

013

03-08-2019 LETTING ITEM 013

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 42 + 8 = 50 TOTAL SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
211	2017-0231	42	1
CONTRACT NO. 62F37			

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF LA GRANGE

TRAFFIC DATA

US 34 - OGDEN AVE.

ADT (2015) = 25,500

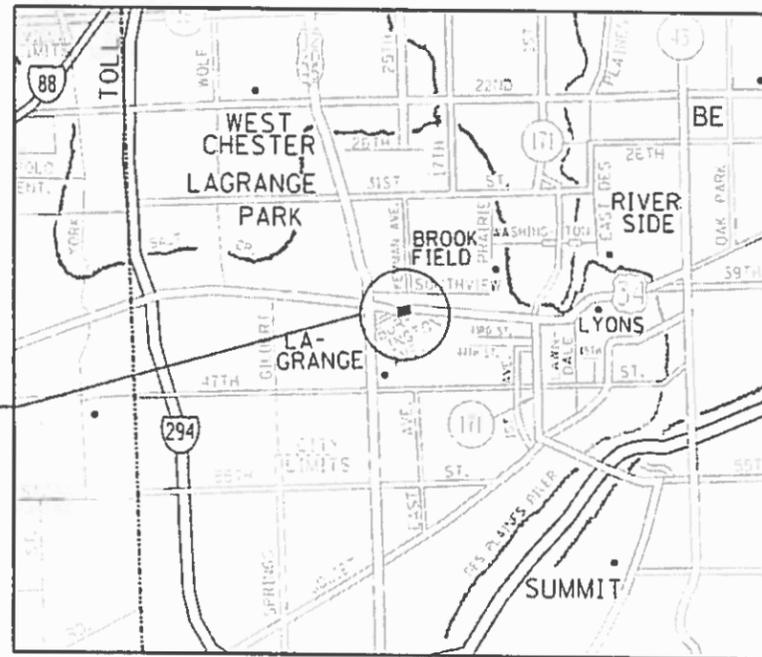
POSTED SPEED LIMIT = 30 MPH

PROPOSED  
HIGHWAY PLANS

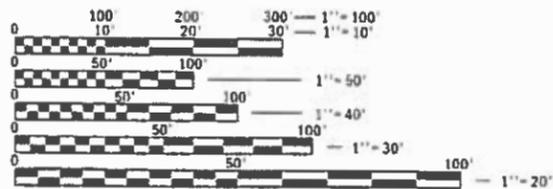
F.A.P. ROUTE 311: US 34 (OGDEN AVE.)  
AT IHB RAILROAD  
SECTION: 2017-0231  
PROJECT: NHPP-G4BQ (794)  
BRIDGE REPAIR / BRIDGE JOINT REPAIR  
COOK COUNTY

C-91-287-17

R. 12 E.



LOCATION OF IMPROVEMENT SN 016-0225



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

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62F37

GROSS & NET LENGTH = 326.0 FT. = 0.062 MILE



LOCATION OF SECTION INDICATED THUS: [Symbol]

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED ~~December 4~~ 2018

*Anthony J. Angilly* REGIONAL ENGINEER  
Feb 19 2019

*E.A. Elk* ENGINEER OF DESIGN AND ENVIRONMENT  
Feb 19 2019

*Paul A. [Signature]* PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

1.	TITLE SHEET
2.	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3.	SUMMARY OF QUANTITIES
* 4-28.	BRIDGE REHABILITATION PLANS (SN 016-0225)
29-33.	TRAFFIC CONTROL STAGING PLANS
34-35.	PAVEMENT MARKING PLAN
36.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
37.	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
38.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
39.	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
40.	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
41.	ARTERIAL ROAD INFORMATION SIGN (TC-22)
42.	DRIVEWAY ENTRANCE SIGNING (TC-26)

\* INCLUDES SHEETS 10A, 11A, 13A, 14A, 15A AND 19A - 19C

## STATE STANDARDS

STANDARD NO.	DESCRIPTION
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, > 15' AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS $\leq$ 40 MPH
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF LA GRANGE.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

THE ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, MS. PATRICE HARRIS AT PATRICE.HARRIS@ILLINOIS.GOV NO LATER THAN TWO (2) WEEKS PRIOR TO PLACING ANY PERMANENT PAVEMENT MARKINGS.

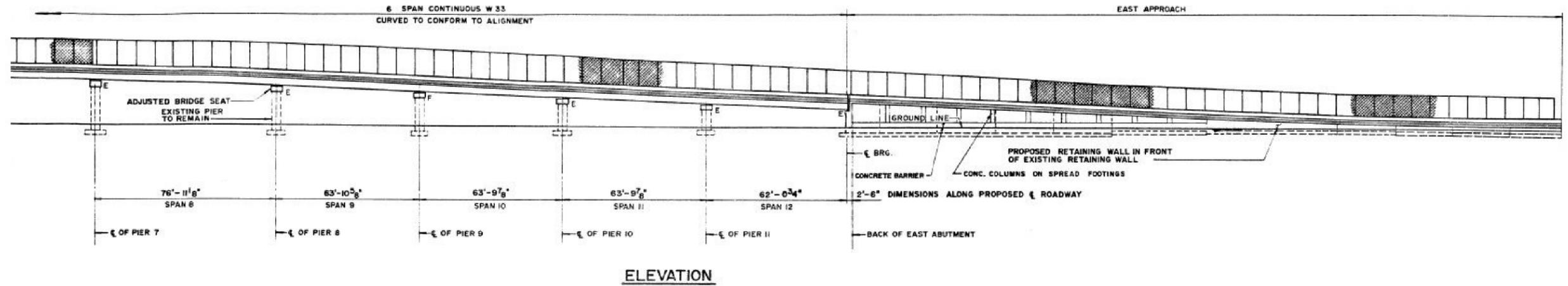
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REV. - MS

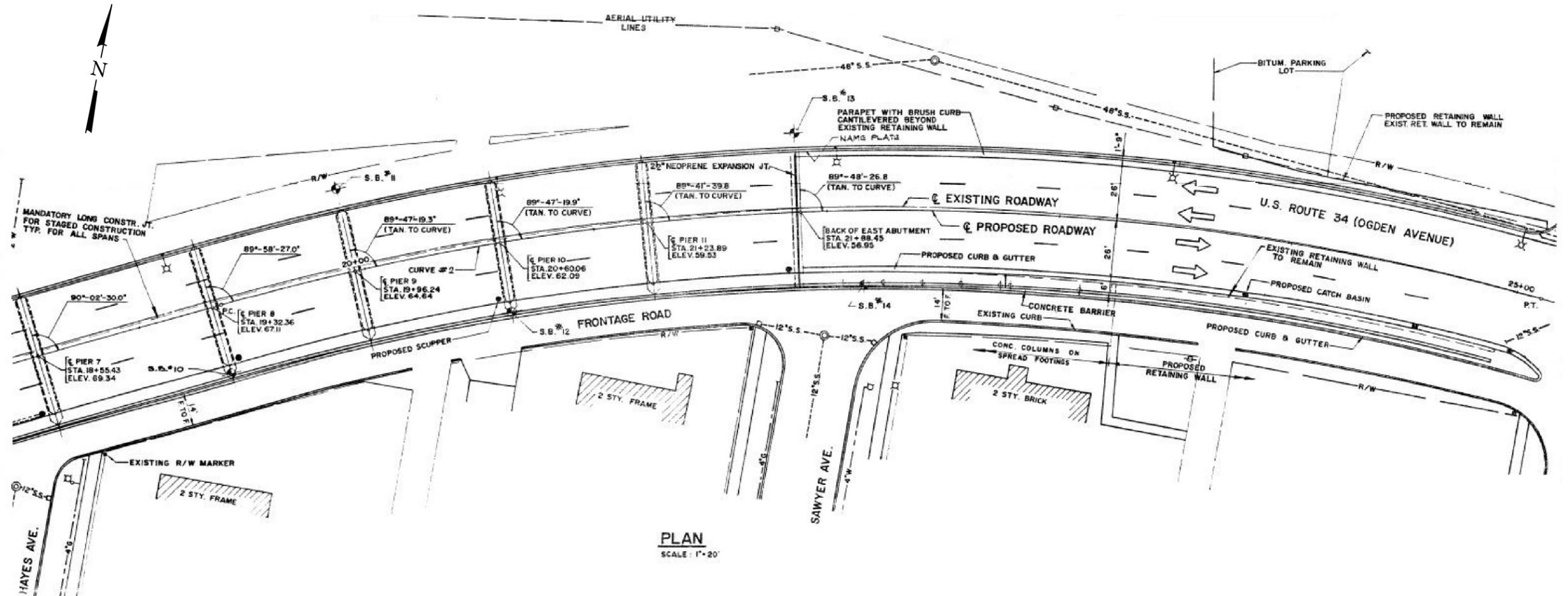
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DRAWN -	REVISED -	311				2017-023I	COOK	42	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:		SHEET	OF	SHEETS	STA.	TO STA.
PLOT DATE = 12/14/2018	DATE -	REVISED -						ILLINOIS FED. AID PROJECT		CONTRACT NO. 62F37





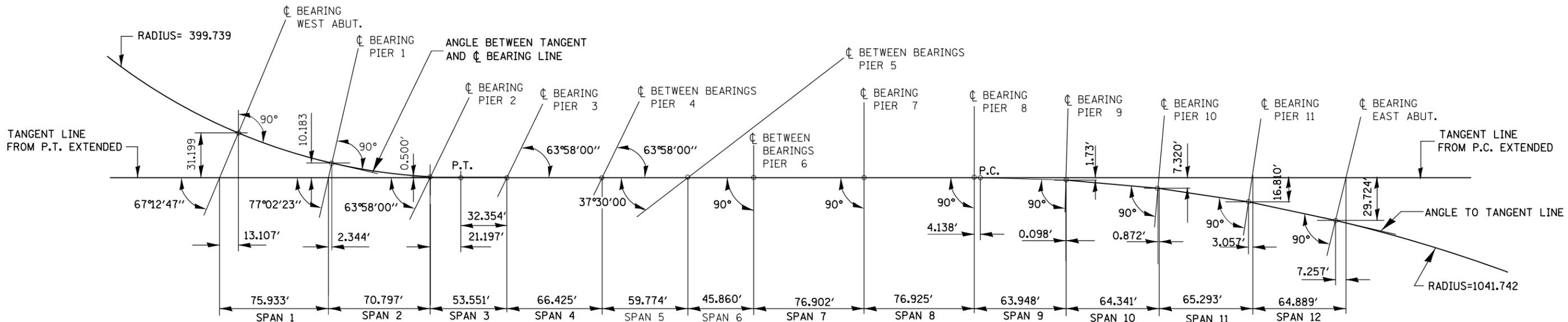
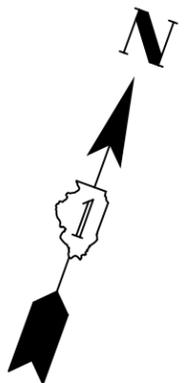


ELEVATION



PLAN  
SCALE: 1" = 20'

DESIGNED - JOV	EXAMINED - <i>Timothy A. Dabur</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION SN 016-0225	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			311	2017-0231	COOK	42	5
DRAWN - daburdell		REVISED -	SHEET NO. 2 OF 30 SHEETS		CONTRACT NO. 62F37				
CHECKED - JOV JSB					ILLINOIS FED. AID PROJECT				



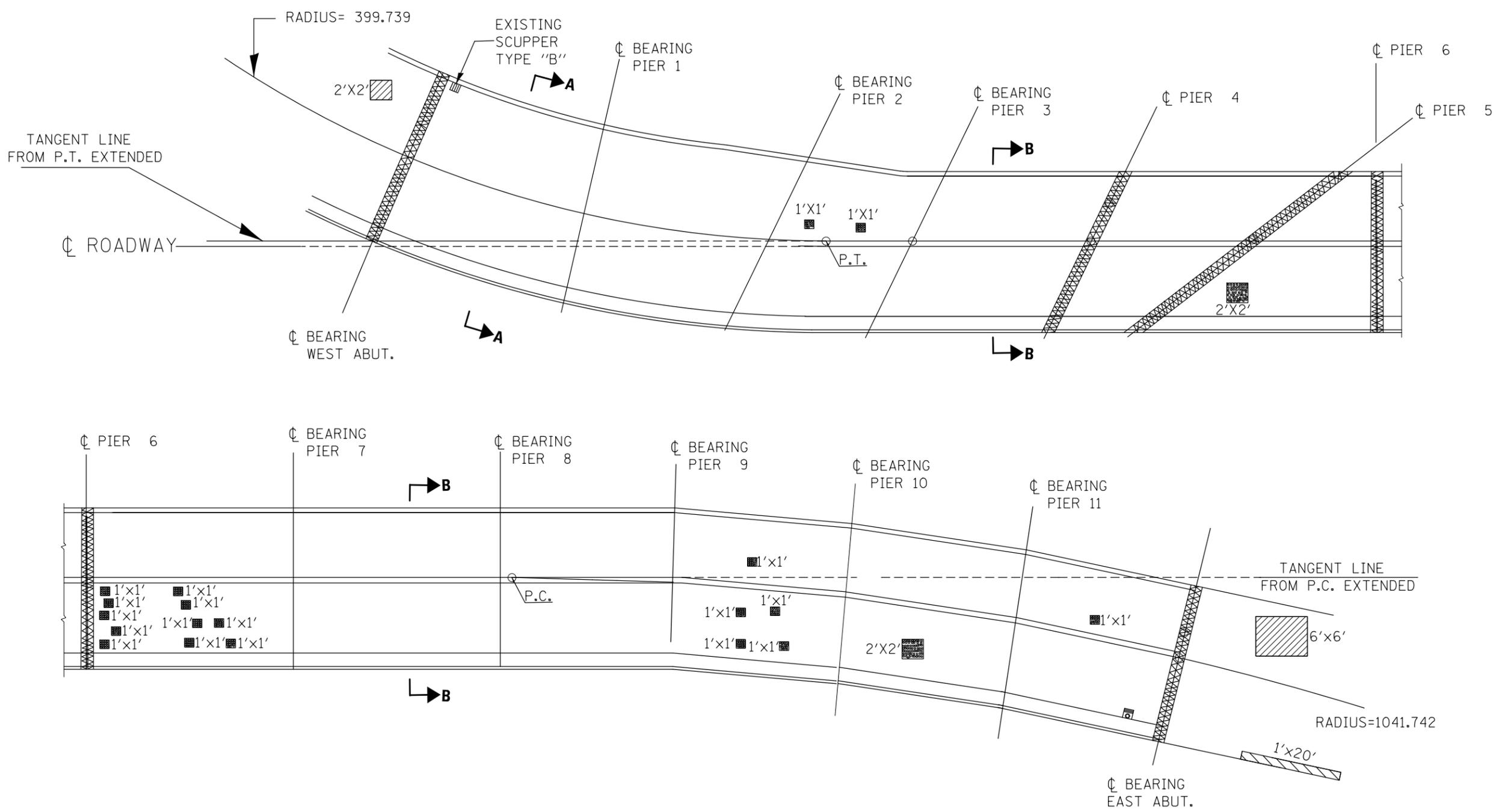
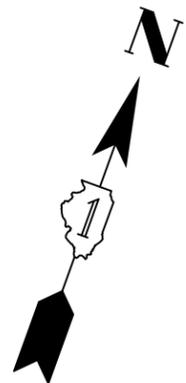
EXAMINED  
 PASSED  
*Timothy A. Daburdell*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Meyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROADWAY GEOMETRY  
 SN 016-0225  
 SHEET NO. 3 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	6
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

- JOINT TO BE RECONSTRUCTED W/PREFORMED JOINT STRIP SEAL
- DECK SLAB REPAIR (PARTIAL)
- APPROACH SLAB REPAIR

**NOTES:**

For Total Bill of Materials, see sheet 1 of 30.  
For Section A-A and B-B, see sheet 5 of 30.

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	3
APPROACH SLAB REPAIR	SQ. YD.	7

DESIGNED - JOV  
CHECKED - JSB  
DRAWN - daburdell  
CHECKED - JOV JSB

EXAMINED  
PASSED  
*Timothy A. Daburdell*  
ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Meyer*  
ENGINEER OF BRIDGES AND STRUCTURES

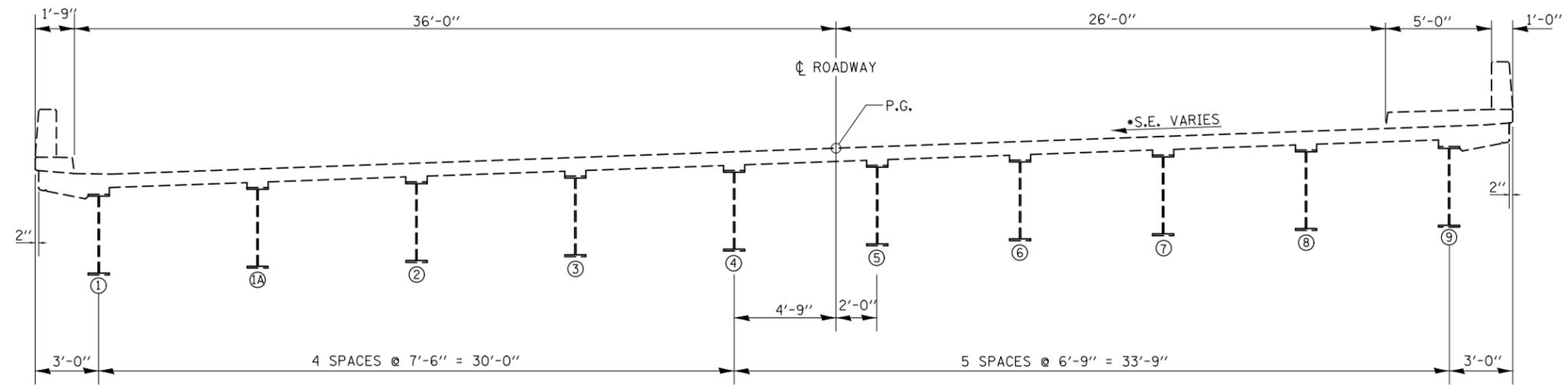
DATE - JANUARY 30, 2019  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

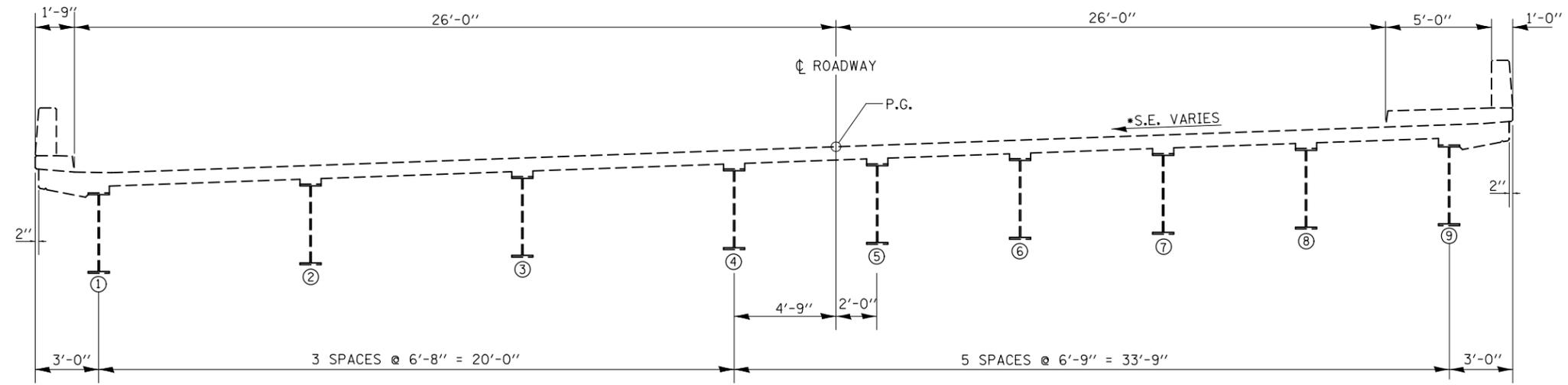
DECK REPAIRS  
SN 016-0225

SHEET NO. 4 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	7
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



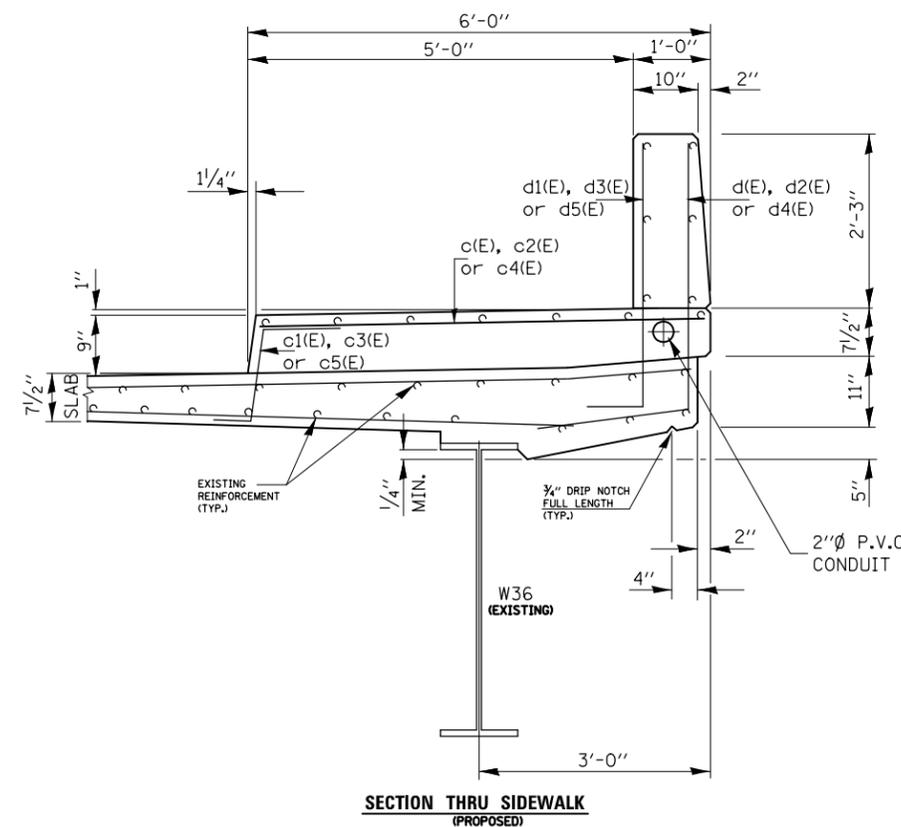
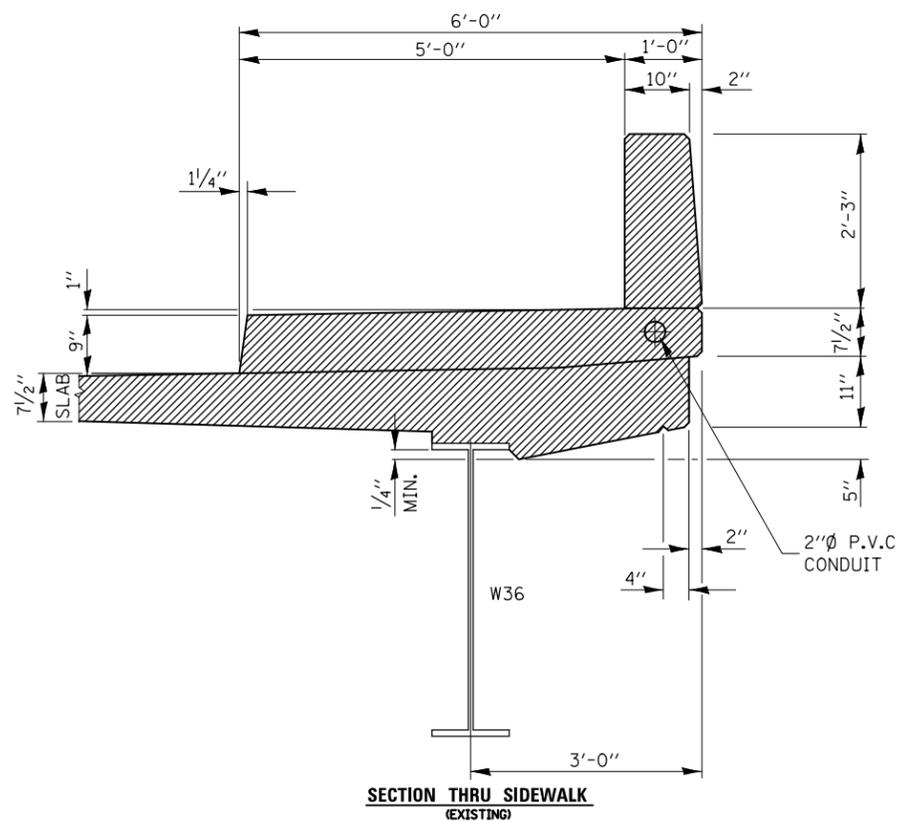
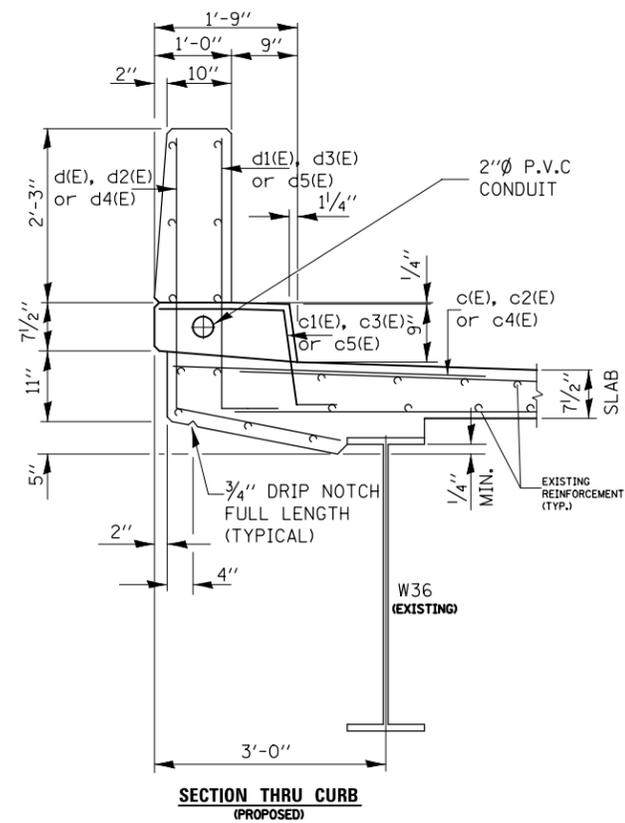
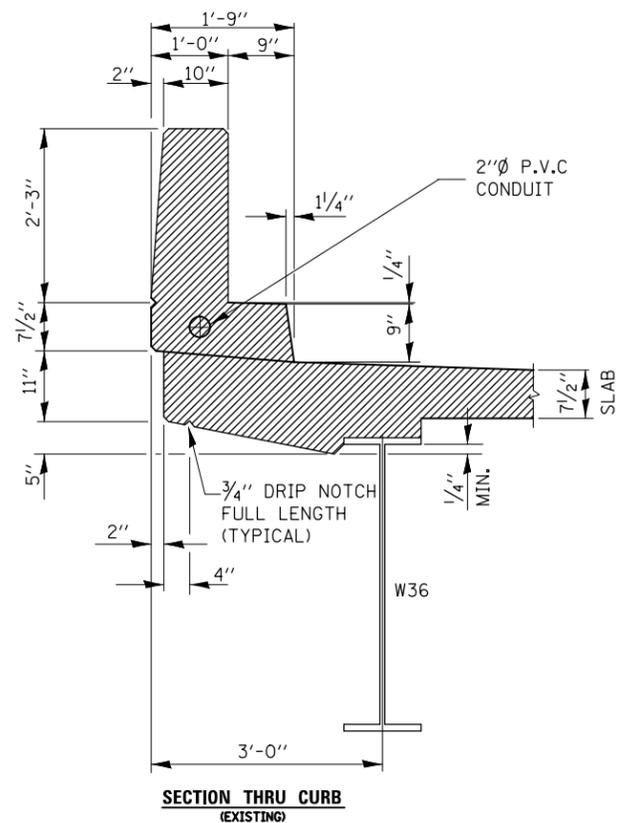
**CROSS SECTION A-A**  
(LOOKING EAST)



**CROSS SECTION B-B**  
(LOOKING EAST)

\*S.E.:  
 ← S.E. 0.038% FROM STA. 12+21.93 TO STA. 14+64.80  
 S.E. TRANSITION FROM STA. 14+64.80 TO STA. 20+04.80  
 → S.E. 0.027% FROM STA. 20+04.80 TO STA. 24+29.39

DESIGNED - JOV	EXAMINED	DATE - JANUARY 30, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE SN 016-0225	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -			311	2017-0231	COOK	42	8
DRAWN - daburdell	PASSED	REVISED -	SHEET NO. 5 OF 30 SHEETS		CONTRACT NO. 62F37				
CHECKED - JOV JSB	<i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			ILLINOIS FED. AID PROJECT				



**LEGEND:**  
**HATCHED AREAS INDICATES CONCRETE REMOVAL**

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
 PASSED  
*Timothy A. Daburdell*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Poyner*  
 ENGINEER OF BRIDGES AND STRUCTURES

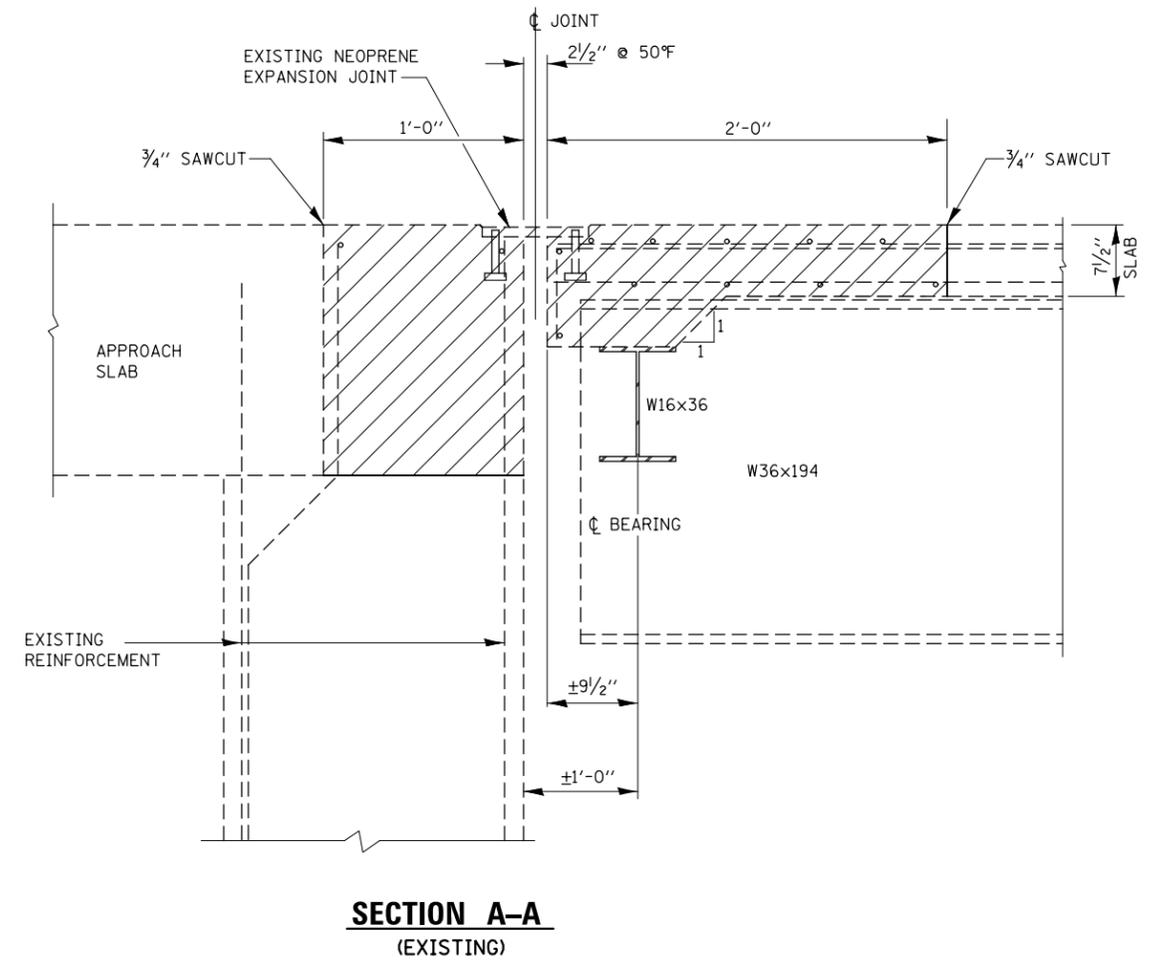
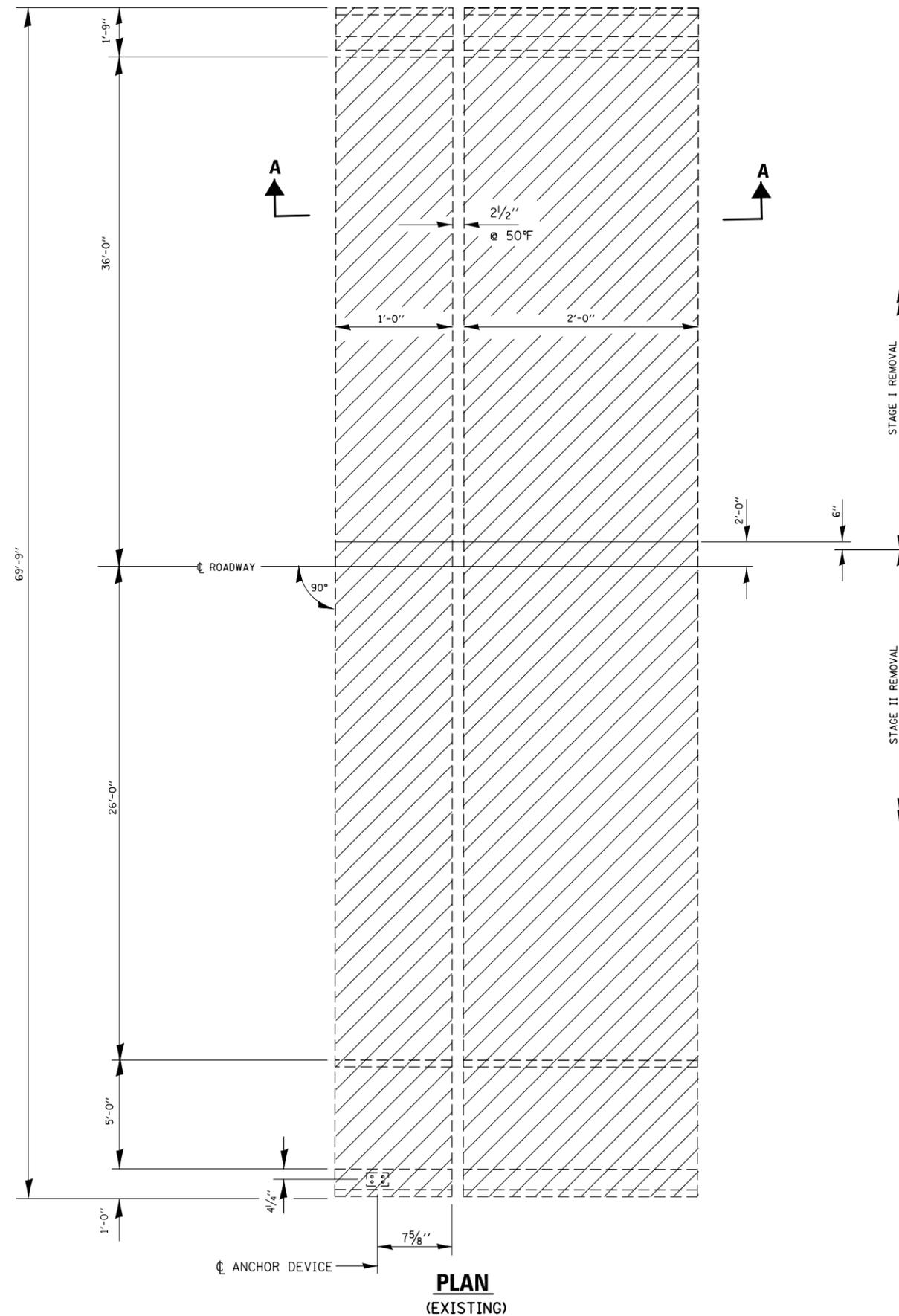
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PARAPET SECTION AND DETAILS  
 SN 016-0225

SHEET NO. 6 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	9
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU.YD.	8.5

**LEGEND:**

HATCHED AREA INDICATES CONCRETE REMOVAL

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
*Timothy A. Daburdell*  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
*Carl R. Beyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

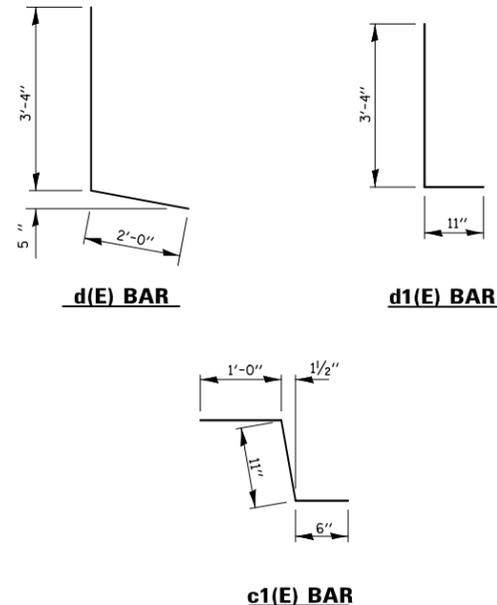
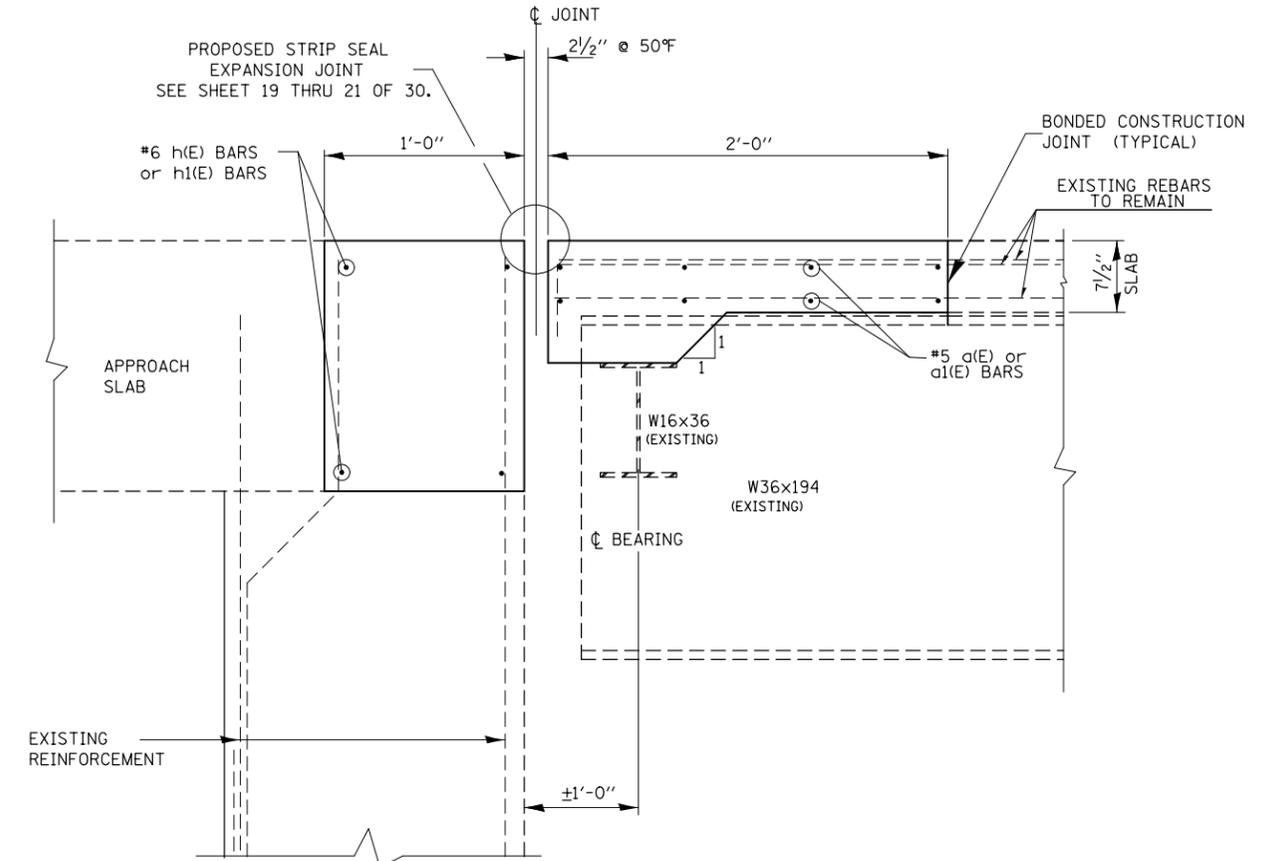
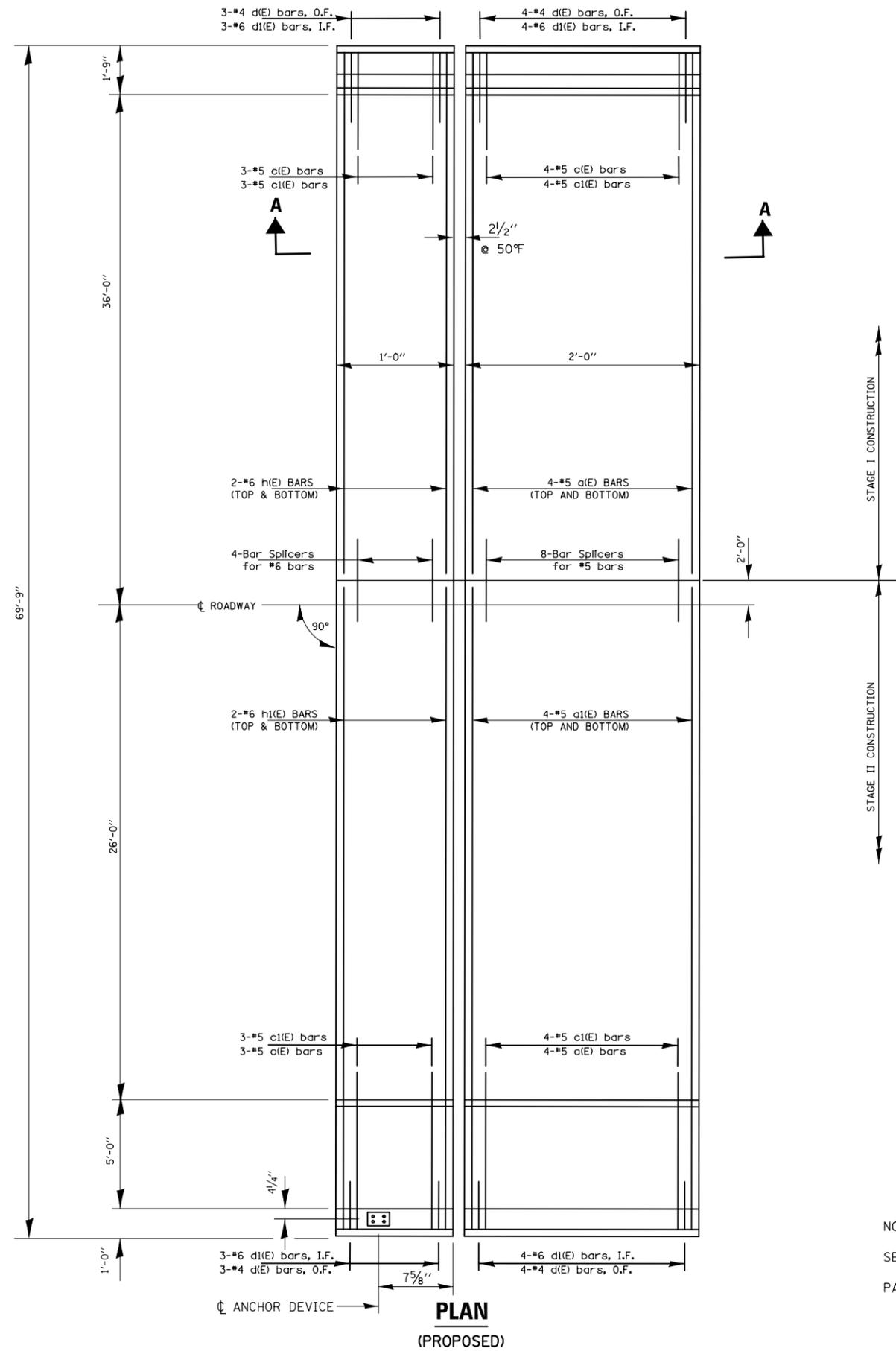
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REMOVAL AT WEST ABUTMENT  
 SN 016-0225

SHEET NO. 7 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62F37	



NOTE:  
FOR ANCHOR DEVICE DETAILS,  
SEE SHEET 18 OF 30.  
SEE SHEET 6 OF 30 FOR  
PARAPET DETAILS.

**BILL OF MATERIALS**

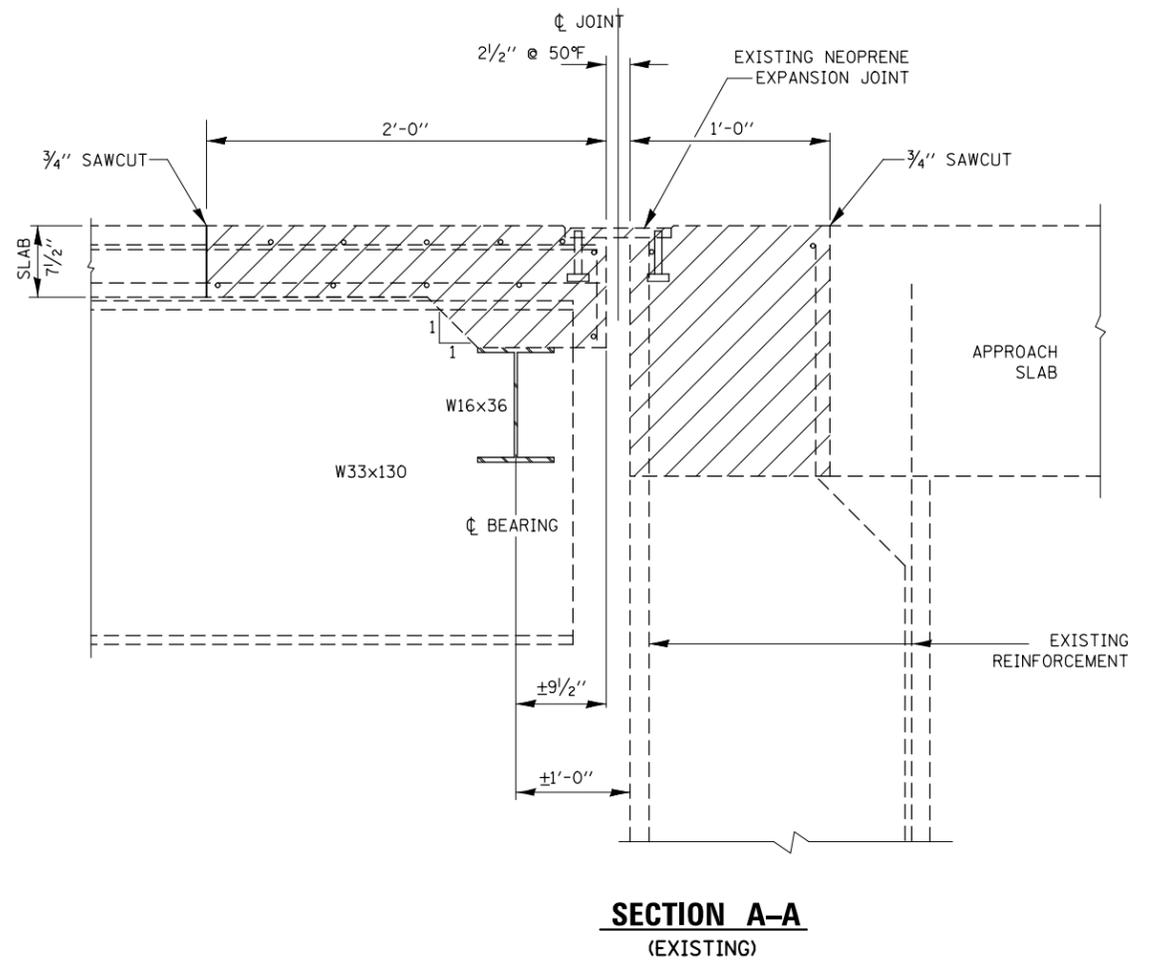
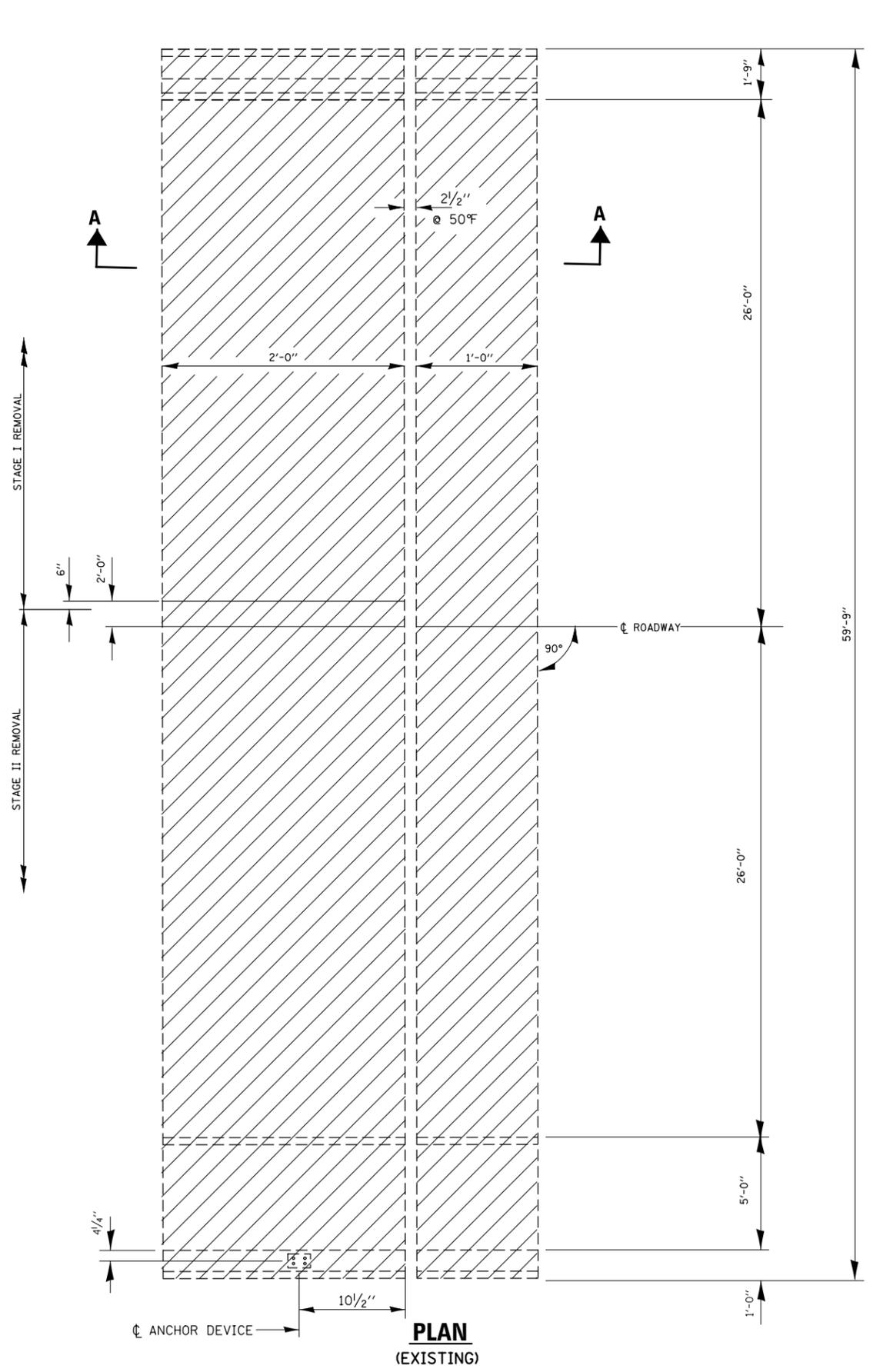
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	8	#5	35'-5"	—
a1(E)	8	#5	33'-10"	—
c(E)	14	#5	5'-9"	—
c1(E)	14	#5	2'-5"	┌
d(E)	14	#4	5'-4"	└
d1(E)	14	#6	4'-3"	└
h(E)	4	#6	35'-5"	—
h1(E)	4	#6	33'-10"	—
<b>ITEM</b>		<b>UNIT</b>	<b>QUANTITY</b>	
REINFORCEMENT BARS (EPOXY COATED)		POUND	1250	
CONCRETE SUPERSTRUCTURE		CU.YD.	8.5	

DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - JANUARY 30, 2019
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Carl Berger</i>	REVISED -
CHECKED - JOV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT AT WEST ABUTMENT  
SN 016-0225

F.A.P. RTE. 311	SECTION 2017-0231	COUNTY COOK	TOTAL SHEETS 42	SHEET NO. 10A
CONTRACT NO. 62F37			ILLINOIS FED. AID PROJECT	



**SECTION A-A**  
(EXISTING)

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU.YD.	7.4

**LEGEND:**

HATCHED AREA INDICATES CONCRETE REMOVAL

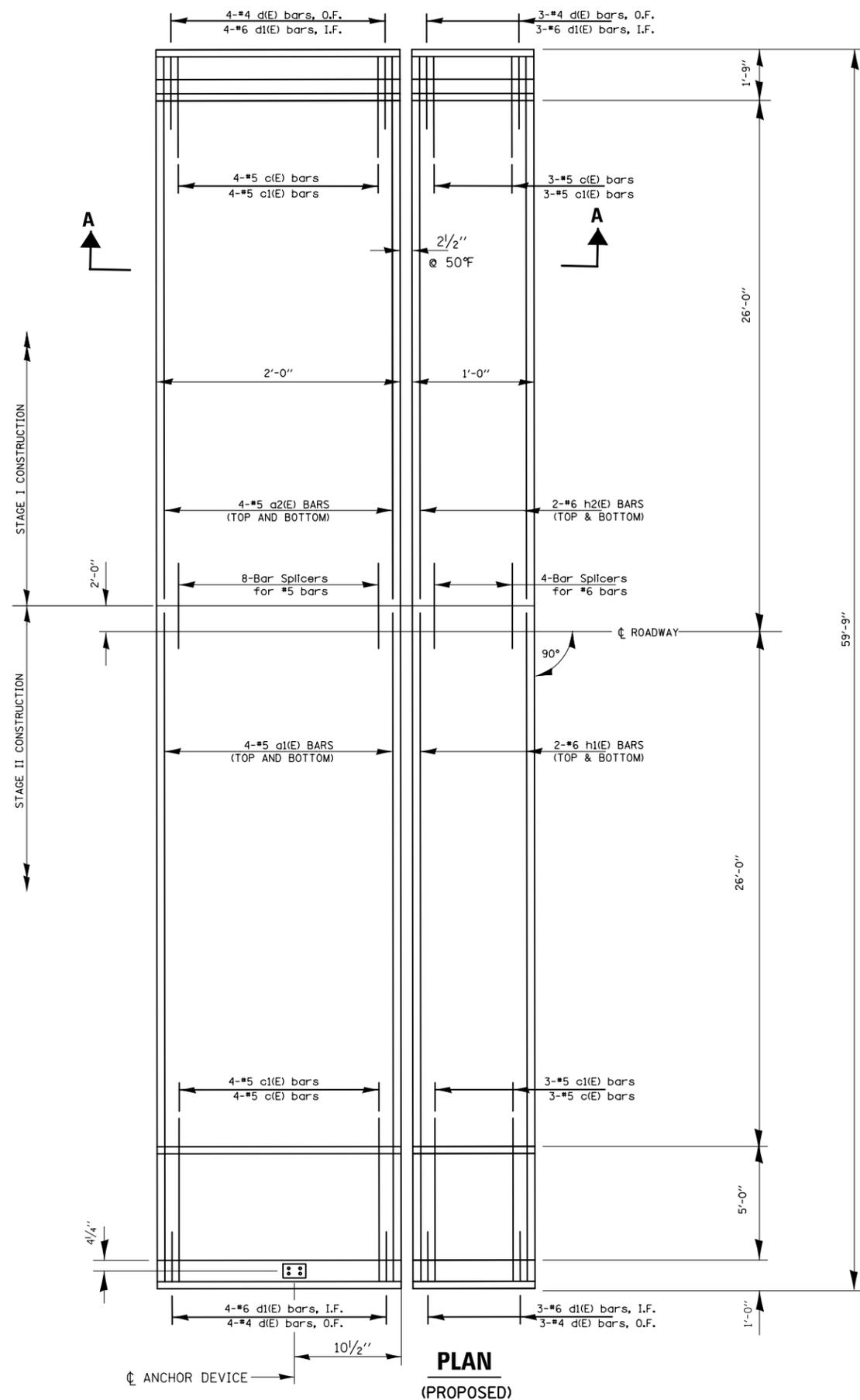
DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
CHECKED - JSB	PASSED - <i>Carl R. Boyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - JOV JSB		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

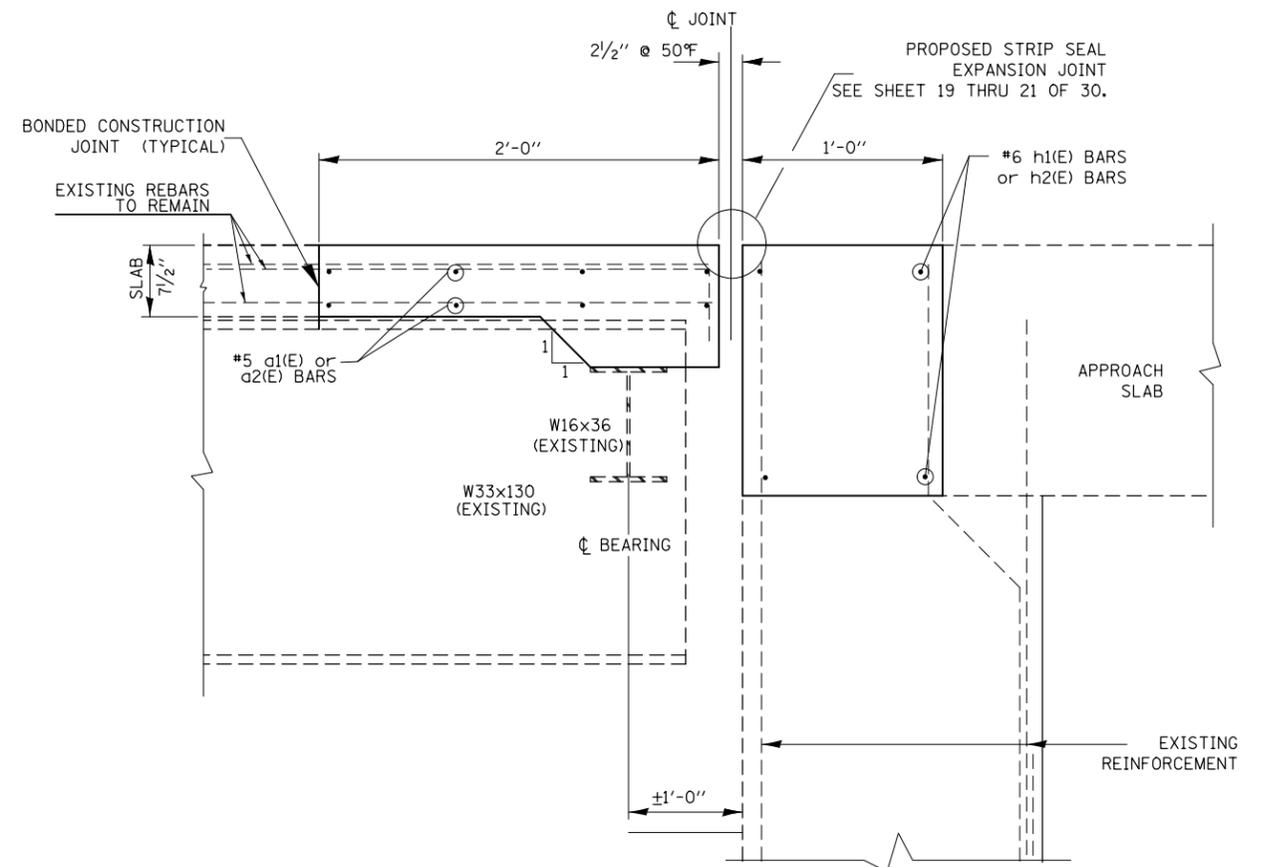
**EXPANSION JOINT REMOVAL AT EAST ABUTMENT**  
**SN 016-0225**

SHEET NO. 9 OF 30 SHEETS

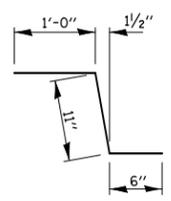
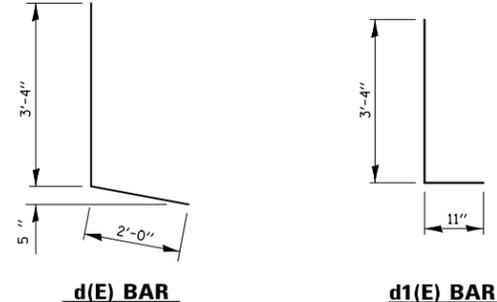
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	11
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**PLAN**  
(PROPOSED)



**SECTION A-A**  
(PROPOSED)



NOTE:  
FOR ANCHOR DEVICE DETAILS,  
SEE SHEET 18 OF 30.  
SEE SHEET 6 OF 30 FOR  
PARAPET DETAILS.

**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE
a1(E)	8	#5	33'-10"	—
a2(E)	8	#5	25'-5"	—
c(E)	14	#5	5'-9"	—
c1(E)	14	#5	2'-5"	┌
d(E)	14	#4	5'-4"	└
d1(E)	14	#6	4'-3"	└
h1(E)	4	#6	33'-10"	—
h2(E)	4	#6	25'-5"	—
ITEM			UNIT	QUANTITY
REINFORCEMENT BARS (EPOXY COATED)			POUND	1110
CONCRETE SUPERSTRUCTURE			CU.YD.	7.4

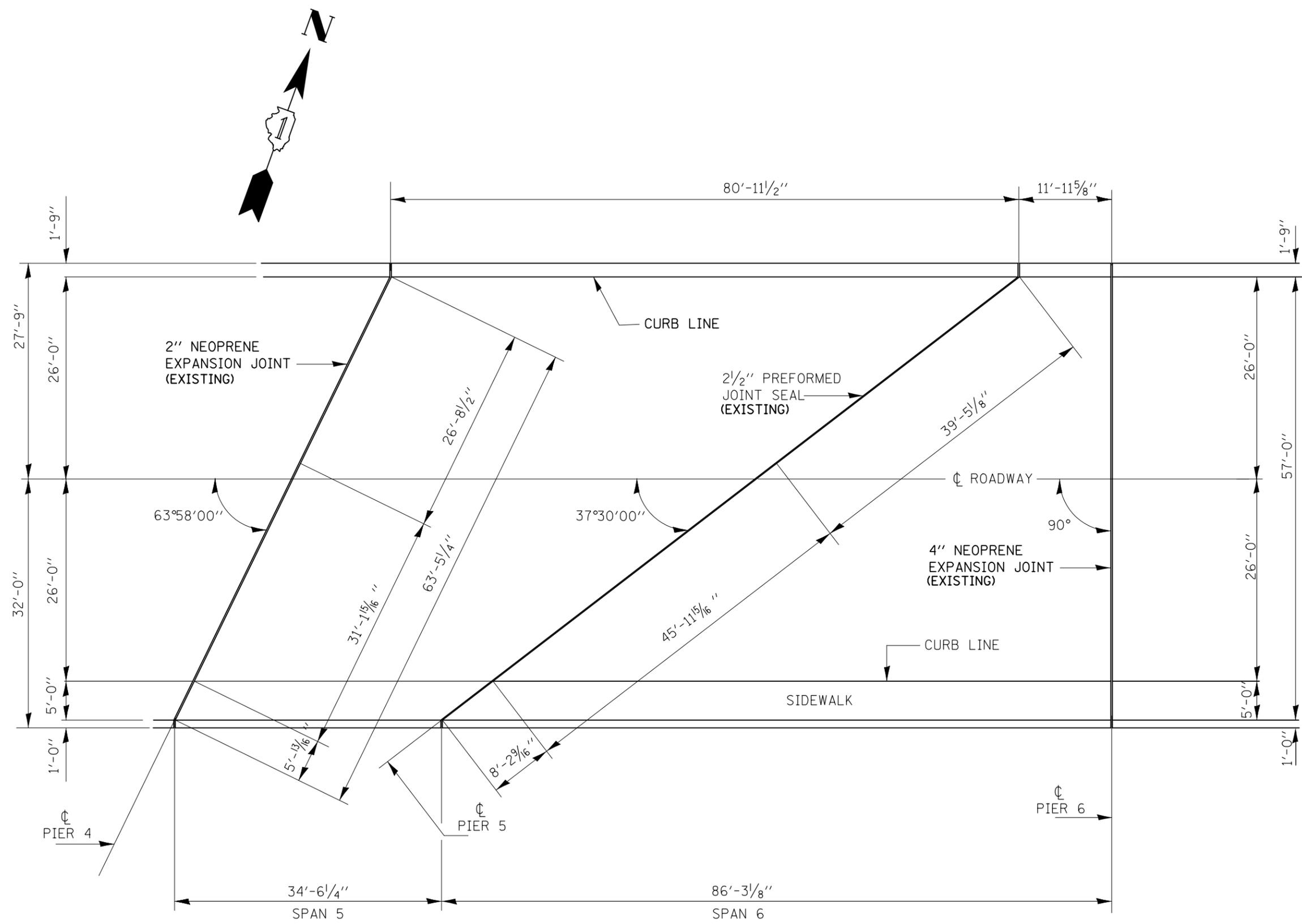
DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - JANUARY 30, 2019
CHECKED - JSB	PASSED - <i>Carl R. Ringer</i>	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - JOV JSB		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT AT EAST ABUTMENT  
SN 016-0225

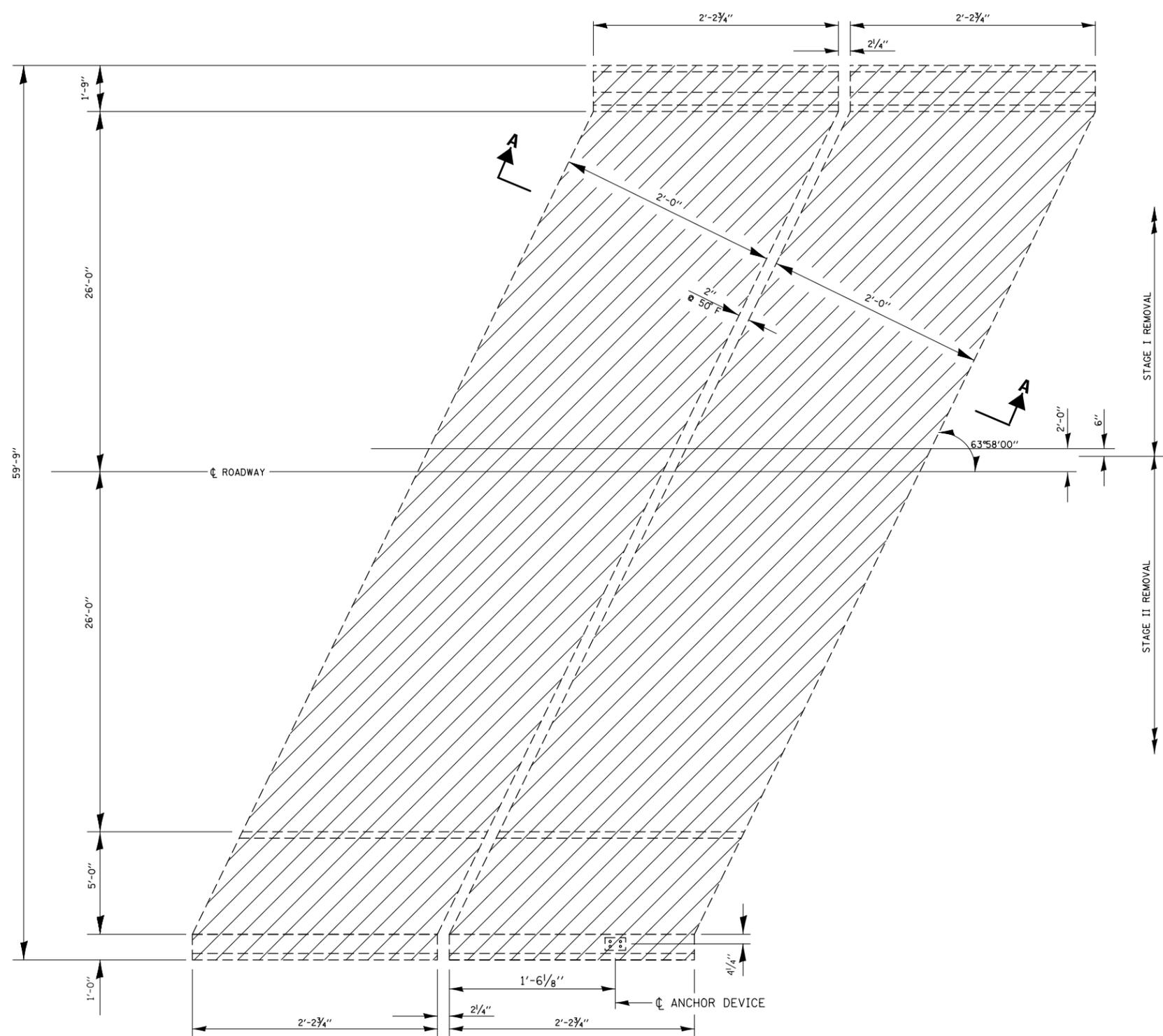
SHEET NO. 10 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	11A
CONTRACT NO. 62F37			ILLINOIS FED. AID PROJECT	

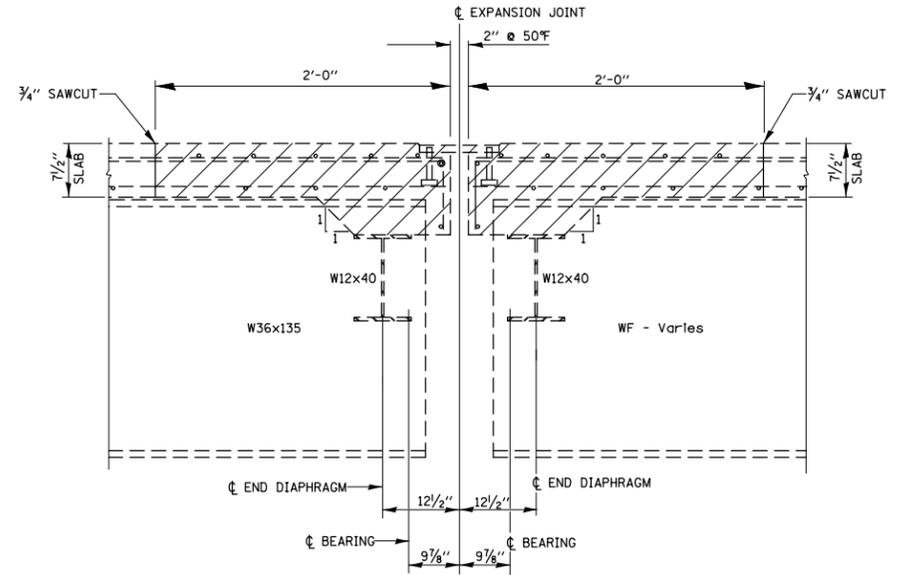


**PLAN**

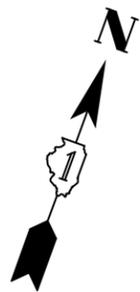
DESIGNED - JOV	EXAMINED	DATE - JANUARY 30, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING JOINTS AT PIERS 4 THRU 6 SN 016-0225	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	PASSED	REVIS			311	2017-0231	COOK	42	12
DRAWN - daburdell		REVIS	SHEET NO. 11 OF 30 SHEETS		CONTRACT NO. 62F37				
CHECKED - JOV JSB					ILLINOIS FED. AID PROJECT				



**PLAN  
(EXISTING)**



**SECTION A-A  
(EXISTING)**



**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU.YD.	10.6

**LEGEND:**

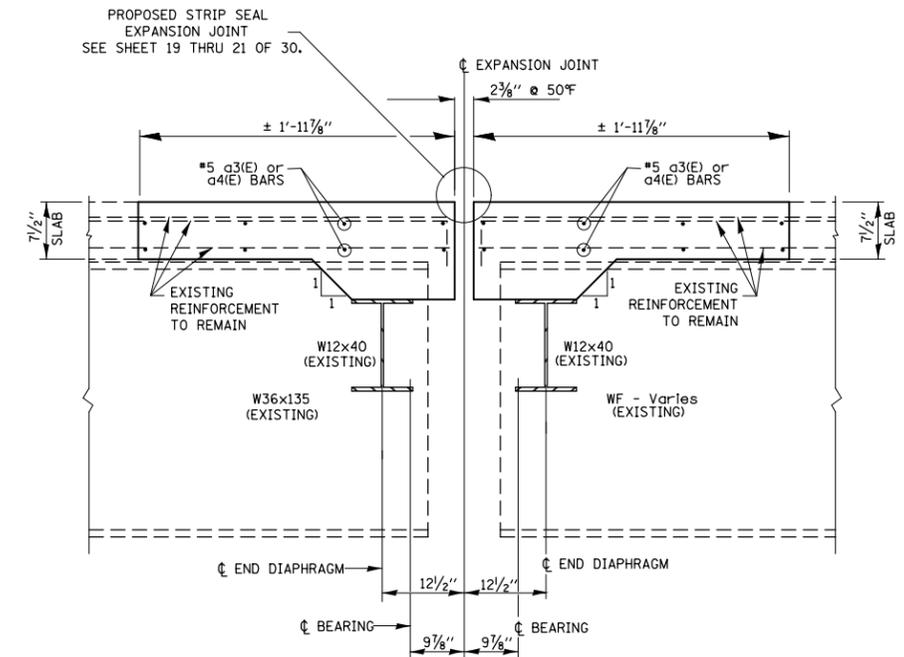
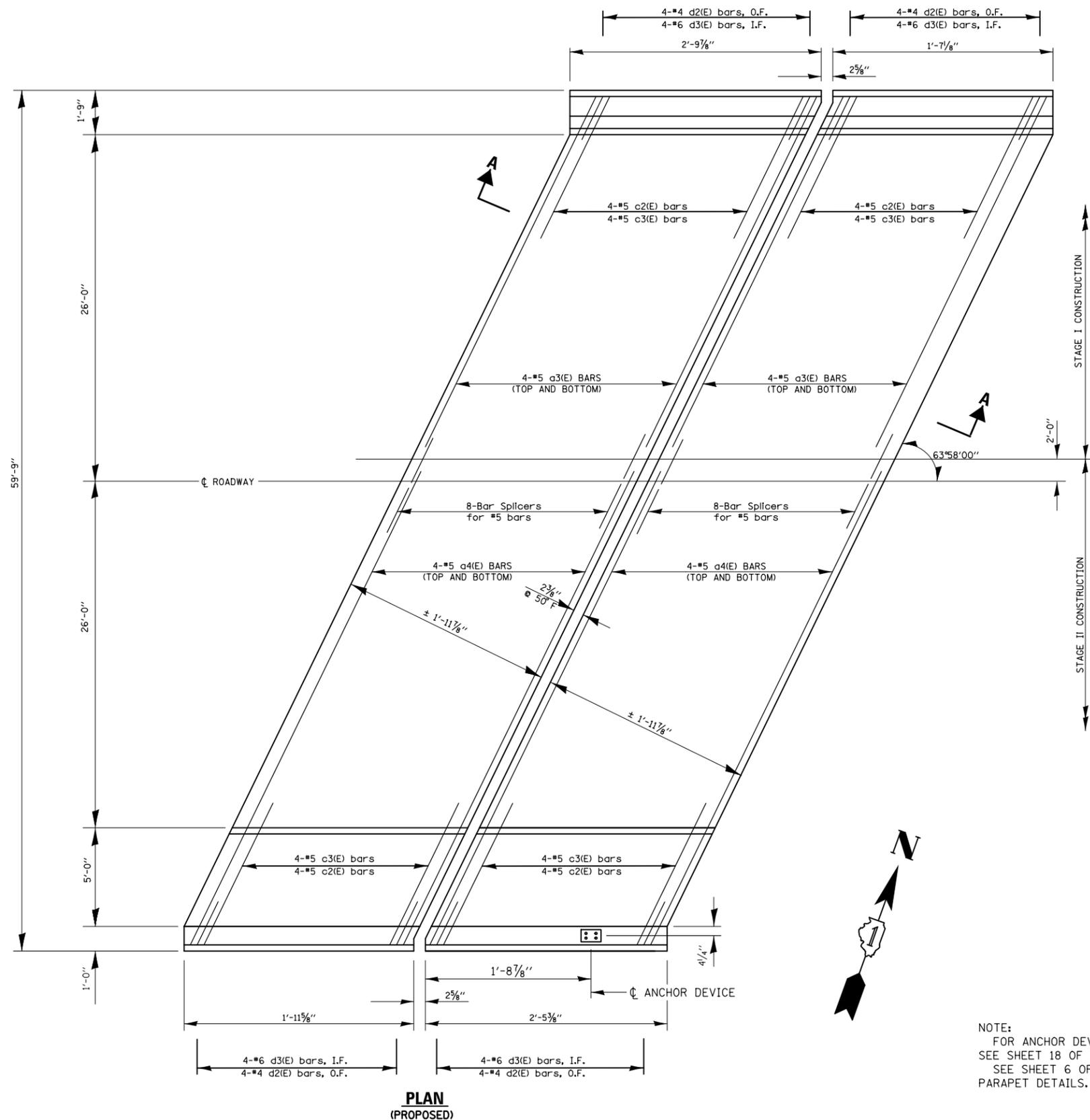
HATCHED AREA INDICATES CONCRETE REMOVAL

DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
CHECKED - JSB	PASSED - <i>Carl P. ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - JOV JSB		

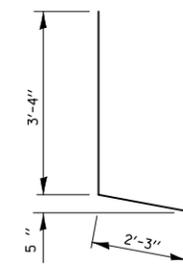
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REMOVAL AT PIER 4  
SN 016-0225**

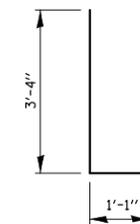
F.A.P. RTE. 311	SECTION 2017-0231	COUNTY COOK	TOTAL SHEETS 42	SHEET NO. 13
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



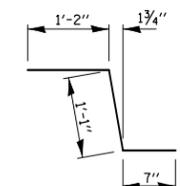
**SECTION A-A  
(PROPOSED)**



**d2(E) BAR**



**d3(E) BAR**



**c3(E) BAR**

NOTE:  
FOR ANCHOR DEVICE DETAILS,  
SEE SHEET 18 OF 30.  
SEE SHEET 6 OF 30 FOR  
PARAPET DETAILS.

**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE	
a3(E)	16	#5	28'-3"	—	
a4(E)	16	#5	37'-5"	—	
c2(E)	16	#5	6'-5"	—	
c3(E)	16	#5	2'-10"	┘	
d2(E)	16	#4	5'-7"	L	
d3(E)	16	#6	4'-5"	L	
<b>ITEM</b>				<b>UNIT</b>	<b>QUANTITY</b>
REINFORCEMENT BARS (EPOXY COATED)				POUND	1420
CONCRETE SUPERSTRUCTURE				CU.YD.	10.6

DESIGNED - JOV  
CHECKED - JSB  
DRAWN - daburdell  
CHECKED - JOV JSB

EXAMINED  
PASSED  
  
  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

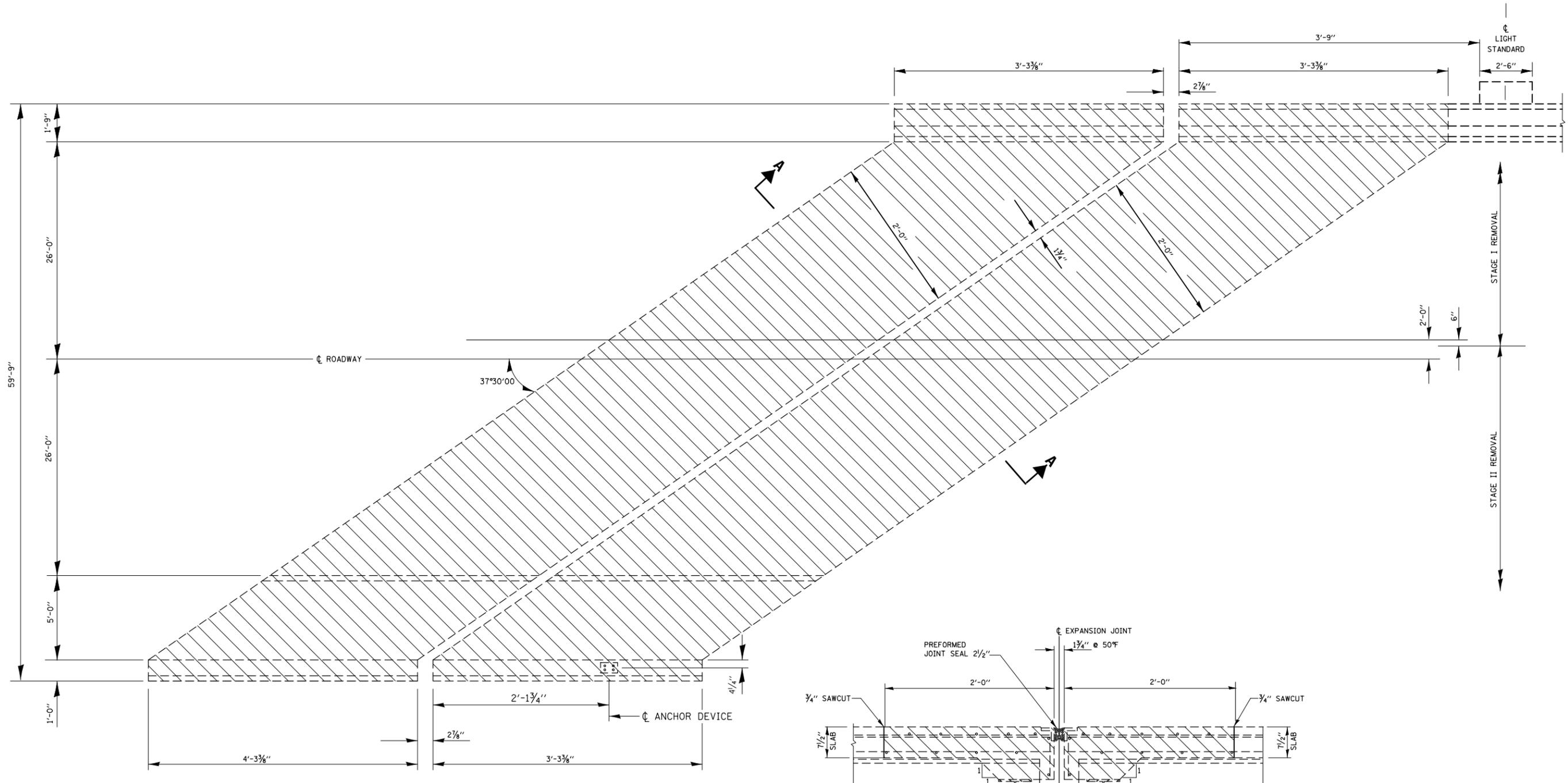
DATE - JANUARY 30, 2019  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

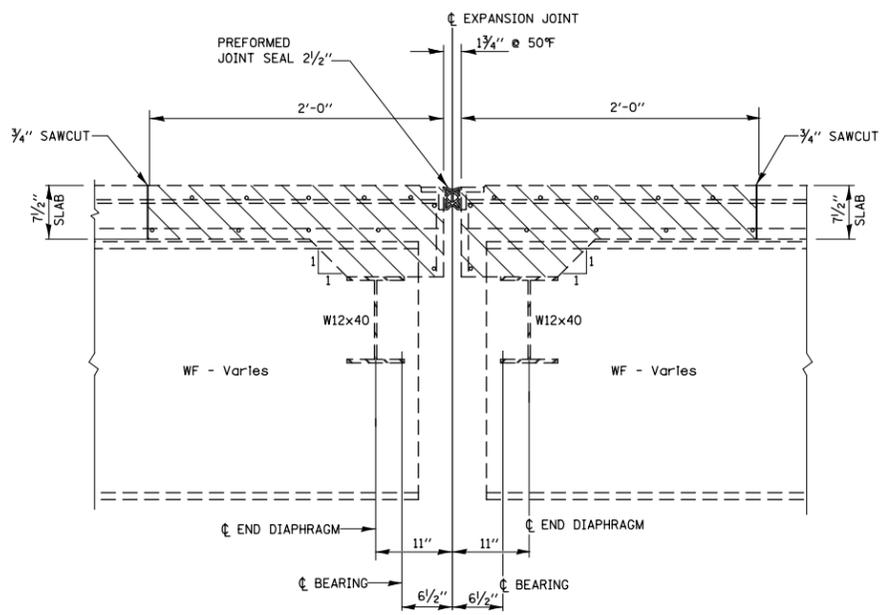
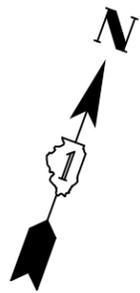
**EXPANSION JOINT REPLACEMENT AT PIER 4  
SN 016-0225**

SHEET NO. 13 OF 30 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
311 2017-0231 COOK 42 13A  
CONTRACT NO. 62F37  
ILLINOIS FED. AID PROJECT



**PLAN**  
(EXISTING)



**SECTION A-A**  
(EXISTING)

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU.YD.	16.7

**LEGEND:**

HATCHED AREA INDICATES CONCRETE REMOVAL

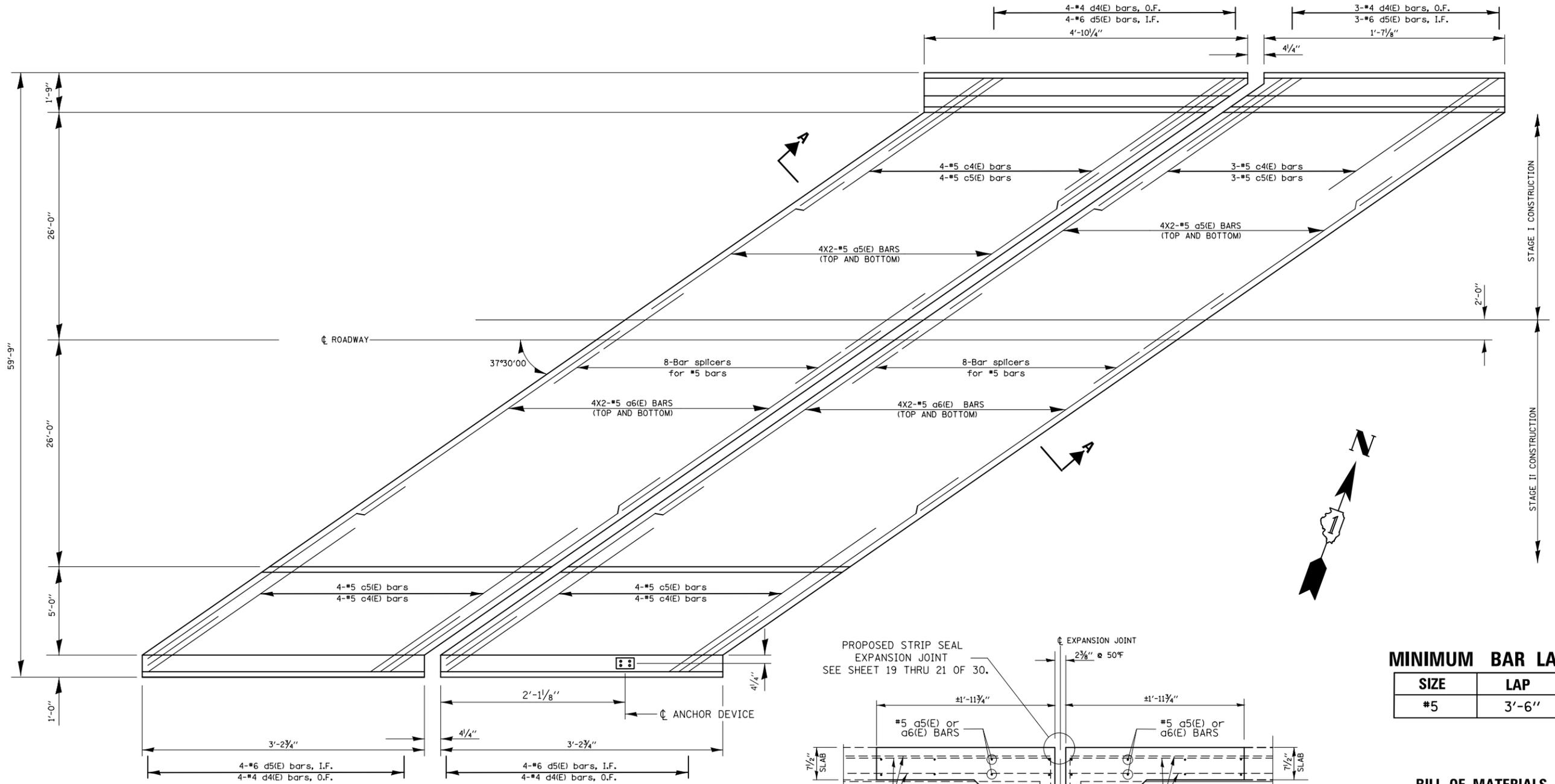
DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
CHECKED - JSB	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - JOV JSB		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

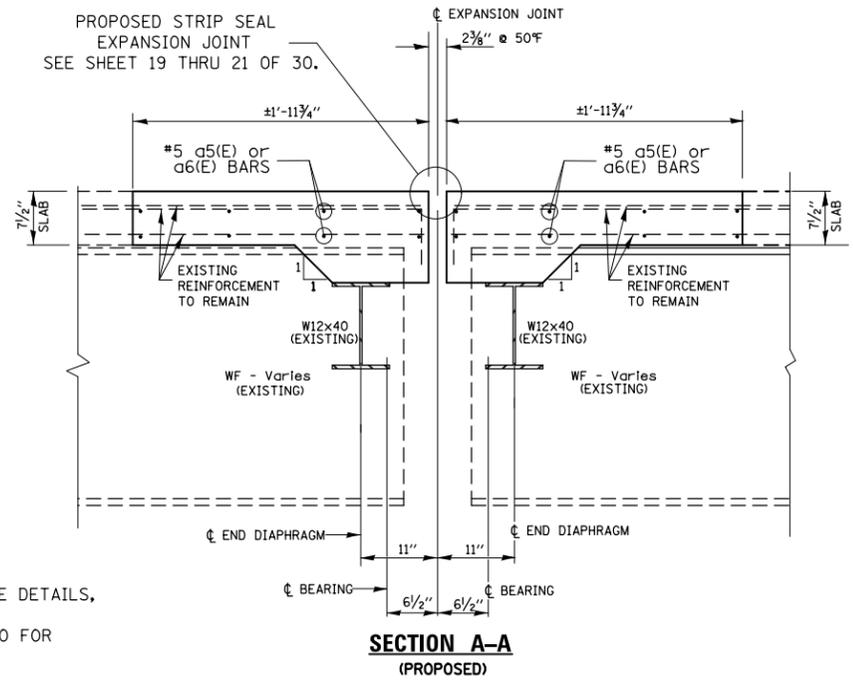
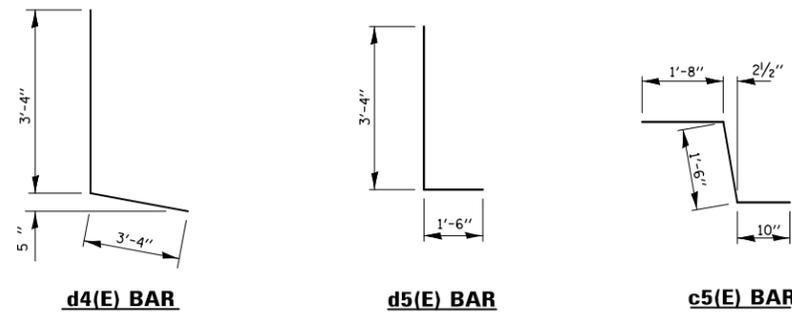
**EXPANSION JOINT REMOVAL AT PIER 5**  
**SN 016-0225**

SHEET NO. 14 OF 30 SHEETS

F.A.P. RTE. 311	SECTION 2017-0231	COUNTY COOK	TOTAL SHEETS 42	SHEET NO. 14
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**PLAN**  
(PROPOSED)



**SECTION A-A**  
(PROPOSED)

**MINIMUM BAR LAP**

SIZE	LAP
#5	3'-6"

**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE
a5(E)	32	#5	22'-8"	—
a6(E)	32	#5	29'-5"	—
c4(E)	15	#5	9'-5"	—
c5(E)	15	#5	4'-0"	┘
d4(E)	15	#4	6'-7"	L
d5(E)	15	#6	4'-10"	L
ITEM		UNIT	QUANTITY	
REINFORCEMENT BARS (EPOXY COATED)		POUND	2120	
CONCRETE SUPERSTRUCTURE		CU.YD.	16.6	

**BARS INDICATED THUS 4X2-#5 ETC. INDICATES 4 LINES OF BARS WITH 2 LENGTHS PER LINE.**

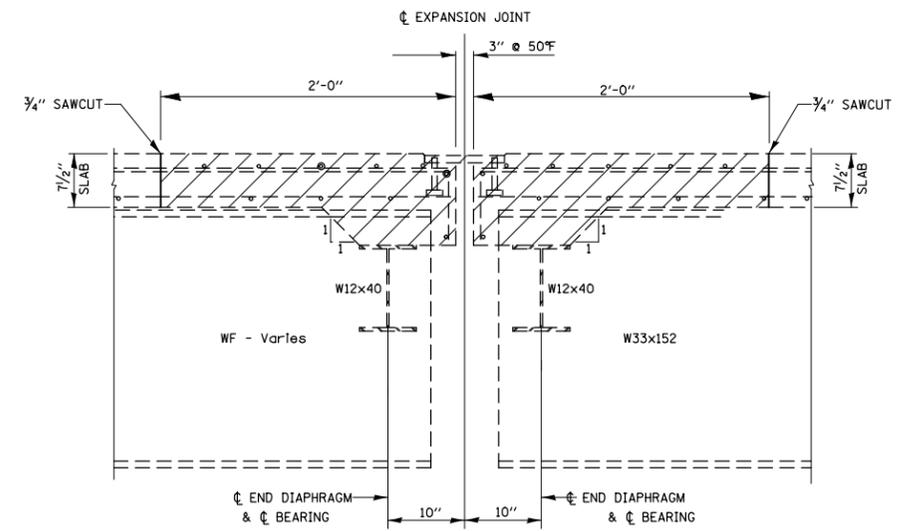
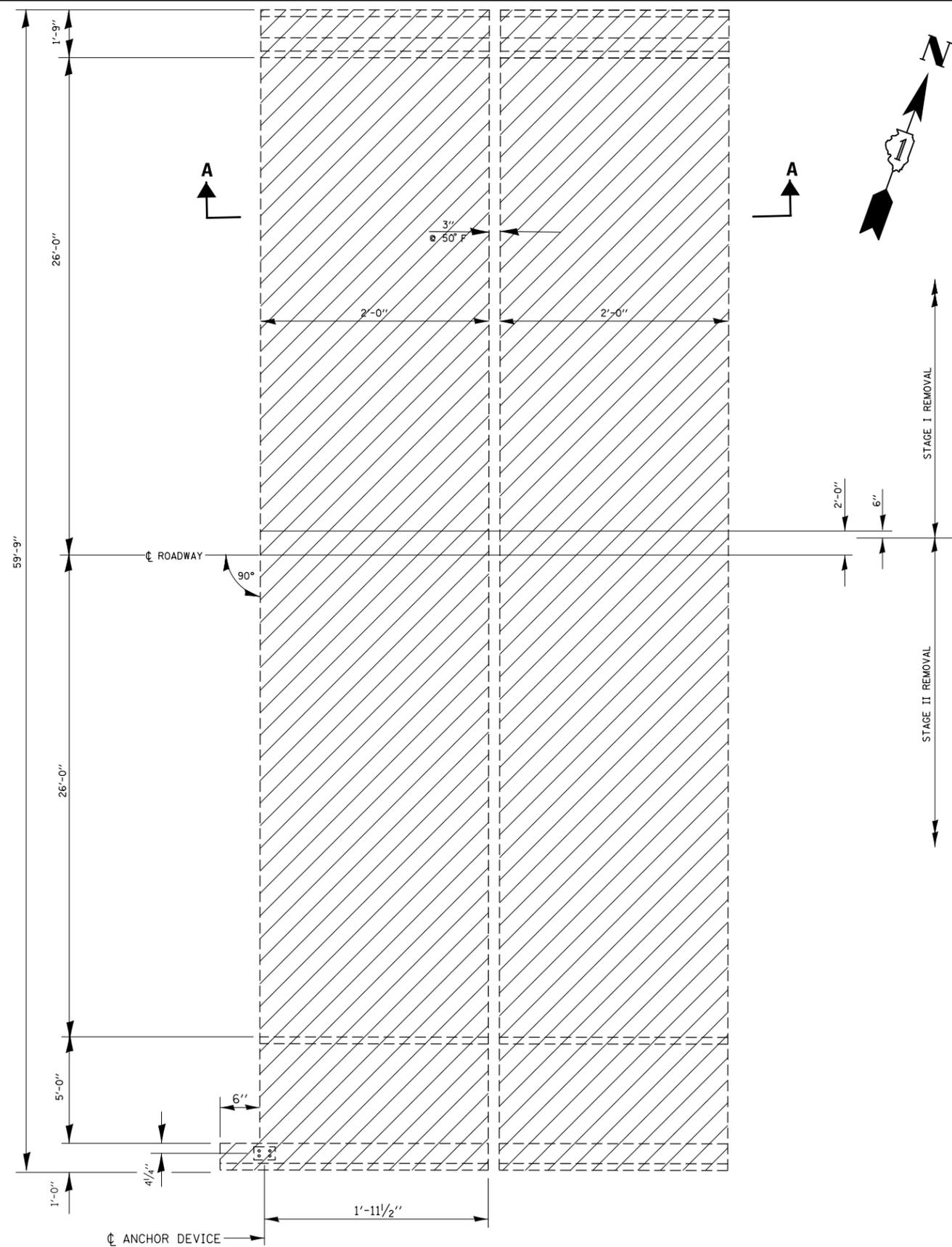
NOTE:  
FOR ANCHOR DEVICE DETAILS,  
SEE SHEET 18 OF 30.  
SEE SHEET 6 OF 30 FOR  
PARAPET DETAILS.

DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
CHECKED - JSB	PASSED - <i>Carl R. Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - JOV JSB		

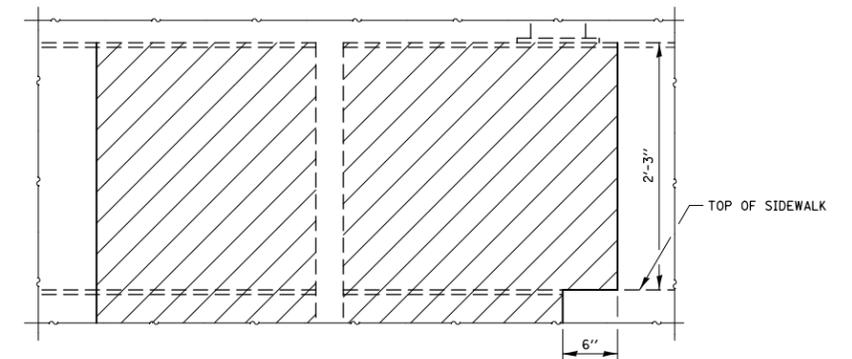
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT AT PIER 5**  
**SN 016-0225**

F.A.P. RTE. 311	SECTION 2017-0231	COUNTY COOK	TOTAL SHEETS 42	SHEET NO. 14A
CONTRACT NO. 62F37			ILLINOIS FED. AID PROJECT	



**SECTION A-A**  
(EXISTING)



**INSIDE VIEW OF SOUTH PARAPET**

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU.YD.	9.1

**LEGEND:**

HATCHED AREA INDICATES CONCRETE REMOVAL

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
*Timothy A. Daulton*  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
*Carl Peyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

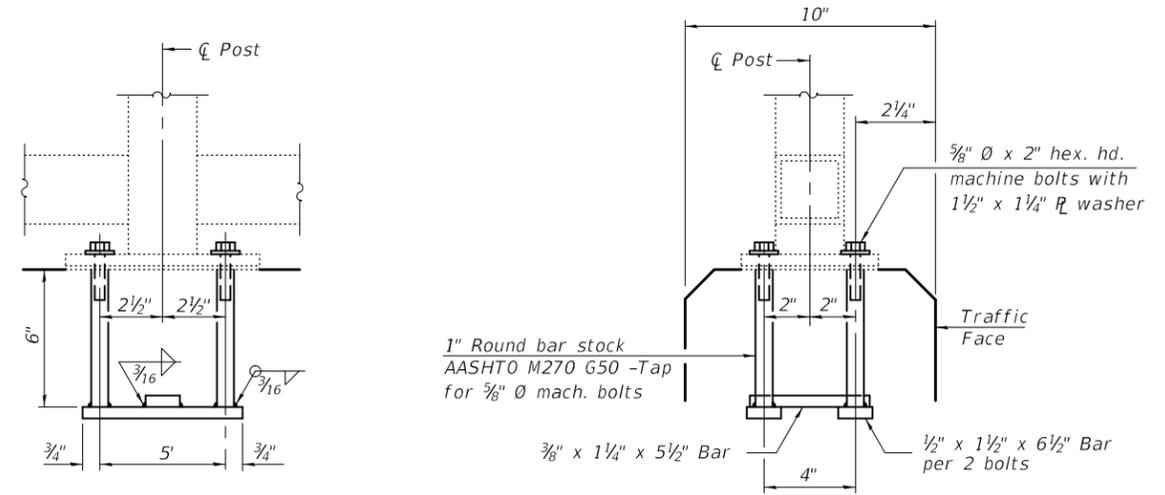
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REMOVAL AT PIER 6**  
**SN 016-0225**

SHEET NO. 16 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	15
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				





**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

**Note:**

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with "Concrete Removal".

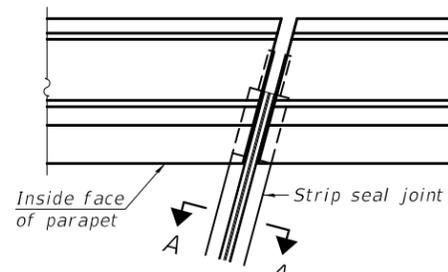
DESIGNED - JOV	EXAMINED	DATE - JANUARY 30, 2019
CHECKED - JSB	<i>Timothy A. Dabur</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - JOV JSB	<i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE FENCE RAILING, PARAPET MOUNTED  
SN 016-0225**

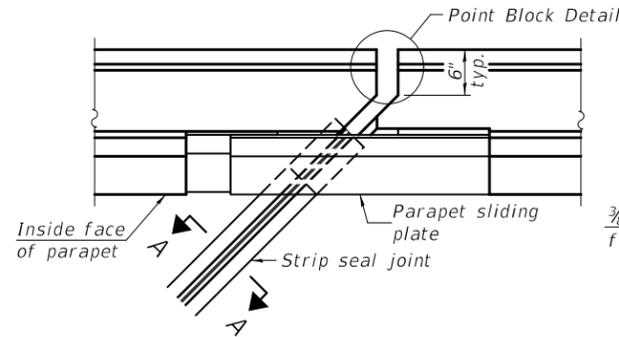
SHEET NO. 18 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	16
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				

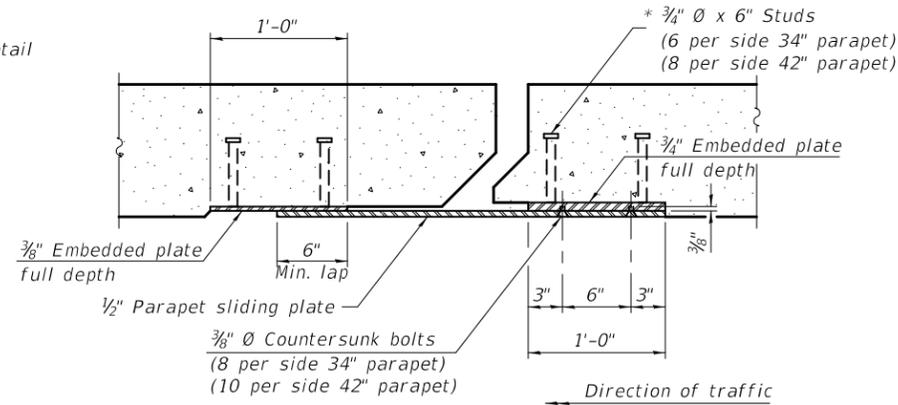


FOR SKEWS  $\leq 30^\circ$

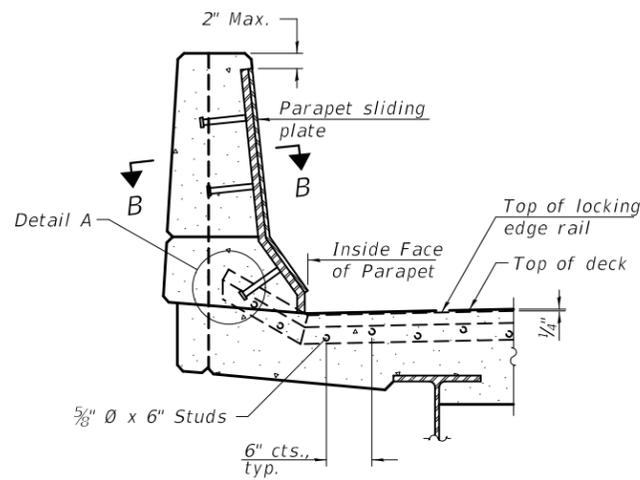
PLAN AT PARAPET



FOR SKEWS  $> 30^\circ$

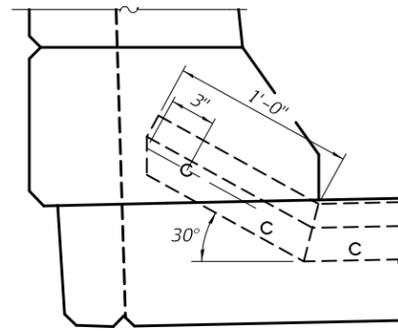


SECTION B-B

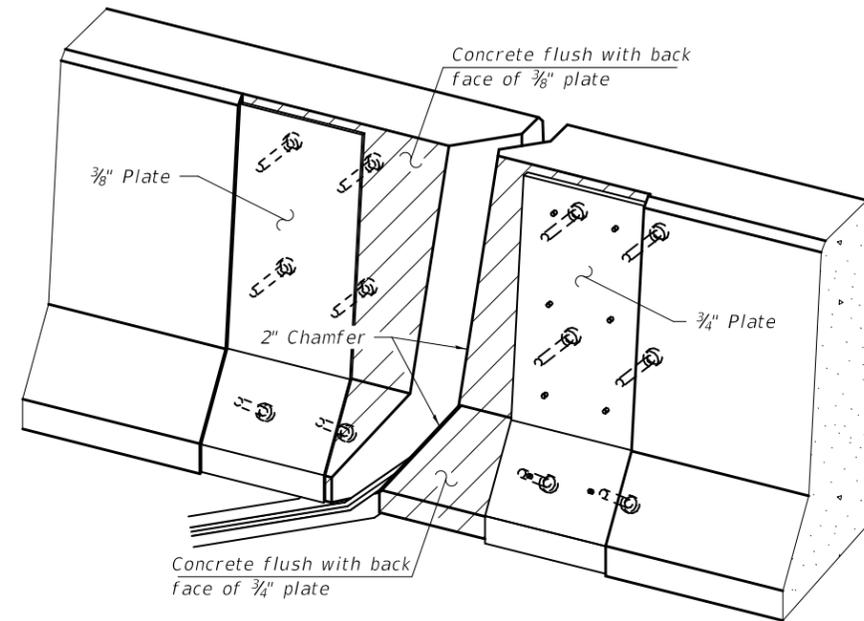


ELEVATION AT PARAPET

(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)

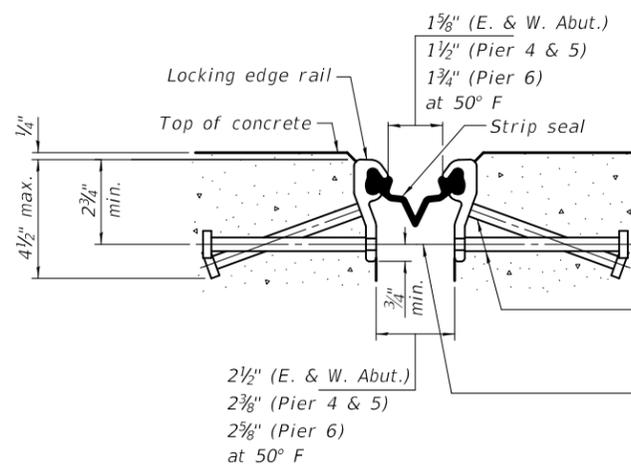


DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)



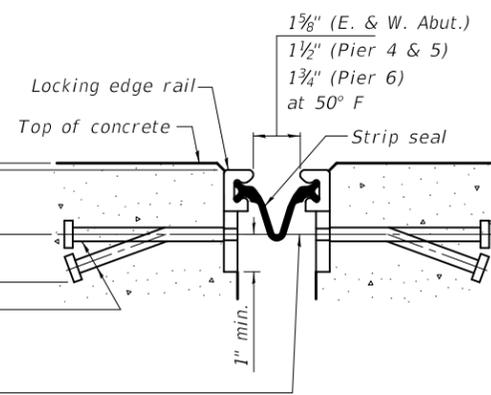
SHOWING ROLLED RAIL JOINT

\*  $5/8$ "  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

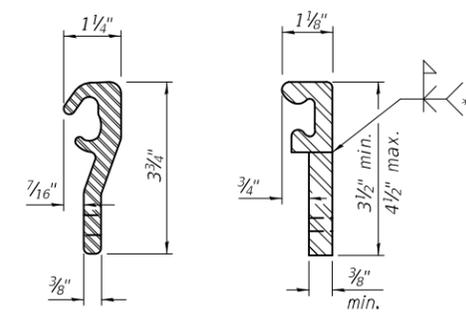
$3/8$ "  $\phi$  threaded rods in  $7/16$ "  $\phi$  holes at  $\pm 4$ "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

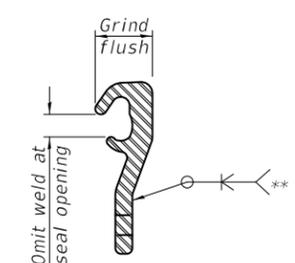


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	344

EJ-SS-S

8-11-17

(Sheet 1 of 3)

DESIGNED - JOV	EXAMINED
CHECKED - JSB	PASSED
DRAWN - daburdell	
CHECKED - JOV JSB	

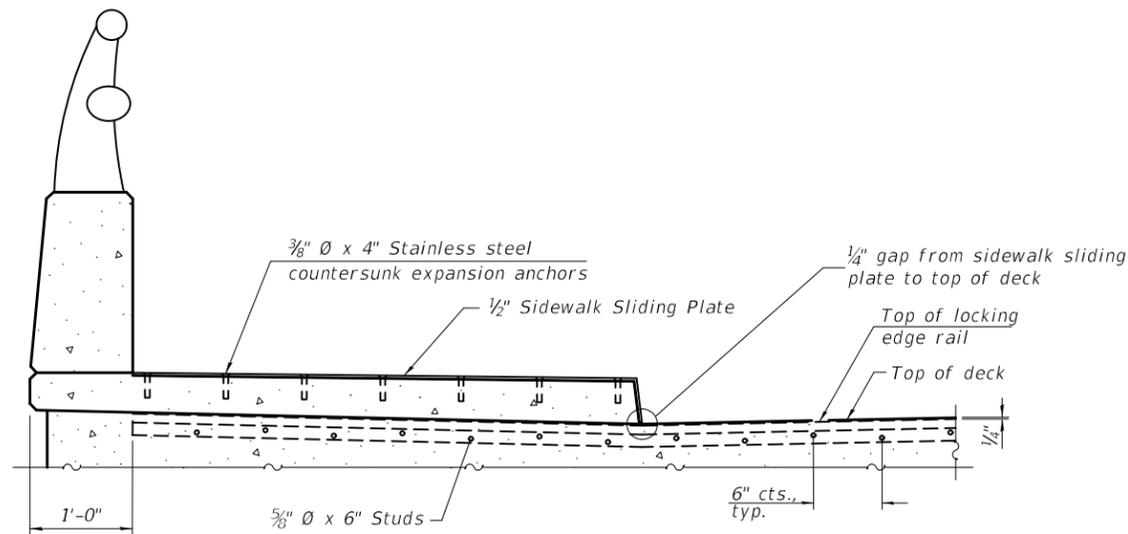
 ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED - REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

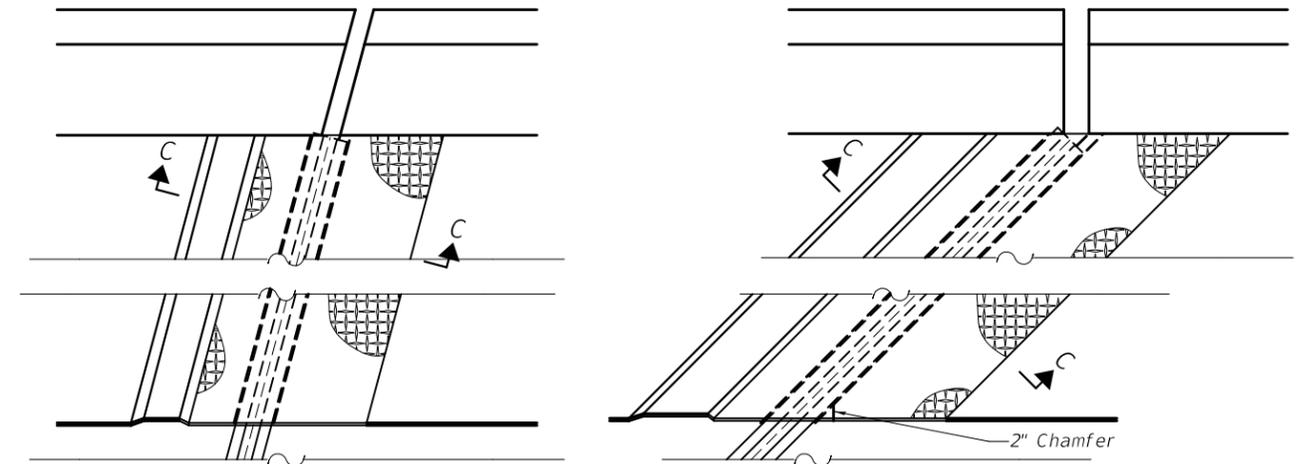
PREFORMED JOINT STRIP SEAL - SIDEWALK  
SN 016-0225

SHEET NO. 19 OF 30 SHEETS

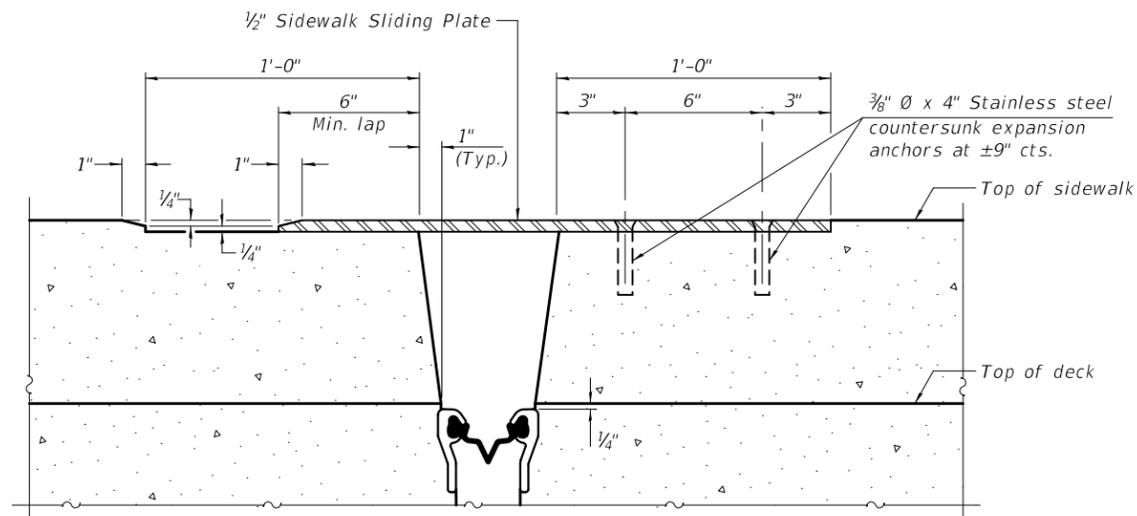
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	17
ILLINOIS			CONTRACT NO. 62F37	
FED. AID PROJECT				



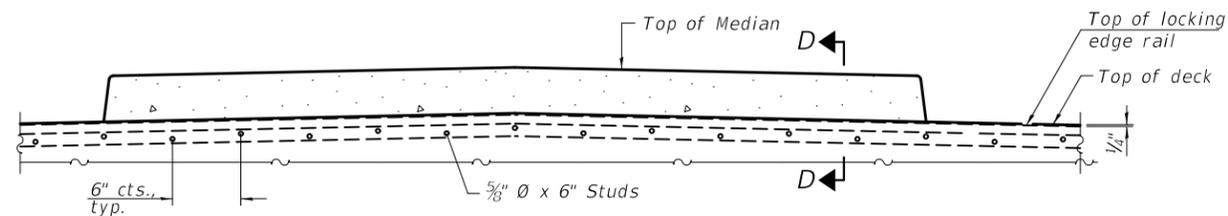
ELEVATION AT RAISED SIDEWALK



PLAN AT RAISED SIDEWALK

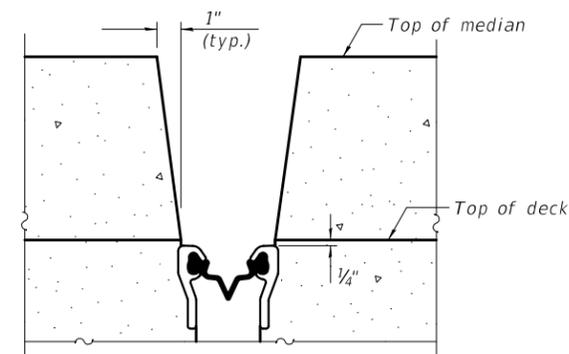


SECTION C-C

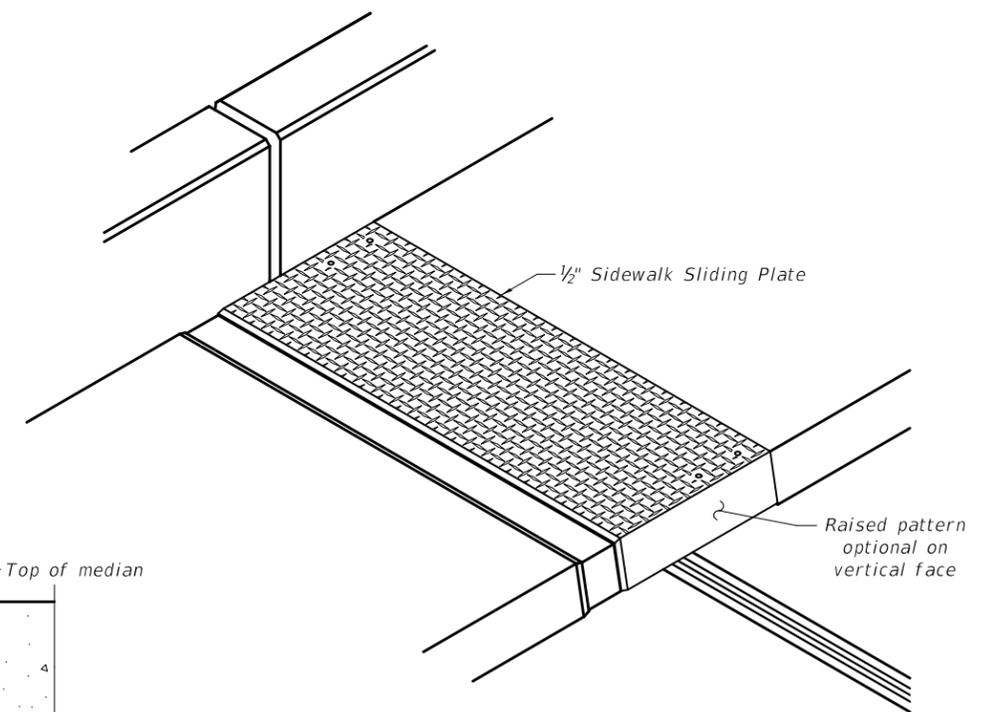


ELEVATION AT MEDIAN

For skews  $> 30^\circ$ , chamfer acute corners 2" similar to sidewalk.



SECTION D-D  
(at Rt. L's)



TRIMETRIC VIEW

EJ-SS-S

8-11-17

(Sheet 2 of 3)

DESIGNED - JOV	EXAMINED
CHECKED - JSB	PASSED
DRAWN - daburdell	
CHECKED - JOV JSB	

 TIMOTHY A. DABURDELL ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
 CARL R. RINGER ENGINEER OF BRIDGES AND STRUCTURES	REVISED - REVISED -

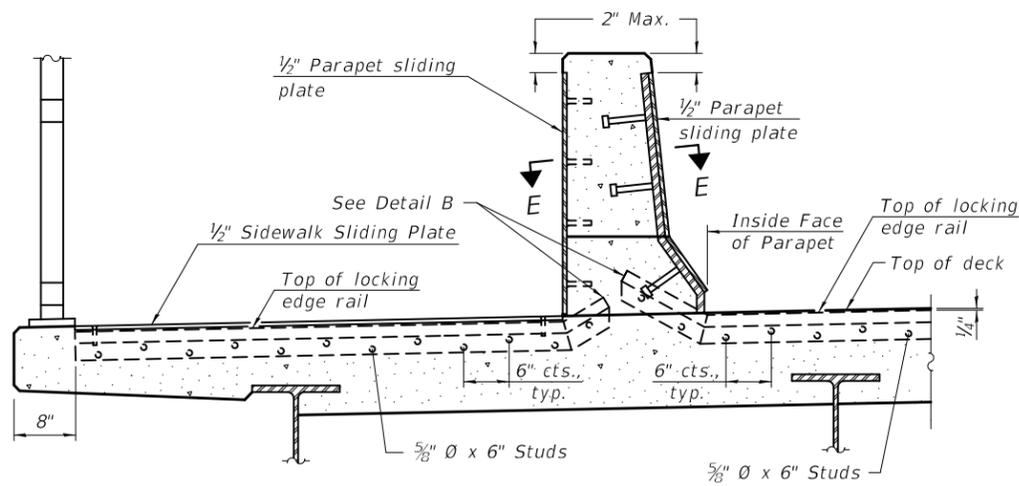
DATE - JANUARY 30, 2019
REVISED -
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

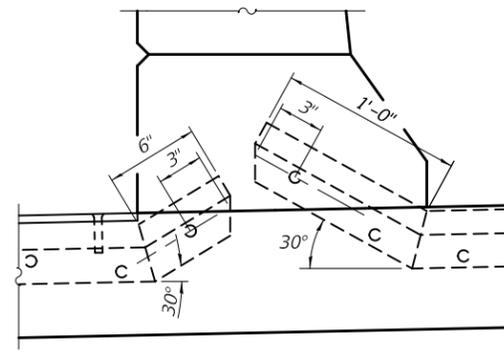
PREFORMED JOINT STRIP SEAL - SIDEWALK  
SN 016-0225

SHEET NO. 20 OF 30 SHEETS

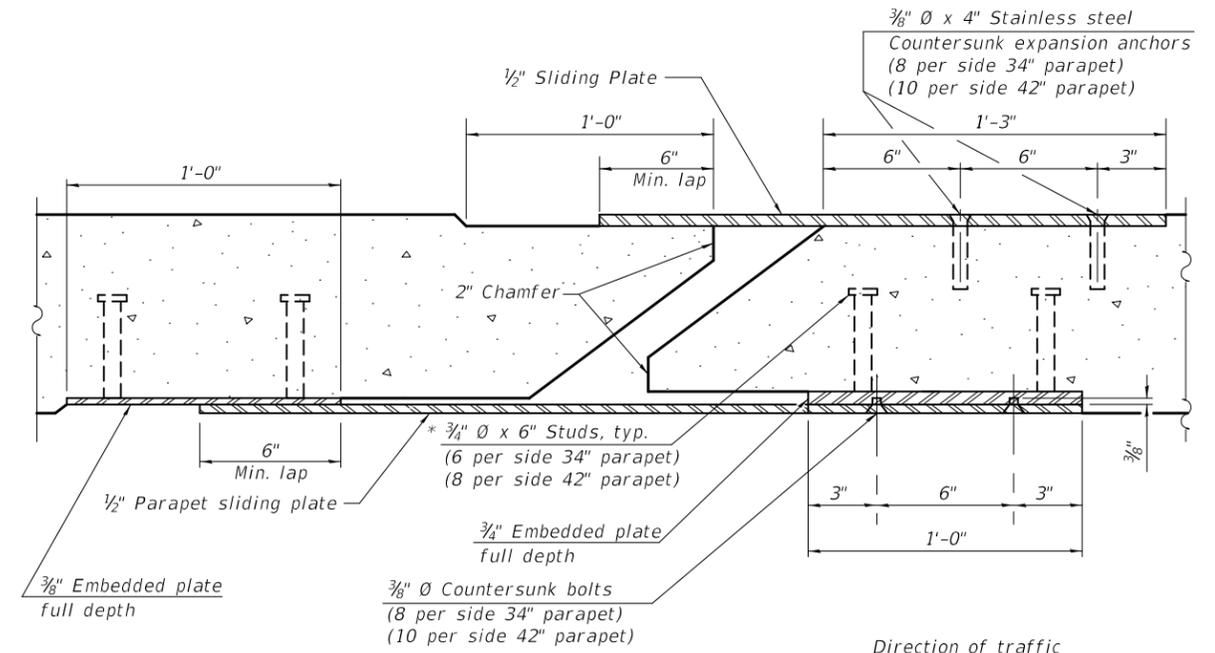
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	18
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



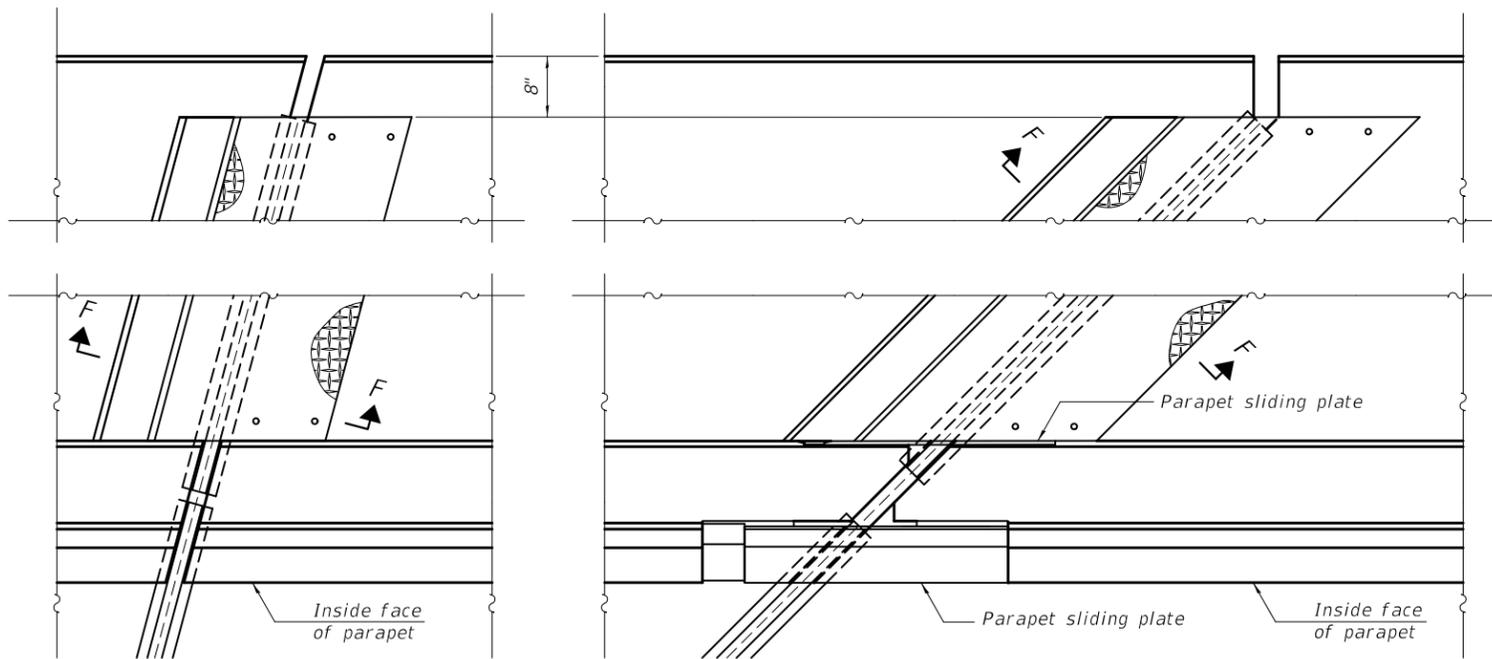
**ELEVATION AT DECK LEVEL SIDEWALK**  
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



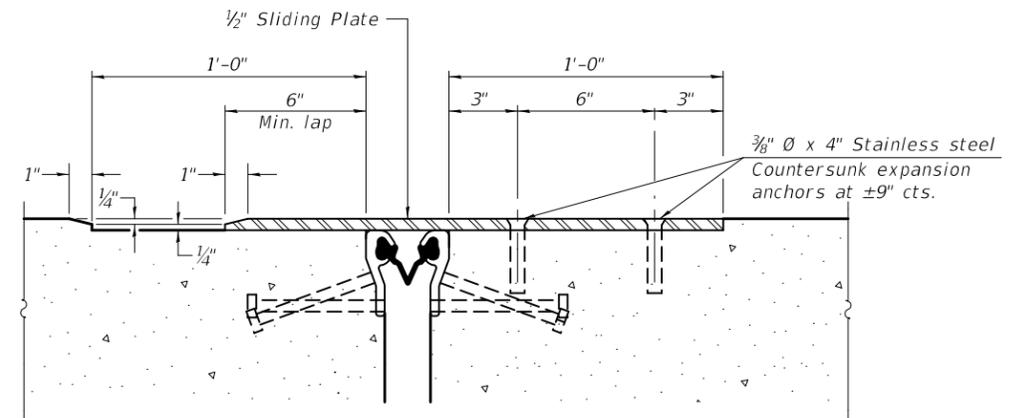
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

EJ-SS-S

8-11-17

(Sheet 3 of 3)

DESIGNED - JOV	EXAMINED
CHECKED - JSB	PASSED
DRAWN - daburdell	
CHECKED - JOV JSB	

 ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 30, 2019
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
	REVISED -

DATE - JANUARY 30, 2019
REVISED -
REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

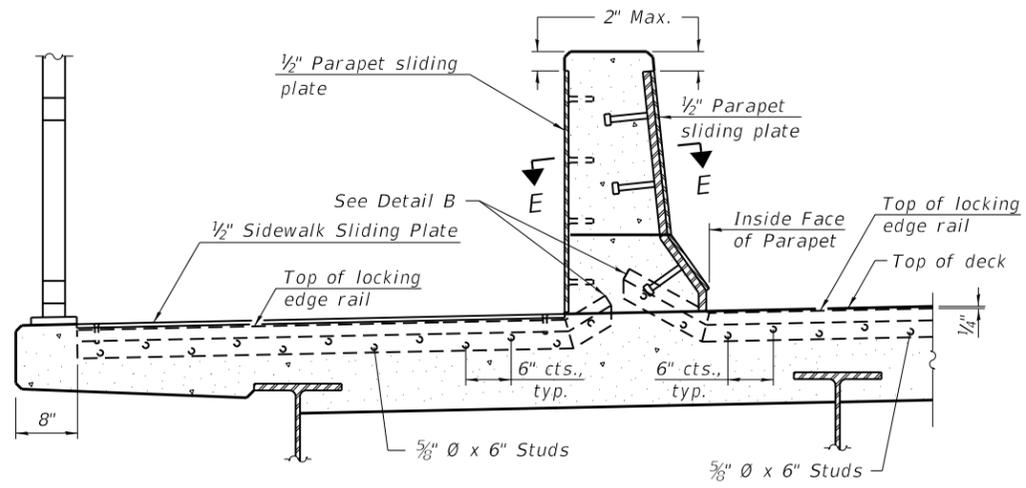
**PREFORMED JOINT STRIP SEAL - SIDEWALK  
 SN 016-0225**

SHEET NO. 21 OF 30 SHEETS

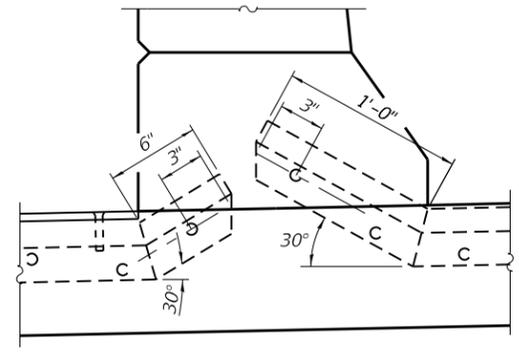
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	19
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



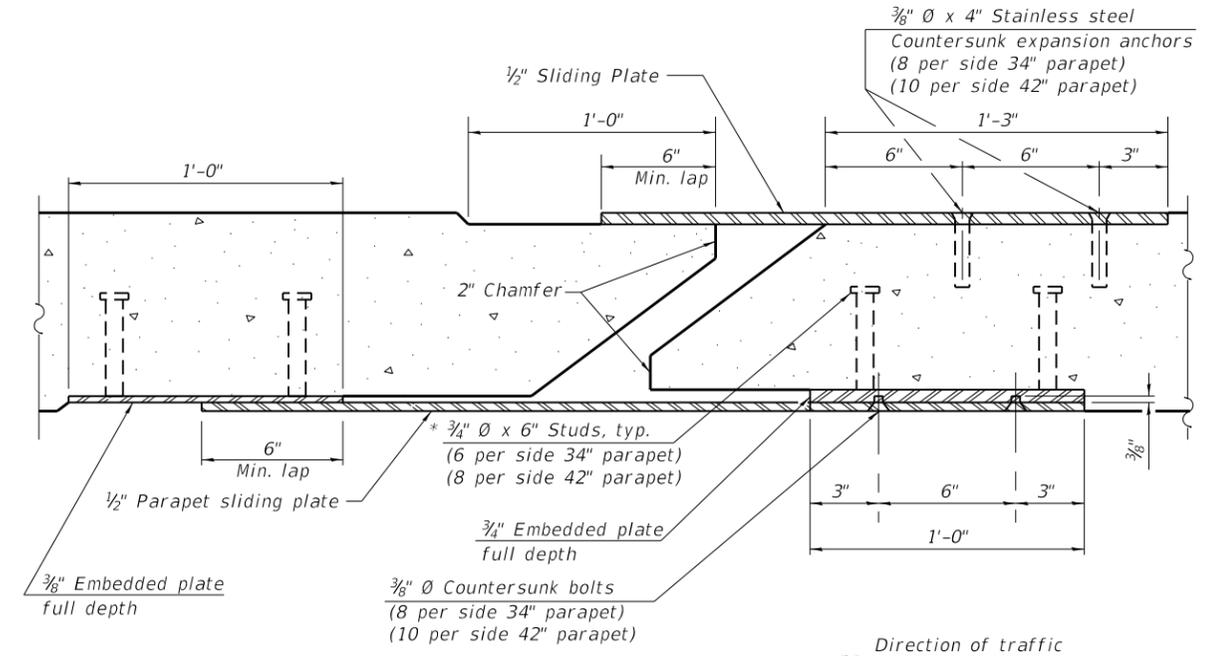




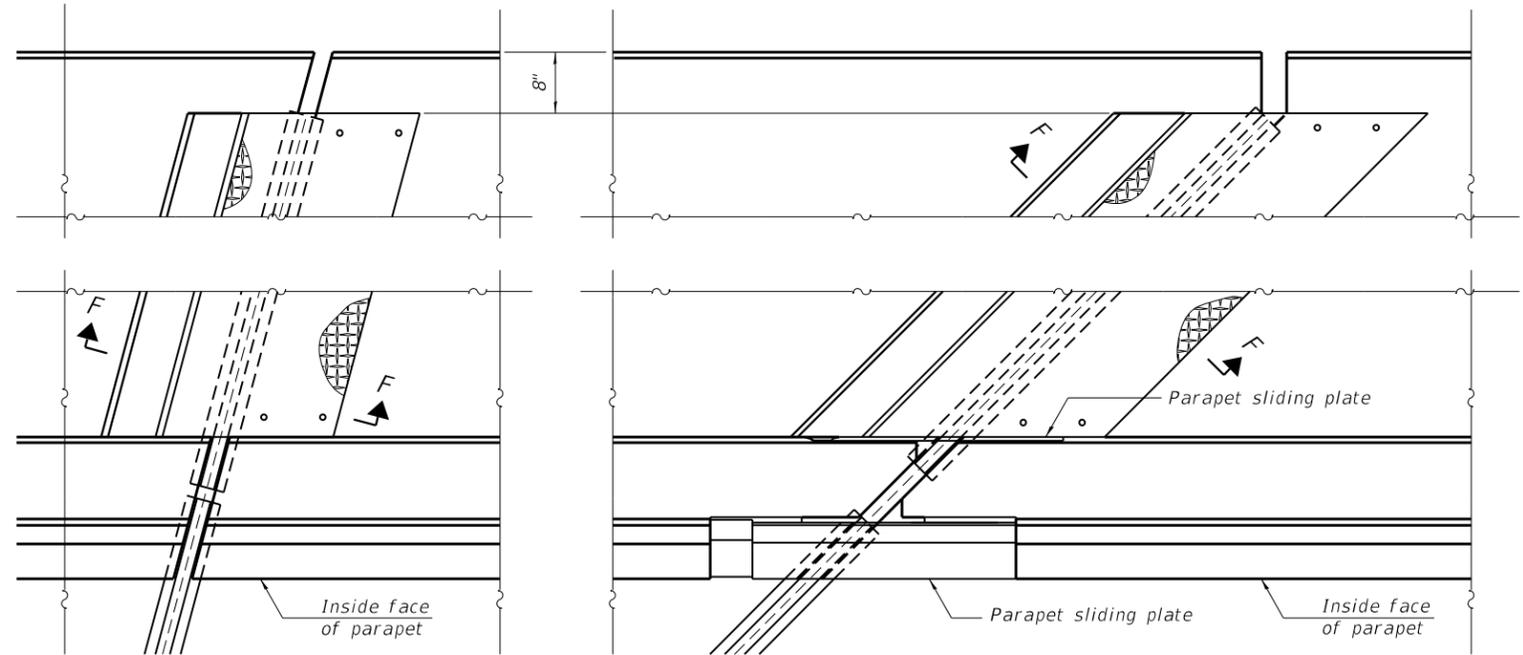
**ELEVATION AT DECK LEVEL SIDEWALK**  
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



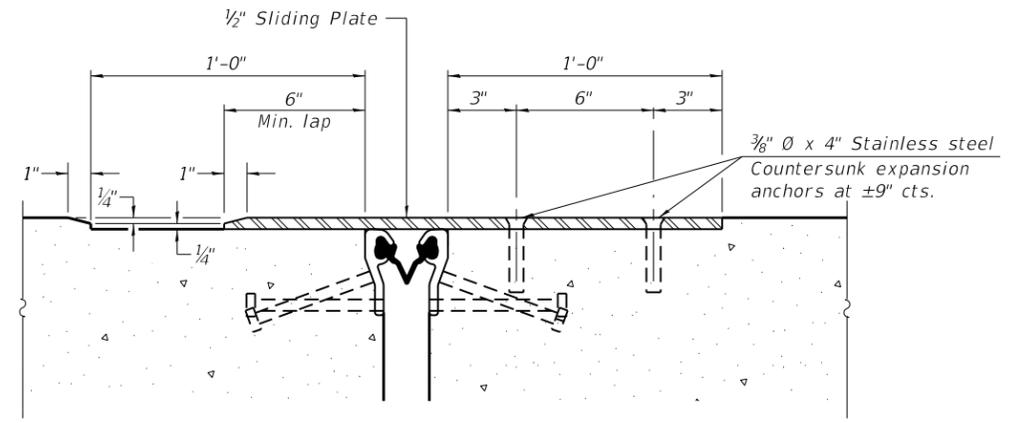
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

(Sheet 3 of 3)

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EJ-SS-S

8-11-17

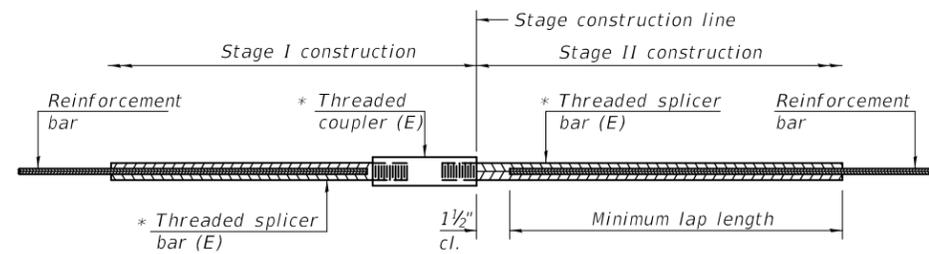
USER NAME = hassan	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/14/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0225**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION 2017-0231	COUNTY COOK	TOTAL SHEETS 42	SHEET NO. 19C
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				

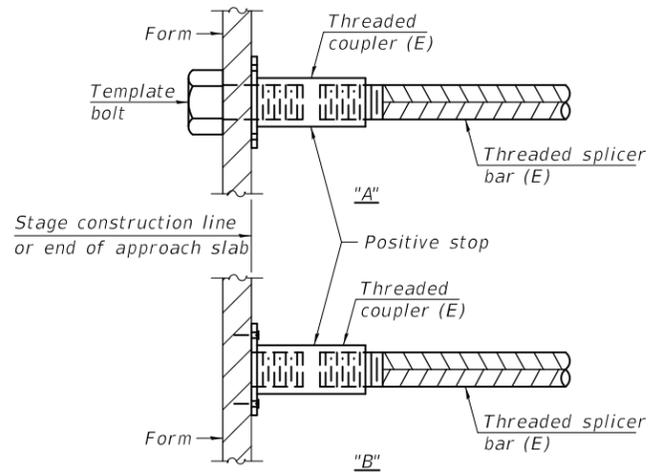


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

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

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	64	3'-6"
Abutments	#6	8	4'-0"

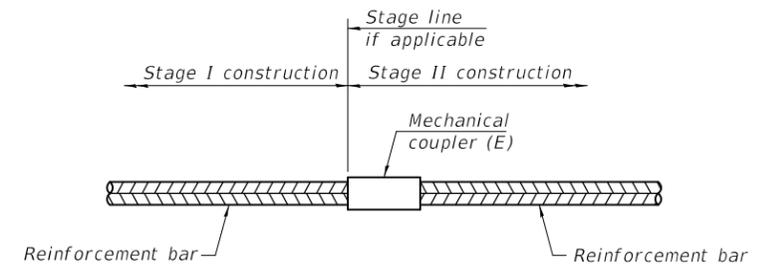


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

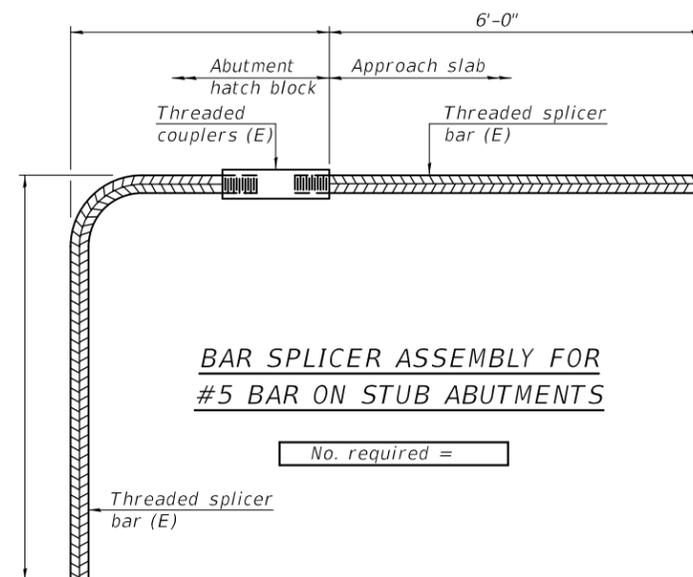
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

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

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

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

BSD-1

2-17-2017

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
 PASSED

Timothy A. Daburdell  
 ENGINEER OF STRUCTURAL SERVICES  
 Carl R. Rieger  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 30, 2019

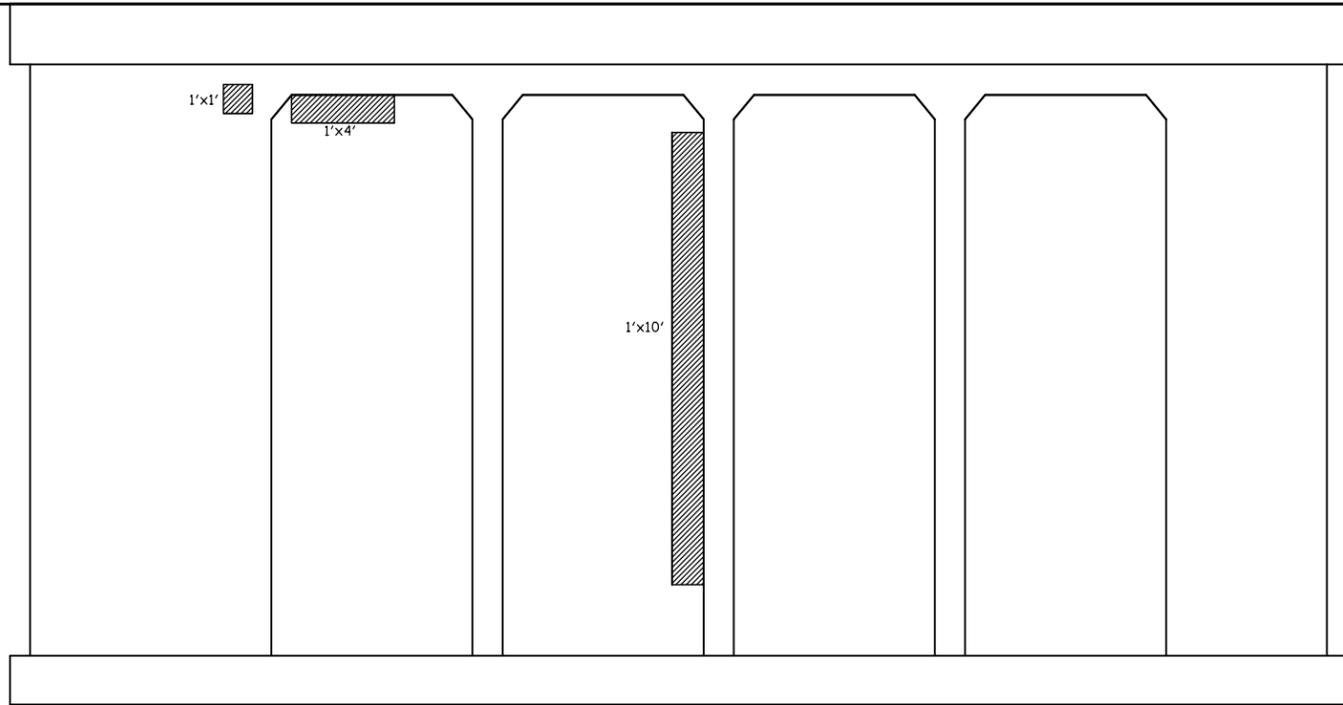
REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 SN 016-0225

SHEET NO. 22 OF 30 SHEETS

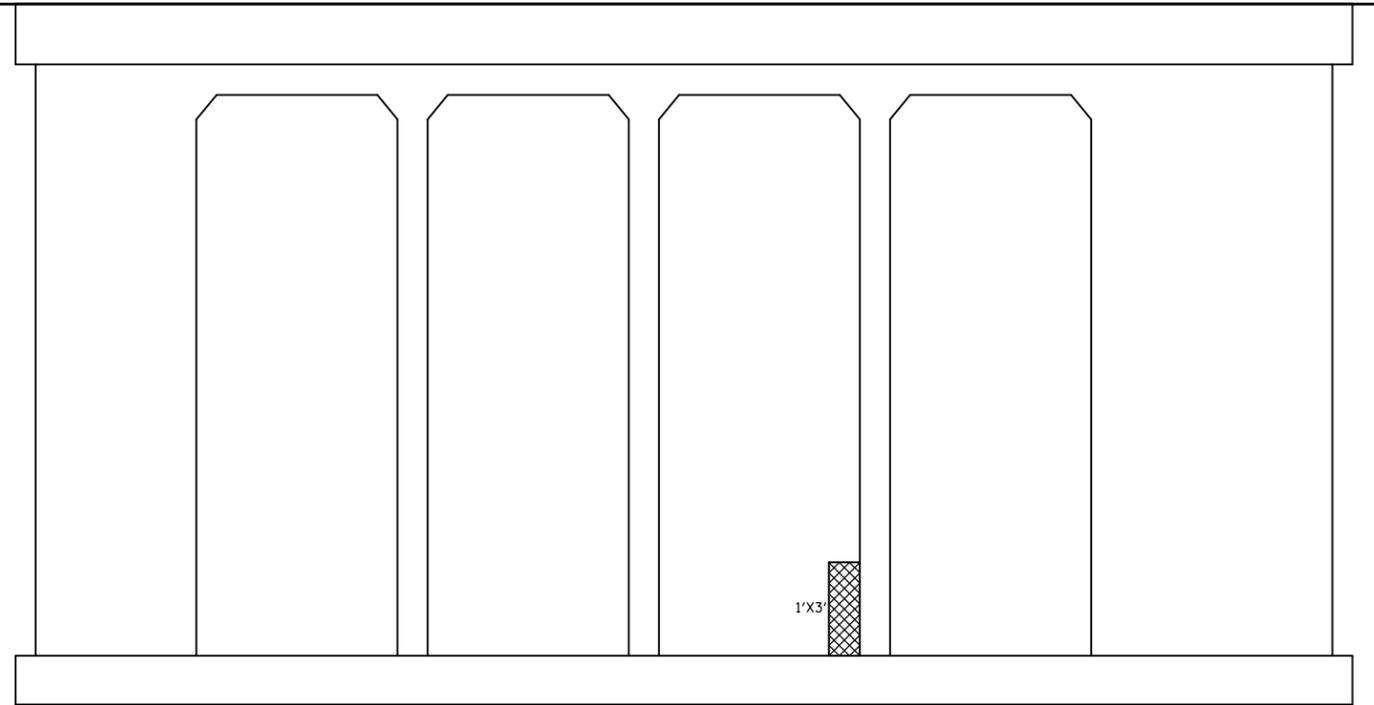
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	20
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



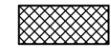
**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $\leq$  5"

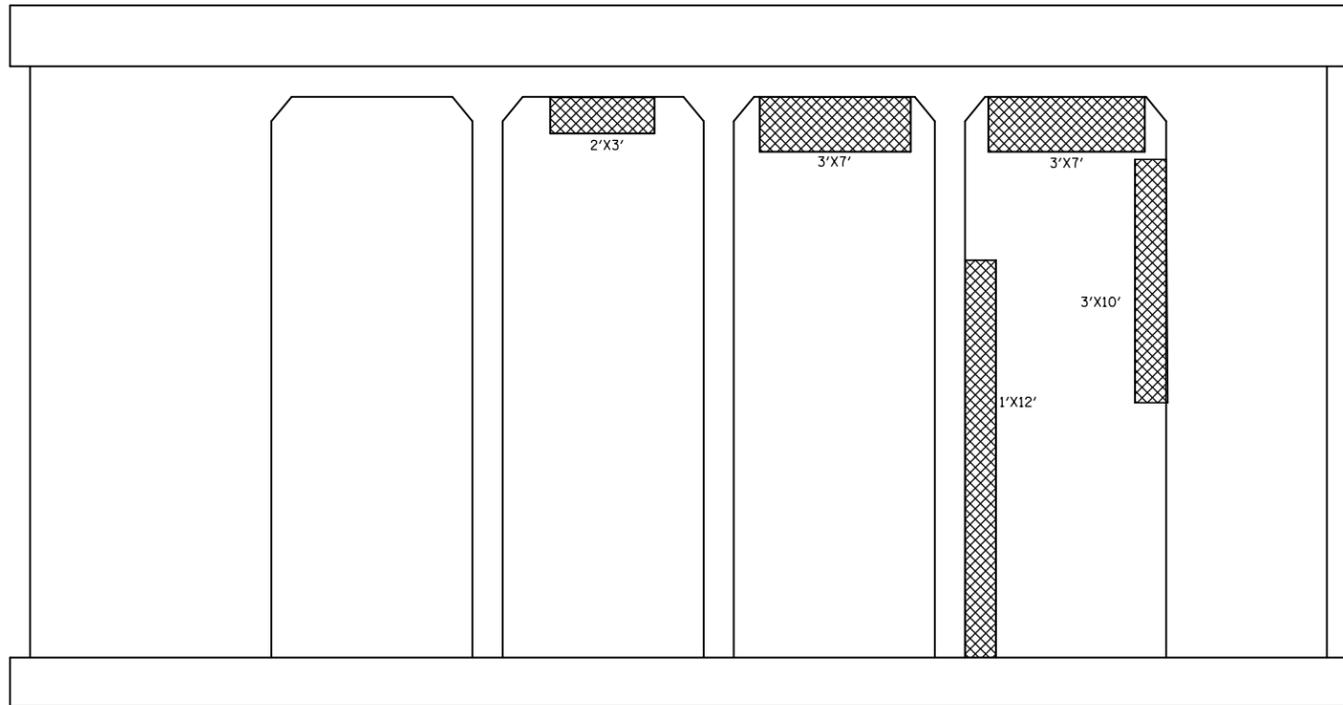
**PIER NO. 1 (WEST FACE)**



**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $>$ 5"

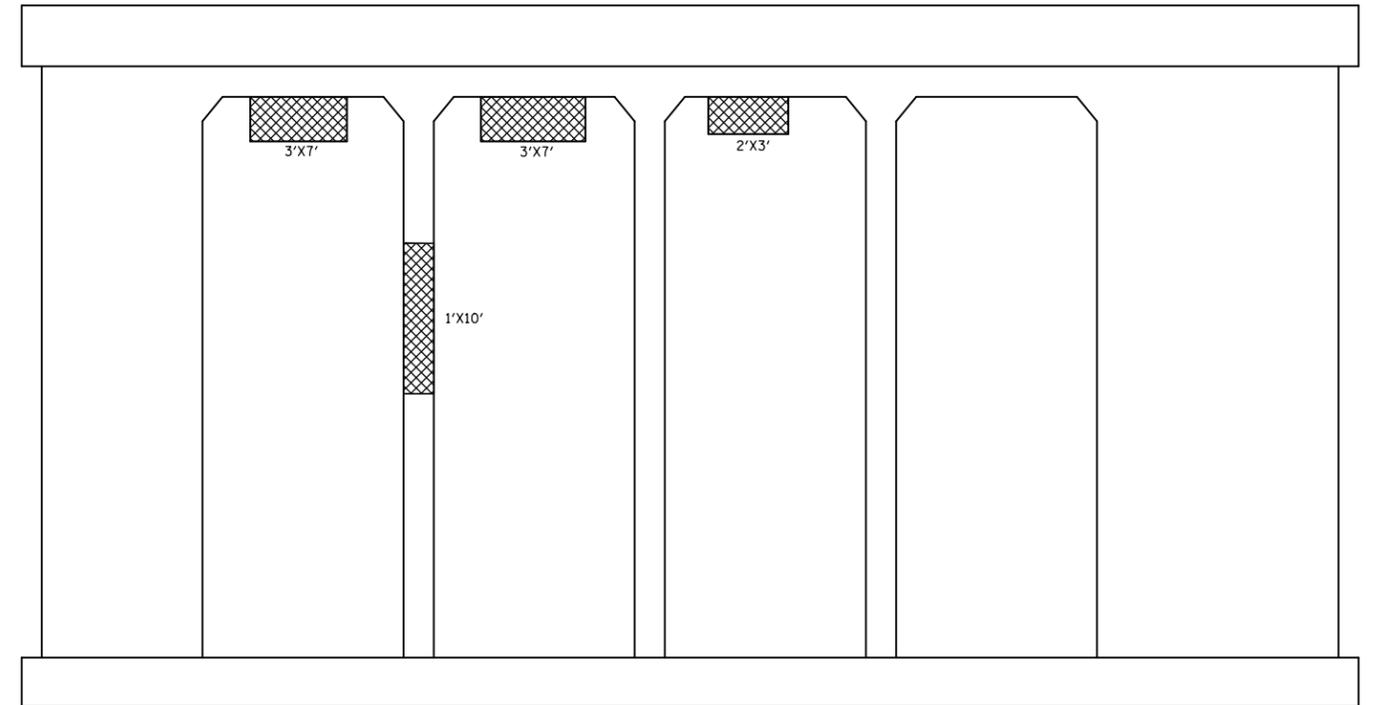
**PIER NO. 1 (EAST FACE)**



**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $>$ 5"

**PIER NO. 2 (WEST FACE)**



**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $>$ 5"

**PIER NO. 2 (EAST FACE)**

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH $\leq$ 5"	SQ. FT.	15
STRUCTURAL REPAIR OF CONCRETE DEPTH $>$ 5"	SQ. FT.	151

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
 PASSED

*Timothy A. Daburdell*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl Ringer*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 30, 2019

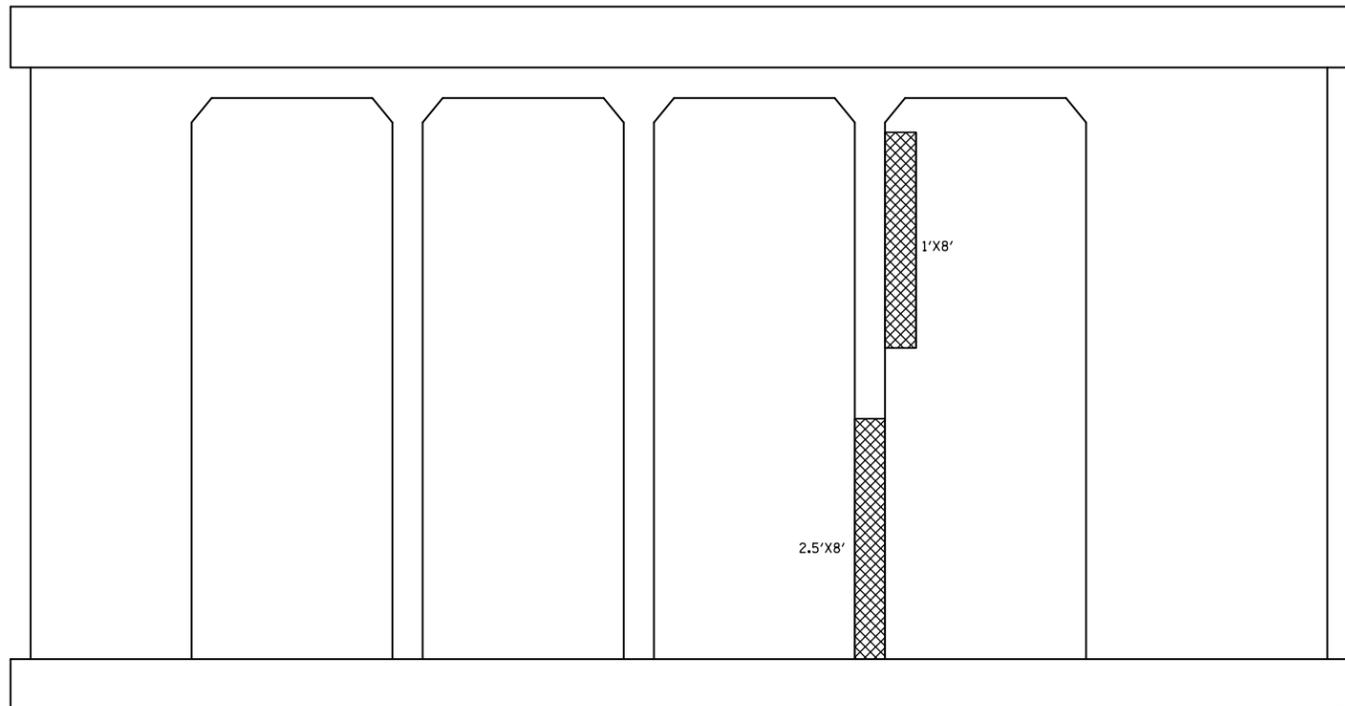
REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS  
 SN 016-0225

SHEET NO. 23 OF 30 SHEETS

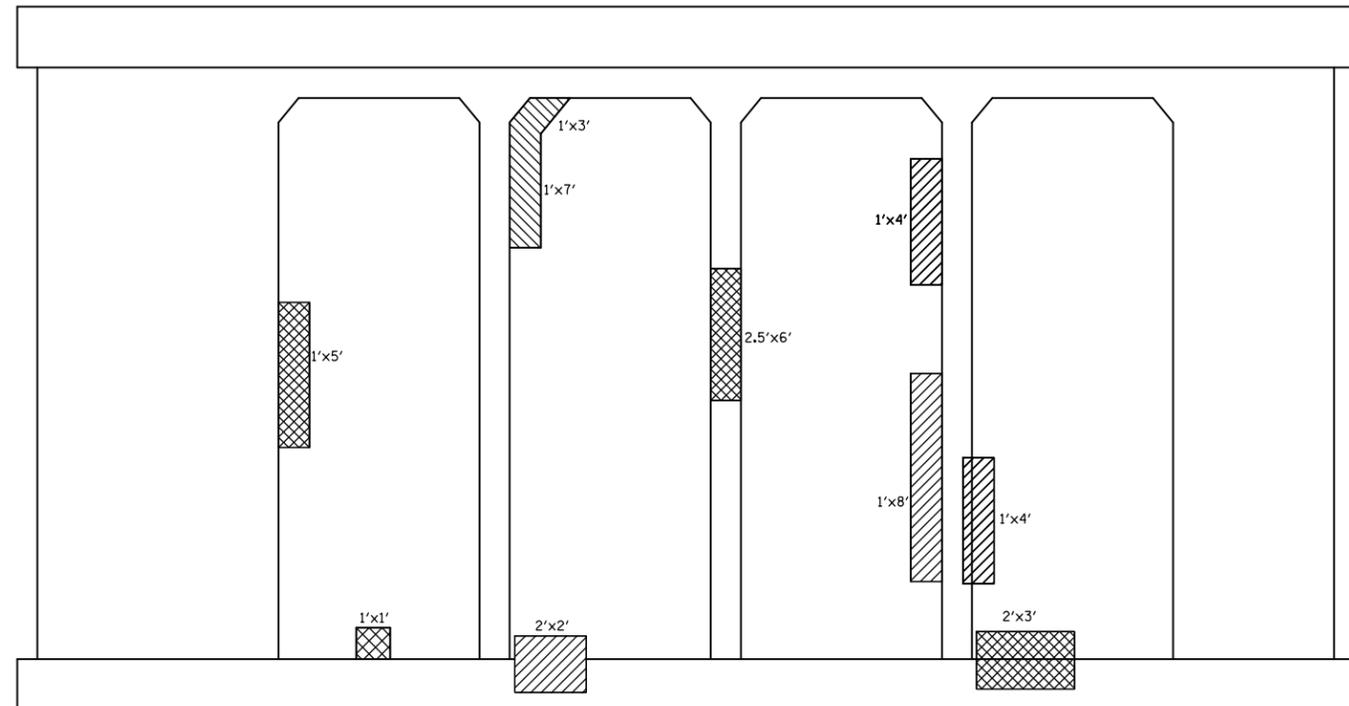
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	21
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

STRUCTURAL REPAIR OF CONCRETE >5"

**PIER NO. 3 (WEST FACE)**

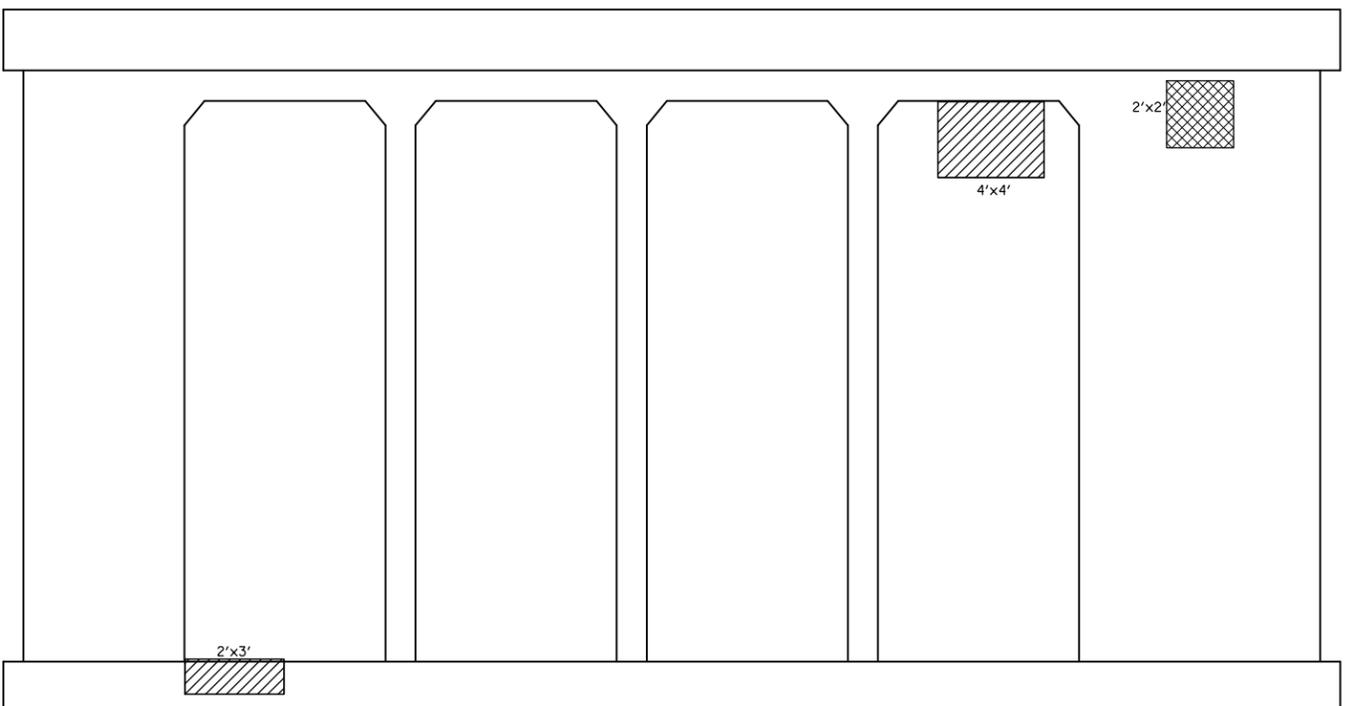


**LEGEND:**

STRUCTURAL REPAIR OF CONCRETE ≤5"

STRUCTURAL REPAIR OF CONCRETE >5"

**PIER NO. 3 (EAST FACE)**

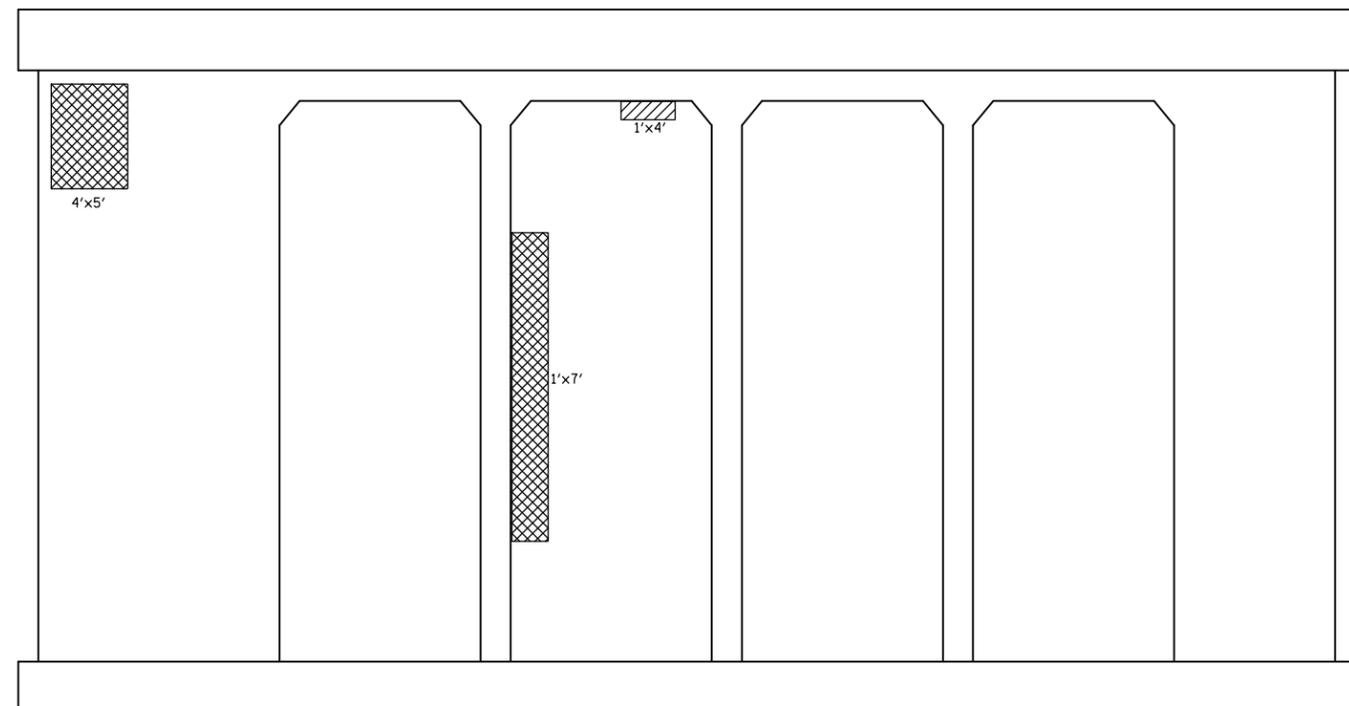


**LEGEND:**

STRUCTURAL REPAIR OF CONCRETE ≤5"

STRUCTURAL REPAIR OF CONCRETE >5"

**PIER NO. 4 (WEST FACE)**



**LEGEND:**

STRUCTURAL REPAIR OF CONCRETE ≤5"

STRUCTURAL REPAIR OF CONCRETE >5"

**PIER NO. 4 (EAST FACE)**

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"	SQ. FT.	56
STRUCTURAL REPAIR OF CONCRETE DEPTH > 5"	SQ. FT.	86

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
  
 ENGINEER OF BRIDGES AND STRUCTURES

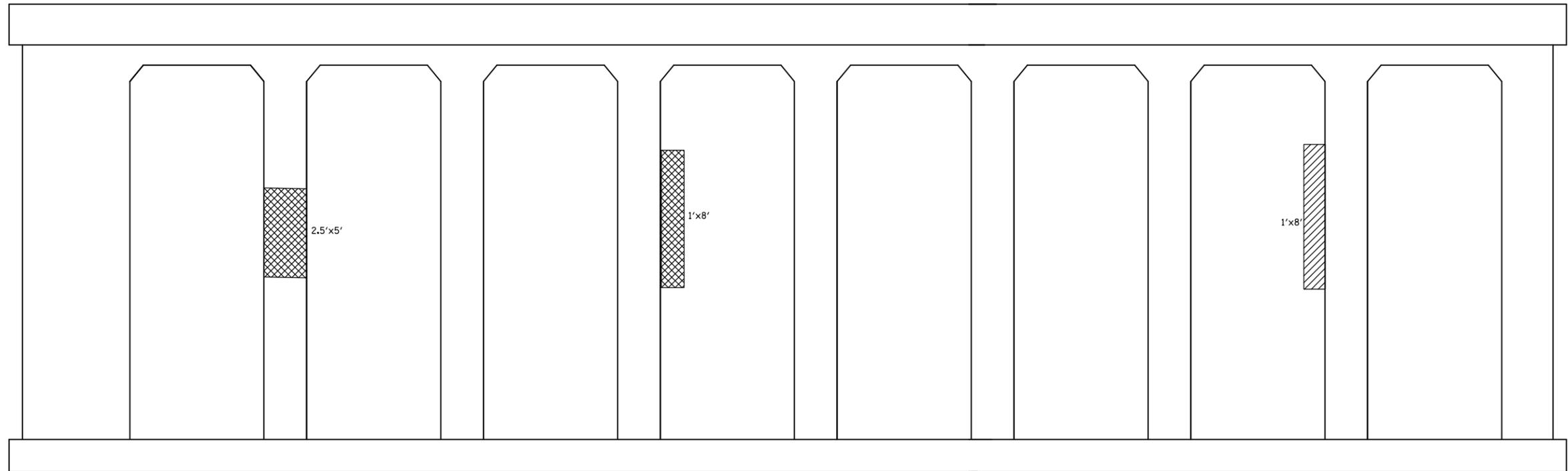
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

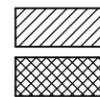
PIER REPAIR DETAILS  
 SN 016-0225

SHEET NO. 24 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	22
CONTRACT NO. 62F37				
ILLINOIS   FED. AID PROJECT				



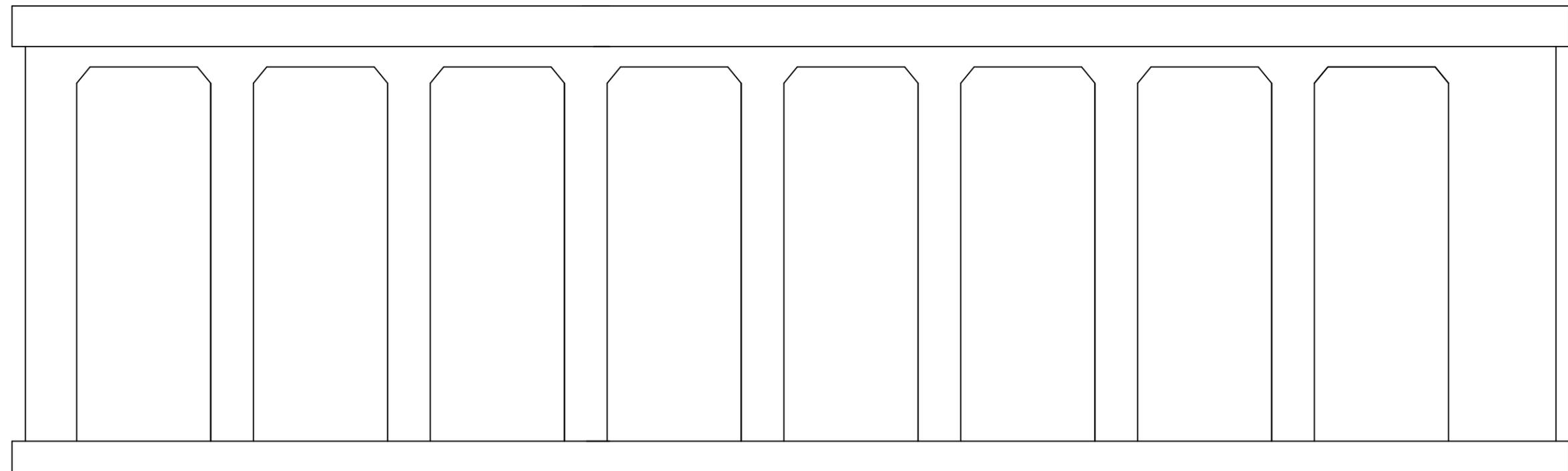
**LEGEND:**



STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

STRUCTURAL REPAIR OF CONCRETE  $> 5''$

**PIER NO. 5 (EAST FACE)**



**PIER NO. 5 (WEST FACE)**

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH $\leq 5''$	SQ. FT.	8
STRUCTURAL REPAIR OF CONCRETE DEPTH $> 5''$	SQ. FT.	21

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
 PASSED

*Timothy A. Daburdell*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl Berger*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 30, 2019

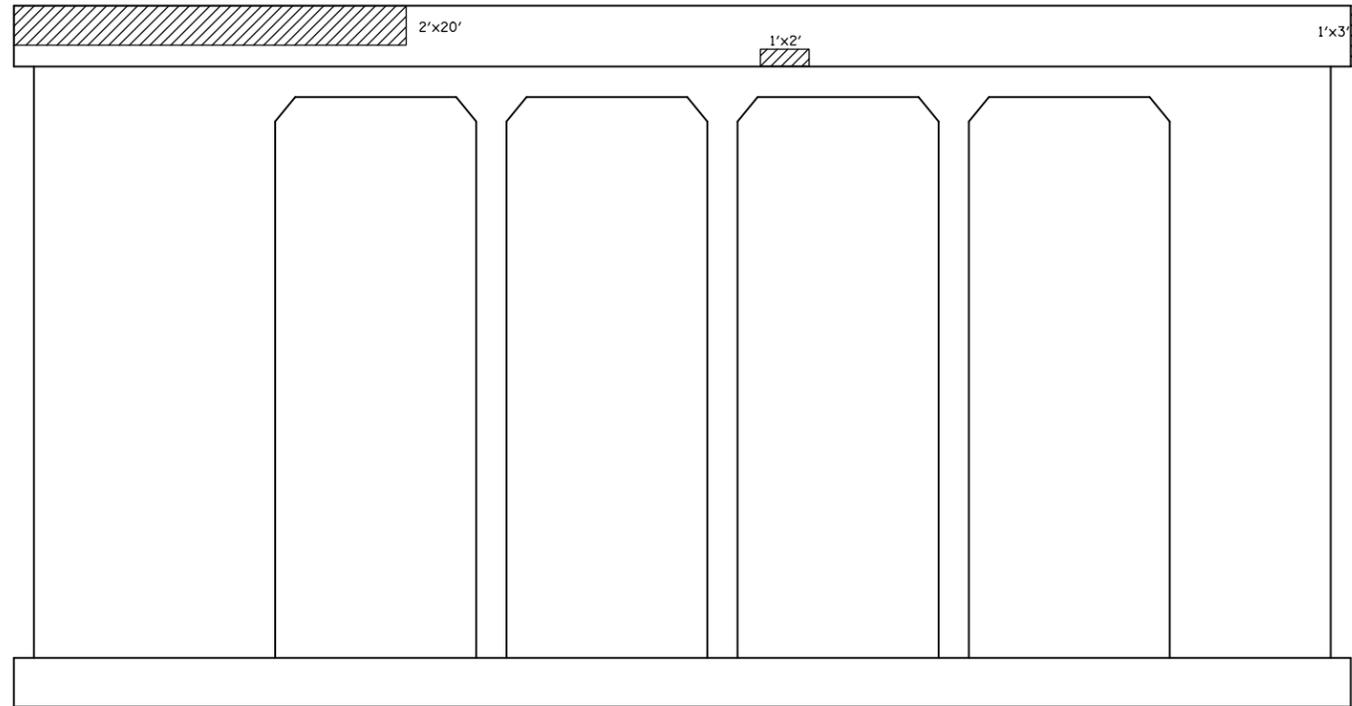
REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS  
 SN 016-0225

SHEET NO. 25 OF 30 SHEETS

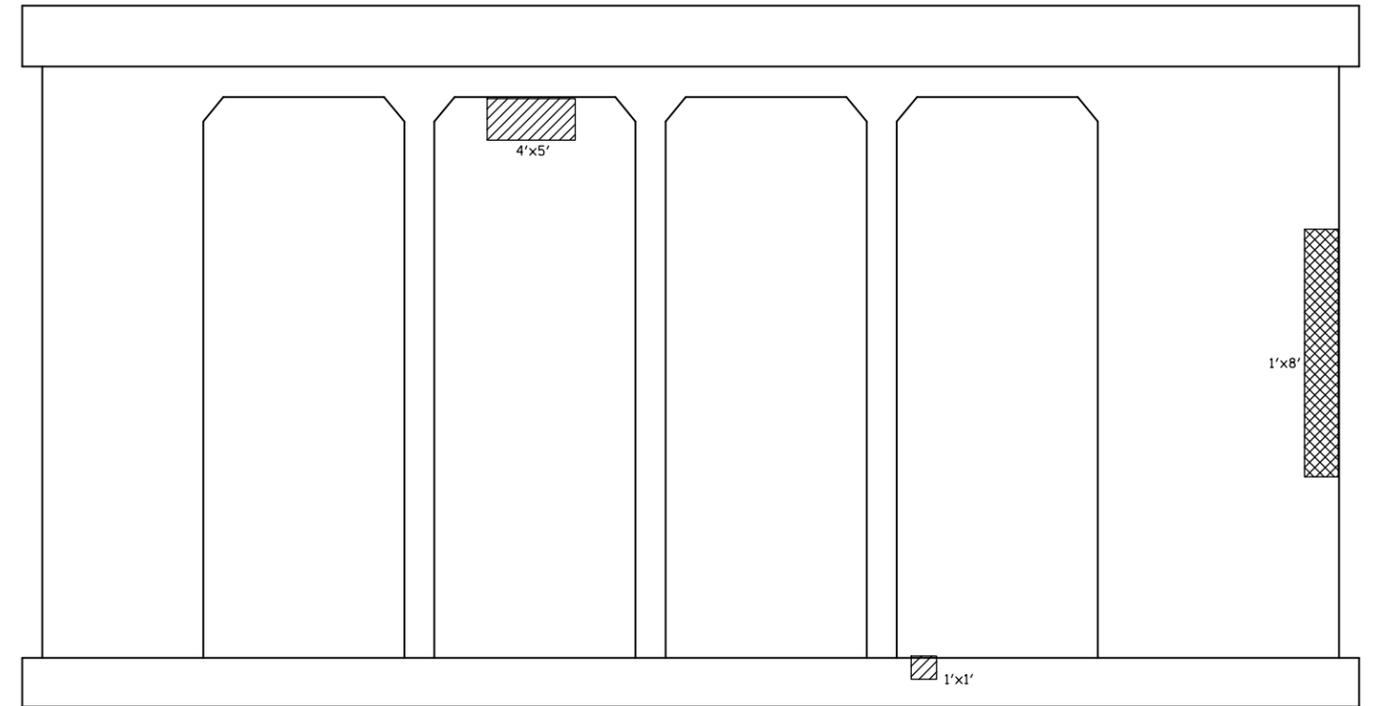
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	23
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

**PIER NO. 6 (EAST FACE)**

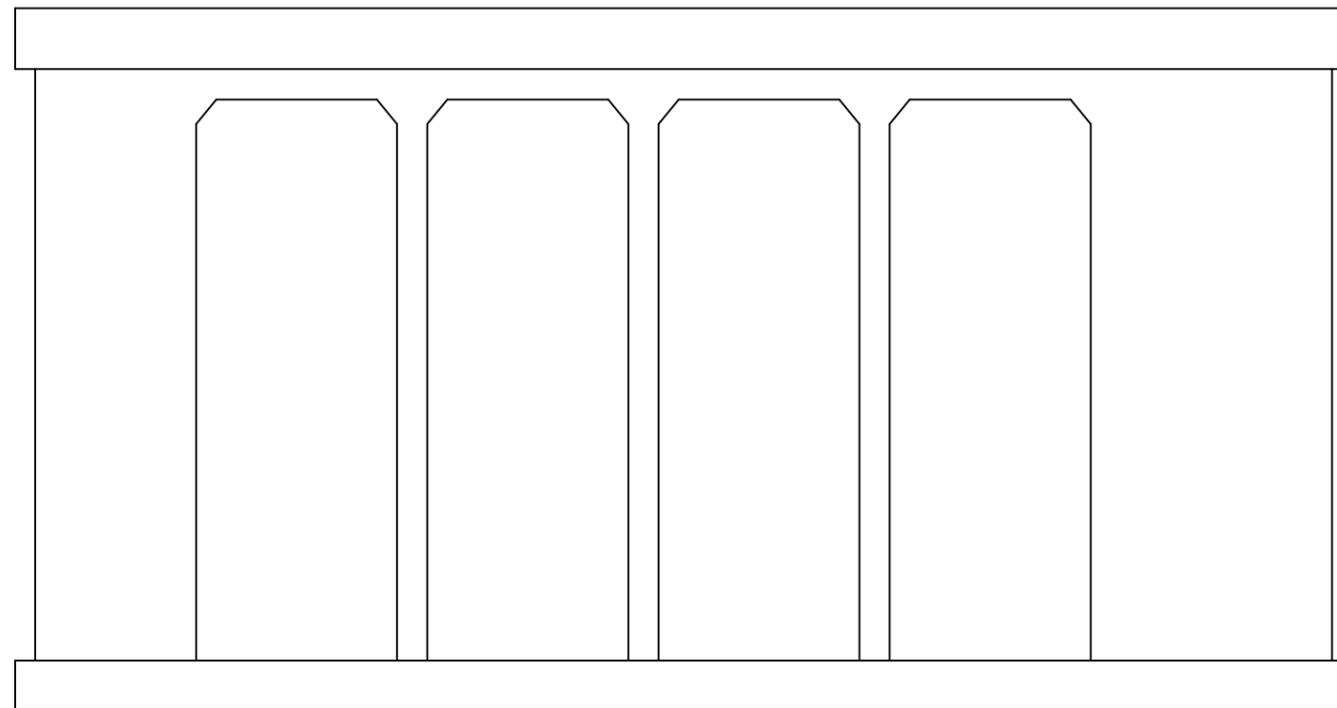


**LEGEND:**

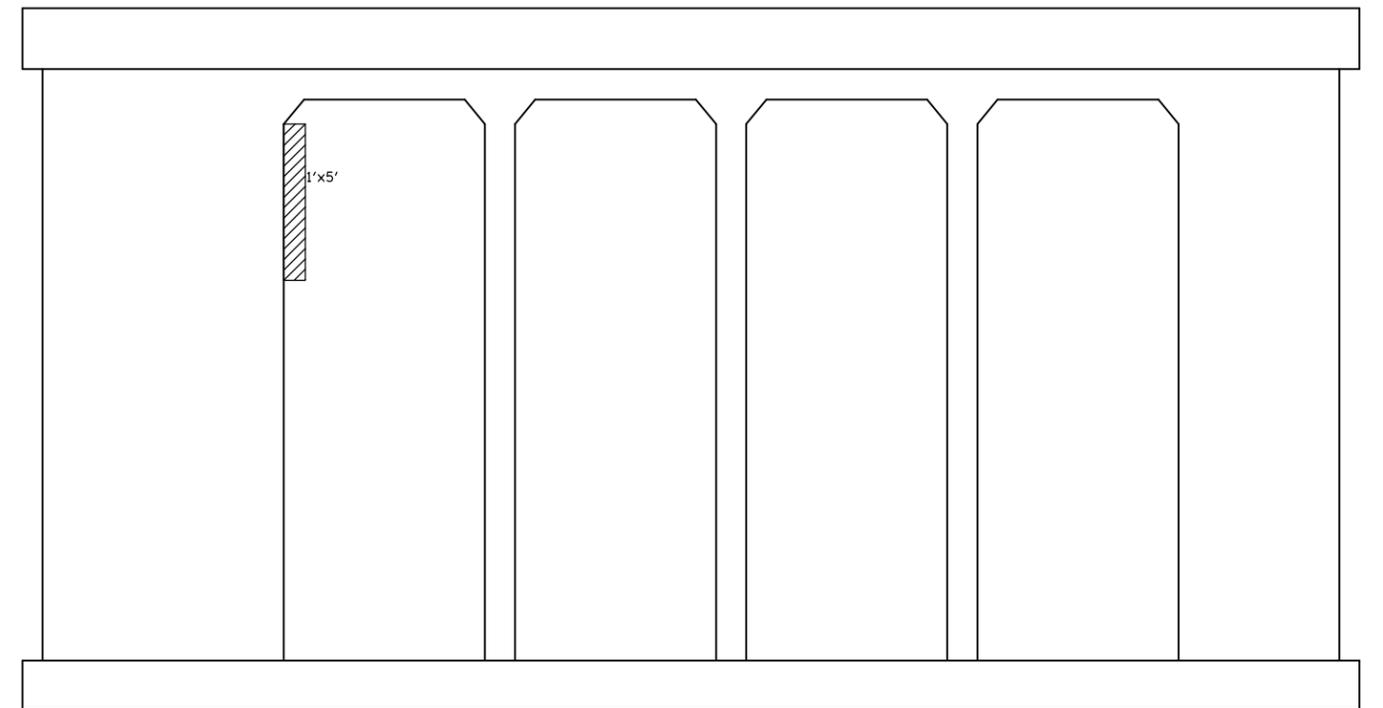
 STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

 STRUCTURAL REPAIR OF CONCRETE  $> 5''$

**PIER NO. 6 (WEST FACE)**



**PIER NO. 7 (WEST FACE)**



**LEGEND:**

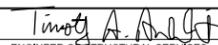
 STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

**PIER NO. 7 (EAST FACE)**

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH $\leq 5''$	SQ. FT.	71
STRUCTURAL REPAIR OF CONCRETE DEPTH $> 5''$	SQ. FT.	8

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
  
 ENGINEER OF BRIDGES AND STRUCTURES

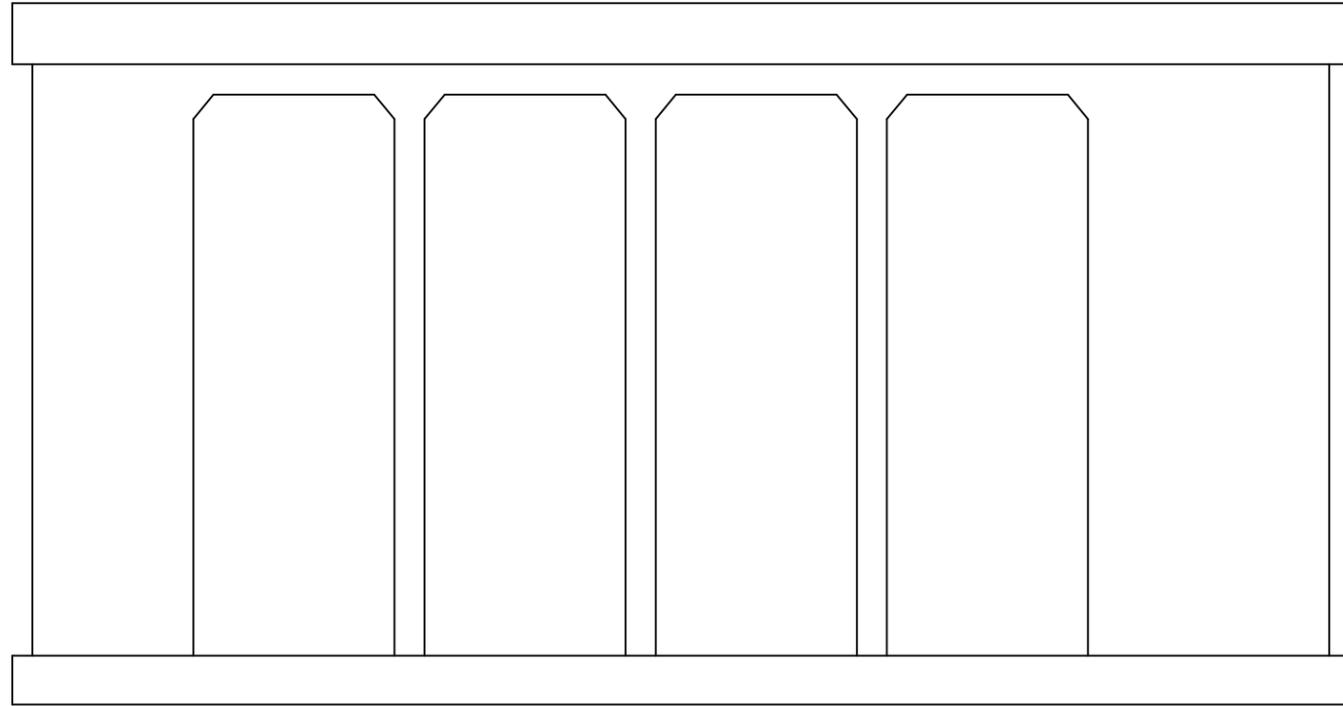
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

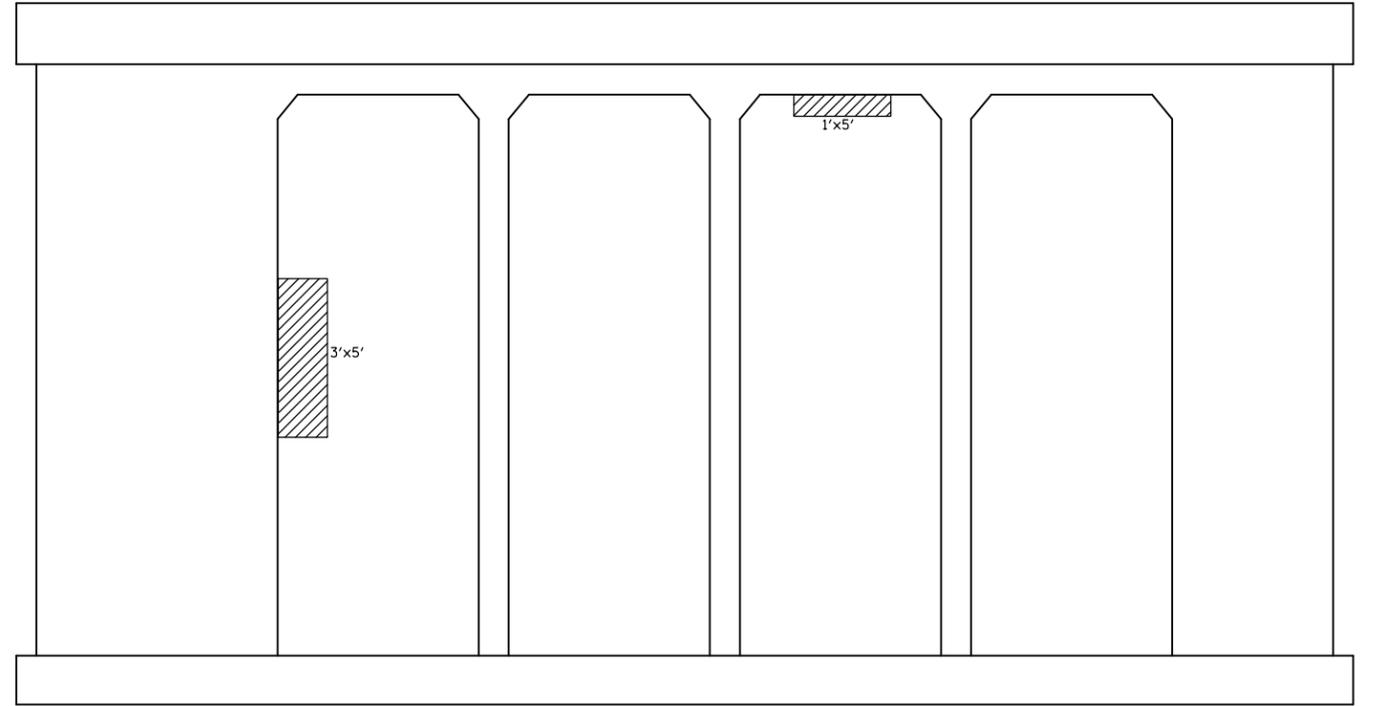
PIER REPAIR DETAILS  
 SN 016-0225

SHEET NO. 26 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	24
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				

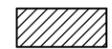


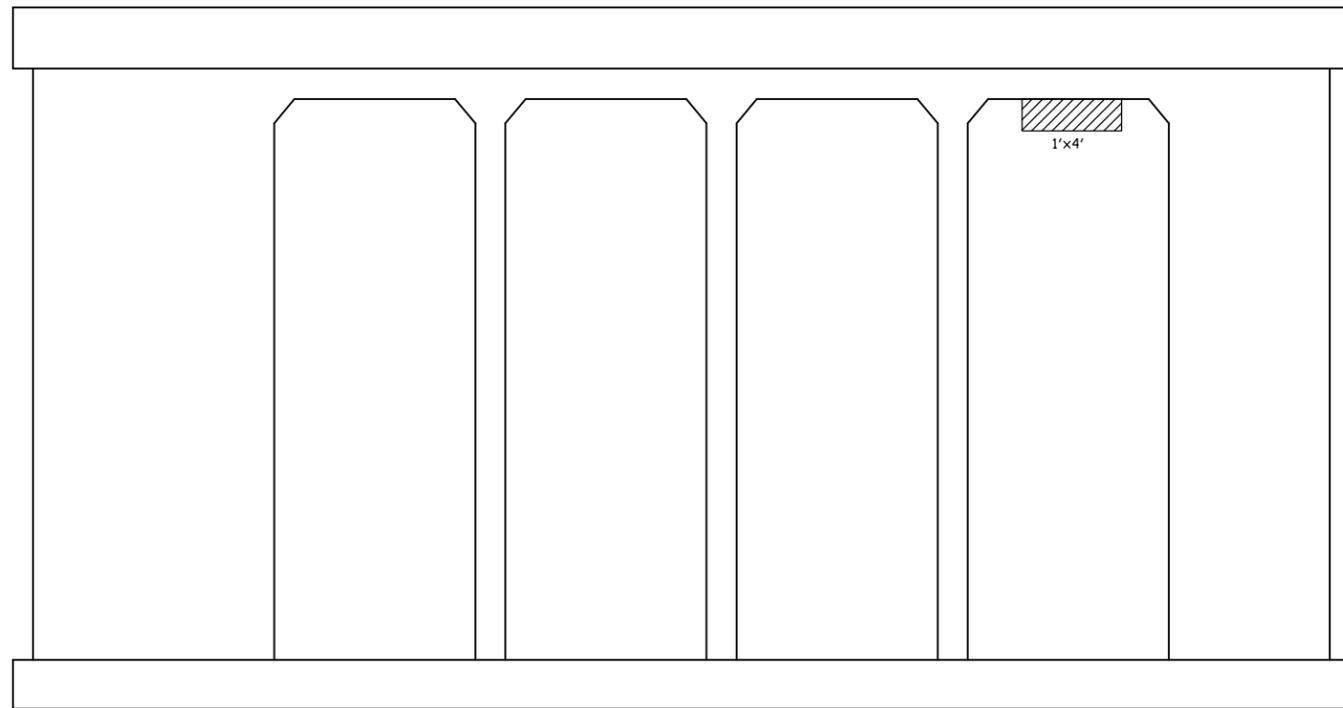
**PIER NO. 8 (WEST FACE)**



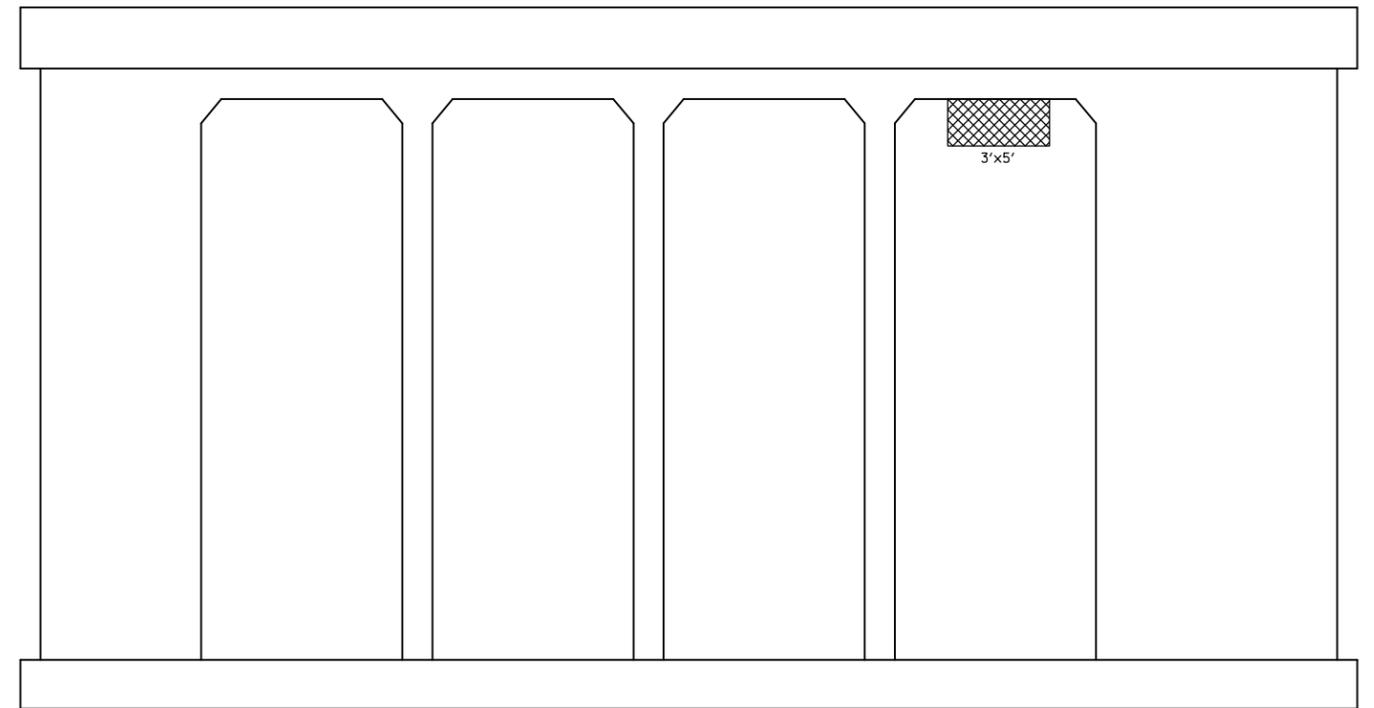
**PIER NO. 8 (EAST FACE)**

**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$



**PIER NO. 9 (EAST FACE)**



**PIER NO. 9 (WEST FACE)**

**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $> 5''$

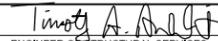
**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH $\leq 5''$	SQ. FT.	24
STRUCTURAL REPAIR OF CONCRETE DEPTH $> 5''$	SQ. FT.	15

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
  
 ENGINEER OF BRIDGES AND STRUCTURES

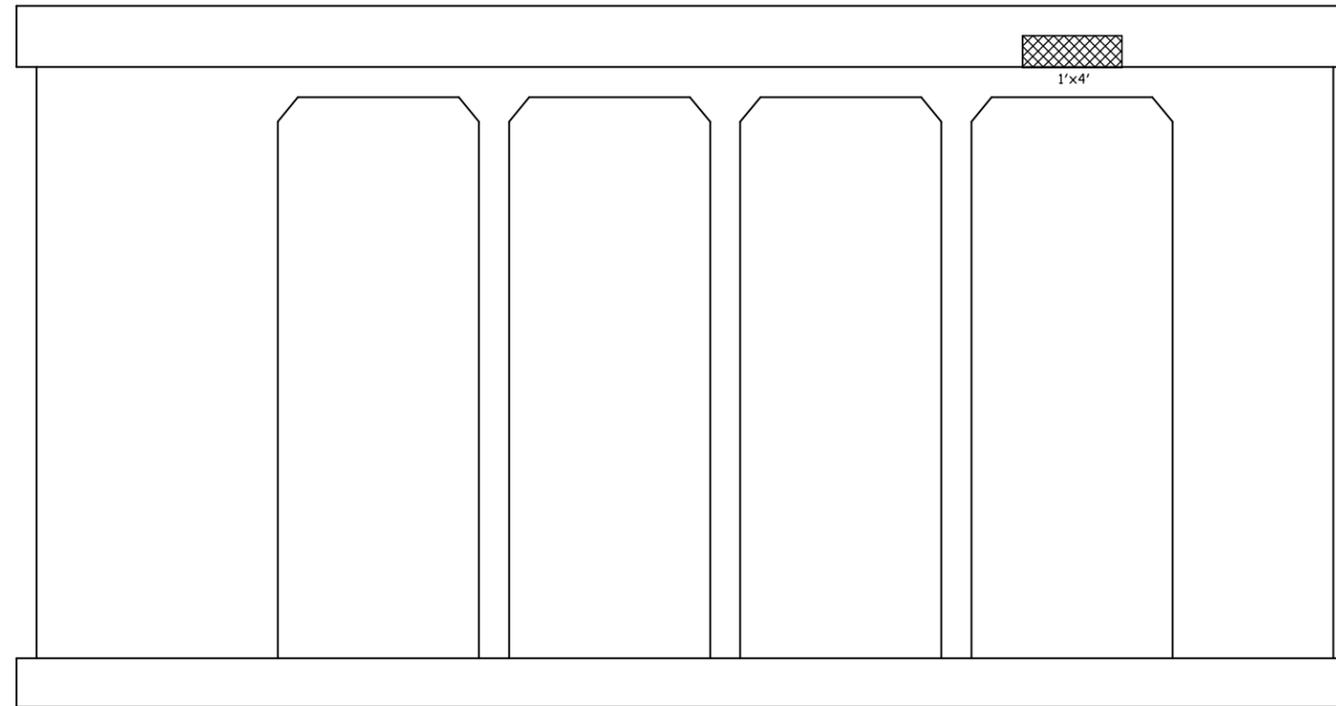
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS  
 SN 016-0225

SHEET NO. 27 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	25
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



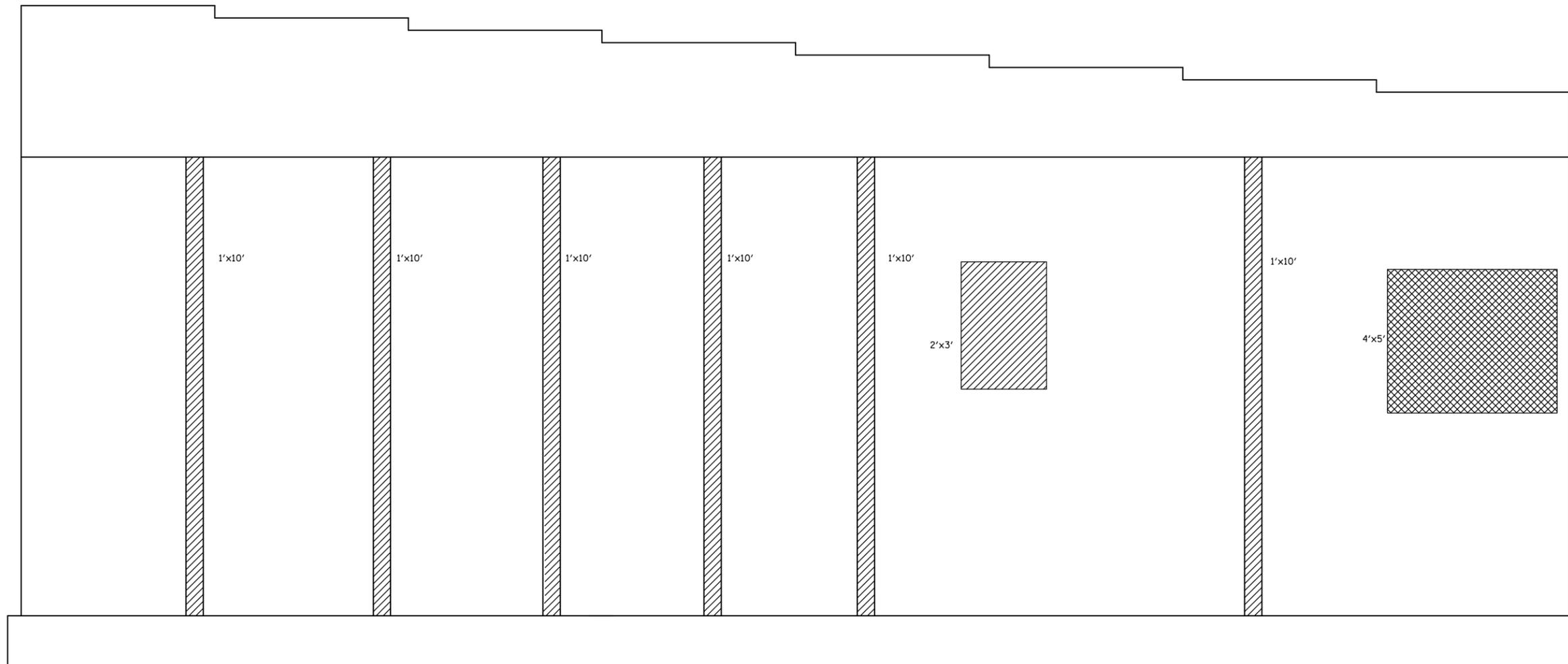
**PIER NO. 10 (WEST FACE)**

**LEGEND:**

 STRUCTURAL REPAIR OF CONCRETE >5"

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH > 5"	SQ. FT.	4



**EAST ABUTMENT  
(LOOKING EAST)**

**LEGEND:**



STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

STRUCTURAL REPAIR OF CONCRETE  $> 5''$

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH $\leq 5''$	SQ. FT.	66
STRUCTURAL REPAIR OF CONCRETE DEPTH $> 5''$	SQ. FT.	20

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
  
 ENGINEER OF BRIDGES AND STRUCTURES

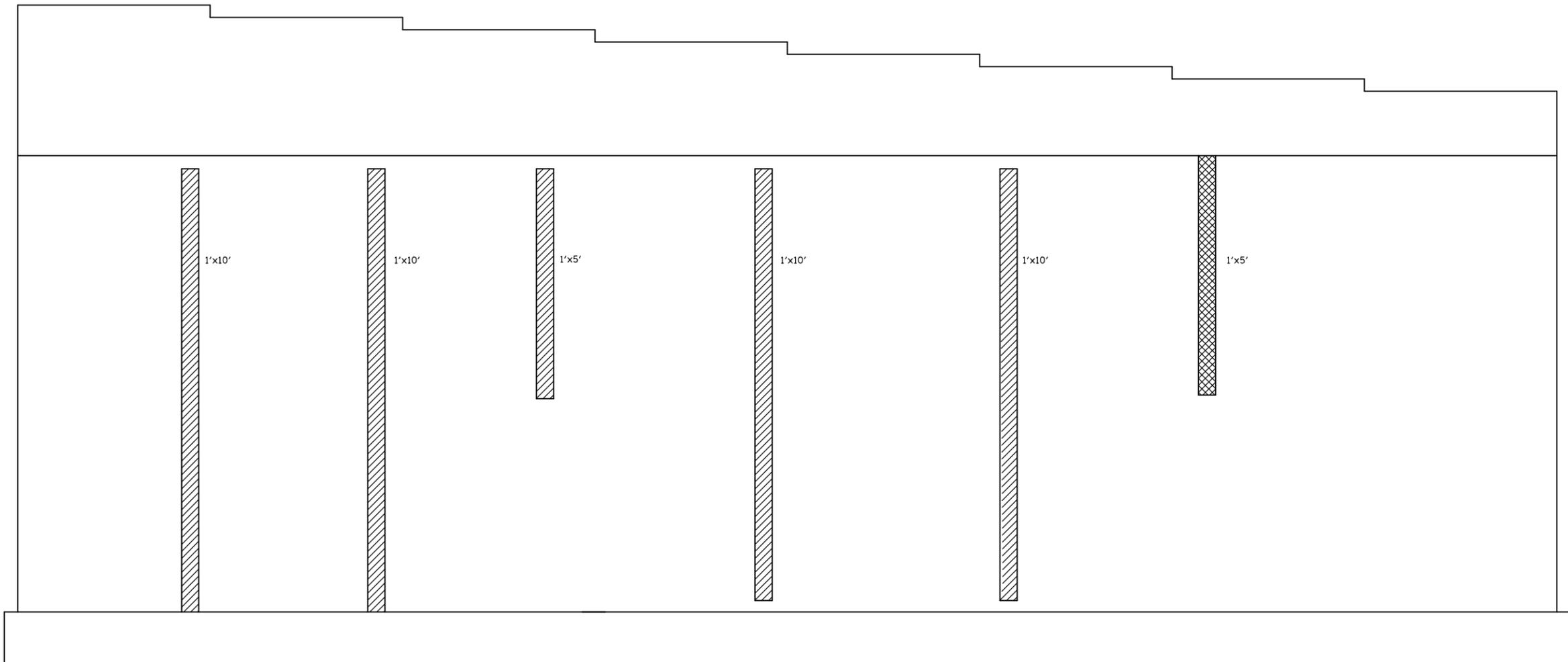
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT REPAIR DETAILS  
SN 016-0225**

SHEET NO. 29 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	27
CONTRACT NO. 62F37				
		ILLINOIS	FED. AID PROJECT	



**WEST ABUTMENT  
(LOOKING WEST)**

**LEGEND:**

-  STRUCTURAL REPAIR OF CONCRETE ≤5"
-  STRUCTURAL REPAIR OF CONCRETE >5"

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤5"	SQ. FT.	45
STRUCTURAL REPAIR OF CONCRETE DEPTH >5"	SQ. FT.	5

DESIGNED - JOV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - JOV JSB

EXAMINED  
*Timothy A. Daburdell*  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
*Carl R. Meyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

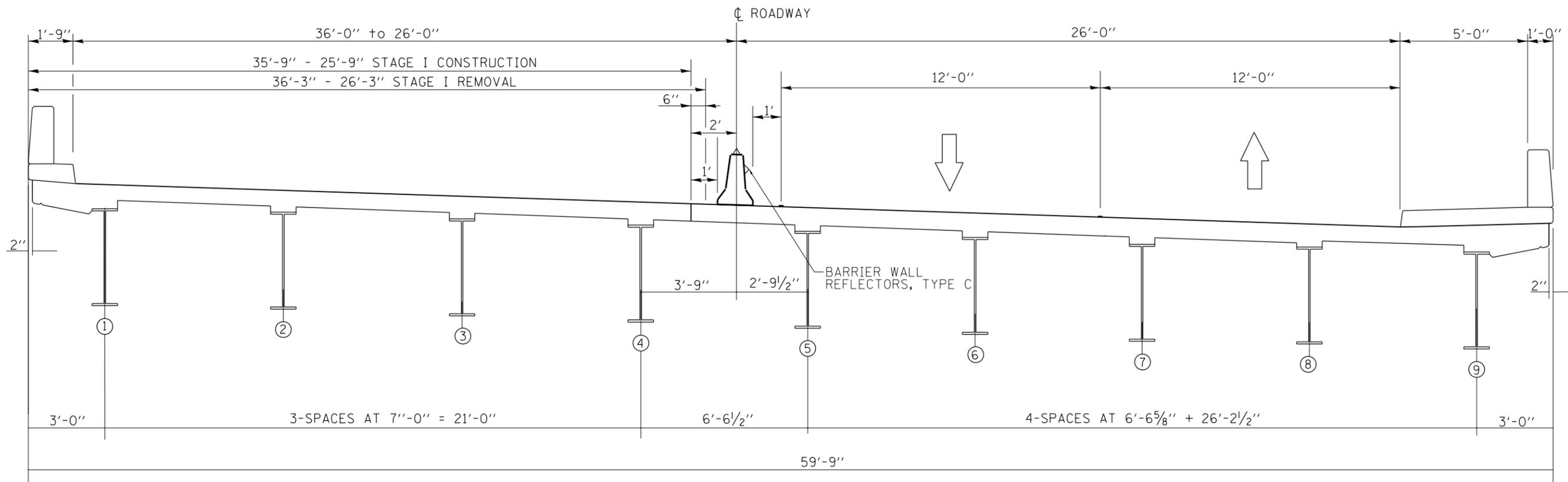
DATE - JANUARY 30, 2019  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

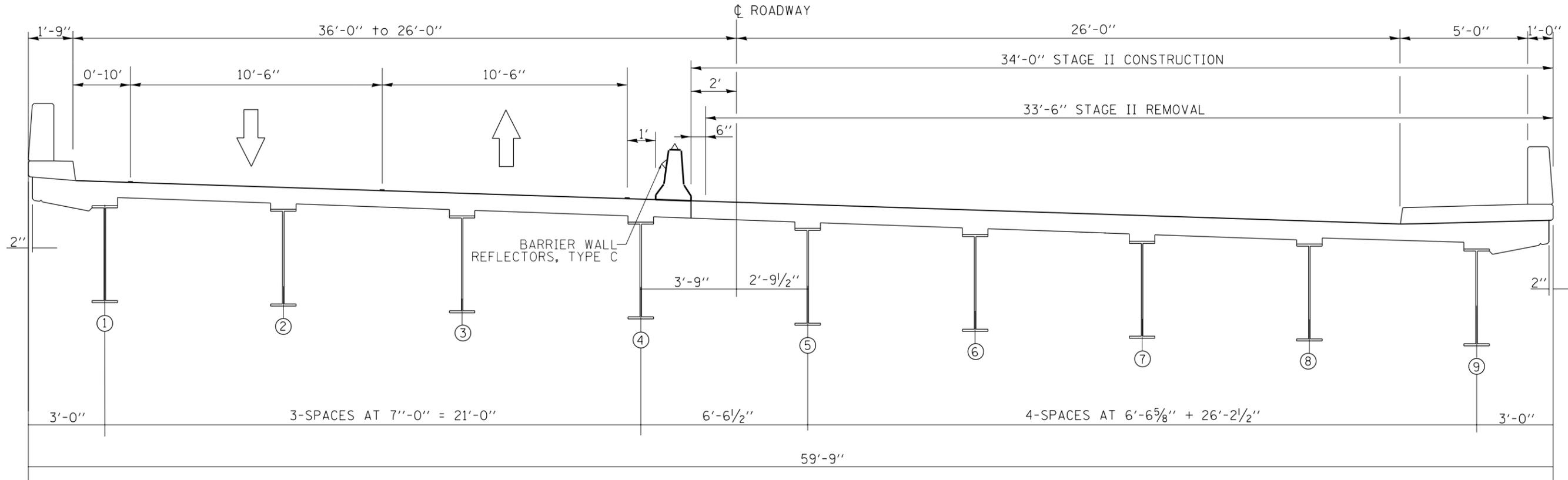
**WEST ABUTMENT REPAIR DETAILS  
 SN 016-0225**

SHEET NO. 30 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	28
CONTRACT NO. 62F37				
ILLINOIS		FED. AID PROJECT		



**STAGE I CROSS SECTION (LOOKING EAST)**



**STAGE II CROSS SECTION (LOOKING EAST)**

MODEL: Default  
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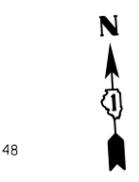
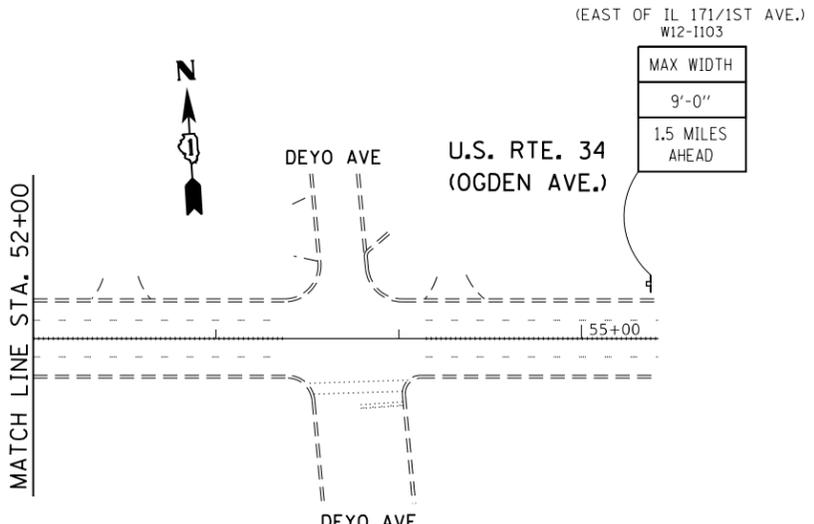
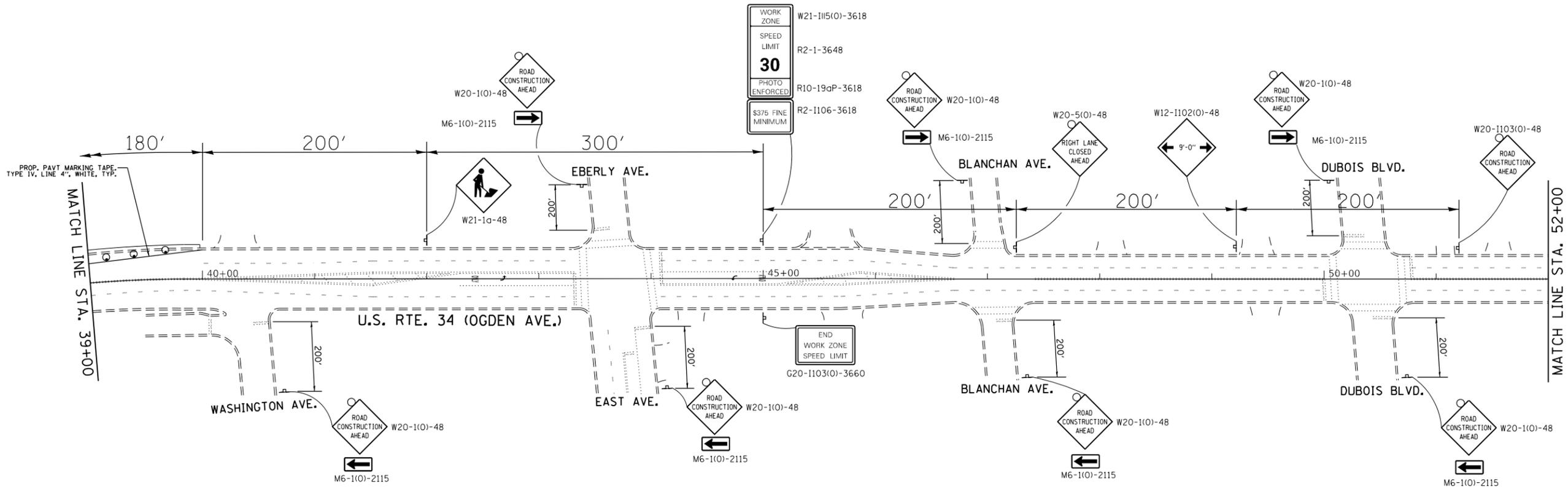
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/14/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION			
U.S. RTE. 34 (AT I.H.B. RAILROAD)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-023I	COOK	42	29
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				





**LEGEND**

-  TYPE III BARRICADE
-  DRUM / TYPE II BARRICADES PLACED @ 50' CENTERS IN TANGENTS, 20' CENTERS IN TAPERS AND 10' CENTERS IN CURVES WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER

MODEL: Default  
 FILE: \\nas0101\B&E\BID\NTEC\Illinois\gov\p\WIDOT\Documents\BIDD\Office\BID\ref\1\Projects\28717\CADD\B&E\Design\BID\28717-shr-pln-01.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/14/2018	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

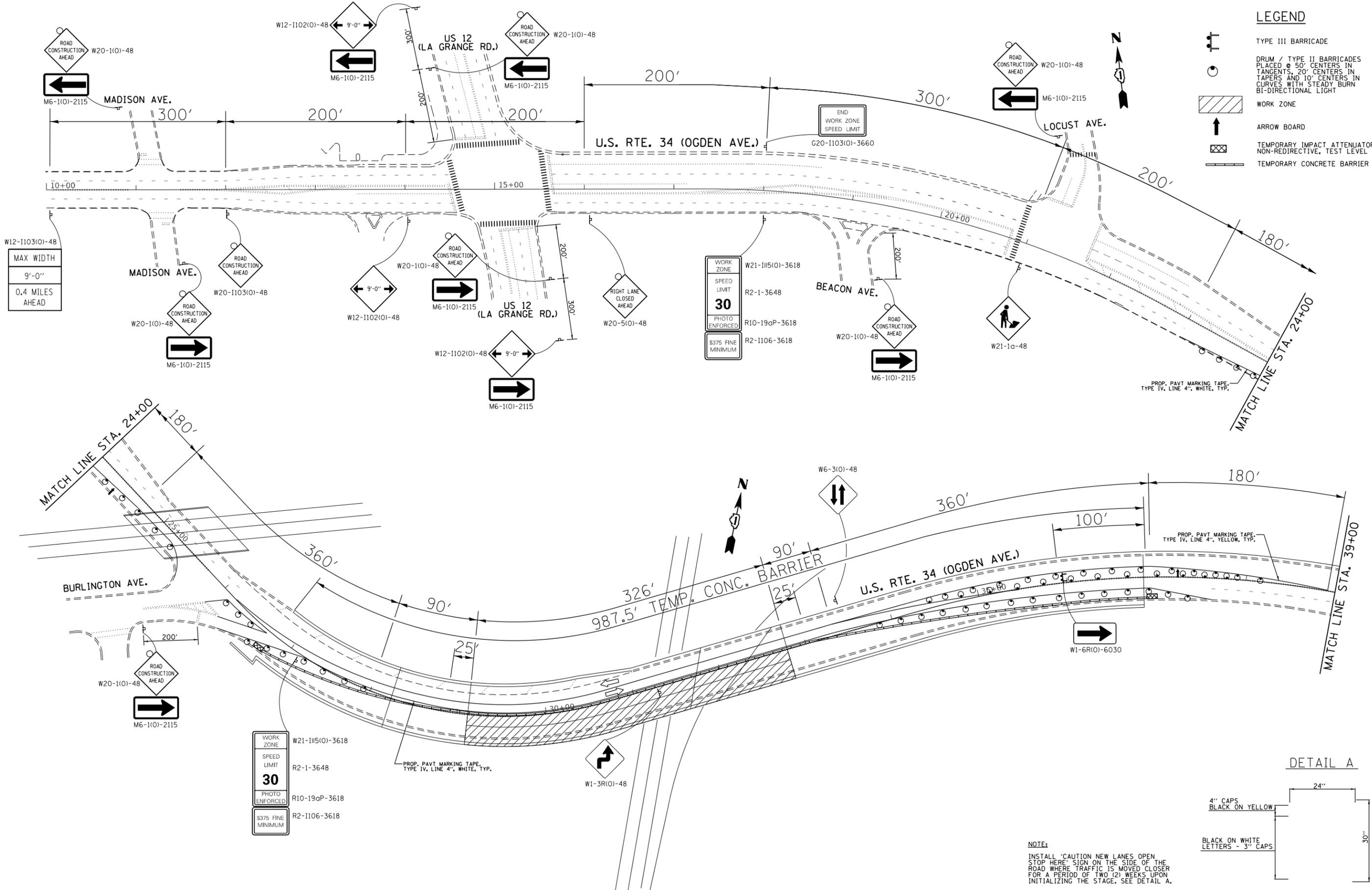
**STAGING PLAN (STAGE I)**  
**U.S. RTE. 34 (AT I.H.B. RAILROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-023I	COOK	42	31
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  TYPE III BARRICADE
-  DRUM / TYPE II BARRICADES PLACED @ 50' CENTERS IN TANGENTS, 20' CENTERS IN TAPERS AND 10' CENTERS IN CURVES WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER



MAX WIDTH  
9'-0"  
0.4 MILES AHEAD

WORK ZONE  
SPEED LIMIT  
**30**  
PHOTO ENFORCED  
S375 FINE MINIMUM

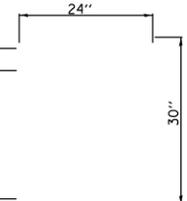
WORK ZONE  
SPEED LIMIT  
**30**  
PHOTO ENFORCED  
S375 FINE MINIMUM

4" CAPS  
BLACK ON YELLOW

BLACK ON WHITE  
LETTERS - 3" CAPS

**NOTE:**  
INSTALL 'CAUTION NEW LANES OPEN STOP HERE' SIGN ON THE SIDE OF THE ROAD WHERE TRAFFIC IS MOVED CLOSER FOR A PERIOD OF TWO (2) WEEKS UPON INITIALIZING THE STAGE. SEE DETAIL A.

**DETAIL A**



MODEL: Default  
FILE: \\hpc\p\ul\B&E\BID\ITC\Illinois\gov\p\ul\DOT\Documents\BIDD\Office\BID\ref\1\Projects\128717\CADD\B&E\Design\128717-shr-pln.dgn

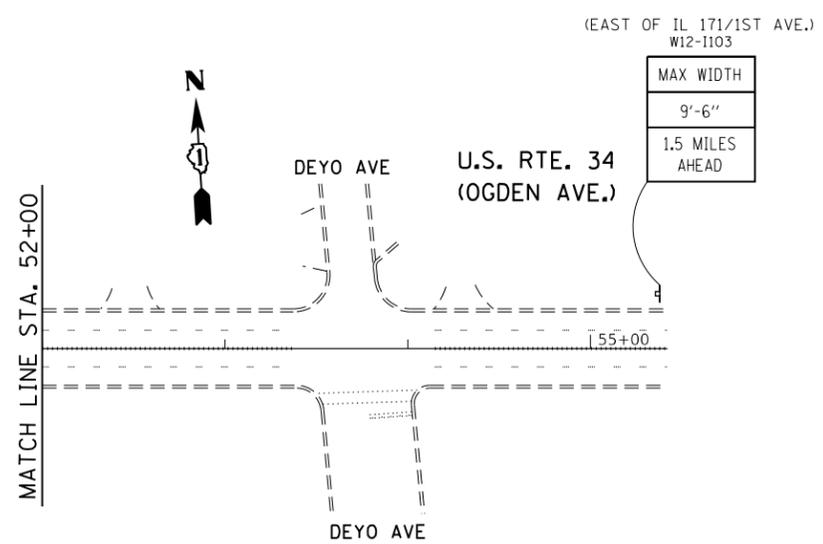
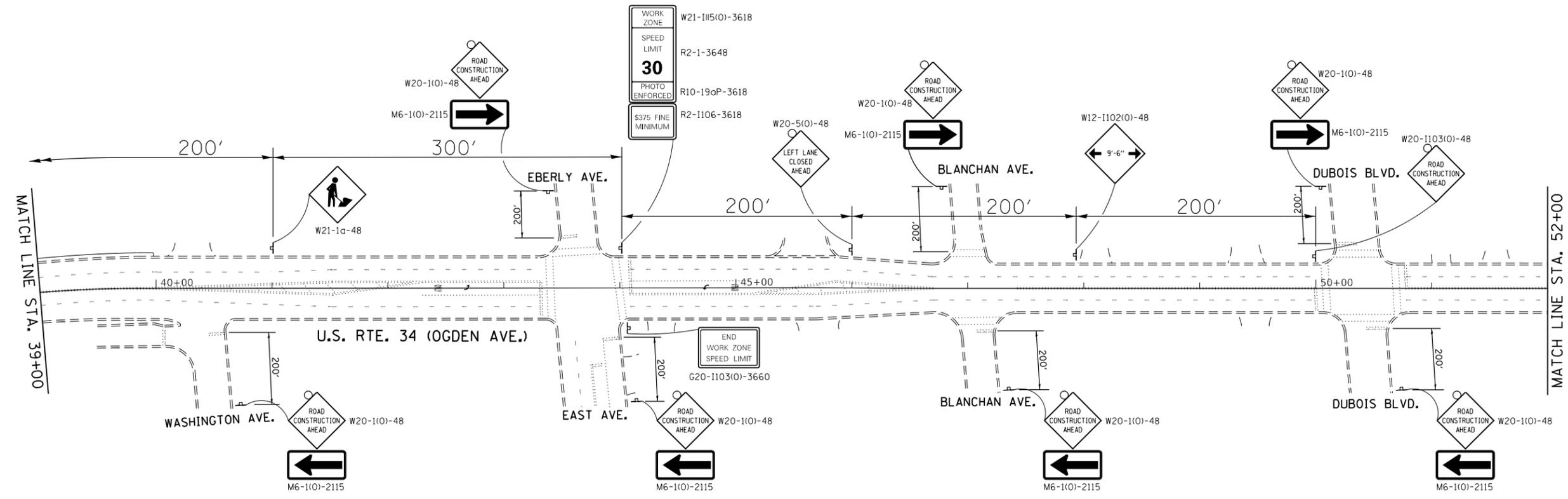
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/14/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN (STAGE II)  
U.S. RTE. 34 (AT I.H.B. RAILROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-023I	COOK	42	32
CONTRACT NO. 62F37				
ILLINOIS		FED. AID PROJECT		



**LEGEND**

-  TYPE III BARRICADE
-  DRUM / TYPE II BARRICADES PLACED @ 50' CENTERS IN TANGENTS, 20' CENTERS IN TAPERS AND 10' CENTERS IN CURVES WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  TEMPORARY IMPACT ATTENUATOR NON-REDIRECTIVE, TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER

MODEL: Default  
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USER NAME = hassann	DESIGNED -	REVISED -
DRAWN -	REVISED -	
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PLOT DATE = 12/14/2018	DATE -	REVISED -

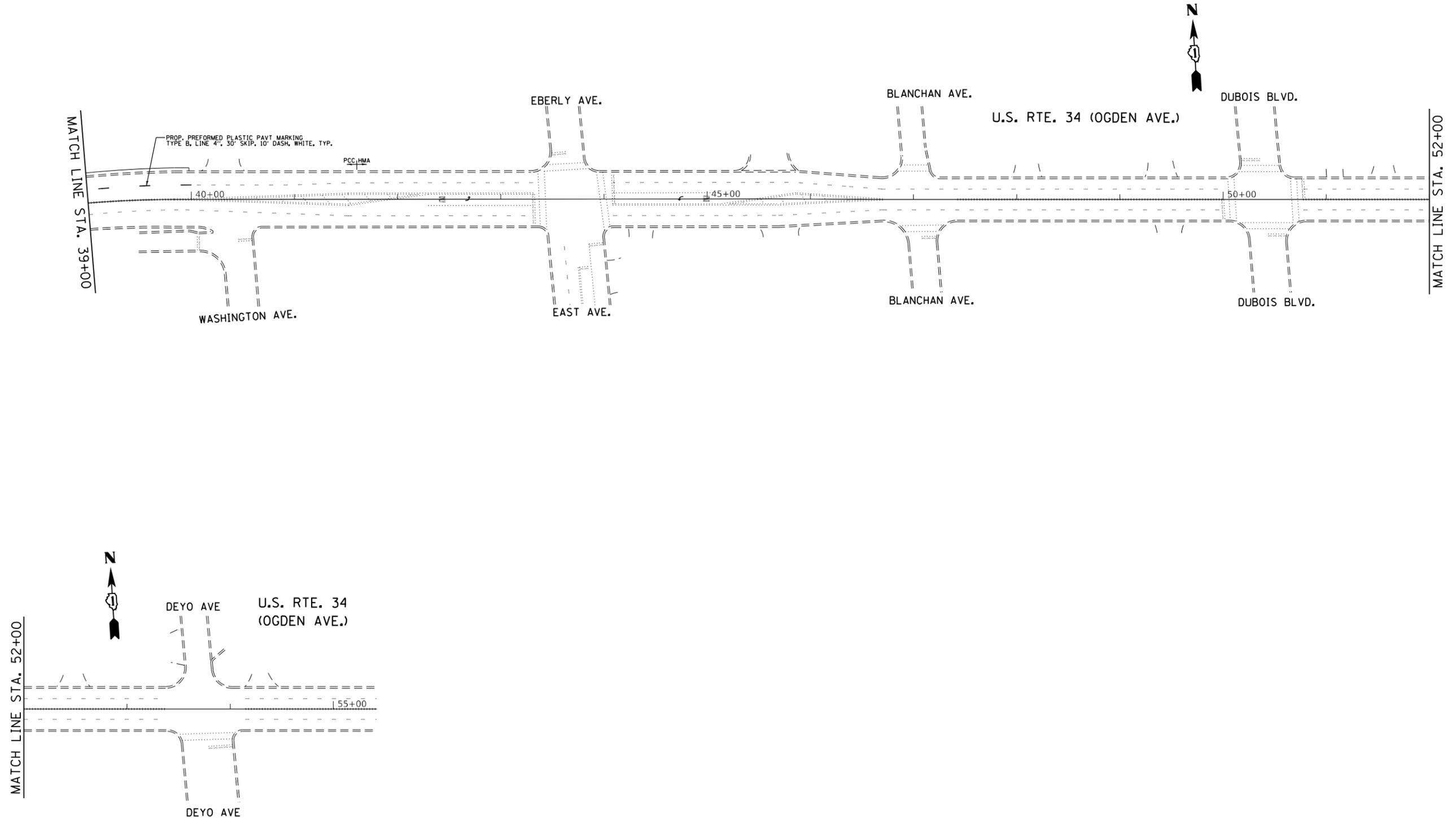
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN (STAGE II)**  
**U.S. RTE. 34 (AT I.H.B. RAILROAD)**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-023I	COOK	42	33
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				





MODEL: Default  
FILE NAME: p:\u0000\B&E\BID\NTEC\Illinois.gov\RW\DOT\Documents\DOT\_Offices\Director\Projects\ID128717\CADD\data\Design\ID128717-shr-plbns.dgn

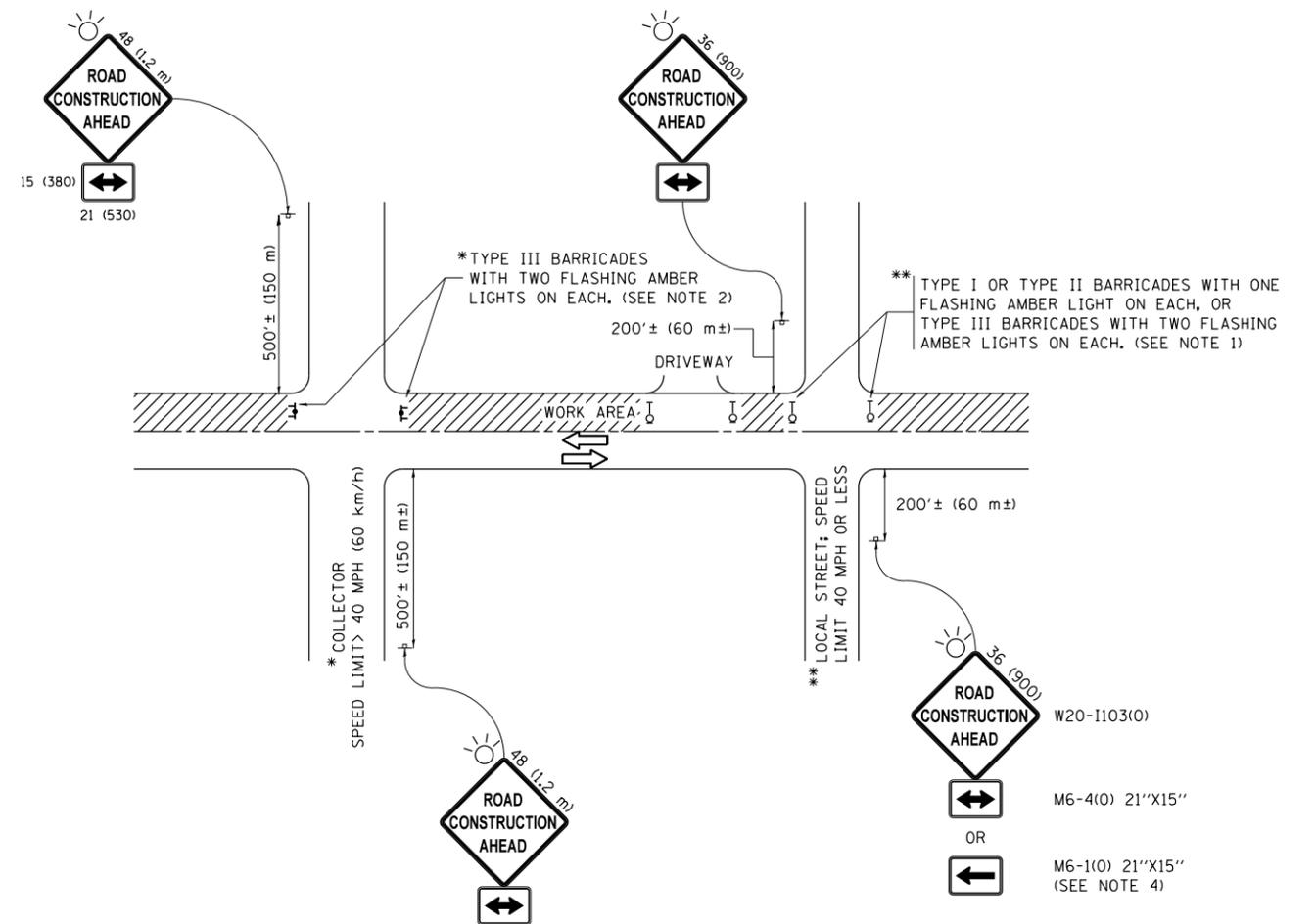
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/14/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FINAL PAVEMENT MARKING PLAN  
U.S. RTE. 34 (AT I.H.B. RAILROAD)**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-023I	COOK	42	35
CONTRACT NO. 62F37				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

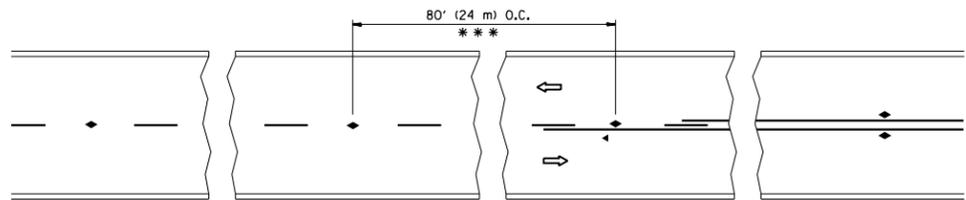
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pw:\11084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI287\Drawings\Design\DistStd.dgn			REVISED - T. RAMMACHER 01-06-00
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	PLOT DATE = 11/21/2017	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

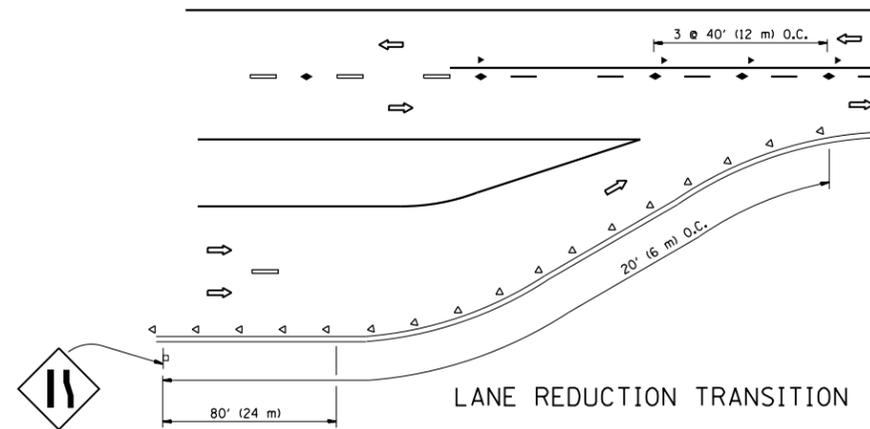
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			<b>CONTRACT NO. 62F37</b>	
ILLINOIS FED. AID PROJECT				

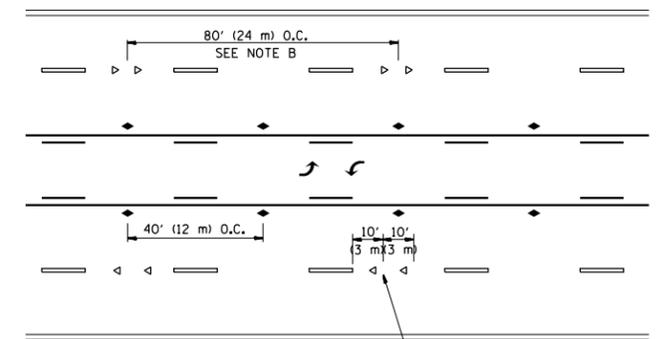


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

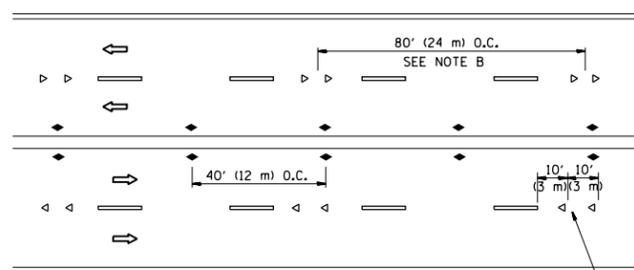
TWO-LANE/TWO-WAY



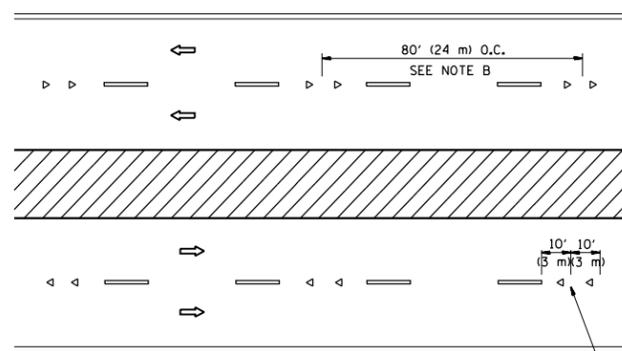
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

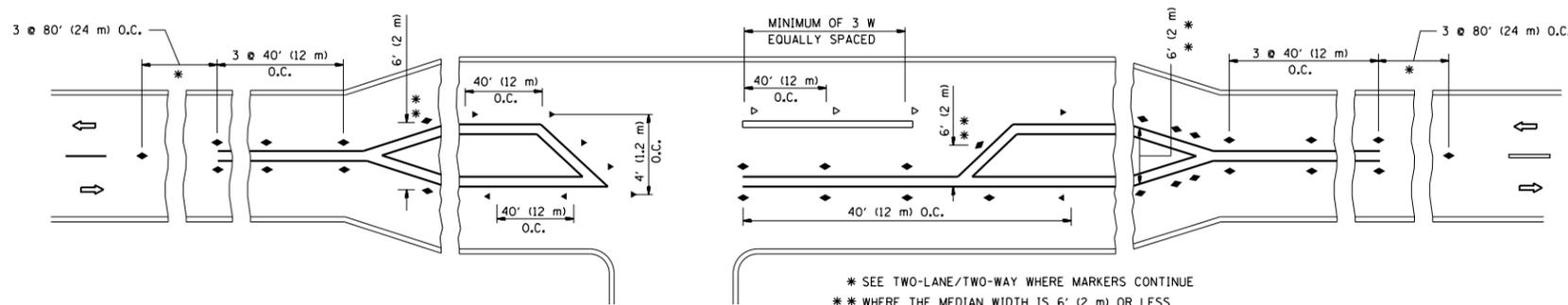
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

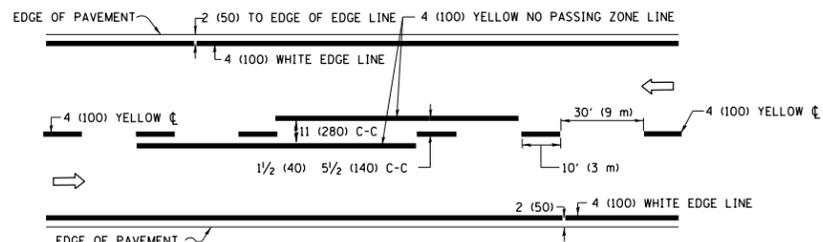
All dimensions are in inches (millimeters) unless otherwise shown.

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pw:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI287\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - T. RAMMACHER 03-12-99
		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

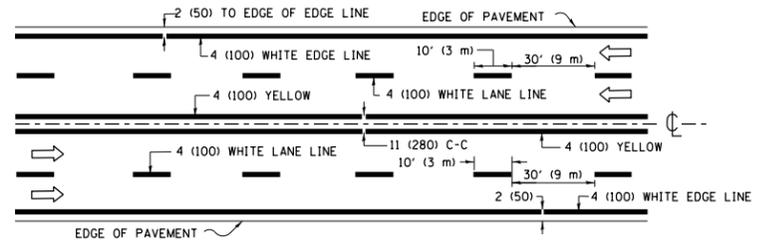
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

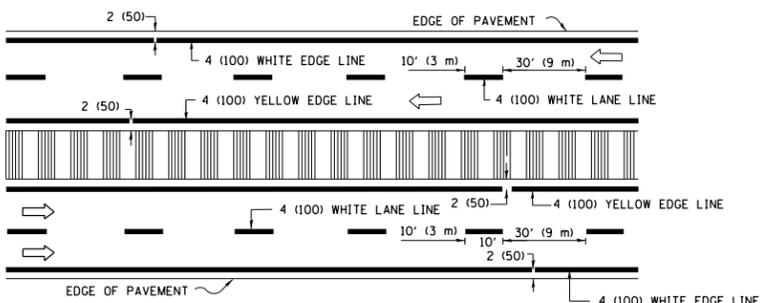
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	37
TC-11			CONTRACT NO. 62F37	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

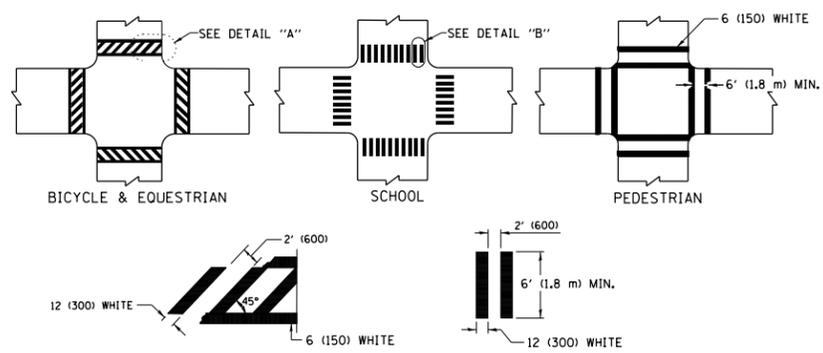


**MULTI-LANE UNDIVIDED**



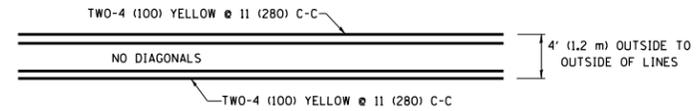
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

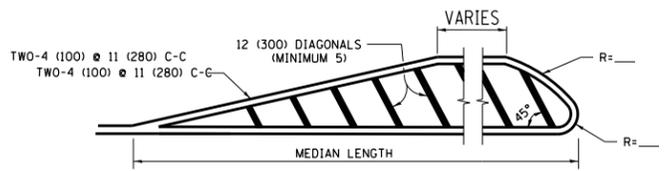


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

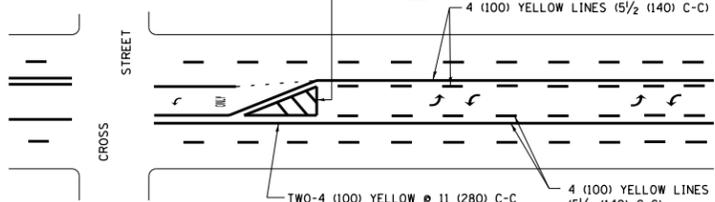


**4' (1.2 m) WIDE MEDIANS ONLY**



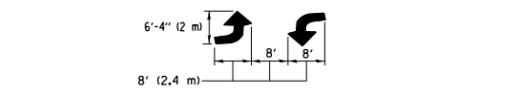
**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE  
TYPICAL PAINTED MEDIAN MARKING**

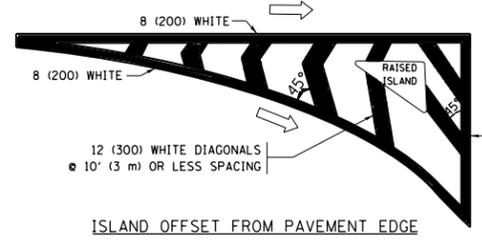
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



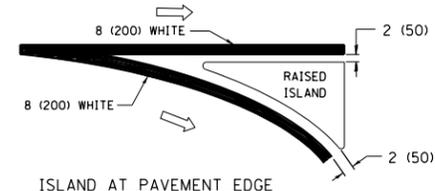
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

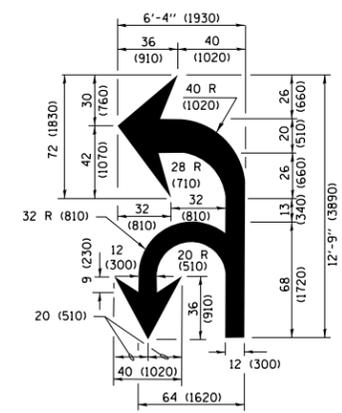
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



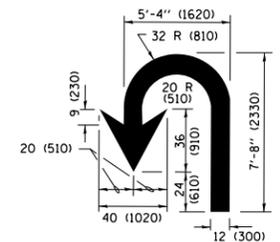
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE  
TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

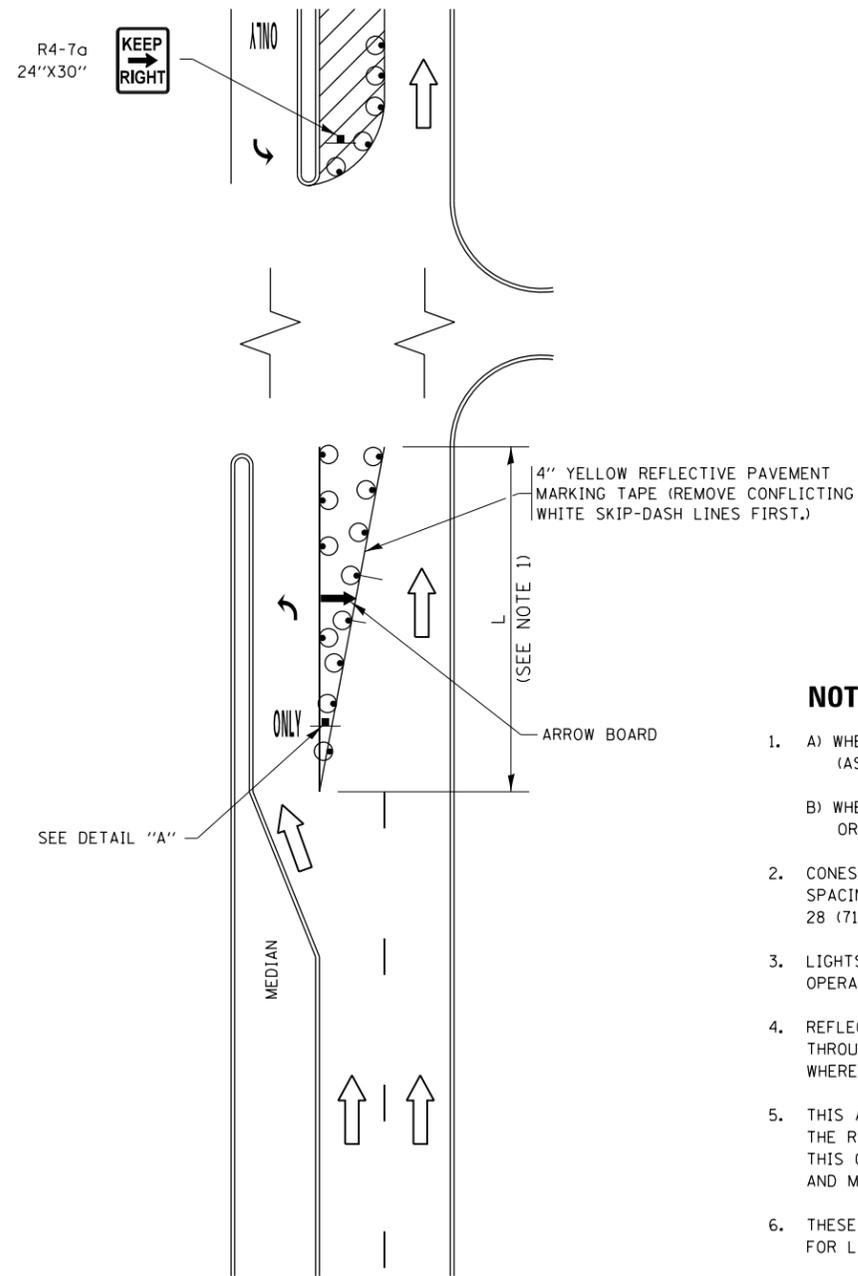
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Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 11/21/2017		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

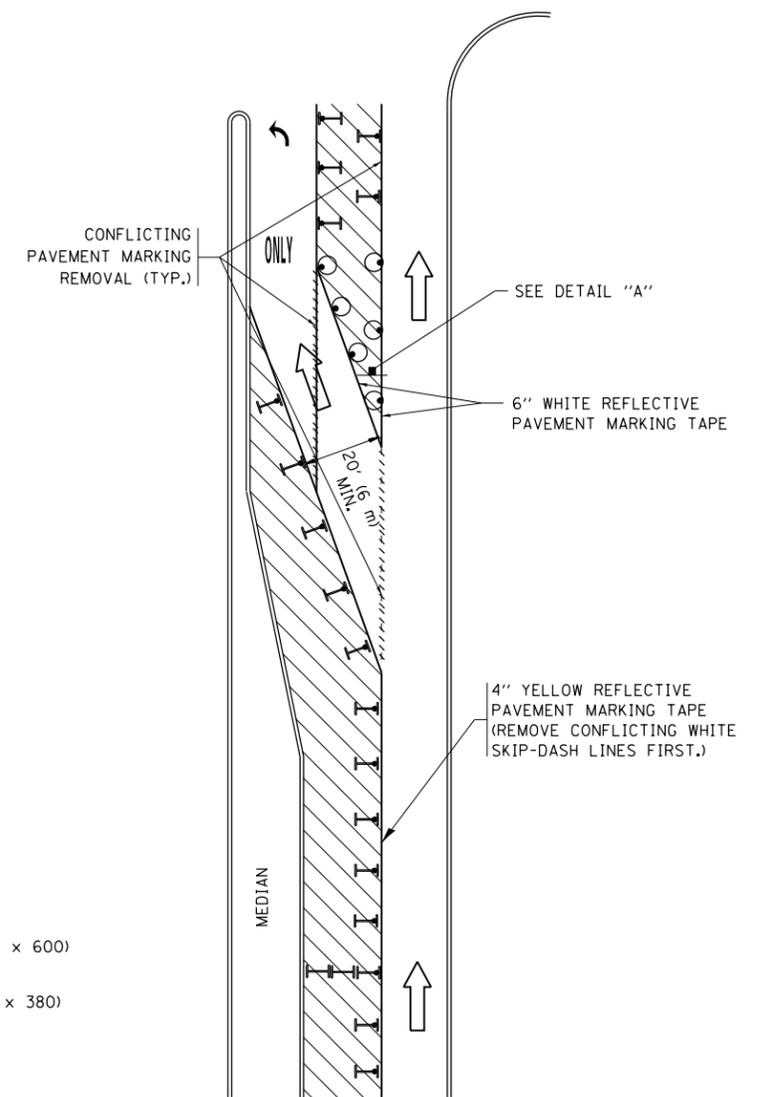
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-023I	COOK	42	38
<b>TC-13</b>		<b>CONTRACT NO. 62F37</b>		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

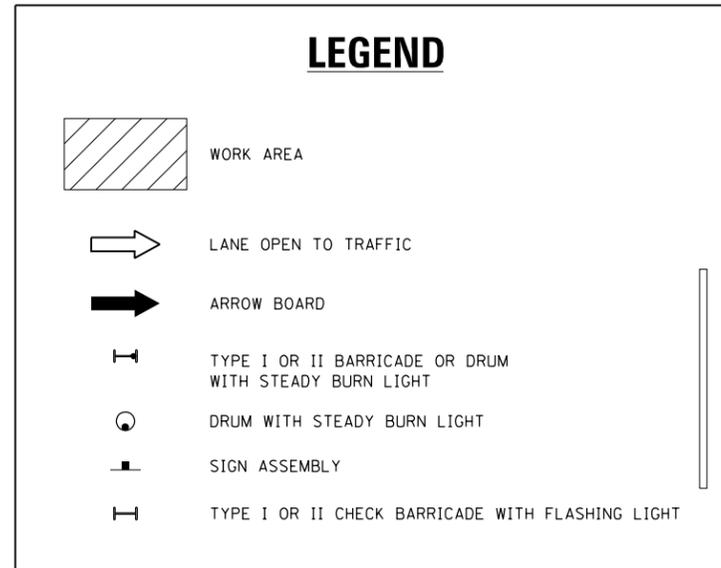


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

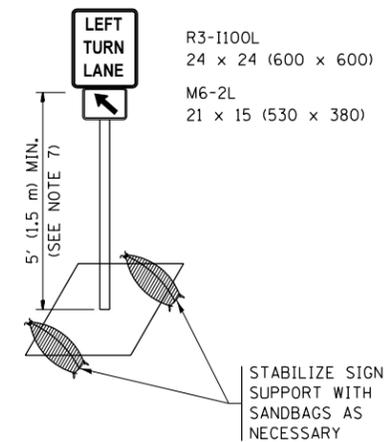


**FIGURE 2**



**NOTES:**

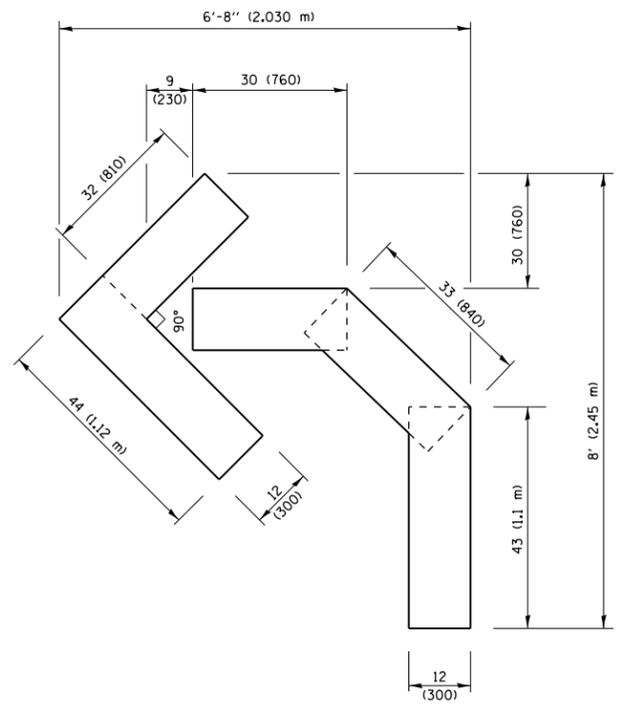
1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



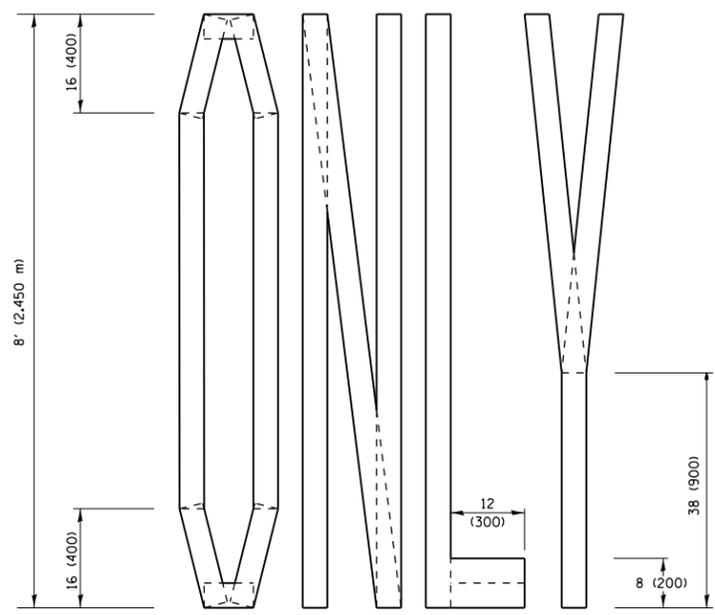
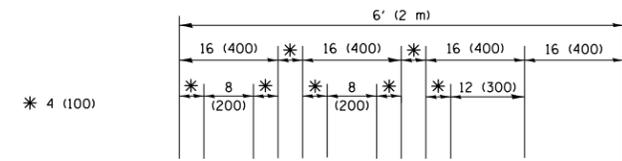
**DETAIL A**

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

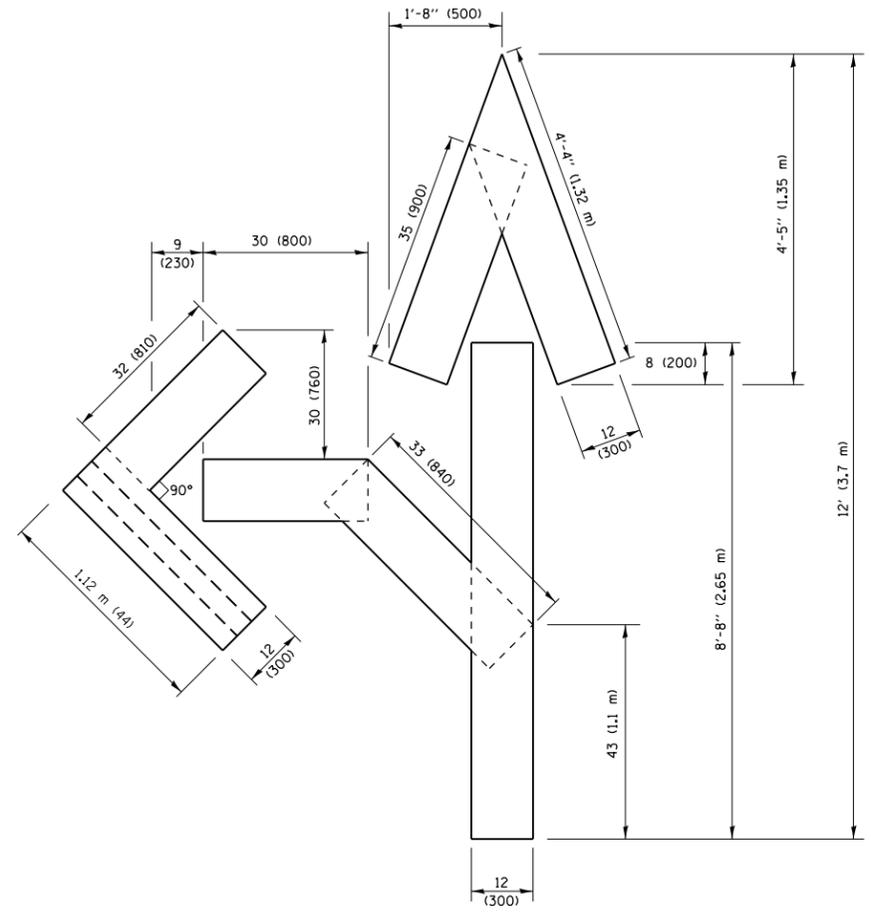
FILE NAME =	USER NAME = pyrzenowski	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI287\REVISED Design\HOUSEH	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 07-01-13			311	2017-0231	COOK	42	39
Default	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			<b>TC-14</b>		<b>CONTRACT NO. 62F37</b>		
	PLOT DATE = 11/21/2017	REVISED - T. RAMMACHER 01-06-00	REVISED -			SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

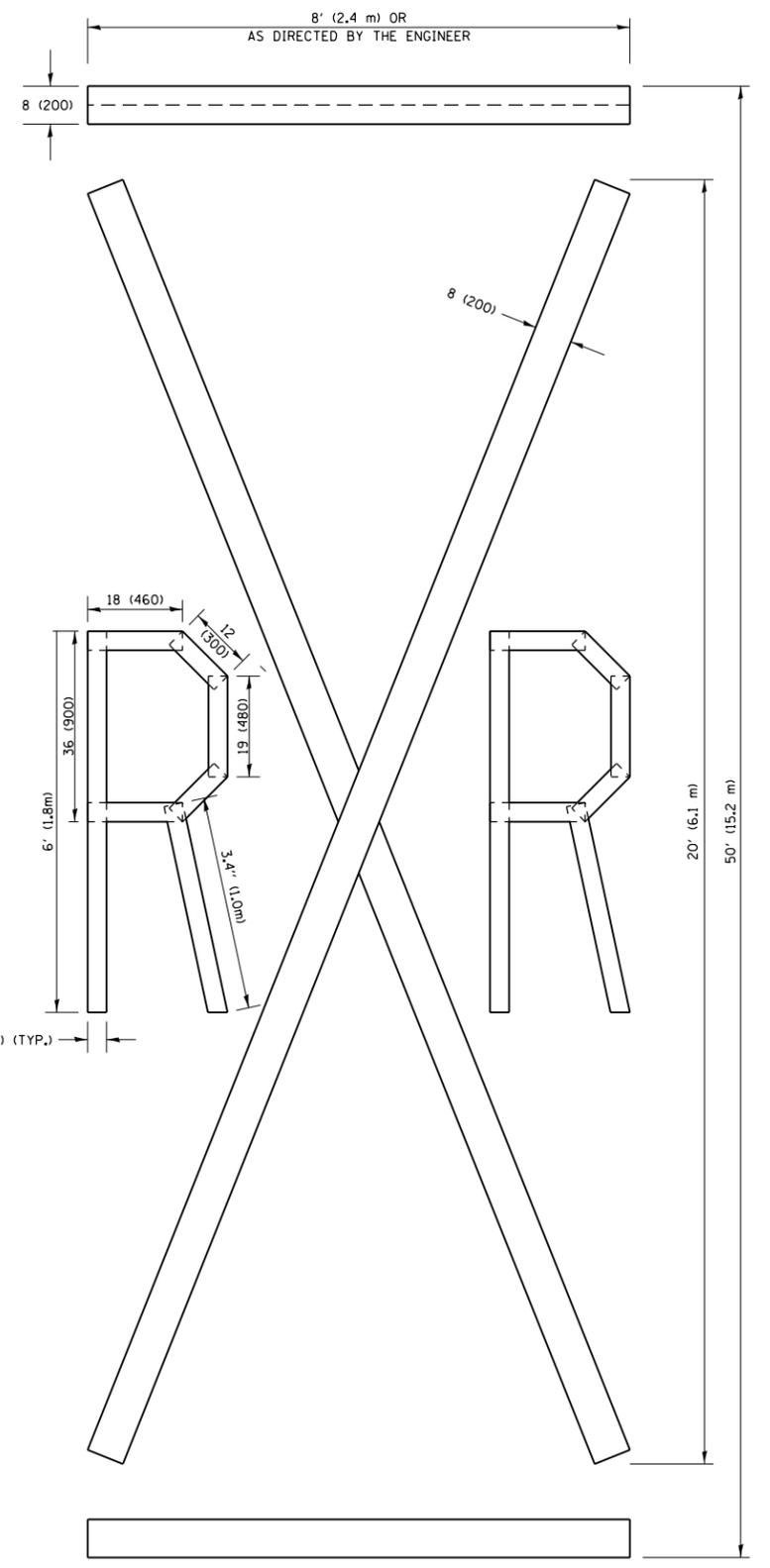


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED  
 IN LINEAR FEET OF 4" LINES TO MATCH THE  
 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS  
 THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

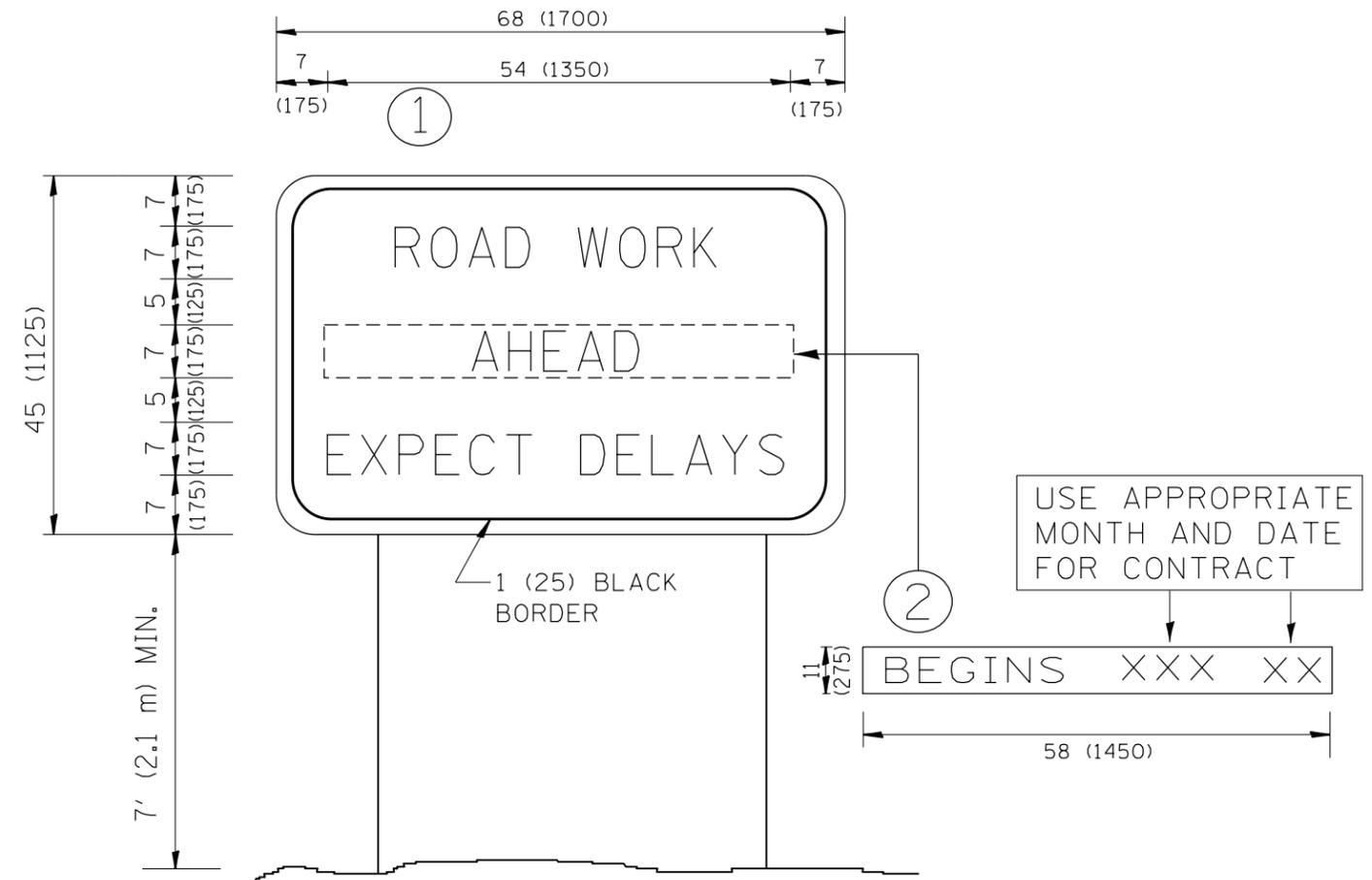
All dimensions are in inches (millimeters)  
 unless otherwise shown.

FILE NAME =	USER NAME = pyrzenowski	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
pw\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI287\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	40
<b>TC-16</b>		<b>CONTRACT NO. 62F37</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

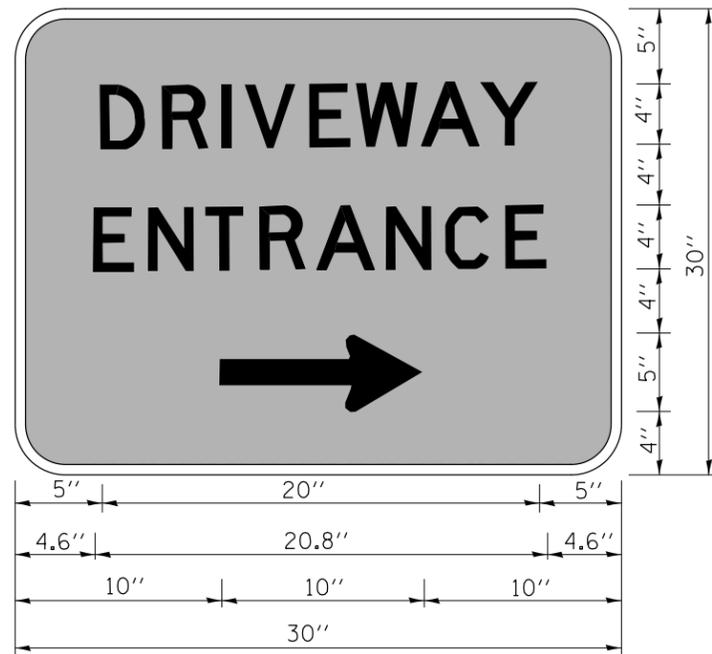


**NOTES:**

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

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

FILE NAME =	USER NAME = pyrzenowski	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI287\Drawings\Design\DistStd.dgn		REVISOR -	REVISED - R. MIRS 12-11-97			311	2017-0231	COOK	42	41
		CHECKED -	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>		<b>CONTRACT NO. 62F37</b>		
		DATE -	REVISED - C. JUCIUS 01-31-07			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = pyzanosk1rb	DESIGNED -	REVISED - C. JUCIUS 02-15-07
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI287\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -
	PLOT DATE = 11/21/2017		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2017-0231	COOK	42	42
<b>TC-26</b>		<b>CONTRACT NO. 62F37</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				