

04-26-13 LETTING ITEM 189

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	1
		ILLINOIS	CONTRACT NO. 60V58	

107 + 61 = 168

D-91-017-13



LOCATION OF SECTION INDICATED THIS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

INTERSTATE
ADT 262,600
SPEED LIMIT 55 MPH

IMPROVEMENT LOCATED IN
THE CITY OF CHICAGO

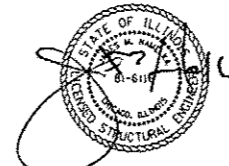
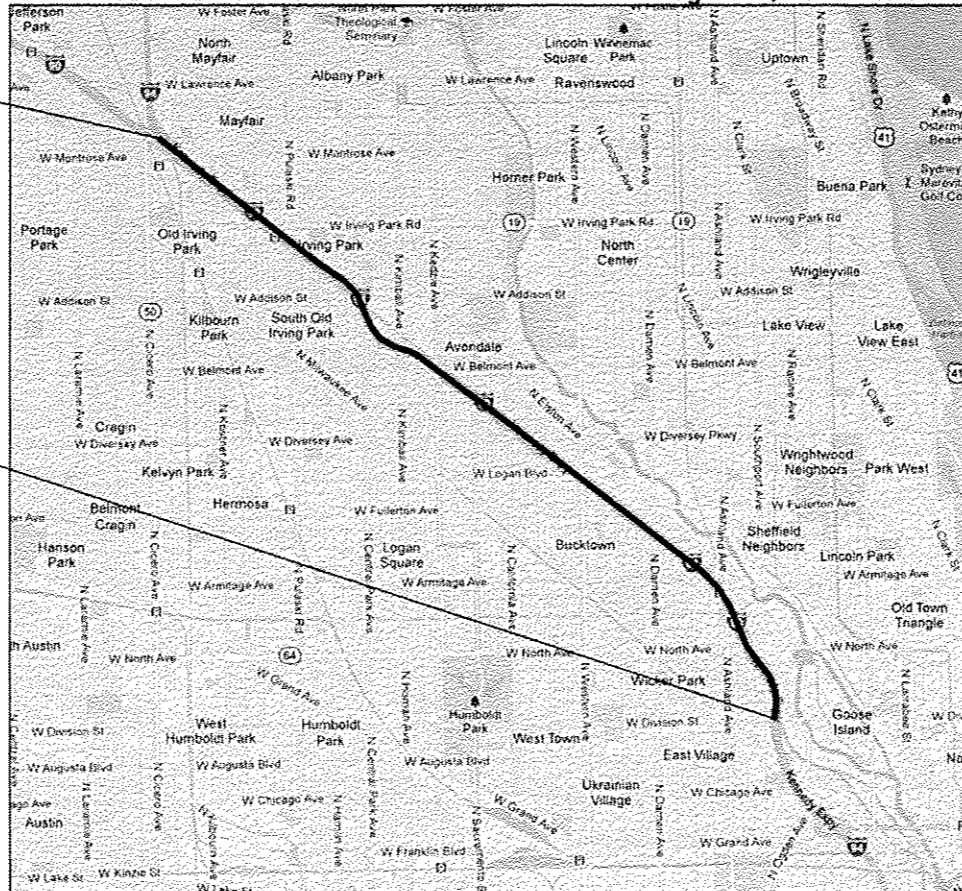
FAI ROUTE 90/94: I-90/94 (KENNEDY EXPRESSWAY)
SECTION 2012-055BR
I-94 (EDENS EXPRESSWAY) TO DIVISION STREET
JOINT REPAIR, PAVEMENT PATCHING,
SUPERSTRUCTURE REPAIRS, & SUBSTRUCTURE REPAIRS
COOK COUNTY

C-91-017-13

BEGIN IMPROVEMENTS
MM. 43 + 28

END IMPROVEMENTS
MM. 49 + 80

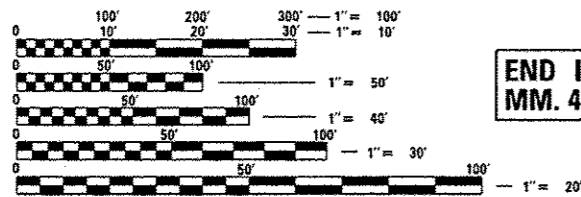
CHICAGO TOWNSHIP Range 13E, 14E - 3rd. PM



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014



COLLINS ENGINEERS, INC.
MATTHEW G. REMPPER
NO. 062-054553
EXPIRES 11-30-2013



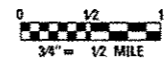
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

PROJECT MANAGER: MR. ISSAM RAYYAN, P.E. (847) 705-4178
PROJECT ENGINEER: MR. ROBERT T. BORO, P.E. (847) 705-4237

CONTRACT NO. 60V58

GROSS LENGTH = 34,425.6 FT. = 6.52 MILE
NET LENGTH = 34,425.6 FT. = 6.52 MILE



COLLINS ENGINEERS
123 N. WACKER DR., SUITE 900
CHICAGO, IL 60606
(312) 704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 20, 2012

John Fatmama
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22, 2013
John D. Baranzoli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2013
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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27-28	SN 016-0115 & 016-0116 Structural Plans
29-34	SN 016-0117 & 016-0118 Structural Plans
35-36	SN 016-0120 & 016-1109 Structural Plans
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* 100	TC08 - Freeway Entrance and Exit Ramp Closure Details
101	TC09 - Freeway Single and Multi-Lane Weave
102	TC11 - Raised Reflective Pavement Markers (Snow Plow Resistant)
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105	TC17 - Traffic Control for Shoulder Closures and Partial Ramp Closures
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* 99A-99KK Added Existing Traffic Surveillance Plans

INDEX OF HIGHWAY STANDARDS

Standard No.	Description
420001-07	Pavement Joints
442001-04	Class A Patching
701400-06	Approach to Lane Closure, Freeway / Expressway
701401-07	Lane Closure, Freeway / Expressway
701411-08	Lane Closure, Multi Lane, Intermittent or Moving Operations, for Speeds >= 45 mph.
701426-05	Lane Closure, Freeway / Expressway, Two Lane Closure
701501-06	Urban Lane Closure, 2L, 2W Undivided
701606-08	Urban Lane Closure, 2W with Mountable Median
701801-05	Sidewalk, Corner, or Crosswalk Closure
701901-07	Traffic Control Devices

GENERAL NOTES

- Before starting any excavation, the Contractor shall contact "J.U.L.I.E." at (800) 892-0123 or 811 for field locations of buried electric, telephone, and gas facilities. 48 hour notification is required.
- The plans do not represent a complete depiction of all utilities that may be impacted by the proposed work. The Contractor shall conduct his or her own investigation to determine the ownership of impacted utilities. The Contractor shall coordinate with the utility owners and may be required to provide temporary support, adjust, relocate or remove utilities that are impacted by the proposed improvement. This work shall be considered incidental to the project.
- The Contractor will not be allowed to set up a yard or field office on State property without written permission from the Department.
- Where 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 areas.
- All damage to existing pavement markings or raised reflective pavement markers outside the patch lane shall be replaced at the Contractors expense.
- Before beginning any work, the Contractor shall retain and record for future reference, all existing pavement marking lines, symbols and letters (and raised reflective markers) in order that these locations can be re-established for striping. Exact locations of all pavement markings and raised reflective pavement markers shall be as directed by the Engineer.
- Drainage adjustment or reconstruction locations will be determined in the field by the Engineer.
- These plans have been prepared from notes received from IDOT Field Maintenance Engineers.
- 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 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 based upon the unit price bid for the work.
- Pavement patching shall not disturb the existing pavement base. Any restoration of Contractor disturbed base shall be done at the Contractor's expense.
- The Contractor shall obtain approval from the District One Bureau Chief of Maintenance for any proposed revisions in the schedule pavement patching locations.
- Do not scale these plans for construction purposes.
- Use #8 epoxy-coated tie bars, conforming to Art. 1006.10 of the Standard Specifications for all the tie bars. Use the "Longitudinal Construction Joint (Tie Bar Grouted In Place) detail shown on Highway Standard 420001 for all longitudinal joints.
- The Contractor shall maintain the existing lighting for the duration of the contract. Cost included in the pay item "Protection and Maintenance Of Existing Underpass Lighting".
- 10 ft (3 m) transitions shall be used to match proposed items of work to existing items in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed item of work specified.
- The Resident Engineer must contact the IDOT Traffic Control Supervisor at (847) 705-4155 at least 72 hours prior to installation of the temporary control devices on 1-90/94.
- The Resident Engineer shall contact the Area Traffic Field Engineer at (847) 705-4412 at least two (2) weeks prior to the placement of permanent pavement markings
- All pavement markings and raised reflectors affected by the pavement patching shall be replaced. Nominal quantities have been included in the contract for this work.

GENERAL NOTES (CONT.)

- The minimum Class A Patch dimensions shall be the length of 4.5 feet and a width that includes half the width of the travel way.
- For work outside the bridge approach pavement, all references in the Highway Standards and Standard Specifications for reinforcement, Dowel Bars and Tie Bars in pavement, shoulders, curb and gutter and median, chair supports for CRC Pavement, shall be Epoxy Coated, unless noted on the plans.

GENERAL NOTES (City of Chicago)

- Before starting any excavation within the City of Chicago, the contractor shall contact "C.U.A.N." (Chicago Utility Alert Network) at (312) 744-7000 for field locations of buried electric, telephone, and gas facilities. 48 hour notification is required.

GENERAL NOTES (CONT.)

- The Contractor shall call for a one-time cable locate of the IDOT District One Electrical Facilities by the IDOT Electrical Maintenance Contractor at (773) 287-7600 prior to start of work.
- There are several surveillance loops potentially in conflict with the proposed patch locations as listed below. As-Built surveillance drawings are included in the contract for Contractor Information Only. The contractor shall perform his/her own investigation and submit to the Engineer for approval prior to ordering materials to determine if the surveillance facilities will be in conflict. The cost of this work shall be incidental to the contract.
- The list of potential surveillance loop conflicts are:
 Monrose Ave (Inbound Direction)
 Addison St. (Inbound Direction)
 Addison St. (Reversible Lanes)
 Kimball St. (Inbound Direction)
 California St. (Outbound Direction)
 Diversey Ave. (Inbound Direction)
 Western Ave. (Reversible Lanes)
 Fullerton Ave. (Inbound Entrance Ramp)
 Armitage Ave. (Inbound Entrance Ramp)
 Division St. (Inbound Direction)
 Division St. (Outbound Direction)
 Division St. (Reversible Lanes)
- All surveillance loops in conflict should be re-cut on the same weekend the patches are poured. Time should be allocated to perform this operation prior to removing the traffic control.
- There is a potential surveillance conflict with the west abutment at Sacramento Blvd. Quantities have been included in the contract to replace the conduit and wire that is in conflict. As-Built drawings of the junction boxes and location of the conduit/wire conflict are included for Contractor Information.

COLLINS ENGINEERS 1327 N. Waukegan Dr. Suite 100 Chicago, IL 60642 Tel: (773) 751-1100 Fax: (773) 751-1100 www.collinseng.com	USER NAME :	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE :	DRAWN - AMS	REVISED -			90/94	2012-0558R	COOK	107	2
	PLOT DATE :	CHECKED - JMH	REVISED -			CONTRACT NO. 60V58				
	DATE - DECEMBER 2012	REVISED -	ILLINOIS FED. AID PROJECT							

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 100% STATE																				
				ROADWAY	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE		
				0004	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	
				URBAN	016-2574	016-0111 016-0112	016-0113 016-0114	016-0115 016-0116	016-0117 016-0118	016-0120 016-1109	016-0121 016-0122	016-0123 016-1071	016-0124 016-1076 016-1077	016-0125 016-1073 016-1078	016-0127	016-2654	016-0128	016-0129	016-0130	016-0131	016-0132	016-0133	016-0134	016-0135
20700220	POROUS GRANULAR EMBANKMENT	CU YD	30			10						20												
44200549	CLASS A PATCHES, TYPE I, 10 INCH	SQ YD	23	23																				
44200553	CLASS A PATCHES, TYPE II, 10 INCH	SQ YD	236	236																				
44200557	CLASS A PATCHES, TYPE III, 10 INCH	SQ YD	100	100																				
44200559	CLASS A PATCHES, TYPE IV, 10 INCH	SQ YD	290	290																				
44213000	PATCHING REINFORCEMENT	SQ YD	1206	1206																				
44213200	SAW CUTS	FOOT	7821	7821																				
44213202	TIE BARS 1"	EACH	1124	1124																				
50102400	CONCRETE REMOVAL	CU YD	0.5		0.1																		0.1	0.3
50104650	SLOPE WALL REMOVAL	SQ YD	184			10							174											
51100100	SLOPE WALL 4 INCH	SQ YD	184			10							174											
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6																				
67100100	MOBILIZATION	L SUM	1	1																				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1																				1	

				CONSTRUCTION TYPE CODE 100% STATE																				
CODE		UNIT	TOTAL	ROADWAY 0004	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	BRIDGE 0014	
NO.	ITEM		QUANTITY	URBAN	016-2574	016-0111 016-0112	016-0113 016-0114	016-0115 016-0116	016-0117 016-0118	016-0120 016-1109	016-0121 016-0122	016-0123 016-1071	016-0124 016-1074 016-1077	016-0125 016-1073 016-1078	016-0127	016-2654	016-0128	016-0129	016-0130	016-0131	016-0132	016-0133	016-0134	016-0135
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	18	18																				
X8210305	PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING	I. SUM	1			0.25			0.25			0.25										0.25		
Z0001905	STRUCTURAL STEEL REPAIR	POUND	3310																			3310		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	17191			130			231			205				141						16484		
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	278																			278		
Z0021906	SILICONE JOINT SEALER, 1.5"	FOOT	229.0																			229.0		
Z0021907	SILICONE JOINT SEALER, 1.75"	FOOT	485							136.5								42.5				142	164	
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	1618.0			102.0	72.0		84.0		72.0	78.0	12.0	18.0	30.0			30.0	24.0		12.0	48.0	684.0	
Z0021912	SILICONE JOINT SEALER, 2.5"	FOOT	264		6.0									30.0		78.0	48.0			42.0	60.0			
Z0021918	SILICONE JOINT SEALER, 4"	FOOT	222.0					24.0							78.0			72.0				48.0		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	208			52			52			52										52		
Z0041895	POLYMER CONCRETE	CU FT	312.3	135.0	1.9	8.5	6.0	2.0	7.0	7.0	6.0	6.5	1.6	4.9	9.0	6.5	6.5	8.0	3.0	4.5	9.0	61.0	6.5	12.5
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	398						5													393		
© Z0076004	TRAINEES-TRAINING PROGRAM GRADUATE	Hour	1000	1000																				

Z0021902 SILICONE JOINT SEALER FOOT 42 42

Z0021910 SILICONE JOINT SEALER FOOT 222 24 78 72 48

X0327596 PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR I. SUM 1 1

© 0042



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DRAWN - RG	REVISED -
CHECKED - MR	REVISED -
DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

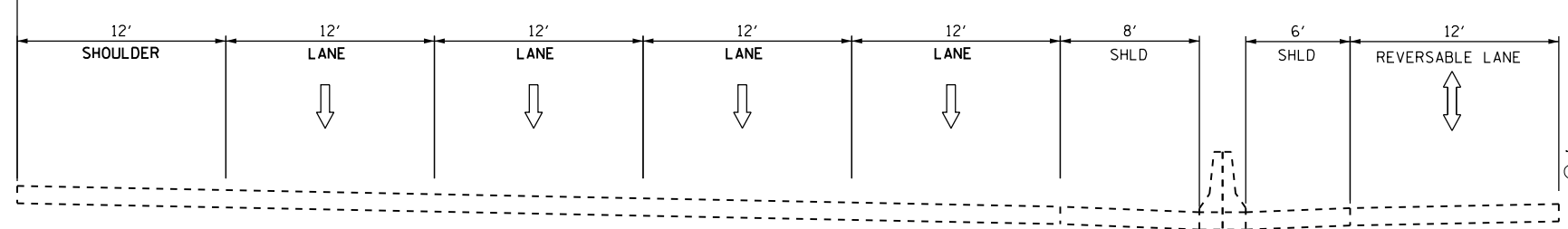
SUMMARY OF QUANTITIES

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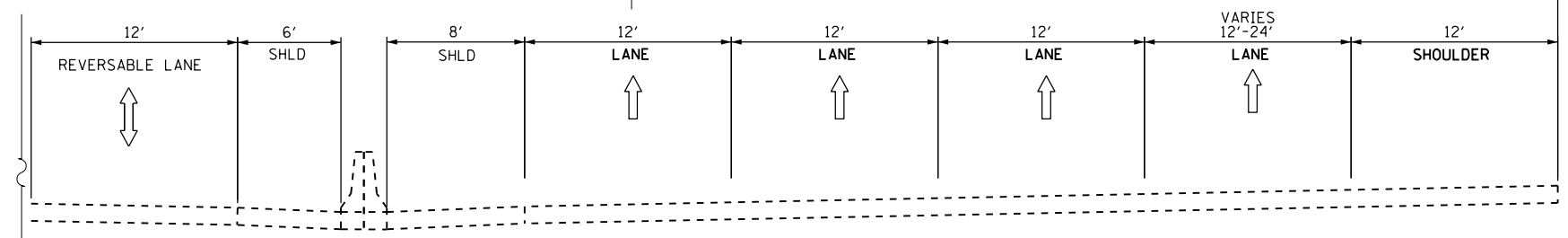
F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 5
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

Rev.

SB I-90/94

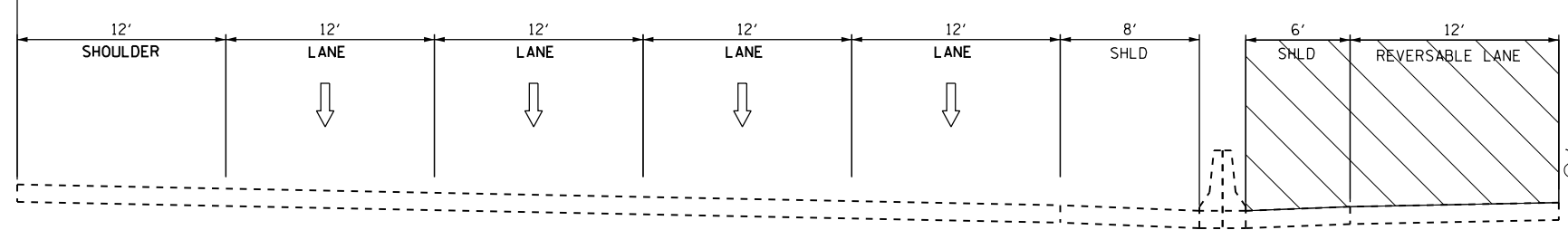


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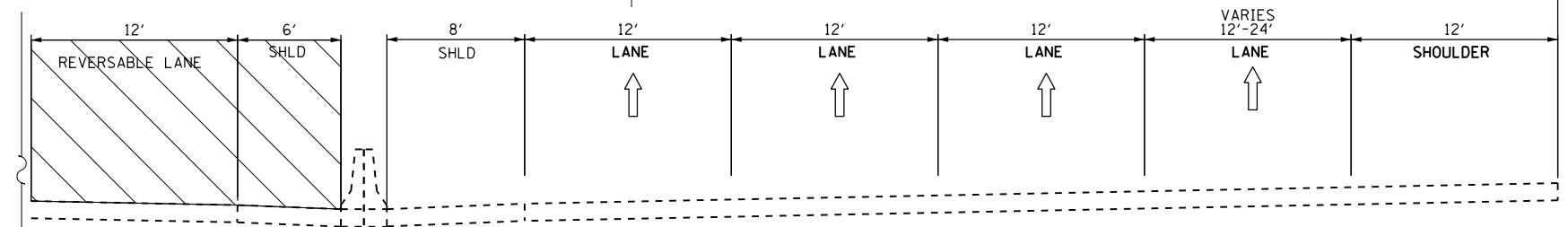


EXISTING ROADWAY
I-90/ 94 (KENNEDY EXPRESSWAY)

SB I-90/94



NB I-90/94



STAGE I
FULL WEEKEND CLOSURES

 INDICATES WORK AREA

COLLINS ENGINEERS
123 N. Wacker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9300
www.collinseng.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 154-888933

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

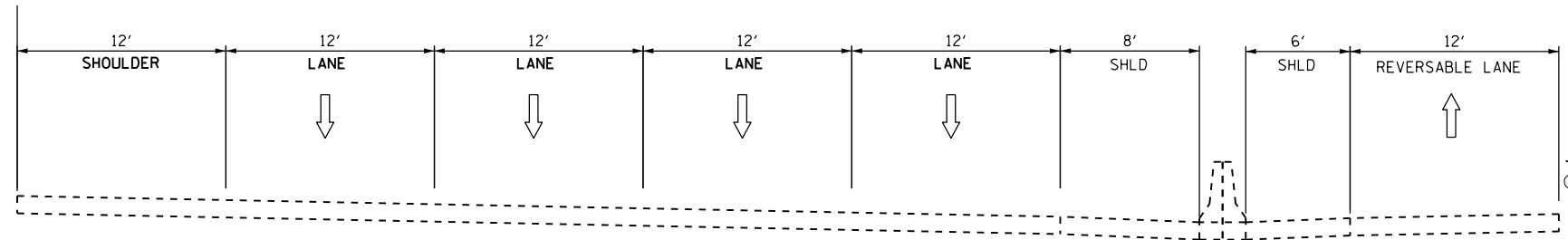
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
I-90/94 TYPICAL SECTIONS**

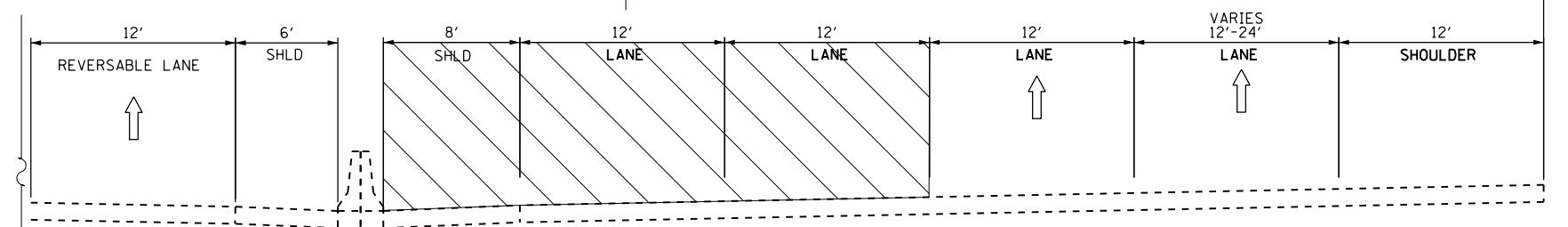
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F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 5A
CONTRACT NO. 60V58				ILLINOIS FED. AID PROJECT

SB I-90/94

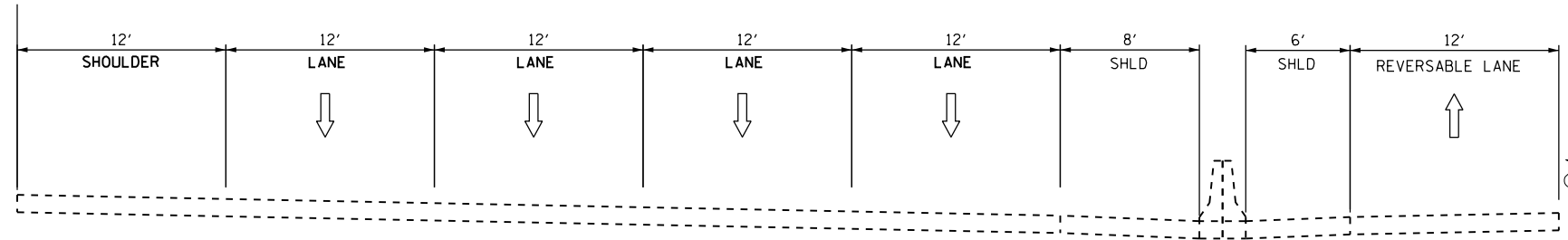


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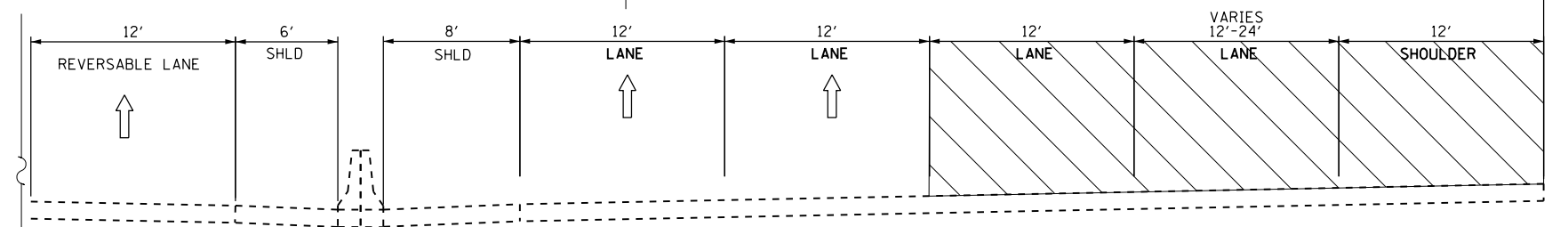


STAGE II
FULL WEEKEND CLOSURES

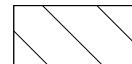
SB I-90/94



NB I-90/94



STAGE III
FULL WEEKEND CLOSURES

 INDICATES WORK AREA

COLLINS ENGINEERS
123 N. Rocker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9300
www.collinseng.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-000993

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DATE - DECEMBER 2012	REVISED -	

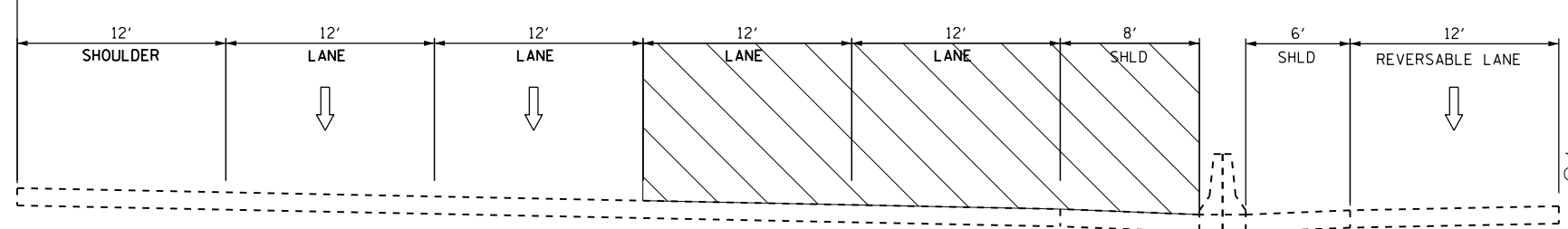
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING AND TRAFFIC CONTROL
I-90/94 TYPICAL SECTIONS

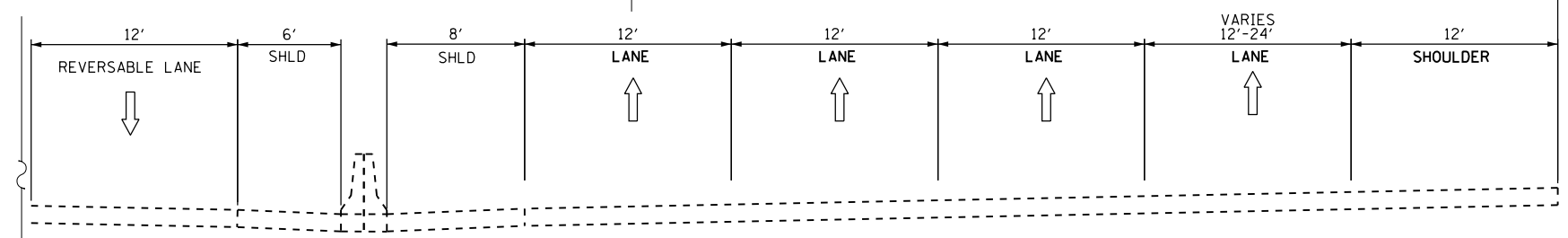
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F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 5B
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

SB I-90/94

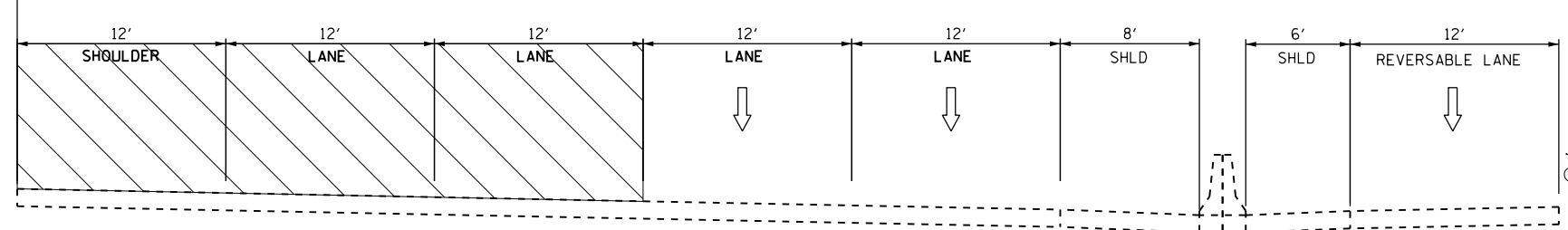


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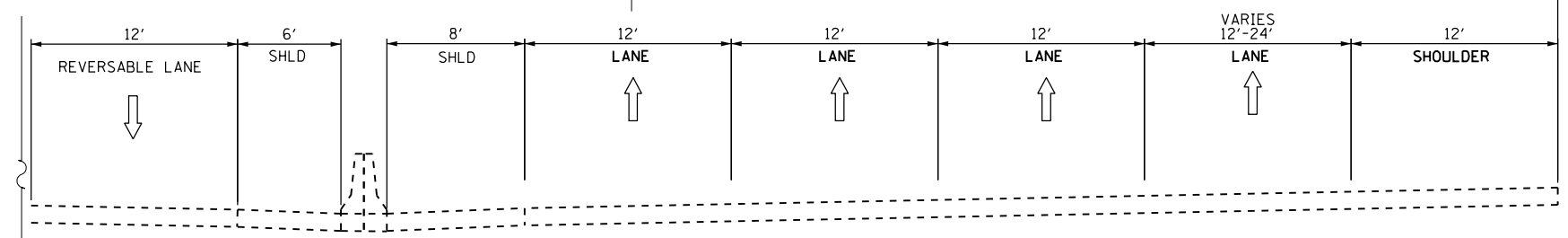


STAGE IV
PP3 CONCRETE - FULL WEEKEND CLOSURES

SB I-90/94



NB I-90/94



STAGE V
WEEKEND CLOSURES

 INDICATES WORK AREA

COLLINS ENGINEERS
123 N. Wacker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9300
www.collinseng.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-000993

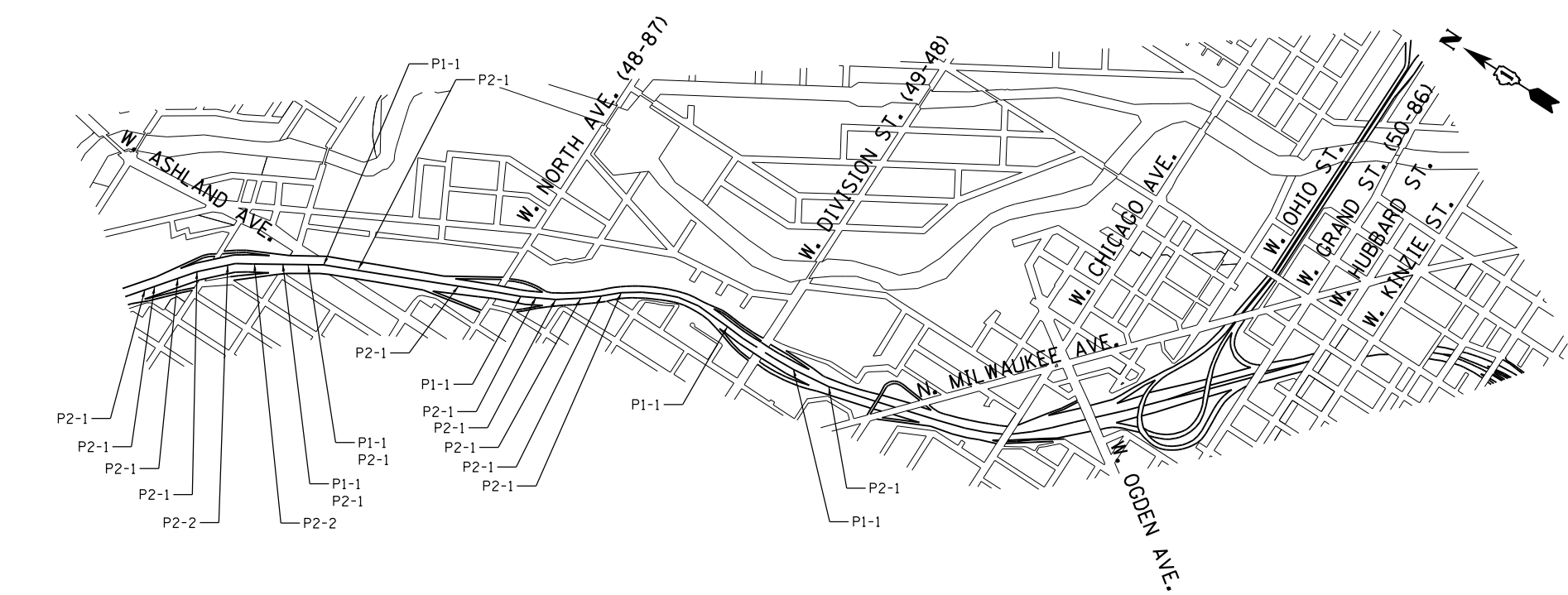
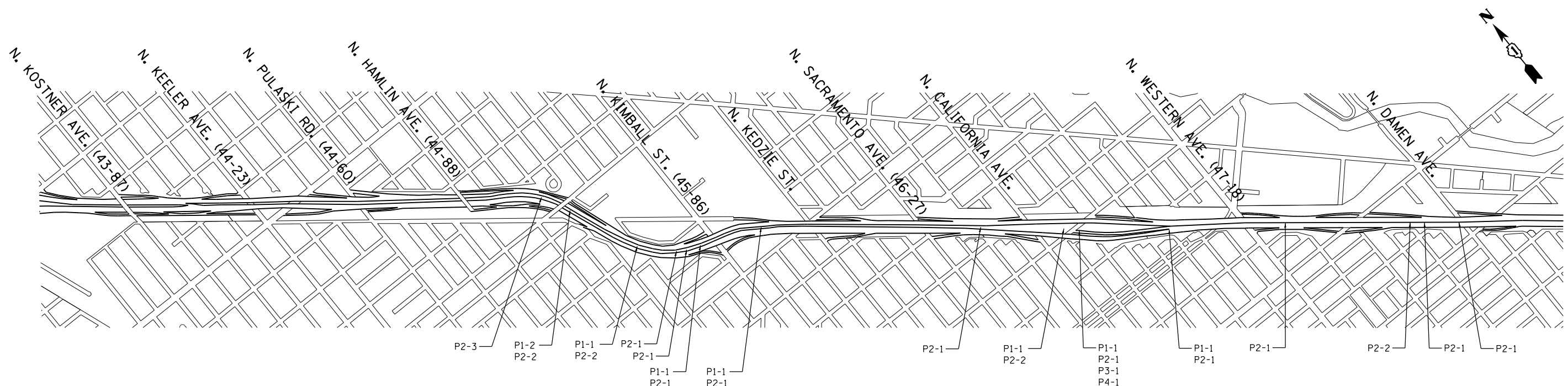
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DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING AND TRAFFIC CONTROL
I-90/94 TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 5C
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



SUGGESTED STAGING NOTES:

STAGE I (REVERSIBLE LANES)

TRAFFIC

1. THE REVERSIBLE LANES WILL BE CLOSED. THIS WORK SHALL BE PERFORMED BY IDOT.
2. MAINTAIN NORMAL TRAFFIC PATTERNS ON NB AND SB I-90/94.

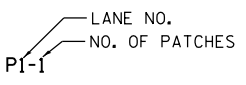
CONSTRUCTION

1. CONSTRUCT ALL PAVEMENT PATCHES IN THE REVERSIBLE LANES.

SUGGESTED LANE CLOSURES:

REVERSIBLES - DIVIDE UP PATCHES AND CONSTRUCT OVER 2 WEEKENDS.

LEGEND:



COLLINS ENGINEERS
 123 N. Wacker Dr.
 Suite 900
 Chicago, IL 60606
 Tel: (312) 704-9300
 Fax: (312) 704-9300
 www.collinseng.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-088993

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	
PLOT SCALE =		
PLOT DATE		

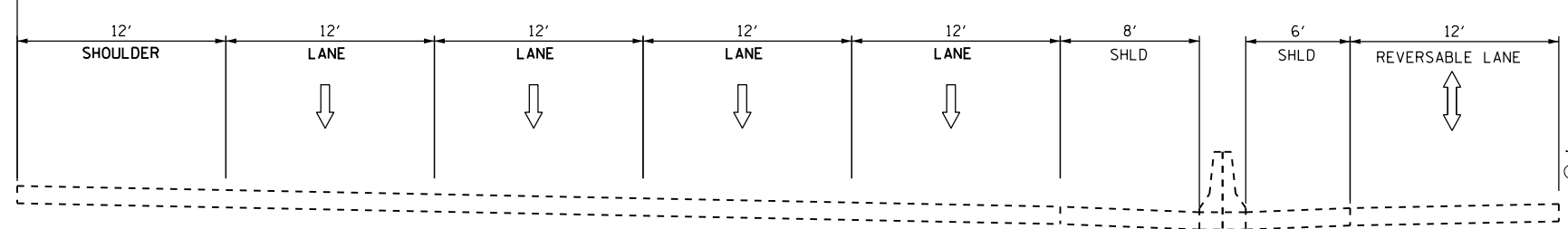
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN
 REVERSIBLE LANES**

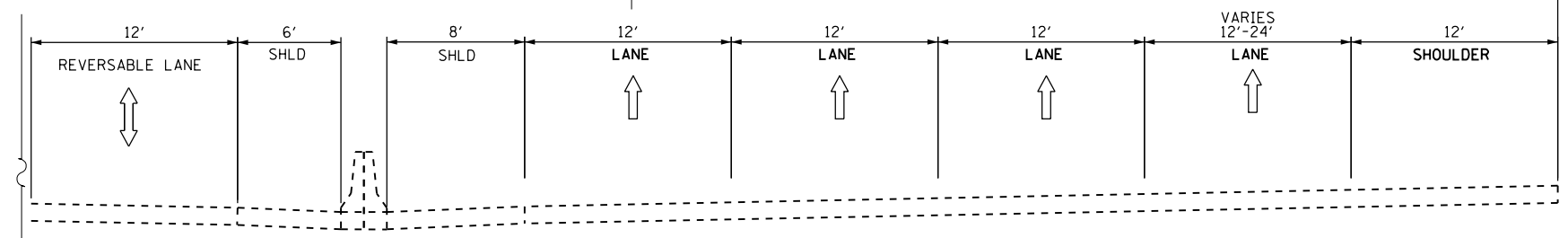
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

SB I-90/94

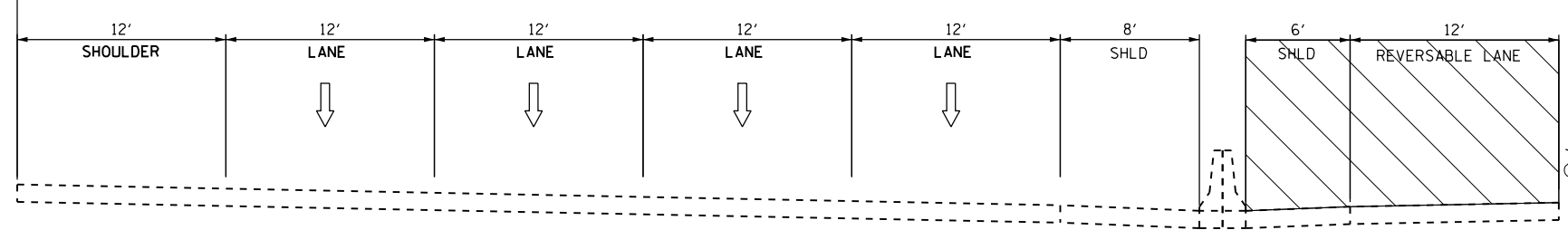


NB I-90/94

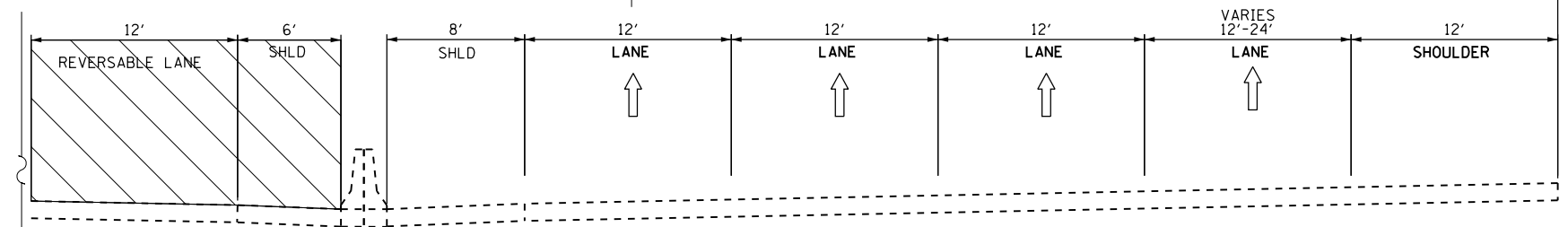


EXISTING ROADWAY
I-90/ 94 (KENNEDY EXPRESSWAY)

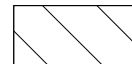
SB I-90/94



NB I-90/94



STAGE I
FULL WEEKEND CLOSURES

 INDICATES WORK AREA AND LANE CLOSURES

COLLINS ENGINEERS
123 N. Wacker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9300
www.collinseng.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-000993

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

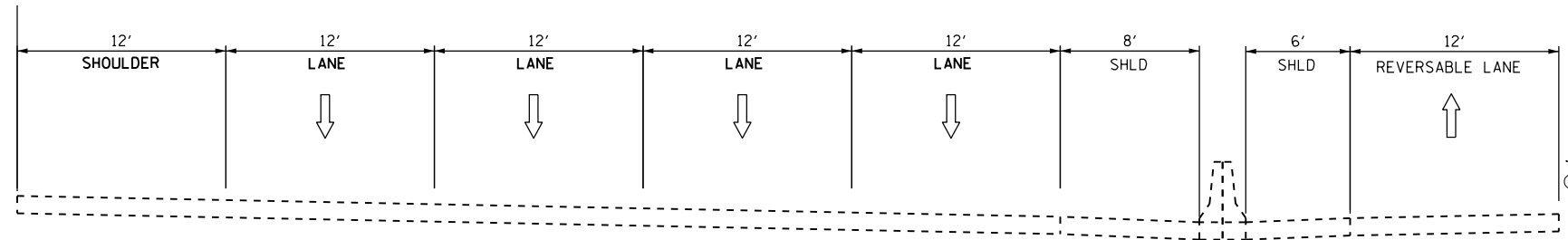
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
I-90/94 TYPICAL SECTIONS**

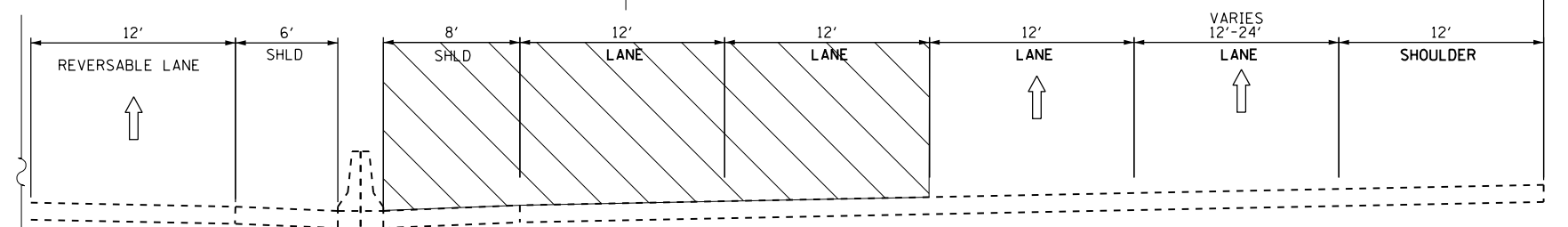
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 6A
CONTRACT NO. 60V58				
ILLINOIS FED. AID PROJECT				

SB I-90/94

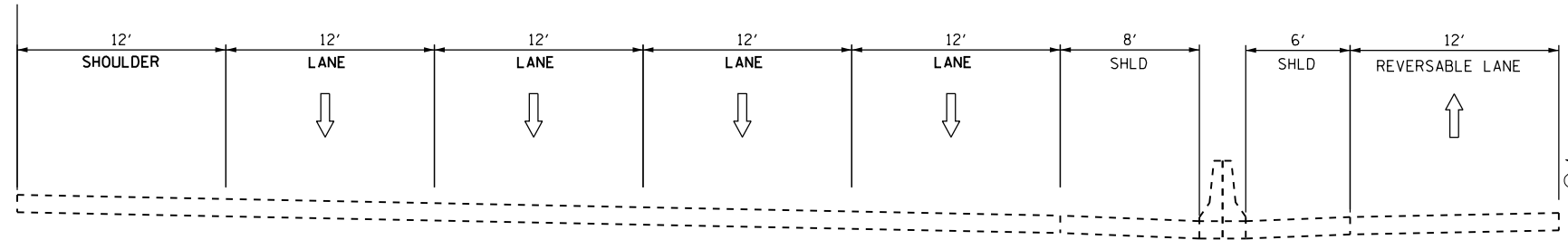


NB I-90/94

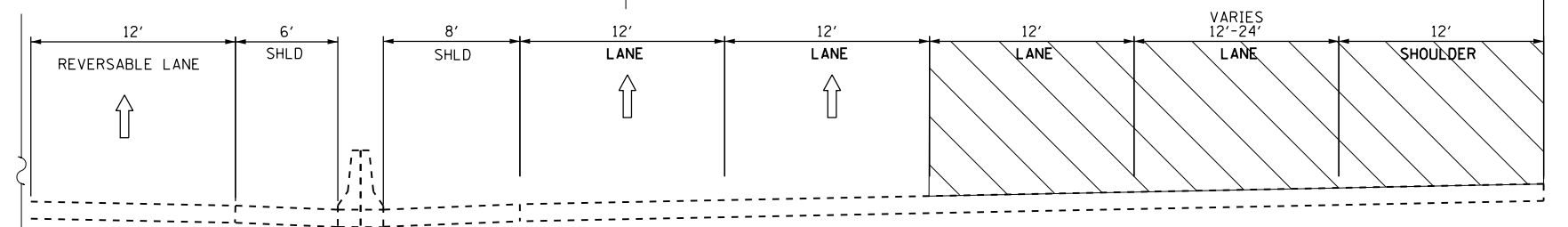


STAGE II
FULL WEEKEND CLOSURES

SB I-90/94



NB I-90/94



STAGE III
FULL WEEKEND CLOSURES

 INDICATES WORK AREA AND LANE CLOSURES

COLLINS ENGINEERS
123 N. Rocker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9300
www.collinseng.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-000993

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISOR -	
CHECKED - MR	REVISOR -	
DATE - DECEMBER 2012	REVISOR -	

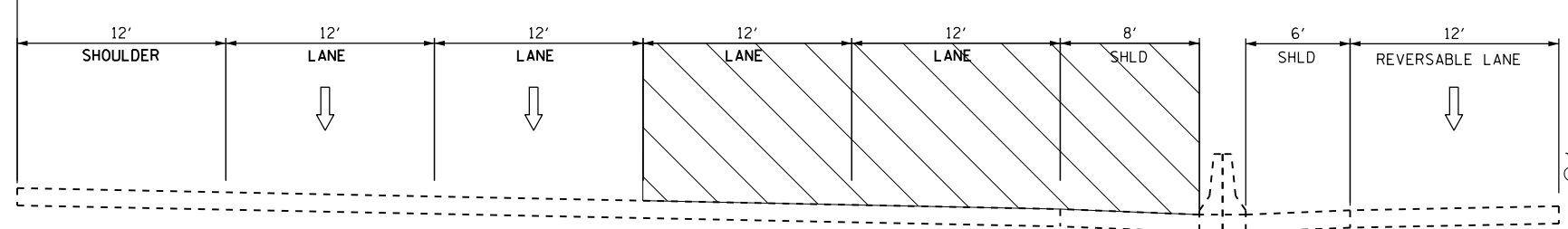
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING AND TRAFFIC CONTROL
I-90/94 TYPICAL SECTIONS

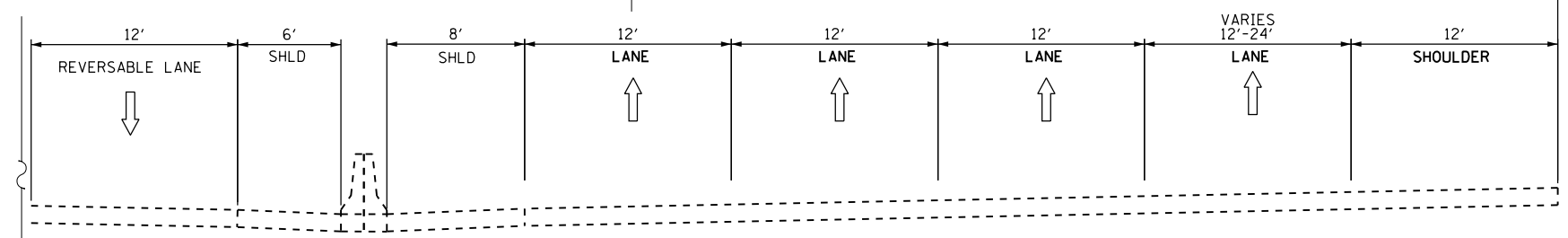
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 6B
				CONTRACT NO. 60V58
ILLINOIS FED. AID PROJECT				

SB I-90/94

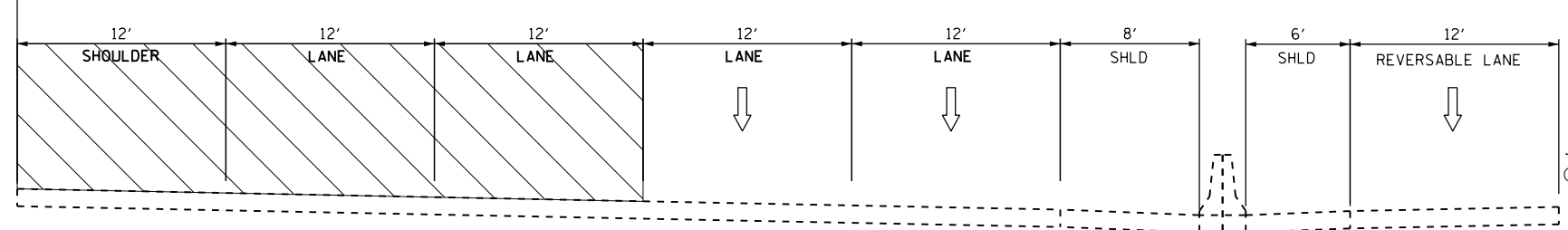


NB I-90/94

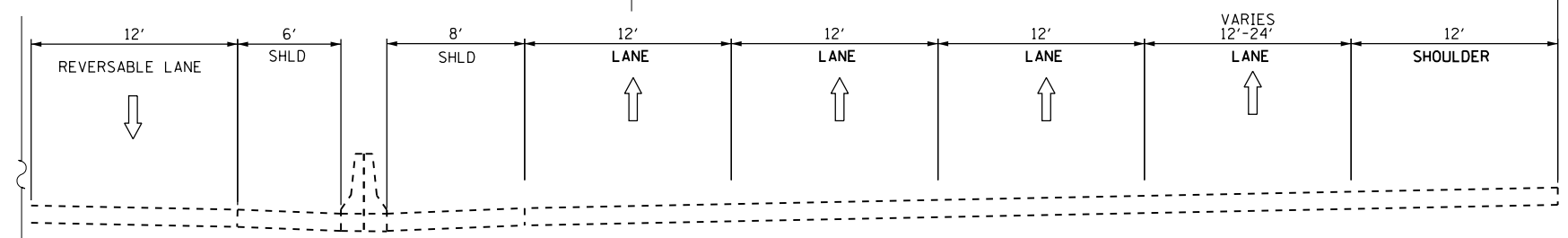


STAGE IV
PP3 CONCRETE - FULL WEEKEND CLOSURES

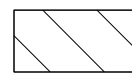
SB I-90/94



NB I-90/94



STAGE V
WEEKEND CLOSURES

 INDICATES WORK AREA AND LANE CLOSURES

COLLINS ENGINEERS
123 N. Wacker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9300
www.collinseng.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-000993

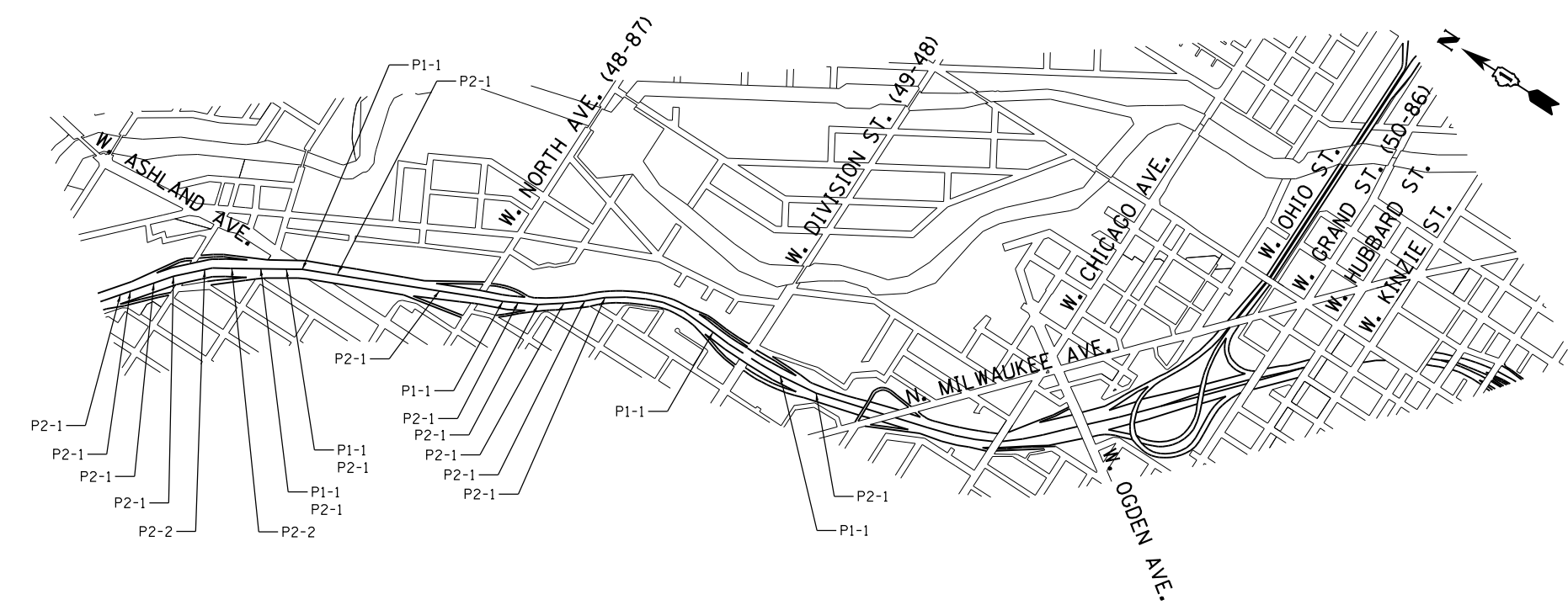
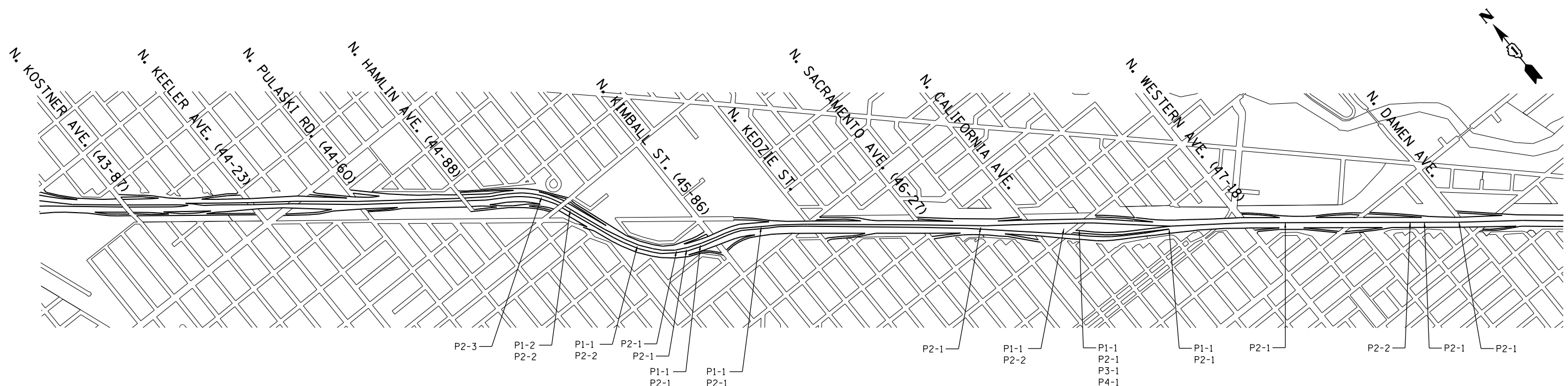
USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING AND TRAFFIC CONTROL
I-90/94 TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 6C
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



SUGGESTED STAGING NOTES:

STAGE I (REVERSIBLE LANES)

TRAFFIC

1. THE REVERSIBLE LANES WILL BE CLOSED. THIS WORK SHALL BE COORDINATED WITH IDOT COMMUNICATIONS CENTER.
2. MAINTAIN NORMAL TRAFFIC PATTERNS ON NB AND SB I-90/94.

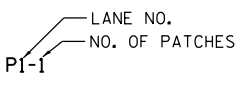
CONSTRUCTION

1. CONSTRUCT ALL PAVEMENT PATCHES IN THE REVERSIBLE LANES.

SUGGESTED LANE CLOSURES:

REVERSIBLES - DIVIDE UP PATCHES AND CONSTRUCT OVER 2 WEEKENDS.

LEGEND:



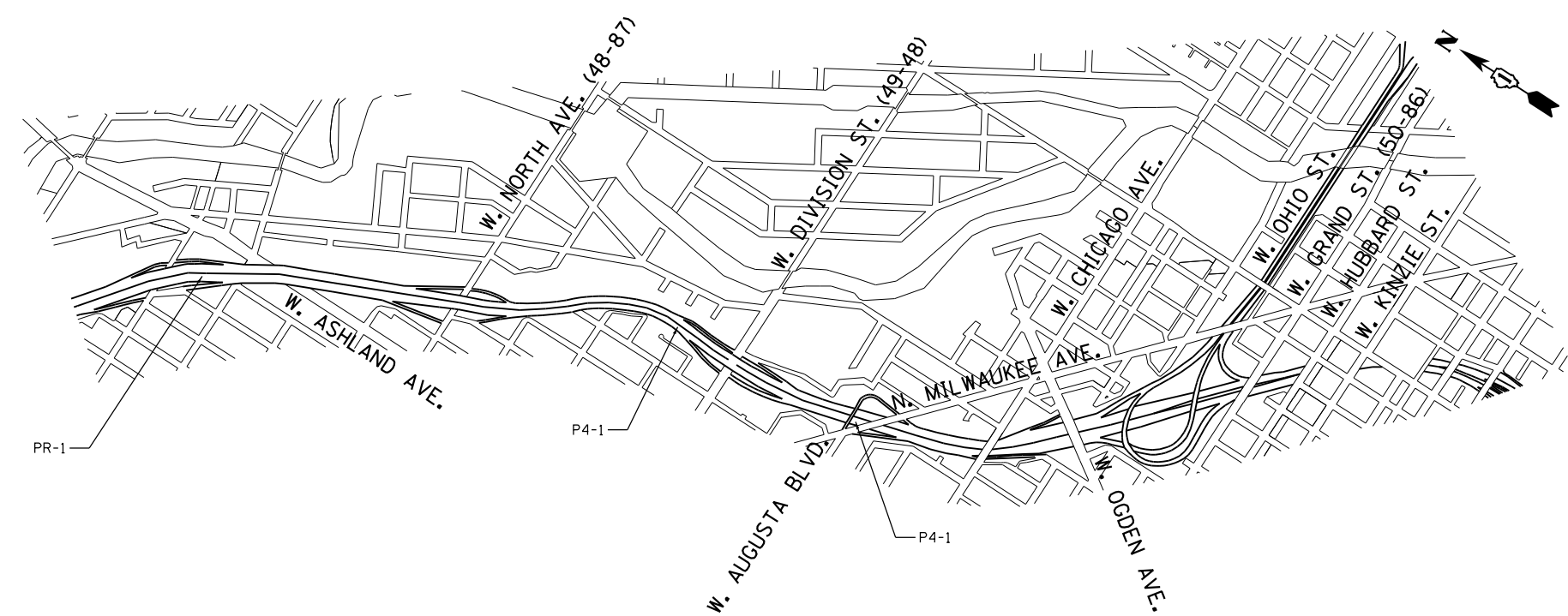
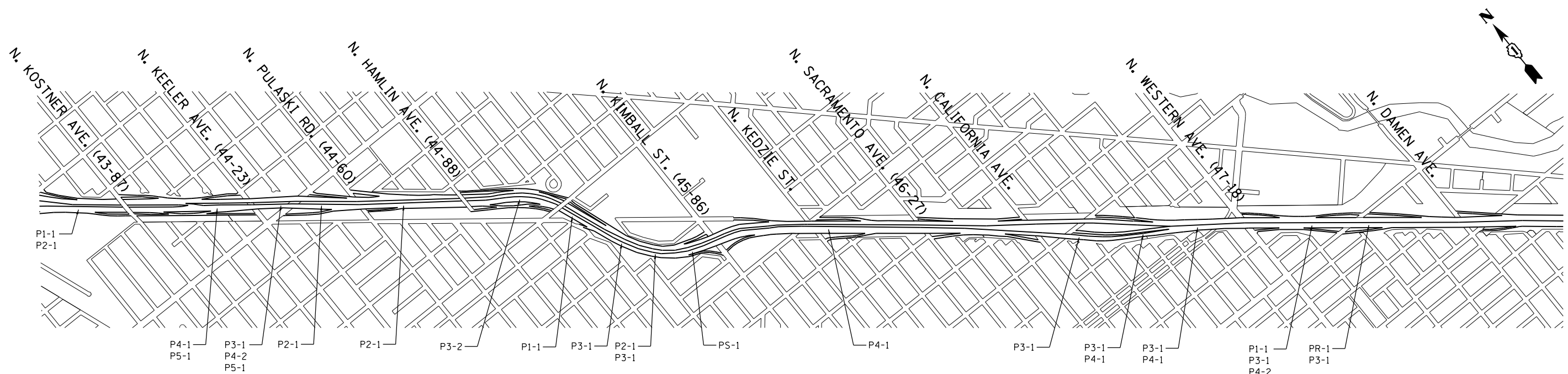
USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
REVERSIBLE LANES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



STAGE IV (SB LANES 1 AND 2)
 INSTALL TEMPORARY SIGNING AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE IV TRAFFIC CONFIGURATION.

ALL TRAVEL LANES, TAPERS AND LANE SHIFTS WITHIN THE WORK ZONE SHALL MAINTAIN A MINIMUM WIDTH OF 11 FEET.

- TRAFFIC (SB)
1. THE REVERSIBLE LANES SHALL BE IN THE SB DIRECTION. THIS WORK SHALL BE PERFORMED BY IDOT.
 2. CLOSE INSIDE LANE (LANE 1) ALONG SB I-94 (EDENS EXPRESSWAY) NORTH OF MONTROSE AVE.
 3. CLOSE OUTSIDE LANES (LANES 2 AND 3) ALONG EB I-90 (KENNEDY EXPRESSWAY) NORTH OF MONTROSE AVE.

CONSTRUCTION
 CONSTRUCT ALL PAVEMENT PATCHES IN LANE 1 AND LANE 2 (SB DIRECTION)

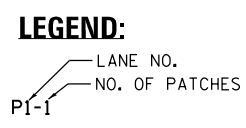
STAGE V (SB LANES 3, 4, AND 5)
 INSTALL TEMPORARY SIGNING AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE IV TRAFFIC CONFIGURATION.

ALL TRAVEL LANES, TAPERS AND LANE SHIFTS WITHIN THE WORK ZONE SHALL MAINTAIN A MINIMUM WIDTH OF 11 FEET.

- TRAFFIC (SB)
1. THE REVERSIBLE LANES SHALL BE IN THE SB DIRECTION. THIS WORK SHALL BE PERFORMED BY IDOT.
 2. CLOSE MONTROSE AVENUE ENTRANCE RAMP, PER DISTRICT DETAIL TC-08
 3. CLOSE OUTSIDE LANE (LANE 3) ALONG SB I-94 (EDENS EXPRESSWAY) NORTH OF MONTROSE AVE.
 4. CLOSE INSIDE LANES (LANES 1 AND 2) ALONG EB I-90 (KENNEDY EXPRESSWAY) NORTH OF MONTROSE AVE.
 5. CLOSE LANE 4 PER STANDARD 701401.

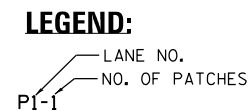
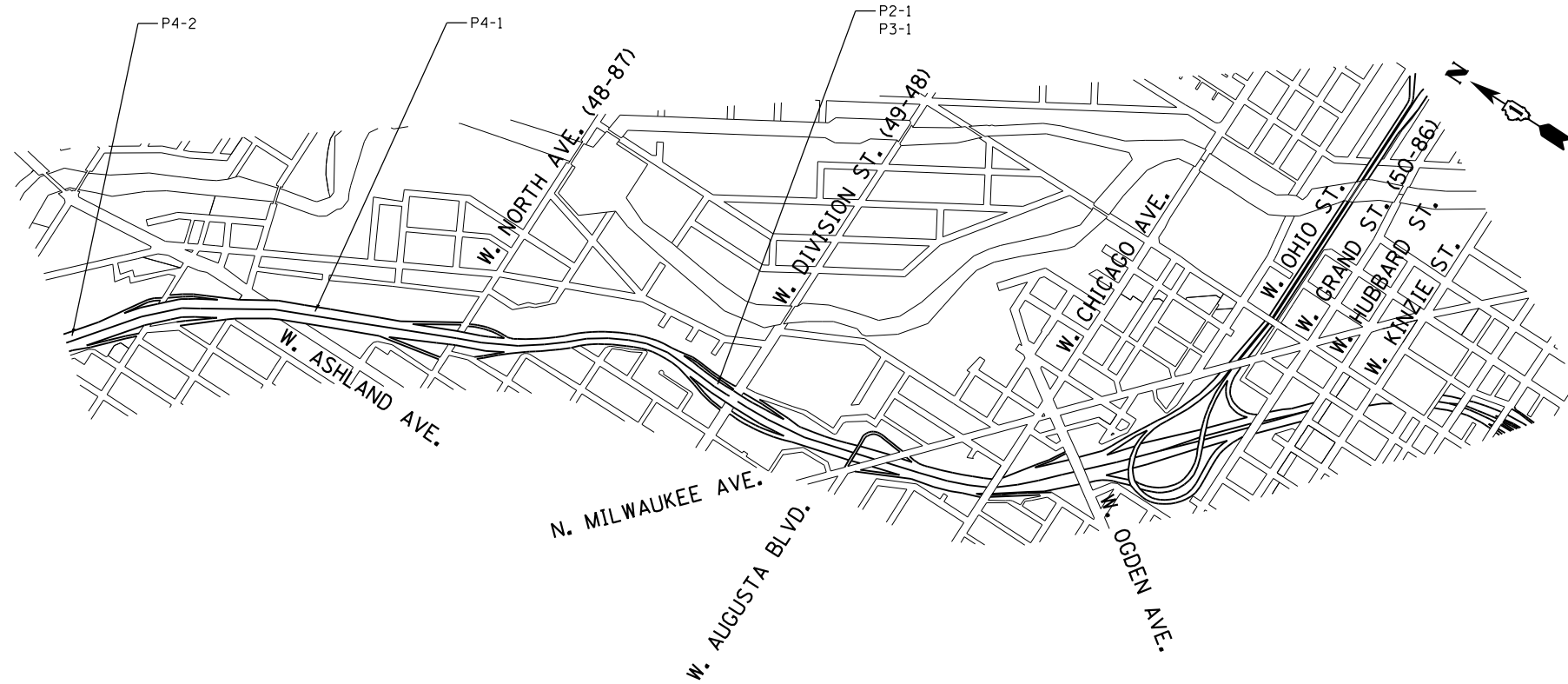
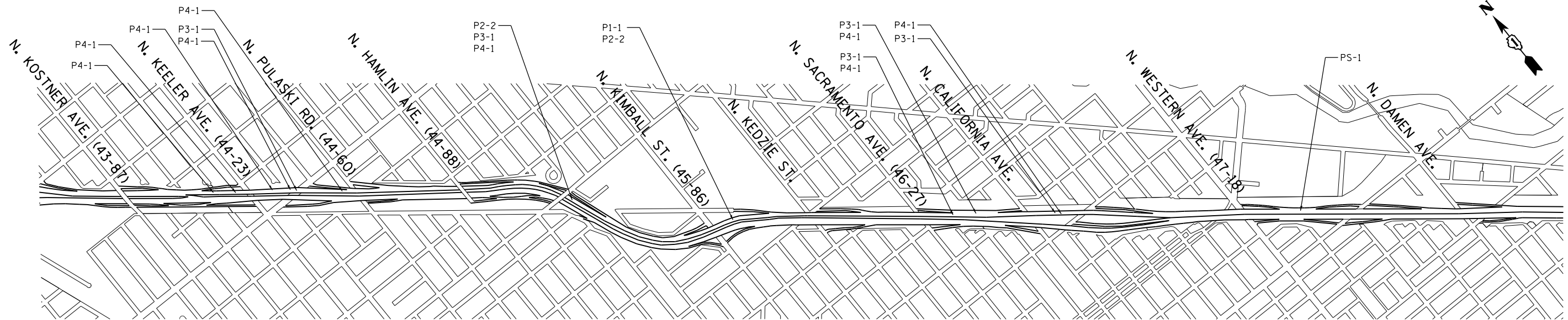
- TRAFFIC (RAMPS)
1. TRAFFIC ON RAMPS WHERE PATCHES ARE BEING CONSTRUCTED SHALL BE PARTIALLY CLOSED, PER DISTRICT DETAIL TC-17, ALLOWING A MINIMUM 12' TRAVEL LANE. NO RAMPS SHALL BE CLOSED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

CONSTRUCTION
 CONSTRUCT ALL PAVEMENT PATCHES IN LANES 3, 4, 5 AND THE RAMPS (SB DIRECTION)



SUGGESTED STAGING NOTES:
 SAWCUTTING TO BE DONE ON WEEKNIGHTS PER THE HOURS GIVEN IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC". PATCHING SHALL BE DONE PER FULL WEEKEND CLOSURE HOURS.
 CURING OF LANE 2 AND LANE 3 PATCHES MAY USE CENTER LANE CLOSURE, PER DISTRICT DETAIL (TC-25) AND FULL WEEKEND CLOSURE HOURS.
 NO TWO ADJACENT RAMPS MAY BE CLOSED AT THE SAME TIME.
 MAXIMUM LENGTH OF ANY CLOSURE IS 4 MILES. MINIMUM GAP BETWEEN CONSECUTIVE CLOSURES IS 4 MILES.

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
PLOT SCALE =	CHECKED - MR	REVISED -
PLOT DATE	DATE - DECEMBER 2012	REVISED -



SUGGESTED STAGING NOTES:

SAWCUTTING TO BE DONE ON WEEKNIGHTS PER THE HOURS GIVEN IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC". PATCHING SHALL BE DONE PER FULL WEEKEND CLOSURE HOURS.

NO TWO ADJACENT RAMPS MAY BE CLOSED AT THE SAME TIME.

MAXIMUM LENGTH OF ANY CLOSURE IS 4 MILES.

STAGE II (NB LANES 1 AND 2)

INSTALL TEMPORARY SIGNING AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE II TRAFFIC CONFIGURATION AS SHOWN ON THE TYPICAL SECTIONS AND INBOUND AND OUTBOUND APPROACH DETAILS

ALL TRAVEL LANES, TAPERS AND LANE SHIFTS WITHIN THE WORK ZONE SHALL MAINTAIN A MINIMUM WIDTH OF 11 FEET.

TRAFFIC (NB)

1. THE REVERSIBLE LANES SHALL BE IN THE NB DIRECTION. THIS WORK SHALL BE COORDINATED WITH IDOT COMMUNICATIONS CENTER.
2. CLOSE INSIDE TWO (2) LANES OF I-90/94 ALONG NB I-90/94 IN ACCORDANCE WITH STD. 701400 AND 701446 AND AS SHOWN ON THE PLANS.
3. RESTORE NORMAL TRAFFIC PATTERNS NORTH OF FINAL PATCH (NORTH OF KIMBALL STREET).

CONSTRUCTION

1. CONSTRUCT ALL PAVEMENT PATCHES IN LANE 1 AND LANE 2 (NB DIRECTION)

STAGE III (NB LANES 3 AND 4)

INSTALL TEMPORARY SIGNING AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE III TRAFFIC CONFIGURATION.

ALL TRAVEL LANES, TAPERS AND LANE SHIFTS WITHIN THE WORK ZONE SHALL MAINTAIN A MINIMUM WIDTH OF 11 FEET.

TRAFFIC (NB)

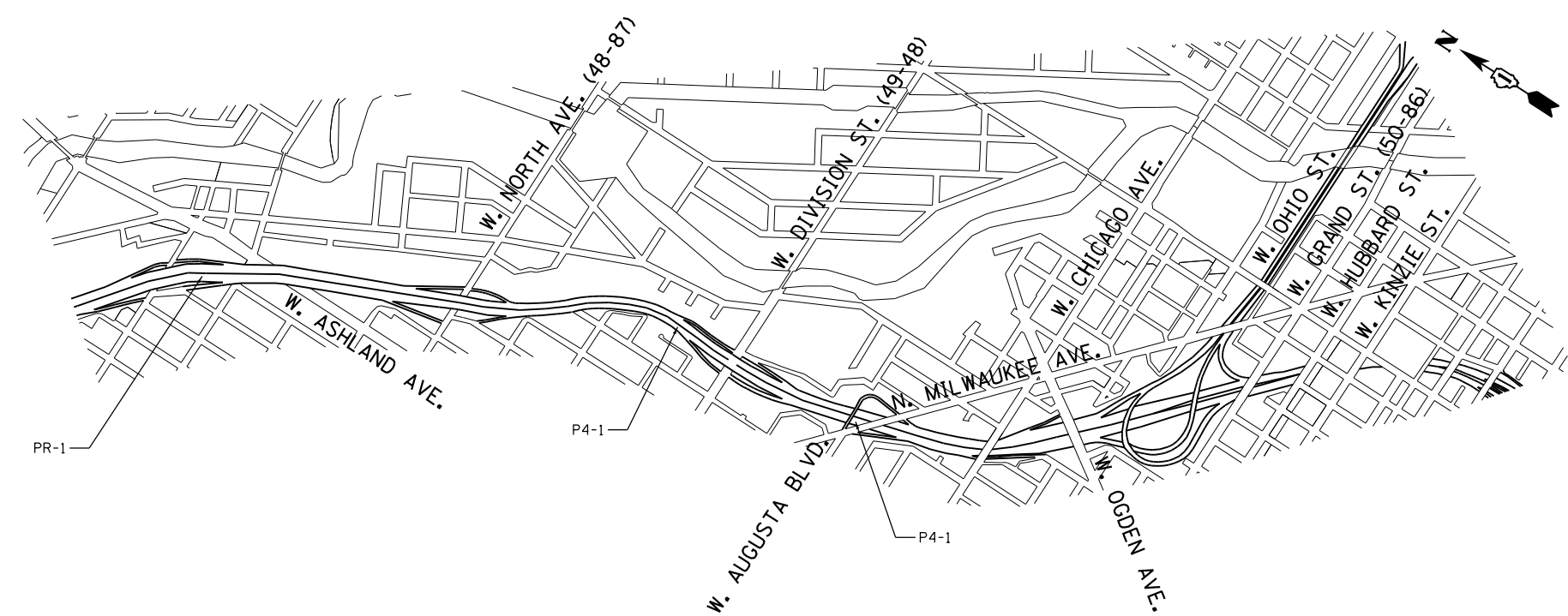
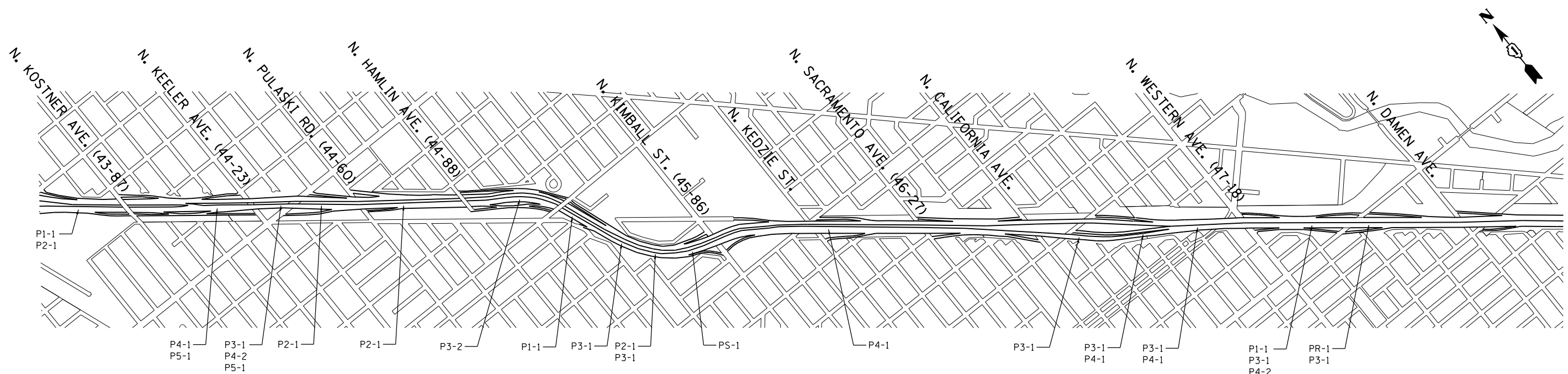
1. THE REVERSIBLE LANES SHALL BE IN THE NB DIRECTION. THIS WORK SHALL BE COORDINATED WITH IDOT COMMUNICATIONS CENTER.
2. CLOSE OUTSIDE TWO (2) LANES OF I-90/94 ALONG NB I-90/94 IN ACCORDANCE WITH STD. 701400 AND 701446 AND AS SHOWN IN THE PLANS.
3. ENTRANCE AND EXIT RAMP TERMINALS TO BE STAGED PER HIGHWAY STD. 701411.
4. RESTORE NORMAL TRAFFIC PATTERNS NORTH OF FINAL PATCH (NORTH OF KEELER AVENUE).

CONSTRUCTION

1. CONSTRUCT ALL PAVEMENT PATCHES IN LANE 3 AND LANE 4 (NB DIRECTION)

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISÉ -	
CHECKED - MR	REVISÉ -	
DATE - DECEMBER 2012	REVISÉ -	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	8A
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



STAGE IV (SB LANES 1 AND 2)

INSTALL TEMPORARY SIGNING AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE IV TRAFFIC CONFIGURATION.

ALL TRAVEL LANES, TAPERS AND LANE SHIFTS WITHIN THE WORK ZONE SHALL MAINTAIN A MINIMUM WIDTH OF 11 FEET.

TRAFFIC (SB)

1. THE REVERSIBLE LANES SHALL BE IN THE SB DIRECTION. THIS WORK SHALL BE COORDINATED WITH IDOT COMMUNICATIONS CENTER.
2. CLOSE INSIDE LANE (LANE 1) ALONG SB I-94 (EDENS EXPRESSWAY) NORTH OF WILSON AVE. AND AS SHOWN ON THE PLANS
3. CLOSE INSIDE LANE ALONG EB I-90 (KENNEDY EXPRESSWAY) WEST OF CICERO AVE. AND AS SHOWN ON THE PLANS.

CONSTRUCTION

CONSTRUCT ALL PAVEMENT PATCHES IN LANE 1 AND LANE 2 (SB DIRECTION)

STAGE V (SB LANES 3, 4, AND 5)

INSTALL TEMPORARY SIGNING AND TRAFFIC CONTROL DEVICES NECESSARY FOR STAGE V TRAFFIC CONFIGURATION.

ALL TRAVEL LANES, TAPERS AND LANE SHIFTS WITHIN THE WORK ZONE SHALL MAINTAIN A MINIMUM WIDTH OF 11 FEET.

TRAFFIC (SB)

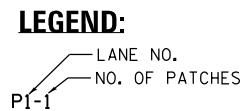
1. THE REVERSIBLE LANES SHALL BE IN THE SB DIRECTION. THIS WORK SHALL BE COORDINATED WITH IDOT COMMUNICATIONS CENTER.
2. CLOSE WILSON AVENUE ENTRANCE RAMP, PER DISTRICT DETAIL TC-08
3. CLOSE OUTSIDE TWO (2) LANES ALONG SB I-94 (EDENS EXPRESSWAY) NORTH OF WILSON AVE. CLOSURE OF THE SECOND LANE SHALL OCCUR TO THE SOUTH OF THE EXIT TO THE REVERSIBLE LANES.
4. CLOSE OUTSIDE LANE ALONG EB I-90 (KENNEDY EXPRESSWAY) WEST OF CICERO AVE. AND AS SHOWN ON THE PLANS.
5. CLOSE LANE 3 SOUTH OF IRVING PARK ROAD EXIT.

TRAFFIC (RAMPS)

1. TRAFFIC ON RAMPS WHERE PATCHES ARE BEING CONSTRUCTED SHALL BE PARTIALLY CLOSED, PER DISTRICT DETAIL TC-17, ALLOWING A MINIMUM 12' TRAVEL LANE. NO RAMPS SHALL BE CLOSED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

CONSTRUCTION

CONSTRUCT ALL PAVEMENT PATCHES IN LANES 3, 4, 5 AND THE RAMPS (SB DIRECTION)



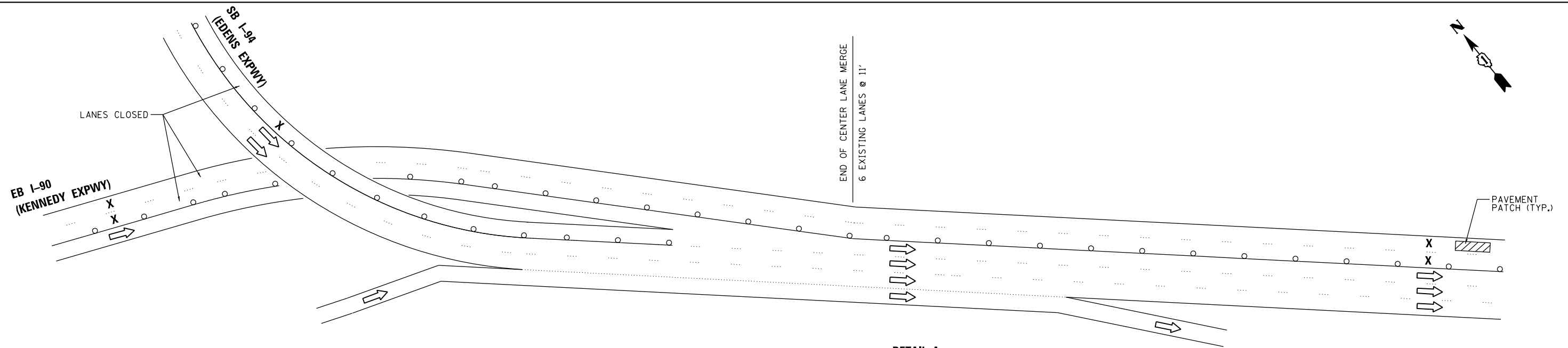
SUGGESTED STAGING NOTES:

SAWCUTTING TO BE DONE ON WEEKNIGHTS PER THE HOURS GIVEN IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC". PATCHING SHALL BE DONE PER FULL WEEKEND CLOSURE HOURS.

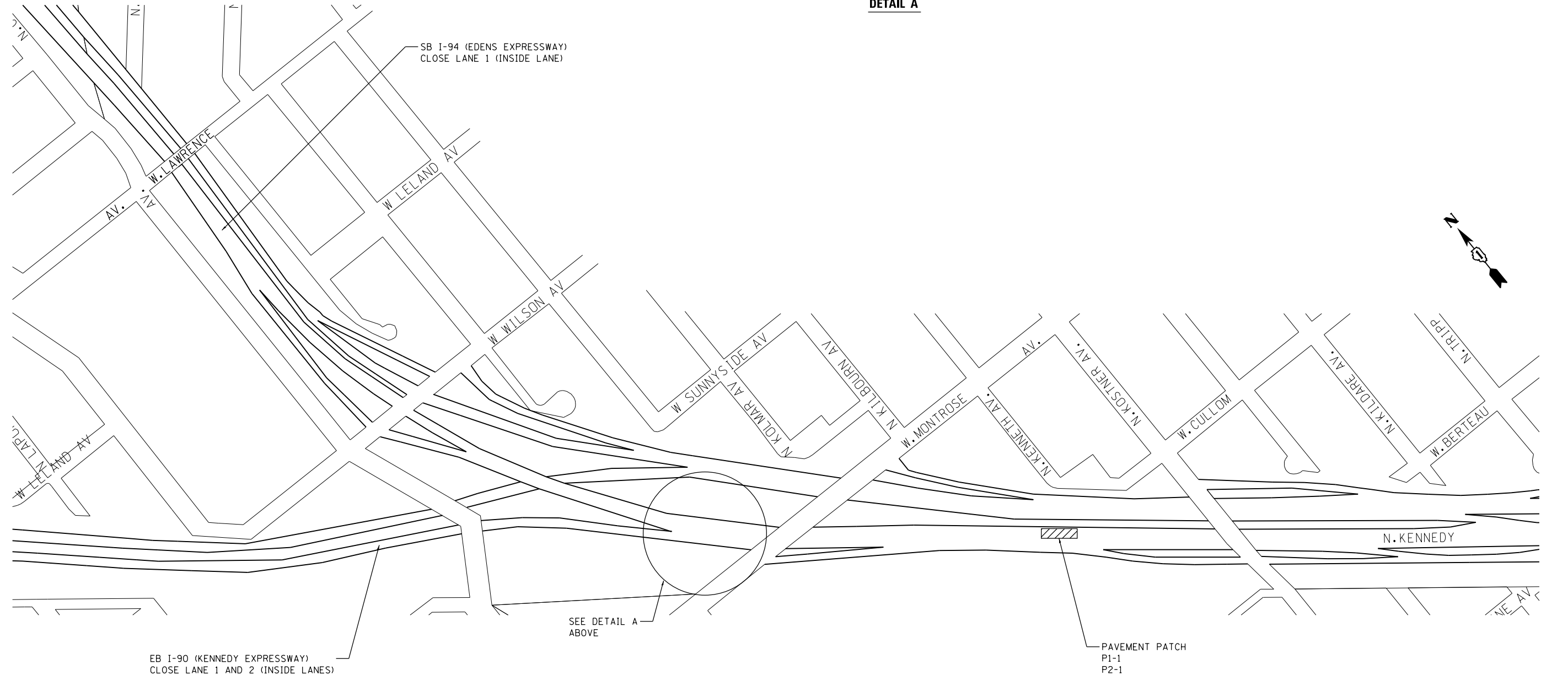
NO TWO ADJACENT RAMPS MAY BE CLOSED AT THE SAME TIME.

MAXIMUM LENGTH OF ANY CLOSURE IS 4 MILES.

USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
PLOT SCALE =	CHECKED - MR	REVISED -
PLOT DATE	DATE - DECEMBER 2012	REVISED -



DETAIL A



SEE DETAIL A ABOVE

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DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	
PLOT SCALE =		
PLOT DATE =		

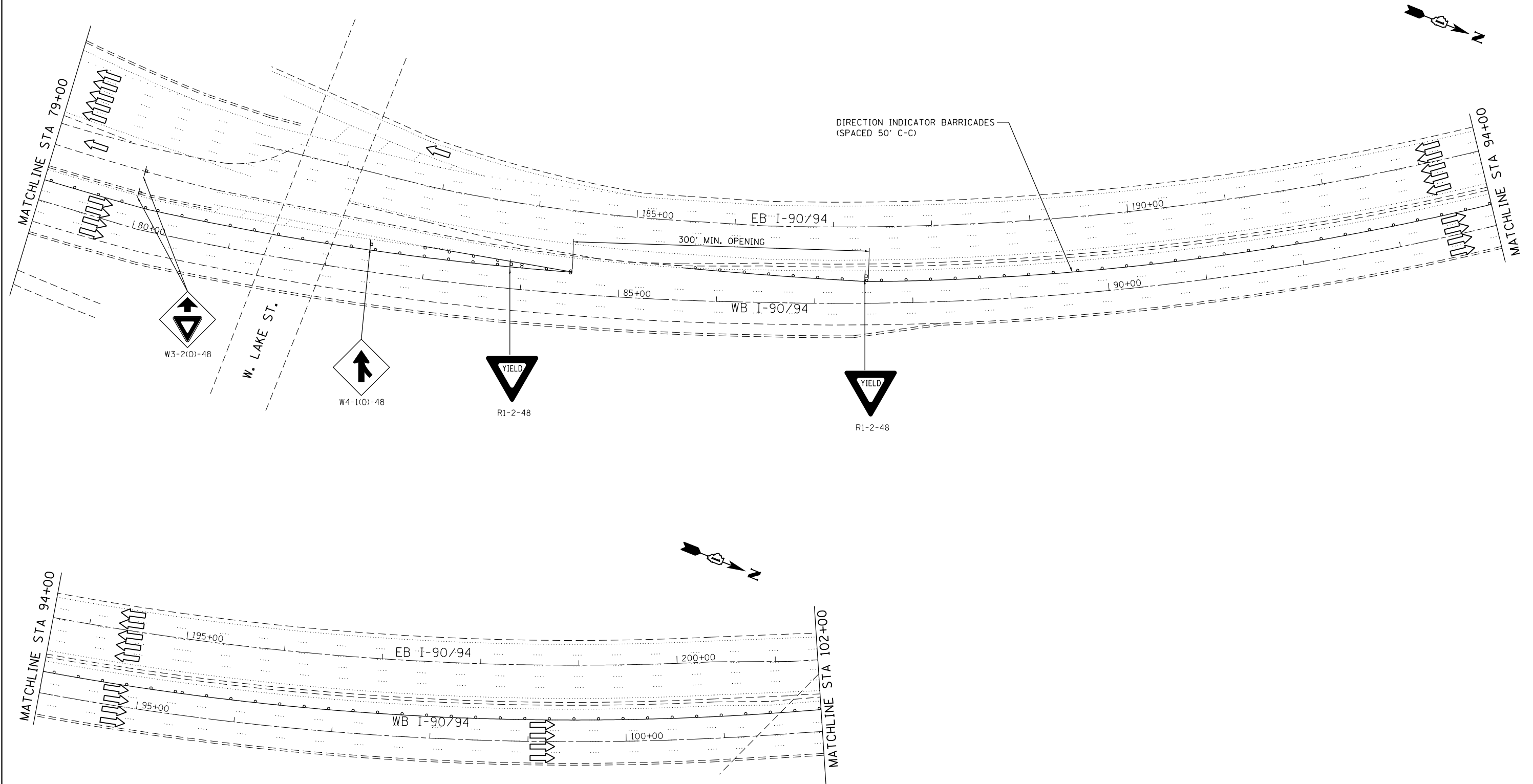
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAIL
 SB EDENS / KENNEDY JUNCTION
 STAGE IV**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 9
CONTRACT NO. 60V58				

ILLINOIS FED. AID PROJECT



- NOTES:**
- SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
 - SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.

LEGEND

	WORK AREA
	TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
	DIRECTION OF TRAFFIC FLOW
	SIGN
	ARROW BOARD
	TYPE III BARRICADE

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 Suite 900
 Chicago, IL 60606
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 Fax: (312) 704-9300
 www.collinseng.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 104-088993

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DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	
PLOT SCALE =		
PLOT DATE =		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

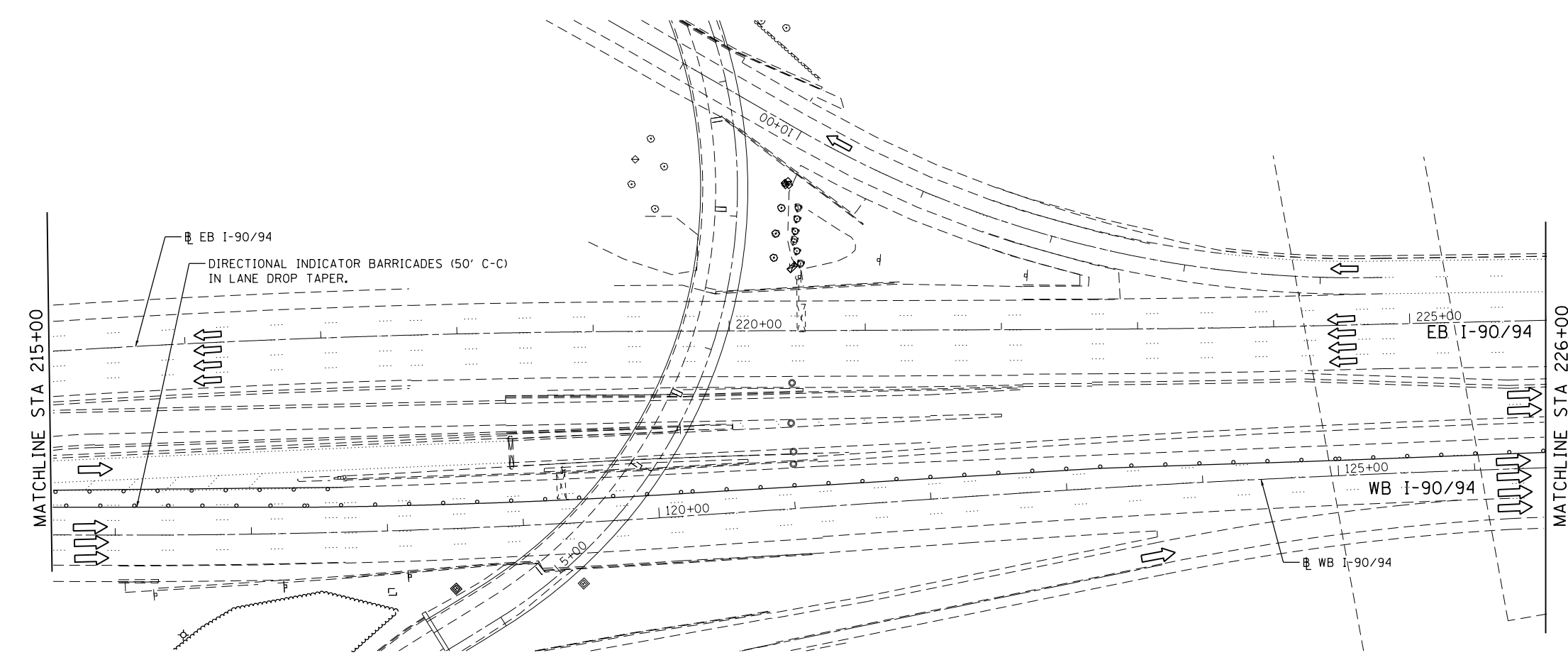
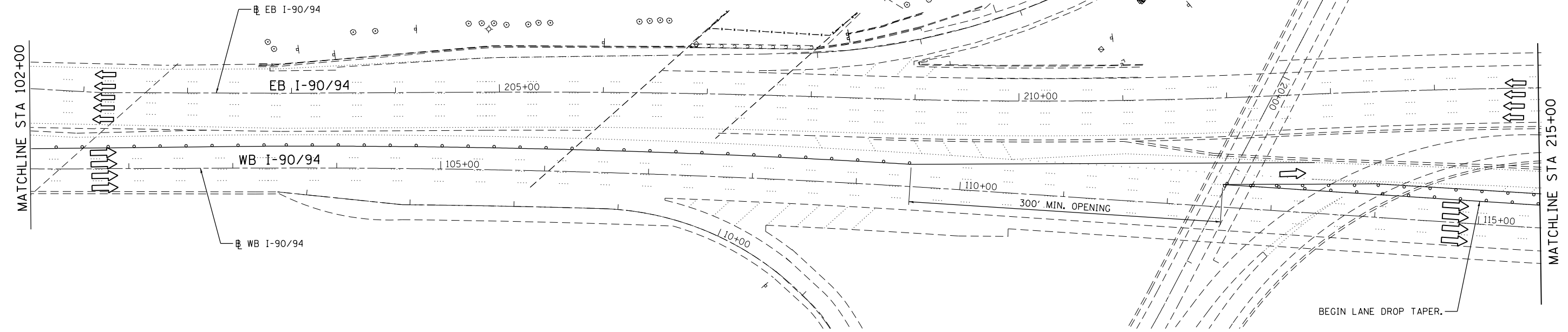
**STAGING AND TRAFFIC CONTROL
 I-90/94
 STAGE II**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	9B
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

NOTES:

1. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
2. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.



- LEGEND**
- WORK AREA
 - TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
 - DIRECTION OF TRAFFIC FLOW
 - SIGN
 - ARROW BOARD
 - TYPE III BARRICADE

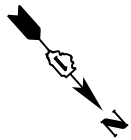
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USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	
PLOT SCALE =		
PLOT DATE		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

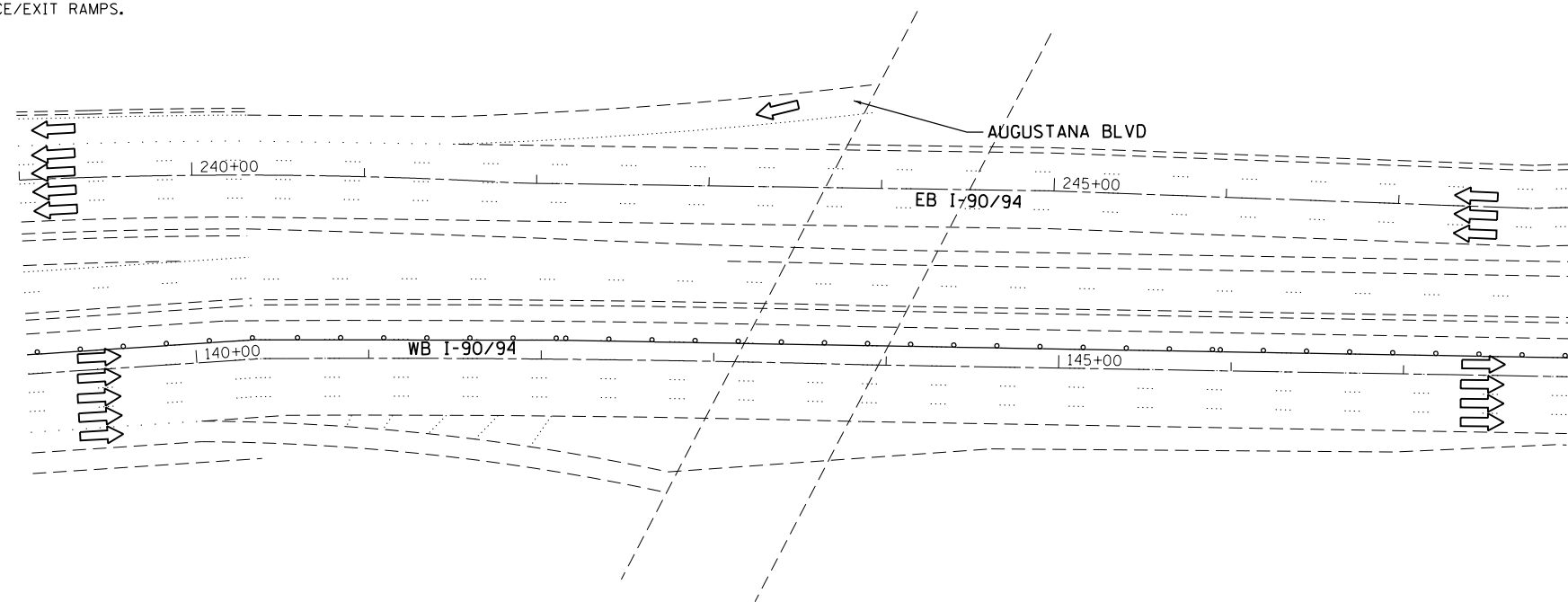
STAGING AND TRAFFIC CONTROL	
I-90/94	
STAGE II	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 9C
CONTRACT NO. 60V58				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
2. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE

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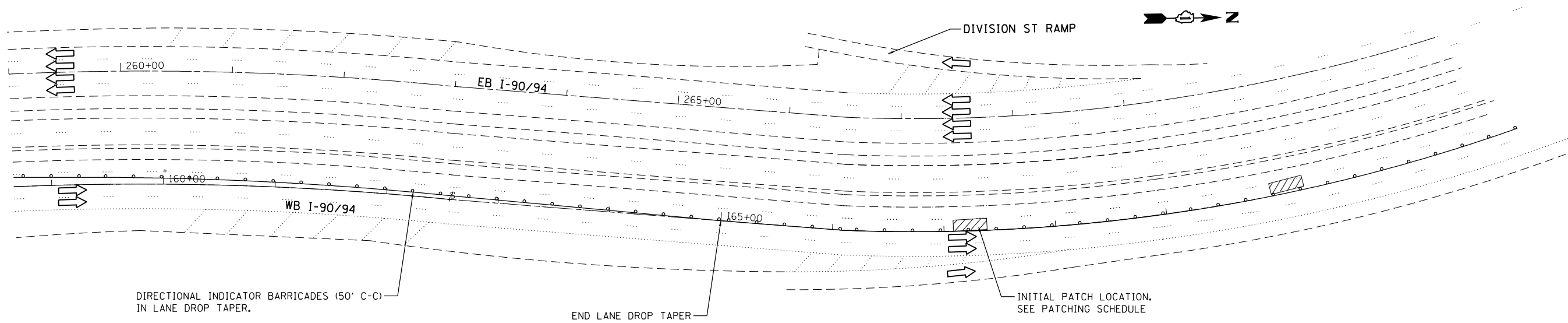
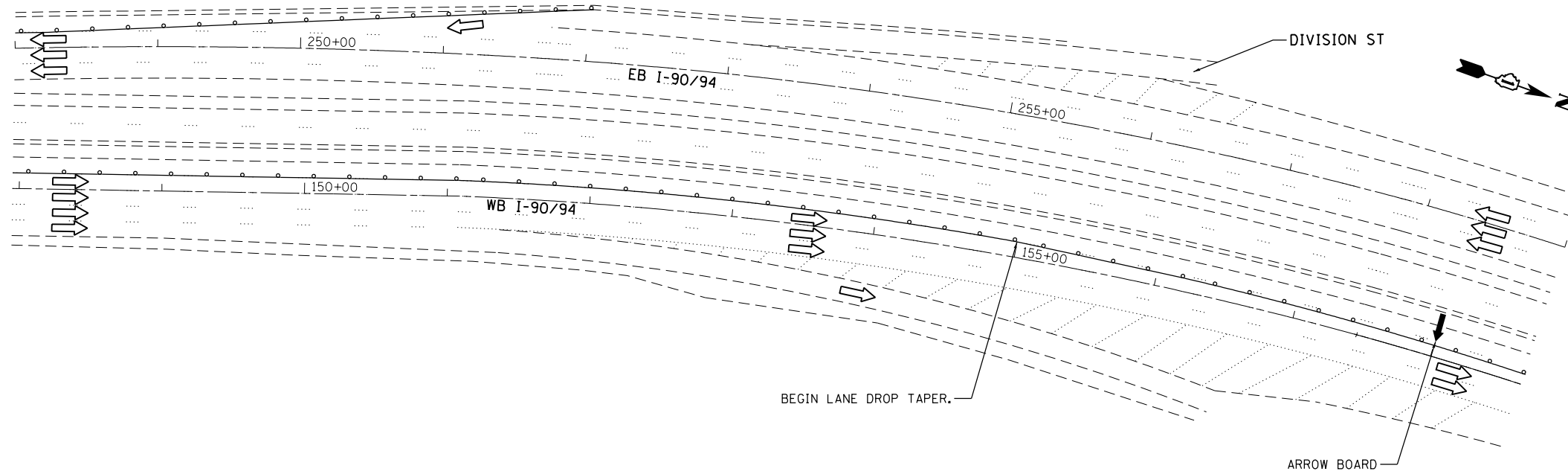
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DATE - DECEMBER 2012	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**







**STAGING AND TRAFFIC CONTROL
 I-90/94
 STAGE II**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 9D
				CONTRACT NO. 60V58
ILLINOIS FED. AID PROJECT				



LEGEND

-  WORK AREA
-  TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
-  DIRECTION OF TRAFFIC FLOW
-  SIGN
-  ARROW BOARD
-  TYPE III BARRICADE

NOTES:

1. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
2. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.

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PLOT SCALE =		
PLOT DATE =		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

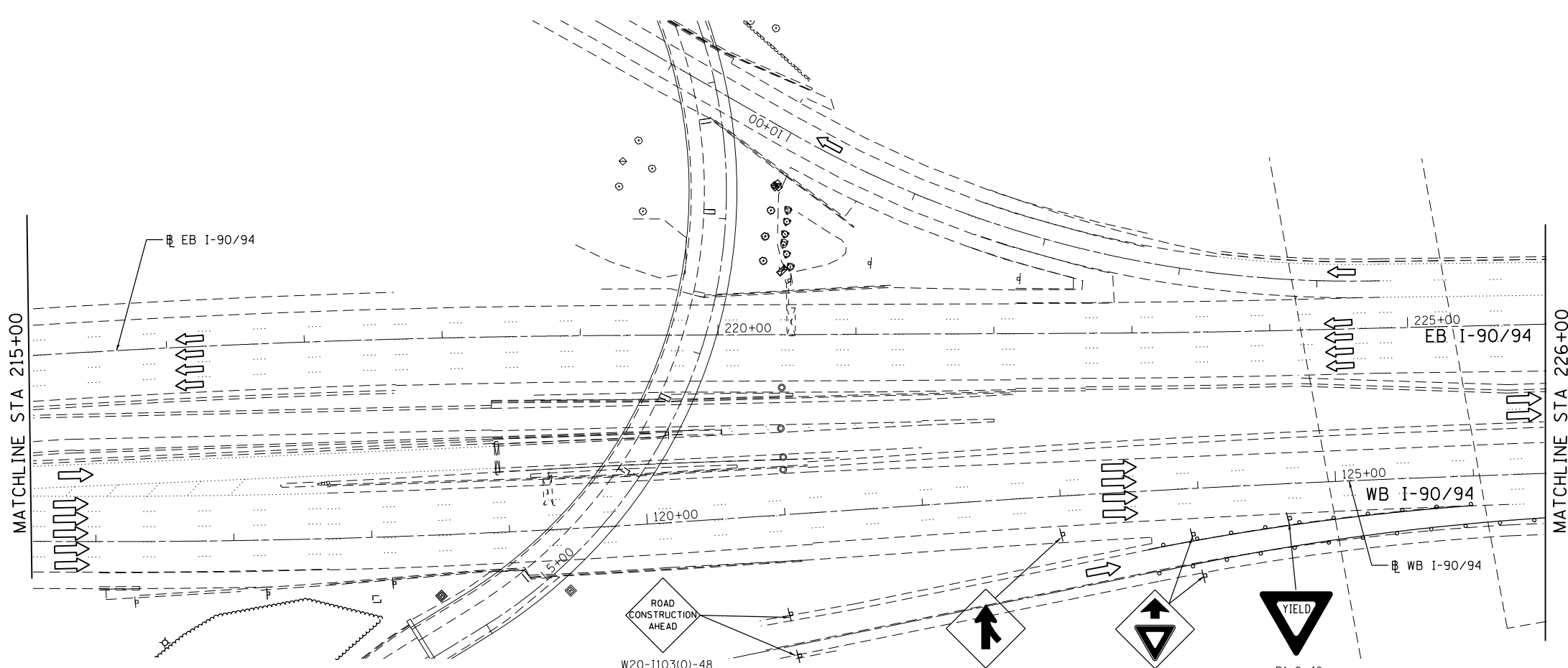
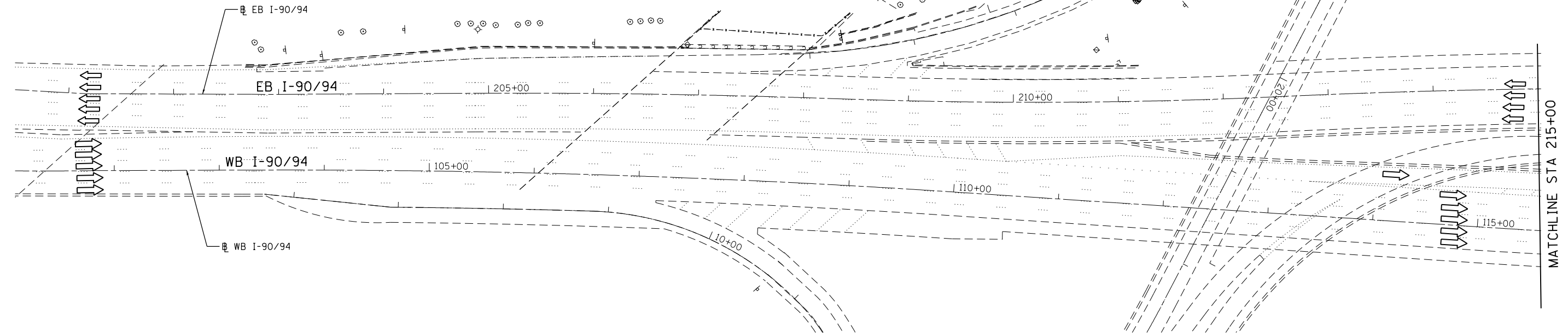
**STAGING AND TRAFFIC CONTROL
 I-90/94
 STAGE II**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 9E
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

NOTES:

1. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
2. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.



LEGEND

	WORK AREA
	TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
	DIRECTION OF TRAFFIC FLOW
	SIGN
	ARROW BOARD
	TYPE III BARRICADE

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DATE - DECEMBER 2012	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

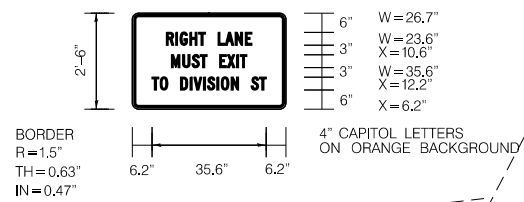
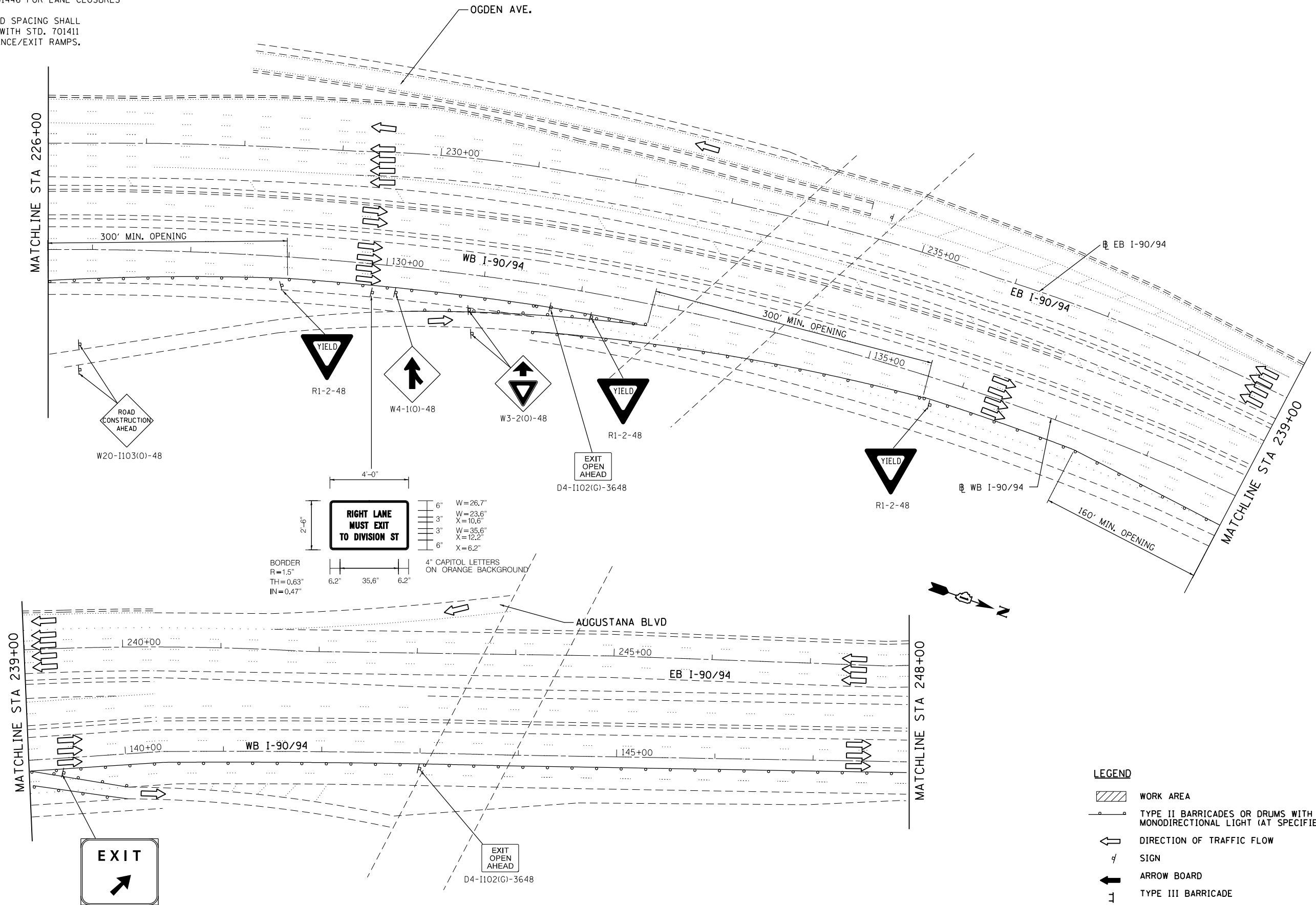
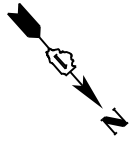
**STAGING AND TRAFFIC CONTROL
 I-90/94
 STAGE III**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 9F
CONTRACT NO. 60V58				ILLINOIS FED. AID PROJECT

NOTES:

- SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
- SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE

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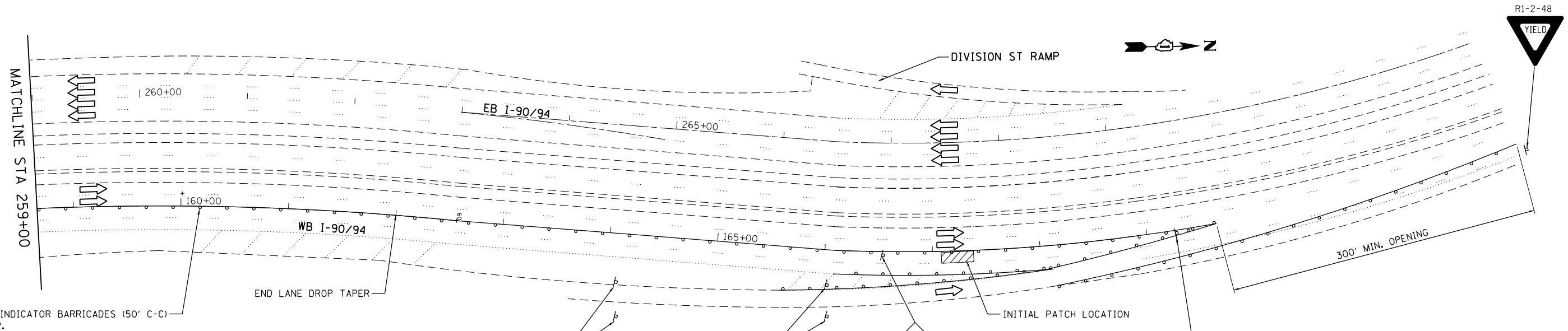
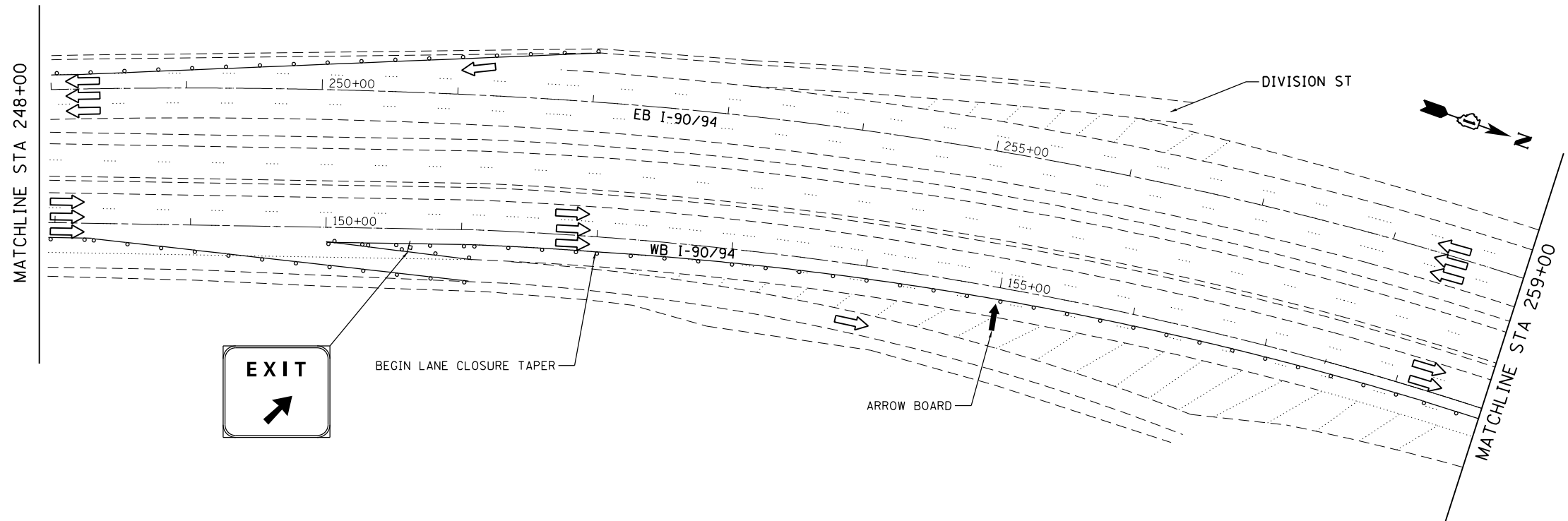
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DRAWN - RC	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
I-90/94
STAGE III**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 96
CONTRACT NO. 60V58				ILLINOIS FED. AID PROJECT



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE



NOTES:

1. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES
2. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.

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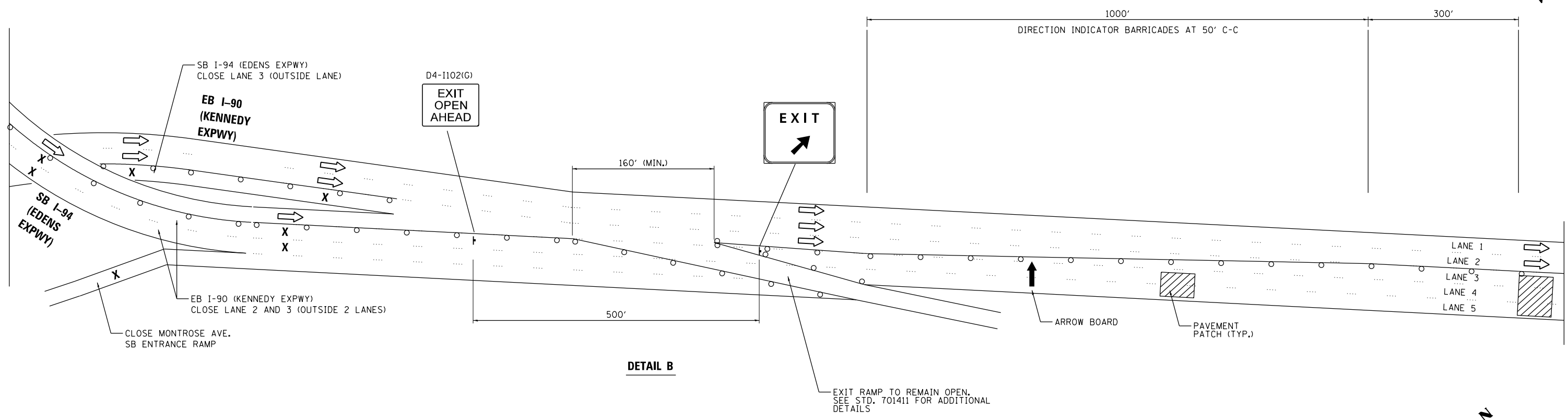
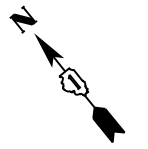
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PLOT SCALE =		
PLOT DATE =		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

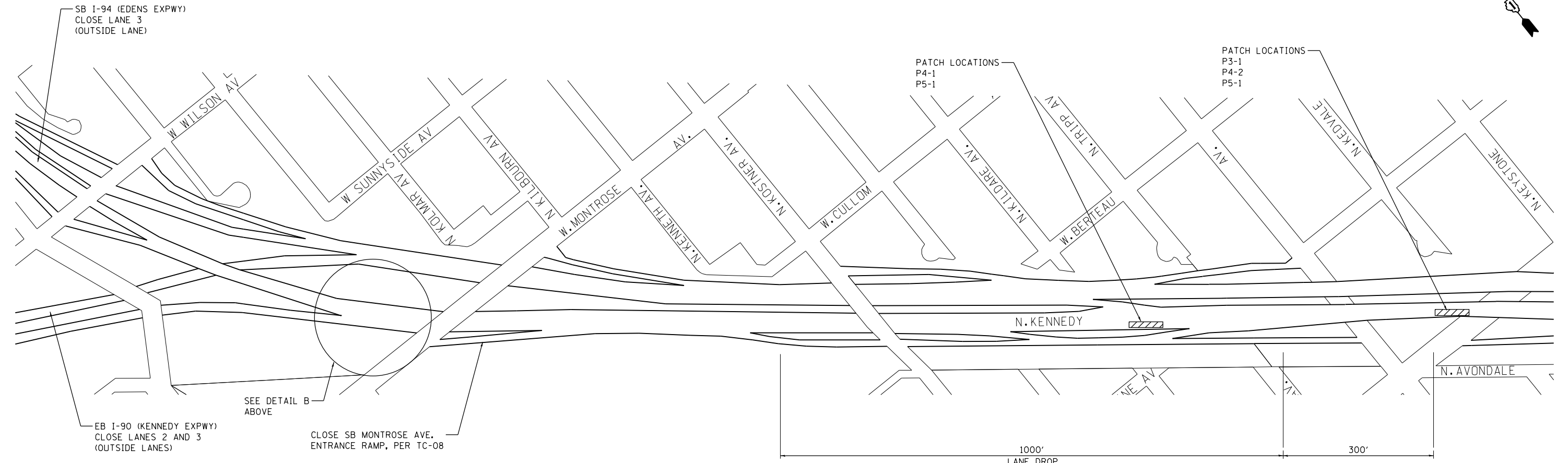
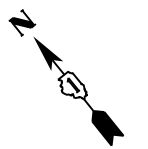
**STAGING AND TRAFFIC CONTROL
 I-90/94
 STAGE III**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 9H
CONTRACT NO. 60V58				ILLINOIS FED. AID PROJECT



DETAIL B



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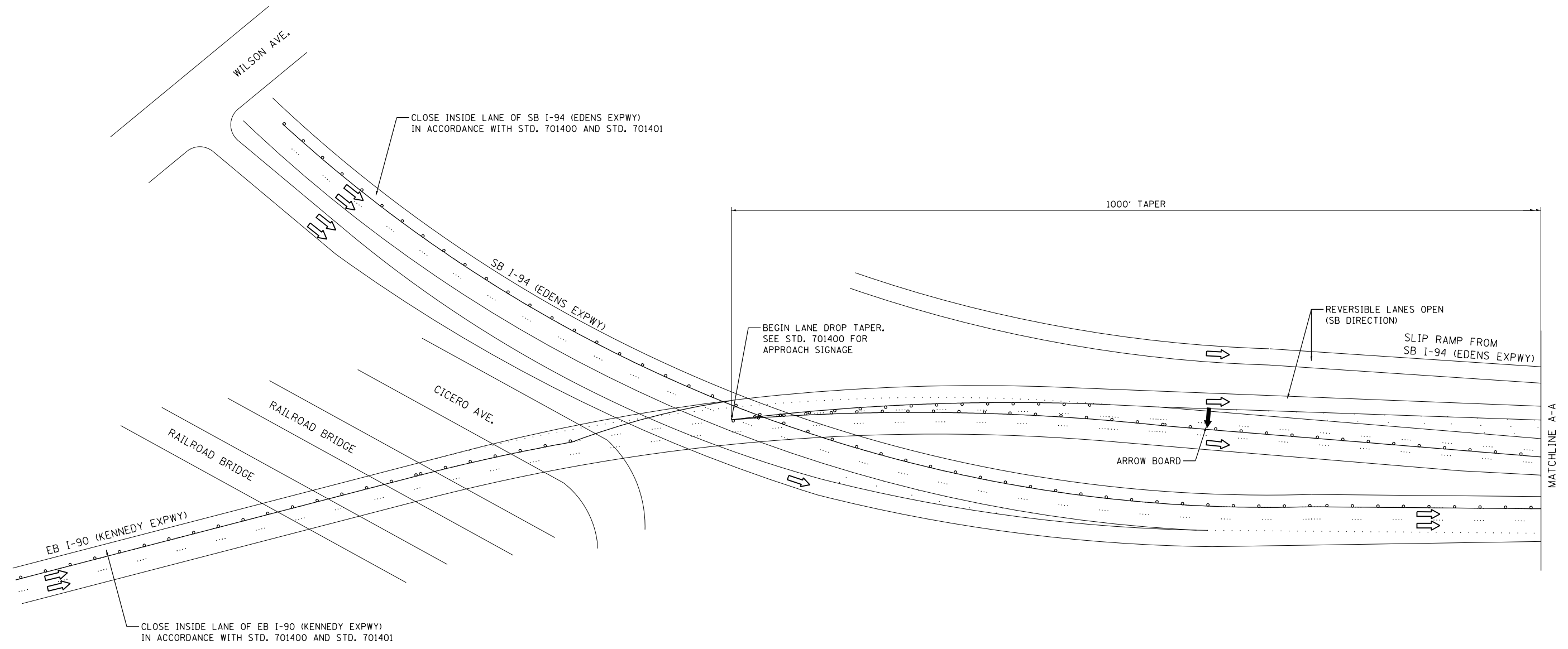
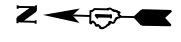
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DATE - DECEMBER 2012	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAIL
 SB EDENS / KENNEDY JUNCTION
 STAGE V**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE

NOTES:

1. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701400 AND STD. 701401/701446 FOR LANE CLOSURES.
2. DIRECTIONAL INDICATOR BARRICADES AT 50' C-C SPACING SHALL BE USED IN LANE CLOSURE TAPERS. TYPE II BARRICADES AT 100' SPACING SHALL BE USED ELSEWHERE, UNLESS OTHERWISE INDICATED.
3. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMP.

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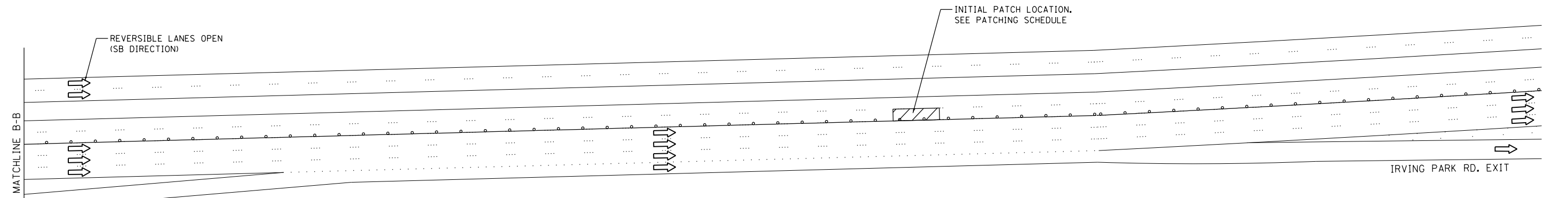
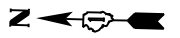
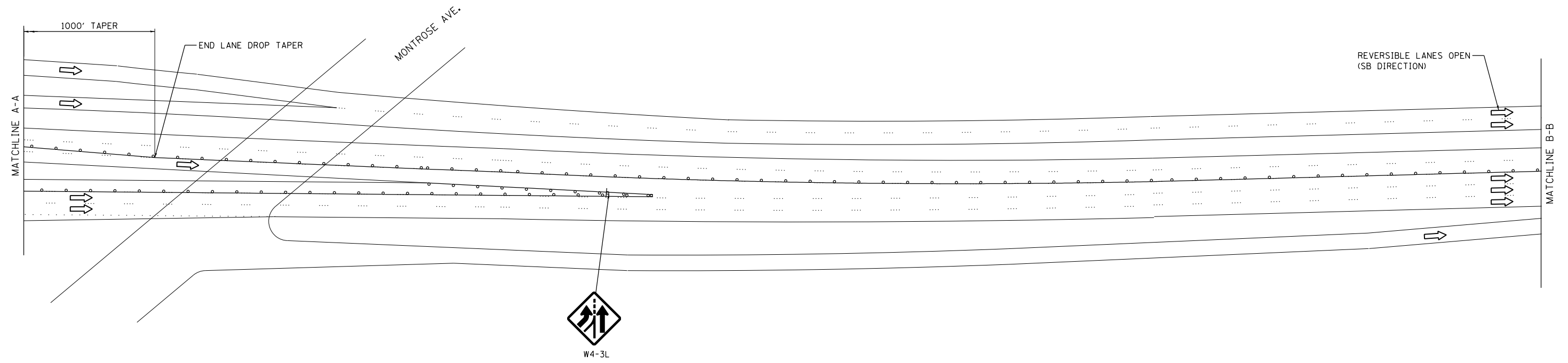
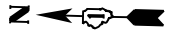
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
 SB EDENS /KENNEDY JUNCTION
 STAGE IV**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	10A
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE

NOTES:

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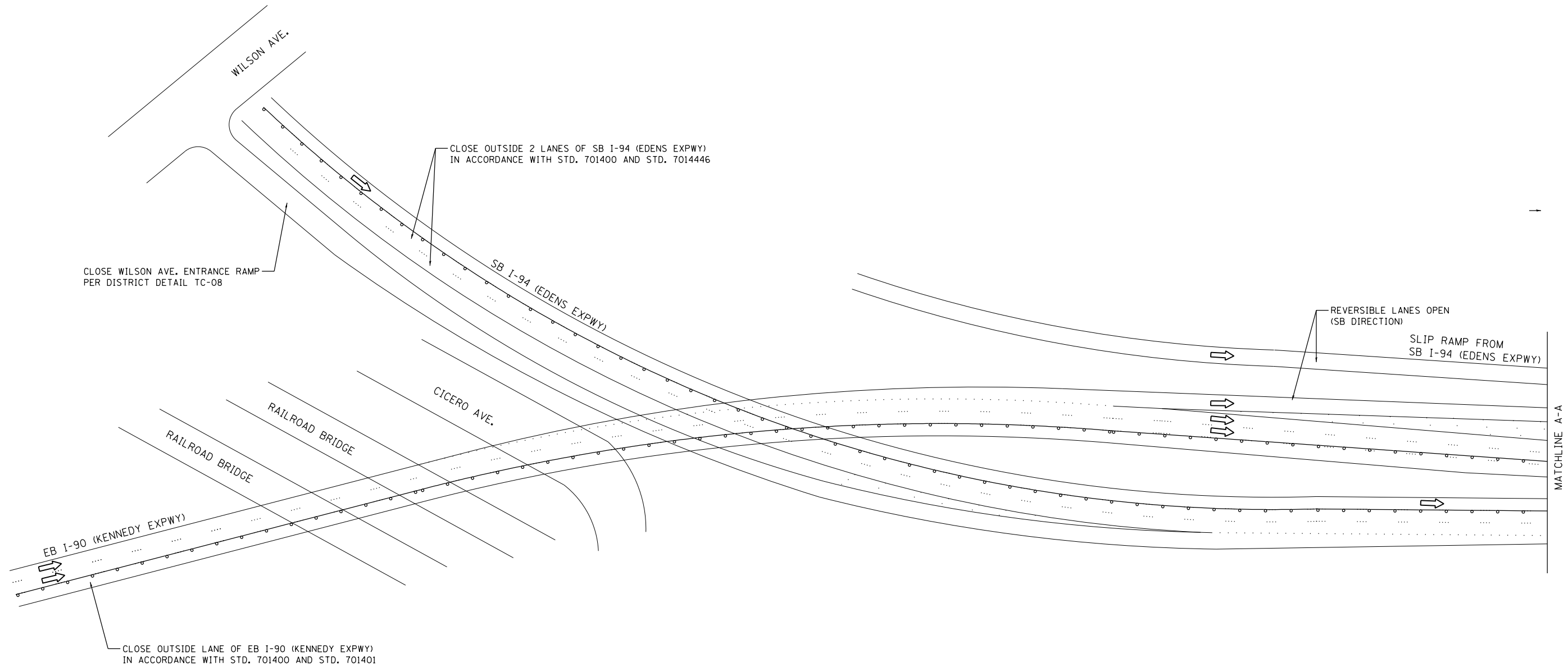
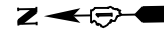
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DRAWN - RG	REVISOR -	
CHECKED - MR	REVISOR -	
DATE - DECEMBER 2012	REVISOR -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
 SB EDENS /KENNEDY JUNCTION
 STAGE IV**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	10B
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE

NOTES:

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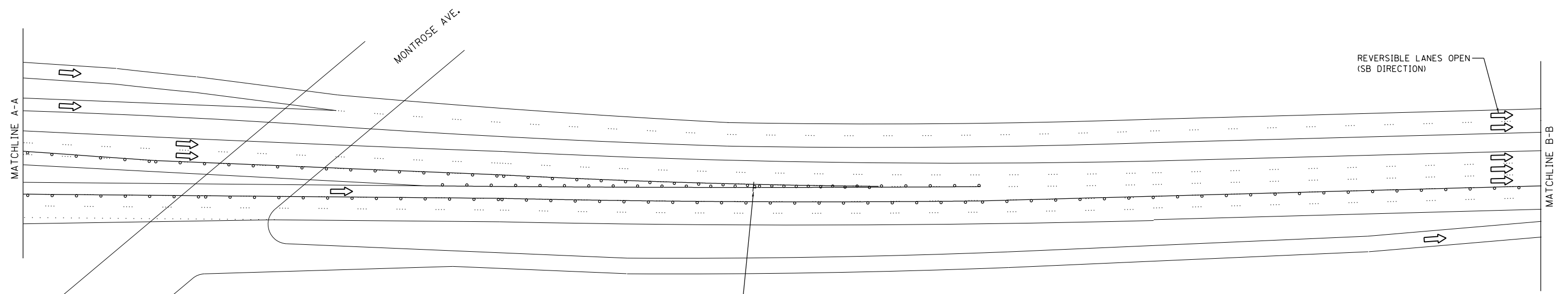
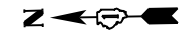
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
 SB EDENS /KENNEDY JUNCTION
 STAGE V**

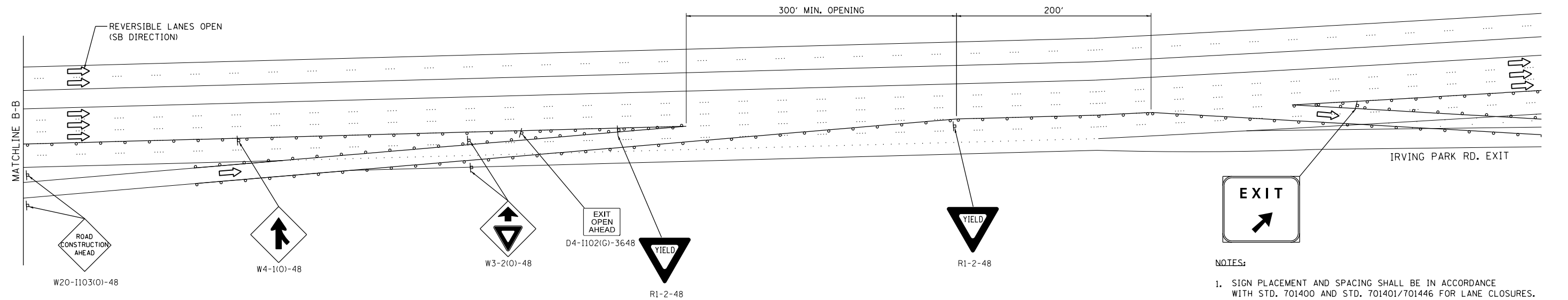
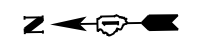
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	10C
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



LEGEND

- WORK AREA
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
- DIRECTION OF TRAFFIC FLOW
- SIGN
- ARROW BOARD
- TYPE III BARRICADE



NOTES:

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3. SIGN PLACEMENT AND SPACING SHALL BE IN ACCORDANCE WITH STD. 701411 AT AFFECTED ENTRANCE/EXIT RAMPS.
4. BEGIN LANE 3 CLOSURE TAPER SOUTH OF IRVING PARK ROAD EXIT RAMP.

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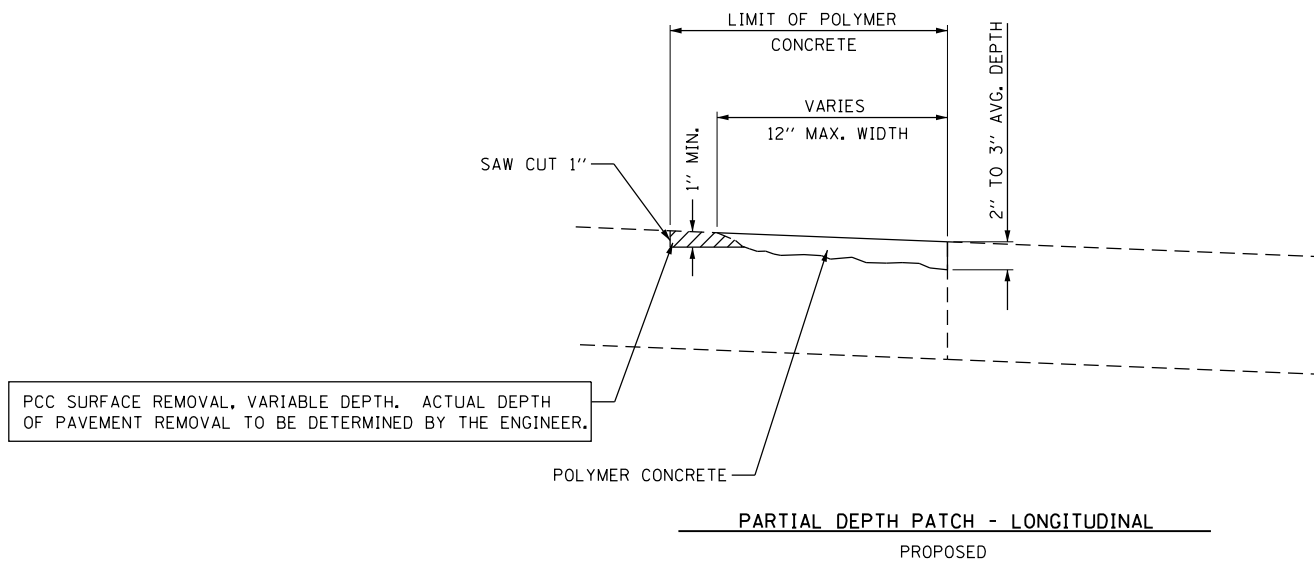
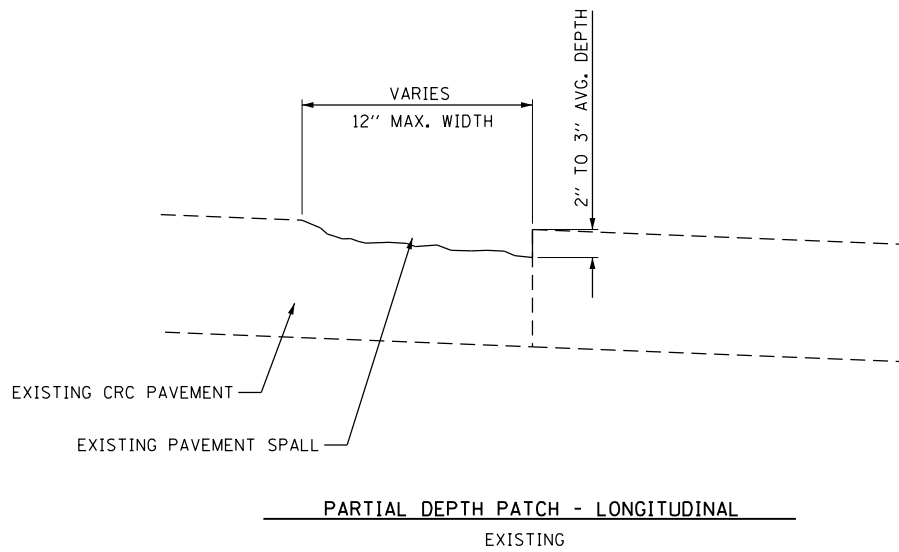
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING AND TRAFFIC CONTROL
 SB EDENS /KENNEDY JUNCTION
 STAGE V**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.I. R.E. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 10D
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



PCC SURFACE REMOVAL, VARIABLE DEPTH. ACTUAL DEPTH OF PAVEMENT REMOVAL TO BE DETERMINED BY THE ENGINEER.

NOTES:

1. SAWCUTS WILL BE PAID FOR SEPARATELY.

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CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	11
CONTRACT NO. 60V58				
ILLINOIS FED. AID PROJECT				

MILE MARKER	DIRECTION	LANE	LENGTH (FT)	WDTH (FT)	PATCH AREA				SAWCUTS 44213200 (FT)	TIE BARS ZD075300 (EACH)	PATCHING REINFORCEMENT 44213000 (SQ YD)	PCC SURFACE REMOVAL (VARIABLE DEPTH) X4400100 (SQ YD)	POLYMER CONCRETE Z0041895 (CU FT)
					TYPE I (SQ YD)	TYPE II (SQ YD)	TYPE III (SQ YD)	TYPE IV (SQ YD)					
49-47	NB	2	6	12		8.0			67.0		8.0		
49-47	NB	3	6	12		8.0			67.0		8.0		
47-34	NB	SHOULDER	6	12		8.0			67.0		8.0		
46-61	NB	4	6	12		8.0			73.0		8.0		
46-32	NB	3	6	12		8.0			67.0		8.0		
46-32	NB	4	6	12		8.0			73.0		8.0		
45-93	NB	2	6	12		8.0			67.0		8.0		
45-66	NB	2	6	12		8.0			67.0		8.0		
45-66	NB	3	6	12		8.0			67.0		8.0		
45-66	NB	4	6	12		8.0			73.0		8.0		
44-46	NB	3	6	12		8.0			67.0		8.0		
44-30	NB	4	6	12		8.0			73.0		8.0		
44-15	NB	4	6	12		8.0			73.0		8.0		
48-50	NB	4	6	6	4.0				49.0		4.0		
48-28 TO 48-22	NB	4	5	6	3.3				46.0		3.3		
48-22 TO 48-11	NB	4	5	6	3.3				46.0		3.3		
46-55 TO 46-60	NB	3	8	6		5.3			47.0		5.3		
46-46	NB	3	10	12		13.3			75.0		13.3		
46-46	NB	4	10	12		13.3			85.0		13.3		
45-93	NB	1	6	12		8.0			73.0		8.0		
45-93	NB	2	6	12		8.0			67.0		8.0		
45-66	NB	2	6	12		8.0			67.0		8.0		
44-55	NB	4	6	6	4.0				49.0		4.0		
44-43	NB	4	6	12		8.0			73.0		8.0		
44-22	NB	4	6	12		8.0			73.0		8.0		
SHEET TOTALS													
					14.7	176.0	0.0	0.0	1651.0	0.0	190.7	0.0	
					SQ YD	SQ YD	SQ YD	SQ YD	FT	EACH	SQ YD	SQ YD	
												CU FT	



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DEPARTMENT OF TRANSPORTATION**

PATCHING LOCATIONS NB			
SCALE:	SHEET OF	SHEETS	STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 12
CONTRACT NO. 60V58				ILLINOIS FED. AID PROJECT

MILE MARKER	DIRECTION	LANE	LENGTH (FT)	WDTH (FT)	PATCH AREA				SAWCUTS 44213200 (FT)	TIE BARS ZD075300 (EACH)	PATCHING REINFORCEMENT 44213000 (SQ YD)	PCC SURFACE REMOVAL (VARIABLE DEPTH) X4400100 (SQ YD)	POLYMER CONCRETE Z0041895 (CU FT)
					TYPE I (SQ YD)	TYPE II (SQ YD)	TYPE III (SQ YD)	TYPE IV (SQ YD)					
42-62	SB	1	50	12				66.7	205.0	50	66.7		
43-54 TO 43-57	SB	2	8	6		5.3			47.0		5.3		
44-69 TO 44-15	SB	2	6	12		8.0			67.0		8.0		
44-15 TO 44-20	SB	4,5	50	12				66.7	205.0	50	66.7		
44-15 TO 44-20	SB	4,5	12	15			20.0		103.0		20.0		
44-33 TO 44-41	SB	3	12	12			16.0		79.0		16.0		
44-33 TO 44-41	SB	4	12	12			16.0		91.0		16.0		
44-33 TO 44-41	SB	5	12	12			16.0		91.0		16.0		
44-33 TO 44-41	SB	4,5	5	12		6.7			70.0		6.7		
44-96 TO 45-11	SB	3	50	12				66.7	155.0	50	66.7		
44-96 TO 45-11	SB	3	50	12				66.7	155.0	50	66.7		
45-05	SB	1	6	12		8.0			73.0		8.0		
45-15	SB	3	8	6		5.3			47.0		5.3		
45-58	SB	2	6	12		8.0			67.0		8.0		
45-58	SB	3	6	12		8.0			67.0		8.0		
45-68	SB	SHOULDER	12	25				33.3	131.0		33.3		
46-00	SB	4	12	12			16.0		91.0		16.0		
46-55 TO 46-68	SB	3	6	12		8.0			67.0		8.0		
46-68 TO 46-72	SB	3	6	12		8.0			67.0		8.0		
46-68 TO 46-72	SB	4	12	12			16.0		91.0		16.0		
46-72 TO 46-83	SB	3	50	12				66.7	155.0	50	66.7		
46-72 TO 46-83	SB	4	50	12				66.7	205.0	50	66.7		
47-42	SB	1	6	12		8.0			73.0		8.0		
47-42	SB	3	6	12		8.0			67.0		8.0		
47-42	SB	4	6	12		8.0			73.0		8.0		
47-42	SB	4	6	12		8.0			73.0		8.0		
47-47 TO 47-75	SB	RAMP	15	18				30.0	124.0		30.0		
47-75 TO 47-78	SB	3	50	12				66.7	155.0	50	66.7		
48-28 TO 48-50	SB	RAMP	12	20				26.7	123.0		26.7		
49-20 TO 49-39	SB	4	6	12		8.0			73.0		8.0		
49-80 TO 49-16	SB	4	6	6	4.0				49.0		4.0		
SHEET TOTALS					4.0	105.3	100.0	556.7	3139.0	350.0	766.0	0.0	0.0
					SQ YD	SQ YD	SQ YD	SQ YD	FT	EACH	SQ YD	SQ YD	CU FT



USER NAME =	DESIGNED - RG	REVISED -
DRAWN - RG	REVISED -	
CHECKED - MR	REVISED -	
DATE - DECEMBER 2012	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PATCHING LOCATIONS			
SB			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 13
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

MILE MARKER	DIRECTION	LANE	LENGTH (FT)	WDTH (FT)	PATCH AREA				SAWCUTS 44213200 (FT)	TIE BARS ZD075300 (EACH)	PATCHING REINFORCEMENT 44213000 (SQ YD)	PCC SURFACE REMOVAL (VARIABLE DEPTH) X4400100 (SQ YD)	POLYMER CONCRETE Z0041895 (CU FT)
					TYPE I (SQ YD)	TYPE II (SQ YD)	TYPE III (SQ YD)	TYPE IV (SQ YD)					
45-00 TO 45-11	Reversible Lanes	2	3	0.5					5.0			0.2	0.5
45-00 TO 45-11	Going South	2	1	1					3.0				0.2
45-00 TO 45-11		2	8	6		5.3			55.0		5.3		
45-15		1	12	12			16.0		91.0		16.0		
45-15		2	12	12			16.0		91.0		16.0		
45-15		1	6	6	4.0				49.0		4.0		
45-15		1	12	6		8.0			67.0		8.0		
45-66		1	6	12		8.0			73.0		8.0		
45-66		2	6	12		8.0			73.0		8.0		
45-66		2	6	12		8.0			73.0		8.0		
45-76		2	14	0.7					16.0			0.5	2.3
45-77		2	30	0.5					32.0	30		1.7	5.0
45-84		1	6	12		8.0			73.0		8.0		
45-84		2	6	12		8.0			73.0		8.0		
45-93		1	6	12		8.0			73.0		8.0		
45-93		2	6	12		8.0			73.0		8.0		
46-36		2	6	12		8.0			73.0		8.0		
46-55		1	6	12		8.0			73.0		8.0		
46-55		2	6	12		8.0			73.0		8.0		
46-55		2	6	12		8.0			73.0		8.0		
46-59		1	6	12		8.0			73.0		8.0		
46-59		2	6	12		8.0			73.0		8.0		
46-59		3	6	12		8.0			73.0		8.0		
46-59		4	6	12		8.0			73.0		8.0		
47-08		1	6	12		8.0			73.0		8.0		
47-08		2	6	12		8.0			73.0		8.0		
47-26		2	25	0.7					27.0	25		0.8	4.2
47-29		2	20	0.7					22.0	20		0.7	3.3
47-29		2	20	0.5					22.0	20		1.1	3.3
47-33		2	28	0.7					30.0	28		0.9	4.7
47-35 TO 47-47		2	180	1					182.0	180			30.0
47-60		2	26	0.5					28.0	26		1.4	4.3
47-67		2	30	1					32.0	30			5.0
47-67 TO 47-75		2	60	1					62.0	60			10.0
47-98 TO 48-04		2	80	0.7					82.0	80		2.7	13.3
48-04		2	20	0.5					22.0	20		1.1	3.3
48-04		2	20	1					22.0	20			3.3
48-12		2	5	1					7.0				0.8
48-12		2	10	0.5					12.0			0.6	1.7
48-27		1	6	12		8.0			73.0		8.0		
48-27		2	6	12		8.0			73.0		8.0		
48-38		2	20	0.5					22.0	20		1.1	3.3
48-49		2	6	12		8.0			73.0		8.0		
48-71		1	6	12		8.0			73.0		8.0		
48-91		1	6	12		8.0			73.0		8.0		
48-91 TO 48-94		2	6	12		8.0			73.0		8.0		
48-94 TO 49-01		2	60	0.5					62.0	60		3.3	10.0
49-01 TO 49-08		2	80	0.7					82.0	80		2.7	13.3
49-08 TO 49-12		2	25	0.5					27.0	25		1.4	4.2
49-12 TO 49-14		2	20	0.5					22.0	20		1.1	3.3
49-40		1	6	12		8.0			73.0		8.0		
49-51 TO 49-55		1	6	12		8.0			73.0		8.0		
49-80		2	30	0.5					32.0	30		1.7	5.0
SHEET TOTALS					4.0	213.3	32.0	0.0	3031.0	774.0	249.3	22.9	134.6
					SQ YD	SQ YD	SQ YD	SQ YD	FT	EACH	SQ YD	SQ YD	CU FT



USER NAME =	DESIGNED - RG	REVISED -
PLOT SCALE =	DRAWN - RG	REVISED -
PLOT DATE	CHECKED - MR	REVISED -
	DATE - DECEMBER 2012	REVISED -

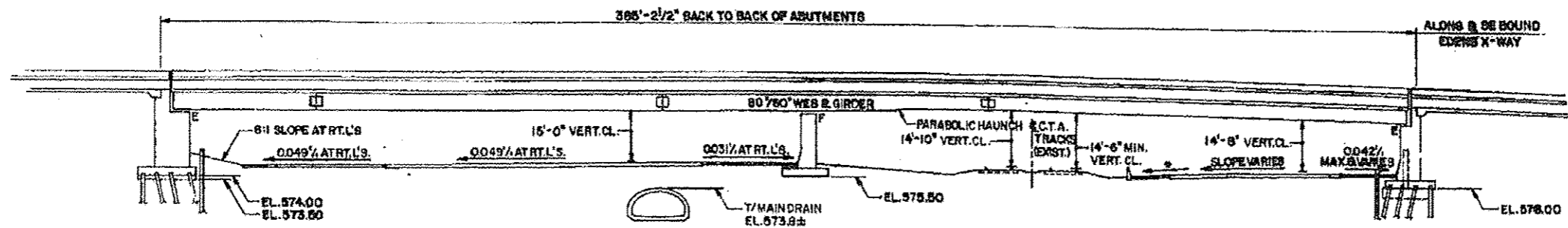
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PATCHING LOCATIONS
REVERSIBLE LANES**

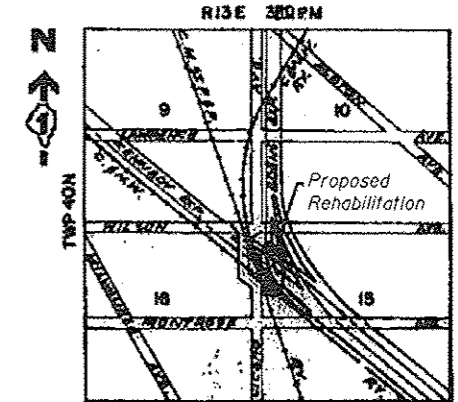
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	14
CONTRACT NO. 60V58				
ILLINOIS FED. AID PROJECT				

DIRECTION	PATCH AREA				PATCH AREA (SPECIAL)			SAW CUTS	TIE BARS	PATCHING	PCC SURFACE	POLYMER CONCRETE	
	TYPE I	TYPE II	TYPE III	TYPE IV		TYPE II	TYPE III	TYPE IV		REINFORCEMENT	REMOVAL (VARIABLE DEPTH)		
	44200549 (SQ YD)	44200553 (SQ YD)	44200557 (SQ YD)	44200559 (SQ YD)		X4420553 (SQ YD)	X4420557 (SQ YD)	X4420559 (SQ YD)	44213200 (FT)	Z0075300 (EACH)	44213000 (SQ YD)	X4400100 (SQ YD)	Z0041895 (CU FT)
NB	14.67	85.33	0.00	0.00		90.67	0.00	0.00	1651.00	0.00	190.67	0.00	0.00
SB	4.00	46.67	84.00	290.00		58.67	16.00	266.67	3139.00	350.00	766.00	0.00	0.00
REVERSIBLE LANES	4.00	104.00	16.00	0.00		109.33	16.00	0.00	3031.00	774.00	249.33	22.90	134.61
TOTAL	23	236	100	290		259	32	267	7821	1124	1206	23	135



ELEVATION



LOCATION PLAN

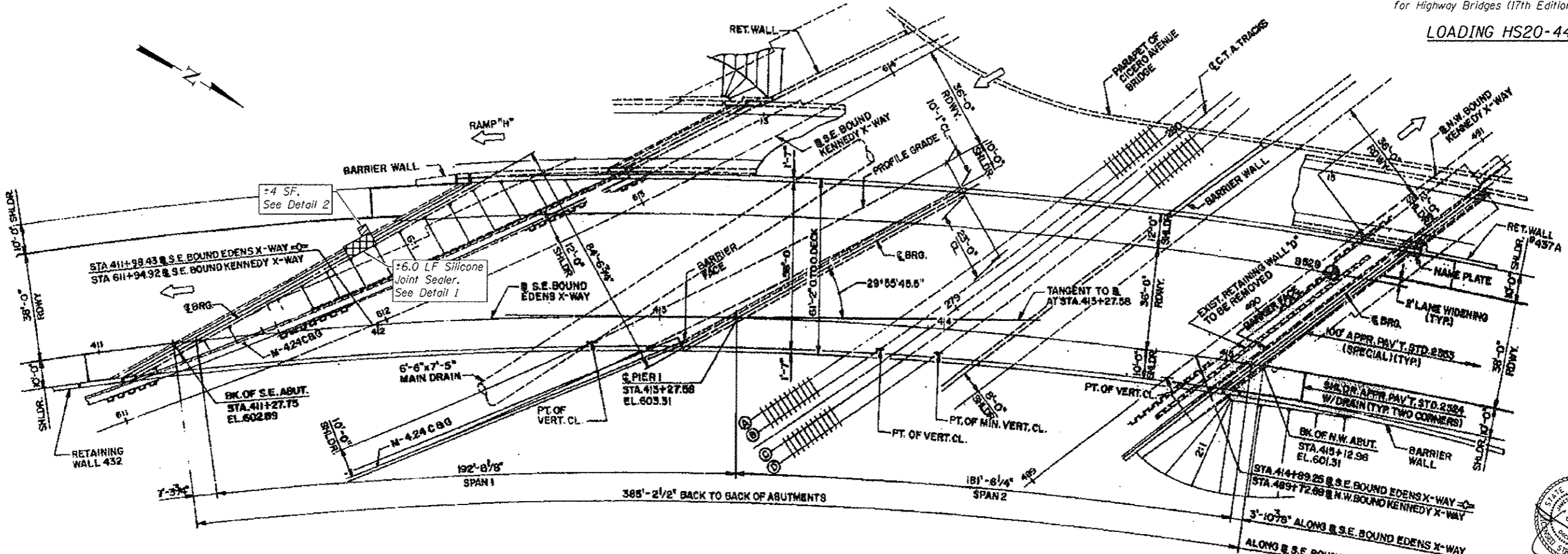
- LEGEND**
- Concrete Removal and Polymer Concrete
 - Joint Repair Area
 - ±10.0 LF Scope of Work

SCOPE OF WORK

- 1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS, INC.
1173 N. State St., Suite 800, Chicago, IL 60642
Tel: (312) 354-8300 Fax: (312) 354-8100
www.collins-engineers.com

USER NAME	DESIGNED - AMS	REVISED -
PLOT SCALE	DRAWN - AMS	REVISED -
PLOT DATE	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-94 (SB) OVER I-90 & CTA BLUE LINE (SN 016-2574)

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0558R	COOK	107	16
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

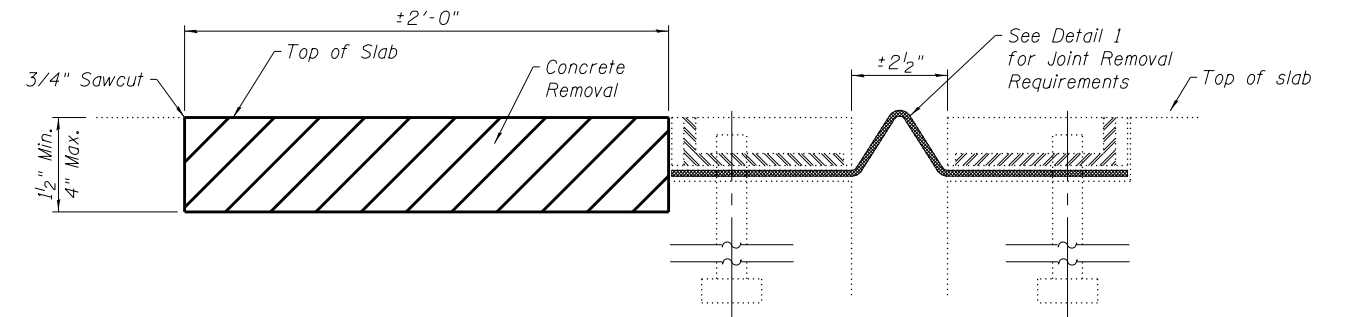
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

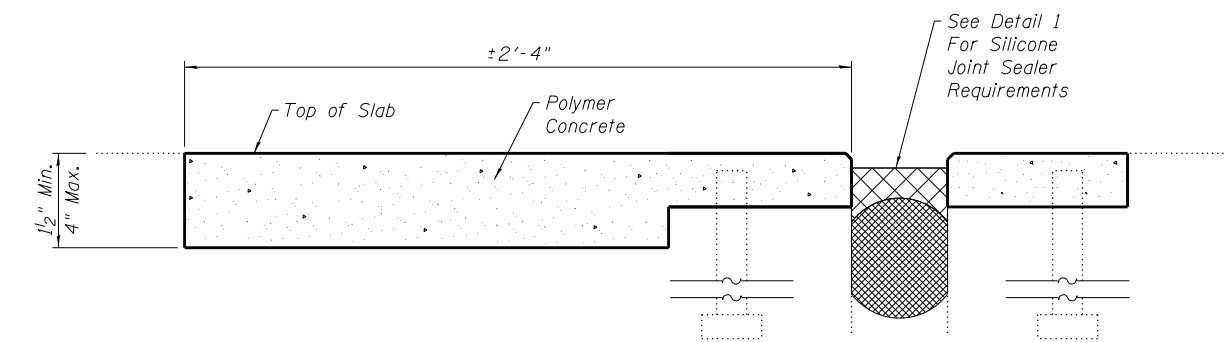
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2 1/2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

BILL OF MATERIAL

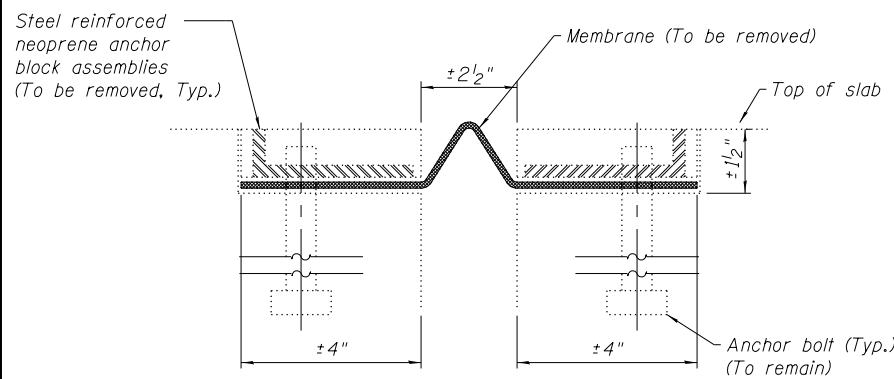
ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.1
Silicone Joint Sealer, 2 1/2"	Foot	6.0
Polymer Concrete	Cu. Ft.	1.9



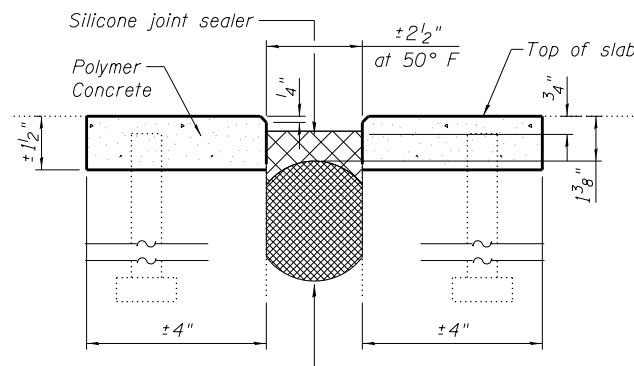
EXISTING CONDITIONS



PROPOSED CONDITIONS



SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER

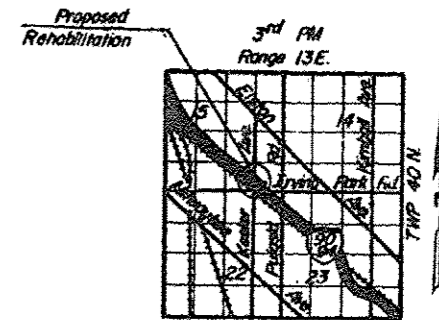
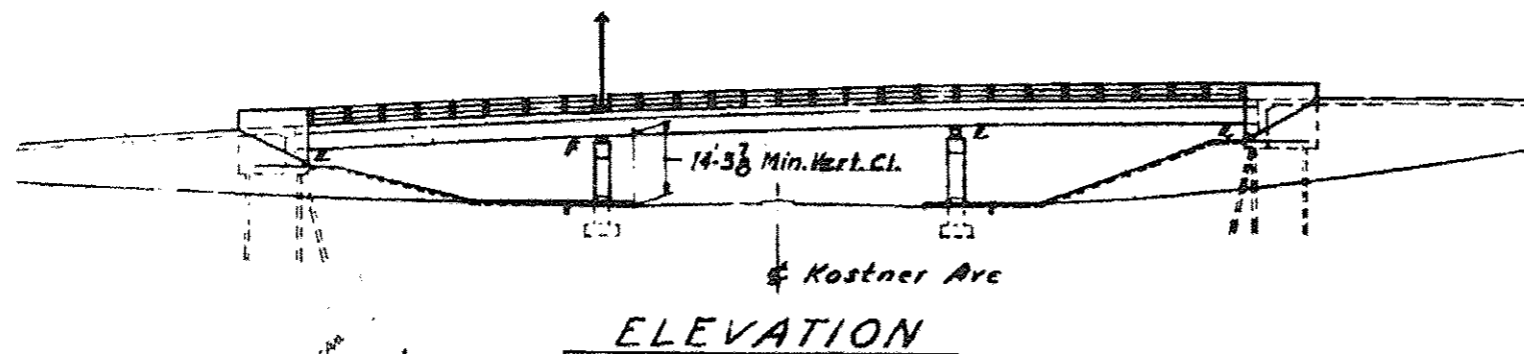
Backer rod having a diameter 25% greater than joint opening at the time of installation.

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	REVISED -	
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



SCOPE OF WORK

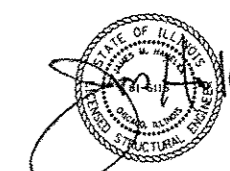
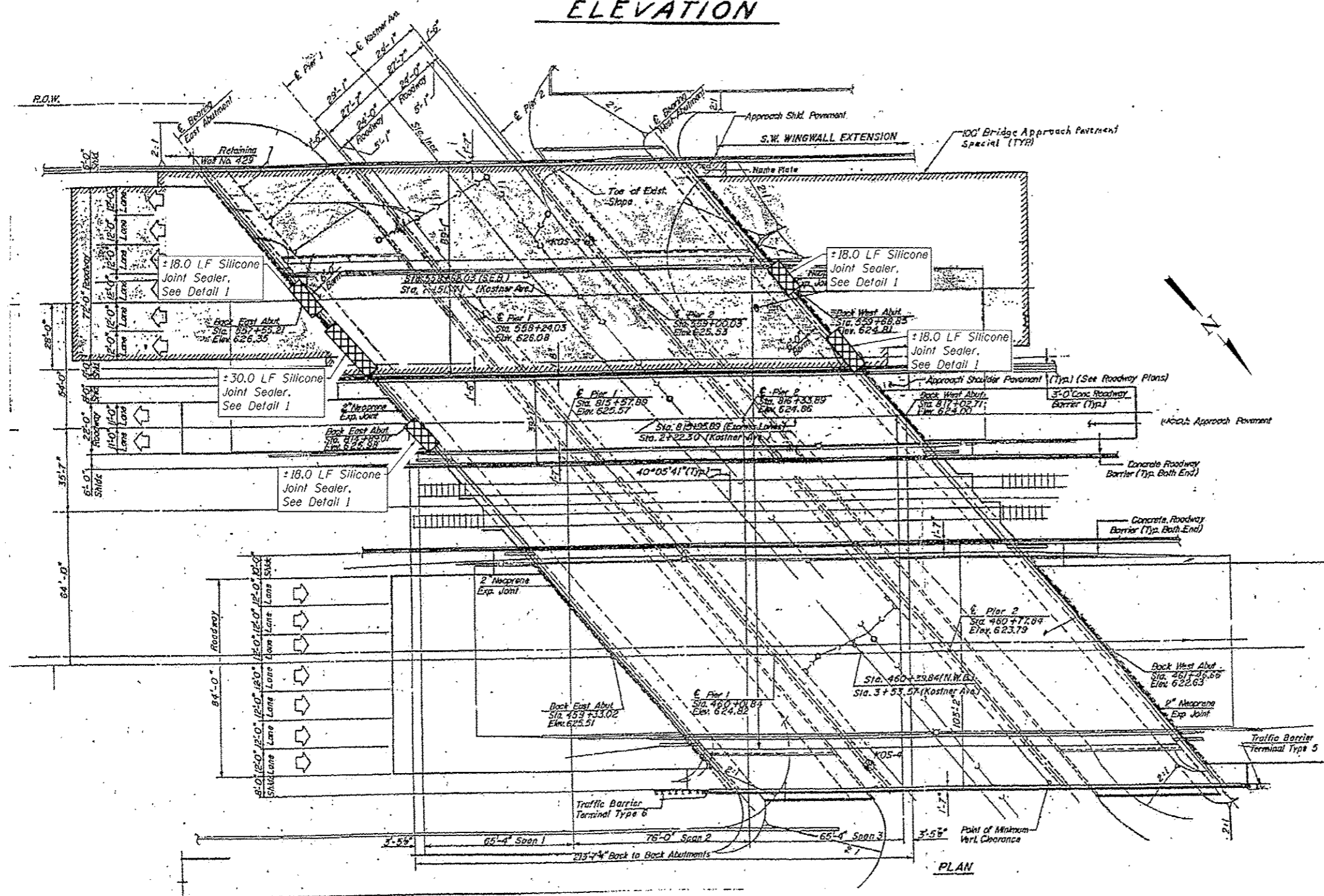
1. Expansion Joint Repairs
2. Substructure Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

- Joint Repair Area
- Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014



USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER KOSTNER AVE (SN 016-0111 & 016-0112)

SHEET NO. 51 OF 57 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	18
CONTRACT NO.			60V58	
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

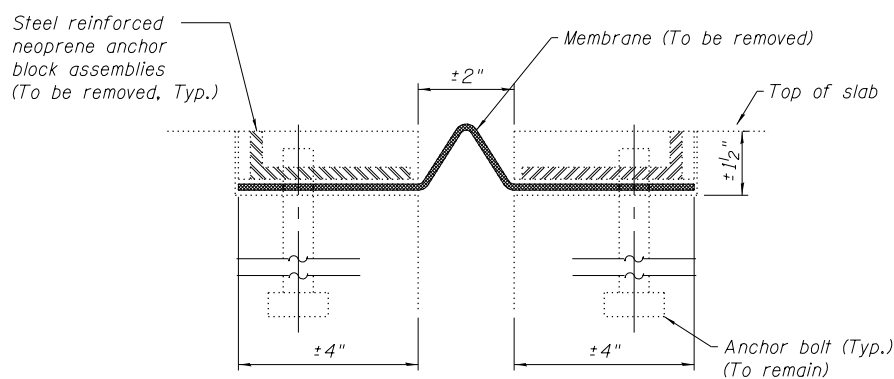
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details
- S3. Abutment Repairs - N.W. Bound Lanes
- S4. Pier 1 Repairs - N.W. Bound Lanes
- S5. Pier 2 Repairs - N.W. Bound Lanes
- S6. Abutment Repairs - S.E. Bound & Reverse Lanes
- S7. Pier 2 Repairs - S.E. Bound & Reverse Lanes

GENERAL NOTES

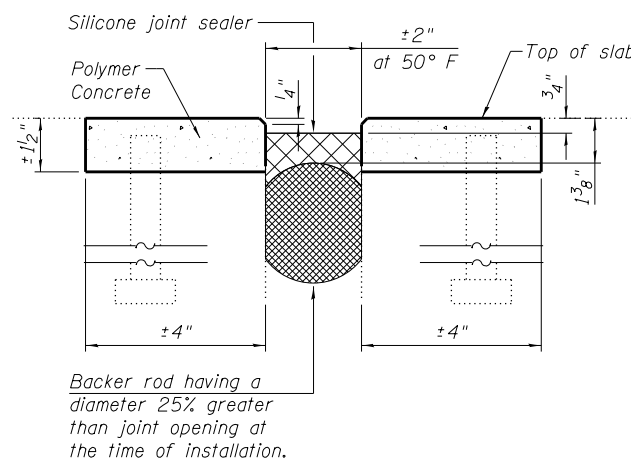
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	102.0
Polymer Concrete	Cu. Ft.	8.5
Structural Repair of Concrete (Depth Equal To or Less Than 5")	Sq. Ft.	130
Slope Wall Removal	Sq. Yd.	10
Slope Wall, 4"	Sq. Yd.	10
Porous Granular Embankment	Cu. Yd.	10



SECTION THROUGH EXISTING NEOPRENE JOINT

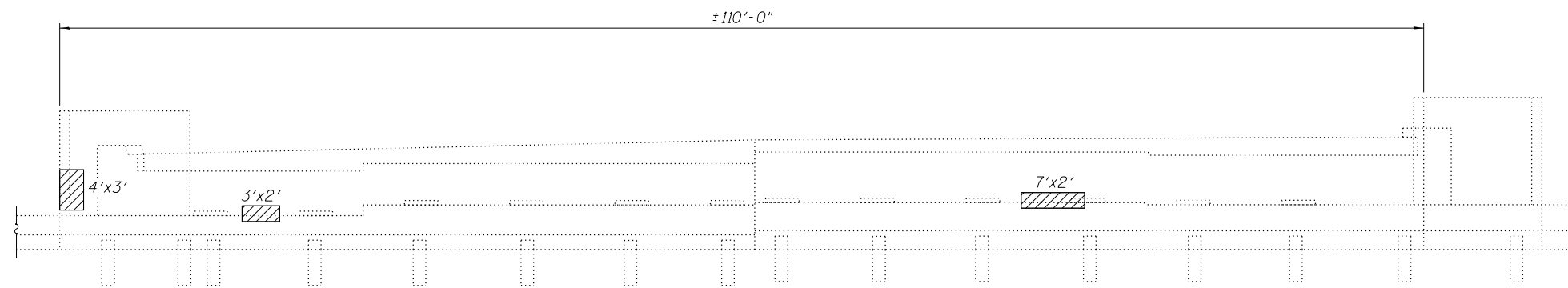


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1


USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



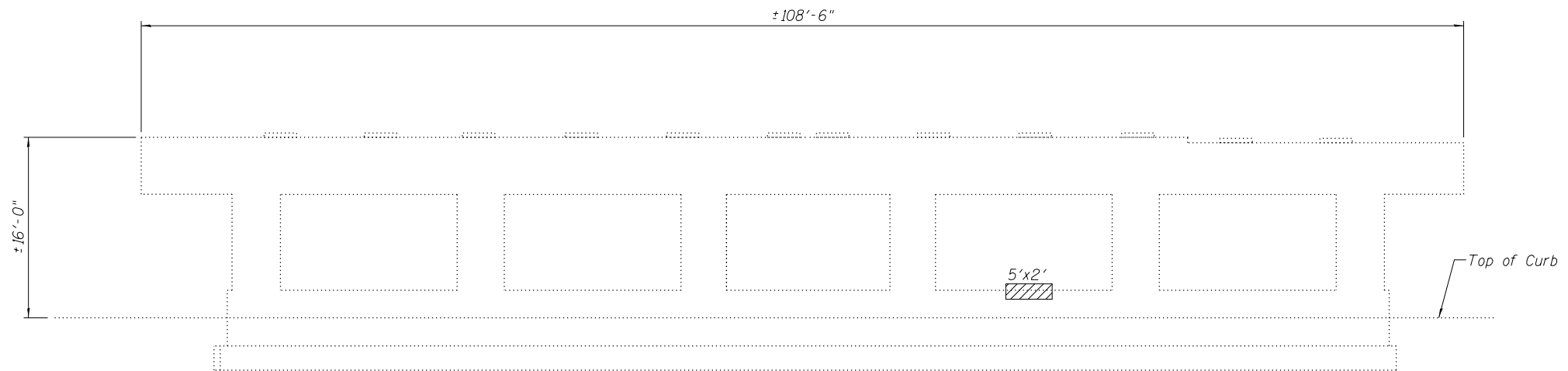
EAST ABUTMENT ELEVATION
Looking East

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	32


USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	20
CONTRACT NO.			60V58	
ILLINOIS FED. AID PROJECT				



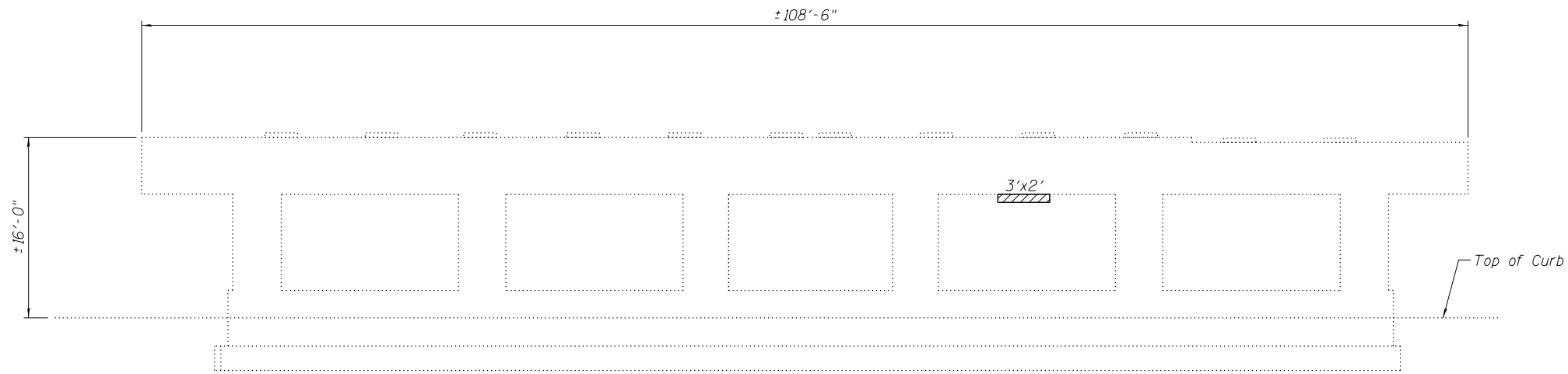
PIER 1 ELEVATION
Looking West

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	10

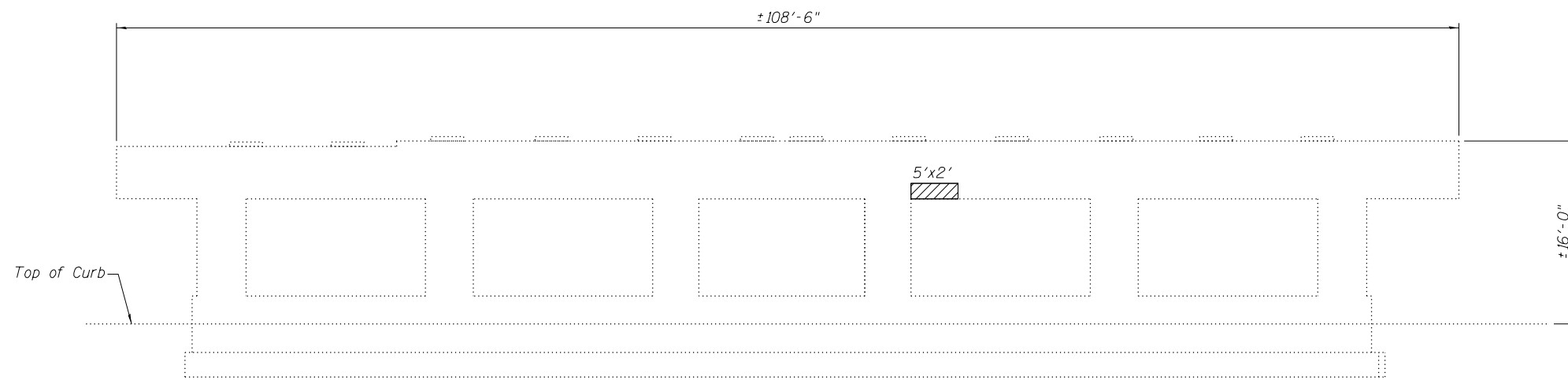
USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	21
CONTRACT NO.			60V58	
ILLINOIS FED. AID PROJECT				



PIER 2 ELEVATION


Looking West



PIER 2 ELEVATION

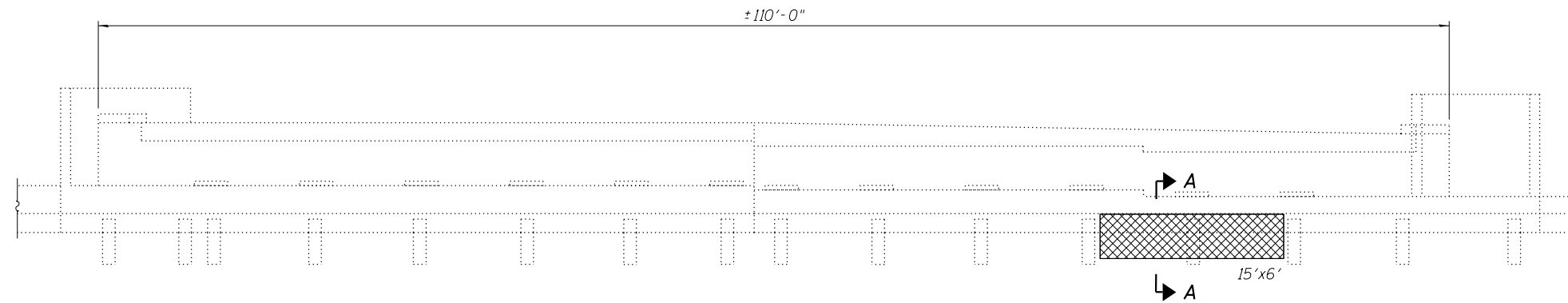
Looking East

BILL OF MATERIAL

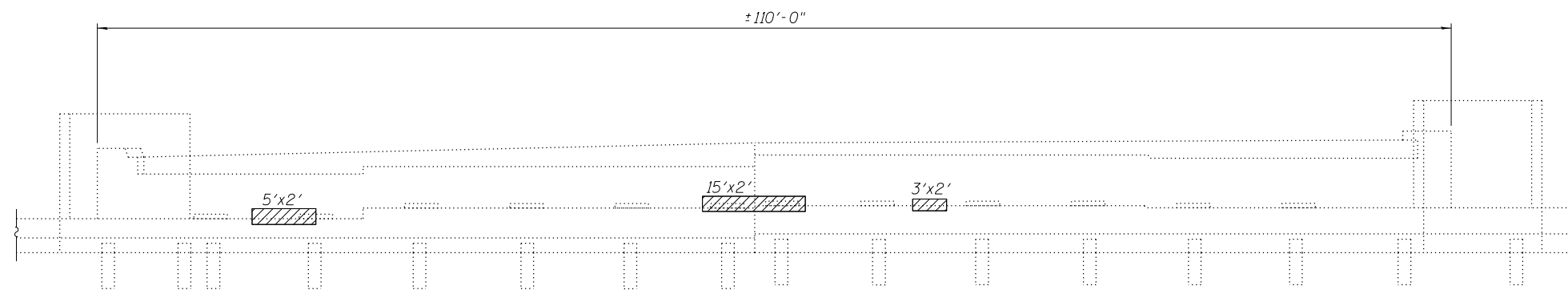
SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	16

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	22
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



WEST ABUTMENT ELEVATION
Looking West



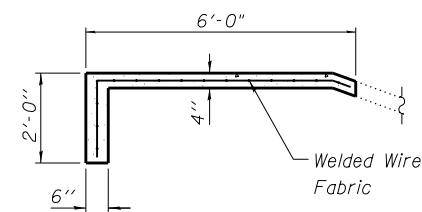
EAST ABUTMENT ELEVATION
Looking East

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	46
	Slope Wall Removal	Sq. Yd.	10
	Slope Wall, 4"	Sq. Yd.	10
	Porous Granular Embankment	Cu. Yd.	10

Notes:

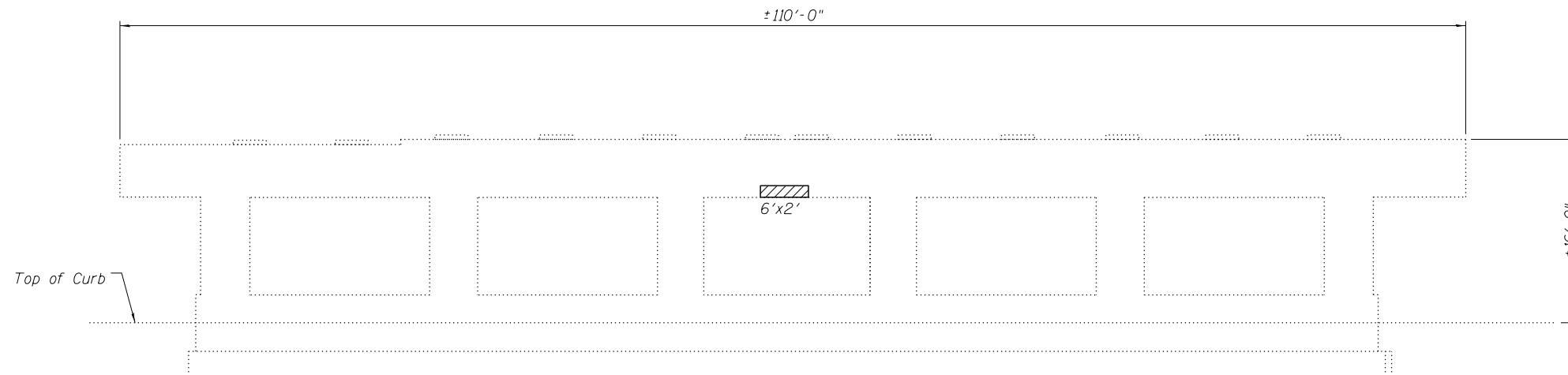
- Slope wall shall be reinforced with welded wire fabric, 6"x6"-W4.0xW4.0, weighing 58 Lbs. per 100 Sf. Cost included in the pay item Slope Wall, 4".
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Slope Wall Removal.
- Existing and new welded wire fabric must be lapped a minimum of 6".
- Porous Granular Embankment shall be used to in-fill void areas encountered beneath Slope Wall.



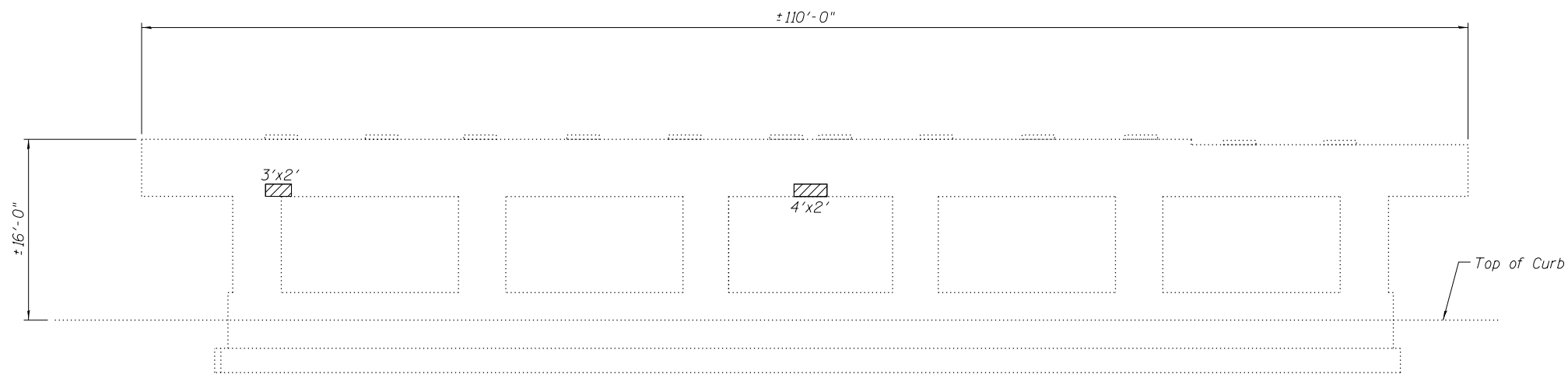
SECTION A - A

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 23
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	




PIER 2 ELEVATION
Looking West



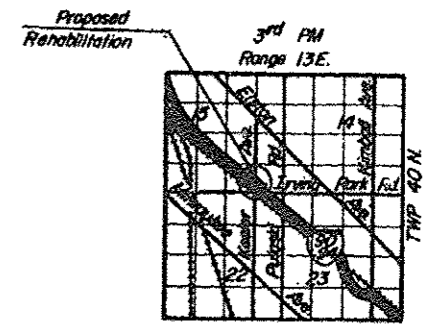
PIER 2 ELEVATION
Looking East

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	26

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. R.T.E. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



LOCATION SKETCH

SCOPE OF WORK

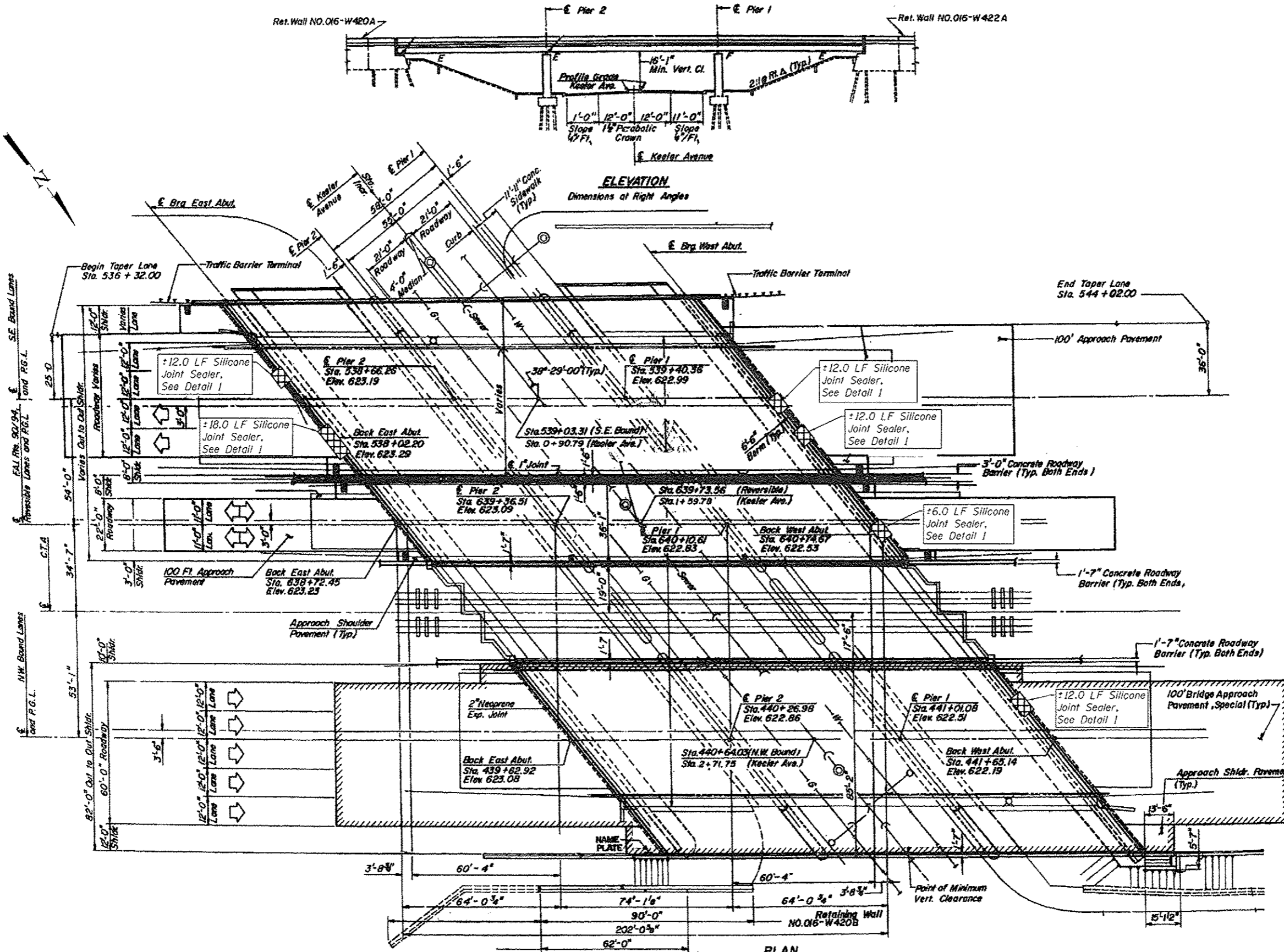
- I. Expansion Joint Repairs

DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications
 for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

- Joint Repair Area
- ±10.0 LF Scope of Work

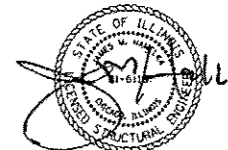


PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER KEELER AVE (SN 016-0113 AND 016-0114)

SHEET NO. 51 OF 52 SHEETS



COLLINS ENGINEERS, INC.
 JAMES M. HAMELKA
 NO. 01-6116
 EXPIRES 11-30-2014

COLLINS ENGINEERS, INC.
 123 N. Wacker Dr.
 Suite 300
 Chicago, IL 60606
 Phone: 312.461.7000
 Fax: 312.461.7001
 www.collinseng.com

USER NAME	DESIGNED	REVISED
AMS	- AMS	-
AMS	-	-
JMH	-	-
JMH	-	-
JMH	-	-

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	25
				CONTRACT NO.
				60V58
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

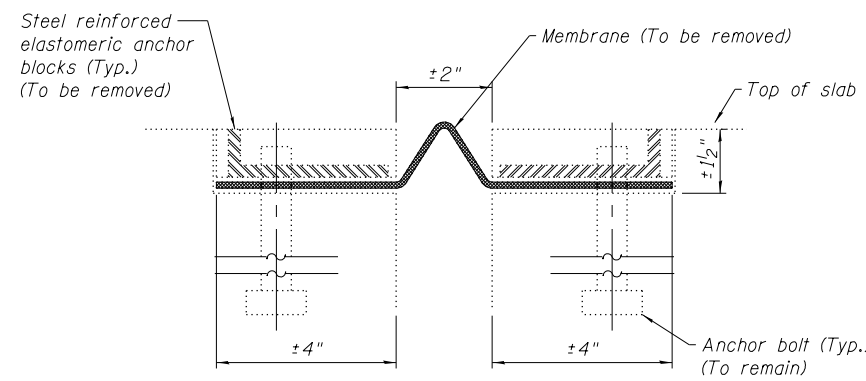
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

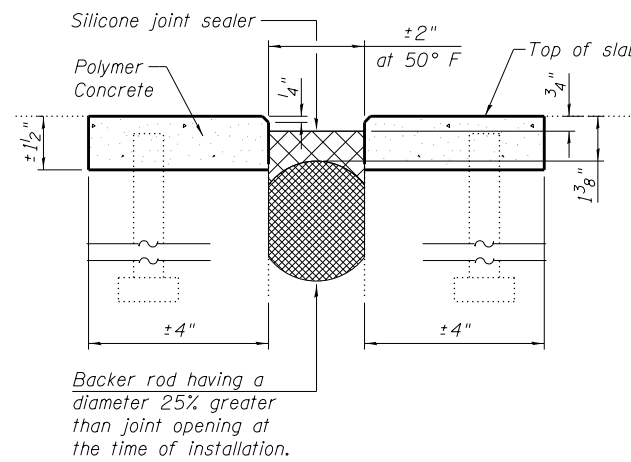
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	72.0
Polymer Concrete	Cu. Ft.	6.0



SECTION THROUGH EXISTING NEOPRENE JOINT

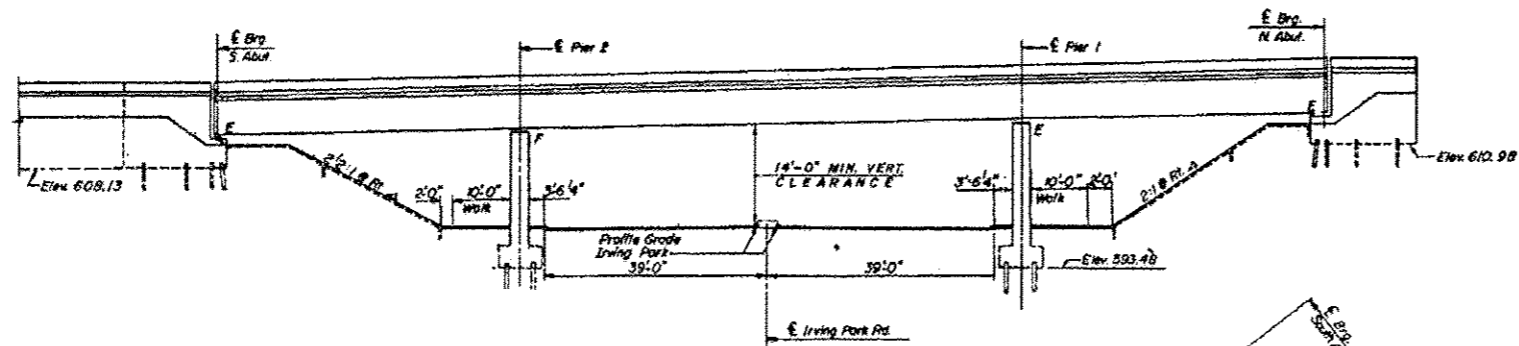


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

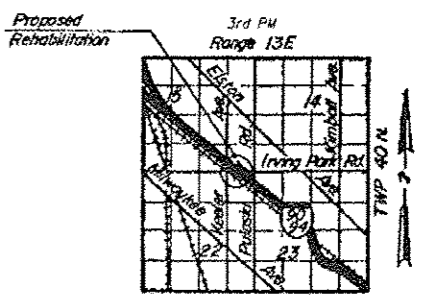
DETAIL 1

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



ELEVATION
Looking West
Dimensions of Right Angle



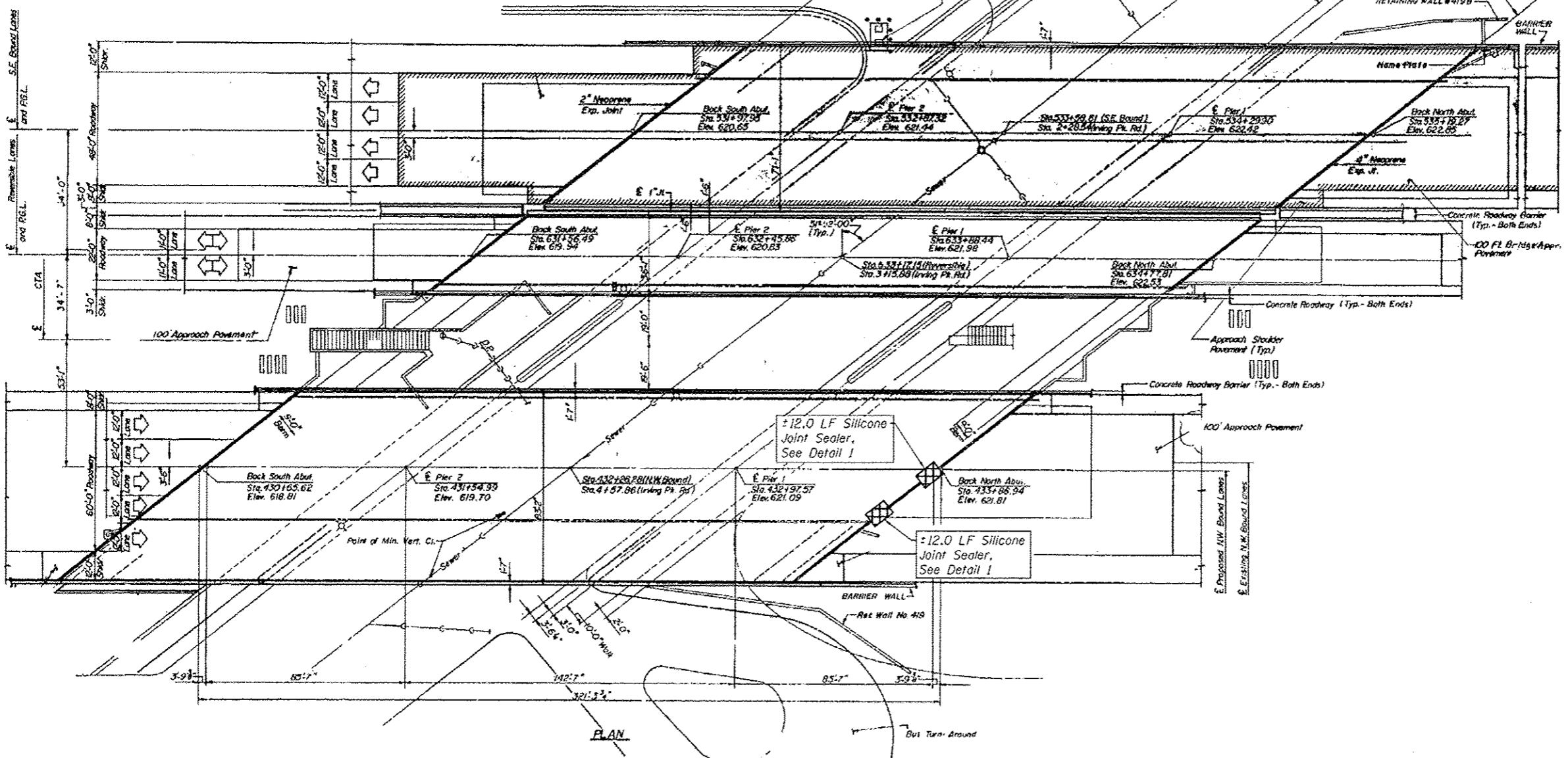
LOCATION SKETCH

SCOPE OF WORK

- 1. Expansion Joint Repairs

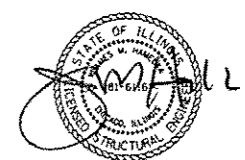
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges (17th Edition)

LOADING HS20-44



PLAN

- LEGEND**
- Joint Repair Area
 - ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS
1223 N. Poplar Dr.
Chicago, IL 60628
Tel: 312.771.7000
Fax: 312.771.7000
www.collinseng.com

USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER IRVING PARK RD (SN 016-0115 & 016-0116)
SHEET NO. 51 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	27
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

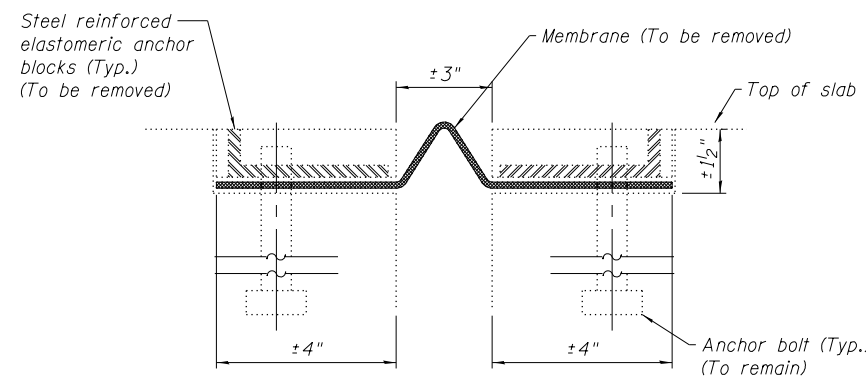
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

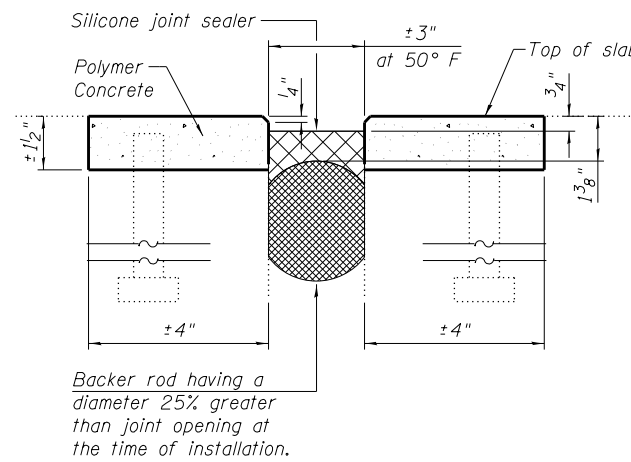
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 3".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 3"	Foot	24.0
Polymer Concrete	Cu. Ft.	2.0



**SECTION THROUGH
EXISTING NEOPRENE JOINT**

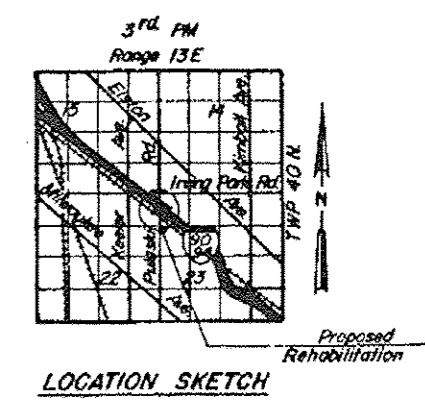
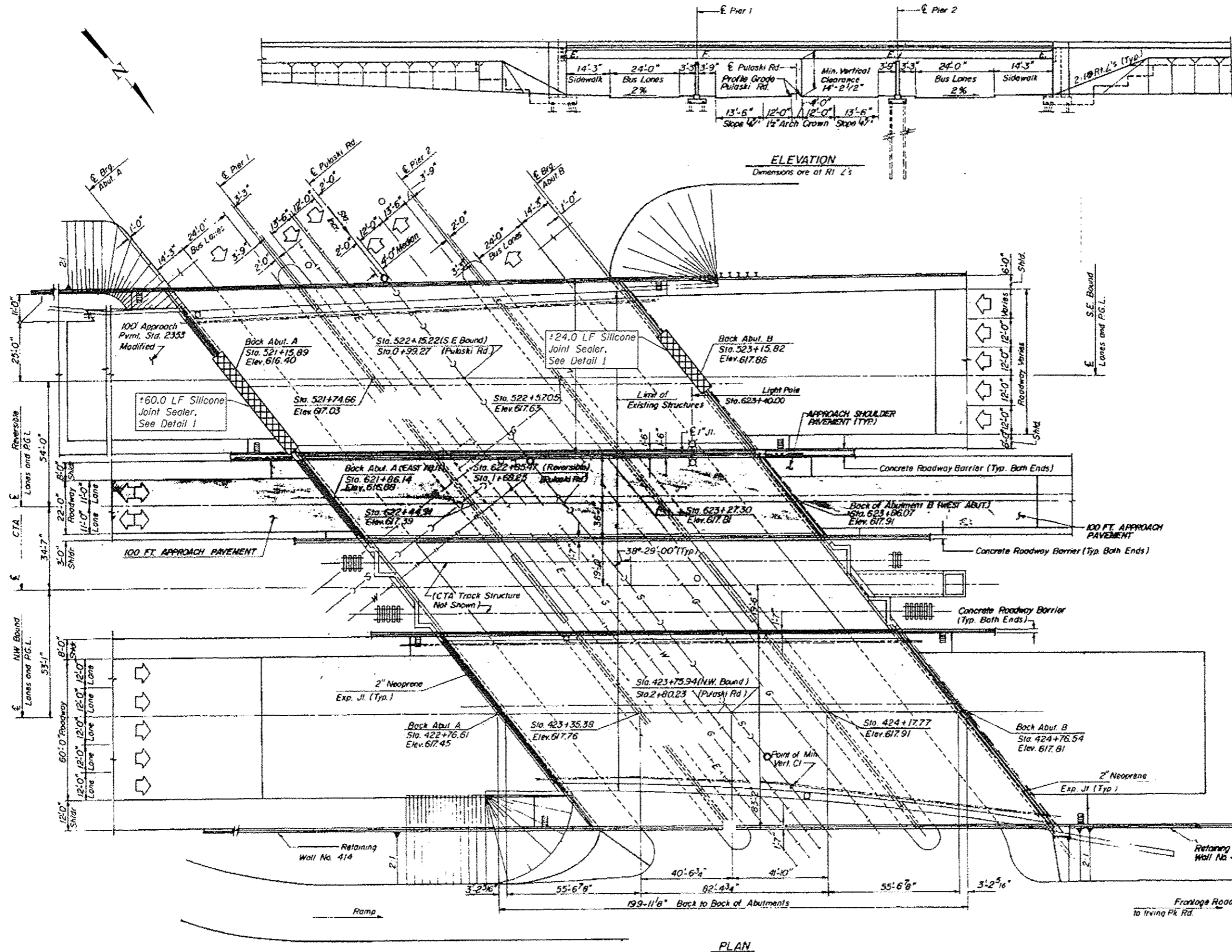


**SECTION THROUGH PROPOSED
SILICONE JOINT SEALER**

DETAIL 1

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



SCOPE OF WORK

1. Expansion Joint Repairs
2. Substructure Repairs

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

- Joint Repair Area
- Scope of Work



COLLINS ENGINEERS, INC.
 JAMES M. HAMELKA
 NO. 81-6116
 EXPIRES 11-30-2014

PLAN



USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 I-90/94 OVER PULASKI RD (SN 016-0117 AND 016-0118)
 SHEET NO. 51 OF 56 SHEETS

F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	29
			CONTRACT NO. 60V58	
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

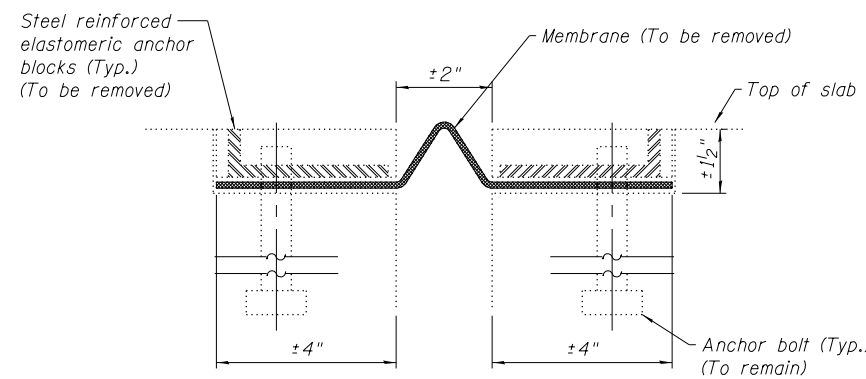
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details
- S3. Abutment Repairs - N.W. Bound Lanes
- S4. Abutment Repairs - S.E. Bound & Reverse Lanes
- S5. Pier 1 Repairs - S.E. Bound & Reverse Lanes
- S6. Pier 2 Repairs - S.E. Bound & Reverse Lanes

GENERAL NOTES

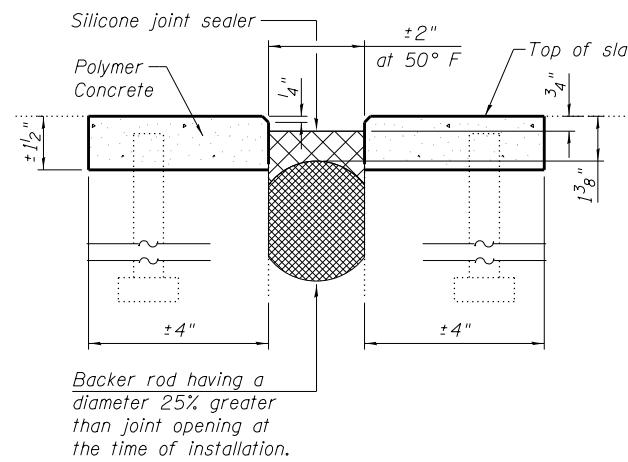
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	84.0
Polymer Concrete	Cu. Ft.	7.0
Structural Repair of Concrete (Depth Less Than or Equal To 5")	Sq. Ft.	231
Temporary Shoring and Cribbing	Each	5



SECTION THROUGH EXISTING NEOPRENE JOINT

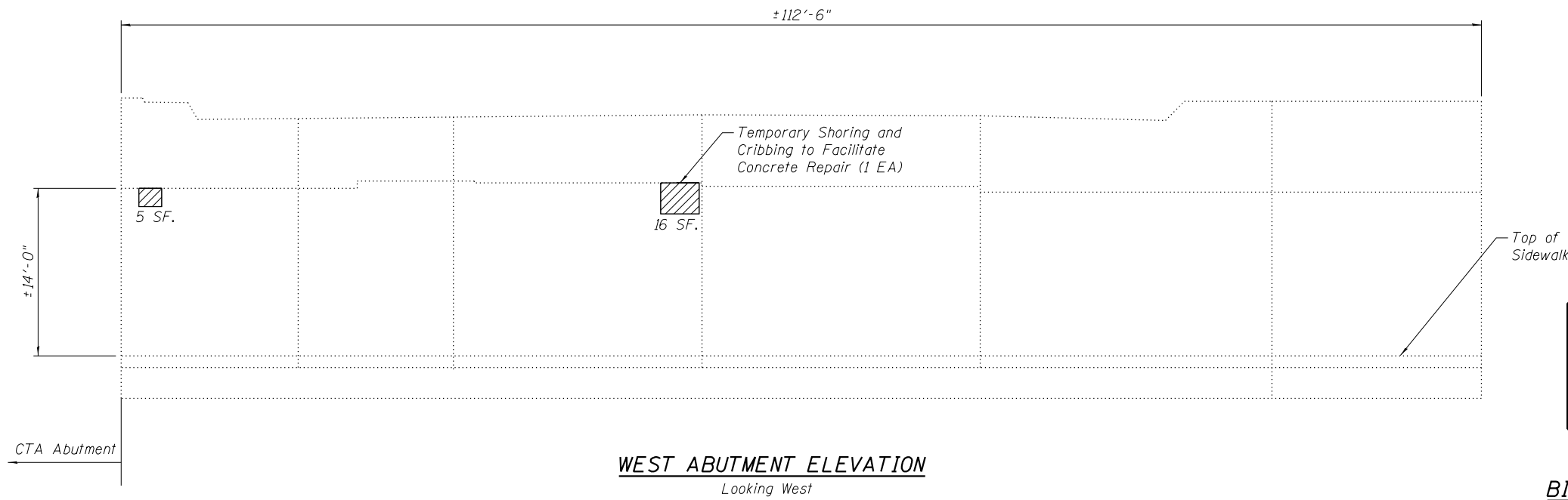
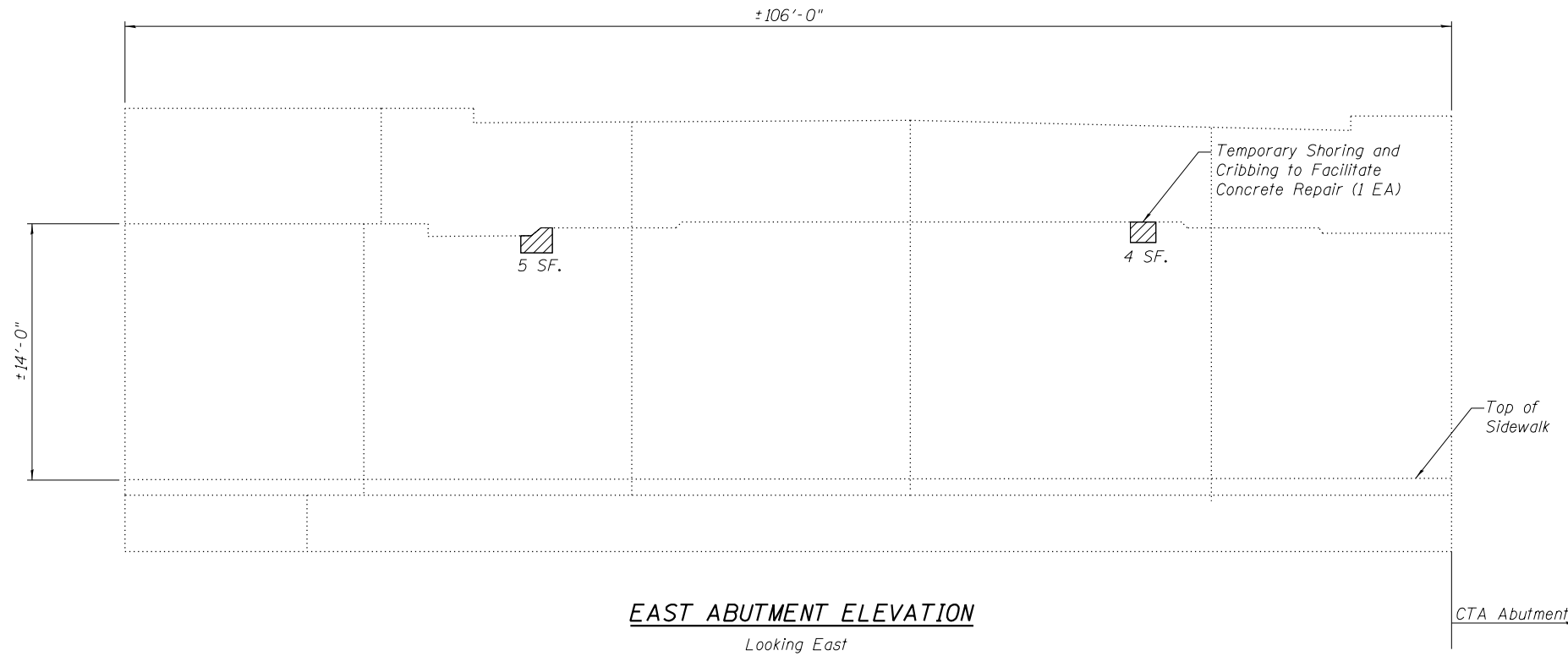


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1


USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



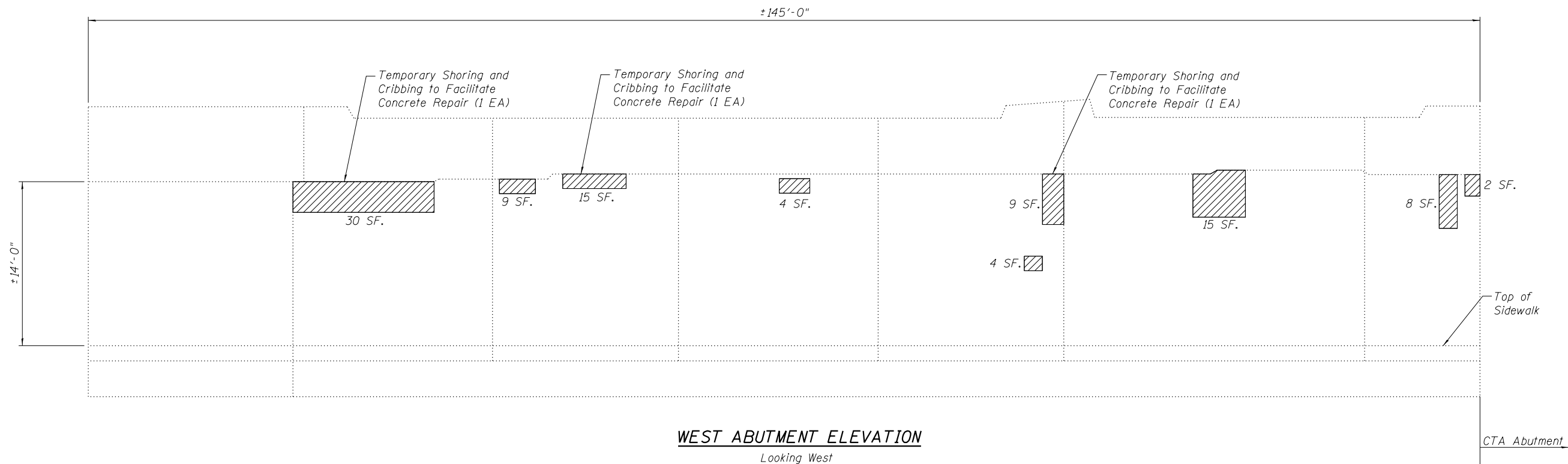
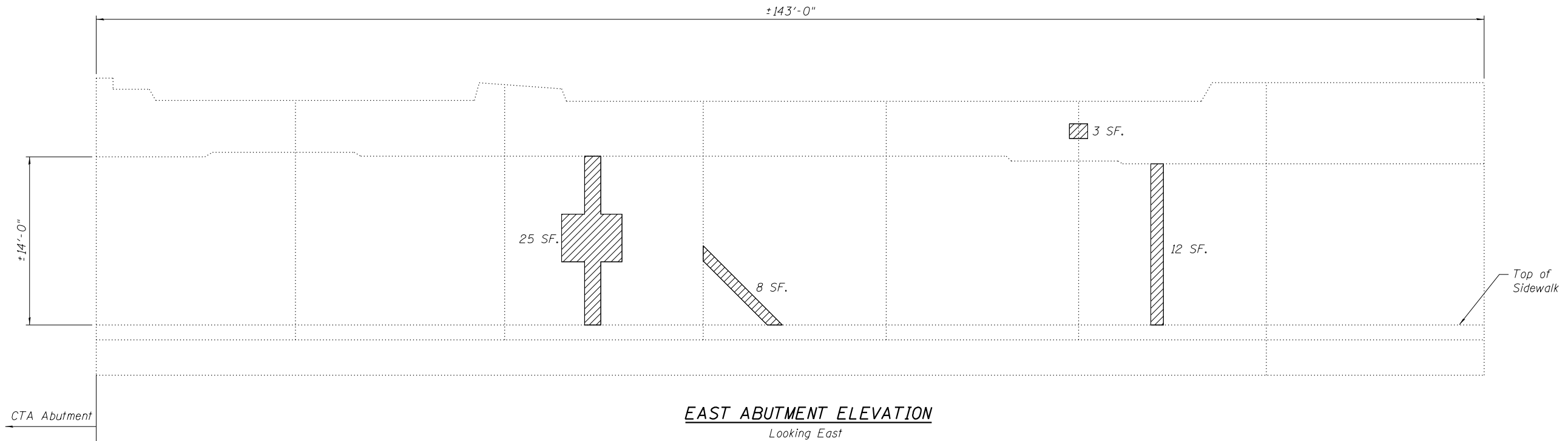
SN 016-0117 INTERIOR GIRDER REACTION TABLE			
		East Abut.	West Abut.
R _{DL}	(k)	26.0	18.0
R _{LL}	(k)	39.0	28.0
R _I	(k)	10.5	7.7
R _{Total}	(k)	75.5	53.7

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	30
	Temporary Shoring and Cribbing	Each	2

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - DR	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

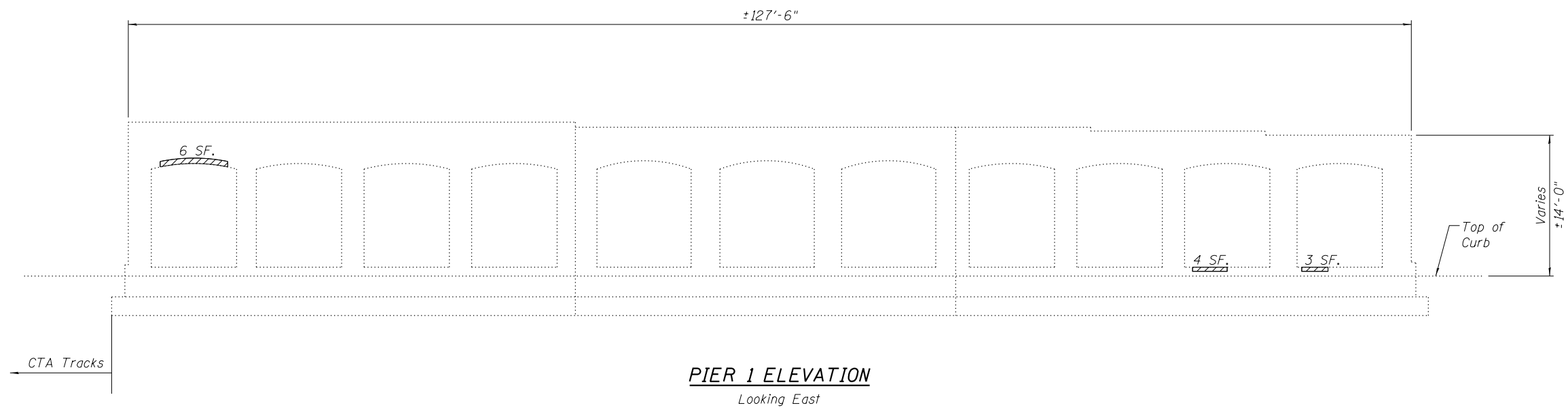


SN 016-0118
INTERIOR GIRDER REACTION TABLE

		West Abut.	
R_{DL}	(k)	22.0	
R_{LL}	(k)	39.0	
R_I	(k)	10.8	
R_{Total}	(k)	71.8	

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	144
	Temporary Shoring and Cribbing	Each	3

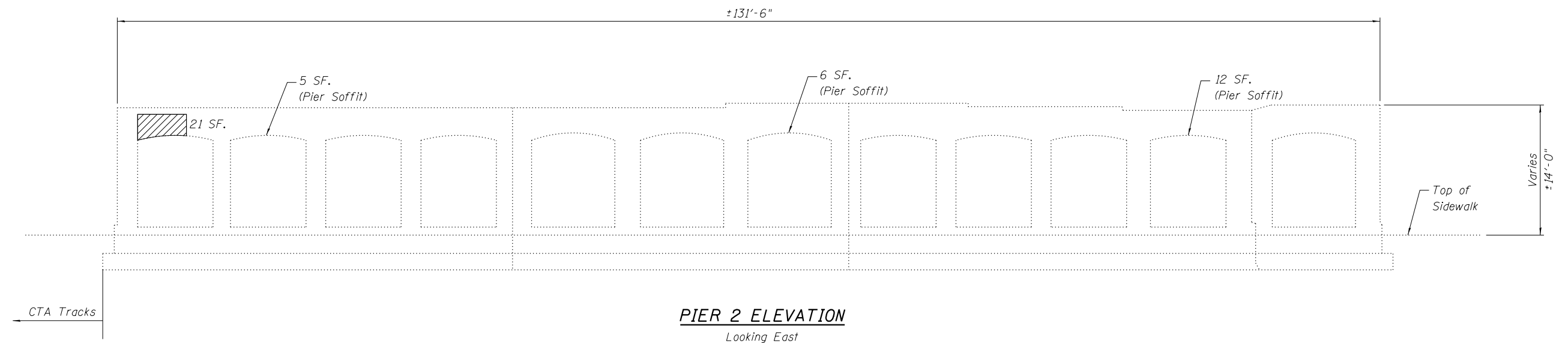


BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
▨	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	13

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

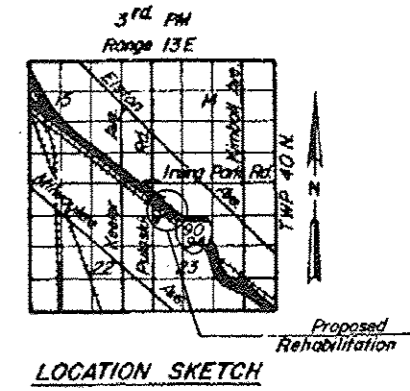
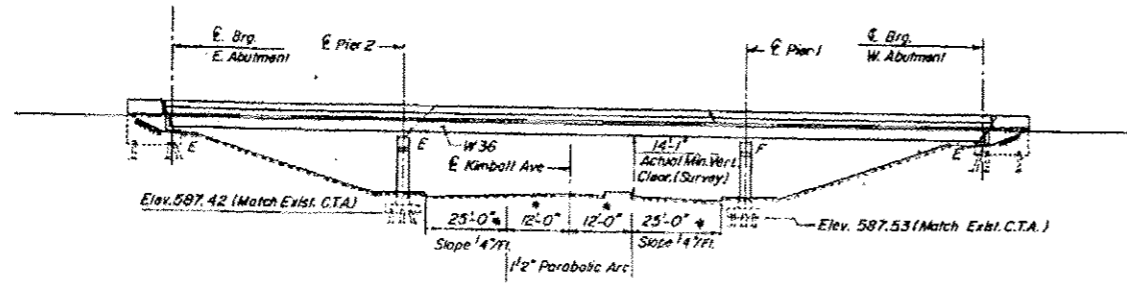
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	33
CONTRACT NO.			60V58	
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
▨	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	44

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - DR	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

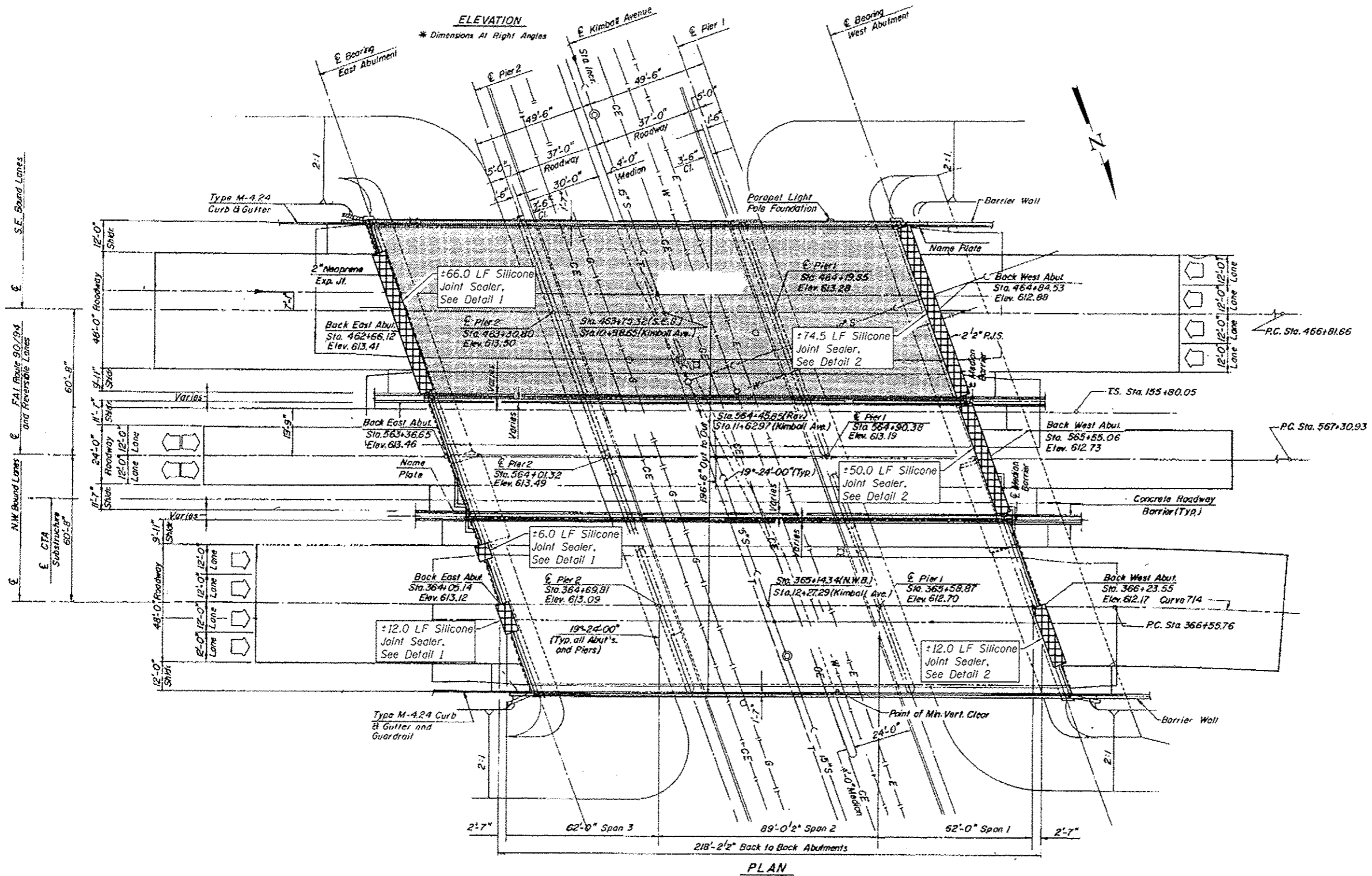


SCOPE OF WORK
1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS, INC.
123 N. Main St., Suite 200
Chicago, IL 60601
Tel: (312) 123-4567
Fax: (312) 123-4568
www.collinseng.com

USER NAME *	DESIGNED - AMS	REVISED -
PLOT SCALE *	DRAWN - AMS	REVISED -
PLOT DATE *	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER KIMBALL AVE (SN 016-0120 AND 016-1109)
SHEET NO. 51 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	35
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

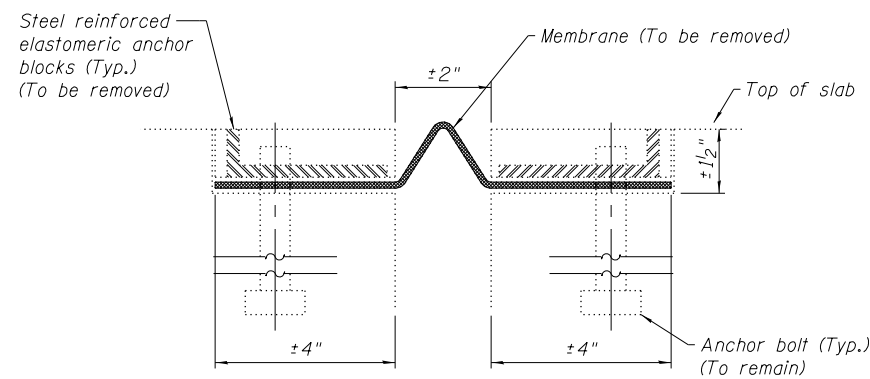
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

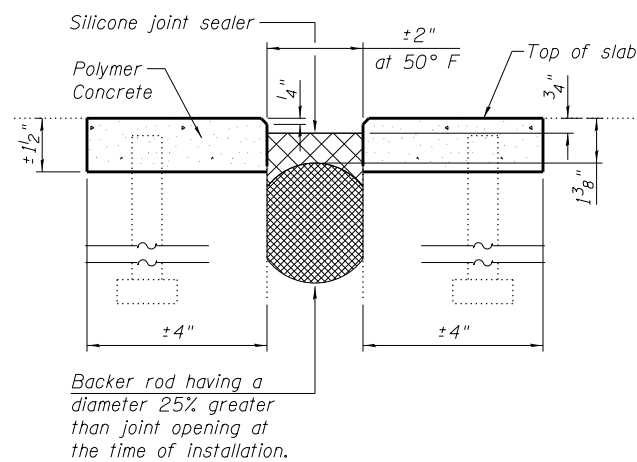
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 1 3/4" or Silicone Joint Sealer 2", based on the proposed joint repairs.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

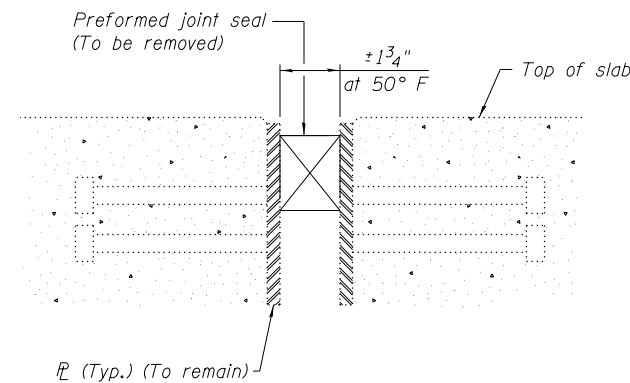
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 1 3/4"	Foot	136.5
Silicone Joint Sealer, 2"	Foot	84.0
Polymer Concrete	Cu. Ft.	7.0



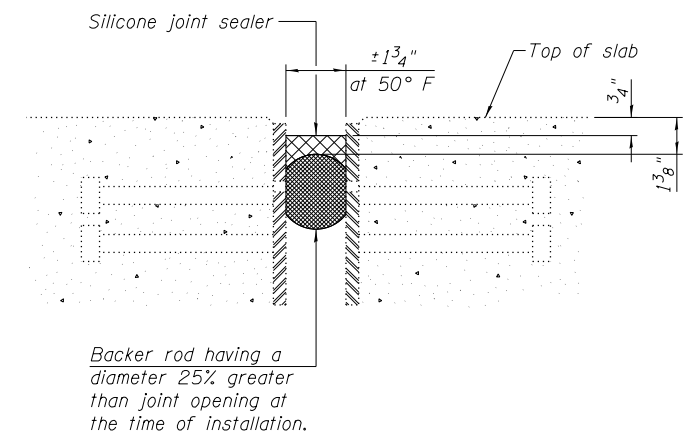
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISITING PJS JOINT



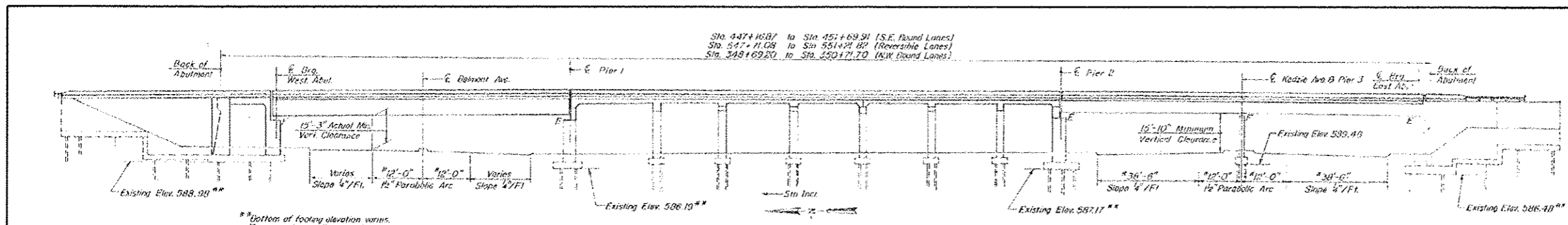
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



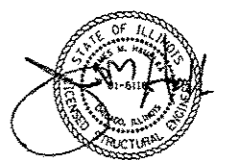
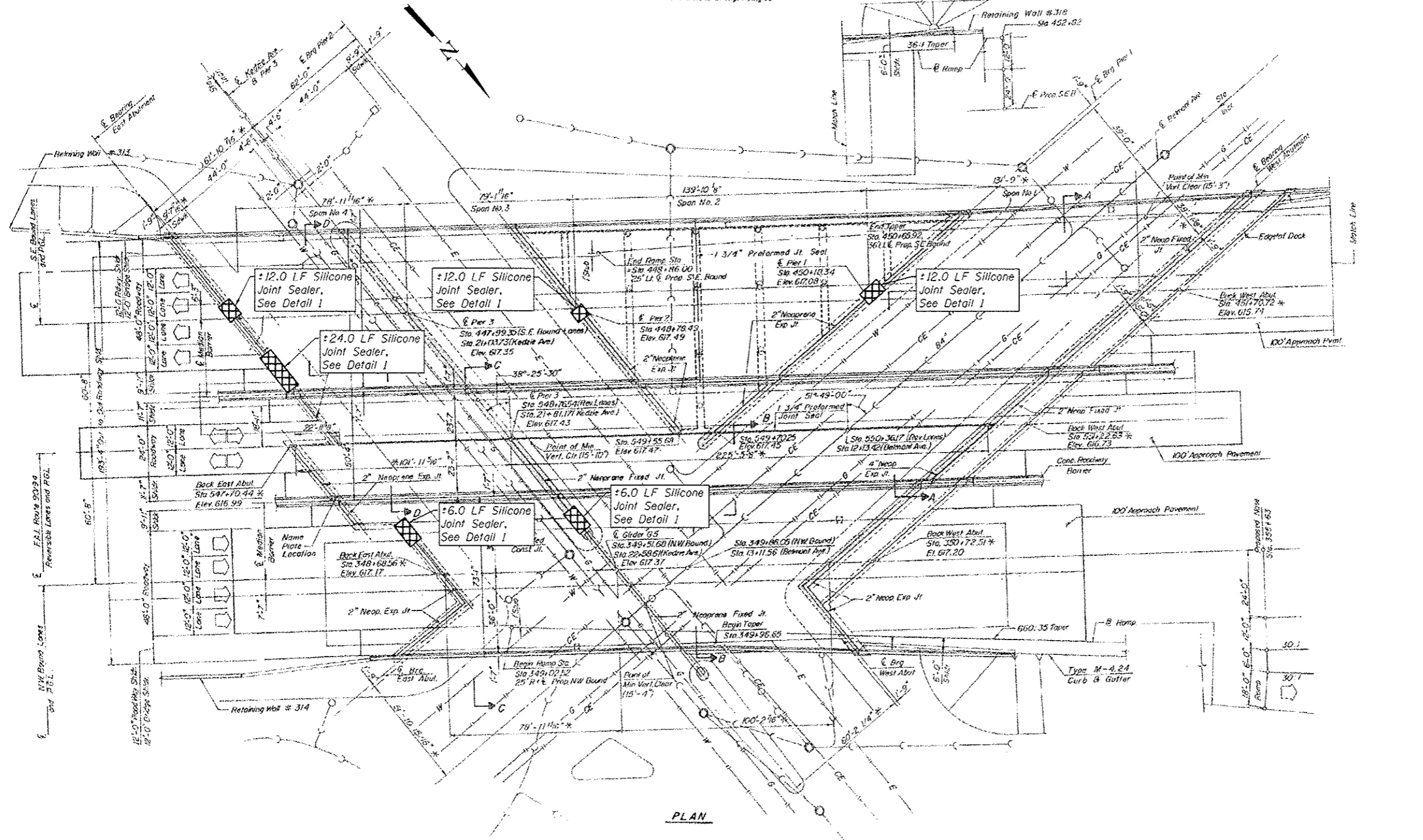
SCOPE OF WORK
1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

 Joint Repair Area
 ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014



USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER KEDZIE & BELMONT SN 016-0121 & 016-0122

F.A.T. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 37
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

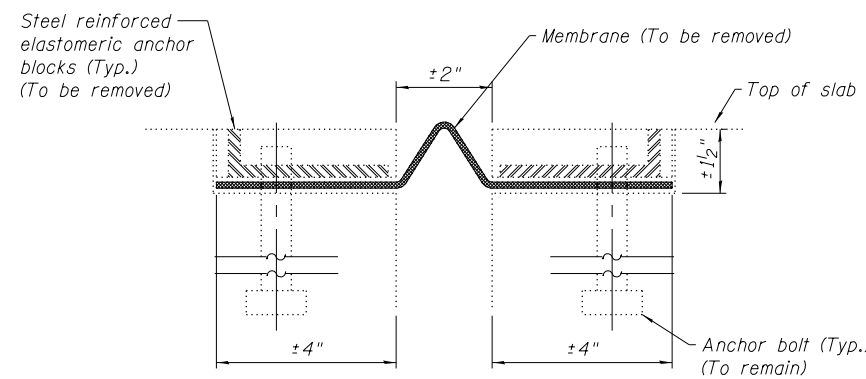
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

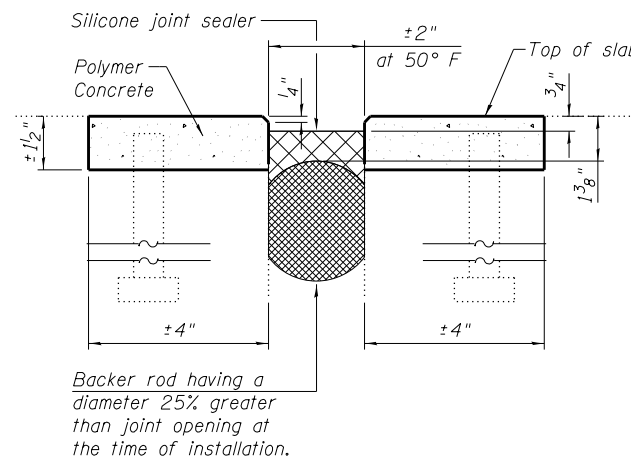
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	72.0
Polymer Concrete	Cu. Ft.	6.0



SECTION THROUGH EXISTING NEOPRENE JOINT

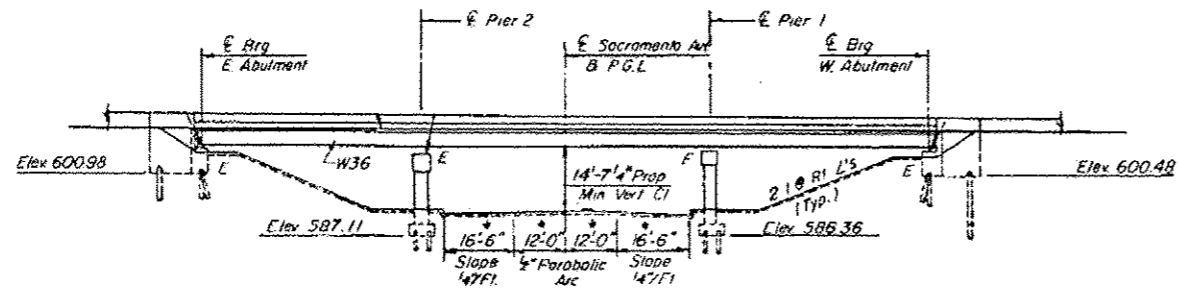


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

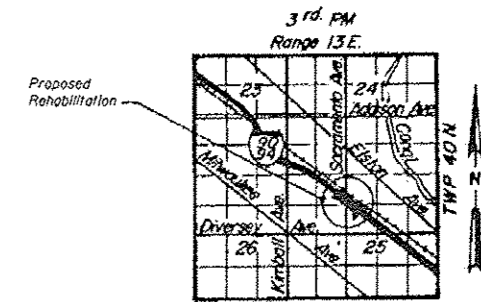
DETAIL 1

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



ELEVATION
*Dimensions At Right Angles



LOCATION SKETCH

SCOPE OF WORK

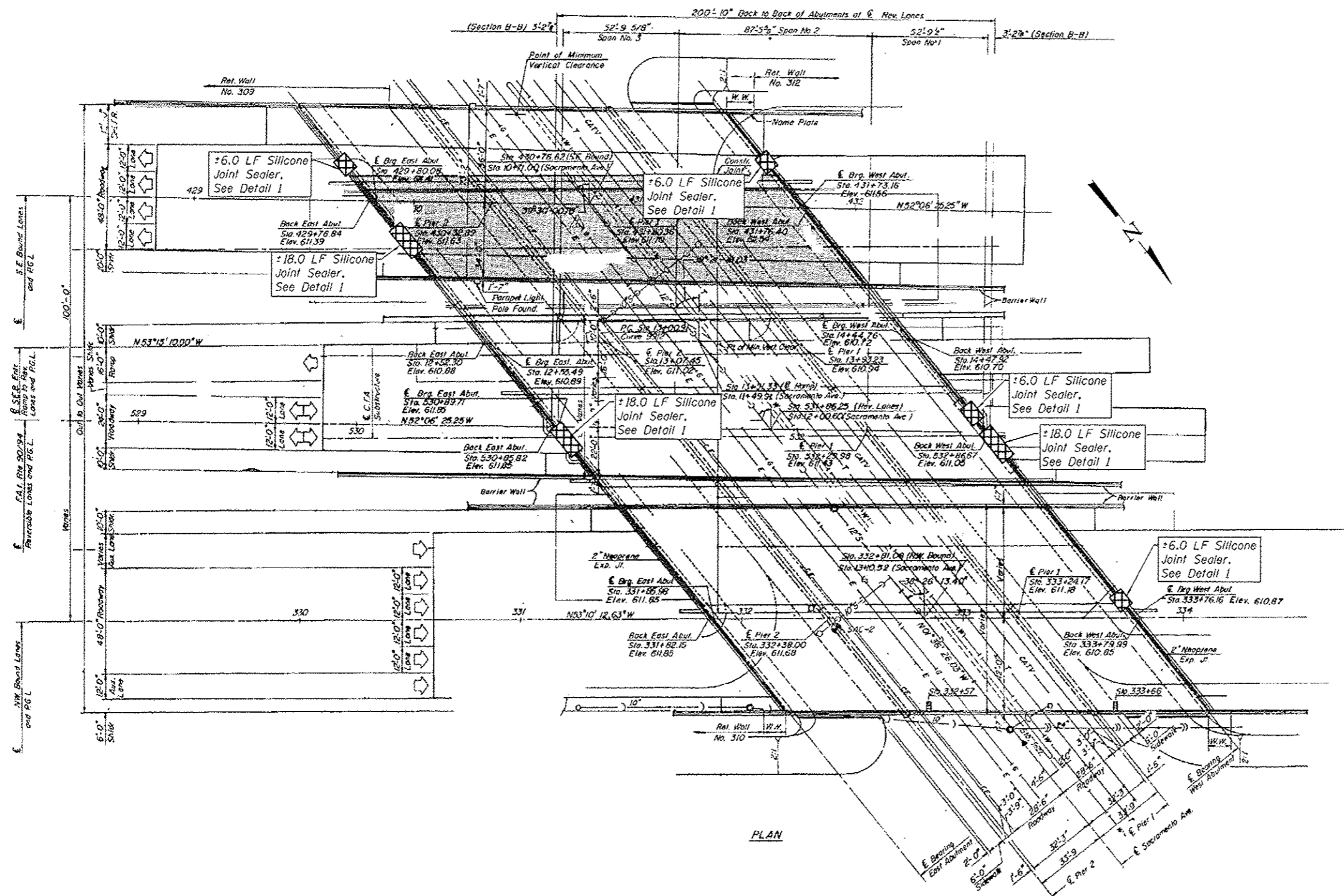
1. Expansion Joint Repairs
2. Substructure Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges (17th Edition)

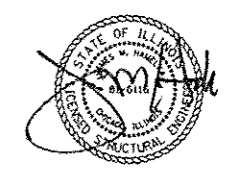
LOADING HS20-44

LEGEND

- Joint Repair Area
- ±10.0 LF Scope of Work



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014



USER NAME	DESIGNED - AMS	REVISED -
PLOT SCALE	DRAWN - AMS	REVISED -
PLOT DATE	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER SACRAMENTO AVE (SN 016-0123 & 016-1071)
SHEET NO. 51 OF 56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	39
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

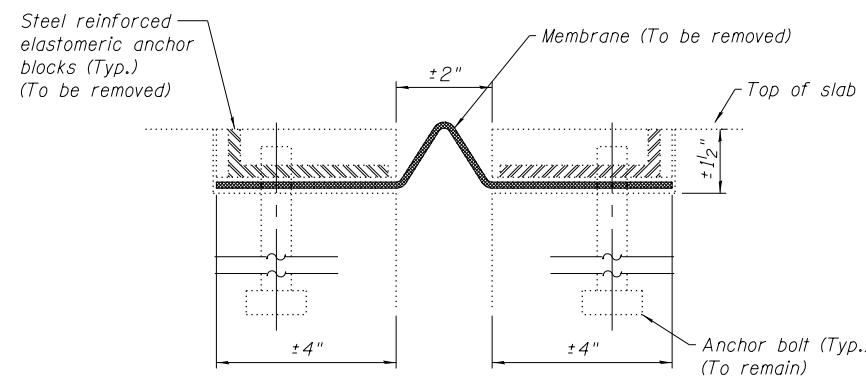
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details
- S3. Abutment Repairs- N.W. Bound Lanes
- S4. Abutment Repairs - S.E. Bound & Rev. Lanes
- S5. Slopewall Repairs - N.W. Bound Lanes
- S6. Slopewall Repairs - S.E. Bound & Rev. Lanes

GENERAL NOTES

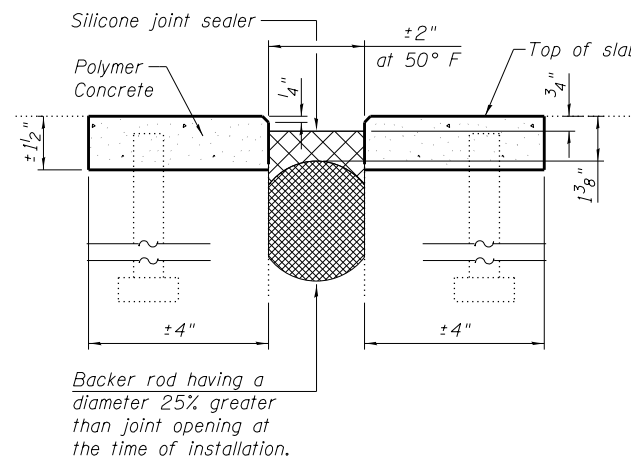
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	78.0
Polymer Concrete	Cu. Ft.	6.5
Structural Repair of Concrete (Depth Equal To or Less Than 5")	Sq. Ft.	205
Slopewall Removal	Sq. Yd.	174
Slopewall, 4"	Sq. Yd.	174
Porous Granular Embankment	Cu. Yd.	20



SECTION THROUGH EXISTING NEOPRENE JOINT

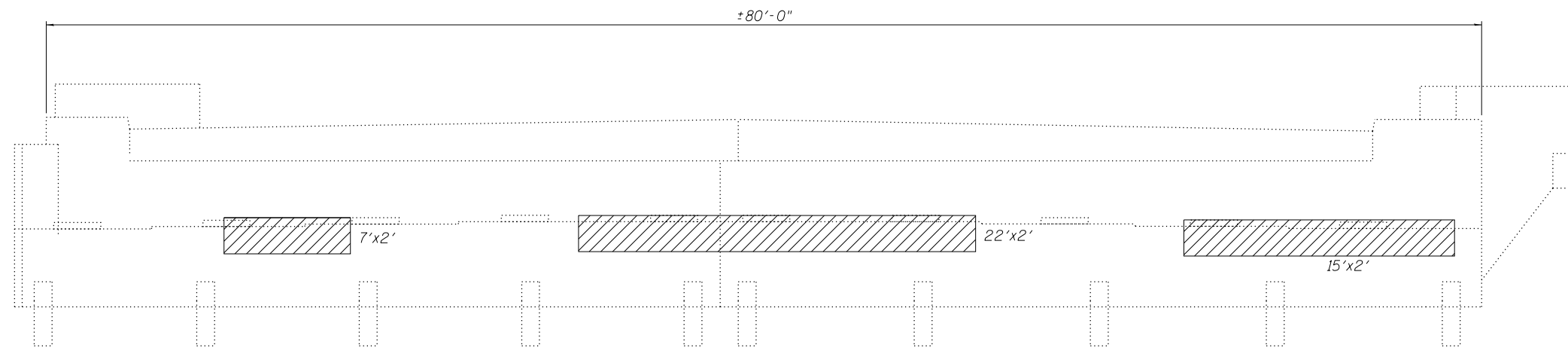


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1


USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



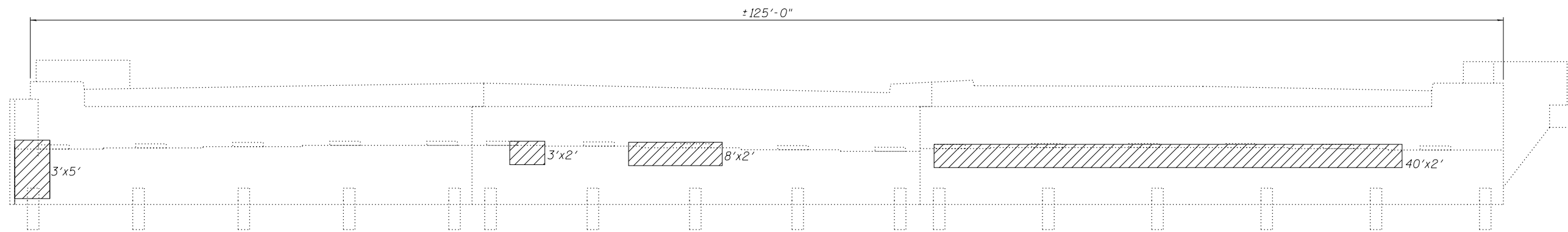
EAST ABUTMENT ELEVATION
Looking East

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	88


USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	41
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



WEST ABUTMENT ELEVATION
Looking West

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	117

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

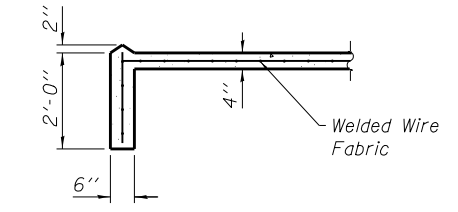
F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 42
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

BILL OF MATERIAL

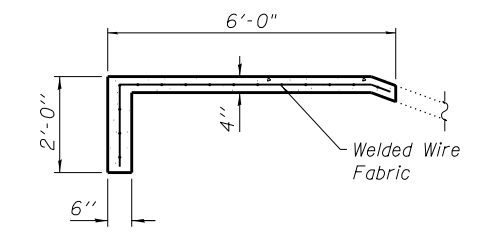
Item	Unit	Total
Slope Wall Removal	Sq. Yd.	106
Slope Wall, 4"	Sq. Yd.	106
Porous Granular Embankment	Cu. Yd.	10

Notes:

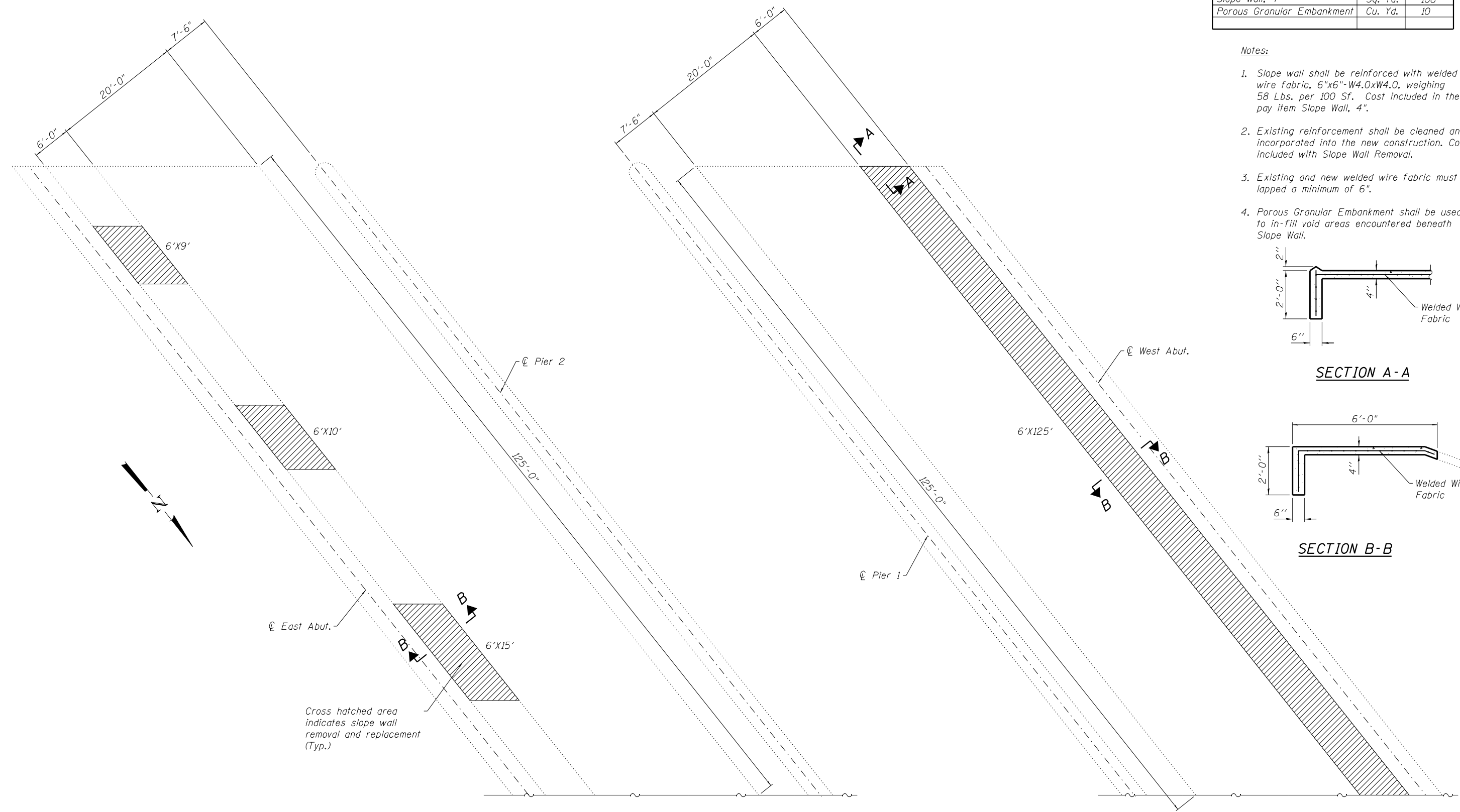
- Slope wall shall be reinforced with welded wire fabric, 6"x6"-W4.0xW4.0, weighing 58 Lbs. per 100 Sf. Cost included in the pay item Slope Wall, 4".
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Slope Wall Removal.
- Existing and new welded wire fabric must be lapped a minimum of 6".
- Porous Granular Embankment shall be used to in-fill void areas encountered beneath Slope Wall.



SECTION A-A



SECTION B-B



Cross hatched area indicates slope wall removal and replacement (Typ.)

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

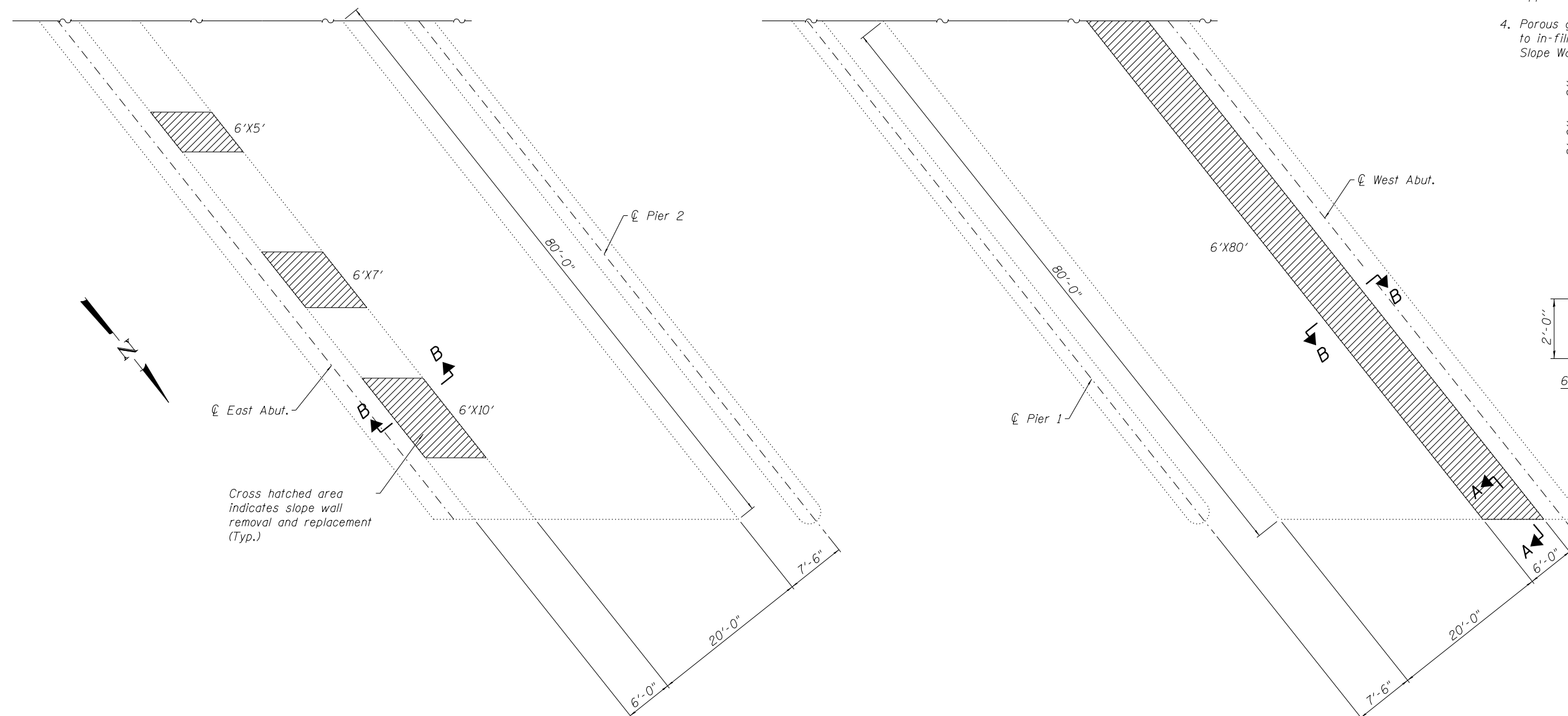
F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 43
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

BILL OF MATERIAL

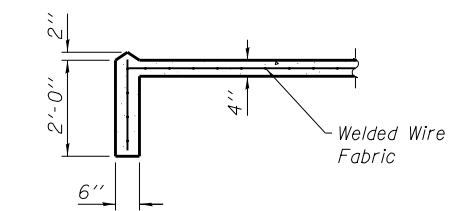
Item	Unit	Total
Slope Wall Removal	Sq. Yd.	68
Slope Wall, 4"	Sq. Yd.	68
Porous Granular Embankment	Cu. Yd.	10

Notes:

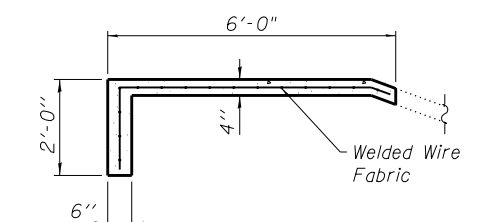
- Slope wall shall be reinforced with welded wire fabric, 6"x6"-W4.0xW4.0, weighing 58 Lbs. per 100 Sf. Cost included in the pay item Slope Wall, 4".
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Slope Wall Removal.
- Existing and new welded wire fabric must be lapped a minimum of 6".
- Porous granular embankment shall be used to in-fill void areas encountered beneath Slope Wall.



Cross hatched area indicates slope wall removal and replacement (Typ.)



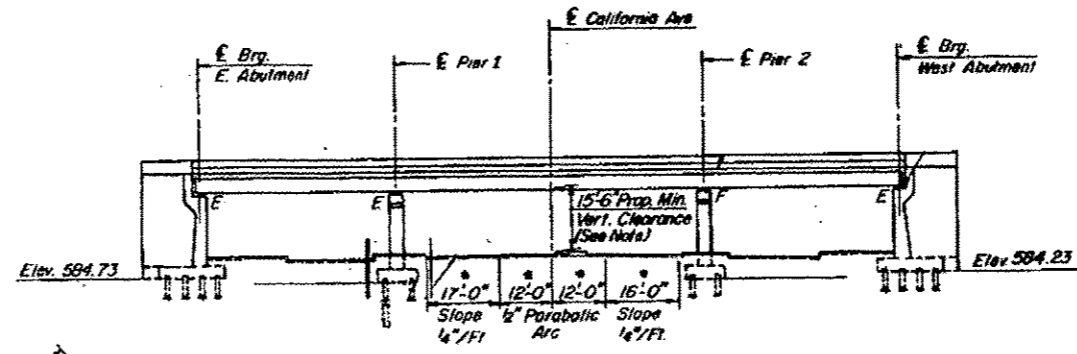
SECTION A-A



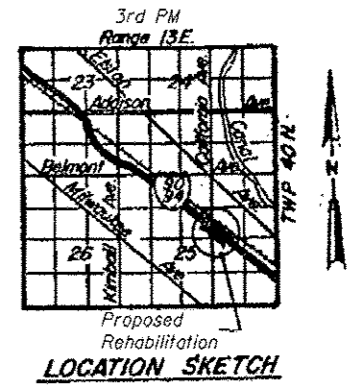
SECTION B-B

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	REVISIONS -	
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 44
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



NORTH ELEVATION
*Dimensions at Right Angles



SCOPE OF WORK

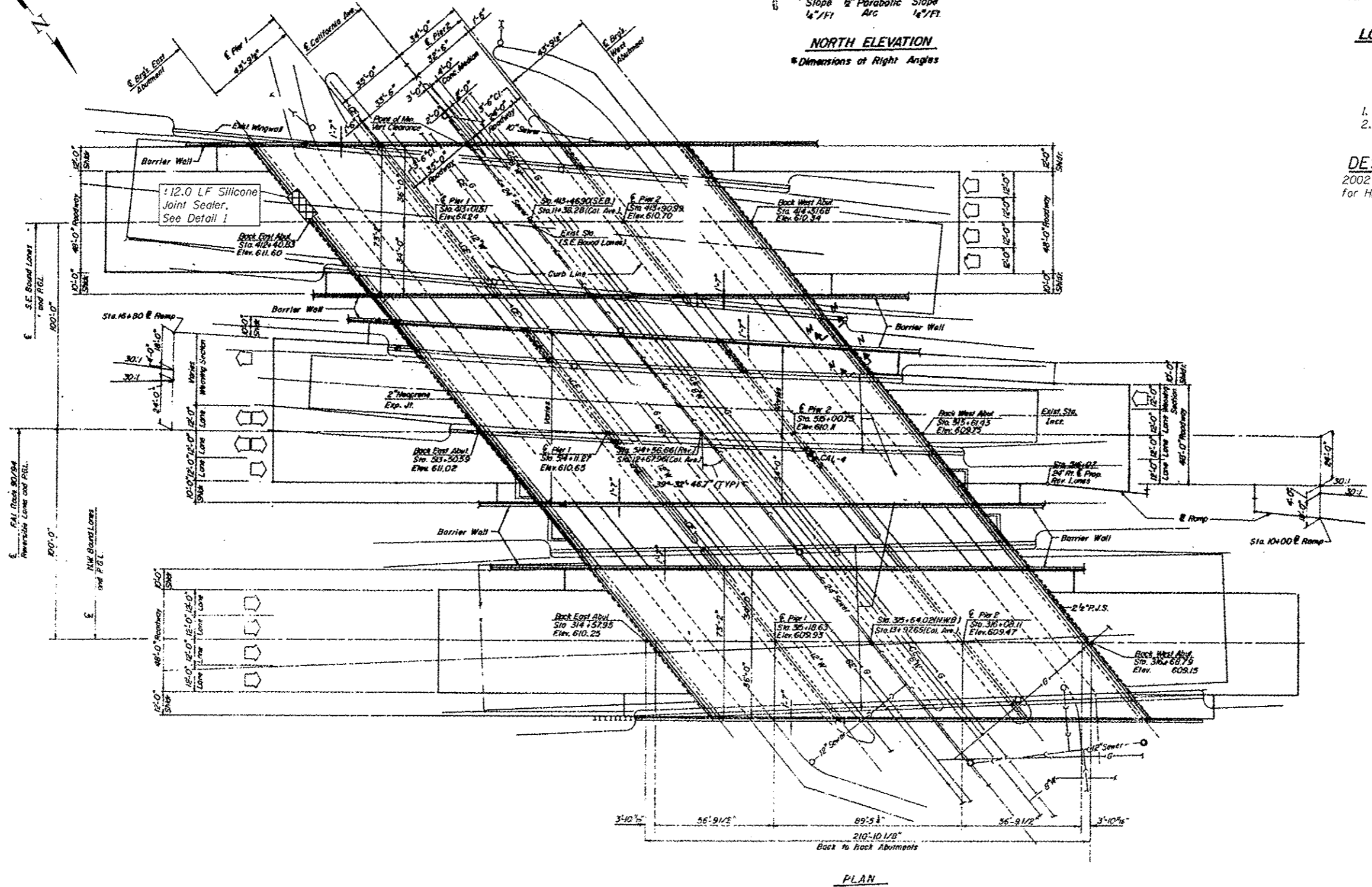
1. Expansion Joint Repairs
2. Substructure Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges (17th Edition)

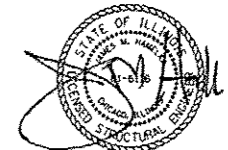
LOADING HS20-44

LEGEND

- Joint Repair Area
- 10.0 LF Scope of Work



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS, INC. 123 N. State St. Suite 300 Chicago, IL 60604 Tel: 312.771.7000 Fax: 312.771.7000 www.collinseng.com	USER NAME =	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION - I-90/94 OVER CALIFORNIA AVE. (SN 016-1077, 016-1076, & 016-0124)	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN - AMS	REVISED -			90/94	2012-055BR	COOK	107	45	
	PLOT DATE =	CHECKED - JMH	REVISED -			CONTRACT NO. 60V58					
		DATE - DECEMBER 2012	REVISED -			ILLINOIS FED. AID PROJECT					

INDEX OF SHEETS

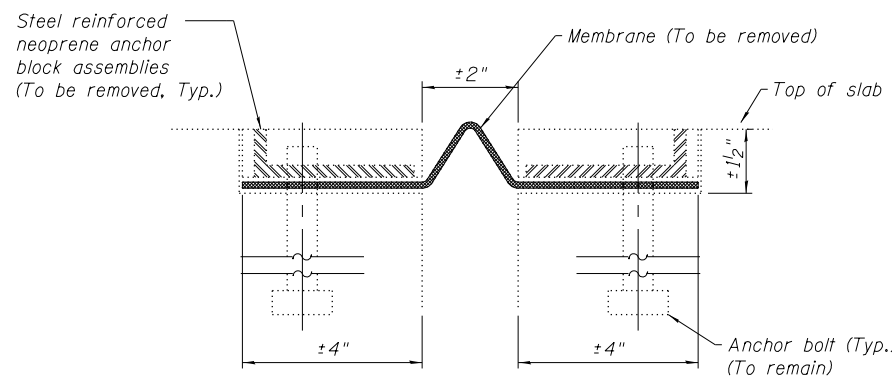
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

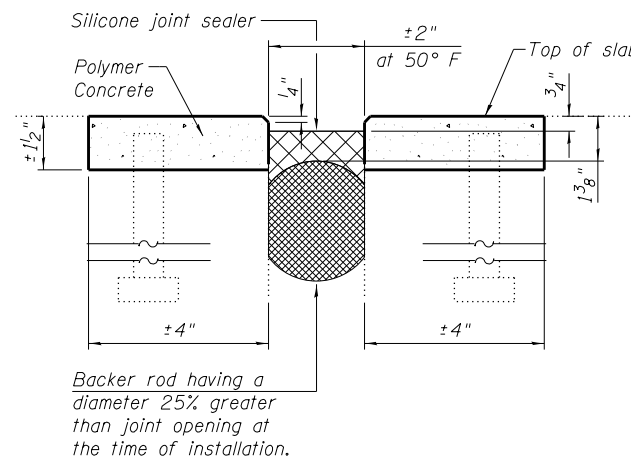
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer, 2".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	12.0
Polymer Concrete	Cu. Ft.	1.0



**SECTION THROUGH
EXISTING NEOPRENE JOINT**

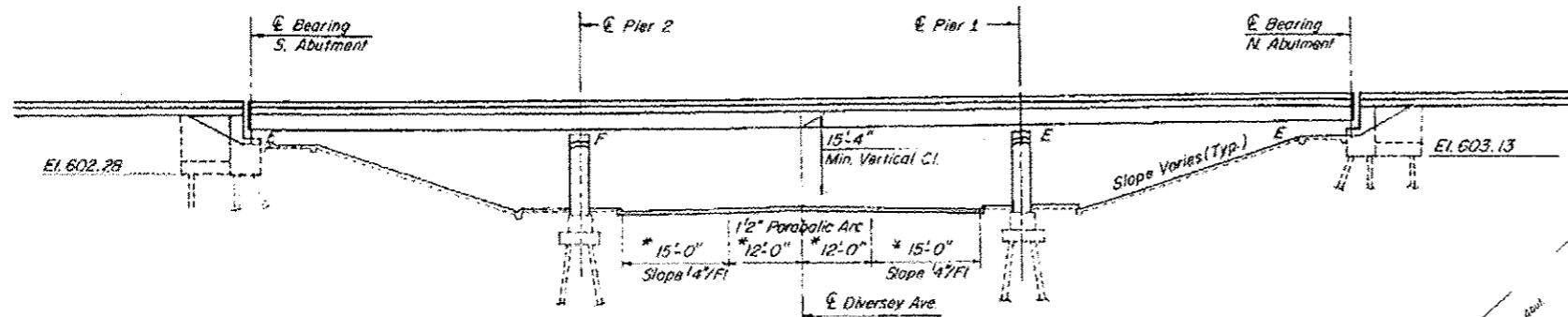


**SECTION THROUGH PROPOSED
SILICONE JOINT SEALER**

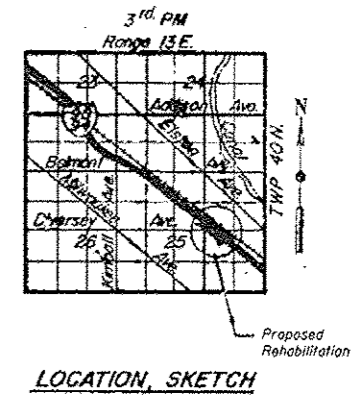
DETAIL 1

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

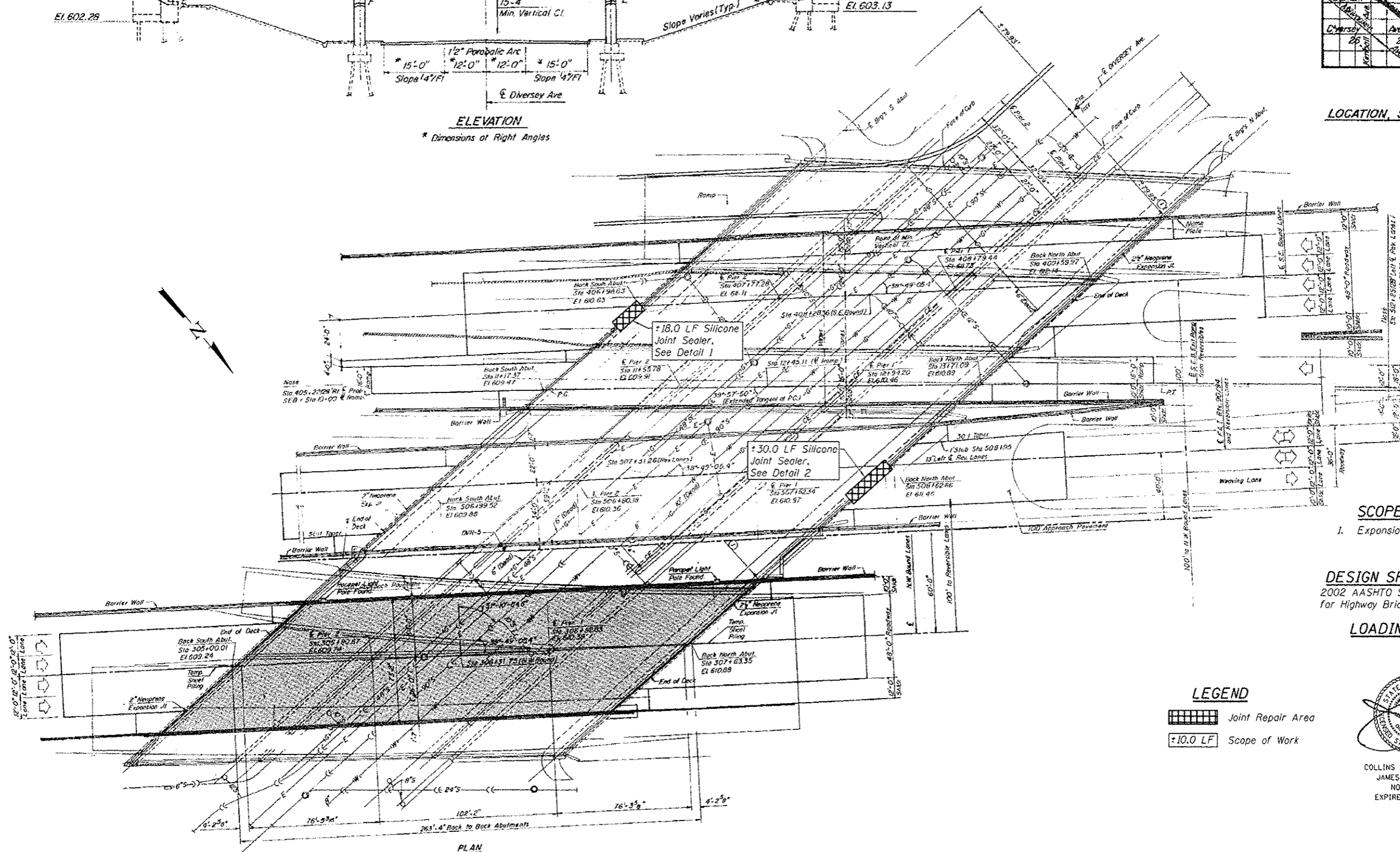
F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



ELEVATION
* Dimensions of Right Angles



LOCATION SKETCH



PLAN

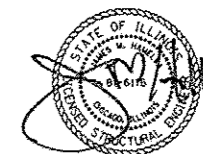
SCOPE OF WORK
1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

- Joint Repair Area
- ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS
123 N. Dear St.
Suite 200
Chicago, IL 60606
Tel: 312.104.1200
Fax: 312.104.1210
www.collinseng.com

USER NAME	DESIGNED - AMS	REVISED -
PLOT SCALE	DRAWN - AMS	REVISED -
PLOT DATE	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/4 OVER DIVERSEY SN 016-0125, 016-1073, & 016-1078

SHEET NO. S1 OF S2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0558R	COOK	107	47
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

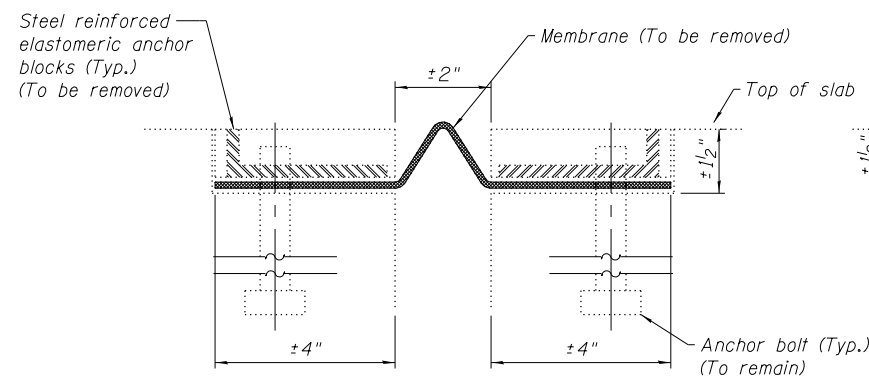
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

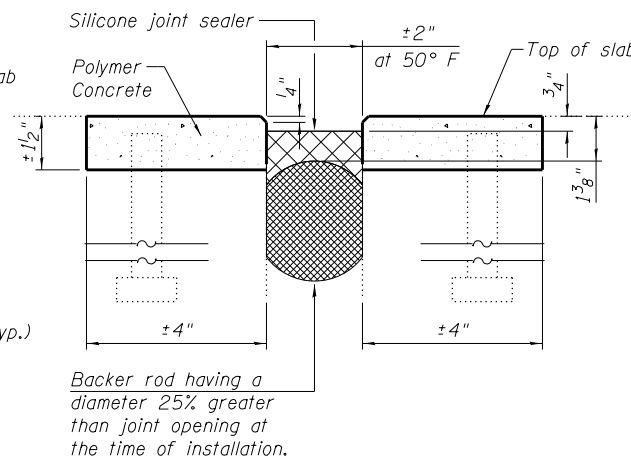
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2" or Silicone Joint Sealer 2½", based on the proposed repairs at the joint.
6. Cost for removal and disposal of existing loose/spalled polymer concrete at the North Joint is included in the cost of Polymer Concrete.
7. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

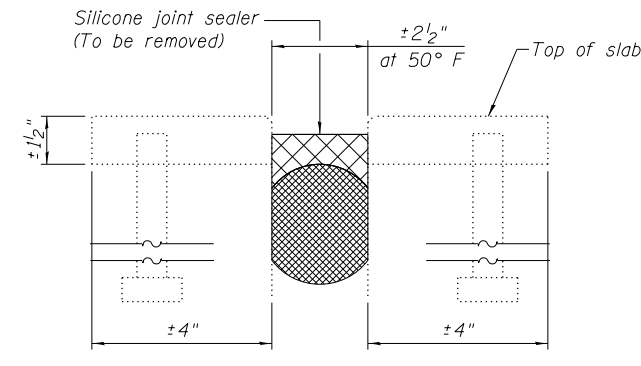
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	18.0
Silicone Joint Sealer, 2½"	Foot	30.0
Polymer Concrete	Cu. Ft.	4.9



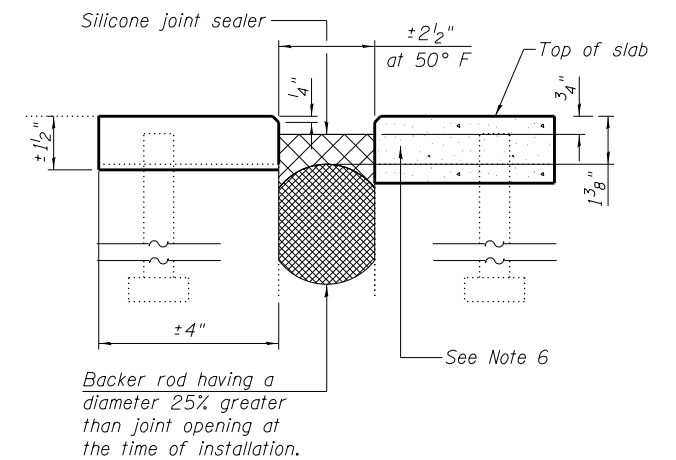
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISTING SILICONE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

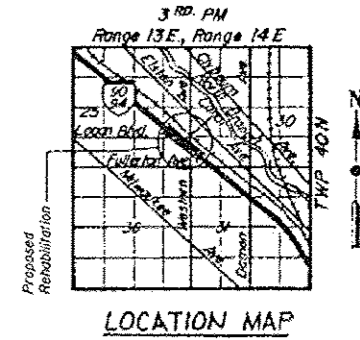
F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

SCOPE OF WORK


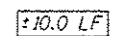
1. Expansion Joint Repairs

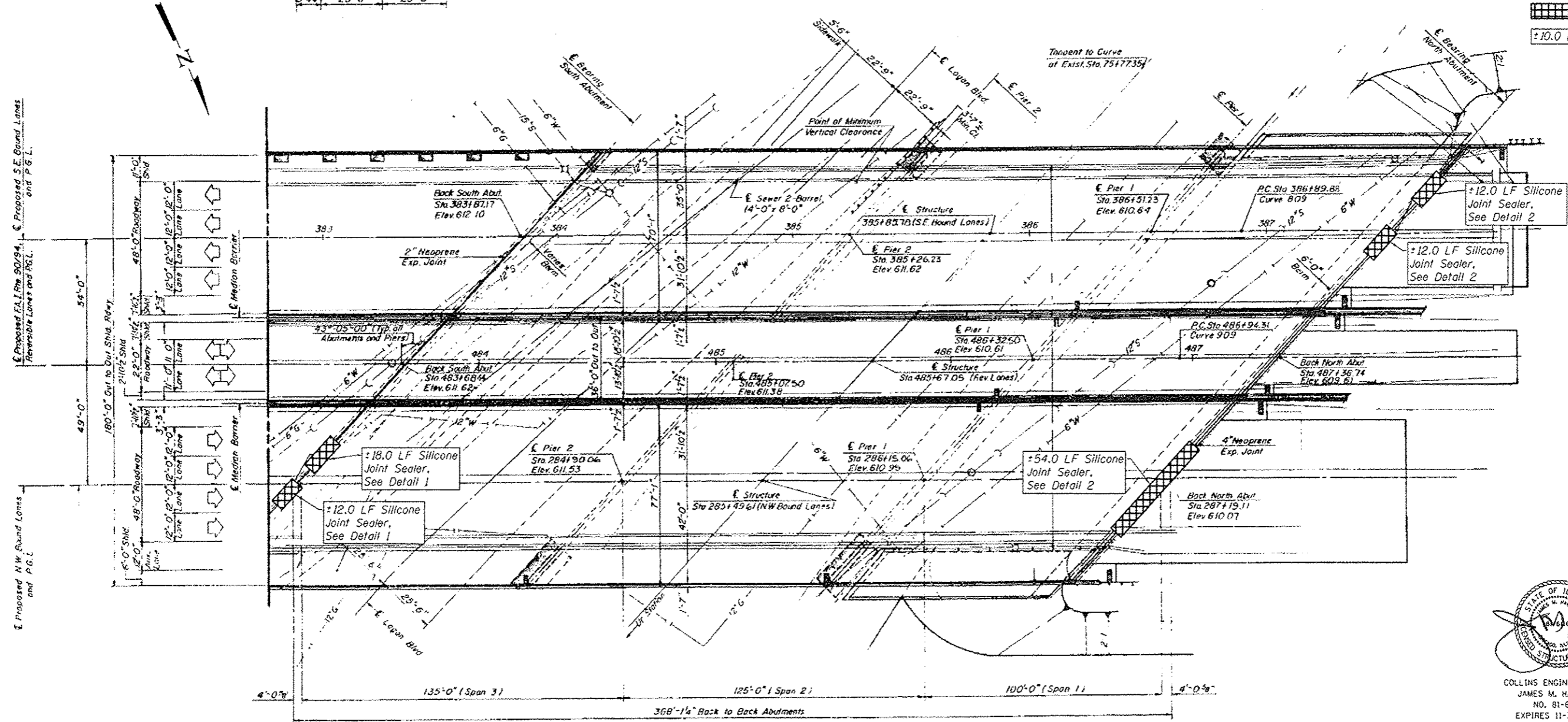
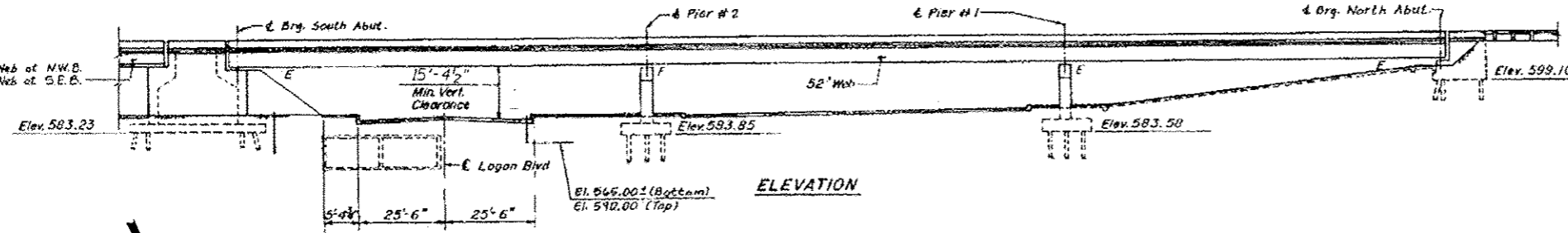
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges (17th Edition)

LOADING HS20-44



LEGEND

-  Joint Repair Area
-  ±10.0 LF Scope of Work



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014



USER NAME	DESIGNED - AMS	REVISED -
DRAWN - AMS	CHECKED - JMH	REVISED -
DATE - DECEMBER 2012		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER LOGAN BLVD. (SN 016-0127)
SHEET NO. S1 OF S2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	49
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

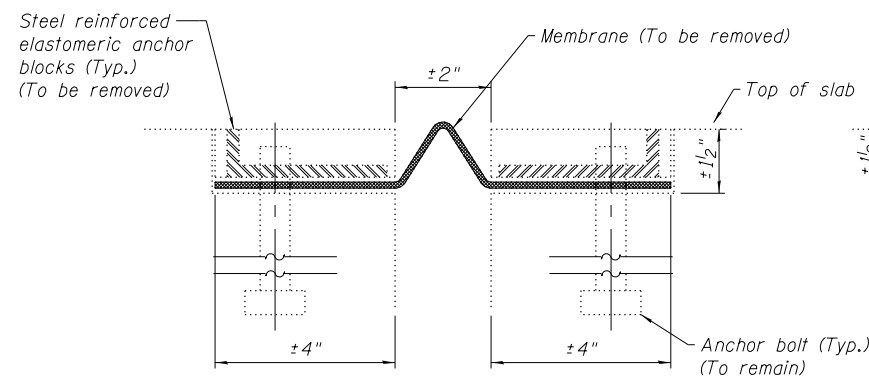
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

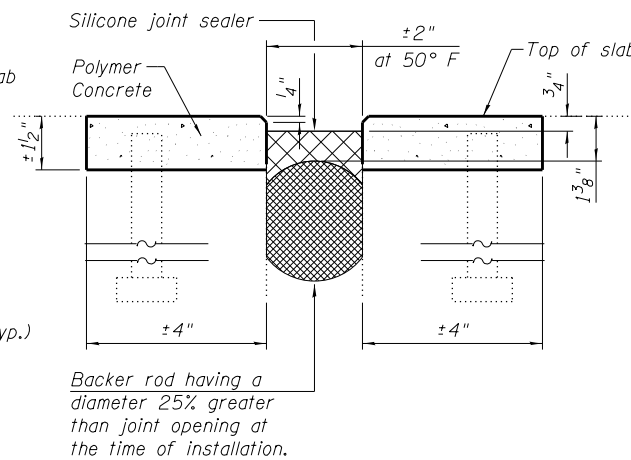
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2" or Silicone Joint Sealer 3", depending on the proposed repairs at the joint.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

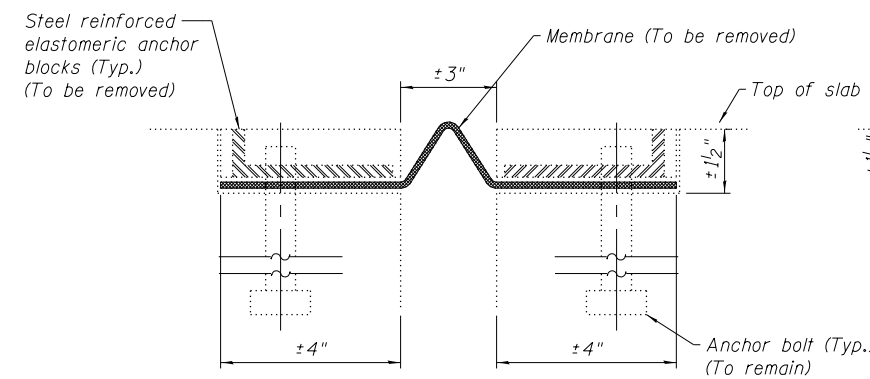
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	30.0
Silicone Joint Sealer, 3"	Foot	78.0
Polymer Concrete	Cu. Ft.	9.0



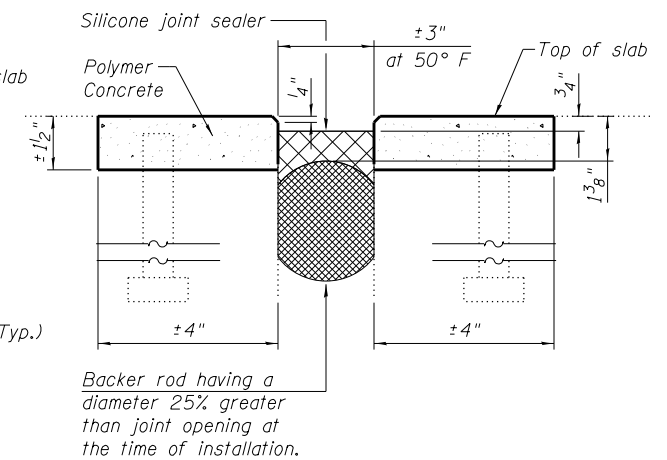
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISTING NEOPRENE JOINT



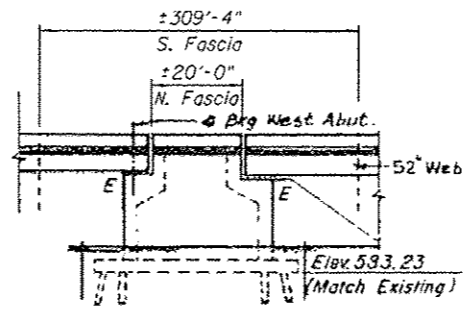
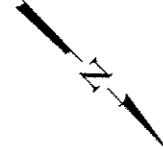
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

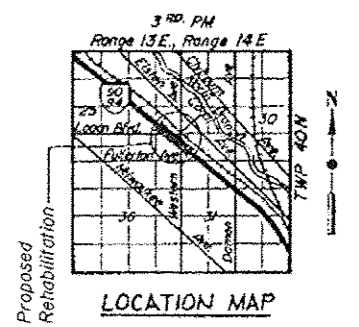
DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	REVISED -	
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



ELEVATION



SCOPE OF WORK

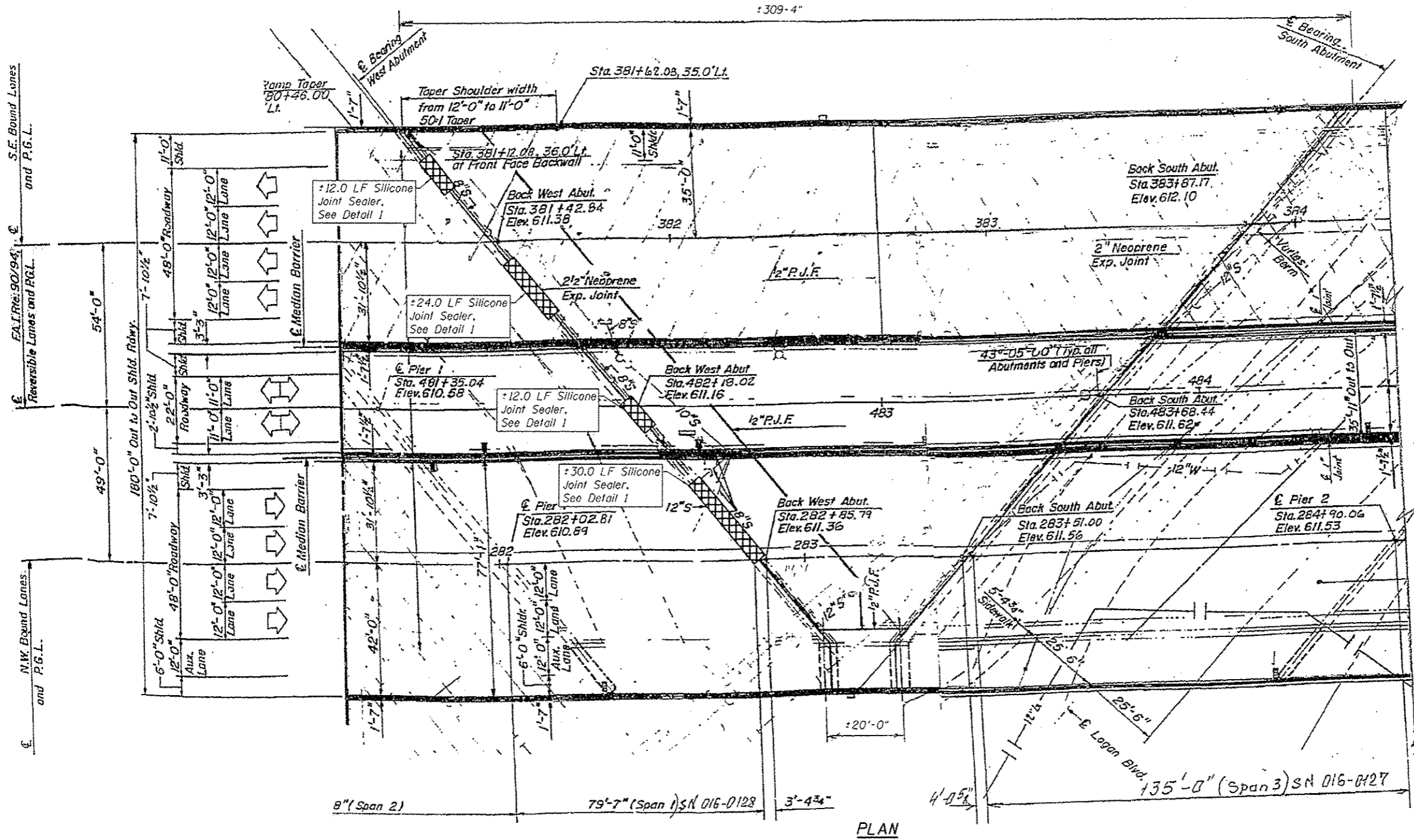
1. Expansion Joint Repairs
2. Substructure Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

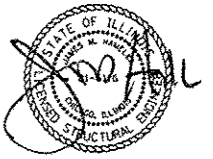
LOADING HS20-44

LEGEND

- Joint Repair Area
- Scope of Work



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 08-008993

USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER VAULTED STRUCTURE (SN. 016-2654)

SHEET NO. 51 OF 54 SHEETS

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 51
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

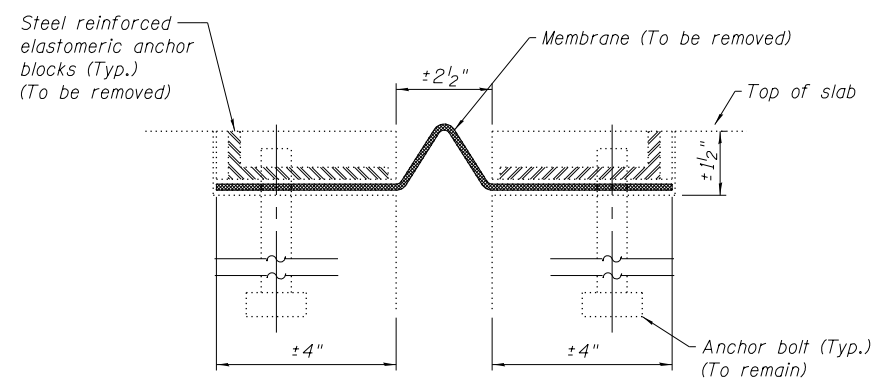
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details
- S3. Substructure Repair Plan
- S4. Substructure Repair Elevations

GENERAL NOTES

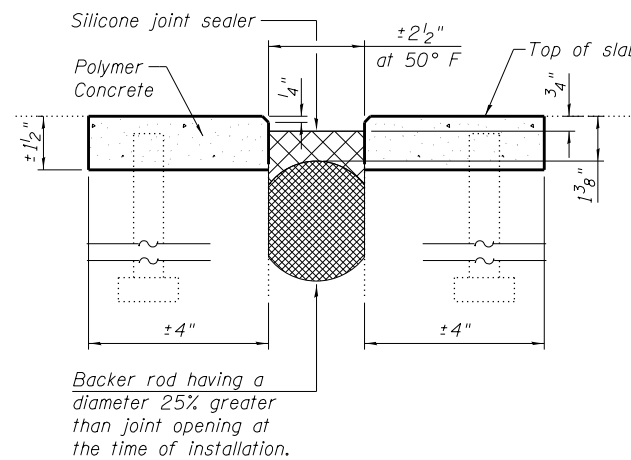
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2½".
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2½"	Foot	78.0
Polymer Concrete	Cu. Ft.	6.5
Structural Repair of Concrete (Depth Equal To or Less Than 5")	Sq. Ft.	141



SECTION THROUGH EXISTING NEOPRENE JOINT

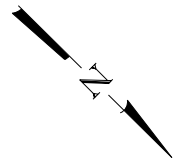


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

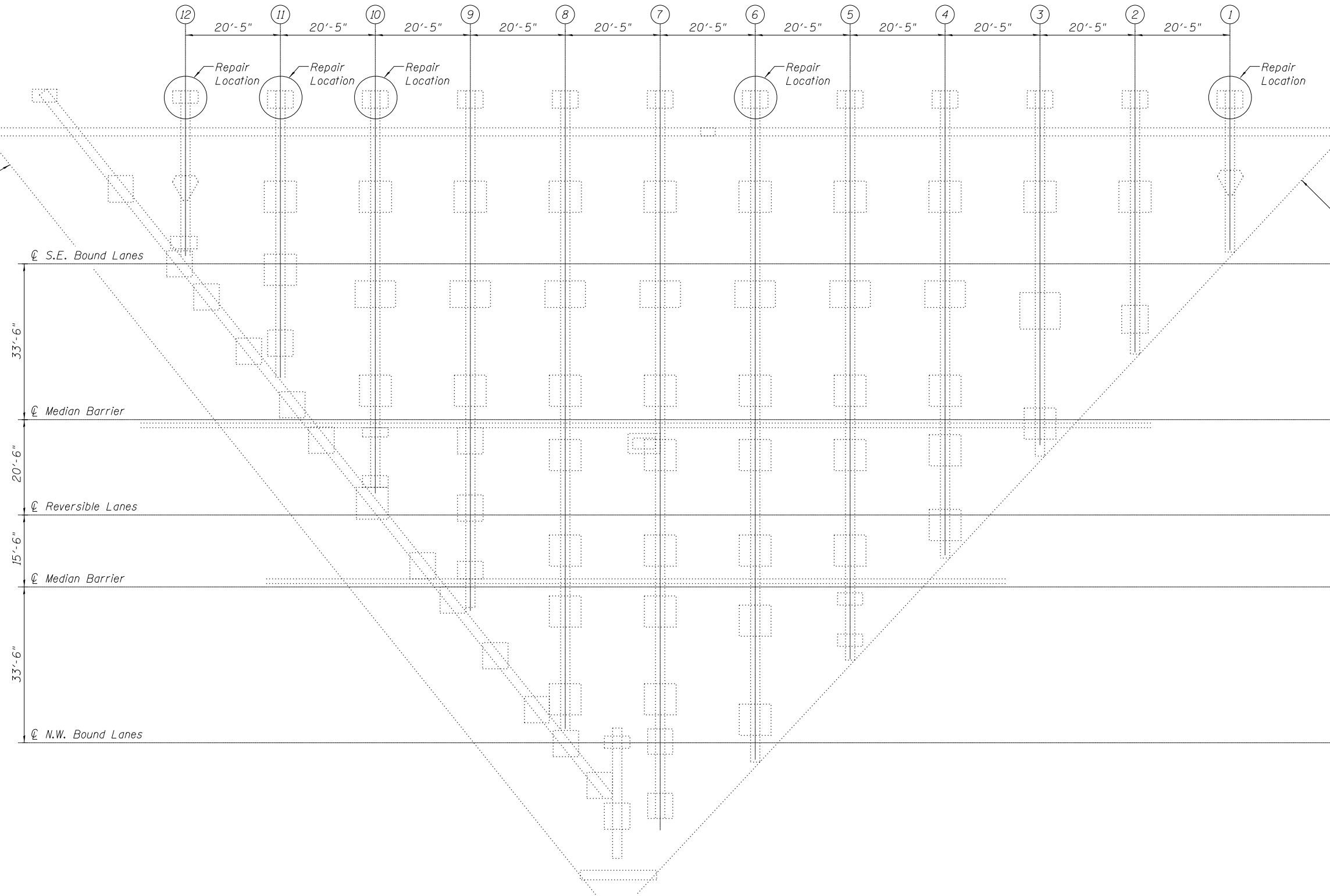
USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



Back of West Abut.
S.N. 016-0128

Back of South Abut.
S.N. 016-0127



PLAN

COLLINS ENGINEERS
133 N. Wacker Dr.
Suite 900
Chicago, IL 60606
Tel: (312) 704-9300
Fax: (312) 704-9320
www.collinsengr.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

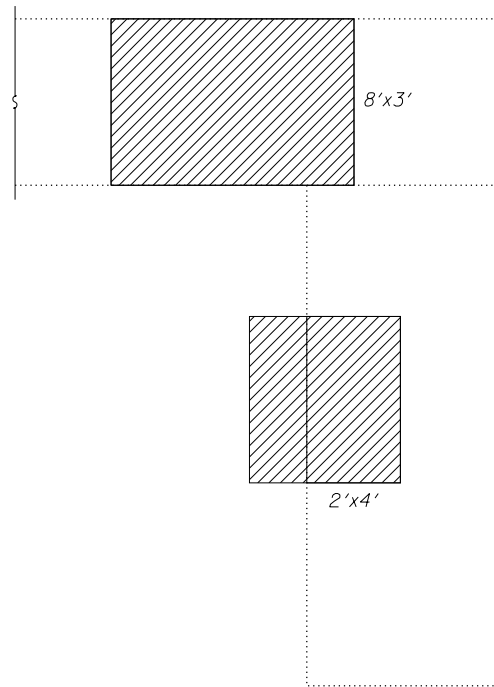
USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

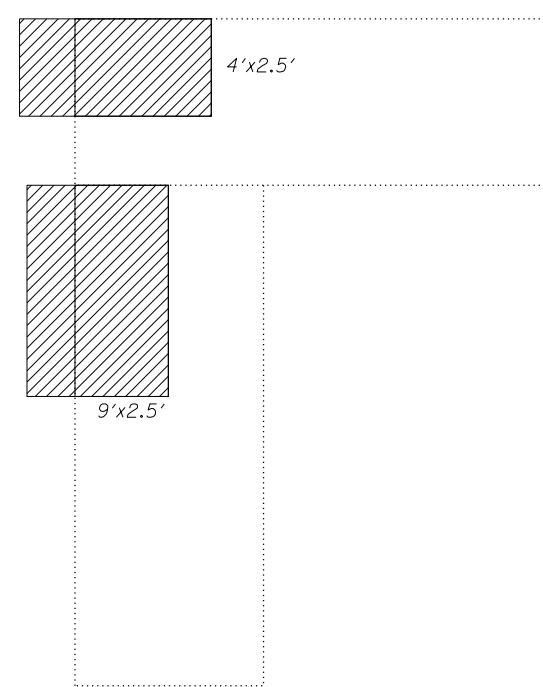
SUBSTRUCTURE REPAIR PLAN
I-90/94 OVER VAULTED STRUCTURE (SN 016-2654)

SHEET NO. 53 OF 54 SHEETS

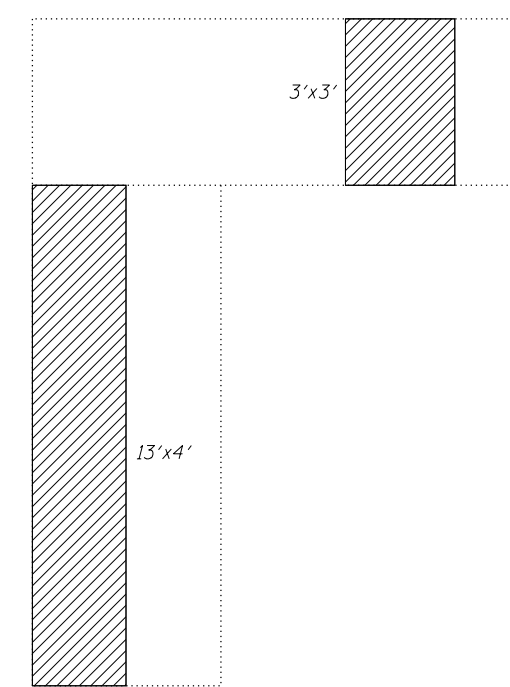
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	53
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



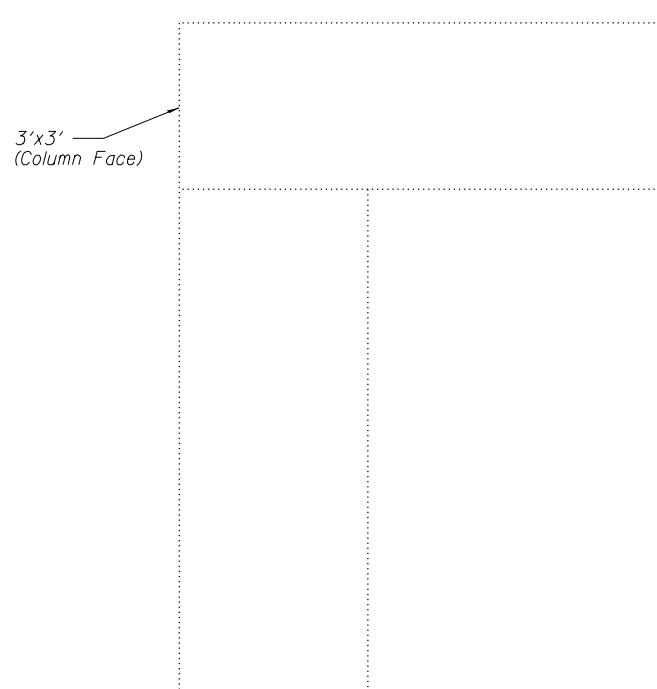
COLUMN 1 ELEVATION



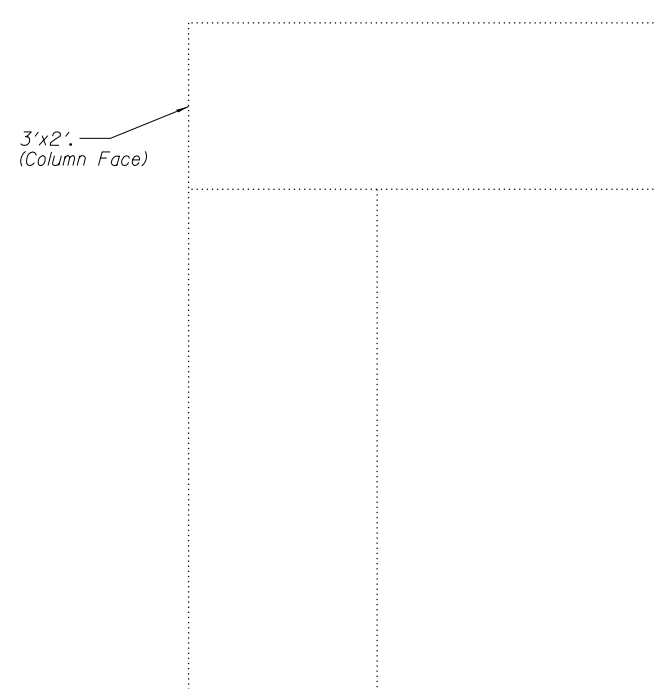
COLUMN 6 ELEVATION



COLUMN 10 ELEVATION




COLUMN 11 ELEVATION



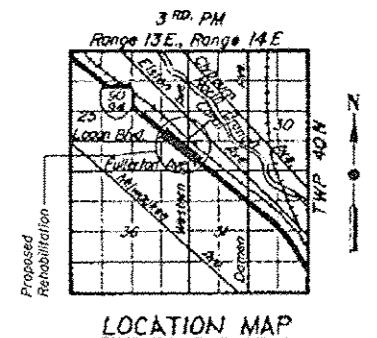
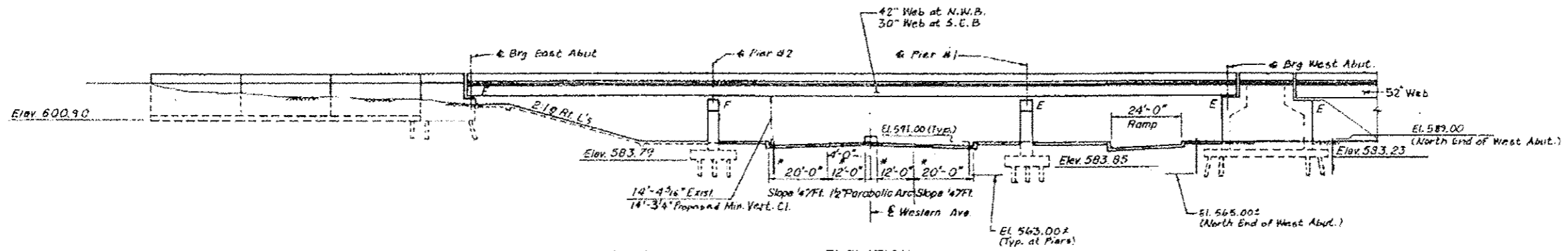
COLUMN 12 ELEVATION

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural repair of concrete, (depth equal to or less than 5")	Sq. Ft.	141

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	54
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



LOCATION MAP

SCOPE OF WORK

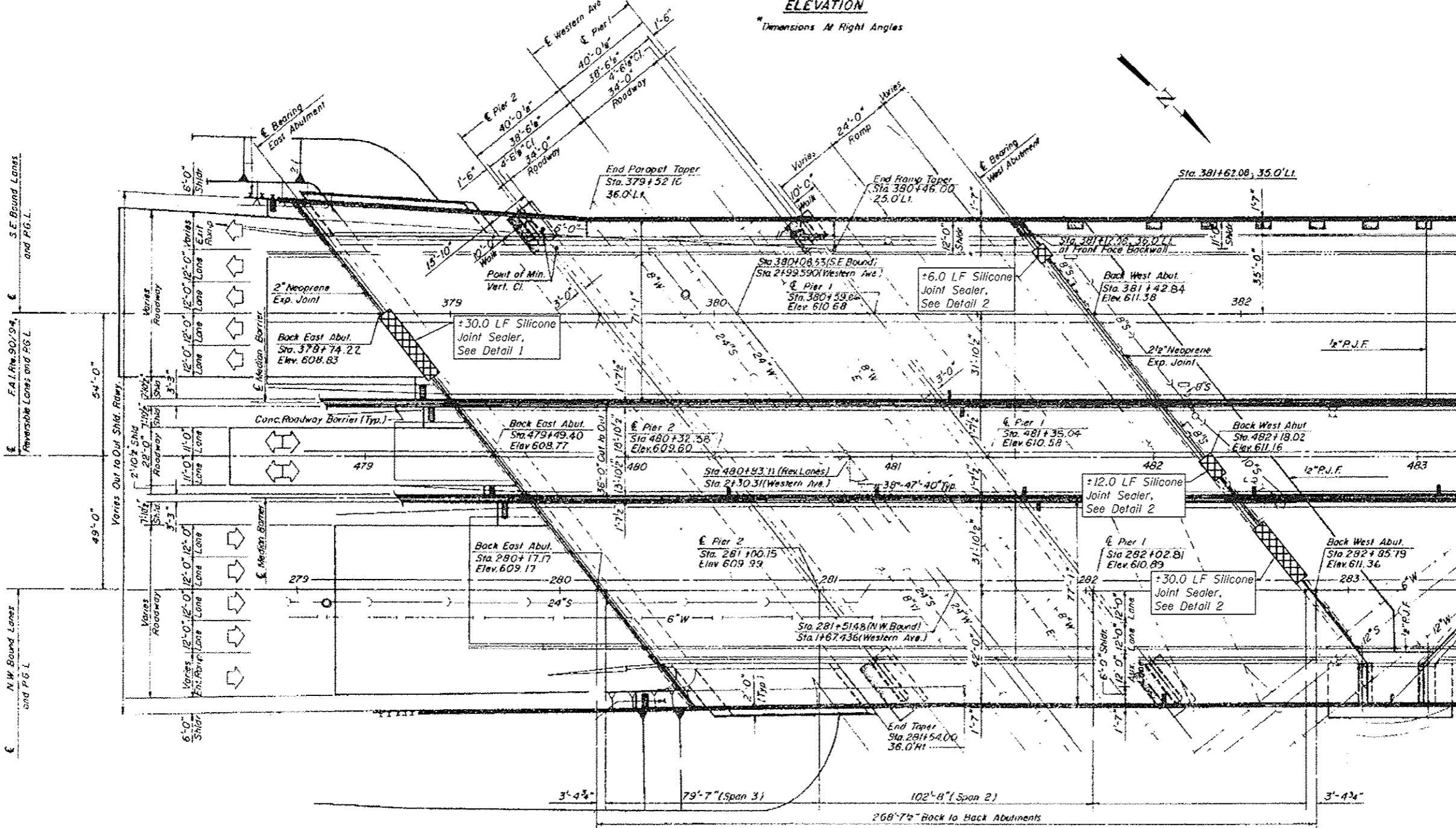
- 1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

- Joint Repair Area
- Scope of Work



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014



USER NAME	DESIGNED - AMS	REVISED -
PLOT SCALE	DRAWN - AMS	REVISED -
PLOT DATE	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER WESTERN AVE (SN 016-0128)

SHEET NO. 51 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0558R	COOK	107	55
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

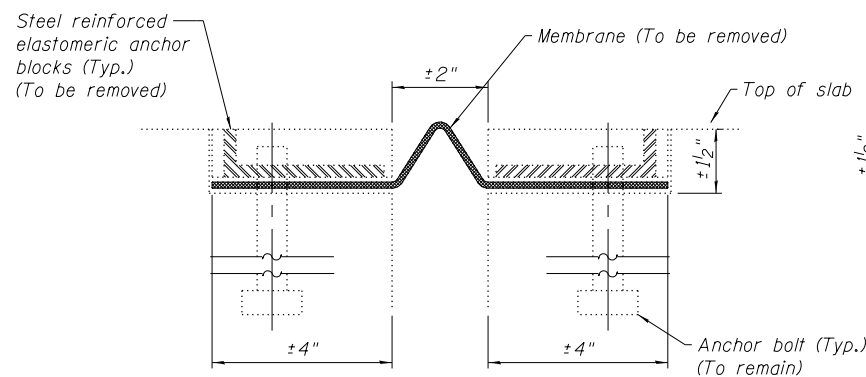
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

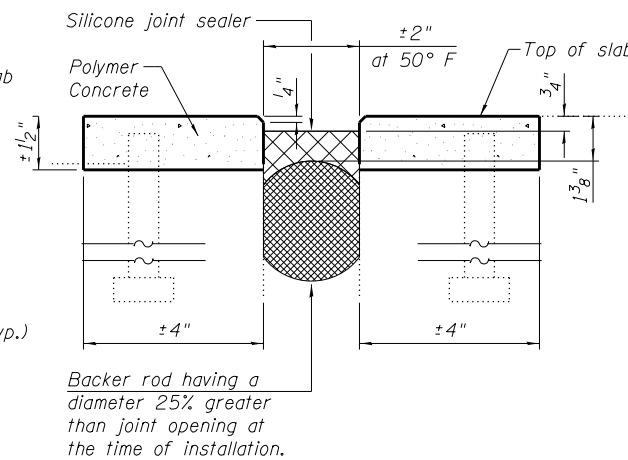
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2" or Silicone Joint Sealer 2½", depending on the proposed repairs at the joint.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

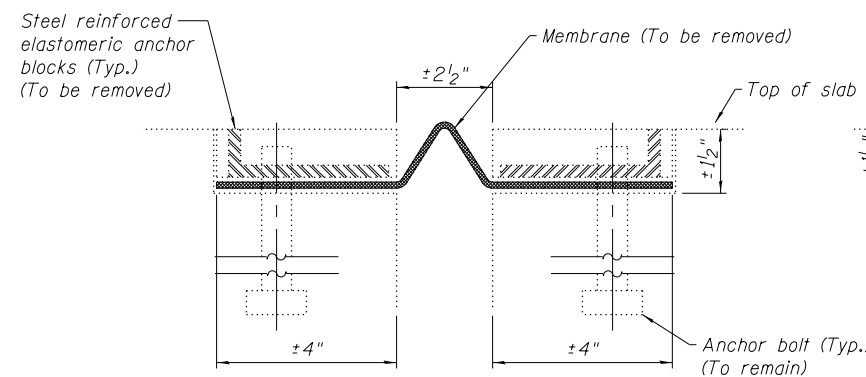
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	30.0
Silicone Joint Sealer, 2½"	Foot	48.0
Polymer Concrete	Cu. Ft.	6.5



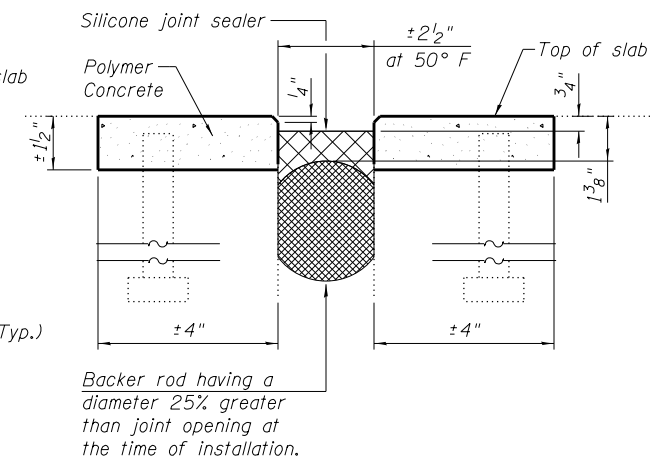
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISTING NEOPRENE JOINT



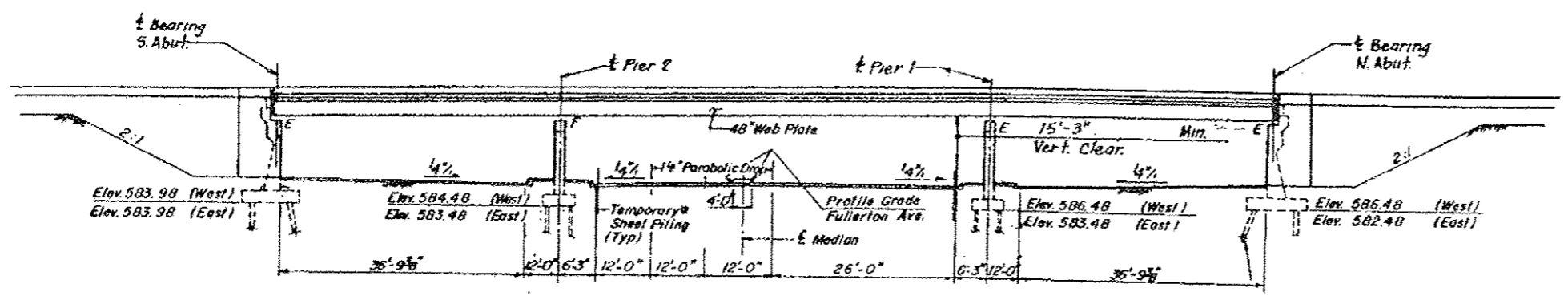
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

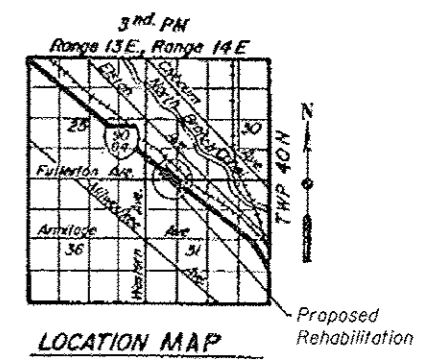
DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



ELEVATION

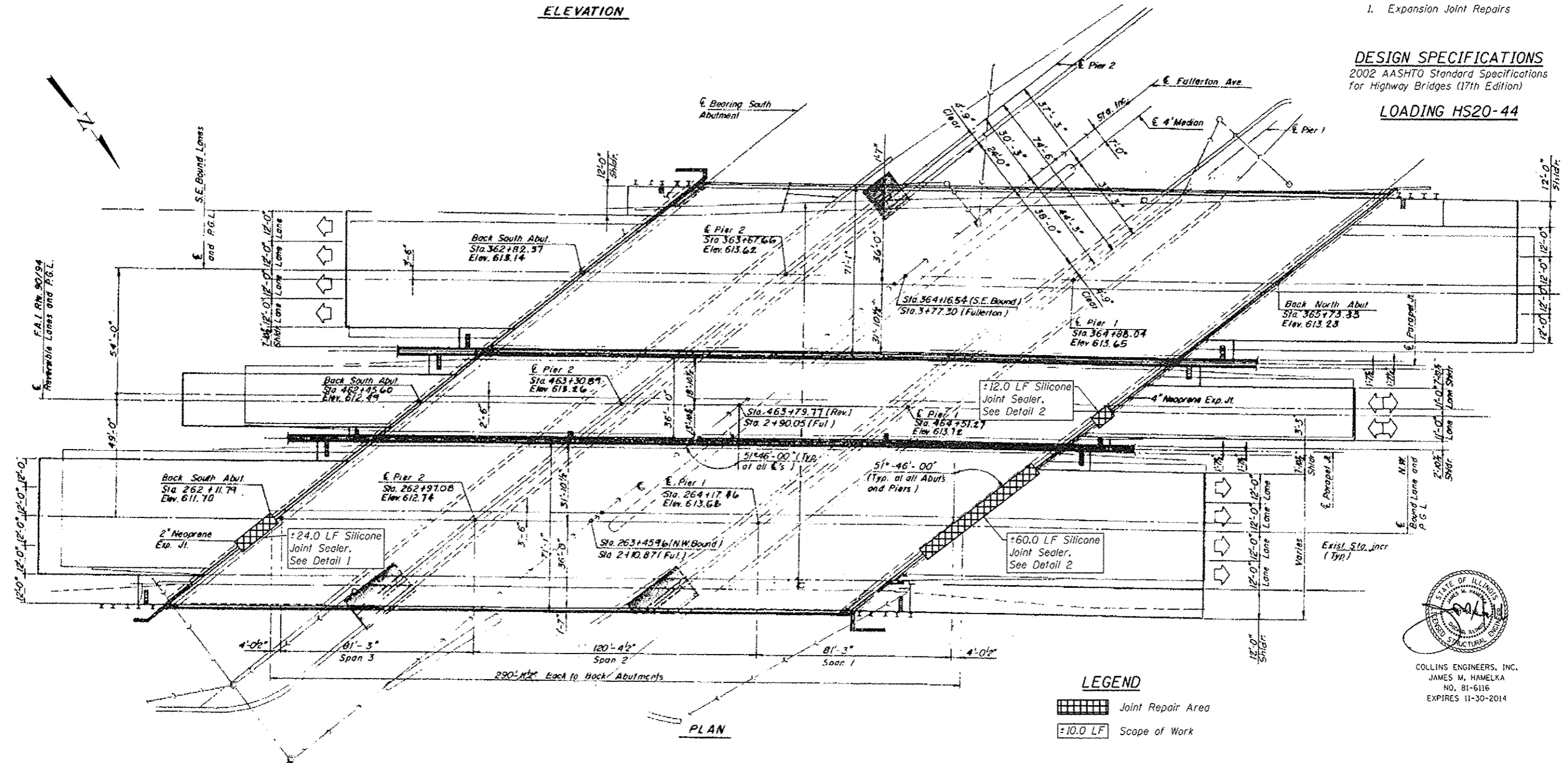


SCOPE OF WORK

1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44



PLAN

LEGEND

- Joint Repair Area
- ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS
123 N. Wacker Dr.
Chicago, IL 60606
Tel: 312.726.1000
Fax: 312.726.1001
www.collins-engineers.com

USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER FULLERTON AVE (SN 016-0129)

SHEET NO. 51 OF 52 SHEETS

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 57
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

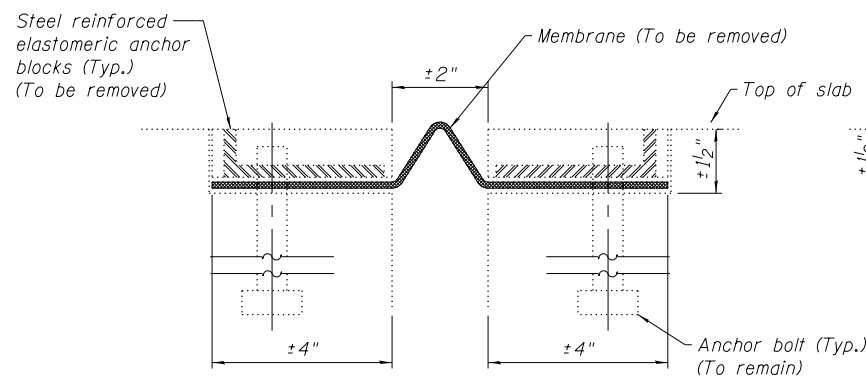
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

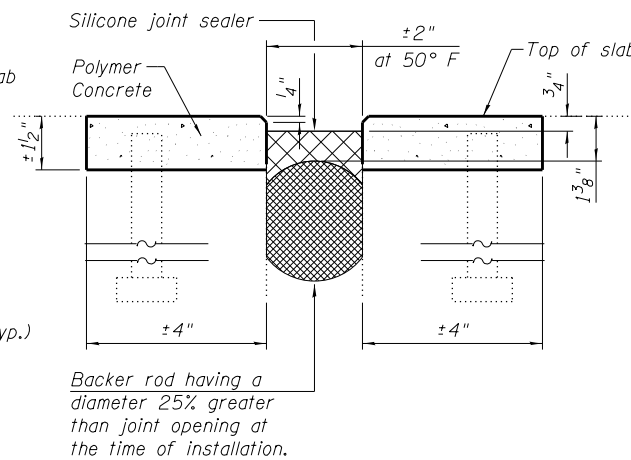
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4. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2" or Silicone Joint Sealer 3", depending on the proposed repair at the joint.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

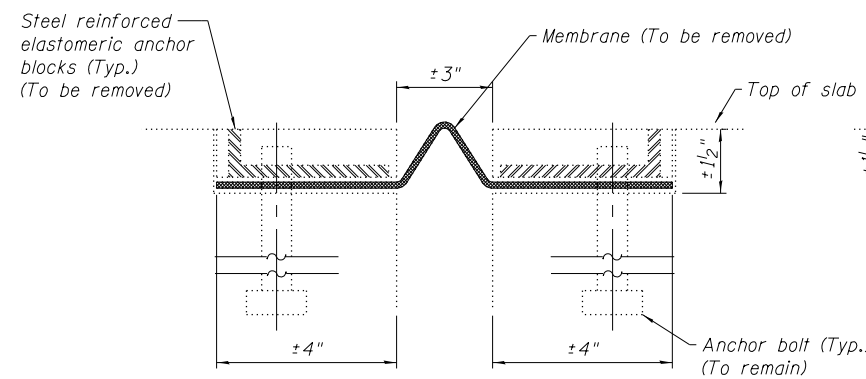
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	24.0
Silicone Joint Sealer, 3"	Foot	72.0
Polymer Concrete	Cu. Ft.	8.0



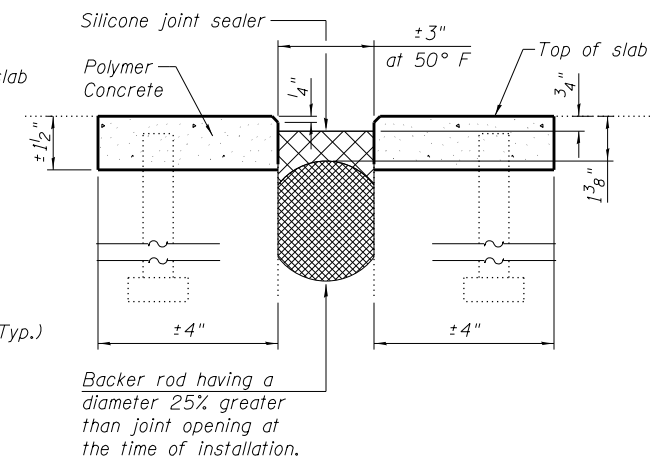
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISTING NEOPRENE JOINT



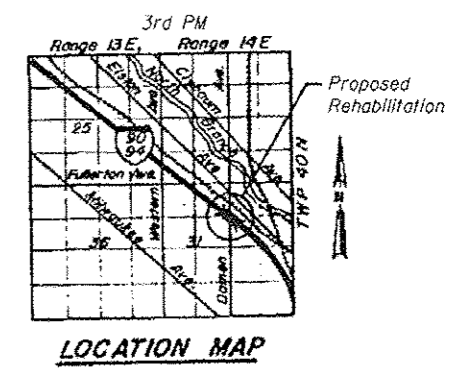
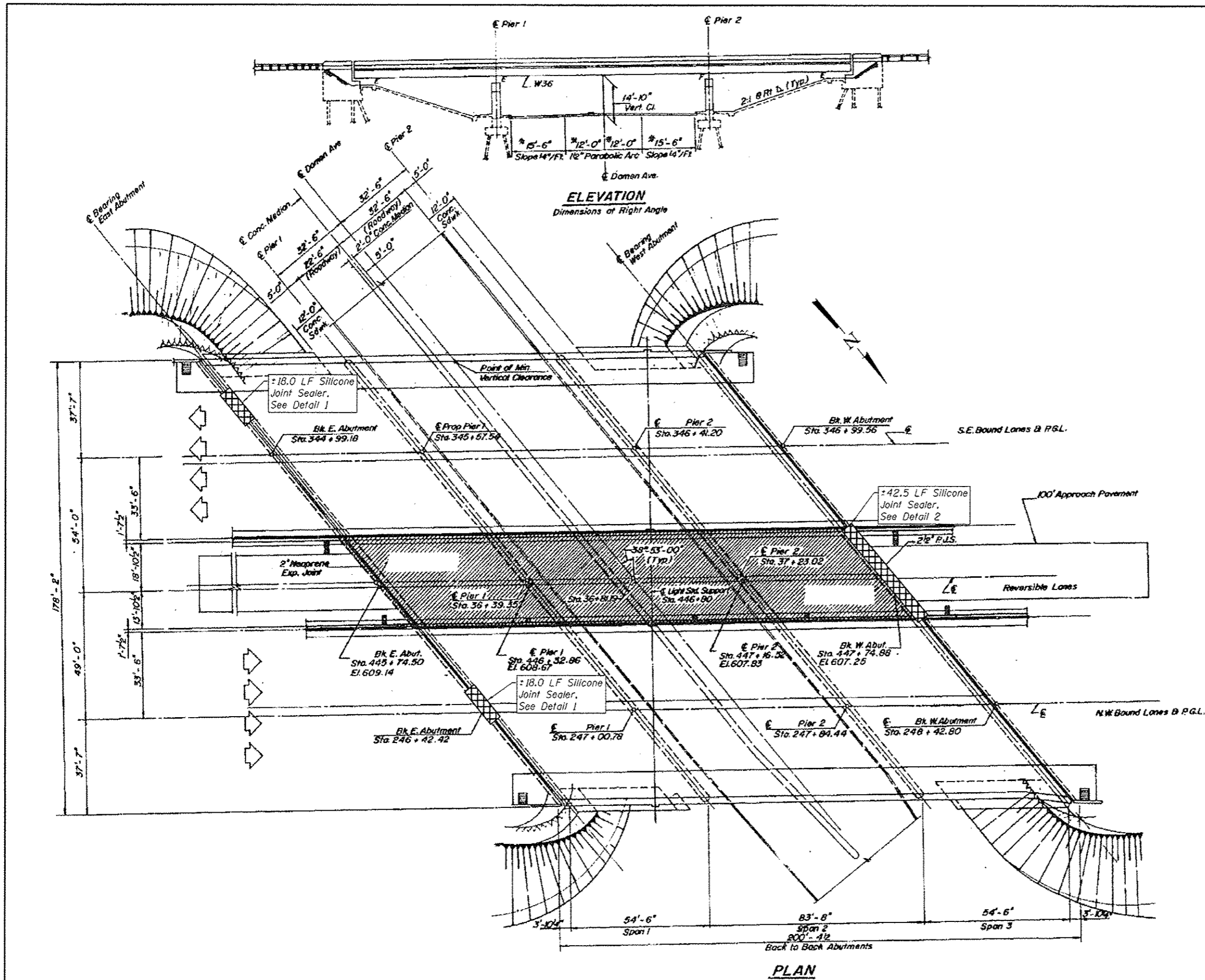
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

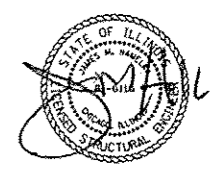


SCOPE OF WORK
 1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND
 [Hatched Box] Joint Repair Area
 [Dashed Box] ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
 JAMES M. HAMELKA
 NO. 81-6116
 EXPIRES 11-30-2014

COLLINS ENGINEERS
 177 N. Dear St.
 Chicago, IL 60604
 TEL: 312.704.1300
 FAX: 312.704.1302
 WWW: COLLINS-ENG.COM

USER NAME =	DESIGNED - AMS	REVISED -
PLOT SCALE =	DRAWN - AMS	REVISED -
PLOT DATE =	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 I-90/94 OVER DAMEN AVE (SN 016-0130)
 SHEET NO. S1 OF S2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	59
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

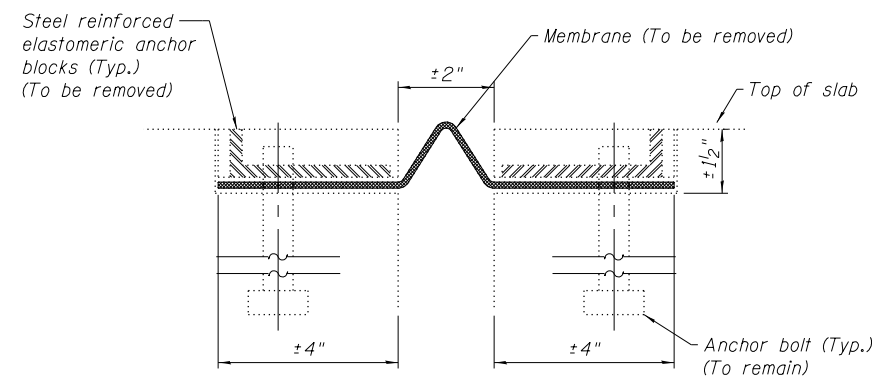
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

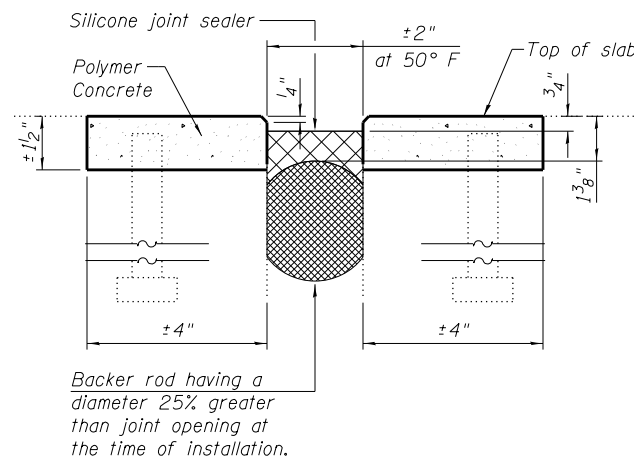
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6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

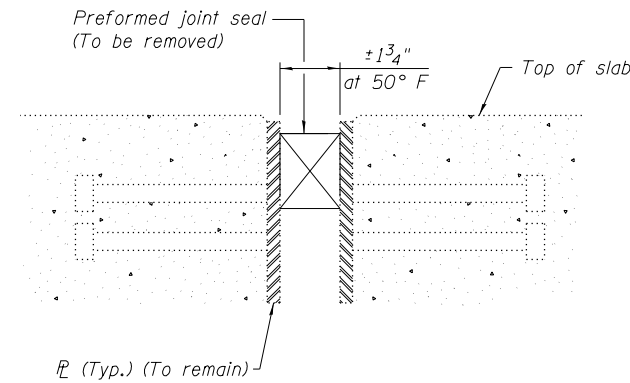
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 1 3/4"	Foot	42.5
Silicone Joint Sealer, 2"	Foot	36.0
Polymer Concrete	Cu. Ft.	3.0



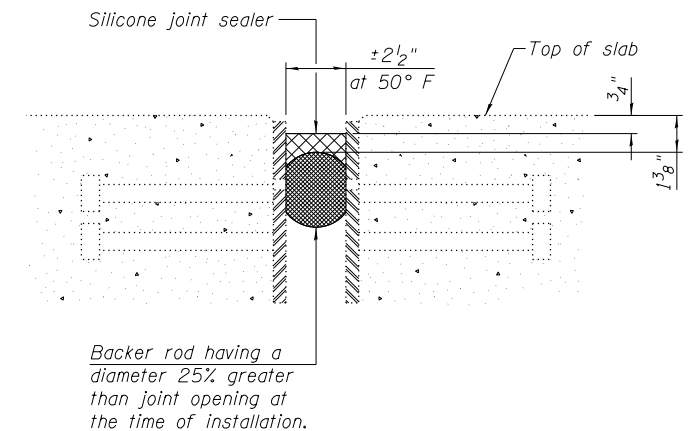
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISITING PJS JOINT



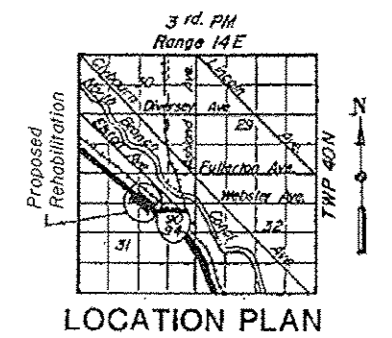
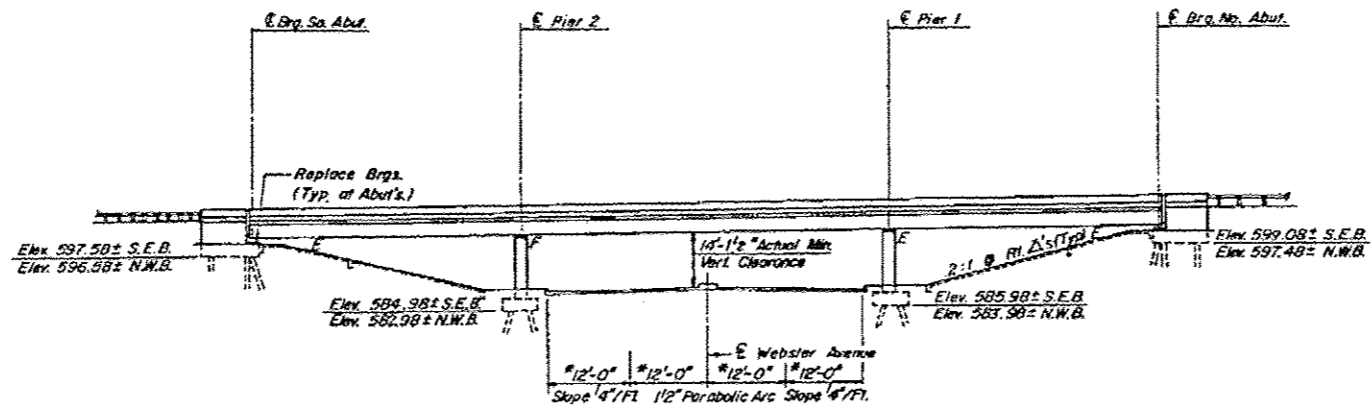
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	REVISOR -	
CHECKED - JMH	REVISOR -	
DATE - DECEMBER 2012	REVISOR -	

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 60
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



SCOPE OF WORK
1. Expansion Joint Repairs

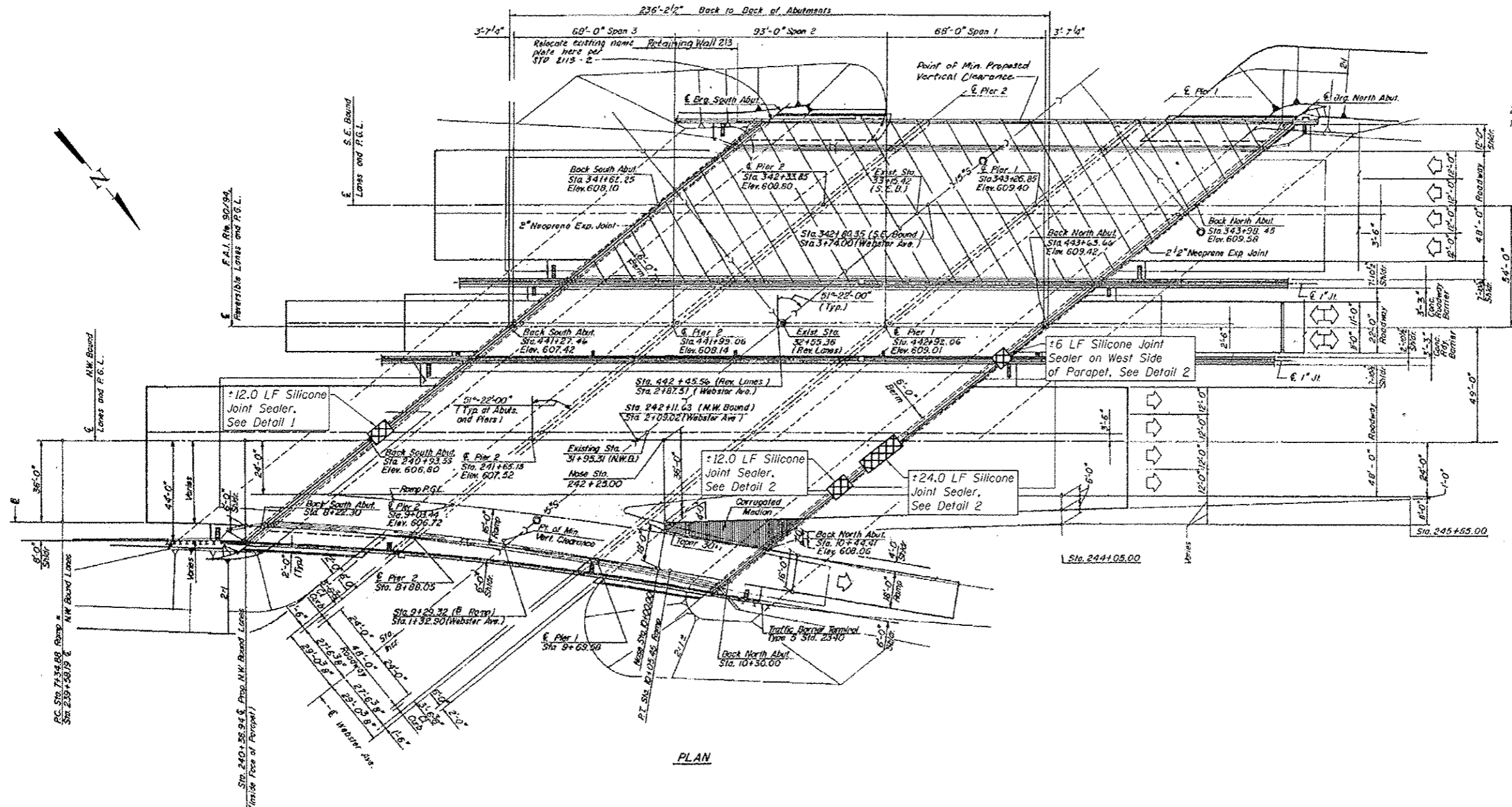
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

Joint Repair Area

+10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS, INC.
177 N. Rock Dr.
Chicago, IL 60604
Tel: 312.717.9000
Fax: 312.717.9001
www.collinseng.com

USER NAME	DESIGNED - AMS	REVISED -
PLOT SCALE	DRAWN - AMS	REVISED -
PLOT DATE	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER WEBSTER AVE (SN 016-0131)
SHEET NO. 51 OF 52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	61
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

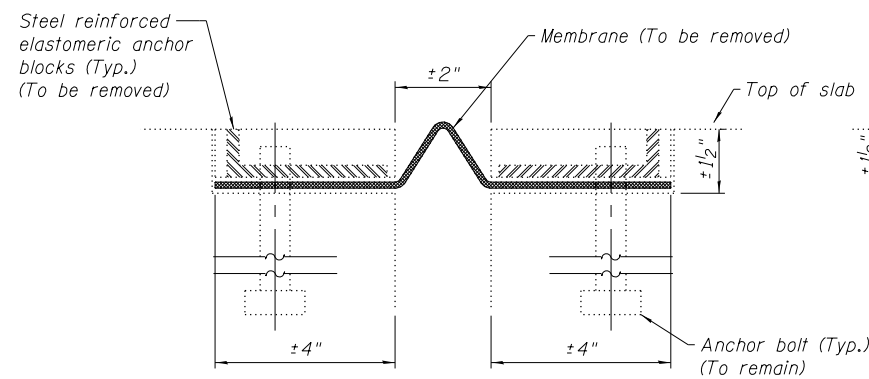
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

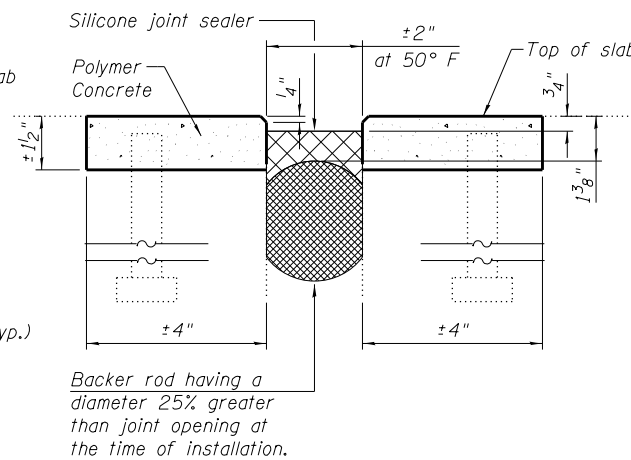
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2" or Silicone Joint Sealer 2½", depending on the proposed repairs at the joint.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

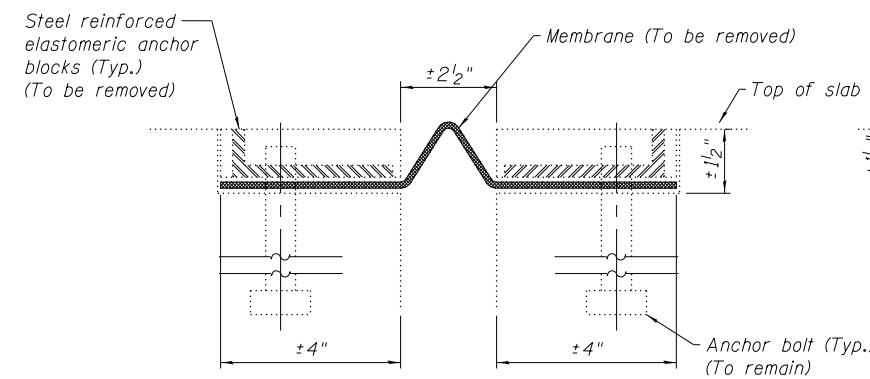
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	12.0
Silicone Joint Sealer, 2½"	Foot	42.0
Polymer Concrete	Cu. Ft.	4.5



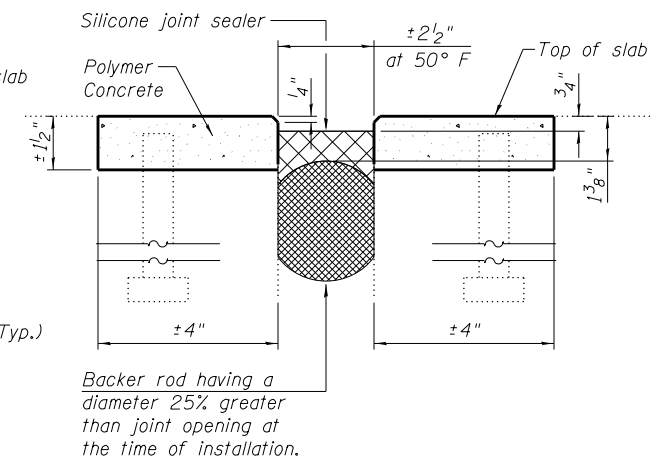
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISTING NEOPRENE JOINT



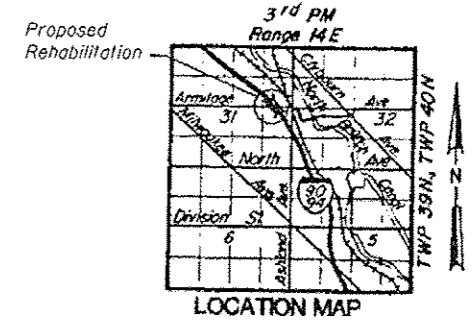
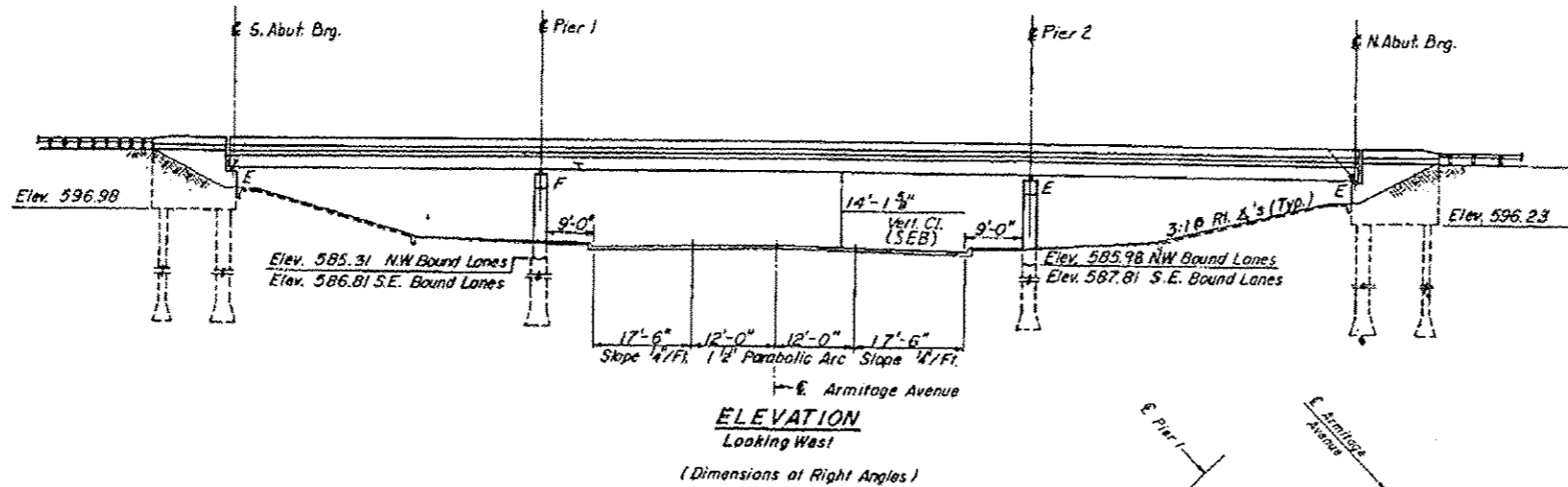
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 62
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



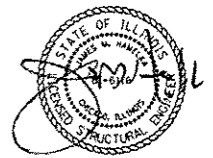
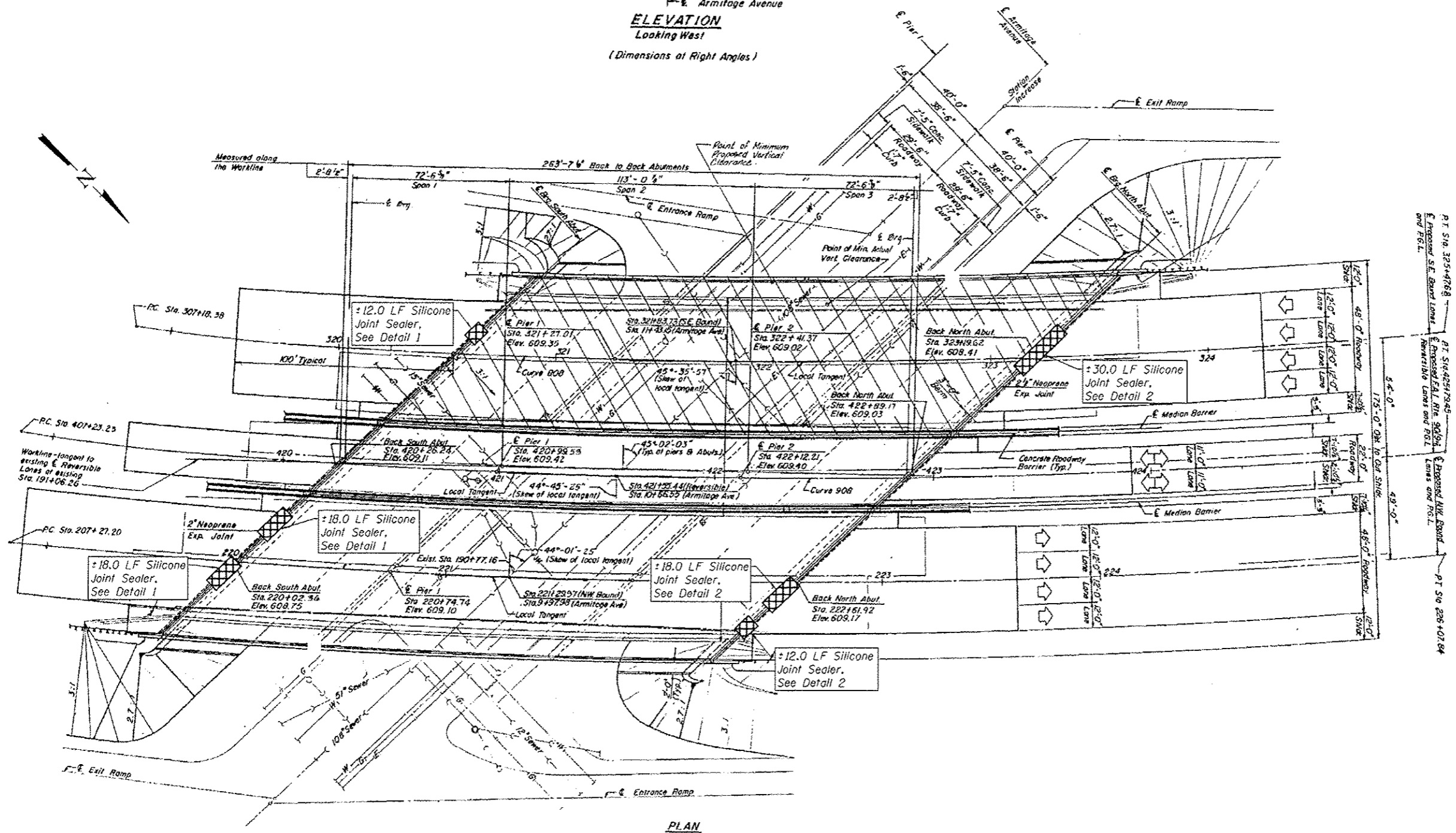
SCOPE OF WORK
1. Expansion Joint Repairs

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

LEGEND

- Joint Repair Area
- ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2014

COLLINS ENGINEERS, INC.
1111 N. Western Dr.
Chicago, IL 60606
Tel: (773) 121-1000
Fax: (773) 121-1001
www.collinseng.com

USER NAME *	DESIGNED - AMS	REVISED -
PLOT SCALE *	DRAWN - AMS	REVISED -
PLOT DATE *	CHECKED - JNH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER ARMITAGE AVE (SN 016-0132)

SHEET NO. 51 OF 52 SHEETS

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0558R	COOK	107	63
CONTRACT NO. 60V58			ILLINOISIFIED, AID PROJECT	

INDEX OF SHEETS

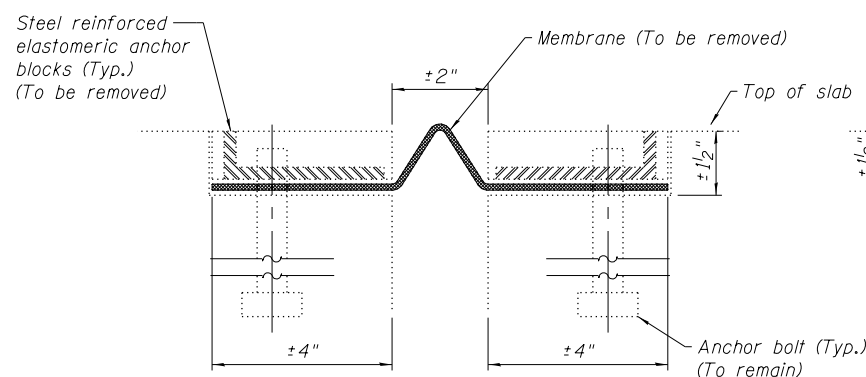
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

GENERAL NOTES

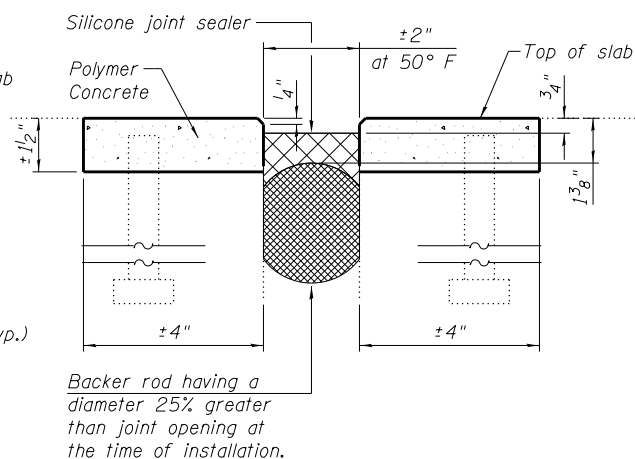
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 2" or Silicone Joint Sealer 2½", depending on the proposed repairs at the joint..
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

TOTAL BILL OF MATERIAL

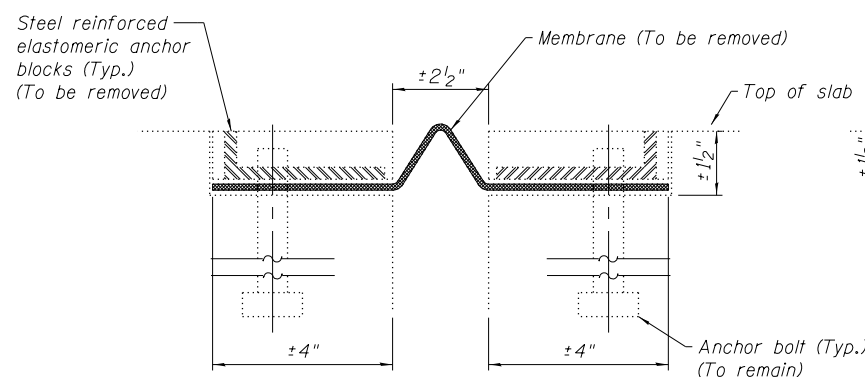
ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	48.0
Silicone Joint Sealer, 2½"	Foot	60.0
Polymer Concrete	Cu. Ft.	9.0



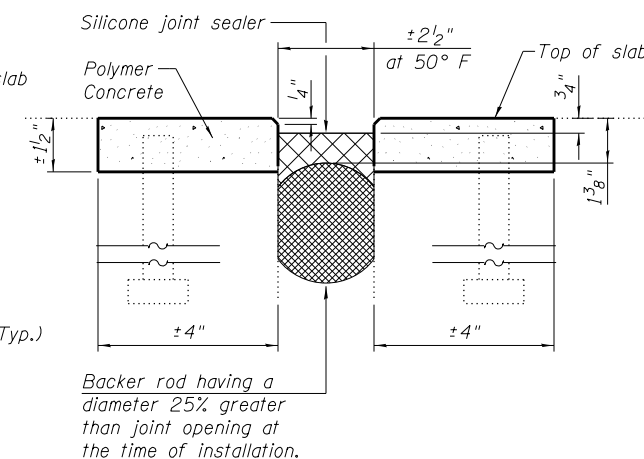
SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER



SECTION THROUGH EXISTING NEOPRENE JOINT



SECTION THROUGH PROPOSED SILICONE JOINT SEALER

DETAIL 1

DETAIL 2

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

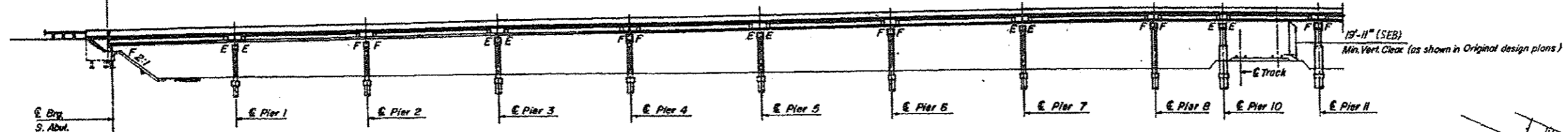
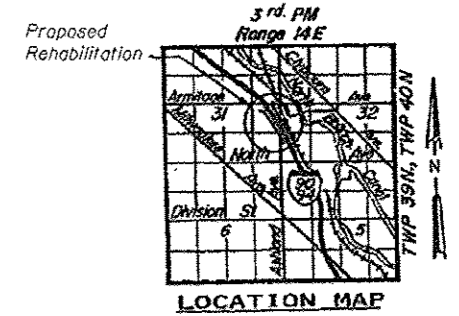
SCOPE OF WORK

1. Expansion Joint Repairs
2. Superstructure Repairs
3. Substructure Repairs

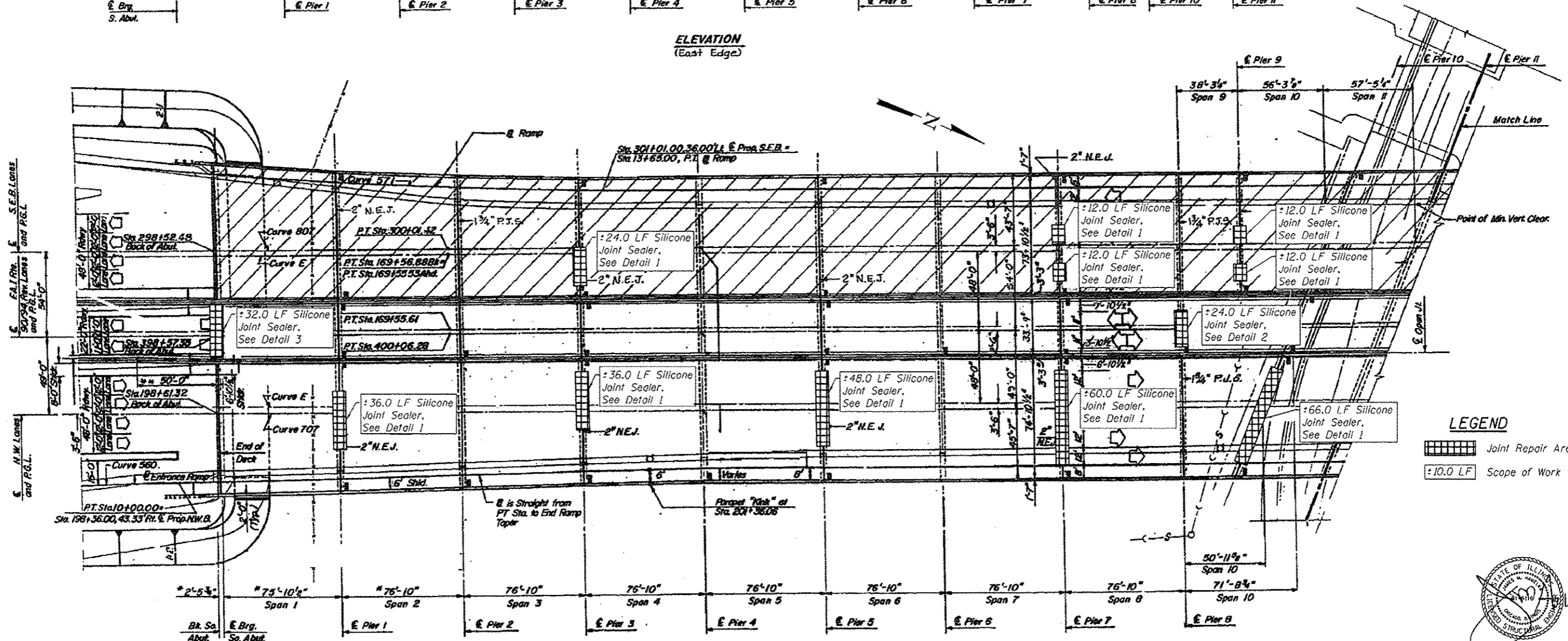
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44



ELEVATION
(East Edge)



PLAN

* Measured at Rt. Angles to E Substructure
 ** 50'-0" - Transition Length for Shoulder Widths
 (At open joint between Riv. Lanes and N.W.B. Lanes only)

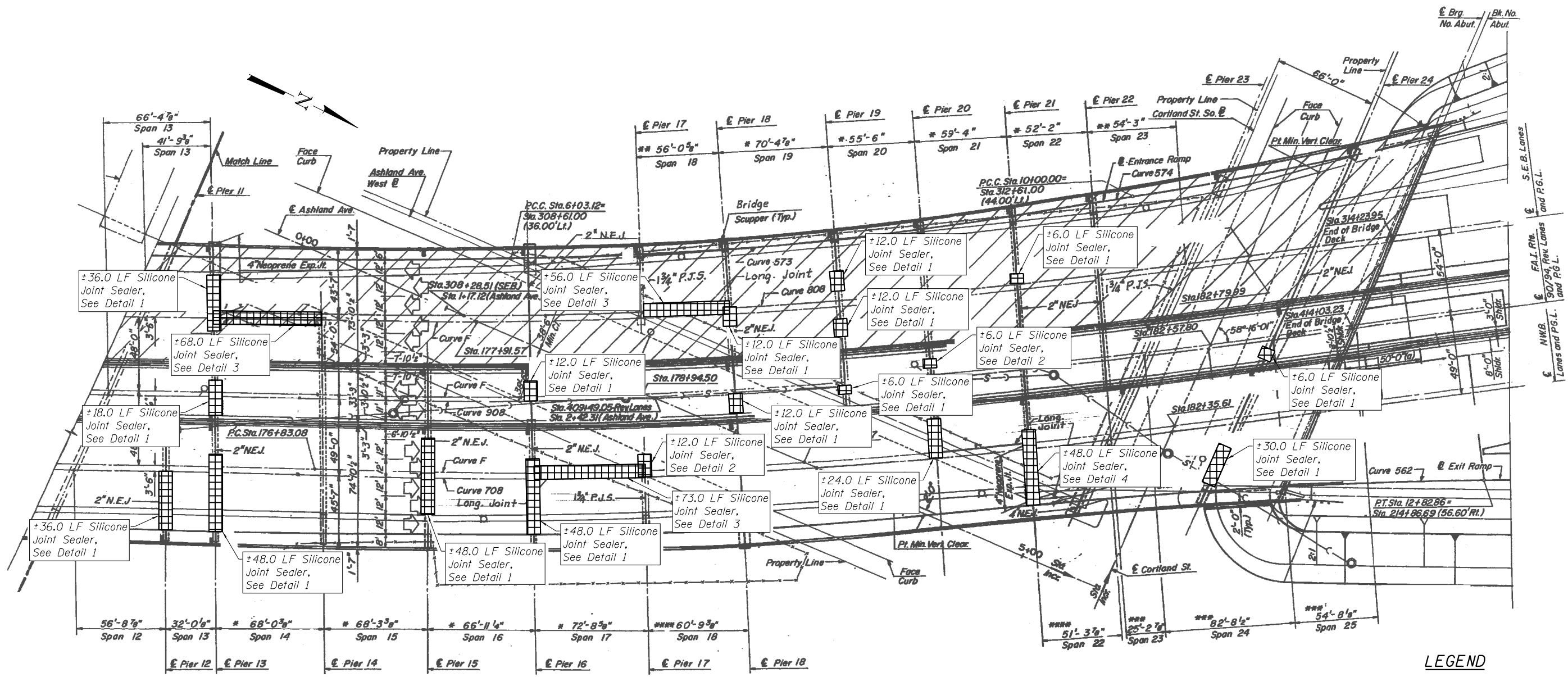
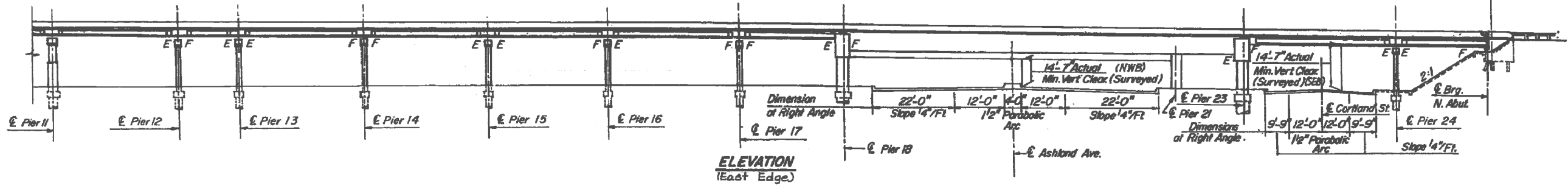
LEGEND

- [Hatched Box] Joint Repair Area
- [Shaded Box] Scope of Work



COLLINS ENGINEERS, INC.
 JAMES M. HAMELKA
 NO. 81-6116
 EXPIRES 11-30-2014

COLLINS ENGINEERS, INC. 1321 S. 11th St. Suite 100 Chicago, IL 60606 Tel: (312) 354-1300 Fax: (312) 354-1320 www.collinseng.com	USER NAME :	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION I I-90/94 OVER ASHLAND AVE (SN 016-0133)		F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE :	DRAWN - AMS	REVISED -		90/94	2012-055BR	COOK	107	65		
	PLOT DATE :	CHECKED - JMH	REVISED -		SHEET NO. 51 OF 534 SHEETS		CONTRACT NO. 60V58		ILLINOIS FED. AID PROJECT		
	DATE - DECEMBER 2012	REVISOR -	REVISED -								



* Measured at Rt. Angles to E. Substructure
 ** Measured along E. S.E. Bound Lanes
 *** Measured along E. Reversible Lanes
 **** Measured along E. N.W. Bound Lanes

LEGEND
 Joint Repair Area
 ±10 LF Scope of Work

PLAN

COLLINS ENGINEERS
 133 N. Rocker Dr.
 Suite 900
 Chicago, IL 60646
 Tel: (312) 704-3300
 Fax: (312) 704-9320
 www.collinsengr.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

USER NAME =	DESIGNED - AMS	REVISED -
PLOT SCALE =	DRAWN - AMS	REVISED -
PLOT DATE =	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION II
 I-90/94 OVER ASHLAND AVE (SN 016-0133)**

SHEET NO. 52 OF 534 SHEETS

F.A.I. RT. E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	66
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

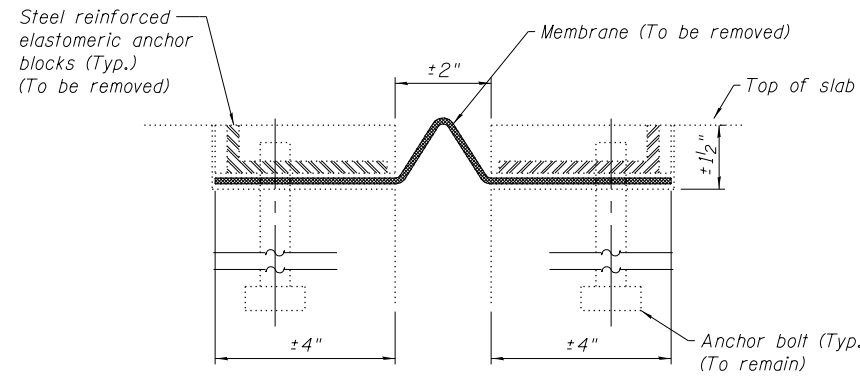
- S1. General Plan and Elevation I
- S2. General Plan and Elevation II
- S3. General Notes, Bill of Materials, Index of Sheets, and Details
- S4. Partial Framing Plan I
- S5. Partial Framing Plan II
- S6. Partial Framing Plan III
- S7. PPC I-Beam Repair Details
- S8. Structural Steel Repair Details I
- S9. Structural Steel Repair Details II
- S10. Pier 1 Repairs
- S11. Pier 2 Repairs
- S12. Pier 3 Repairs
- S13. Pier 4 Repairs
- S14. Pier 5 Repairs
- S15. Pier 6 Repairs
- S16. Pier 7 Repairs
- S17. Pier 8 Repairs
- S18. Pier 9 Repairs
- S19. Pier 10 Repairs
- S20. Pier 11 Repairs
- S21. Pier 12 Repairs
- S22. Pier 13 Repairs
- S23. Pier 14 Repairs
- S24. Pier 15 Repairs
- S25. Pier 16 Repairs
- S26. Pier 17 Repairs
- S27. Pier 18 Repairs
- S28. Pier 19 Repairs
- S29. Pier 20 Repairs
- S30. Pier 21 Repairs
- S31. Pier 22 Repairs
- S32. Pier 23 Repairs
- S33. Pier 24 Repairs
- S34. Pier 24 Repairs

GENERAL NOTES

1. 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.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. 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.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 1", Silicone Joint Sealer 1 1/2", Silicone Joint Sealer 2", or Silicone Joint Sealer 3", depending on the proposed repairs at the joint.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.
7. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead in this project.
8. 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".
9. All new structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost is included in Structural Steel Repair.

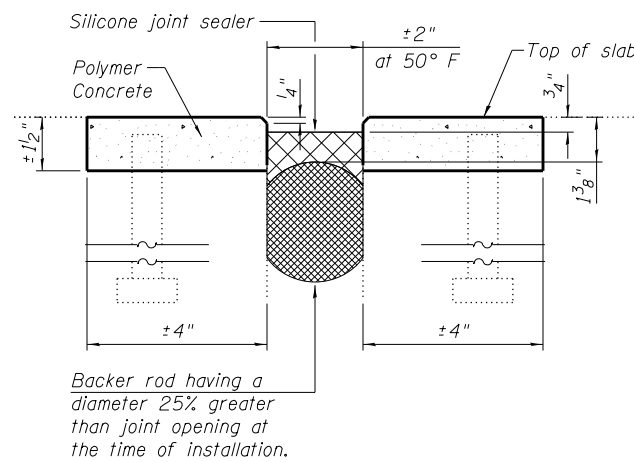
BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 1"	Foot	42.0
Silicone Joint Sealer, 1 1/2"	Foot	229.0
Silicone Joint Sealer, 2"	Foot	684.0
Silicone Joint Sealer, 3"	Foot	48.0
Polymer Concrete	Cu. Ft.	61.0
Structural Repair of Concrete (Depth Equal To or Less Than 5")	Sq. Ft.	16,484
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	278
Precast Prestressed Concrete I-Beam Repair	L. Sum	1
Structural Steel Repair	Pound	3,310
Temporary Shoring and Cribbing	Each	393



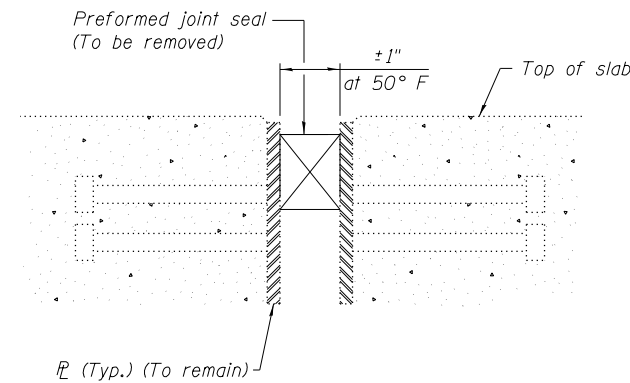
SECTION THROUGH EXISTING NEOPRENE JOINT

DETAIL 1



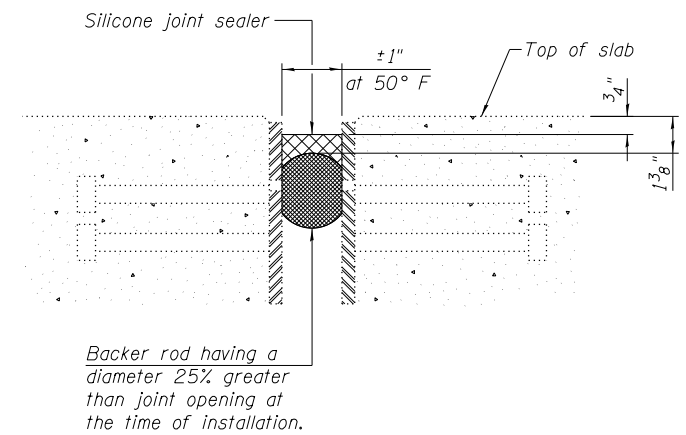
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

Steel reinforced elastomeric anchor blocks (Typ.) (To be removed)



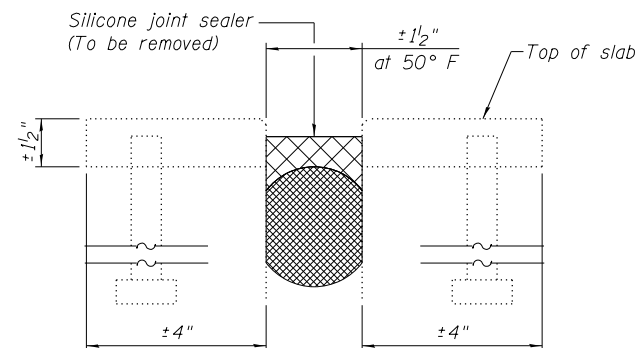
SECTION THROUGH EXISTING PJS JOINT

DETAIL 2



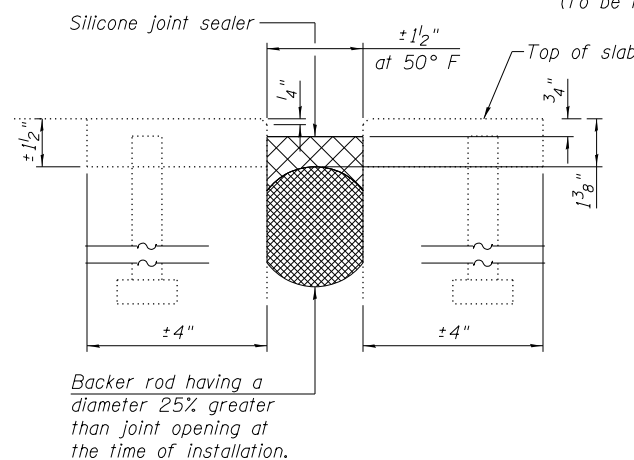
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

Backer rod having a diameter 25% greater than joint opening at the time of installation.



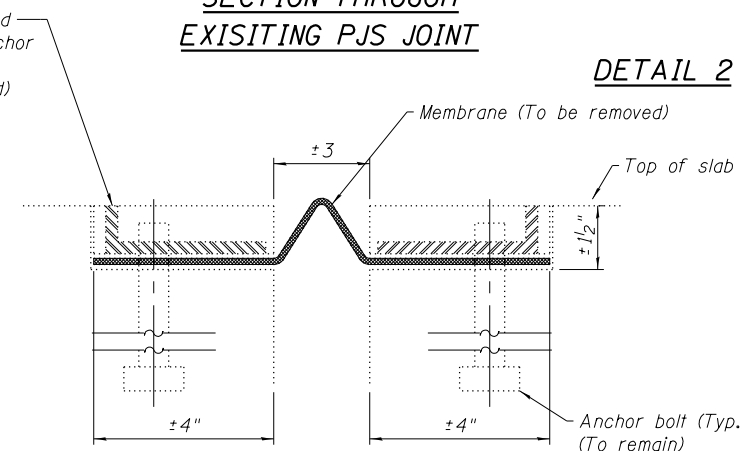
SECTION THROUGH EXISTING SILICONE JOINT

DETAIL 3



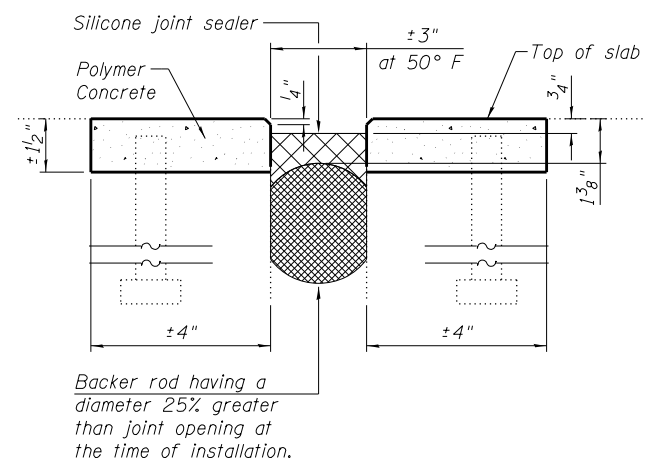
SECTION THROUGH PROPOSED SILICONE JOINT SEALER

Backer rod having a diameter 25% greater than joint opening at the time of installation.



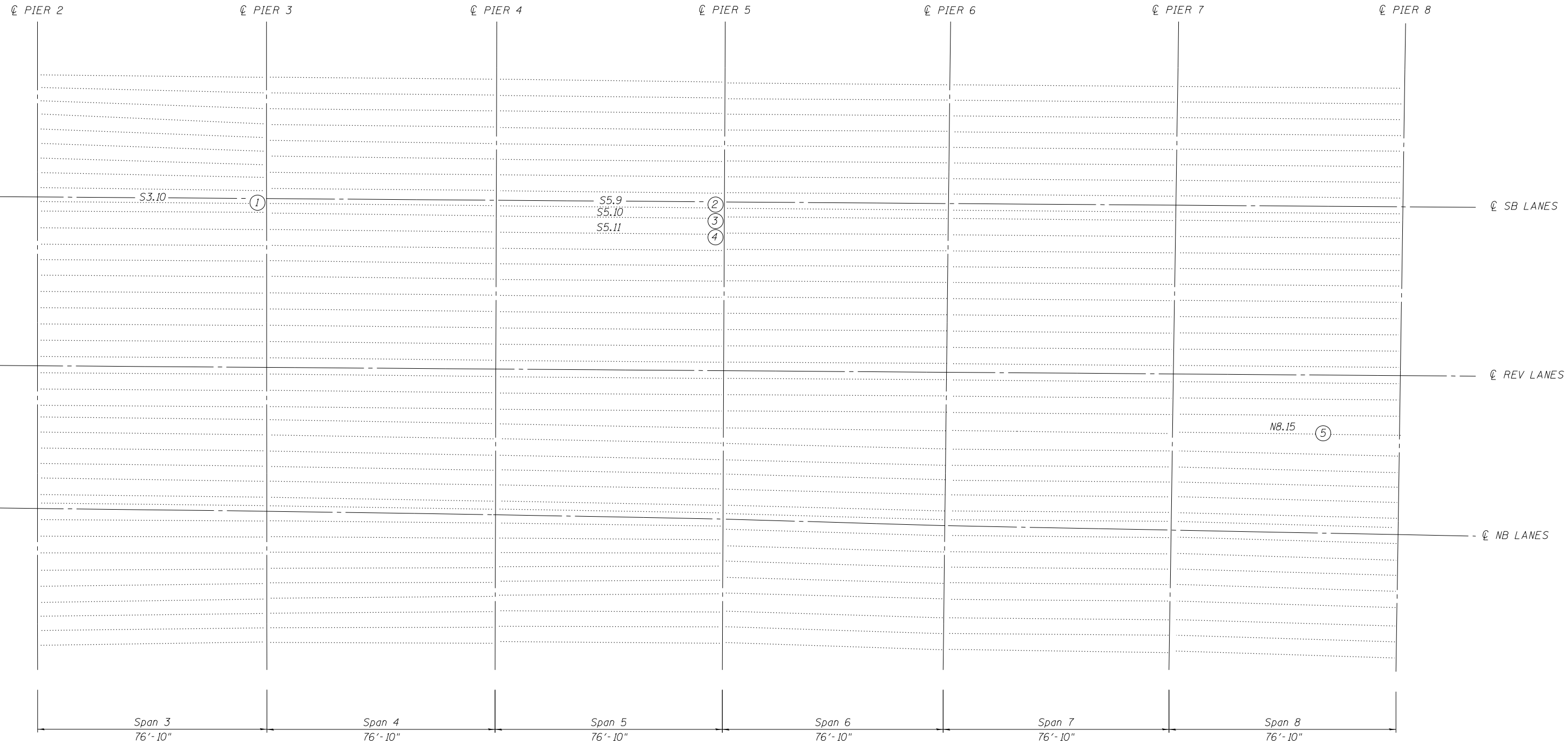
SECTION THROUGH EXISTING NEOPRENE JOINT

DETAIL 4

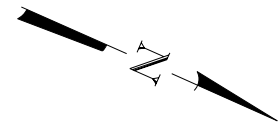


SECTION THROUGH PROPOSED SILICONE JOINT SEALER

Backer rod having a diameter 25% greater than joint opening at the time of installation.



PARTIAL FRAMING PLAN - SPANS 3-8



LEGEND

Indicates North/South/Reversible Portion of Structure

S3.9 Beam Designation

First Number Indicates Span, Second Number Indicates Beam

① PPC I-Beam Repair Location

Notes:
 Beams in the North Portion are numbered North to South.
 Beams in the Reversible Portion are numbered North to South.
 Beams in the South Portion are numbered South to North.

COLLINS ENGINEERS
 133 N. Wacker Dr.
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 Fax: (312) 704-9320
 www.collinsengr.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 084-000993

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

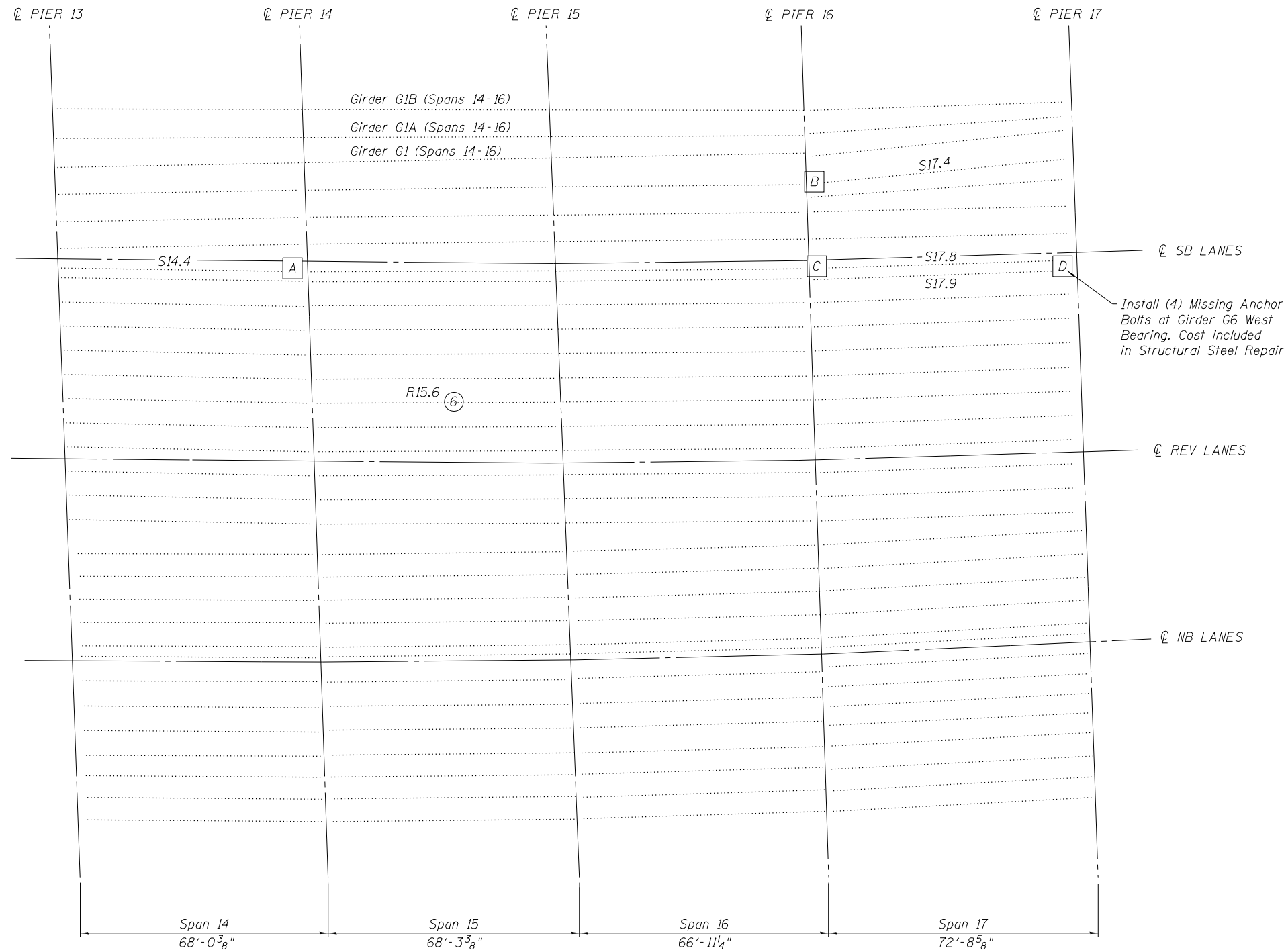
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PARTIAL FRAMING PLAN I
 I-90/94 OVER ASHLAND AVE (SN (016-0133))**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	68
CONTRACT NO.			60V58	

SHEET NO. S4 OF S34 SHEETS

ILLINOIS FED. AID PROJECT



PARTIAL FRAMING PLAN - SPANS 14-17

LEGEND

- Indicates North/South/Reversible Portion of Structure
- S3.9 Beam Designation
- First Number Indicates Span, Second Number Indicates Beam
- ① PPC I-Beam Repair Location
- A Structural Steel Repair Location

Notes:
 Beams in the North Portion are numbered North to South.
 Beams in the Reversible Portion are numbered North to South.
 Beams in the South Portion are numbered South to North.

COLLINS ENGINEERS
 133 N. Wacker Dr.
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 www.collinsengr.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	CHECKED - JMH	REVISED -
DATE - DECEMBER 2012		

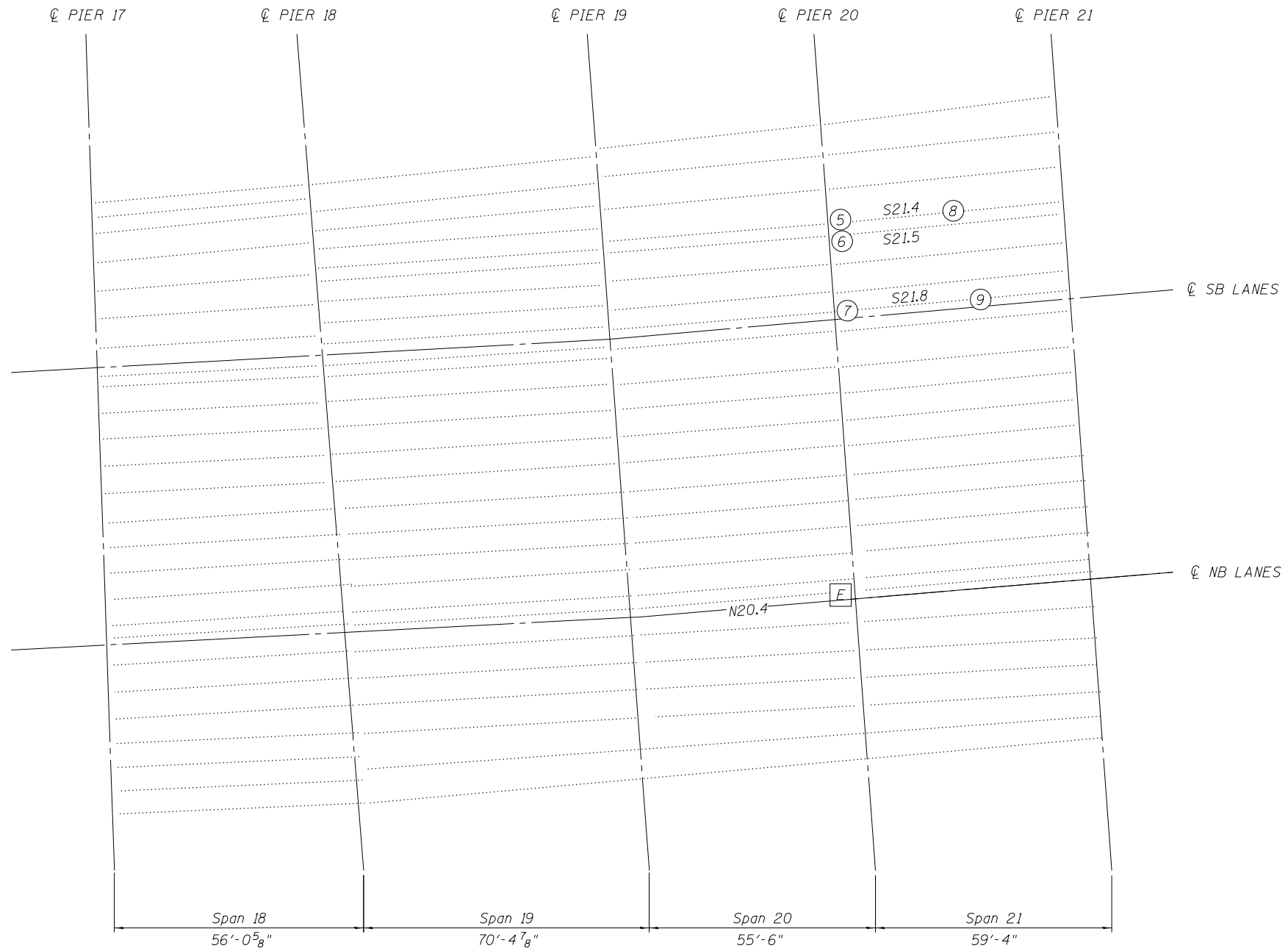
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PARTIAL FRAMING PLAN II
 I-90/94 OVER ASHLAND AVE (SN 016-0133)**

SHEET NO. 55 OF 534 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	69
CONTRACT NO.			60V58	

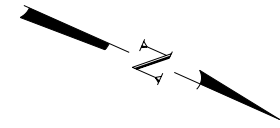
ILLINOIS FED. AID PROJECT



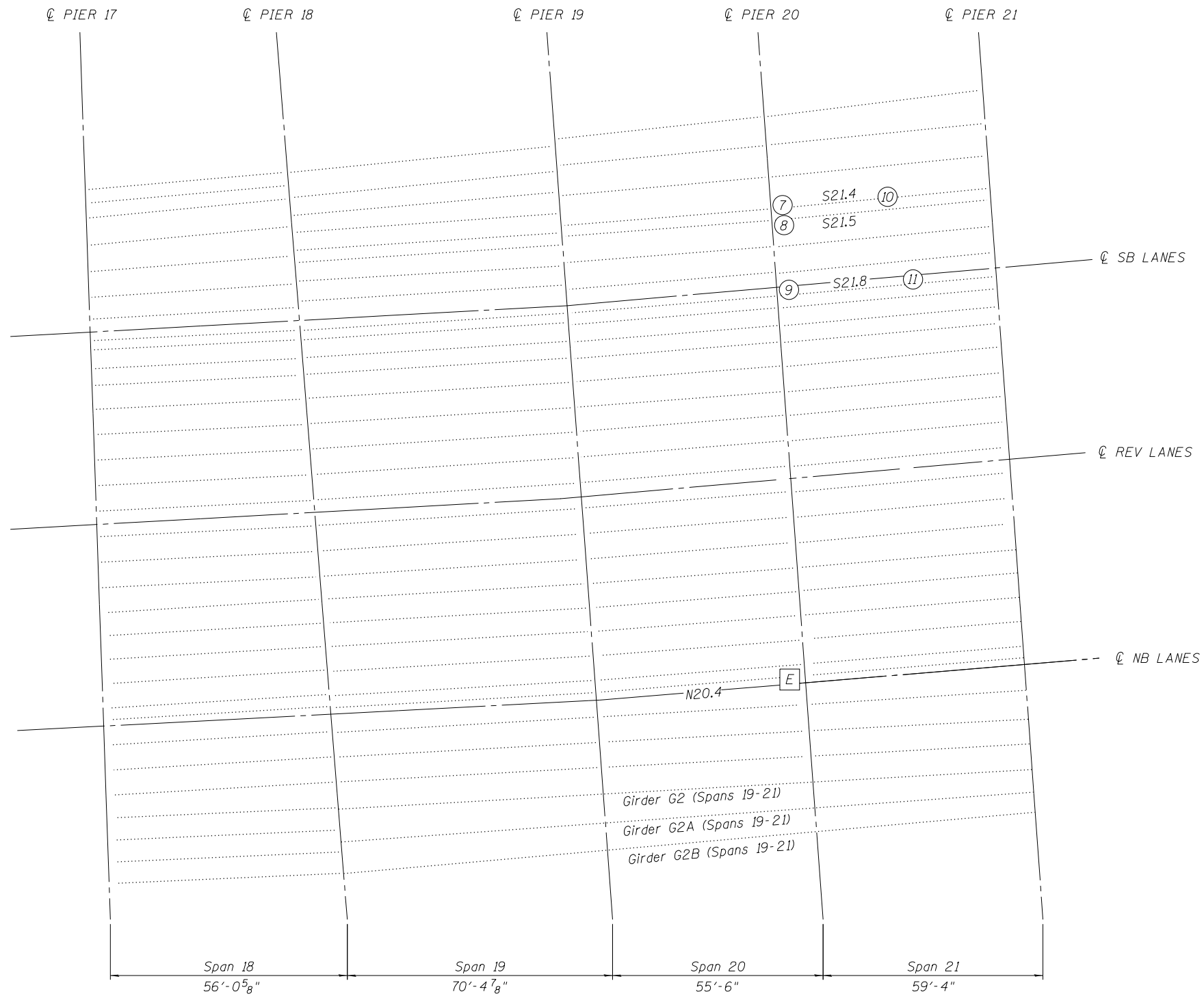
LEGEND

- S3.9 Beam Designation
- Indicates North/South Portion of Structure
- First Number Indicates Span, Second Number Indicates Beam
- (1) PPC I-Beam Repair Location
- A Structural Steel Repair Location

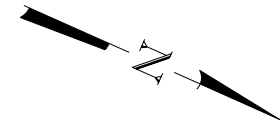
PARTIAL FRAMING PLAN - SPANS 18, 19, 20, & 21



COLLINS ENGINEERS <small>133 N. Wacker Dr. Suite 900 Chicago, IL 60606 Tel: (312) 704-9300 Fax: (312) 704-9320 www.collinsengr.com ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993</small>	USER NAME =	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARTIAL FRAMING PLAN II I-90/94 OVER ASHLAND AVE (SN 016-0133)	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - JMH	REVISED -			90/94	2012-055BR	COOK	107	70
	PLOT DATE =	DATE - DECEMBER 2012	REVISED -			CONTRACT NO. 60V58		SHEET NO. 56 OF 531 SHEETS		ILLINOIS FED. AID PROJECT



PARTIAL FRAMING PLAN - SPANS 18-21



Notes:
 Beams in the North Portion are numbered North to South.
 Beams in the Reversible Portion are numbered North to South.
 Beams in the South Portion are numbered South to North.

LEGEND

- Indicates North/South/Reversible Portion of Structure
- S3.9 Beam Designation
- First Number Indicates Span, Second Number Indicates Beam
- (1) PPC I-Beam Repair Location
- A Structural Steel Repair Location

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 133 N. Wacker Dr.
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 Chicago, IL 60606
 Tel: (312) 704-9300
 Fax: (312) 704-9320
 www.collinsengr.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - AMS	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

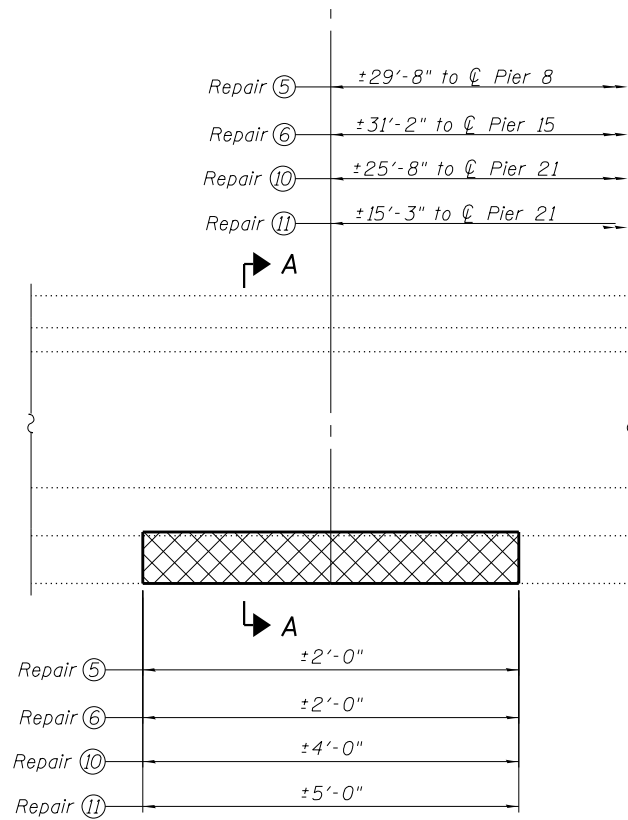
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PARTIAL FRAMING PLAN II
 I-90/94 OVER ASHLAND AVE (SN 016-0133)**

SHEET NO. 56 OF 534 SHEETS

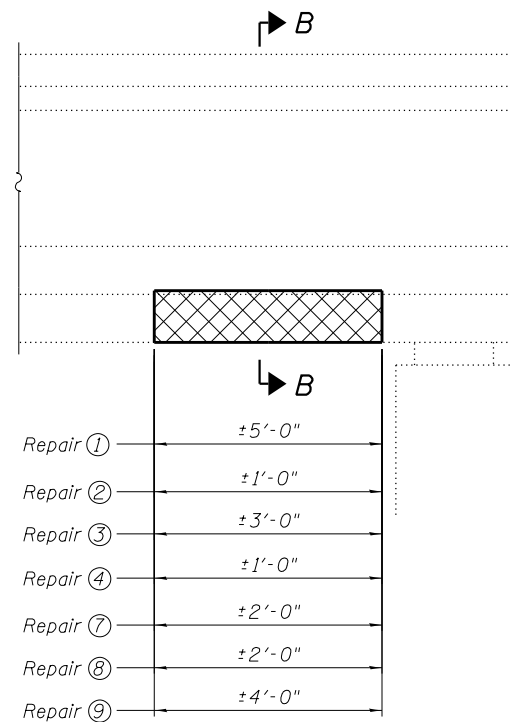
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	70A
CONTRACT NO. 60V58				

ILLINOIS FED. AID PROJECT



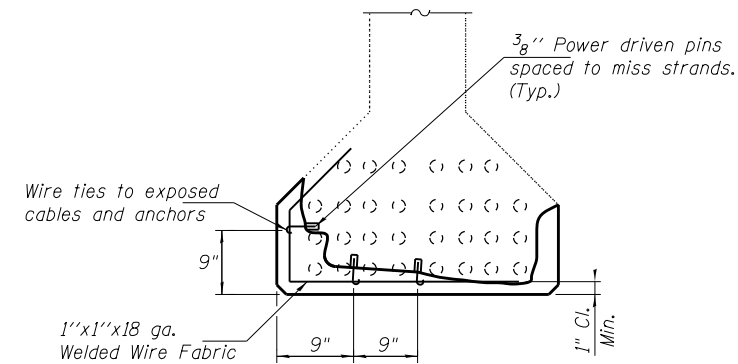
BEAM ELEVATION AT REPAIRS 5, 6, 10 & 11

See Preloading Requirements Below.
 Cross-Hatched areas indicate areas to be patched.
 Actual repair to be determined in the field.

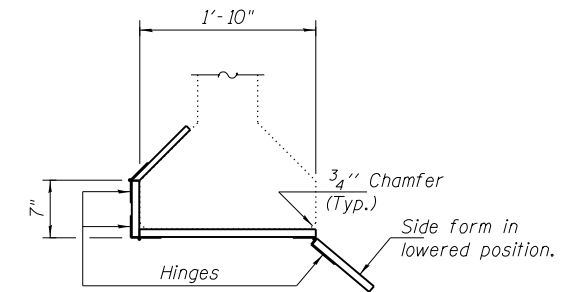


BEAM ELEVATION AT REPAIRS 1-4 & 7-9

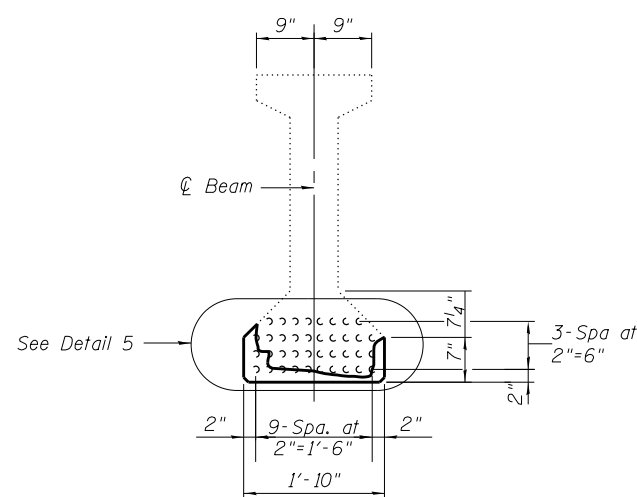
Cross-Hatched areas indicate areas to be patched.
 Actual repair to be determined in the field.



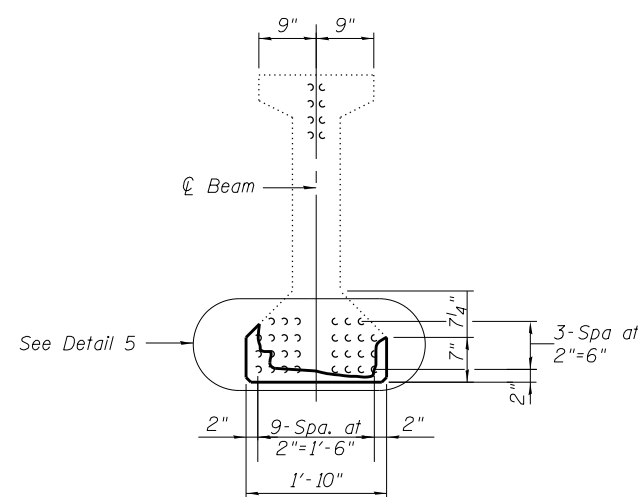
DETAIL 5



SUGGESTED FORM DETAIL



**SECTION A-A
 PATCHING DETAIL**



**SECTION B-B
 PATCHING DETAIL**

PPC I-BEAM REPAIR PROCEDURE:

- The damaged area of the beam shall be cleaned of all loose and spalled concrete. Hand tools shall be used for the removal of concrete adjacent to the prestressing strands. While a 15 pound chipping hammer may be used away from prestressing strands, extreme care shall be taken not to damage the exposed prestressing strands. Any exposed portions of the strands shall be sandblasted.
- Using the same tools, remove the existing concrete to sound concrete along the edges of the damaged area to a depth of 1" min. to 1 1/2" max. The edges shall be saw cut 3/4" deep or less.
- Power driven pins as shown in Detail A shall be placed at 9" alternate centers along damaged length of beam at locations shown in Detail 5. Use wire ties in areas where the strands are exposed as shown in Detail 5. Place 1" x 1" x 18 gauge welded wire fabric in repair areas and attach it to the pins or strands with wire ties. The clearance between the finished surface of the new concrete and the welded wire fabric shall be 1" minimum. All beams involved in this work shall be rebuilt to their original dimensions.
- All surfaces of the existing concrete in the areas to be repaired shall be prepared in accordance with Art. 503.09 (b) of the Standard Specs. The concrete beam to be repaired must be at a temperature of at least 50° F. or higher.
- The repair shall be made using a concrete meeting all the requirements specified in Section 1020 of the Standard Specifications for Class PS Concrete for precast prestressed concrete members, except the maximum size of the aggregate shall be 1/2". Place the lower form on the bottom of the beam and compact by vibrating (or other approved methods) the concrete mix into the voids. After accessible voids have been filled and compacted, the top vertical form shall be raised into position and the remaining voids filled and compacted. The sloping upper surface shall be finished to the configuration of the existing PPC I-Beam flange.

Note:
 The cost of preloading, concrete removal, Class PS Concrete, power driven pins, wire ties, wire mesh, epoxy bonding agent, epoxy crack sealing and all other work required to preform repairs at locations 1-11 shall be included in the unit cost Lump Sum of Precast Prestressed Concrete I-Beam Repairs.

PRELOADING FOR PPC I-BEAM REPAIRS

(Service Moment)

Prior to beginning any work, the Contractor shall be responsible for providing a preloading system on the bridge deck over the existing damaged beams. The preloading system should produce a total maximum service load moment (including impact) as tabulated below at the centerline of the damaged areas. The Contractor's proposed preloading system, with computations, shall be submitted to the Bureau of Bridge's and Structures for approval. The preloading system shall be placed shortly after bridge closure for repairs.

Span	Beam	Location		* Moment (kip-ft)
		From	Distance	
8	N8.15	Cl Pier 8	38'-5"	543.9*
15	R15.6	Cl Pier 15	34'-1 1/16"	664.1*
21	S21.4	Cl Pier 21	29'-8"	515.7
21	S21.8	Cl Pier 21	29'-8"	446.1

*The magnitude of the moments to be applied were obtained by assuming a simple span behavior between the fascia and first interior beams (2002 AASHTO 3.23.2.3.1.2) for Live Load + Impact. The effect of the proposed preload system shall be determined using the same assumption.

Note:
 Preloading shall be kept in place for at least three (3) days after completion of concrete repair or until the concrete has reached an ultimate strength of 5,000 psi.

BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Precast Prestressed Concrete I-Beam Repairs	L. Sum	1

LEGEND

For Sheets S8 and S9

- - Existing Bolt/Rivet to Remain
 - - Remove Existing Bolt/Rivet and Install New Bolt
 - - Drill New Bolt Hole and Install New Bolt
- N.S. indicates Near Side.

STRUCTURAL STEEL REPAIR NOTES

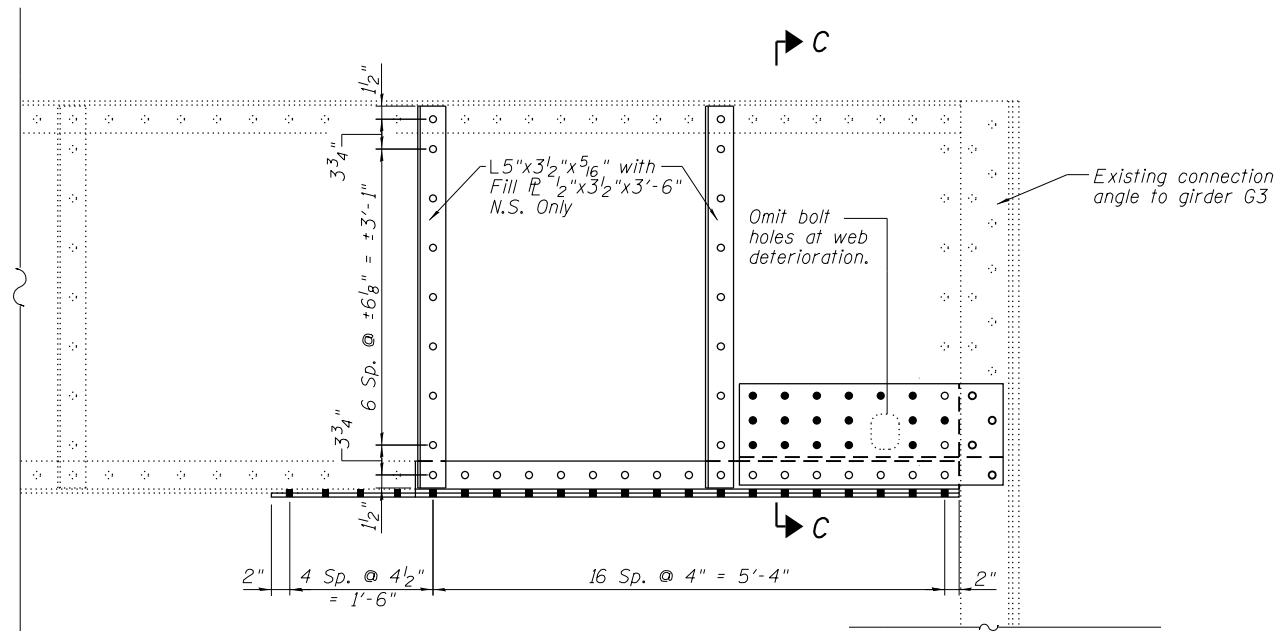
For Sheets S8 and S9

1. 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 fabrication, 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.
2. The Contractor shall perform the structural steel repairs during the weekend and/or night closures of the lanes above the structural steel repair areas.
3. The details shown are the final configurations and details. The Contractor shall be responsible for obtaining approval from the Engineer for all methods and procedures necessary to achieve the details shown.
4. Removal and disposal of all structural steel necessary to complete the work as detailed on the plans shall be performed in accordance with Section 501 of the Standard Specifications and included is in the cost of Structural Steel Repair.
5. Where existing structural steel is shown to be removed, the Contractor shall exercise care during removal of existing structural steel to ensure that the adjacent structural steel will not be detrimentally impacted. The Contractor shall repair any damage to the existing structural steel caused by his operation as directed by the Engineer at no additional cost to the Department.
6. Fasteners shall be ASTM A325, Type 1 mechanically galvanized bolts. Bolts $\frac{7}{8}$ " ϕ , holes $\frac{15}{16}$ " ϕ , unless noted otherwise.
7. Holes shall be subpunched or subdrilled $\frac{13}{16}$ " ϕ and reamed in the field to $\frac{15}{16}$ " ϕ for $\frac{7}{8}$ " ϕ , bolts unless noted otherwise.
8. Where removal of existing rivets is required to facilitate the work, remove rivets and replace with the same diameter high strength bolts, unless noted otherwise.
9. Burning of existing rivets or bolts will not be permitted when the subject fasteners are installed in existing structural steel to remain in place. Such rivets and bolts shall have the head of the fastener sheared off and the shank driven or drilled out. Extreme care shall be exercised when removing such fasteners so as not to damage the existing structural steel to remain. Removal of such fasteners will not be measured for payment but shall be included in the cost of the associated work. Any damage to the existing structural steel to remain in place due to the removal of such fasteners shall be repaired or replaced to the satisfaction of the Engineer at no additional cost to the Department.
10. No field welding will be permitted except as specified in the Contract Documents.
11. All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
12. Ends of stiffener angle fill plates shall be clipped an/or ground to match top and bottom flange angle fillets. Cost included in Structural Steel Repair.
13. Anchor bolts shall be ASTM F1554, Grade 55.
14. Anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

BILL OF MATERIAL

For Sheets S8 and S9

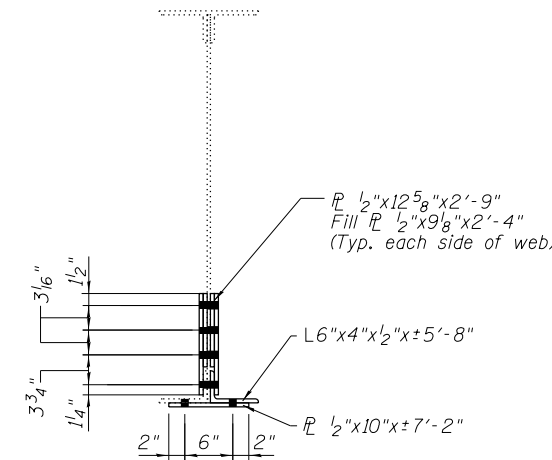
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Structural Steel Repair	Pound	3,310



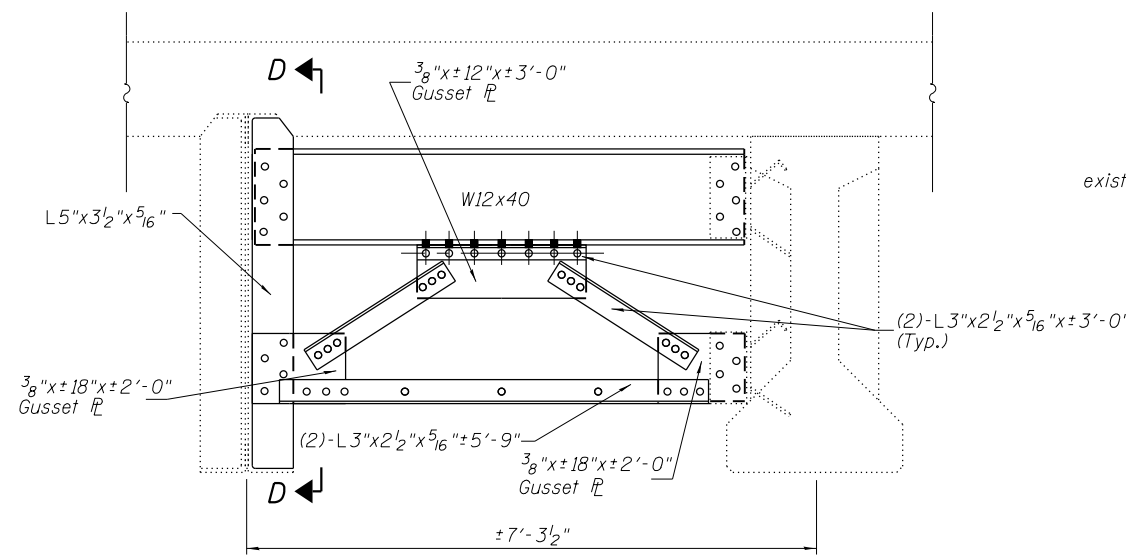
EAST ELEVATION

Looking West

STEEL REPAIR A



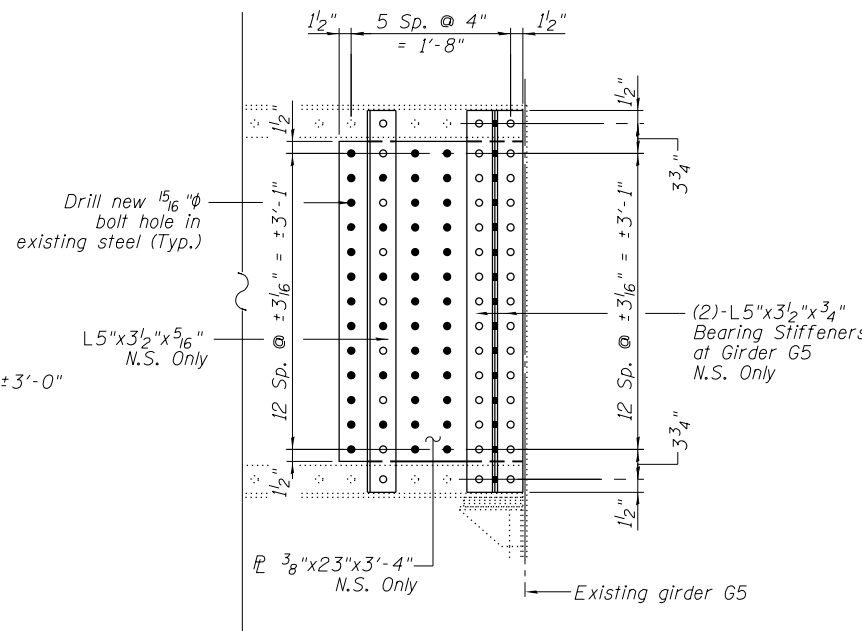
SECTION C-C



NORTH ELEVATION

Looking South

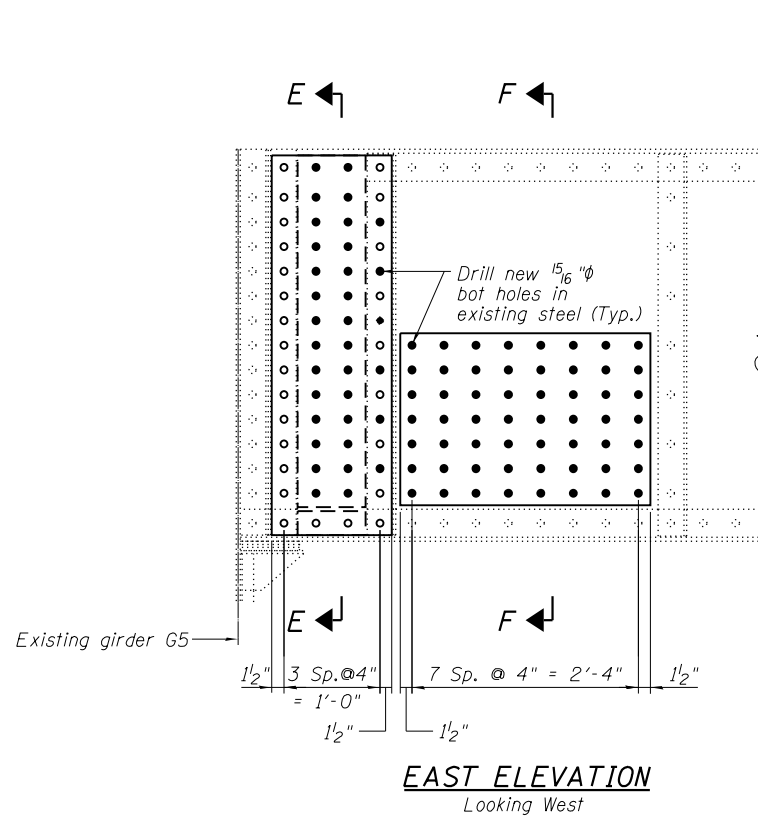
STEEL REPAIR B



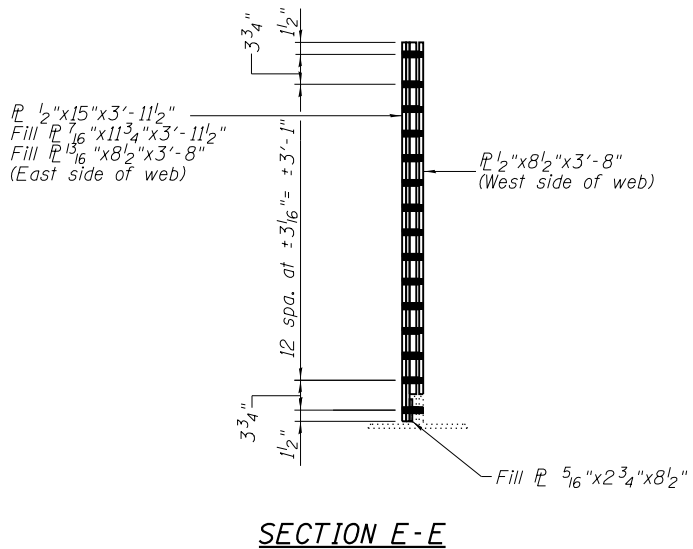
SECTION D-D

USER NAME =	DESIGNED - JMS	REVISED -
PLOT SCALE =	DRAWN - LS	REVISED -
PLOT DATE =	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

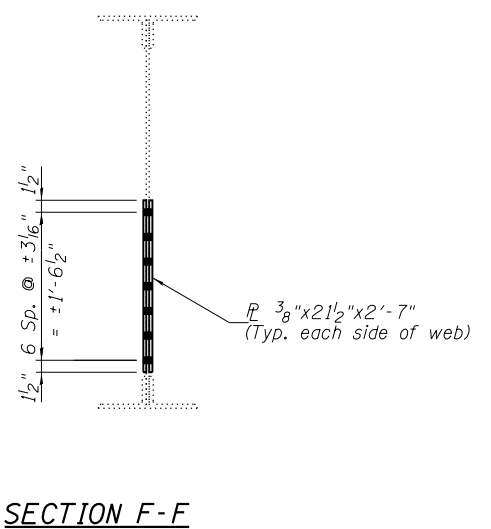
F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 70C
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



EAST ELEVATION
Looking West



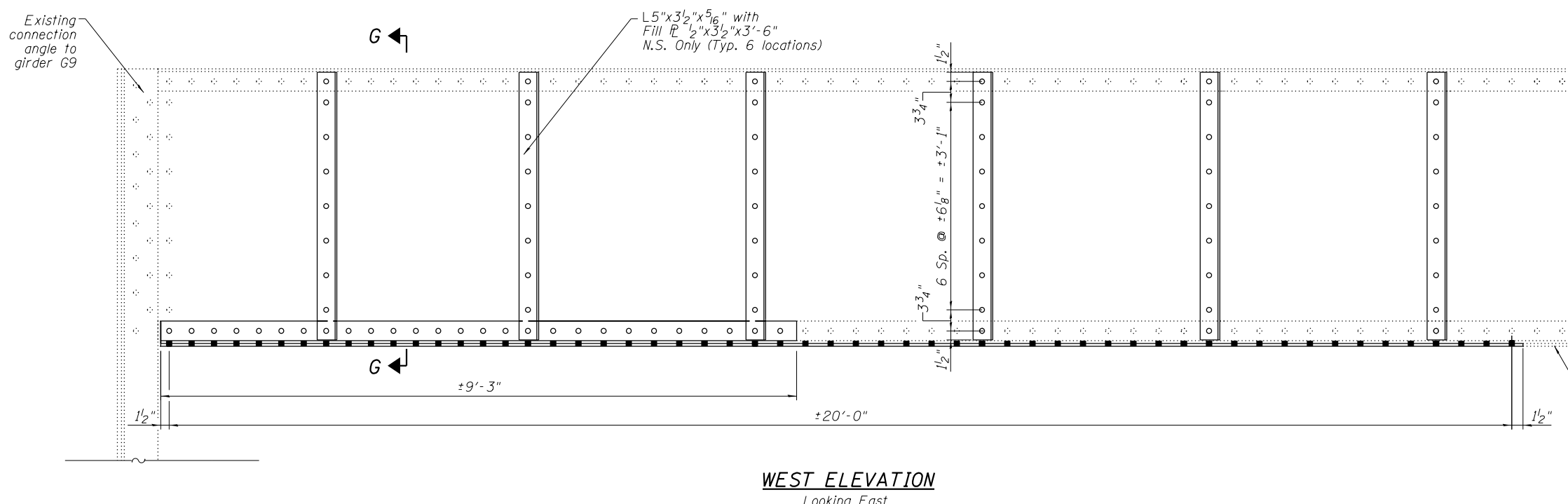
SECTION E-E



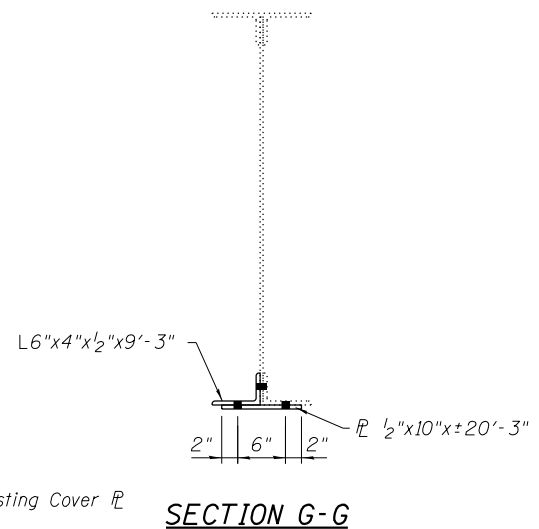
SECTION F-F

Note:
Refer to Sheet S8 for
Structural Steel Repair
Legend, Notes, and Bill
of Materials.

STEEL REPAIR C



WEST ELEVATION
Looking East



SECTION G-G

STEEL REPAIR E

COLLINS ENGINEERS
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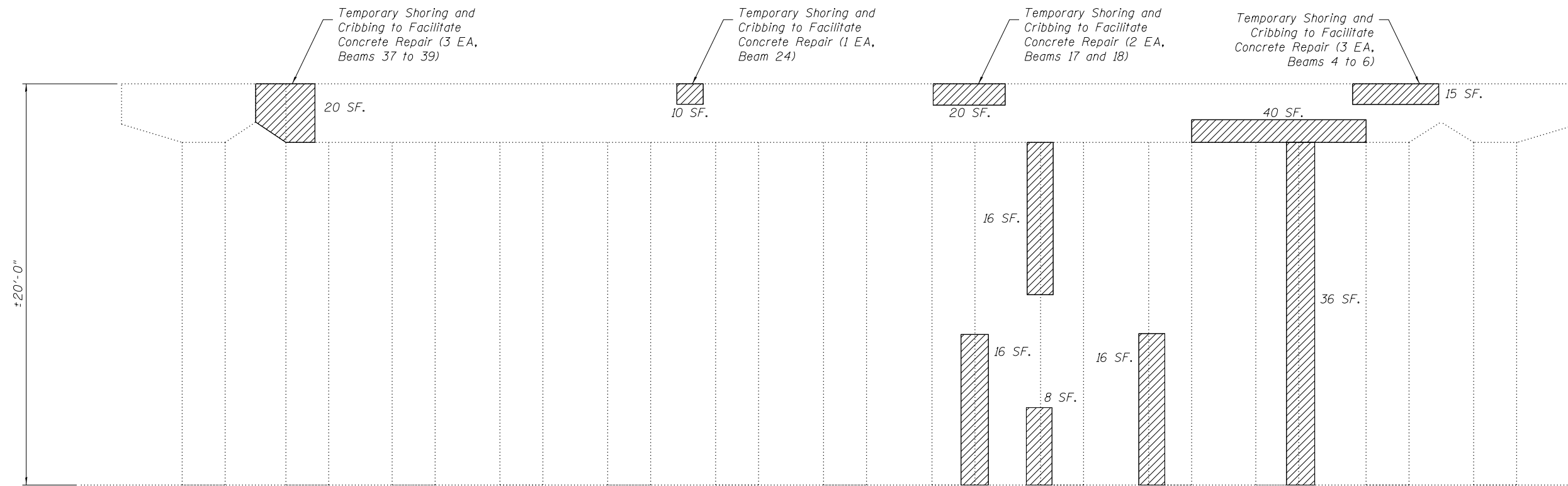
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DRAWN - LS	REVISED -	
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS II
I-90/94 OVER ASHLAND AVE (SN 016-0133)

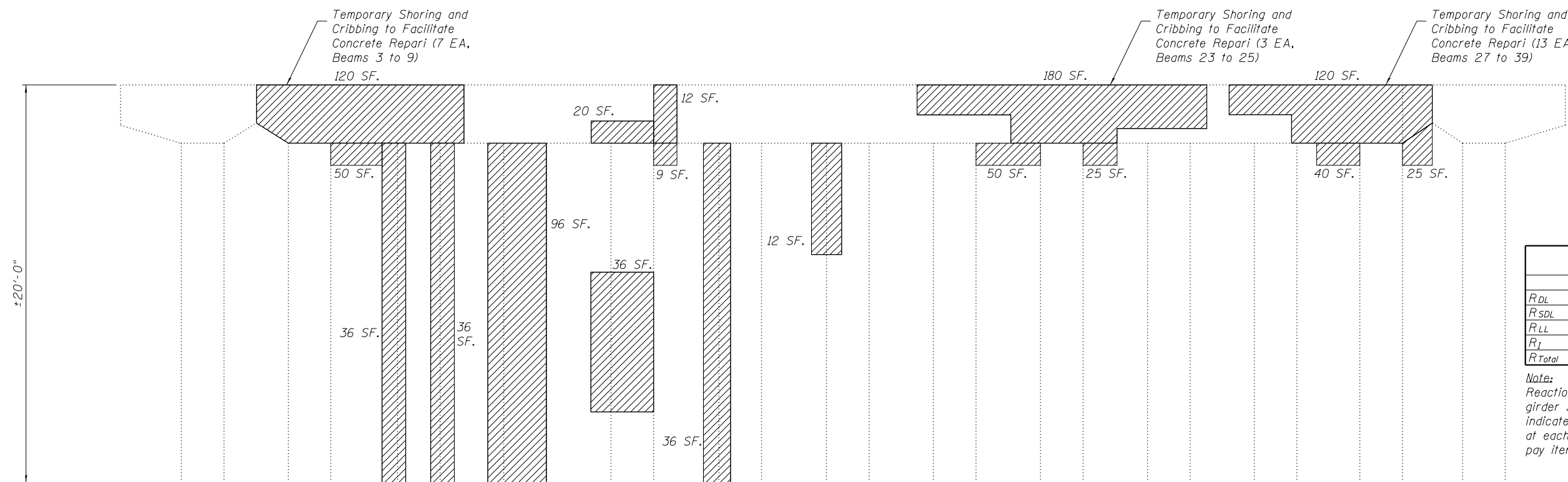
SHEET NO. S9 OF S34 SHEETS

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 70D
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



PIER 1 SOUTH ELEVATION
(Looking North)

Note:
Beams are numbered East to West.



PIER 1 NORTH ELEVATION
(Looking South)

PIER 1 GIRDER REACTION TABLE		
	Span 1	Span 2
R _{DL} (k)	48.3	46.8
R _{SDL} (k)	13.1	12.4
R _{LL} (k)	33.0	30.6
R _T (k)	8.3	7.7
R _{Total} (k)	102.7	97.5

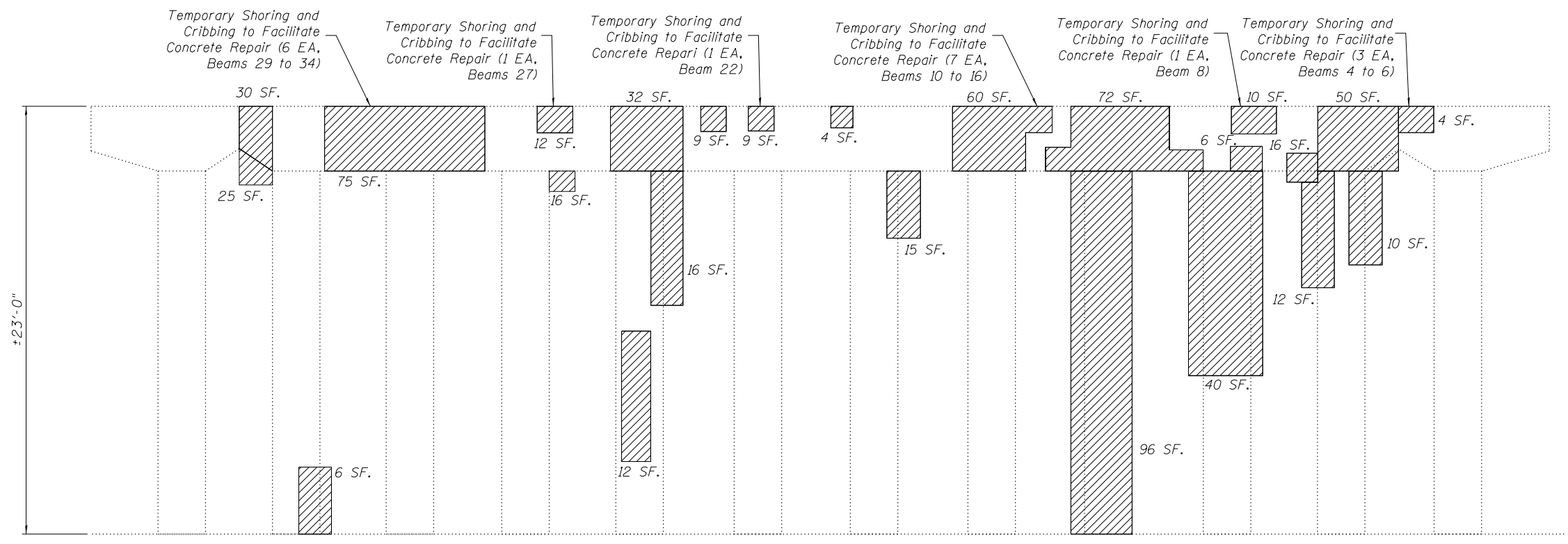
Note:
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

BILL OF MATERIAL

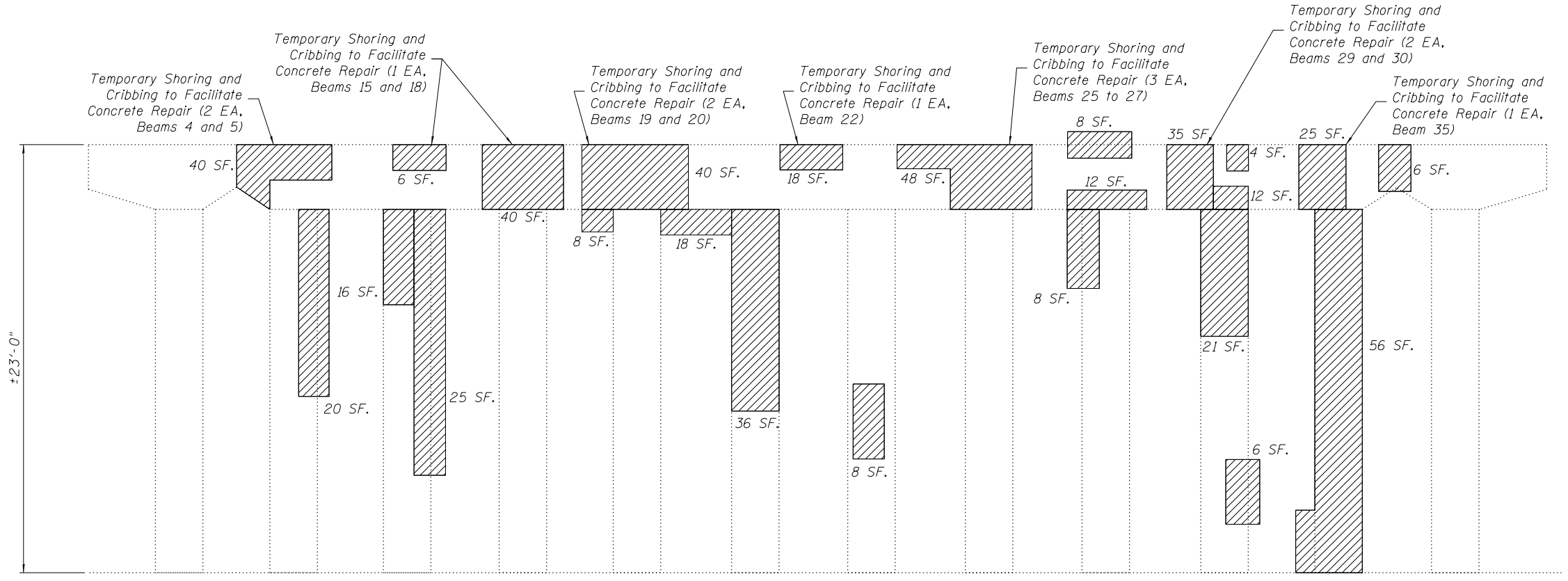
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	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1100
	Temporary Shoring and Cribbing	Each	32

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - DR	REVISOR -	
PLLOT SCALE =	CHECKED - JMH	REVISED -
PLLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	71
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	



PIER 2 SOUTH ELEVATION
(Looking North)



PIER 2 NORTH ELEVATION
(Looking South)

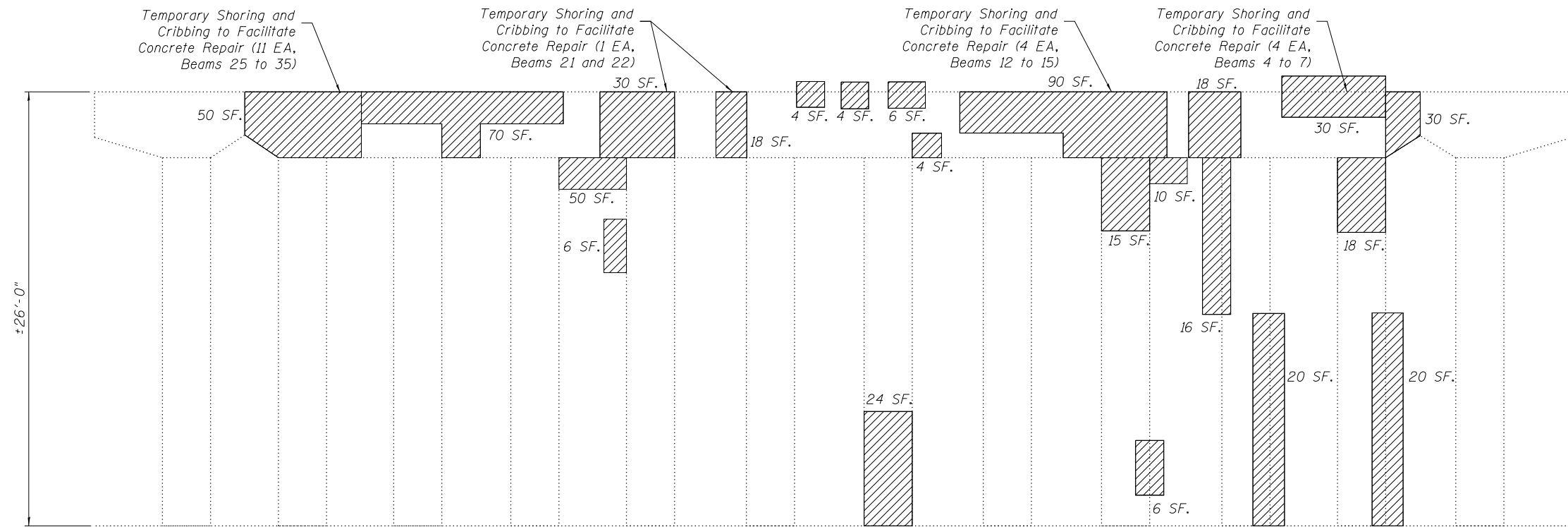
Note:
Beams are numbered East to West.

PIER 2 GIRDER REACTION TABLE		
	Span 2	Span 3
R _{DL} (k)	46.8	47.8
R _{SDL} (k)	12.4	12.8
R _{LL} (k)	30.6	32.0
R _T (k)	7.7	8.0
R _{Total} (k)	97.5	100.6

Note:
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

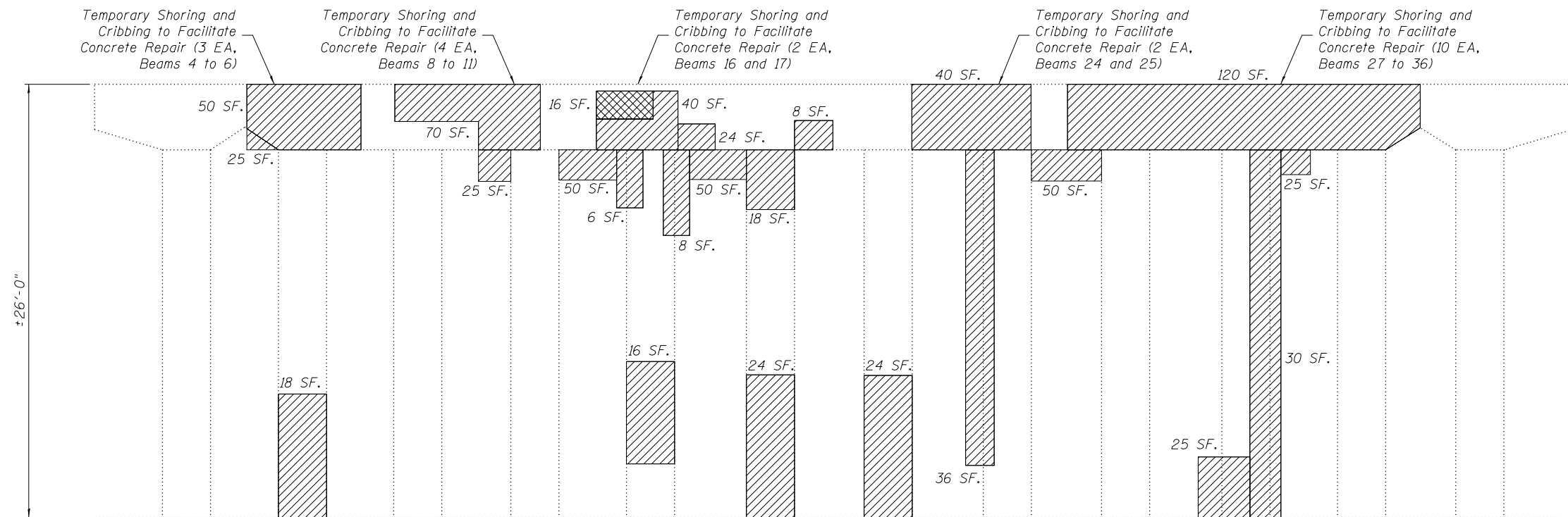
BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1153
	Temporary Shoring and Cribbing	Each	32



PIER 3 SOUTH ELEVATION
(Looking North)

Note:
Beams are numbered East to West.



PIER 3 NORTH ELEVATION
(Looking South)

PIER 3 GIRDER REACTION TABLE		
	Span 3	Span 4
R _{DL} (k)	47.8	49.8
R _{SDL} (k)	12.8	13.9
R _{LL} (k)	32.0	35.4
R _T (k)	8.0	8.9
R _{Total} (k)	100.6	108.0

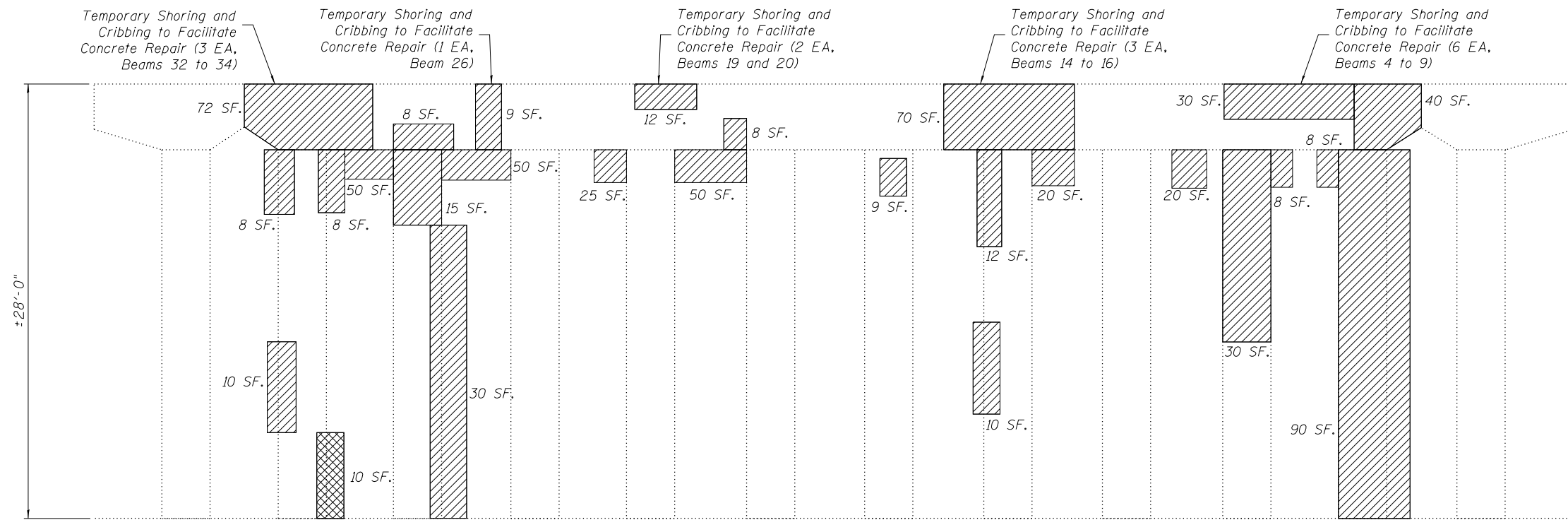
Note:
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1321
	Structural Repair of Concrete, (Depth Greater Than 5")	Sq. Ft.	16
	Temporary Shoring and Cribbing	Each	42

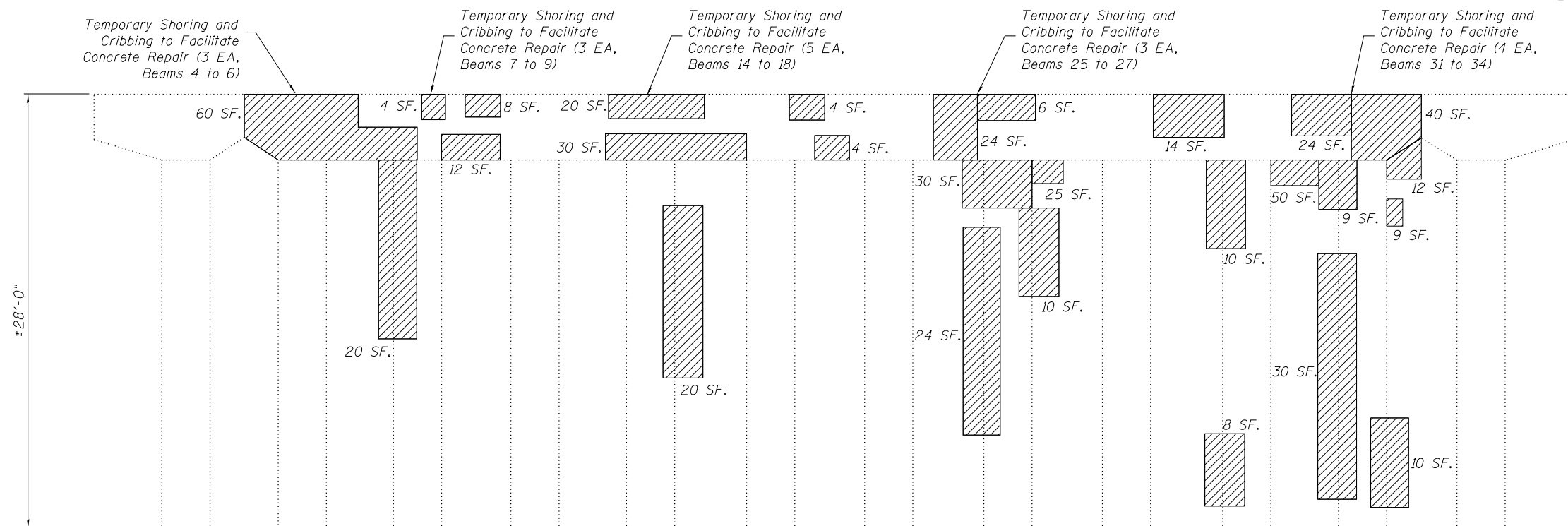
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DRAWN - DR	REVISOR -	REVISION -
CHECKED - JMH	REVISOR -	REVISION -
DATE - DECEMBER 2012	REVISOR -	REVISION -

F.A.I. RTÉ. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 73
			CONTRACT NO. 60V58	
ILLINOIS FED. AID PROJECT				



PIER 4 SOUTH ELEVATION

(Looking North)



PIER 4 NORTH ELEVATION

(Looking South)

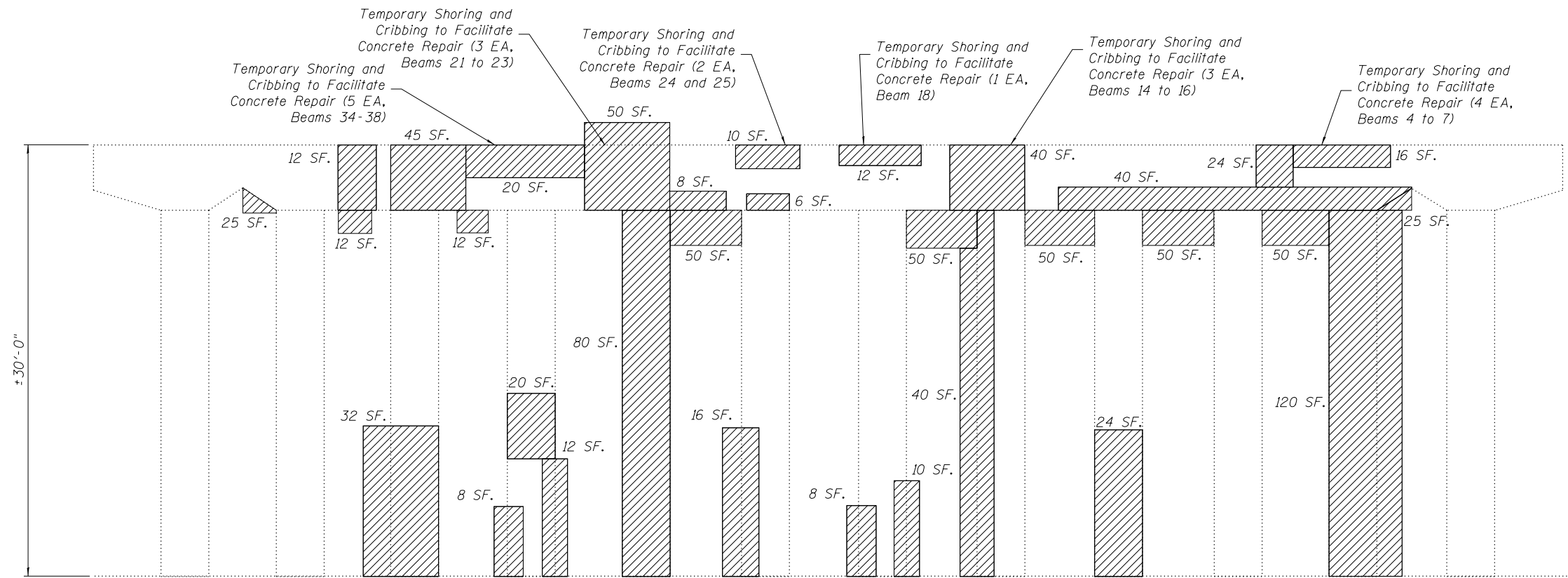
Note:
Beams are numbered East to West.

PIER 4 GIRDER REACTION TABLE		
	Span 4	Span 5
R _{DL} (k)	49.8	49.8
R _{SDL} (k)	13.9	13.9
R _{LL} (k)	35.4	35.4
R _T (k)	8.9	8.9
R _{Total} (k)	108.0	108.0

Note:
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

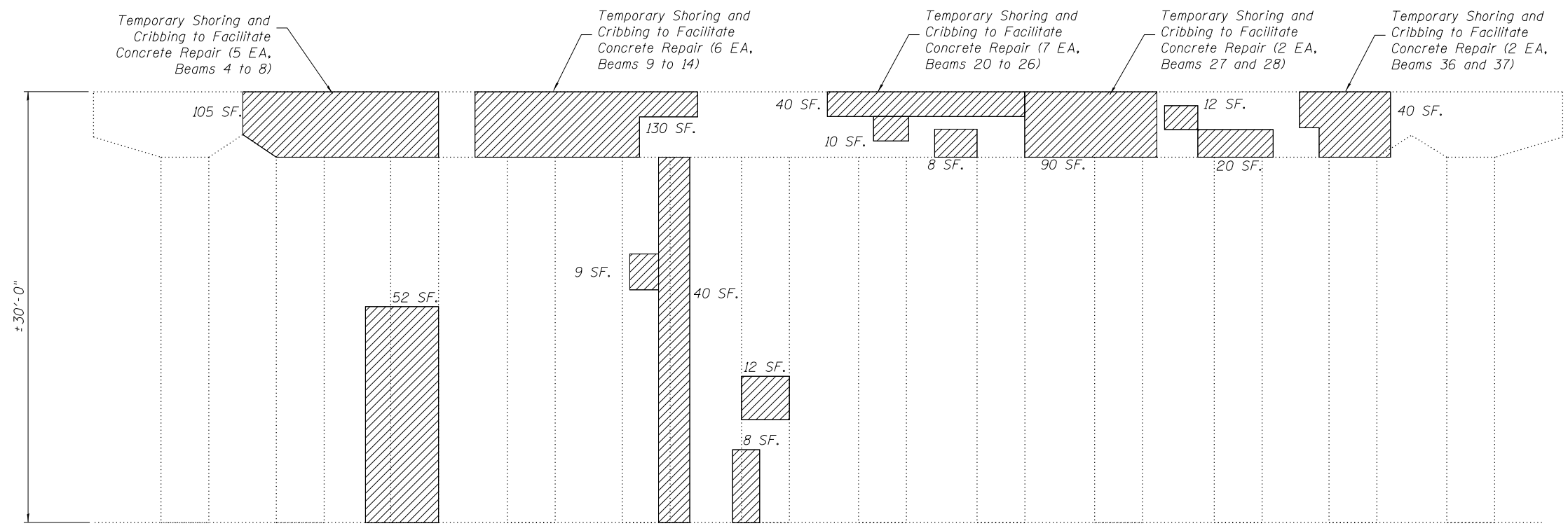
BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1219
	Structural Repair of Concrete, (Depth Greater Than 5")	Sq. Ft.	10
	Temporary Shoring and Cribbing	Each	33



PIER 5 SOUTH ELEVATION
(Looking North)

Note:
Beams are numbered East to West.



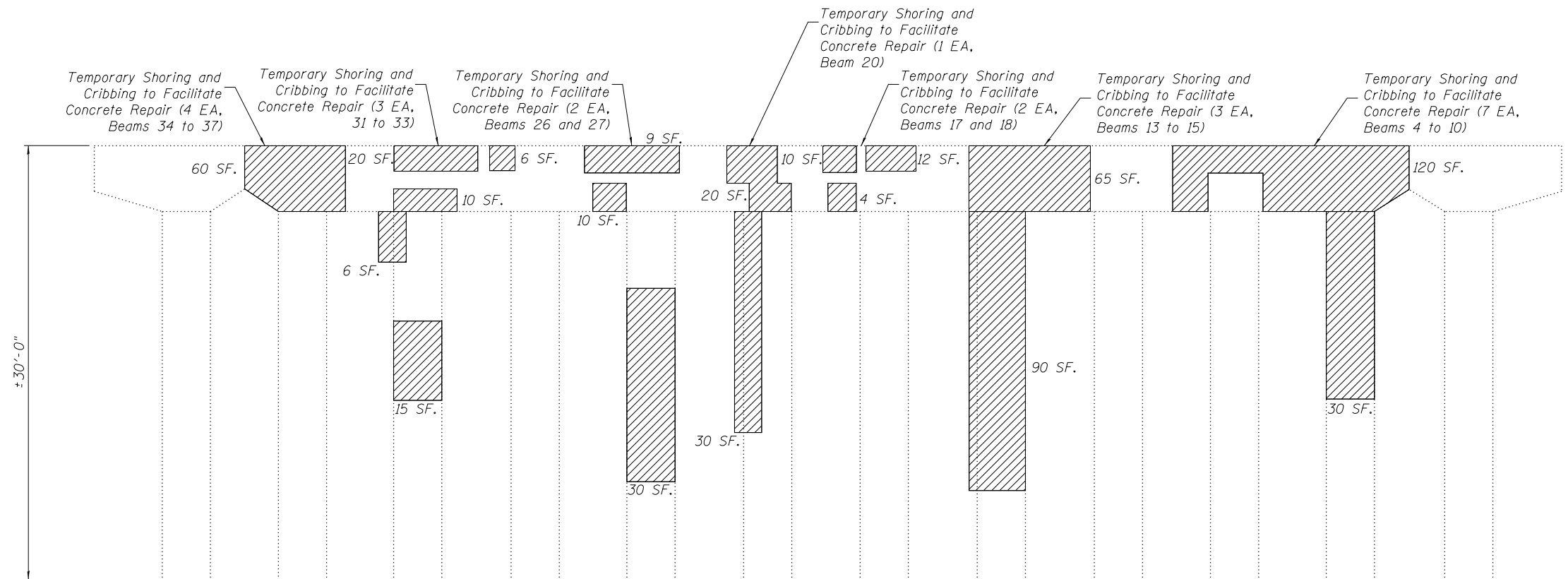
PIER 5 NORTH ELEVATION
(Looking South)

PIER 5 GIRDER REACTION TABLE		
	Span 5	Span 6
R _{DL} (k)	49.8	50.7
R _{SDL} (k)	13.9	14.6
R _{LL} (k)	35.4	36.8
R _T (k)	8.9	9.2
R _{Total} (k)	108.0	111.3

Note:
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

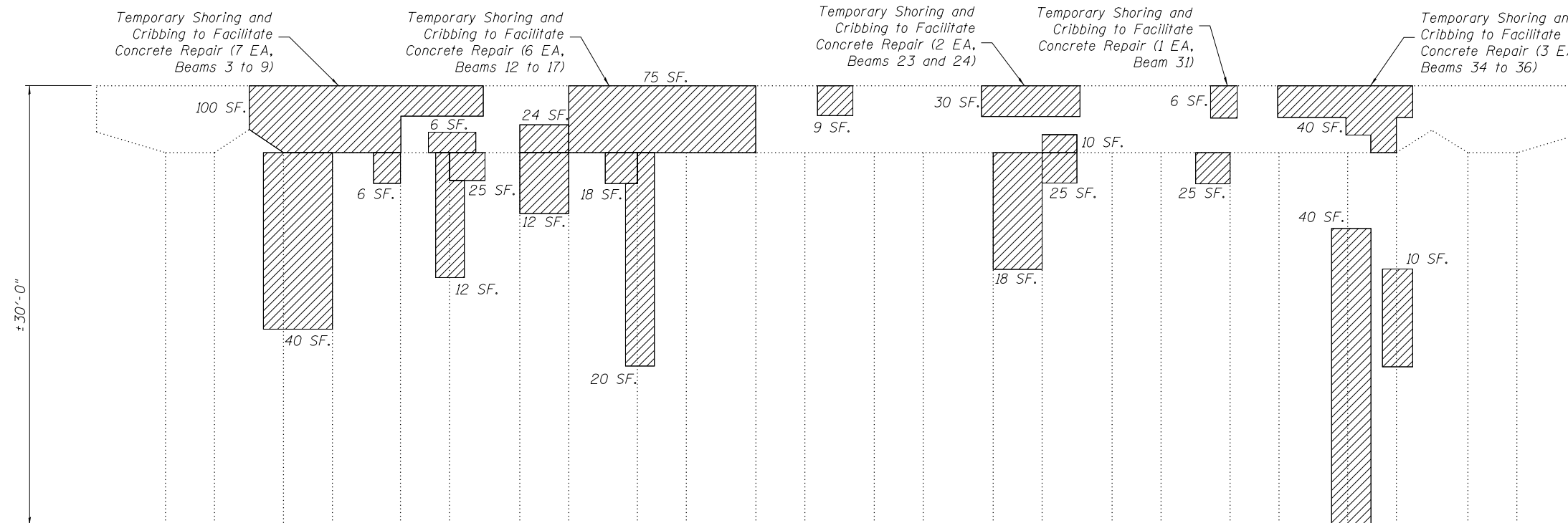
BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1553
	Temporary Shoring and Cribbing	Each	40



PIER 6 SOUTH ELEVATION
(Looking North)

Note:
Beams are numbered East to West.



PIER 6 NORTH ELEVATION
(Looking South)

PIER 6 GIRDER REACTION TABLE		
	Span 6	Span 7
R _{DL} (k)	50.7	50.7
R _{SDL} (k)	14.6	14.6
R _{LL} (k)	36.8	36.8
R _T (k)	9.2	9.2
R _{Total} (k)	111.3	111.3

Note:
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1098
	Temporary Shoring and Cribbing	Each	41

USER NAME =	DESIGNED - AMS	REVISED -
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PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

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CONTRACT NO. 60V58				ILLINOIS FED. AID PROJECT