

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	1
ILLINOIS			CONTRACT NO. 62P23	

\* 38 + 1 = 39 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN  
THE VILLAGE OF CALUMET PARK  
AND THE CITY OF BLUE ISLAND

**TRAFFIC DATA**

ASHLAND AVE

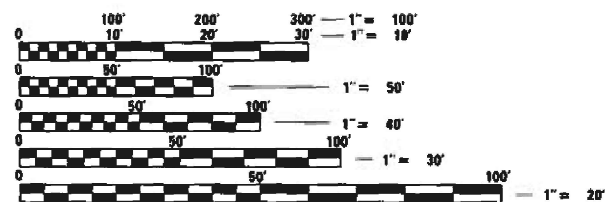
2018 ADT = 18500

POSTED SPEED LIMIT = 40 MPH

**PROPOSED  
HIGHWAY PLANS**

FAU ROUTE 2857: ASHLAND AVE  
OVER CALUMET SAG CHANNEL  
SECTION 2021-095-BP  
PROJECT STP-MP16(235)  
BRIDGE PAINTING  
COOK COUNTY

C-91-221-21

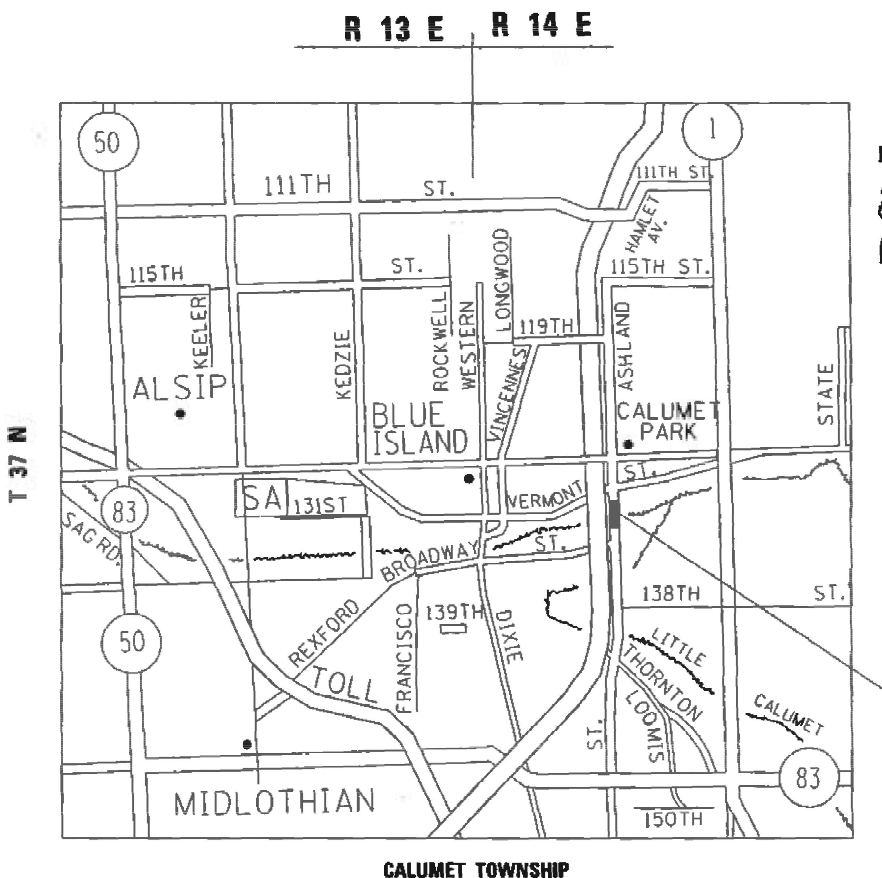


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: LEDEZMA RODRIGO (847) 705-4580  
PROJECT MANAGER: MIDY J. ALAIN (847) 221-3056

CONTRACT NO. 62P23



SN 016-0294  
ASHLAND AVE OVER  
CALUMET SAG CHANNEL

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 18, 2021  
Jose Rodriguez REGIONAL ENGINEER

December 10, 2021  
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

December 10, 2021  
Stephen M. Smith DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-27	BRIDGE DETAILS SN 016-0294
28	TRAFFIC STAGING CROSS SECTIONS
29-30	TRAFFIC CONTROL PLAN. STAGE 1
31-32	TRAFFIC CONTROL PLAN. STAGE 2
33-34	PAVEMENT MARKING PLAN
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37	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
38	ARTERIAL ROAD INFORMATION SIGN (TC-22)

**STATE STANDARDS**

STD NO.	DESCRIPTION
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS < 40MPH
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

**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 UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ELGIN AND THE CITY OF BLUE ISLAND.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT Kalpana.Kannan-Hosadurga@illinois.gov A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINING WORK.

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 BASED AT THE UNIT PRICE BID FOR THE WORK.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND PRESERVE THE EXISTING BRIDGE LIGHTING AND ANY UTILITIES ATTACHED TO THE BRIDGE AT ANY LOCATIONS ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.

THE CONTRACTOR SHALL OBTAIN COAST GUARD APPROVAL FOR ANY WORK THAT MAY INTERFERE WITH NAVIGATIONAL OPERATIONS OF THE NAVIGABLE WATERS. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELLOW FOR APPROVAL.

BRIDGE ADMINISTRATOR  
US COAST GUARD  
NINTH COAST GUARD DISTRICT  
1240 N. NINTH ST  
CLEVELAND, OH 44199-2060

(Scott Striffler (216) 902-6087.

**GENERAL PAINT NOTES**

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

ALL INTERIOR AND EXTERIOR SURFACES OF APPROACH SPANS AND BUILT-UP TRUSS MEMBERS, BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL (FLOOR BEAMS, STRINGERS, DIAPHRAGMS, ETS..) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING-SSPC-SP10. THESE AREAS SHALL BE PAINTED ACORDING TO THE REQUIREMENTS OF PAINT SYSTEM I -0Z/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR TRUSS MEMBERS AND FASCIA BEAMS SHALL BE BLUE, MUNSELL NO. 10B 3/6.

ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO THE TRUSS OR BEAMS SHOULD BE CLEANED AND PAINTED.

A MINIMUM OF 2 (TWO) AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."

ALL VERTICAL AND DIAGONAL LAPPING MEMBERS SHALL BE CAULKED ALONG THE TOP AND SIDES. THE BOTTOM SHALL REMAIN OPEN FOR DRAINAGE.

JOINT SEALANT SHALL BE INSTALLED AROUND ALL CONNECTION PLATES AND AT AREAS OF PACK RUST BETWEEN BUILT UP MEMBERS.

THE SEALANT SHALL BE AN APPROVED POLYURETHANE SEALANT, COMPATIBLE WITH THE PROPOSED PAINT SYSTEM AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

THE SURFACES OF THE CREVICES TO RECEIVE JOINT SEALANT SHALL BE CLEANED COMMERCIAL GRADE POWER TOOL CLEANING SSPC-SP15 AND PAINTED ACCORDING TO THE REQUIRES OF PAINT SYSTEM 2-PS/EM/U. ONCE THE PAINT SYSTEM IS DRY TO TOUCH, THE SEALANT SHALL BE INSTALLED OVER THE FINAL FINISH COAT. AFTER THE SEALANT HAS CURED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN PRODUCT DATA SHEET, A STRIP FINISH COAT SHALL BE APPLIED OVER THE SEALANT.

THE COST OF JOINT SEALANT AND CAULKING INCLUDED IN THE "CLEANING AND PAINTING STEEL BRIDGE" PAY ITEM.

SSPC QP1 AND SSPC QP2 CERTIFICATION IS REQUIRED FOR THIS CONTRACT.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES  
ASHLAND AVE OVER CALUMET SAG CHANNEL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	2
				CONTRACT NO. 62P23
ILLINOIS FED. AID PROJECT				



SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE 0047				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	80% FEDERAL 20% STATE			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18			
67100100	MOBILIZATION	L SUM	1	1			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	75	75			
70307120	TEMPORARY PAVEMENT MARKING-LINE 4"-TYPE IV TAPE	FOOT	8490	8490			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	525	525			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	525	525			
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2			
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2			
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	73	73			
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8990	8990			
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	310	310			
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	28	28			
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	38	38			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE 0047				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	80% FEDERAL 20% STATE			
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1710	1710			
78100300	REPLACEMENT REFLECTOR	EACH	110	110			
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	42	42			
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	3900	3900			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	2830	2830			
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.1	L SUM	1	1			
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4			
Z0076600	TRAINEES	HOURS	500	500			
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500			

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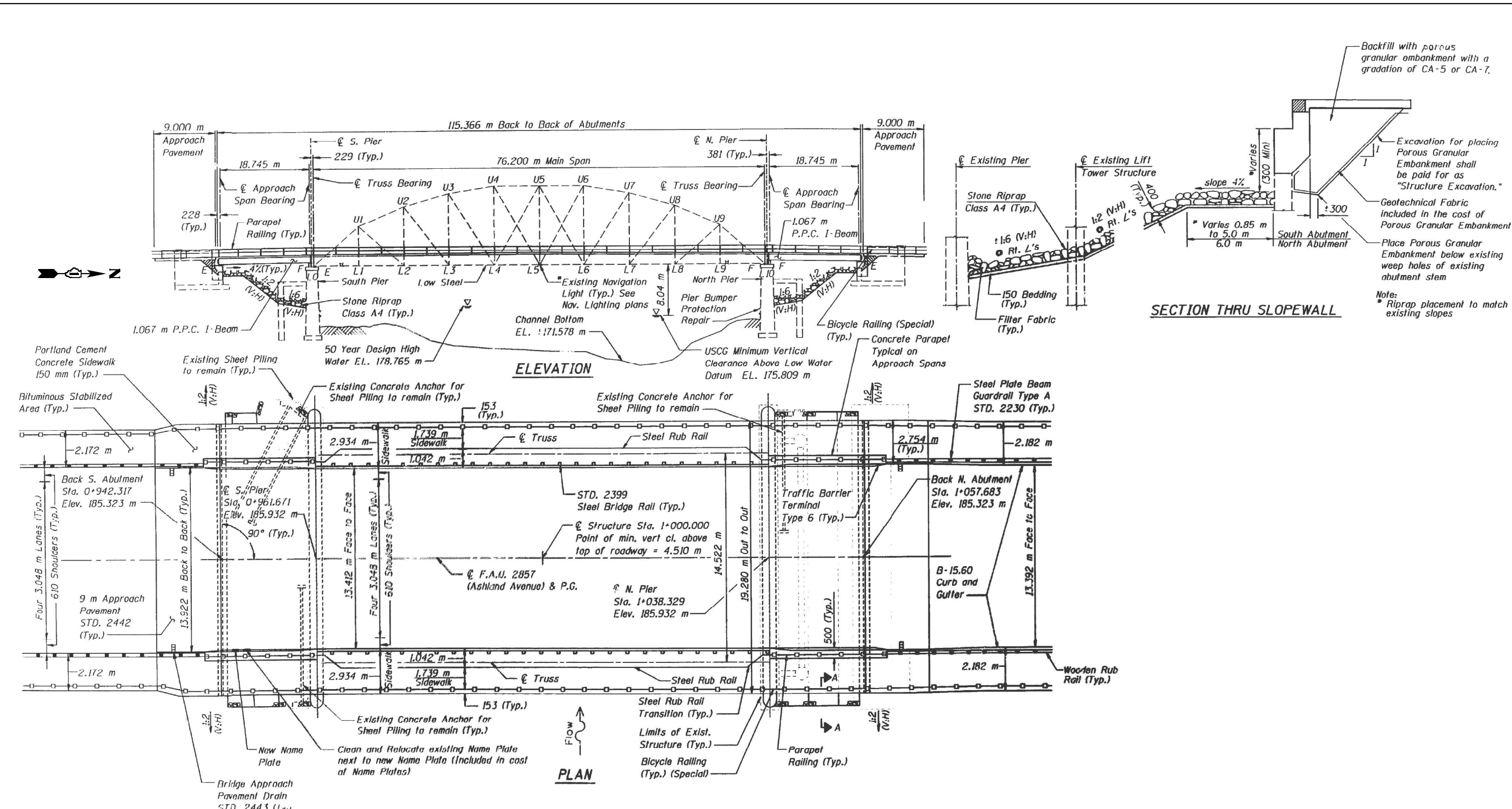
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ASHLAND AVE OVER CALUMET SAG GHANNEL  
SUMMARY OF QUANTITIES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	3
CONTRACT NO. 62P23				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

0042



**FOR INFORMATION ONLY**

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

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.

**GENERAL PLAN AND ELEVATION, SN 016-0294**  
**ASHLAND AVE OVER CULUMET SAG CHANNEL**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	4
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				





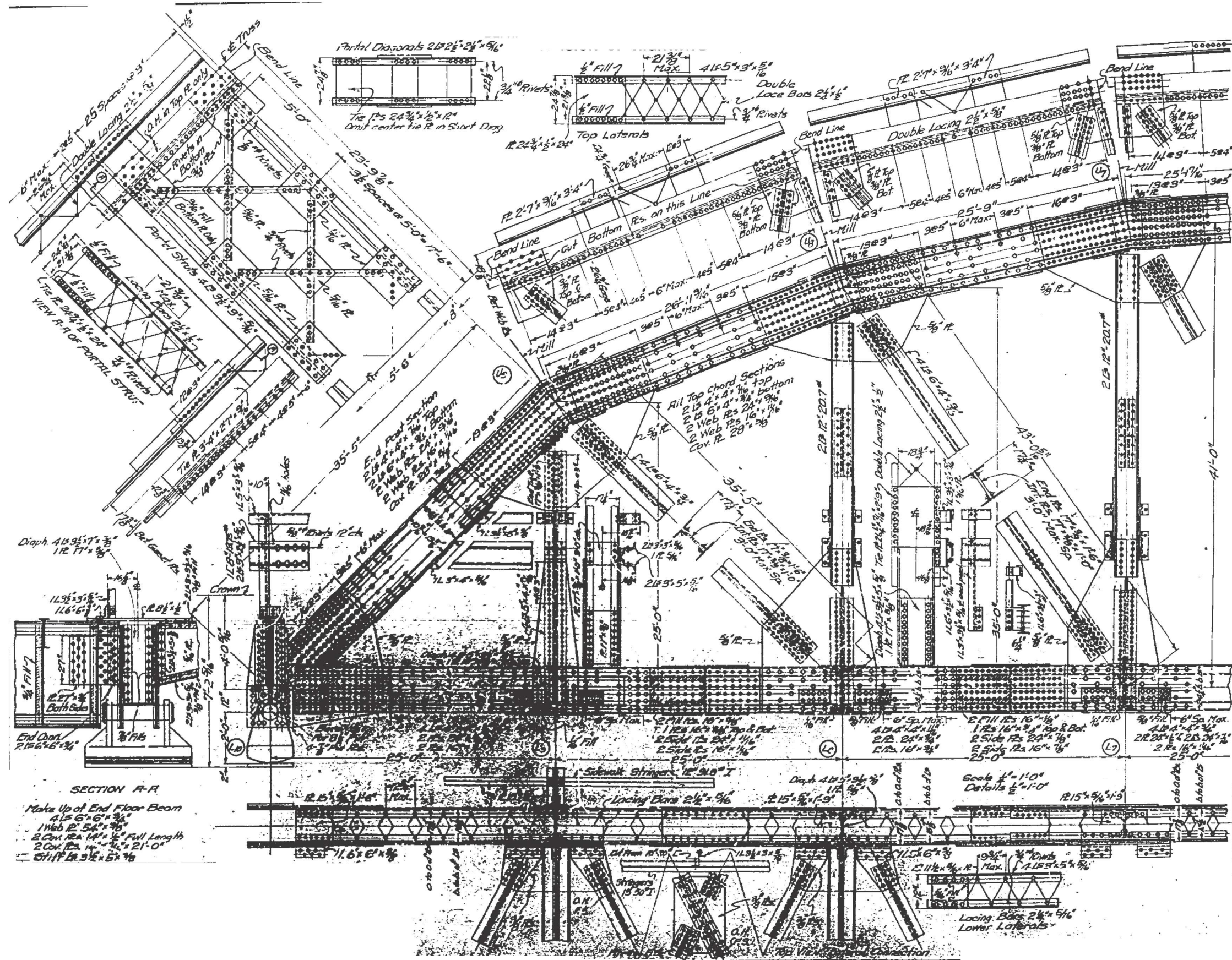












**SECTION A-A**  
 Make Up of End Floor Beam  
 4 L5 6x6 3/8  
 1 Web R 54x3/8  
 2 Cov. R 14x1/2 Full Length  
 2 Cov. R 14x1/2 21'-0"  
 2 Stiff R 3 1/2 x 5 1/8

Scale 1"=1'-0"  
 Details 1/2"=1'-0"

**FOR INFORMATION ONLY**

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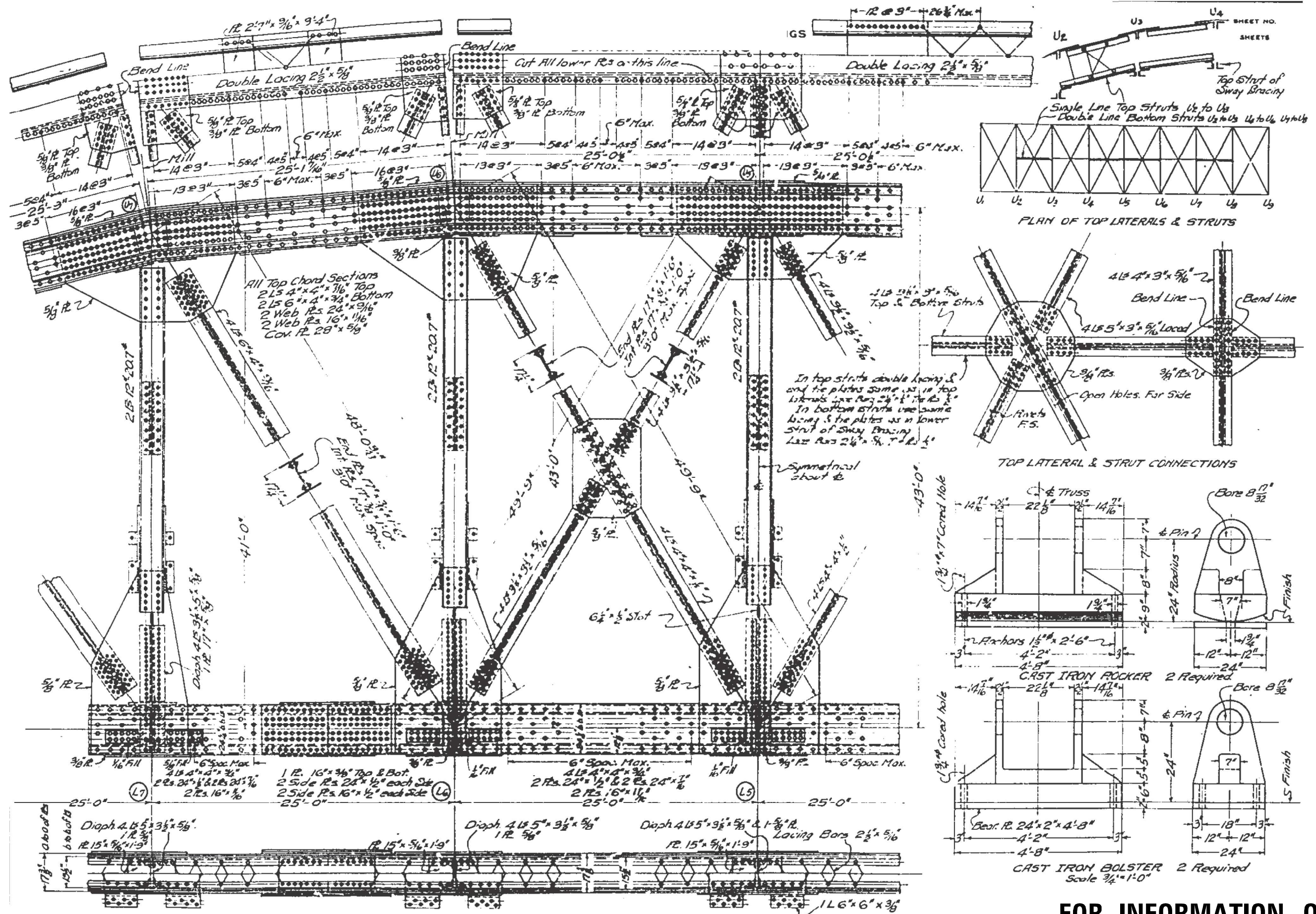
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TRUSS DETAILS, SN 016-0294</b>	
<b>ASHLAND AVE OVER CULUMET SAG CHANNEL</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 8
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				





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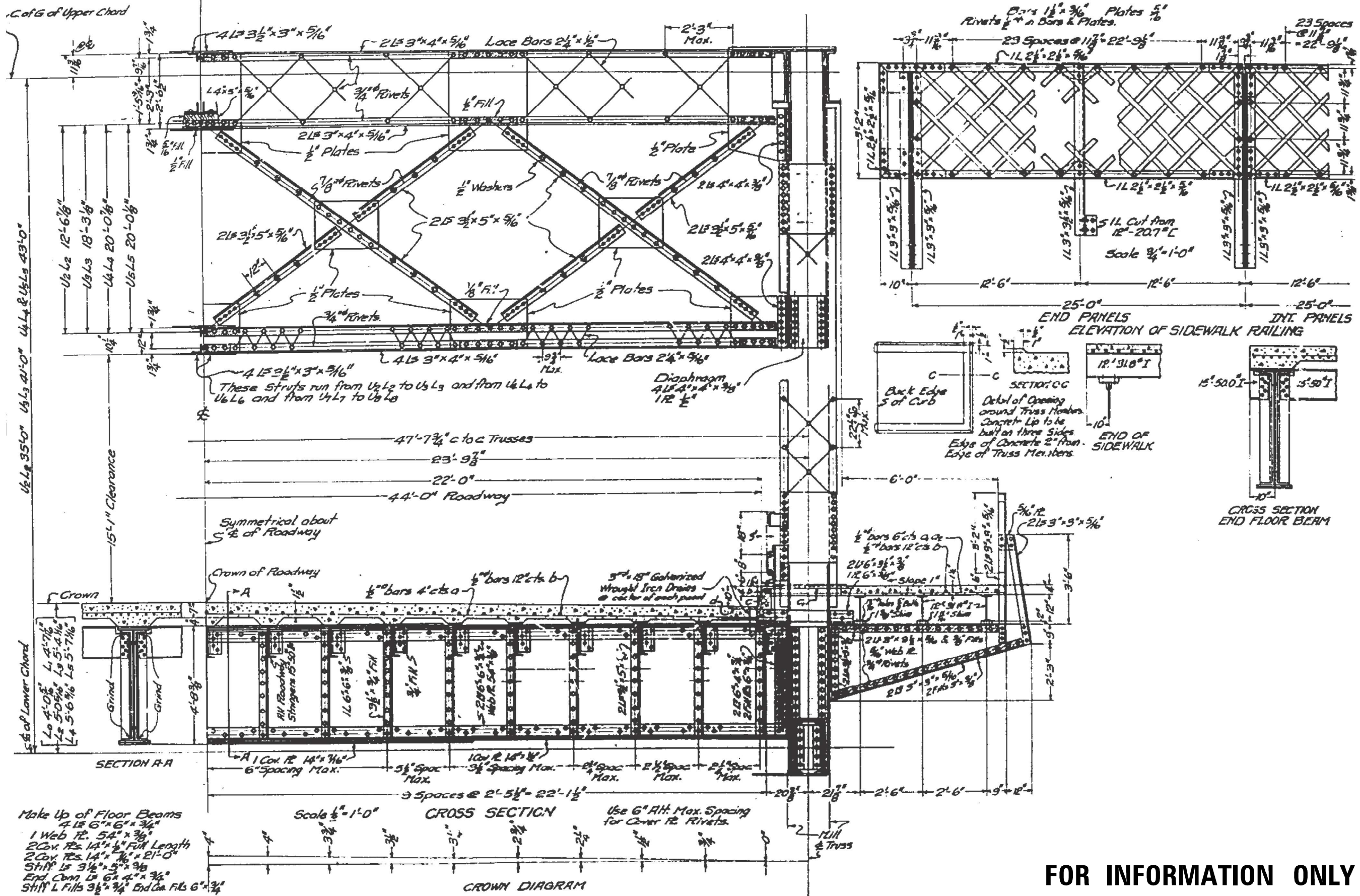
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRUSS DETAILS, SN 016-0294  
ASHLAND AVE OVER CULUMET SAG CHANNEL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P23	





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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.

CROWN DIAGRAM, SN 016-0294  
ASHLAND AVE OVER CULMET SAG CHANNEL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	10
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				



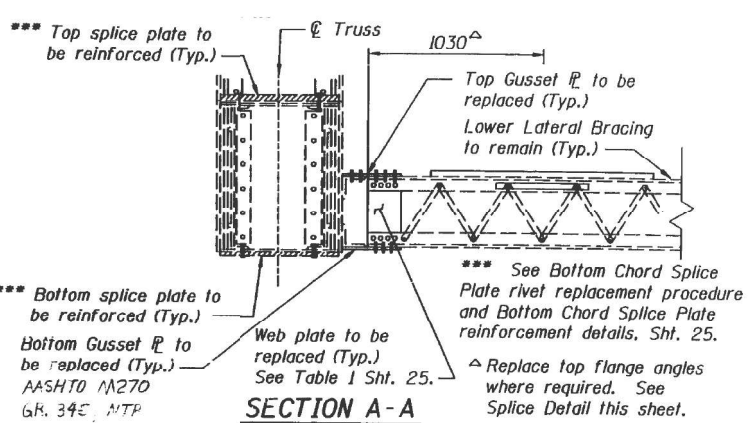
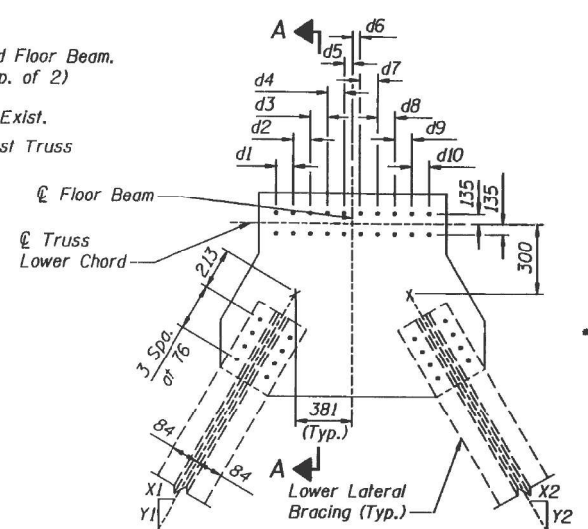
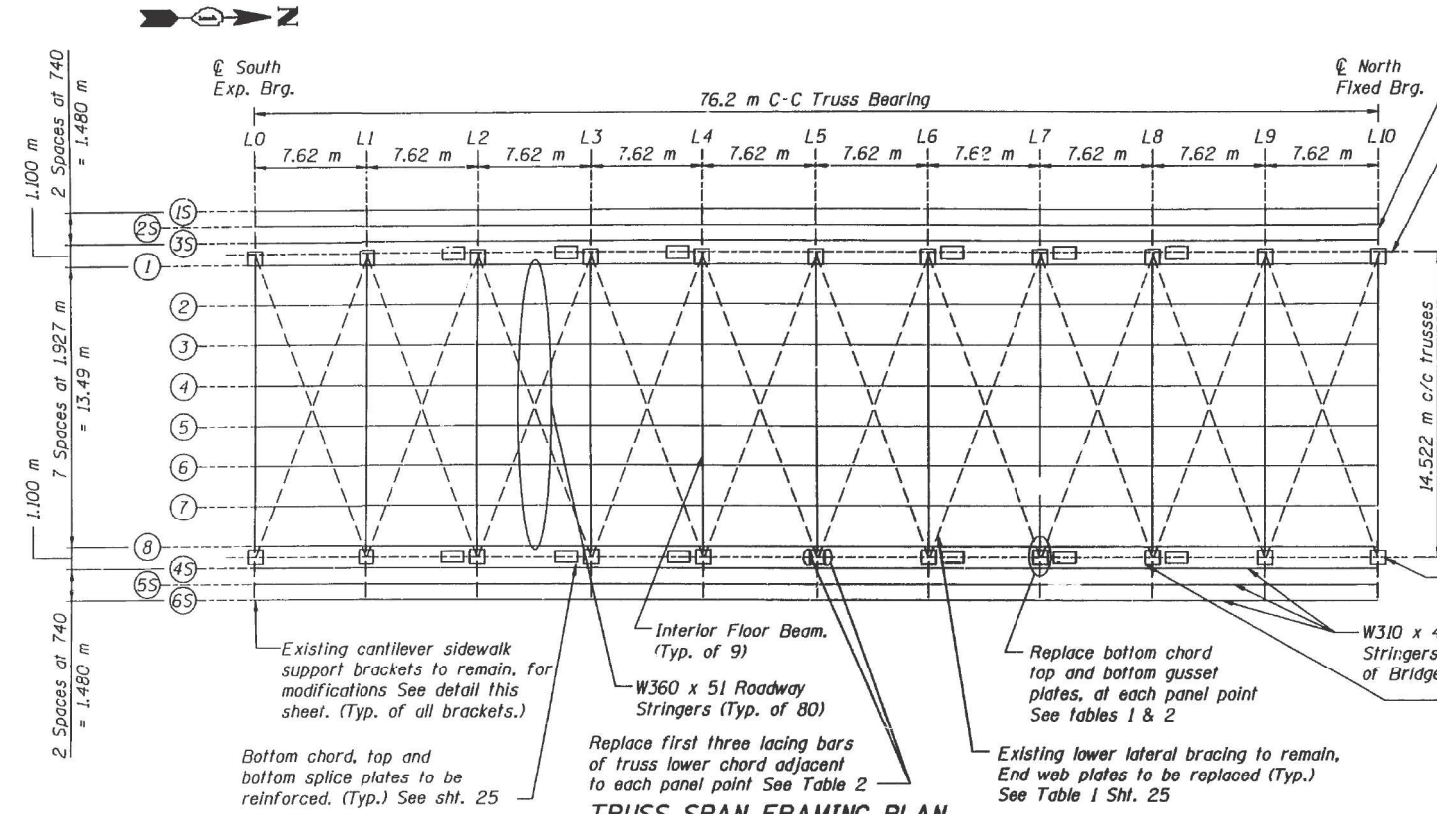


TABLE 1 BOTTOM CHORD TOP GUSSET PLATE REPLACEMENT (TYP. EACH TRUSS)

See Bottom Chord Top Gusset Plate Detail this sheet.

*DIAGONAL LOCATION	DIM		E TRUSS		W TRUSS		X	Y	GUSSET PLATE SIZE (NTR)
	a	b	top	bot	top	bot			
L0-L1	57	57	X	X	X	X	148	305	508x10x559
L10-L9	57	57	X	X	X	X	148	305	508x10x559
L1-L0	60	57	X				148	305	508x10x559
L9-L10	60	57			X		148	305	508x10x559
L1-L0	70	57			X		148	305	508x10x559
L1-L2	70	57	X		X		150	305	543x10x559
L2-L1	70	57	X		X		150	305	543x10x559
L2-L3	70	57	X		X		150	305	543x10x559
L3-L2	70	57	X		X		150	305	543x10x559
L3-L4	70	57	X		X		150	305	543x10x559
L4-L3	70	57	X		X		150	305	543x10x559
L4-L5	70	57	X		X		150	305	543x10x559
L5-L4	70	57	X		X		150	305	543x10x559
L5-L6	70	57	X		X		150	305	543x10x559
L6-L5	70	57	X		X		150	305	543x10x559
L6-L7	70	57	X		X		150	305	543x10x559
L7-L6	70	57	X		X		150	305	543x10x559
L7-L8	70	57	X		X		150	305	543x10x559
L8-L7	70	57	X		X		150	305	543x10x559
L8-L9	70	57	X		X		150	305	543x10x559
L9-L8	70	57	X		X		150	305	543x10x559
L9-L10	70	57	X		X		150	305	543x10x559
L10-L9	70	57	X		X		148	305	508x10x559

TABLE 2 BOTTOM CHORD LACING BAR REPLACEMENT

See Lacing Bar detail this sheet.

TYPE a 64 x 8 x 419  
 TYPE b 64 x 8 x 410  
 TYPE c 64 x 8 x 397

*PANEL POINT	NUMBER REQUIRED PER TRUSS		
	TYPE a	TYPE b	TYPE c
L0-L1	2	4	
L1-L0	2	4	
L1-L2	2	4	
L2-L1		6	
L2-L3		6	
L3-L2			6
L3-L4			6
L4-L3			6
L4-L5			6
L5-L4			6
L5-L6			6
L6-L5			6
L6-L7			6
L7-L6			6
L7-L8			6
L8-L7		6	
L8-L9		6	
L9-L8	2	4	
L9-L10	2	4	
L10-L9	2	4	
Subtotal E truss	12 (6 TOP 6 BOT)	48 (24 TOP 24 BOT)	60 (30 TOP 30 BOT)
Subtotal W truss	12 (6 TOP 6 BOT)	40 (24 TOP 16 BOT)	60 (30 TOP 30 BOT)
TOTAL	24	96	120

\* First panel point indicates location, second panel point indicates direction.

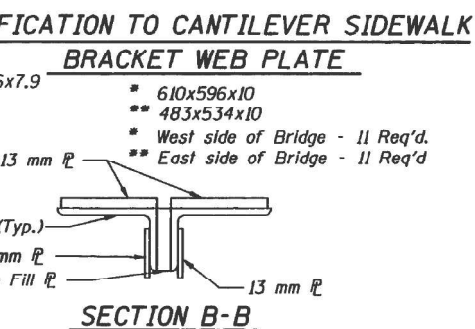
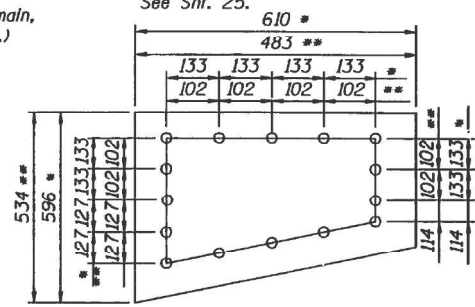
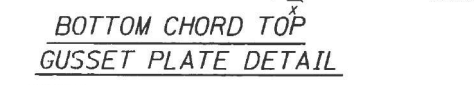
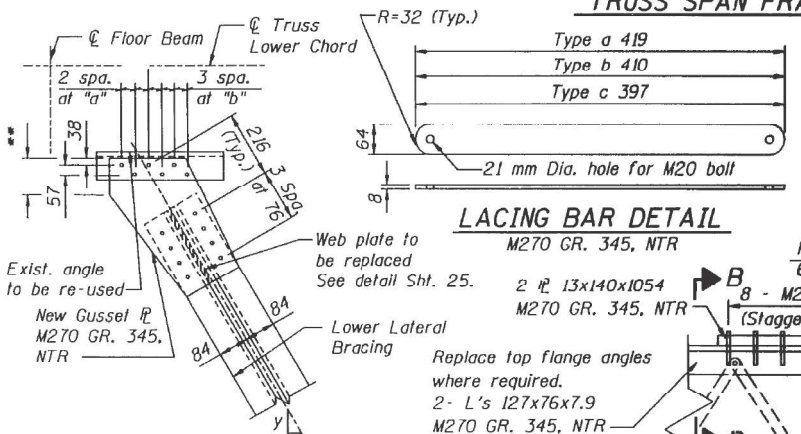


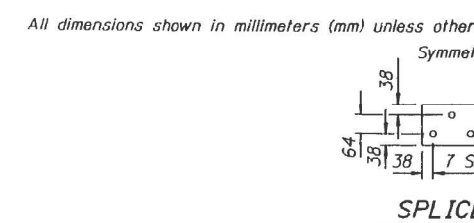
TABLE 3 BOTTOM CHORD BOTTOM GUSSET PLATE REPLACEMENT (TYP. EACH TRUSS)

See Bottom Chord Bottom Gusset Plate Detail this sheet.

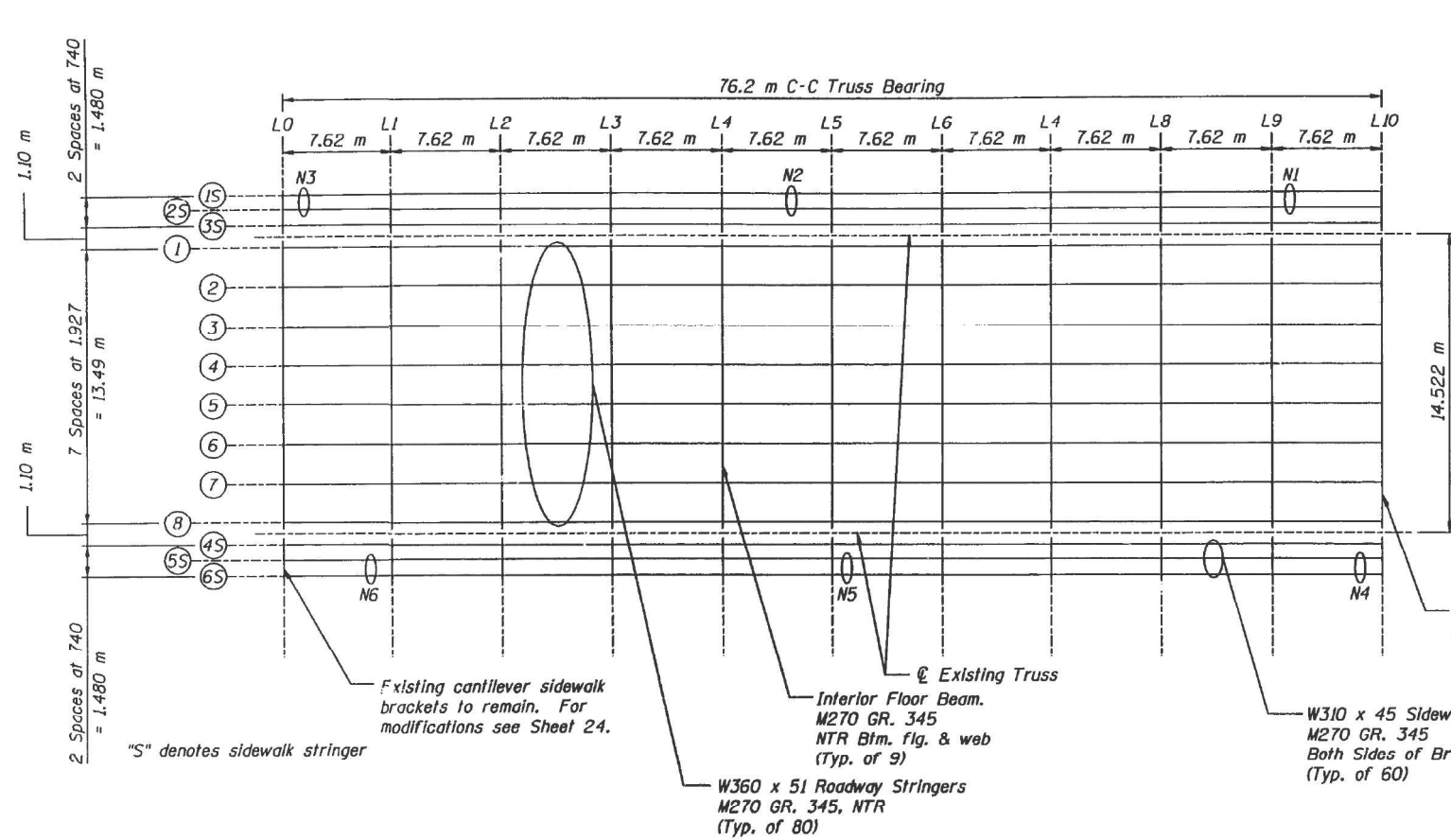
PANEL POINT	BOLT SPACING - d										X1	Y1	X2	Y2	GUSSET PLATE DIMENSIONS (NTR)
	1	2	3	4	5	6	7	8	9	10					
L1, L9	152	152	117	102	64	64	102	117	152	168	6756	13922	6858	13922	991x10x1270
L2, L8	152	130	116	94	64	64	140	152	76	152	6858	13922	6858	13922	991x10x1422
L3, L7	121	152	152	102	64	64	127	127	121	121	6858	13922	6858	13922	953x10x1384
L4, L6	152	152	114	103	64	64	108	127	152	152	6858	13922	6858	13922	965x10x1384
L5	152	152	127	108	64	64	108	127	152	152	6858	13922	6858	13922	965x10x1384



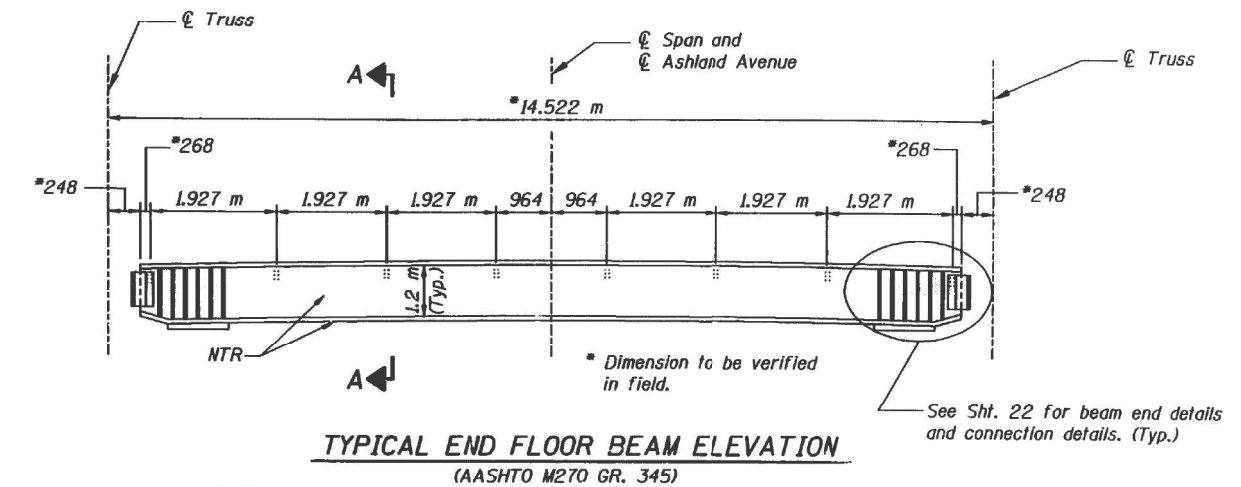
NOTES:  
 "NTR" denotes members to which supplementary requirements for notch toughness zone 2 are applicable.  
 New replacement gusset plates, web plates, strut angles, and lacing bars to match existing in shape, size, and hole location. Contractor to verify existing dimensions and bolt spacings.  
 See Sht. 25 for Bill of Material.



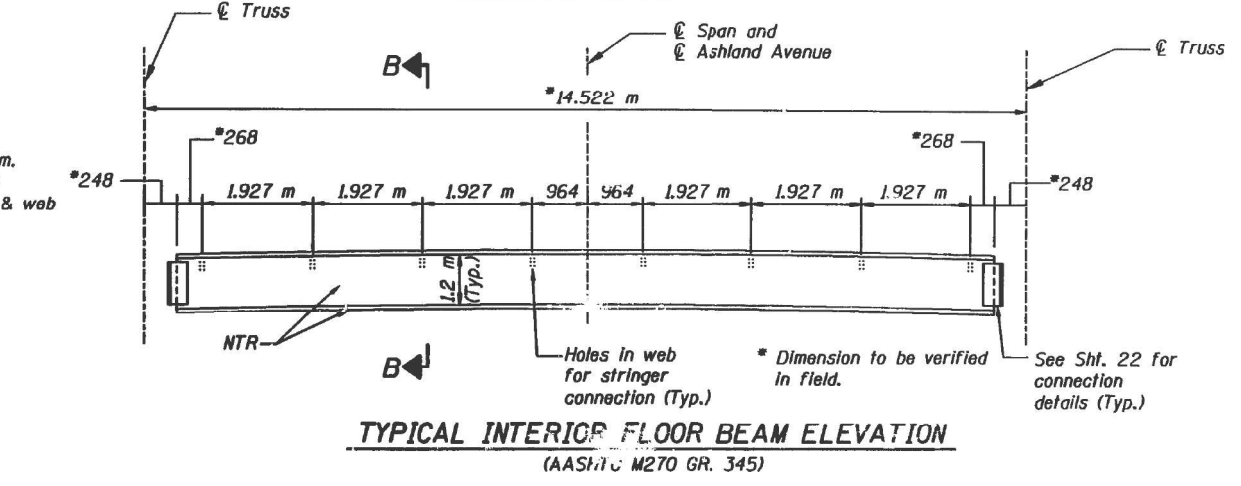




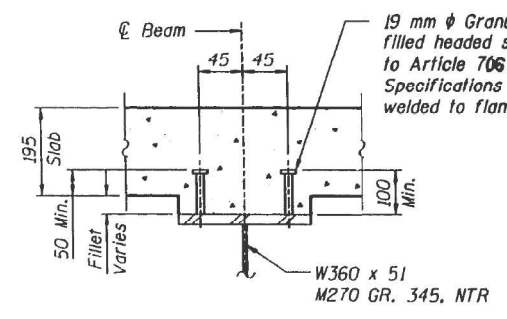
**TRUSS SPAN FRAMING PLAN**



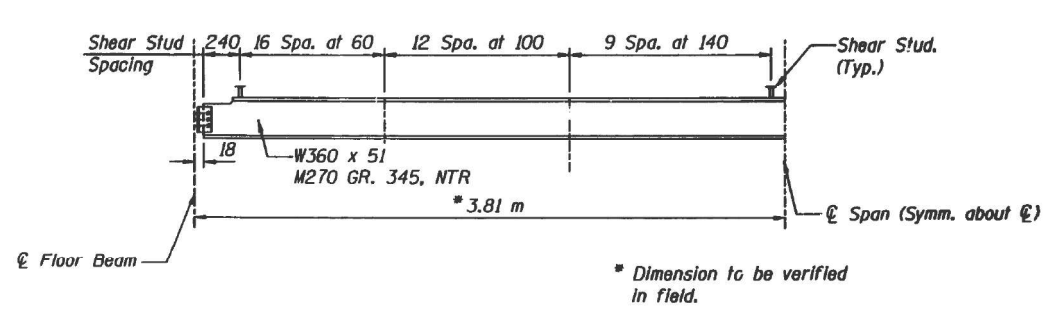
**TYPICAL END FLOOR BEAM ELEVATION**  
(AASHTO M270 GR. 345)



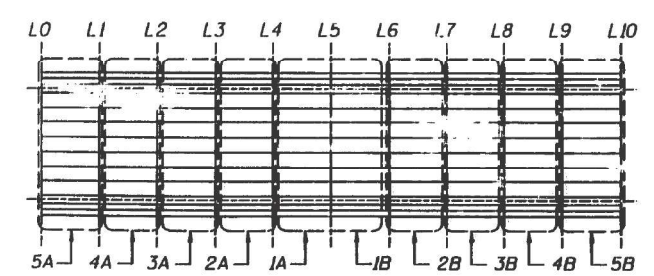
**TYPICAL INTERIOR FLOOR BEAM ELEVATION**  
(AASHTO M270 GR. 345)



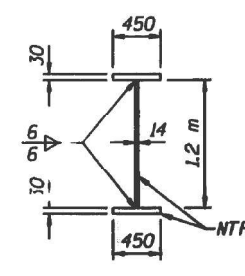
**SHEAR STUD DETAIL**



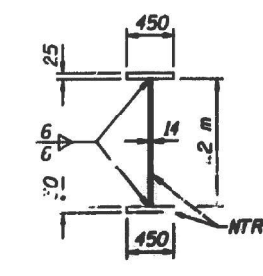
**TYPICAL STRINGER HALF ELEVATION**



**CONSTRUCTION SEQUENCE FOR DECK FRAMING REPLACEMENT**



**SECTION A-A**



**SECTION B-B**

**FOR INFORMATION ONLY**

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	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

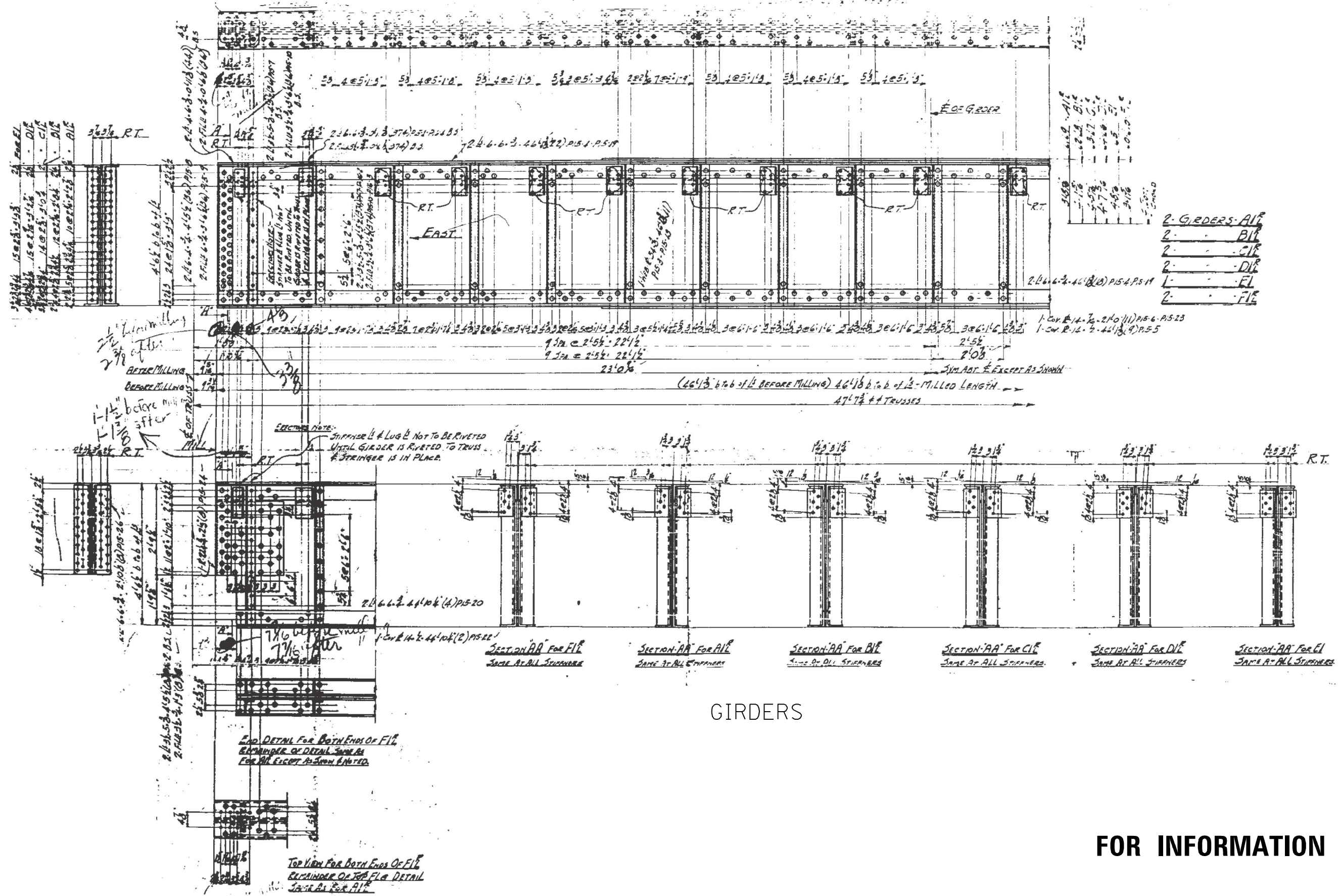
<b>TRUSS SPAN DETAILS, SN 016-0294</b>	
<b>ASHLAND AVE OVER CULMET SAG CHANNEL</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	11A
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				









**FOR INFORMATION ONLY**

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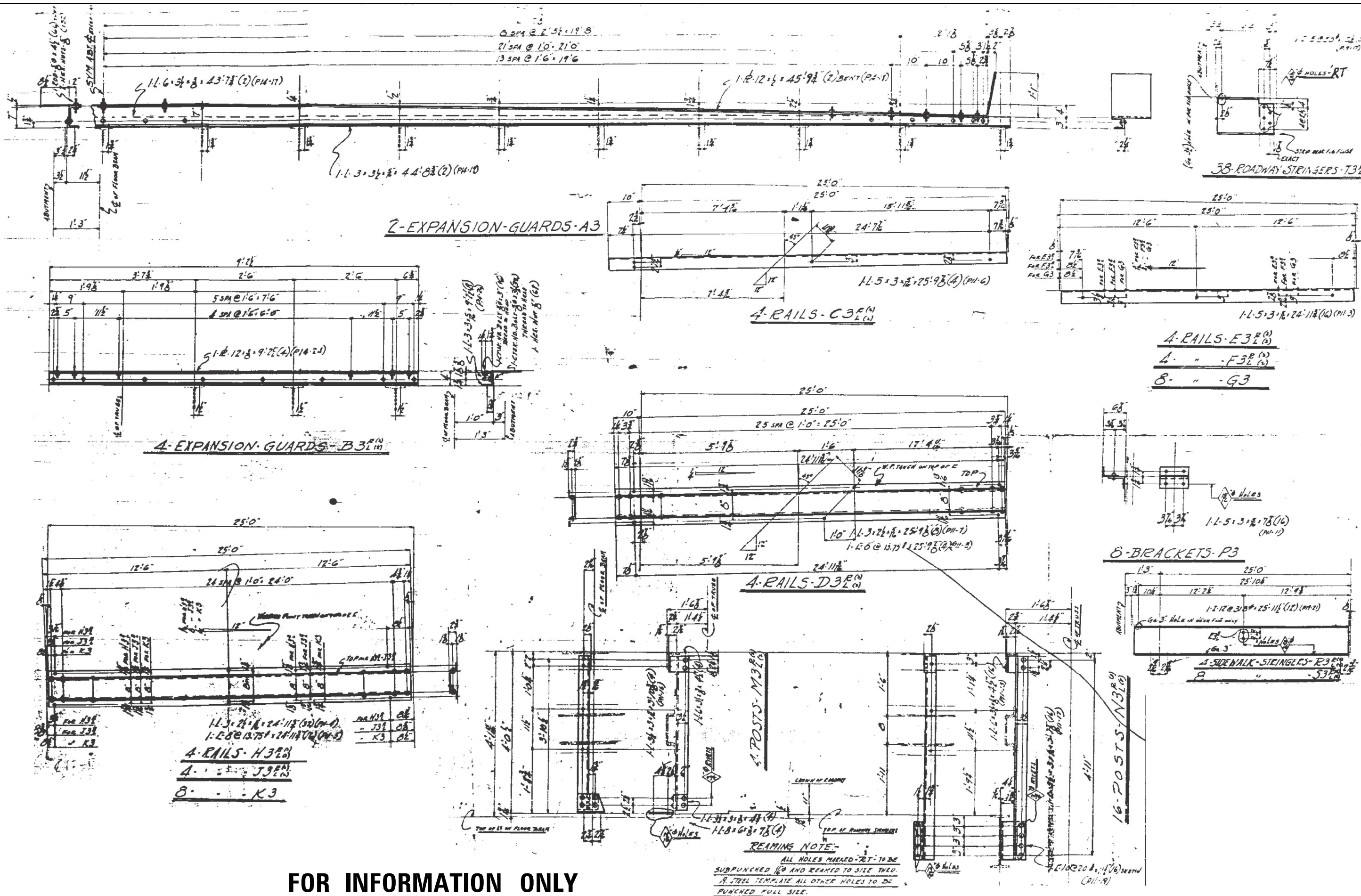
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
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TRUSS SPAN DETAILS, SN 016-0294  
ASHLAND AVE OVER CULMET SAG CHANNEL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	13
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				





**FOR INFORMATION ONLY**

USER NAME = gorengautab	DESIGNED -	REVISED -
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PLOT DATE = 10/19/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

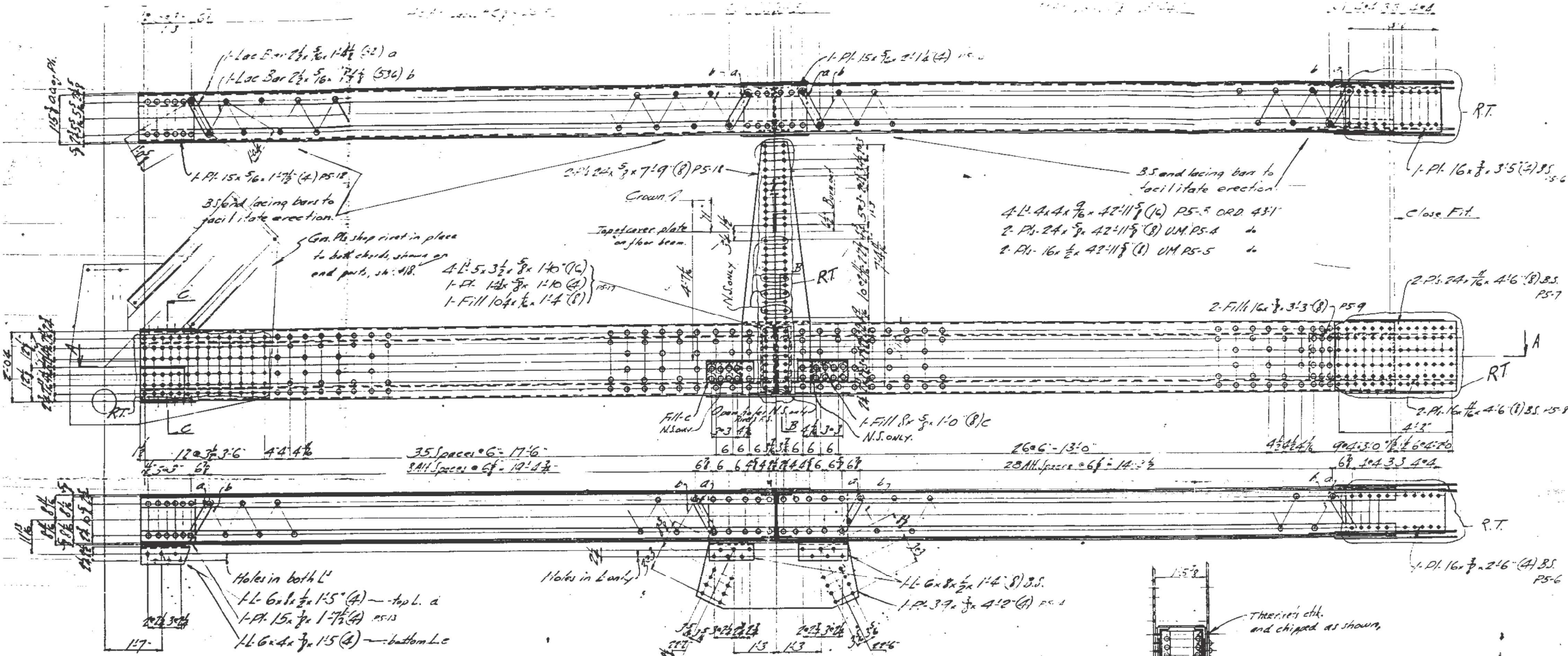
**TRUSS SPAN DETAILS, SN 016-0294  
 ASHLAND AVE OVER CULUMET SAG CHANNEL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P23	

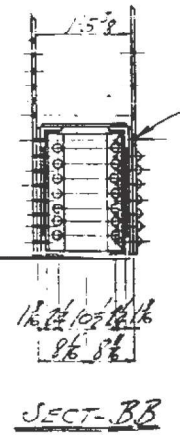
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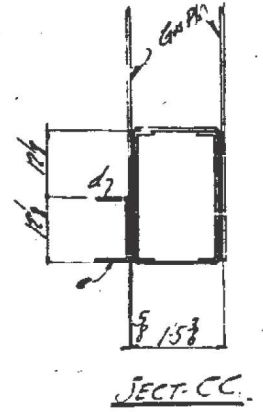


**SECT-AA**

2 BOTTOM CHORDS - 10-12<sup>R</sup>  
 2 - - - - - 11-12<sup>R</sup> } Details Alike.



**SECT-BB**



**SECT-CC**

PAINT SHOP 1-Coat sublimed blue lead.  
 FIELD 11-Coat white lead (sintered)  
 2<sup>nd</sup> Coat white lead.

**FOR INFORMATION ONLY**

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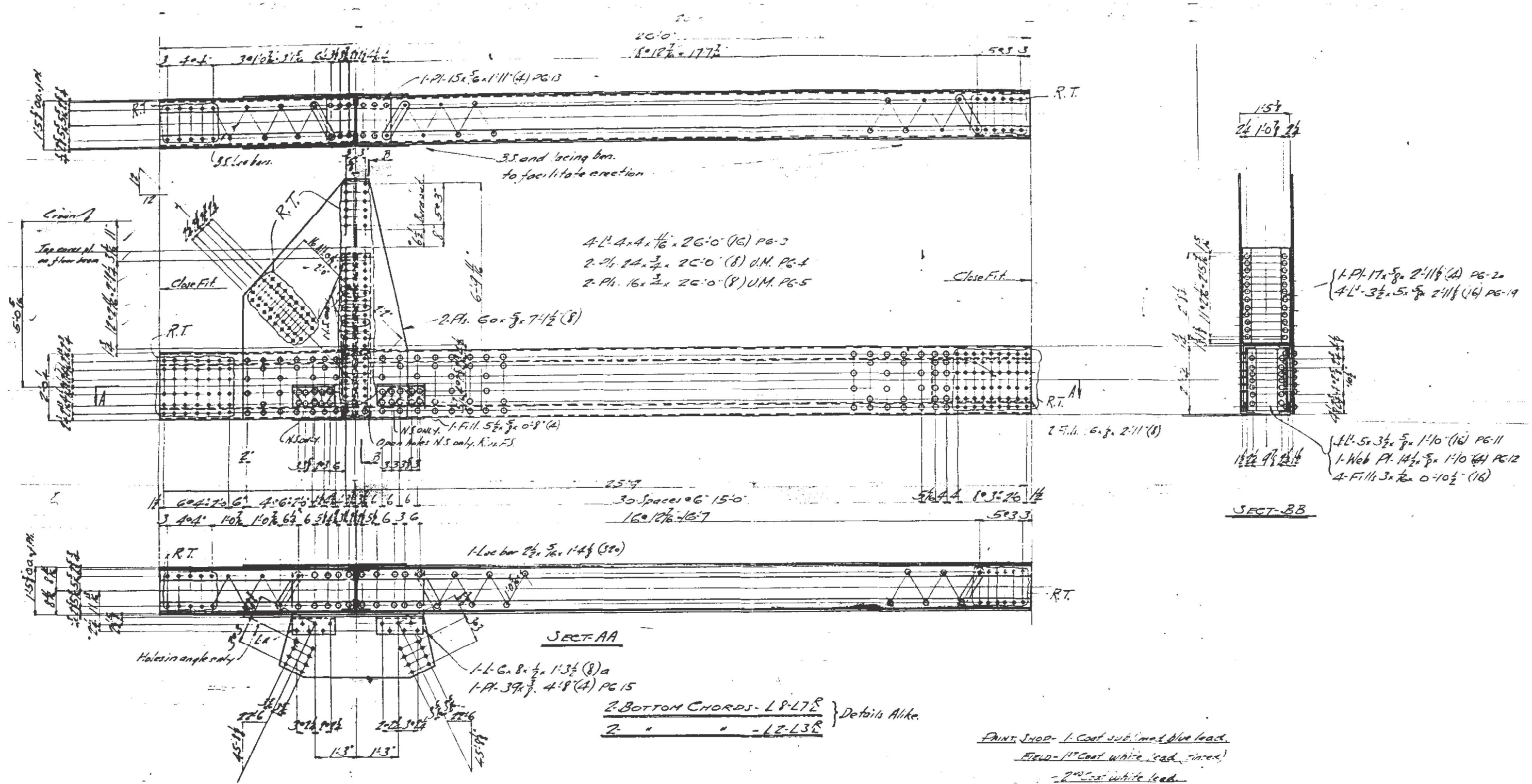
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TRUSS SPAN DETAILS, SN 016-0294</b>			
<b>ASHLAND AVE OVER CULUMET SAG CHANNEL</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P23	







**FOR INFORMATION ONLY**

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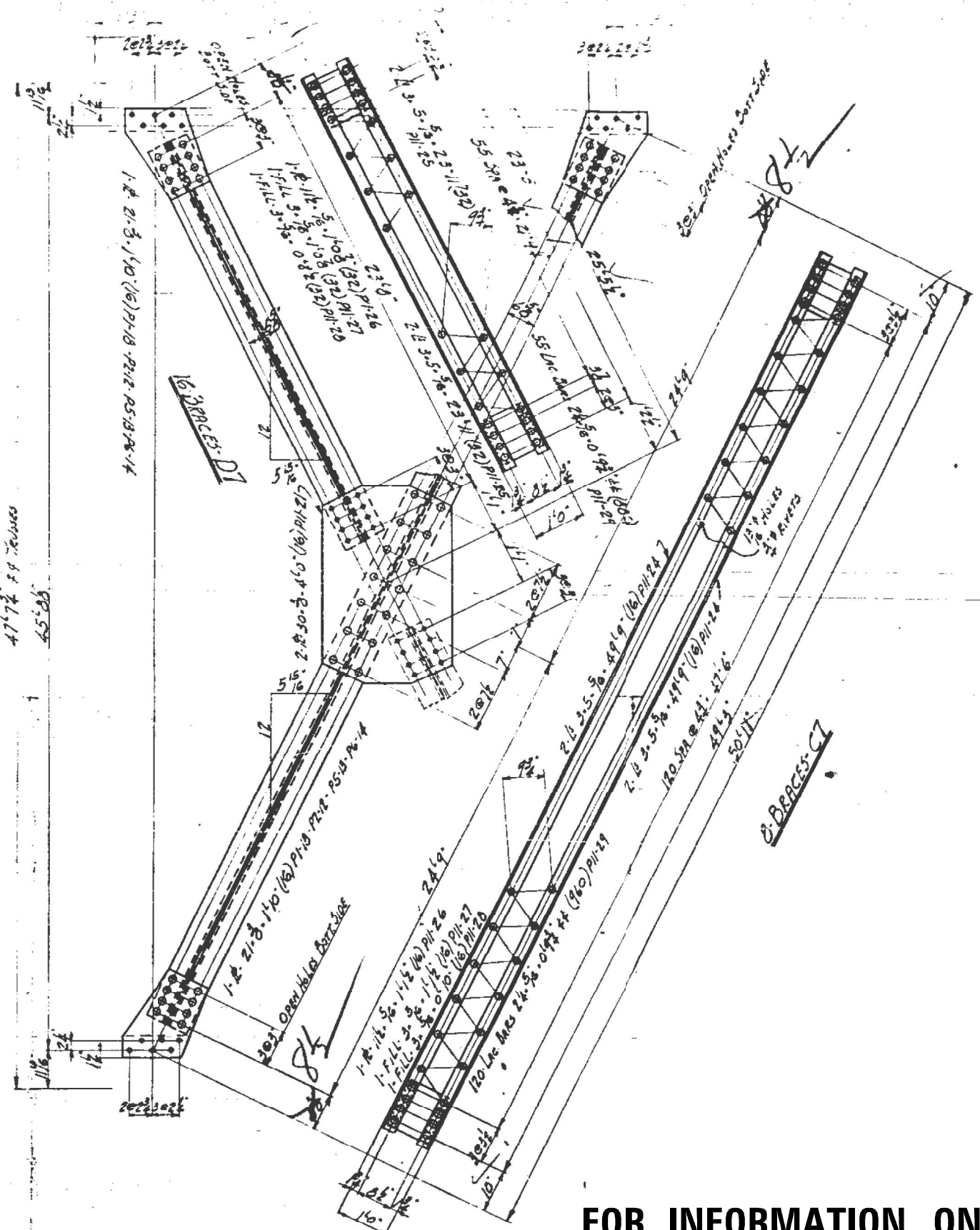
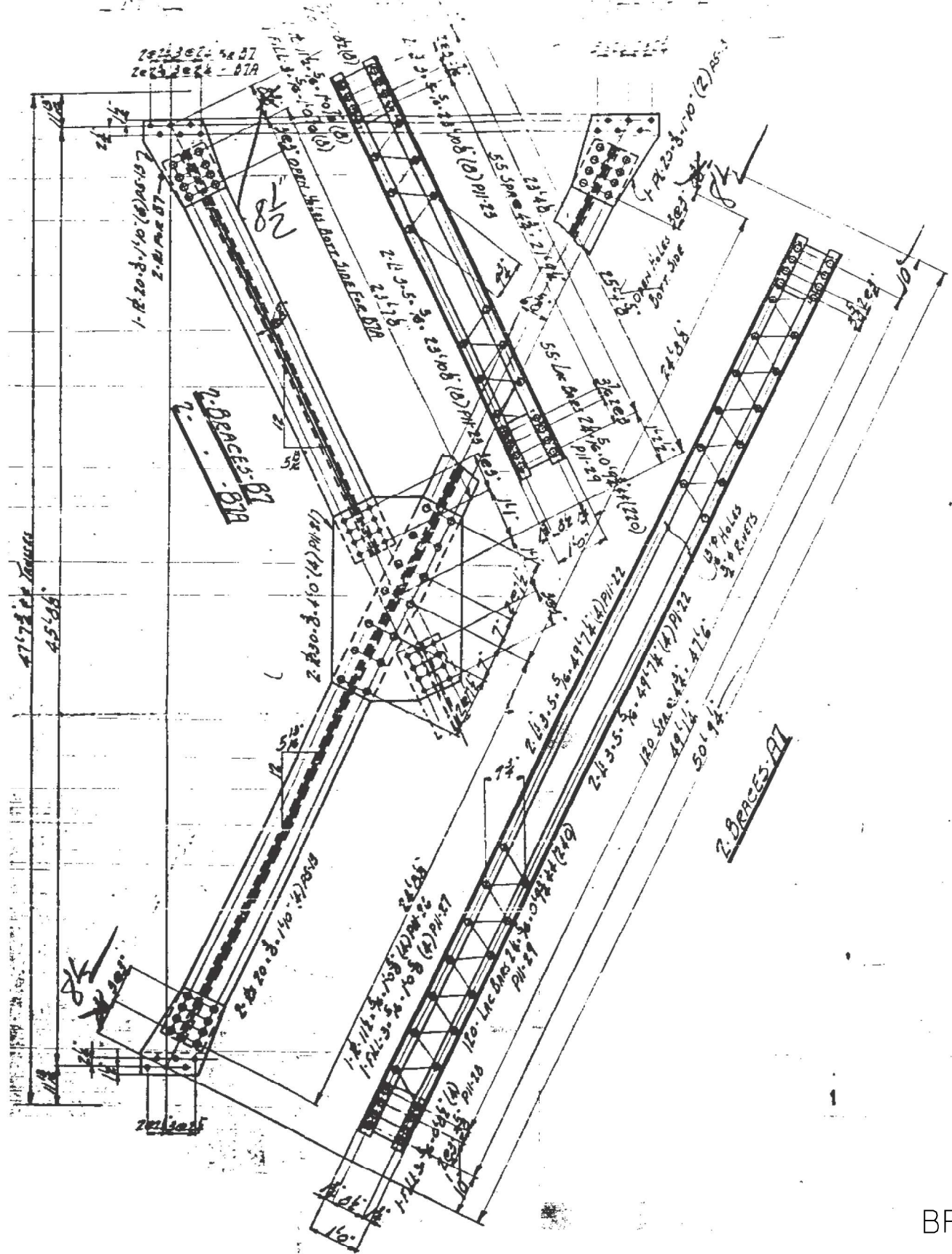
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
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TRUSS SPAN DETAILS, SN 016-0294  
ASHLAND AVE OVER CULMET SAG CHANNEL

F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 17
			CONTRACT NO. 62P23	
		ILLINOIS FED. AID PROJECT		





BRACES

FOR INFORMATION ONLY

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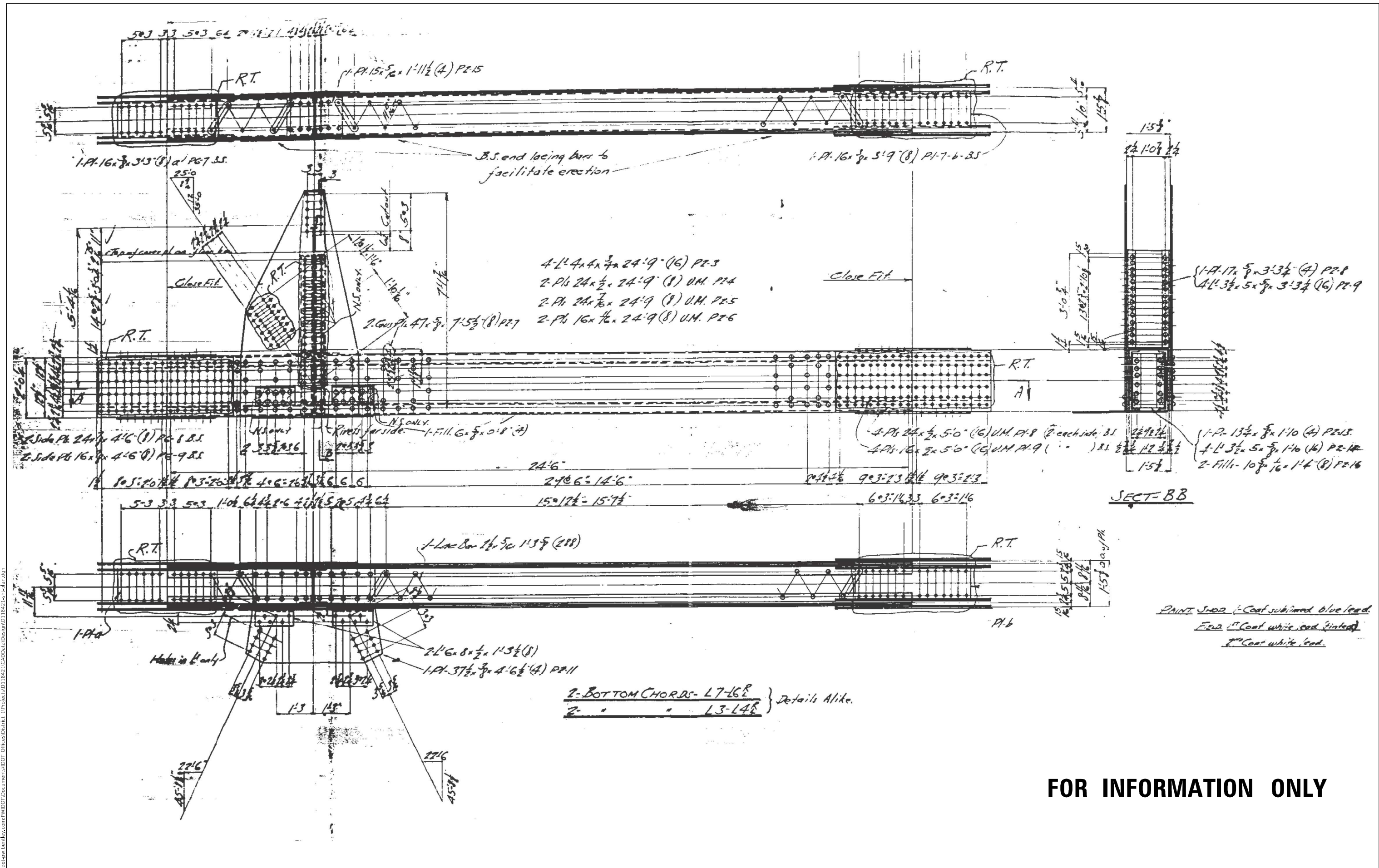
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRUSS SPAN DETAILS, SN 016-0294			
ASHLAND AVE OVER CULUMET SAG CHANNEL			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	18
CONTRACT NO. 62P23				
ILLINOIS		FED. AID PROJECT		





STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

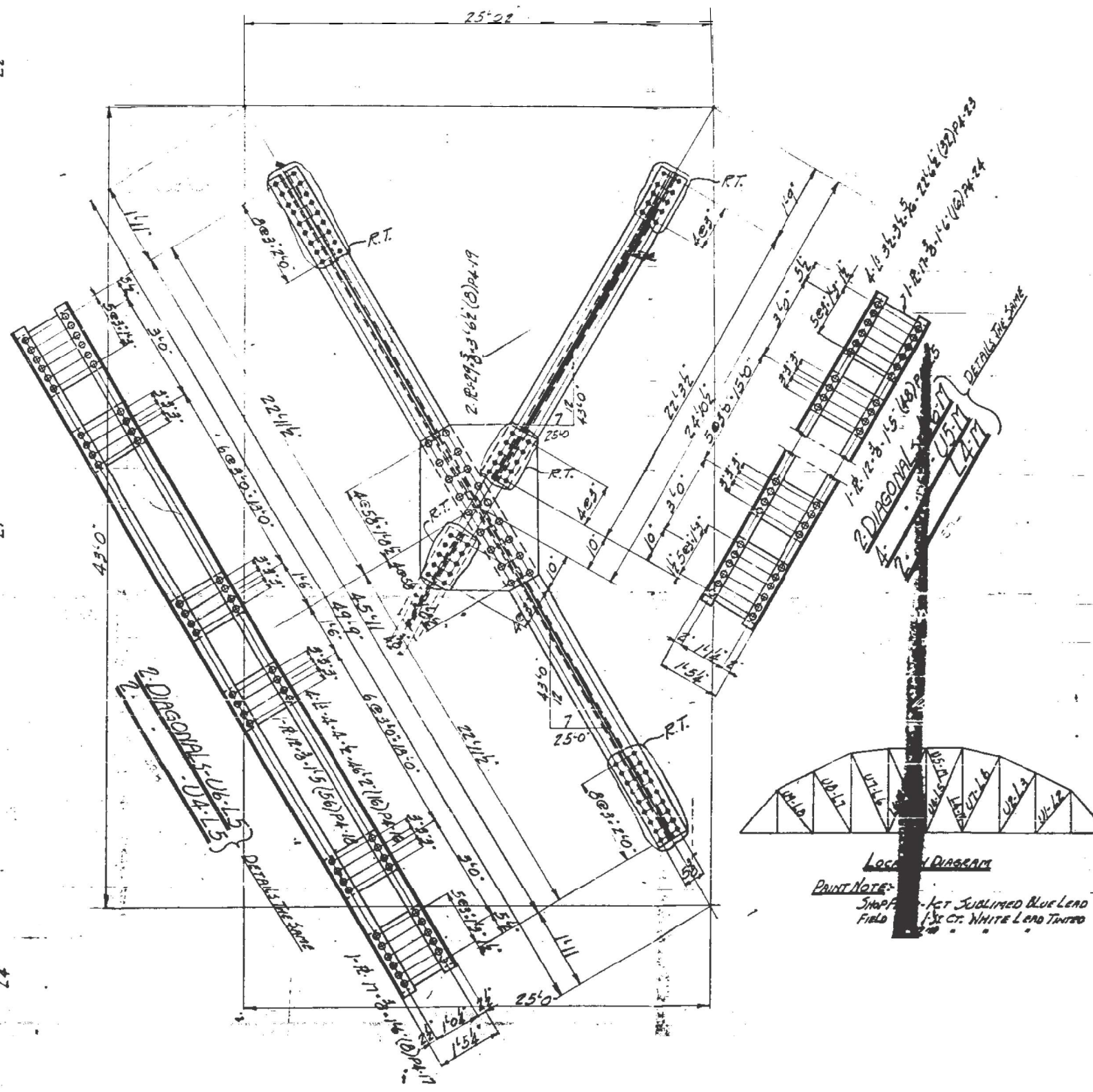
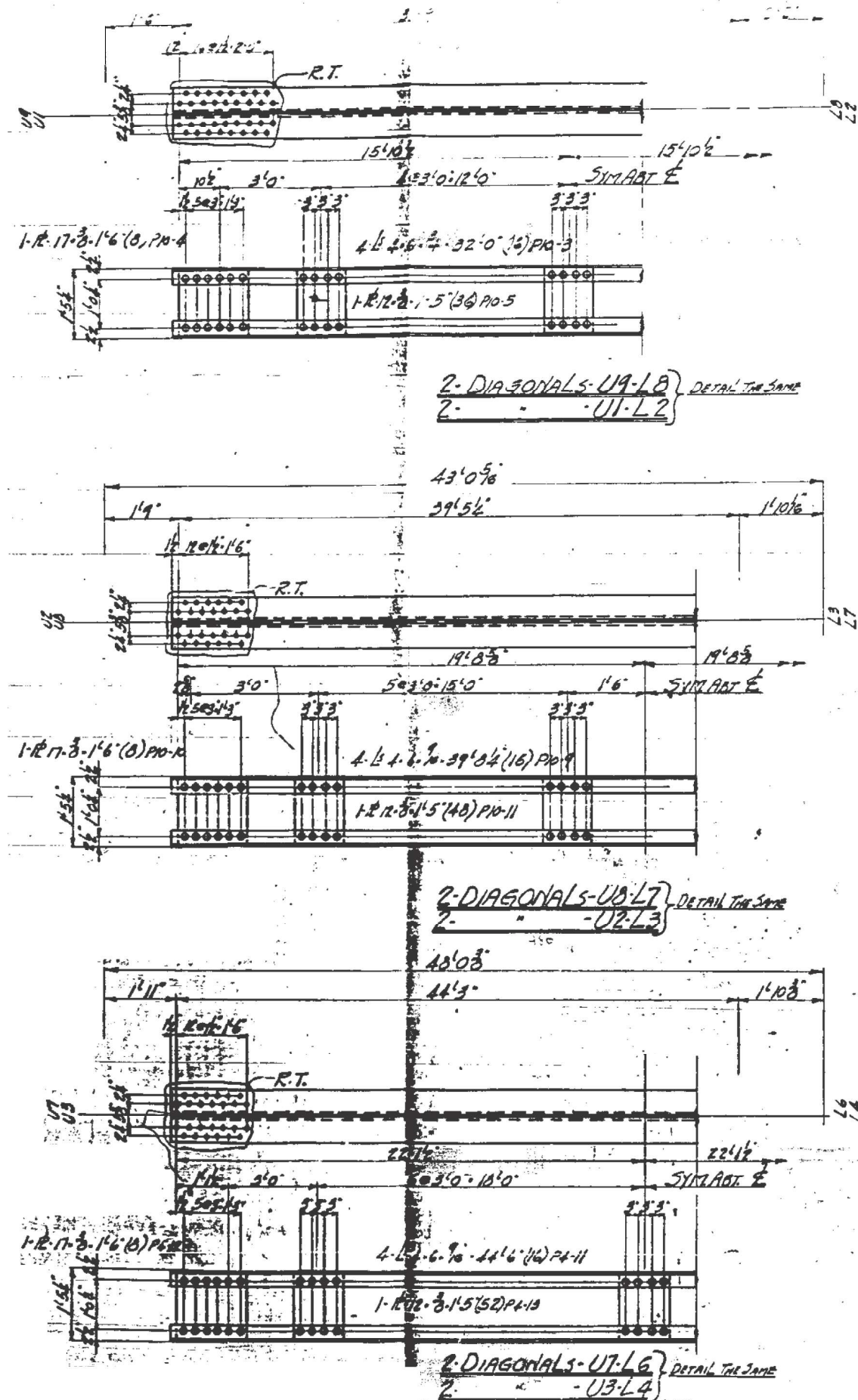
TRUSS SPAN DETAILS, SN 016-0294  
ASHLAND AVE OVER CULUMET SAG CHANNEL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	19
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY**

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**FOR INFORMATION ONLY**

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DRAWN -	REVISOR -	
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PLOT DATE = 10/19/2021	DATE -	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRUSS SPAN DETAILS, SN 016-0294  
ASHLAND AVE OVER CULMET SAG CHANNEL

SCALE: SHEET OF SHEETS STA. TO STA.

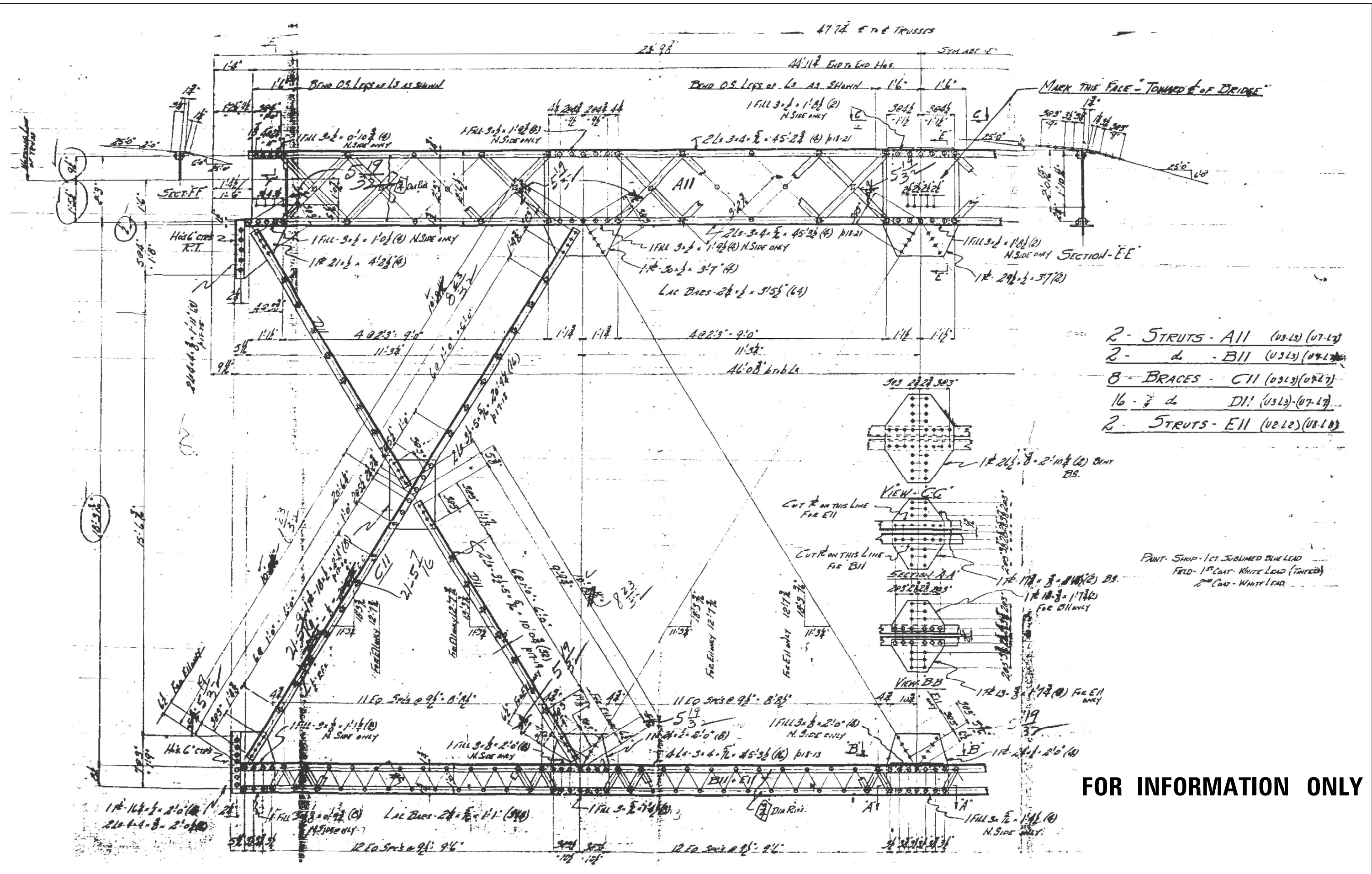
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2857	2021-095-BP	COOK	38	20
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				



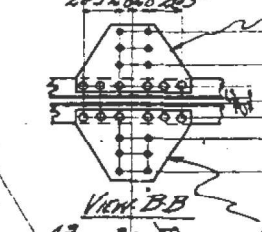
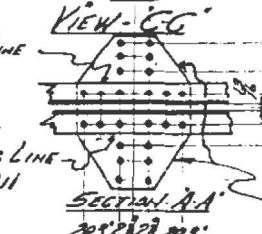
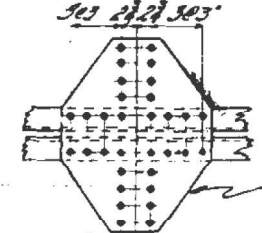




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 PLOT DATE = 10/19/2021



- 2 - STRUTS - A11 (03-13) (07-13)
- 2 - d - B11 (03-13) (07-13)
- 8 - BRACES - C11 (03-13) (07-13)
- 16 - d - D11 (03-13) (07-13)
- 2 - STRUTS - E11 (03-13) (07-13)



PAINT: SHOP - 1 CT. JOLIMED BLUE LEAD  
 FIELD - 1<sup>ST</sup> COAT - WHITE LEAD (TINTED)  
 2<sup>ND</sup> COAT - WHITE LEAD

**FOR INFORMATION ONLY**

USER NAME = gorengautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 10/19/2021	DATE -	REVISED -

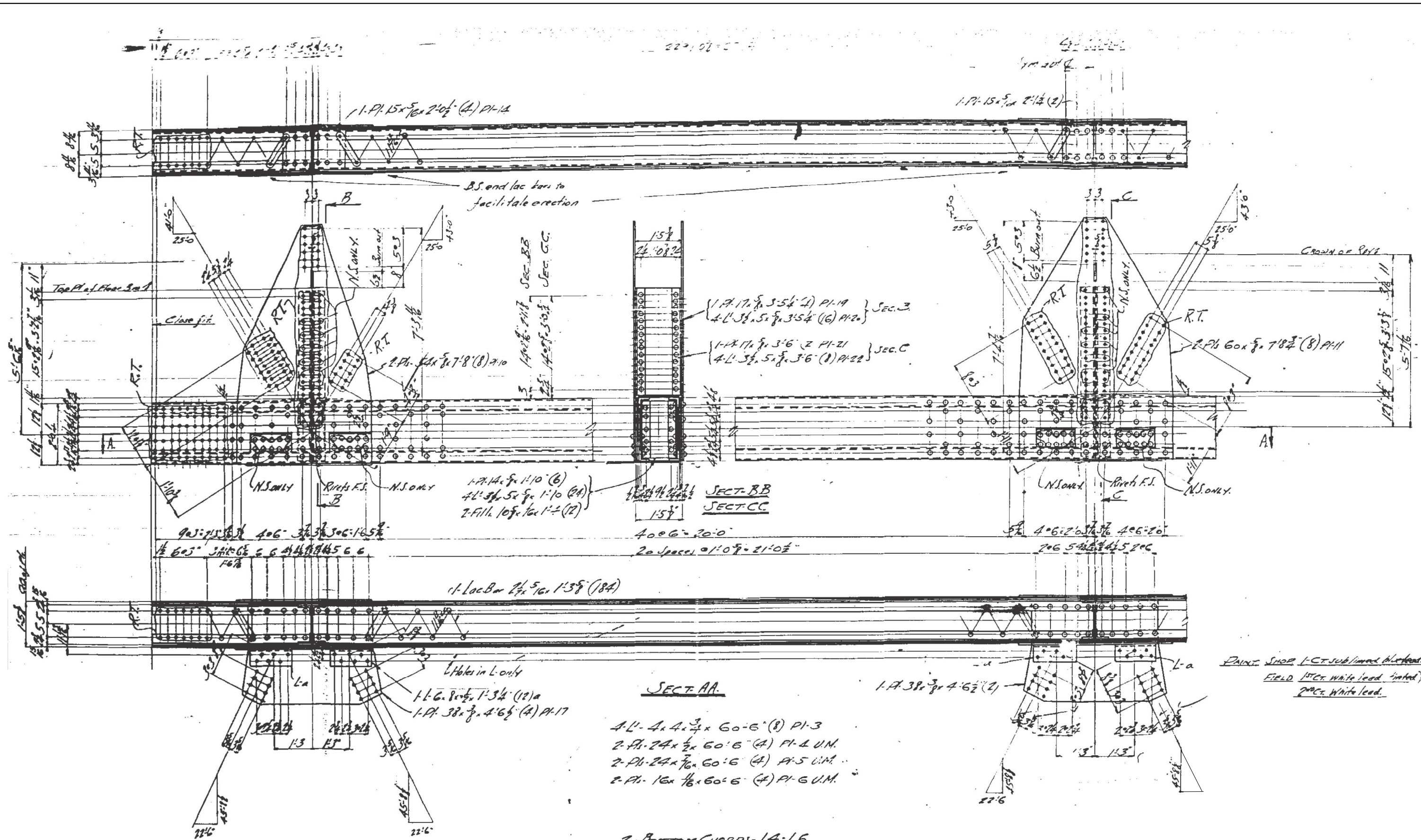
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRUSS SPAN DETAILS, SN 016-0294  
 ASHLAND AVE OVER CULUMET SAG CHANNEL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	22
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				





**FOR INFORMATION ONLY**

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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
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TRUSS SPAN DETAILS, SN 016-0294  
ASHLAND AVE OVER CULUMET SAG CHANNEL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	23
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				





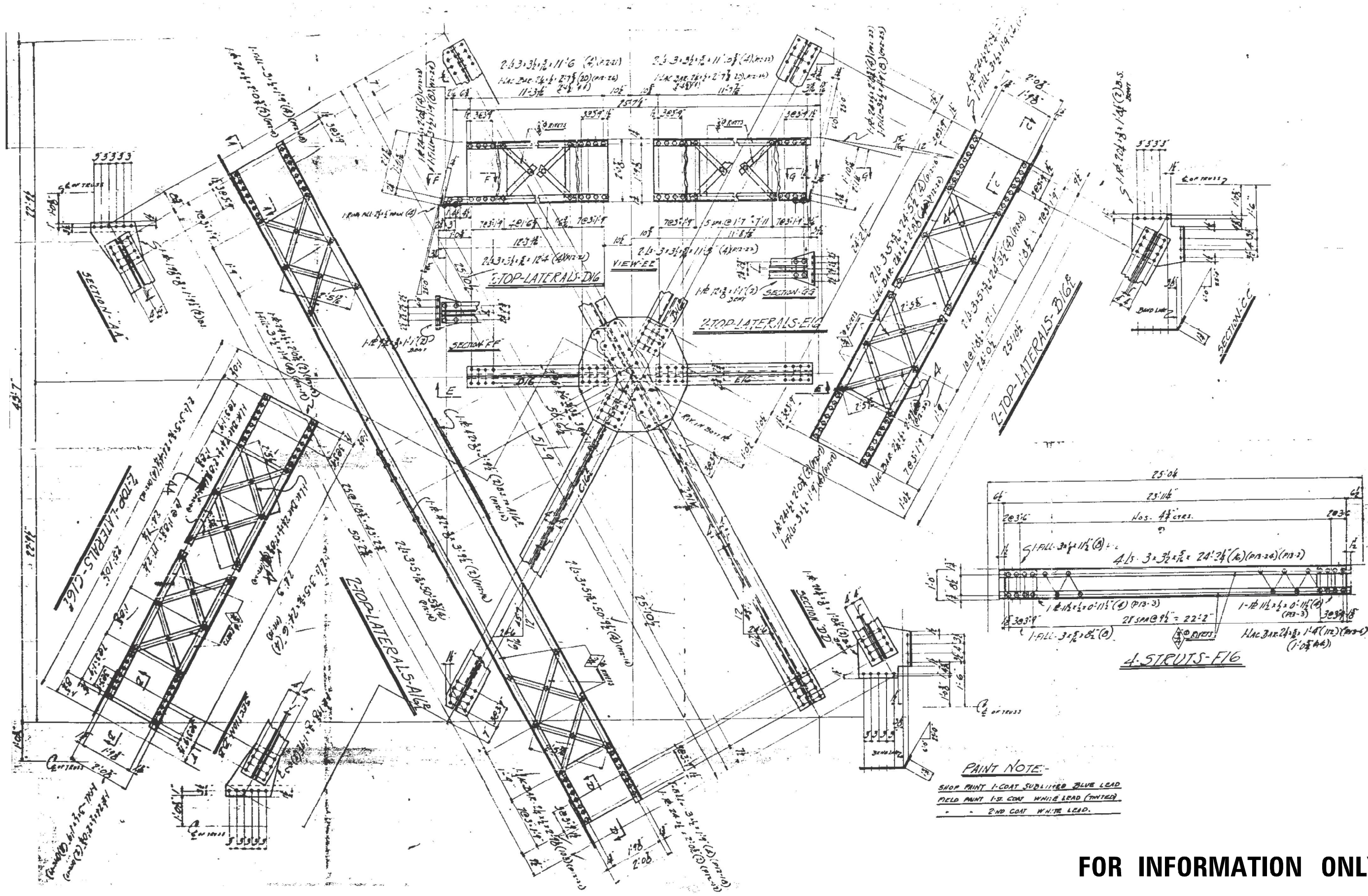












**FOR INFORMATION ONLY**

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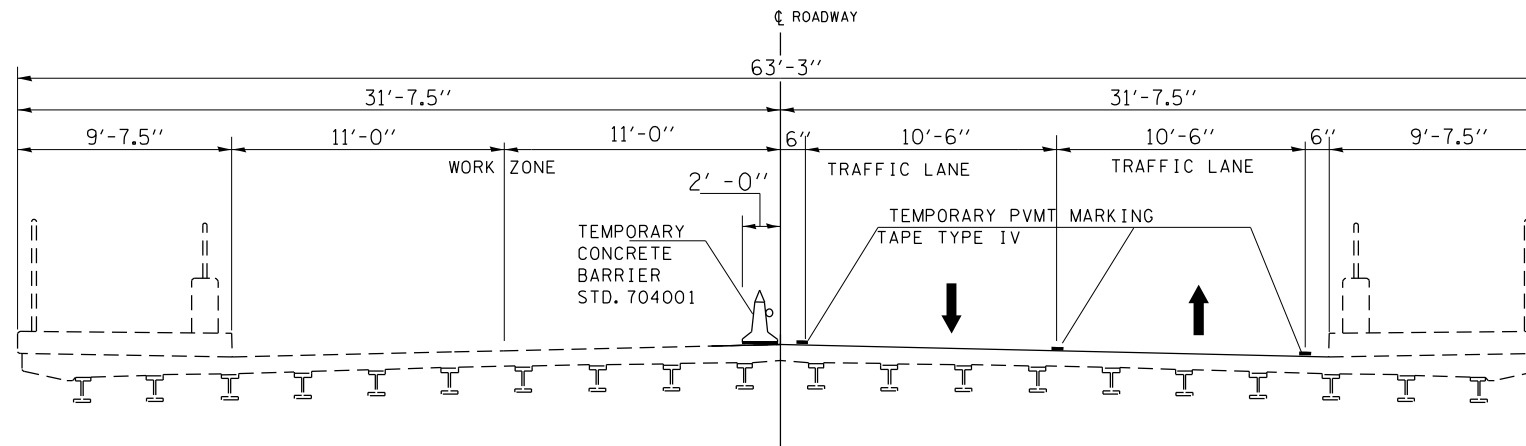
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRUSS SPAN DETAILS, SN 016-0294  
 ASHLAND AVE OVER CULMET SAG CHANNEL**

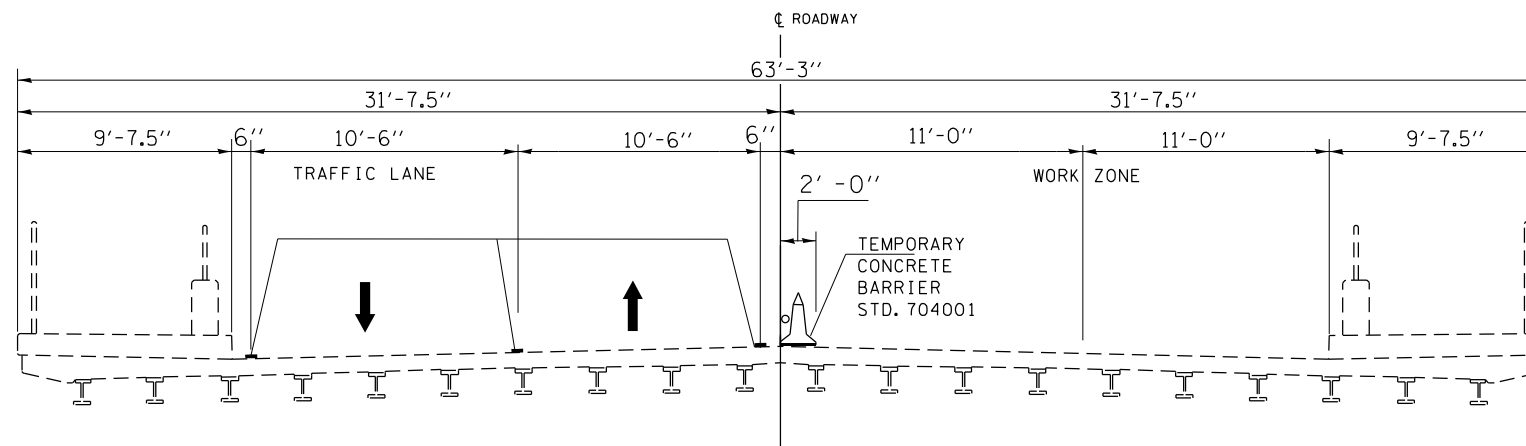
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	27
CONTRACT NO. 62P23			ILLINOIS FED. AID PROJECT	

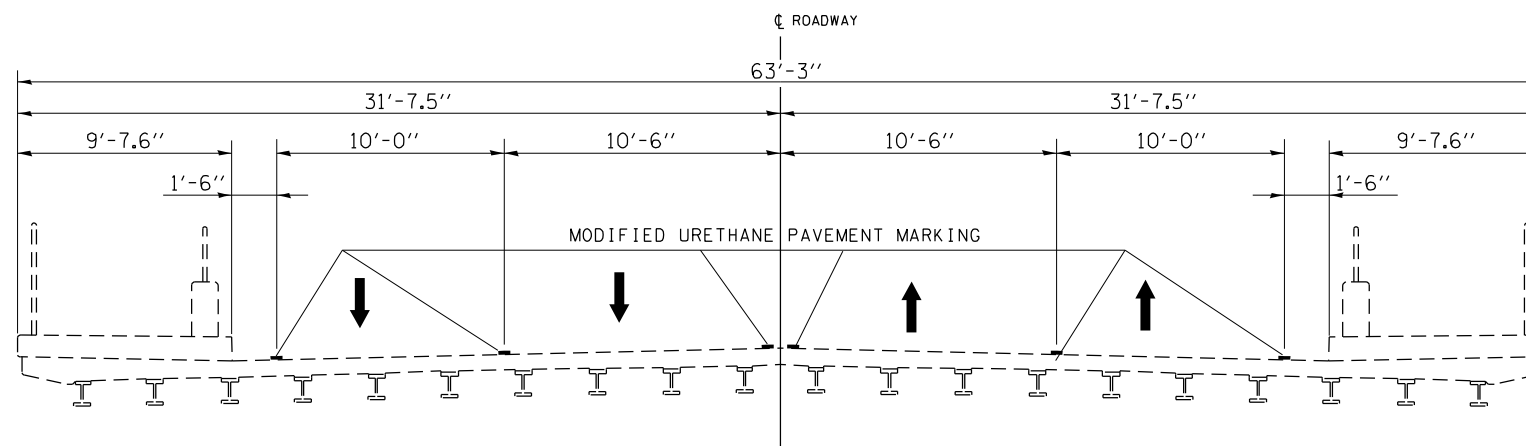




**STAGE 1 CONSTRUCTION**  
(LOOKING NORTH)

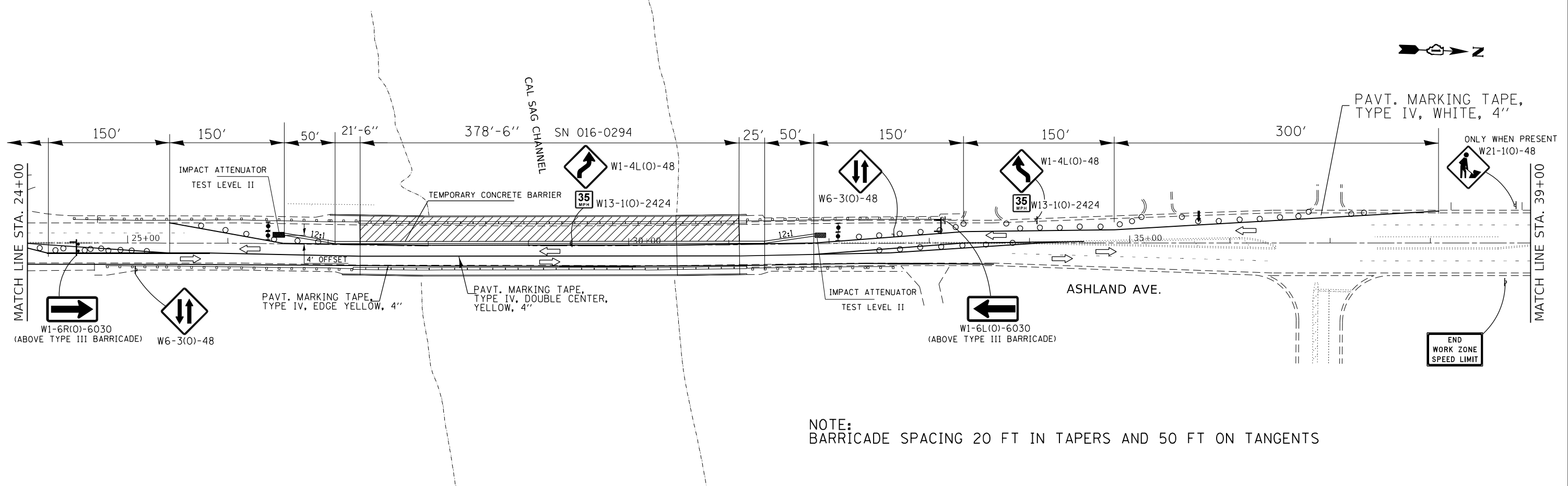
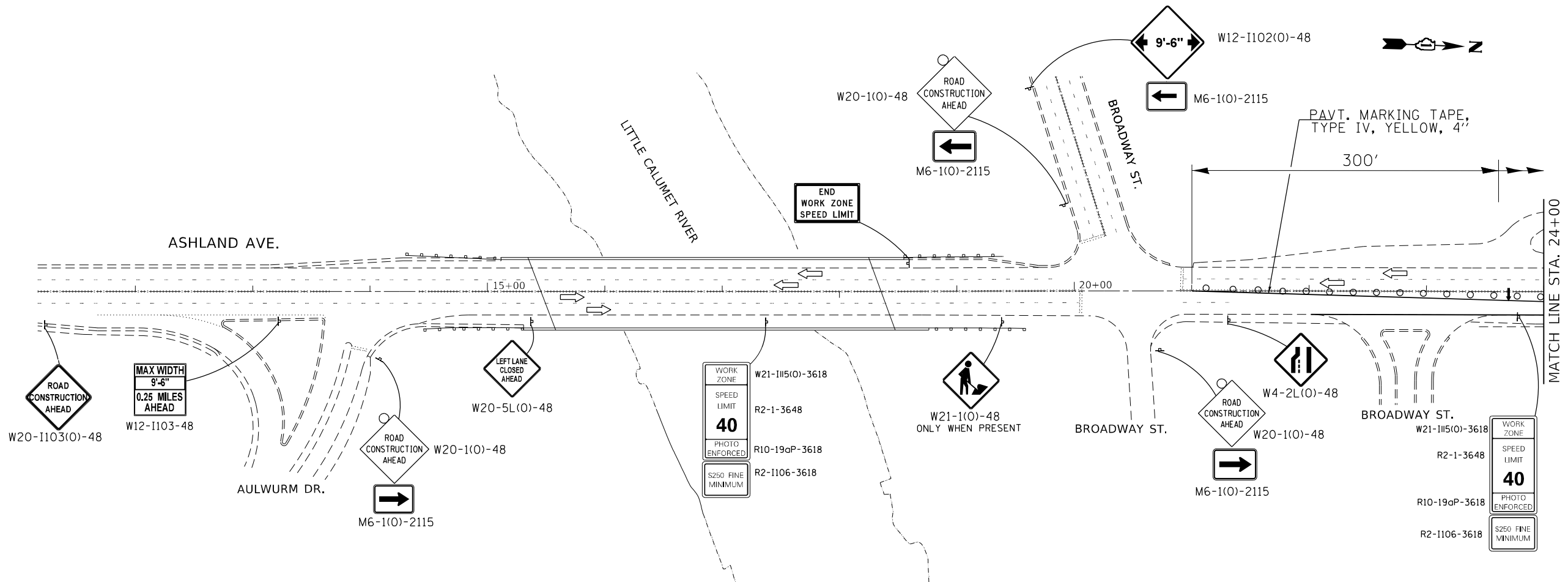
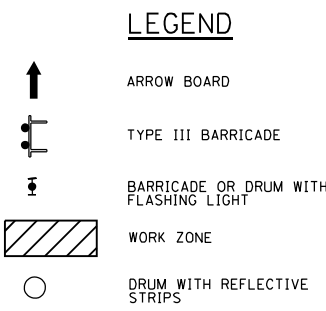


**STAGE 2 CONSTRUCTION**  
(LOOKING NORTH)



**FINAL CROSS SECTION**  
(LOOKING NORTH)





NOTE:  
BARRICADE SPACING 20 FT IN TAPERS AND 50 FT ON TANGENTS

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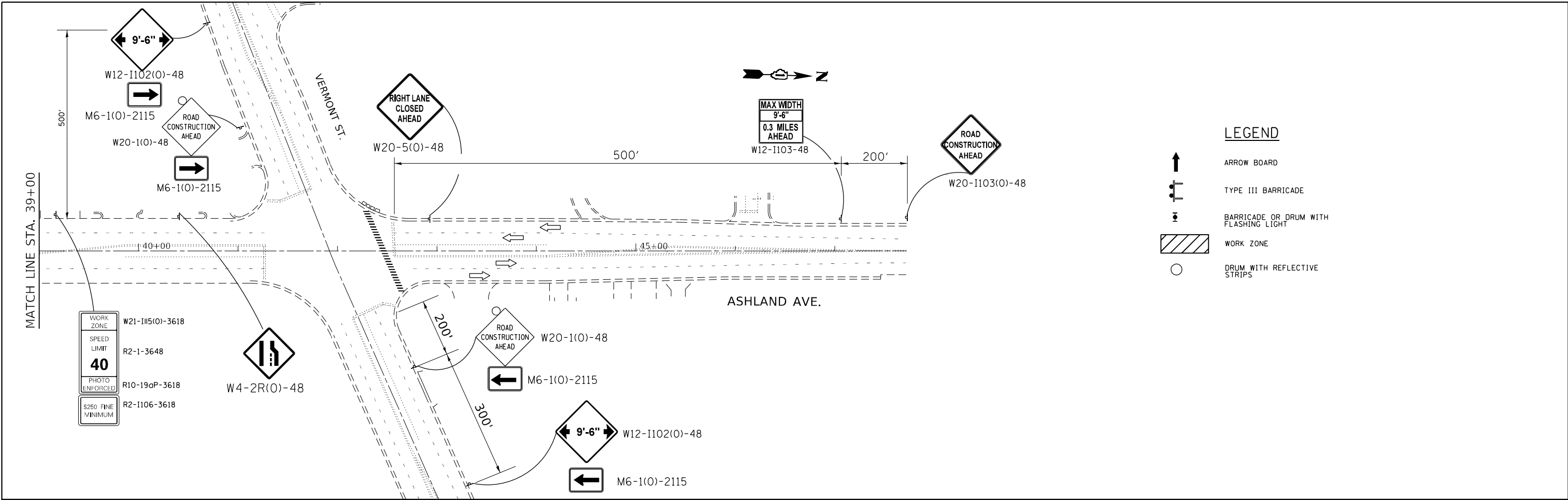
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**






<b>MAINTENANCE OF TRAFFIC (STAGE 1)</b>	
<b>ASHLAND AVENUE OVER CALUMET SAG CHANNEL</b>	
SCALE: 1"=50'	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	GOOK	38	29
CONTRACT NO. 62P23			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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PLOT DATE = 10/19/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC (STAGE 1)  
ASHLAND AVENUE OVER CALUMET SAG CHANNEL**

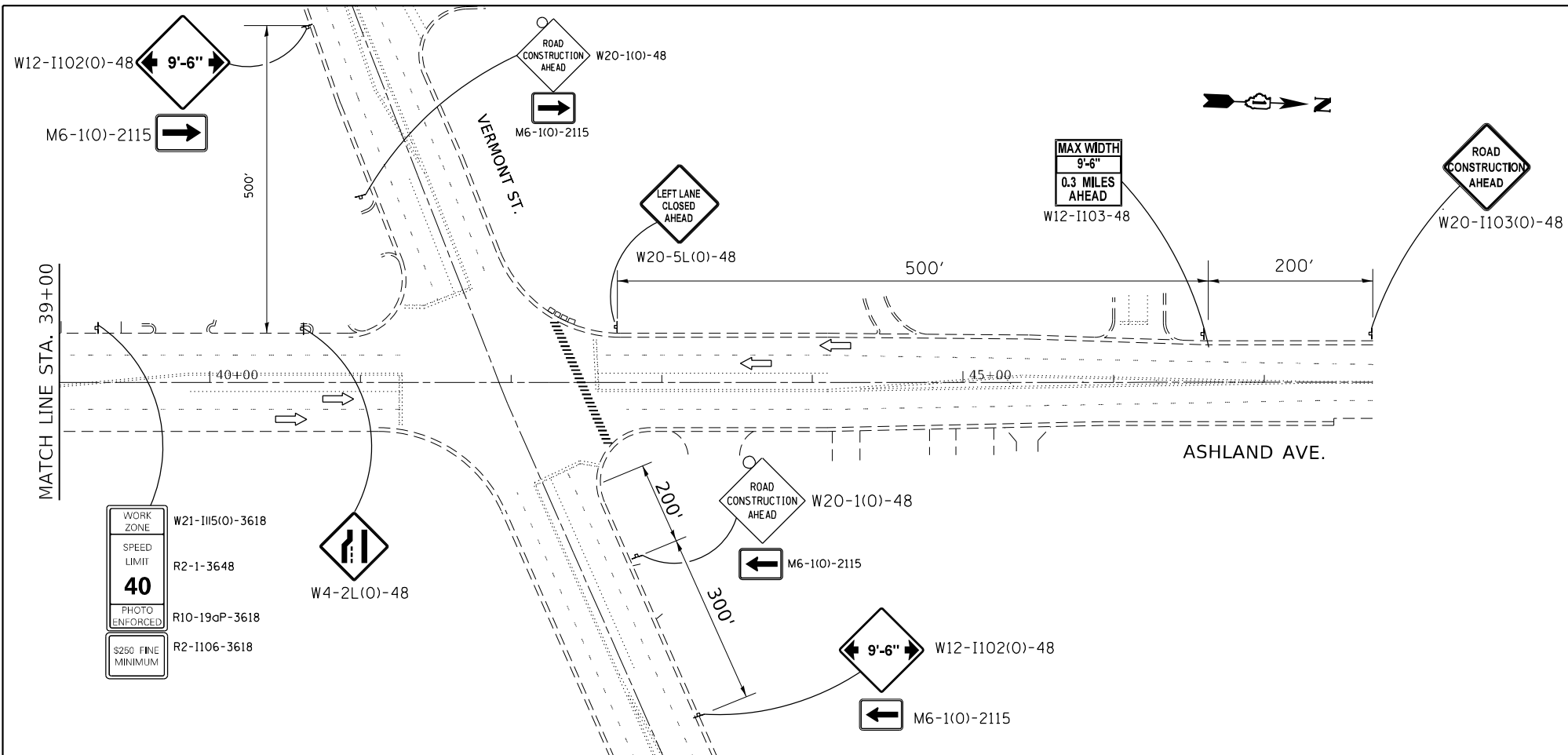
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	30
CONTRACT NO. 62P23			ILLINOIS FED. AID PROJECT	









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

MODEL: Default  
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PLOT DATE = 10/19/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC (STAGE 2)</b>	
<b>ASHLAND AVENUE OVER CALUMET SAG CHANNEL</b>	
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 32
CONTRACT NO. 62P23				
ILLINOIS FED. AID PROJECT				

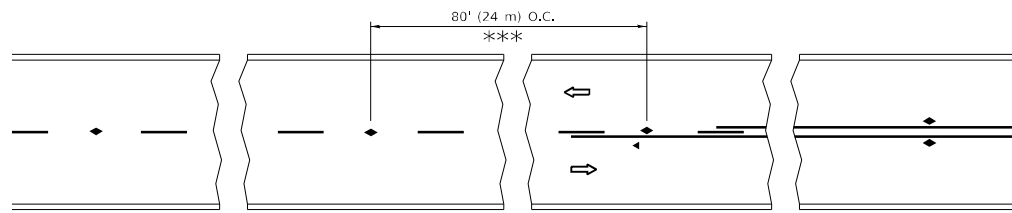






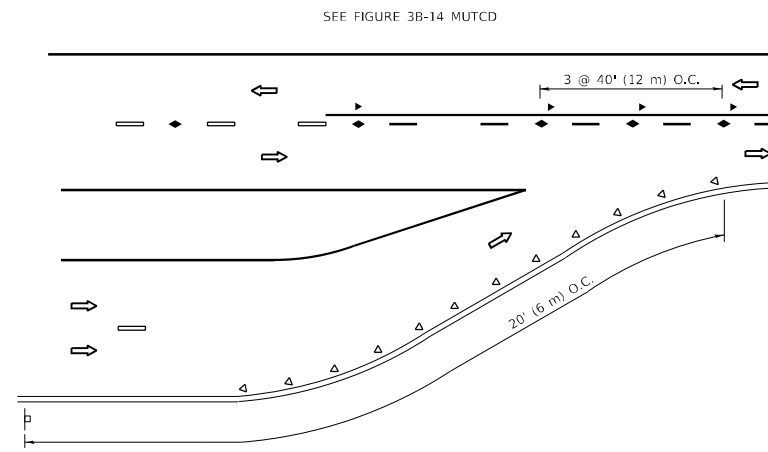




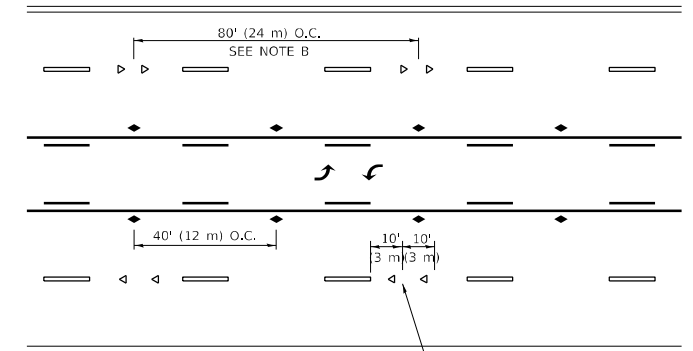


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

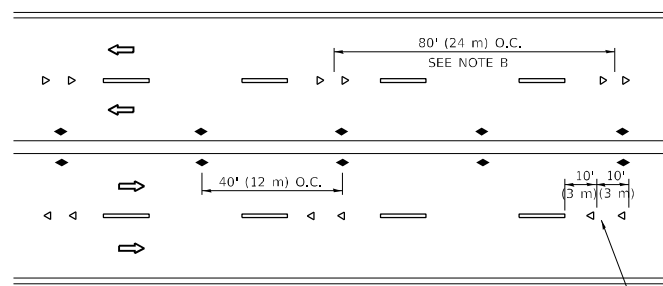
**TWO-LANE/TWO-WAY**



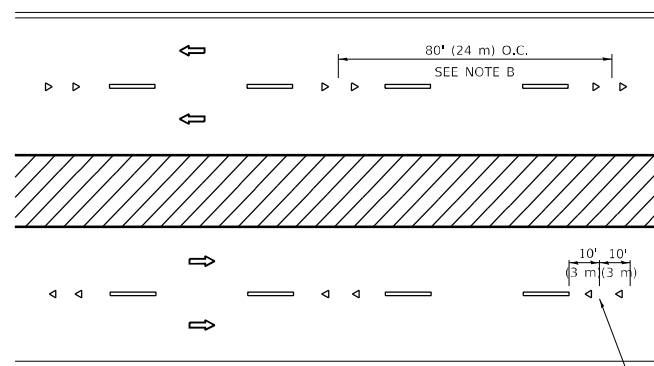
**LANE REDUCTION TRANSITION**



**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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

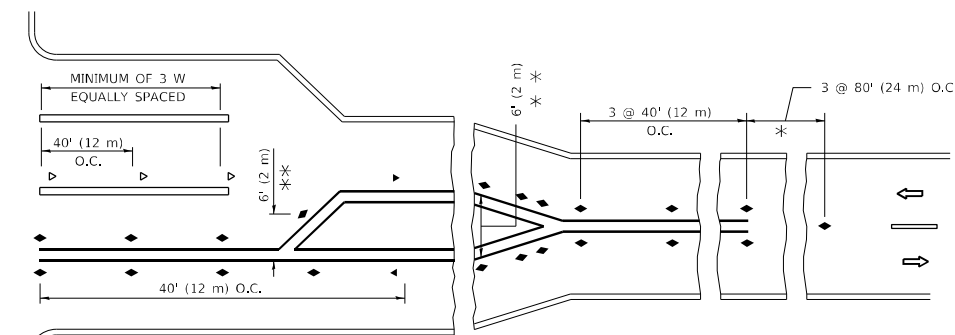
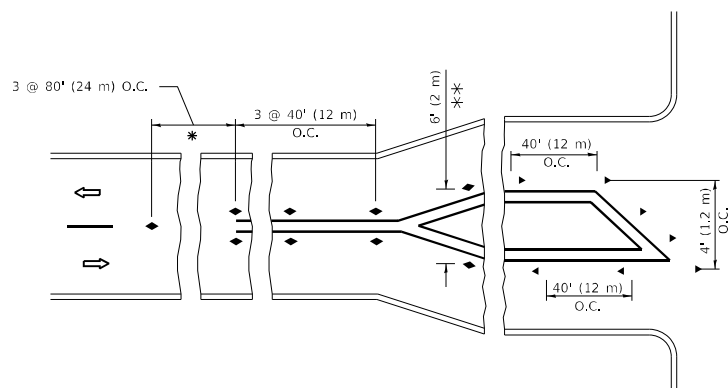
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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.



**TURN LANES**

\* 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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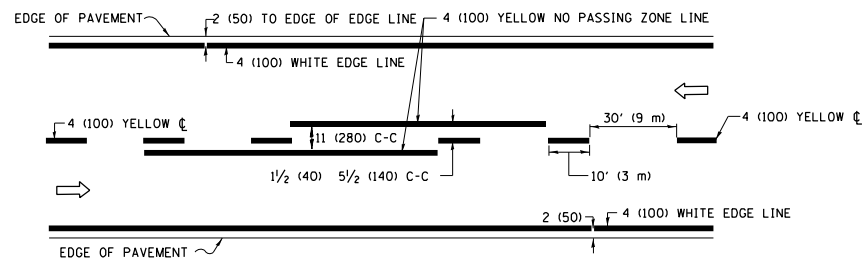
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

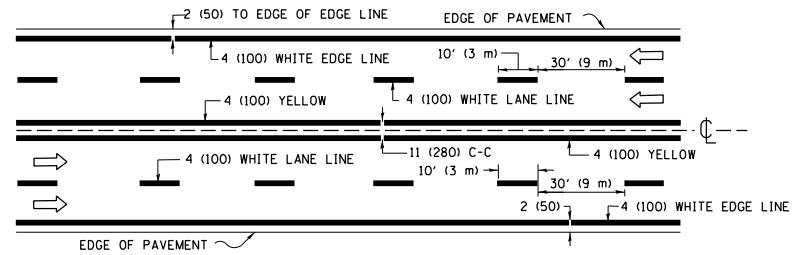
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

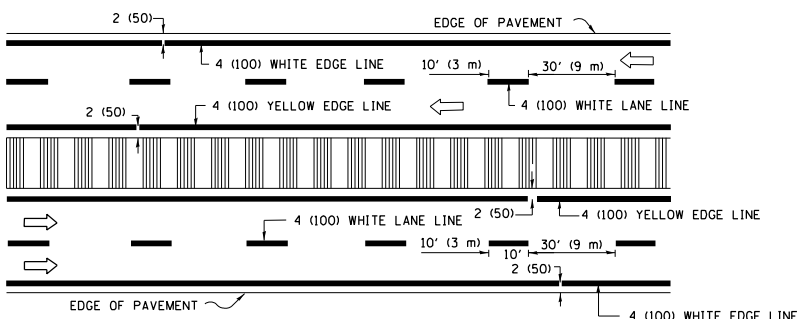
F.A.U. RTE. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 36
TC-11		CONTRACT NO. 62P23		
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

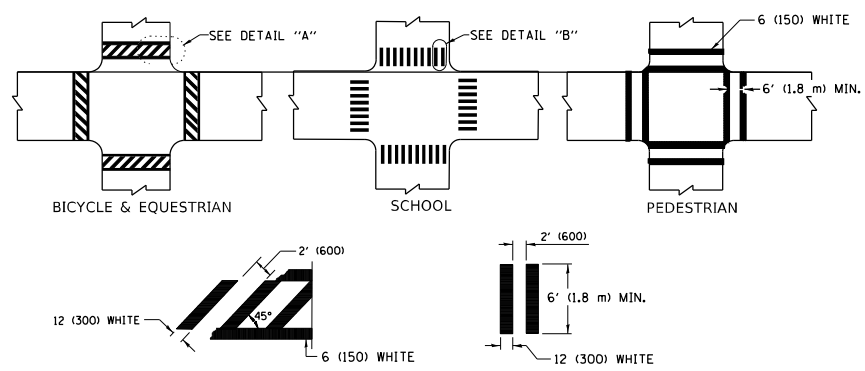


**MULTI-LANE UNDIVIDED**



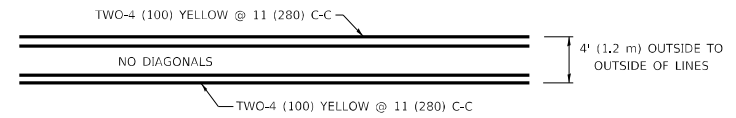
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

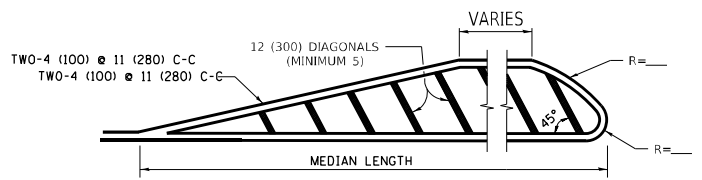


**TYPICAL CROSSWALK MARKING**

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



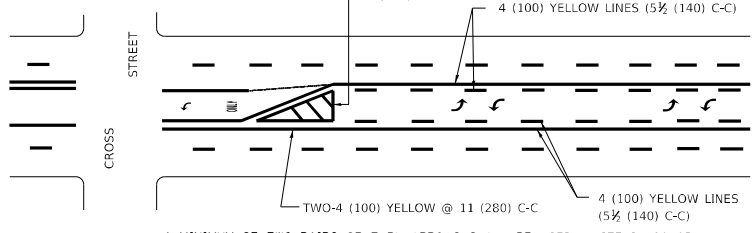
**4' (1.2 m) WIDE MEDIANS ONLY**



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

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

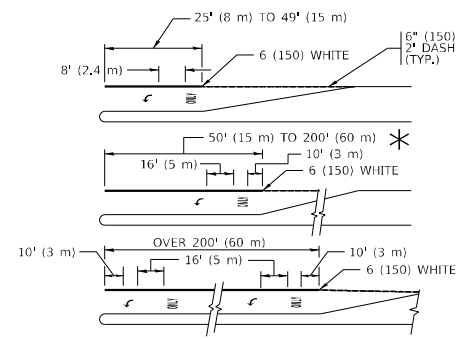
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



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

**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

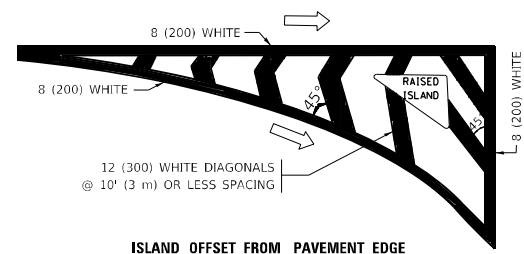


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

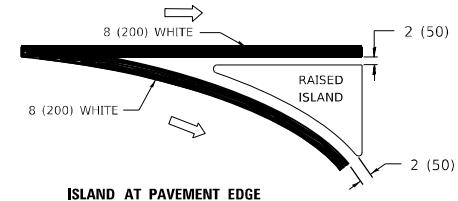
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

**TYPICAL TURN LANE MARKING**

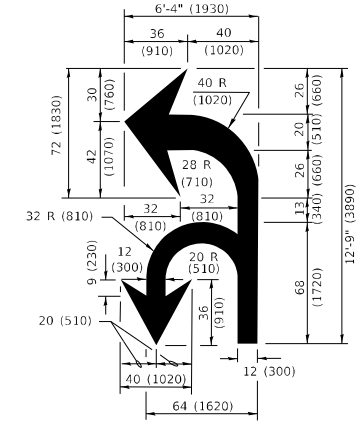


**ISLAND OFFSET FROM PAVEMENT EDGE**

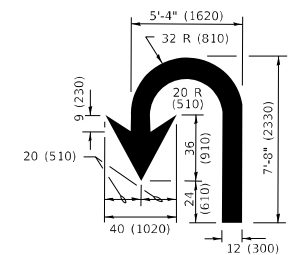


**ISLAND AT PAVEMENT EDGE**

**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 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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DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 10/19/2021	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

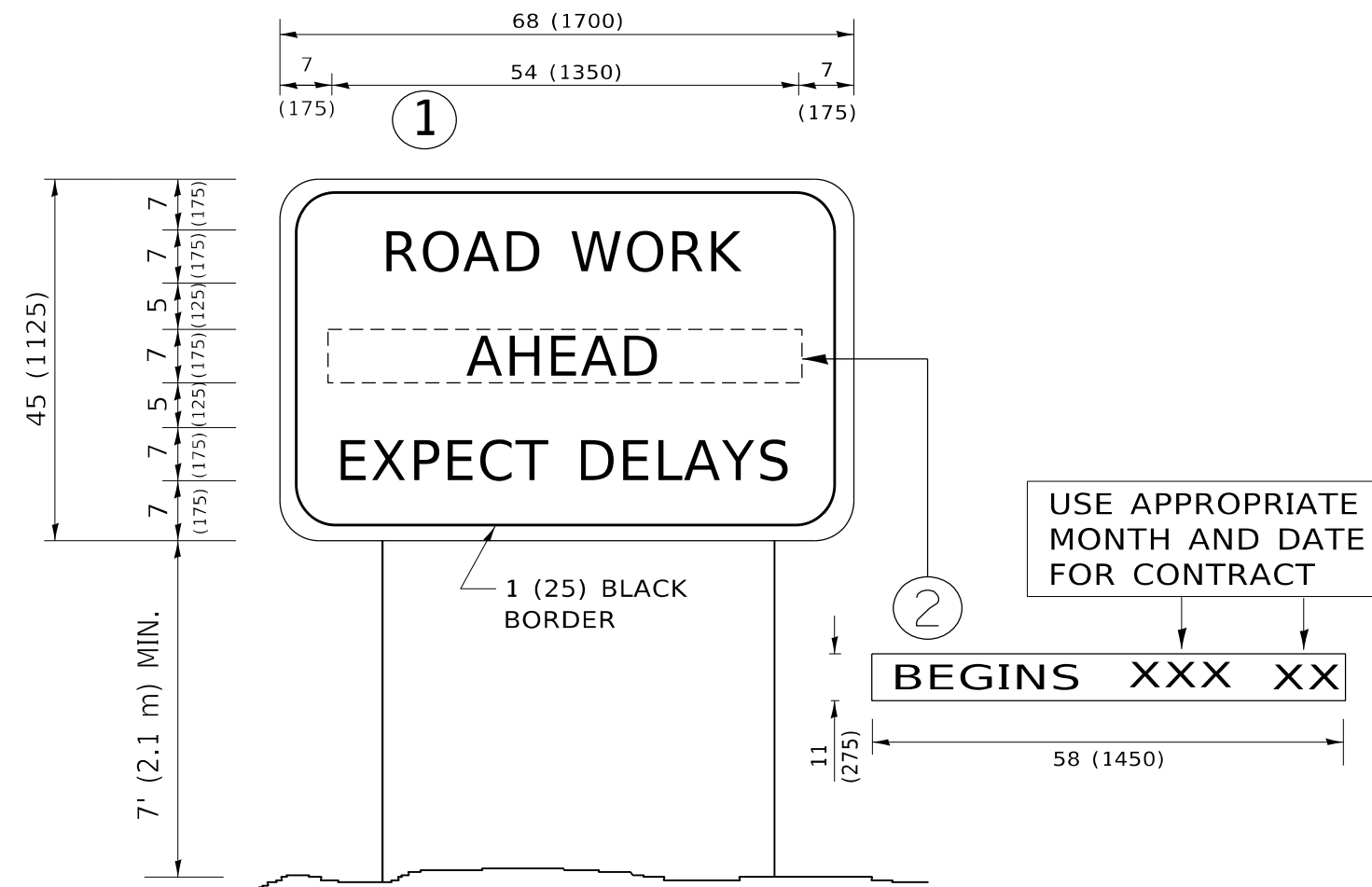
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-095-BP	COOK	38	37
<b>TC-13</b>		CONTRACT NO. 62P23		
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.

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USER NAME = gorengautab	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 = 10/19/2021	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. 2857	SECTION 2021-095-BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 38
<b>TC-22</b>			CONTRACT NO. 62P23	
ILLINOIS FED. AID PROJECT				