

F.A.R. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2020	2019-159-BR	COOK	21	1
ILLINOIS			CONTRACT NO. 62K31	

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAU ROUTE 2857: ASHLAND AVE. AT CAL SAG CHANNEL SECTION: 2019-159-BR BRIDGE JOINT REPAIR AND BRIDGE DECK OVERLAY COOK COUNTY

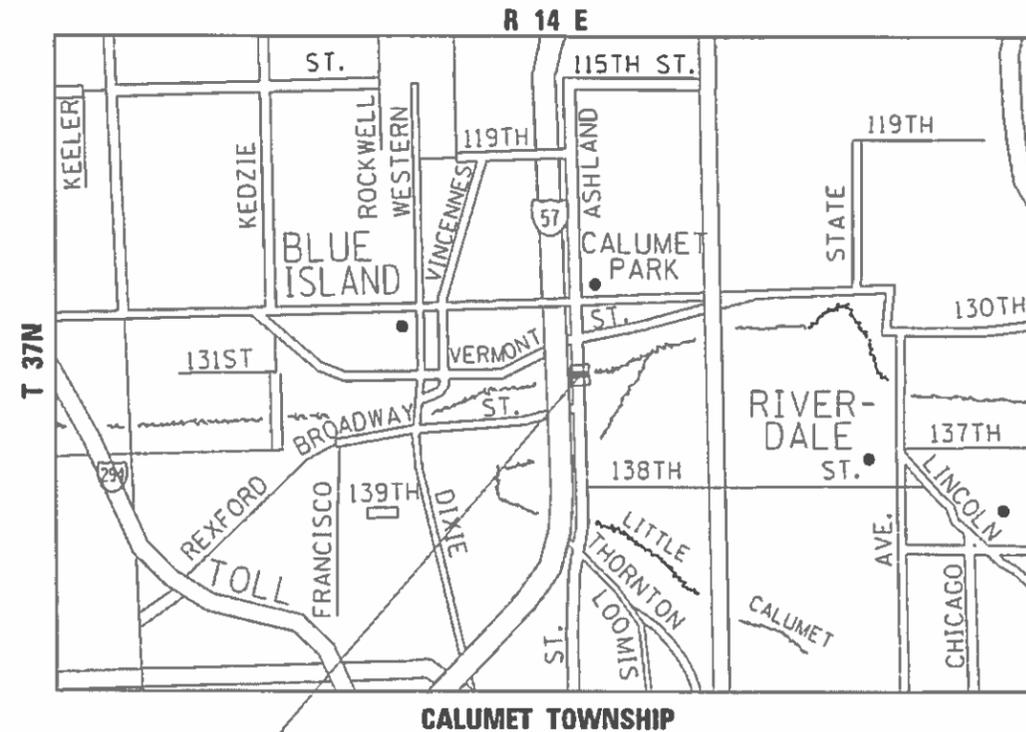
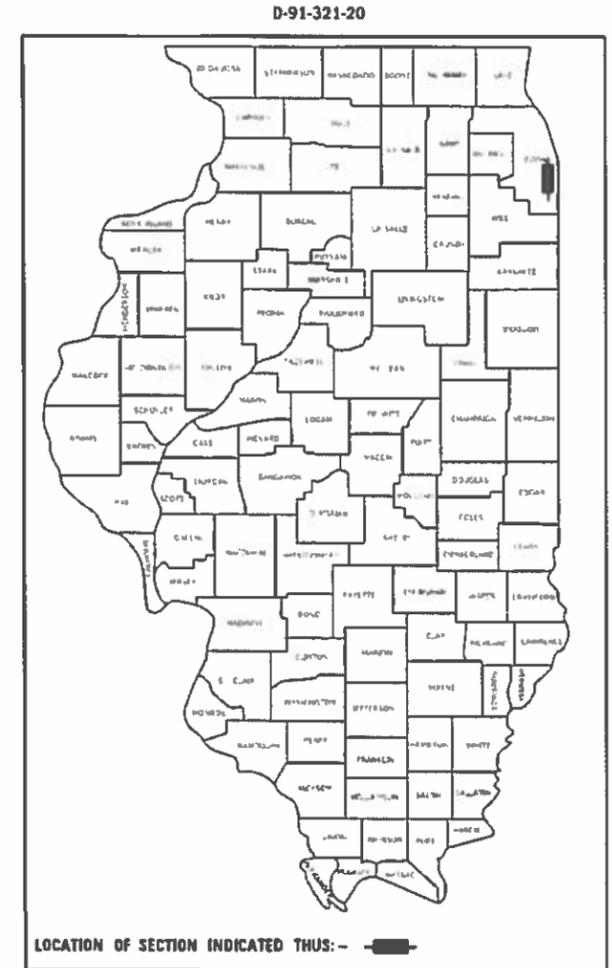
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FOR INDEX OF SHEETS, SEE SHEET NO.

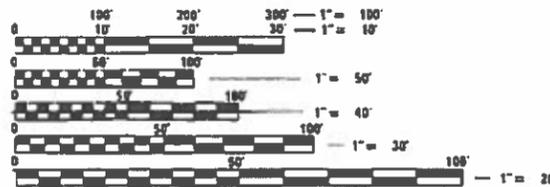
THIS PROJECT IS LOCATED IN THE VILLAGE OF CALUMET PARK AND THE CITY OF BLUE ISLAND

TRAFFIC DATA

2018 ADT: 18500 POSTED SPEED: 40 MPH



PROJECT LOCATION S.N. 016-0294



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 EXCAVATORS 1-800-892-0123 OR 811

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

CONTRACT NO. 62K31

GROSS LENGTH = 378.50 FT. = 0.072 MILE NET LENGTH = 378.50 FT. = 0.072 MILE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBMITTED ~~DECEMBER 17, 2019~~ JAN 31, 2020

[Signature] REGIONAL ENGINEER

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
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- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

GENERAL NOTES

- 1. 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 UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF CALUMET PARK AND THE CITY OF BLUE ISLAND
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 5. 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.
- 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV FOR ARTERIALS AND (847) 705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 9. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.
- 10. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 11. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

REV. - MS

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	DRAWN -	REVISED -			2857	2019-159-BR	COOK	21	2
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62K31				
PLOT DATE = 12/20/2019	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
			SCALE:	SHEET OF SHEETS	STA.	TO STA.			

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0013 100% STATE				
52000020	PREFORMED JOINT SEAL 1 3/4"	FOOT	126	126				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	80	80				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2300	2300				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2968	2968				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	50	50				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	28	28				
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1680	1680				
X0327408	REINSTALL RUBBER FENDER SYSTEM	L SUM	1	1				
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	800	800				
52000000	PREFORMED JOINT SEAL, 1/2"	FOOT	63	63				
52000005	PREFORMED JOINT SEAL, 1"	FOOT	126	126				
52000037	PREFORMED JOINT SEAL 3"	FOOT	63	63				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0013 100% STATE				
X5870015	BRIDGE DECK CONCRETE SEALER	SO FT	5641	5641				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	2300	2300				
Z0001905	STRUCTURAL STEEL REPAIR	POUND	12,820	12,820				
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SO YD	1850	1850				
Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SO YD	1850	1850				
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	160	160				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8				
Z0041895	POLYMER CONCRETE	CU FT	7.0	7.0				
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4	4				
X0327408	REINSTALL RUBBER FENDER SYSTEM	L SUM	1	1				

REV. - MS

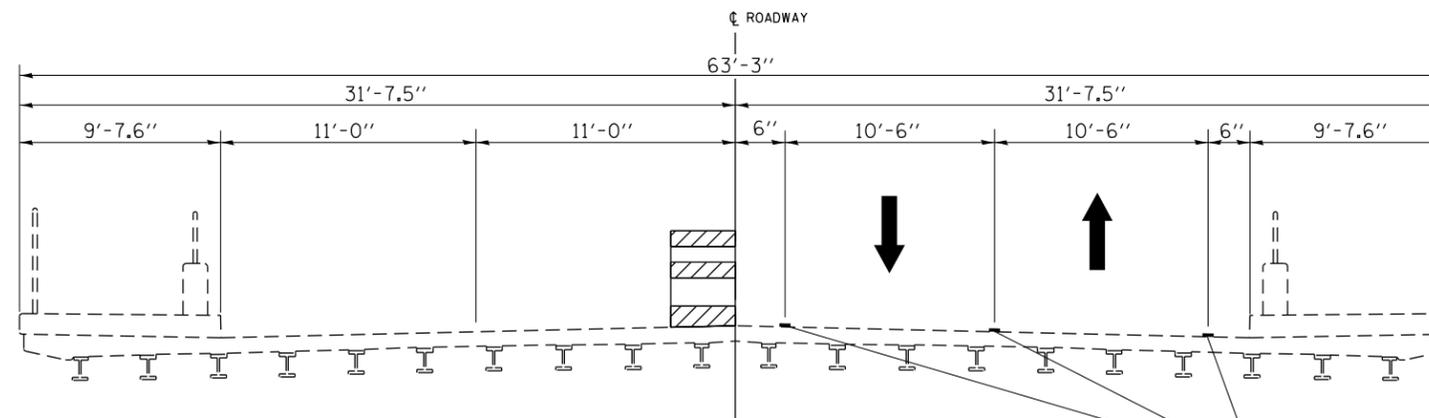
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

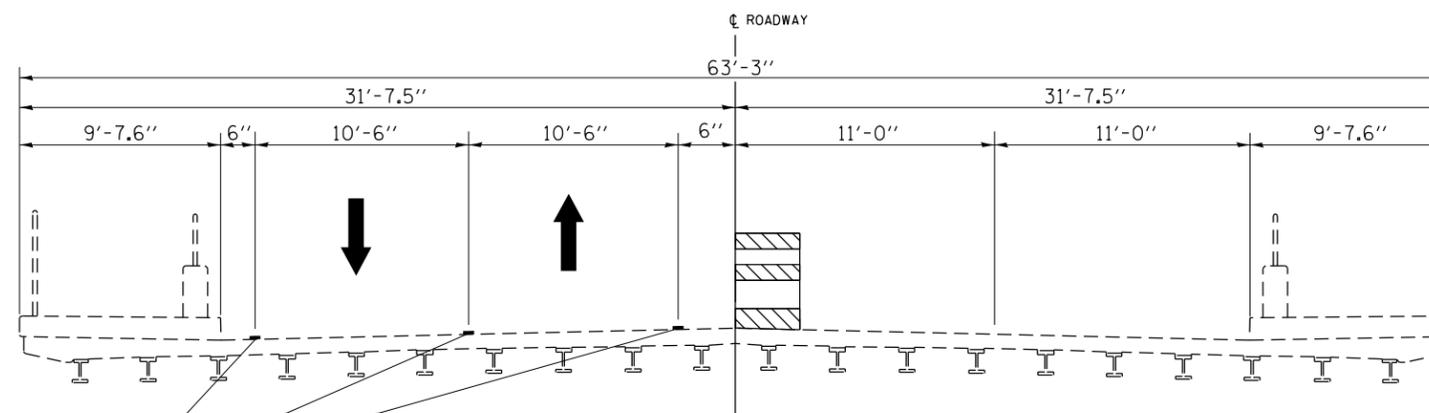
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			CONTRACT NO. 62K31	
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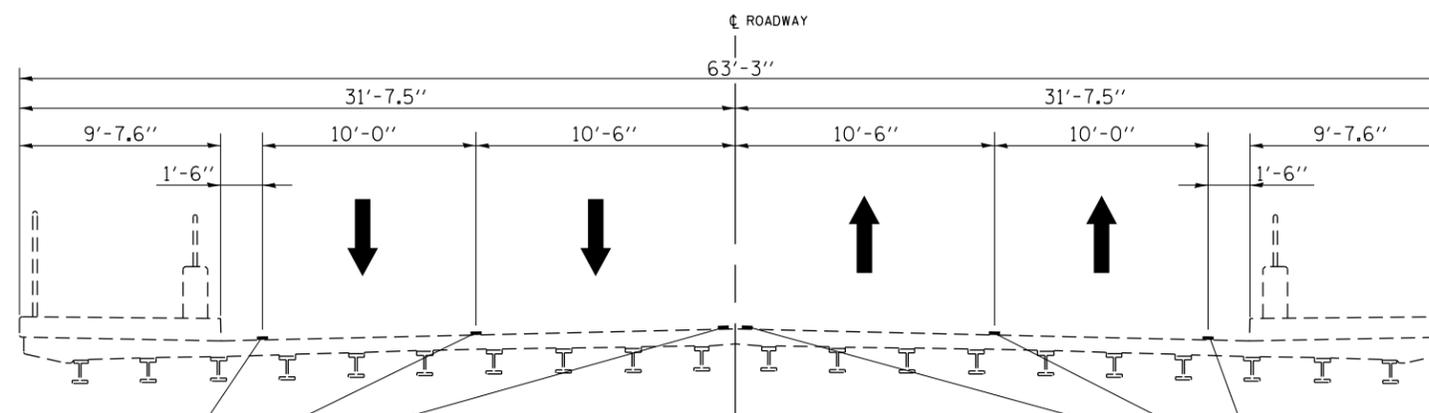
STAGE I CROSS SECTION
(LOOKING NORTH)

PAVEMENT MARKINGS TAPE TYPE IV



STAGE II CROSS SECTION
(LOOKING NORTH)

PAVEMENT MARKINGS TAPE TYPE IV



FINAL CROSS SECTION
(LOOKING NORTH)

MODIFIED URETHANE PAVT. MARKING

MODIFIED URETHANE PAVT. MARKING

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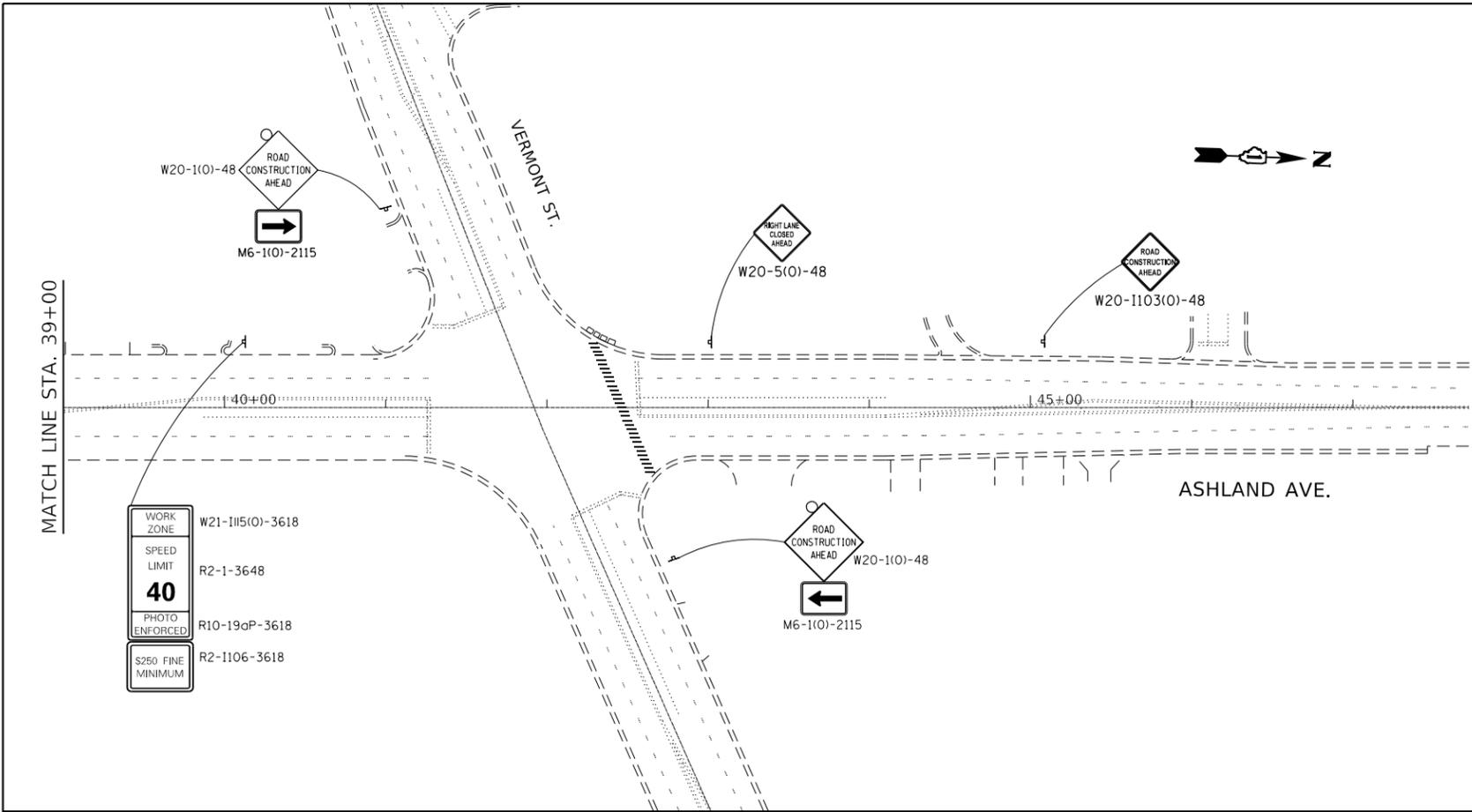
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING CROSS SECTIONS
ASHLAND AVE. AT CAL SAG CHANNEL

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	4
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



- LEGEND**
-  ARROW BOARD
 -  TYPE III BARRICADE
 -  BARRICADE OR DRUM WITH FLASHING LIGHT
 -  WORK ZONE
 -  DRUM WITH REFLECTIVE STRIPS

WORK ZONE	W21-115(0)-3618
SPEED LIMIT	R2-1-3648
40	
PHOTO ENFORCED	R10-19aP-3618
S250 FINE MINIMUM	R2-1106-3618

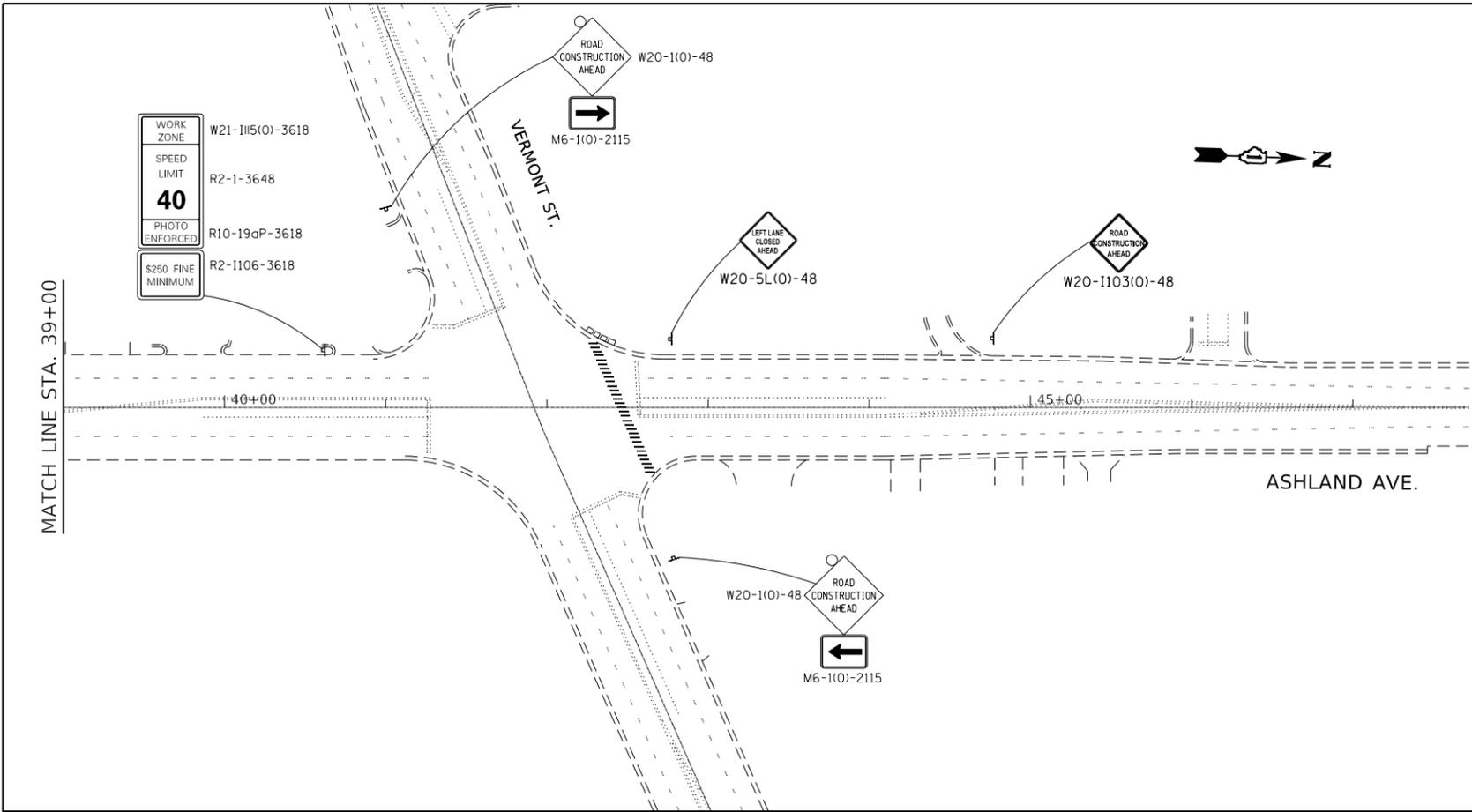
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PLOT DATE = 12/20/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC (STAGE 1)	
ASHLAND AVENUE AT CAL SAG CHANNEL	
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	6
CONTRACT NO. 62K31			ILLINOIS FED. AID PROJECT	



LEGEND

	ARROW BOARD
	TYPE III BARRICADE
	BARRICADE OR DRUM WITH FLASHING LIGHT
	WORK ZONE
	DRUM WITH REFLECTIVE STRIPS

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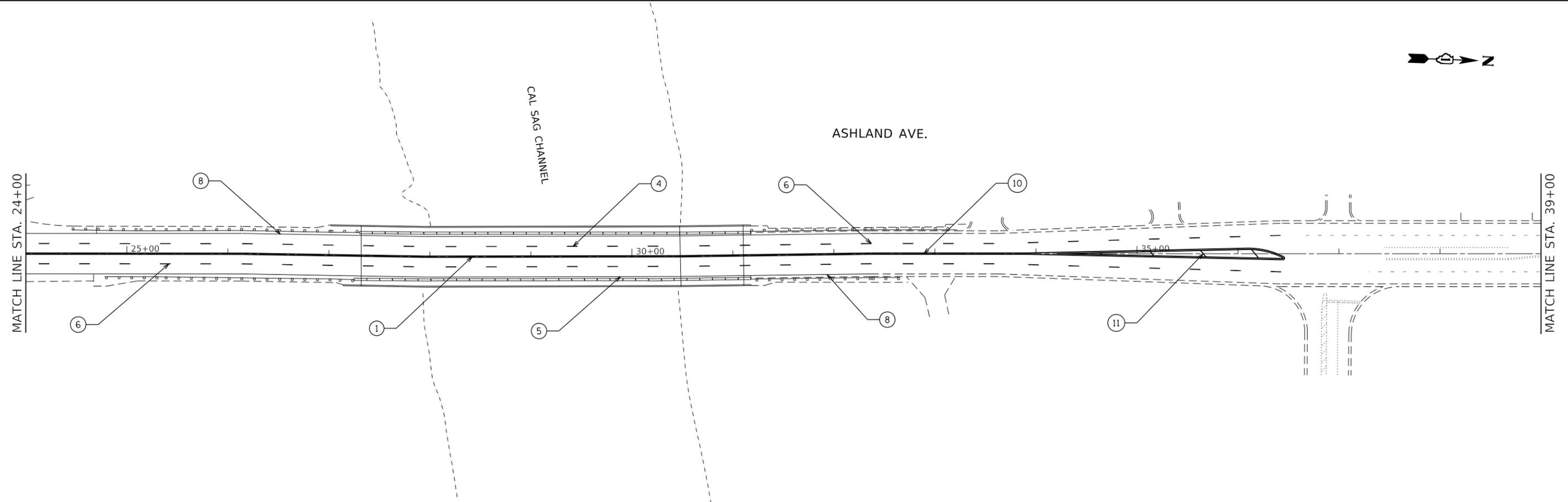
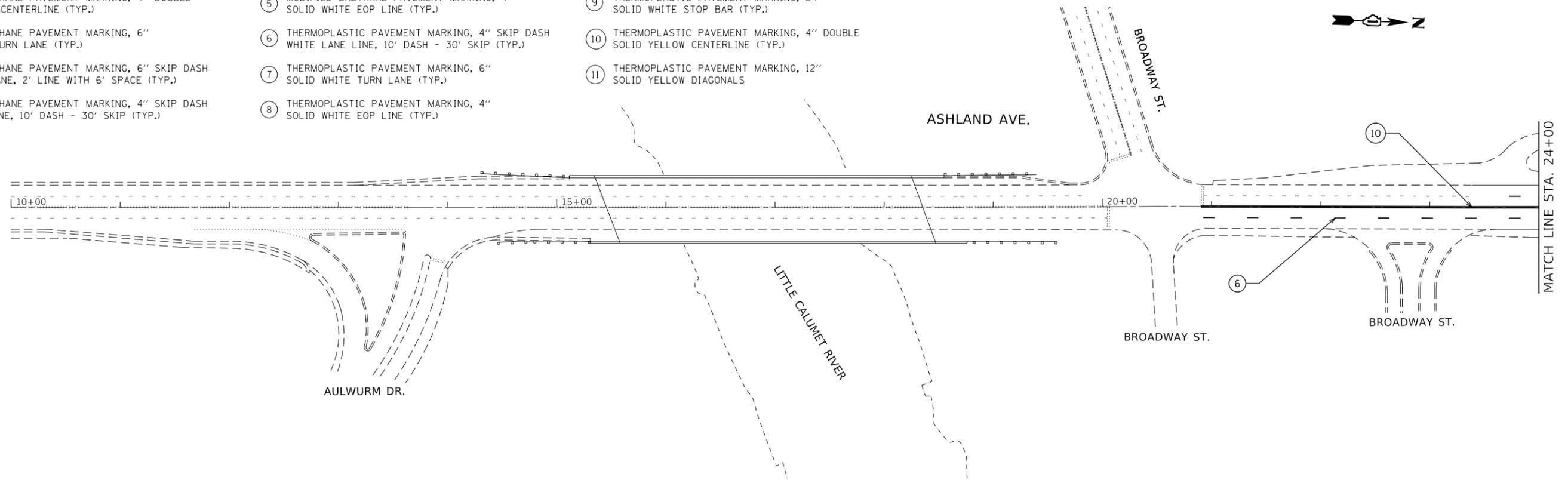
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC (STAGE 2)			
ASHLAND AVENUE AT CAL SAG CHANNEL			
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS	STA. _____	TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	8
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE (TYP.)
- ② MODIFIED URETHANE PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.)
- ③ MODIFIED URETHANE PAVEMENT MARKING, 6" SKIP DASH WHITE TURN LANE, 2' LINE WITH 6' SPACE (TYP.)
- ④ MODIFIED URETHANE PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING, 4" SOLID WHITE EOP LINE (TYP.)
- ⑥ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EOP LINE (TYP.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONALS



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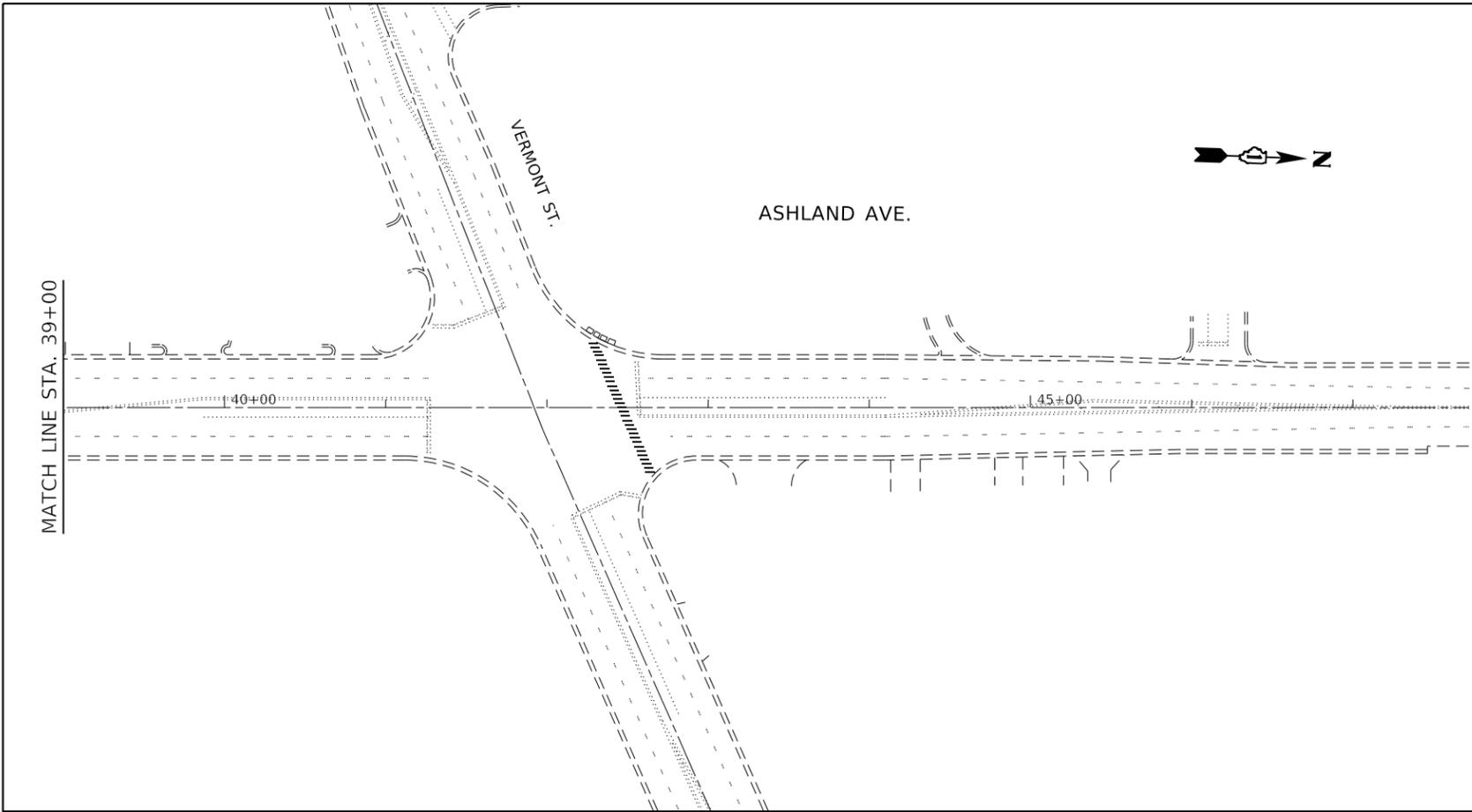
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PLOT DATE = 12/20/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING PLAN
ASHLAND AVENUE AT CAL SAG CHANNEL**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	9
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE (TYP.)
- ② MODIFIED URETHANE PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.)
- ③ MODIFIED URETHANE PAVEMENT MARKING, 6" SKIP DASH WHITE TURN LANE, 2' LINE WITH 6' SPACE (TYP.)
- ④ MODIFIED URETHANE PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)
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- ⑨ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONALS

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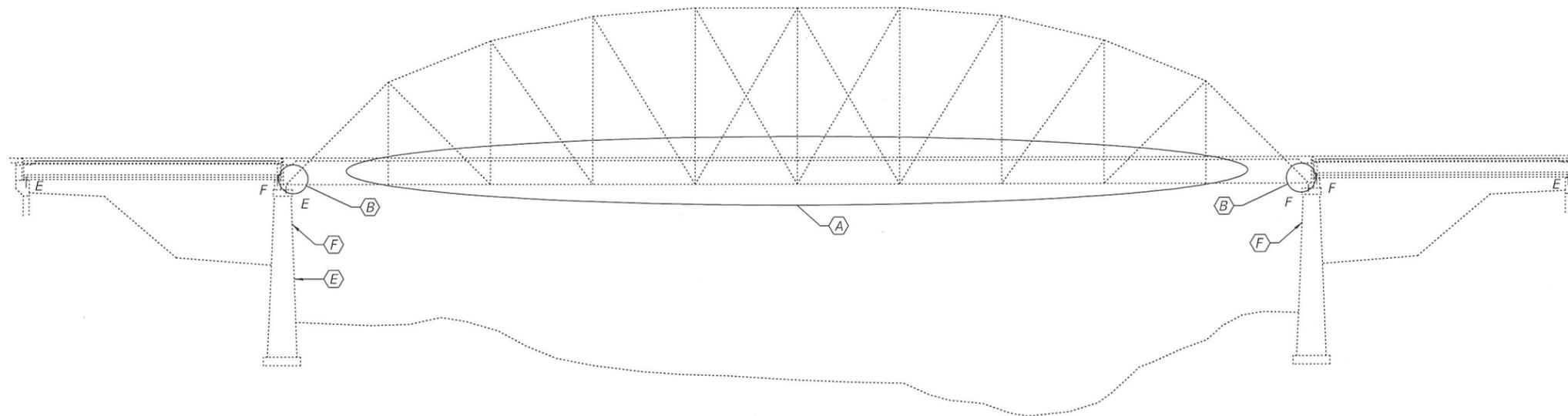
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

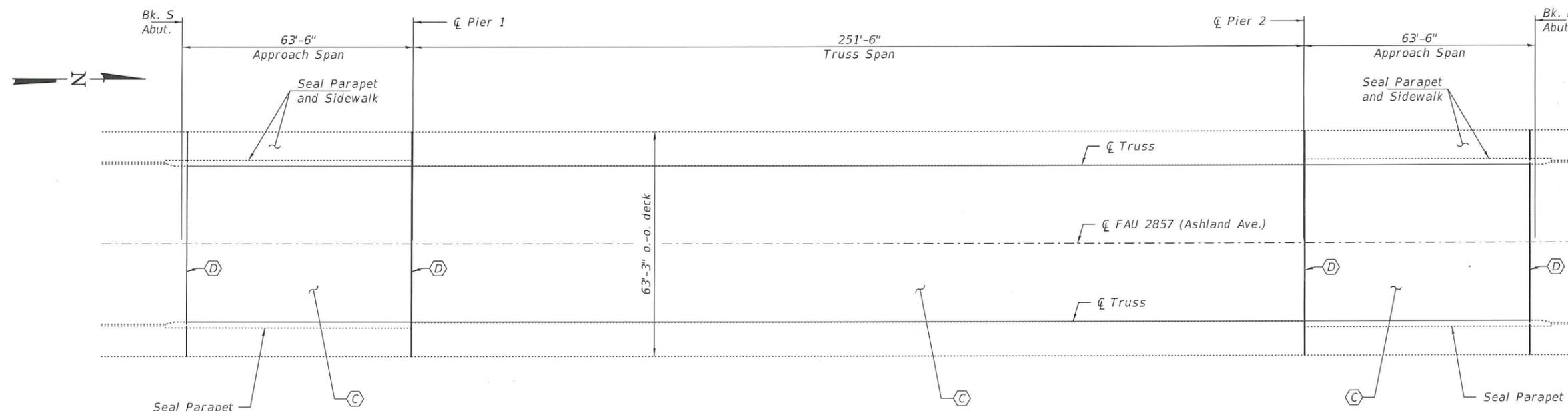
**PROPOSED PAVEMENT MARKING PLAN
ASHLAND AVENUE AT CAL SAG CHANNEL**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	10
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



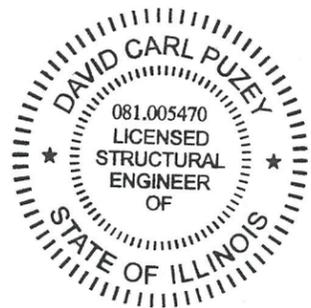
ELEVATION



PLAN

- (A) - Diagonal Bracing Repairs. See sheets 5 thru 7 of 12 for locations and details.
- (B) - End Gusset Plate Repairs. See sheets 8 thru 11 of 12 for details.
- (C) - $\frac{3}{8}$ " Deck Scarification and Thin Polymer Overlay
- (D) - Bridge Joint Replacement. See sheet 4 of 12 for details.
- (E) - Reinstall Fender. See sheet 12 of 12 for details.
- (F) - Substructure Repair. See sheet 12 of 12 for locations.

Note:
See sheet 2 of 12 for General Notes
and Total Bill of Material.



EXPIRES 11-30-2020

DESIGNED - Josue D. Ortiz-Varela	EXAMINED - <i>Timothy A. ...</i>	DATE - MARCH 20, 2020
CHECKED - Victor H. Veliz	PASSED - <i>David Puzey</i>	REVISED -
DRAWN - daburdell	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - JOV VHV		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
ASHLAND AVENUE OVER CAL SAG CHANNEL
SN 016-0294

SHEET NO. 1 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	11
CONTRACT NO. 62K31			ILLINOIS FED. AID PROJECT	

STRUCTURAL STEEL REPAIR NOTES

1. The retrofit and fill plates shown on sheets 6 thru 11 of 12 are based on the field measurements of one repair location. It is the nature of riveted steel of this vintage to have routine variations. Similarly, previous repairs may have modified original conditions such as the floor beam connection angles at L0 (South), which will require changes to the dimensions and or fill plate thicknesses. Retrofit plates may require minor field adjustment to fit actual as-built conditions. The Contractor shall field verify existing dimensions, rivet/bolt locations, and details affecting the proposed work and Notify Engineer of any discrepancies or conflicts with the dimensions shown on sheets 6 thru 11 of 12. Necessary approved adjustments shall be made prior to ordering of materials. Such variations or adjustments shall not be cause for additional compensation and cost shall be included in STRUCTURAL STEEL REPAIR.
2. Cost of rivet removal, trimming, reaming of bolt holes, and installation of all plates and bolts necessary to complete the work as shown on the plans shall be included in STRUCTURAL STEEL REPAIR.
3. Fasteners shall be mechanically galvanized, high strength AASHTO F 3125 Grade A490 (ASTM A 490) bolts with threads excluded from the shear planes. Bolts having a diameter of 7/8 inch shall be used in existing rivet holes and in new 1 5/16 inch diameter open holes. Field verify existing rivet hole diameter after rivet removal. Holes that will not accommodate a new 7/8 inch diameter bolt shall be reamed to 1 5/16 inch diameter. Edge distances between center of the bolt hole and the edge of the new plates shall be 1 1/2 inches minimum, unless noted otherwise.
4. All steel retrofit plate material shall conform to AASHTO M270 Grade 50 (ASTM A709 Grade 50). Steel fill plates may be Grade 36 (ASTM A36).
5. All structural steel plate and shapes shall meet Zone 2 Charpy V-notch toughness requirements of 25 ft-lbs. at 40 deg. F.
6. All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."
7. One outside gusset plate repair and one inside gusset plate repair are required per location as shown on sheets 8 thru 11 of 12. Four such locations (L0-E, L10-E, L0-W, and L10-W) require these repairs.
8. It is intended that the new retrofit plate bear flush on the web cover plate of the existing diagonal member.
9. When retrofitting the inside gusset plate, shoring shall be used to support the floor beam end. The shoring shall be supported on the existing concrete pier. Refer to sheet 10 of 12 for floor beam reaction table. The shoring shall be positioned directly beneath the floor beam stiffeners. See Special Provisions.
10. Should the Contractor elect to disconnect members for his/her convenience, the Contractor shall submit calculations demonstrating stability of the structure during all stages of the work, signed and sealed by a Licensed Illinois Structural Engineer.
11. Contractor shall complete the inside gusset plate retrofit before beginning the outside gusset plate retrofit. Only one gusset plate on each truss shall be worked on at any time.
12. Contractor shall remove rivets and replace with high-strength bolts one-at-a-time. Flame-cutting of rivets is not permitted. Newly installed bolts shall have the bolt heads located between the two gusset plates to facilitate installation of the retrofit and fill plates. Nuts and washers shall be installed snug tight on all new bolts until the installation of the new fill plates or retrofit plate, unless noted otherwise.
13. Trimming of end diagonal flange angle, on member L0-U1 or U9-L10, to accommodate new retrofit plate shall occur by saw cutting or grinding. Flame-cutting is not permitted. All cut edges shall be smoothed to a surface roughness average of 250 micro-inches and interior cut must have a radius of 1"Ø.

PROPOSED STRUCTURAL STEEL REPAIR PROCEDURE

1. Trim existing top flange angle leg on diagonal member, as shown on sheets 8 and 10 of 12.
2. Clean and paint interior surfaces and isolated locations on exterior surfaces at repair locations (L0-E, L10-E, L0-W, and L10-W).
3. Wash remaining outside gusset surfaces.
4. Verify retrofit plate dimensions.
5. Erect approved temporary shoring below floor beam stiffeners in work area, as shown on sheet 10 of 12.
6. Remove rivets and install new permanent bolts (fully pretensioned) on the inside gusset plate at the four locations, as shown on sheets 8 and 9 of 12.
7. Remove rivets and install new bolts one-by-one in the outstanding leg of the floor beam connection angle, snug tight if required for clearances, as shown on sheets 10 and 11 of 12.
8. Remove remaining rivets on inside gusset plate one-by-one and replace with new high strength bolts, snug tight.
9. Field drill holes in new retrofit and fill plates to match existing holes in the gusset plate.
10. Clean all surfaces of all cutting oils and debris.
11. Touch up galvanized coating in the retrofit plate and fill plates.
12. With all bolts installed in the gusset plate, remove the nuts/washers and install new fill and retrofit plates, do not remove nuts from bolts installed during Step 7.
13. Reinstall all nuts and washers and pretension all bolts in the retrofit plate and floor beam connection angles.
14. Install outside gusset plate retrofits following Steps 7 through 13, refer to sheets 8 and 9 of 12.
15. Remove temporary shoring.
16. Touch-up damage to painted and galvanized coatings.
17. Install joint sealant along perimeter of plies between steel plate as directed by the Engineer.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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".

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

The Contractor shall close the sidewalk and two traffic lanes adjacent to the truss being retrofitted.

No permit loads are allowed access to the bridge during Structural Steel Repair work. The lane closure in the main truss span shall not be used for construction staging and the Contractor shall keep the lane closure in the span clear of all materials, equipment and parked vehicles.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	12820
Bridge Deck Scarification 3/8"	Sq. Yd.	1850
Thin Polymer Overlay 3/8"	Sq. Yd.	1850
Structural Repair of Concrete (≤ 5")	Sq. Ft.	160
Bridge Deck Concrete Sealer	Sq. Ft.	5641
Prefomed Joint Seal 1/2"	Foot	63
Prefomed Joint Seal 1"	Foot	126
Prefomed Joint Seal 3"	Foot	63
Polymer Concrete	Cu. Ft.	7.0
Reinstall Rubber Fender System	L. Sum	1
Temporary Shoring and Cribbing	Each	4

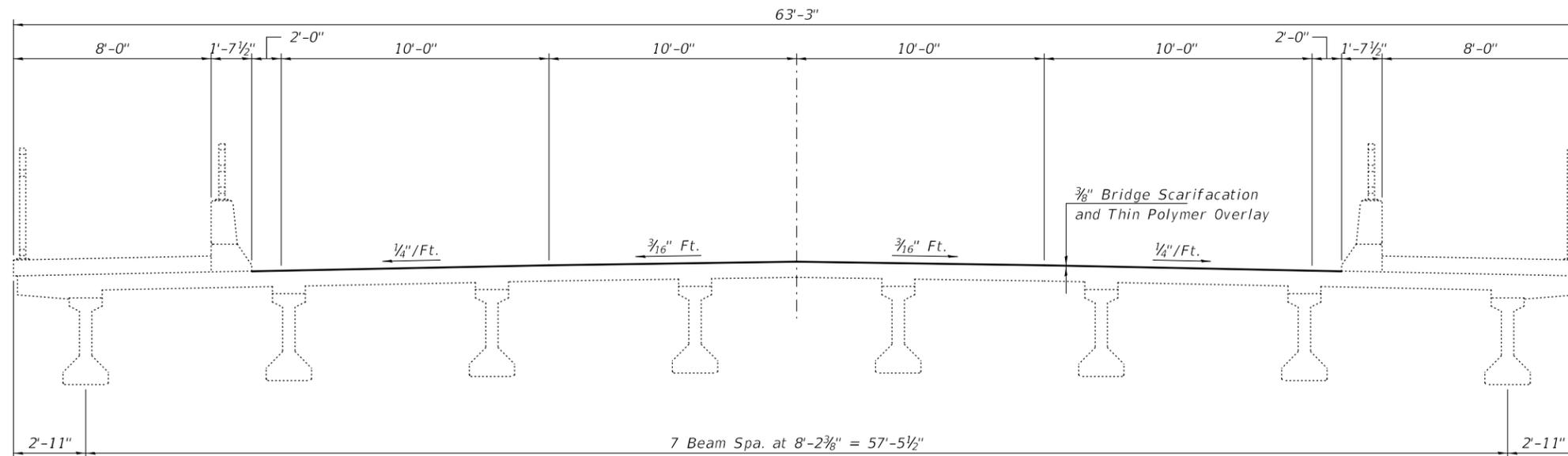
DESIGNED - JOV	EXAMINED		DATE - MARCH 20, 2020
CHECKED - VHV	PASSED		REVISED -
DRAWN - daburdell		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - JOV VHV			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

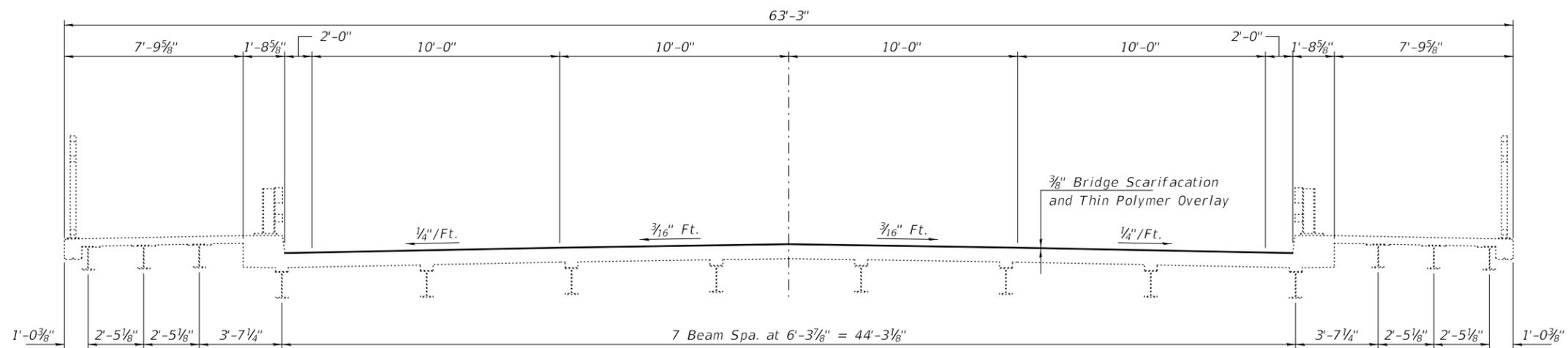
**GENERAL NOTES AND BILL OF MATERIAL
SN 016-0294**

SHEET NO. 2 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K31	



CROSS SECTION - APPROACH SPANS



CROSS SECTION - TRUSS SPAN

DESIGNED - JOV
 CHECKED - VHV
 DRAWN - daburdell
 CHECKED - JOV VHV

EXAMINED
 PASSED

Timothy A. Daburdell
 ENGINEER OF STRUCTURAL SERVICES

Carl R. Meyer
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 20, 2020

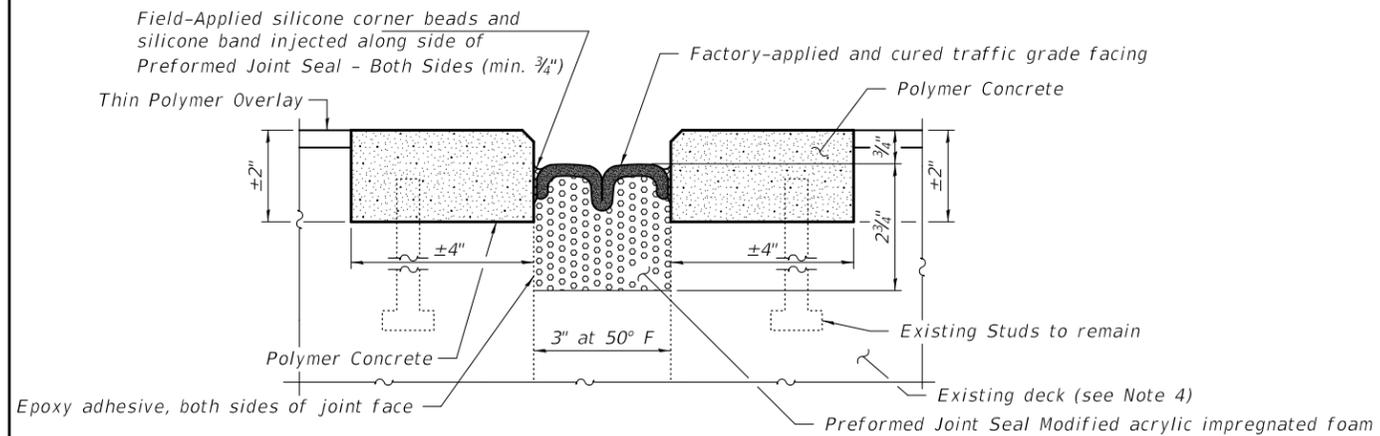
REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

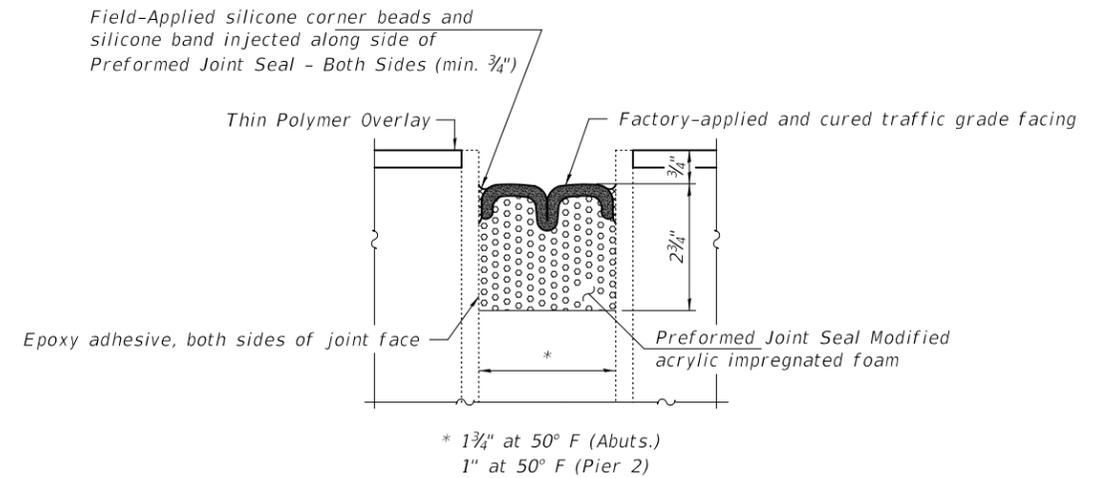
TYPICAL CROSS SECTIONS
 SN 016-0294

SHEET NO. 3 OF 12 SHEETS

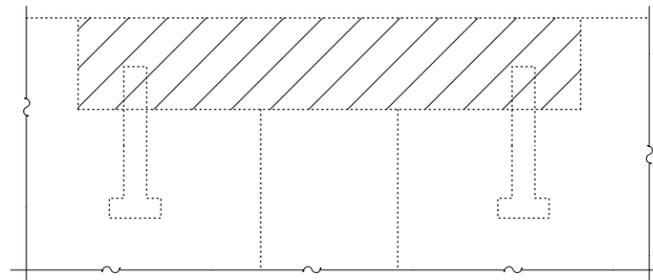
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	13
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



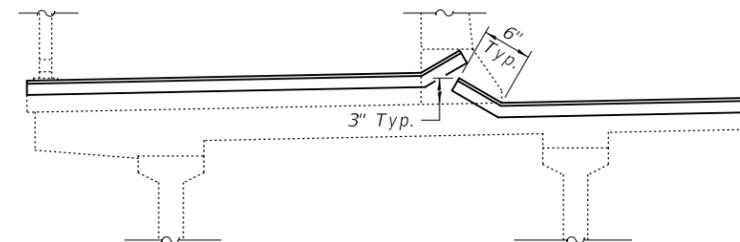
PREFORMED JOINT SEAL DETAIL AT NEOPRENE BLOCKOUT
(Pier 1)



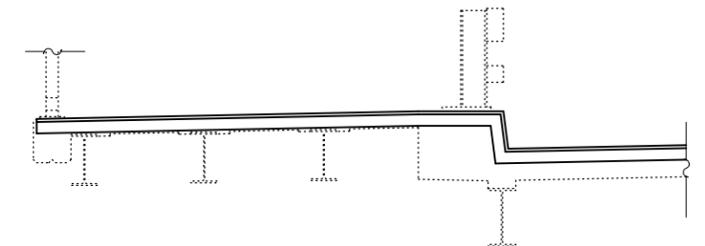
PREFORMED JOINT SEAL DETAIL
(Both Abuts. & Pier 2)
(Pier 2 shown)



REMOVAL DETAIL
(Pier 1)

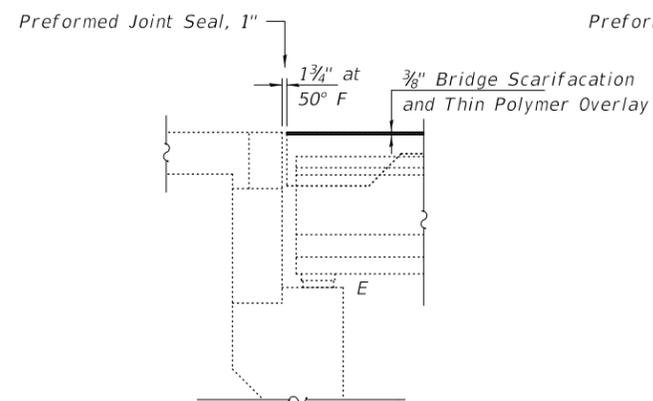


ABUTMENTS

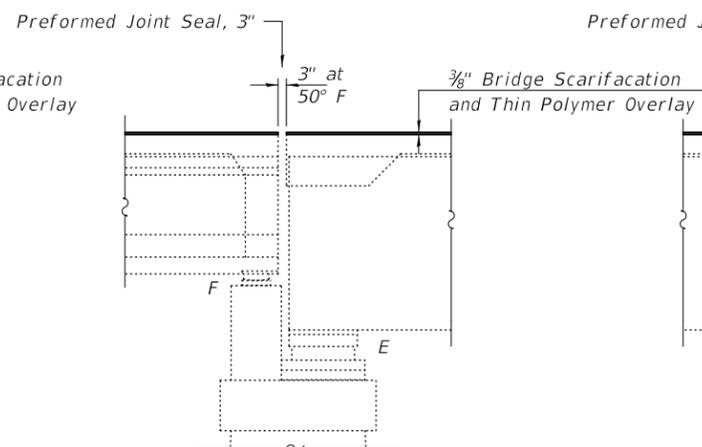


PIERS

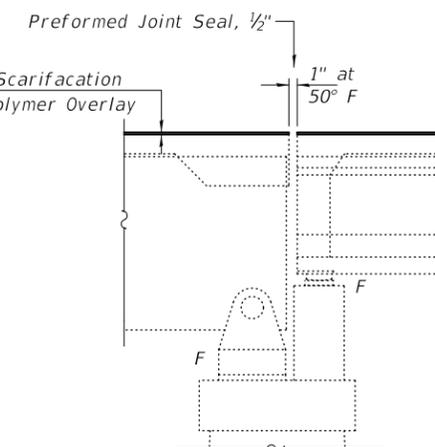
LIMITS OF PREFORMED JOINT STRIP SEAL



SECTION THRU ABUTS.



SECTION THRU PIER 1



SECTION THRU PIER 2

NOTES

1. Provide an expansion joint seal system as shown
2. Install expansion joint sealing system in accordance with the manufacturer's recommendations.
3. Verify dimensions before fabrication of expansion joint seal
4. Repair areas of spalled or deteriorated concrete adjacent to expansion joints.
5. Stage installation of expansion joint seals in accordance with traffic control plans

DESIGNED - JOV
CHECKED - VHV
DRAWN - daburdell
CHECKED - JOV VHV

EXAMINED
PASSED


 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

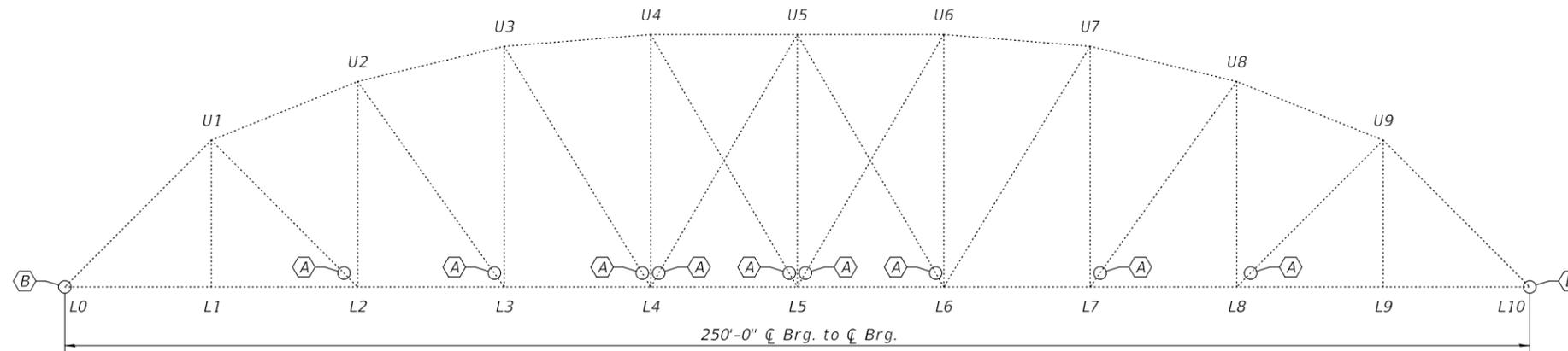
DATE - MARCH 20, 2020
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR DETAILS
SN 016-0294

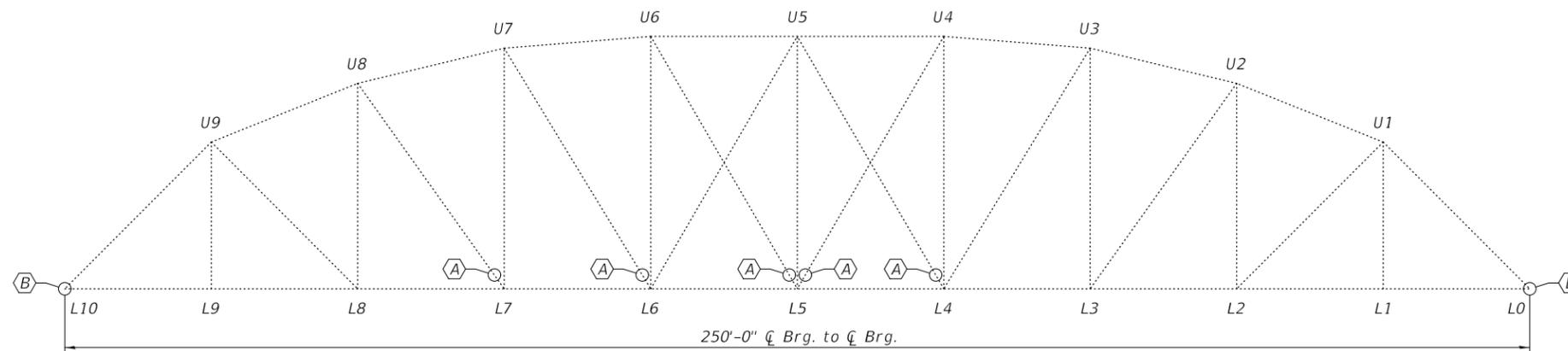
SHEET NO. 4 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	14
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



EAST TRUSS
(Looking West)

- (A) - Diagonal Member Repair
- (B) - Gusset Plate Repair



WEST TRUSS
(Looking East)

- (A) - Diagonal Member Repair
- (B) - Gusset Plate Repair

EXPIRES 11-30-2020

DESIGNED - JOV
 CHECKED - VHV
 DRAWN - daburdell
 CHECKED - JOV VHV

EXAMINED
 PASSED
 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

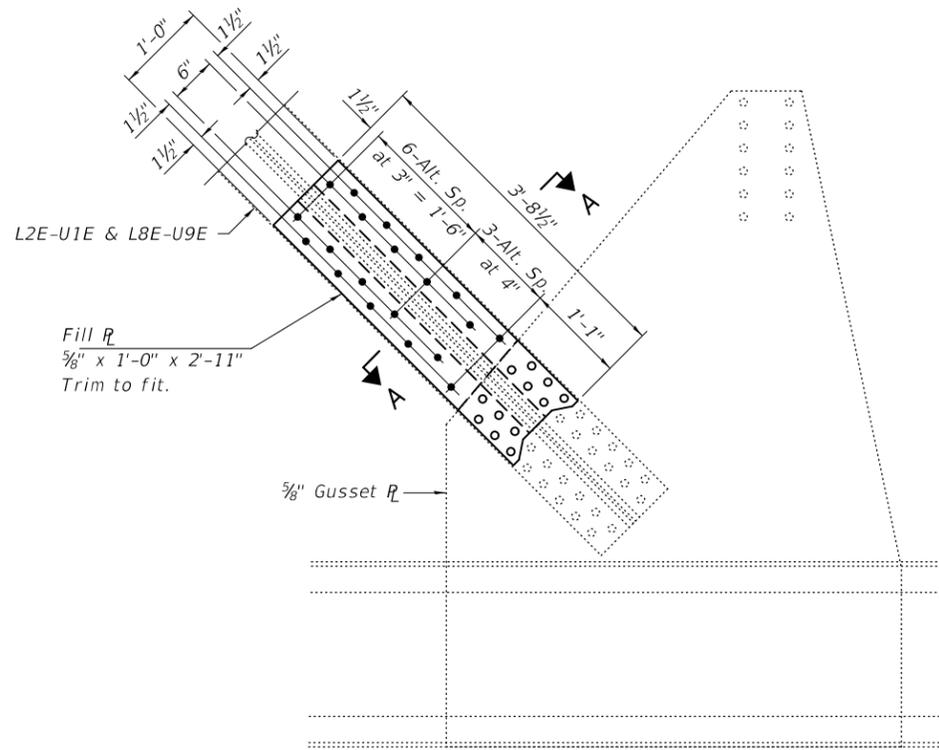
DATE - MARCH 20, 2020
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

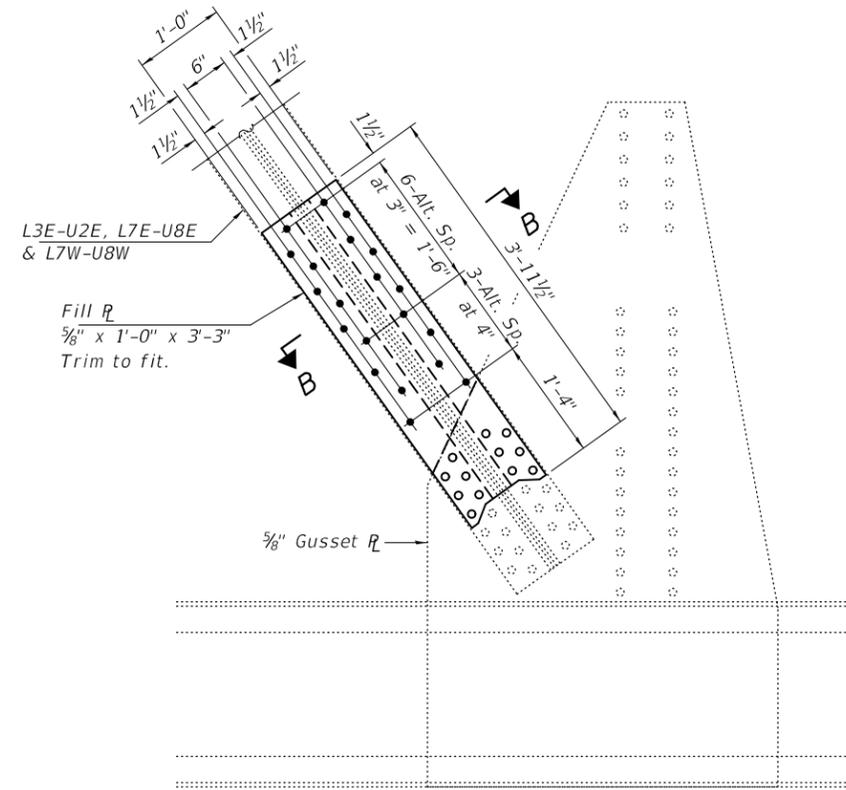
TRUSS REPAIR LOCATIONS
 SN 016-0294

SHEET NO. 5 OF 12 SHEETS

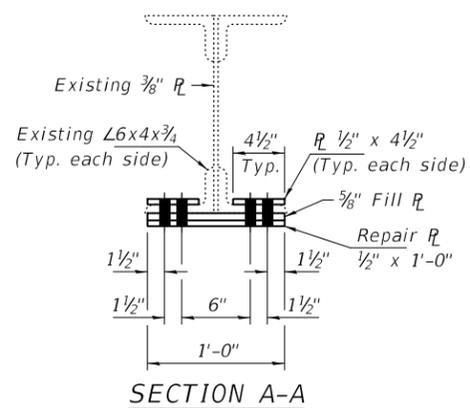
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	15
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



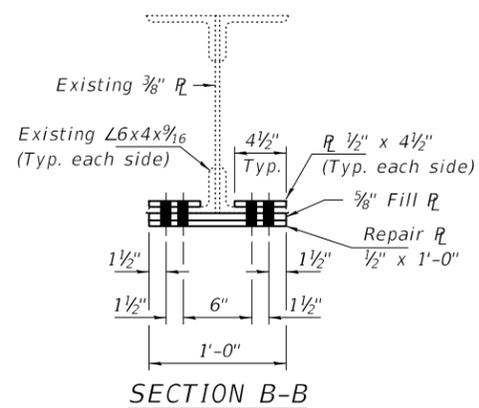
REPAIR "A" AT L2E-U1E & L8E-U9E
(L2E-U1E shown, L8E-U9E similar by rotation.)



REPAIR "A" AT L3E-U2E, L7E-U8E & L7W-U8W
(L3E-U2E & L7W-U8W shown, L7E-U8E similar by rotation.)



SECTION A-A



SECTION B-B

BOLT HOLE LEGEND

- ⊙ - Existing rivet to remain.
- - Replace existing 7/8"Ø rivet with 7/8"Ø A490 Bolt.
- - New 7/8"Ø A490 Bolt.
- ⊙ - Replace existing 7/8"Ø rivet with new 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.
- ⊙ - New 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.

DESIGNED - JOV
 CHECKED - VHV
 DRAWN - daburdell
 CHECKED - JOV VHV

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

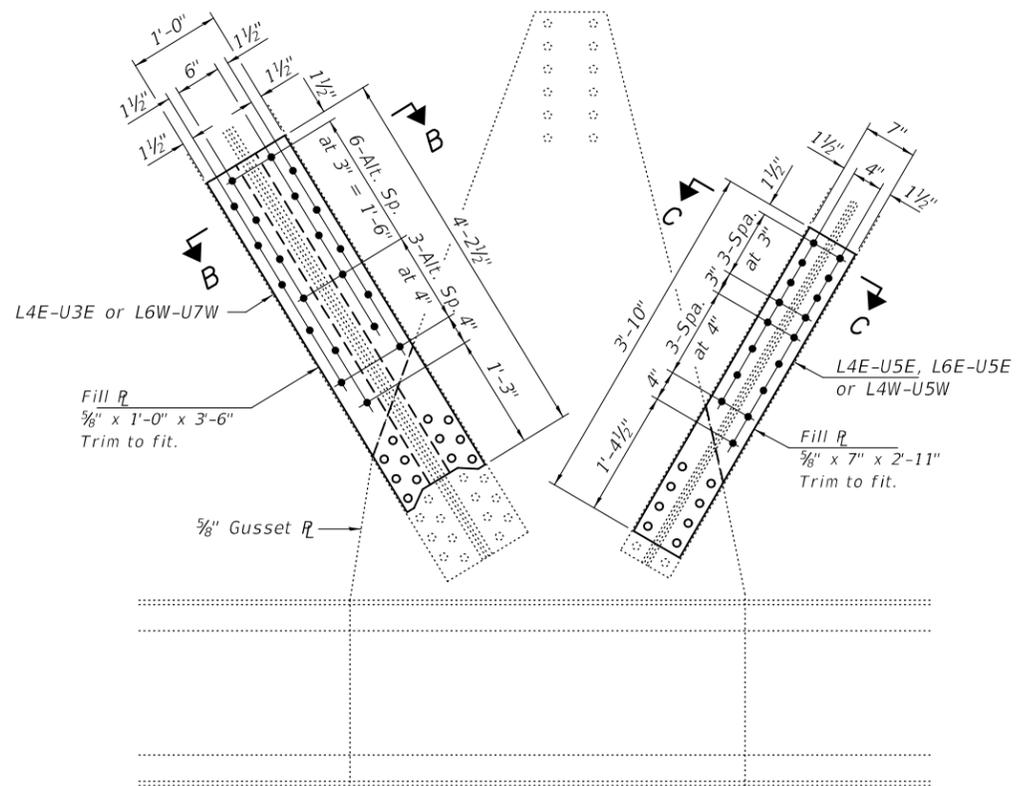
DATE - MARCH 20, 2020
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

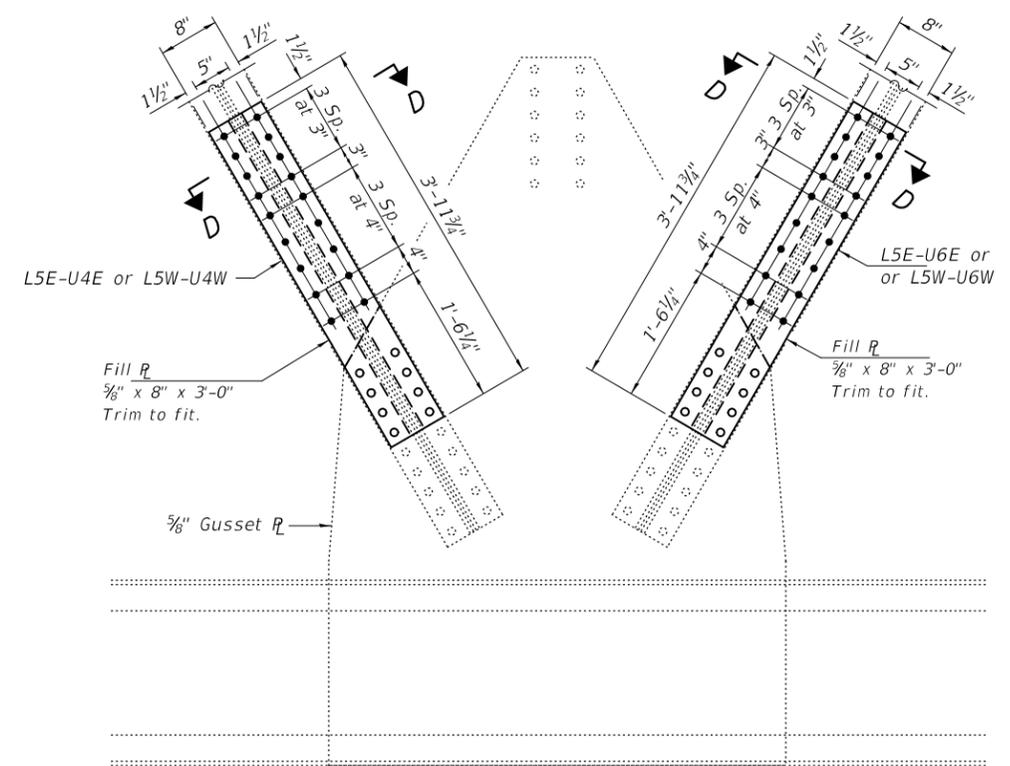
**REPAIR DETAILS
 SN 016-0294**

SHEET NO. 6 OF 12 SHEETS

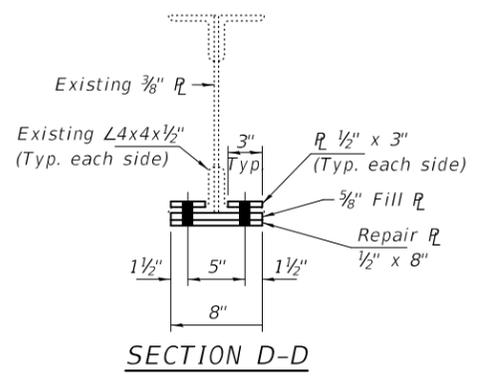
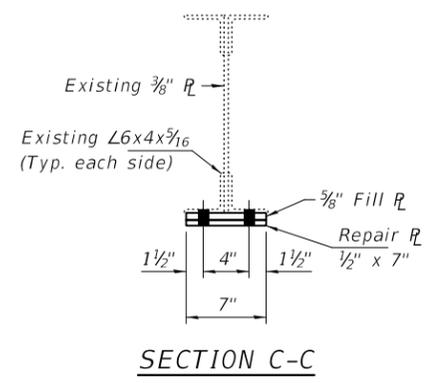
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	16
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



REPAIR "A" AT L4E-U3E, L4E-U5E, L6E-U5E, L6W-U7W & L4W-U5W
 (L4E & U3E & L4E-U5E shown, L6W-U5E, L6W-U7W & L4W-U5W similar)



REPAIR "A" AT L5E-U4E, L5E-U6E, L5W-U6W & L5W-U4W
 (L5E & U4E & L5E-U6E shown, L5W-U6W & L5W-U4W similar)



Note:
 See sheet 6 of 12 for
 Sec B-B.

BOLT HOLE LEGEND

- ⊙ - Existing rivet to remain.
- - Replace existing 7/8"Ø rivet with 7/8"Ø A490 Bolt.
- - New 7/8"Ø A490 Bolt.
- ⊙ - Replace existing 7/8"Ø rivet with new 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.
- ⊙ - New 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.

DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 20, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAILS SN 016-0294	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - VHV	PASSED - <i>Carl R. Roper</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			2857	2019-159-BR	COOK	21	17
DRAWN - daburdell		REVISED -	SHEET NO. 7 OF 12 SHEETS		CONTRACT NO. 62K31				
CHECKED - JOV VHV					ILLINOIS FED. AID PROJECT				



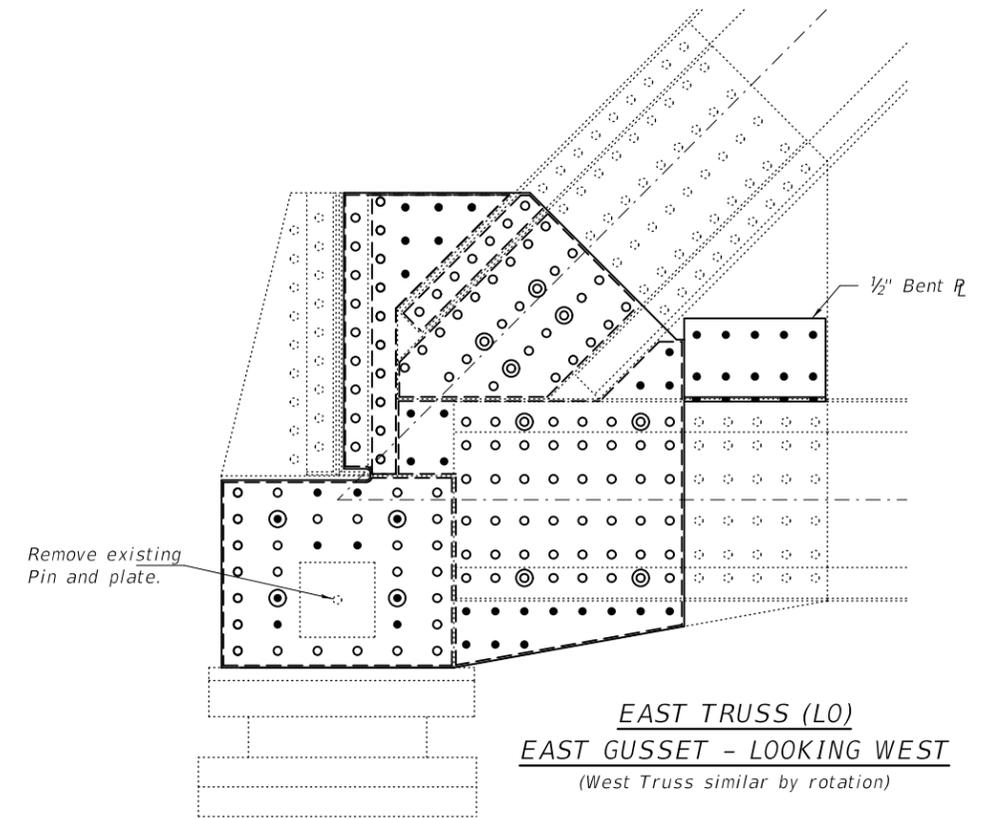
PHOTO - EAST TRUSS (L0)
EAST GUSSET - LOOKING WEST

Outstanding leg of angle
to be trimmed.

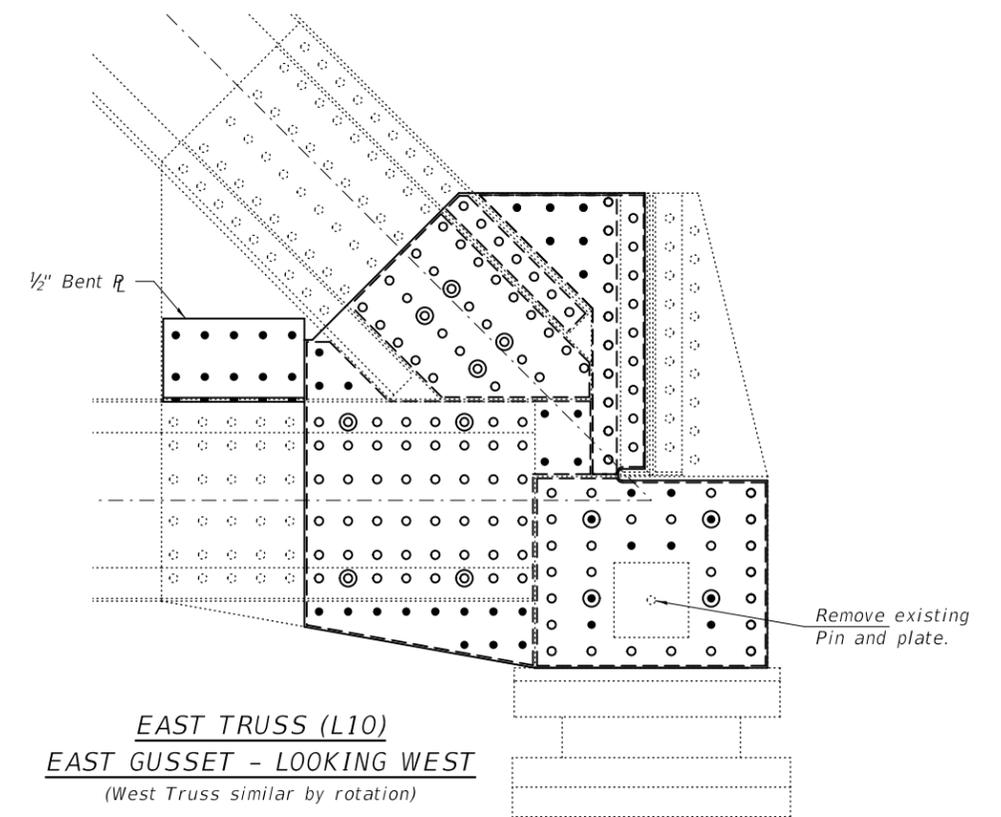
Note:
For Repair Details, see
sheet 9 of 12.

BOLT HOLE LEGEND

- - Existing rivet to remain.
- - Replace existing 7/8"Ø rivet with 7/8"Ø A490 Bolt.
- - New 7/8"Ø A490 Bolt.
- ⊙ - Replace existing 7/8"Ø rivet with new 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.
- ⊙ - New 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.



EAST TRUSS (L0)
EAST GUSSET - LOOKING WEST
(West Truss similar by rotation)



EAST TRUSS (L10)
EAST GUSSET - LOOKING WEST
(West Truss similar by rotation)

DESIGNED - JOV
CHECKED - VHV
DRAWN - daburdell
CHECKED - JOV VHV

EXAMINED	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES

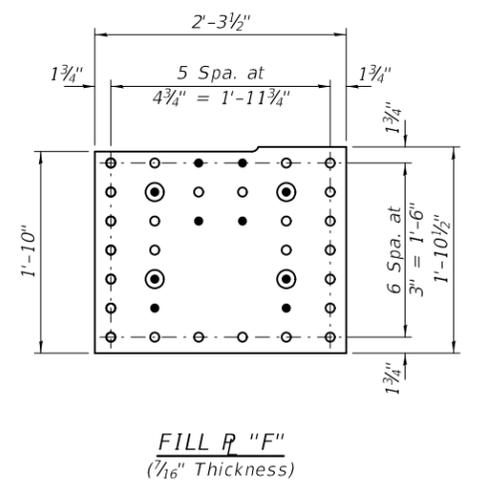
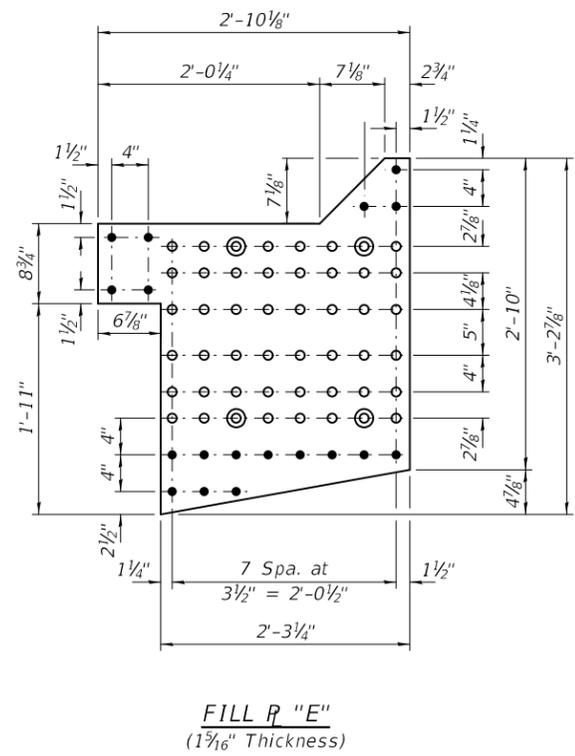
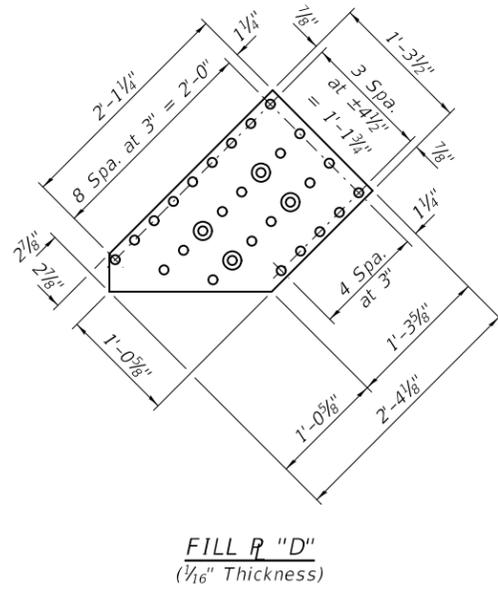
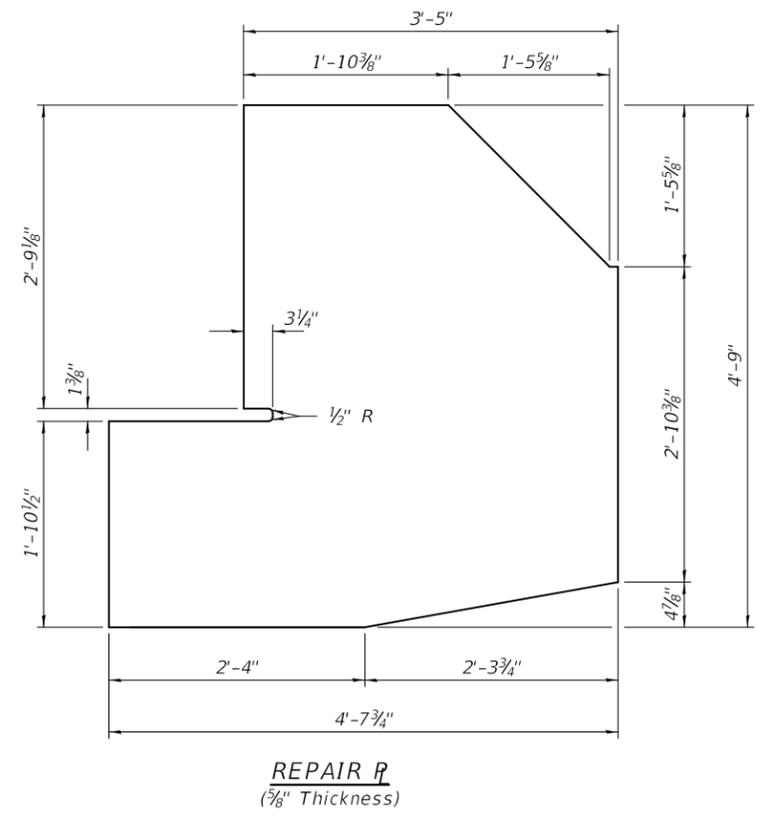
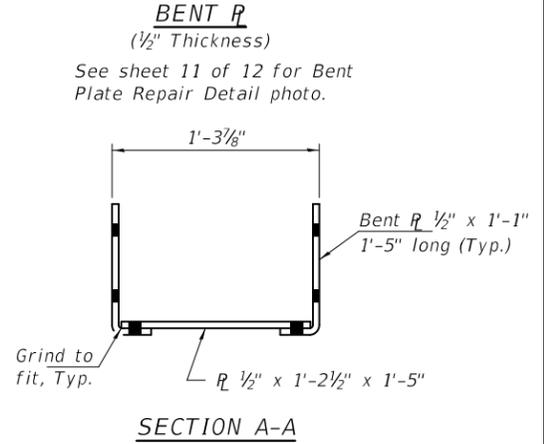
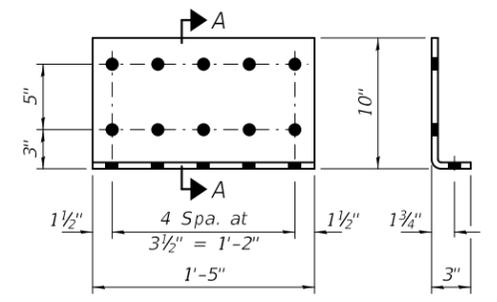
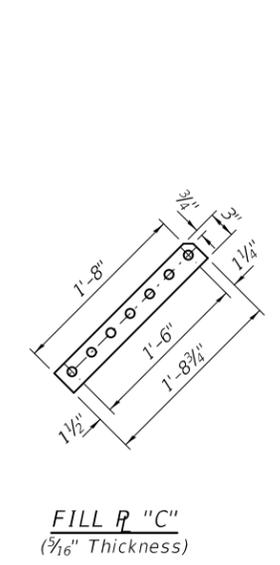
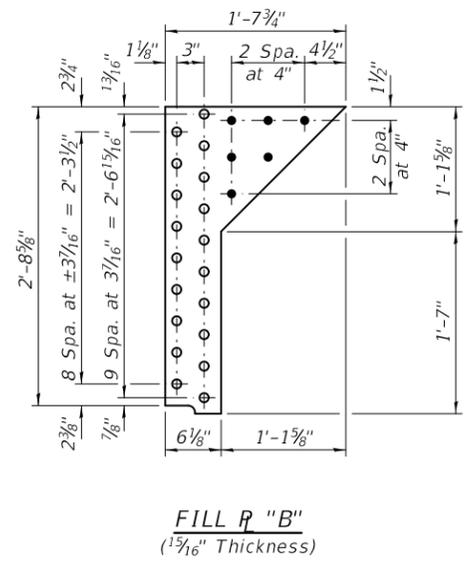
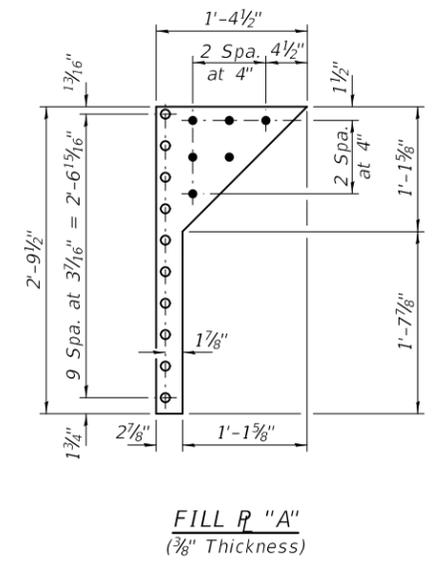
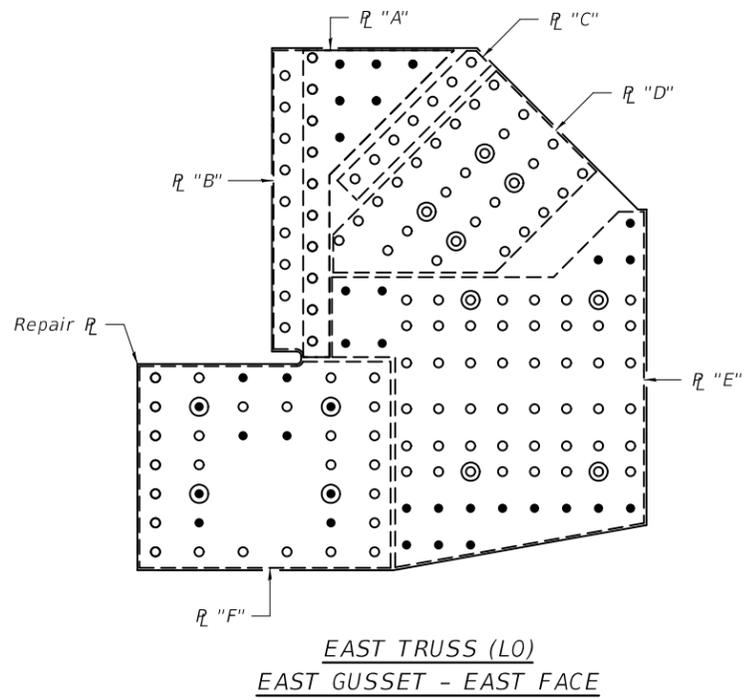
DATE - MARCH 20, 2020
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 016-0294

SHEET NO. 8 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	18
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



BOLT HOLE LEGEND

- - Existing rivet to remain.
- - Replace existing $\frac{7}{8}$ "Ø rivet with $\frac{7}{8}$ "Ø A490 Bolt.
- - New $\frac{7}{8}$ "Ø A490 Bolt.
- ⊙ - Replace existing $\frac{7}{8}$ "Ø rivet with new $\frac{7}{8}$ "Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.
- ⦿ - New $\frac{7}{8}$ "Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.

Note:
Bolt holes not shown for clarity.
All holes within the repair plate should be field drilled.

DESIGNED - JOV	EXAMINED - <i>Timothy A. Doolittle</i> ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 20, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAILS SN 016-0294	F.A.U. RTE. 2857	SECTION 2019-159-BR	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 18A
CHECKED - VHV	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 9 OF 12 SHEETS		CONTRACT NO. 62K31		
DRAWN - daburdell		REVISED -			ILLINOIS FED. AID PROJECT				
CHECKED - JOV VHV									



PHOTO - EAST TRUSS (L0)
WEST GUSSET - LOOKING EAST

Diagonal bracing to be temporarily unattached and then reattached after repair plate installation.

Remove existing Pin and plate.

Location of Temp. Shoring

1/2" Bent R

Remove existing Pin and plate.

EAST TRUSS (L10)
WEST GUSSET - LOOKING EAST
(West Truss similar by rotation)

EAST TRUSS (L0)
WEST GUSSET - LOOKING EAST
(West Truss similar by rotation)

INTERIOR STRINGER
REACTION TABLE

	Floor Beam
R _P	(K) 11
R _L	(K) 26
Imp.	(K) 8
R (Total)	(K) 45

Note:
For Repair Details, see
sheet 11 of 12.

BOLT HOLE LEGEND

- ⊙ - Existing rivet to remain.
- - Replace existing 7/8"Ø rivet with 7/8"Ø A490 Bolt.
- - New 7/8"Ø A490 Bolt.
- ⊕ - Replace existing 7/8"Ø rivet with new 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.
- ⊗ - New 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.

Outstanding leg of angle to be trimmed.

DESIGNED - JOV
CHECKED - VHV
DRAWN - daburdell
CHECKED - JOV VHV

EXAMINED
PASSED
Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES
Carl R. Ringer
ENGINEER OF BRIDGES AND STRUCTURES

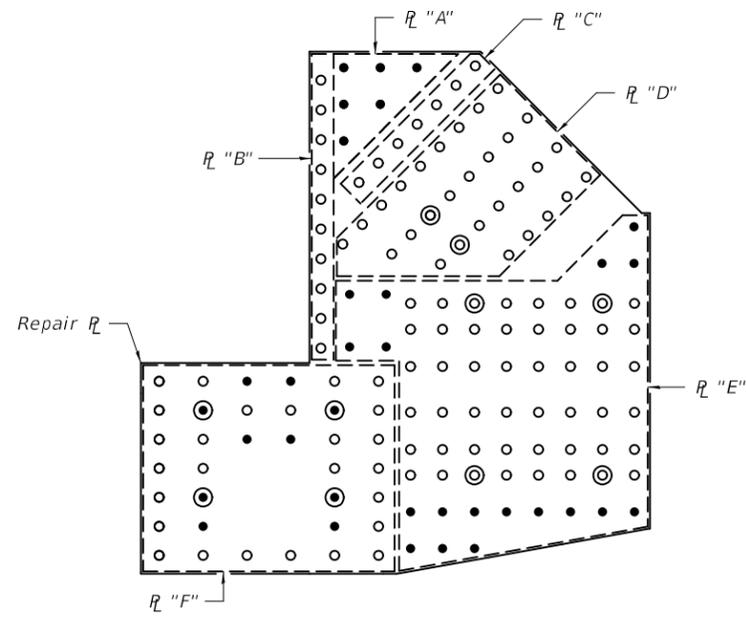
DATE - MARCH 20, 2020
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

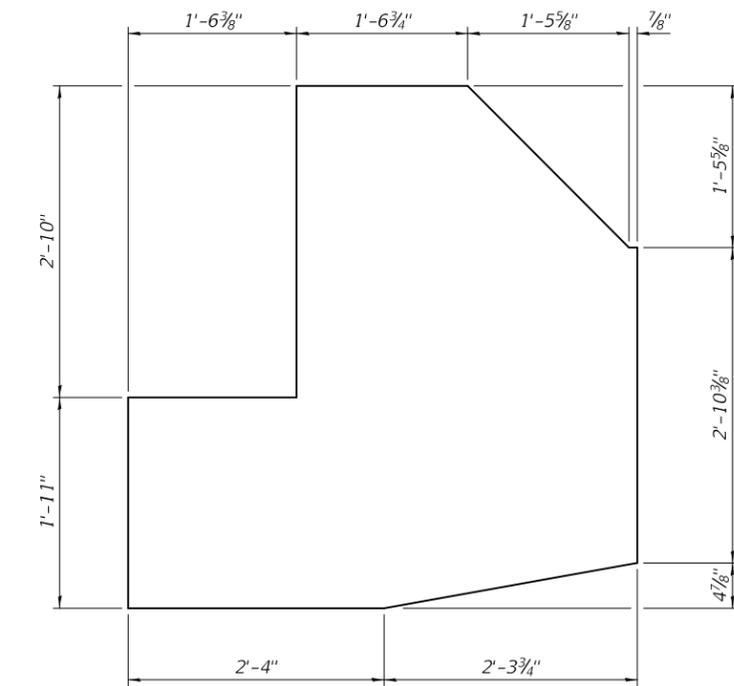
REPAIR DETAILS
SN 016-0294

SHEET NO. 10 OF 12 SHEETS

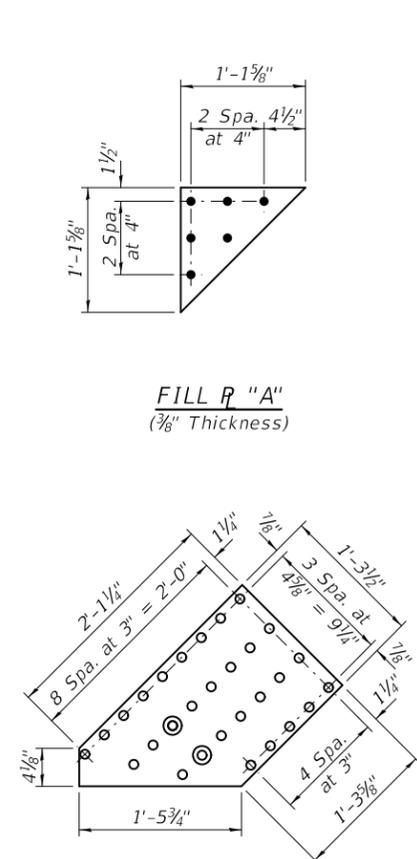
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	18B
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



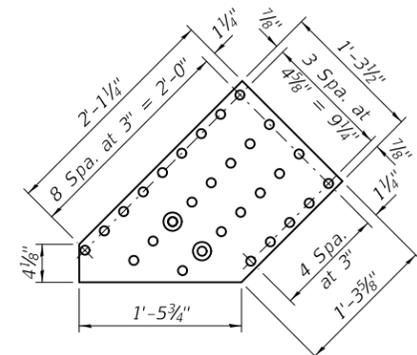
**EAST TRUSS (LO)
WEST GUSSET - WEST FACE**



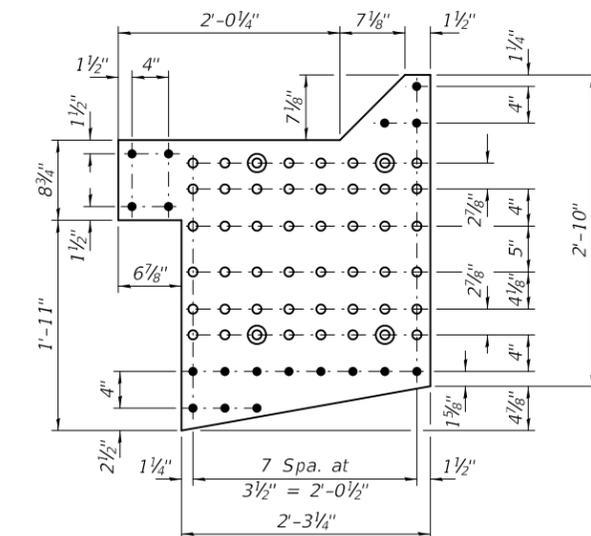
REPAIR R
(5/8" Thickness)



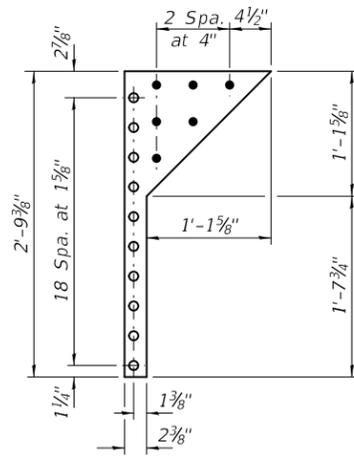
FILL R "A"
(3/8" Thickness)



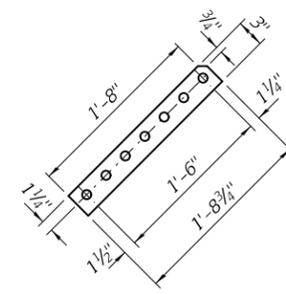
FILL R "D"
(1/4" Thickness)



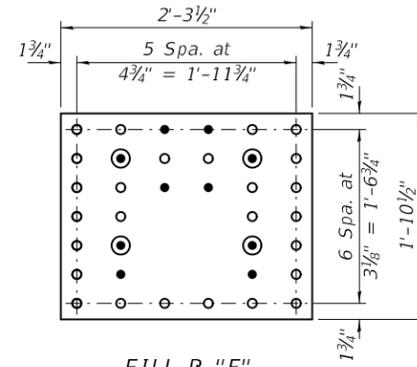
FILL R "E"
(1 1/16" Thickness)



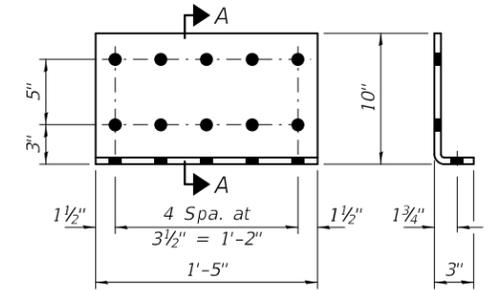
FILL R "B"
(1 5/16" Thickness)



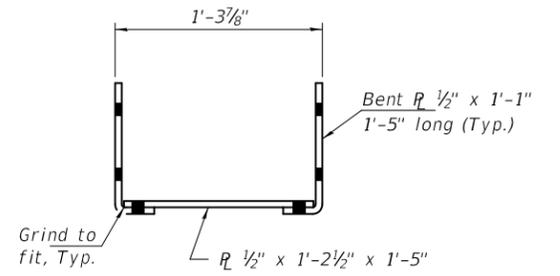
FILL R "C"
(3/16" Thickness)



FILL R "F"
(1/4" Thickness)

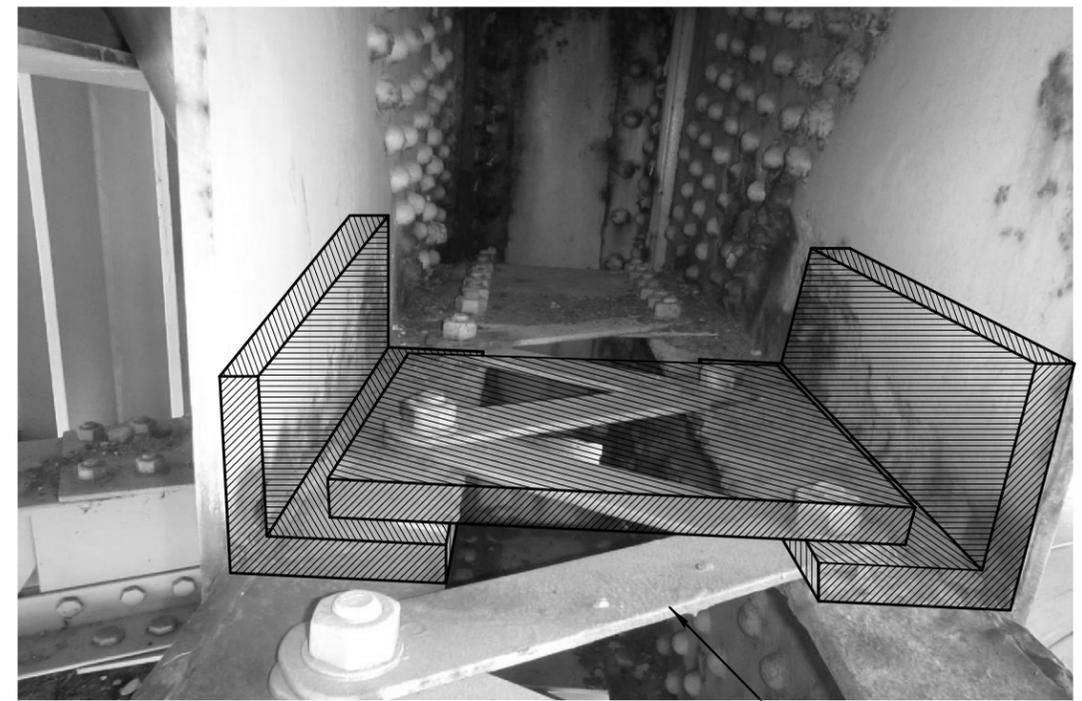


BENT R
(1/2" Thickness)



SECTION A-A

- BOLT HOLE LEGEND**
- ⊙ - Existing rivet to remain.
 - - Replace existing 7/8"Ø rivet with 7/8"Ø A490 Bolt.
 - - New 7/8"Ø A490 Bolt.
 - ⊙ - Replace existing 7/8"Ø rivet with new 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.
 - - New 7/8"Ø A490 Bolt. Install and prestress prior to erecting fill/retrofit plates.



BENT R REPAIR DETAILS

Remove lacing to install repair plates.

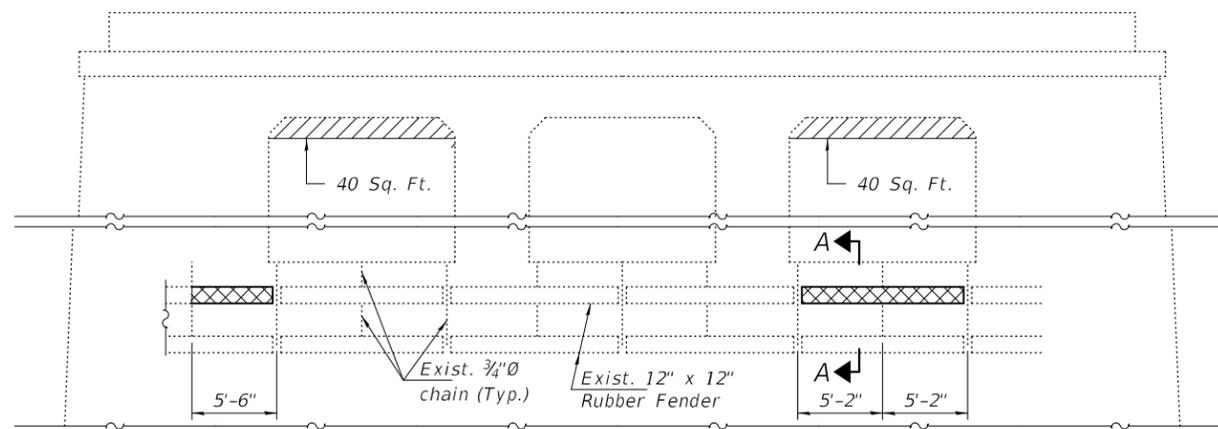
DESIGNED - JOV	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - MARCH 20, 2020
CHECKED - VHV	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Carl R. Rorer</i>	REVISED -
CHECKED - JOV VHV	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

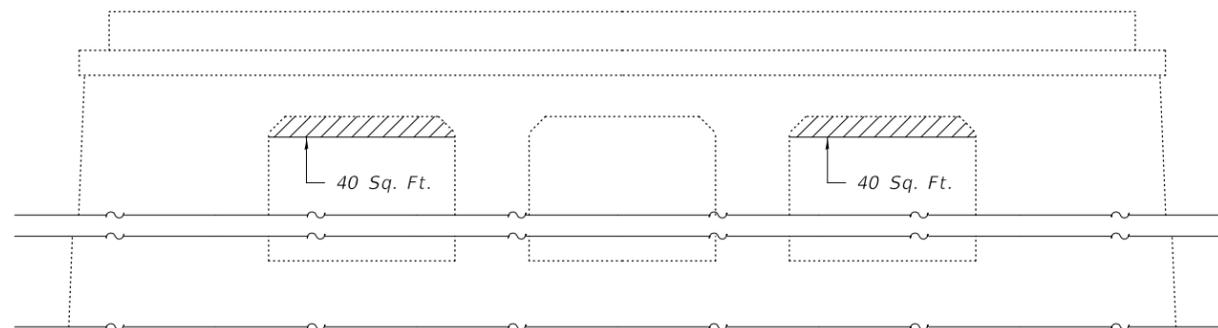
**REPAIR DETAILS
SN 016-0294**

SHEET NO. 11 OF 12 SHEETS

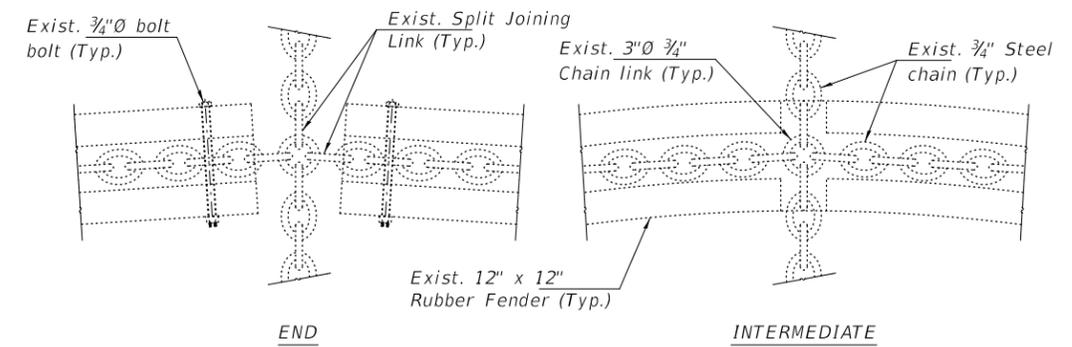
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	18C
CONTRACT NO. 62K31				
ILLINOIS FED. AID PROJECT				



PIER 1

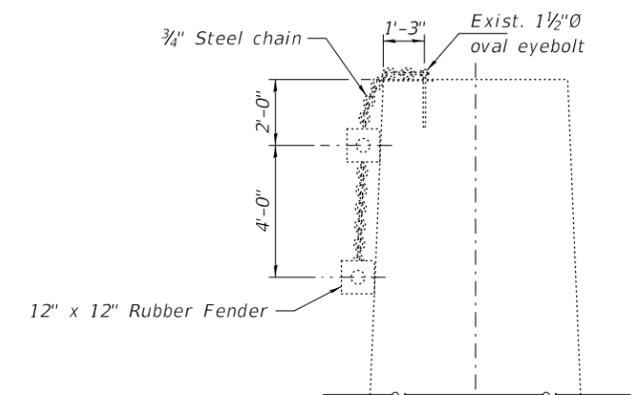


PIER 2



ELEVATION
DETAIL OF RUBBER FENDER ATTACHEMENT

- Structural Repair of Concrete (Depth ≤ 5")
Underside of Pier Cap.
- Fender Repair



SECTION A-A



PHOTO - PIER #1
(North Face)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	160
* Reinstall Rubber Fender System	L. Sum	1

* Cost of materials and labor for installation of fender system according to details shown above is included in the cost lump sum for Reinstall Rubber Fender System.

DESIGNED - JOV
CHECKED - VHV
DRAWN - daburdell
CHECKED - JOV VHV

EXAMINED
PASSED
Timothy A. Daburdell
ENGINEER OF STRUCTURAL SERVICES
Carl Pinger
ENGINEER OF BRIDGES AND STRUCTURES

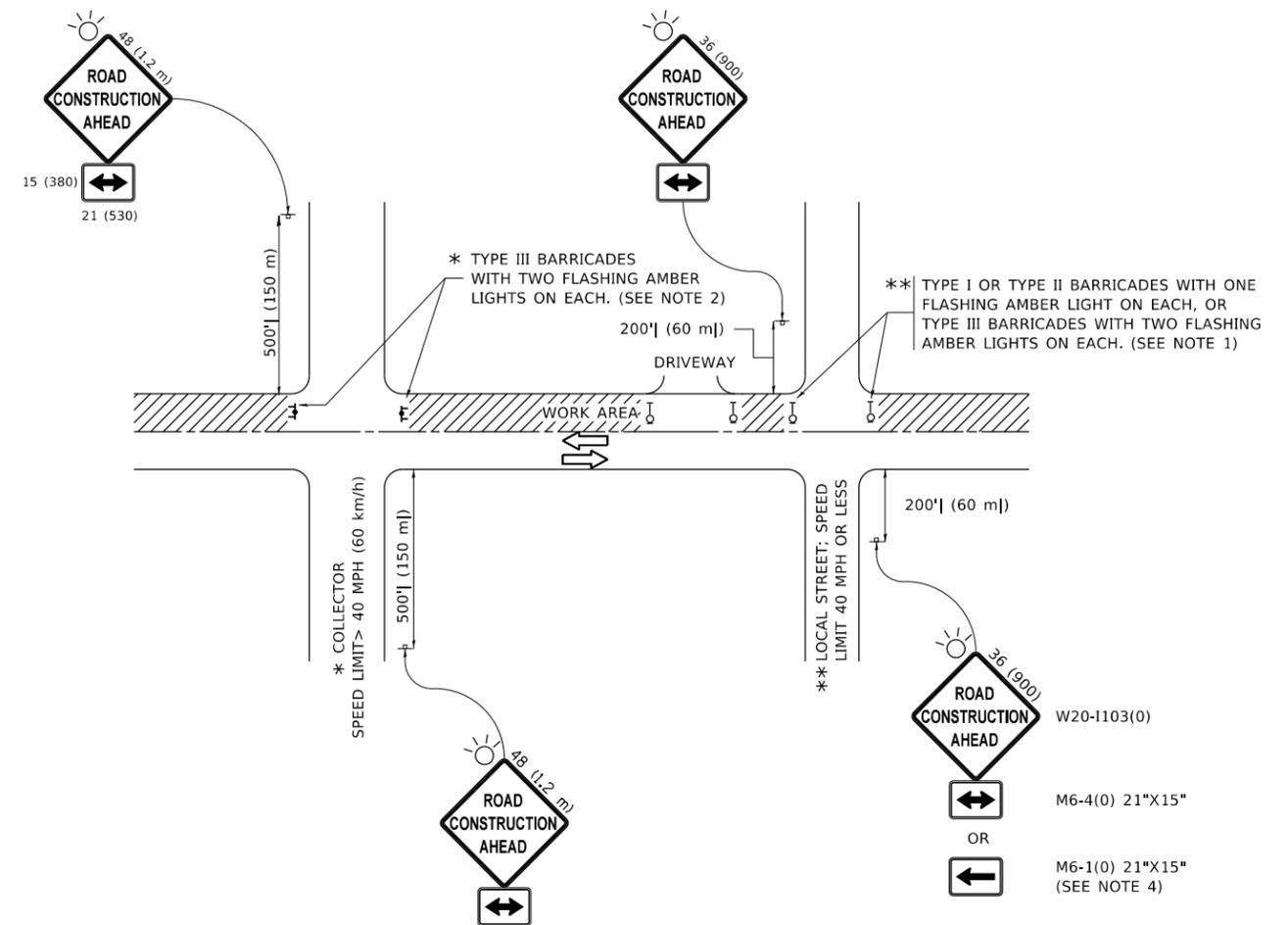
DATE - MARCH 20, 2020
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS & FENDER REPAIRS
SN 016-0294

SHEET NO. 12 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	18D
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K31	



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) 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. 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.

MODEL: Default
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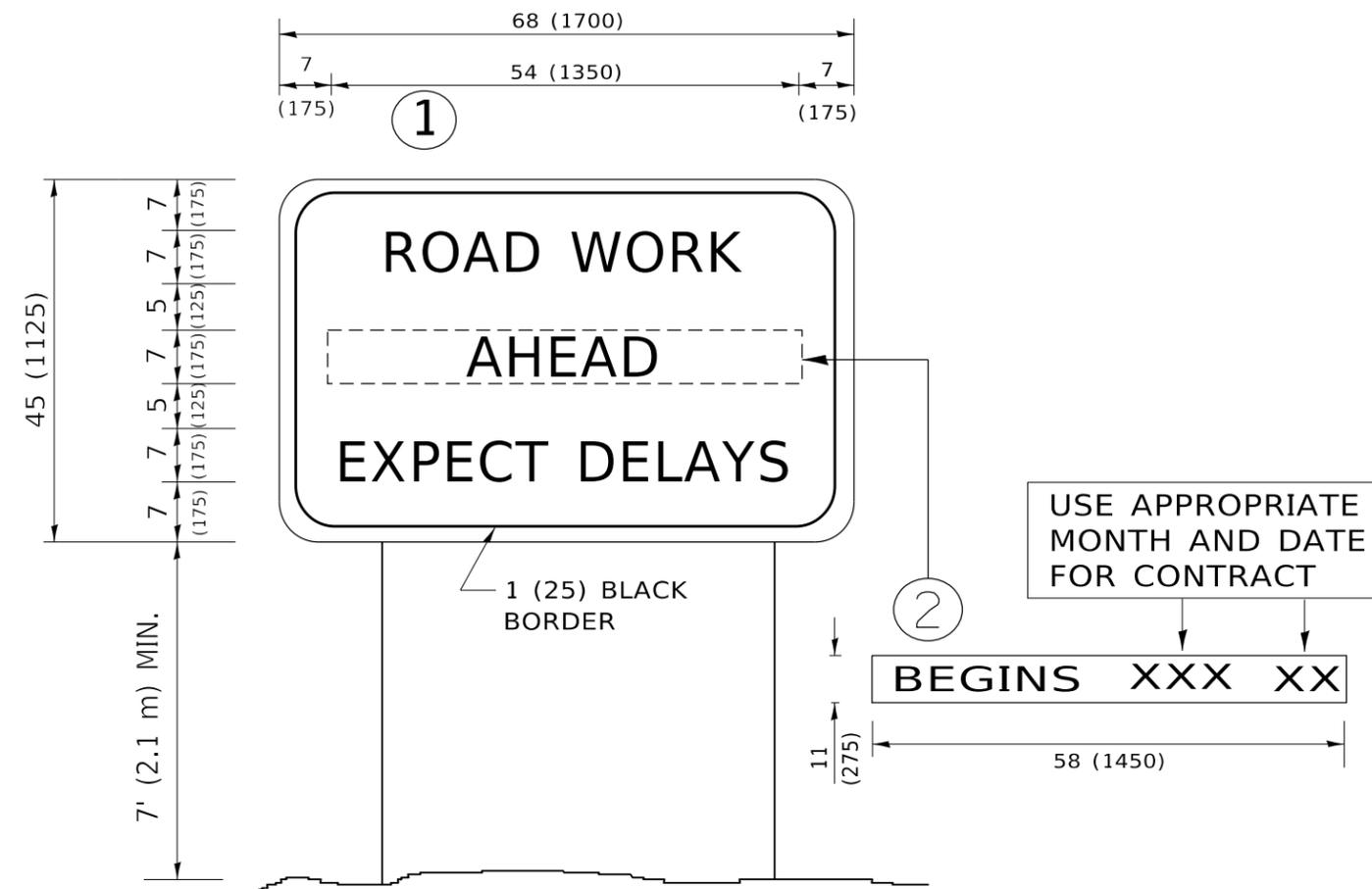
USER NAME = khamms	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 12/20/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	19
TC-10		CONTRACT NO. 62K31		
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.

MODEL: Default
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 PROJECT: PWIDOT\Documents\DOT_Offices\District_1\Projects\132120\CaddData\Design\DES.dgn

USER NAME = khanms	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 12/20/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2019-159-BR	COOK	21	21
TC-22			CONTRACT NO. 62K31	
ILLINOIS FED. AID PROJECT				