11-06-2026 LETTING ITEM 012

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	1
	ILLINOIS	CONTRACT NO. 80C66		

* 72 + 1 = 73 TOTAL SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 90 (I-90)
SECTION (267-1515.F-15D) BJR, BDR 25
PROJECT BR-2G9R(470)
BRIDGE REPAIR AND DECK OVERLAY
COOK COUNTY

C-91-168-26

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE CITY OF CHICAGO

07/27/2026
Thomas P. Paolicchi, P.E. Date
Lic. No. 062.056747 Expires: 11/30/2027
ABNA ENGINEERING (SHTS 1–26 , 61–72)

SEAL — THOMAS P. PAOLICCHI 062-056747 REGISTERED PROFESSIONAL ENGINEER OF STATE OF ILLINOIS

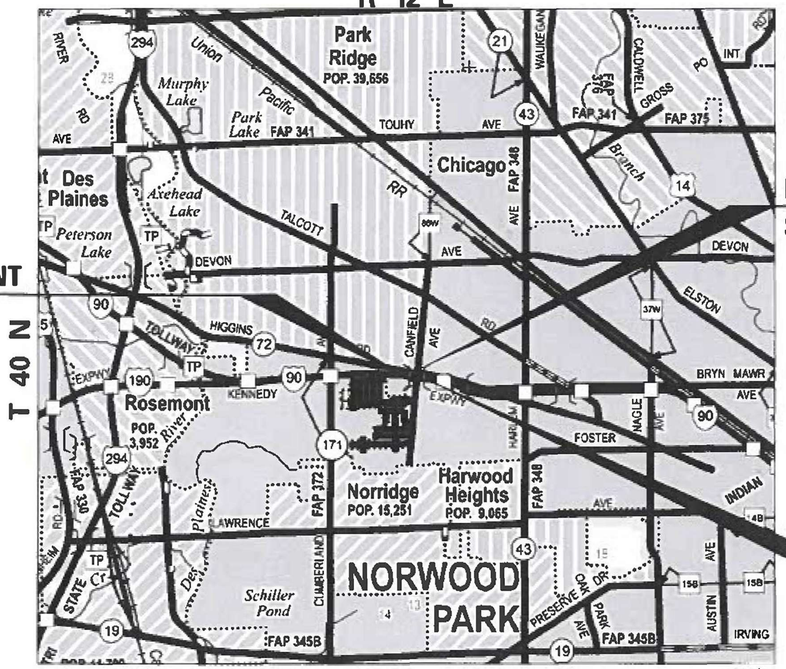
07/27/2026
Timothy C. Gall, P.E. S.E. Date
Lic. No. 081.006644 Expires: 11/30/2026
EPSTEIN (SHTS 27–60)

SEAL — TIMOTHY C. GALL 081-006644 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

TRAFFIC DATA

ROAD NAME: CANFIELD AVENUE
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
POSTED SPEED: 30 MPH
DESIGN SPEED: 30 MPH
2025 ADT = 12,400

R 12 E



T 40 N

BEGIN IMPROVEMENT
STA 23 + 00.00

END IMPROVEMENT
STA 26 + 11.56

SN 016-0707

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

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.

DIGGER (C.U.A.N)
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000
OR 811

PROJECT ENGINEER: DANIEL WILGREEN 847-705-4240
PROJECT MANAGER: J. ALAIN MIDY, PE 847-221-3056

CONTRACT NO. 80C66

GROSS LENGTH = 311.56 FT. = 0.059 MILE
NET LENGTH = 311.56 FT. = 0.059 MILE

ABNA DESIGN FIRM REG. 184.002117
EPSTEIN

D-91-142-26



LOCATION OF SECTION INDICATED THUS ▪

FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
2025 ADT = 12,400
P.V.=99.8% S.U.=0.1% M.U.=0.1%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 12, 26
Jose Ruiz
REGIONAL ENGINEER

October 2, 26
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 26
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV-SEP

INDEX OF SHEETS

1	COVER SHEET
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6	REMOVAL PLAN
7-7A	ROADWAY PLAN
8	MAINTENANCE OF TRAFFIC GENERAL NOTES
9-10	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
11-19	MAINTENANCE OF TRAFFIC PLANS
20-22	DETOUR PLANS AND DETOUR SIGNAGE
23-26	PAVEMENT MARKING PLANS
27-60	STRUCTURAL PLANS
61	FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
62	BUTT JOINTS AND HMA TAPER (BD-32)
63	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
64	~~RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)~~
65-66	MULTI-LANE FREEWAY PAVEMENT MARKING (2 SHEETS) (TC-12)
67	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
68	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
69	~~ARTERIAL ROAD INFORMATION SIGN (TC-22)~~
70-72	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS (3 SHEETS) (TC-24)

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
701301-05	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-04	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701400-13	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-14	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-10	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701427-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701428-02	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-12	TWO LANE CLOSURE, FREEWAY EXPRESSWAY
701606-11	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-11	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-07	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-12	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-06	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE

MIXTURE REQUIREMENTS CHART

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	**AIR VOIDS @Ndesign**	**QMP**
APPROACH OVERLAY & BUTT JOINT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; VARIES	4% @70 Gyr.	QC/QA
QMP DESIGNATIONS : QUALITY CONTROL/QUALITY ASSSURANCE (QC/QA): QUALITY CONTROL FOR PERFORMANCE (QCP): PAY FOR PERFORMANCE (PFP).		

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATION.

GENERAL NOTES

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACT OR 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.

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

3. 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.

4. THE CONTRACTOR SHALL CONTACT JOSEPH JONES, THE DISTRICT ONE ARTERIAL TEMPORARY TRAFFIC CONTROL SUPERVISOR AT JOSEPH.D.JONES@LLLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

5. THE RESIDENT ENGINEER SHALL CONTACT ABDULLA ALI, IDOT'S AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT ABDULLA.ALI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

6. COORDINATION WITH THE CTA IS REQUIRED TO PERFORM WORK ON PIER 2.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES AND CLOSURE WILL BE IN PLACE.

8. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY (OR THE RAILROAD) BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.12 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

10. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT. SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

11. SIDEWALK CLOSURES AND PEDESTRIAN DETOURS SHALL BE INSTALLED PER STDS. 701801 AND 701901. SIDEWALK ACCESS ON ONE SIDE OF THE BRIDGE MUST BE MAINTAINED AT ALL TIMES.

12. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE SURFACE MIX.

13. OUC EFP-137598 IS APPROVED. EFP WILL EXPIRE ON 6/25/2027. CONTRACTOR MUST APPLY TO ALL CDOT PERMIT BEFORE THEN.

14. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND SEVEN DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON THE WORKWEEK MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

15. THE CONTRACTOR SHALL CONTACT THE IDOT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, DISTRICT ONE, CARLOS MUNOZ AT CARLOS.MUNOZ@ILLINOIS.GOV, A MINIMUM OF 72 HOURS IN ADVANCE OF THE BEGINNING OF WORK.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED 20% STATE BRIDGE 0059 016-0707	CONSTRUCTION CODE 100% STATE BRIDGE 0059 016-0707
20200100	EARTH EXCAVATION	CU YD	3	3	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	21	21	
25200110	SODDING, SALT TOLERANT	SQ YD	21	21	
28000510	INLET FILTERS	EACH	2	2	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	316	316	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	110	110	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	80	80	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	79	79	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	387	387	
42400800	DETECTABLE WARNINGS	SQ FT	20	20	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	332	332	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	176	176	
44000600	SIDEWALK REMOVAL	SQ FT	387	387	
50102400	CONCRETE REMOVAL	CU YD	8.5	8.5	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED 20% STATE BRIDGE 0059 016-0707	CONSTRUCTION CODE 100% STATE BRIDGE 0059 016-0707
50157300	PROTECTIVE SHIELD	SQ YD	1075	1075	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.8	9.8	
50300300	PROTECTIVE COAT	SQ YD	1000	1000	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1420	1420	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	132.5	132.5	
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1	
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1000	1000	
53101410	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4"	SQ YD	1000	1000	
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	318	318	
53212755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	10	10	
58700300	CONCRETE SEALER	SQ FT	5047	5047	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	1	1	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	4	4	
60600605	CONCRETE CURB, TYPE B	FOOT	54	54	

* SPECIALITY ITEM

MODEL: SOQ-1 [Sheet]
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USER NAME = galsailani	DESIGNED - GA	REVISED - ####	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 016-0707 I-90 AT CANFIELD AVE SUMMARY OF QUANTITIES
	DRAWN - GA	REVISED - ####		
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED - ####		SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.
PLOT DATE = 8/3/2026	DATE - 5/15/2026	REVISED - ####		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	3
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

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REV-SEP ####

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED 20% STATE BRIDGE 0059 016-0707	CONSTRUCTION CODE 100% STATE BRIDGE 0059 016-0707
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	54	54	
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	122	122	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5	5	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2	
	67100100	MOBILIZATION	L SUM	1	1	
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30	
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2908	2908	
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	641	641	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	837.5	837.5	
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	145	145	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	87	87	
*	78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4"	FOOT	444	444	
*	78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	55	55	
*	78004645	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 9"	FOOT	110	110	
*	78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	55	55	
*	78011050	GROOVING FOR RECESSED PAVEMENT MARKING 10"	FOOT	110	110	
*	78004625	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 5"	FOOT	1927	1927	
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	39	39	
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	45	45	
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	444	444	
	78011030	GROOVING FOR RECESSED PAVEMENT MARKING 6"	FOOT	1927	1927	
*						
*						
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	24	24	
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1991	1991	
*	X0325748	ACRYLIC COATING	SQ YD	80	80	

* SPECIALITY ITEM

MODEL: SOQ-2 [Sheet]
FILE NAME: J:\2026\60010\1D180C66\IDGN\Sheets\D180C66-sht-SOQ.dgn

USER NAME = galsailani	DESIGNED - GA	REVISED - ####	
	DRAWN - GA	REVISED - ####	
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED - ####	
PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED - ####	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	4
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

####

REV-SEP ####

				CONSTRUCTION CODE	
				80% FED 20% STATE	100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0059 016-0707	BRIDGE 0059 016-0707
X0325749	FIBER WRAP	SQ FT	859	859	
X0326839	SIGNAL TIMING	L SUM	1	1	
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	136	136	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1000	1000	
X5060700	CLEANING AND PAINTING BEARINGS	EACH	60	60	
X5230152	CLEANING DRAINAGE SYSTEM	L SUM	1	1	
X5230172	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	14	14	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	149.2	149.2	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	150	150	
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	150	150	
X8140115	HANDHOLE TO BE ADJUSTED	EACH	2	2	

				CONSTRUCTION CODE	
				80% FED 20% STATE	100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0059 016-0707	BRIDGE 0059 016-0707
X8900104	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	5	
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	3	3	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	8	8	
Z0012800	CONCRETE PAVEMENT SCARIFICATION	SQ YD	320	320	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4		4
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1000	1000	
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	714	714	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	2	2	

* SPECIALITY ITEM

MODEL: SOQ-3 [Sheet]
FILE NAME: J:\2026\600\101\D180C66\DGN\Sheets\D180C66-alt-SOQ.dgn

USER NAME = galsailani	DESIGNED - GA	REVISED - ####	
	DRAWN - GA	REVISED - ####	
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED - ####	
PLOT DATE = 7/24/2026	DATE - 5/15/2026	REVISED - ####	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	5
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

####

REV-SEP ####

ILLINOIS ROUTE 72
(W HIGGINS RD)

ILLINOIS ROUTE 72
(W HIGGINS RD)

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

N CANFIELD AVE

ONLY

25+00

SEE NOTE 1

INLET FILTER

COMB CONC CURB AND GUTTER REMOVAL
(STA 25+72.77 TO STA 25+87.22)

INLET TO BE ADJUSTED

COMB CONC CURB AND GUTTER REMOVAL
(STA 25+76.62 TO STA 25+92.39)

DRAINAGE STRUCTURES TO BE CLEANED

STA. 23+85.06
OFF. 24.37' LT.

STA. 23+85.49
OFF. 28.70' LT.

COMB CONC CURB AND GUTTER REMOVAL
(STA 23+61.67 TO STA 23+85.06)

SEE NOTE 1

FRAME AND LID TO BE ADJUSTED

DRAINAGE STRUCTURES TO BE CLEANED

INLET FILTER

FRAME AND GRATE TO BE ADJUSTED

STA. 23+55.78
OFF. 33.19' LT.

STA. 23+56.19
OFF. 47.42' LT.

STA. 23+49.78
OFF. 46.68' LT.

STA. 23+48.79
OFF. 24.72' LT.

COMB CONC CURB AND GUTTER REMOVAL
(STA 23+51.14 TO STA 23+81.36)

FRAME AND LID TO BE ADJUSTED

STA. 23+48.16
OFF. 48.27' LT.

STA. 23+45.32
OFF. 24.15' RT.

COMB CONC CURB AND GUTTER REMOVAL
(STA 22+89.31 TO STA 23+22.80)

STA. 23+23.63
OFF. 49.65' LT.

FRAME AND LID TO BE ADJUSTED

HANDHOLE TO BE ADJUSTED

STA. 23+15.95
OFF. 31.43' LT.

STA. 22+99.84
OFF. 22.38' RT.

STA. 23+03.29
OFF. 26.43' LT.

STA. 22+89.05
OFF. 31.43' LT.

STA. 23+03.72
OFF. 22.72' LT.

STA. 23+00.22
OFF. 20.21' LT.

24

23

REMOVAL LEGEND

- HMA SURFACE REMOVAL
- SIDEWALK REMOVAL
- APPROACH SLAB SCARIFICATION

NOTE:
1. REFER TO THE BRIDGE PLANS FOR APPROACH SCARIFICATION LIMITS.

MODEL: REMOVAL [Sheet]
FILE NAME: J:\2026\6001\D180C66\DGN\Sheets\d180c66-sht-removal.dgn

ABNA
DESIGN FIRM REG. 184.002117

USER NAME = galsailani		DESIGNED - GA		REVISED -	
		DRAWN - GA		REVISED -	
PLOT SCALE = $SCALE$		CHECKED - TPP		REVISED -	
PLOT DATE = 8/10/2026		DATE - 5/15/2026		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
REMOVAL PLAN

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	6
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

ILLINOIS ROUTE 72
(W HIGGINS RD)

ILLINOIS ROUTE 72
(W HIGGINS RD)

SEE NOTE 1

COMB CONC CURB AND GUTTER, TYPE B6.18
(STA 25+72.77 TO STA 25+87.22)

COMB CONC CURB AND GUTTER, TYPE B6.18
(STA 25+76.62 TO STA 25+92.39)

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

25+00

ONLY

N CANFIELD AVE

25

24

23

SEE NOTE 1

COMB CONC CURB AND GUTTER, TYPE B6.12
(STA 23+61.67 TO STA 23+85.06)

STA. 23+48.79
OFF. 24.72' LT.

STA. 23+55.78
OFF. 33.19' LT.

COMB CONC CURB AND GUTTER, TYPE B6.18
(STA 23+51.14 TO STA 23+81.36)

STA. 23+45.24
OFF. 25.25' RT.

STA. 23+23.68
OFF. 49.65' LT.

COMB CONC CURB AND GUTTER, TYPE B6.18
(STA 23+00.22 TO STA 23+23.63)

STA. 22+99.84
OFF. 22.38' RT.

STA. 23+00.22
OFF. 20.21' LT.

0 20 40 60
SCALE IN FEET

ROADWAY LEGEND

PROPOSED HMA SURFACE

PROPOSED SIDEWALK (MATCH PR TOP OF CURB ELEVATIONS)

PROPOSED HMA OVERLAY ON APPROACH SLAB

NOTE:
1. REFER TO THE BRIDGE PLANS FOR APPROACH SCARIFICATION LIMITS.

MODEL: PLAN [Sheet]
FILE NAME: J:\2026\60\01\01D180C66\DGN\Sheets\d180c66-sht-plan.dgn

ABNA
DESIGN FIRM REG. 184.002117

USER NAME = galsailani	DESIGNED - GA	REVISED -	
	DRAWN - GA	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -	
PLOT DATE = 8/10/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

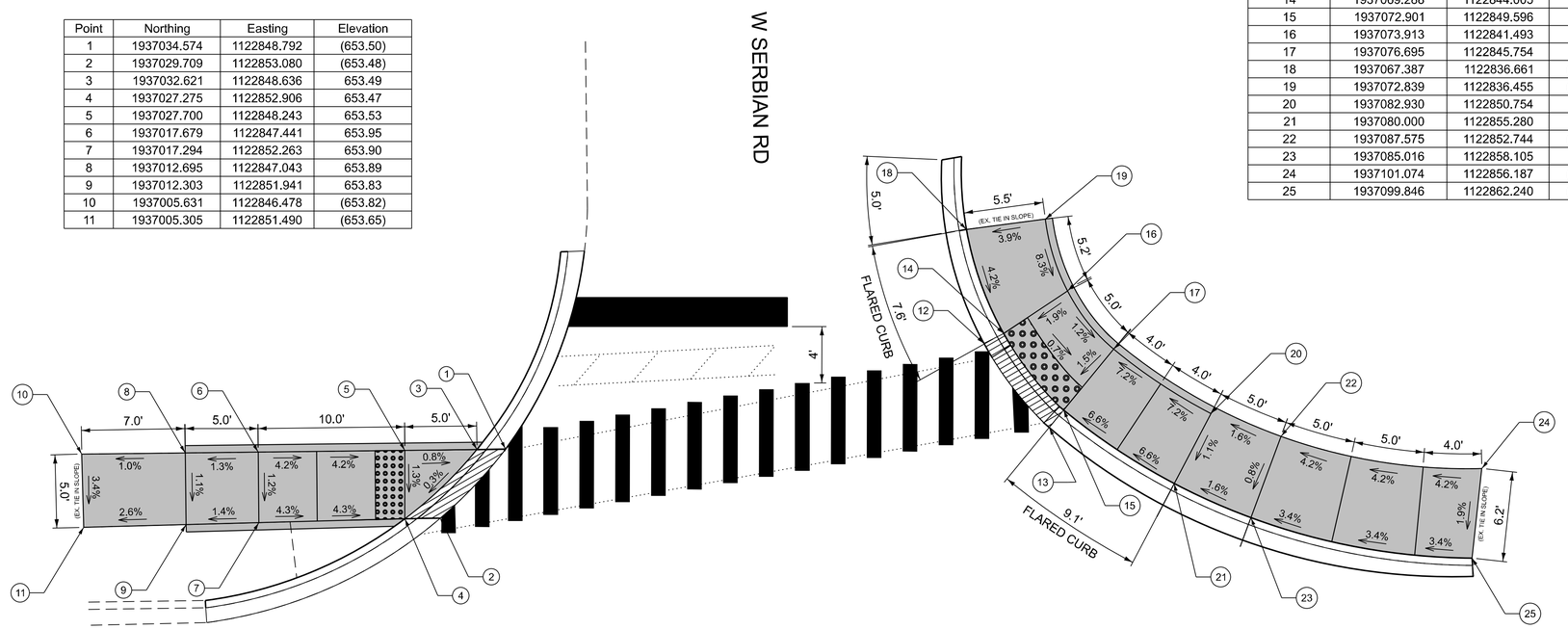
SN 016-0707 I-90 AT CANFIELD AVE
ROADWAY PLAN

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	7
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

Point	Northing	Easting	Elevation
1	1937034.574	1122848.792	(653.50)
2	1937029.709	1122853.080	(653.48)
3	1937032.621	1122848.636	653.49
4	1937027.275	1122852.906	653.47
5	1937027.700	1122848.243	653.53
6	1937017.679	1122847.441	653.95
7	1937017.294	1122852.263	653.90
8	1937012.695	1122847.043	653.89
9	1937012.303	1122851.941	653.83
10	1937005.631	1122846.478	(653.82)
11	1937005.305	1122851.490	(653.65)

Point	Northing	Easting	Elevation
12	1937067.881	1122844.553	(654.18)
13	1937071.809	1122850.704	(654.14)
14	1937069.288	1122844.005	654.17
15	1937072.901	1122849.596	654.13
16	1937073.913	1122841.493	654.27
17	1937076.695	1122845.754	654.21
18	1937067.387	1122836.661	(654.49)
19	1937072.839	1122836.455	(654.70)
20	1937082.930	1122850.754	654.79
21	1937080.000	1122855.280	654.73
22	1937087.575	1122852.744	(654.87)
23	1937085.016	1122858.105	654.82
24	1937101.074	1122856.187	(655.46)
25	1937099.846	1122862.240	(655.35)



LEGEND

( ) EXISTING ELEVATION

XXX PROPOSED ELEVATION

X.X% SIDEWALK PAVEMENT SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

DEPRESSED CURB

N

0 5 10

SCALE IN FEET

MODEL: N Canfield Ave-1 [Sheet]
FILE NAME: $FILE1$

ABNA DESIGN FIRM REG. 184.002117
745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
www.abnacorp.com

USER NAME = $USER$	DESIGNED - RA	REVISED -	
	DRAWN - RA	REVISED -	
	CHECKED - HH	REVISED -	
PLOT DATE = 9/22/2026	DATE - 08/11/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
ADA COMPLIANCE DETAILS - W SERBIAN RD

SCALE: 1"=5' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	7A
		CONTRACT NO. 80C66		
		ILLINOIS	FED. AID PROJECT	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE PERMANENT TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (ARTERIALS) (D1) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.

2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.

3. THE CONTRACTOR SHALL CONTACT JOSEPH JONES THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT JOSEPH.D.JONES@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

4. THE “ROAD WORK AHEAD” SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.

5. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN.

6. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.

7. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

8. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.

9. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE OR REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

10. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY.

11. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.

12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.

13. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL ROAD CLOSURE, TRAFFIC STAGE CHANGES, AND NEW TRAFFIC SIGNAL TURN-ON EVENTS ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGNS SHALL BE REMOVED TWO WEEKS THEREAFTER UNLESS THE SIGNS ARE NEEDED AGAIN FOR A SUBSEQUENT FUTURE EVENT THAT WILL OCCUR WITHIN 2 WEEKS ON THE SAME APPROACH OF THE EFFECTED ROADWAY. THE SIGN LOCATIONS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

14. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND SEVEN DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON THE WORKWEEK MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

15. THE CONTRACTOR SHALL CONTACT THE IDOT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, DISTRICT ONE, CARLOS MUNOZ AT CARLOS.MUNOZ@ILLINOIS.GOV, A MINIMUM OF 72 HOURS IN ADVANCE OF THE BEGINNING OF WORK.

SEQUENCING NOTES:

STAGE 1:

WORK: WILL CONSIST OF NORTH AND SOUTH ABUTMENT WALL REPAIRS,
REPAIRS TO PIER 3, AND BEAM REPAIRS.

MAINTENANCE OF TRAFFIC: CLOSURE OF A ONE EASTBOUND THRU LANE, SOUTHBOUND RIGHT TURN LANE, AND WESTBOUND TO SOUTHBOUND LEFT TURN LANE ALONG IL 72 (HIGGINS ROAD) AT CANFIELD AVENUE.

ONE LANE CLOSURE OF OUTSIDE LANES OF EASTBOUND AND WESTBOUND I-90. FOR BEAM REPAIR WORK AN ADDITIONAL LANE CAN BE CLOSED IN ACCORDANCE WITH THE HIGHWAY STANDARDS. WORK ALONG I-90 SHALL BE PERFORMED AT NIGHT WITHIN THE ALLOWABLE CLOSURE HOURS PROVIDED IN THE SPECIAL PROVISIONS.

STAGE 2:

WORK: WILL CONSIST OF ERECTION OF TEMPORARY SHORING AND CRIBBING AND STRUCTURAL REPAIRS TO PIER 2.

MAINTENANCE OF TRAFFIC: ONE LANE CLOSURE OF INSIDE LANES OF EASTBOUND AND WESTBOUND I-90. THE ADJACENT LANE IN EACH DIRECTION CAN BE CLOSED TO FACILITATE REPAIR WORK ON THE BEAMS. THE ADDITIONAL LANE CLOSURES SHALL BE PERFORMED PER STANDARD 701446-11 AND PERFORMED WITHIN THE ALLOWABLE LANE CLOSURE HOURS.

STAGE 3:

WORK: WILL CONSIST OF NORTH BRIDGE APPROACH HMA OVERLAY AND CONCRETE JOINT REPAIR.

MAINTENANCE OF TRAFFIC: CLOSURE OF ONE EASTBOUND LANE ALONG IL 72 (HIGGINS ROAD).

BRIDGE DECK REPAIR WORK ALONG CANFIELD AVENUE:

CONTRACTOR SHALL PROVIDE DETOURS AS SHOWN. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ALONG ONE SIDE OF THE BRIDGE AT ALL TIMES.

MODEL: MOT GENERAL NOTES [Sheet]
FILE NAME: J:\2026\60010\D180C66\DGN\Sheets\D180C66-sht-GEN NOTES.dgn

ABNA
DESIGN FIRM REG. 184.002117

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		DRAWN - GA		REVISED - ####	
PLOT SCALE = $SCALE$		CHECKED - TPP		REVISED - ####	
PLOT DATE = 7/24/2026		DATE - 5/15/2026		REVISED - ####	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC GENERAL NOTES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	8
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

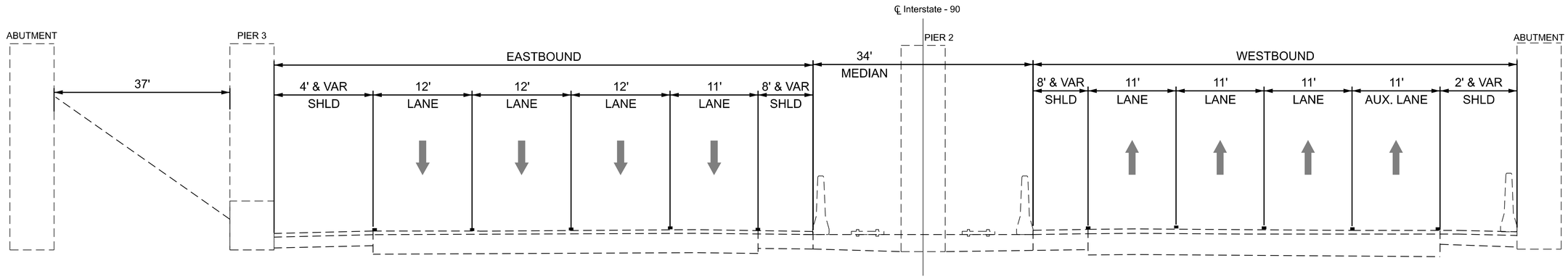
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MODEL: MOT TYPICALS [Sheet]
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ABNA DESIGN FIRM REG. 184.002117	USER NAME = galsailani	DESIGNED - GA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 016-0707 I-90 AT CANFIELD AVE MAINTENANCE OF TRAFFIC TYPICAL SECTIONS - STAGE 1
		DRAWN - GA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -		
	PLOT DATE = 9/17/2026	DATE - 5/15/2026	REVISED -		SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

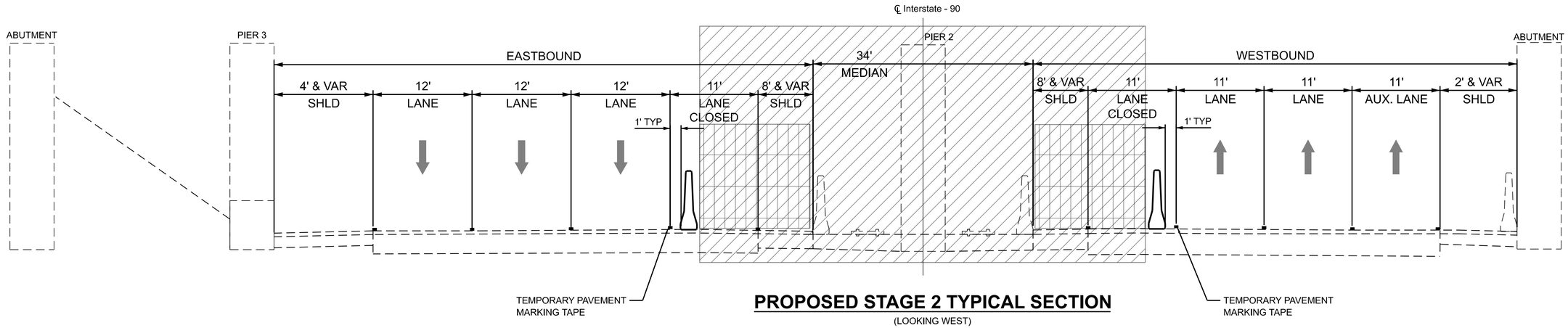
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	9
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			



EXISTING STAGE 2 TYPICAL SECTION

(LOOKING WEST)

STA 135+57 TO STA 134+94



PROPOSED STAGE 2 TYPICAL SECTION

(LOOKING WEST)

STA 135+57 TO STA 134+94

LEGEND

- WORK AREA
- APPROX. SHORING AREA
- DIRECTION OF TRAFFIC
- 50 C-C DRUMS
- TEMPORARY CONCRETE BARRIER (PINNED ON TRAFFIC SIDE)

MODEL: MOT TYPICALS-2 [Sheet]
FILE NAME: J:\2026\60010\D180C66\DGN\Sheets\d180c66-sht-mot typicals.dgn

ABNA DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED - ####
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED - ####
PLOT DATE = 9/23/2026	DATE - 5/15/2026	REVISED - ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS - STAGE 2

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	10
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

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MODEL: MOT 1 - 4 [Sheet]
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ABNA DESIGN FIRM REG. 184.002117	USER NAME = galsailani	DESIGNED - GA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 016-0707 I-90 AT CANFIELD AVE MAINTENANCE OF TRAFFIC - STAGE 1
		DRAWN - GA	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -		
	PLOT DATE = 9/22/2026	DATE - 5/15/2026	REVISED -		SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

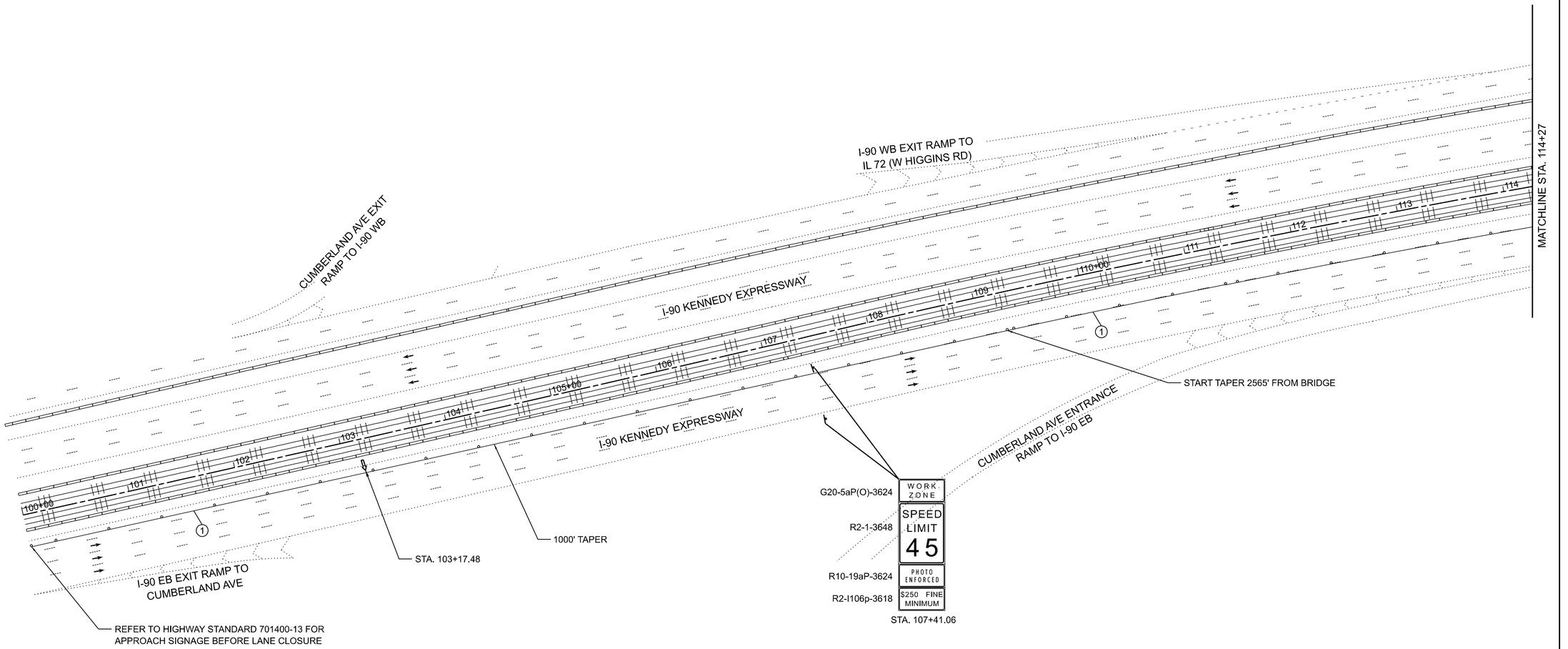
LEGEND

- DRUMS WITH STEADY BURN BI-DIRECTIONAL LIGHT (20' C-C)
- WORK AREA
- TEMPORARY CONCRETE BARRIER WITH MONODIRECTIONAL AMBER, TYPE C REFLECTORS PER STD 704001 & 782006
- SIGN
- TRAFFIC FLOW ARROW
- ARROW BOARD
- IMPACT ATTENUATOR, TEMP FULLY REDIRECTIVE, TEST LEVEL 3
- (1) TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE (SOLID YELLOW)

N

0 50 100 150

SCALE IN FEET



MODEL: MOT 2 [Sheet]
FILE NAME: J:\2026\60010\1D180C66\IDGN\Sheets\d180c66-sht-mot 2.dgn

ABNA
DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED -
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -
PLOT DATE = 9/17/2026	DATE - 5/15/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 1"=50' | SHEET 5 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	15
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

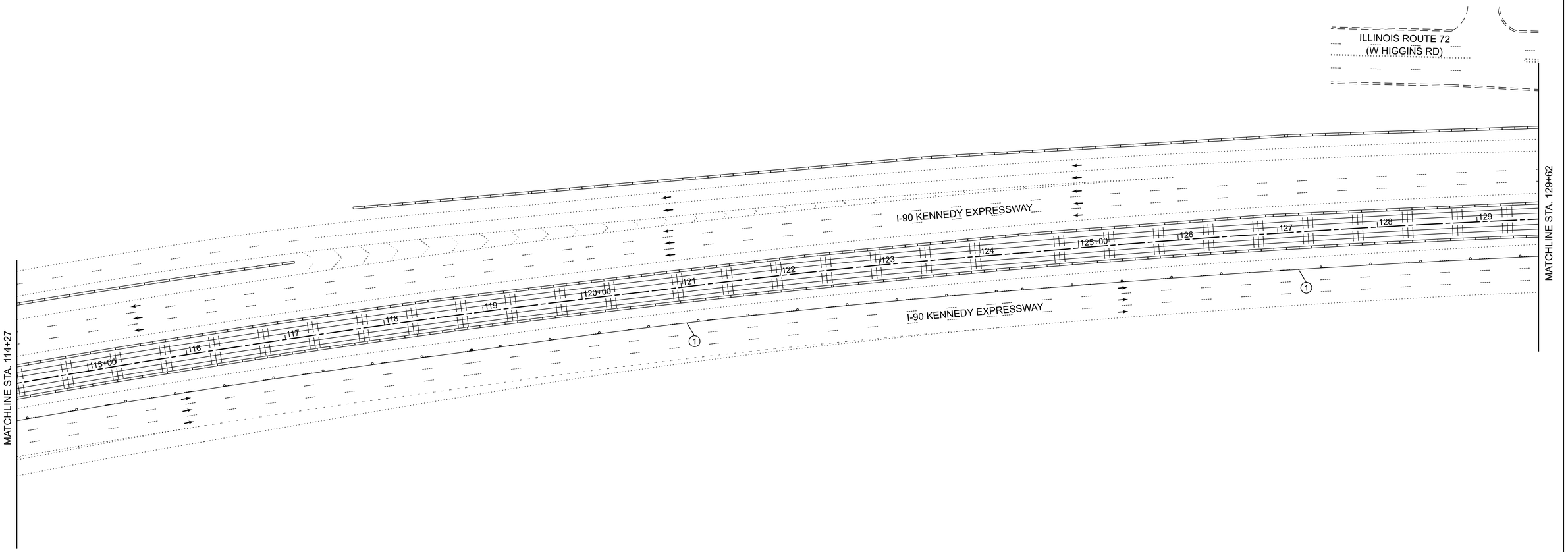
LEGEND

- DRUMS WITH STEADY BURN BI-DIRECTIONAL LIGHT (20' C-C)
- WORK AREA
- TEMPORARY CONCRETE BARRIER WITH MONODIRECTIONAL AMBER, TYPE C REFLECTORS PER STD 704001 & 782006
- SIGN
- TRAFFIC FLOW ARROW
- ARROW BOARD
- IMPACT ATTENUATOR, TEMP FULLY REDIRECTIVE, TEST LEVEL 3
- (1) TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE (SOLID YELLOW)

N

0 50 100 150

SCALE IN FEET



MODEL: MOT 2 - 2 [Sheet]
FILE NAME: J:\2026\600101\D180C66\DGN\Sheets\d180c66-sht-mot 2.dgn

ABNA
DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED -
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -
PLOT DATE = 5/12/2026	DATE - 5/15/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 1"=50' | SHEET 6 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	16
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

N

0 50 100 150

SCALE IN FEET

STA. 131+98.25
R2-12-3654
END WORK ZONE SPEED LIMIT

STA. 134+47.87
WORK ZONE — G20-5aP(O)-3624
SPEED LIMIT 55 — R2-1-3648
PHOTO ENFORCED — R10-19aP-3624
$250 FINE MINIMUM — R2-I106p-3618

TEMP PVM - LINE 6" - TYPE IV TAPE ALONG FACE OF TCB

ILLINOIS ROUTE 72 (W HIGGINS RD)

N CANFIELD AVE

I-90 KENNEDY EXPRESSWAY

MATCHLINE STA. 129+62

299.58'

STA. 133+40.96

TEMPORARY SHORING

STA. 133+07.30

12:1 TAPER

STA. 134+46.82

TEMP PVM - LINE 6" - TYPE IV TAPE ALONG FACE OF TCB

STA. 136+07.10

STA. 137+57.79

I-90 WB EXIT RAMP TO IL 72 (W HIGGINS RD)

299.59'

STA. 137+15.40

TEMP PVM - LINE 6" - TYPE IV TAPE ALONG FACE OF TCB

WORK ZONE — G20-5aP(O)-3624
SPEED LIMIT 55 — R2-1-3648
PHOTO ENFORCED — R10-19aP-3624
$250 FINE MINIMUM — R2-I106p-3618
STA. 135+86.12

END WORK ZONE SPEED LIMIT
R2-12-3654
STA. 138+55.08

MATCHLINE STA. 144+86

LEGEND

- DRUMS WITH STEADY BURN BI-DIRECTIONAL LIGHT (20' C-C)
- WORK AREA
- TEMPORARY CONCRETE BARRIER WITH MONODIRECTIONAL AMBER, TYPE C REFLECTORS PER STD 704001 & 782006
- SIGN
- TRAFFIC FLOW ARROW
- ARROW BOARD
- IMPACT ATTENUATOR, TEMP FULLY REDIRECTIVE, TEST LEVEL 3
- (1) TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE (SOLID YELLOW)

MODEL: MOT 2 - 3 [Sheet]
FILE NAME: J:\2026\60010101\D180C66\DGN\Sheets\d180c66-sht-mot 2.dgn

ABNA DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -	
PLOT DATE = 9/17/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 1"=50' | SHEET 7 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	17
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

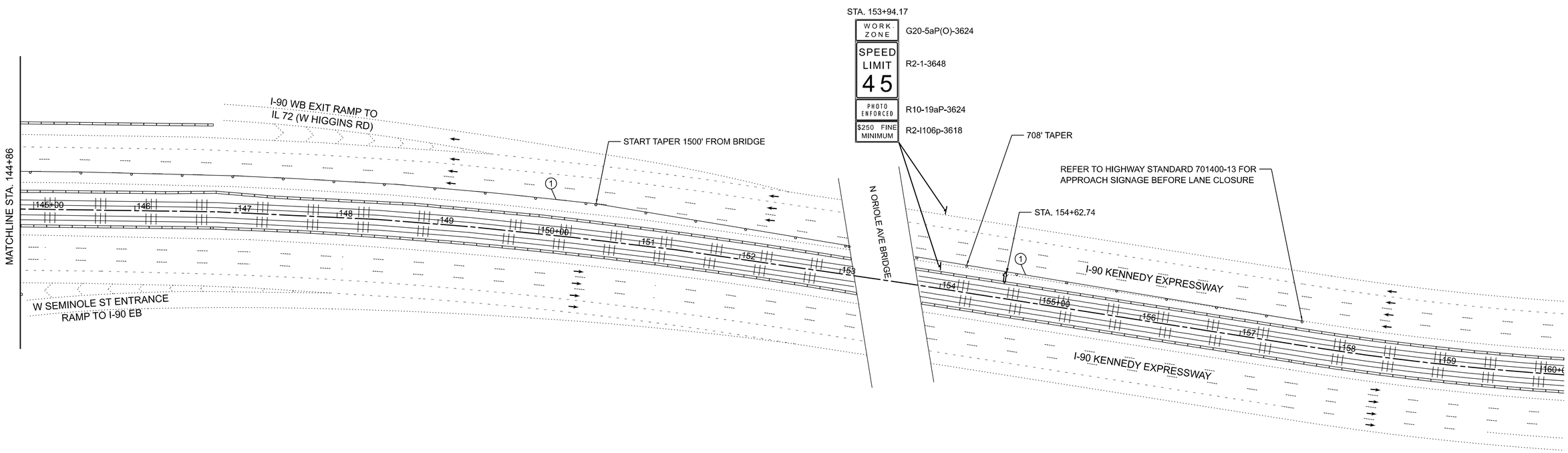
LEGEND

- DRUMS WITH STEADY BURN BI-DIRECTIONAL LIGHT (20' C-C)
- WORK AREA
- TEMPORARY CONCRETE BARRIER WITH MONODIRECTIONAL AMBER, TYPE C REFLECTORS PER STD 704001 & 782006
- SIGN
- TRAFFIC FLOW ARROW
- ARROW BOARD
- IMPACT ATTENUATOR, TEMP FULLY REDIRECTIVE, TEST LEVEL 3
- (1) TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE (SOLID YELLOW)

N

0 50 100 150

SCALE IN FEET



MODEL: MOT 2 - 4 [Sheet]
FILE NAME: J:\2026\600101\D180C66\DGN\Sheets\d180c66-sht-mot 2.dgn

ABNA
DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -	
PLOT DATE = 7/24/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 1"=50' | SHEET 8 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	18
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

N

0 50 100 150

SCALE IN FEET

REFER TO HIGHWAY STANDARD
701701 FOR SIGNAGE

R3-1

ROAD
CLOSED

PER DETOUR PLAN
SHEET NO. 20

N CANFIELD AVE

R3-2

REFER TO HIGHWAY STANDARD
701606-10 FOR SIGNAGE

280' TAPER

ILLINOIS ROUTE 72
(W HIGGINS RD)

START TAPER 124.54' FROM STOP BAR

75.23'

REFER TO HIGHWAY STANDARD
701701 FOR SIGNAGE

ILLINOIS ROUTE 72
(W HIGGINS RD)

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

I-90 KENNEDY EXPRESSWAY

128 129 130+00 131 132 133 134 135+00 136 137 138 139 140+00 141 142

29 28 27 26 25 24 23 22 21 20+00

SIDEWALK CLOSURES AND PEDESTRIAN DETOURS SHALL BE INSTALLED PER STDS. 701801 AND 701901. SIDEWALK ACCESS ON ONE SIDE OF THE BRIDGE MUST BE MAINTAINED AT ALL TIMES.

N CANFIELD AVE

ROAD
CLOSED

PER DETOUR PLAN
SHEET NO. 20

R3-2

LEGEND

- DRUMS (20'C-C TAPERS) (50' C-C TANGENTS)
- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC FLOW ARROW
- ARROW BOARD
- DOUBLE FLASHING ARROW BOARD
- (1) TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE (SOLID WHITE)

MODEL: MOT 3 [Sheet]
FILE NAME: J:\2026\60010\1D180C66\DGN\Sheets\d180c66-sht-mot 3.dgn

ABNA
DESIGN FIRM REG. 184.002117

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		DRAWN - GA		REVISED -	
PLOT SCALE = $SCALE$		CHECKED - TPP		REVISED -	
PLOT DATE = 9/22/2026		DATE - 5/15/2026		REVISED -	

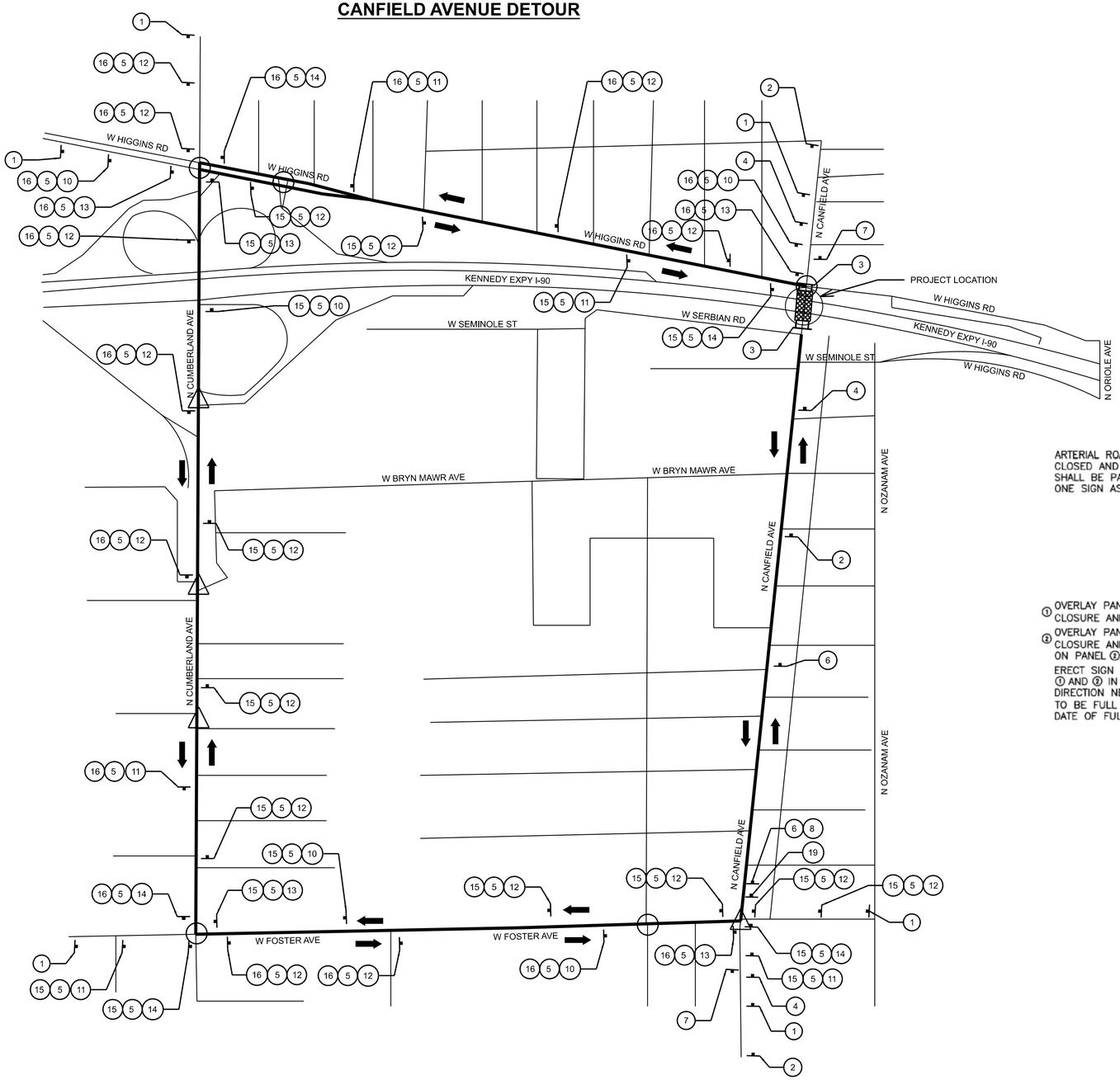
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - STAGE 3

SCALE: 1"=50' | SHEET 9 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	19
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

CANFIELD AVENUE DETOUR



NOTES:

1. TEMPORARY TRAFFIC SIGNAL TIMING IS NEEDED FOR THIS DETOUR AT FIVE (5) IDOT SIGNALIZED LOCATIONS, TO BE COORDINATED WITH THE ENGINEER.
3. SIGNAL TIMING IS NEEDED FOR THIS DETOUR AT FOUR (4) CDOT SIGNALIZED LOCATIONS, TO BE COORDINATED WITH THE ENGINEER.
2. THE CONTRACTOR SHALL FOLLOW STANDARD (TC-21) FOR SIGN SPACING DETAIL.
3. THE CONTRACTOR SHALL ADD "ROAD CLOSED LOCAL TRAFFIC ONLY" SIGNS WITH STAGGERED TYPE III BARRICADES PER IDOT STANDARD 701901 ON ALL LOCAL CUTS THROUGH CANFIELD AVE BETWEEN THE BRIDGE AND FOSTER AVE.

DETOUR PLAN LEGEND

- PROJECT AREA FOR DETOUR
- SIGN POST MOUNTED
- 19 2 3 — DETOUR SIGN TYPE
- DETOUR ROUTE
- TYPE III BARRICADES WITH TWO FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL TIMING
- SIGNAL TIMING

ARTERIAL ROAD INFORMATION SIGN FOR ROADS TO BE FULLY CLOSED AND DETOURED.
SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.
ONE SIGN ASSEMBLY EQUALS 37.3 SQ. FT.

ROAD WILL BE CLOSED
FROM MMM ## ①
THRU MMM# ②

① OVERLAY PANEL ① TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLANTATION. (I.E. "FROM APR 2")
② OVERLAY PANEL ② TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR (I.E. "THRU JULY") OMIT THE DATE ON PANEL ②; MONTH ONLY.

ERECT SIGN ASSEMBLY (POST MOUNTED) WITH PANELS ① AND ② IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULL CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE, REMOVE ASSEMBLY AFTER CLOSURE

DETOUR ROUTE INFORMATION

N CANFIELD AVE - BRIDGE TO W FOSTER AVE
JURISDICTION: IDOT
ADT: 12,400 (TWO-WAY)
2-LANE UNDIVIDED
TRAVEL DISTANCE: 0.68 MILE

W FOSTER AVE - N CANFIELD AVE TO N CUMBERLAND AVE
JURISDICTION: MUNICIPALITY
ADT: 7,800 (TWO-WAY)
2-LANE UNDIVIDED
TRAVEL DISTANCE: 0.61 MILES

N CUMBERLAND AVE - W FOSTER AVE TO W HIGGINS RD
JURISDICTION: IDOT
ADT: 29,400 (TWO-WAY)
6-LANE UNDIVIDED
TRAVEL DISTANCE: 0.87 MILES

W HIGGINS RD - N CUMBERLAND AVE TO BRIDGE
JURISDICTION: IDOT
ADT: 15,900 (TWO-WAY)
4-LANE UNDIVIDED
TRAVEL DISTANCE: 0.69 MILES

MODEL: DETOUR-2 [Sheet]
FILE NAME: J:\2026\6001011D180C66\DGN\Sheets\d180c66-sht-detour.dgn

ABNA DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED -
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -
PLOT DATE = 9/18/2026	DATE - 5/15/2026	REVISED -

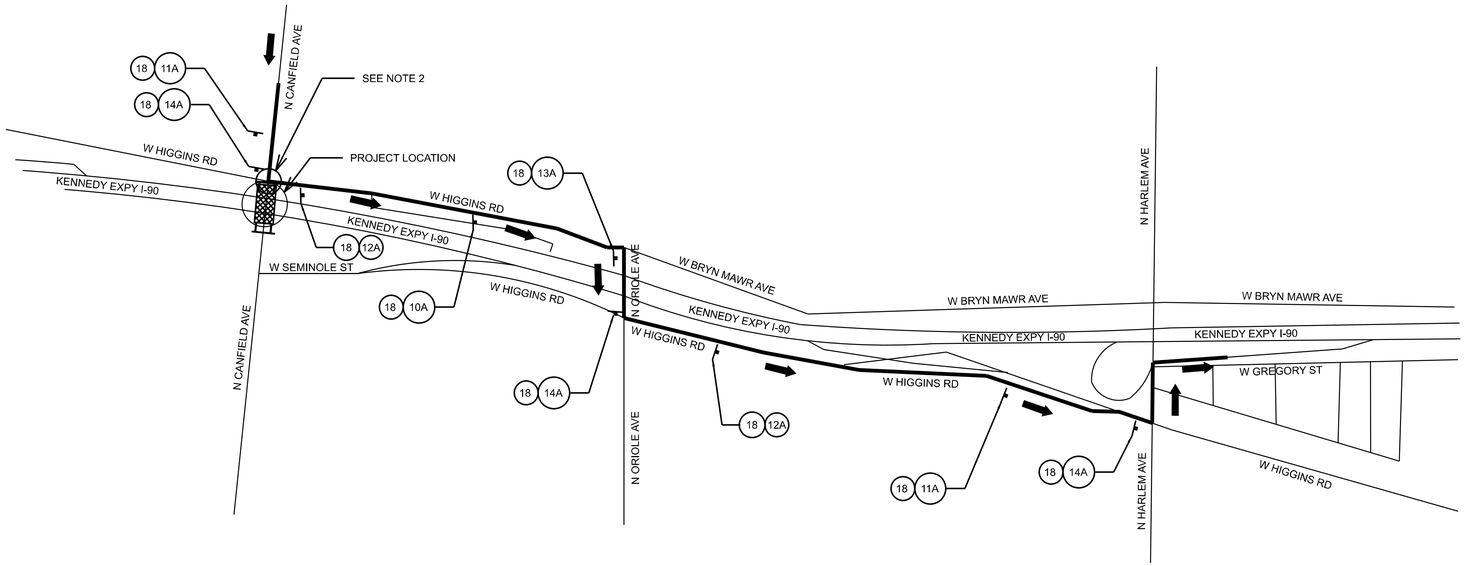
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - DETOUR PLAN

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	20
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

CANFIELD AVENUE TO EAST I-90 DETOUR



DETOUR PLAN LEGEND

- PROJECT AREA FOR DETOUR
- SIGN POST MOUNTED
- 19 2 3 — DETOUR SIGN TYPE
- DETOUR ROUTE
- TYPE III BARRICADES WITH TWO FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL TIMING

DETOUR ROUTE INFORMATION

N CANFIELD AVE - N CANFIELD AVE TO BRIDGE
JURISDICTION: IDOT
ADT: 13,400 (TWO-WAY)
2-LANE UNDIVIDED
TRAVEL DISTANCE: 0.1 MILE

W HIGGINS RD - N CANFIELD AVE TO N ORIOLE AVE
JURISDICTION: MUNICIPALITY
ADT: 9,800 (TWO-WAY)
4-LANE UNDIVIDED
TRAVEL DISTANCE: 0.35 MILES

N ORIOLE AVE - W HIGGINS RD TO SOUTH W HIGGINS RD
JURISDICTION: IDOT
ADT: 16,950 (TWO-WAY)
4-LANE UNDIVIDED
TRAVEL DISTANCE: 0.07 MILES

W HIGGINS RD - N ORIOLE AVE TO N HARLEM AVE
JURISDICTION: IDOT
ADT: 16,950 (TWO-WAY)
4-LANE UNDIVIDED
TRAVEL DISTANCE: 0.52 MILES

N HARLEM AVE - W HIGGINS RD TO W GREGORY ST
JURISDICTION: IDOT
ADT: 31,200 (TWO-WAY)
4-LANE UNDIVIDED
TRAVEL DISTANCE: 0.05 MILES

GREGORY ST - N HARLEM AVE TO I-90
JURISDICTION: MUNICIPALITY
ADT: 1,650 (ONE-WAY)
2-LANE UNDIVIDED
TRAVEL DISTANCE: 0.06 MILES

NOTES:

1. THE CONTRACTOR SHALL FOLLOW STANDARD (TC-21) FOR SIGN SPACING DETAIL.
2. THE RETIMING OF THIS SIGNAL IS INCLUDED IN THE PREVIOUS SHEET.

MODEL: DETOUR-3 [Sheet]
FILE NAME: J:\2026\60\01\D180C66\DGN\Sheets\d180c66-sht-detour.dgn

ABNA DESIGN FIRM REG. 184.002117

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	DRAWN - GA	REVISED - ####	
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PLOT DATE = 8/28/2026	DATE - 5/15/2026	REVISED - ####	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - DETOUR PLAN

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	21
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

####

SIGN LEGEND

1		W20-2(0) 4848
2		W20-3(0) 4848
3		R11-2 4830
4		W20-3(0) 4848
5		CUSTOM ROAD NAME SIGN WITH 6" MINIMUM UPPERCASE BLACK LETTERS ON ORANGE BACKGROUND
6		R11-3 6030
7		M4-8A(0) 2418
8		M4-10L(0) 4818
9		M4-10R(0) 4818
10		M4-9R-3030
11		M4-9L-3030
12		M4-9-3024
13		M4-9R-3024
14		M4-9L-3024
15		M3-1-2412
16		M3-3-2412
17		NOT USED
18		M4-8-2412 M4-5P-2412 M3-2-2412 M1-1-2424
10A		M5-1R-2115
11A		M5-1L-2115
12A		M6-3-2115
13A		M6-1-2115
14A		M6-1-2115

NOTES:

1. USE BLACK LETTERING ON FLUORESECNT ORANGE BACKGROUND UNLESS NOTED.
2. SIGNS FOR THE DETOUR ARE INCLUDED IN THE CONTRACT LUMP SUM COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. SIGN PLACEMENT SHALL BE DONE ACCORDING TO DISTRICT STANDARD TC-21. SEE DISTRICT DETAIL SHEETS.
4. ALL TRAFFIC SIGNS SHALL MEET WITH THE APPROVAL OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER, AND DURATION.
5. FOR TYPICAL SIGN INSTALLATION - SEE HIGHWAY STANDARD 701901.
6. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.
7. SIGNING FOR "TO EAST I-90" MUST FOLLOW TC-21. M4-9 SERIES SIGNS ARE NOT ALLOWED TO BE USED FOR MARKED ROUTES.

CUSTOM SIGN WITH 6" MINIMUM UPPERCASE LETTERS ON ORANGE BACKGROUND

19		R11-4 6030 R11-4 6030 M4-10L(0) 4818

* FOR DETOURS OF UNMARKED ROUTES, SIGNS SHALL BE MODIFIED TO USE THE M4-9 SIGN SERIES.

EX.



M3-2-2412

CUSTOM ROAD NAME SIGN WITH 5" MINIMUM UPPERCASE BLACK LETTERS ON ORANGE BACKGROUND

M4-9R-3030

MODEL: DETOUR-1 [Sheet]
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ABNA DESIGN FIRM REG. 184.002117

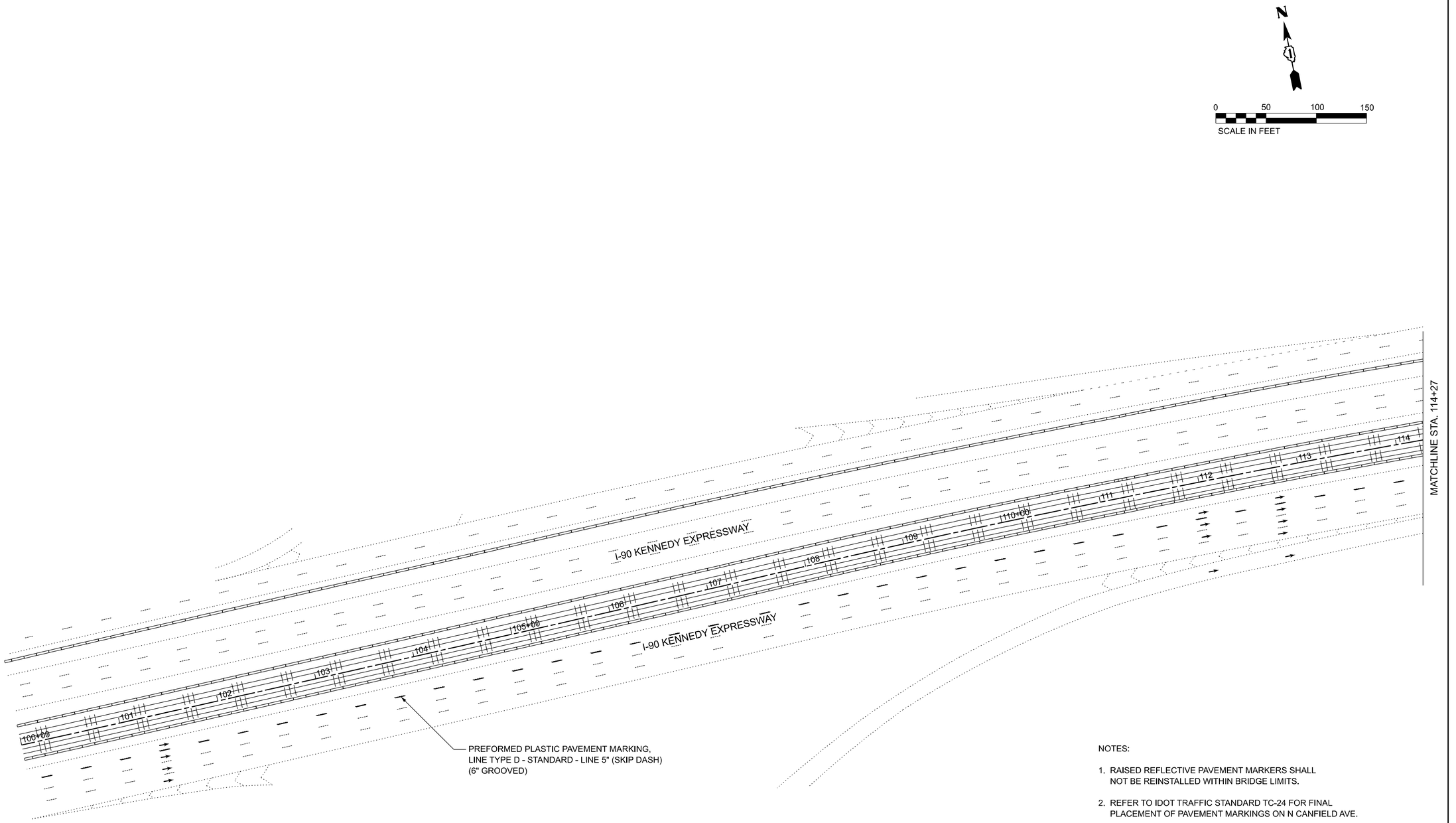
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PLOT DATE = 9/22/2026	DATE - 5/15/2026	REVISED - ####

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
MAINTENANCE OF TRAFFIC - DETOUR SIGNS

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	22
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE REINSTALLED WITHIN BRIDGE LIMITS.
2. REFER TO IDOT TRAFFIC STANDARD TC-24 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON N CANFIELD AVE.
3. REFER TO IDOT TRAFFIC STANDARD TC-13 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON IL 72 (HIGGINS RD).
4. REFER TO IDOT TRAFFIC STANDARD TC-12A AND 12B FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON I-90.

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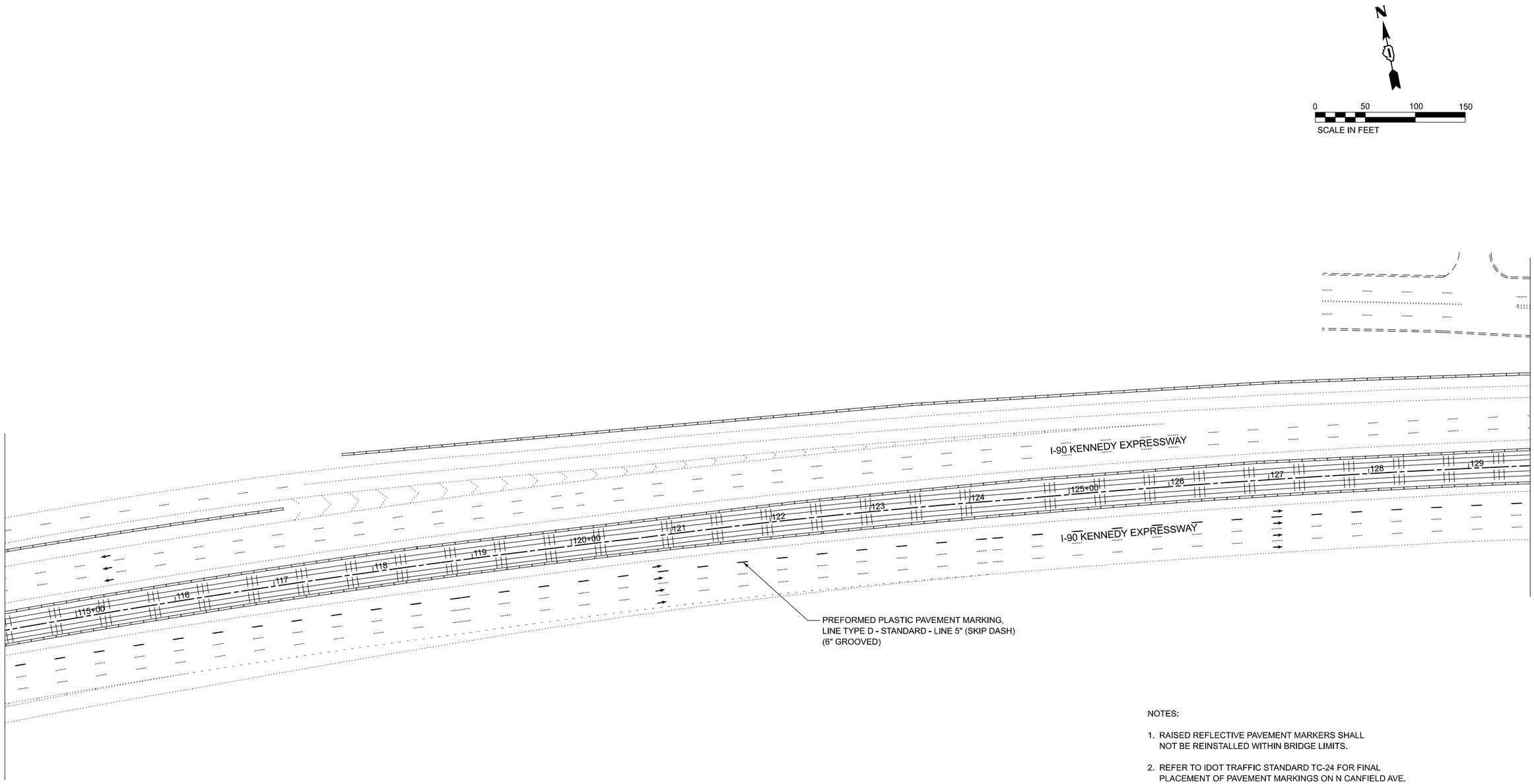
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PLOT DATE = 9/18/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
PAVEMENT MARKING PLANS

SCALE: 1"=50' | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	23
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE REINSTALLED WITHIN BRIDGE LIMITS.
2. REFER TO IDOT TRAFFIC STANDARD TC-24 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON N CANFIELD AVE.
3. REFER TO IDOT TRAFFIC STANDARD TC-13 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON IL 72 (HIGGINS RD).
4. REFER TO IDOT TRAFFIC STANDARD TC-12A AND 12B FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON I-90.

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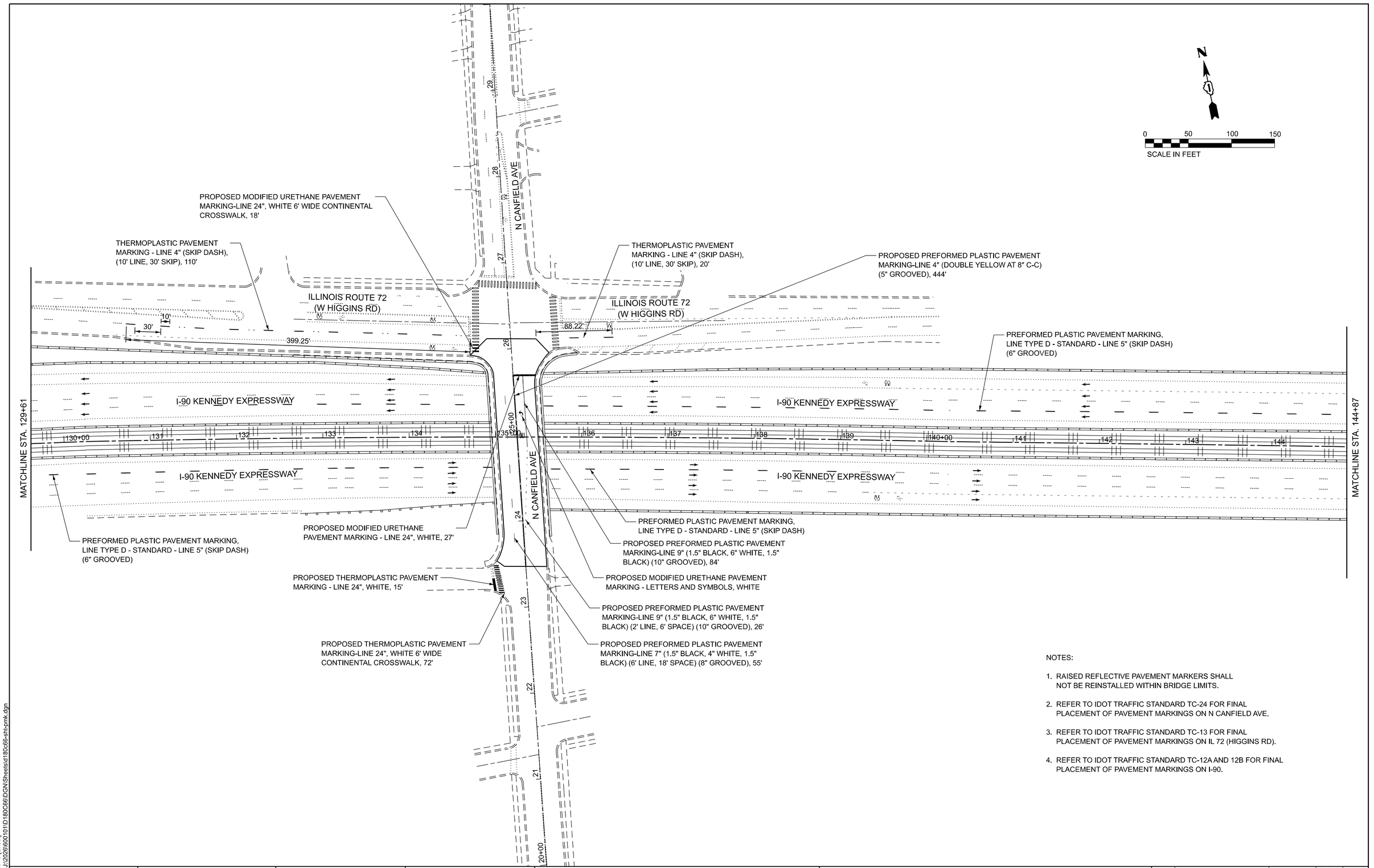
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
PAVEMENT MARKING PLANS

SCALE: 1"=50' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	24
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE REINSTALLED WITHIN BRIDGE LIMITS.
2. REFER TO IDOT TRAFFIC STANDARD TC-24 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON N CANFIELD AVE.
3. REFER TO IDOT TRAFFIC STANDARD TC-13 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON IL 72 (HIGGINS RD).
4. REFER TO IDOT TRAFFIC STANDARD TC-12A AND 12B FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON I-90.

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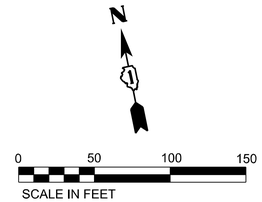
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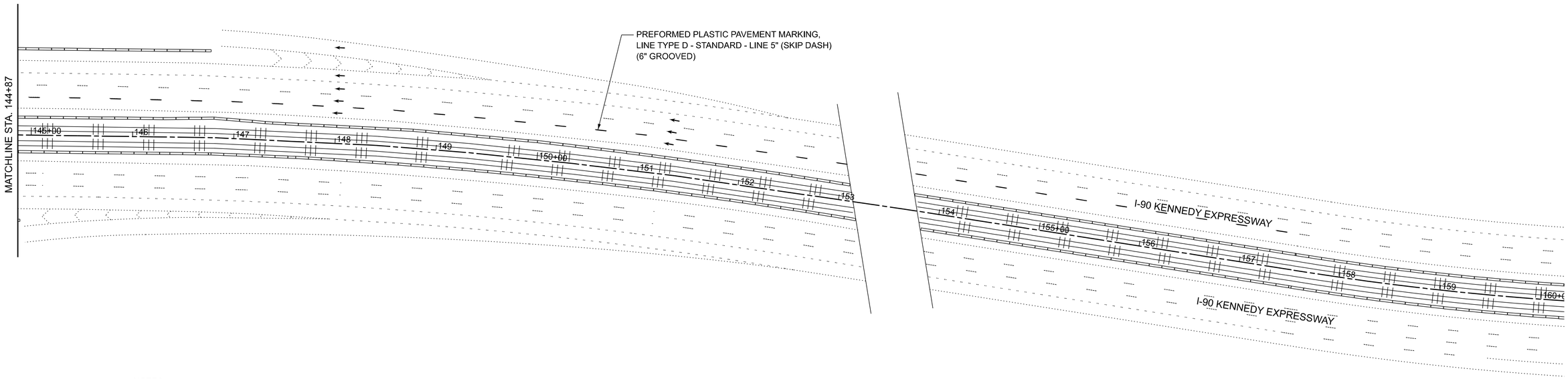
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
PAVEMENT MARKING PLANS

SCALE: 1"=50' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	25
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		





NOTES:

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE REINSTALLED WITHIN BRIDGE LIMITS.

2. REFER TO IDOT TRAFFIC STANDARD TC-24 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON N CANFIELD AVE.

3. REFER TO IDOT TRAFFIC STANDARD TC-13 FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON IL 72 (HIGGINS RD).

4. REFER TO IDOT TRAFFIC STANDARD TC-12A AND 12B FOR FINAL PLACEMENT OF PAVEMENT MARKINGS ON I-90.

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PLOT DATE = 7/24/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
PAVEMENT MARKING PLANS

SCALE: 1"=50' | SHEET 4 OF 4 SHEETS | STA. | TO STA.

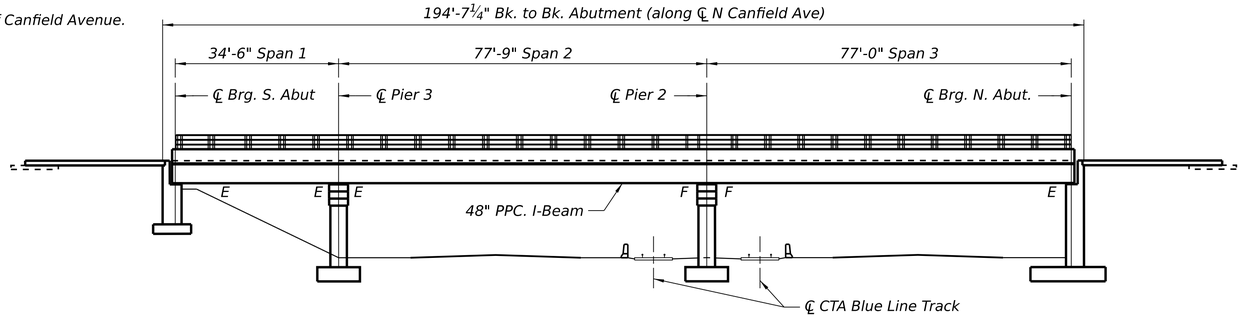
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	26
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

Benchmark: Top of chain bolt of fire hydrant at Southwest corner of Higgins Road and Canfield Avenue. El. 656.66

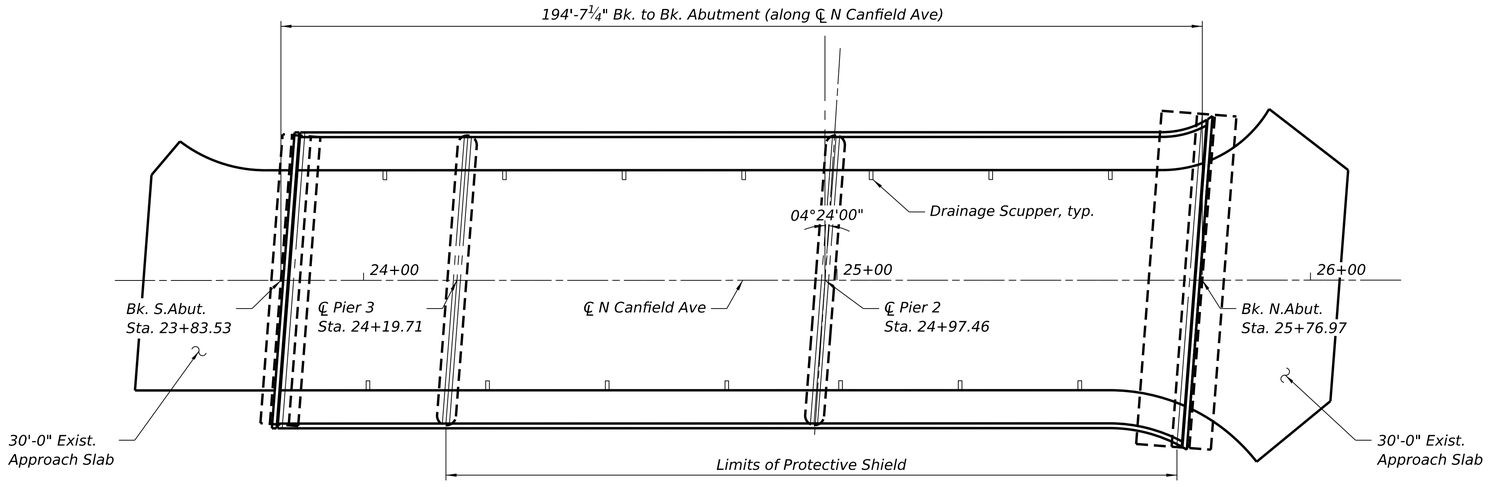
Existing Structure: The existing structure, S.N. 016-0707, was built in 1958. The structure was modified in 2001 with a span configuration change and redecking. The structure has a back-to-back abutment length of 194.6 ft. and an out-to-out width of 62.5 ft. The superstructure consists of a 7½ in. thick reinforced concrete deck and is supported by 48" PPC beams on stub and closed abutments and multi-column piers.

Traffic: The work shall be done under detour of Canfield Avenue.

Salvage: None



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

EXISTING FIELD UNITS

f 'c = 3,000 psi (Original)
fy = 40,000 psi (Reinforcement, Original)
f 'c = 3,500 psi (Rehab)
fy = 60,000 psi (Reinforcement, Rehab)

EXISTING PRECAST PRESTRESSED UNITS (ORIGINAL)

f 'c = 5,000 psi (Prestressed Units)
f 'ci = 2,400 psi (Prestressed Units)
f'si = 175,000 psi (1/2" ∅ Low Relaxation Strands)
f-s = 248,000 psi (1/2" ∅ Low Relaxation Strands)

EXISTING PRECAST PRESTRESSED UNITS (REHAB)

f 'c = 6,000 psi (Prestressed Units)
f 'ci = 5,000 psi (Prestressed Units)
f'si = 201,960 psi (1/2" ∅ Low Relaxation Strands)
f-s = 270,000 psi (1/2" ∅ Low Relaxation Strands)

PROPOSED FIELD UNITS

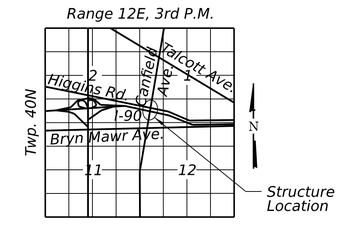
f 'c = 4,000 psi (Superstructure)
f 'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

SCOPE OF WORK

1. *Install protective shield under spans 2 and 3*
2. *Install new preformed joint strip seal at abutments*
3. *Repair bridge deck and approach slabs*
4. *Scarify deck surface ¾", place 2¾" latex concrete overlay and diamond grind ¼" on deck*
5. *Apply protective coat to the top surface of deck*
6. *Apply concrete sealer to existing surface of sidewalk and top/inside surface of existing parapets*
7. *Replace expansion joints*
8. *Clean entire drainage system of structure*
9. *Clean and paint exposed steel portion of the bearings under PPC beams at S. Abutment, Pier 2, Pier 3 and N. Abutment*
10. *Select repair of the PPC beams*
11. *Perform concrete repairs to the substructure*

TIMOTHY C. GAL
081-006644
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

Expires: 11/30/2026
Date: 7/27/2026



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
CANFIELD AVENUE (FAU 2761) OVER JOHN F. KENNEDY EXPRESSWAY, FAI-90
SECTION 1515B
COOK COUNTY
STATION 24+80.25
STRUCTURE NO. 016-0707

MODEL: Default
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EPSTEIN

USER NAME =	DESIGNED - KC	REVISED -	
	CHECKED - TCG	REVISED -	
PLOT SCALE =	DRAWN - KC	REVISED -	
PLOT DATE =	CHECKED - TCG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-0707
SHEET S-1 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	27
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.

Protective Coat shall be applied to the top of deck.

A film forming Concrete Sealer shall be applied to existing surface of sidewalk and top/inside surface of existing parapets.

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

Cleaning and painting of the existing and new structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning – SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all bearing steel surfaces shall be Gray, Munsell No. 5B 7/1.

The minimum thickness of the concrete overlay shall be 2¾" and varies as required to adjust for the existing profile grade and beam camber.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

INDEX OF SHEETS

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S-2	General Data
S-3	Deck Sections
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S-7	South Abutment Expansion Joint Removal Details
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S-25	Select Existing Plans - 7
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S-30	Select Existing Plans - 12
S-31	Select Existing Plans - 13
S-32	Select Existing Plans - 14
S-33	Select Existing Plans - 15
S-34	Select Existing Plans - 16

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Materials (Tack Coat)	Pound	166		166
Hot-Mix Asphalt Surface Course, IL9.5, Mix "D", N70	Ton	42		42
Concrete Removal	Cu. Yd.	8.5		8.5
Protective Shield	Sq. Yd.	1,075		1,075
Concrete Superstructure	Cu. Yd.	9.8		9.8
Protective Coat	Sq. Yd.	1,000		1,000
Reinforcement Bars, Epoxy Coated	Pound	1,420		1,420
Preformed Joint Strip Seal	Foot	132.5		132.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1		1
Bridge Deck Latex Concrete Overlay, 2¾"	Sq. Yd.	1,000		1,000
Bridge Deck Scarification, ¾"	Sq. Yd.	1,000		1,000
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.		318	318
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.		10	10
Concrete Sealer	Sq. Yd.	5,047		5,047
Acrylic Coating	Sq. Yd.	80		80
Fiber Wrap	Sq. Ft.	859		859
Clean and Reseal Relief Joint	Foot	136		136
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,000		1,000
Cleaning and Painting Bearings	Each	60		60
Cleaning Drainage System	L. Sum	1		1
Drainage Scuppers To Be Adjusted	Each	14		14
Approach Slab Repair (Full Depth)	Sq. Yd.	3		3
Approach Slab Repair (Partial Depth)	Sq. Yd.	8		8
Concrete Pavement Scarification	Sq. Yd.	320		320
Diamond Grinding (Bridge Section)	Sq. Yd.	1,000		1,000
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	714		714
Temporary Shoring and Cribbing	Each		2	2

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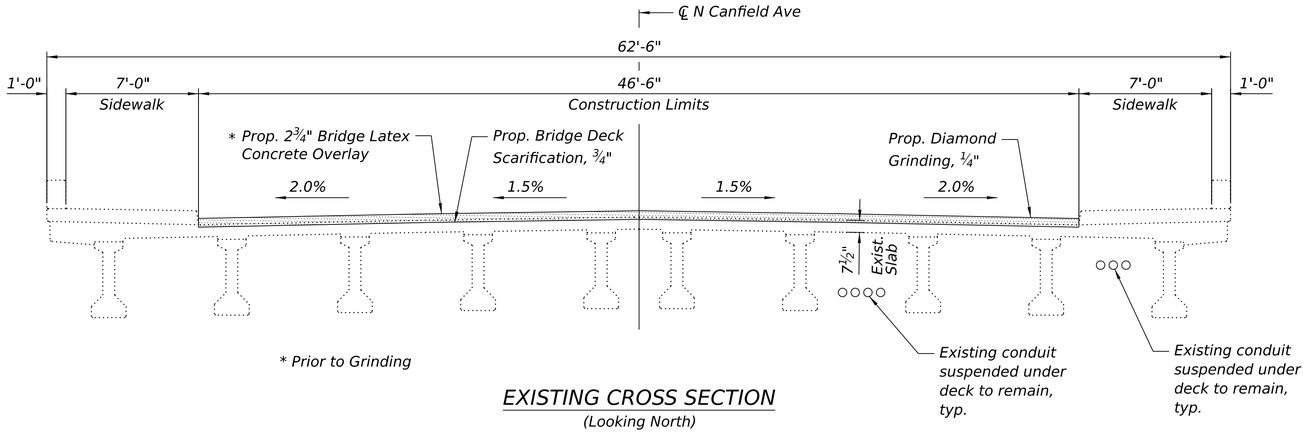
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-0707
SHEET S-2 OF S-34 SHEETS

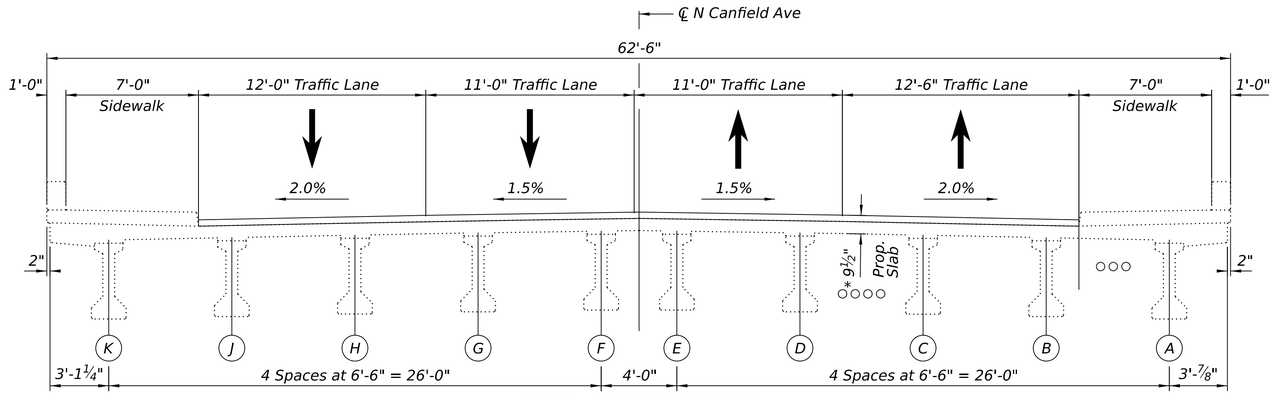
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	28
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



* Prior to Grinding

EXISTING CROSS SECTION

(Looking North)



FINAL CROSS SECTION

(Looking North)

* Prior to Grinding

LEGEND

Bridge Latex Concrete Overlay, 2¾"
Bridge Deck Scarification, ¾"

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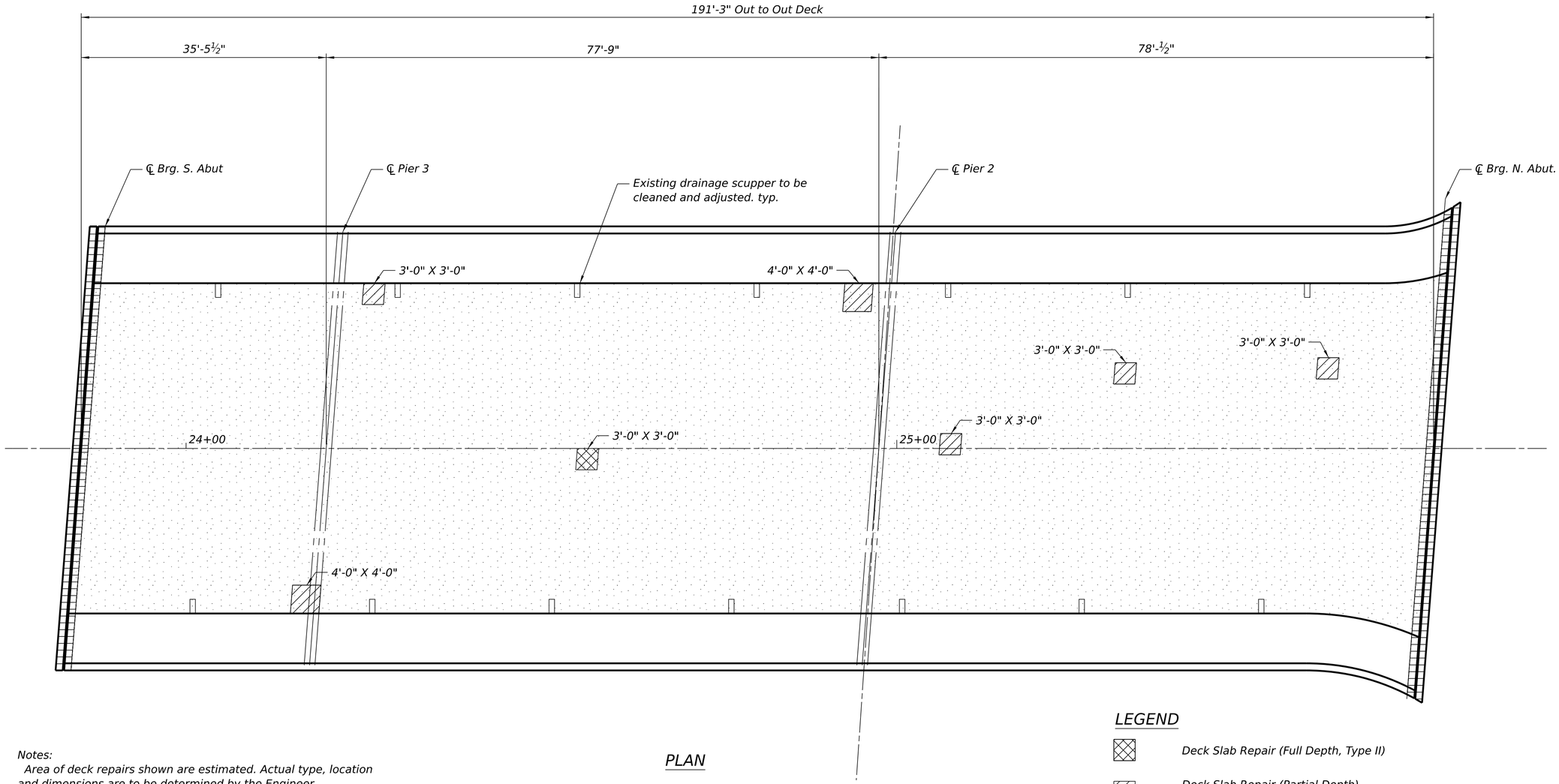
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SECTIONS
STRUCTURE NO. 016-0707
SHEET S-3 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	29
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



PLAN

Notes:

Area of deck repairs shown are estimated. Actual type, location and dimensions are to be determined by the Engineer.

Protective coat shall be applied to the top surface of the deck latex overlay.

The Engineer shall show actual locations and size of deck repairs on As-built Plans.

Areas of Deck Slab Repair (Partial Depth) are provide for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, $2\frac{3}{4}$".

Perform Raised Reflective Pavement Marker Removal. Any partial deck repaires required due to removal of existing raised reflective pavement markers shall be included in the cost of Bridge Deck Latex Concrete Overlay, $2\frac{3}{4}$".

LEGEND

- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial Depth) for information only
- Bridge Deck Latex Concrete Overlay, $2\frac{3}{4}$"
  Bridge Deck Scarification, ¾"
- Joint Replacement (see sheets S-7 thru S-10)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1
Bridge Deck Latex Concrete Overlay, $2\frac{3}{4}$"	Sq. Yd.	1,000
Bridge Deck Scarification, ¾"	Sq. Yd.	1,000

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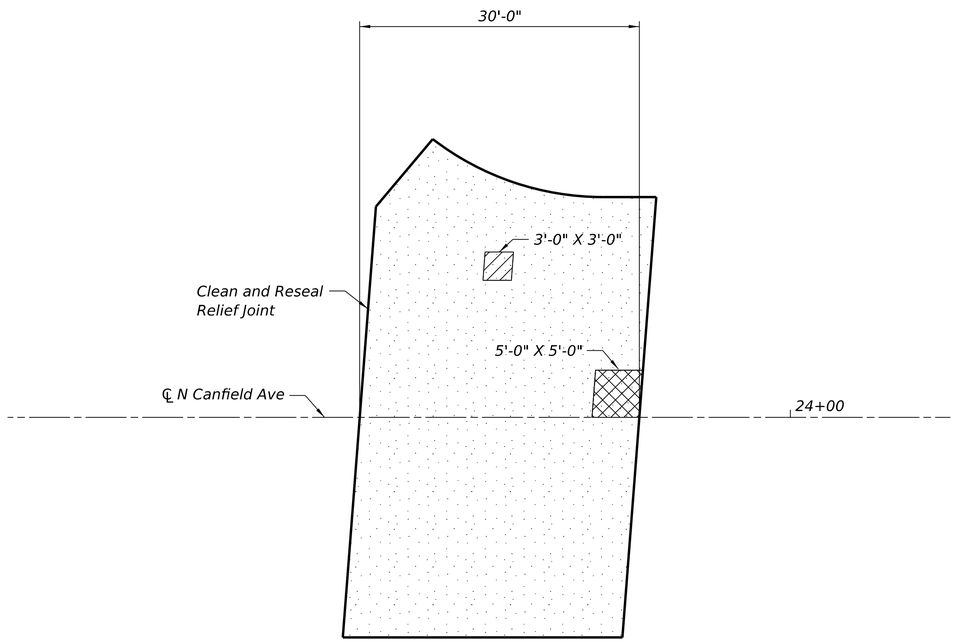
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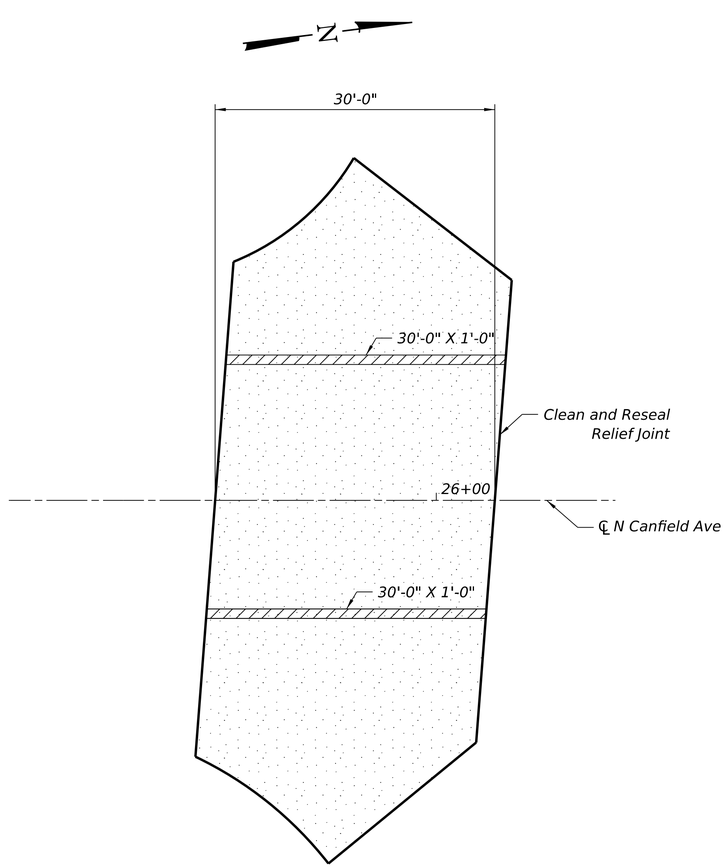
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN
STRUCTURE NO. 016-0707
SHEET S-4 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	ILLINOIS	FED. AID PROJECT		

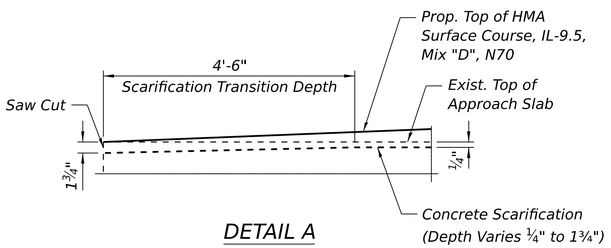


SOUTH APPROACH SLAB

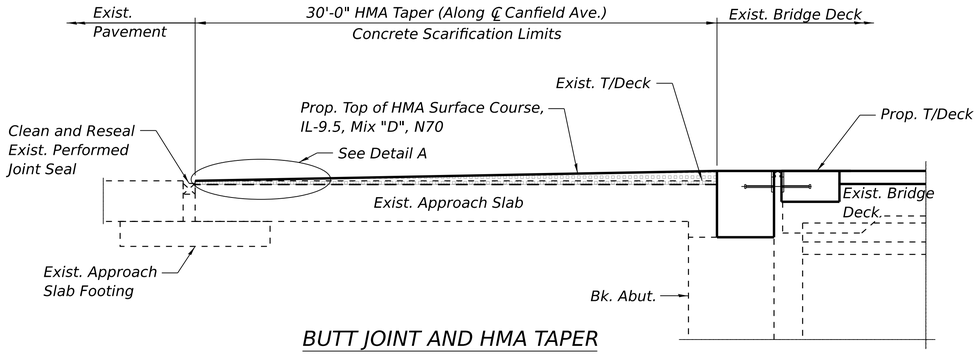


NORTH APPROACH SLAB

PLAN



DETAIL A



BUTT JOINT AND HMA TAPER
FOR APPROACH SLAB

LEGEND

- Approach Slab Repair (Full Depth)
- Approach Slab Repair (Partial Depth)
- HMA Overlay on Approach Slab Concrete Pavement Scarification

Notes:

Area of approach slab repairs shown are estimated. Actual type, location and dimensions are to be determined by the Engineer.

The Engineer shall show actual locations and size of approach slab repairs on As-built Plans.

Perform Raised Reflective Pavement Marker Removal and Replacement. Any repaires required due to removal of existing raised reflective pavement markers shall be included in the cost of Concrete Pavement Scarification.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Pavement Scarification	Sq. Yd.	320
Approach Slab Repair (Partial Depth)	Sq. Yd.	8
Approach Slab Repair (Full Depth)	Sq. Yd.	3
Clean and Reseal Relief Joint	Foot	136

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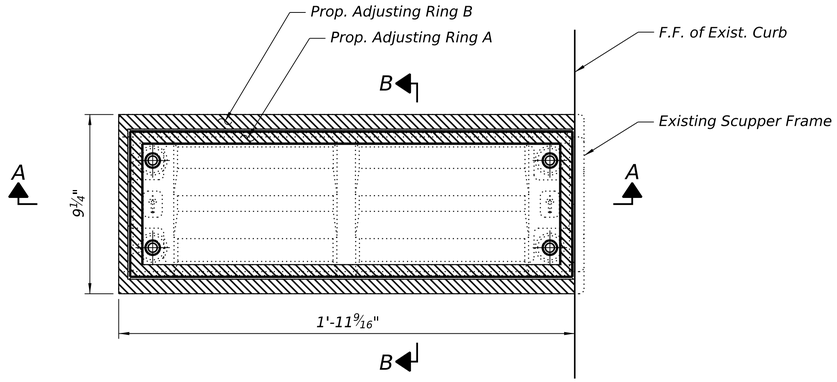
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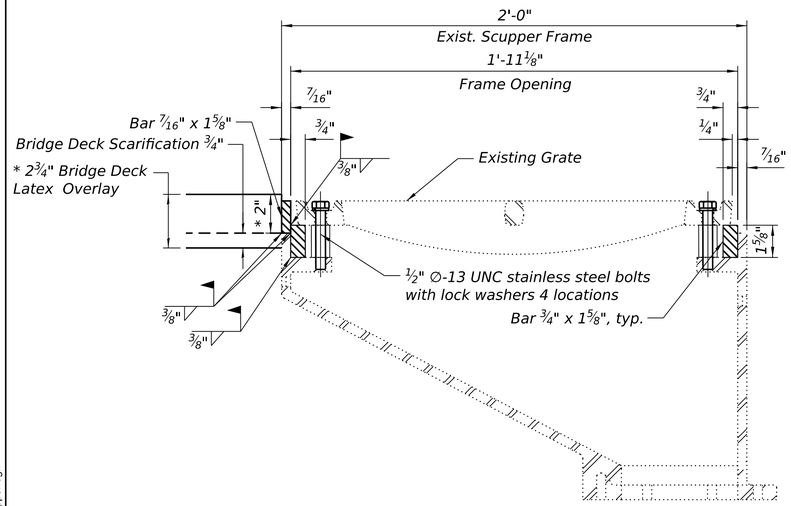
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH PLAN
STRUCTURE NO. 016-0707
SHEET S-5 OF S-34 SHEETS

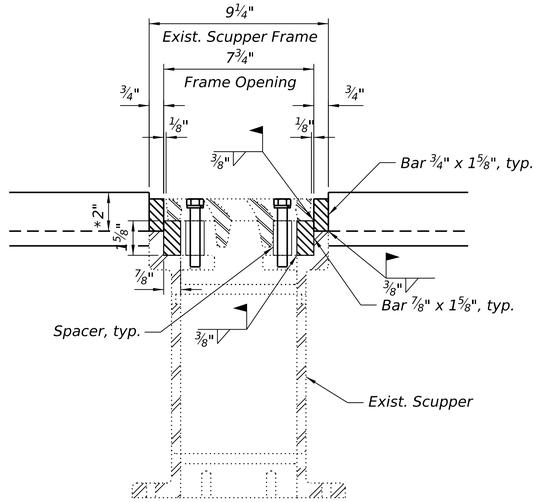
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	31
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A



SECTION B-B

* Prior to grinding

Notes:

The Contractor shall field verify existing dimensions and details of the existing scuppers and make necessary adjustments prior to the construction and ordering of material for adjusting drainage scupper.

All new bars to be structural steel and conform to AASHT0 M-270, Grade 36.

The adjusting bars shall be galvinized according to AASHTO M111 and ASTM A385.

Bolts, washers, and nuts shall conform to the requirements of ASTM A 307 and shall be galvinized according to AASHTO M232.

The Contractor shall ensure that no damage is done to existing grates to be reused. If grate is damaged, Contractor to replace the grate at his own cost.

All labor and material necessary to remove the existing grate, clean the existing scupper, furnish and install adjusting bars, and reinstall the existing grate are included in the cost of Drainage Scupper to be Adjusted.

All new steel bars are to be welded together to form a rectangular frame before galvanizing.

BILL OF MATERIAL

Item	Unit	Quantity
Drainage Scuppers to be Adjusted	Each	14

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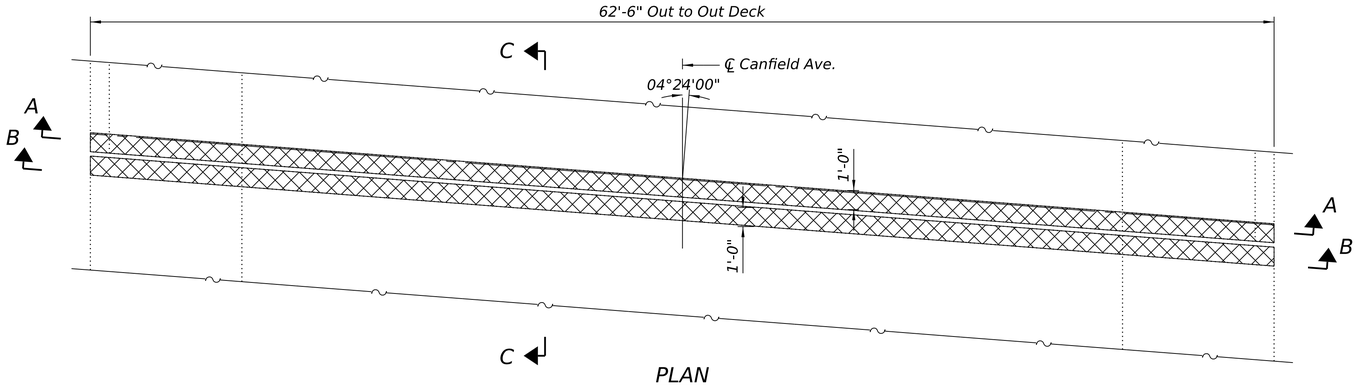
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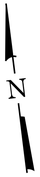
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DEPARTMENT OF TRANSPORTATION

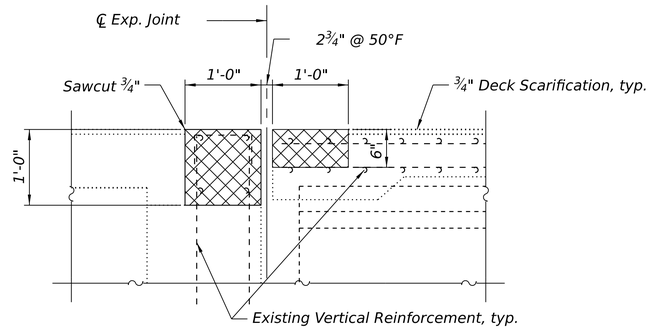
DRAINAGE SCUPPER ADJUSTMENT DETAILS
STRUCTURE NO. 016-0707
SHEET S-6 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

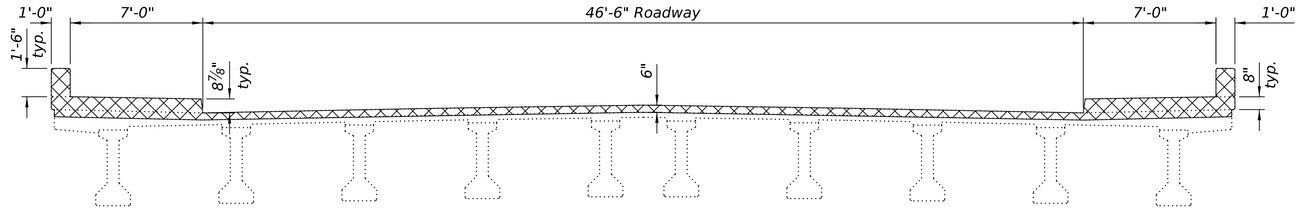


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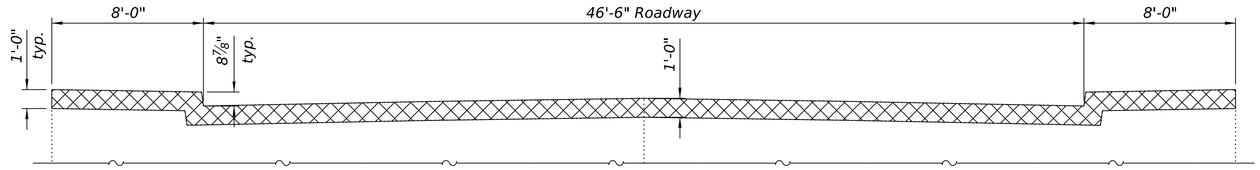




SECTION C-C
(Dimensions at Rt. L's)



SECTION A-A
(Dimensions at Rt. L's)



SECTION B-B
(Dimensions at Rt. L's)

Notes:
Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.
Contractor shall protect all existing railing posts to remain. Perform selective demolition as required to remove adjacent materials without damaging, loosening, or misaligning posts. Provide temporary bracing and protective measures as necessary. Any damage to posts or anchorage caused by construction activities shall be repaired or replaced at no additional cost."

LEGEND

Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	4.1

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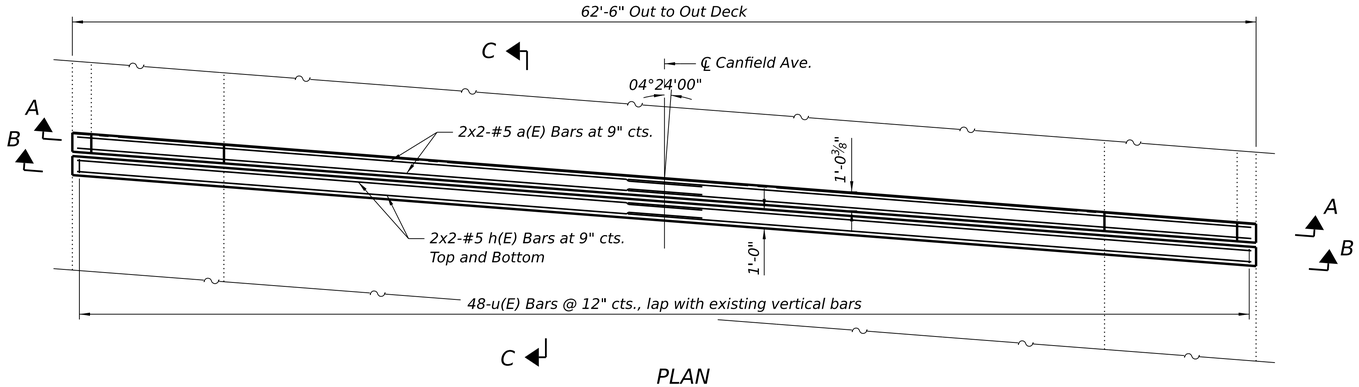
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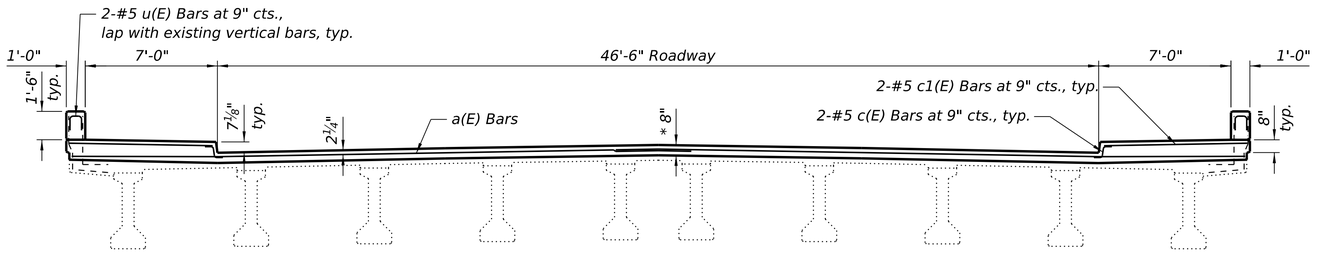
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT EXPANSION JOINT REMOVAL DETAILS
STRUCTURE NO. 016-0707
SHEET S-7 OF S-34 SHEETS

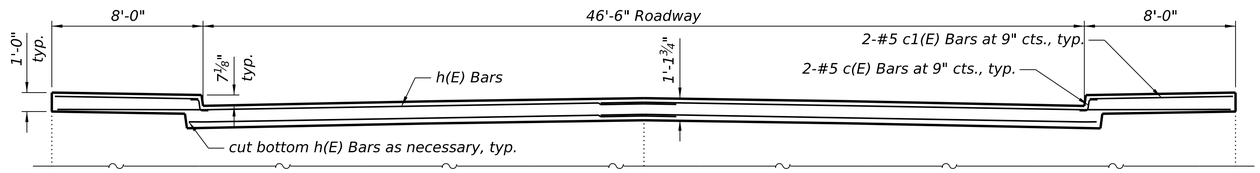
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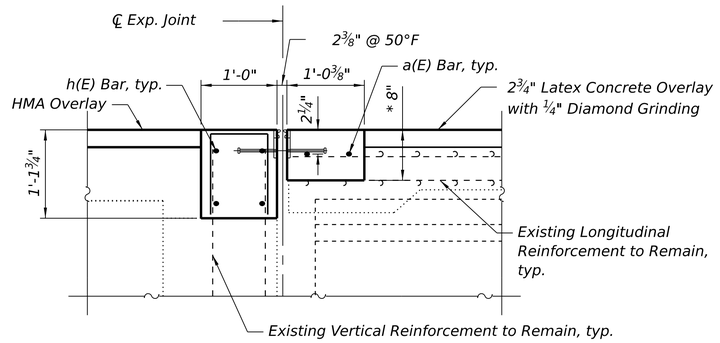
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(Dimensions at Rt. L's)



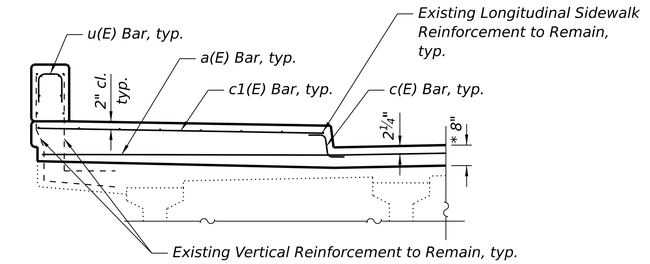
SECTION A-A
(Dimensions at Rt. L's)



SECTION B-B
(Dimensions at Rt. L's)

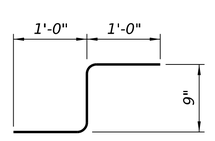


SECTION C-C
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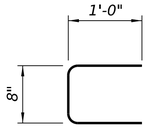


SECTION THROUGH PARAPET
(Dimensions at Rt. L's)

* Prior to grinding



BAR c(E)



BAR u(E)

MIN. BAR LAP
#5 Bar = 3'-5"

Note:
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	33'-0"	
c(E)	8	#5	2'-9"	
c1(E)	8	#5	7'-8"	
h(E)	8	#5	33'-0"	
u(E)	52	#5	2'-8"	
Reinforcement Bars, Epoxy Coated			Lbs.	650
Concrete Superstructure			Cu. Yds.	4.8

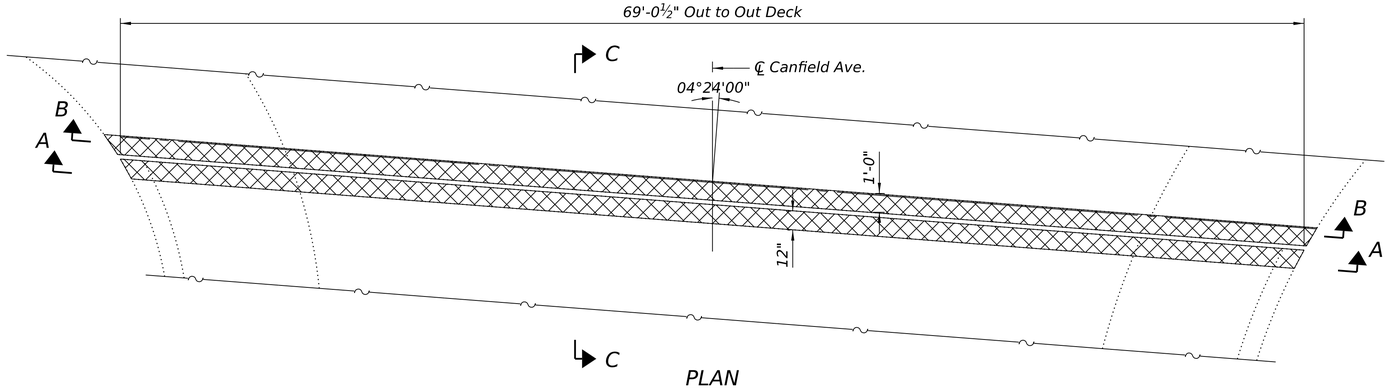
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

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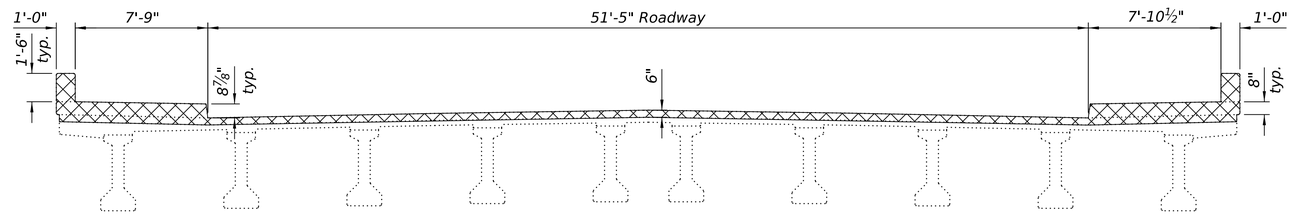
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		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

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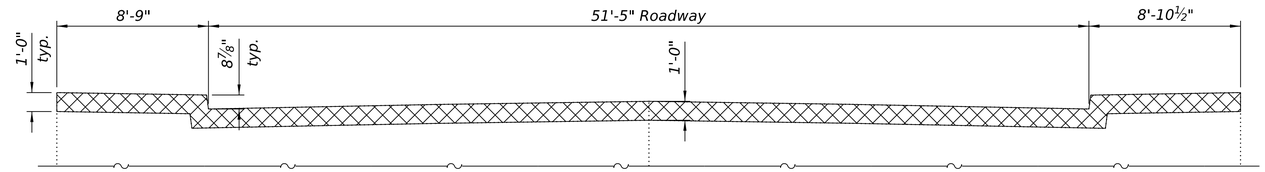
PLAN

(Dimensions at Rt. L's)



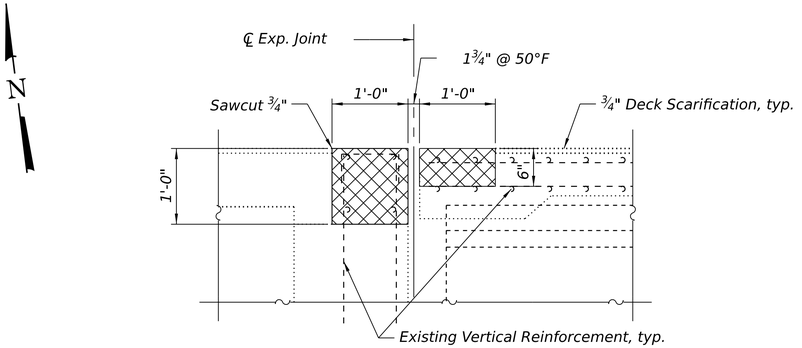
SECTION A-A

(Dimensions at Rt. L's)



SECTION B-B

(Dimensions at Rt. L's)



SECTION C-C

(Dimensions at Rt. L's)

Notes:

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractor's expense.

Contractor shall protect all existing railing posts to remain. Perform selective demolition as required to remove adjacent materials without damaging, loosening, or misaligning posts. Provide temporary bracing and protective measures as necessary. Any damage to posts or anchorage caused by construction activities shall be repaired or replaced at no additional cost."

LEGEND

Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	4.4

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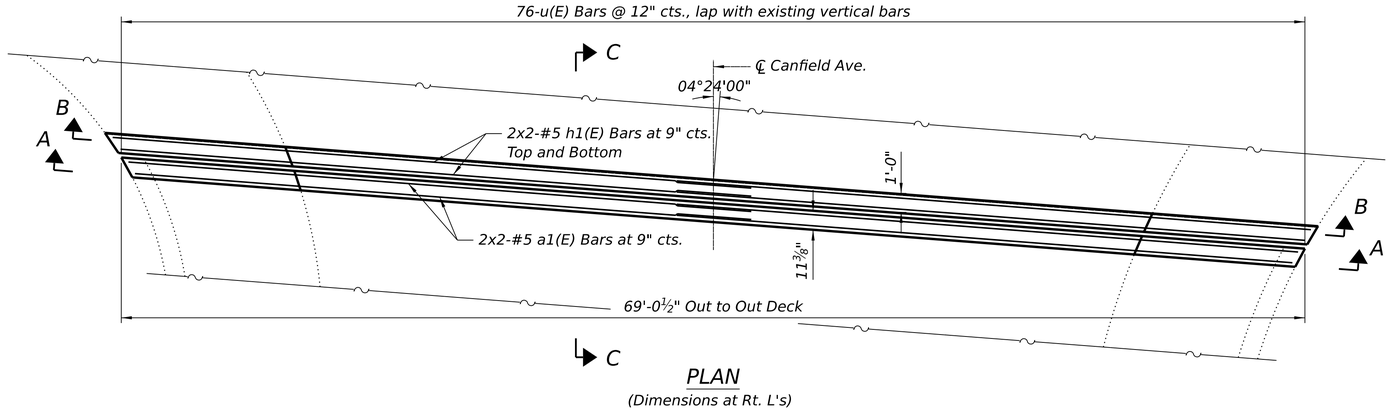
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT EXPANSION JOINT REMOVAL DETAILS
STRUCTURE NO. 016-0707

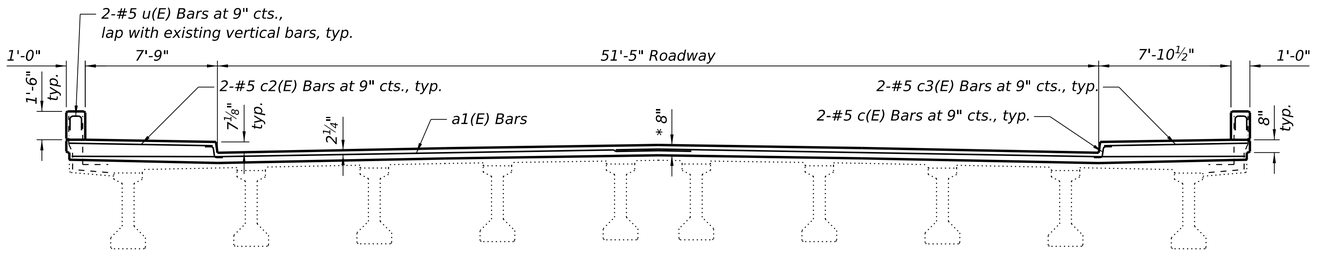
SHEET S-9 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	35
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



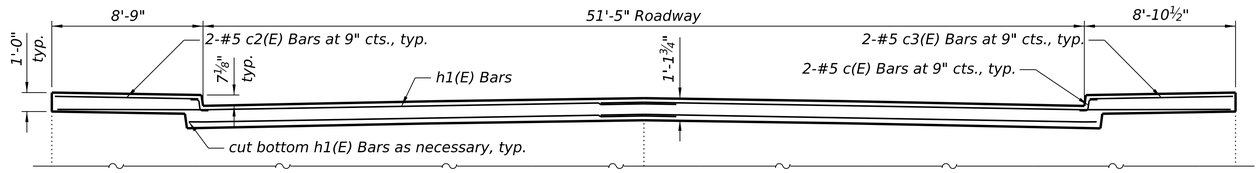
PLAN

(Dimensions at Rt. L's)



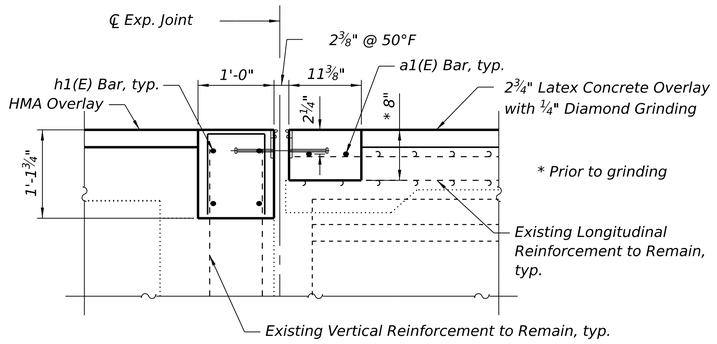
SECTION A-A

(Dimensions at Rt. L's)



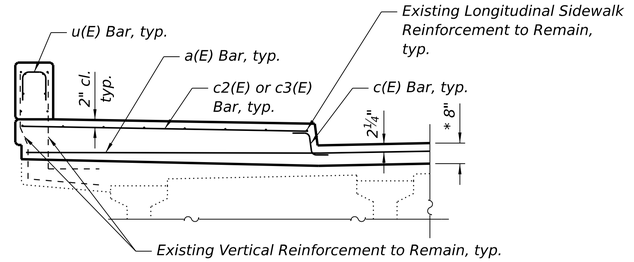
SECTION B-B

(Dimensions at Rt. L's)



SECTION C-C

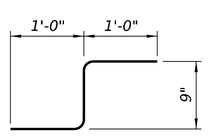
(Dimensions at Rt. L's)



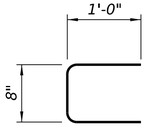
SECTION THROUGH PARAPET

(Dimensions at Rt. L's)

* Prior to grinding



BAR c(E)



BAR u(E)

MIN. BAR LAP

#5 Bar = 3'-5"

Note:
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	4	#5	36'-0"	
c(E)	8	#5	2'-9"	
c2(E)	4	#5	8'-7"	
c3(E)	4	#5	8'-2"	
h1(E)	8	#5	36'-0"	
u(E)	80	#5	2'-8"	
Reinforcement Bars, Epoxy Coated			Lbs.	770
Concrete Superstructure			Cu. Yds.	5.0

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

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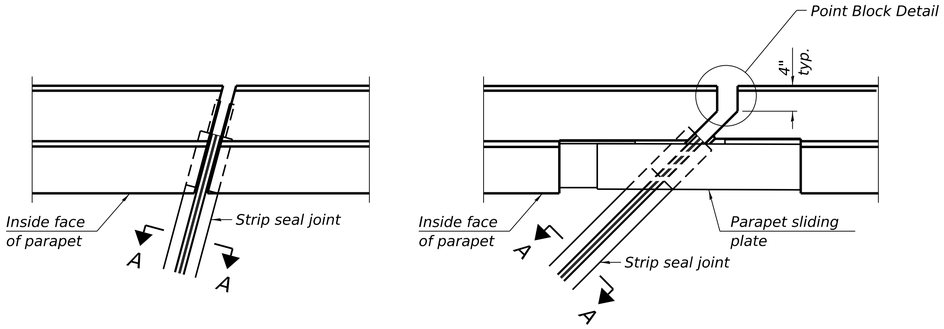
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT EXPANSION JOINT DETAILS
STRUCTURE NO. 016-0707
SHEET S-10 OF S-34 SHEETS

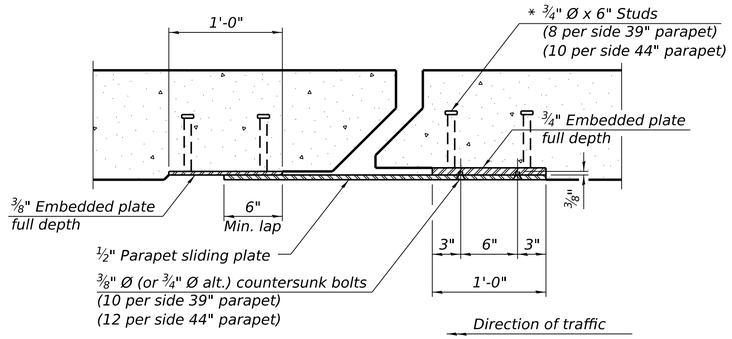
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515,F-15D) BJR, BDR 25	COOK	72	36
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



FOR SKEWS ≤ 30°

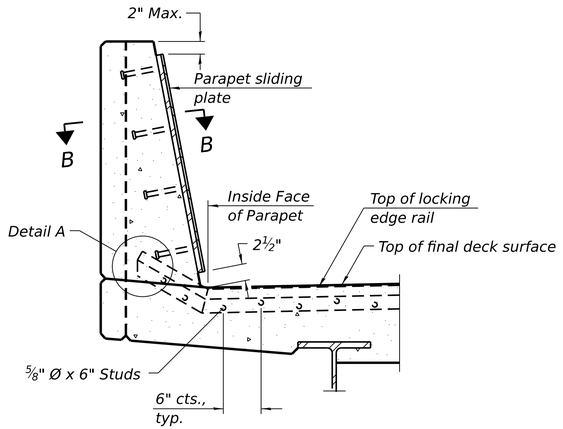
FOR SKEWS > 30°

PLAN AT PARAPET



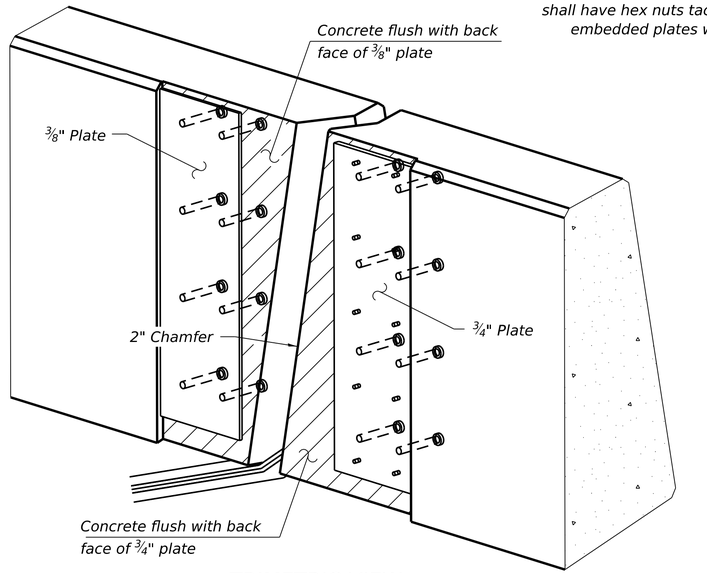
SECTION B-B

(¾" Ø countersunk bolts extending into concrete shall have hex nuts tack welded to the back of the embedded plates with end caps provided.)



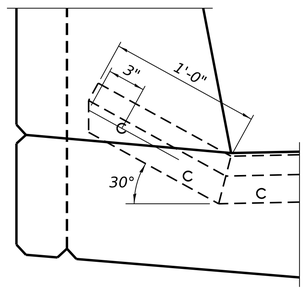
SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



TRIMETRIC VIEW

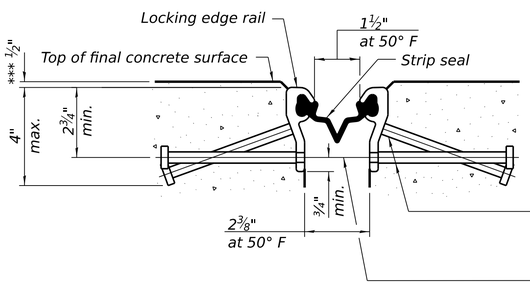
(Showing embedded plates only)



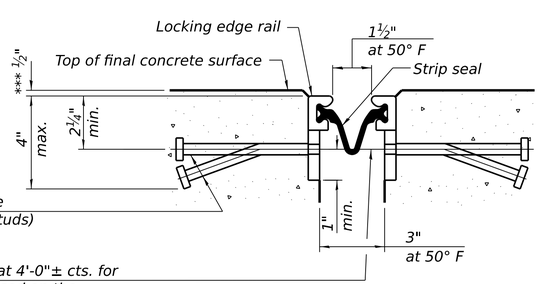
DETAIL A

(Kick-up at parapet locations shown. See sheet of for kick-up at curb locations.)

*** Prior to ¼" diamond grinding



SHOWING ROLLED RAIL JOINT



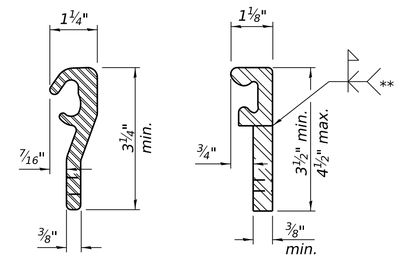
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

⅜" Ø threaded rods in 7/16" Ø holes at 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 within 90 minutes 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.

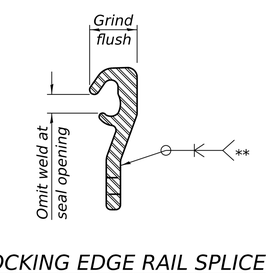


ROLLED (EXTRUDED) RAIL

WELDED RAIL

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.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	132.5

EJ-SS-S 10-3-2025

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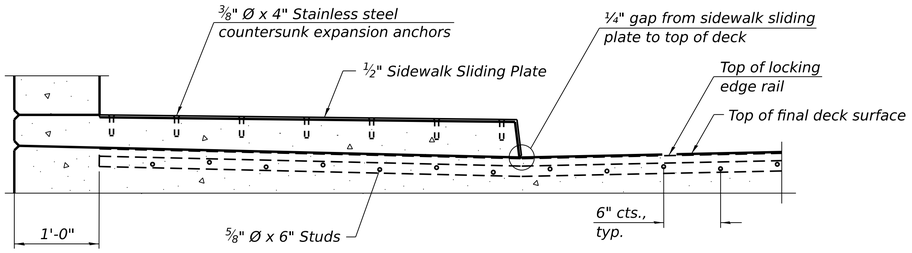
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

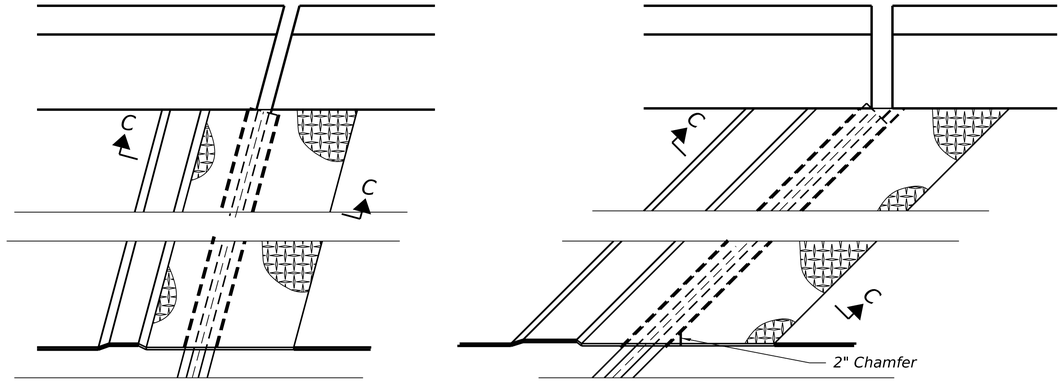
PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 016-0707

SHEET S-11 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



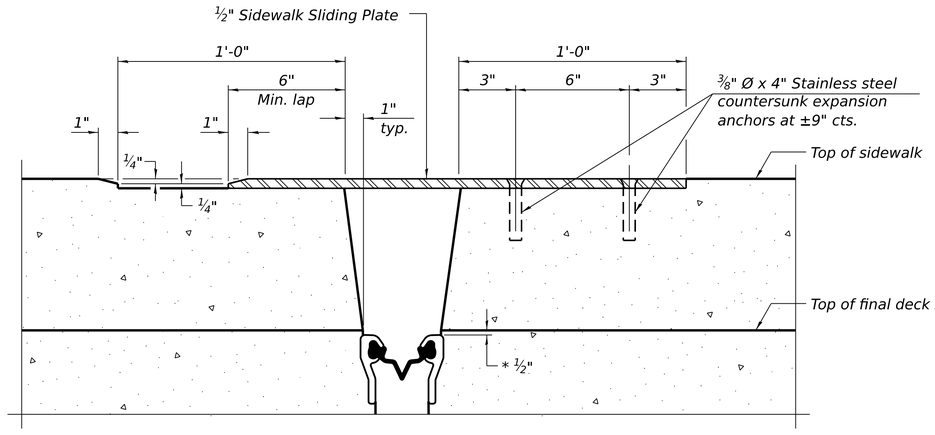
SECTION AT RAISED SIDEWALK



(FOR SKEWS ≤ 30°)

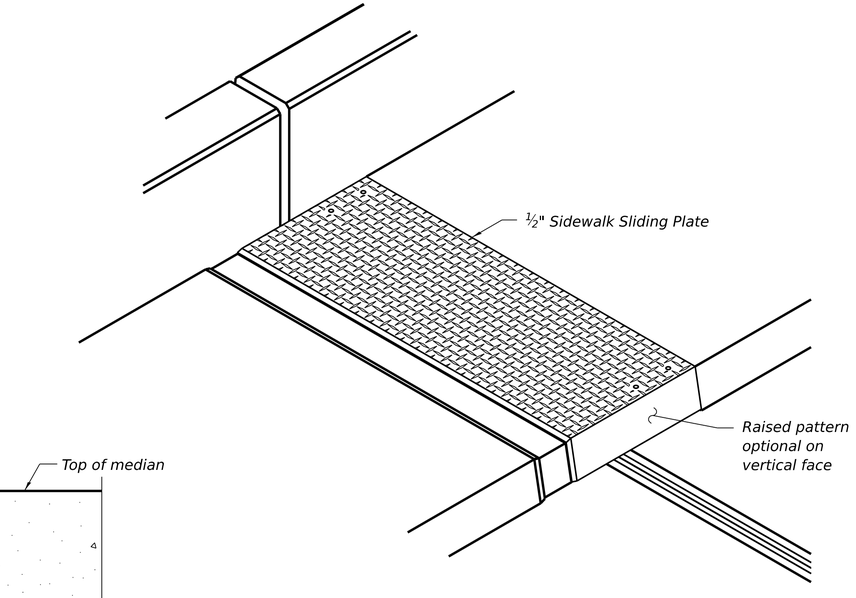
(FOR SKEWS > 30°)

PLAN AT RAISED SIDEWALK

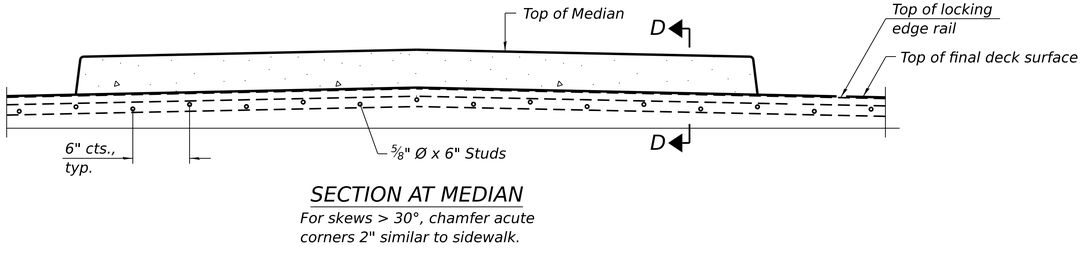


SECTION C-C

* Prior to 1/4" diamond grinding

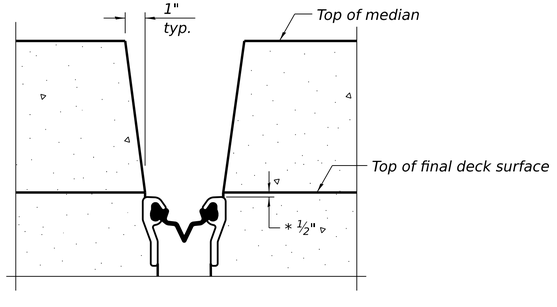


TRIMETRIC VIEW



SECTION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



SECTION D-D

(at Rt. ∠'s)

EJ-SS-S

10-3-2025

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	CHECKED - TCG	REVISED -	
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PLOT DATE =	CHECKED - TCG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 016-0707

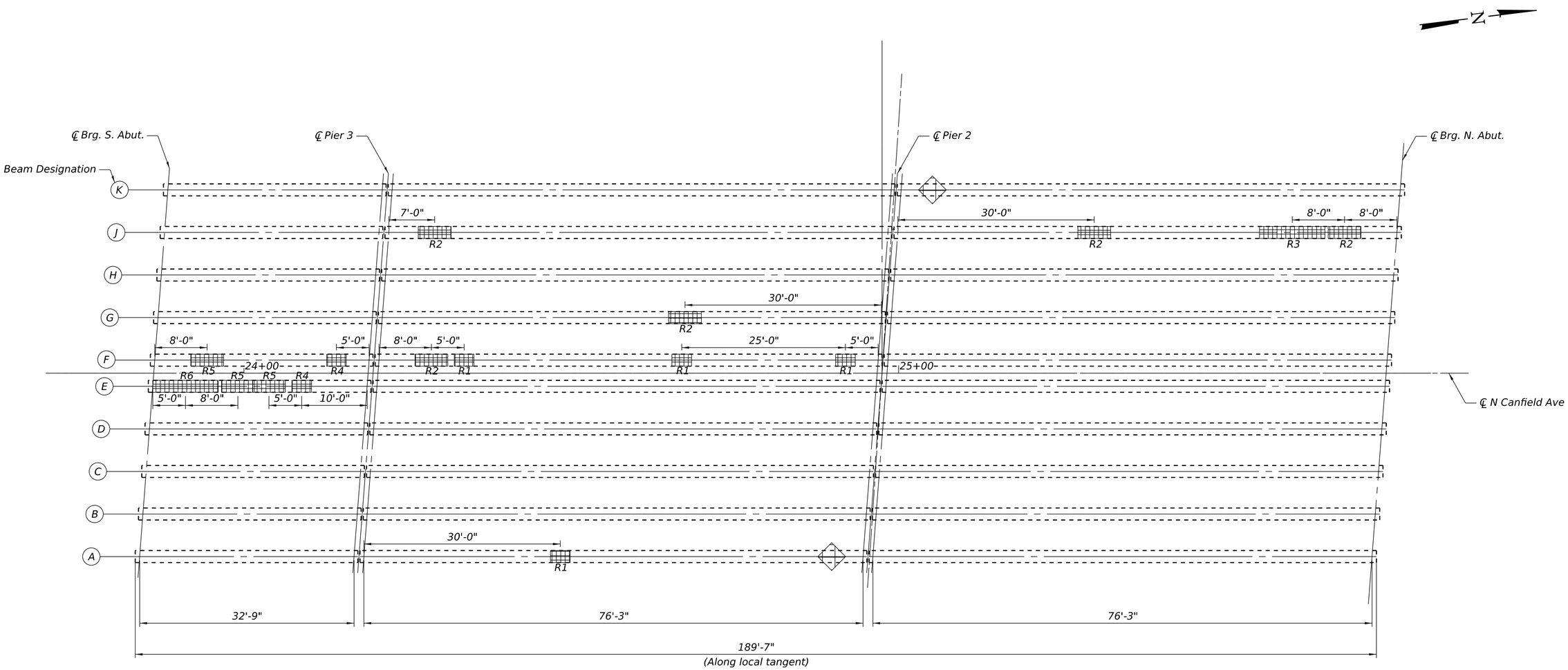
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	ILLINOIS	FED. AID PROJECT		

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PLAN

LEGEND

PPC I-Beam Repair

Suggested Area for Temporary Shoring

Notes:
See Beam Repair Details Sheet for details of specific repairs R1 through R6.

Pier 2 cap repairs may require temporary shoring. See Special Provision for "Temporary Shoring and Cribbing".

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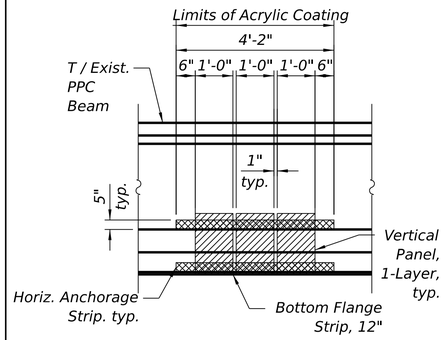
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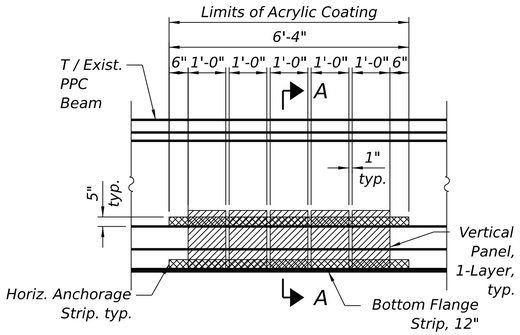
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 016-0707
SHEET S-14 OF S-34 SHEETS

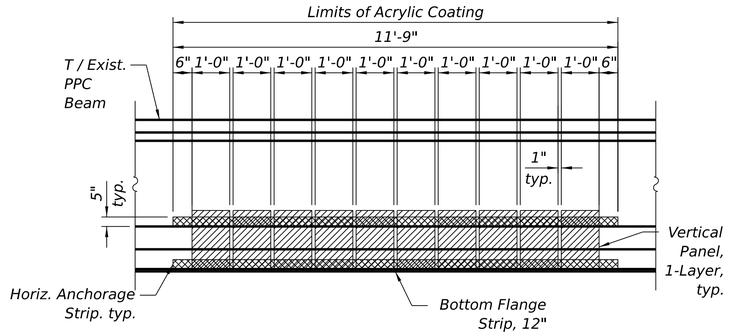
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	40
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



Repair Detail - R1

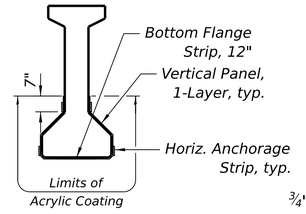


Repair Detail - R2

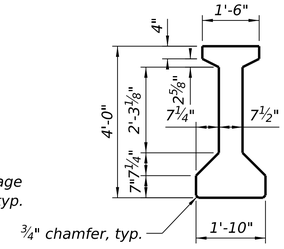


Repair Detail - R3

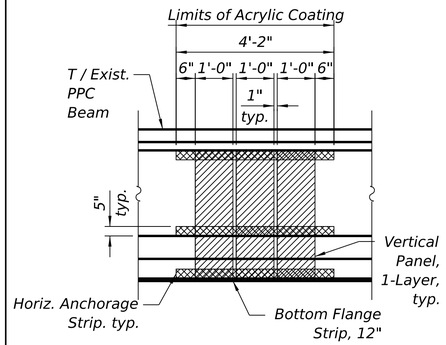
BEAM ELEVATION



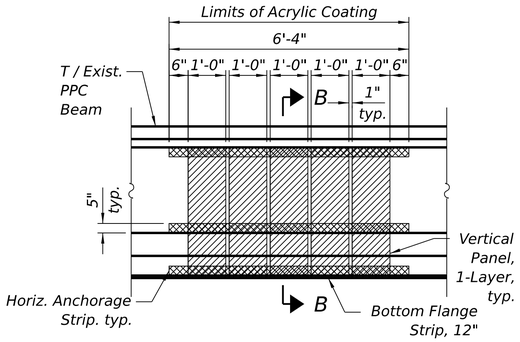
SECTION A-A



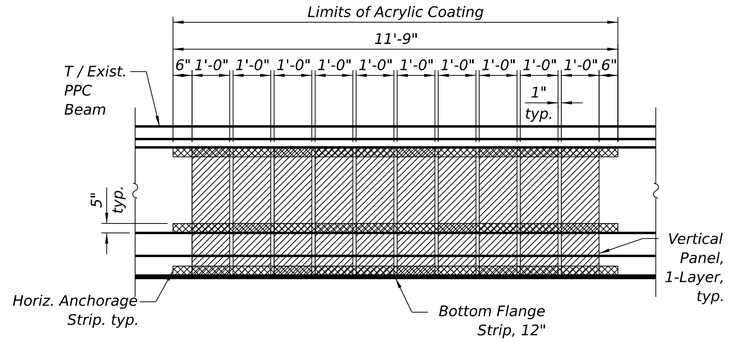
TYPICAL BEAM DIMENSIONS



Repair Detail - R4

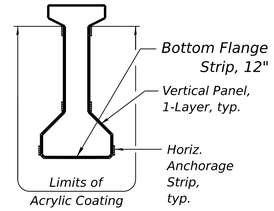


Repair Detail - R5



Repair Detail - R6

BEAM ELEVATION



SECTION B-B

LEGEND

Horizontal Anchorage Strip

Fiber Wrap Panel

Notes:
The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions for PPC I-Beam Repairs.
Acrylic Coating shall be placed over the fiber wrap repairs.
Two coats shall be applied.
See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs"
See Framing Plan Sheet for locations of specific repairs R1 through R6.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Fiber Wrap	Sq. Ft.	859
Acrylic Coating	Sq. Yd.	80
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	714

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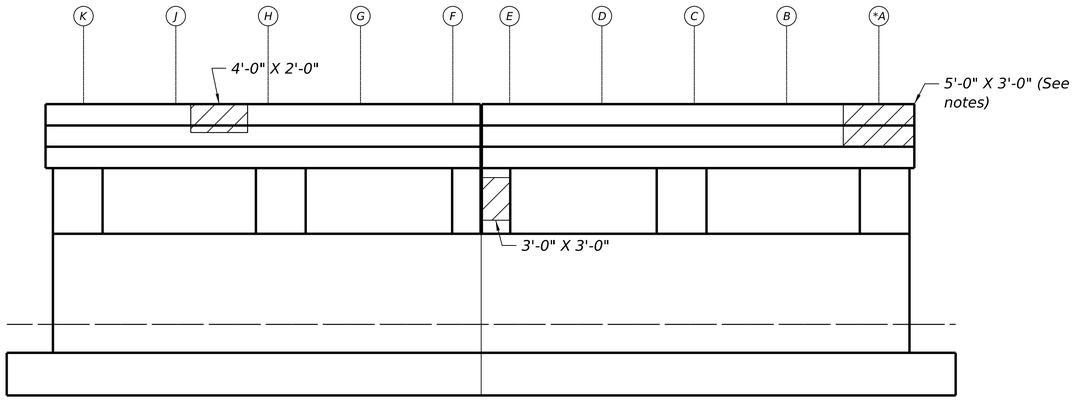
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

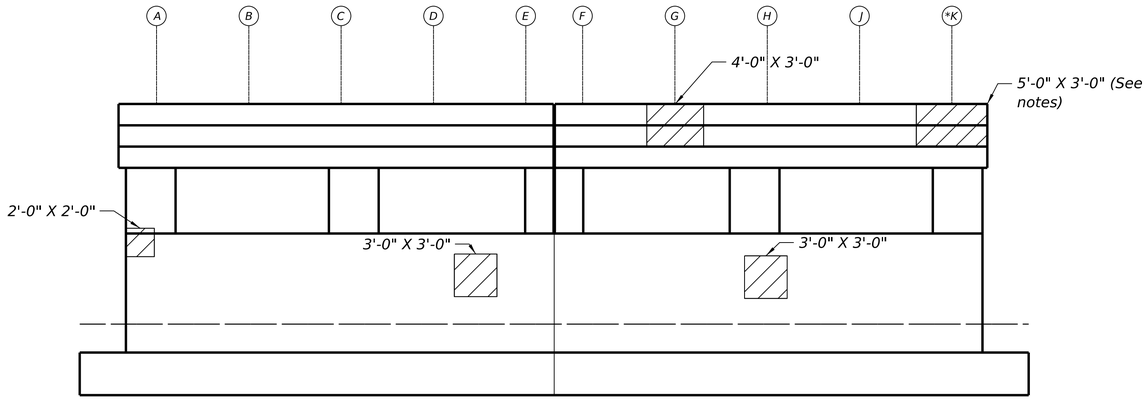
BEAM REPAIR DETAILS
STRUCTURE NO. 016-0707
SHEET S-15 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



PIER 2 ELEVATION
(South Face)

* Temporary Shoring & Cribbing



PIER 2 ELEVATION
(North Face)

BEAM REACTION TABLE

	Span 2	Span 3
R DL (K)	47.8	47.8
R LL (K)	35.4	35.4
R IMP (K)	8.9	8.9
R TOTAL (K)	92.1	92.1

Notes:
Repair areas shown are based on visual inspection. The actual size, location, and type of the repairs shall be determined by the Engineer.
Pier cap repairs may require temporary shoring. See Special Provision for "Temporary Shoring and Cribbing".

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

(A) *Beam Letter*

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	81
Temporary Shoring And Cribbing	Each	2

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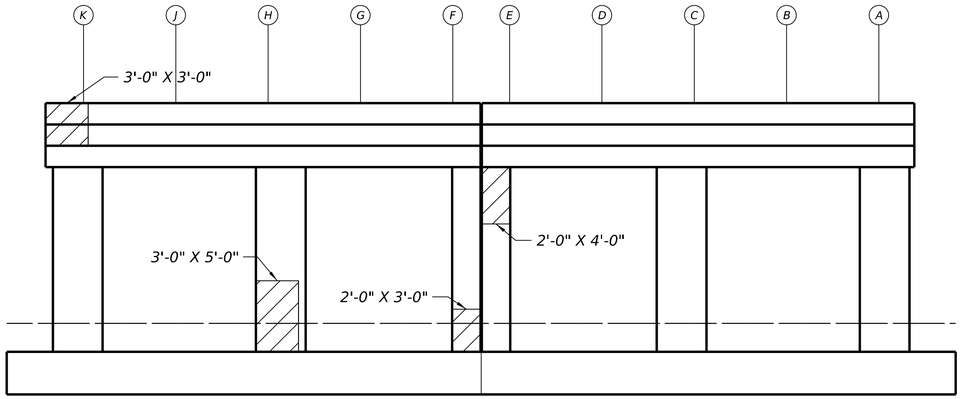
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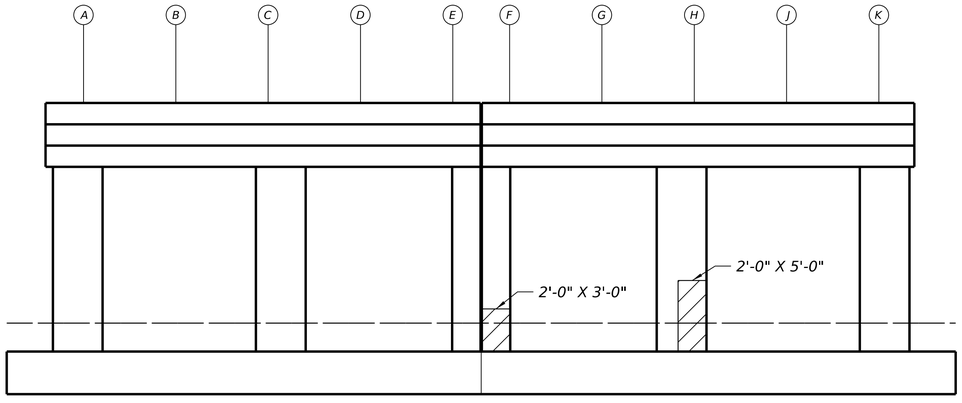
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 REPAIRS
STRUCTURE NO. 016-0707
SHEET S-16 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	42
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



PIER 3 ELEVATION
(South Face)



PIER 3 ELEVATION
(North Face)

Note:
Repair areas shown are based on visual inspection. The actual size, location, and type of the repairs shall be determined by the Engineer.

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

(A) *Beam Letter*

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	54

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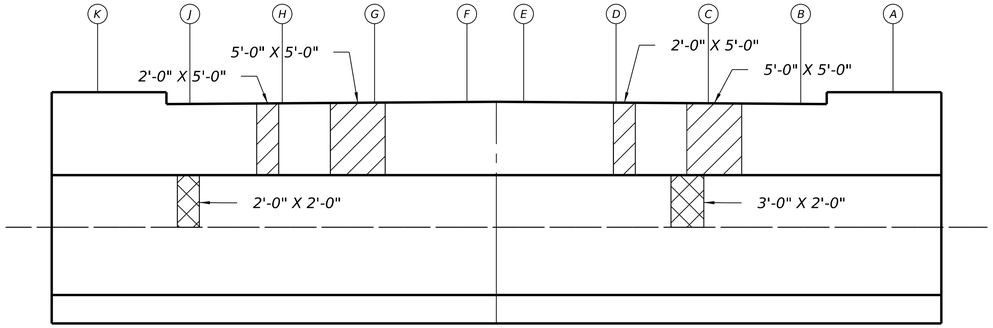
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	CHECKED - TCG	REVISED -	
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PLOT DATE =	CHECKED - TCG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

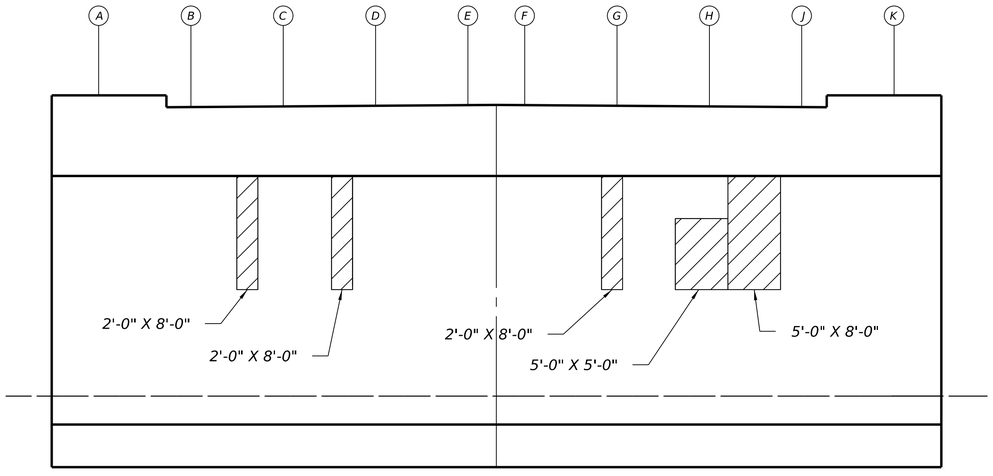
PIER 3 REPAIRS
STRUCTURE NO. 016-0707
SHEET S-17 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	43
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



SOUTH ABUTMENT

(Front Face)



NORTH ABUTMENT

(Front Face)

Note:
Repair areas shown are based on visual inspection. The actual size, location, and type of the repairs shall be determined by the Engineer.

LEGEND

Structural Repair of Concrete (Depth greater than 5")

Structural Repair of Concrete (Depth equal to or less than 5")

(A) *Beam Letter*

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.	10
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	183

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EPSTEIN

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PLOT DATE =	CHECKED - TCG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS
STRUCTURE NO. 016-0707
SHEET S-18 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	44
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90	1515 B	COOK	156	63
STA. 01+000.000	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S 1 of S 26

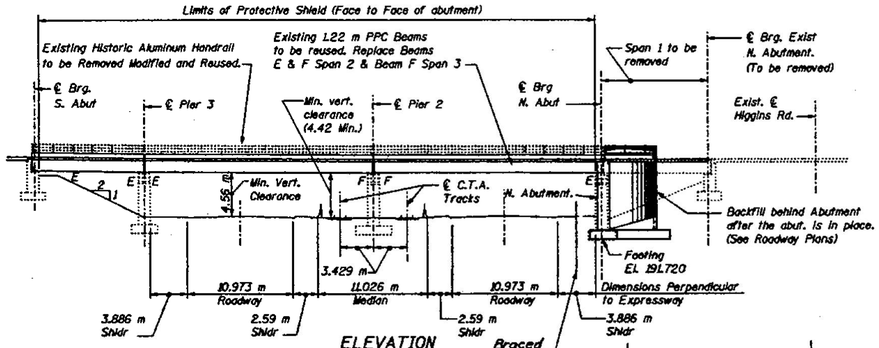
Bench Mark: Top of Chain Bolt of Fire Hydrant at South West corner of Higgins Road and Canfield Avenue. Sta. 2+235.00, 7.7 m Rt. El. 200.151

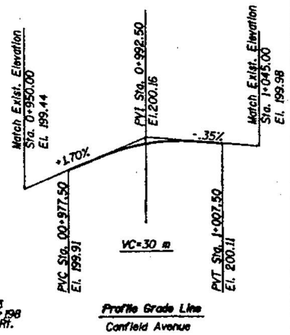
Bridge Description

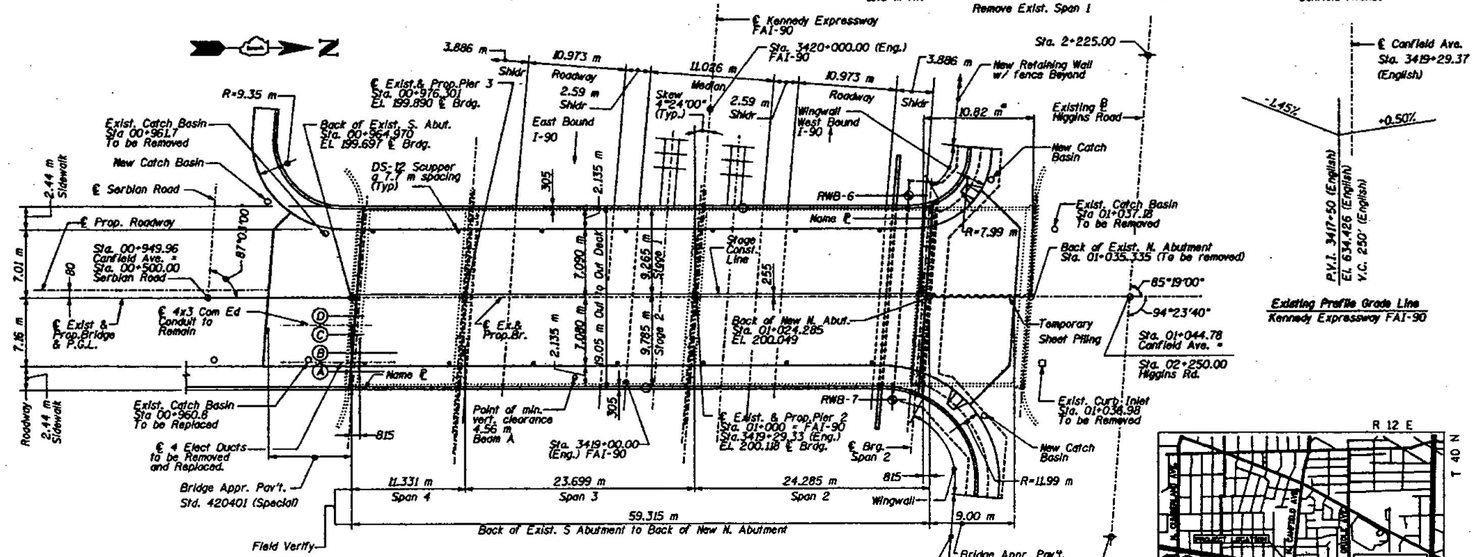
Structure 016-0707 was built in 1958 as the Canfield Avenue Grade Separation. The superstructure consists of four simple spans of precast, pretensioned concrete beams with a 178 mm thick concrete structural deck. The span lengths from north to south are 10.82 m, 23.70 m, 23.70 m and 10.52 m for a total length of 68.74 m. The substructure consists of reinforced concrete stub abutments with wingwalls and reinforced concrete piers founded on reinforced concrete spread footings. The deck out-to-out dimension is 18.6 m. There are aluminum railings on either side of the deck. The sidewalks are 2.59 m wide and directly adjacent to the 13.41 m wide roadway. The deck has a centerline longitudinal joint and expansion joints are located over Piers 1 & 3. The abutment bearings are fixed. Piers 1 & 3 provide expansion for all spans, and Pier 2 provides fixity for Spans 2 and 3. The minimum vertical clearance between Interstate Route 90 and the east fascia beam of Span 3 is 4.56 m between Lanes 1 and 2 on the eastbound side. Traffic will be maintained during Rehabilitation using staged construction

Salvage: Aluminum Handrail

All Dimensions in mm unless noted







STATION 01+000.000
REBUILT 2000 BY
STATE OF ILLINOIS
F.A.U. RTE. 2761 SEC 1515B
LOADING MS 18
STR. NO. 016-0707

NAME PLATE
Std. 515001

Note: Existing name plates are missing. New name plate is to be attached to the location of existing mounted name plate mounting plates. new nameplate size shall match existing mounting plates.

Seismic Data
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.040
Site Coefficient (S) = 1.0

Design Specification
1996 AASHTO, 16th Edition, with 1997 and 1998 Interims.

1995 Seismic Retrofitting Guidelines for Highway Bridges, FHWA/RD-94/052

Loading MS18
Allow 2.4 kN/m² for future wearing surface.

Design Stresses
New Construction

Field Units
f'c=24 MPa
fs=400 MPa (Reinf.)

Precast Prestressed Units
f'c = 42 MPa
f'ci = 35 MPa
f's = 1860 MPa (12.7 mm ϕ Low Lax Strands)
fsi = 1395 MPa (12.7mm ϕ Low Lax Strands)

Design Stresses
Existing Construction

Field Units
f'c=9.7 MPa
fs=138 MPa (Reinf.)

Precast Prestressed Units
f'c = 34.5 MPa
f'ci = 16.5 MPa
f's = 1710 MPa (11.1 mm ϕ Stress Relieved Strands)
fsi = 1207 MPa (11.1 mm ϕ Stress Relieved Strands)

Existing Soil Bearing Pressure
fp = 190 KPa

STATE OF ILLINOIS · DONALD RAY ERICSON · 81-4055 · CHICAGO, IL · REGISTERED STRUCTURAL ENGINEER

Ralph E. Anderson

EXPIRATION DATE: 11-30-2000
DATE: 11-17-1999

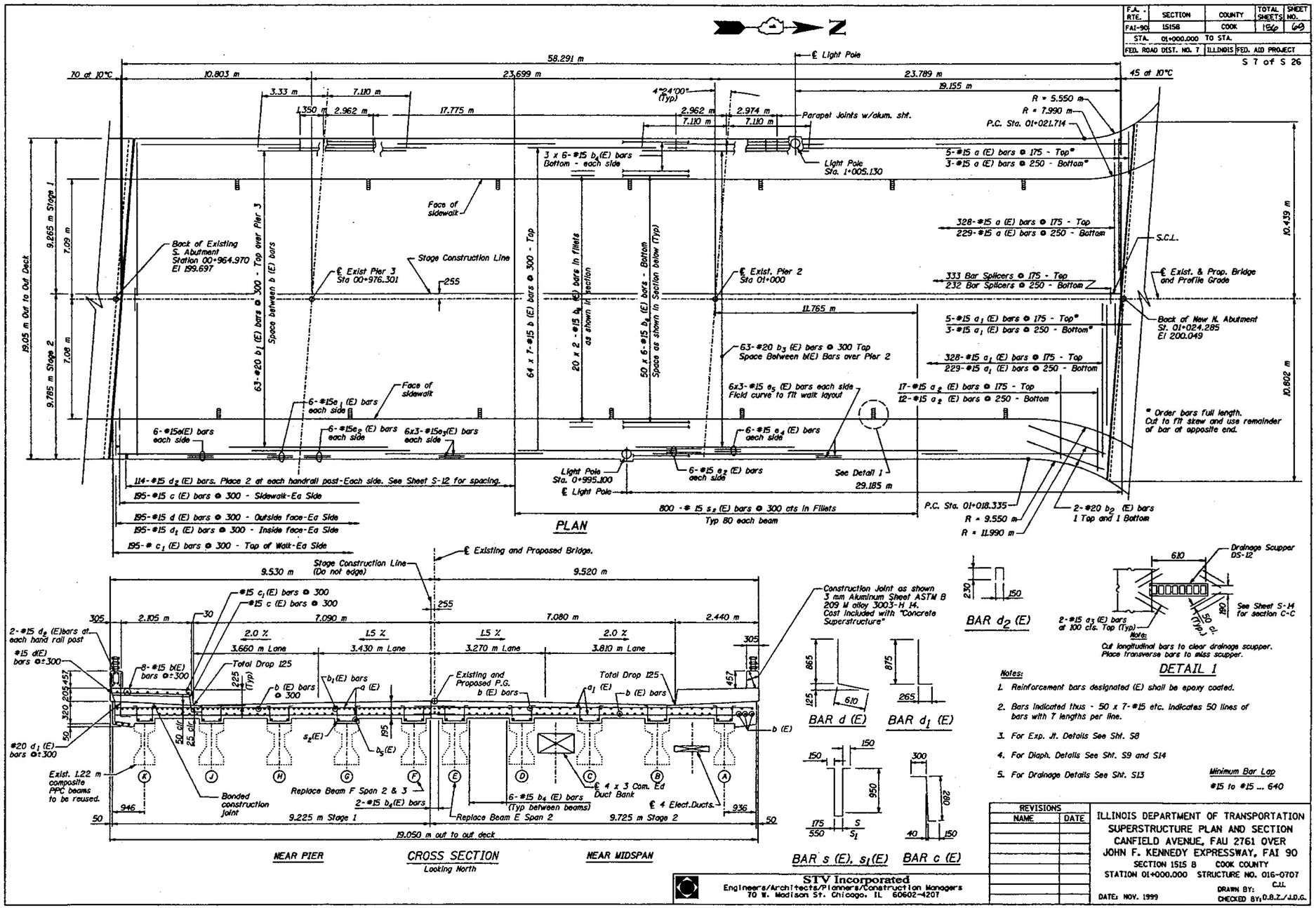
STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY M.A.K.
DATE NOV. 1999 CHECKED BY D.B.Z./J.D.C.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-90	1515B	COOK	150	69
STA.	01+000.000 TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S 7 of S 26



Notes:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars indicated thus - 50 x 7-#15 etc. indicates 50 lines of bars with 7 lengths per line.
3. For Exp. Jt. Details See Sht. S8
4. For Diaph. Details See Sht. S9 and S14
5. For Drainage Details See Sht. S13

Minimum Bar Lap
#15 to #15 ... 640

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE PLAN AND SECTION
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707

DRAWN BY: C.J.L.
CHECKED BY: D.B.Z./J.D.G.
DATE: NOV. 1999

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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EPSTEIN

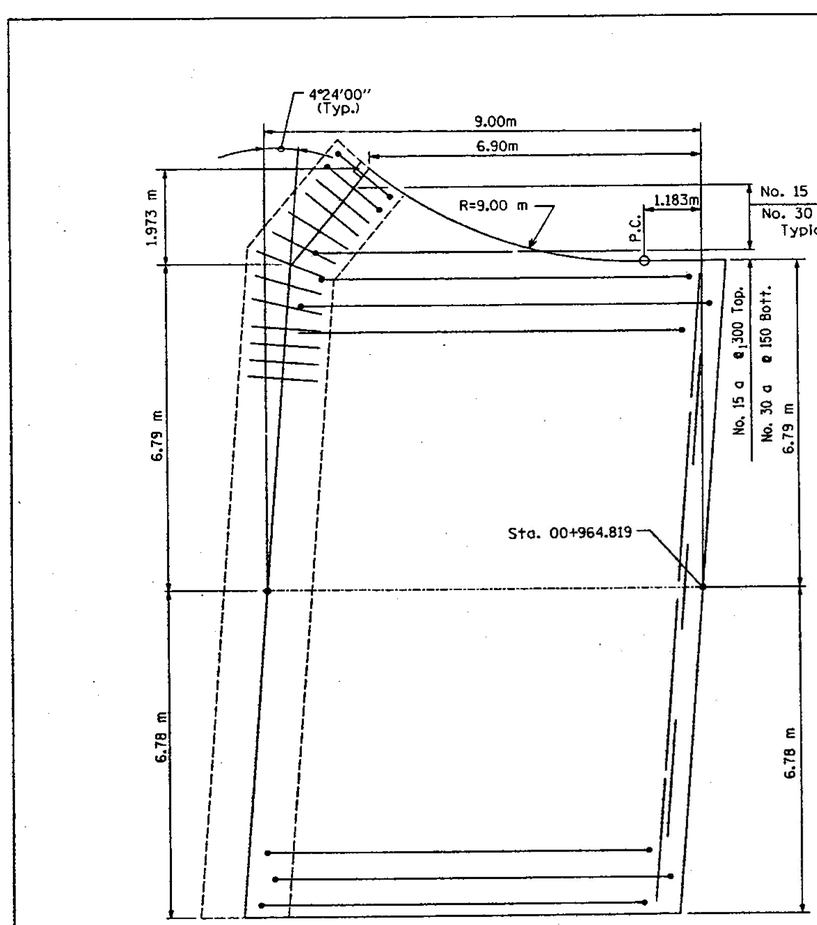
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

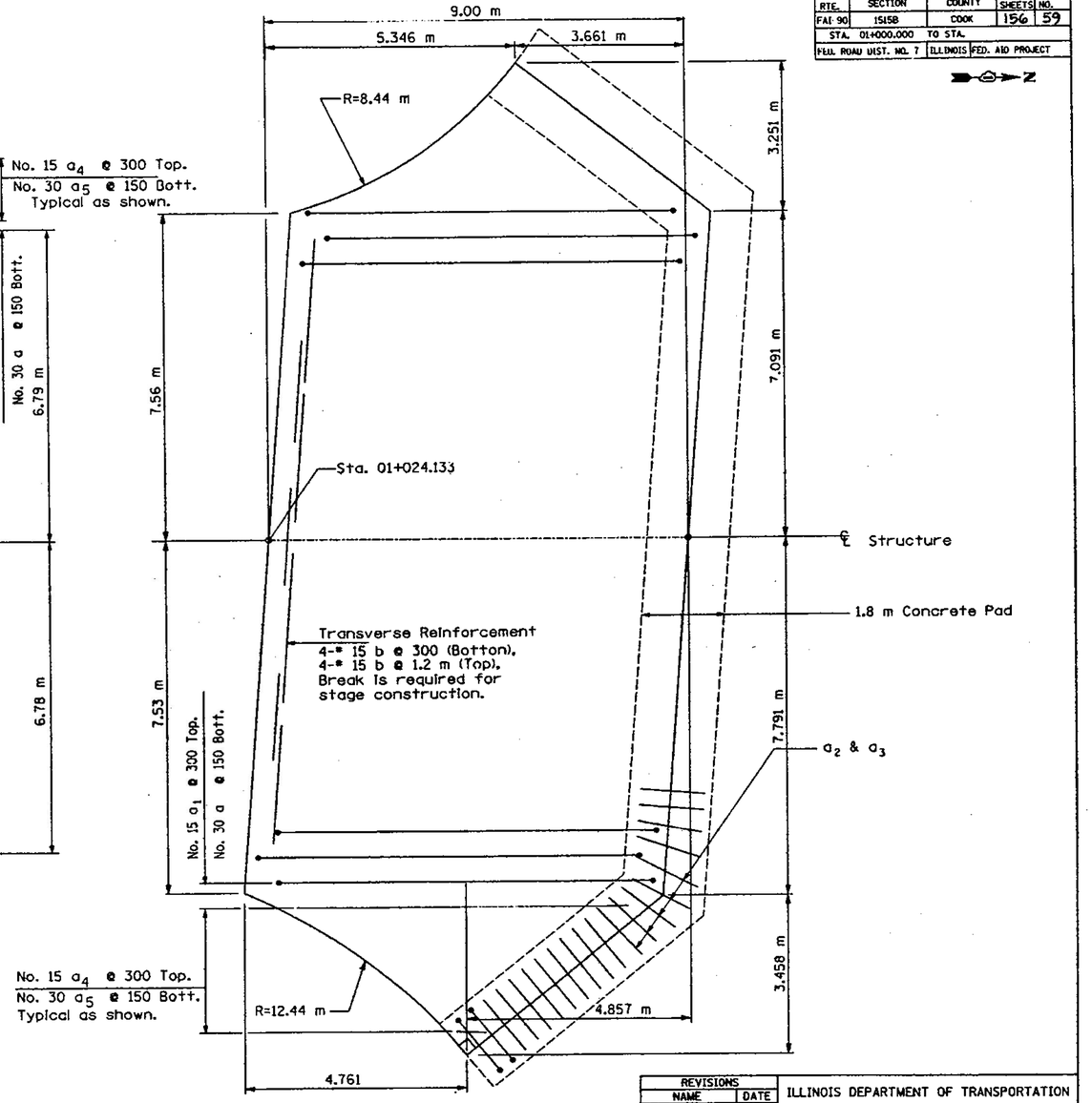
SELECT EXISTING PLANS-2
STRUCTURE NO. 016-0707
SHEET S-20 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	46
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90	1515B	COOK	156	59
STA. 01+000.000 TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



PLAN-SOUTH APPROACH SLAB



PLAN-NORTH APPROACH SLAB

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90

SCALE IN METERS
N.T.S.

DATE: OCT. 1999
DRAWN BY: CU
CHECKED BY: DBZ/JDG

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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EPSTEIN

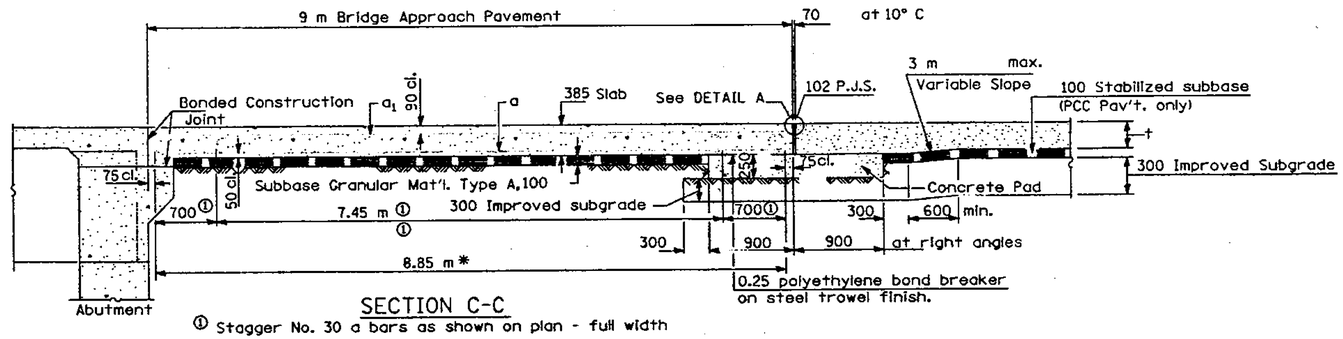
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PLOT DATE =		CHECKED -	TCG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-3
STRUCTURE NO. 016-0707
SHEET S-21 OF S-34 SHEETS

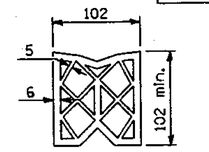
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	47
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 01+000.000 TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

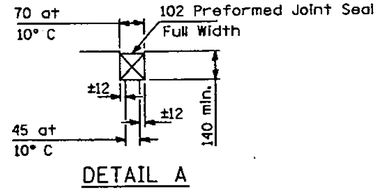


SECTION C-C

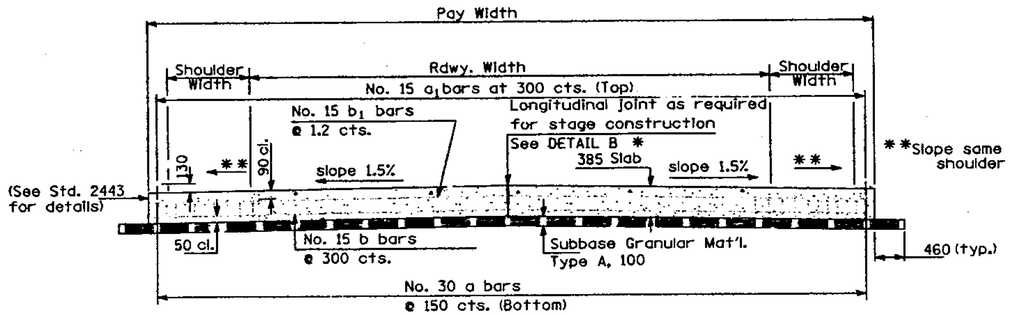
① Stagger No. 30 a bars as shown on plan - full width



PREFORMED JOINT SEAL



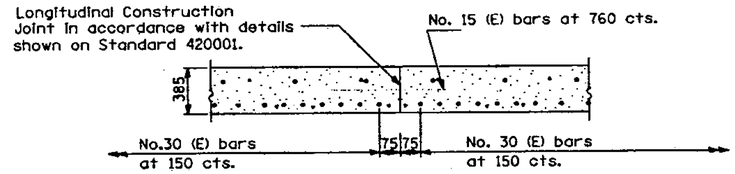
DETAIL A



**Slope same as adjacent shoulder slope.

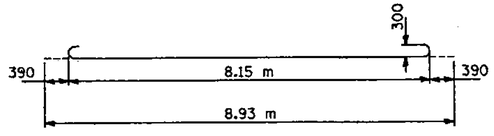
SECTION D-D

(See Plan for Dimensions not shown)
All reinforcement bars shall be epoxy coated.

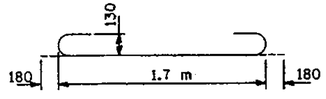


LONGITUDINAL CONSTRUCTION JOINT

As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



No. 30 a BARS



BAR a_2

All dimensions are in millimeters

DESIGN STRESSES

fy = 400 MPa
f'c = 24 MPa
n = 8.5

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT DETAILS

SCALE IN METERS N.T.S.

DATE: OCT. 1999
DRAWN BY: C.U.
CHECKED BY: D.B.Z./J.D.C.

MODEL: Default
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EPSTEIN

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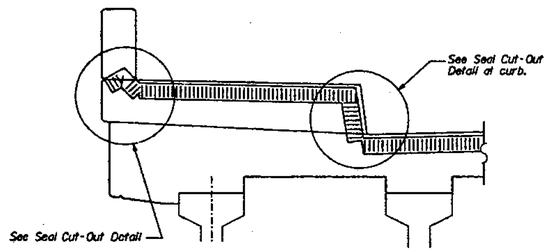
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-4
STRUCTURE NO. 016-0707
SHEET S-22 OF S-34 SHEETS

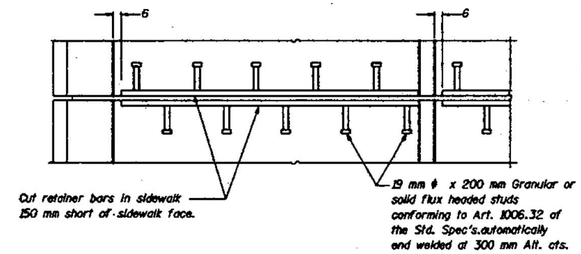
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	48
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

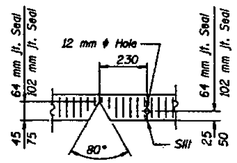
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1515 B	COOK	156	70
STA.	01+000.000 TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S 8 of S 26



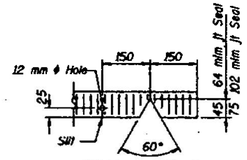
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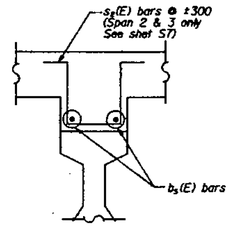


SEAL CUT-OUT AT CURB

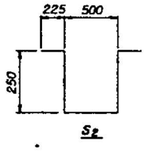
Section C-C



SEAL CUT-OUT



FILLET DETAIL

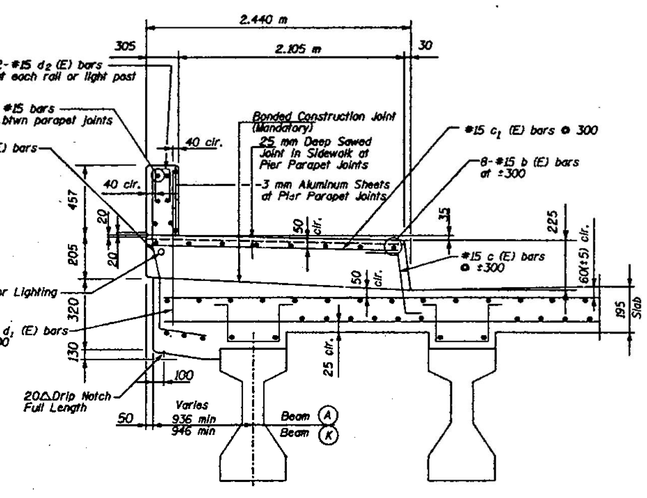


S_2

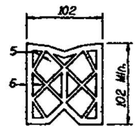
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	565	#15	9.08	
a_1(E)	565	#15	9.68	
a_2(E)	29	#15	4.00	
b (E)	448	#15	8.95	
b_1(E)	63	#20	10.44	
b_2(E)	4	#20	5.00	
b_3(E)	63	#20	14.22	
b_4(E)	336	#15	10.34	
b_5(E)	40	#15	12.49	
c(E)	390	#15	.73	
c_1(E)	390	#15	2.34	
d(E)	390	#15	1.48	
d_1(E)	390	#15	1.14	
d_2(E)	228	#15	.61	
d_3(E)	6	#20	1.34	
d_4(E)	8	#20	2.60	
e(E)	12	#15	9.38	
e_1(E)	12	#15	1.28	
e_2(E)	24	#15	2.89	
e_3(E)	36	#15	6.33	
e_4(E)	12	#15	2.90	
e_5(E)	36	#15	7.34	
m (E)	96	#15	1.60	
m_1 (E)	32	#15	.90	
m_2 (E)	64	#15	1.19	
m_3 (E)	8	#15	.43	
s (E)	60	#15	2.37	
s_1 (E)	100	#15	2.75	
s_2(E)	800	#15	1.45	
Item			Unit	Total
Reinfo. Bars (Epoxy Coated)			kg	53991
Concrete Superstructure			m^3	391
Furnish and Erect Structural Steel			Kg	2120

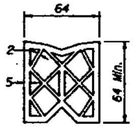
NOTE:
For deck plan and section see sht S7.
For sidewalk and diaphragm details see sht S9.



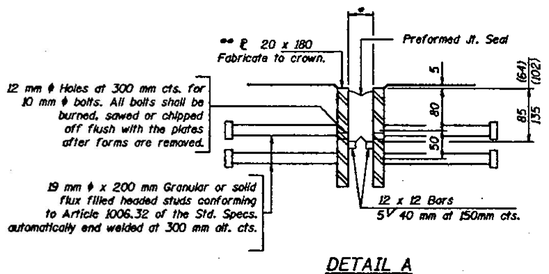
TYPICAL SIDEWALK SECTION



PREFORMED JOINT SEAL (102 mm)



PREFORMED JOINT SEAL (64 mm)



DETAIL A

NOTE:
After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for structural steel. No field painting required

* 45 mm at 10°C. (64 mm)
70 mm at 10°C. (102 mm)
** Furnish in segments of 6 m maximum length. Maximum space between installed segments shall be 5 mm. Seal space with Silicone Sealant suitable for Structural Steel.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY CJL
DATE NOV. 1999 CHECKED BY DBZ/JDG

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EPSTEIN

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	CHECKED - TCG	REVISED -
PLOT SCALE =	DRAWN - KC	REVISED -
PLOT DATE =	CHECKED - TCG	REVISED -

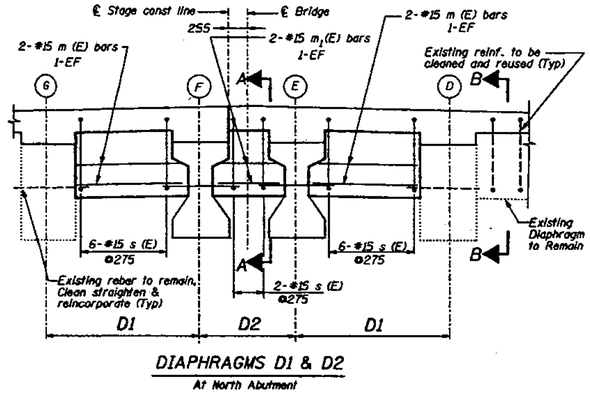
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-5
STRUCTURE NO. 016-0707
SHEET S-23 OF S-34 SHEETS

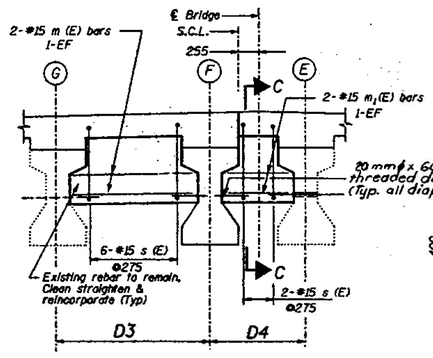
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	49
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1515 B	COOK	154	71
STA.	01+000.000 TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

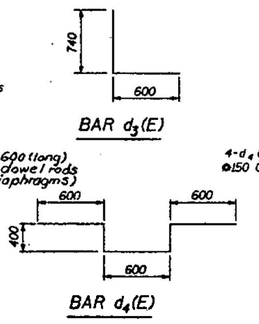
S 9 of S 26

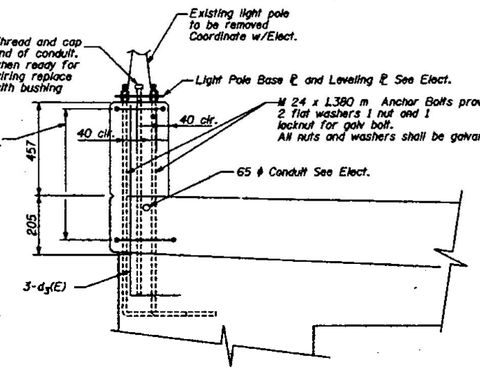


DIAPHRAGMS D1 & D2
At North Abutment

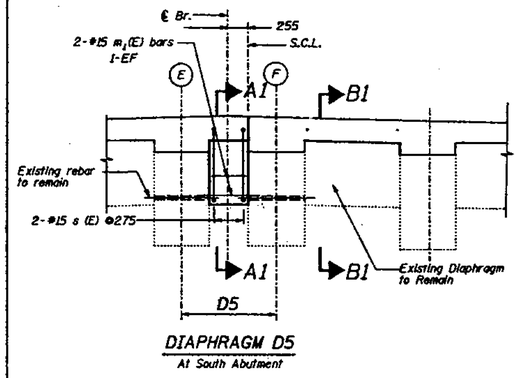


DIAPHRAGMS D3 & D4

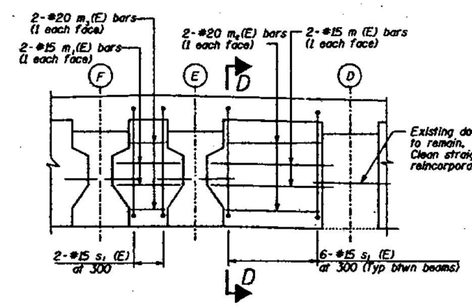




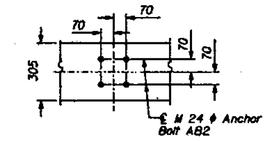
SECTION E-E



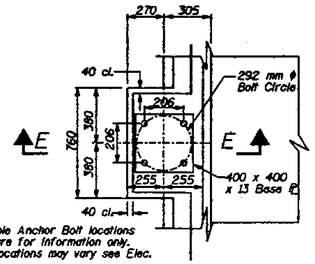
DIAPHRAGM D5
At South Abutment



DIAPHRAGMS AT PIER 2 & 3

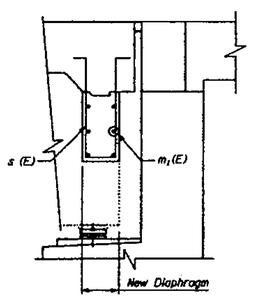


PLAN AT HANDRAIL POST



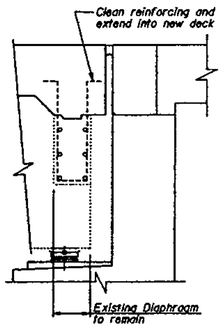
NOTE:
Light Pole Anchor Bolt locations shown are for information only. Actual locations may vary see Elec.

PLAN LIGHT POLE SUPPORT



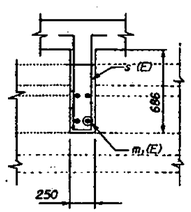
SECTION A-A

SECTION A1-A1 SIMILAR

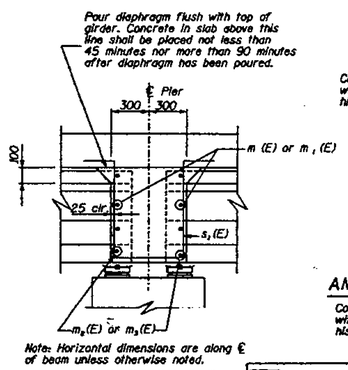


SECTION B-B

SECTION B1-B1 SIMILAR

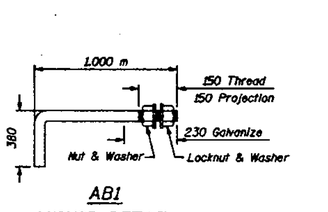


SECTION C-C BARS



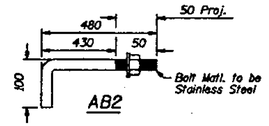
Note: Horizontal dimensions are along ℄ of beam unless otherwise noted.

SECTION D-D



AB1
ANCHOR DETAIL

Cost of furnishing and installing anchor bolts included with cost to remove, refurbish and reinstall historic Handrail.



AB2
ANCHOR DETAIL AT HANDRAIL POST

Cost of furnishing and installing anchor bolts included with cost to remove, refurbish and reinstall historic Handrail.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago. IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY CJJ.
DATE NOV. 1999 CHECKED BY OBZ/JDG

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EPSTEIN

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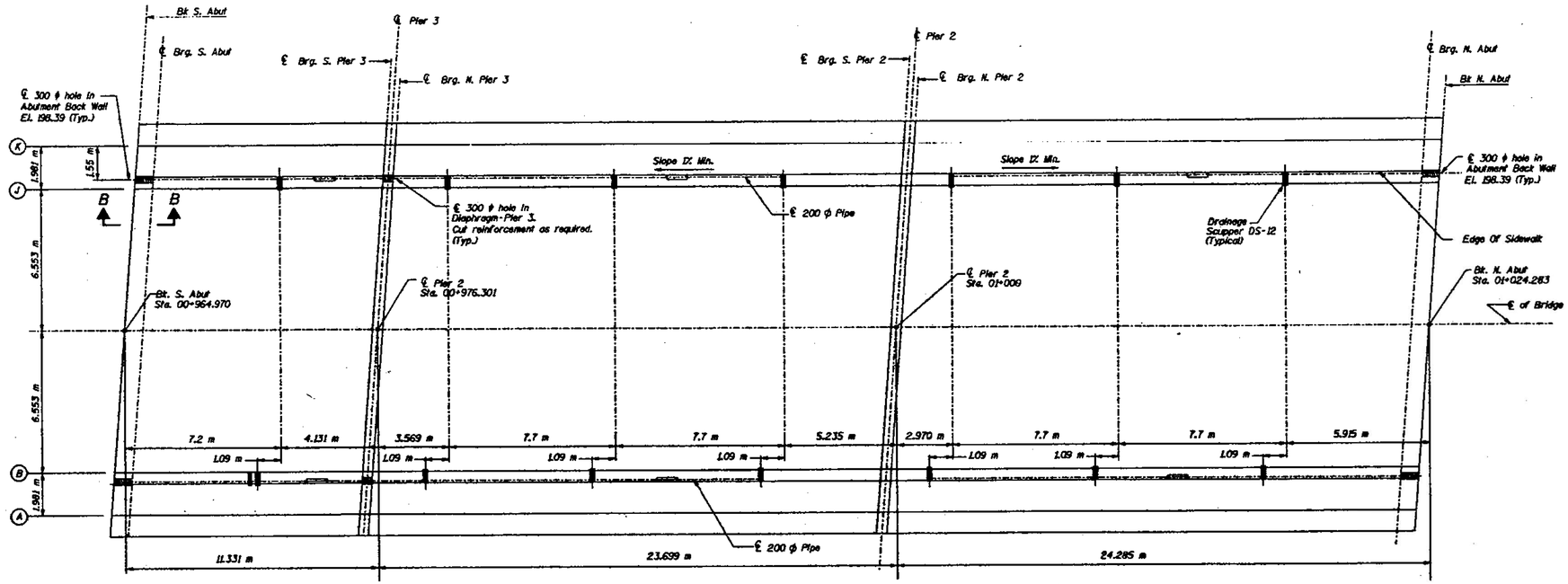
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-6
STRUCTURE NO. 016-0707
SHEET S-24 OF S-34 SHEETS

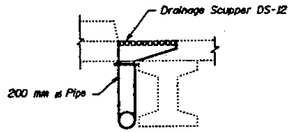
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA190	1515B	COOK	156	75
STA. 01+000.000	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

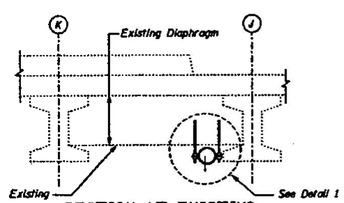
S 13 of S 26



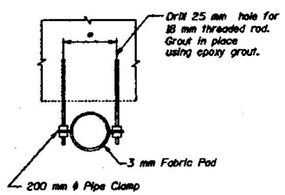
DRAINAGE PLAN



DRAINAGE SCUPPER DETAIL



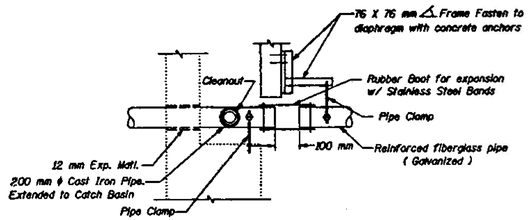
SECTION AT EXISTING DIAPHRAGM



DETAIL 1

The clamping device and headed rod shall be galvanized in accordance with AASHTO M-232.

*Dimension as required by Pipe Clamp.



SECTION B-B

NOTES :

1. Place a cleanout in horizontal pipe at every scupper.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DRAINAGE PLAN AND DETAILS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.U.
DATE NOV. 1999 CHECKED BY O.B.Z./J.D.C.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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PLOT DATE =	CHECKED - TCG	REVISED -	

EPSTEIN

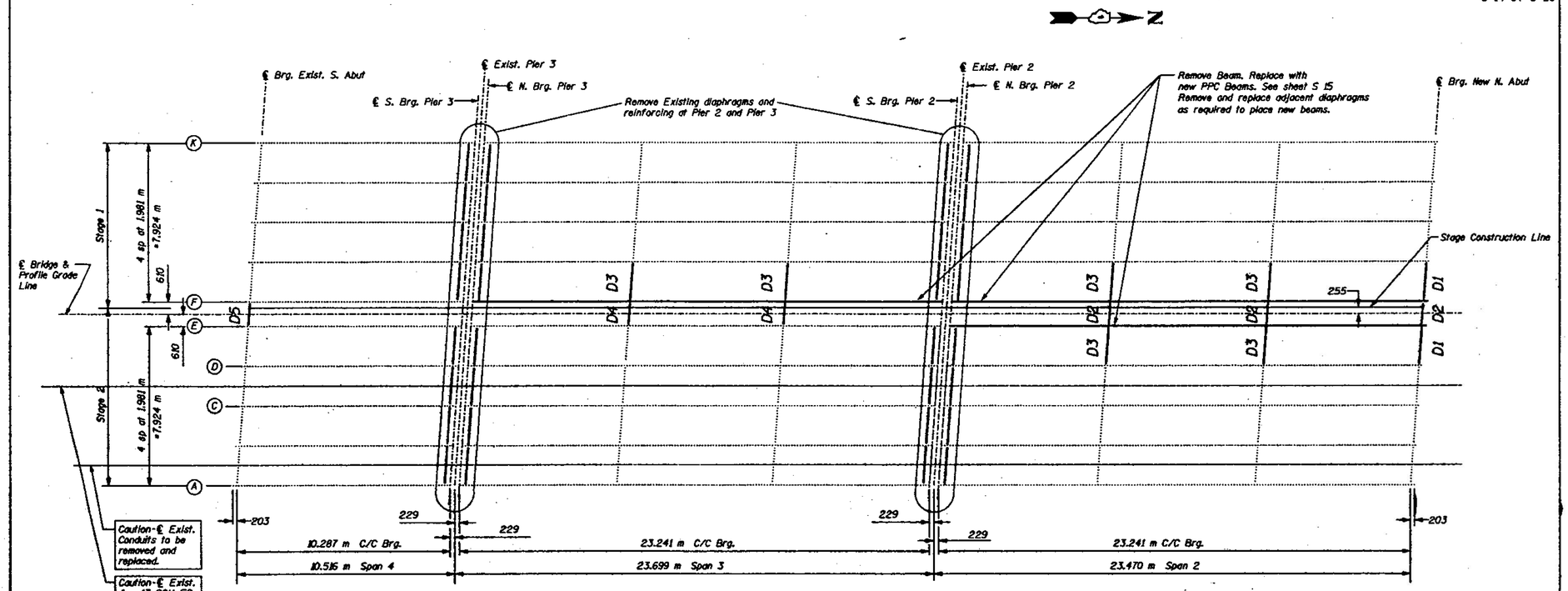
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-7
STRUCTURE NO. 016-0707
SHEET S-25 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	51
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA190	1515 B	COOK	196	76
STA. 01+000.000	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S 14 of S 26



FRAMING PLAN

Note: Diaphragm removal is included with Removal of Existing Concrete Deck.

Note: For reinforcement, see sheet S-8
For Diaphragm Details see sheet S-9

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FRAMING PLAN
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.J.L.
DATE NOV. 1999 CHECKED BY D.B.Z./J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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PLOT DATE =	CHECKED - TCG	REVISED -	

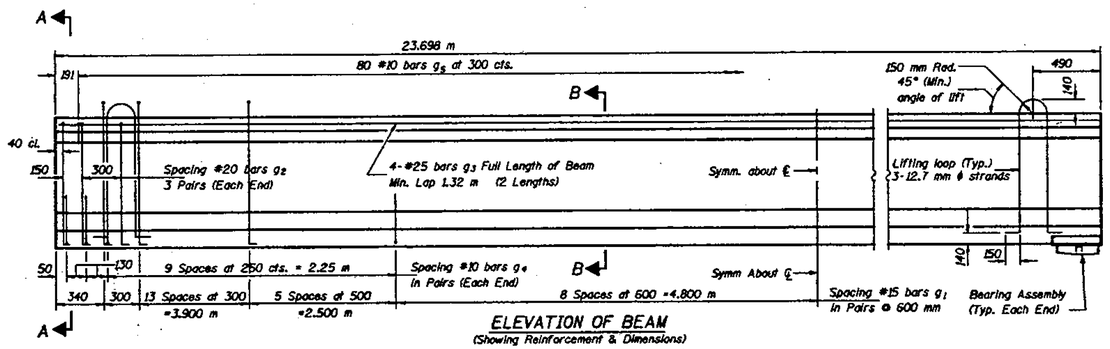
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-8
STRUCTURE NO. 016-0707
SHEET S-26 OF S-34 SHEETS

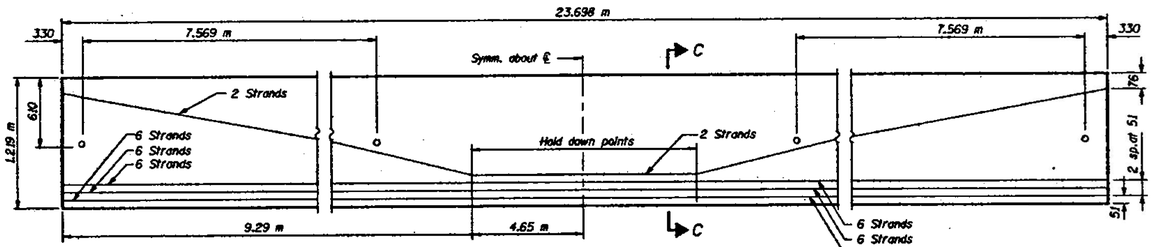
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		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 01+000.000 TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

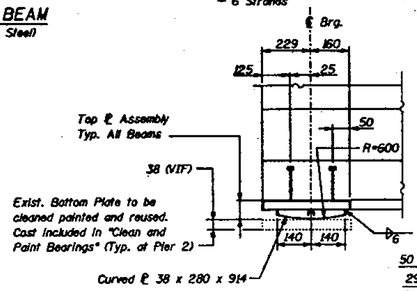
S 15 of S 26

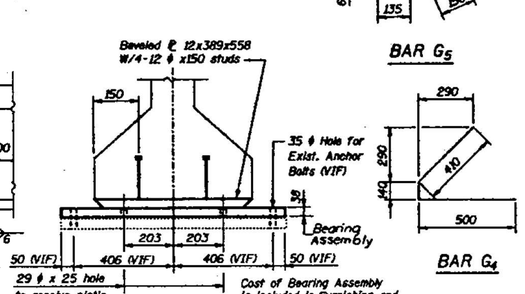


ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)



ELEVATION OF BEAM
(Showing Prestressing Steel)



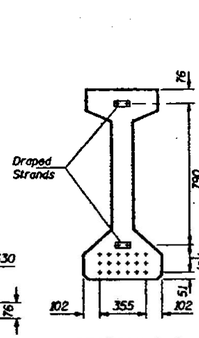


ELEVATION-BEARING DETAIL

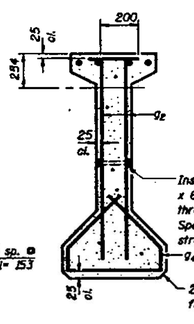
Cost of Bearing Assembly is included in Furnishing and Erecting Structural Steel.

TOP OF BEAM ELEVATIONS

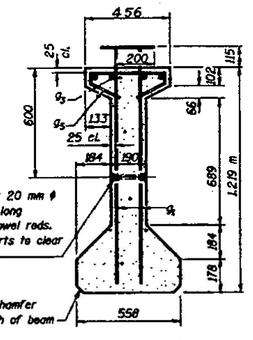
Beam	Span	Elev N Abut	Elev Pier 2	Elev Pier 3
E	2	199.692	199.723	——
F	2	199.692	199.723	——
F	3	——	199.723	199.598



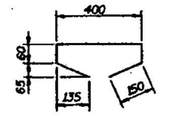
SECTION C-C



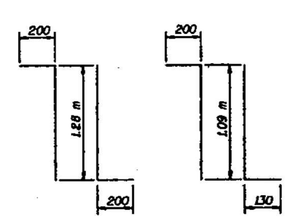
SECTION A-A



SECTION B-B



BAR G_5



BAR G_1 BAR G_2

BAR G_4

* BAR LIST

Bar	No.	Size	Length (m)	Shape
g_1	70	#16	1.68	7L
g_2	12	#20	1.42	7L
g_3	8	#25	7.31	——
g_4	48	#10	1.05	C
g_5	80	#10	0.82	□

* For one beam only.

BEAM MOMENT TABLE (NEW)

		0.5 Span #2 (E,F)	0.5 Span #3 (F)
Strand Pattern			
I	(10^6 mm⁴)	539186	539186
I'	(10^6 mm⁴)	165168	165168
S_b	(10^3 mm⁻³)	111990	111990
S_c	(10^3 mm⁻³)	180634	180634
S_t	(10^3 mm⁻³)	87754	87754
S_f	(10^3 mm⁻³)	456897	456897
@	(kN/m)	17.70	17.70
M @	(kN-m)	1196	1196
s @	(kN/m)	6.96	6.96
Ms @	(kN-m)	288	288
M L	(kN-m)	645	645
M (Imp)	(kN-m)	229	229

BEAM MOMENT TABLE (EXISTING)

		0.5 Span #2 (B,C,D, G,H,J)	0.5 Span #3 (B,C,D,E,G,H,J)	0.5 Span #4 (B,C,D,E,F,G,H,J)
Strand Pattern				
I	(10^6 mm⁴)	131496	131496	83150
I'	(10^6 mm⁴)	244462	244462	187978
S_b	(10^3 mm⁻³)	255,584	255,584	142764
S_c	(10^3 mm⁻³)	295950	295950	217669
S_t	(10^3 mm⁻³)	206673	206673	130572
S_f	(10^3 mm⁻³)	621331	621331	528630
@	(kN/m)	23.86	23.86	20.94
M @	(kN-m)	1611	1611	293.51
s @	(kN/m)	6.96	6.96	6.96
Ms @	(kN-m)	287	287	25.76
M L	(kN-m)	876	876	313.19
M (Imp)	(kN-m)	230	230	119

BEAM REACTION TABLE (NEW BEAMS)

	Span #2 (E,F)			Span #3 (F)		
	S. Abut	Pier 3		Pier 2		N. Abut
	Span 4	Span 4	Span 4	Span 4	Span 4	Span 4
R @ (kN)	17	132	132	191	191	63
R L (kN)	226	329	329	315	315	272
Imp (kN)	57	82	82	79	79	68
R Total (kN)	300	543	543	585	585	403

BEAM REACTION TABLE (EXISTING BEAMS)

	Span #4 (B,C,D,E,F,G,H,J)		Span #3 (B,C,D,E,G,H,J)		Span #2 (B,C,D, G,H,J)	
	S. Abut	Pier 3		Pier 2		N. Abut
	Span 4	Span 4	Span 4	Span 4	Span 4	Span 4
R @ (kN)	19	129	129	192	192	63
R L (kN)	223	319	319	315	315	272
Imp (kN)	56	80	80	79	79	68
R Total (kN)	298	528	528	586	586	403

NOTES

All inserts and threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per meter of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1219 mm."

Inserts for 20 mm threaded dowel rods are to be two strut, coil type for interior I-Beams and single coil.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand (f_{su}=1860 MPa).

The nominal diameter shall be 12.7 mm and the nominal cross-sectional area shall be 98.71 mm².

Non-prestressing steel shall conform to AASHTO designation M-31M, M-42M or M-53M Grade 400.

Lifting loops shall be 3 -12.7 mm ϕ strands (F_s =1860 MPa), as shown.

Required release strength, f_{ci}, shall be 35 MPa.

Reinforcement bars designated (E) shall be epoxy coated.

All dimensions are in millimeters (mm) except as noted.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1219 mm	m	71

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
1219 mm P.P.C. I BEAM DETAILS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.U.
DATE NOV. 1999 CHECKED BY D.B.Z./C.G.

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EPSTEIN

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	CHECKED - TCG	REVISED -
PLOT SCALE =	DRAWN - KC	REVISED -
PLOT DATE =	CHECKED - TCG	REVISED -

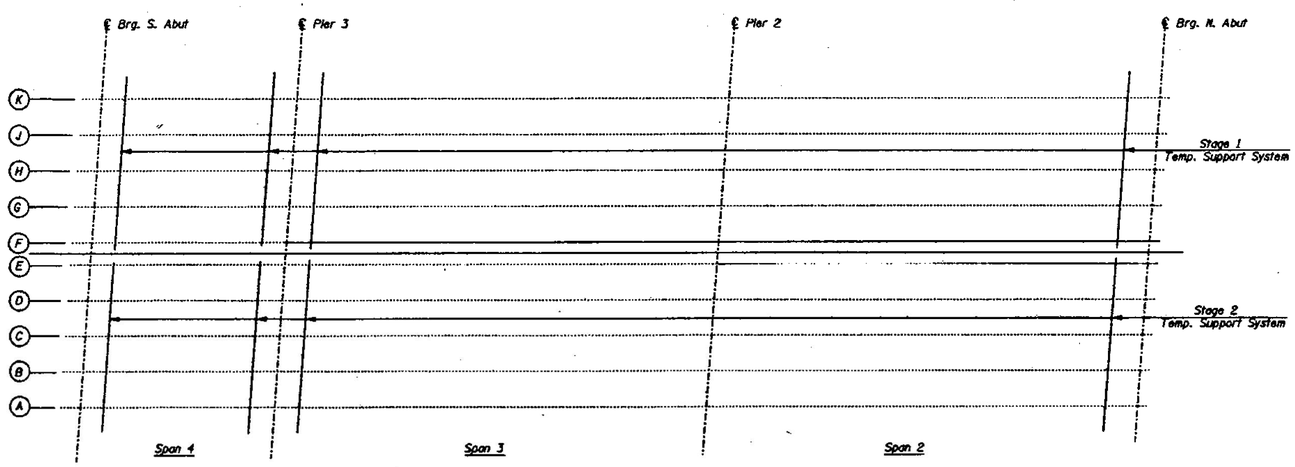
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-9
STRUCTURE NO. 016-0707
SHEET S-27 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	53
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1515 B	COOK	156	78
STA.	01+000.000	TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S 16 of S 26

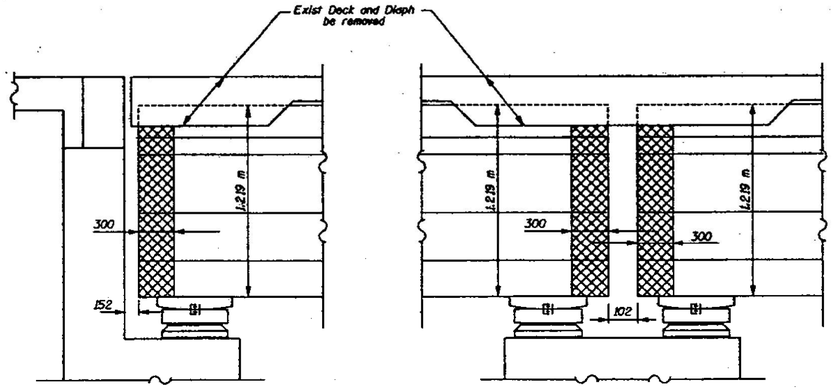


SHORING LOCATION PLAN

Note: Shoring is for bearing replacement and end of beam repair.

SHORING LOADS

BEAM	SPAN 2		SPAN 3		SPAN 4	
	N. Abut	Pier 2	Pier 2	Pier 3	Pier 3	S. Abut
A	142kN	142kN	142kN	142kN	64kN	64kN
B	176kN	176kN	176kN	176kN	64kN	64kN
C	176kN	176kN	176kN	176kN	64kN	64kN
D	176kN	176kN	176kN	176kN	64kN	64kN
E	——	——	176kN	176kN	64kN	64kN
F	——	——	——	——	64kN	64kN
G	176kN	176kN	176kN	176kN	64kN	64kN
H	176kN	176kN	176kN	176kN	64kN	64kN
J	176kN	176kN	176kN	176kN	64kN	64kN
K	142kN	142kN	142kN	142kN	64kN	64kN



BEAM END AT SOUTH ABUTMENT

BEAM ENDS AT PIER 3 SHOWN

(Pier 1 & 2 Similar)

BEAM END REPAIRS

Typical Area of Beam Repair.
Final Area to be determined in field.
As approved by the Engineer.

MINIMUM JACK CAPACITY

BEAM	SPAN 2		SPAN 3		SPAN 4	
	N. Abut	Pier 2	Pier 2	Pier 3	Pier 3	S. Abut
A	213kN	213kN	213kN	213kN	96kN	96kN
B	264kN	264kN	264kN	264kN	96kN	96kN
C	264kN	264kN	264kN	264kN	96kN	96kN
D	264kN	264kN	264kN	264kN	96kN	96kN
E	——	——	264kN	264kN	96kN	96kN
F	——	——	——	——	96kN	96kN
G	264kN	264kN	264kN	264kN	96kN	96kN
H	264kN	264kN	264kN	264kN	96kN	96kN
J	264kN	264kN	264kN	264kN	96kN	96kN
K	213kN	213kN	213kN	213kN	96kN	96kN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymer Modified Portland Cement Mortar	m^2	119
Jack and Remove Existing Bearings	Ea	37

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
P.P.C. BEAM REPAIR
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.U.
DATE NOV. 1999 CHECKED BY D.B.Z./J.D.G.

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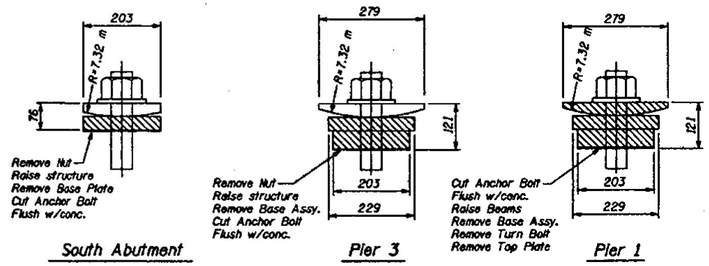
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-10
STRUCTURE NO. 016-0707
SHEET S-28 OF S-34 SHEETS

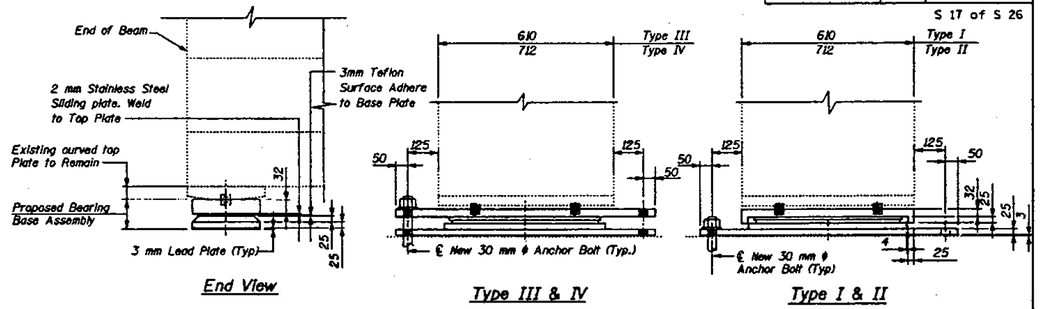
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	54
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1515 B	COOK	156	79
STA. 01+000.000	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

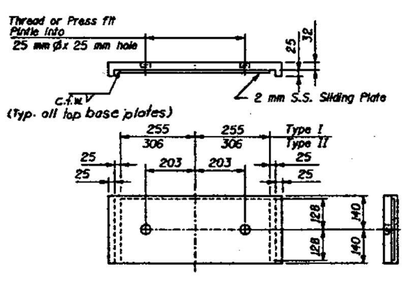
S 17 of S 26



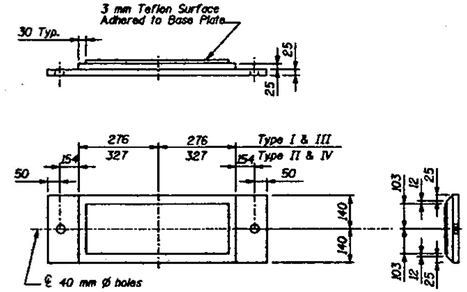
BEARING DEMOLITION DETAILS



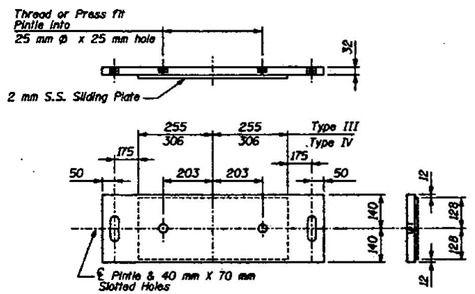
BEARING REPLACEMENT DETAILS
Pier 3 & South Abutment



TOP BASE ASSEMBLY PLATE
Type I & Type II



BOTTOM BASE ASSEMBLY PLATE
Type I, II, III, IV



TOP BASE ASSEMBLY PLATE
Type III & Type IV

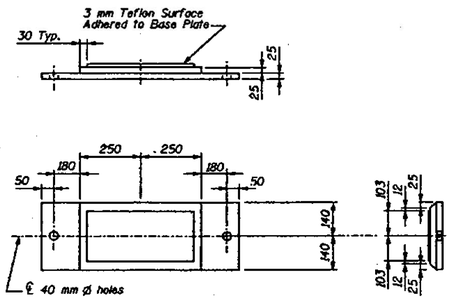
* Existing Bottom Plates to remain. Full use with new beams. Clean and paint for reuse.

BEARING TYPE LOCATION

Beam	South Abutment	Pier 3 Span 4	Pier 3 Span 3	Pier 2 Span 3	Pier 2 Span 2
A	III	III	III	N.A.	N.A.
B	I	I	II	N.A.	N.A.
C	I	I	II	N.A.	N.A.
D	I	I	II	N.A.	N.A.
E	III	III	IV	N.A.	N.A.
F	III	III	V	N.A.	*
G	I	I	II	*	*
H	I	I	II	N.A.	N.A.
J	I	I	II	N.A.	N.A.
K	III	III	III	N.A.	N.A.

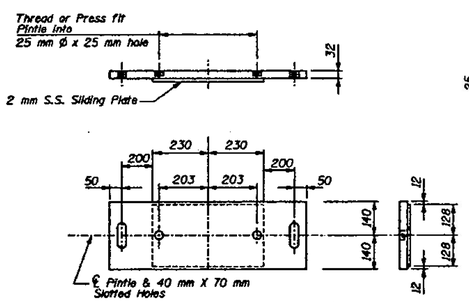
BEARING REMOVAL NOTES:

1. The contractor shall submit for approval by the engineer plans for jacking & cribbing prior to commencing any work at the bearings.
2. Prior to ordering material. The engineer shall verify shim plate thickness required at each bearing.
3. Jacking and removing existing bearing shall be done after the deck removal is completed and before the new deck is poured.
4. Jacking shall be limited to a maximum of 5 mm lift to remove the existing bearing assembly, utilizing a jack or series of jacks. See sheet 16 for shoring loads and minimum Jack capacities
5. Remove the existing anchor bolts flush with the concrete surface, grind smooth, and seal with epoxy. The sliding plates and bottom plates shall be removed leaving the existing top plate intact. The bottom flange area of the beam and existing top plate shall be cleaned and painted as specified for structural steel.
6. The new bearings, pintles, fill plates, and shim plate shall be in place and the beams shall be lowered before the new concrete deck is poured.
7. Beams at the North Abutment shall be lifted simultaneously to a maximum of 22mm, AS NECESSARY TO INSTALL BEARINGS.

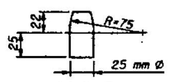


BOTTOM BASE ASSEMBLY PLATE
Type V

Note: The 3mm TFE sheet shall be bonded directly to the base plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the federal specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 3 mm TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



TOP BASE ASSEMBLY PLATE
Type V



PINTLE

(No. Req'd = 60)

Note :

Cost of S.S. Sliding Plate and Teflon Surface to be included in unit price for "Furnishing and Erecting Structural Steel"

Hatched areas indicates limits of removal.

See Sheet 19 for Anchor Bolt Installation.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Kg	6020

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BEARING REPLACEMENT
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.U.
DATE NOV. 1999 CHECKED BY D.B.Z./J.D.G.

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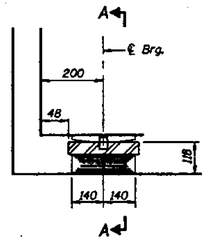
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-11
STRUCTURE NO. 016-0707
SHEET S-29 OF S-34 SHEETS

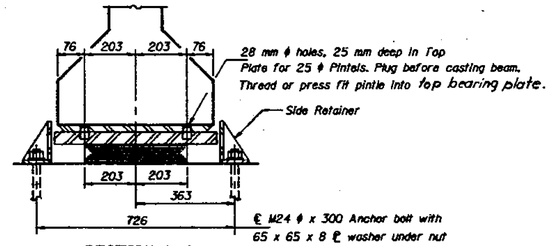
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	55
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1515 B	COOK	196	80
STA. 01+000.000		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

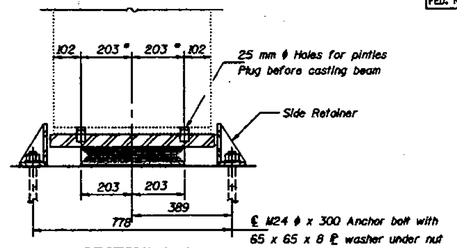
S 18 of S 26



SECTION AT ABUT.



SECTION A-A
(Beam E,F)

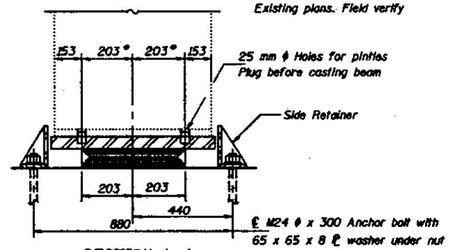


SECTION A-A
(Beam A,K)

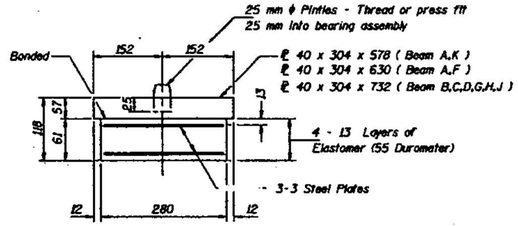
TYPE I ELASTOMERIC EXP. BRG.
(N. ABUT. ONLY)

Notes: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place.
See sheet S 19 of S 26 for anchor bolt installation.
All dimensions are in millimeters (mm) except as noted.

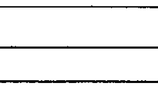
* Location & Size of Holes per Existing plans. Field verify



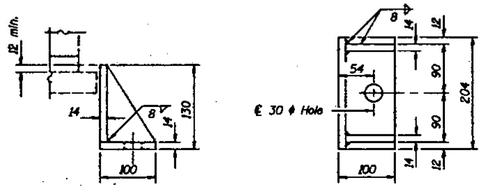
SECTION A-A
(Beam B,C,D,G,H,J)



BEARING ASSEMBLY
Note: Shim plates shall not be placed under Bearing Assembly.



PINTLE
(No. Required=20)



SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.
Weight included with structural steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	10

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago. IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELASTOMERIC BEARING DETAILS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.U.
DATE NOV. 1999 CHECKED BY D.B.Z./C.G.

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EPSTEIN

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PLOT DATE =	CHECKED - TCG	REVISED -

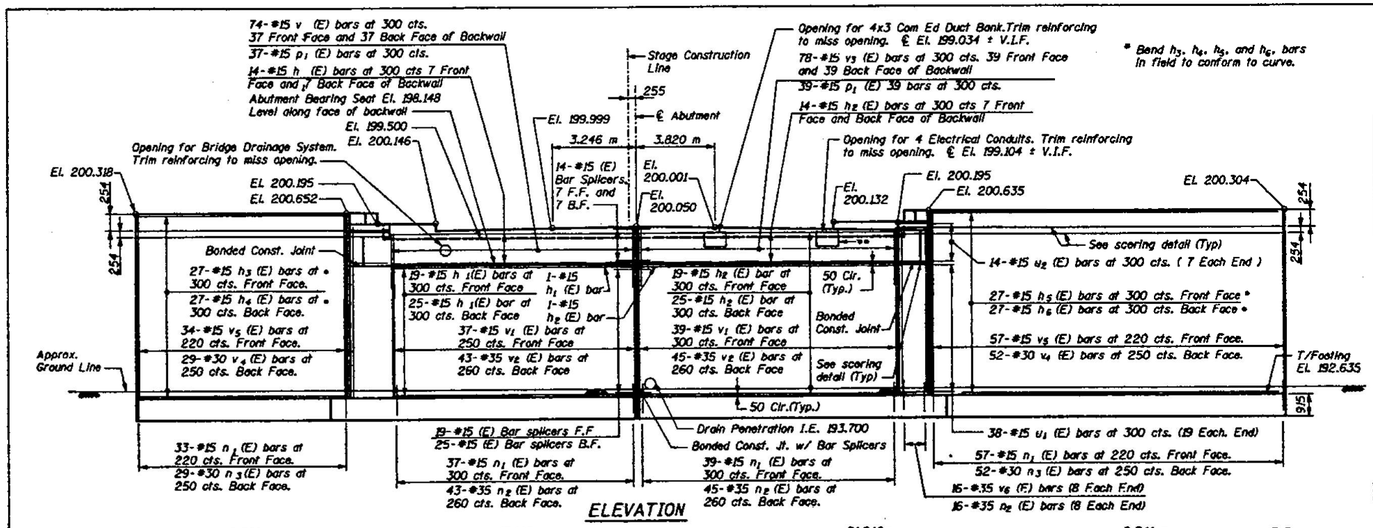
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SELECT EXISTING PLANS-12
STRUCTURE NO. 016-0707
SHEET S-30 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	56
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90	1515 B	COOK	156	85
STA. 01+000.000 TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

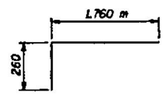
S 23 of S 26

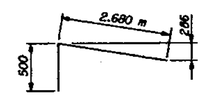


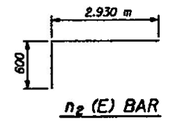
* Bend h_3, h_4, h_5, and h_6 bars in field to conform to curve.

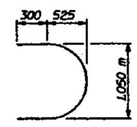
Bar Lap Length	
Bar	Lap Length (mm)
15	490
30	1410
35	2020

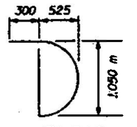
Bearing Pad Elevations	
Beam	Pad Elevations
A	198.218
B	198.246
C	198.276
D	198.304
E	198.334
F	198.334
G	198.301
H	198.273
J	198.243
K	198.209

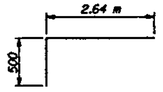


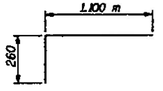


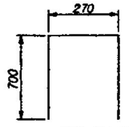


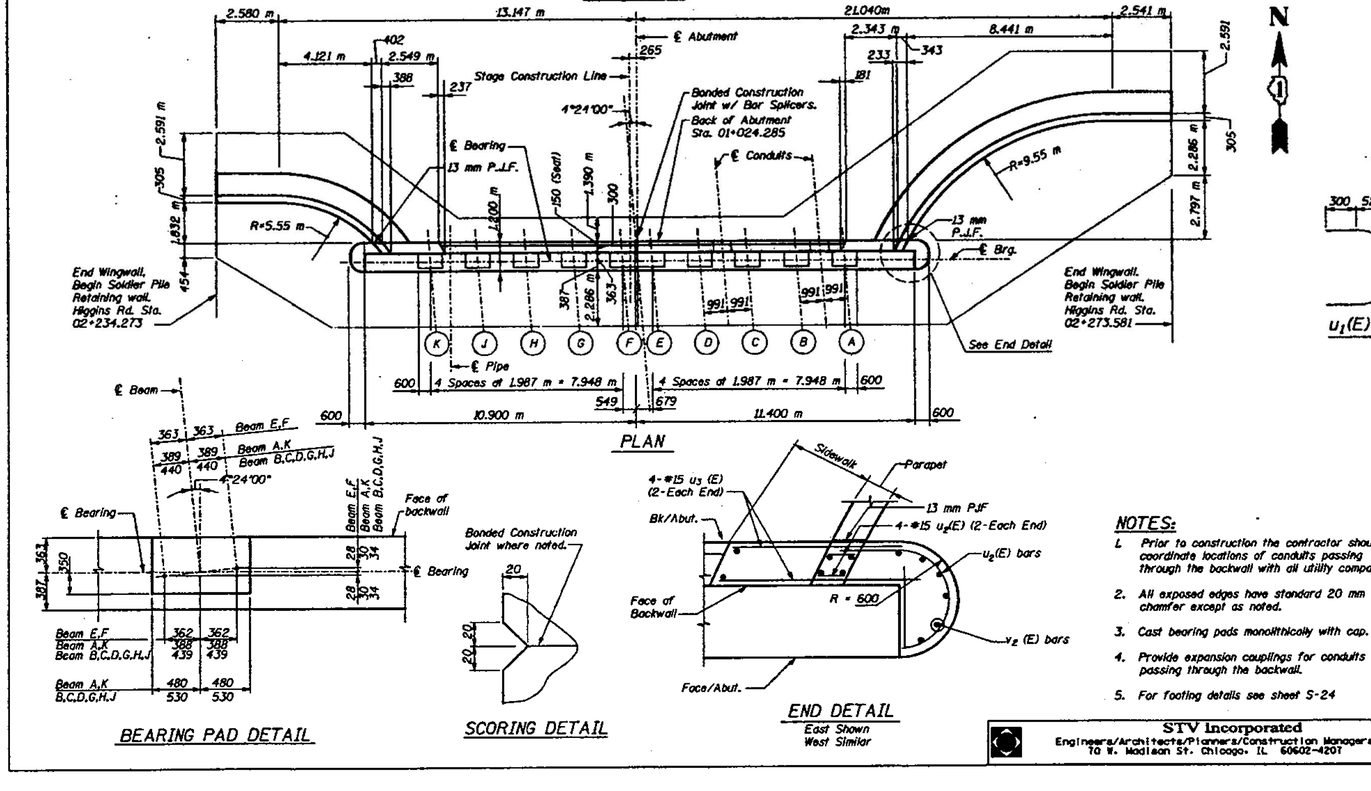












BEARING PAD DETAIL

SCORING DETAIL

END DETAIL
East Shown
West Similar

NOTES:

1. Prior to construction the contractor should coordinate locations of conduits passing through the backwall with all utility companies.
2. All exposed edges have standard 20 mm chamfer except as noted.
3. Cast bearing pads monolithically with cap.
4. Provide expansion couplings for conduits passing through the backwall.
5. For footing details see sheet S-24

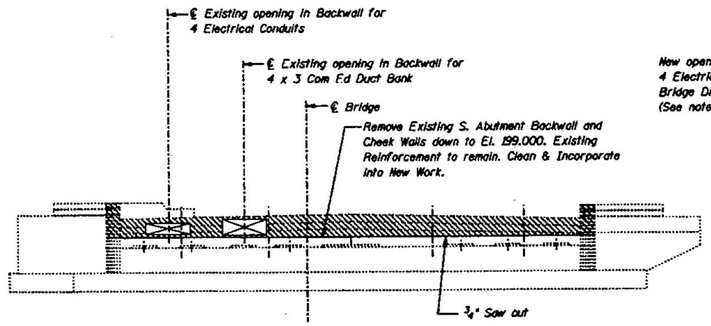
REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

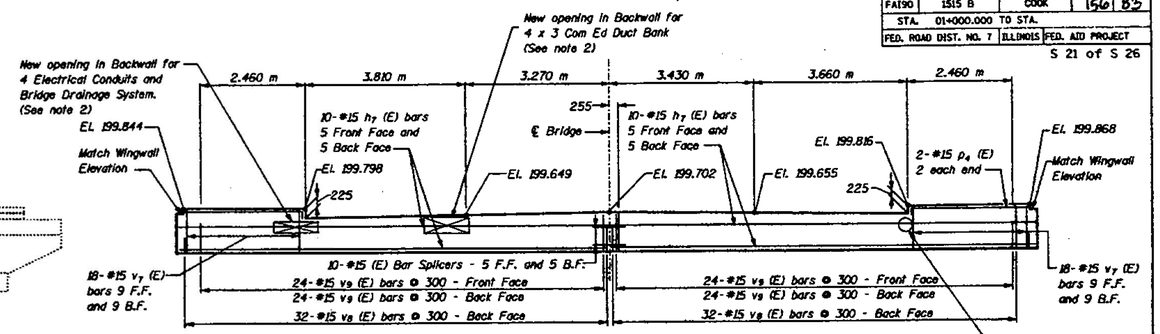
ILLINOIS DEPARTMENT OF TRANSPORTATION
NORTH ABUTMENT
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY : M.A.K.
DATE NOV. 1999 CHECKED BY : D.B.Z./J.D.C.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1515 B	COOK	156	83
STA.	01+000.000 TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

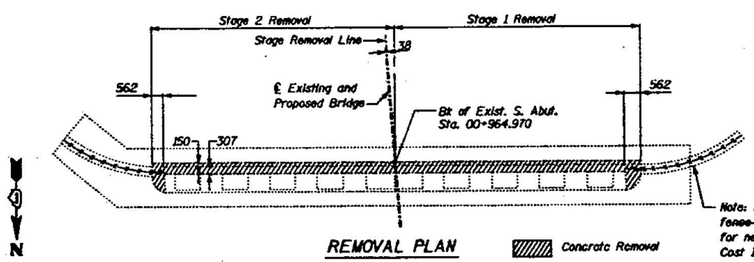
S 21 of S 26



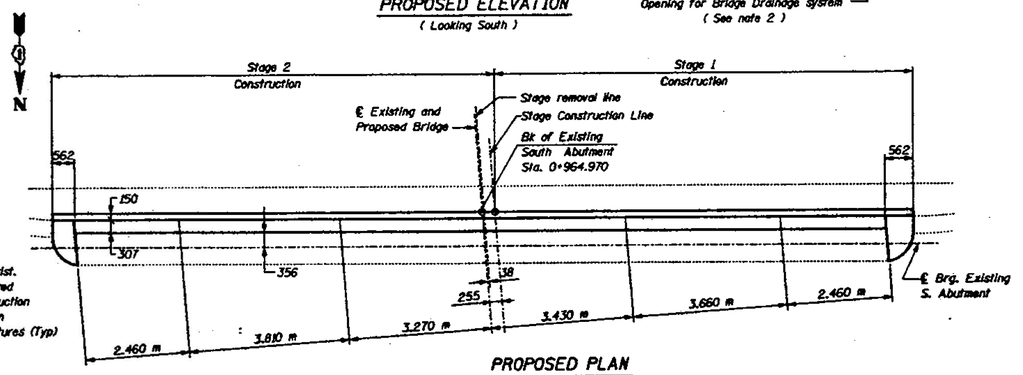
EXIST ELEVATION
(Looking South)



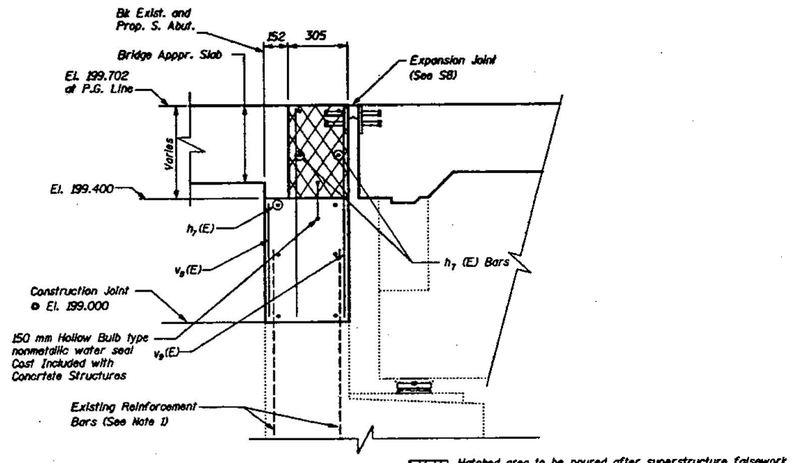
PROPOSED ELEVATION
(Looking South)



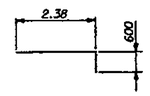
REMOVAL PLAN



PROPOSED PLAN



SECTION THRU SOUTH ABUTMENT



Bar p_4(E)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h_7(E)	20	15	10.00	———
p_4(E)	4	15	2.98	⌐
v_7(E)	36	15	0.76	———
v_8(E)	64	15	0.36	———
v_9(E)	96	15	0.53	———

ITEM	Unit	Quantity
Reinforcement Bars, Epoxy coated	Kg	492
Concrete Removal	m^3	6
Concrete Structures	m^3	7
Bar Splicers	Ea.	10

All bars designated (E) shall be epoxy coated.

Notes:

1. Existing reinforcement to remain and incorporated into new work. Clean existing bars prior to reuse.
2. Field adjust and cut reinf. as required to clear utilities.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
S. ABUTMENT DEMOLITION AND REPAIRS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY M.A.K.
DATE NOV, 1999 CHECKED BY D.B.Z/J.D.C.

MODEL: Default
FILE NAME: P:\Projects\2500025326\C_DESIGN\a_Civil\Working\Sheets\0160707_D160C66_SHT_EX14.dgn
7/23/2026 11:05:15 AM

USER NAME =	DESIGNED - KC	REVISED -	
	CHECKED - TCG	REVISED -	
PLOT SCALE =	DRAWN - KC	REVISED -	
PLOT DATE =	CHECKED - TCG	REVISED -	

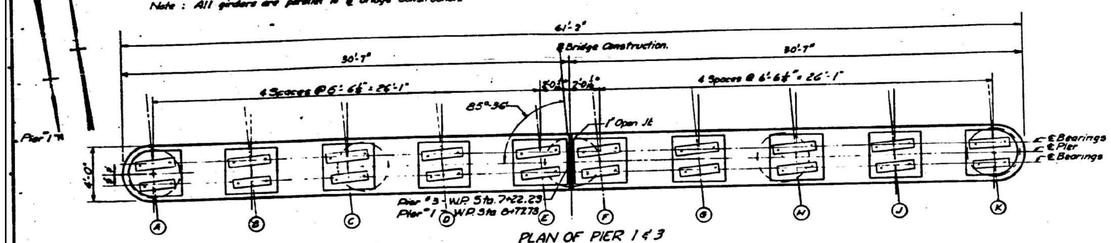
EPSTEIN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

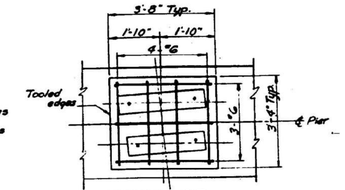
SELECT EXISTING PLANS-14
STRUCTURE NO. 016-0707
SHEET S-32 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	58
		CONTRACT NO. 80C66		
		ILLINOIS	FED. AID PROJECT	

Note : All girders are parallel to ℄ Bridge Construction.

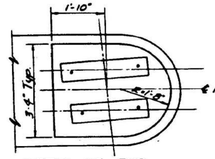


PLAN OF PIER 1 & 3
Scale: ¼" = 1'-0"

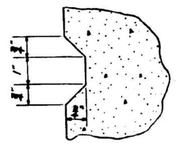


DETAIL OF BEARING PAD
Scale: ½" = 1'-0"

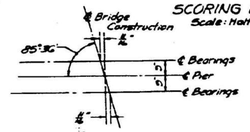
Note: Ends of Distribution Steel to extend 1'-0" below Top of Pier Cap.
Distribution Steel Required:
Pier 1 (C, D, E, F, G & H)
Pier 3 (C, D, E, F, G & H)



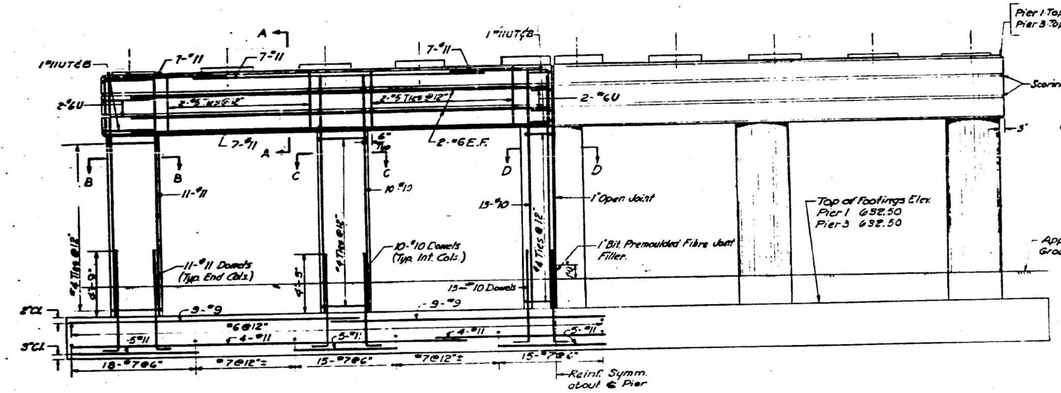
DETAIL OF END BEARING PAD
Scale: ½" = 1'-0"



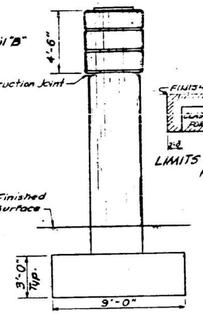
SCORING DETAIL "B"
Scale: Half Size



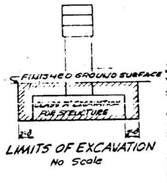
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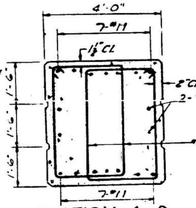
ELEVATION
Scale: ¼" = 1'-0"



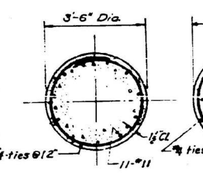
END ELEVATION
Scale: ¼" = 1'-0"



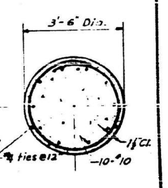
LIMITS OF EXCAVATION
No Scale



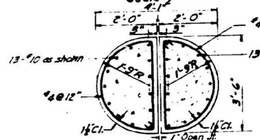
SECTION A-A
Scale: ½" = 1'-0"



SECTION B-B
Scale: ½" = 1'-0"

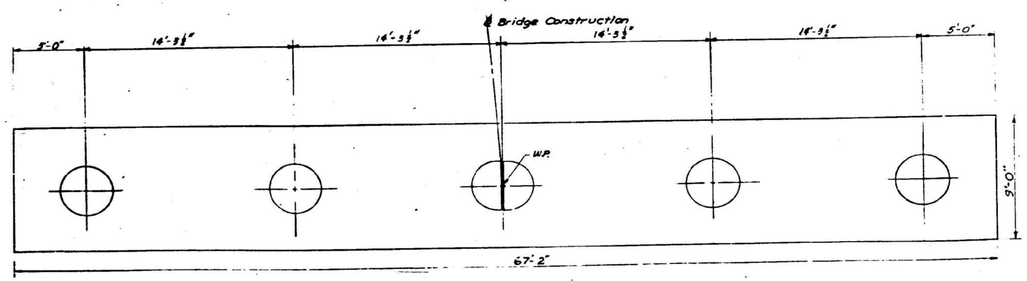


SECTION C-C
Scale: ½" = 1'-0"



SECTION D-D
Scale: ½" = 1'-0"

For Construction Notes See Sheet No. 106
For Anchor Bolt Detail see Sheet No. 109



PLAN OF FOOTING
Scale: ½" = 1'-0"

BEARING PAD ELEVATIONS *				
	PIER 1		PIER 3	
GIRDER	SPAN 1	SPAN 2	SPAN 5	SPAN 6
A	650.69	650.69	650.21	650.21
B	650.78	650.78	650.31	650.31
C	650.88	650.88	650.42	650.42
D	650.97	650.97	650.52	650.52
E	651.07	651.07	650.62	650.62
F	651.07	651.07	650.63	650.63
G	650.96	650.96	650.53	650.53
H	650.87	650.87	650.45	650.45
J	650.77	650.77	650.35	650.35
K	650.66	650.66	650.26	650.26

* Elevations given are of the intersections of ℄ Girders & ℄ Bearings.

BILL OF MATERIAL - 2 PIERS

CLASS 'X' CONCRETE	267 CU YDS
REINFORCEMENT BARS	47,880 LBS
CL. 155 A "EXCAVATION FOR STRUCTURES	366 CU YDS

Sec. 267-1515-15D

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
DANIEL RYAN — WILLIAM J. MORTIMER

PIER DETAILS PART 1
CANFIELD AVE. GRADE SEPARATION
OVER
NORTHWEST EXPRESSWAY

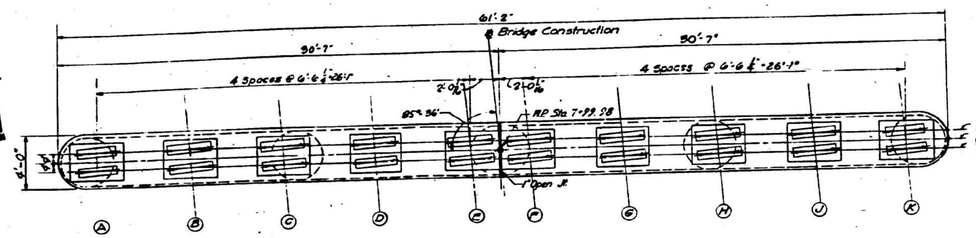
COMPUTED A.F.C. — PROJECT DU-245 (21)
DRAWN R.G.McC. — SCALE AS NOTED
CHECKED A.F.C. — APPROVED 11/7/75

Approved	F.A.I. Route No.	Section No.	State Aid Route No.	Sheet No.	Total Sheets	Drawing No.
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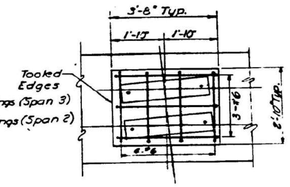
SAM. WEBB FORD & THORNDIKE, INC. ENGINEERS, BOSTON, MASS.

EPSTEIN	USER NAME =	DESIGNED - KC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SELECT EXISTING PLANS-15 STRUCTURE NO. 016-0707	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - TCG	REVISED -			90	(267-1515.F-15D) BJR, BDR 25	COOK	72	59
	PLOT SCALE =	DRAWN - KC	REVISED -						CONTRACT NO. 80C66	
	PLOT DATE =	CHECKED - TCG	REVISED -		SHEET S-33 OF S-34 SHEETS			ILLINOIS	FED. AID PROJECT	

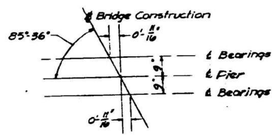
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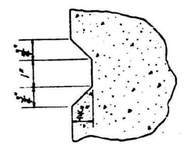
PLAN OF PIER 2
Scale: ⅛" = 1'-0"



DETAIL OF BEARING PAD
Scale ½"=1'-0"
Note: Ends of Distribution Steel to extend 1'-0" below abutment seat. Distribution Steel required for pods C, D, E, F, G, & H.

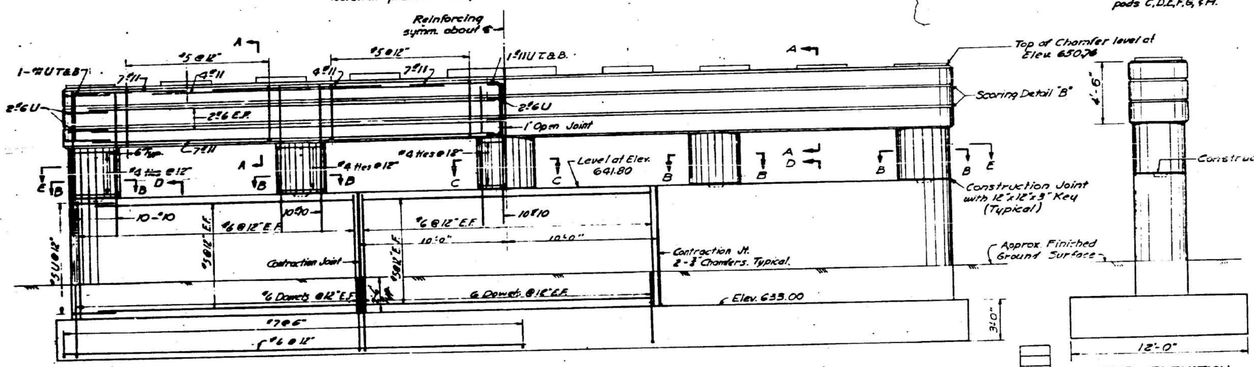


BEARING ALIGNMENT
No Scale



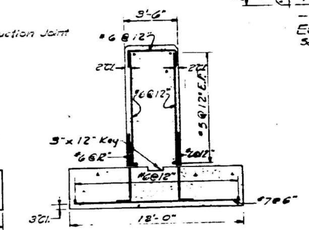
SCORING DETAIL "B"
Half Size

Note: All girders are parallel to ℄ Bridge Construction.

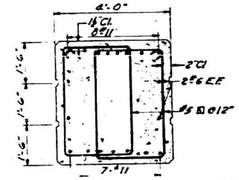


ELEVATION
Scale: ⅛"=1'-0"

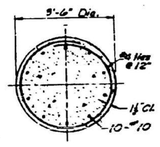
END ELEVATION
Scale: ⅛"=1'-0"

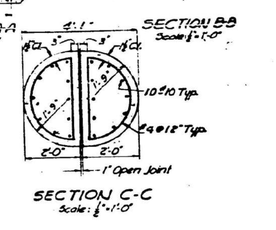


SECTION D-D
Scale: ⅛"=1'-0"



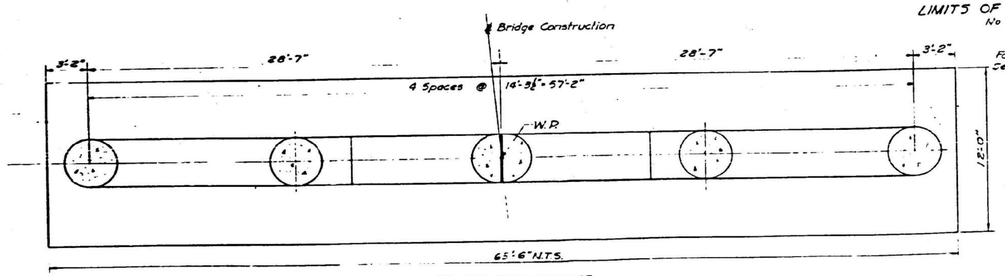
SECTION A-A
Scale ½"=1'-0"



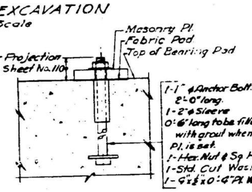


SECTION C-C
Scale: ½"=1'-0"

For Construction Notes See Sheet No. 106.



PLAN OF FOOTING
SECTION E-E
Scale: ⅛"=1'-0"



ANCHOR BOLT DETAIL
Scale: 1½"=1'-0"

FINISHED GROUND SURFACE
1'-0"
CLASS 'X' EXCAVATION FOR STRUCTURES
2'-0"

LIMITS OF EXCAVATION
No Scale

BEARING PAD ELEVATIONS *		
Girder	Span 2	Span 3
A	650.92	650.92
B	651.02	651.02
C	651.12	651.12
D	651.22	651.22
E	651.32	651.32
F	651.32	651.32
G	651.22	651.22
H	651.12	651.12
J	651.03	651.03
K	650.93	650.93

* Elevations given are at the intersections of ℄ Girders and ℄ Bearings.

BILL OF MATERIAL

CLASS "X" CONCRETE	200 CU. YDS.
REINFORCEMENT BARS	19,950 LBS.
CLASS "A" EXCAVATION FOR STRUCTURES	220. CU. YDS.

Sec. 267-1515-1 D

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

DANIEL RYAN, PRESIDENT, BOARD OF COMMISSIONERS
WILLIAM J. SCHNEIDER, SUPERINTENDENT OF HIGHWAYS

PIER DETAILS PART II
CANFIELD AVE. GRADE SEPARATION
OVER
NORTHWEST EXPRESSWAY

COMPUTED A.F.C. | DRAWN F.W. | CHECKED A.F.C.
PROJECT BU-27.5 (20)
SCALE AS NOTED
APPROVED

Approved	Sheets Inc.	Sheet No.	Title Sheets	Drawing No.
7-23-26	34	26?		

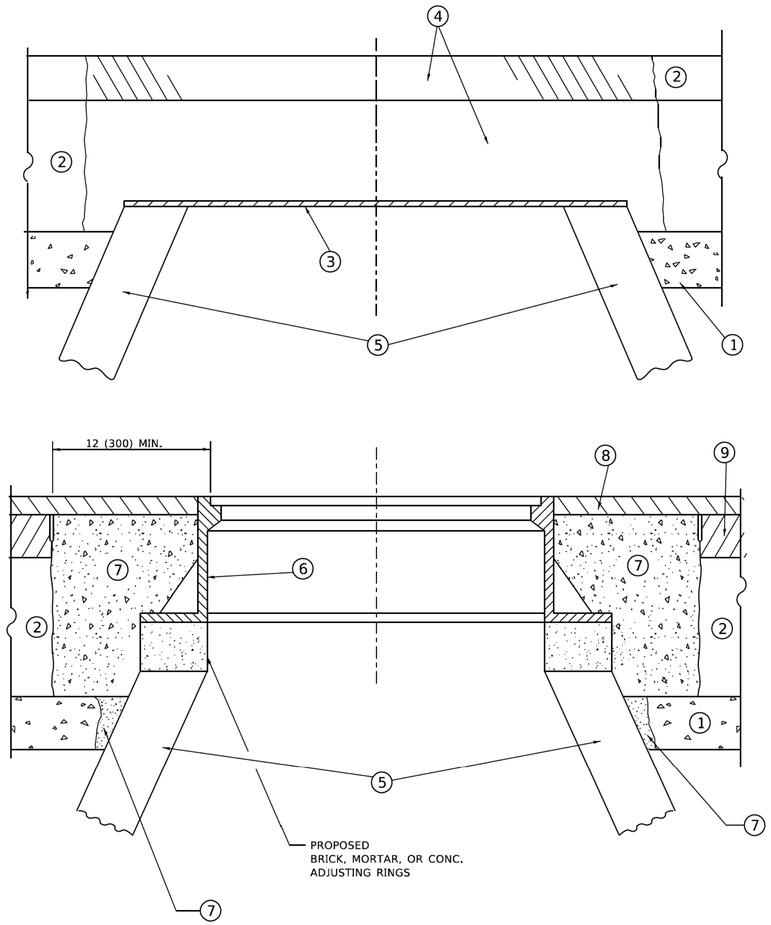
FAY, SPOFFORD & THORNDIKE, INC. ENGINEERS, BOSTON, MASS. - CHICAGO, ILL.

Q-2 390

EPSTEIN	USER NAME =	DESIGNED - KC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SELECT EXISTING PLANS-16 STRUCTURE NO. 016-0707
		CHECKED - TCG	REVISED -		
	PLOT SCALE =	DRAWN - KC	REVISED -		SHEET S-34 OF S-34 SHEETS
	PLOT DATE =	CHECKED - TCG	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	60
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		

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7/23/2026 11:05:40 AM



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS PP-2* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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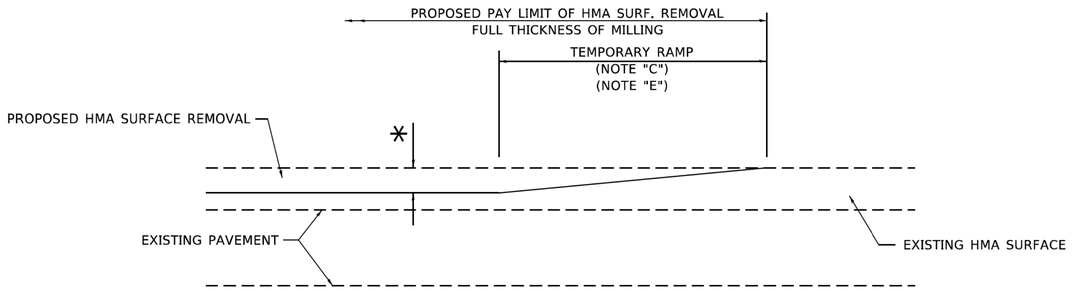
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	DRAWN - GA	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -	
PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (BD-08)

SCALE: | SHEET OF 12 SHEETS | STA. | TO STA.

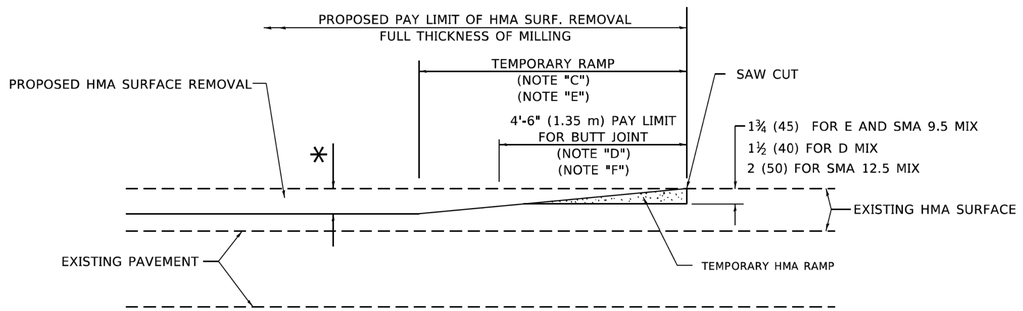
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	61
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

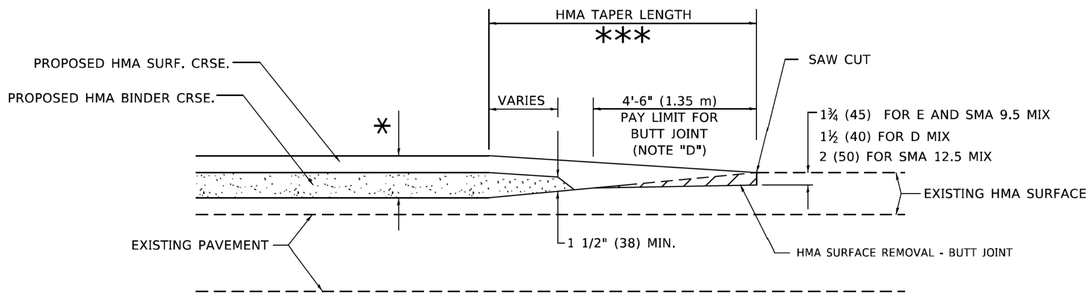


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

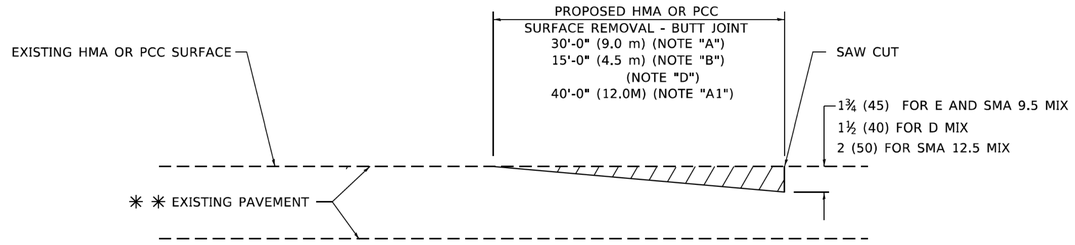
OPTION 2

TYPICAL TEMPORARY RAMP

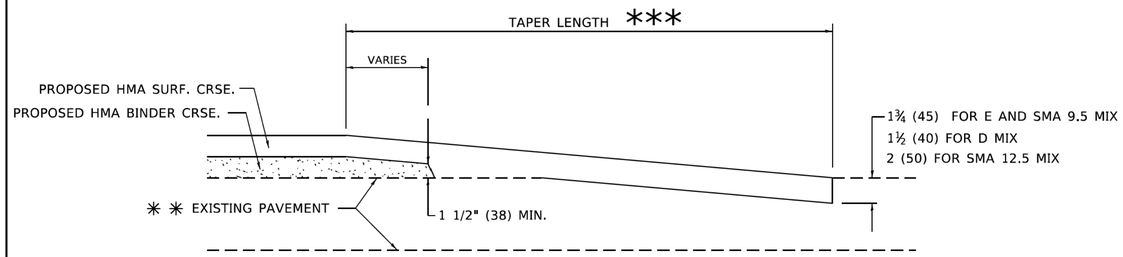


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

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

2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

USER NAME = galsailani	DESIGNED - GA	REVISED -
	DRAWN - GA	REVISED -
PLOT SCALE = $SCALE$	CHECKED - TPP	REVISED -
PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -

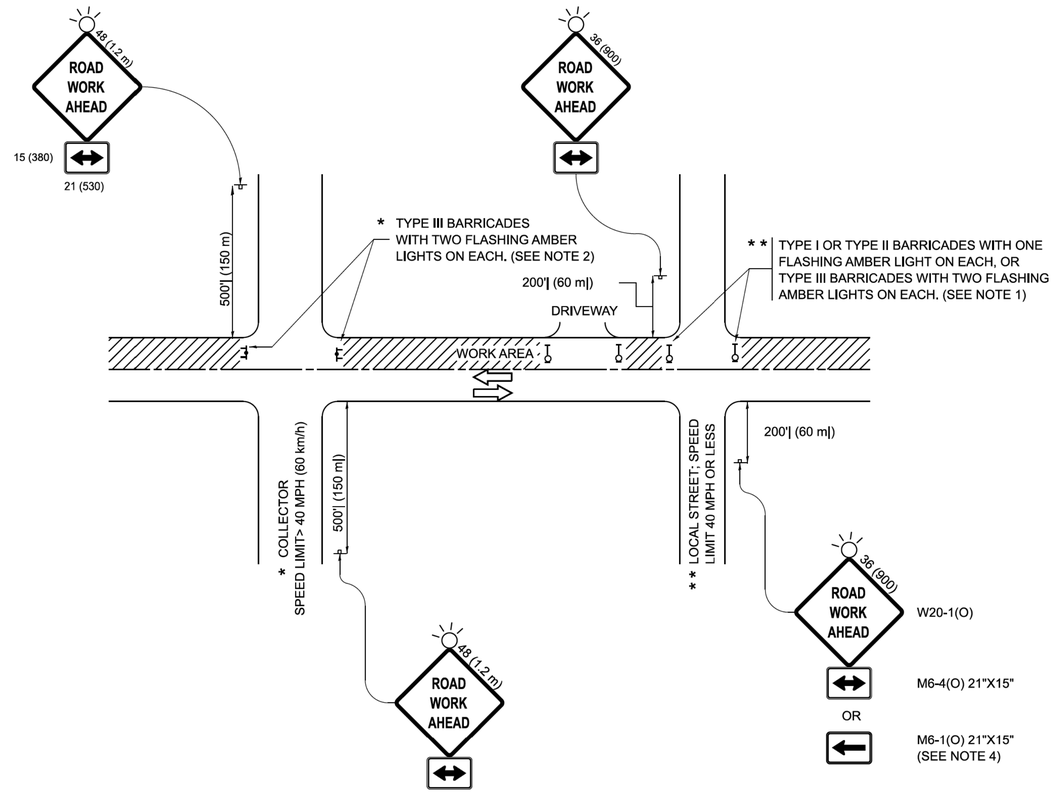
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (BD-32)

SCALE: 1"=1'-0" | SHEET OF 12 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	62
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

MODEL: BD-32_[Sheet]
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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 WORK 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 WORK 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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	DRAWN - GA	REVISED -	
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PLOT DATE = 9/29/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-10)

SCALE: 1"=1'-0" | SHEET OF 12 SHEETS | STA. | TO STA.

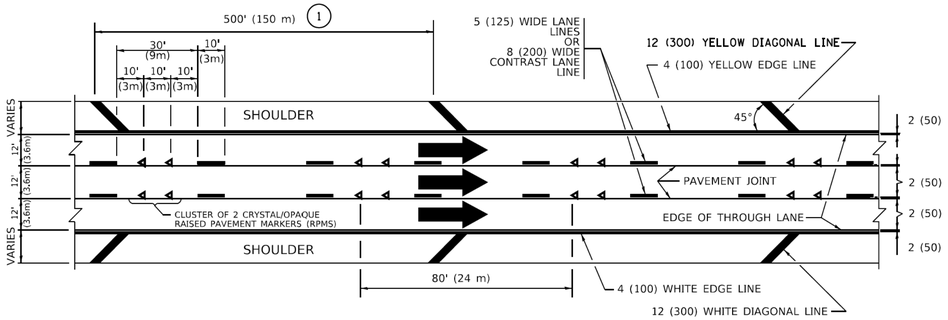
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	63
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

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	DRAWN - GA	REVISED -			
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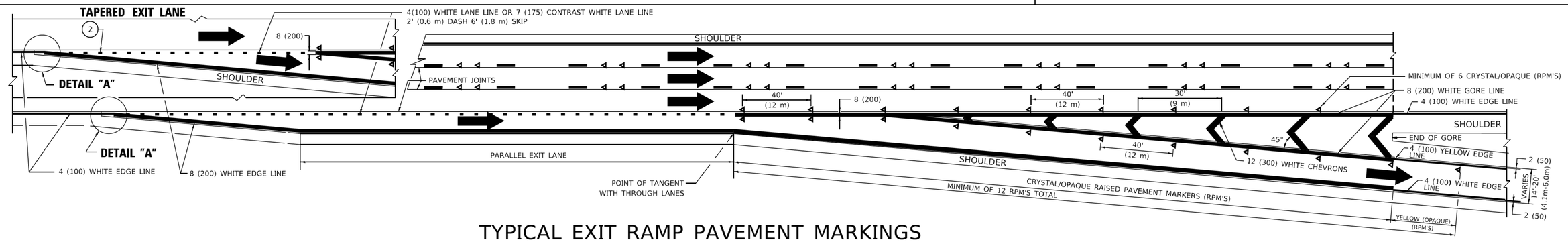
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	64
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			



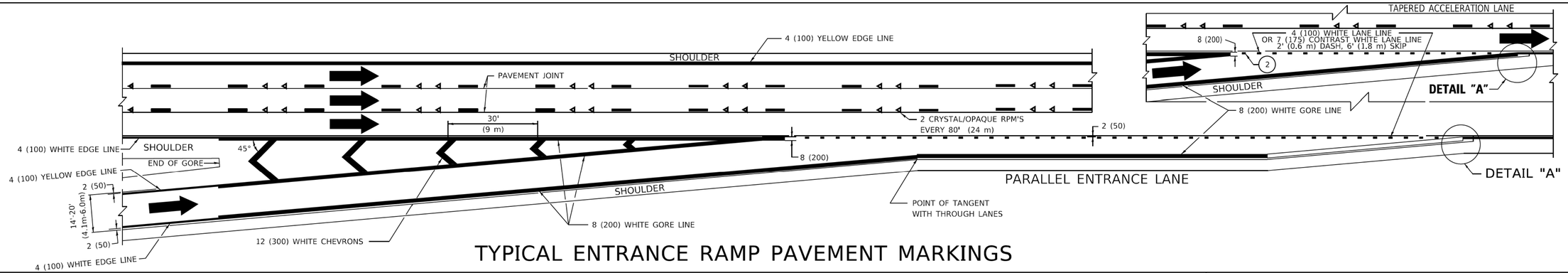
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

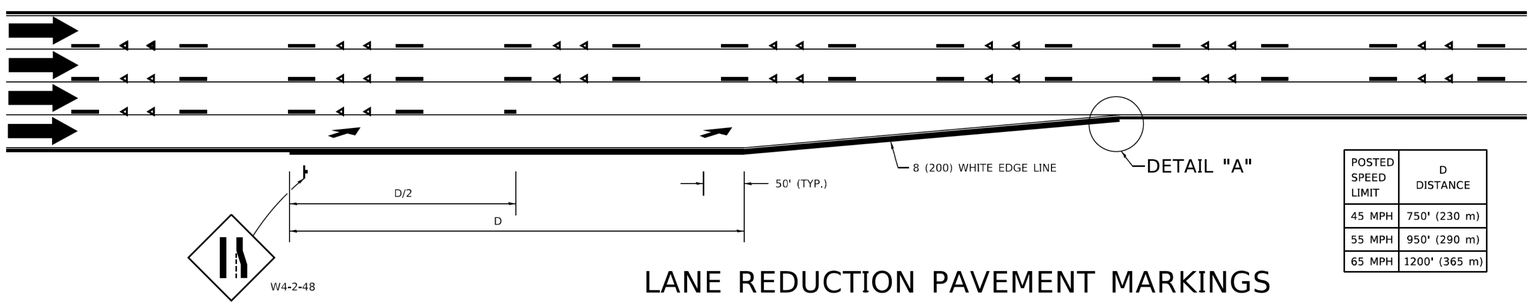
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE D, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

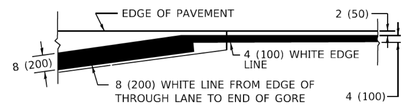


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

LANE REDUCTION PAVEMENT MARKINGS



DETAIL "A"

NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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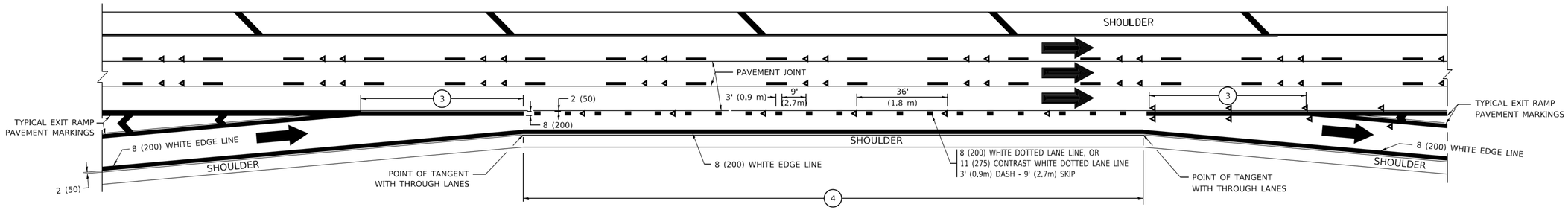
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	DRAWN - GA	REVISED -
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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

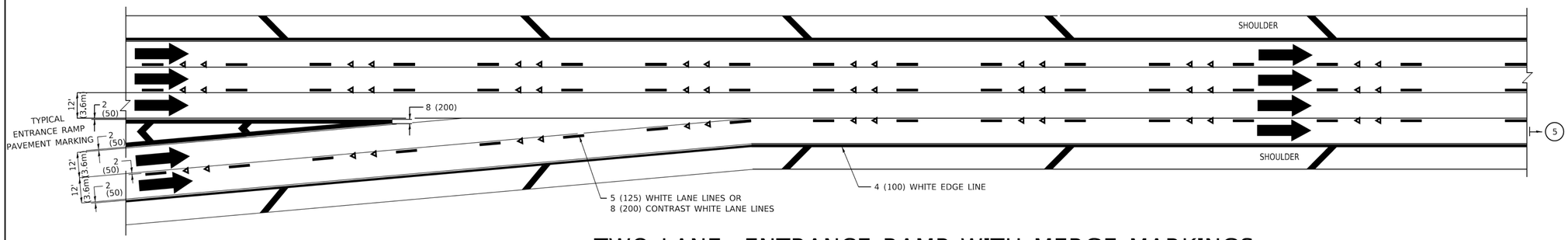
SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-12A)

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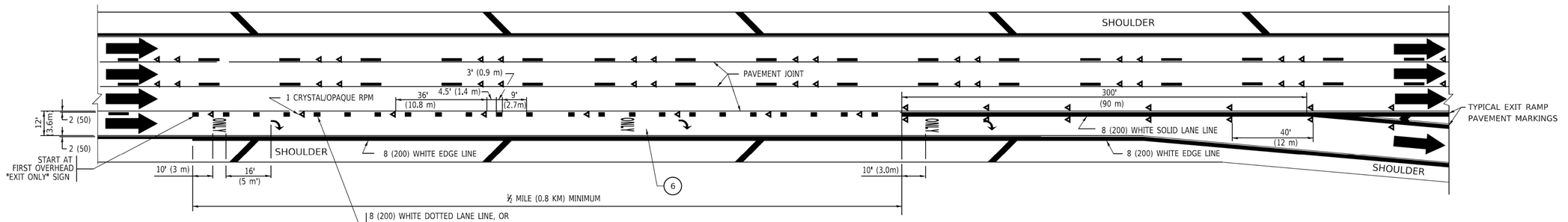
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90	(267-1515.F-15D) BJR, BDR 25	COOK	72	65
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



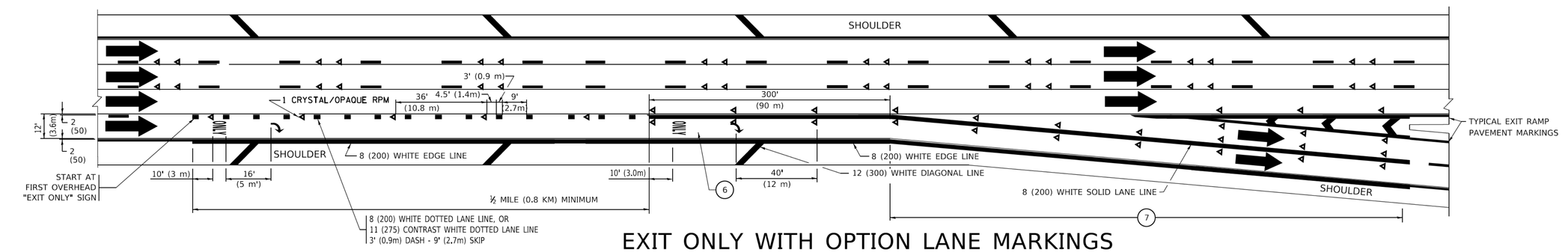
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

NOTES:

(3) OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).

(4) 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.

(5) FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.

(6) ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..

(7) CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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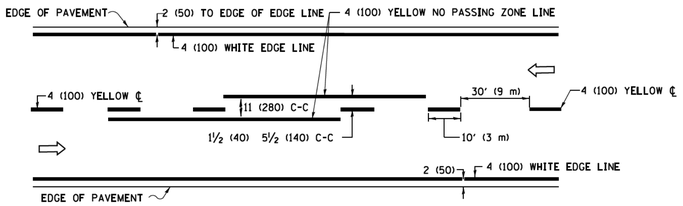
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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

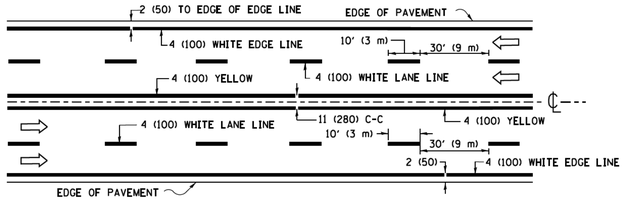
SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-12B)

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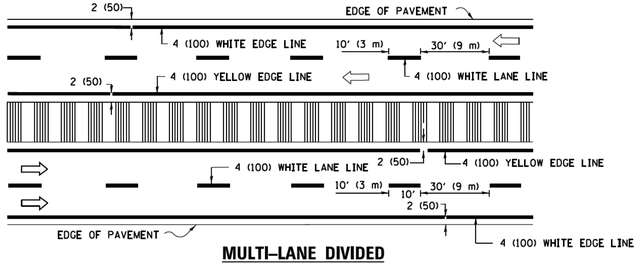
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	66
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			



2–LANE ROADWAY

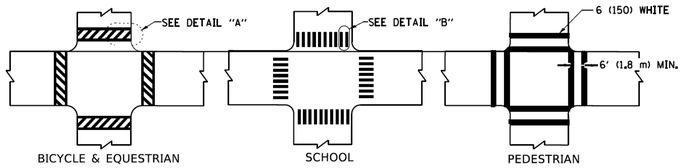


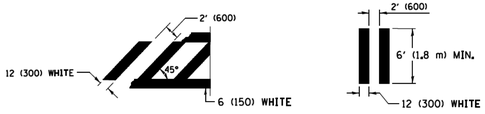
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

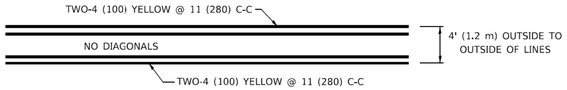




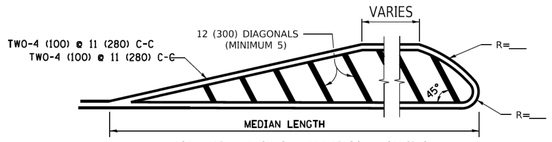
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



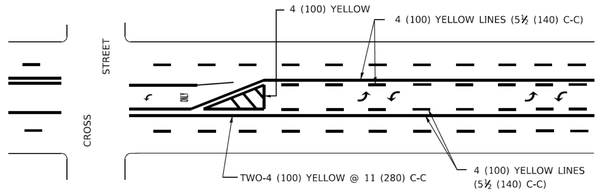
4' (1.2 m) WIDE MEDIANS ONLY



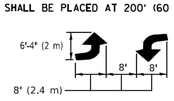
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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))

MEDIANS OVER 4' (1.2 m) WIDE

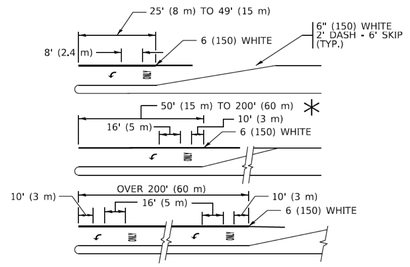


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

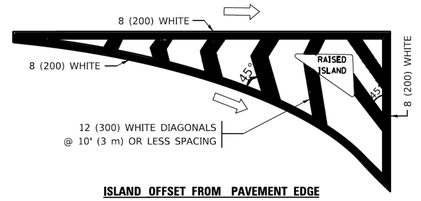


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

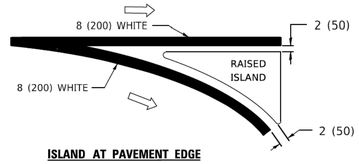
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

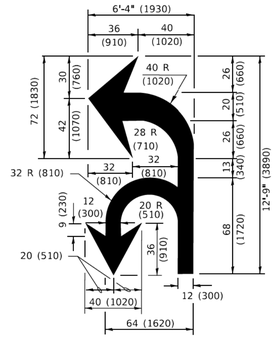


ISLAND OFFSET FROM PAVEMENT EDGE

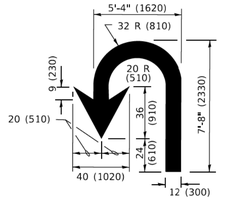


ISLAND AT PAVEMENT EDGE

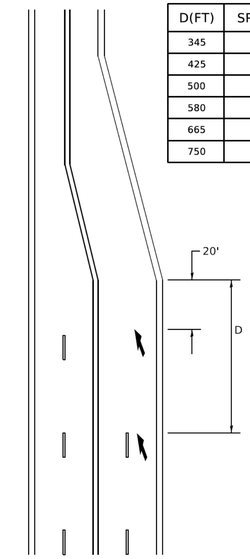
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

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	5½ (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; 5½ (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 ² EACH "X"=54.0 SQ. FT. (5.0 m ²
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 - GA	REVISED -	
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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-13)

SCALE: 1"=1'-0" | SHEET OF 12 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	67
		CONTRACT NO. 80C66		
		ILLINOIS	FED. AID PROJECT	

ROUTE MARKERS

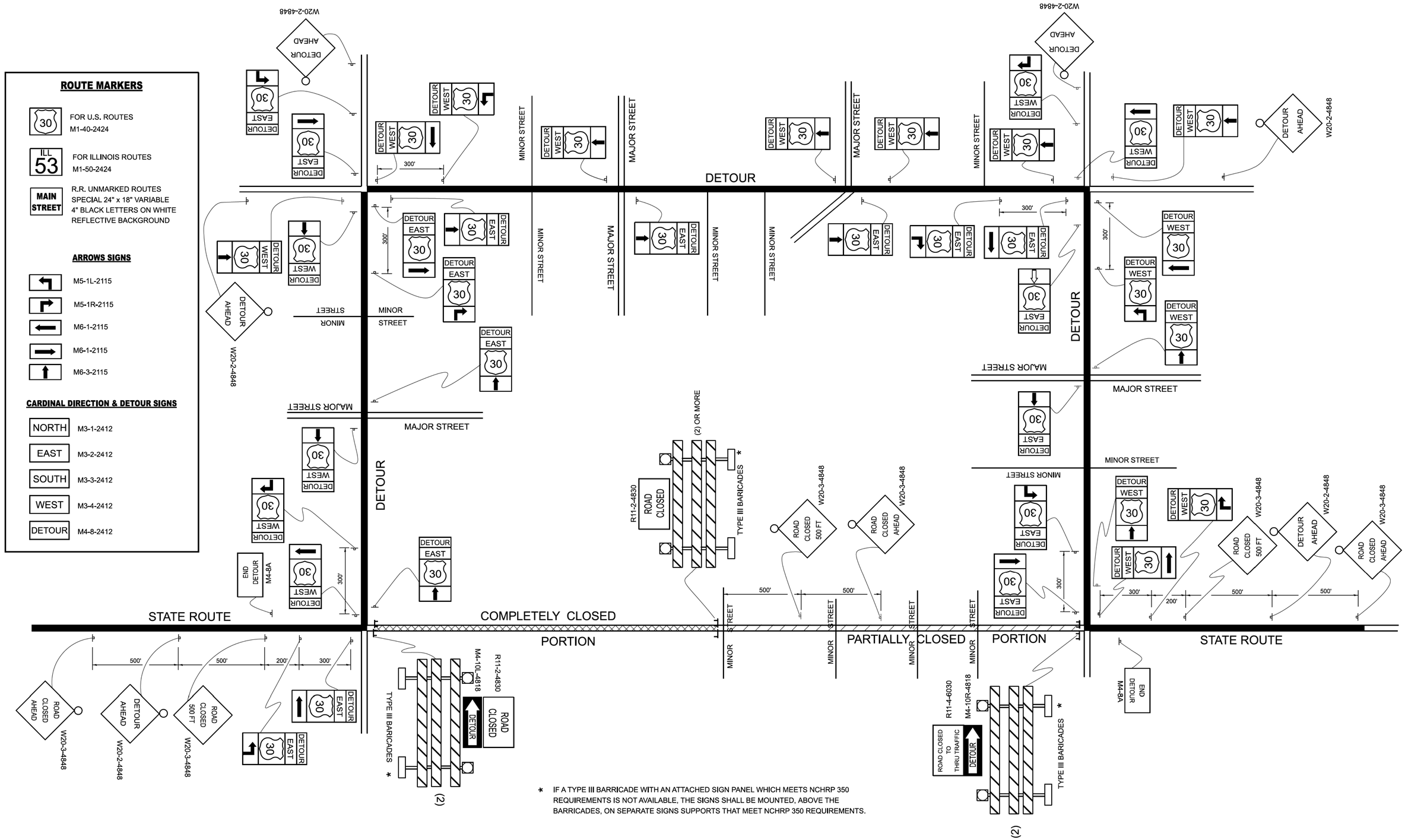
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH — M3-1-2412
- EAST — M3-2-2412
- SOUTH — M3-3-2412
- WEST — M3-4-2412
- DETOUR — M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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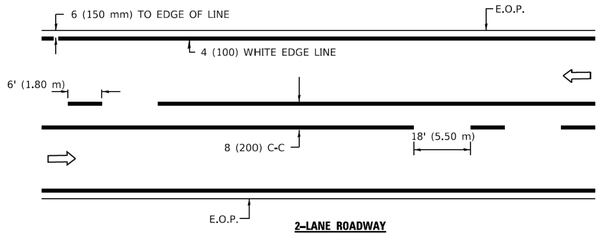
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	DRAWN - GA	REVISED -	
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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-21)

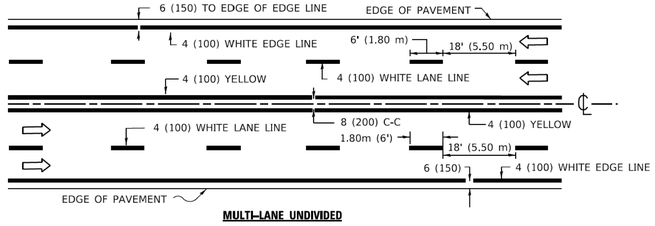
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			

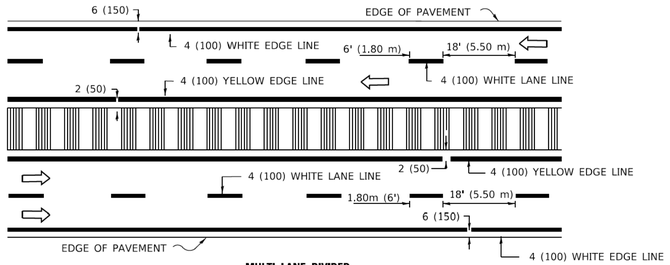
THIS SHEET INTENTIONALLY LEFT BLANK



2–LANE ROADWAY



MULTI–LANE UNDIVIDED

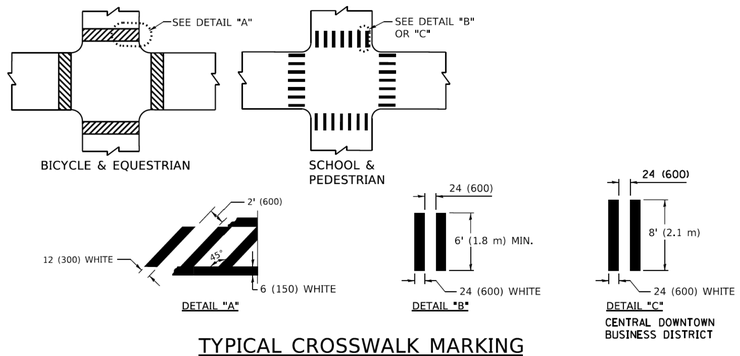


MULTI–LANE DIVIDED

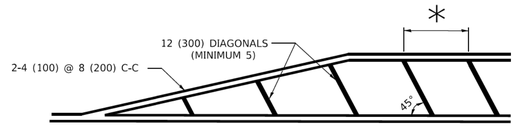
WITH MOUNTABLE MEDIAN

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

TYPICAL LANE AND EDGE LINE MARKING



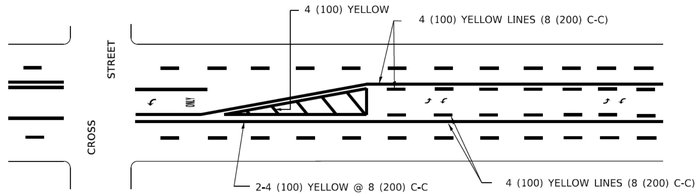
TYPICAL CROSSWALK MARKING



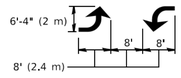
∗ FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

∗ DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

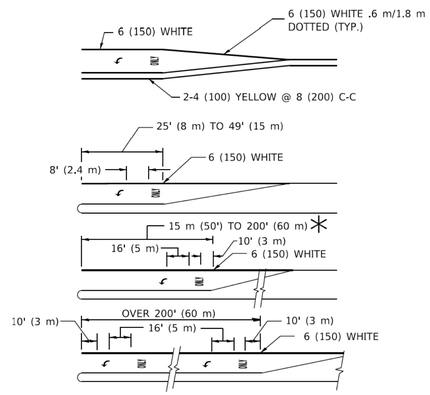


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

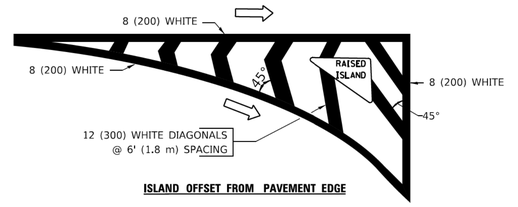


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.8 SQ. FT. (1.47 m²) ONLY AREA = 22.9 SQ. FT. (2.13 m²)

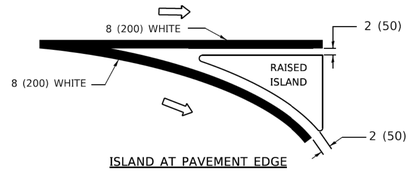
∗ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	 4 (100) 2 @ 4 (100)	 SOLID SOLID	 YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	 12 (300) @ 45° 24 (600) @ 90°	 SOLID SOLID	 WHITE WHITE	 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°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m²) EACH "X"=54.0 SQ. FT. (5.0 m²)

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

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

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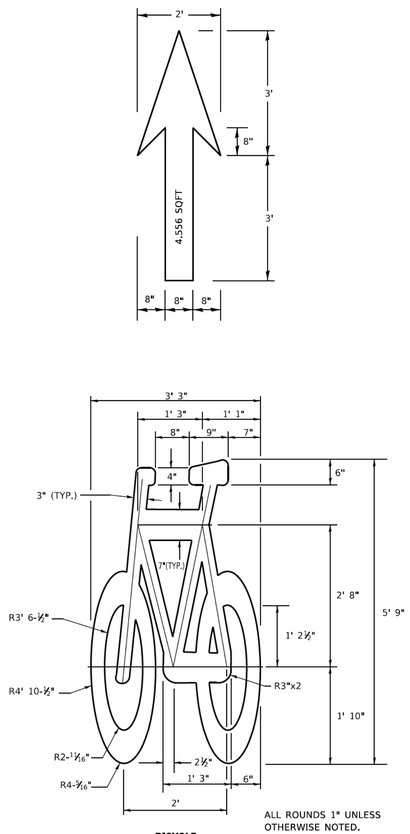
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	DRAWN - GA	REVISED -	
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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-24A)

SCALE: 1"=1'-0" | SHEET OF 12 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	70
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		



ALL ROUNDS 1" UNLESS OTHERWISE NOTED.

BICYCLE LANE SYMBOL

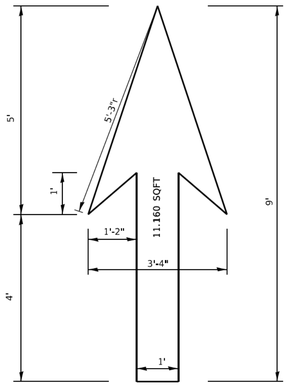
NOTE:

1. FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.

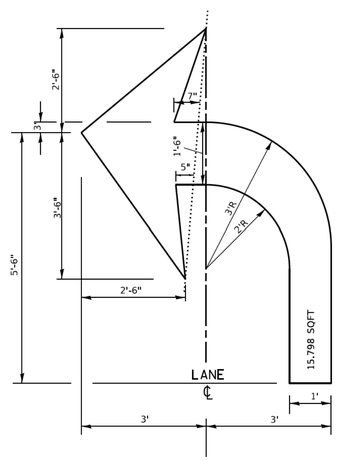
2. THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28

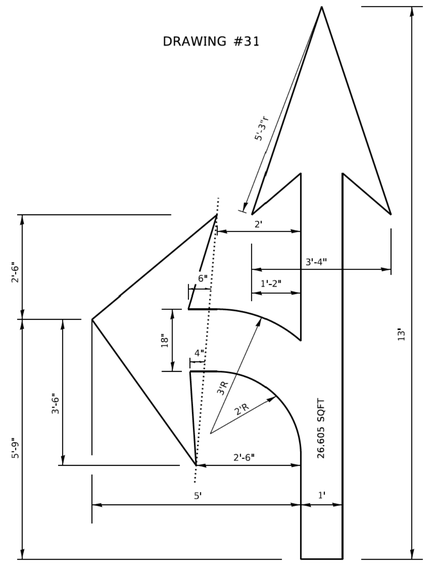
DRAWING #29



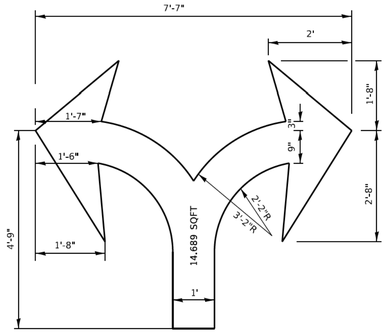
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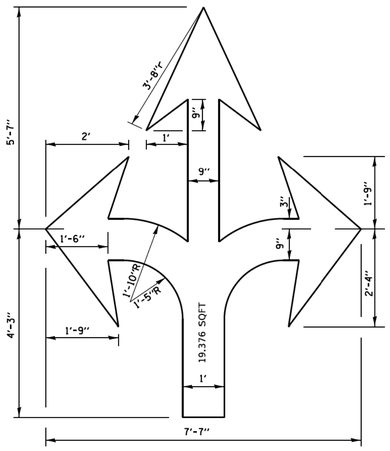
DRAWING #31



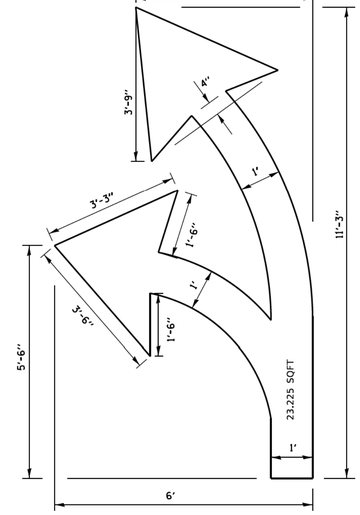
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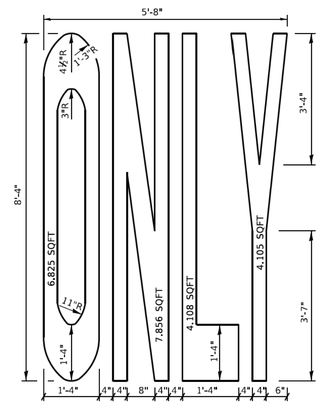
DRAWING #33



DRAWING #34



DRAWING #35



NOTE:

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

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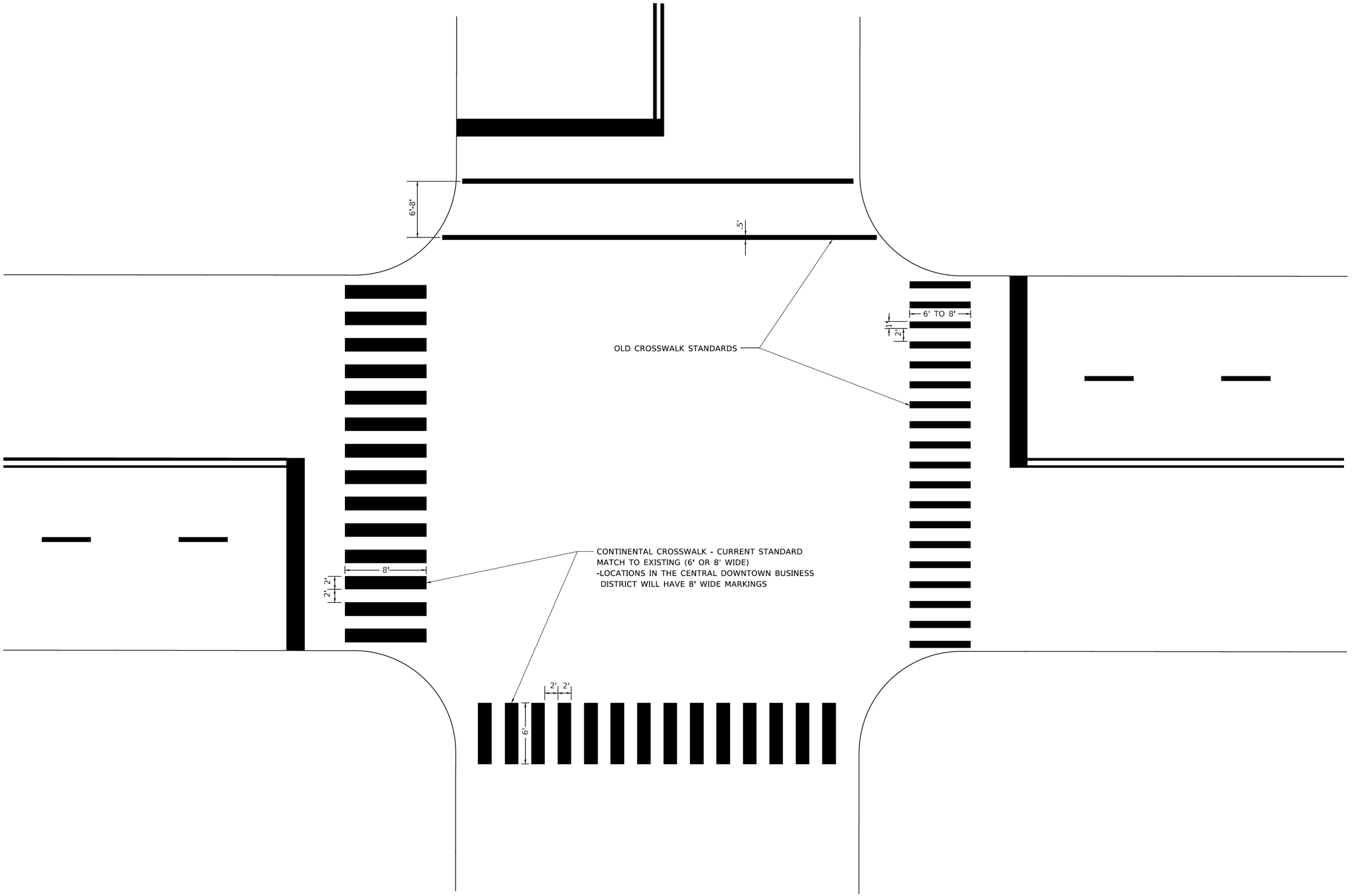
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	DRAWN - GA	REVISED -	
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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-24B)

SCALE: 1"=1'-0" | SHEET OF 12 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	71
		CONTRACT NO. 80C66		
	ILLINOIS FED. AID PROJECT			



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PLOT DATE = 7/9/2026	DATE - 5/15/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-0707 I-90 AT CANFIELD AVE
D1 STANDARDS (TC-24C)

SCALE: 1"=1'-0" | SHEET OF 12 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(267-1515.F-15D) BJR, BDR 25	COOK	72	72
		CONTRACT NO. 80C66		
	ILLINOIS	FED. AID PROJECT		