

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	1
FED. ROAD DIST. NO. 1		ILLINOIS CONTRACT NO. 62R99		

D-91-220-22

FOR INDEX OF SHEETS, SEE SHEET NO.2

Ciorba Group, Inc.

DESIGN FIRM  
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS  
8725 W. HIGGINS RD, SUITE 600  
CHICAGO, ILLINOIS 60631 :: (773) 775-4009

# PROPOSED HIGHWAY PLANS

FAP 311 /US 34 (OGDEN AVENUE)  
OVER IHB RAILROAD

SECTION: FAP 0311 22 BJ

PROJECT: NHPP-1RPG948

BRIDGE DECK SCARIFICATION AND OVERLAY

COOK COUNTY

C-91-273-22

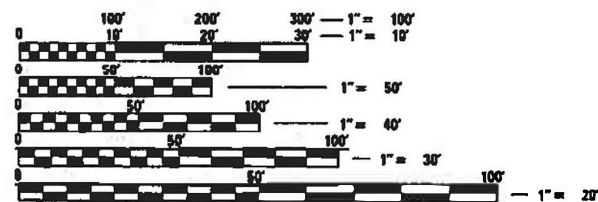


### FUNCTIONAL CLASS

#### US 34 (OGDEN AVE)

OTHER PRINCIPAL ARTERIAL  
ADT (2021) = 25500  
ADT (2040) = 25755  
DESIGN SPEED = 35 MPH  
POSTED SPEED = 30 MPH

### PROJECT LOCATED IN THE CITY OF LAGRANGE



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

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

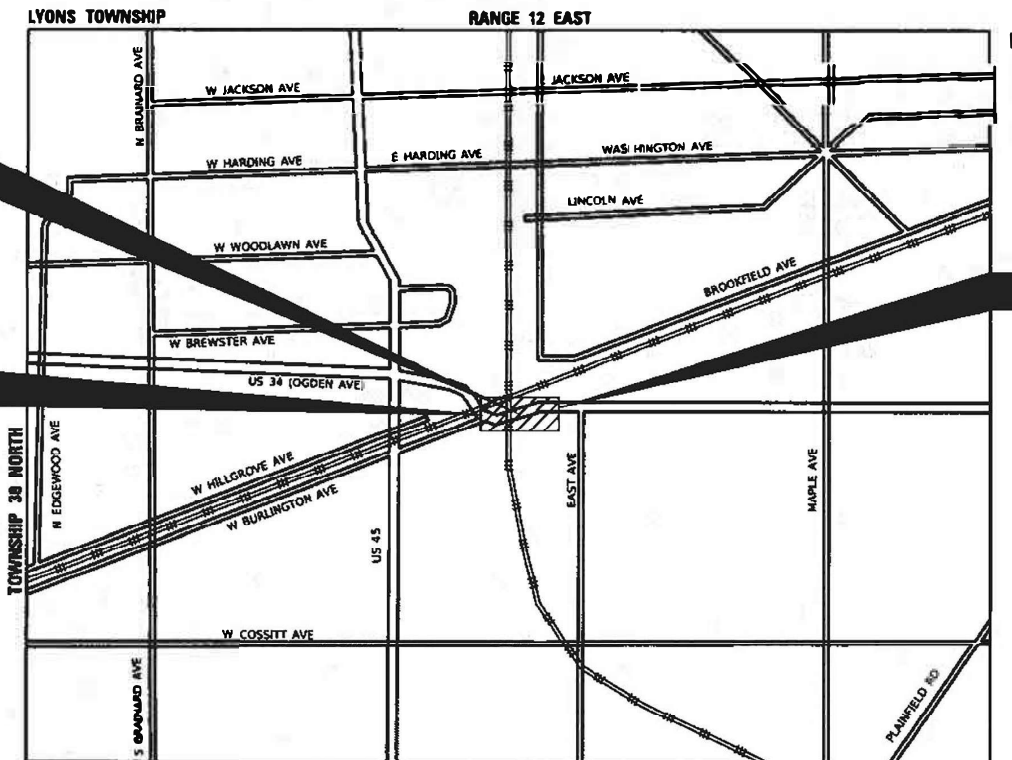
PROJECT MANAGER: PRAVEEN KAINI

CONTRACT NO. 62R99

EXISTING S.N. 016-0225  
STA 14+12.64 TO STA 21+88.45

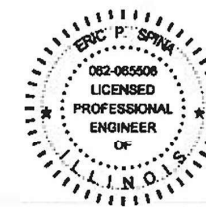
PROJECT BEGINS  
STA 11+03.48

PROJECT ENDS  
STA 26+79.97



LYONS TOWNSHIP RANGE 12 EAST  
LYONS TOWNSHIP  
LOCATION MAP  
(NOT TO SCALE)

GROSS LENGTH = 1,576.49 FT. = 0.298 MILE  
NET LENGTH = 1,576.49 FT. = 0.298 MILE



DATE: 10/4/2024  
SEAL EXPIRES: 11/30/2025  
SHEETS: 1 - 25  
78 - 83

DATE: 10/4/2024  
SEAL EXPIRES: 11/30/2025  
SHEETS: 26 - 75

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 16 2024  
*[Signature]* REGIONAL ENGINEER

December 6, 2024  
*[Signature]* ENGINEER OF DESIGN AND ENVIRONMENT

December 6, 2024  
*[Signature]* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
442201-03	CLASS C AND D PATCHES
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600MM) FROM PAVEMENT EDGE
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON- TRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**IDOT DISTRICT ONE DETAILS**

BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
TC-16	SHORT TERM PAVEMENT MARKIN LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

**GENERAL NOTES**

- THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT AND CONSTRUCTION MATERIALS WITHIN THE FOUR QUADRANTS OF THE BRIDGE, EXCEPT IN AREAS SPECIFIED BY THE ENGINEER. ANY CONSTRUCTION DEBRIS ACCUMULATED WITHIN THE AFOREMENTIONED AREAS SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MAKINGS, THE ENGINEER SHALL CONTACT EMAD AL HUSSEINI, AREA TRAFFIC ENGINEER AT EMAD.ALHUSSEINI@ILLINOIS.GOV
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.
- TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN, THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT INCLUDING THE ROADSIDE DEVELOPMENT UNIT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 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.
- FURNISHING, INSTALLING, AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. PLACEMENT SHALL BE AS INDICATED BY THE PLANS. TEMPORARY CONCRETE BARRIER WALL SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS WHERE A 37-INCH CLEAR ZONE FREE FROM DROP-OFFS, FIXED OBJECTS, OR OTHER OBSTACLES CANNOT BE PROVIDED BEHIND THE WALL AND 24" DEFLECTION AREA BEHIND FREE STANDING TEMPORARY CONCRETE BARRIER WALL.
- EXISTING VEGETATED AREAS (TREES, SHRUBS, VEGETATIVE BUFFERS, TURF AREAS, ETC.) WHERE DISTURBANCE IS NOT OCCURRING (INCLUDING AREAS OUTSIDE THE PROJECT LIMITS) SHALL NOT BE DISTURBED TO ENSURE THAT EXISTING VEGETATION IS PRESERVED HEALTHY TO MINIMIZE SOIL EROSION AND TO ELIMINATE SOIL COMPACTION. NO MATERIALS ARE TO BE STORED OR VEHICLES DRIVEN OR PARKED WITHIN THESE UNDISTURBED AREAS AT ANY TIME.
- TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIPLINE OF THE TREES, SHRUBS, AND LANDSCAPED BEDS WITHIN THE LIMITS OF CONSTRUCTION DESIGNATED TO REMAIN TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED UNDER THE BNSF RAILROAD BRIDGE.
- A NOMINAL AMOUNT OF FOLLOWING ITEMS HAVE BEEN ADDED TO BE USED BY THE DIRECTION OF THE ENGINEER.

COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	100	FOOT
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	100	FOOT



USER NAME = Roadway	DESIGNED - EPS	REVISED -
	DRAWN - AMH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 11/18/2024	DATE - 11/18/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 34 (OGDEN AVE) OVER IHB RAILROAD  
INDEX, STANDARDS & GENERAL NOTES**

SCALE: N.T.S. | SHEET 01 OF 01 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	2
CONTRACT NO. 62R99			ILLINOIS FED. AID PROJECT	



SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL	CONSTR. CODE
					80% FED 20% STATE
					BRIDGE 0059 S.N. 016-0225
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	198	198
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20	20
	40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	525	525
	40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	387	387
	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	64	64
	50102400	CONCRETE REMOVAL	CU YD	60.1	60.1
	50157300	PROTECTIVE SHIELD	SQ YD	1,767	1,767
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	67.1	67.1
	50300300	PROTECTIVE COAT	SQ YD	5,332	5,332
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9,460	9,460
	50800515	BAR SPLICERS	EACH	84	84
	52000025	PREFORMED JOINT SEAL 2"	FOOT	42	42



USER NAME = Roadway	DESIGNED - EPS	REVISED -
	DRAWN - AMH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 10/15/2024	DATE - 10/15/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

US 34 (OGDEN AVE) OVER IHB RAILROAD SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		311	FAP 0311 22 BJ	COOK	83	3
SCALE: N.T.S.		SHEET 01 OF 05 SHEETS		STA.	TO STA.	

CONTRACT NO. 62R99		ILLINOIS FED. AID PROJECT	
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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL	CONSTR. CODE
					80% FED 20% STATE
					BRIDGE 0059 S.N. 016-0225
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	349	349
	58700300	CONCRETE SEALER	SQ FT	1,955	1,955
	59000200	EPOXY CRACK INJECTION	FOOT	111	111
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5	5
	67100100	MOBILIZATION	L SUM	1	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	84	84
	70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	73	73
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	12,636	12,636
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	38	38
	70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	13	13
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,000	1,000
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,000	1,000

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL	CONSTR. CODE
					80% FED 20% STATE
					BRIDGE 0059 S.N. 016-0225
	70600235	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2	2
	70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,272	6,272
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	514	514
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	165	165
*	78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	388	388
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4,376	4,376
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	112	112
*	78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	388	388
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	16
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16	16

**\* SPECIALTY ITEM**

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL	CONSTR. CODE
					80% FED 20% STATE
					BRIDGE 0059 S.N. 016-0225
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	7,994	7,994
*	X8860105	DETECTOR LOOP REPLACEMENT	FOOT	140	140
	Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	4,542	4,542
<input type="checkbox"/>	Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1	1
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	4,542	4,542
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	153	153
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	41	41
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	7	7
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1
	Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	8	8
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4,206	4,206
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	58	58
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
	Z0041895	POLYMER CONCRETE	CU FT	10	10

\* SPECIALTY ITEM

NON-PART 100% STATE

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL	CONSTR. CODE
					80% FED 20% STATE
					BRIDGE 0059 S.N. 016-0225
	Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	5	5
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2
	X0325748	ACRYLIC COATING	SQ YD	34.1	34.1
	X0325749	FIBER WRAP	SQ FT	307	307
	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	100	100
	X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	100	100
	X4421768	CLASS D PATCHES, TYPE IV, 10 INCH (SPECIAL)	SQ YD	749	749
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	4,120	4,120
	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	40	40
*	X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REPLACEMENT REFLECTOR	EACH	40	40

**\* SPECIALTY ITEM**



USER NAME = Roadway	DESIGNED - EPS	REVISED -
	DRAWN - AMH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 10/17/2024	DATE - 10/17/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 34 (OGDEN AVE) OVER IHB RAILROAD  
SUMMARY OF QUANTITIES**

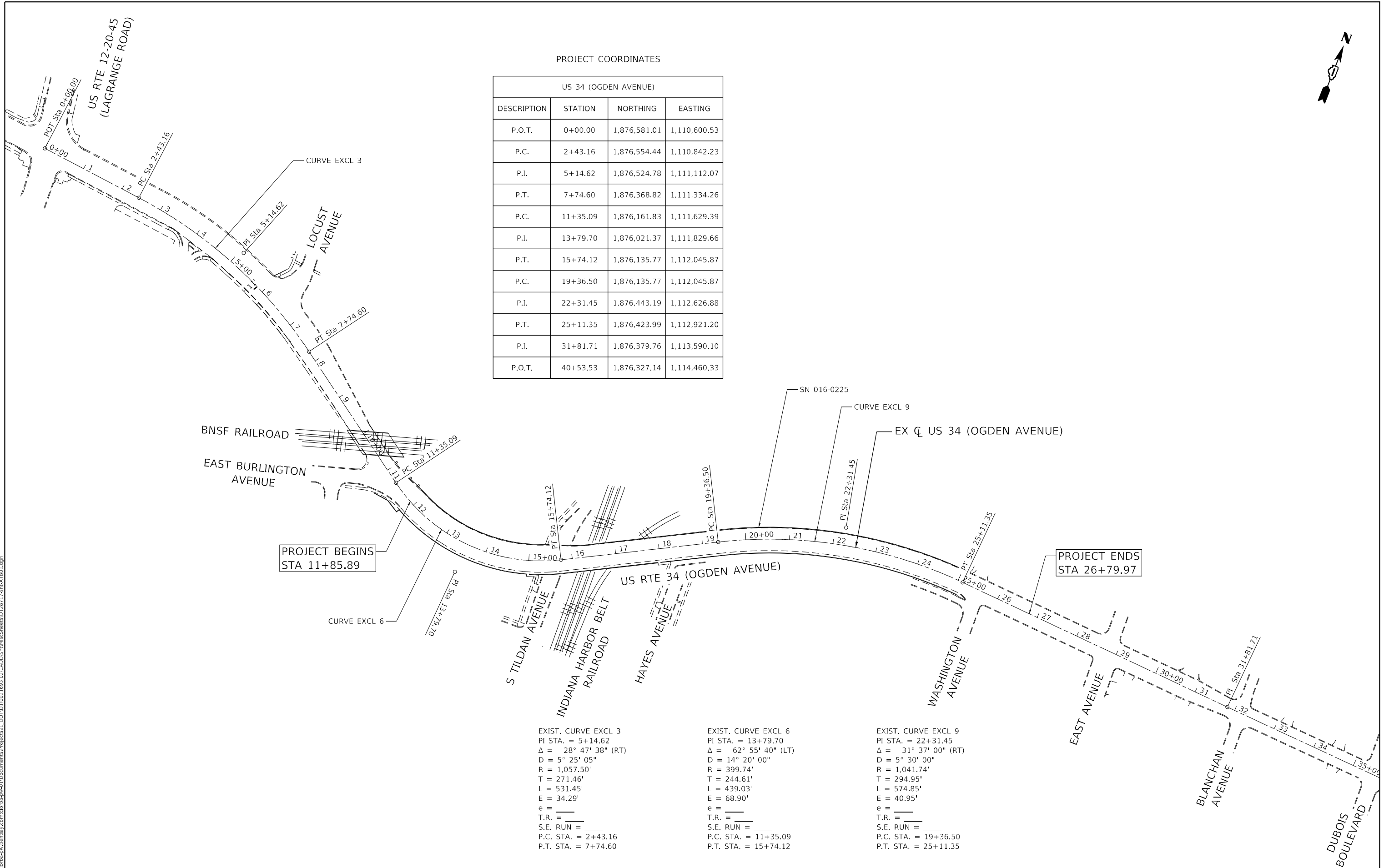
SCALE: N.T.S. SHEET 05 OF 05 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62R99	



PROJECT COORDINATES

US 34 (OGDEN AVENUE)			
DESCRIPTION	STATION	NORTHING	EASTING
P.O.T.	0+00.00	1,876,581.01	1,110,600.53
P.C.	2+43.16	1,876,554.44	1,110,842.23
P.I.	5+14.62	1,876,524.78	1,111,112.07
P.T.	7+74.60	1,876,368.82	1,111,334.26
P.C.	11+35.09	1,876,161.83	1,111,629.39
P.I.	13+79.70	1,876,021.37	1,111,829.66
P.T.	15+74.12	1,876,135.77	1,112,045.87
P.C.	19+36.50	1,876,135.77	1,112,045.87
P.I.	22+31.45	1,876,443.19	1,112,626.88
P.T.	25+11.35	1,876,423.99	1,112,921.20
P.I.	31+81.71	1,876,379.76	1,113,590.10
P.O.T.	40+53.53	1,876,327.14	1,114,460.33



EXIST. CURVE EXCL\_3  
 PI STA. = 5+14.62  
 $\Delta$  = 28° 47' 38" (RT)  
 D = 5° 25' 05"  
 R = 1,057.50'  
 T = 271.46'  
 L = 531.45'  
 E = 34.29'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 2+43.16  
 P.T. STA. = 7+74.60

EXIST. CURVE EXCL\_6  
 PI STA. = 13+79.70  
 $\Delta$  = 62° 55' 40" (LT)  
 D = 14° 20' 00"  
 R = 399.74'  
 T = 244.61'  
 L = 439.03'  
 E = 68.90'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 11+35.09  
 P.T. STA. = 15+74.12

EXIST. CURVE EXCL\_9  
 PI STA. = 22+31.45  
 $\Delta$  = 31° 37' 00" (RT)  
 D = 5° 30' 00"  
 R = 1,041.74'  
 T = 294.95'  
 L = 574.85'  
 E = 40.95'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 19+36.50  
 P.T. STA. = 25+11.35

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USER NAME = Roadway	DESIGNED - EPS	REVISED -
	DRAWN - AMH	REVISED -
PLOT SCALE = 200,000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 10/4/2024	DATE - 10/4/2024	REVISED -

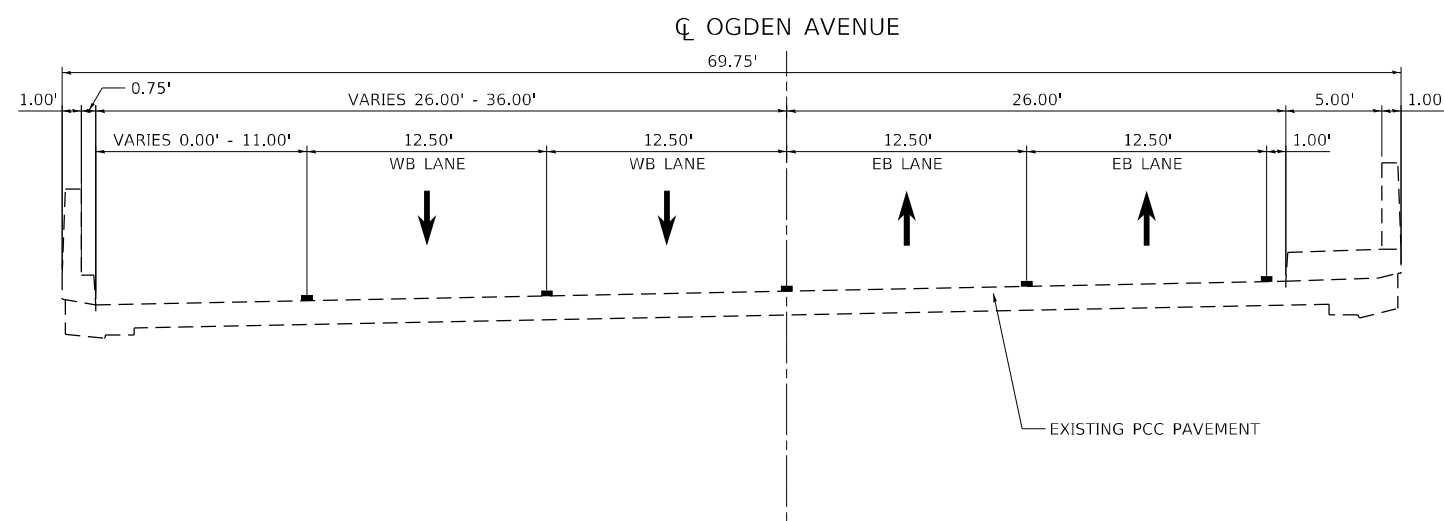
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 34 (OGDEN AVE) OVER IHB RAILROAD  
 ALIGNMENT SHEET

SCALE: 1" = 100' SHEET 1 OF 2 SHEETS STA. TO STA.

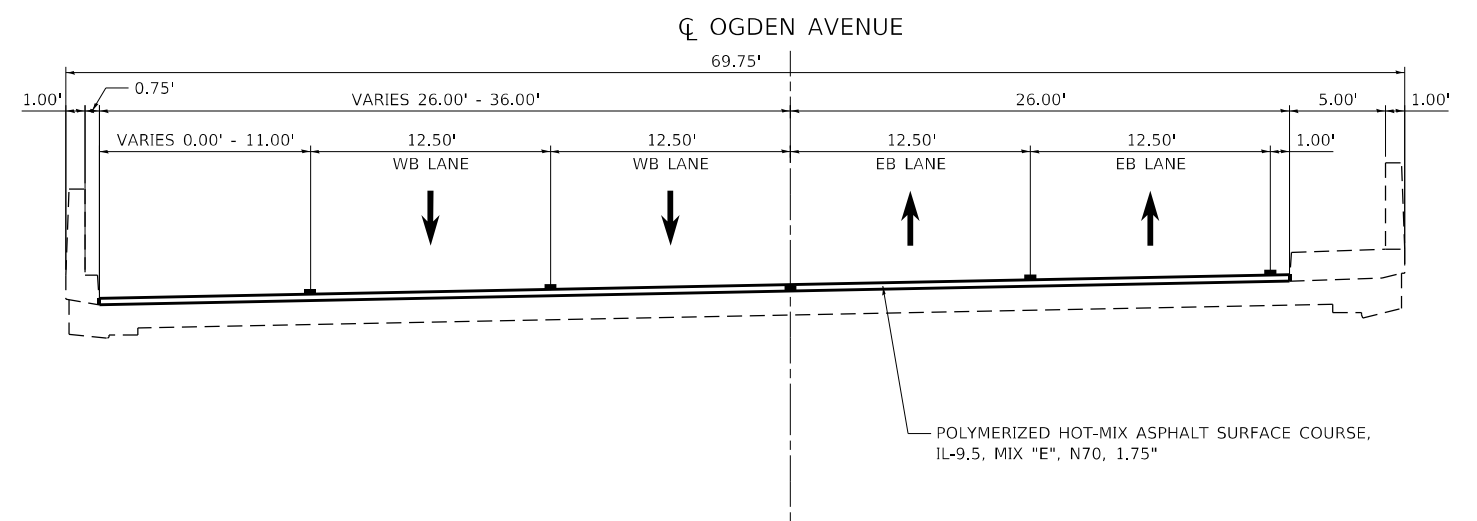
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	8
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				





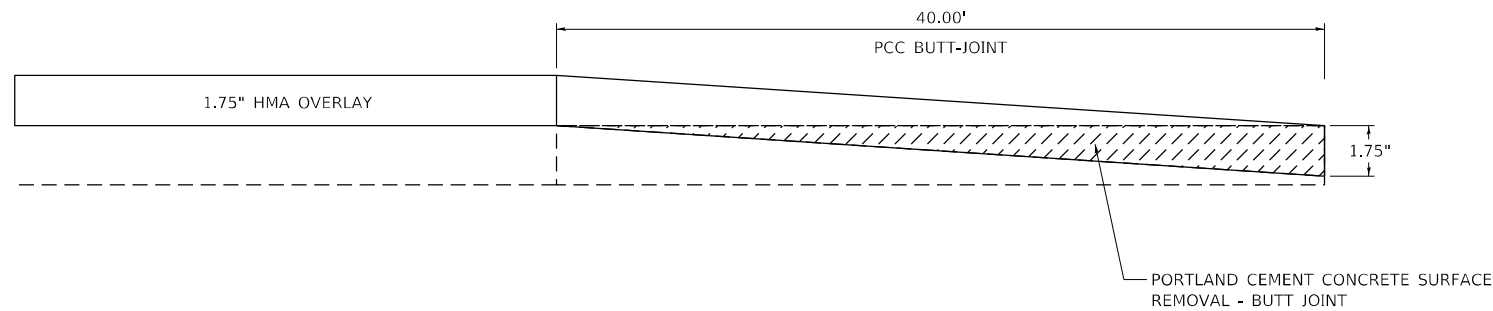
**EXISTING TYPICAL SECTION – OGDEN AVENUE**

LOOKING EAST  
 STA 11+03.48 TO STA 14+12.64  
 STA 21+88.45 TO STA 26+79.97



**PROPOSED TYPICAL SECTION – OGDEN AVENUE**

LOOKING EAST  
 STA 11+03.48 TO STA 14+12.64  
 STA 21+88.45 TO STA 26+79.97



**PAVEMENT TRANSITION DETAIL**

STA 11+03.48 TO STA 12+25.89  
 STA 25+10.46 TO STA 26+79.97

**NOTE:**  
 SEE IDOT DISTRICT 1 DETAIL BD-32 FOR PCC BUTT JOINT DETAIL

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS	
HMA OVERLAY & PCC BUTT JOINT		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E" N70; 1.75"	4% @ 70 Gyr.	QC/QA
CLASS D PATCHES, 10 INCH (SPECIAL)		
HMA BINDER IL-19.0; 8"	4% @ 70 Gyr.	QC/QA
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E" N70; 2"	4% @ 70 Gyr.	QC/QA
CLASS D PATCHES, 10 INCH		
HMA BINDER IL-19.0; 10"	4% @ 70 Gyr.	QC/QA
QMP Designations: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PF)		
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MOISTURE QUANTITIES IS 112 LBS/SQ YD/IN.		
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 SPECIFICATIONS.		

USER NAME = Roadway	DESIGNED - EPS	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - AMH	REVISED -
PLOT DATE = 11/18/2024	CHECKED - EPS	REVISED -
	DATE - 11/18/2024	REVISED -

<b>US 34 (OGDEN AVE) OVER IHB RAILROAD</b>			
<b>TYPICAL SECTIONS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	9
			CONTRACT NO. 62R99	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

**NOTES:**

1. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN OR PEDESTRIAN SIDEWALK WITH THE PLACEMENT OF TEMPORARY CONSTRUCTION SIGNING. THE CONTRACTOR MUST MAINTAIN A 4-FOOT MINIMUM CLEAR WIDTH ON ALL SIDEWALKS WHEN INSTALLING CONSTRUCTION SIGNS ON OR NEAR SIDEWALKS THAT ARE OPEN TO THE PUBLIC.
2. DRUMS AND BARRICADES ALONG ARTERIAL ROADWAYS SHALL BE PLACED AS FOLLOWS: 25' C-C ALONG TANGENTS, 20' C-C ALONG TAPERS, 10' C-C ALONG CURVES/RADII.
3. ALL EXISTING PAVEMENT MARKING IN CONFLICT WITH THE PAVEMENT MARKING TAPE, TYPE IV USED FOR STAGING SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AS "PAVEMENT MARKING REMOVAL - WATER BLASTING".
4. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
5. REMOVE RAISED REFLECTIVE PAVEMENT MARKERS IN AREA OF OVERLAY. REMOVE REFLECTORS IN LOCATIONS THAT CONFLICT WITH THE MAINTENANCE OF TRAFFIC.

**STAGING DESCRIPTION**

**PRE-STAGE**

CONSTRUCTION:  
 CONSTRUCT CLASS D PATCH.  
 MAINTENANCE OF TRAFFIC:  
 MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES USING STANDARD 701611.

**STAGE 1**

CONSTRUCTION:  
 THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH STAGE 1 ONLY.  
 PLACE TEMPORARY PAVEMENT MARKINGS, TEMPORARY CONCRETE BARRIER WALL AND IMPACT ATTENUATORS AS SHOWN IN THE PLANS.  
 CONSTRUCT THE PROPOSED BRIDGE IMPROVEMENTS WITH THE WORK ZONE SHOWN ON THE PLANS.  
 MAINTENANCE OF TRAFFIC:  
 AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS.  
 PLACE PEDESTRIAN DETOUR AS SHOWN IN THE PLANS.

**STAGE 2**

CONSTRUCTION:  
 THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH STAGE 2 ONLY.  
 PLACE TEMPORARY PAVEMENT MARKINGS, TEMPORARY CONCRETE BARRIER WALL AND IMPACT ATTENUATORS AS SHOWN IN THE PLANS.  
 CONSTRUCT THE PROPOSED BRIDGE IMPROVEMENTS WITH THE WORK ZONE SHOWN ON THE PLANS.  
 MAINTENANCE OF TRAFFIC:  
 AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS.

**STAGE 3**

CONSTRUCTION:  
 OVERLAY EXISTING PAVEMENT AS SHOWN IN THE PLANS.  
 MAINTENANCE OF TRAFFIC:  
 MAINTAIN ONE LANE IN EACH DIRECTION USING STANDARD 701611.



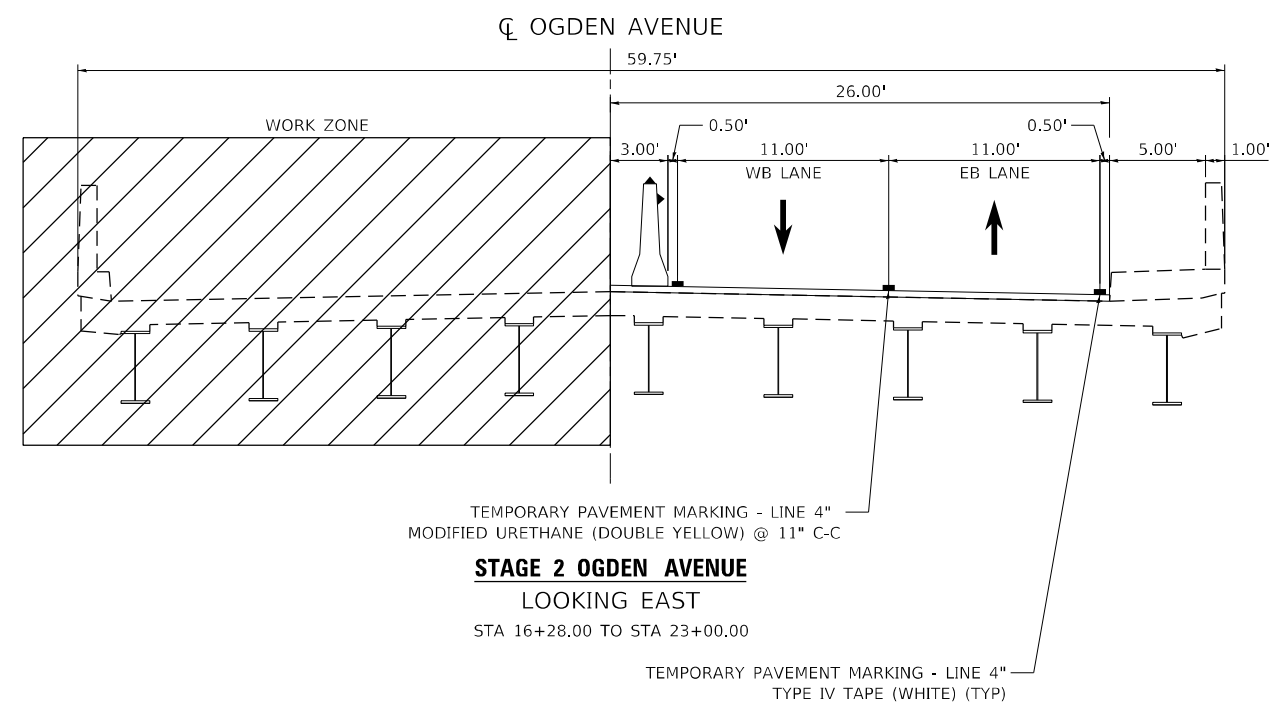
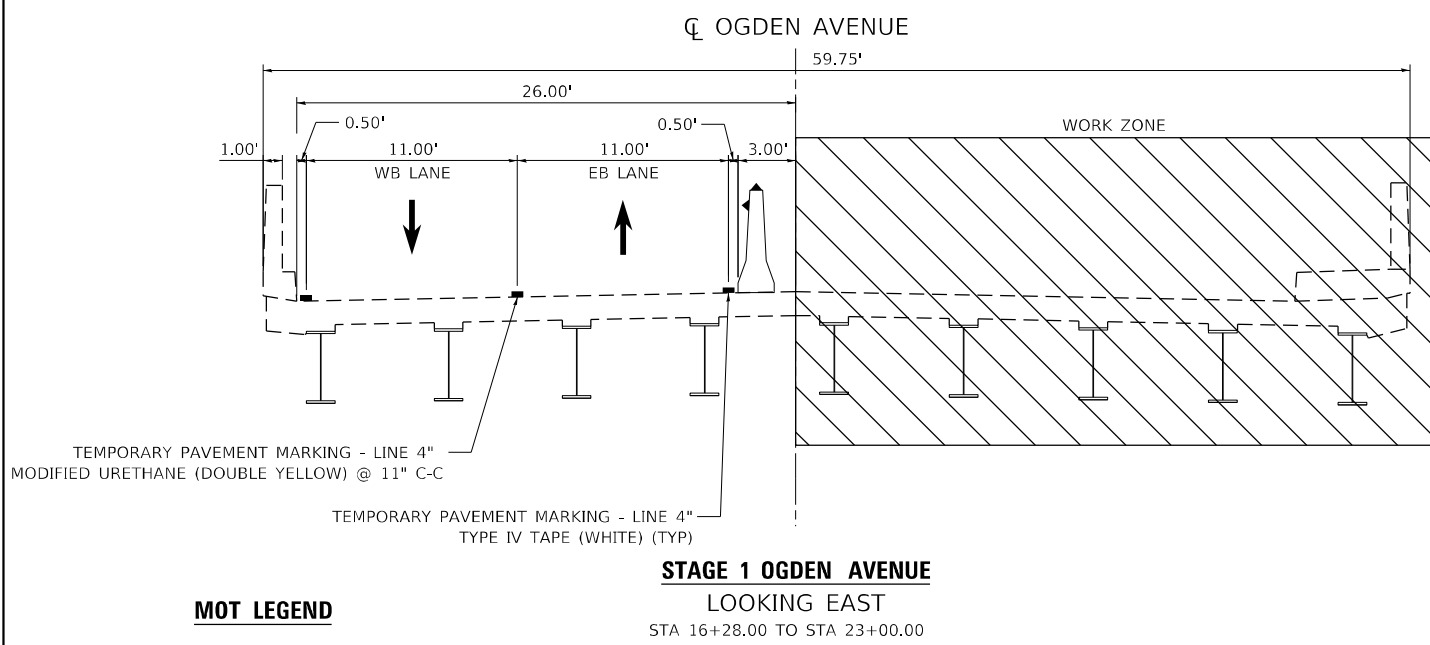
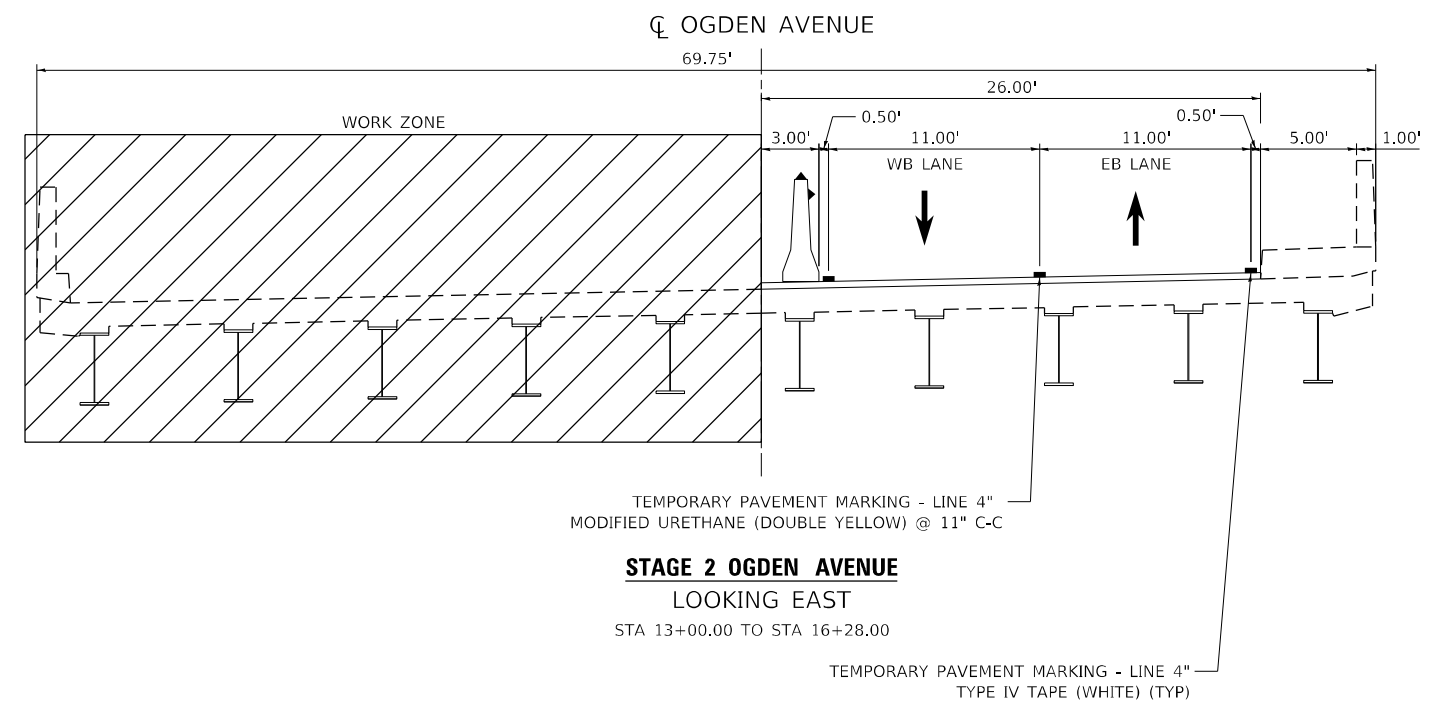
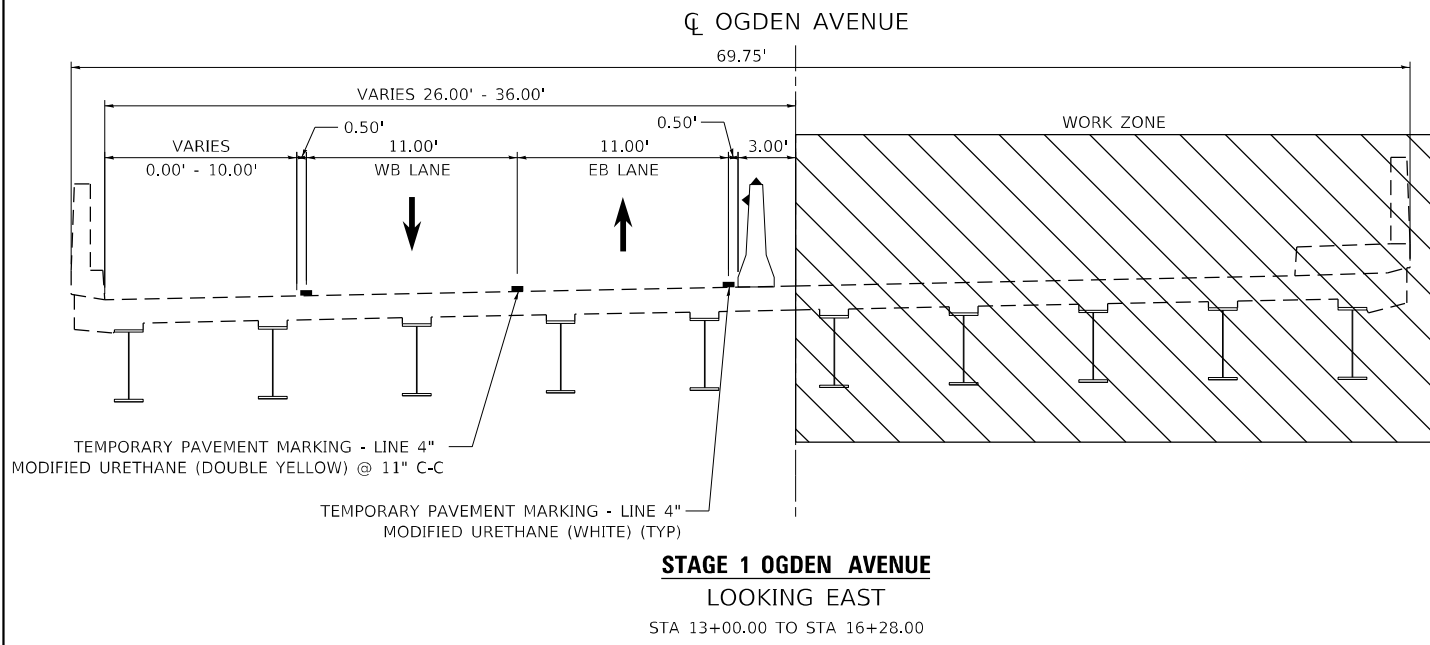
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DRAWN - AMH	CHECKED - EPS	REVISED -
PLOT SCALE = 10,0000 * / in.	DATE - 10/4/2024	REVISED -
PLOT DATE = 10/4/2024		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

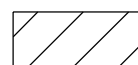
**US 34 (OGDEN AVE) OVER IHB RAILROAD  
 MAINTENANCE OF TRAFFIC – GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 10
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62R99				



**MOT LEGEND**



WORK ZONE



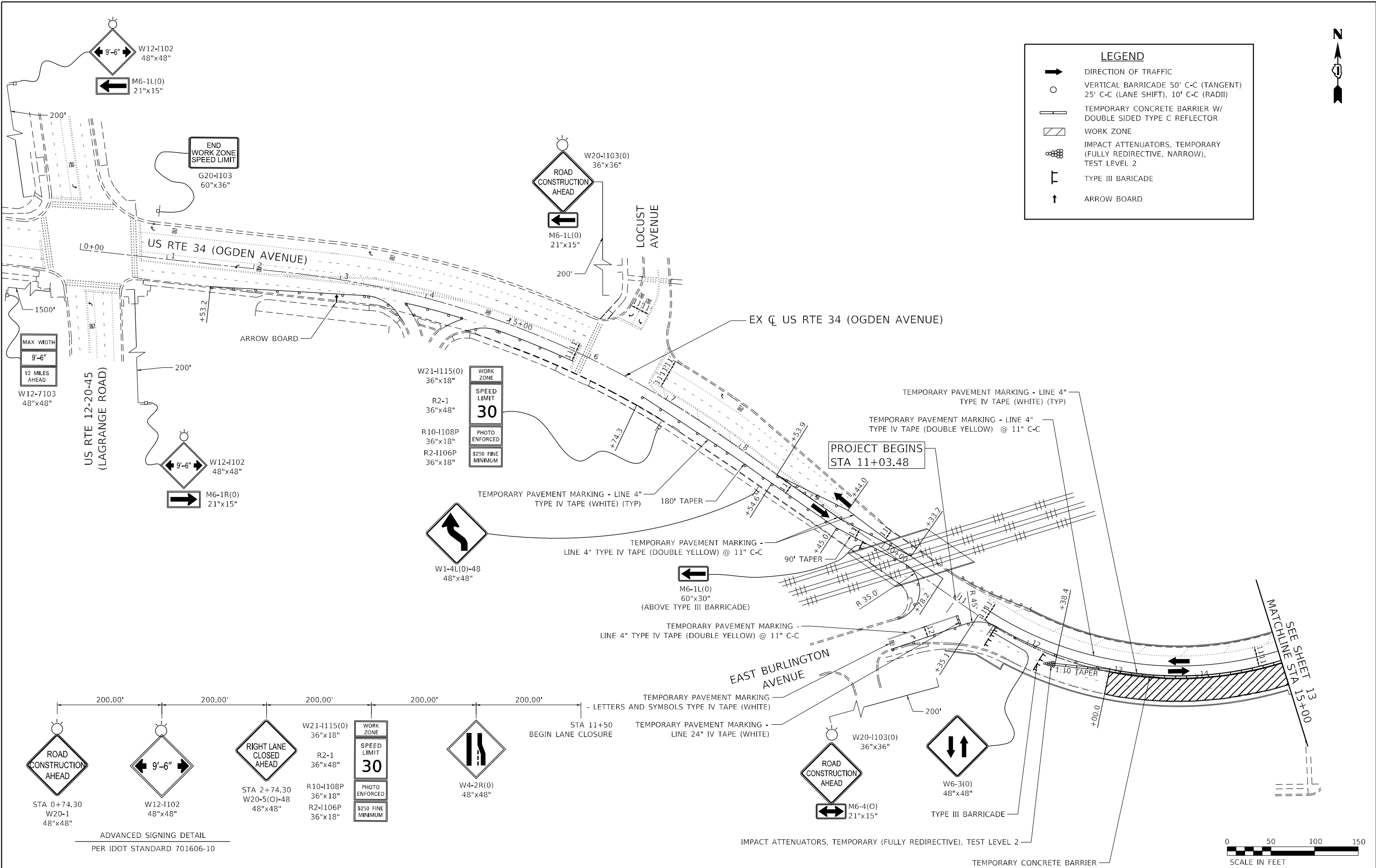
DIRECTION OF TRAFFIC



TEMPORARY CONCRETE BARRIER WALL W/ MONO-DIRECTIONAL CRYSTAL, TYPE C REFLECTORS PER STANDARDS 704001 AND 782006



LEGEND	
	DIRECTION OF TRAFFIC
	VERTICAL BARRICADE 50' C-C (TANGENT) 25' C-C (LANE SHIFT), 10' C-C (RADII)
	TEMPORARY CONCRETE BARRIER W/ DOUBLE SIDED TYPE C REFLECTOR
	WORK ZONE
	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2
	TYPE III BARRICADE
	ARROW BOARD



US RTE 12-20-45  
(LAGRANGE ROAD)

LOCUST AVENUE

EAST BURLINGTON AVENUE

ADVANCED SIGNING DETAIL  
PER IDOT STANDARD 701606-10



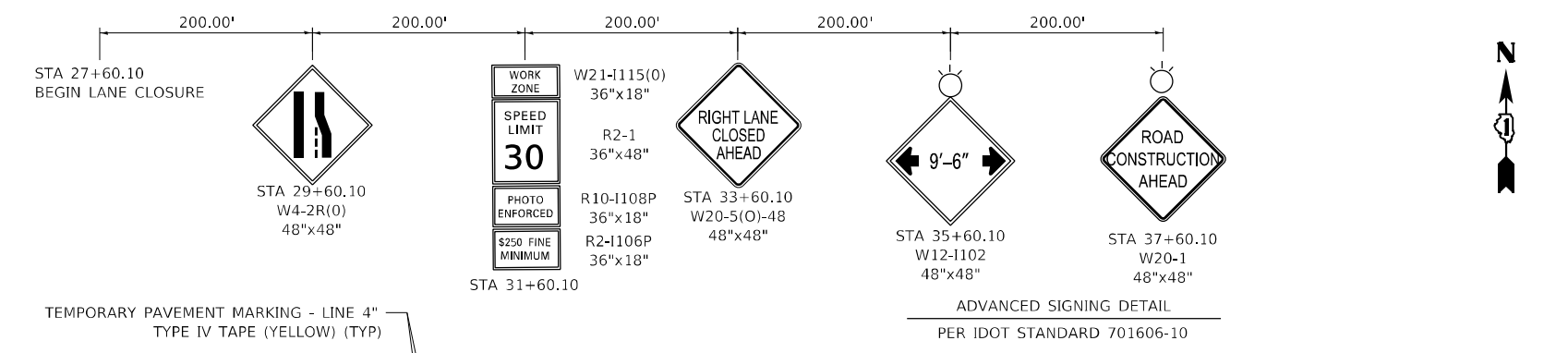
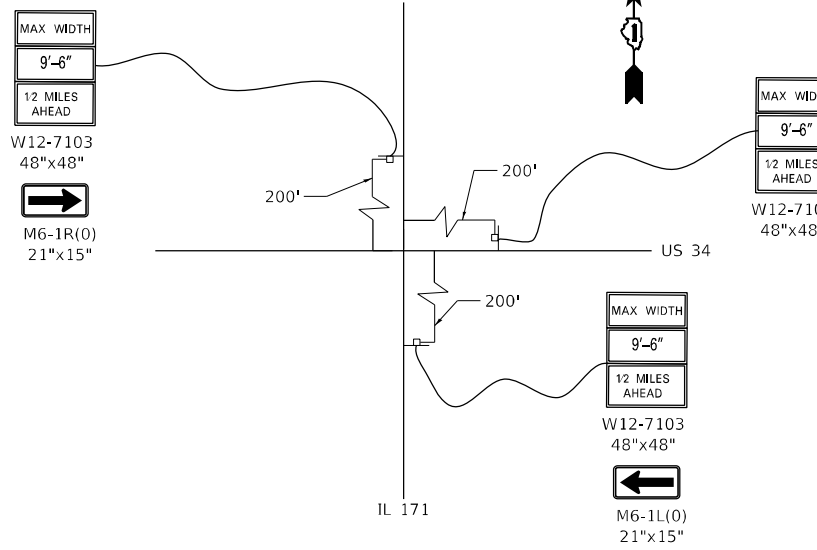
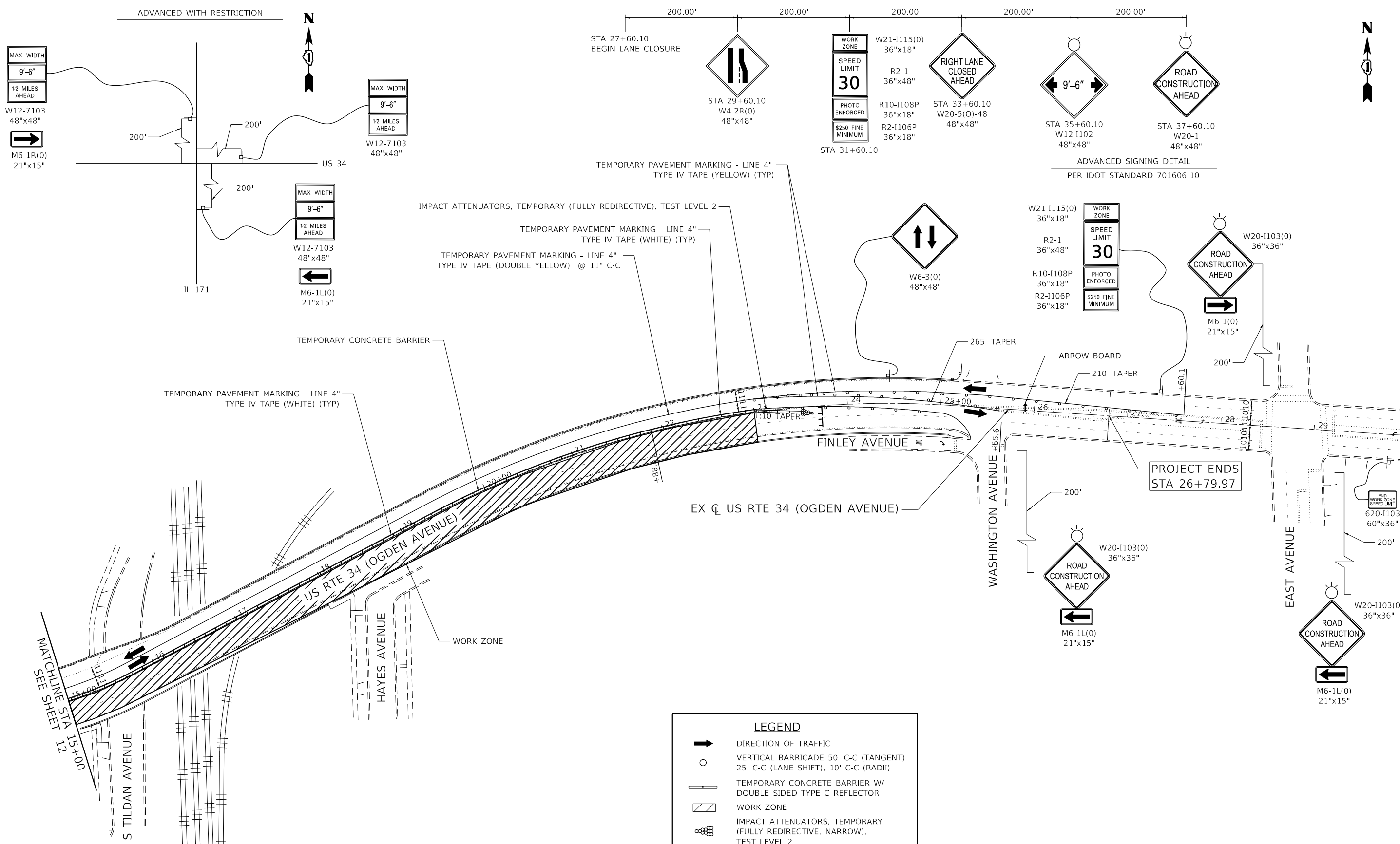
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PLOT SCALE = 100,0000' / in.	DRAWN - AMH	REVISED -
PLOT DATE = 11/18/2024	CHECKED - EPS	REVISED -
	DATE - 11/18/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 34 (OGDEN AVE) OVER IHB RAILROAD  
MAINTENANCE OF TRAFFIC - STAGE 1**

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

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 12
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



TEMPORARY PAVEMENT MARKING - LINE 4" TYPE IV TAPE (YELLOW) (TYP)

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 2

TEMPORARY PAVEMENT MARKING - LINE 4" TYPE IV TAPE (WHITE) (TYP)

TEMPORARY PAVEMENT MARKING - LINE 4" TYPE IV TAPE (DOUBLE YELLOW) @ 11" C-C

LEGEND	
	DIRECTION OF TRAFFIC
	VERTICAL BARRICADE 50' C-C (TANGENT) 25' C-C (LANE SHIFT), 10' C-C (RADII)
	TEMPORARY CONCRETE BARRIER W/ DOUBLE SIDED TYPE C REFLECTOR
	WORK ZONE
	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2
	TYPE III BARRICADE
	ARROW BOARD

**NOTE:**  
EXISTING STAIRS AT TILDAN AVENUE AND HAYES AVENUE  
WILL BE CLOSED PER 701801 DURING THIS STAGE OF  
CONSTRUCTION TO ALLOW FOR STRUCTURAL REPAIRS.  
PEDESTRIAN ACCESS WILL NOT BE ALLOWED.



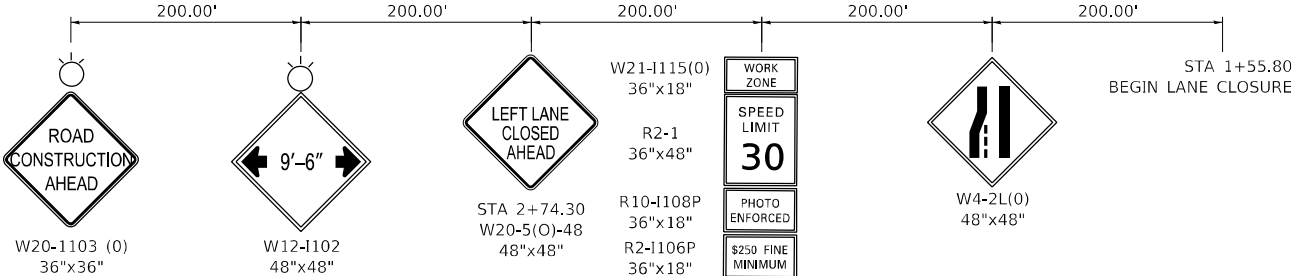
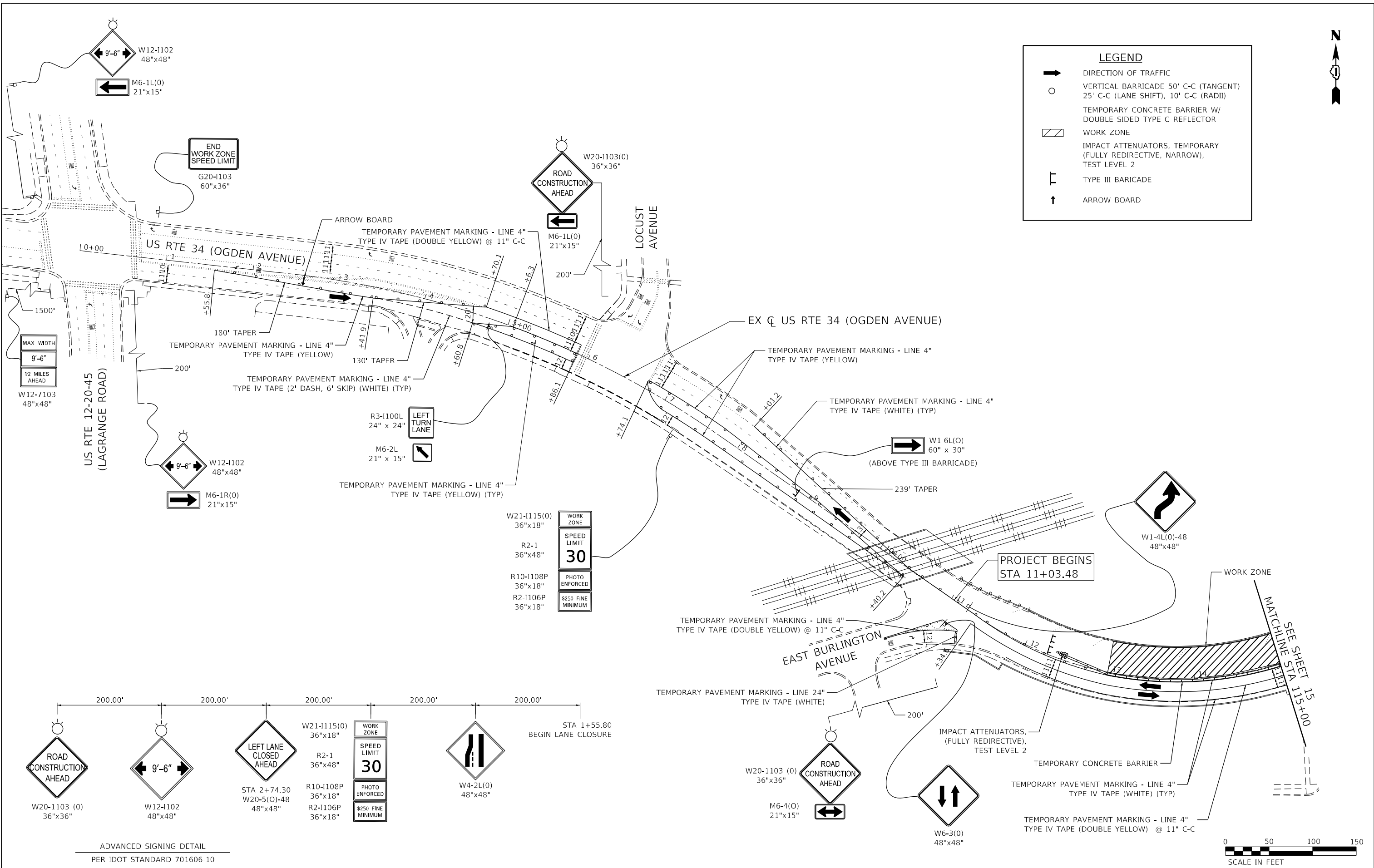
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PLOT SCALE = 100,0000' / in.	DRAWN - AMH	REVISED -
PLOT DATE = 11/18/2024	CHECKED - EPS	REVISED -
	DATE - 11/18/2024	REVISED -

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 13
CONTRACT NO. 62R99				ILLINOIS FED. AID PROJECT



**LEGEND**

- ➔ DIRECTION OF TRAFFIC
- VERTICAL BARRICADE 50' C-C (TANGENT)  
25' C-C (LANE SHIFT), 10' C-C (RADII)
- ▨ TEMPORARY CONCRETE BARRIER W/  
DOUBLE SIDED TYPE C REFLECTOR
- ▨ WORK ZONE
- ▨ IMPACT ATTENUATORS, TEMPORARY  
(FULLY REDIRECTIVE, NARROW),  
TEST LEVEL 2
- ⌈ TYPE III BARRICADE
- ↑ ARROW BOARD



USER NAME = Roadway	DESIGNED - EPS	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AMH	REVISED -
PLOT DATE = 11/18/2024	CHECKED - EPS	REVISED -
	DATE - 11/18/2024	REVISED -

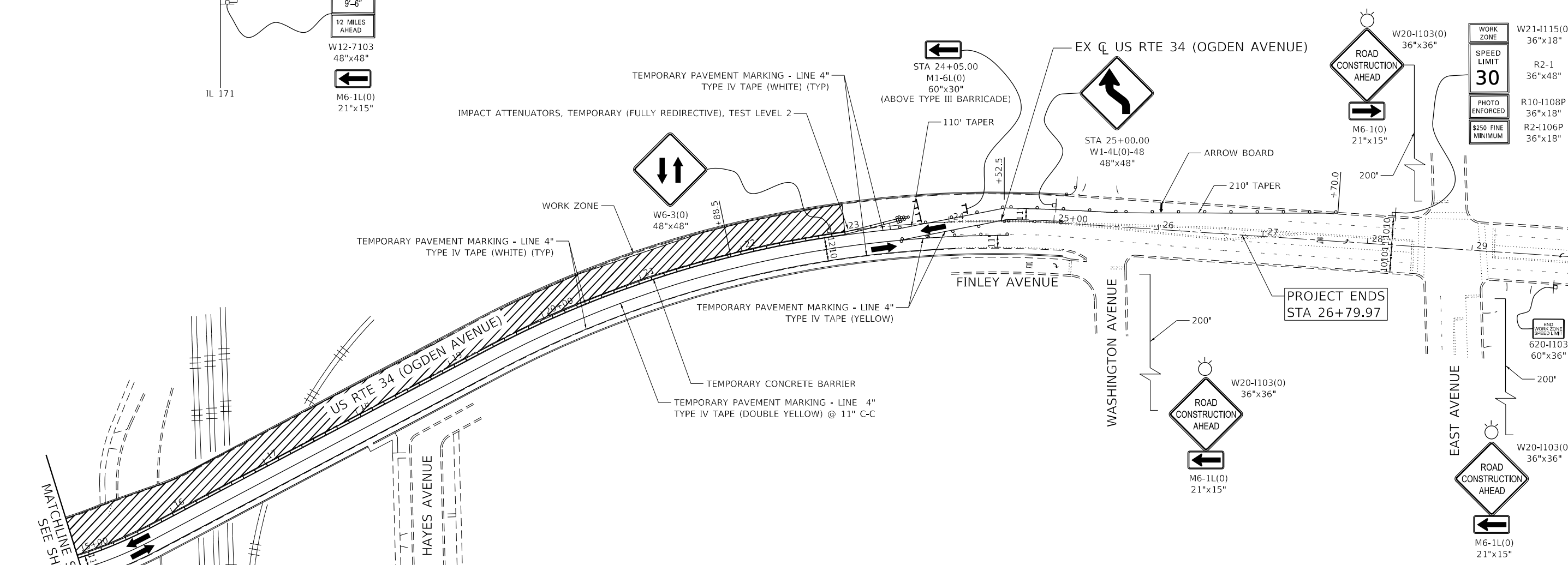
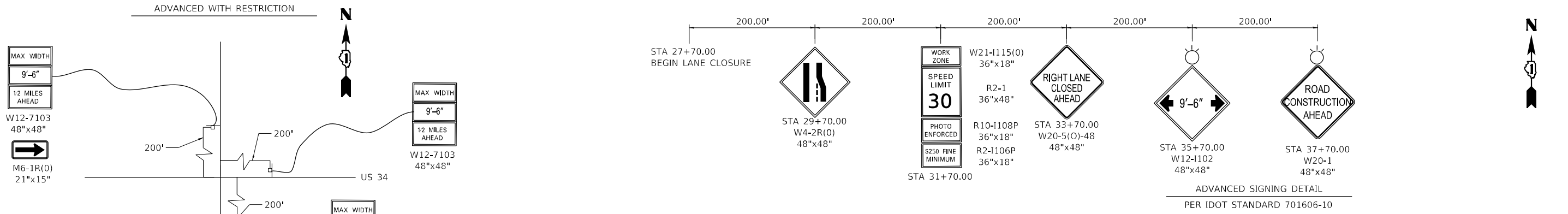
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 34 (OGDEN AVE) OVER IHB RAILROAD  
MAINTENANCE OF TRAFFIC - STAGE 2**

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

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 14
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				





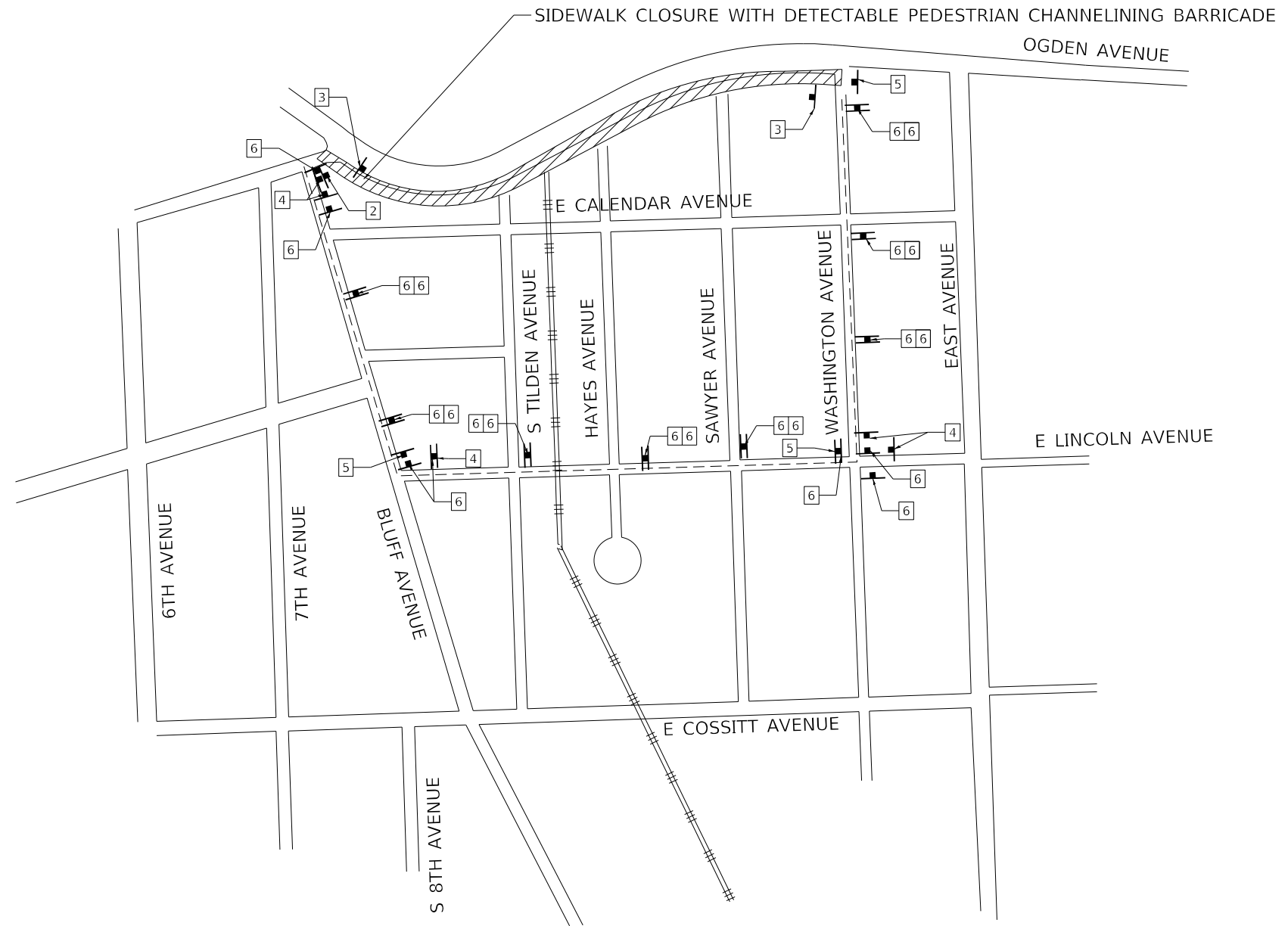
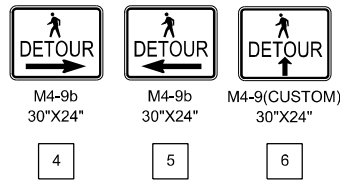
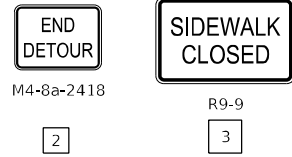
**LEGEND**

- DIRECTION OF TRAFFIC
- VERTICAL BARRICADE 50' C-C (TANGENT)  
25' C-C (LANE SHIFT), 10' C-C (RADII)
- TEMPORARY CONCRETE BARRIER W/  
DOUBLE SIDED TYPE C REFLECTOR
- WORK ZONE
- IMPACT ATTENUATORS, TEMPORARY  
(FULLY REDIRECTIVE, NARROW),  
TEST LEVEL 2
- TYPE III BARRICADE
- ARROW BOARD



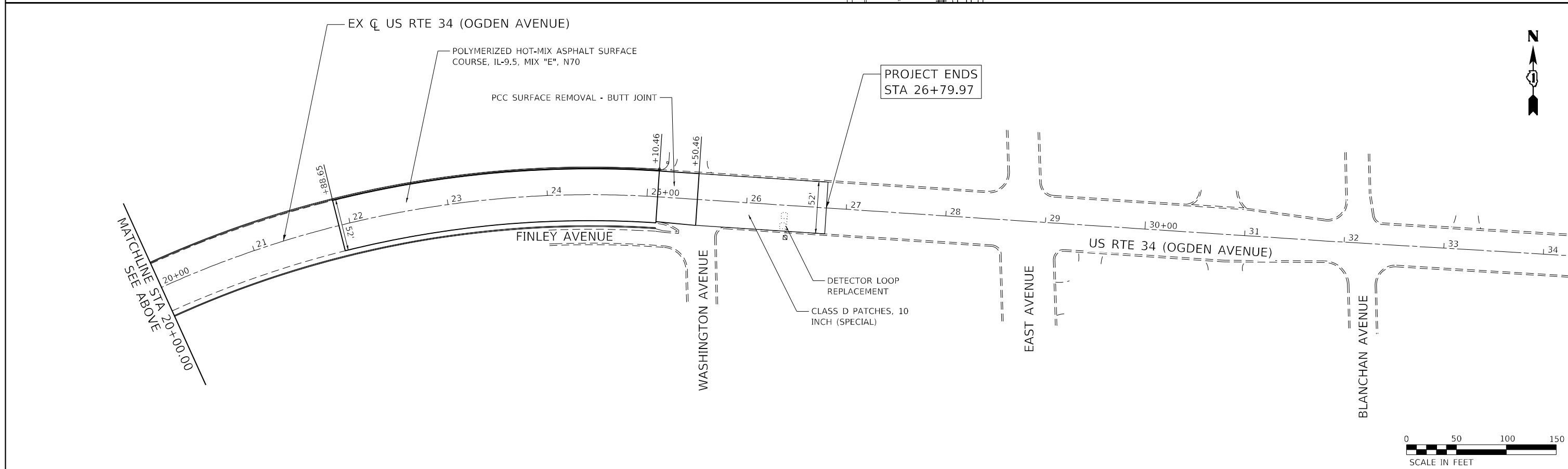
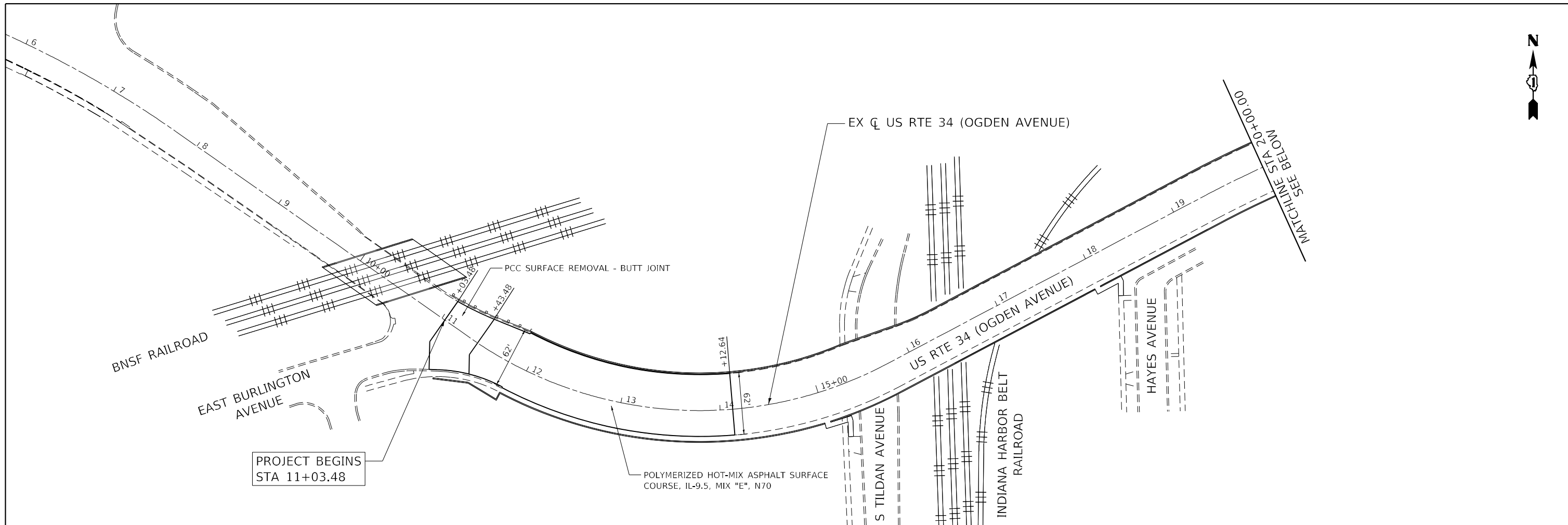
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CHECKED - EPS	REVISOR -	
DATE - 11/18/2024	REVISOR -	

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 15
CONTRACT NO. 62R99			ILLINOIS FED. AID PROJECT	

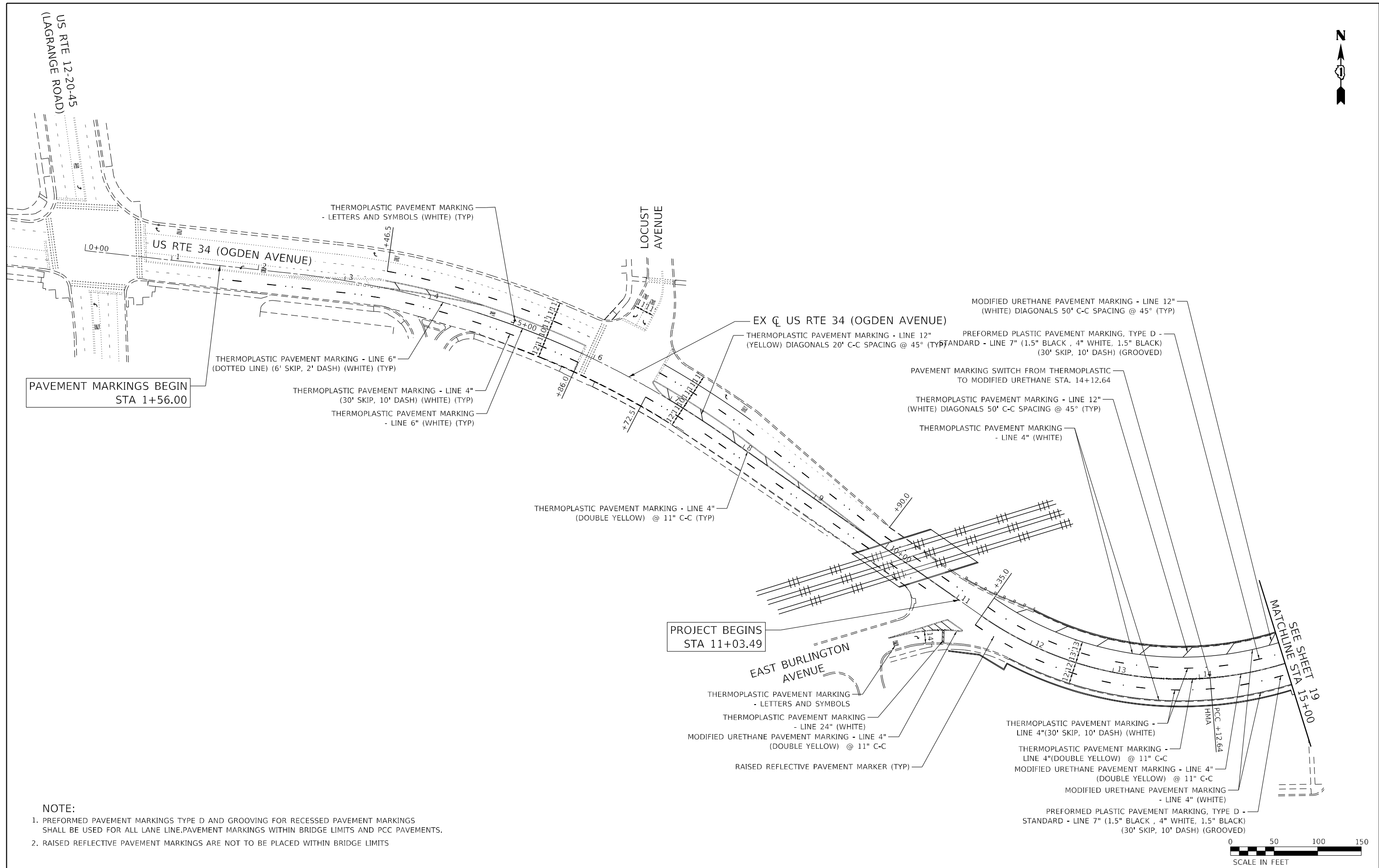


**LEGEND:**

	PROPOSED PEDESTRIAN DETOUR ROUTE
	DETOUR SIGN POST-MOUNTED PER ARTICLE 701.14 AND HIGHWAY STANDARD 701901
	SIDEWALK CLOSED



 8725 W. Higgins Rd., Ste 600, Chicago, IL 60631 P 773.775.4009   www.ciorba.com	USER NAME = Roadway PLOT SCALE = 100,0000' / in. PLOT DATE = 11/18/2024	DESIGNED - EPS DRAWN - AMH CHECKED - EPS DATE - 11/18/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 34 (OGDEN AVE) OVER IHB RAILROAD</b> <b>PROPOSED PLAN</b>	F.A.P. RTE. 311 SECTION FAP 0311 22 BJ COUNTY COOK TOTAL SHEETS 83 SHEET NO. 17 CONTRACT NO. 62R99	ILLINOIS FED. AID PROJECT
	SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.						



PAVEMENT MARKINGS BEGIN  
STA 1+56.00

PROJECT BEGINS  
STA 11+03.49

MATCHLINE STA 15+00  
SEE SHEET 19

- NOTE:**
1. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE.PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.
  2. RAISED REFLECTIVE PAVEMENT MARKINGS ARE NOT TO BE PLACED WITHIN BRIDGE LIMITS



USER NAME = Roadway	DESIGNED - EPS	REVISED -
DRAWN - AMH	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 10/4/2024	DATE - 10/4/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

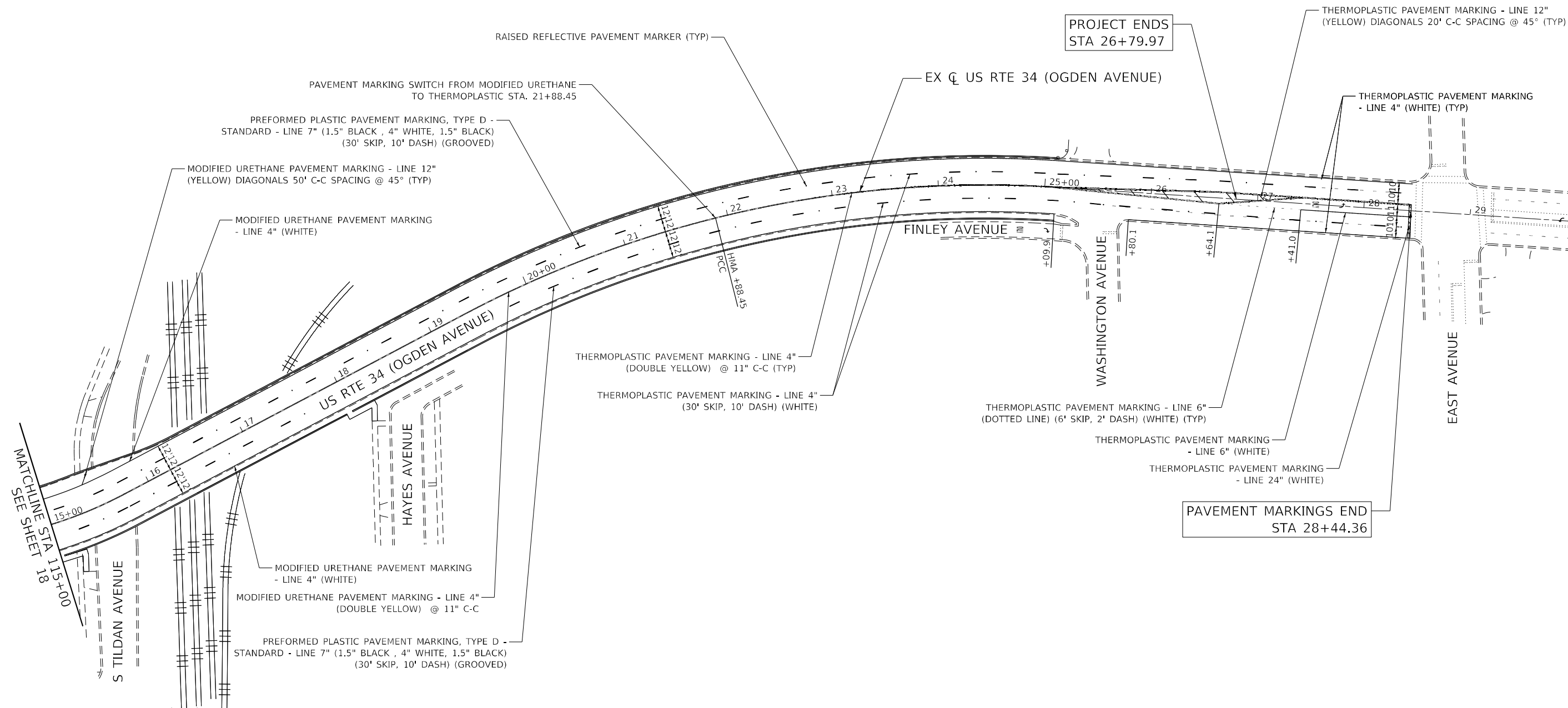
<b>US 34 (OGDEN AVE) OVER IHB RAILROAD PAVEMENT MARKING PLAN</b>			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 18
			CONTRACT NO. 62R99	
ILLINOIS FED. AID PROJECT				



**NOTE:**

1. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE. PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.
2. RAISED REFLECTIVE PAVEMENT MARKINGS ARE NOT TO BE PLACED WITHIN BRIDGE LIMITS



USER NAME = Roadway	DESIGNED - EPS	REVISED -
	DRAWN - AMH	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 10/4/2024	DATE - 10/4/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 34 (OGDEN AVE) OVER IHB RAILROAD  
PAVEMENT MARKING PLAN**

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

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 19
			CONTRACT NO. 62R99	
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

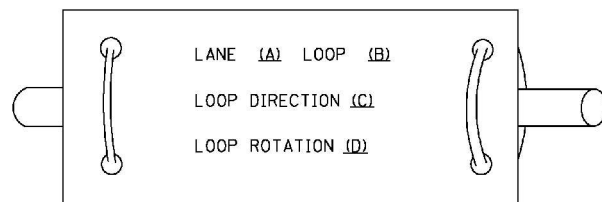
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								



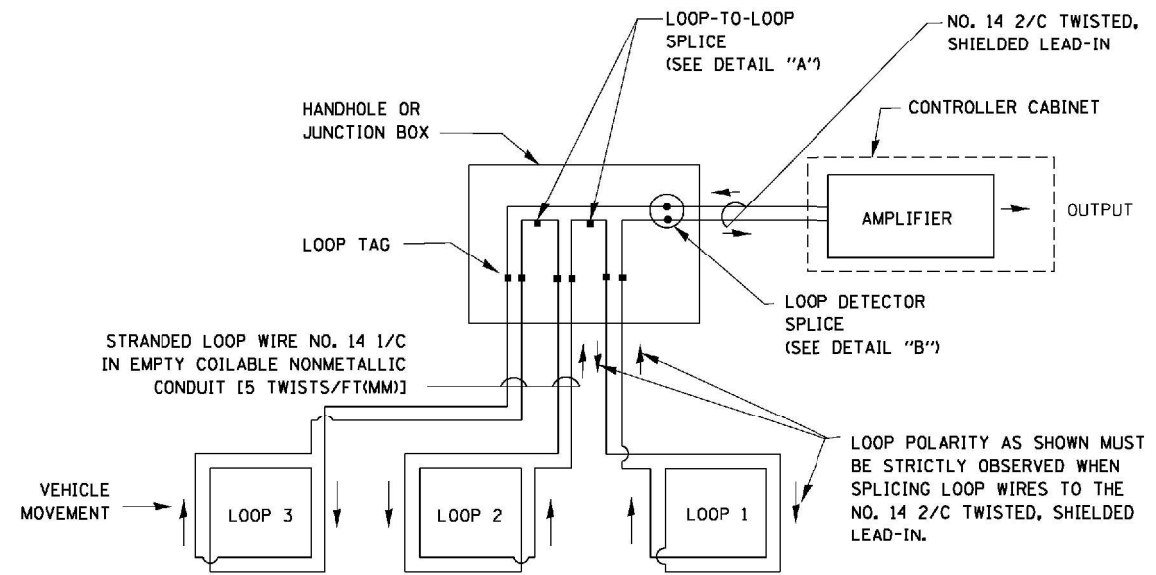
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

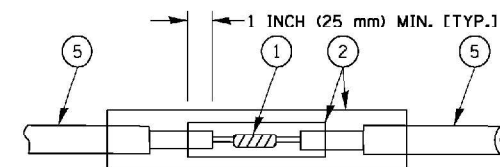


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

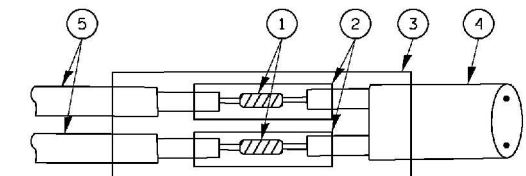


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

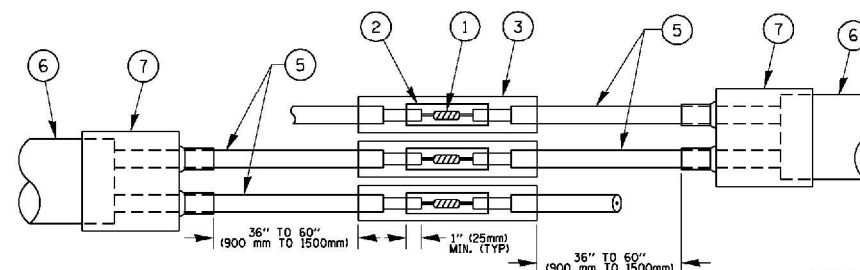


DETAIL "A"  
LOOP-TO-LOOP SPLICE

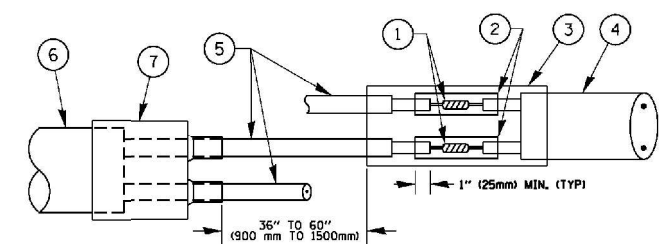


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

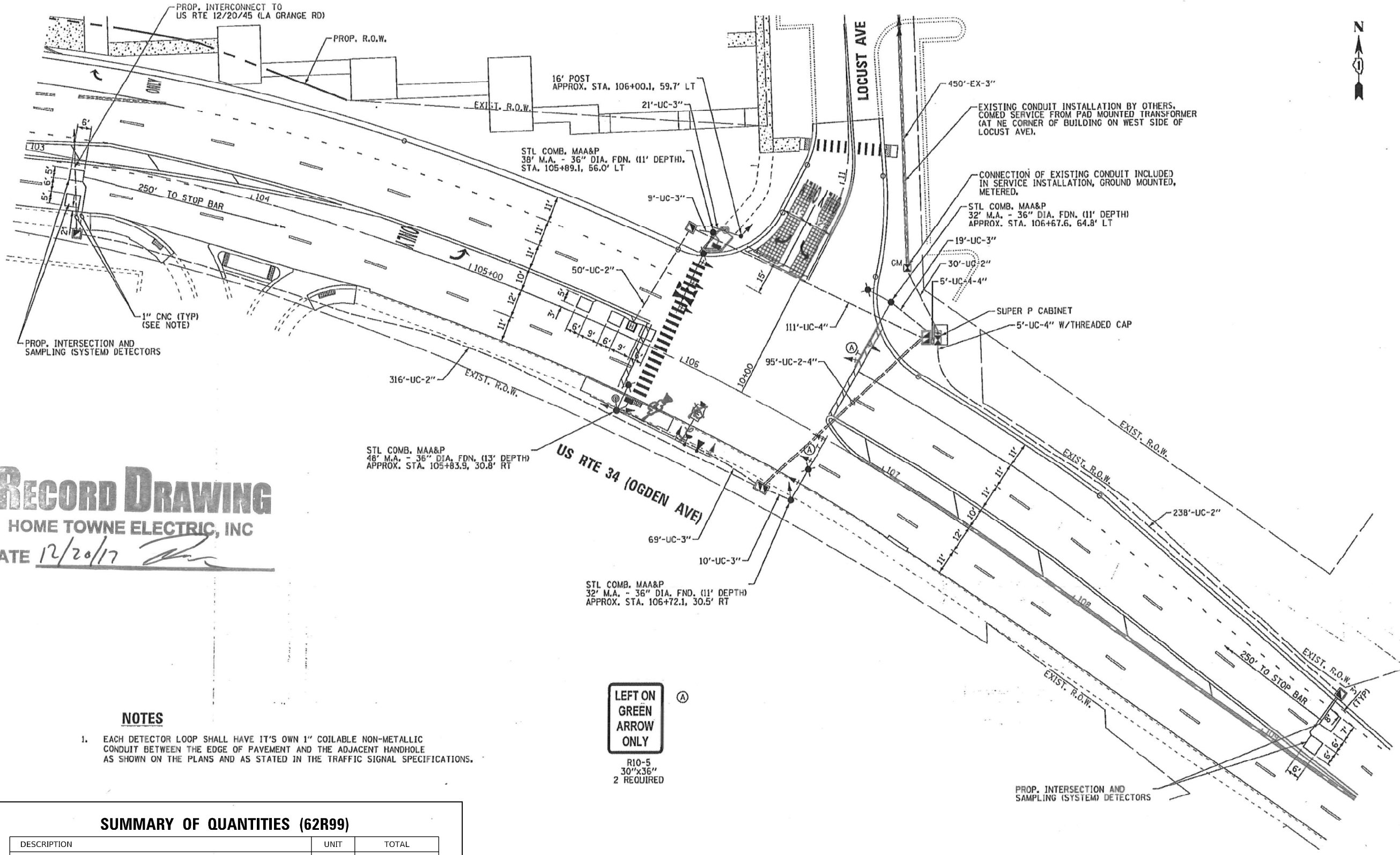
**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 21
ca:\p\work\pwi\dots\Foatemj\00108315\ts05.dgn	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. 62R99		
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

**RECORD DRAWING**  
 HOME TOWNE ELECTRIC, INC  
 DATE 12/20/17



**NOTES**

- EACH DETECTOR LOOP SHALL HAVE IT'S OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

**SUMMARY OF QUANTITIES (62R99)**

DESCRIPTION	UNIT	TOTAL
DETECTOR LOOP REPLACEMENT	FOOT	71
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**BAXTER & WOODMAN**  
 Consulting Engineers

DESIGNED - RWL	REVISED - PER IDOT 11-10-16
DRAWN - LKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-gh1-TS-Sigs2.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 1)  
 US RTE 34 (OGDEN AVE) AND LOCUST AVE

F.A.P. RTE. 330	SECTION 91Y-N-2	COUNTY COOK	TOTAL SHEETS 128	SHEET NO. 69
CONTRACT NO. 62A47				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT C-91-138-12				

**CiorbaGroup**  
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631  
 P 773.775.4009 | www.ciorba.com

USER NAME = Electrical	DESIGNED - DTJ	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AM	REVISED -
PLOT DATE = 10/4/2024	CHECKED - JMV	REVISED -
	DATE - 10/4/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

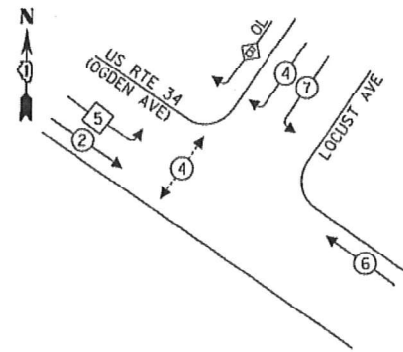
SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.
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EXISTING TRAFFIC SIGNAL PLAN (RECORD DRAWING)  
 US RTE 34 (OGDEN AVE) AND LOCUST AVE

F.A.P. RTE. 311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 22
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 014-00121 - EXPIRES 4/30/2017  
 2310 RD  
 1/7/2016 2:57:59 PM  
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 TS SHT NO. 18

**PROPOSED CONTROLLER SEQUENCE**



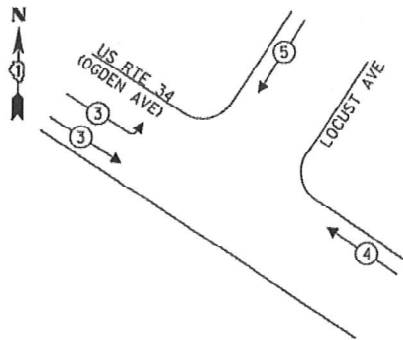
**LEGEND:**

- ←\*← PROTECTED PHASE
- ←\*... PROTECTED/PERMITTED PHASE
- ←\*→ PEDESTRIAN PHASE
- ←\* OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROP TRACER CABLE

PROP. INTERCONNECT TO US RTE. 12/20/45 (LA GRANGE RD)

ELECTRIC UTILITY ENCLOSURE

GM

SUPER P CABINET

PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	10	10	10	10.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	140	50	280.0
TOTAL =				597.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DARRYL BELL  
PHONE: (630) 995-0410  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

**RECORD DRAWING**  
HOME TOWNE ELECTRIC, INC  
DATE 12/20/17

**CABLE PLAN**  
(NOT TO SCALE)

TS 13912  
EAGLE 5M

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US RTE 34 (OGDEN AVE) AND LOCUST AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	91Y-N-2	COOK	128	70
CONTRACT NO. 62A47				

SCALE: NONE SHEET OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-138-12

**BAXTER & WOODMAN**  
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 11-02-16	FILE - D162A47-TS-Cable2.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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 STATE OF ILLINOIS PROFESSIONAL ENGINEER  
 LICENSE NO. 184-00121 - EXPIRES 4/30/2017  
 11/27/2016 9:55:46 AM  
 TS SHT NO. 19  
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**CiorbaGroup**  
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631  
P 773.775.4009 | www.ciorba.com

USER NAME = Electrical	DESIGNED - DTJ	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AM	REVISED -
PLOT DATE = 10/4/2024	CHECKED - JMV	REVISED -
	DATE - 10/4/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (RECORD DRAWING)  
US RTE 34 (OGDEN AVE) AND LOCUST AVE  
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	23
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT



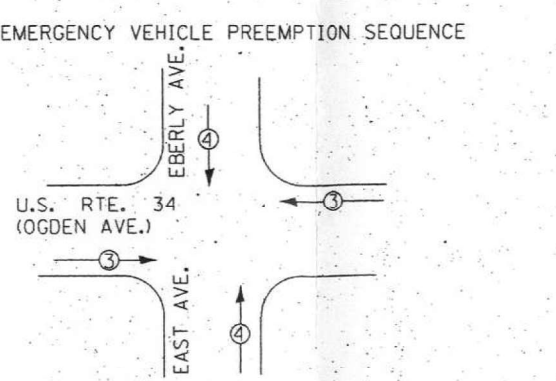
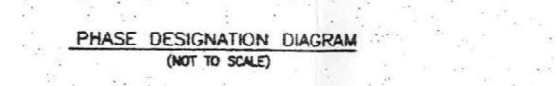
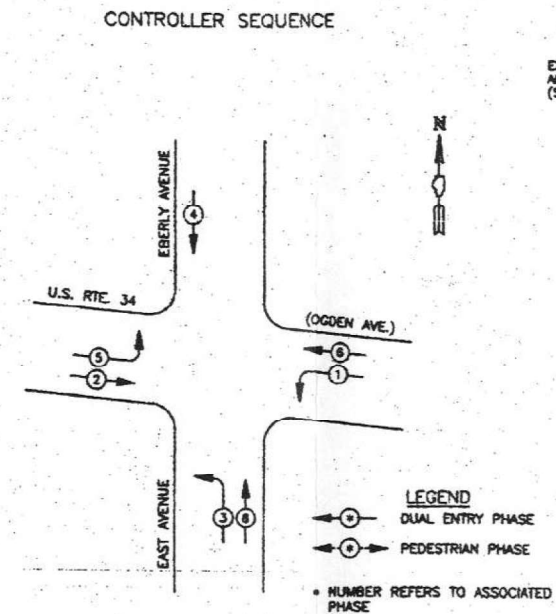


8-7-09  
 \* L.E.D. RETROFIT PROGRAM  
 ALL SIGNAL HEADS ARE L.E.D.  
 UPS SYSTEM

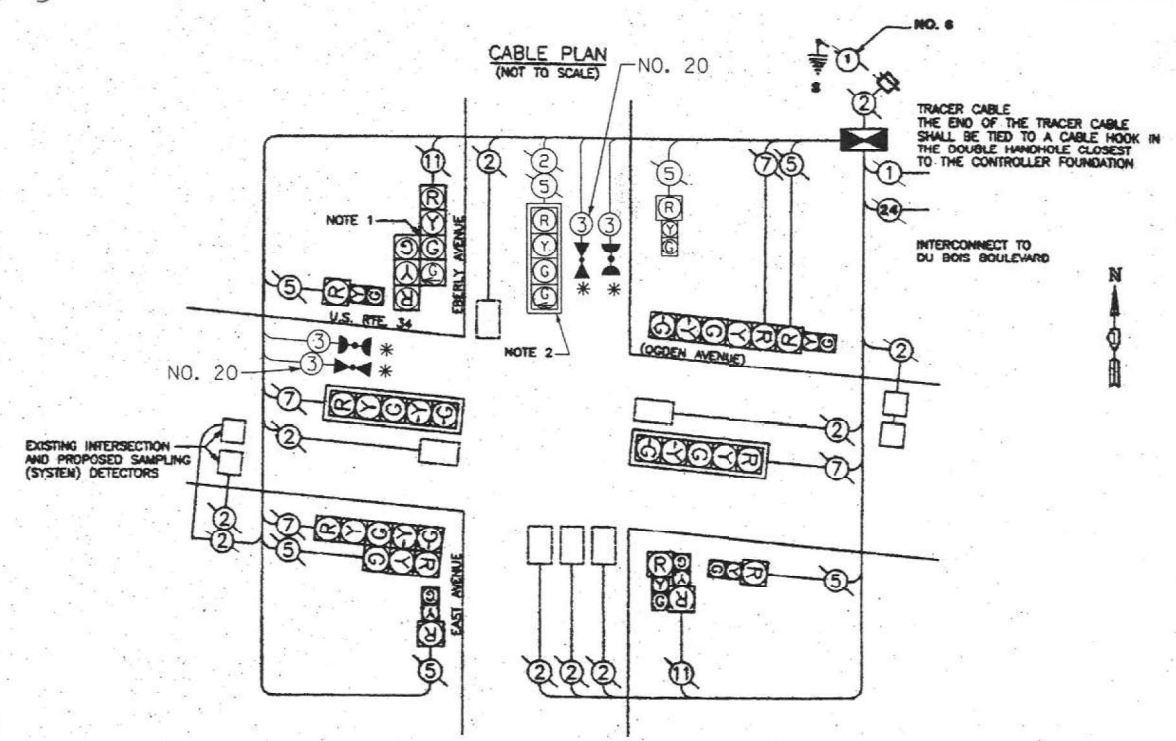
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-00079-01-TL		COOK	109	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# RECORD DRAWING

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↑



\* NOTES:  
 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	06/21/02

VILLAGE OF BROOKFIELD  
 LOCATION NO. 9  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 U.S. RTE. 34 (OGDEN AVE.) AND  
 EAST AVENUE / EBERLY AVENUE.  
 EMERGENCY VEHICLE PREEMPTION  
 CABLE PLAN, CONTROLLER SEQUENCE  
 & SCHEDULE OF QUANTITIES  
 SCALE: DATE: 3-24-98  
 DRAWN BY: CJS  
 DESIGNED BY: EGT  
 CHECKED BY: JPH

\* PLANS MODIFIED BY V3 INFRASTRUCTURE SERVICES, LTD.

USER NAME = Electrical	DESIGNED - DTJ	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AM	REVISED -
PLOT DATE = 10/4/2024	CHECKED - JMV	REVISED -
	DATE - 10/4/2024	REVISED -

Existing Structure: S.N. 016-0225 was originally built in 1930 and widened in 1985. Expansion joint and substructure repairs were performed in 2019. The structure has a back-to-back abutment length of 775'-9 $\frac{7}{8}$ " and an out-to-out deck width that varies from 59'-9" to 69'-9". The superstructure consists of 7 $\frac{1}{2}$ " thick reinforced concrete deck supported on 12 span continuous steel beams of span lengths 68'-6 $\frac{7}{8}$ ", 69'-5 $\frac{3}{4}$ ", 53'-3 $\frac{1}{2}$ ", 66'-5 $\frac{1}{8}$ ", 59'-9 $\frac{1}{4}$ ", 45'-10 $\frac{3}{8}$ ", 76'-10 $\frac{3}{4}$ ", 76'-11 $\frac{1}{8}$ ", 63'-10 $\frac{5}{8}$ ", 63'-9 $\frac{7}{8}$ ", 63'-9 $\frac{7}{8}$ ", and 62'-0 $\frac{3}{4}$ ". The substructure consists of reinforced concrete abutments and multi-column piers on spread footings.

**DESIGN SPECIFICATION**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**RECONSTRUCTION 2019**

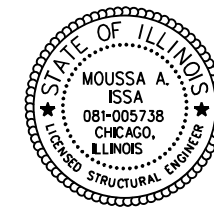
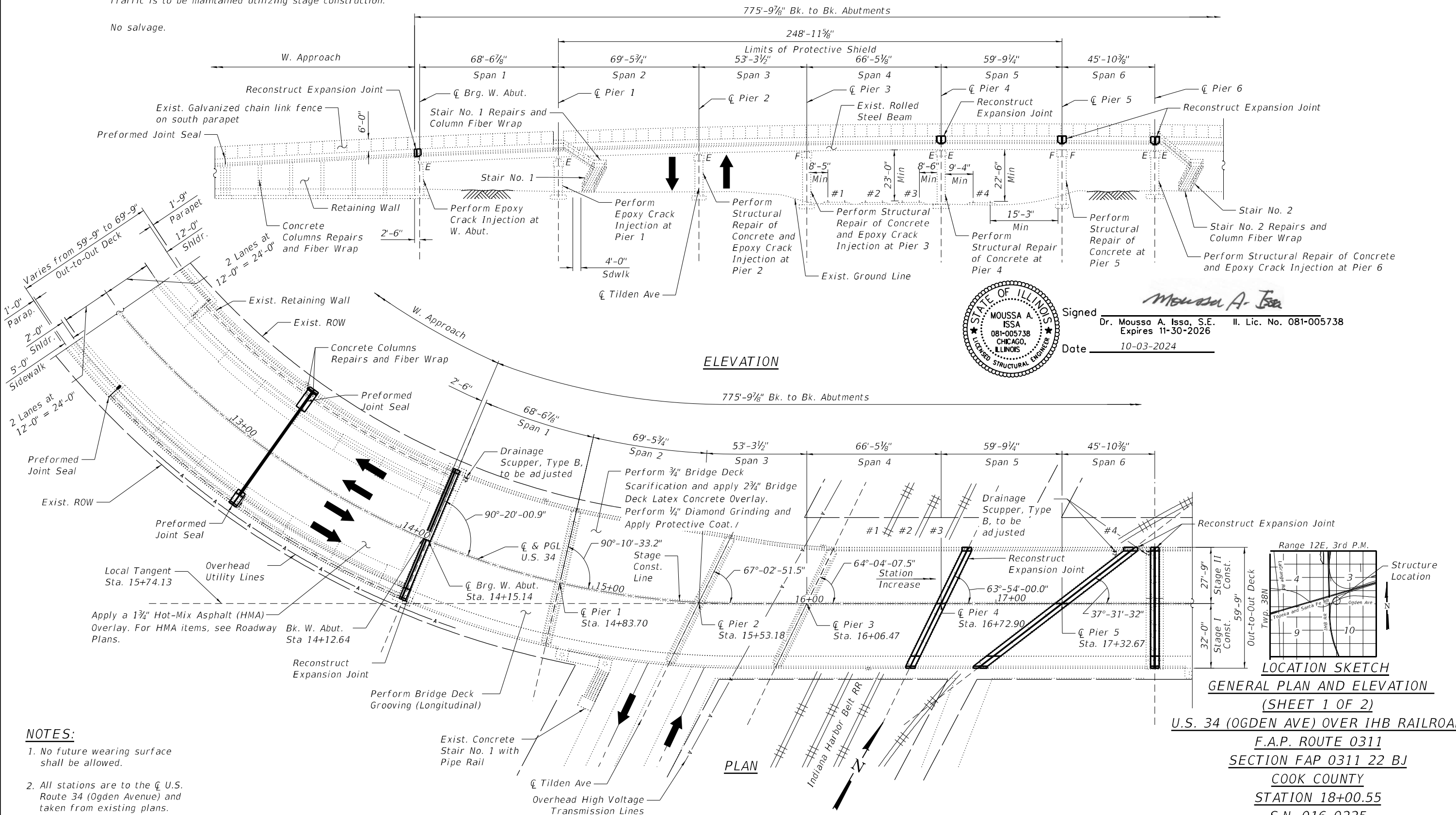
2002 AASHTO Standard Specifications for Highway Bridges

**RECONSTRUCTION 1985**

1977 AASHTO Standard Specifications for Highway Bridges with Interim Specifications as applicable.

Traffic is to be maintained utilizing stage construction.

No salvage.



Signed *Moussa A. Issa*  
 Dr. Moussa A. Issa, S.E. I.L. Lic. No. 081-005738  
 Expires 11-30-2026  
 Date 10-03-2024

**NOTES:**

- No future wearing surface shall be allowed.
- All stations are to the  $\phi$  U.S. Route 34 (Ogden Avenue) and taken from existing plans.

MODEL: Default  
 FILE NAME: p:\v\corba-pw\entley.com\corba-pw\01\Documents\Projects\IL\_DOTID\10021693\02\CADD\Struct\0160225-62R99-501-GPE1.dgn  
 10/25/2024 8:51:18 AM



USER NAME =	DESIGNED - AWD	REVISED -
	CHECKED - LAB, MI	REVISED -
PLOT SCALE =	DRAWN - AWD	REVISED -
PLOT DATE =	CHECKED - LAB, MI	REVISED -

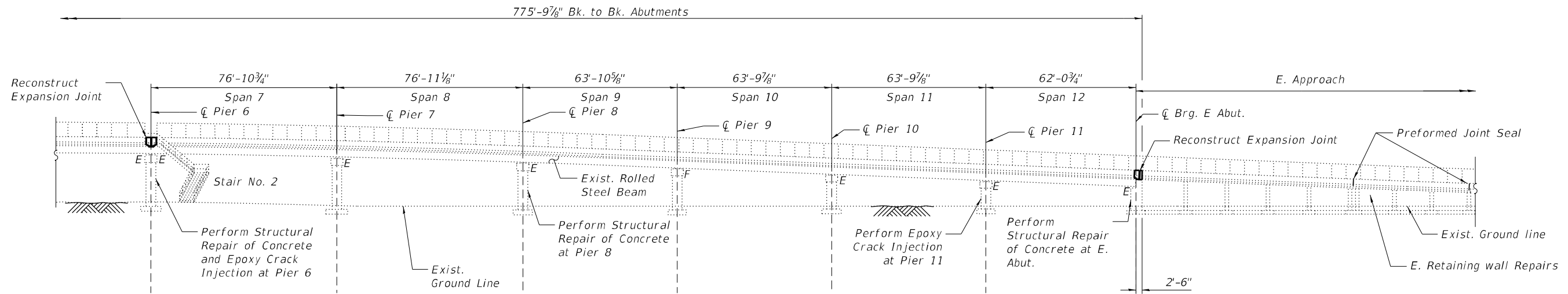
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 016-0225

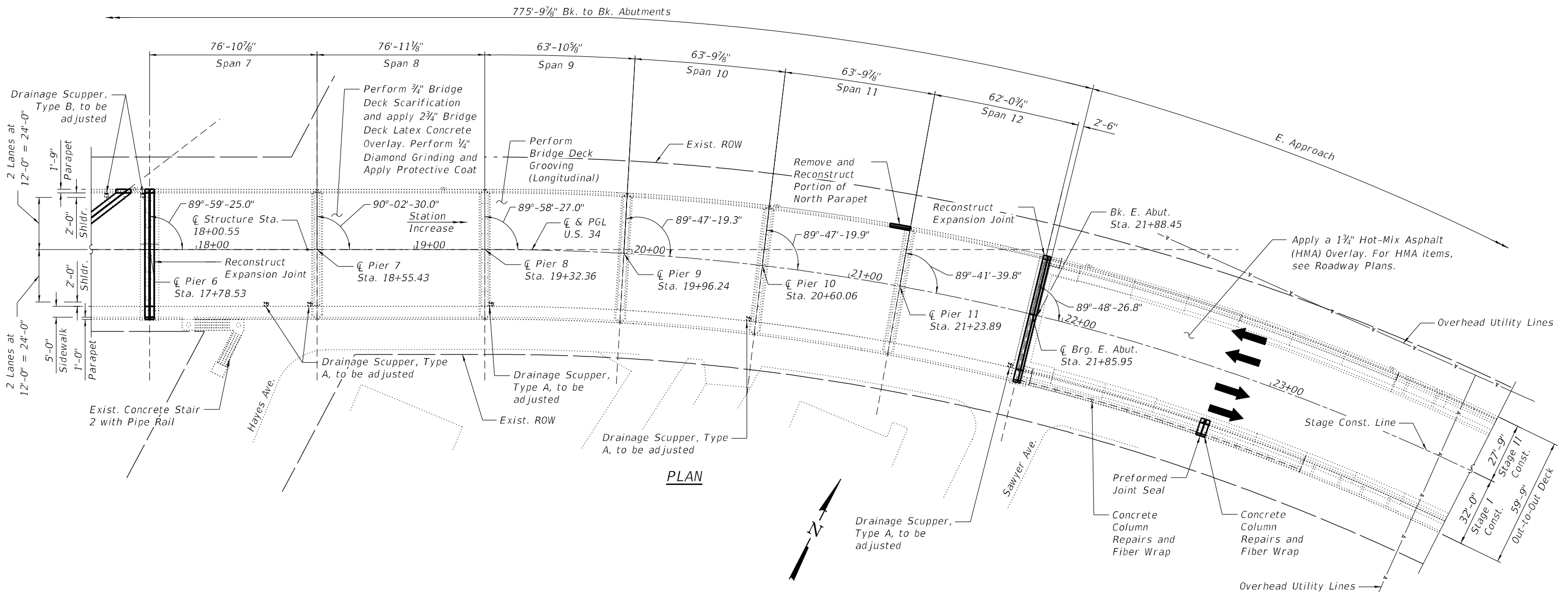
SHEET S01 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	26
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				





ELEVATION



PLAN

MODEL: Default  
 FILE NAME: p:\work\1021693\02\CADD\Struct\0160225-62R99-502-GPE2.dgn  
 PROJECT: 1021693\02\CADD\Struct\0160225-62R99-502-GPE2.dgn



USER NAME =	DESIGNED - AWD	REVISED -
PILOT SCALE =	CHECKED - LAB, MI	REVISED -
PLOT DATE =	DRAWN - AWD	REVISED -
	CHECKED - LAB, MI	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION (SHEET 2 OF 2)  
STRUCTURE NO. 016-0225

SHEET S02 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	27
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT

**GENERAL NOTES:**

- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Bars noted thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bars per line.
- All exposed concrete edges shall have a 3/4"x45° chamfer except where shown otherwise.
- 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. Cost included with Concrete Removal.
- For HMA overlay on Approach Slab, see Civil Sheets.
- Protective Coat shall be applied to the top of reconstructed transverse joint areas, top and inside faces of parapets and top of Latex Overlay.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
- Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further dispositions. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- The Contractor is responsible to protect the existing conduit embedded in the parapet during concrete removal and construction. Any damage to the existing conduit shall be repaired by the Contractor at no additional cost to the Department.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- Prior to the application of the Concrete Sealer, the Contractor shall clean all existing debris from the abutment seats. The method of debris removal shall not damage the existing concrete and shall be approved by the Engineer. The debris shall be disposed of according to Art 202.03 of the Std Specs. The cost of cleanings included in the cost of Concrete Sealer.
- Care shall be taken when performing concrete removal at the existing bridge joint not to damage the existing electrical conduit. Any damage to the existing conduit shall be repaired by the Contractor at no additional cost to the Department.

**INDEX OF SHEETS**

- S01 General Plan & Elevation (Sheet 1 of 2)
- S02 General Plan & Elevation (Sheet 2 of 2)
- S03 Gen Notes, Index of Sheets & Total Bill of Material
- S04 Stage Construction for Spans 1-3 (Sheet 1 of 2)
- S05 Stage Construction for Spans 1-3 (Sheet 2 of 2)
- S06 Stage Construction for Spans 4-12 (Sheet 1 of 2)
- S07 Stage Construction for Spans 4-12 (Sheet 2 of 2)
- S08 Temporary Concrete Barrier
- S09 Drainage Scupper Type A Adjustment Details
- S10 Drainage Scupper Type B Adjustment Details
- S11 Deck Repair Plan (Sheet 1 of 3)
- S12 Deck Repair Plan (Sheet 2 of 3)
- S13 Deck Repair Plan (Sheet 3 of 3)
- S14 North Parapet Partial Removal and Replacement
- S15 W. Abut. Exp. Jt. Removal & Replacement (Sht. 1 of 3)
- S16 W. Abut. Exp. Jt. Removal & Replacement (Sht. 2 of 3)
- S17 W. Abut. Exp. Jt. Removal & Replacement (Sht. 3 of 3)
- S18 Pier 4 Exp. Jt. Removal & Replacement (Sht. 1 of 2)
- S19 Pier 4 Exp. Jt. Removal & Replacement (Sht. 2 of 2)
- S20 Pier 5 Exp. Jt. Removal & Replacement (Sht. 1 of 2)
- S21 Pier 5 Exp. Jt. Removal & Replacement (Sht. 2 of 2)
- S22 Pier 6 Exp. Jt. Removal & Replacement (Sht. 1 of 2)
- S23 Pier 6 Exp. Jt. Removal & Replacement (Sht. 2 of 2)
- S24 E. Abut. Exp. Jt. Removal & Replacement (Sht. 1 of 3)
- S25 E. Abut. Exp. Jt. Removal & Replacement (Sht. 2 of 3)
- S26 E. Abut. Exp. Jt. Removal & Replacement (Sht. 3 of 3)
- S27 East & West Appr. South Exp. Jt. Removal & Replacement
- S28 West Approach North Exp. Jt. Removal & Replacement
- S29 West Approach Slab Repairs
- S30 East Approach Slab Repairs
- S31 Prefomed Joint Strip Seal-Sidewalk (Sheet 1 of 2)
- S32 Prefomed Joint Strip Seal-Sidewalk (Sheet 2 of 2)
- S33 West Abutment Repairs
- S34 East Abutment Repairs
- S35 Pier 1 Repairs
- S36 Pier 2 Repairs
- S37 Pier 3 Repairs
- S38 Pier 4 Repairs
- S39 Pier 5 Repairs
- S40 Pier 6 Repairs
- S41 Pier 7 Repairs
- S42 Pier 8 Repairs
- S43 Pier 9 Repairs
- S44 Pier 10 Repairs
- S45 Pier 11 Repairs
- S46 West Approach Column Repairs
- S47 East Approach Column Repairs
- S48 Stair 1 Repairs
- S49 Stair 2 Repairs
- S50 Bar Splicer Assembly Details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	60.1	-	60.1
Protective Shield	Sq Yd	1,767	-	1,767
Concrete Superstructure	Cu Yd	67.1	-	67.1
Protective Coat	Sq Yd	5,332	-	5,332
Reinforcement Bars, Epoxy Coated	Pound	9,460	-	9,460
Bar Splicers	Each	84	-	84
Prefomed Joint Seal 2"	Foot	42	-	42
Prefomed Joint Strip Seal	Foot	349	-	349
Concrete Sealer	Sq Ft	-	1,955	1,955
Epoxy Crack Injection	Foot	-	111	111
Acrylic Coating	Sq Yd	-	34.1	34.1
Fiber Wrap	Sq Ft	-	307	307
Bridge Deck Grooving (Longitudinal)	Sq Yd	4,120	-	4,120
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq Yd	4,542	-	4,542
Cleaning Drainage System	L Sum	1	-	1
Bridge Deck Scarification 3/4"	Sq Yd	4,542	-	4,542
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	-	153	153
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	-	41	41
Deck Slab Repair (Full Depth, Type I)	Sq Yd	7	-	7
Deck Slab Repair (Full Depth, Type II)	Sq Yd	1	-	1
Drainage Scuppers To Be Adjusted	Each	8	-	8
Diamond Grinding (Bridge Section)	Sq Yd	4,206	-	4,206
Polymer Concrete	Cu Ft	-	10	10
Temporary Shoring And Cribbing	Each	-	5	5

**SCOPE OF WORK**

- Provide Protective shield within limits indicated on the plans.
- Scarify 3/4" from the bridge deck slab.
- Perform deck slab repairs.
- Reconstruct Expansion Joints at the West abutment, Piers 4, 5 and 6 and East abutment and install new prefomed joint strip seals.
- Adjust and clean existing drainage scuppers types A and B.
- Apply a 2 3/4" Bridge Deck Latex Concrete Overlay on Bridge Deck.
- Perform 1/4" Diamond Grinding to top of bridge deck and abutment hatched block.
- Reconstruct West Approach Expansion Joints #2 and #3, reconstruct East Approach Expansion Joint #1, and install new prefomed joint seals.
- Perform Approach Slab repairs at east and west approaches.
- Apply HMA Overlay to Taper Roadway Profile on the Approach Slabs, see Roadway Plans.
- Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
- Apply protective coat to the top of reconstructed transverse joint areas, top and inside faces of parapets and top of Latex Overlay.
- Perform structural concrete repairs and epoxy crack injection for the abutments, piers, columns and stair tread and riser ends as noted on the plans.
- Remove and replace a portion of the North Parapet near Pier 11.
- Perform Fiber Wrap Repair at approach and stair columns.

MODEL: Default  
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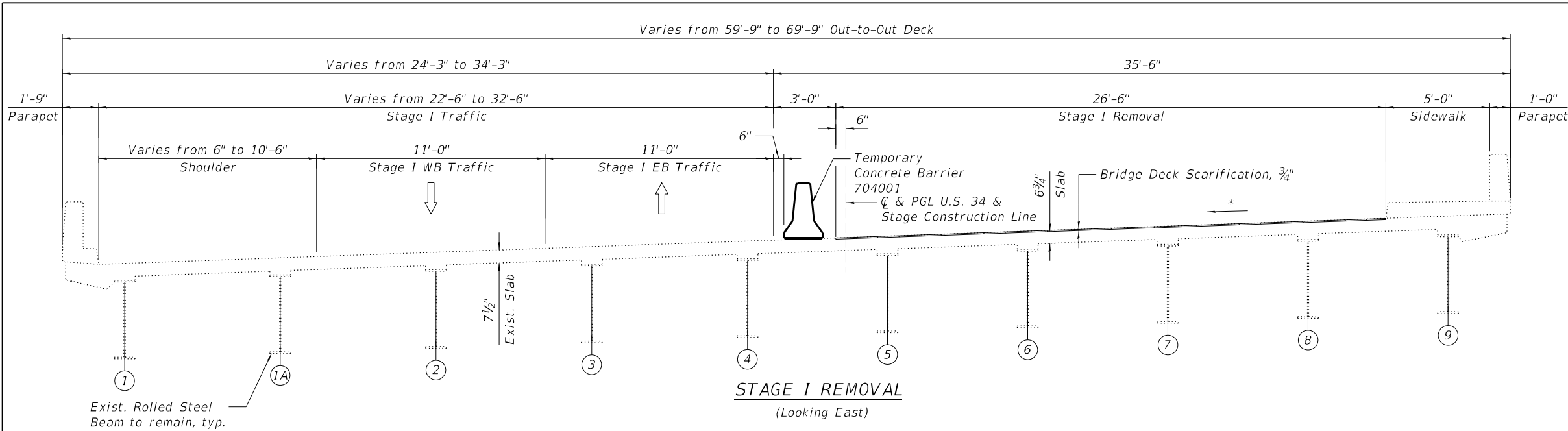
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEN NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL  
STRUCTURE NO. 016-0225**

SHEET S03 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	28
CONTRACT NO. 62R99				
		ILLINOIS	FED. AID PROJECT	



**STAGE I REMOVAL**

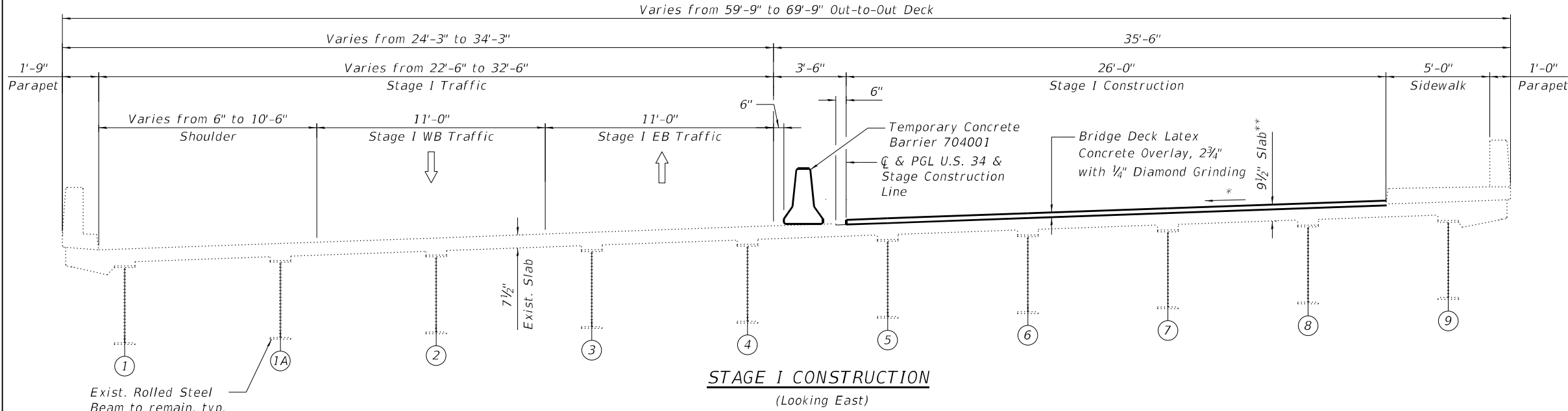
(Looking East)

**STAGE I REMOVAL**

1. Install temporary concrete barrier as shown to locate traffic on the north side of the existing structure.
2. Perform 3/4" bridge deck scarification.
3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
4. Remove portions of bridge concrete deck/approach slab adjacent to expansion joints, as shown in the plans.
5. Perform temporary shoring and cribbing at locations on the plans within the limits of Stage I Removal.

**STAGE I CONSTRUCTION**

1. Perform bridge deck slab repairs.
2. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals, within the limits of Stage I Construction.
3. Perform structural repair of concrete and epoxy crack injection for the abutments and piers.
4. Apply 2 3/4" bridge deck latex concrete overlay.
5. Perform 1/4" Diamond Grinding to bridge deck and abutment hatched block.
6. Perform bridge deck grooving (longitudinal) for the 2 3/4" bridge deck latex concrete overlay and reconstructed pier and abutment expansion joint areas.
7. Adjust drainage scuppers.
8. Apply 1 3/4" Hot-Mix Asphalt (HMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.
9. Apply protective coat to top and inside faces of south parapet and sidewalk, reconstructed transverse pier and abutment expansion joints and to the surfaces of the new overlay.
10. Perform Approach South Column and Stair repairs as shown on the plans.

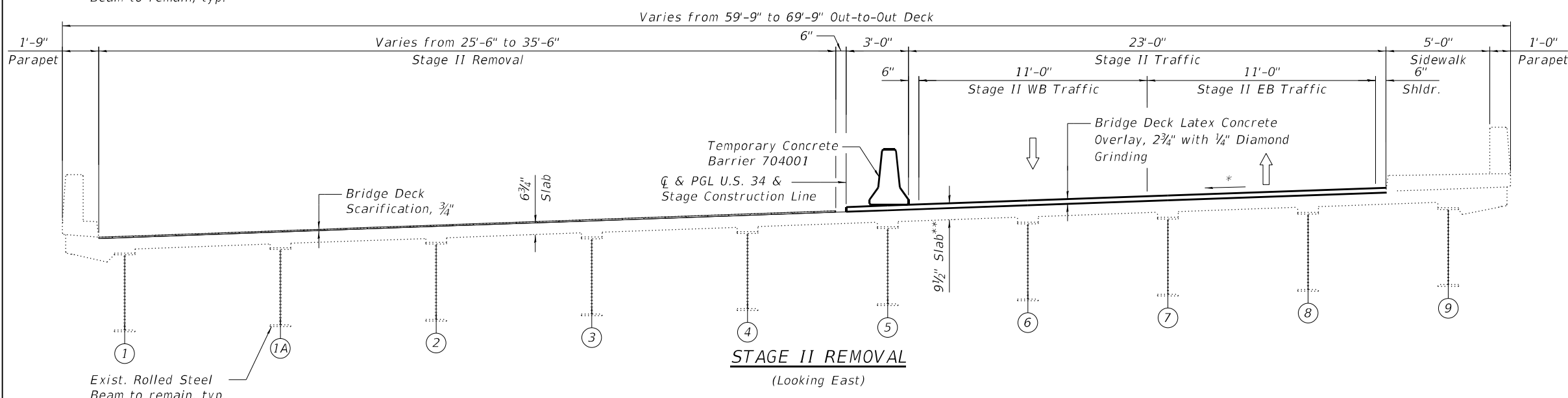


**STAGE I CONSTRUCTION**

(Looking East)

**STAGE II REMOVAL**

1. Install temporary concrete barrier as shown to locate traffic on the south side of the existing structure.
2. Perform 3/4" bridge deck scarification.
3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
4. Remove portions of bridge concrete deck/approach slab adjacent to expansion joints, as shown in the plans.
5. Perform temporary shoring and cribbing at locations on the plans within the limits of Stage II Removal.



**STAGE II REMOVAL**

(Looking East)

\*Match existing cross slopes  
\*\*Before 1/4" Diamond Grinding

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION FOR SPANS 1 - 3 (SHEET 1 OF 2)  
STRUCTURE NO. 016-0225

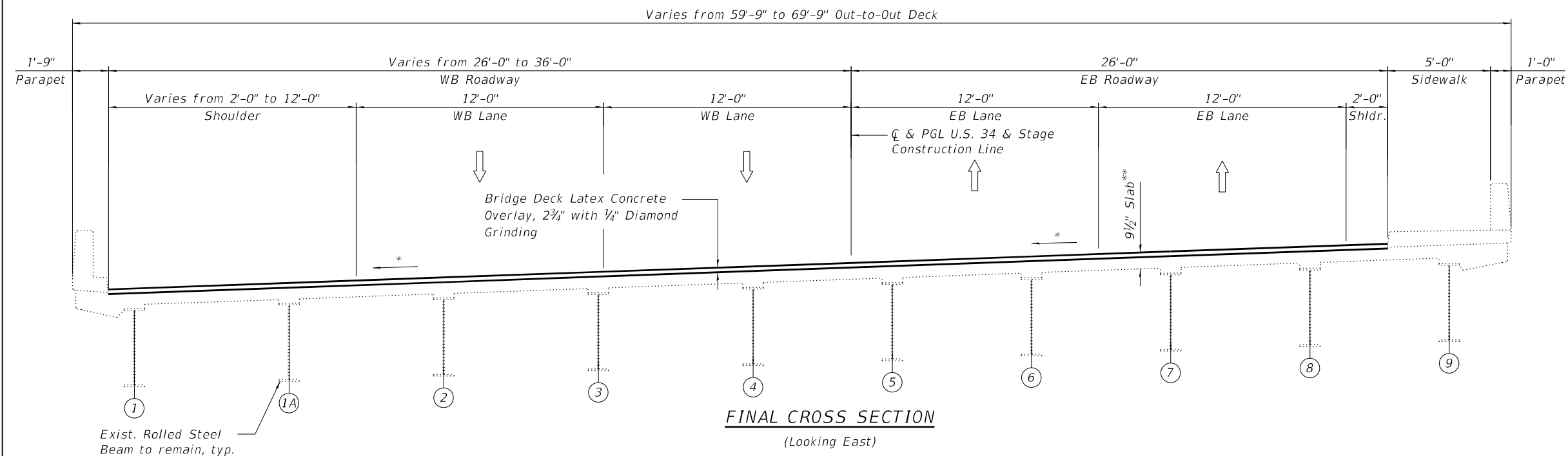
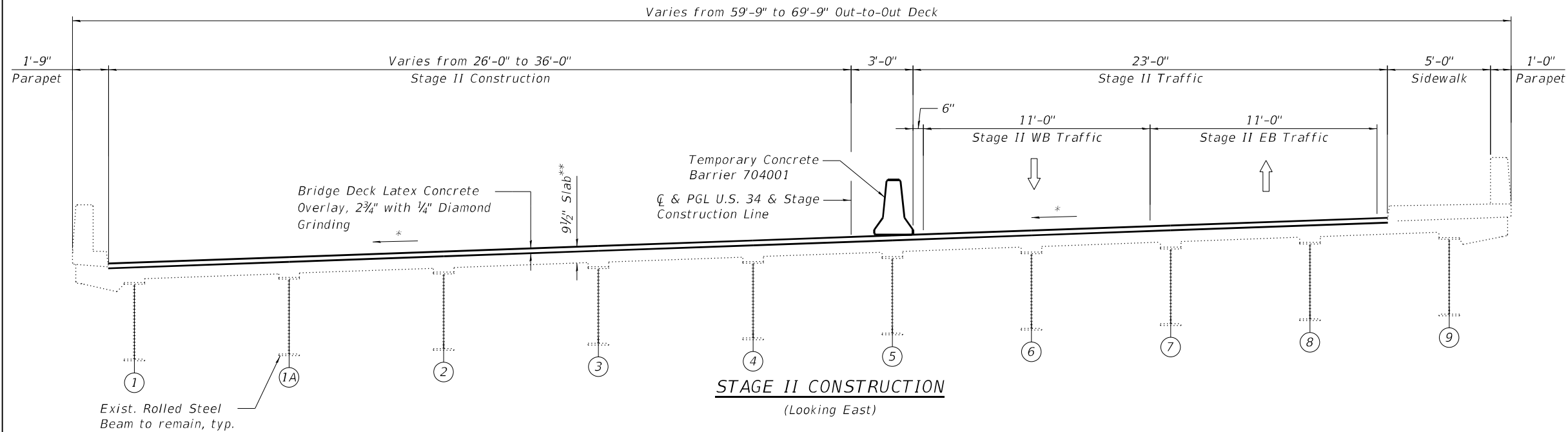
SHEET S04 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	29
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT

**STAGE II CONSTRUCTION**

1. Perform bridge deck slab repairs.
2. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals, within the limits of Stage II Construction.
3. Perform structural repair of concrete and epoxy crack injection for the abutments and piers.
4. Apply 2 3/4" bridge deck latex concrete overlay.
5. Perform 1/4" Diamond Grinding to bridge deck and abutment hatch block.
6. Perform bridge deck grooving (longitudinal) for the 2 3/4" bridge deck latex concrete overlay and reconstructed pier and abutment expansion joint areas.
7. Adjust drainage scuppers.
8. Apply 1 3/4" Hot-Mix Asphalt (HMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.
9. Apply protective coat to the top and inside faces of north parapet, reconstructed pier and abutment expansion joint areas, and to the surfaces of the new overlay.
10. Perform Approach North Column repairs as shown on the plans.



\*Match Existing Cross Slopes  
\*\*Before 1/4" Diamond Grinding

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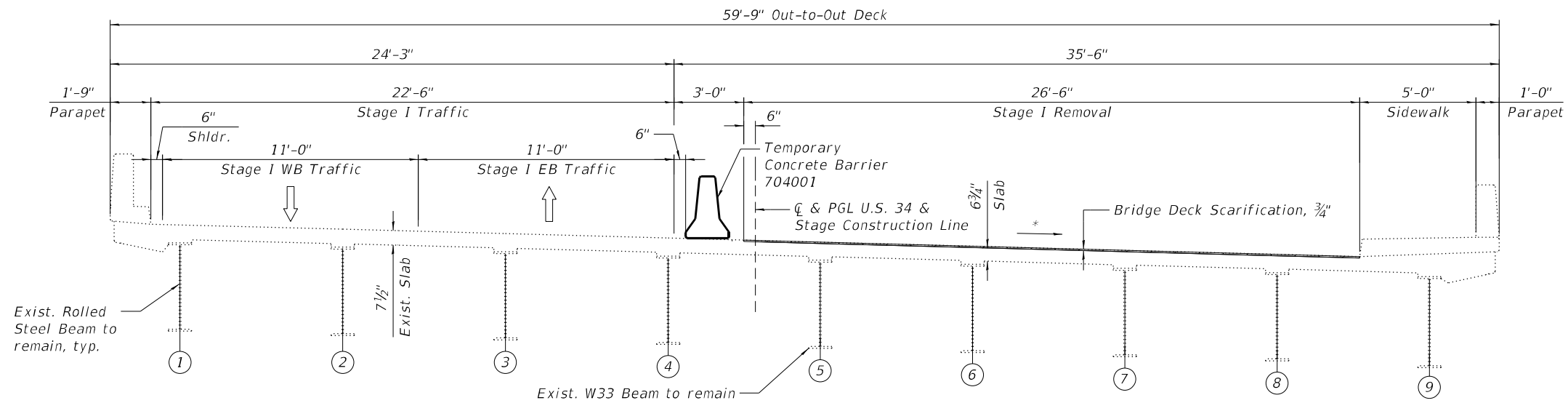
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

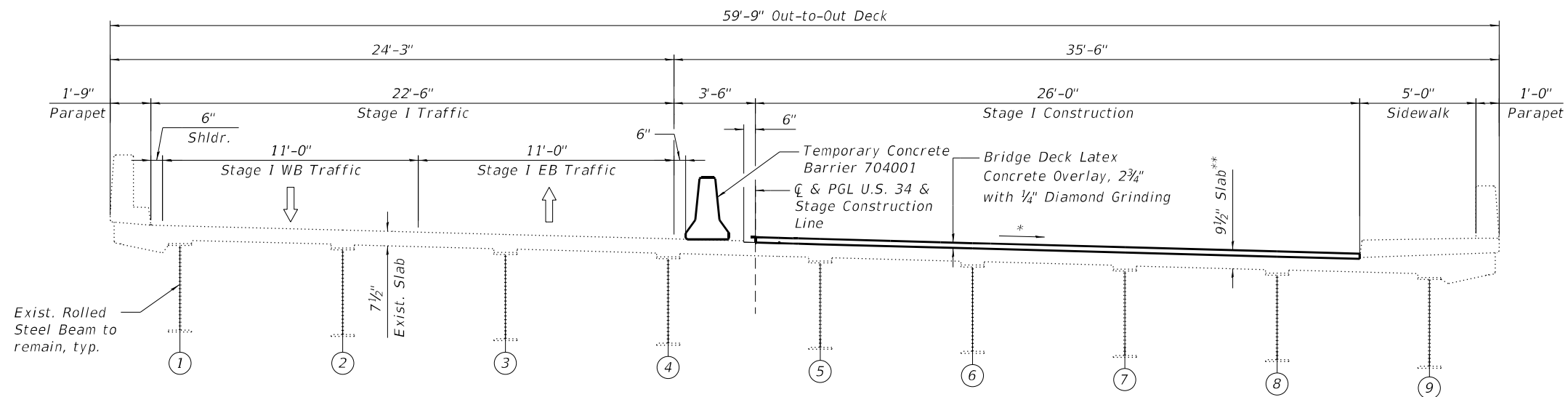
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STRUCTURE NO. 016-0225

SHEET S05 OF S50 SHEETS

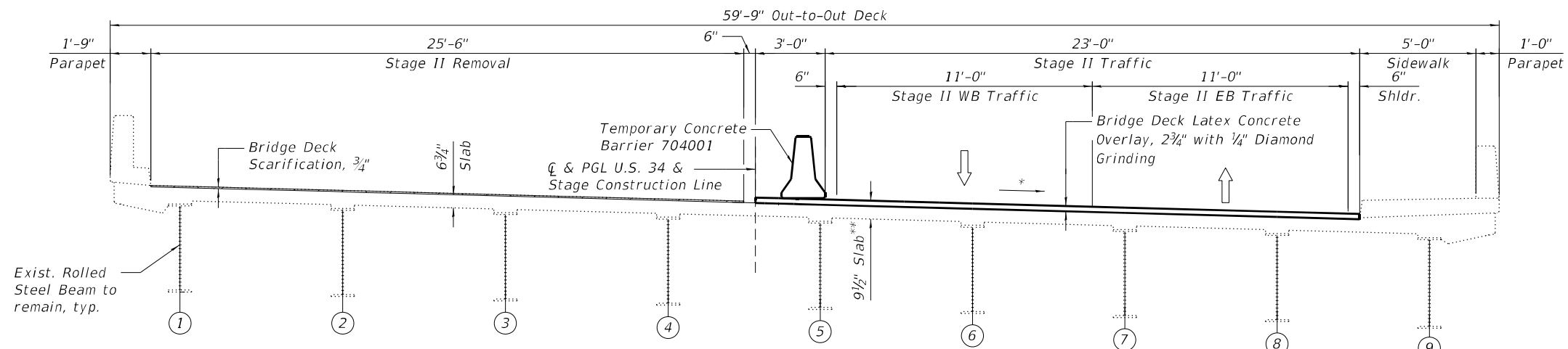
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0311	FAP 0311 22 BJ	COOK	83	30
CONTRACT NO. 62R99				
		ILLINOIS	FED. AID PROJECT	



**STAGE I REMOVAL**  
(Looking East)



**STAGE I CONSTRUCTION**  
(Looking East)



**STAGE II REMOVAL**  
(Looking East)

**STAGE I REMOVAL**

1. Install temporary concrete barrier as shown to locate traffic on the north side of the existing structure.
2. Perform 3/4" bridge deck scarification.
3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
4. Remove portions of bridge concrete deck/approach slab adjacent to expansion joints, as shown in the plans.
5. Perform temporary shoring and cribbing at locations on the plans within the limits of Stage I Removal.

**STAGE I CONSTRUCTION**

1. Perform bridge deck slab repairs.
2. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals, within the limits of Stage I Construction.
3. Perform structural repair of concrete and epoxy crack injection for the abutments and piers.
4. Apply 2 3/4" bridge deck latex concrete overlay.
5. Perform 1/4" Diamond Grinding to bridge deck and abutment hatch block.
6. Perform bridge deck grooving (longitudinal) for the 2 3/4" bridge deck latex concrete overlay and reconstructed pier and abutment expansion joint areas.
7. Apply 1 3/4" Hot-Mix Asphalt (HMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.
8. Apply protective coat to top and inside faces of south parapet and sidewalk, reconstructed transverse pier and abutment expansion joints and to the surfaces of the new overlay.
9. Perform Retaining Wall repairs as shown on the plans.

**STAGE II REMOVAL**

1. Install temporary concrete barrier as shown to locate traffic on the south side of the existing structure.
2. Perform 3/4" bridge deck scarification.
3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
4. Remove portions of bridge concrete deck/approach slab adjacent to expansion joints, as shown in the plans.

\*Match existing cross slopes  
\*\*Before 1/4" Diamond Grinding

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

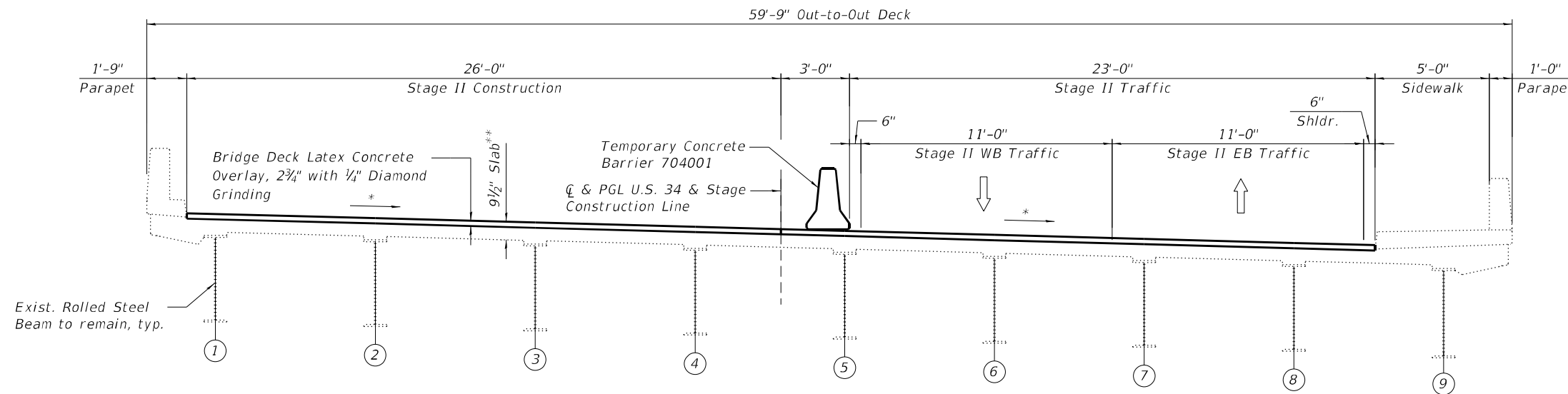
STAGE CONSTRUCTION FOR SPANS 4-12 (SHEET 1 OF 2)  
STRUCTURE NO. 016-0225

SHEET S06 OF S50 SHEETS

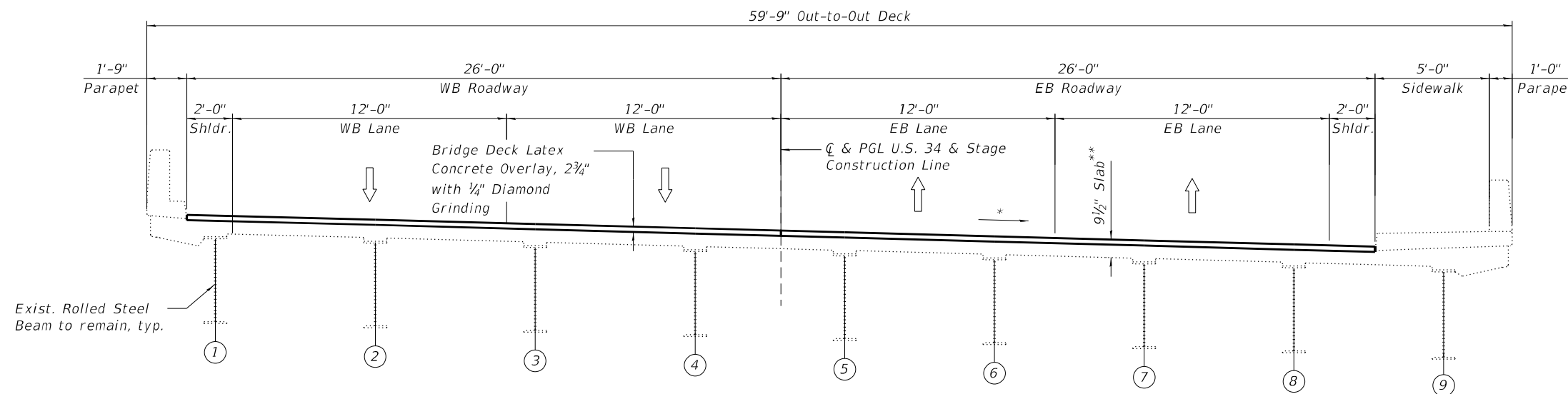
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0311	FAP 0311 22 BJ	COOK	83	31
CONTRACT NO. 62R99				
		ILLINOIS FED. AID PROJECT		

**STAGE II CONSTRUCTION**

1. Perform bridge deck slab repairs.
2. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals, within the limits of Stage II Construction.
3. Perform structural repair of concrete and epoxy crack injection for the abutments and piers.
4. Apply 2¾" bridge deck latex concrete overlay.
5. Perform ¼" Diamond Grinding to bridge deck and abutment hatch block.
6. Perform bridge deck grooving (longitudinal) for the 2¾" bridge deck latex concrete overlay and reconstructed pier and abutment expansion joint areas.
7. Apply 1¾" Hot-Mix Asphalt (HMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.
8. Apply protective coat to the top and inside faces of north parapet, reconstructed pier and abutment expansion joint areas, and to the surfaces of the new overlay.
9. Perform Retaining Wall repairs as shown on the plans.



**STAGE II CONSTRUCTION**  
(Looking East)



**FINAL CROSS SECTION**  
(Looking East)

\*Match Existing Cross Slopes  
\*\*Before ¼" Diamond Grinding

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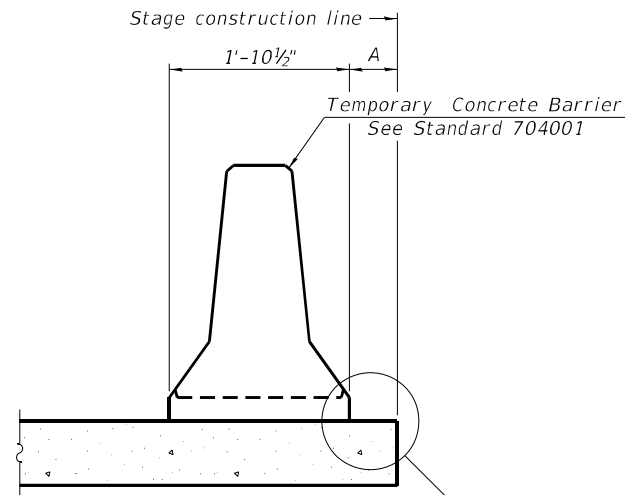
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION FOR SPANS 4-12 (SHEET 2 OF 2)  
STRUCTURE NO. 016-0225

SHEET S07 OF S50 SHEETS

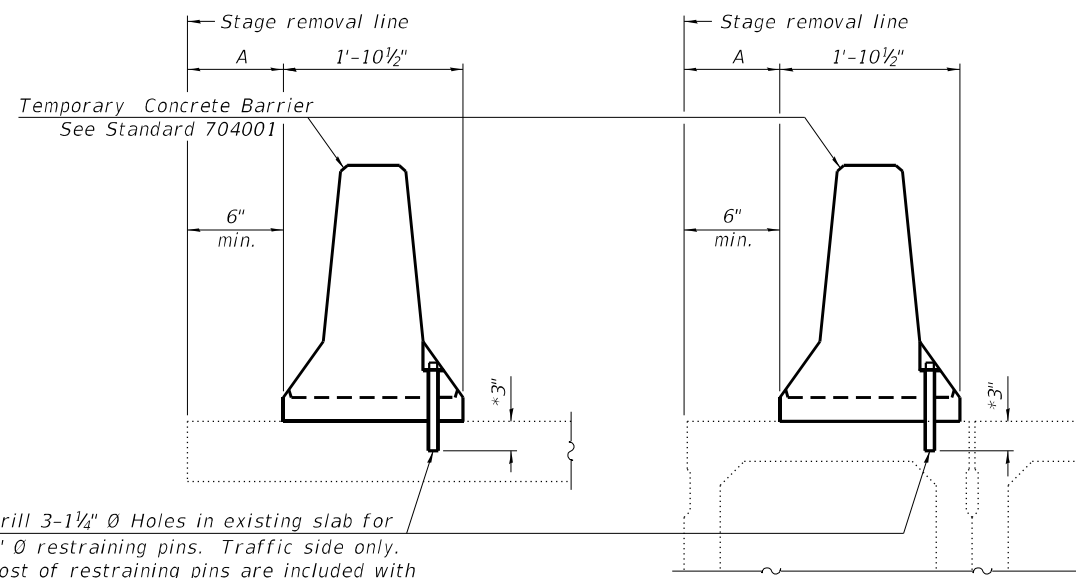
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0311	FAP 0311 22 BJ	COOK	83	32
CONTRACT NO. 62R99				

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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**



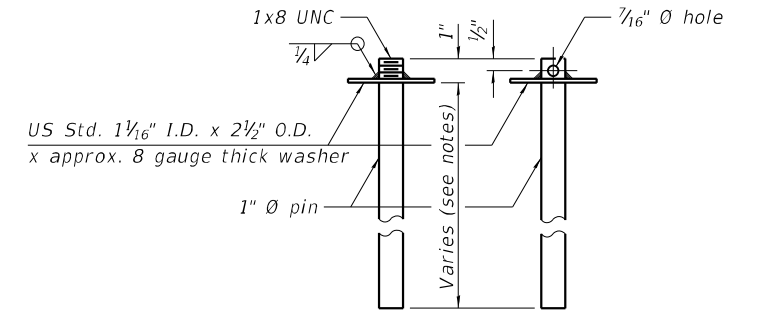
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

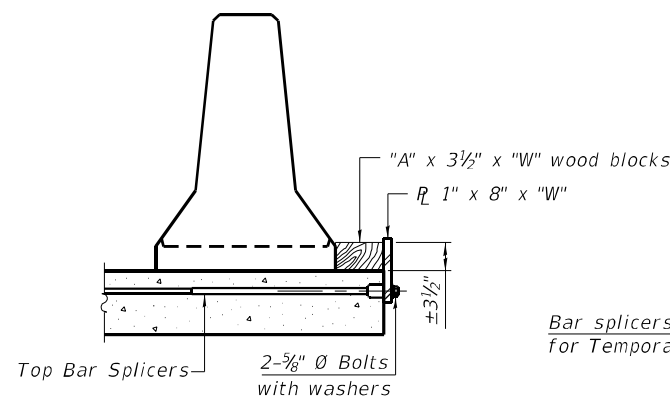
**EXISTING DECK BEAM**

\*When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

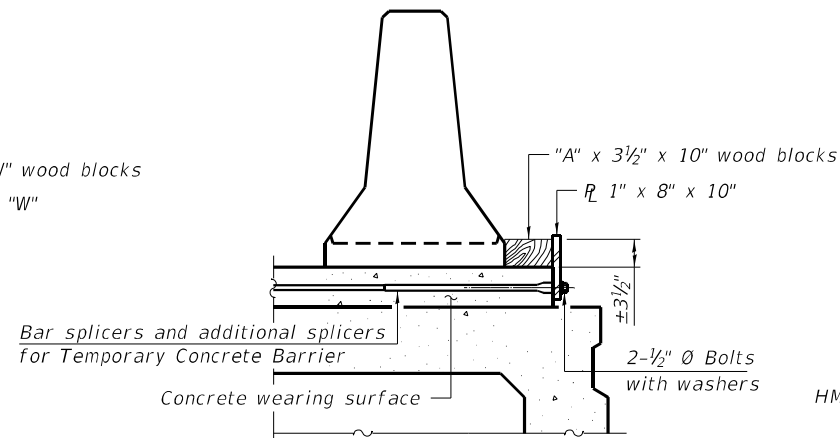
**SECTIONS THRU SLAB OR DECK BEAM**



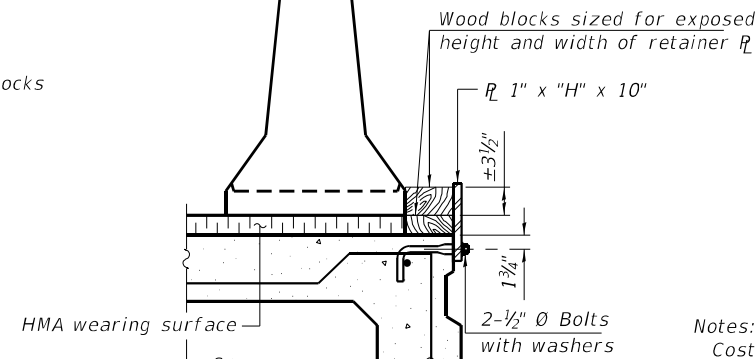
**RESTRAINING PIN**



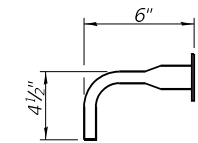
**DETAIL I**



**DETAIL II**



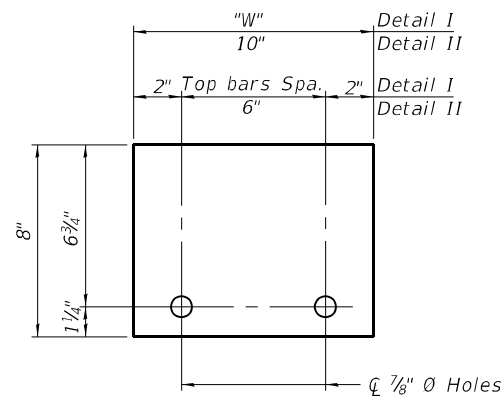
**DETAIL III**



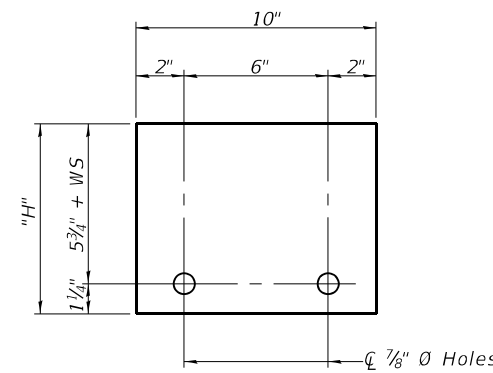
**BAR SPLICER FOR #4 BAR - DETAIL III**

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\bar{C}$  of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.  
 For deck beam applications the minimum required 'A' distance is 6' to accommodate the shear key clamping device.

**Detail I** - Installation for a new bridge deck or bridge slab.  
**Detail II** - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III** - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6' apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



**STEEL RETAINER R 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER R 1" x "H" x 10"**  
(Detail III)

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

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STATE OF ILLINOIS  
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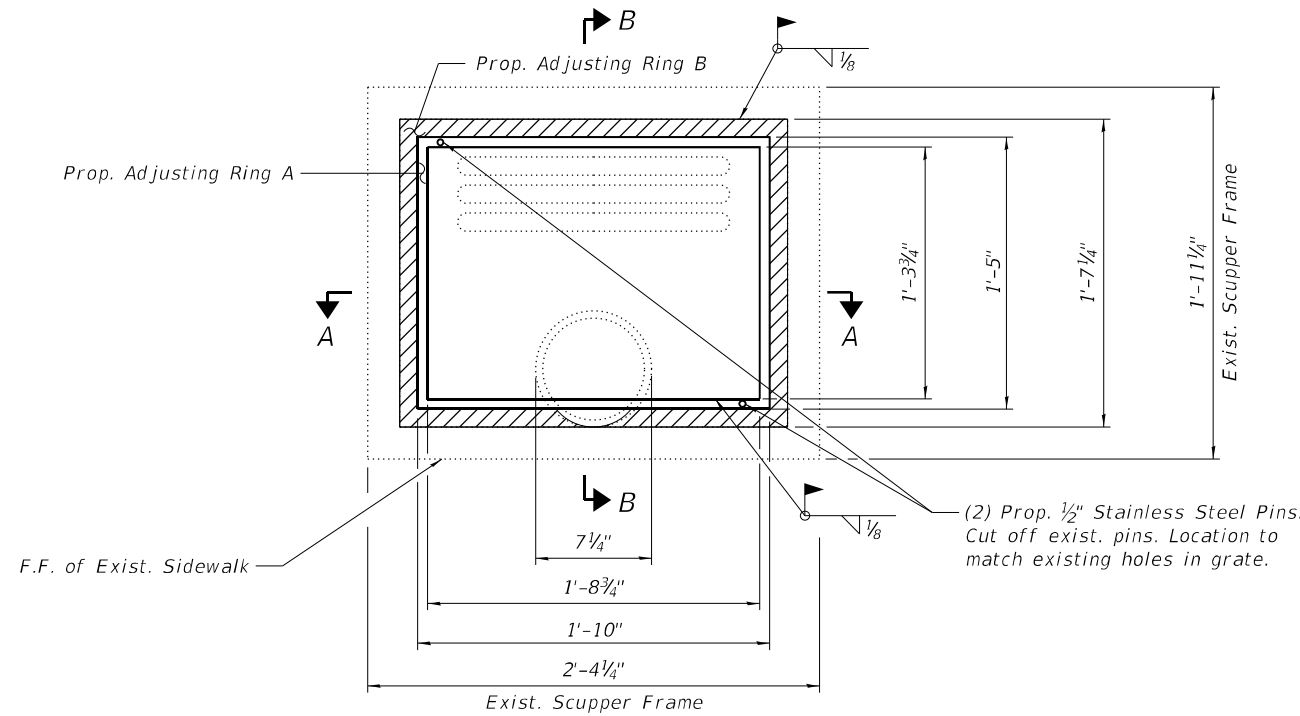
TEMPORARY CONCRETE BARRIER  
 STRUCTURE NO. 016-0225

SHEET 508 OF 550 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	33
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

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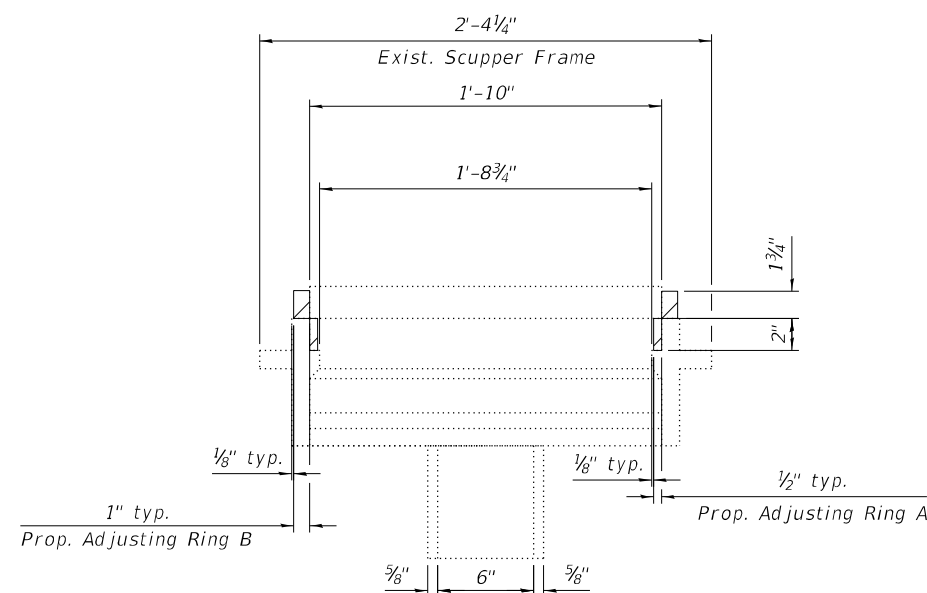
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Drainage Scuppers To Be Adjusted	Each	5



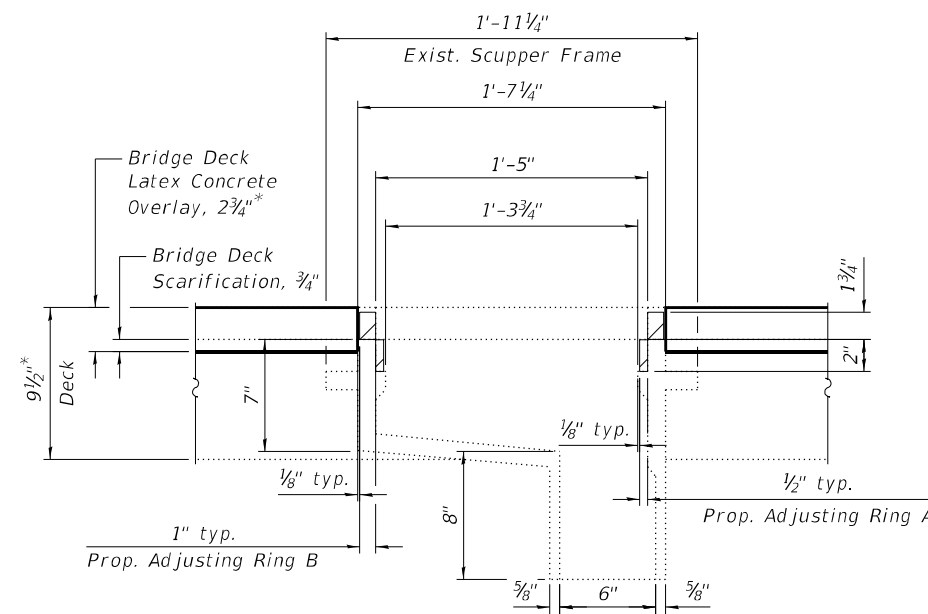
**TYPICAL SCUPPER TYPE A PLAN**

**NOTES:**

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Rings or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Cast Iron Parts shall be unfinished.
4. The Contractor shall take appropriate measures to ensure that Protective Coat is not applied to the scuppers.
5. Adjusting Rings shall be from Neenah or approved equal. Structural steel weldments or equal section and of the same configuration may be submitted in place of Cast Iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Rings to secure to existing Scupper.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and reinstall grates is included in the cost for Drainage Scupper to be Adjusted.



**SECTION A-A**



**SECTION B-B**

\*Before 1/4" Diamond Grinding

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DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCUPPER TYPE A ADJUSTMENT DETAILS  
STRUCTURE NO. 016-0225**

SHEET S09 OF S50 SHEETS

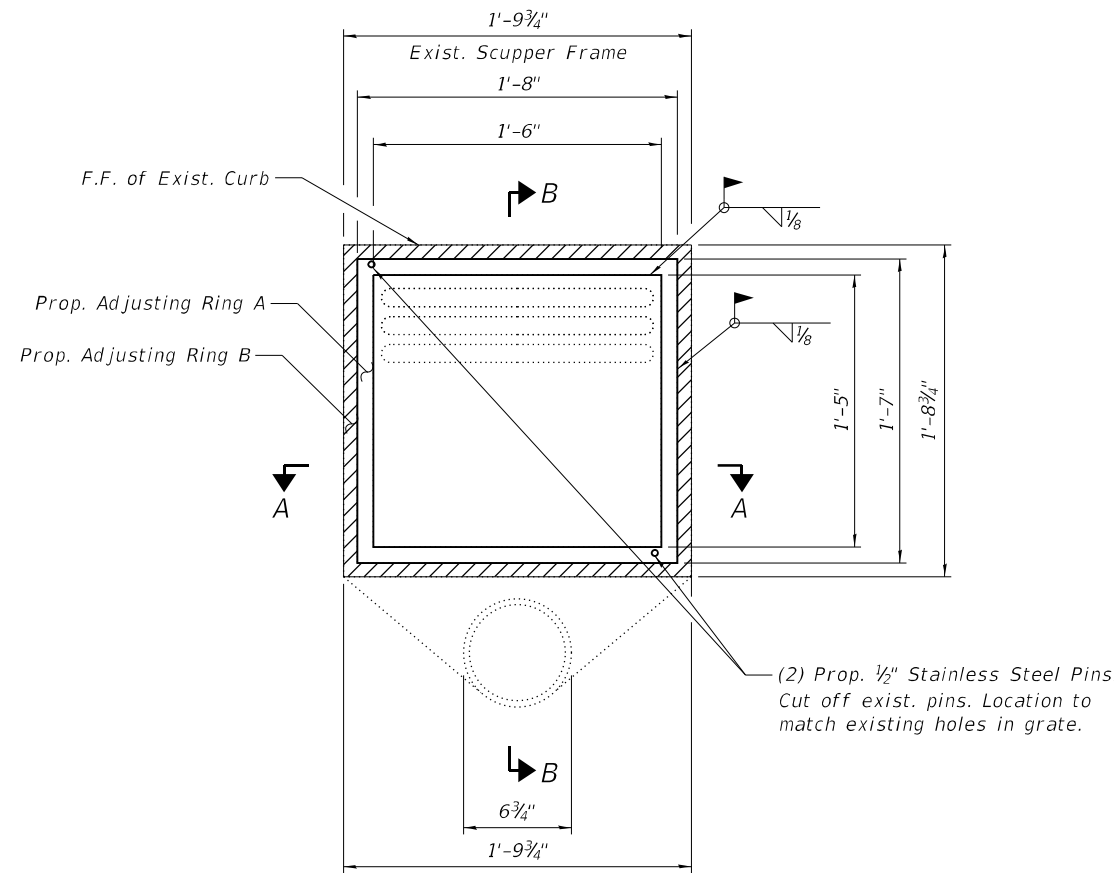
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CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT

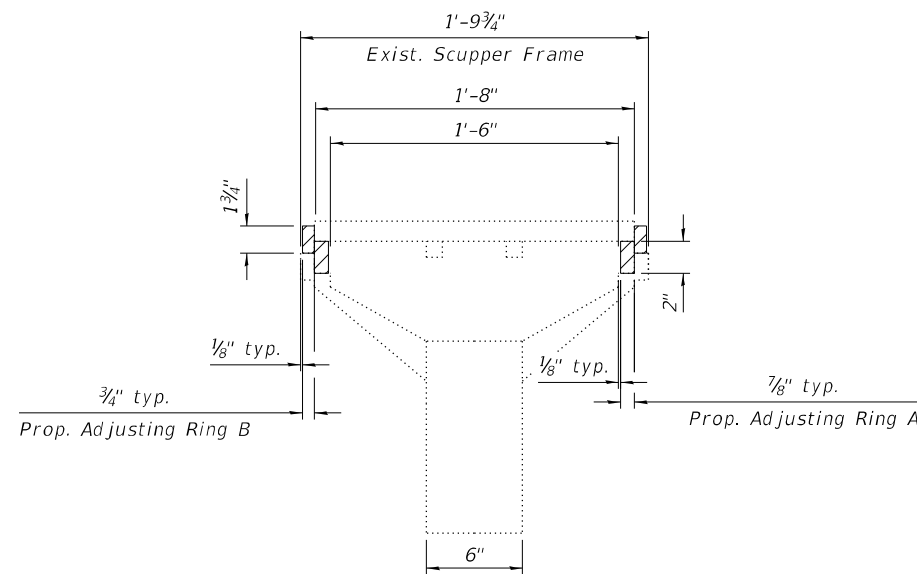


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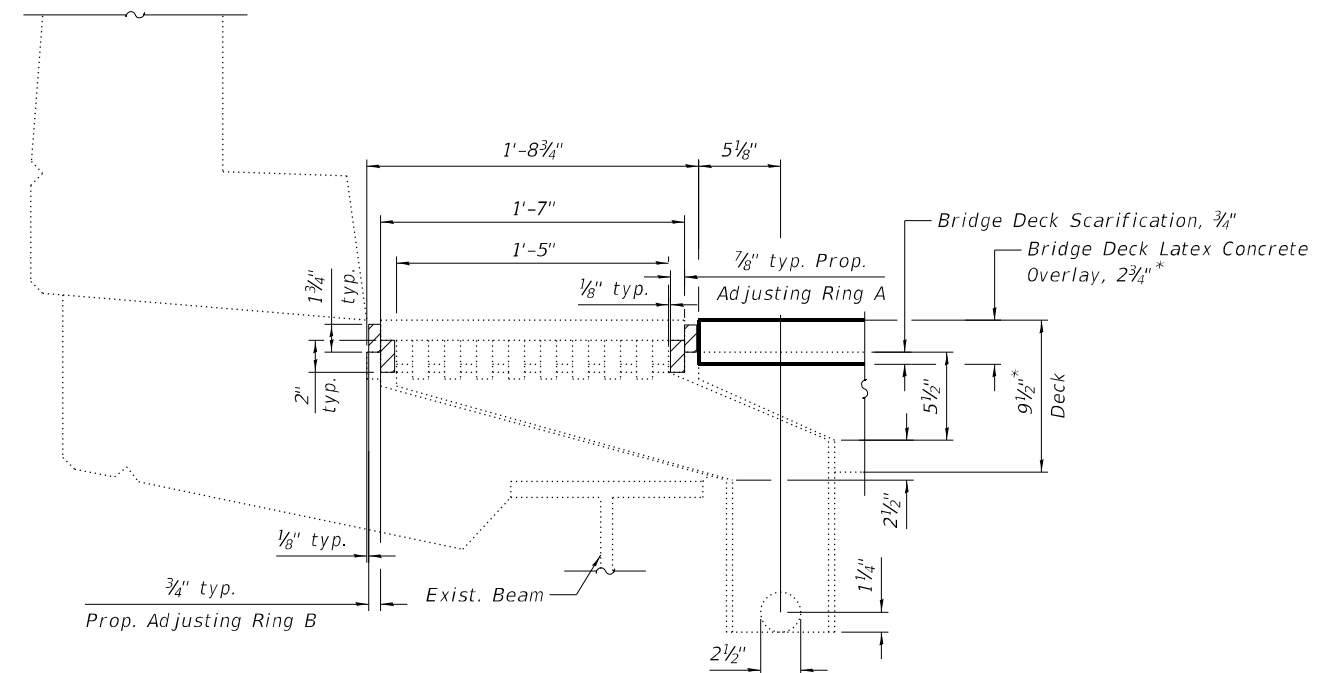
ITEM	UNIT	QUANTITY
Drainage Scuppers To Be Adjusted	Each	3



**TYPICAL SCUPPER TYPE B PLAN**



**SECTION A-A**



**SECTION B-B**

**NOTES:**

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Rings or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Cast Iron Parts shall be unfinished.
4. The Contractor shall take appropriate measures to ensure that Protective Coat is not applied to the scuppers.
5. Adjusting Rings shall be from Neenah or approved equal. Structural steel weldments or equal section and of the same configuration may be submitted in place of Cast Iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Rings to secure to existing Scupper.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and reinstall grates is included in the cost for Drainage Scupper to be Adjusted.

\*Before 1/4" Diamond Grinding

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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCUPPER TYPE B ADJUSTMENT DETAILS  
STRUCTURE NO. 016-0225**

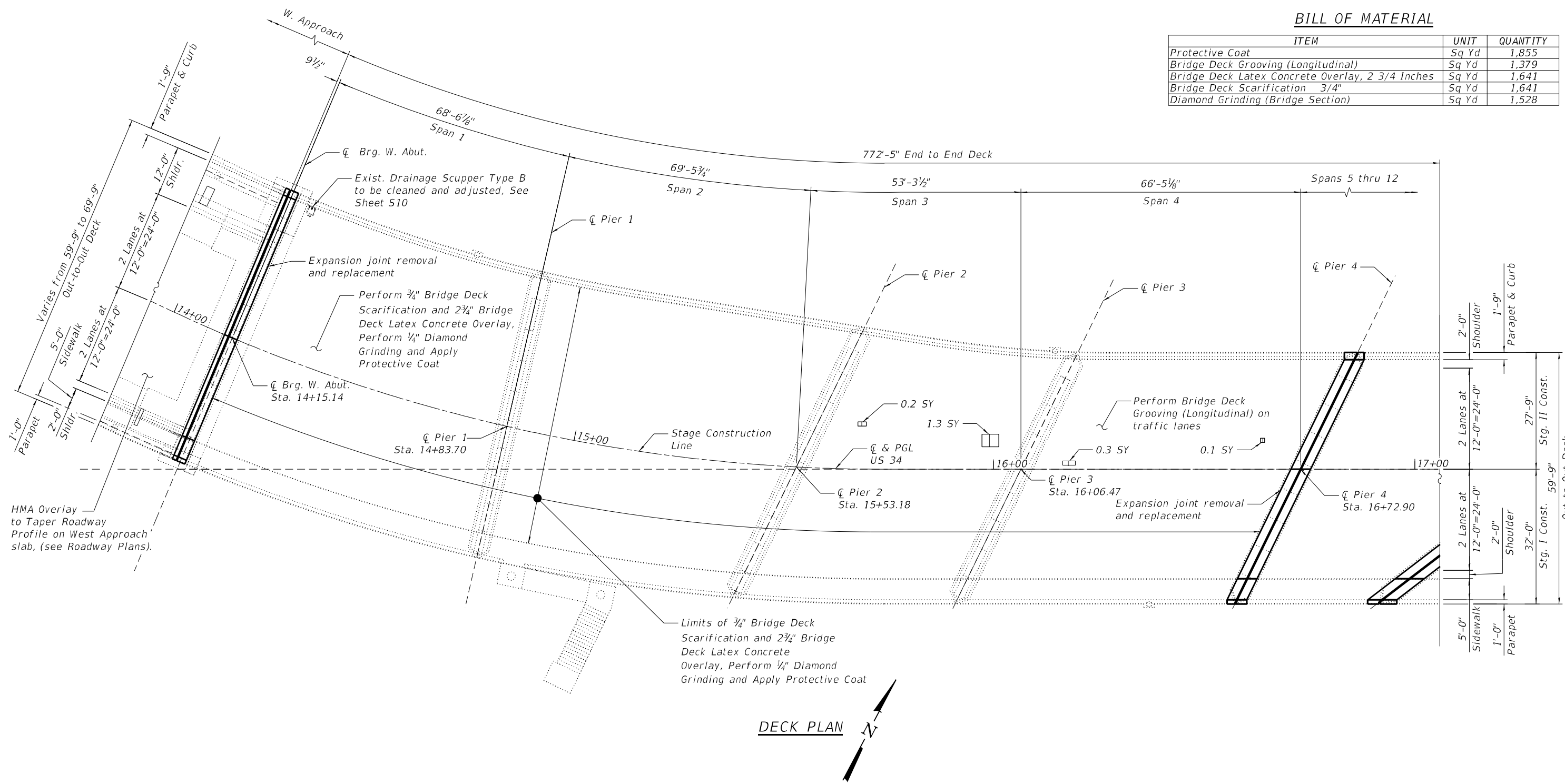
SHEET S10 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	35
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Protective Coat	Sq Yd	1,855
Bridge Deck Grooving (Longitudinal)	Sq Yd	1,379
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq Yd	1,641
Bridge Deck Scarification 3/4"	Sq Yd	1,641
Diamond Grinding (Bridge Section)	Sq Yd	1,528



**DECK PLAN**

**NOTES:**

1. Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross section, see Sheet S07.
3. For transverse joint removal and reconstruction details, see Sheets S15 thru S26.
4. Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.

\*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 3/4"

**LEGEND**

	* Deck Slab Repair (Partial Depth)
SY	Square Yard

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

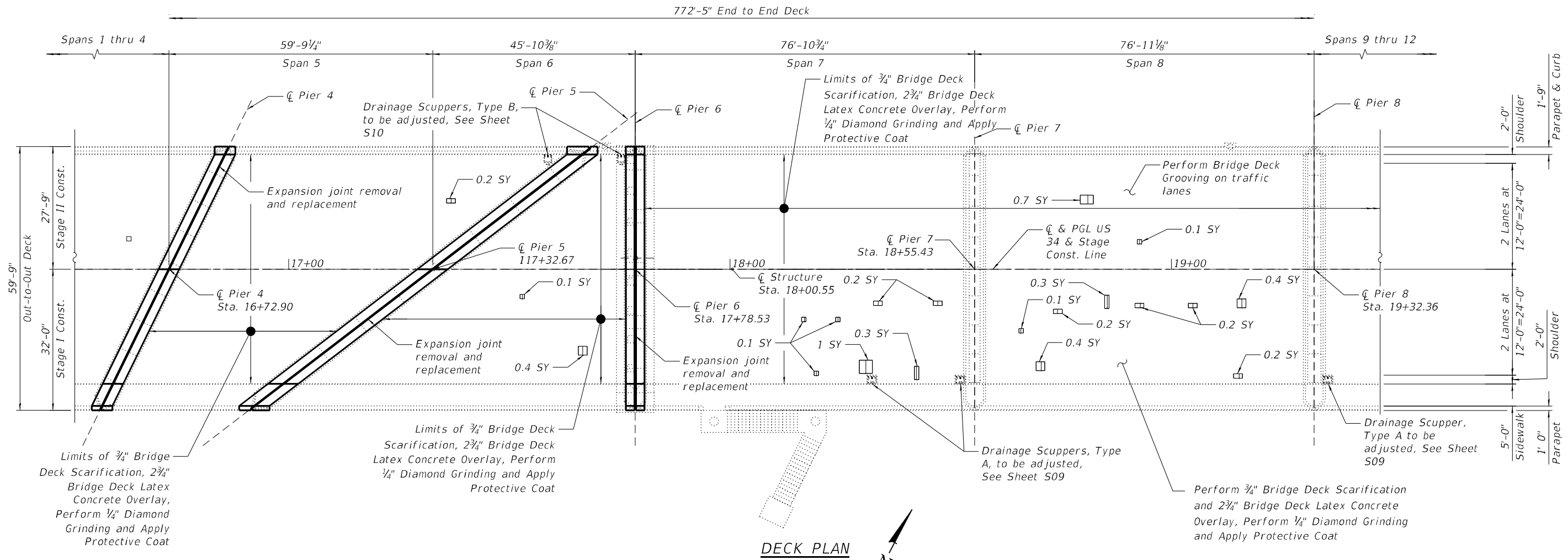
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STRUCTURE NO. 016-0225**

SHEET S11 OF S50 SHEETS

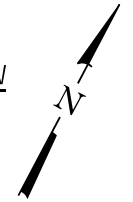
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0311	FAP 0311 22 BJ	COOK	83	36
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Protective Coat	Sq Yd	1,651
Bridge Deck Grooving (Longitudinal)	Sq Yd	1,384
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq Yd	1,442
Bridge Deck Scarification 3/4"	Sq Yd	1,442
Diamond Grinding (Bridge Section)	Sq Yd	1,331



**DECK PLAN**



\*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 3/4"

**LEGEND**

	*Deck Slab Repair (Partial Depth)
SY	Square Yard

**NOTE:**  
1. For notes, see Sheet S11.

MODEL: Default  
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USER NAME =	DESIGNED - LR	REVISED -
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

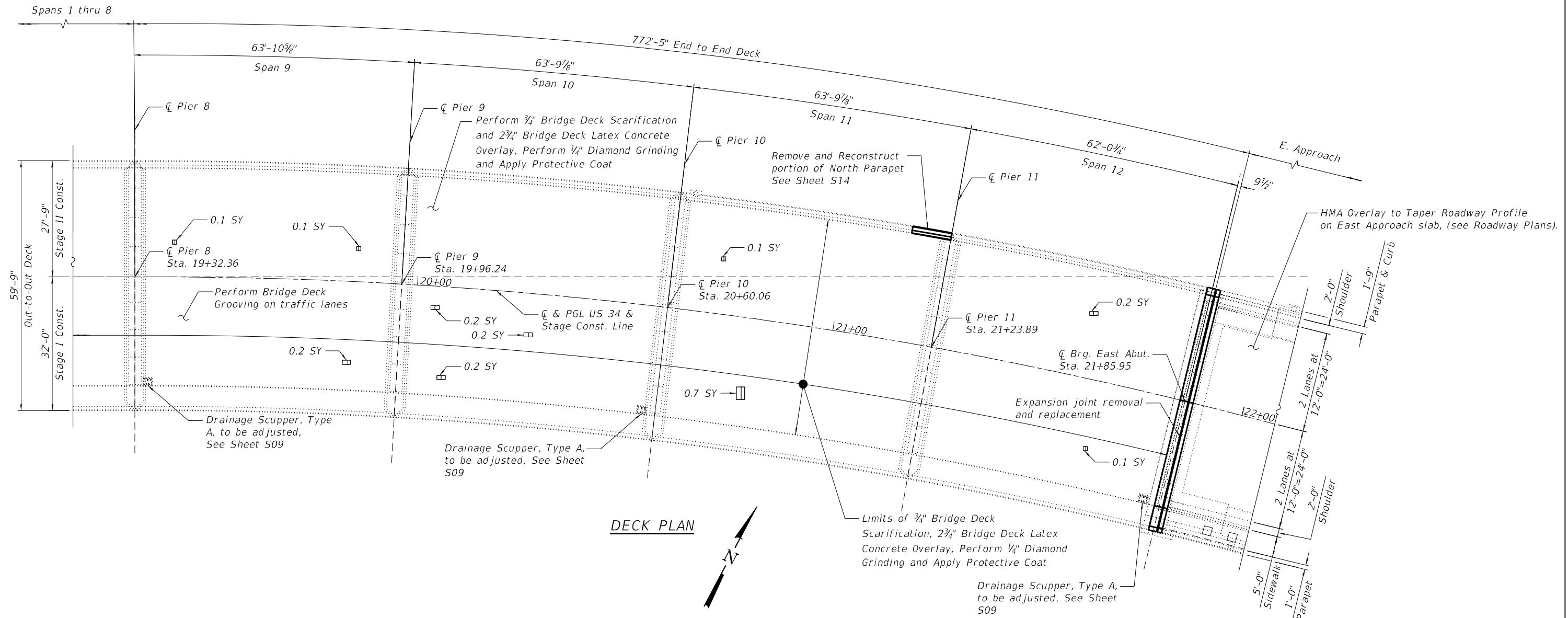
**DECK REPAIR PLAN (SHEET 2 OF 3)  
STRUCTURE NO. 016-0225**

SHEET S12 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	37
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Protective Coat	Sq Yd	1,665
Bridge Deck Grooving (Longitudinal)	Sq Yd	1,357
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq Yd	1,459
Bridge Deck Scarification 3/4"	Sq Yd	1,459
Diamond Grinding (Bridge Section)	Sq Yd	1,347



**DECK PLAN**

\*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 3/4"

**LEGEND**

	*Deck Slab Repair (Partial Depth)
SY	Square Yard

**NOTE:**  
1. For notes, see Sheet S11.

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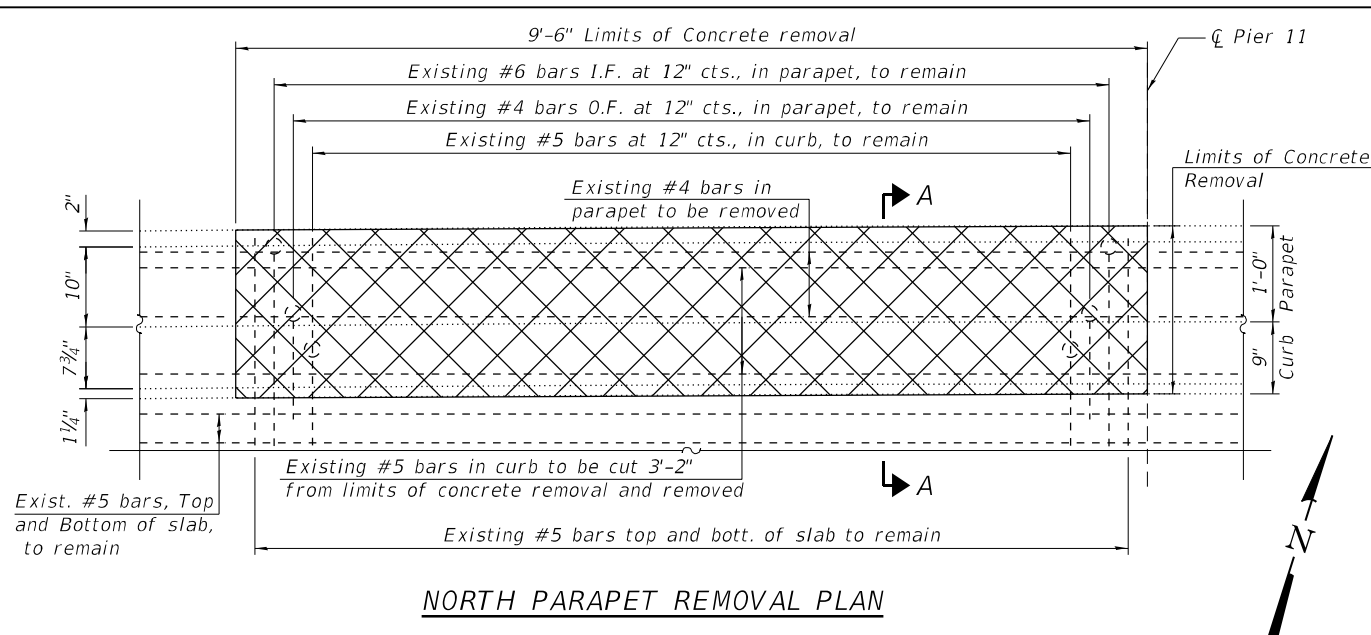
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

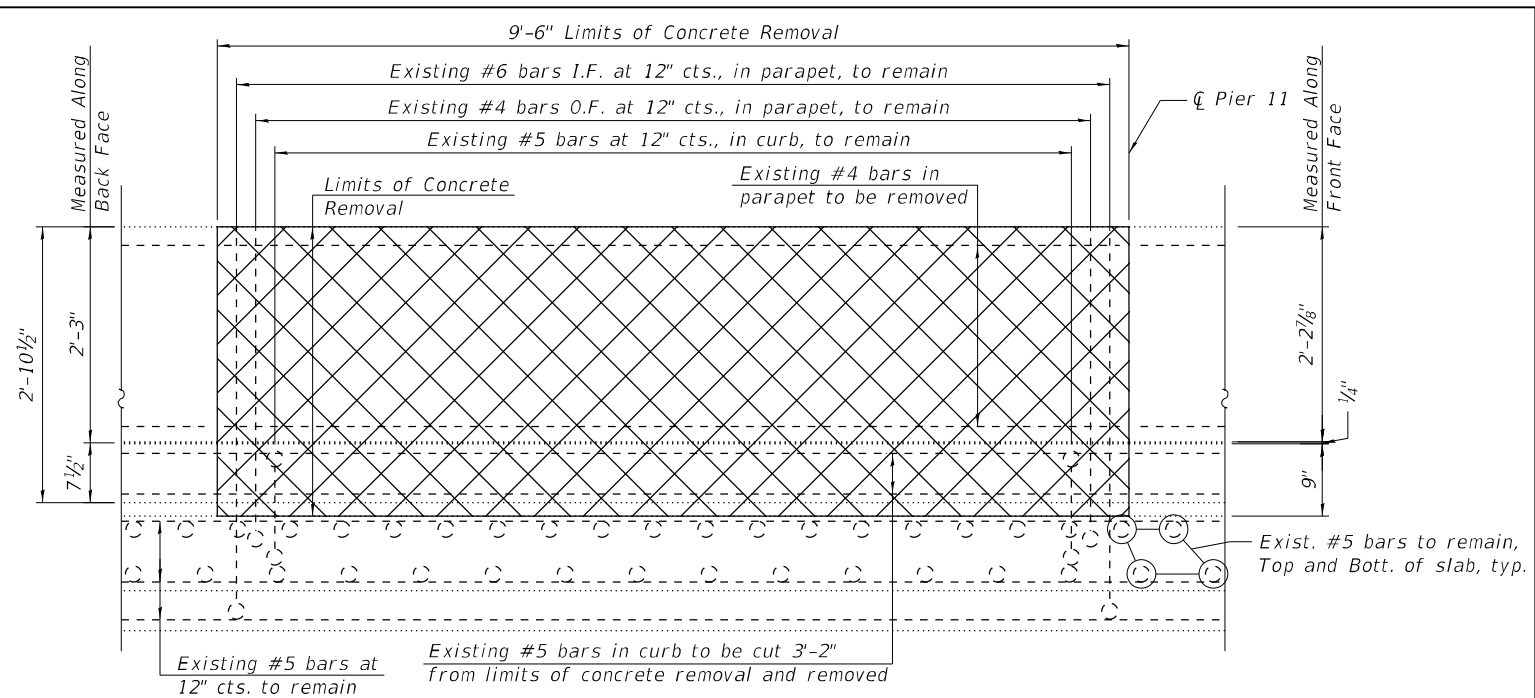
**DECK REPAIR PLAN (SHEET 3 OF 3)  
STRUCTURE NO. 016-0225**

SHEET S13 OF S50 SHEETS

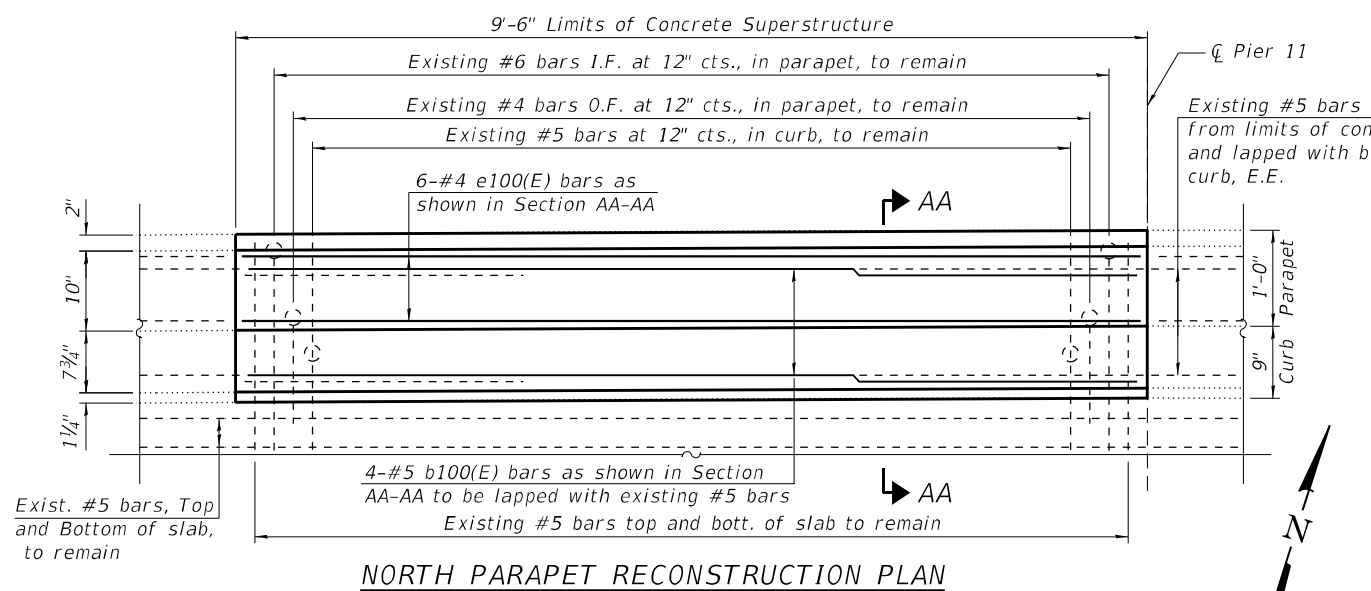
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	38
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



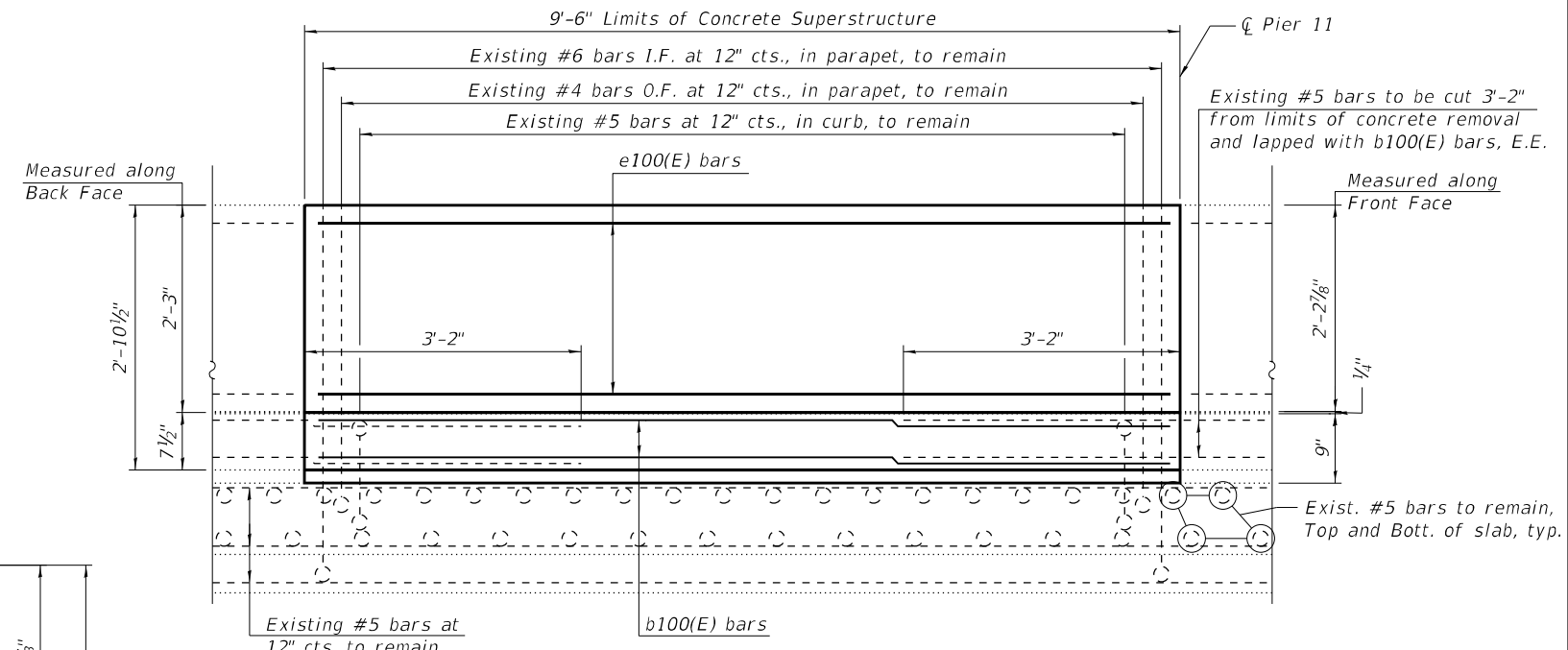
**NORTH PARAPET REMOVAL PLAN**



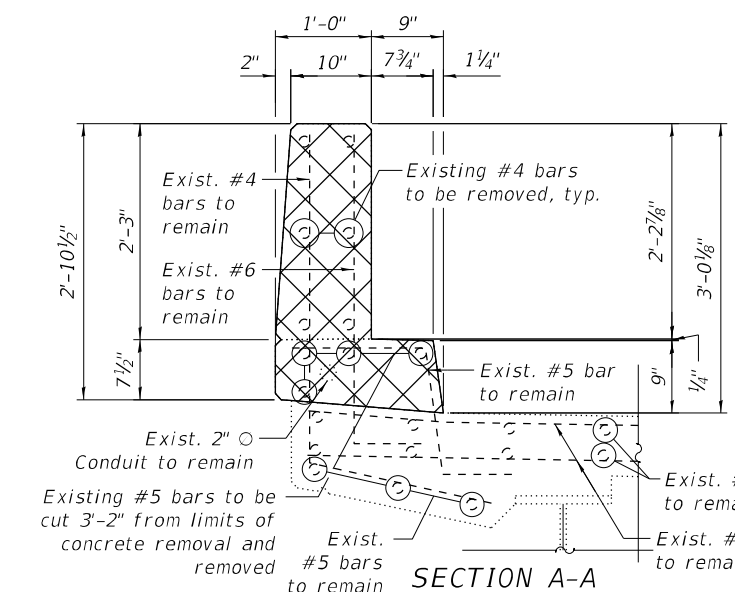
**NORTH PARAPET REMOVAL ELEVATION**  
(Looking North)



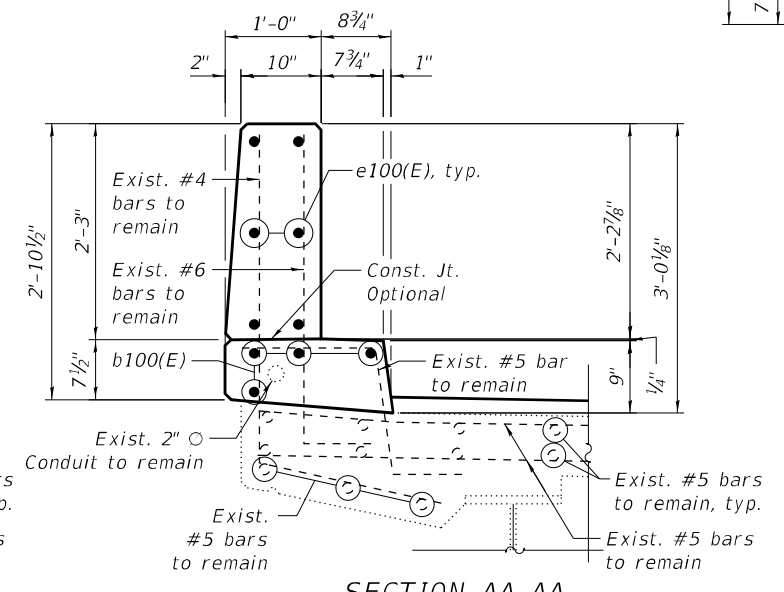
**NORTH PARAPET RECONSTRUCTION PLAN**



**NORTH PARAPET RECONSTRUCTION ELEVATION**  
(Looking North)



**SECTION A-A**



**SECTION AA-AA**

**LEGEND**

- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face
- E.E. Each End

**BILL OF MATERIAL**

Item	No.	Size	Length	Shape
b100(E)	4	#5	9'-2"	—
e100(E)	6	#4	9'-2"	—
Concrete Removal			Cu Yd	1.3
Concrete Superstructure			Cu Yd	1.3
Reinforcement Bars, Epoxy Coated			Pound	80

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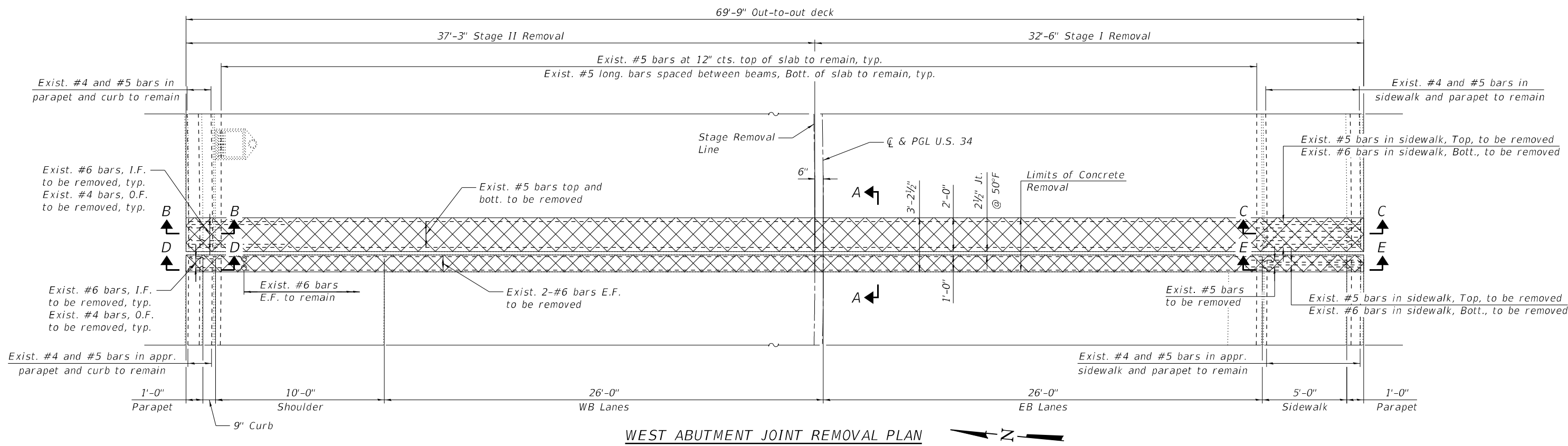
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**STATE OF ILLINOIS**  
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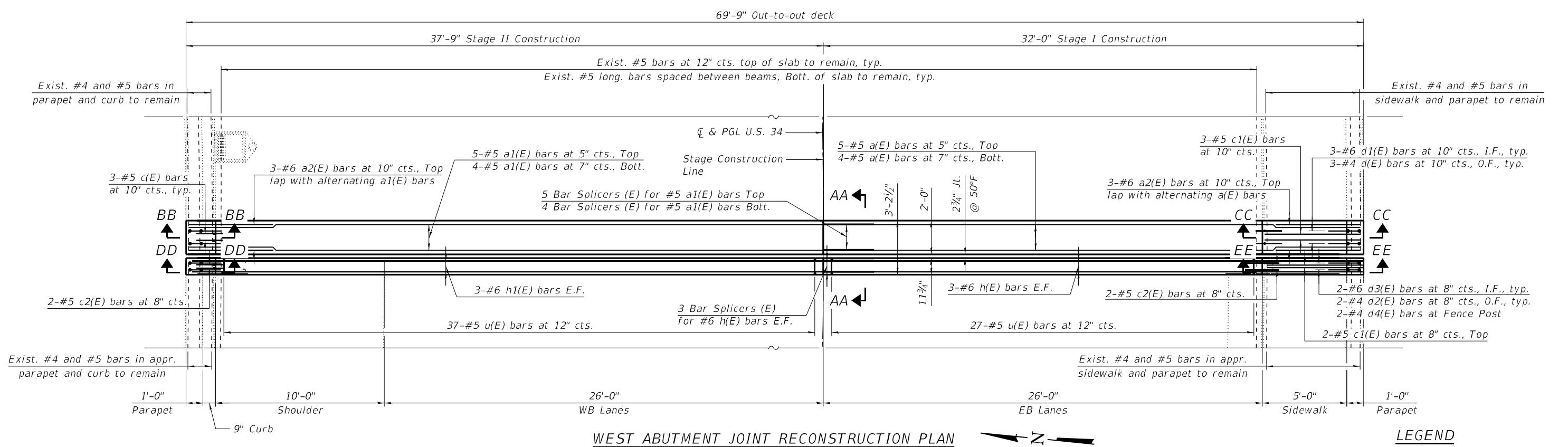
**NORTH PARAPET PARTIAL REMOVAL AND REPLACEMENT**  
**STRUCTURE NO. 016-0225**

SHEET S14 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	39
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



**WEST ABUTMENT JOINT REMOVAL PLAN**



**WEST ABUTMENT JOINT RECONSTRUCTION PLAN**

**LEGEND**

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.F.	Each Face

**NOTES:**

- For Sections A-A, B-B, C-C, AA-AA, BB-BB and CC-CC, see Sheet S16.
- For Sections D-D, E-E, DD-DD and EE-EE, Bar Diagrams, additional Notes and Bill of Material, see Sheet S17.

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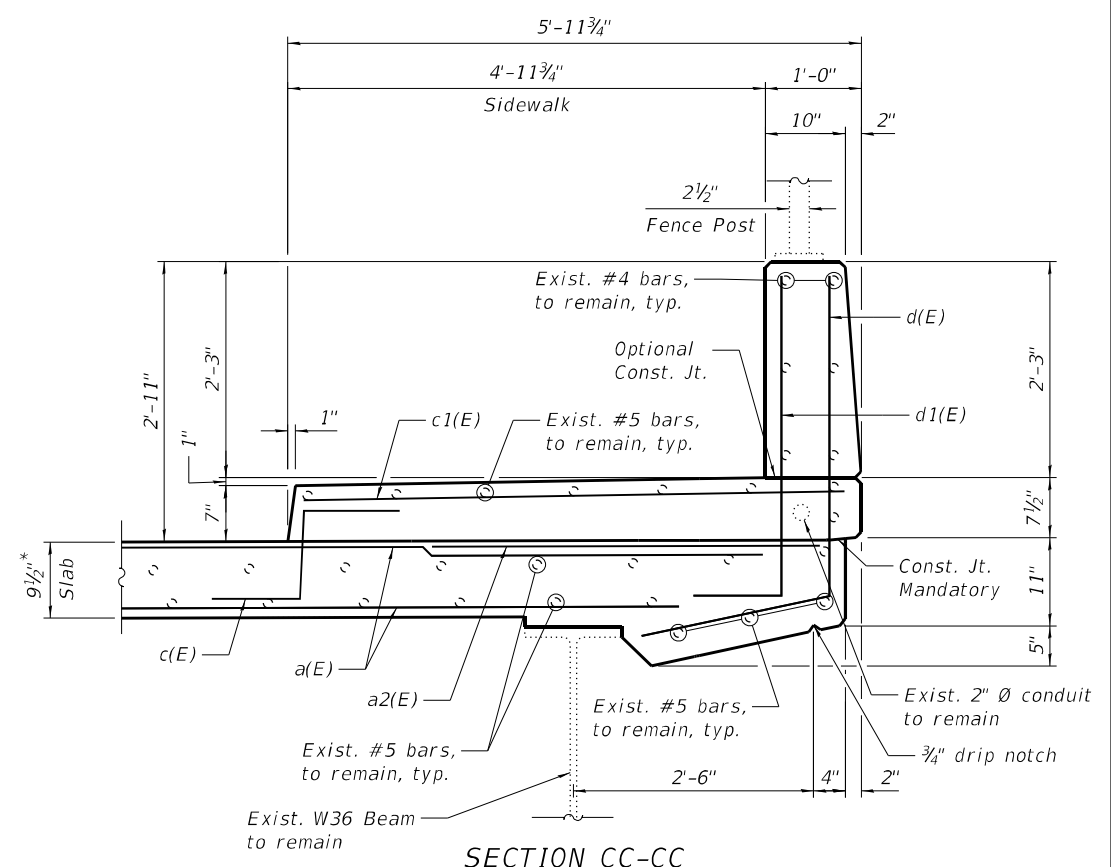
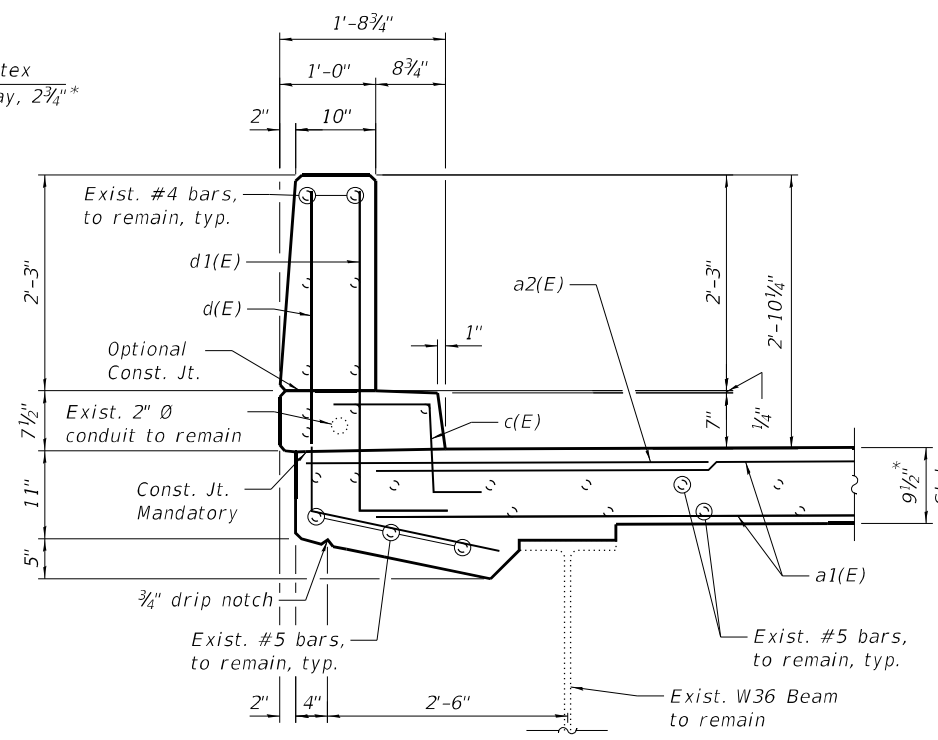
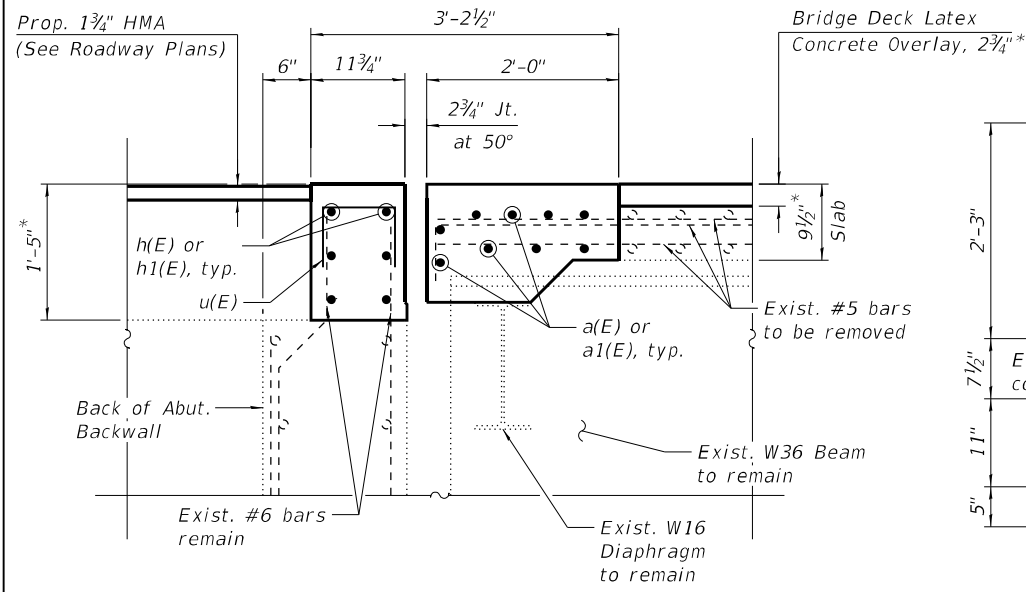
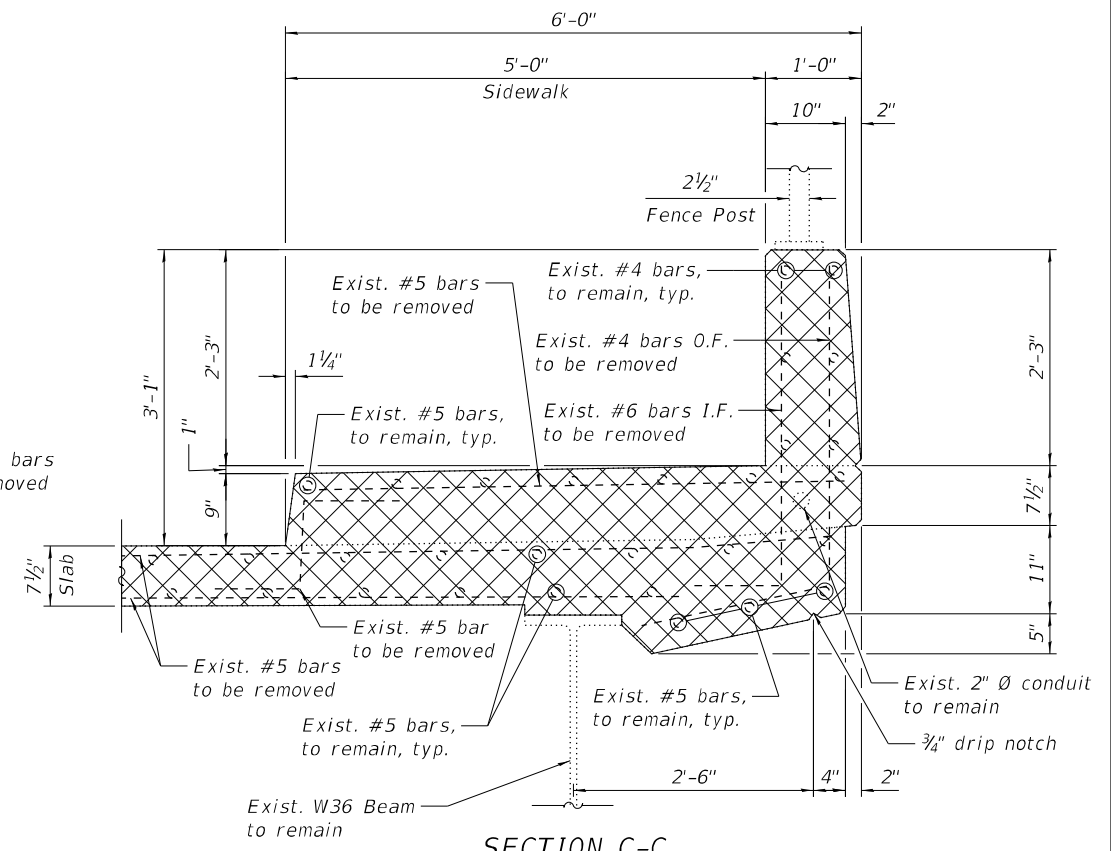
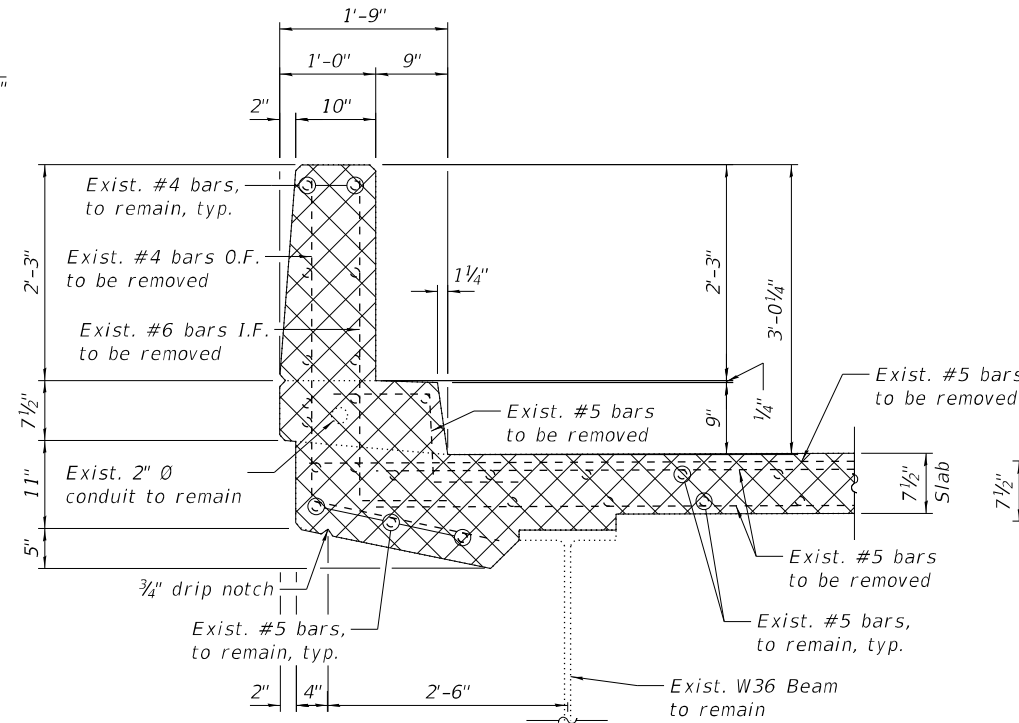
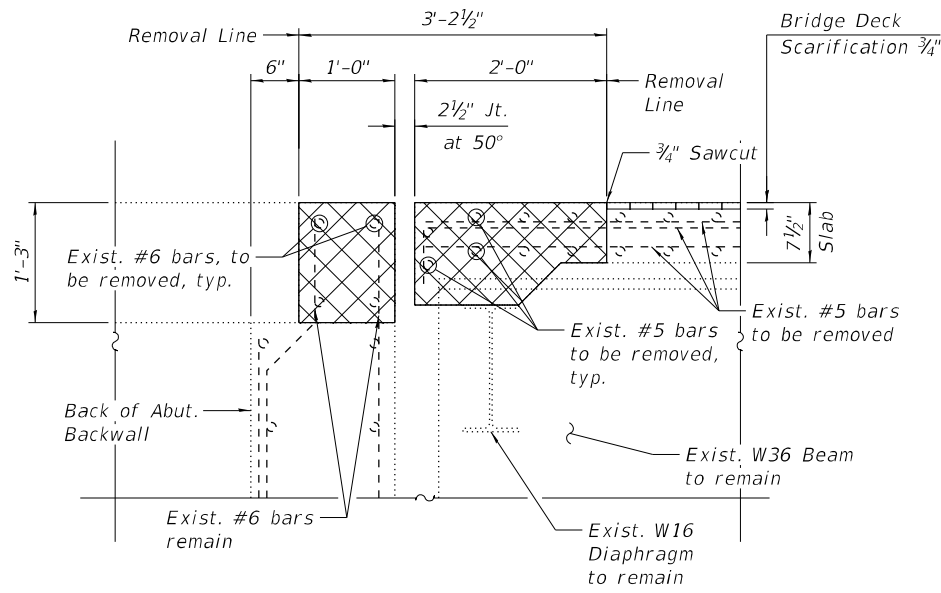
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CHECKED - LAB, MI	REVISIONS -	
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**W. ABUT. EXP. JT. REMOVAL & REPLACEMENT (SHT. 1 OF 3)  
STRUCTURE NO. 016-0225**

SHEET S15 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	40
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



**NOTES:**

- For Legend, see Sheet S15.
- For Bar diagrams, additional Notes and Bill of Material, see Sheet S17.

\*Before 1/4" Diamond Grinding

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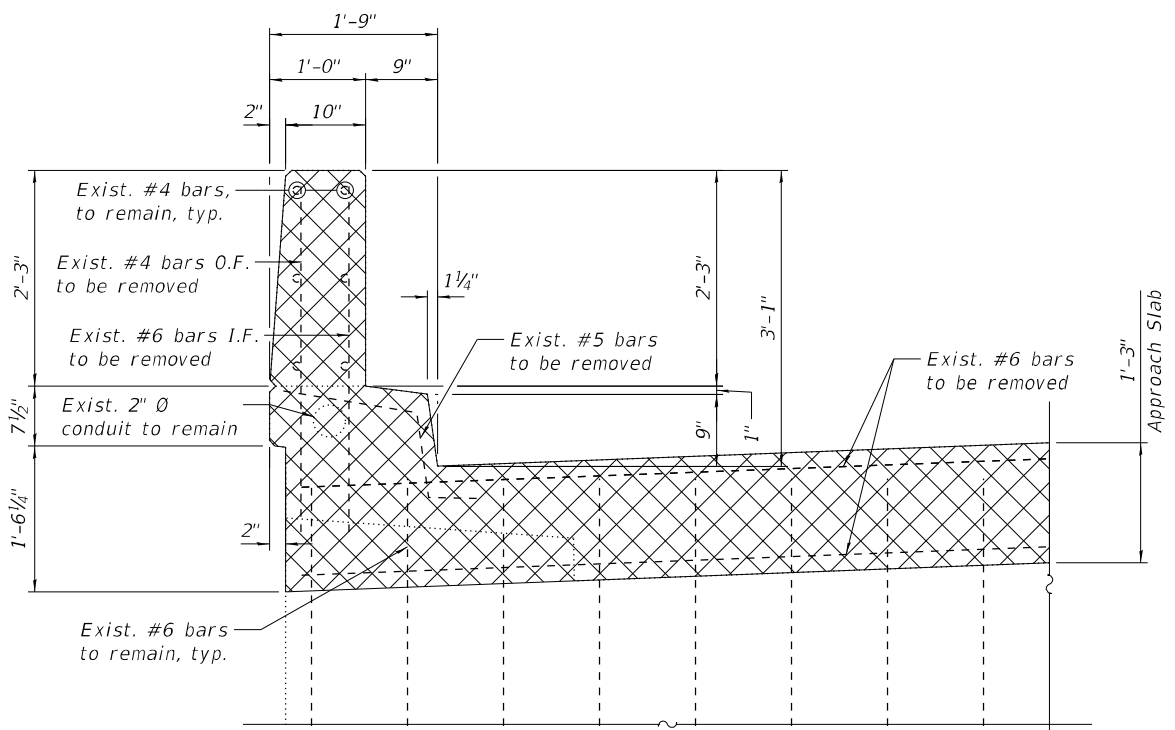
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

W. ABUT. EXP. JT. REMOVAL & REPLACEMENT (SHT. 2 OF 3)  
STRUCTURE NO. 016-0225

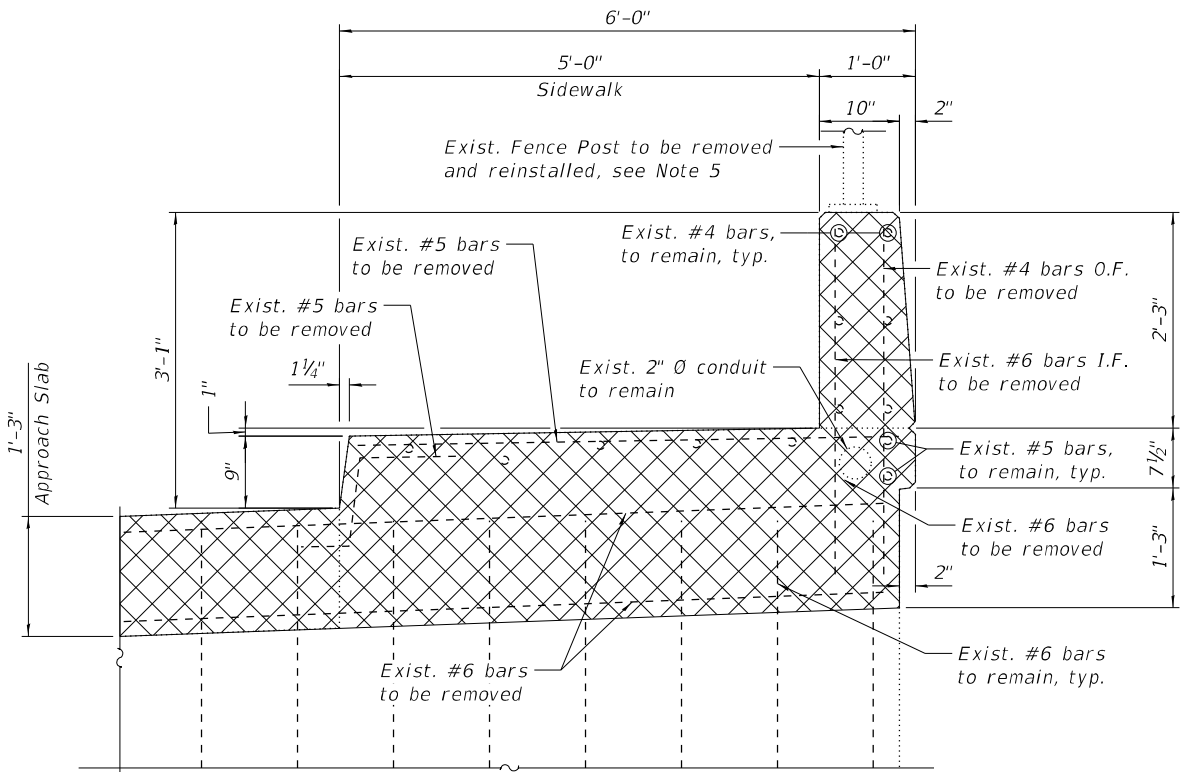
SHEET S16 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	41
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

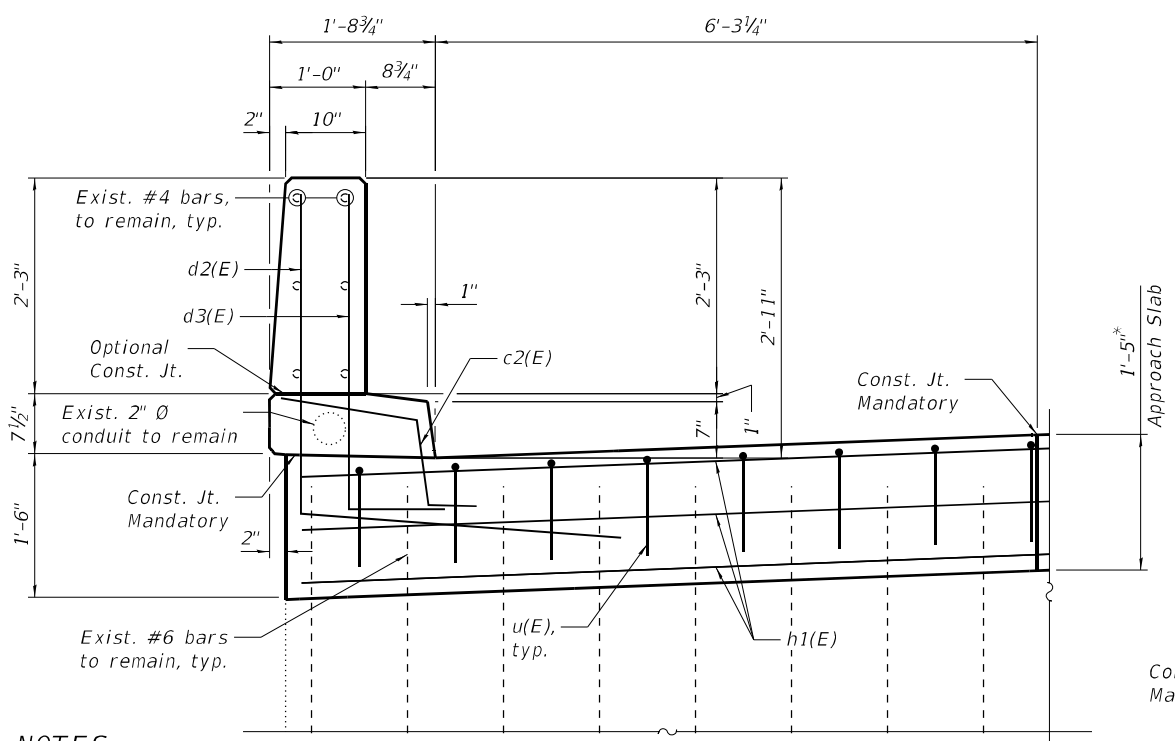
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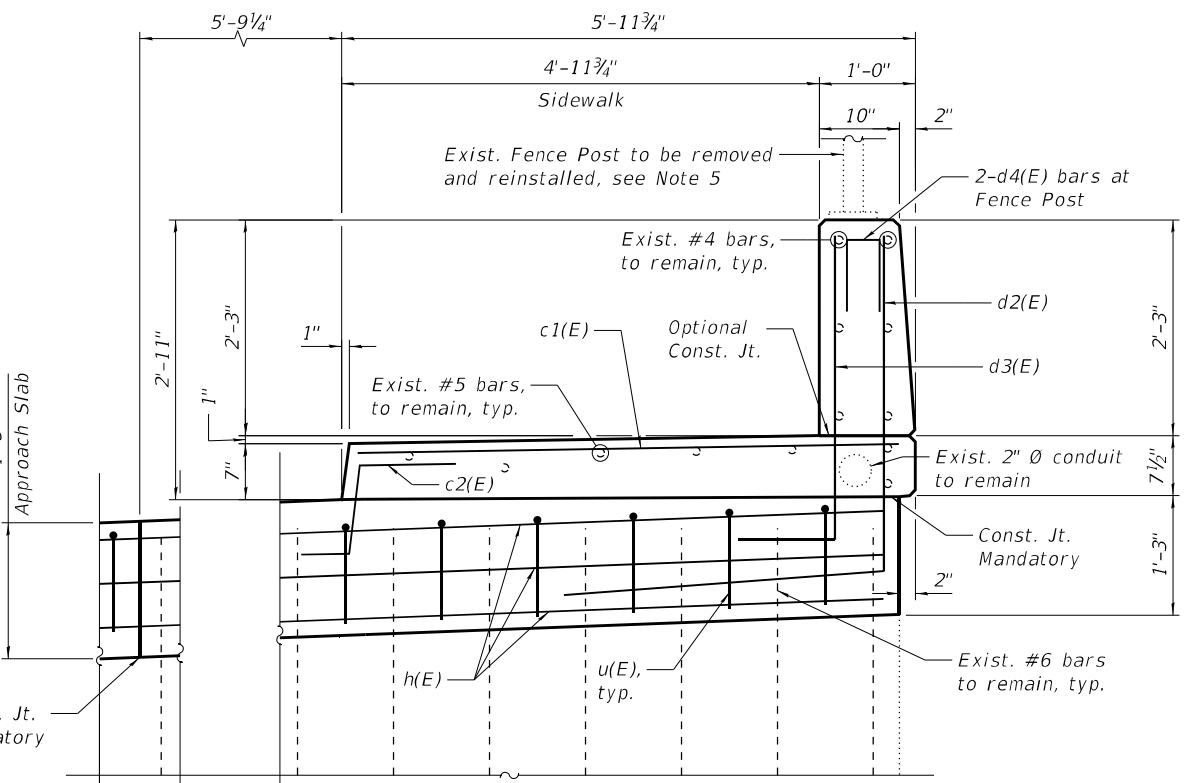
SECTION D-D



SECTION E-E



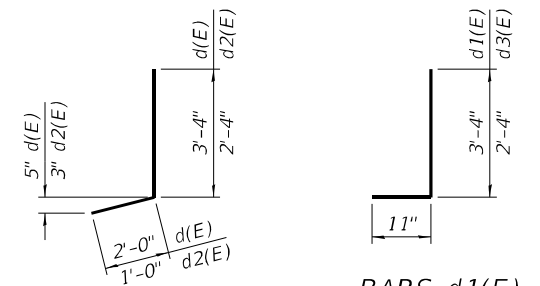
SECTION DD-DD



SECTION EE-EE

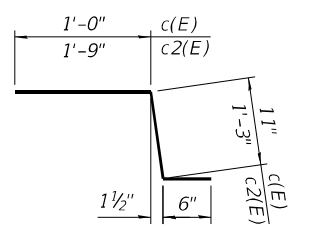
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	9	#5	31'-8"	
a1(E)	9	#5	37'-4"	
a2(E)	6	#6	5'-0"	
c(E)	6	#5	2'-5"	
c1(E)	5	#5	5'-8"	
c2(E)	4	#5	3'-6"	
d(E)	6	#4	5'-4"	
d1(E)	6	#6	4'-3"	
d2(E)	4	#4	3'-4"	
d3(E)	4	#6	3'-3"	
d4(E)	2	#4	2'-2"	
h(E)	6	#6	31'-8"	
h1(E)	6	#6	37'-4"	
u(E)	64	#5	2'-9"	
Concrete Removal			Cu Yd	8.7
Concrete Superstructure			Cu Yd	9.9
Protective Coat			Sq Yd	25
Reinforcement Bars, Epoxy Coated			Pound	1,650

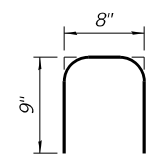


BAR d(E) & d2(E)

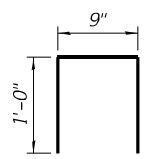
BARS d1(E) & d3(E)



BAR c(E) & c2(E)



BAR d4(E)



BAR u(E)

**NOTES:**

- For Legend, see Sheet S15.
- For preformed joint strip details, see Sheet S31.
- For bar splicer assembly details, see Sheet S50.
- Removal and disposal of the existing expansion joint is included with Concrete Removal.
- For Fence Post anchor bolt details, see Sheet S26.

\*Before 1/4" Diamond Grinding



USER NAME =	DESIGNED - DEO	REVISED -
PILOT SCALE =	CHECKED - LAB, MI	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

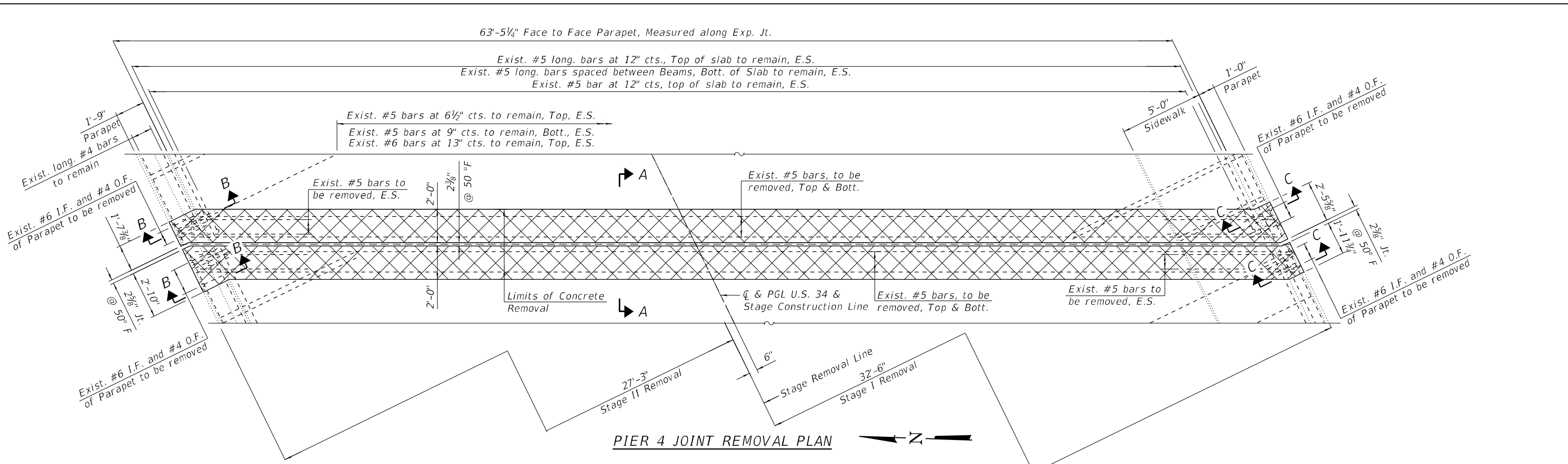
W. ABUT. EXP. JT. REMOVAL & REPLACEMENT (SHT. 3 OF 3)  
 STRUCTURE NO. 016-0225

SHEET S17 OF S50 SHEETS

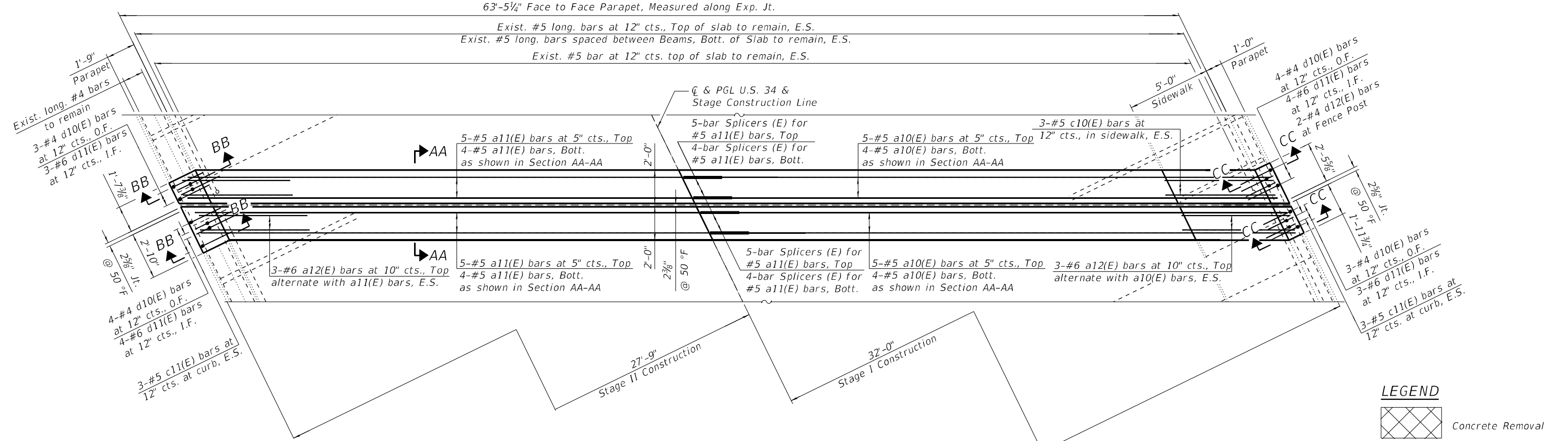
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	42
CONTRACT NO. 62R99			ILLINOIS FED. AID PROJECT	



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PIER 4 JOINT REMOVAL PLAN



PIER 4 JOINT RECONSTRUCTION PLAN

**LEGEND**

	Concrete Removal
E.S.	Each Side
I.F.	Inside Face
O.F.	Outside Face

**NOTE:**  
 1. For Sections A-A, B-B, C-C, AA-AA, BB-BB and CC-CC, Bar diagrams, additional notes and Bill of Material see Sheet S19.



USER NAME =	DESIGNED - FL	REVISED -
	CHECKED - LAB, MI	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

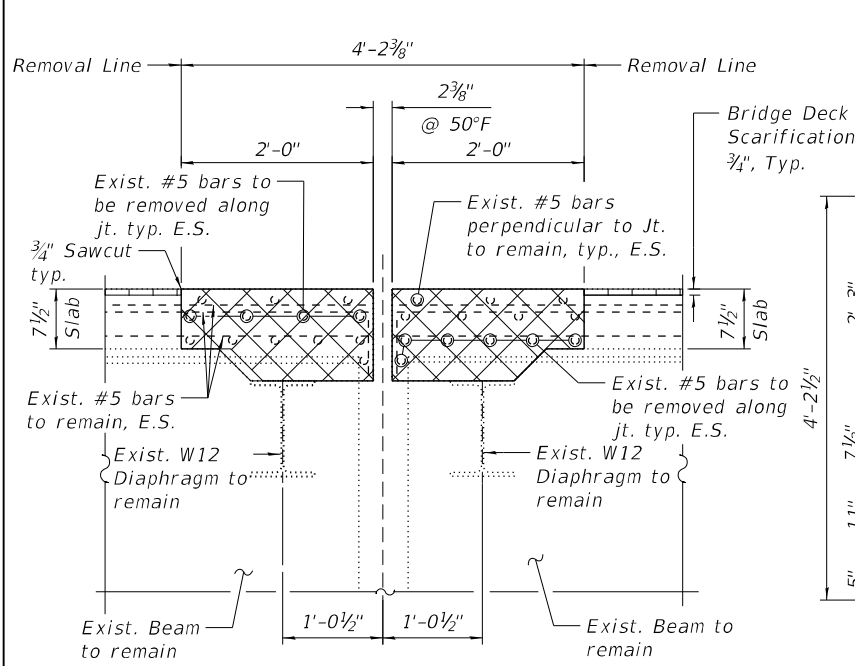
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 STRUCTURE NO. 016-0225

SHEET S18 OF S50 SHEETS

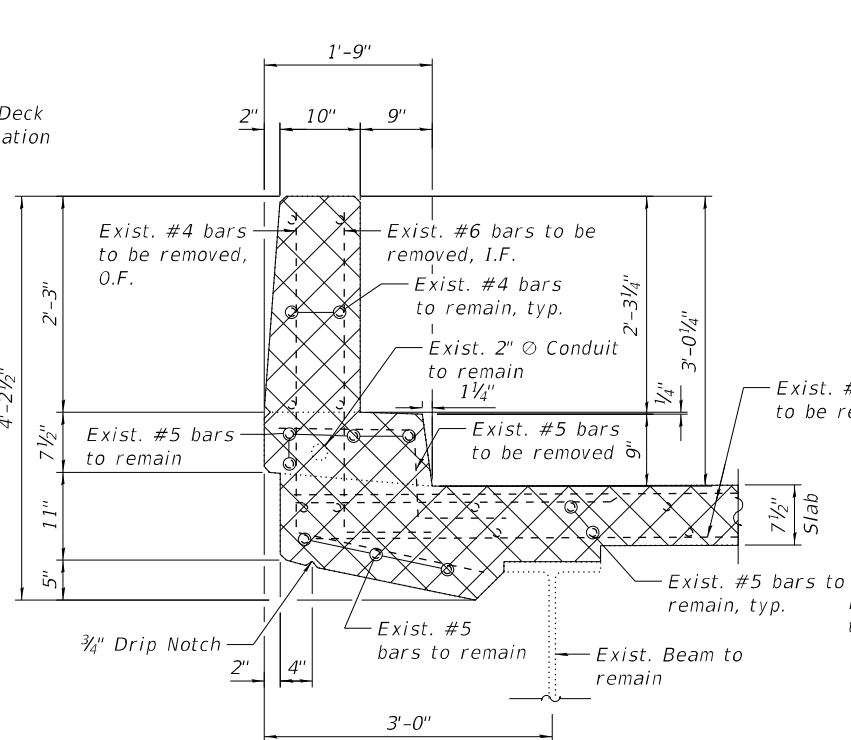
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CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

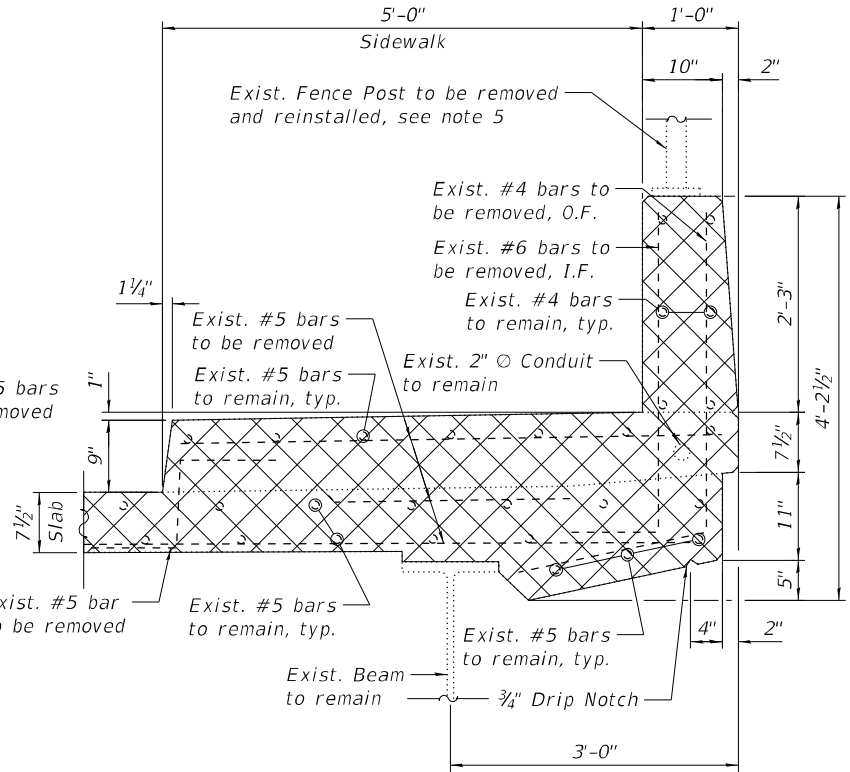
Bar	No.	Size	Length	Shape
a10(E)	18	#5	35'-3"	—
a11(E)	18	#5	30'-7"	—
a12(E)	12	#6	5'-0"	—
c10(E)	6	#5	5'-8"	—
c11(E)	12	#5	2'-10"	⌒
d10(E)	14	#4	5'-7"	L
d11(E)	14	#6	4'-5"	L
d12(E)	2	#4	2'-2"	⌒
Concrete Removal			Cu Yd	10.1
Concrete Superstructure			Cu Yd	11.6
Protective Coat			Sq Yd	34
Reinforcement Bars, Epoxy Coated			Pound	1550



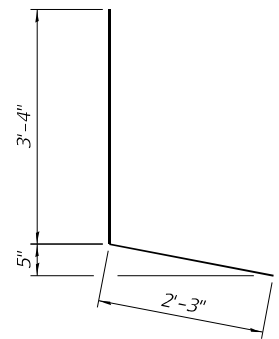
**SECTION A-A**



**SECTION B-B**

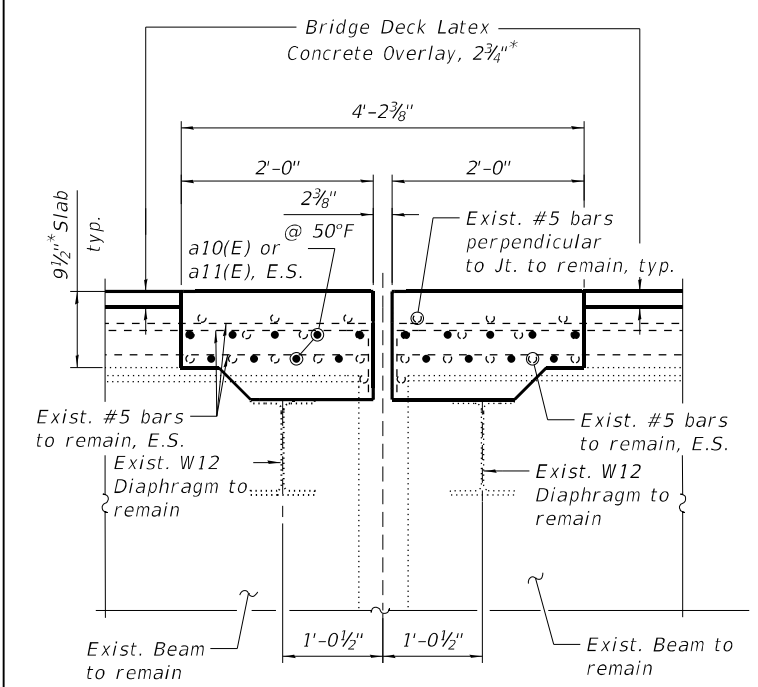


**SECTION C-C**

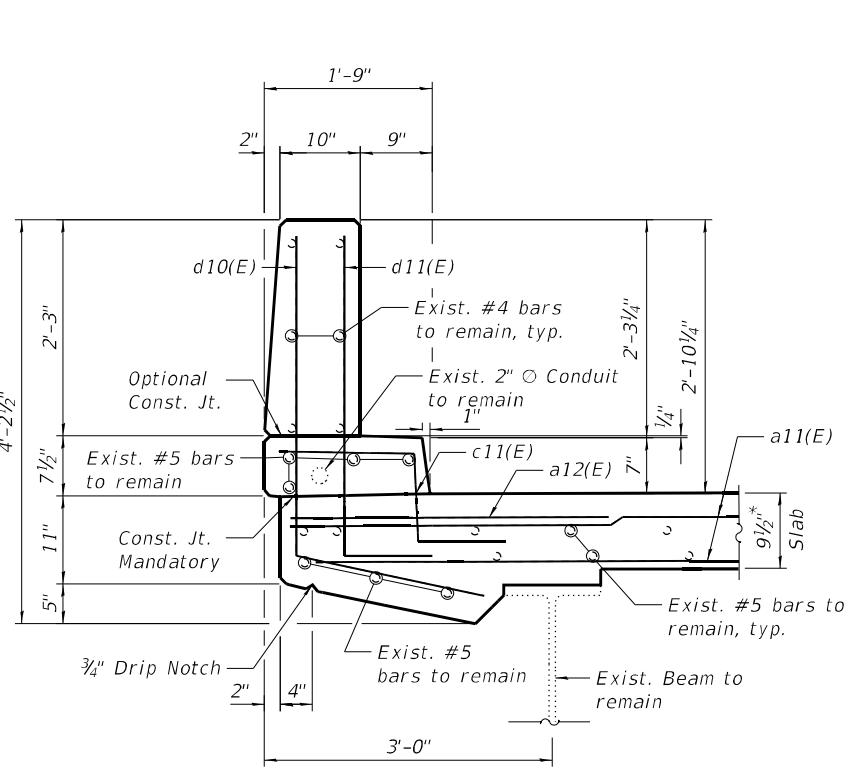


**d10(E)**

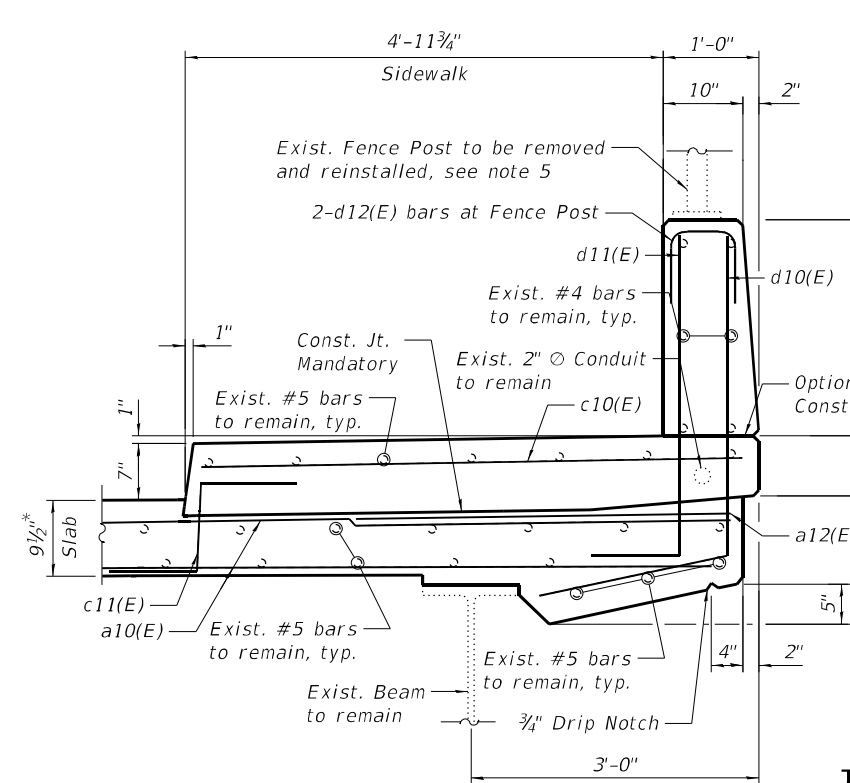
**d11(E)**



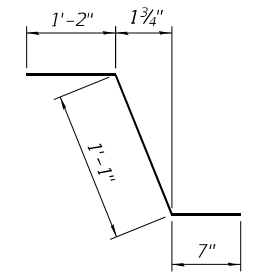
**SECTION AA-AA**



**SECTION BB-BB**



**SECTION CC-CC**



**d12(E)**

**c11(E)**

**NOTES:**

1. For legend, see Sheet S18.
2. For preformed joint strip seal details, see Sheet S31.
3. For bar splicer assembly details, see Sheet S50.
4. Removal and disposal of the existing expansion joints is included with Concrete Removal.
5. For Fence Post anchor bolt details, see Sheet S26.

\*Before 1/4" Diamond Grinding

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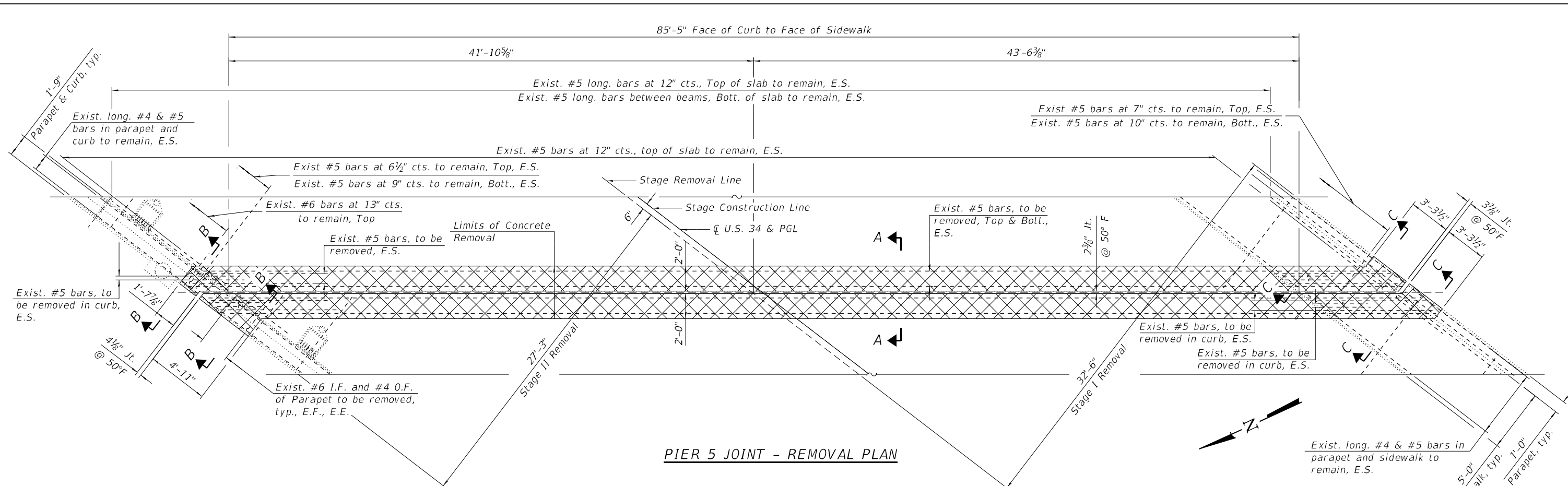
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 4 EXP. JT. REMOVAL & REPLACEMENT (SHT. 2 OF 2)  
STRUCTURE NO. 016-0225**

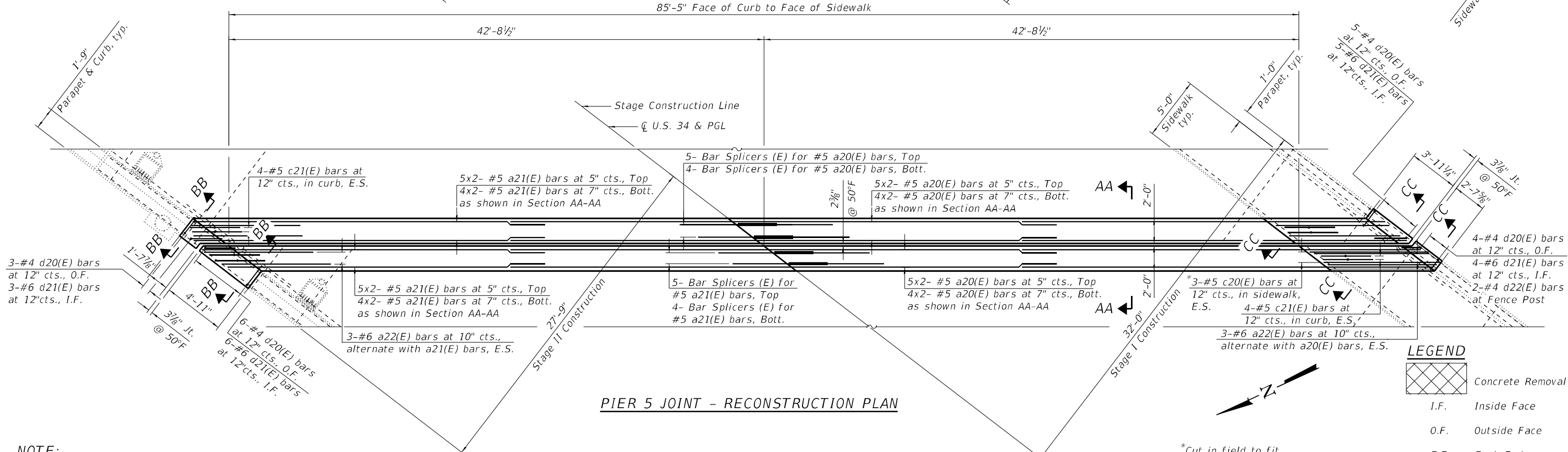
SHEET S19 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	44
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT



PIER 5 JOINT - REMOVAL PLAN



PIER 5 JOINT - RECONSTRUCTION PLAN

**NOTE:**  
 1. For Sections A-A, B-B, C-C, AA-AA, BB-BB, and CC-CC, Bar Diagrams, additional notes and bill of material, see Sheet S21.

**LEGEND**

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.E.	Each End
E.F.	Each Face
E.S.	Each Side



USER NAME =	DESIGNED - JMI	REVISED -
PILOT SCALE =	CHECKED - LAB, MI	REVISED -
PILOT DATE =	DRAWN - JMI	REVISED -
	CHECKED - LAB, MI	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER 5 EXP. JT. REMOVAL & REPLACEMENT (SHT. 1 OF 2)  
 STRUCTURE NO. 016-0225

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	45
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

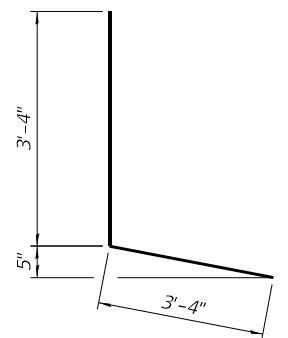
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**BILL OF MATERIAL**

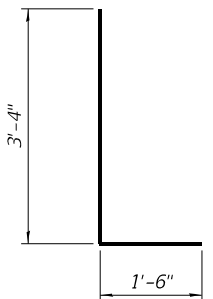
Bar	No.	Size	Length	Shape
a20(E)	36	#5	27'-10"	—
a21(E)	36	#5	24'-5"	—
a22(E)	12	#6	5'-0"	—
c20(E)	6	#5	9'-5"	—
c21(E)	16	#5	2'-10"	—
d20(E)	18	#4	6'-8"	L
d21(E)	18	#6	4'-10"	L
d22(E)	2	#4	2'-2"	□
Concrete Removal			Cu Yd	14.7
Concrete Superstructure			Cu Yd	17
Protective Coat			Sq Yd	47
Reinforcement Bars, Epoxy Coated			Pound	2380

**MIN BAR LAP**

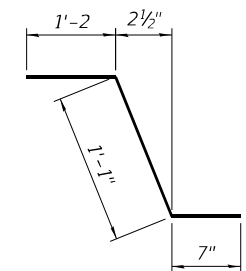
#5 3'-6"



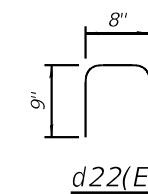
d20(E)



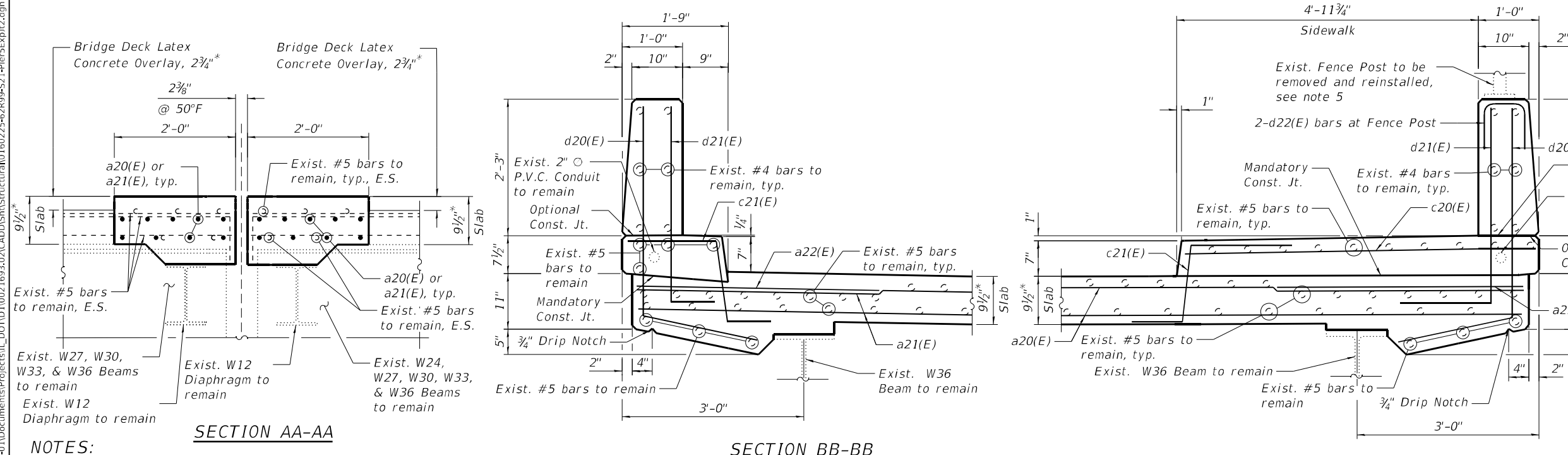
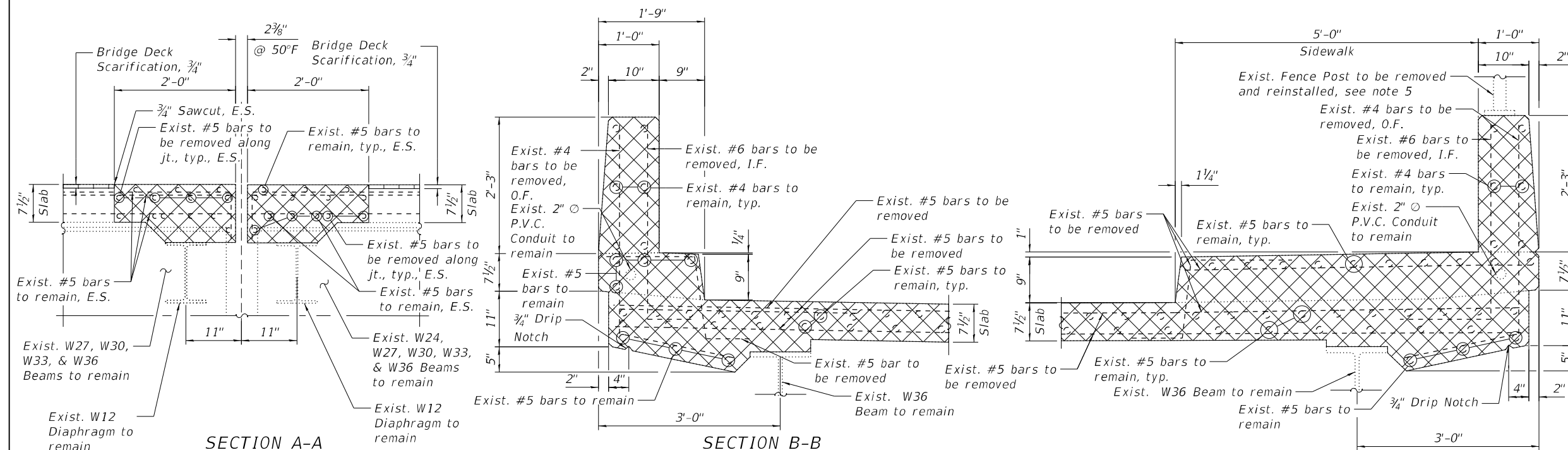
d21(E)



c21(E)



d22(E)



**NOTES:**

1. For legend, see Sheet S20.
2. For preformed joint strip seal details, see Sheet S31.
3. For bar splicer assembly details, see Sheet S50.
4. Removal and disposal of the existing expansion joints is included with Concrete Removal.
5. For Fence Post anchor bolt details, see Sheet S26.

\*Before 1/4" Diamond Grinding

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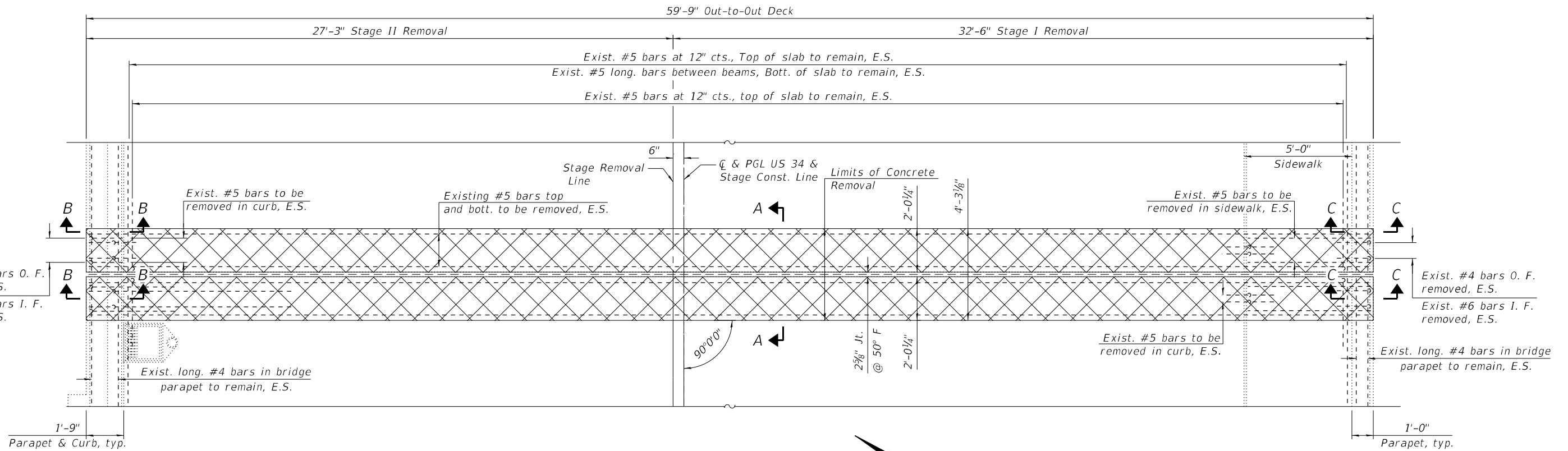


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PLOT SCALE =	CHECKED - LAB, MI	REVISED -
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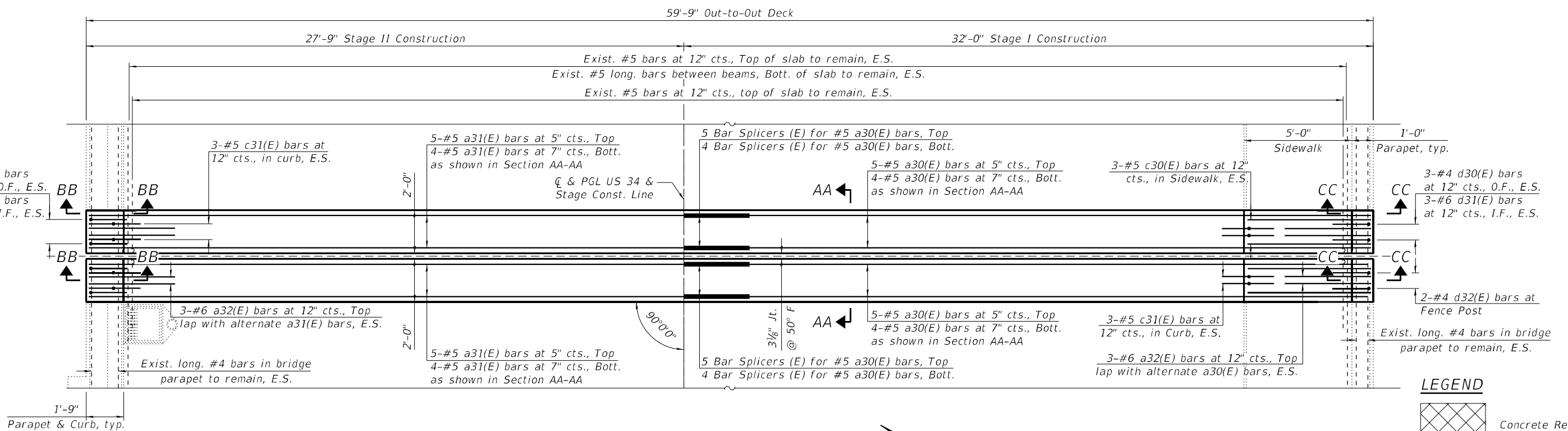
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 5 EXP. JT. REMOVAL & REPLACEMENT (SHT. 2 OF 2)  
 STRUCTURE NO. 016-0225**

F.A.P. RTE. 0311	SECTION FAP 0311 22 BJ	COUNTY COOK	TOTAL SHEETS 83	SHEET NO. 46
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



PIER 6 JOINT REMOVAL PLAN



PIER 6 JOINT RECONSTRUCTION PLAN

**LEGEND**

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face
E.S.	Each Side

**NOTE:**

- For Sections A-A, B-B, C-C, AA-AA, BB-BB, and CC-CC, Bar Diagrams, Notes and Bill of Materials see Sheet S23.

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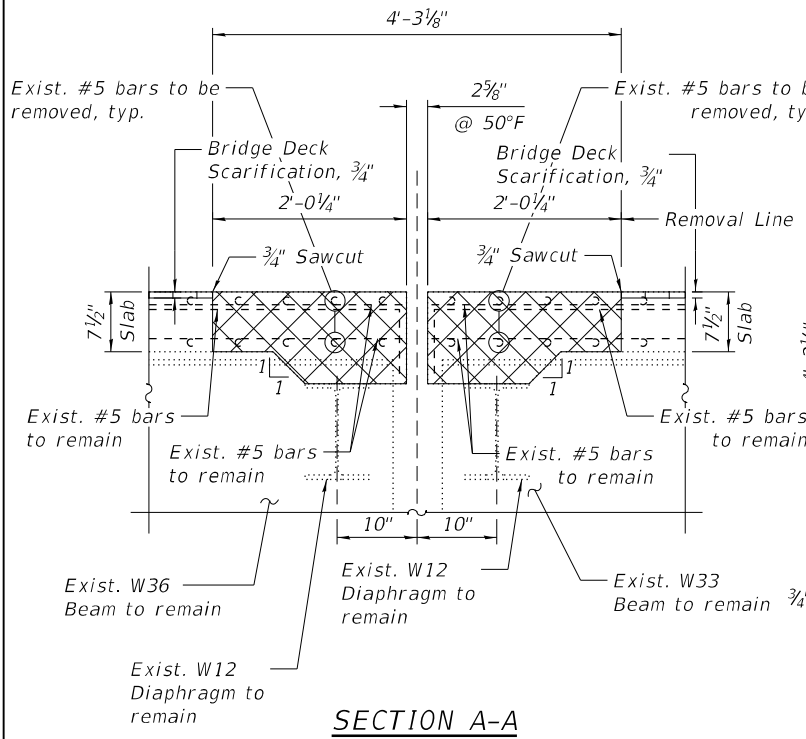
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PILOT DATE =	DRAWN - LR	REVISED -
	CHECKED - LAB, MI	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

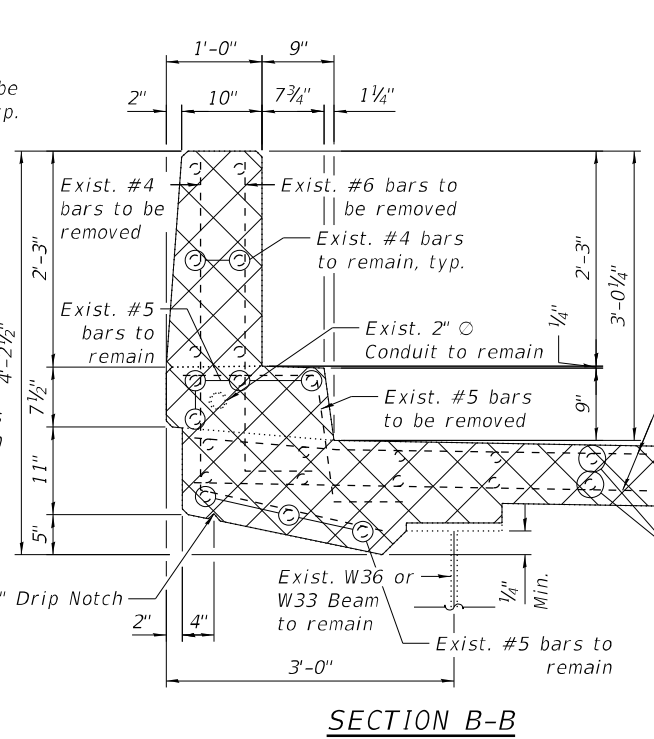
PIER 6 EXP. JT. REMOVAL & REPLACEMENT (SHT. 1 OF 2)  
STRUCTURE NO. 016-0225

SHEET S22 OF S50 SHEETS

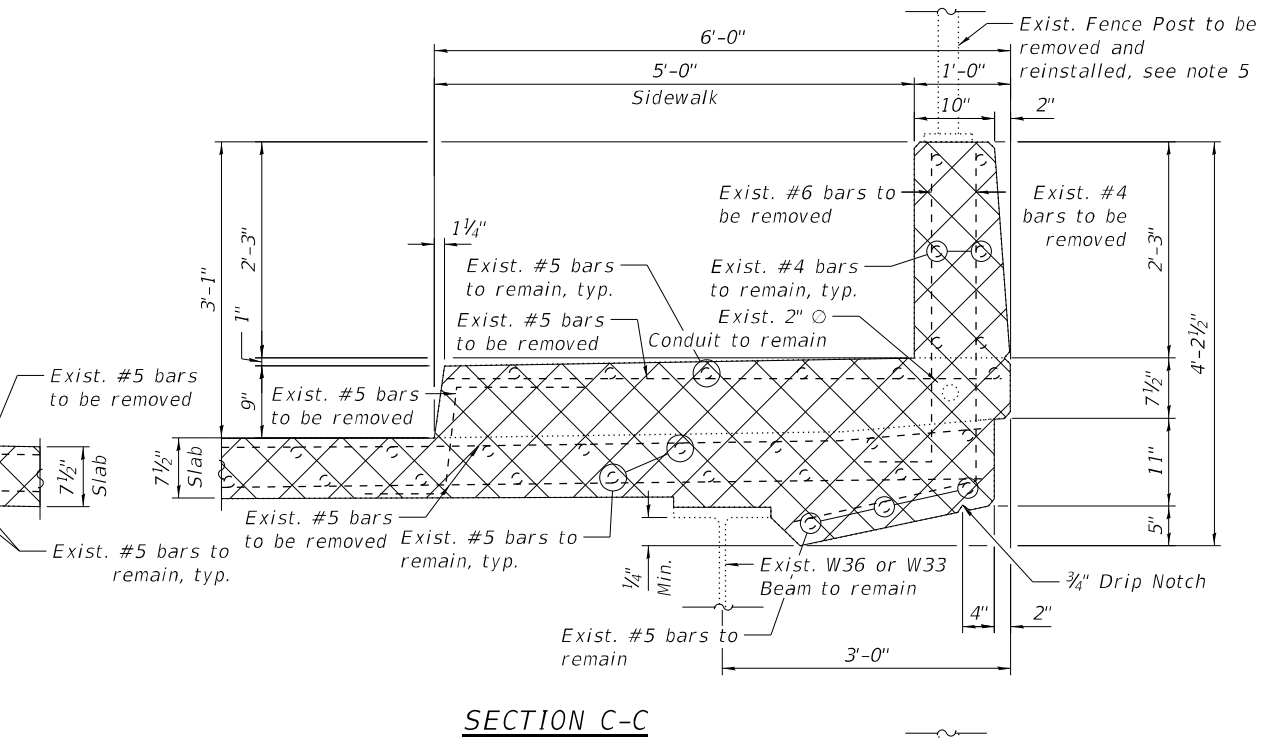
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	47
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



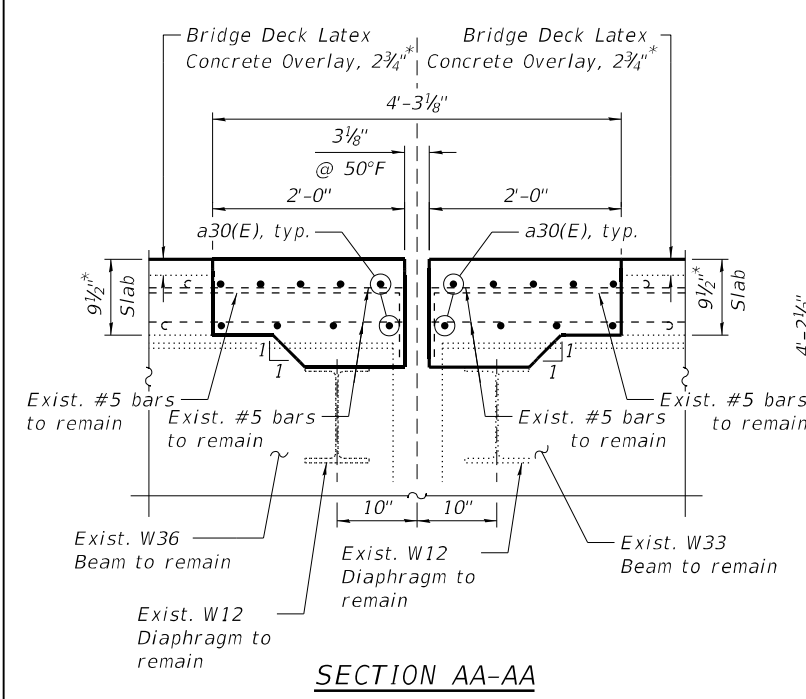
SECTION A-A



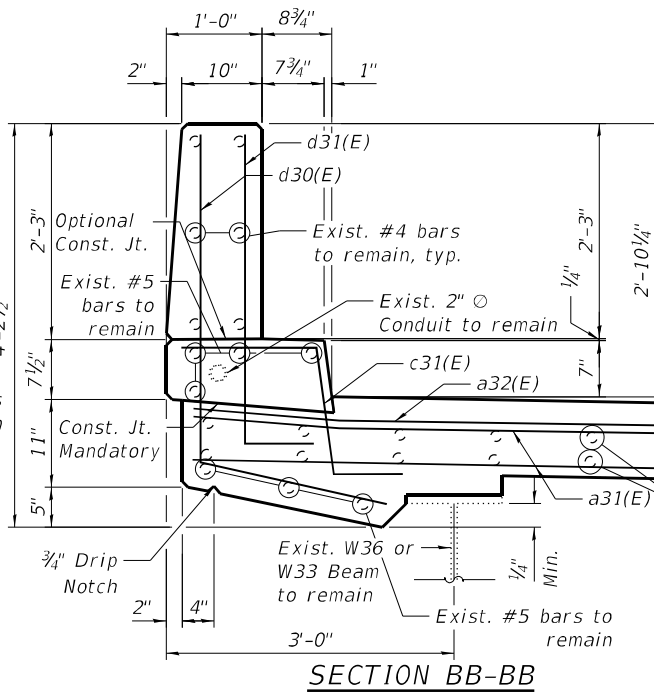
SECTION B-B



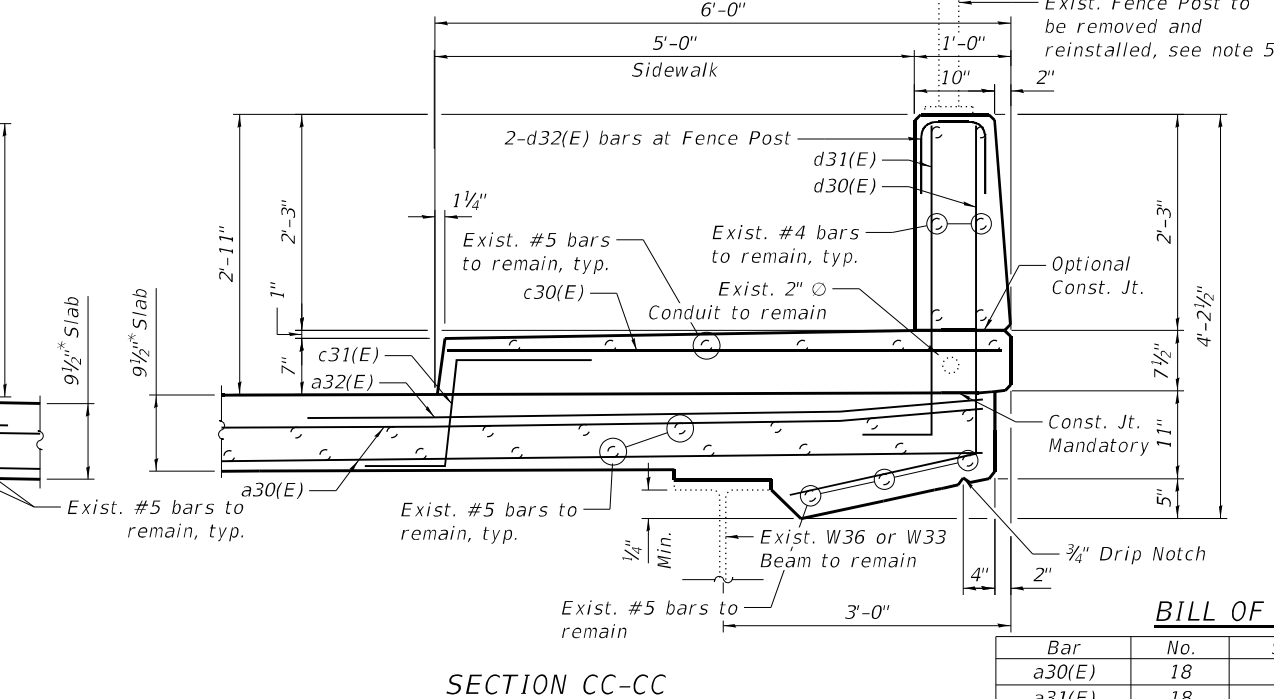
SECTION C-C



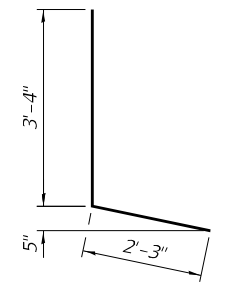
SECTION AA-AA



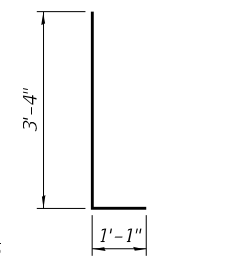
SECTION BB-BB



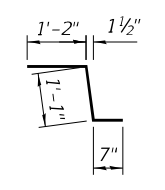
SECTION CC-CC



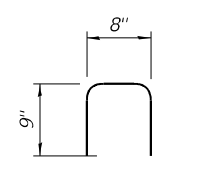
BAR d30(E)



BAR d31(E)



BAR c31(E)



BAR d32(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	18	#5	31'-8"	—
a31(E)	18	#5	27'-5"	—
a32(E)	12	#6	5'-0"	—
c30(E)	6	#5	5'-8"	—
c31(E)	12	#5	2'-10"	U
d30(E)	12	#4	5'-7"	L
d31(E)	12	#6	4'-5"	L
d32(E)	2	#4	2'-2"	U
Concrete Removal			Cu Yd	9.1
Concrete Superstructure			Cu Yd	10.5
Protective Coat			Sq Yd	31
Reinforcement Bars, Epoxy Coated			Pound	1400

NOTES:

- For Legend, see Sheet S22.
- For Prefomed Joint Strip Seal Details, see Sheet S31.
- For Bar Splicer Assembly Details, see Sheet S50.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.
- For Fence Post anchor bolt details, see Sheet S26.

\*Before 1/4" Diamond Grinding

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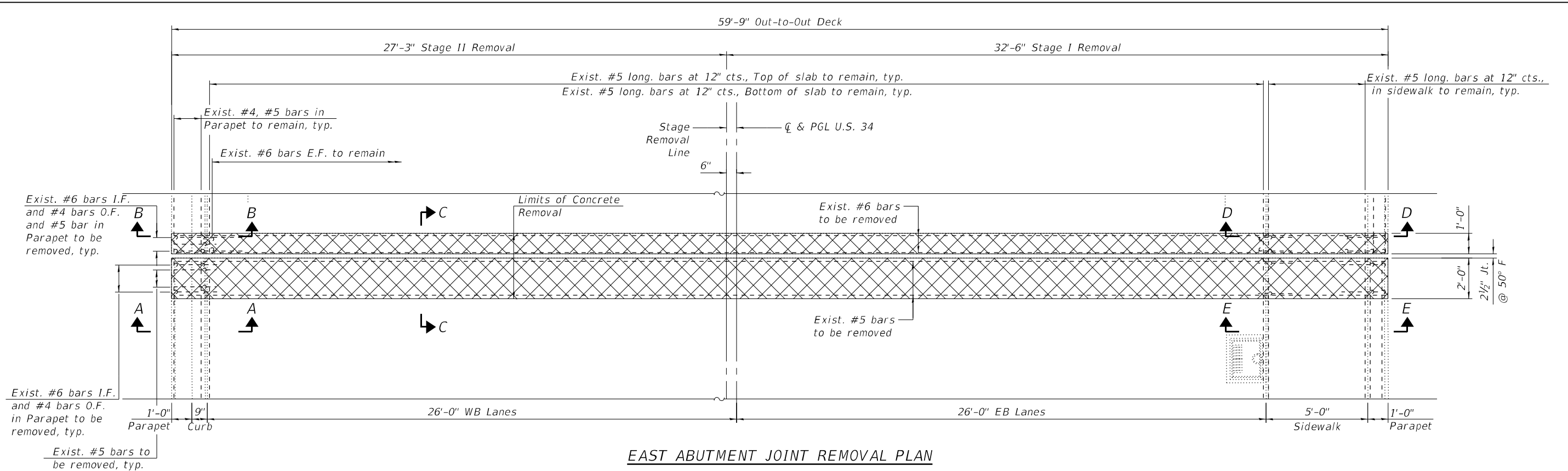
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

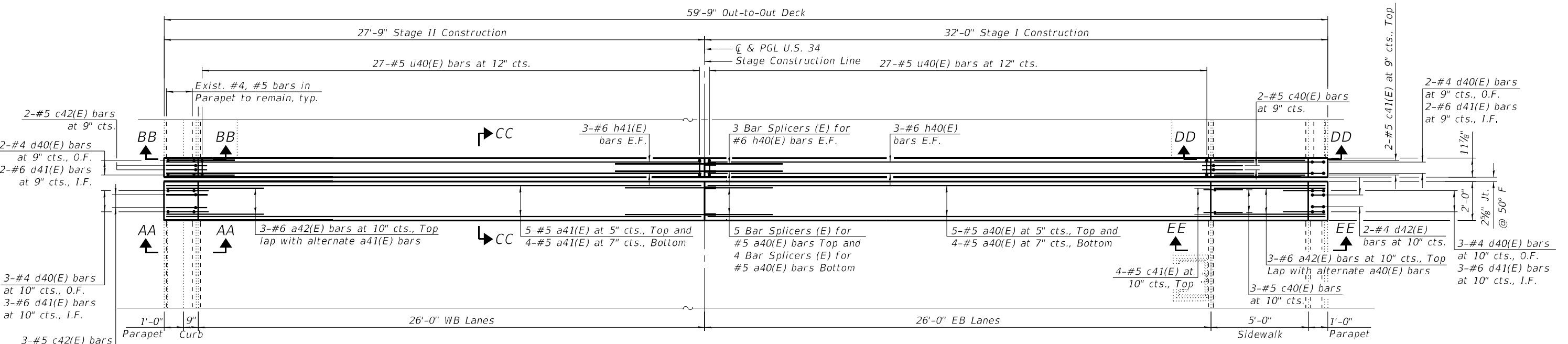
PIER 6 EXP. JT. REMOVAL & REPLACEMENT (SHT. 2 OF 2)  
STRUCTURE NO. 016-0225

SHEET S23 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	48
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				





**EAST ABUTMENT JOINT REMOVAL PLAN**



**EAST ABUTMENT JOINT RECONSTRUCTION PLAN**

**LEGEND**

-  Concrete Removal
-  Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)
- E.F. Each Face
- I.F. Inside Face
- O.F. Outside Face

**NOTES:**

1. For Sections A-A, AA-AA, C-C, CC-CC, E-E and EE-EE, see Sheet S25.
2. For Sections B-B, BB-BB, D-D and DD-DD, Bar Diagrams, additional notes and Bill of Material see Sheet S26.



USER NAME =	DESIGNED - GFA	REVISED -
	CHECKED - LAB, MI	REVISED -
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

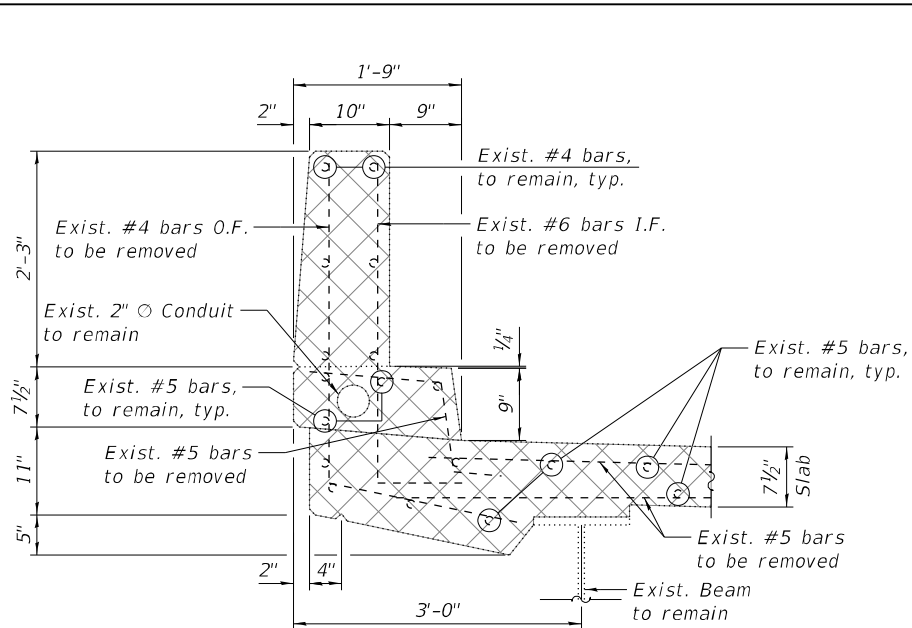
**E. ABUT. EXP. JT. REMOVAL & REPLACEMENT (SHT. 1 OF 3)  
STRUCTURE NO. 016-0225**

SHEET S24 OF S50 SHEETS

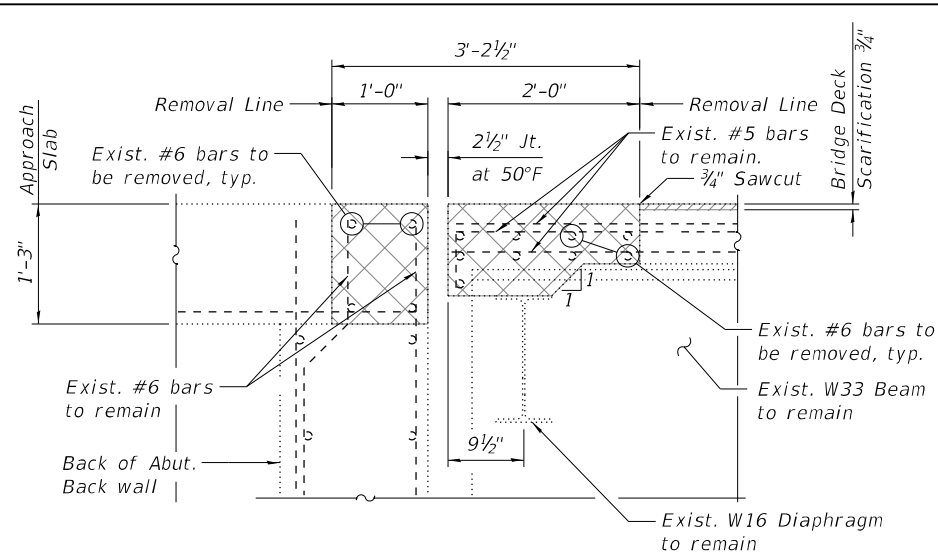
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	49
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

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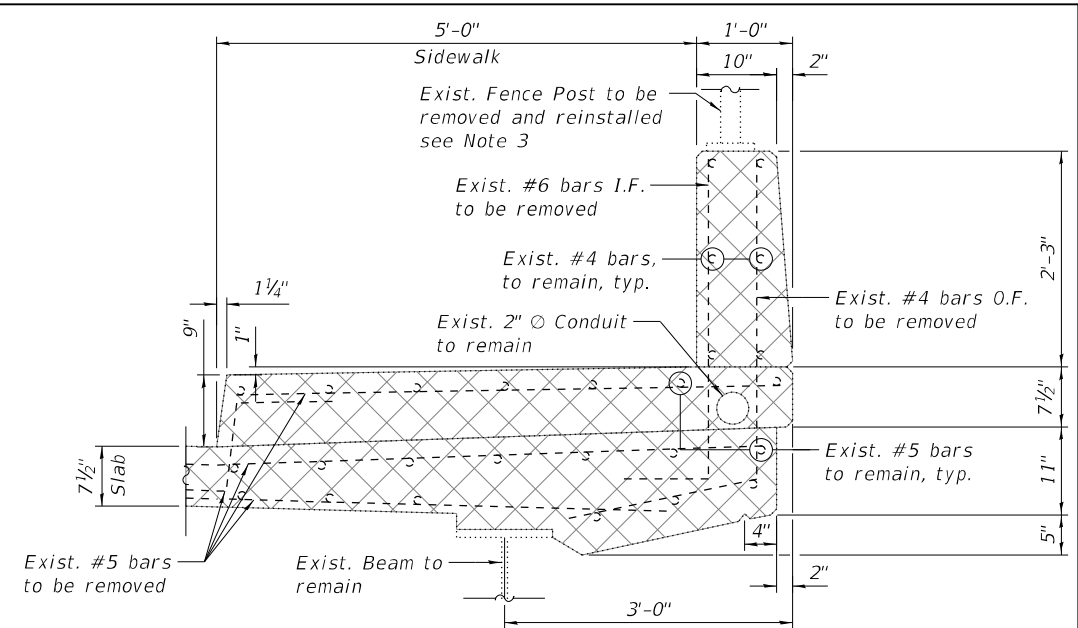
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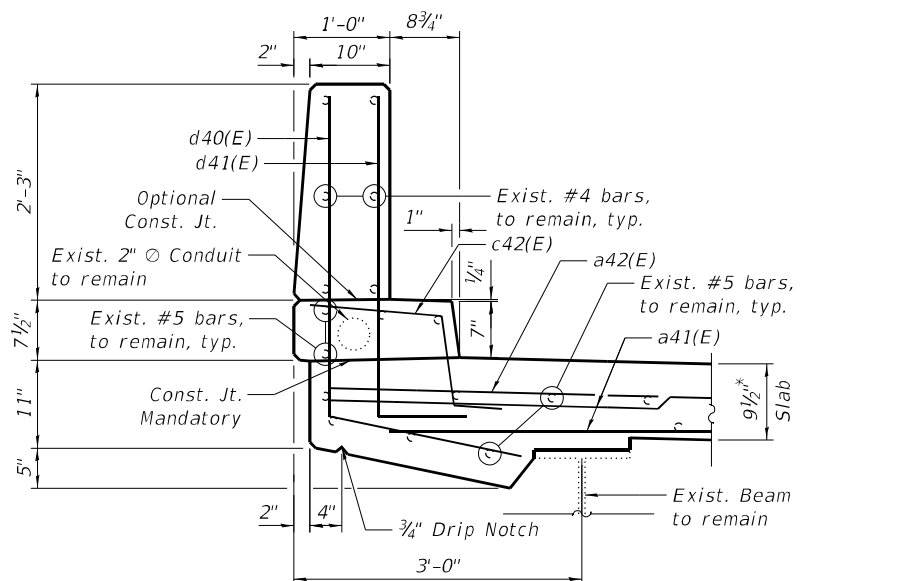
SECTION A-A



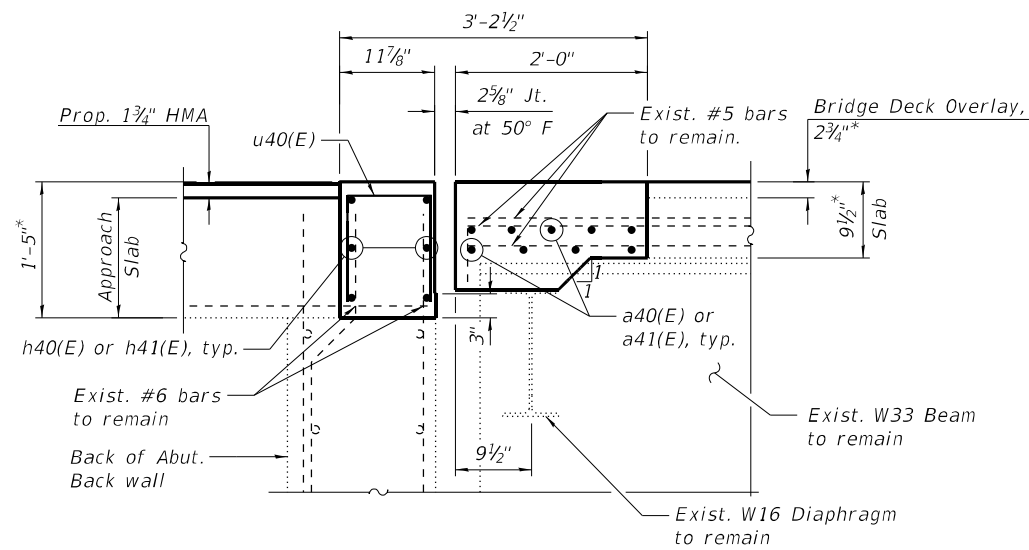
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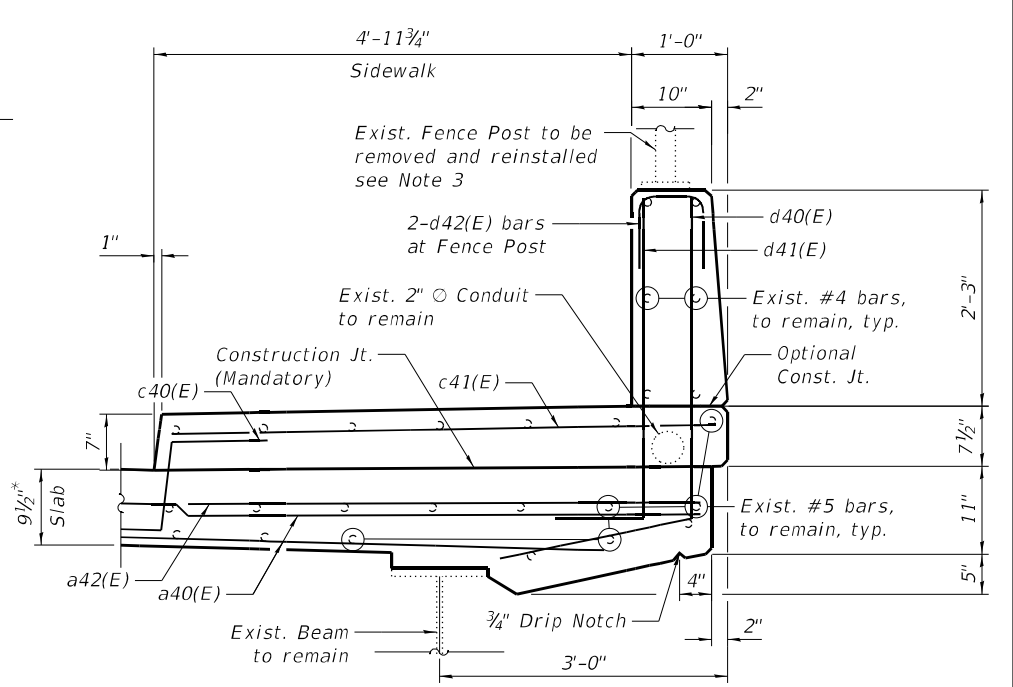
SECTION E-E



SECTION AA-AA



SECTION CC-CC



SECTION EE-EE

**NOTES:**

1. For legend, see Sheet S24.
2. For Bar Diagrams, Notes, Bill of Material and Fence Post anchor bolt details, see Sheet S26.

\*Before 1/4" Diamond Grinding



USER NAME =	DESIGNED - GFA	REVISED -
PLOT SCALE =	CHECKED - LAB, MI	REVISED -
PLOT DATE =	DRAWN - GFA	REVISED -
	CHECKED - LAB, MI	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

E. ABUT. EXP. JT. REMOVAL & REPLACEMENT (SHT. 2 OF 3)  
 STRUCTURE NO. 016-0225

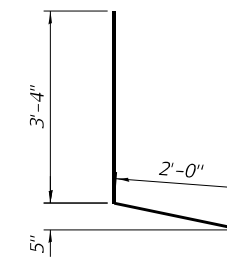
SHEET S25 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	50
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

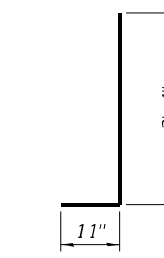


**BILL OF MATERIAL**

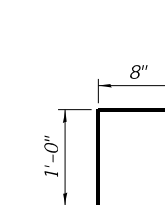
Bar	No.	Size	Length	Shape
a40(E)	9	#5	31'-8"	—
a41(E)	9	#5	27'-5"	—
a42(E)	6	#6	5'-0"	—
c40(E)	5	#5	2'-5"	⌒
c41(E)	6	#5	5'-8"	⌒
c42(E)	5	#5	3'-3"	⌒
d40(E)	6	#4	6'-8"	⌒
d41(E)	6	#6	4'-3"	⌒
d42(E)	2	#4	2'-2"	⌒
h40(E)	6	#6	31'-8"	—
h41(E)	6	#6	27'-5"	—
u40(E)	54	#5	2'-8"	⌒
Concrete Removal		Cu Yd	10.3	
Concrete Superstructure		Cu Yd	10.9	
Protective Coat		Sq Yd	24	
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)		Sq Ft	2	
Reinforcement Bars, Epoxy Coated		Pound	1420	



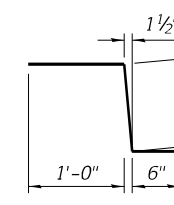
BAR d40(E)



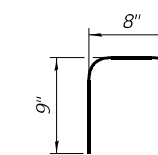
BAR d41(E)



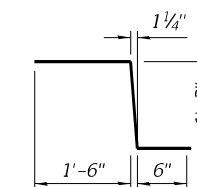
BAR u40(E)



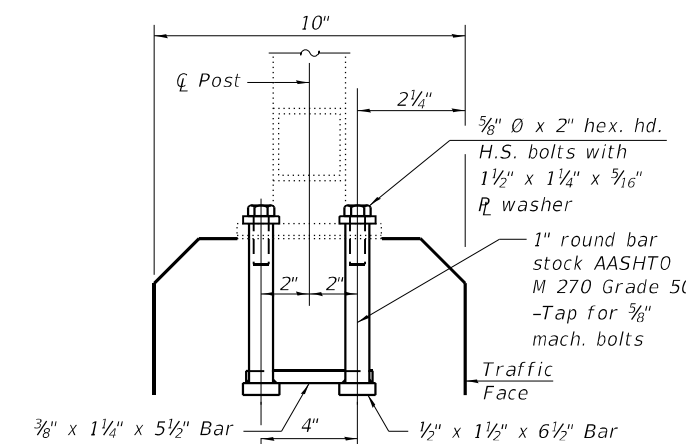
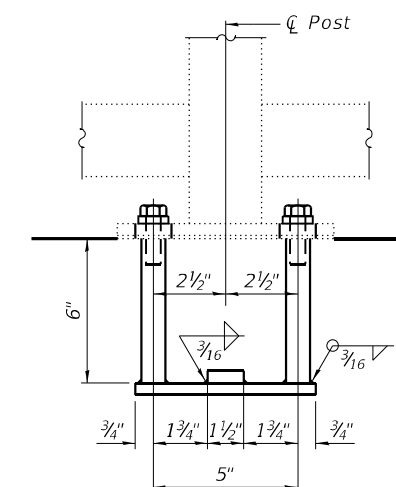
BAR c40(E)



BAR d42(E)



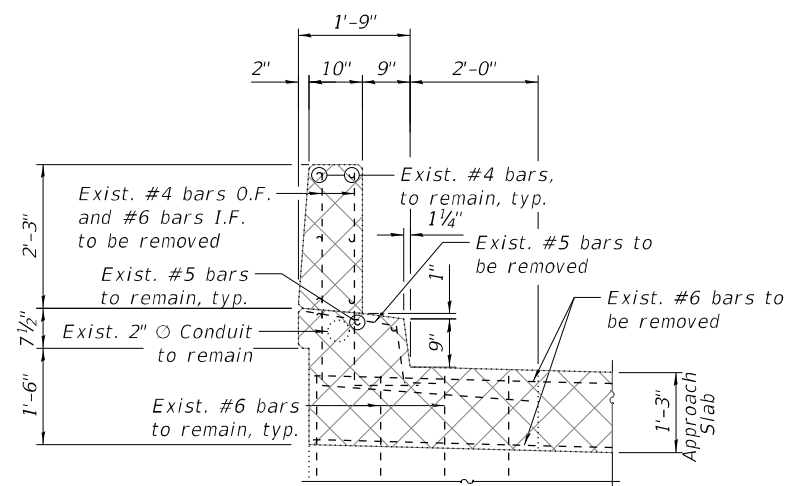
BAR c42(E)



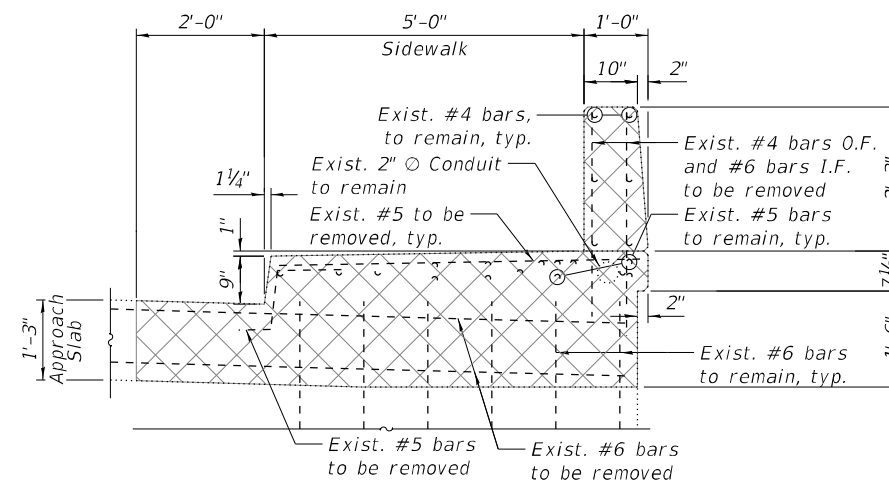
**ANCHORAGE ASSEMBLY**

The Bridge Fence Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. (See Note 6).

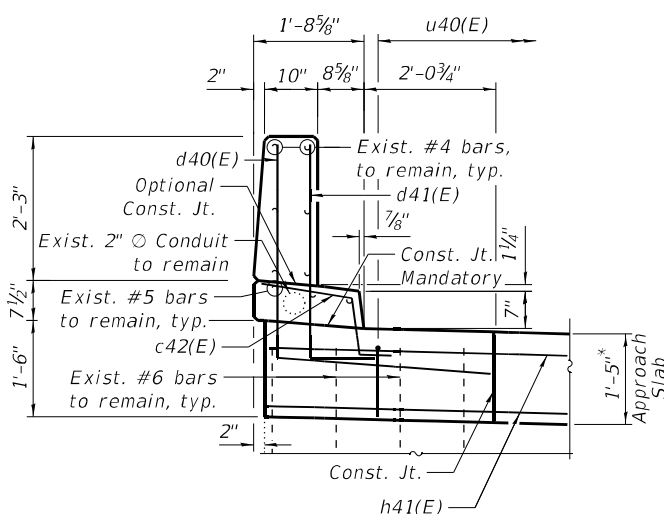
\*Before Diamond Grinding



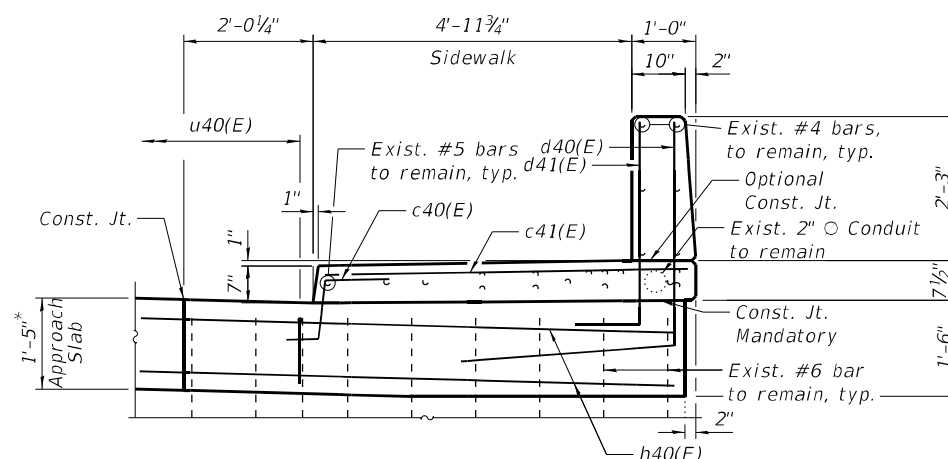
SECTION B-B



SECTION D-D



SECTION BB-BB



SECTION DD-DD

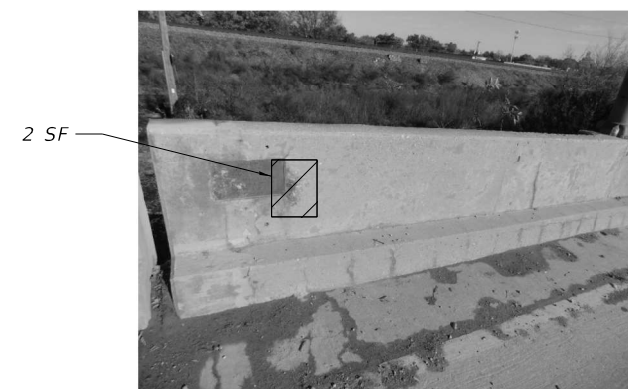


PHOTO 1  
(Looking North)

**NOTES:**

1. For legend, see Sheet S24.
2. For preformed joint strip seal detail, see Sheet S31.
3. For bar splicer assembly details, see Sheet S50.
4. Removal and disposal of existing expansion joints is included with Concrete Removal.
5. The Contractor shall use caution during Concrete Removal to avoid damaging the name plate to remain. The name plate shall be incorporated into the new construction. Any damage to the existing name plate to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
6. Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in Special Provisions shall be included with "Concrete Superstructure".

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

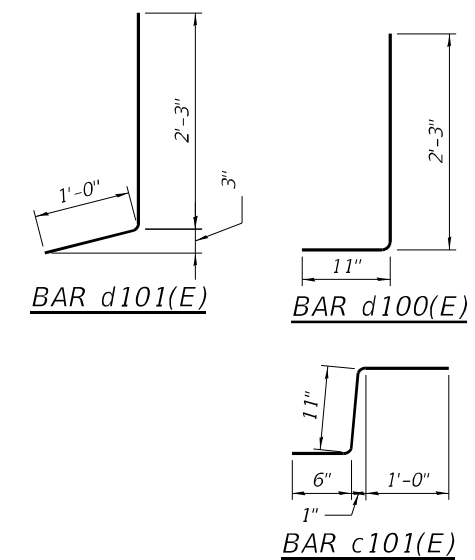
E. ABUT. EXP. JT. REMOVAL & REPLACEMENT (SHT. 3 OF 3)  
STRUCTURE NO. 016-0225

SHEET S26 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	51
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**  
**APPROACH EXP. JOINTS**

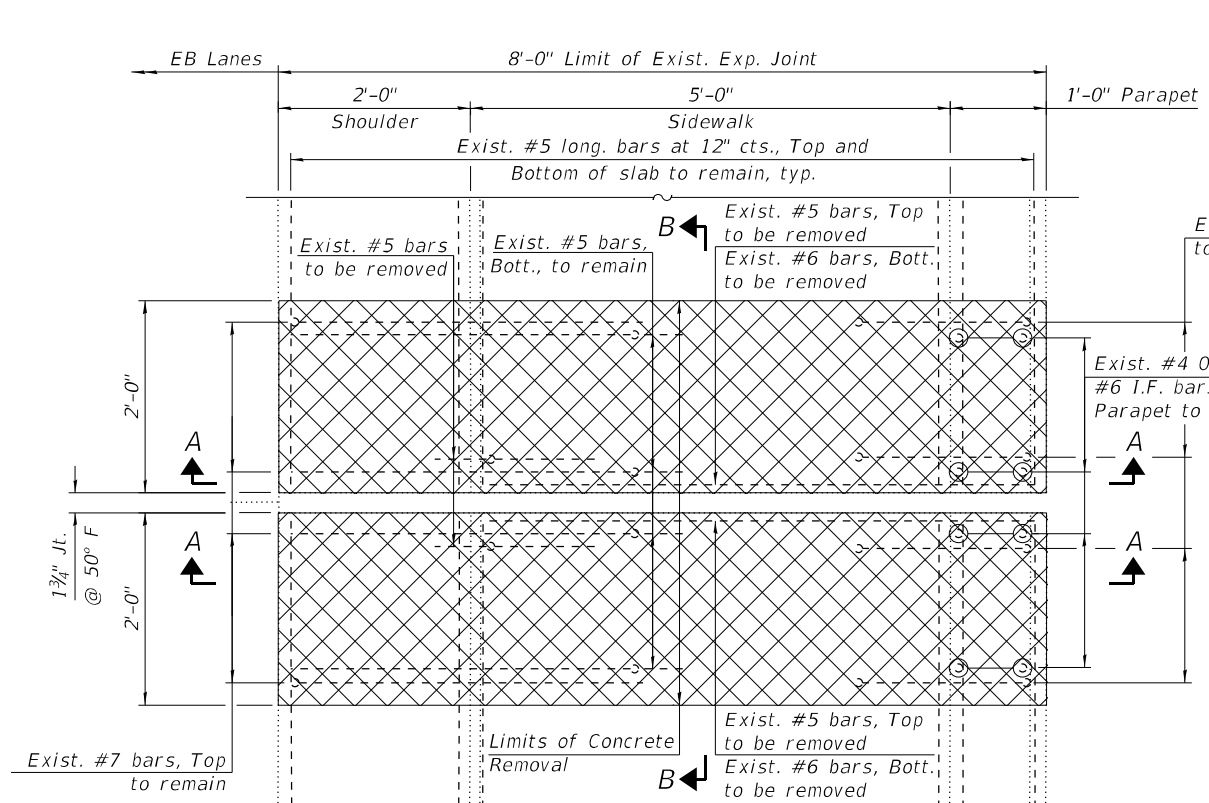
Bar	No.	Size	Length	Shape	
c100(E)	32	#5	5'-8"	—	
c101(E)	16	#5	2'-5"	┘	
d100(E)	16	#4	3'-2"	┘	
d101(E)	16	#6	3'-3"	┘	
Concrete Removal				Cu. Yd	2.4
Concrete Superstructure				Cu. Yd	2.4
Polymer Concrete				Cu. Yd	2
Reinforcement Bars Epoxy Coated				Pound	350



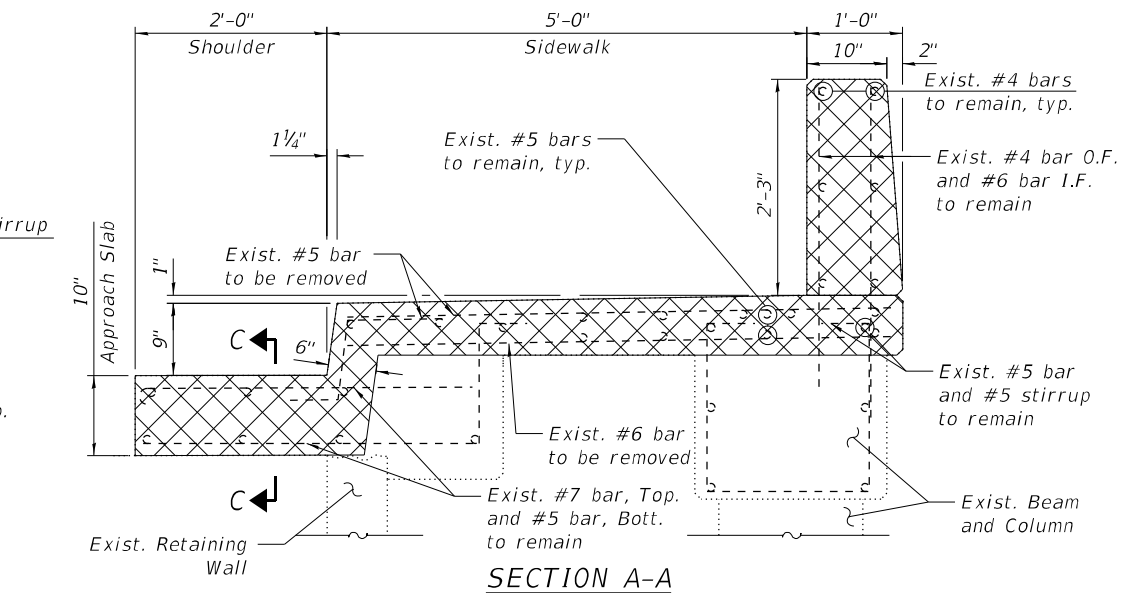
**NOTE:**  
1. For notes, See Sheet S29.

**LEGEND**

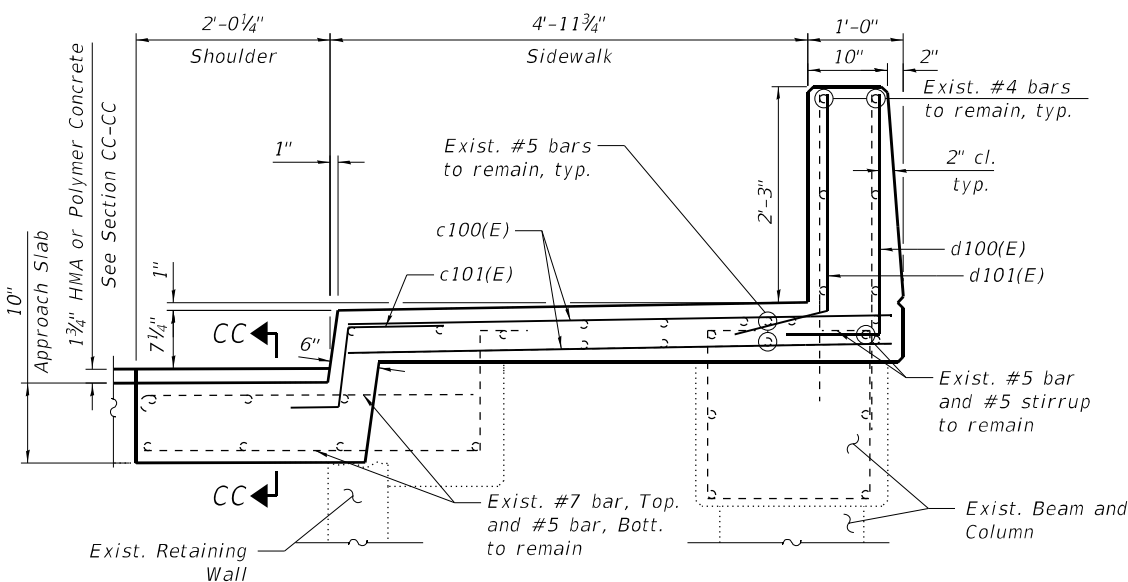
	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face



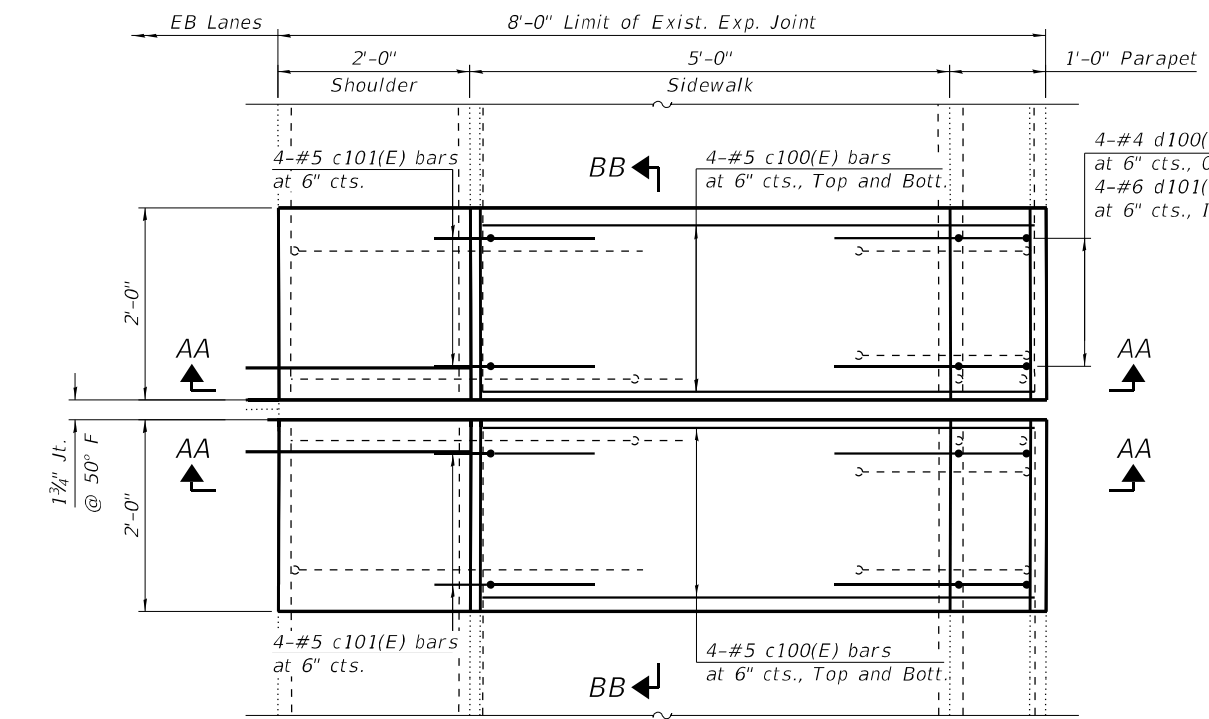
**APPROACH EXPANSION JOINT REMOVAL PLAN**  
(West Approach Southwest Expansion Joint #2)  
(East Approach Southeast Expansion Joint #1)



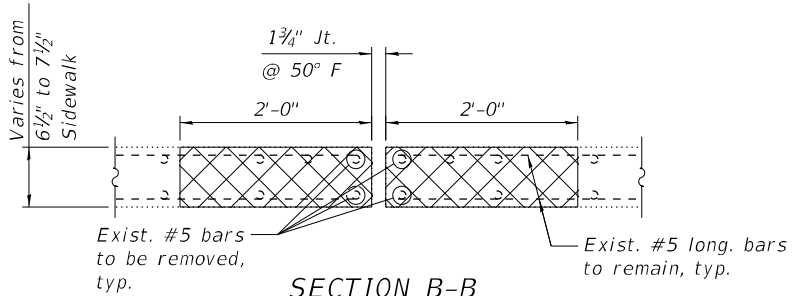
**SECTION A-A**



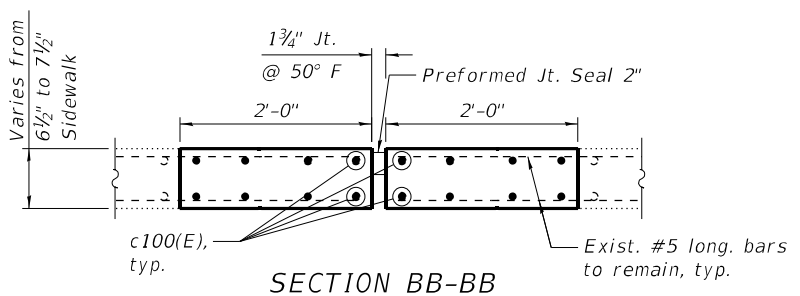
**SECTION AA-AA**



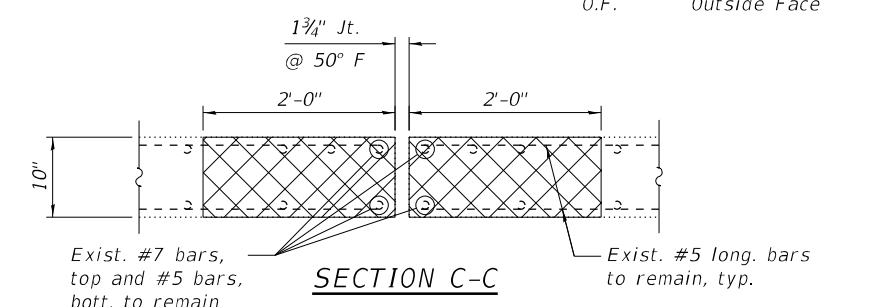
**APPROACH EXPANSION JOINT RECONSTRUCTION PLAN**  
(West Approach Southwest Expansion Joint #2)  
(East Approach Southeast Expansion Joint #1)



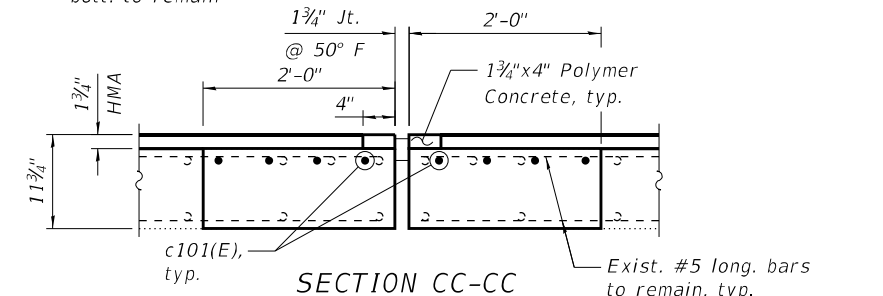
**SECTION B-B**



**SECTION BB-BB**



**SECTION C-C**



**SECTION CC-CC**

For Preformed Joint Seal, See Sheet S29.

For Preformed Joint Seal, See Sheet S29.

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	CHECKED - LAB, MI	REVISED -

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

**EAST & WEST APPR. SOUTH EXP. JT. REMOVAL & REPLACEMENT**  
**STRUCTURE NO. 016-0225**

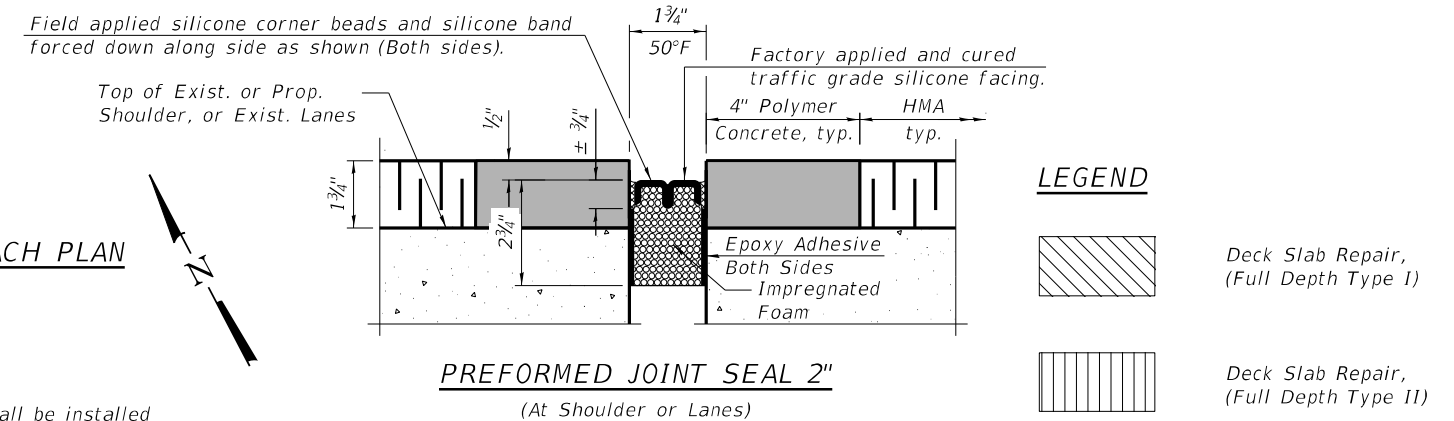
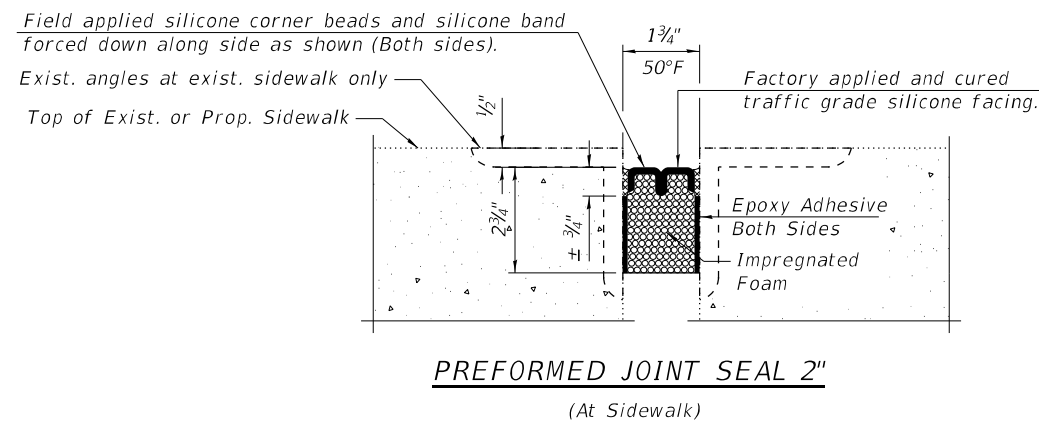
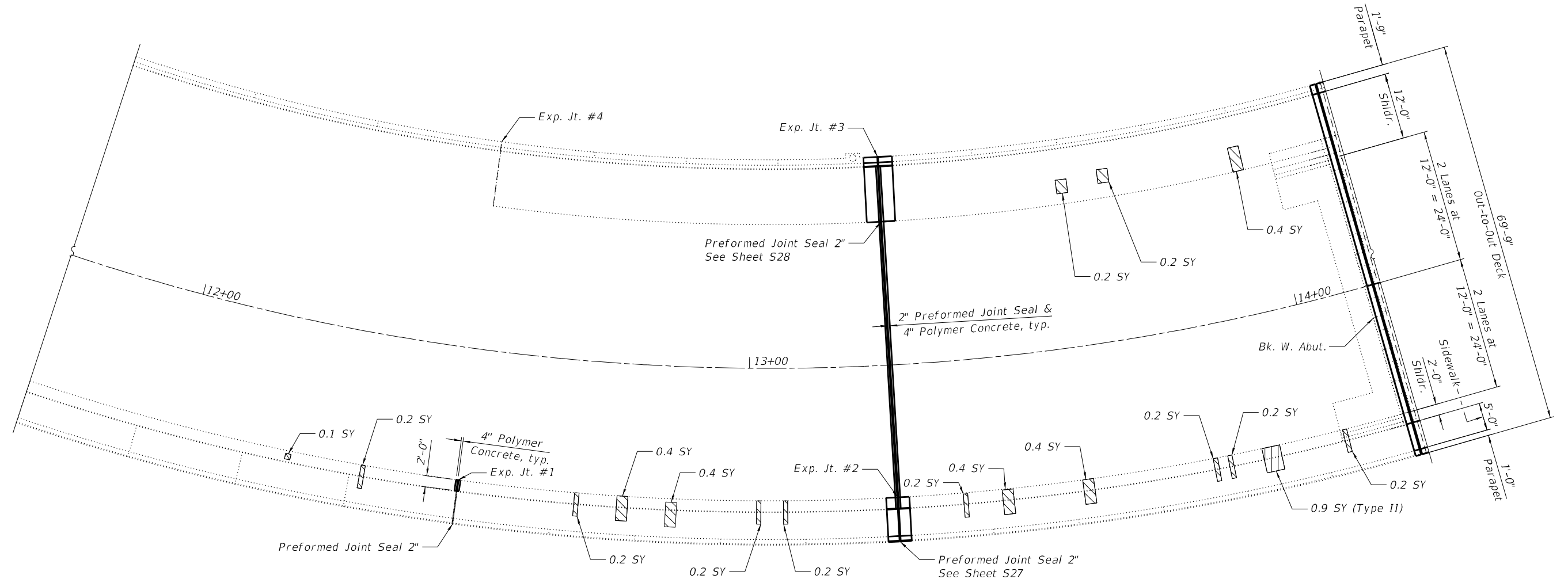
SHEET S27 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	52
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

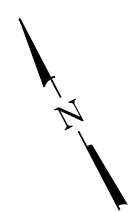


**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Preformed Joint Seal 2"	Foot	31
Deck Slab Repair (Full Depth, Type I)	Sq Yd	5
Deck Slab Repair (Full Depth, Type II)	Sq Yd	1
Polymer Concrete	Cu Ft	7.0



**WEST APPROACH PLAN**



**LEGEND**

	Deck Slab Repair, (Full Depth Type I)
	Deck Slab Repair, (Full Depth Type II)
SY	Square Yard

**NOTES:**

- For General Notes and Total Bill of Material, see Sheet S03.
- Quantities and limits shown for deck slab repair are for bidding purposes only. The actual areas to be repaired, and types of repairs to be used will be determined by the Engineer in the field. All repair areas shall be shown on the as-built plans.
- Cost of removal of existing joint sealer at approaches shall be included with Preformed Joint Seal 2".
- Polymer concrete and preformed joint seal shall be installed concurrently with the 1 3/4" HMA overlay. See Civil plans.

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 10/25/2024 9:18:31 AM



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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

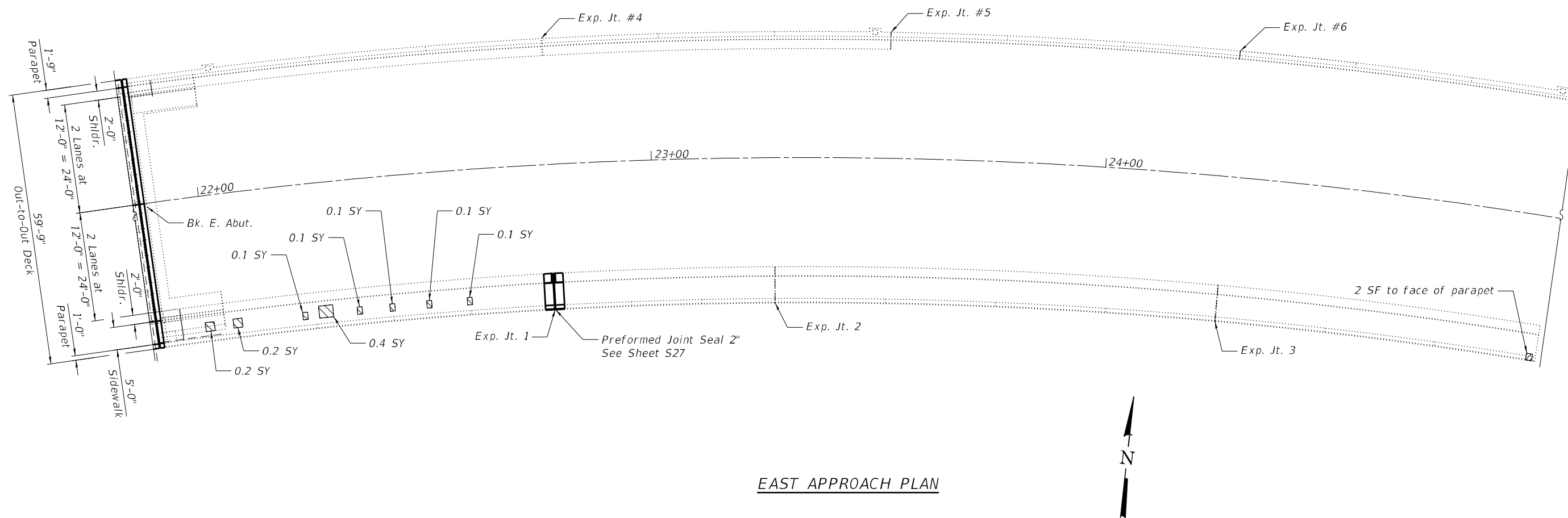
**WEST APPROACH SLAB REPAIRS  
STRUCTURE NO. 016-0225**

SHEET S29 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	54
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				


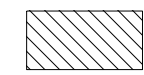
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Preformed Joint Seal 2"	Foot	11
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	2
Deck Slab Repair (Full Depth, Type I)	Sq Yd	2



**EAST APPROACH PLAN**

**LEGEND**

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Deck Slab Repair (Full Depth, Type I)
- SY Square Yard
- SF Square Foot
- LF Linear Foot

**NOTE:**

1. For preformed joint seal detail and notes, see Sheet S29.

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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

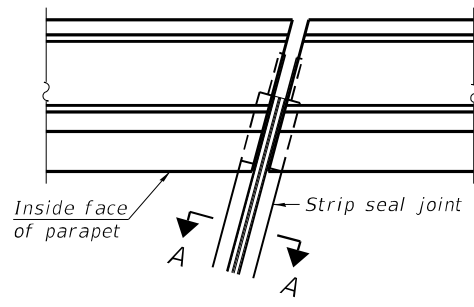
**EAST APPROACH SLAB REPAIRS  
STRUCTURE NO. 016-0225**

SHEET S30 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R99				

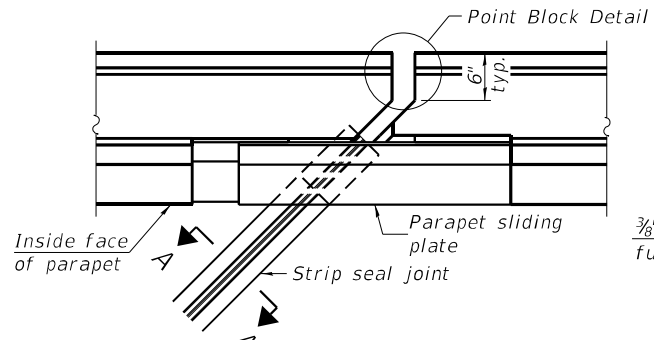
ILLINOIS FED. AID PROJECT

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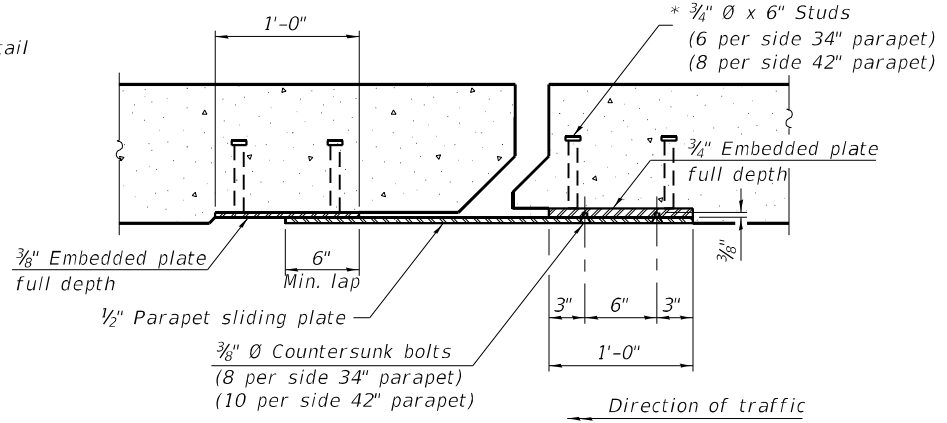


FOR SKEWS  $\leq 30^\circ$

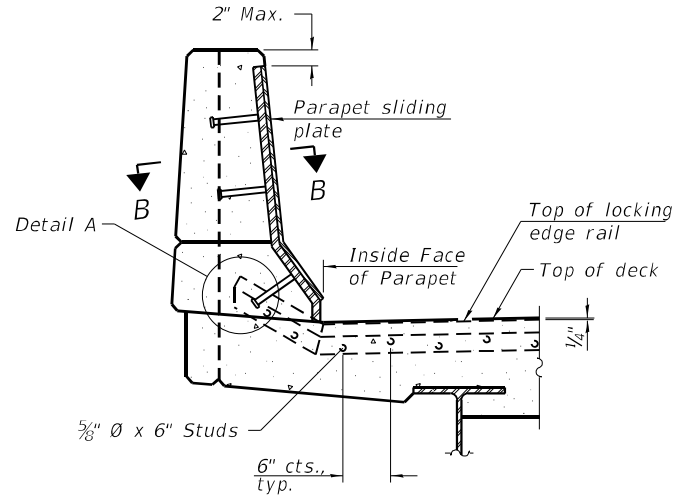
PLAN AT PARAPET



FOR SKEWS  $> 30^\circ$

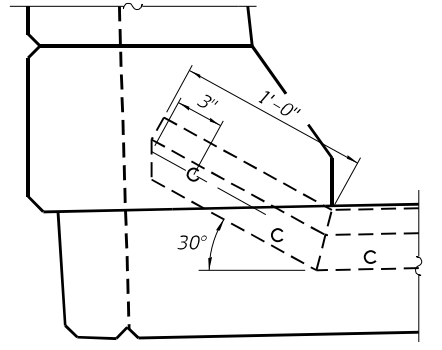


SECTION B-B

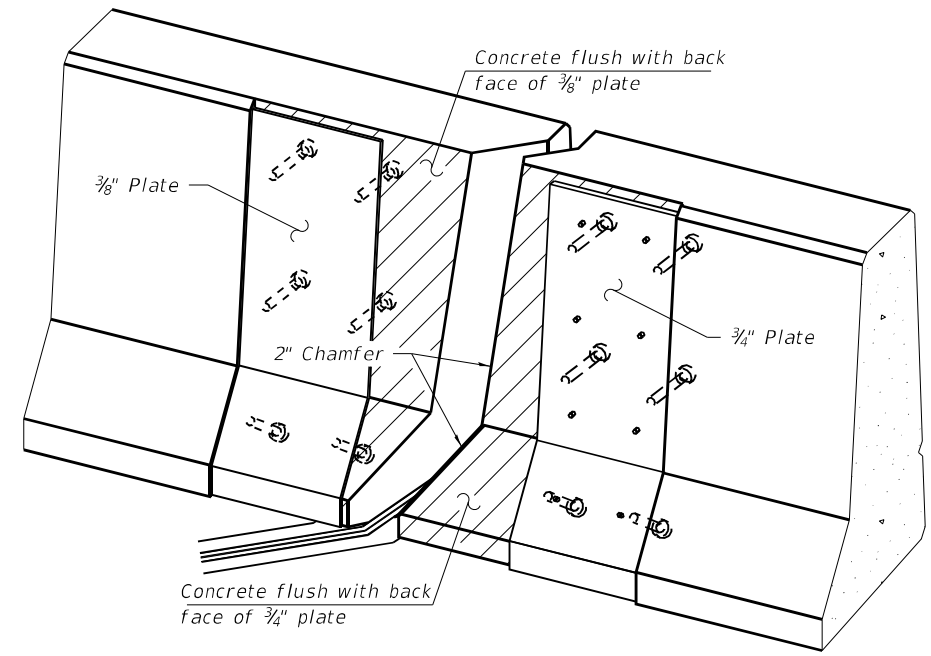


ELEVATION AT PARAPET

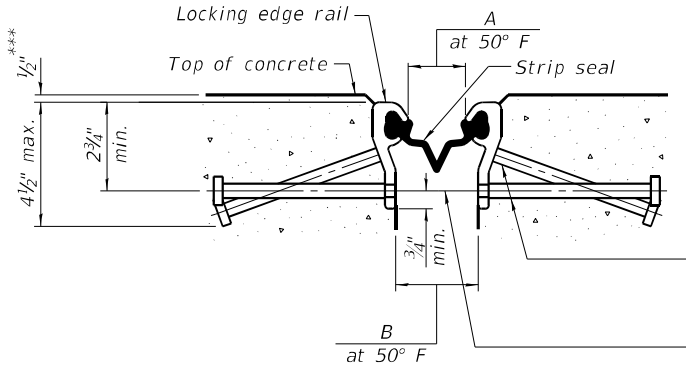
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



DETAIL A

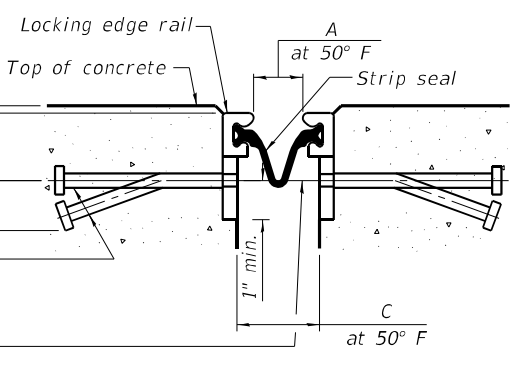


TRIMETRIC VIEW  
(Showing embedded plates only)

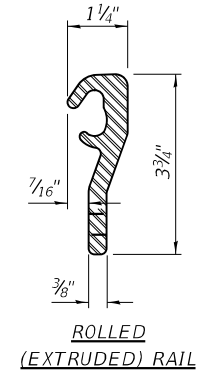


SHOWING ROLLED RAIL JOINT

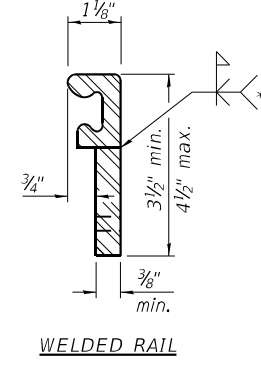
\*  $5/8"$   $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $3/8"$   $\phi$  threaded rods in  $1/16"$   $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT



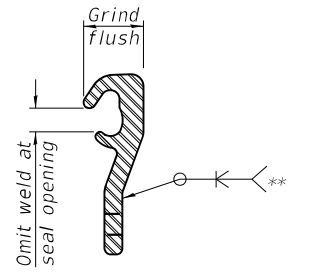
ROLLED (EXTRUDED) RAIL



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.

Joint	A	B	C
West Abut.	1 7/8"	2 3/4"	3 7/8"
Piers 4 and 5	1 1/2"	2 3/8"	3"
Pier 6	2 1/4"	3 1/8"	3 3/4"
East Abut.	1 3/4"	2 7/8"	3 1/4"

SECTION A-A

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

\*\*\* Before 1/4" Diamond Grinding

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	349



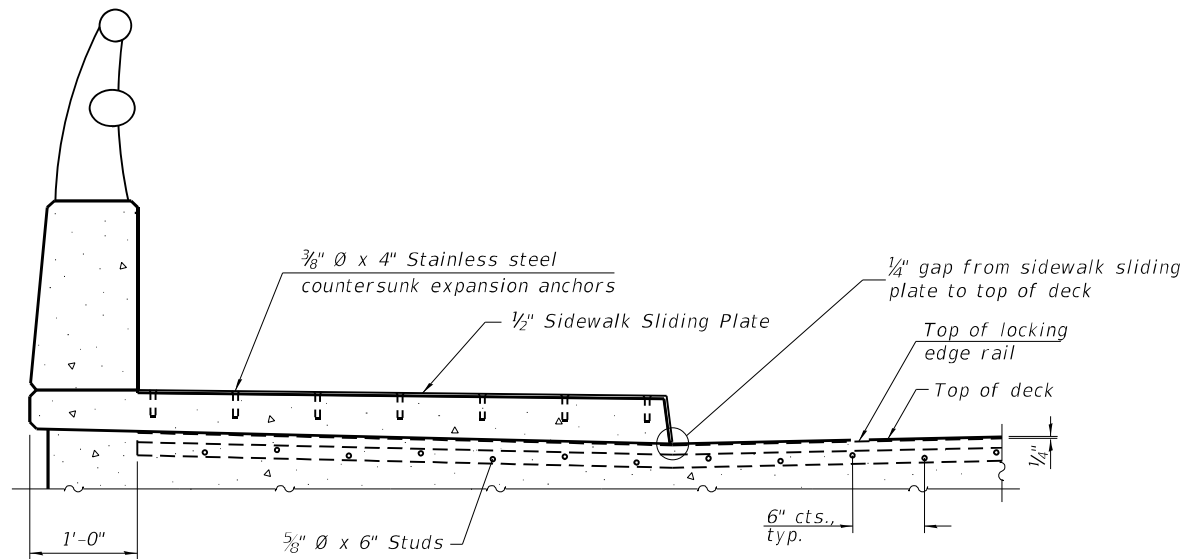
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

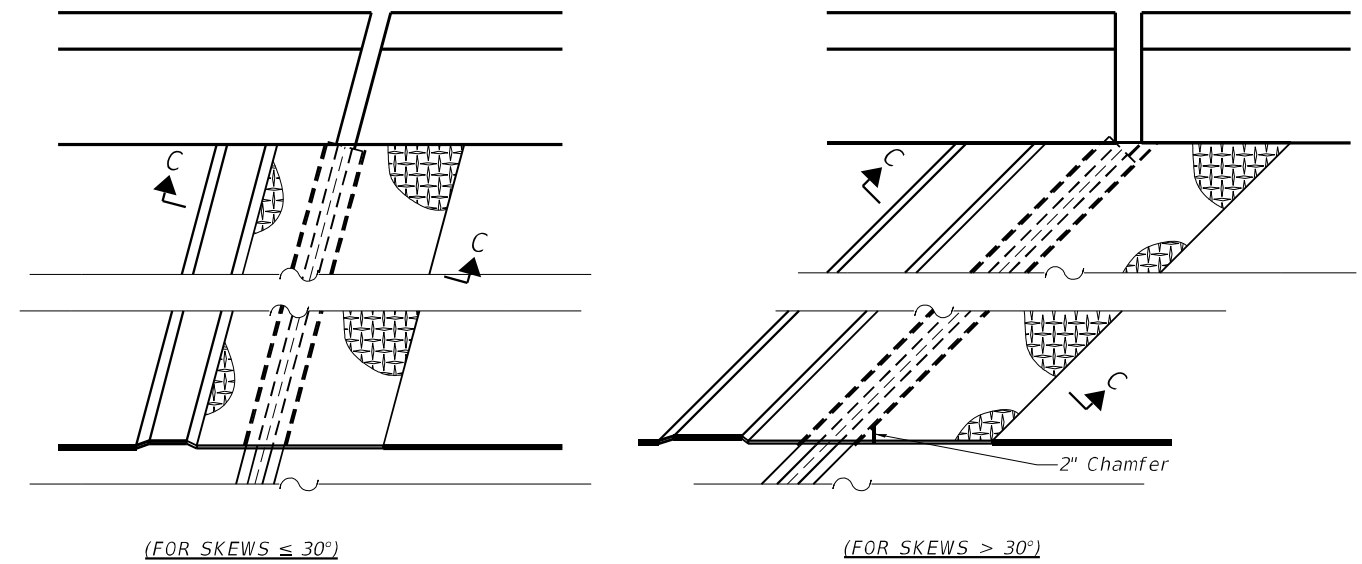
PREFORMED JOINT STRIP SEAL-SIDEWALK (SHEET 1 OF 2)  
 STRUCTURE NO. 016-0225

SHEET S31 OF S50 SHEETS

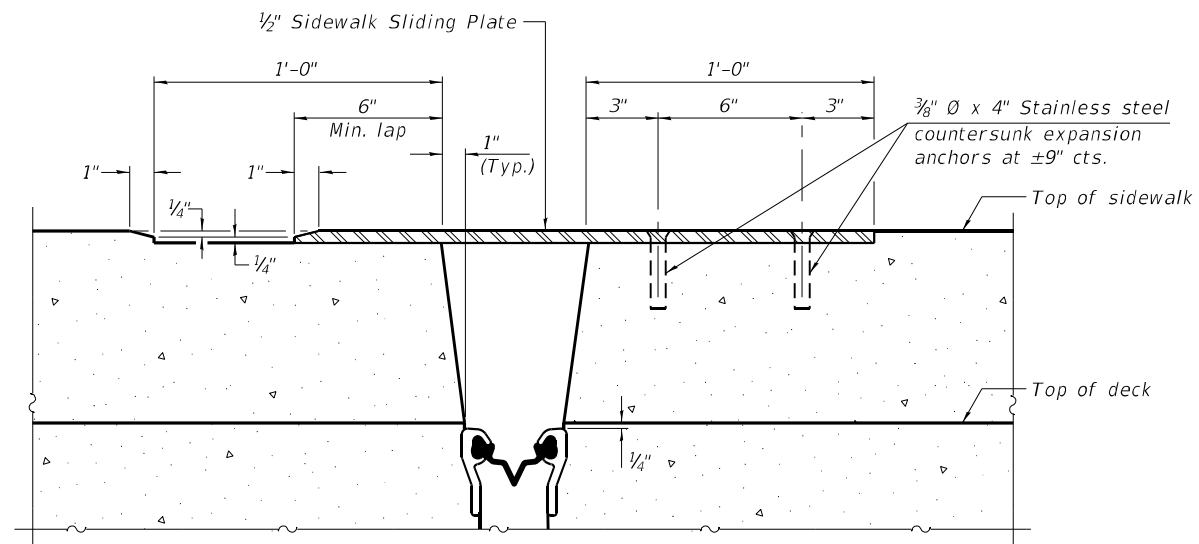
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	56
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				



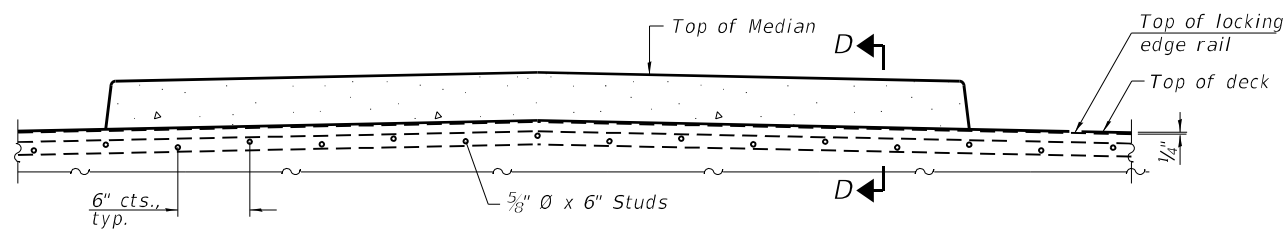
**ELEVATION AT RAISED SIDEWALK**



**PLAN AT RAISED SIDEWALK**

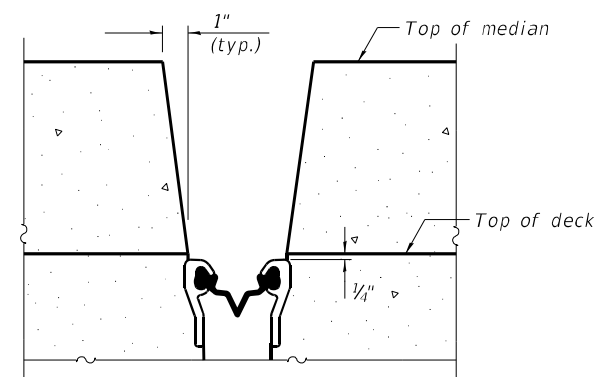


**SECTION C-C**



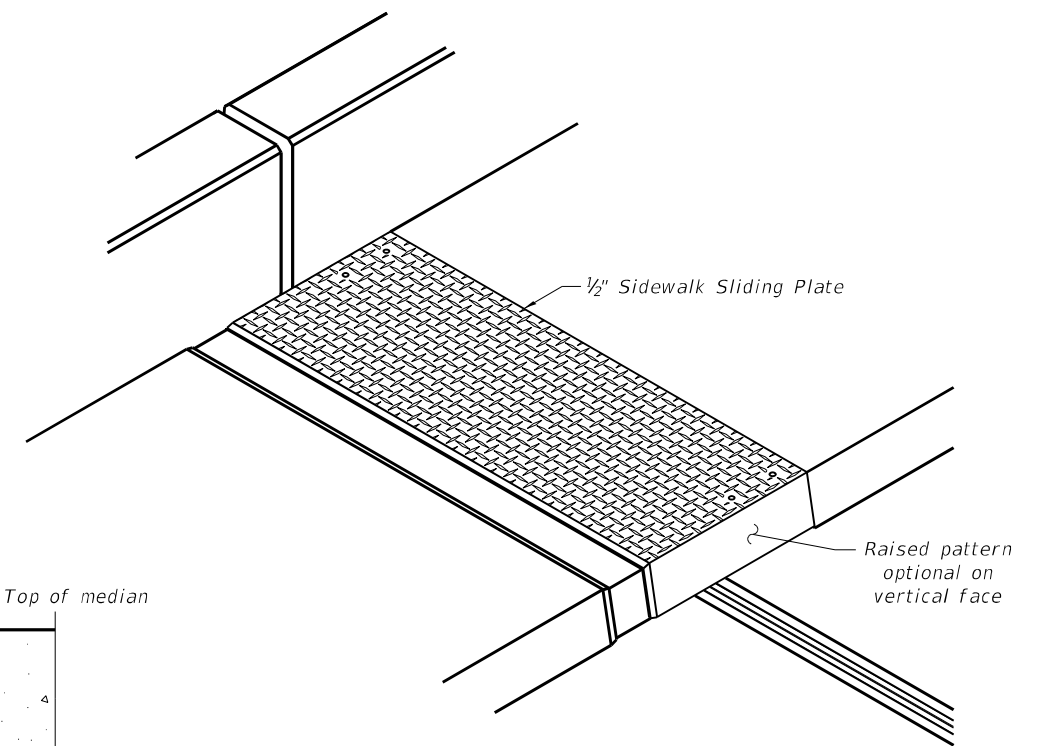
**ELEVATION AT MEDIAN**

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



**SECTION D-D**

(at Rt.  $\angle$ 's)



**TRIMETRIC VIEW**

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STATE OF ILLINOIS  
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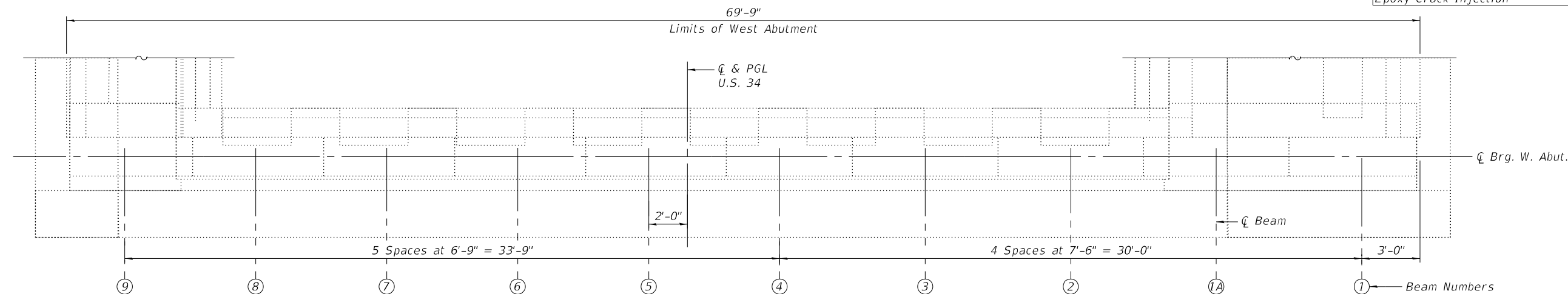
PREFORMED JOINT STRIP SEAL-SIDEWALK (SHEET 2 OF 2)  
STRUCTURE NO. 016-0225

SHEET S32 OF S50 SHEETS

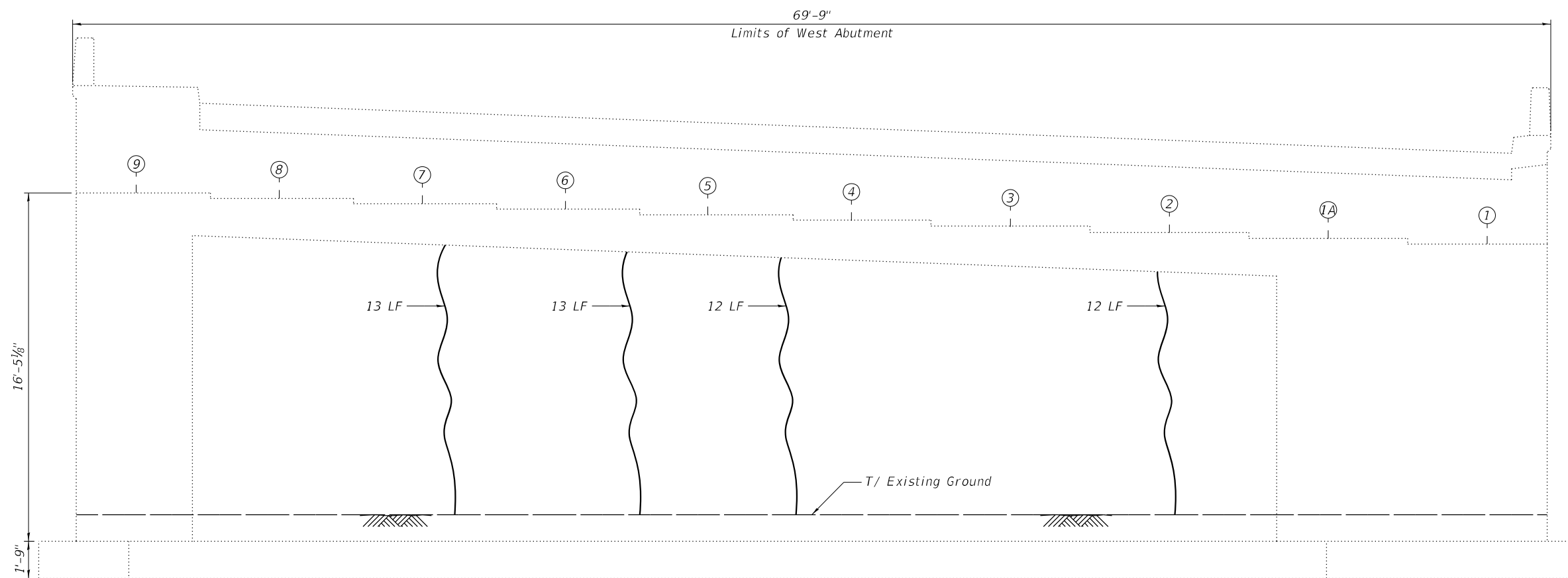
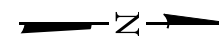
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0311	FAP 0311 22 BJ	COOK	83	57
CONTRACT NO. 62R99				
ILLINOIS		FED. AID PROJECT		

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	490
Epoxy Crack Injection	Foot	50



**WEST ABUTMENT PLAN**



**WEST ABUTMENT ELEVATION**  
(Looking West)

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Concrete Sealer is to be applied to the abutment seats and the bottom 2 feet of the abutment backwall.

**LEGEND**

- Epoxy Crack Injection (Width > 0.06")
- LF Linear Foot

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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT REPAIRS  
STRUCTURE NO. 016-0225**

SHEET S33 OF S50 SHEETS

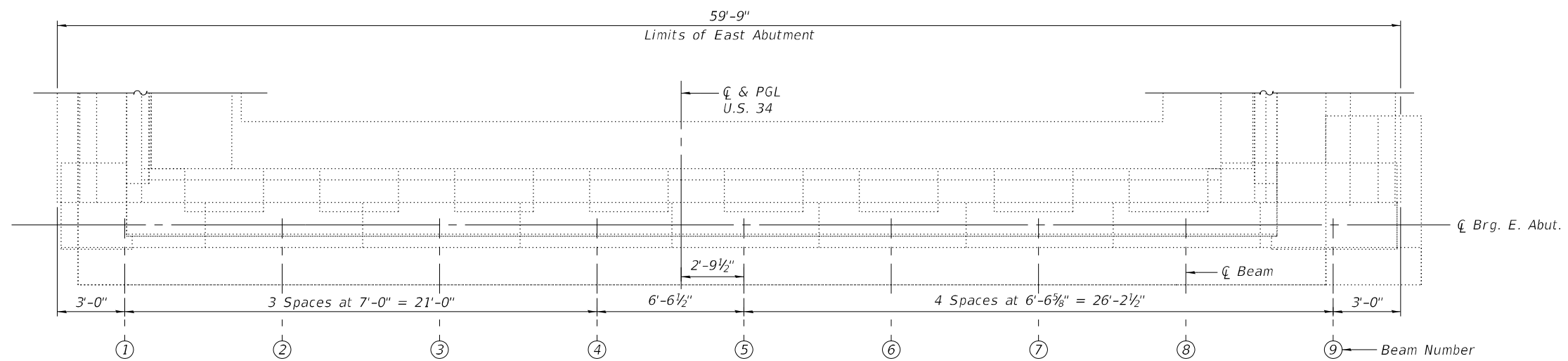
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0311	FAP 0311 22 BJ	COOK	83	58
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT

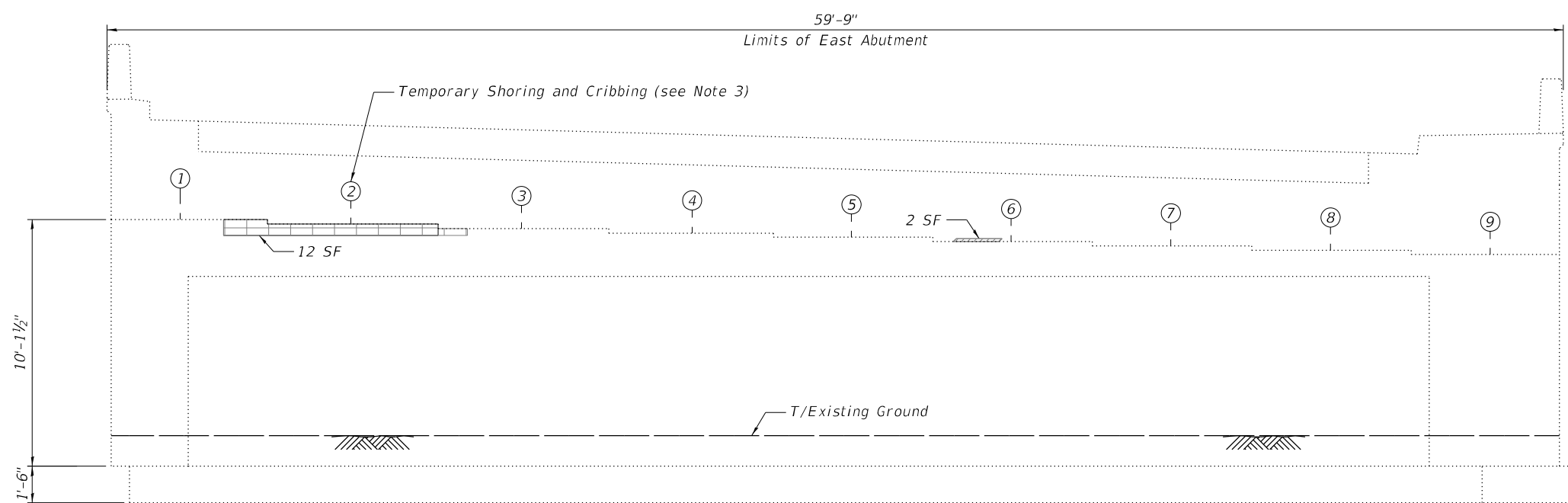
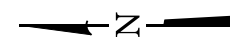


**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	360
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	2
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	12
Temporary Shoring And Cribbing	Each	1



**EAST ABUTMENT PLAN**



**EAST ABUTMENT ELEVATION**  
(Looking East)

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Concrete Sealer is to be applied to the abutment seats and the bottom 2 feet of the abutment backwall.
- Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of concrete.

SUMMARY OF REACTIONS EAST ABUTMENT BEAM 2		
R DL	(k)	20.5
R SDL	(k)	7.8
R LL	(k)	42.8
R IM	(k)	11.4
R Total	(k)	82.5

**LEGEND**

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Structural Repair of Concrete (Depth Greater Than 5 inches)
- SF Square Foot

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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
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**EAST ABUTMENT REPAIRS  
STRUCTURE NO. 016-0225**

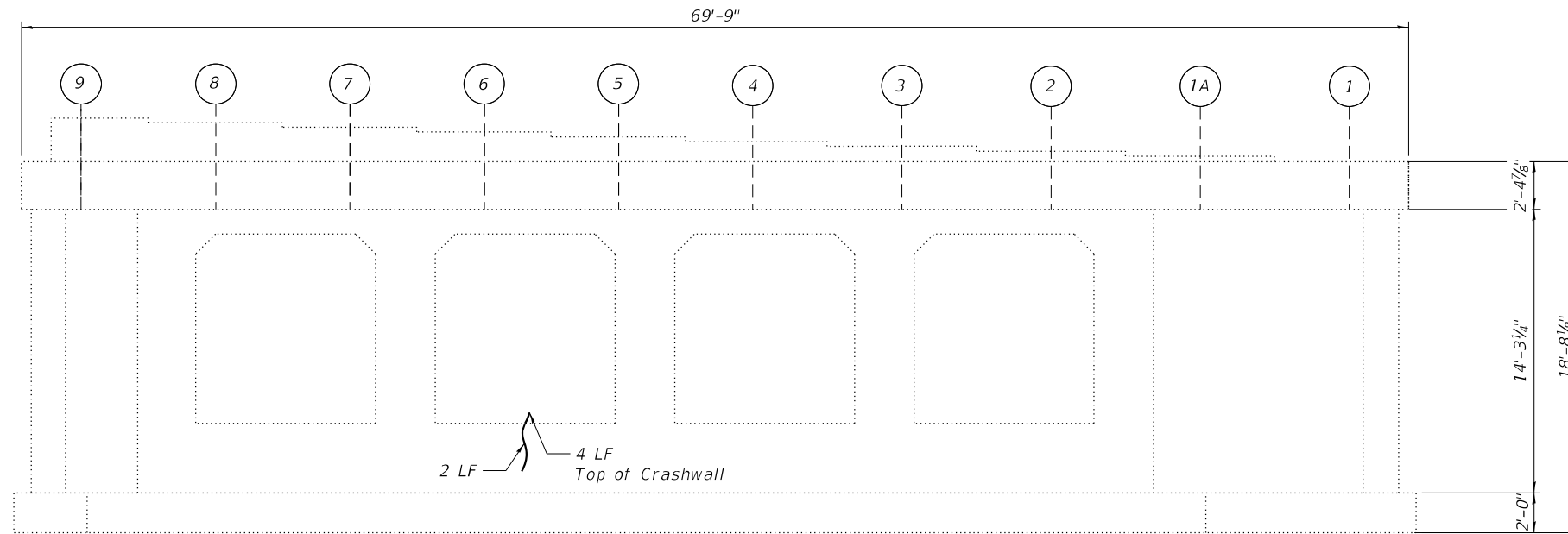
SHEET S34 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R99				

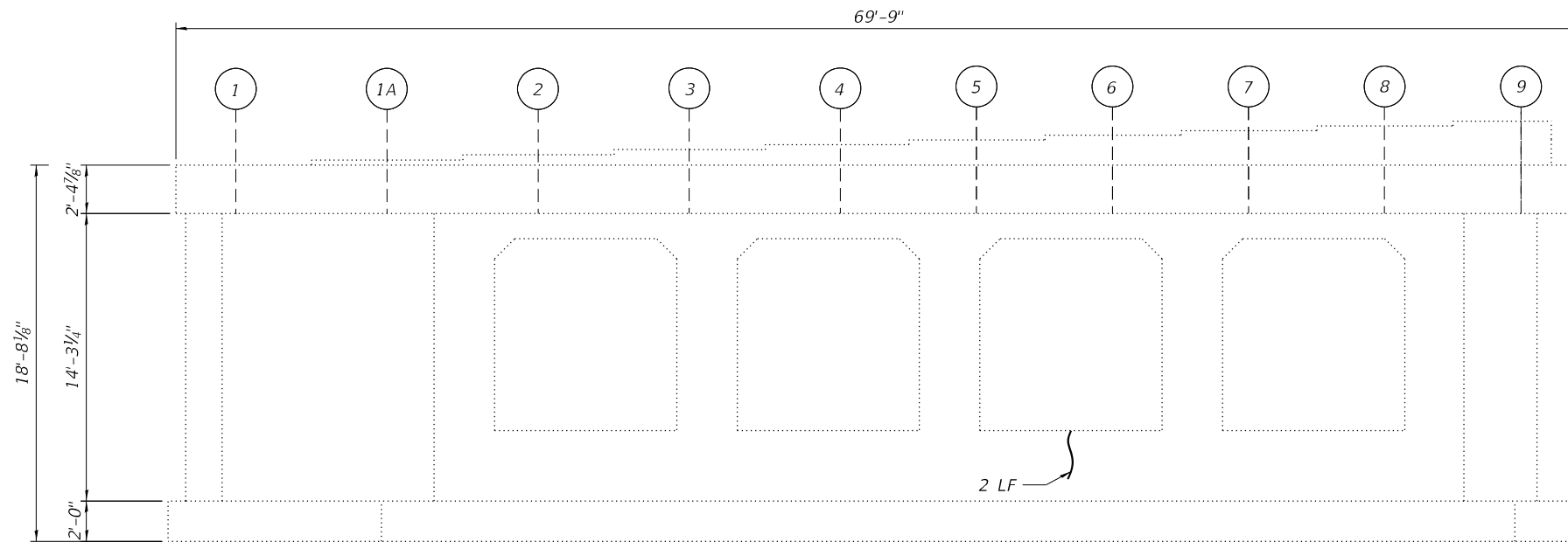
ILLINOIS FED. AID PROJECT

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Epoxy Crack Injection	Foot	8



**PIER 1 ELEVATION**  
(East Face)



**PIER 1 ELEVATION**  
(West Face)

**LEGEND**

- Epoxy Crack Injection (Width > 0.06")
- Linear Foot

**NOTE:**

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

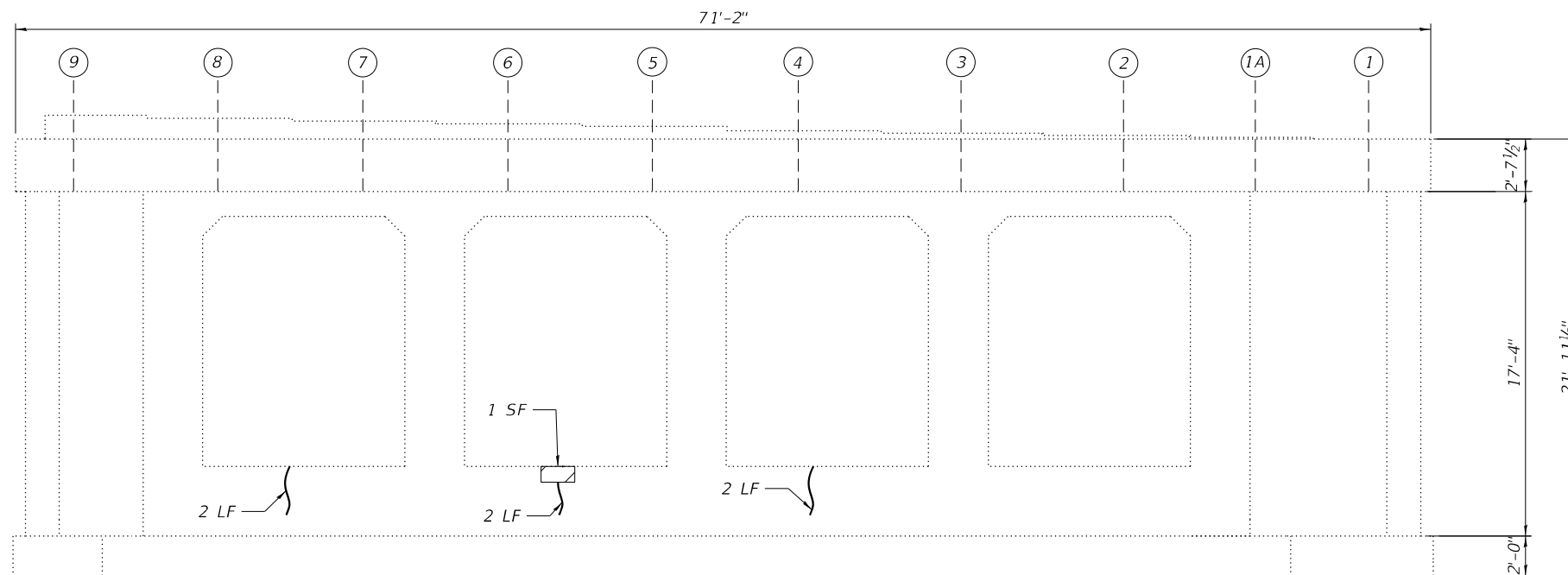
**PIER 1 REPAIRS  
STRUCTURE NO. 016-0225**

SHEET S35 OF S50 SHEETS

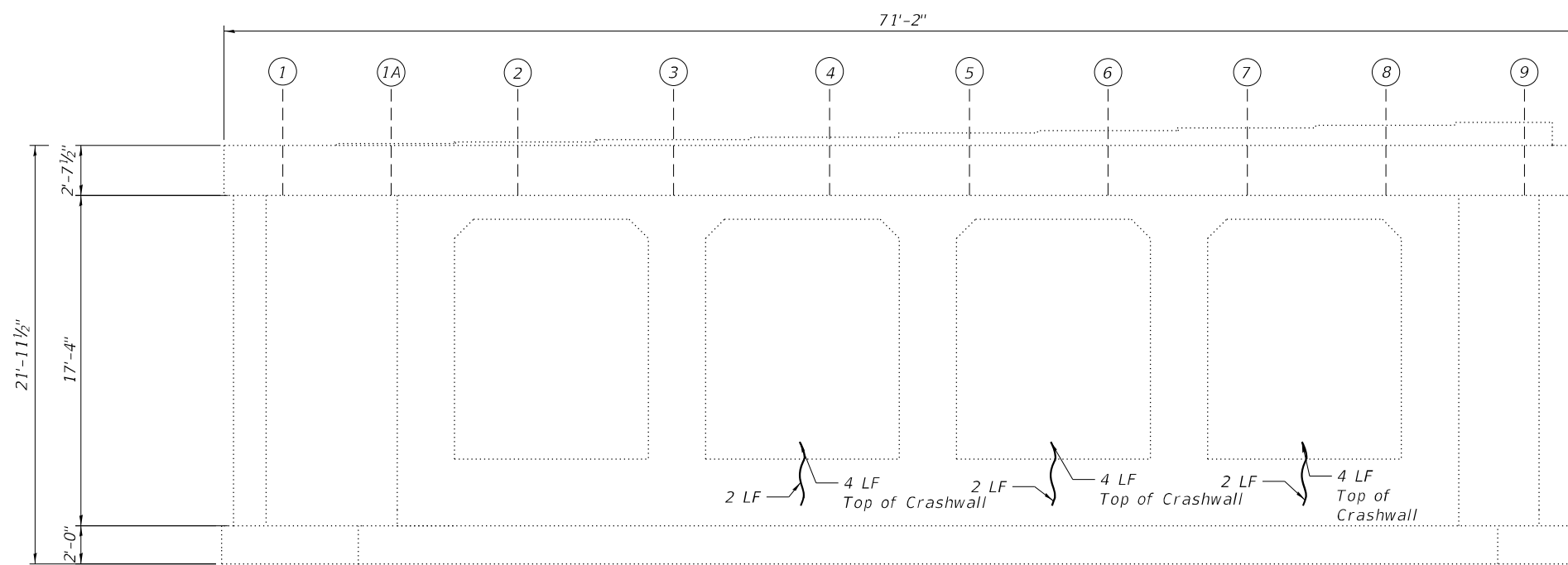
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0311	FAP 0311 22 BJ	COOK	83	60
			CONTRACT NO. 62R99	
		ILLINOIS	FED. AID PROJECT	

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Epoxy Crack Injection	Foot	24
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	1



**PIER 2 ELEVATION**  
(East Face)





**PIER 2 ELEVATION**  
(West Face)

**NOTE:**

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Epoxy Crack Injection (Width > 0.06")
- LF Linear Foot
- SF Square Foot

MODEL: Default  
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**DEPARTMENT OF TRANSPORTATION**

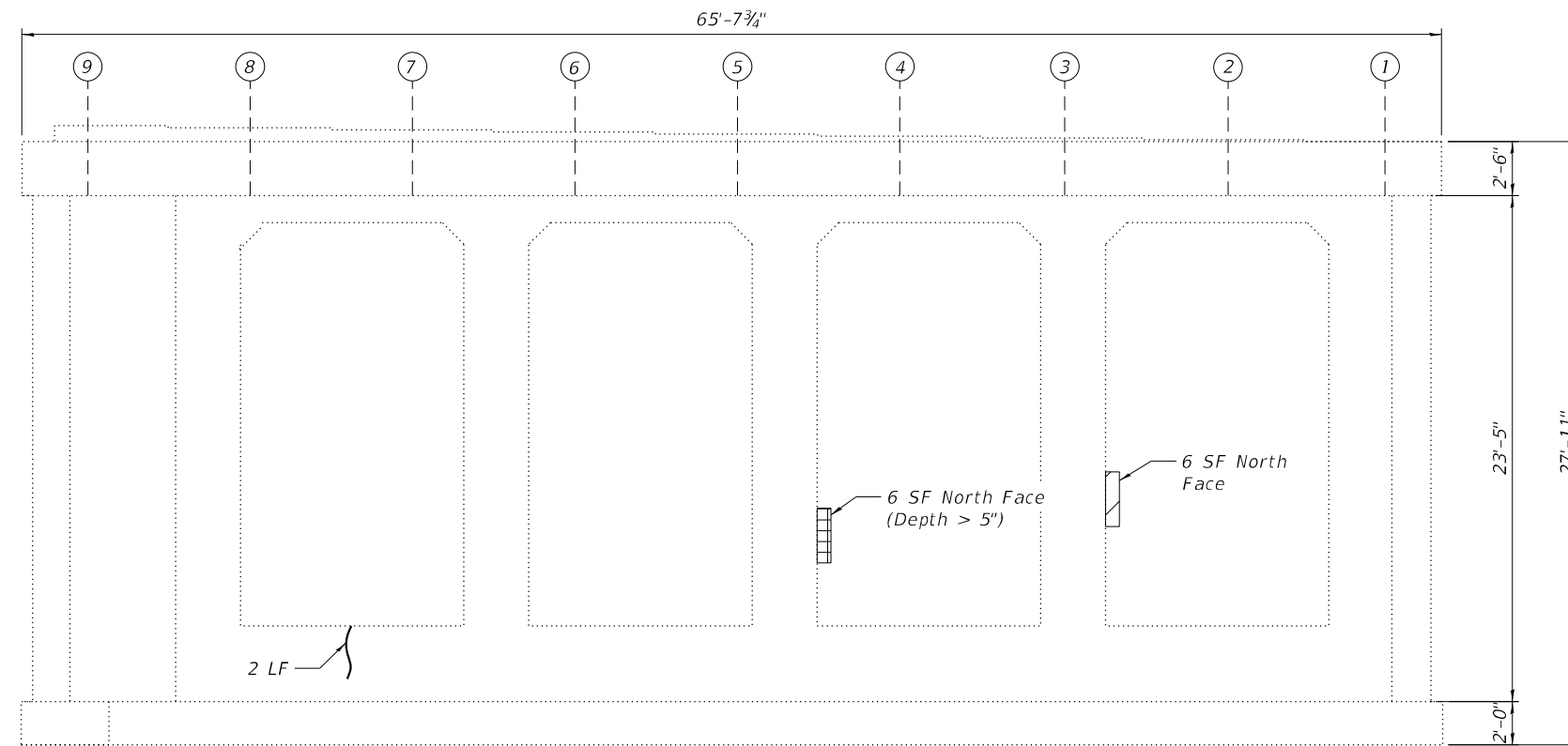
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**STRUCTURE NO. 016-0225**

SHEET S36 OF S50 SHEETS

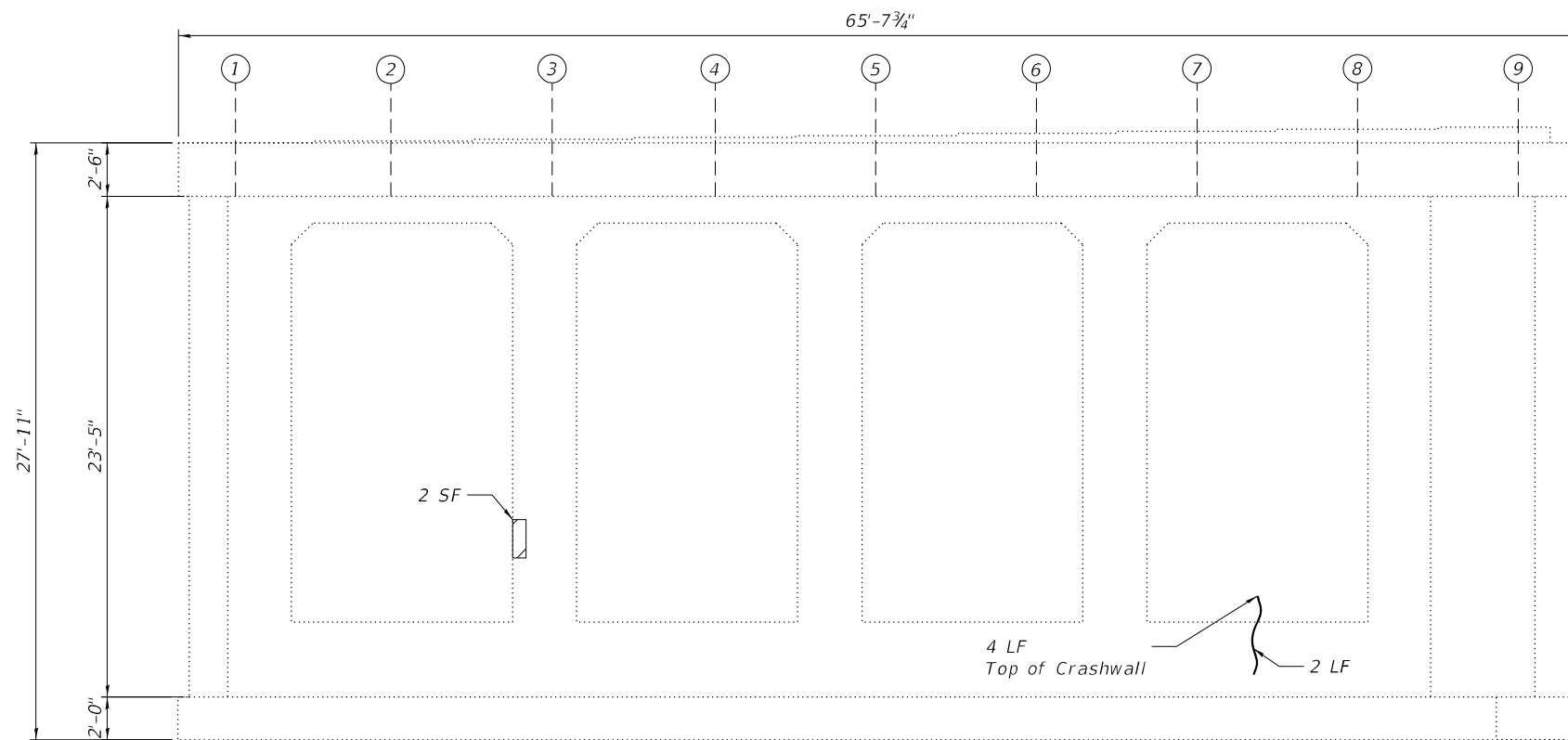
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0311	FAP 0311 22 BJ	COOK	83	61
			CONTRACT NO. 62R99	
		ILLINOIS	FED. AID PROJECT	

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Epoxy Crack Injection	Foot	8
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	8
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	6



**PIER 3 ELEVATION**  
(East Face)


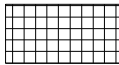



**PIER 3 ELEVATION**  
(West Face)

**NOTE:**

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Structural Repair of Concrete (Depth Greater than 5 inches)
-  Epoxy Crack Injection (Width > 0.06")
- LF Linear Foot
- SF Square Foot

MODEL: Default  
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

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

**PIER 3 REPAIRS**  
**STRUCTURE NO. 016-0225**

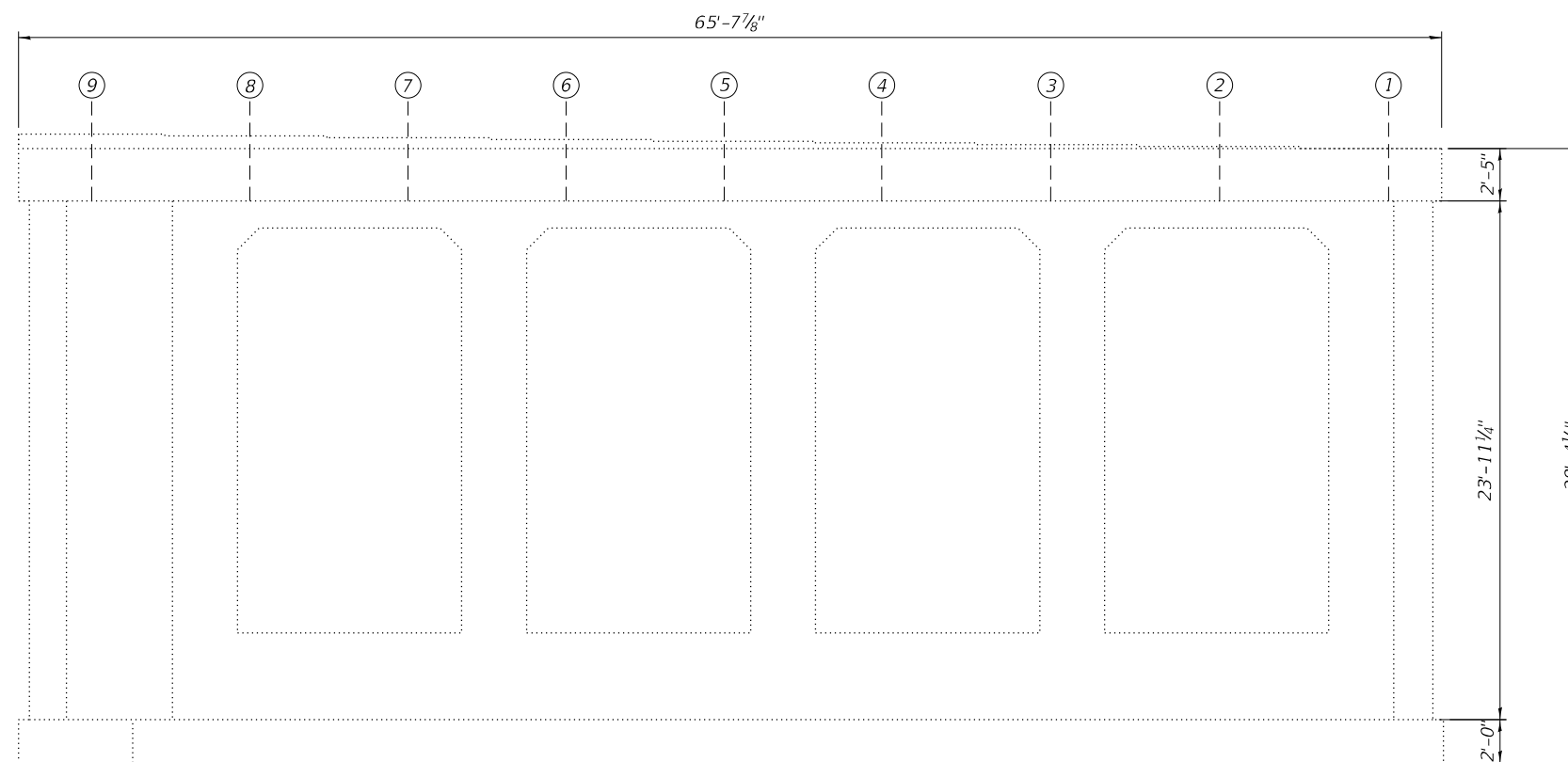
SHEET S37 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62R99	

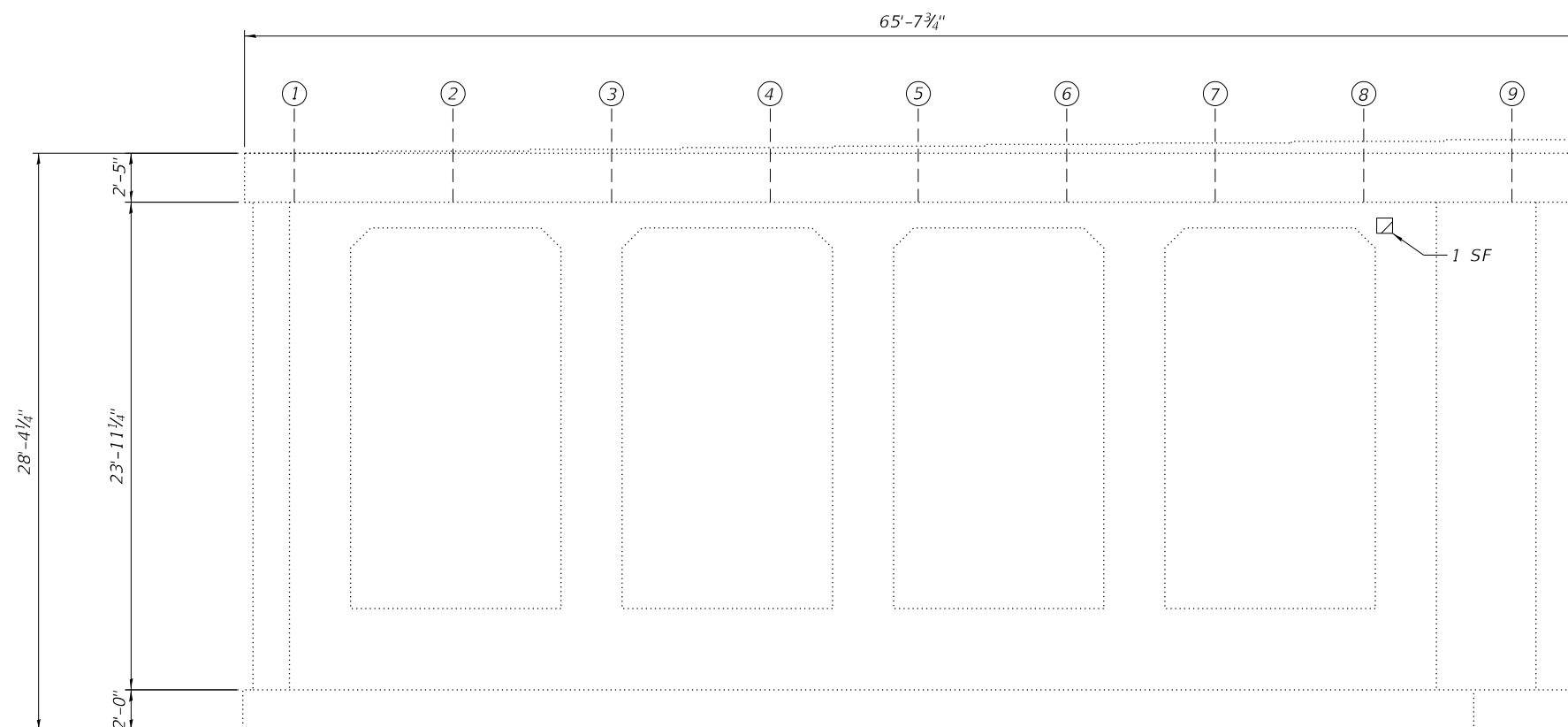
ILLINOIS FED. AID PROJECT

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	330
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	1



**PIER 4 ELEVATION**  
(East Face)




**PIER 4 ELEVATION**  
(West Face)

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
- Concrete Sealer shall be applied to the top face of the pier cap.

**LEGEND**

 Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

SF Square Foot

MODEL: Default  
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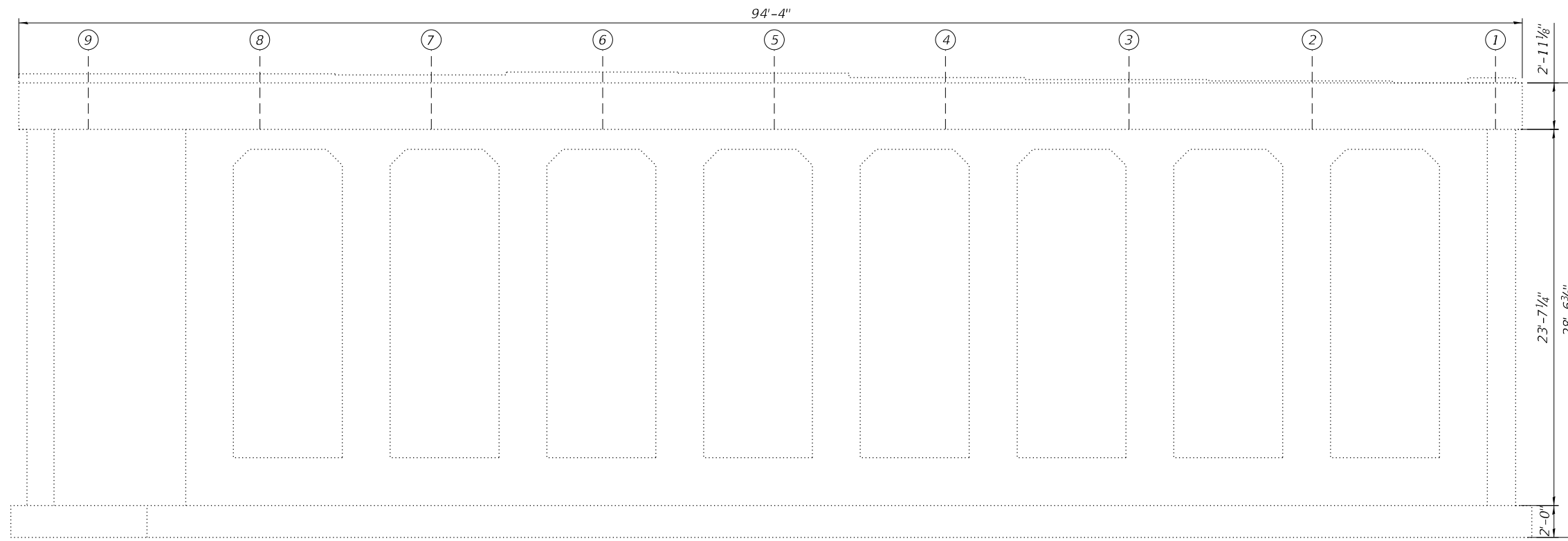
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 4 REPAIRS**  
**STRUCTURE NO. 016-0225**

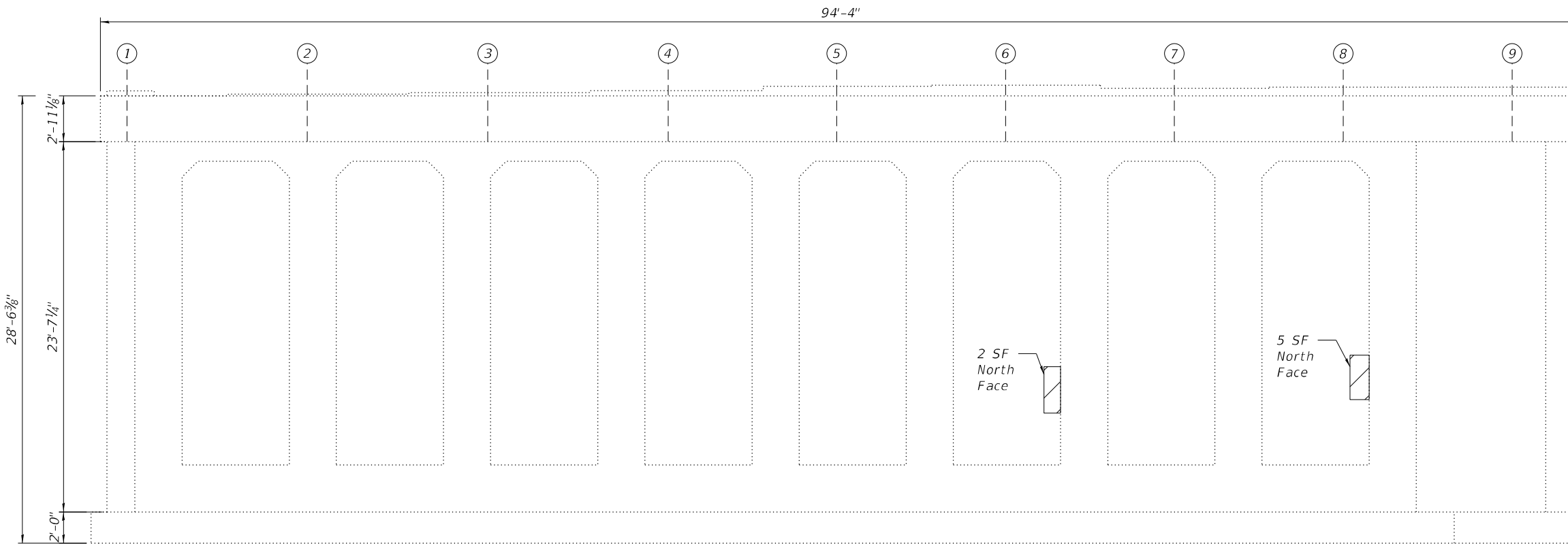
SHEET S38 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62R99	
		ILLINOIS FED. AID PROJECT		

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 10/25/2024 8:57:53 AM



**PIER 5 ELEVATION**  
 (East Face)



**PIER 5 ELEVATION**  
 (West Face)


**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
- Concrete Sealer shall be applied to the top face of the pier cap.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	475
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	7

**LEGEND**

 Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

SF Square Foot



USER NAME =	DESIGNED - AWD	REVISED -
	CHECKED - LAB, MI	REVISED -
PLOT SCALE =	DRAWN - AWD	REVISED -
PLOT DATE =	CHECKED - LAB, MI	REVISED -

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

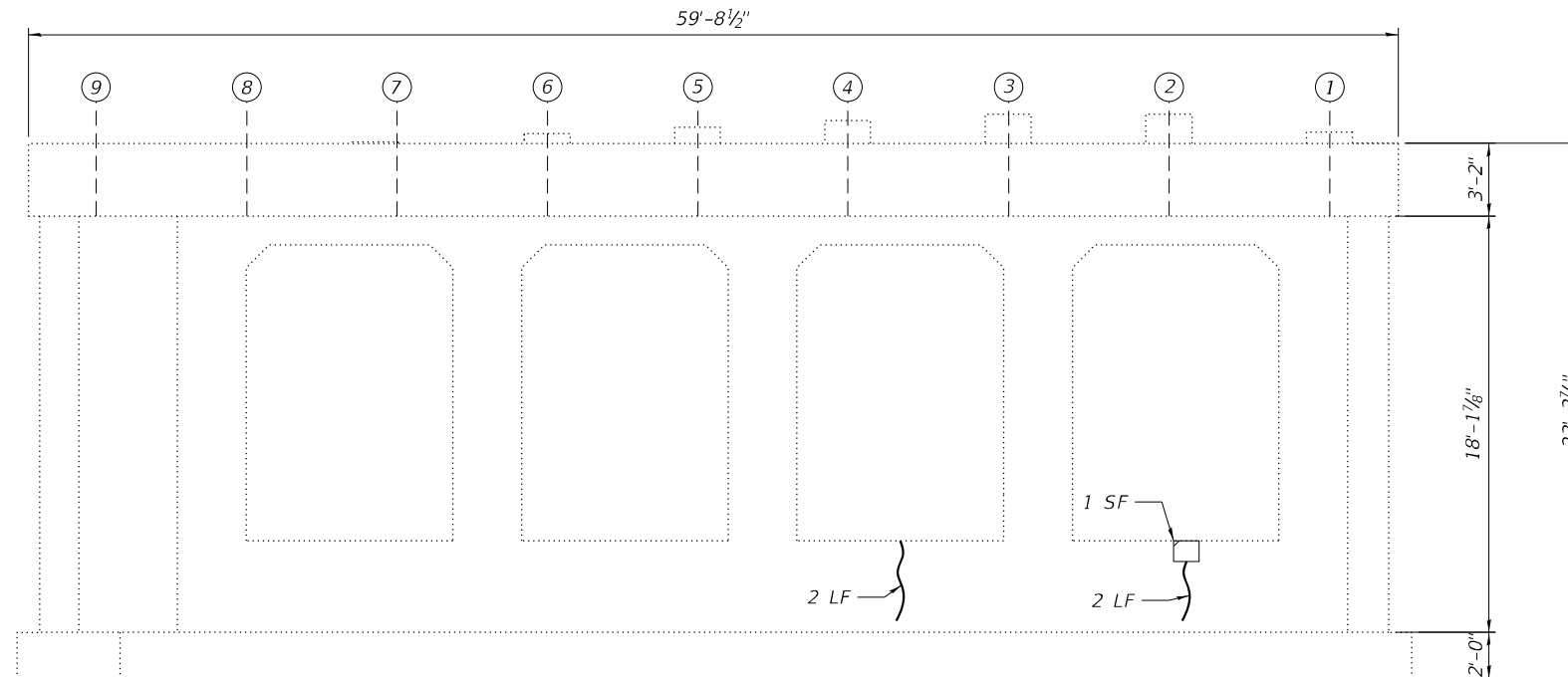
**PIER 5 REPAIRS**  
**STRUCTURE NO. 016-0225**

SHEET S39 OF S50 SHEETS

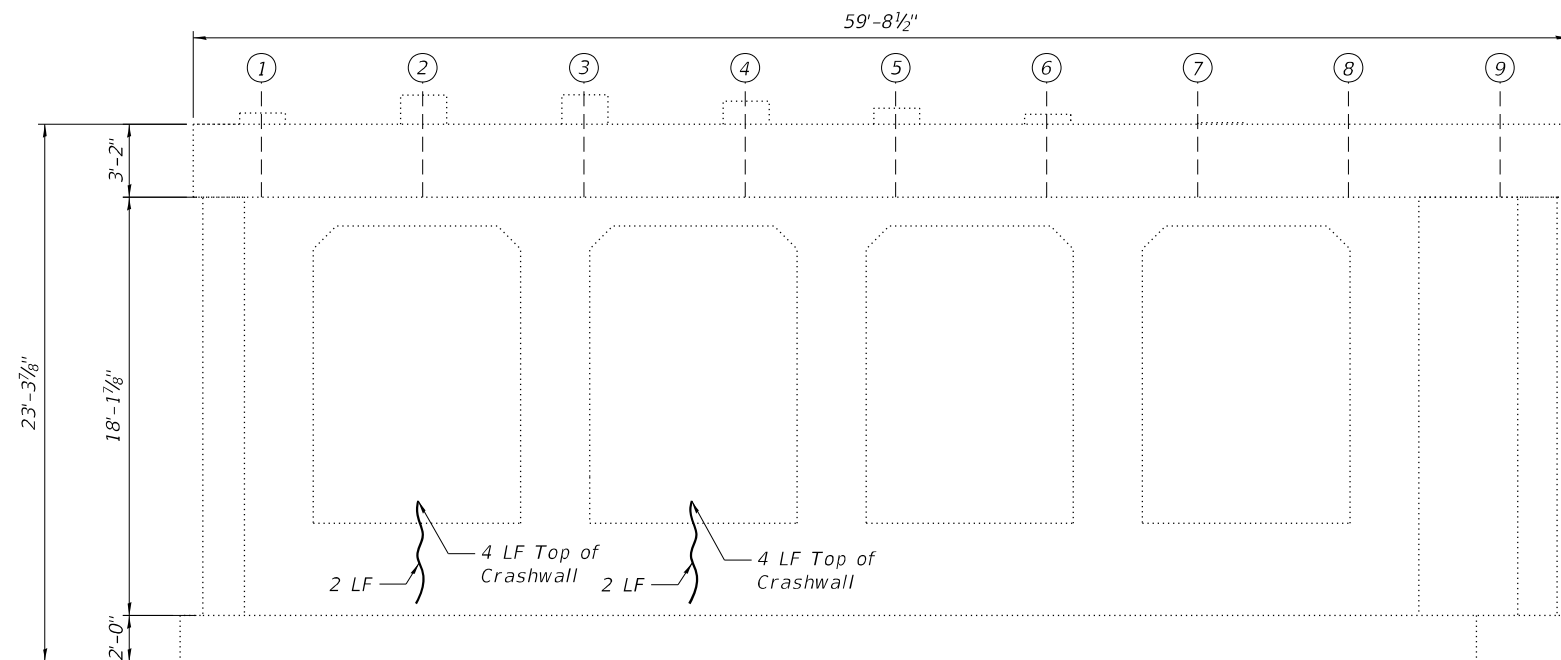
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	64
			CONTRACT NO. 62R99	
		ILLINOIS FED. AID PROJECT		

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	300
Epoxy Crack Injection	Foot	16
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	1





**PIER 6 ELEVATION**  
(East Face)



**PIER 6 ELEVATION**  
(West Face)

**LEGEND**

 Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

 Epoxy Crack Injection (Width > 0.06")

LF Linear Foot

SF Square Foot

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
- Concrete Sealer shall be applied to the top face of the pier cap.

MODEL: Default  
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USER NAME =	DESIGNED - AWD	REVISED -
	CHECKED - LAB, MI	REVISED -
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

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

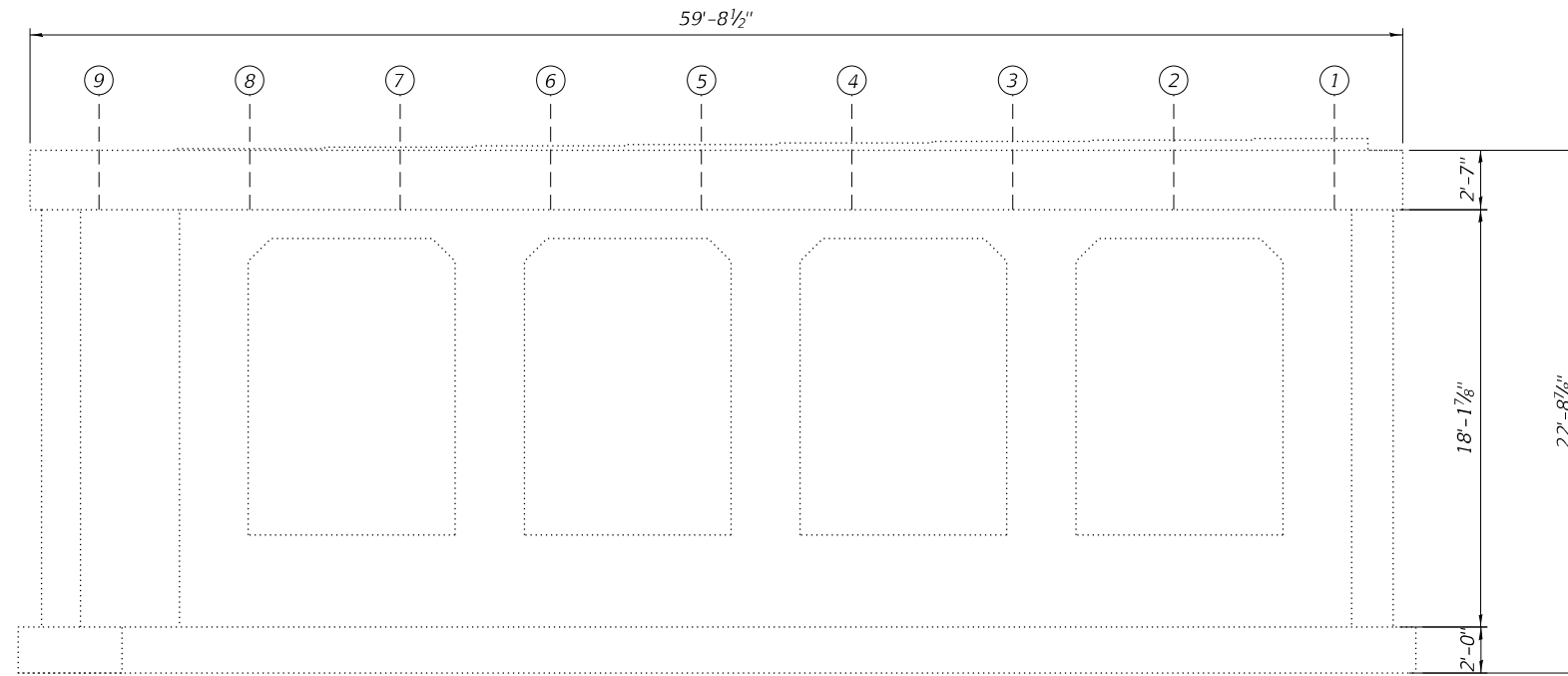
**PIER 6 REPAIRS**  
**STRUCTURE NO. 016-0225**

SHEET S40 OF S50 SHEETS

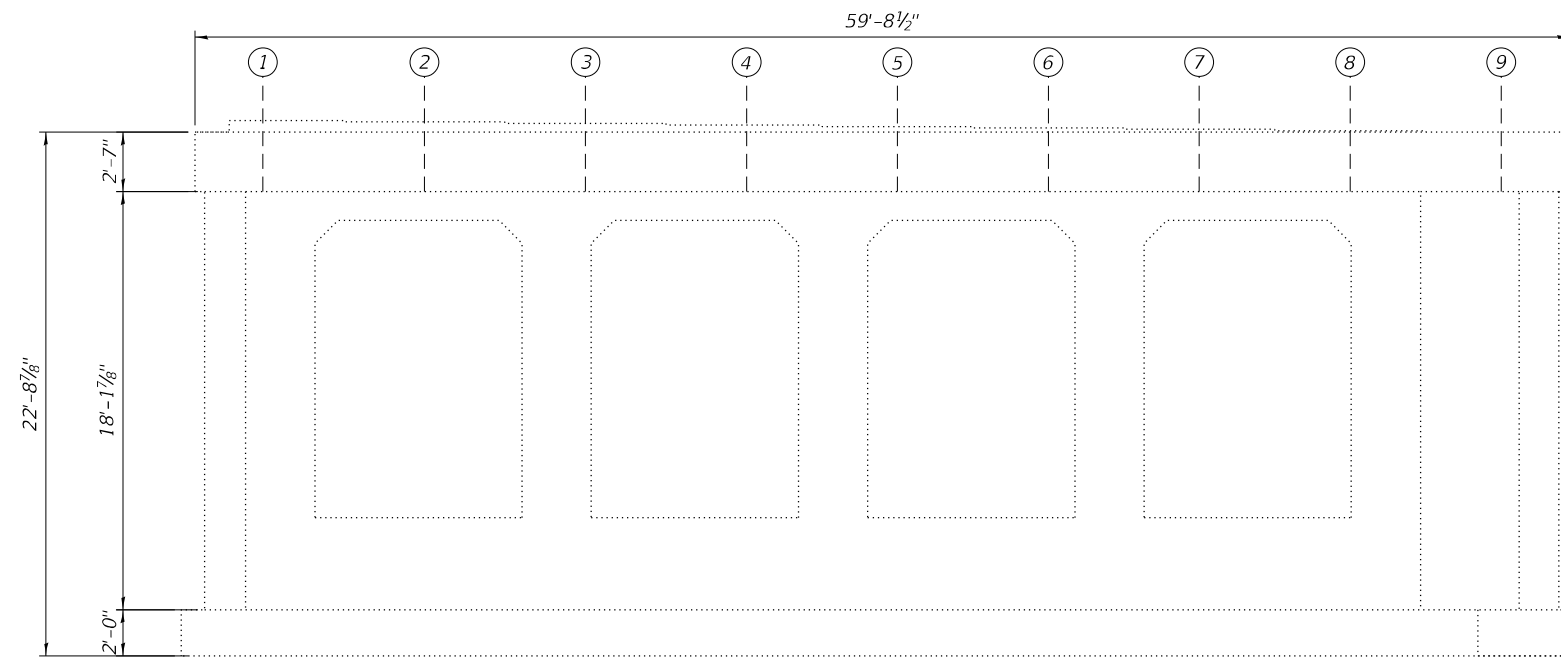
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	65
			CONTRACT NO. 62R99	

ILLINOIS FED. AID PROJECT

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 10/25/2024 8:58:08 AM



**PIER 7 ELEVATION**  
 (East Face)



**PIER 7 ELEVATION**  
 (West Face)

**NOTE:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**



Structural Repair of Concrete  
 (Depth Equal to or Less than  
 5 inches)



Epoxy Crack Injection (Width  
 > 0.06")

LF Linear Foot

SF Square Foot



USER NAME =	DESIGNED - AWD	REVISED -
	CHECKED - LAB, MI	REVISED -
PLOT SCALE =	DRAWN - AWD	REVISED -
PLOT DATE =	CHECKED - LAB, MI	REVISED -

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

**PIER 7 REPAIRS**  
**STRUCTURE NO. 016-0225**

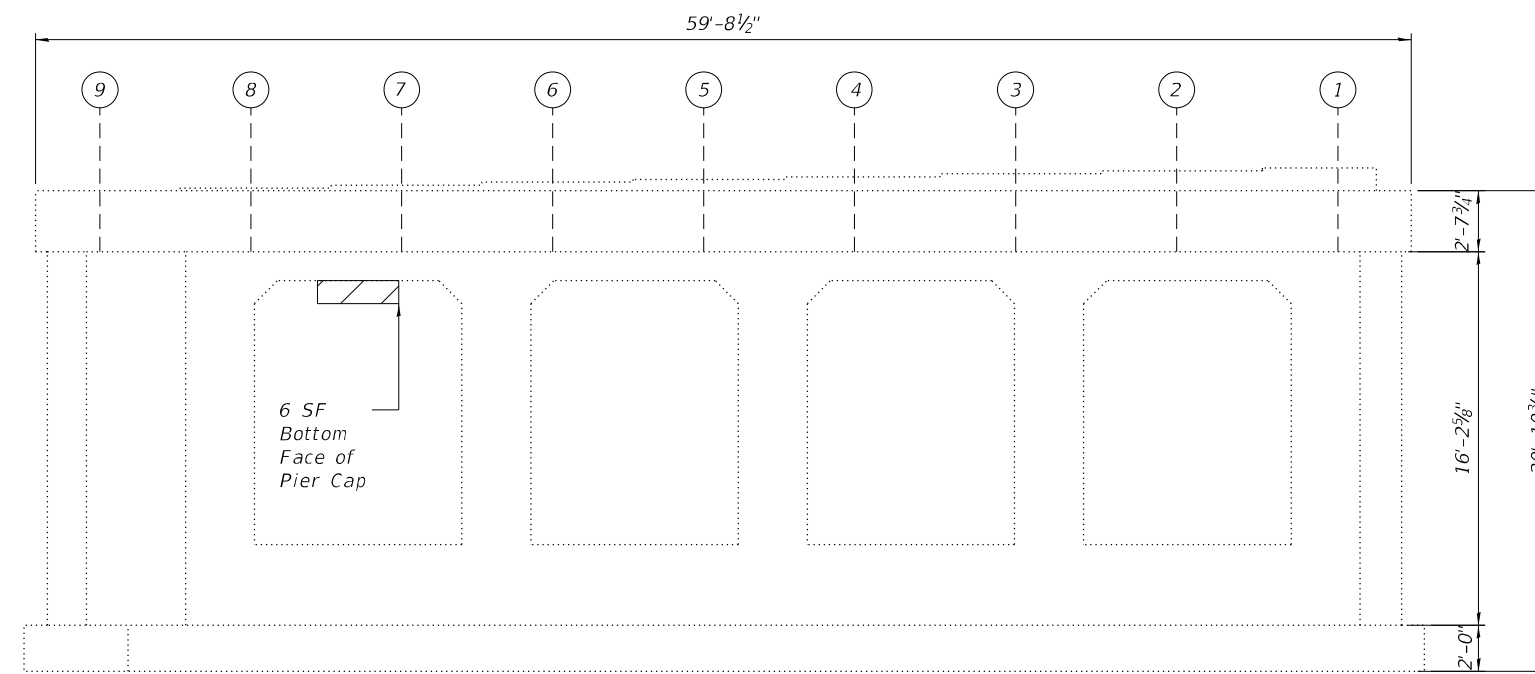
SHEET S41 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62R99	
		ILLINOIS	FED. AID PROJECT	

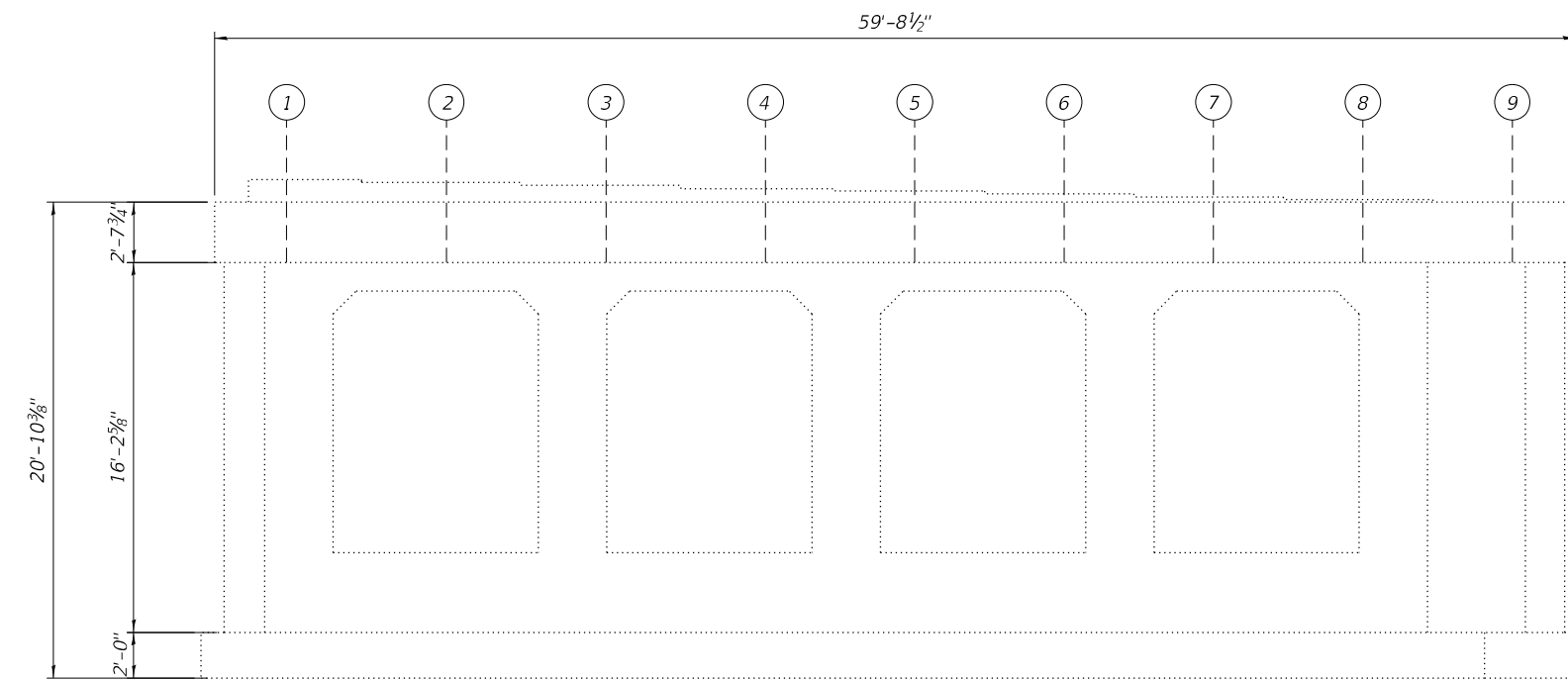


**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	6



**PIER 8 ELEVATION**  
(East Face)



**PIER 8 ELEVATION**  
(West Face)

**NOTE:**

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**



Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

SF Square Foot

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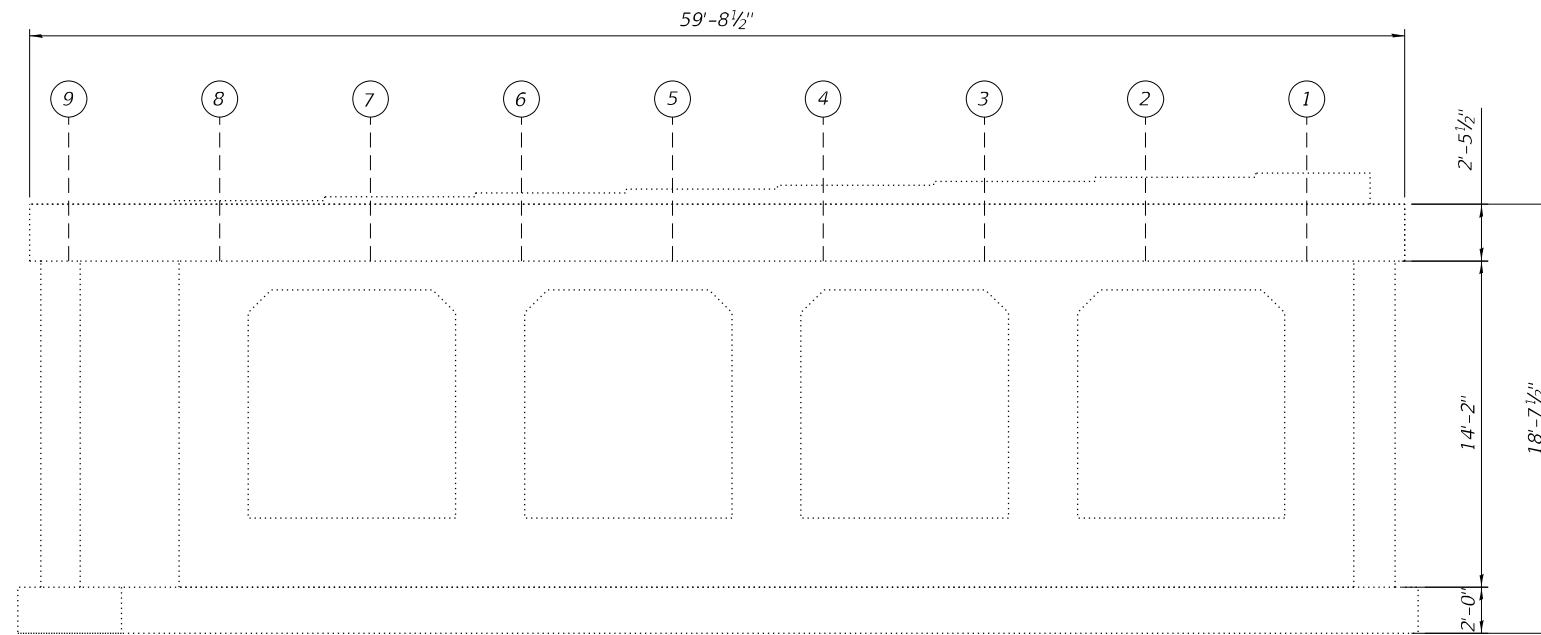
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

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

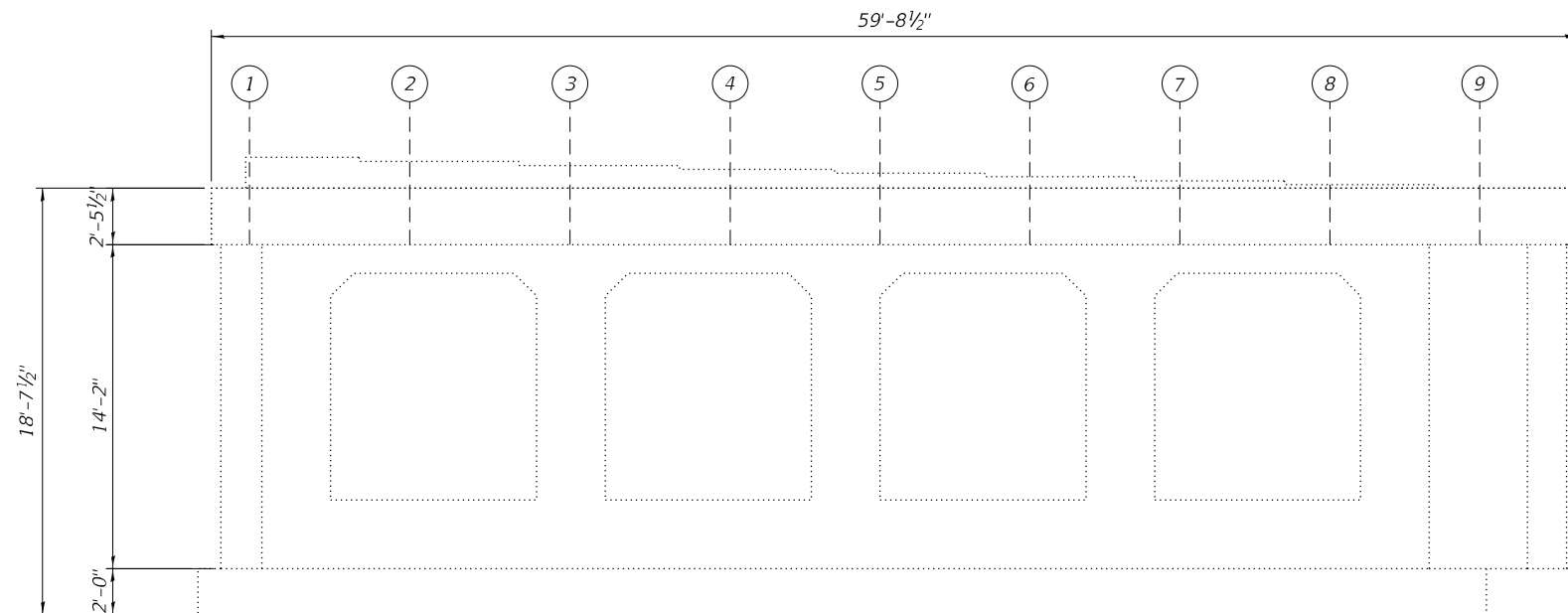
**PIER 8 REPAIRS**  
**STRUCTURE NO. 016-0225**

SHEET S42 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	67
			CONTRACT NO. 62R99	
		ILLINOIS	FED. AID PROJECT	



**PIER 9 ELEVATION**  
(East Face)





**PIER 9 ELEVATION**  
(West Face)

**NOTE:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Epoxy Crack Injection (Width > 0.06")
- LF Linear Foot
- SF Square Foot

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

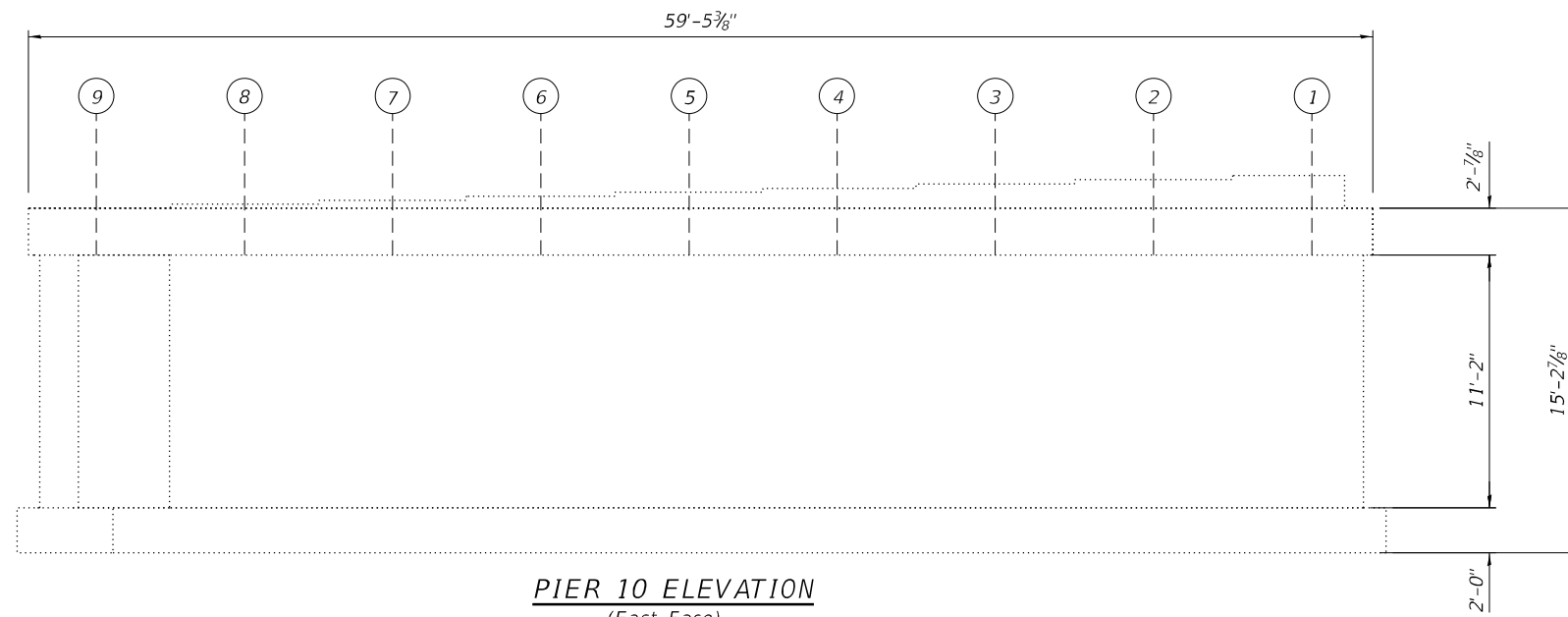
**PIER 9 REPAIRS  
STRUCTURE NO. 016-0225**

SHEET S43 OF S50 SHEETS

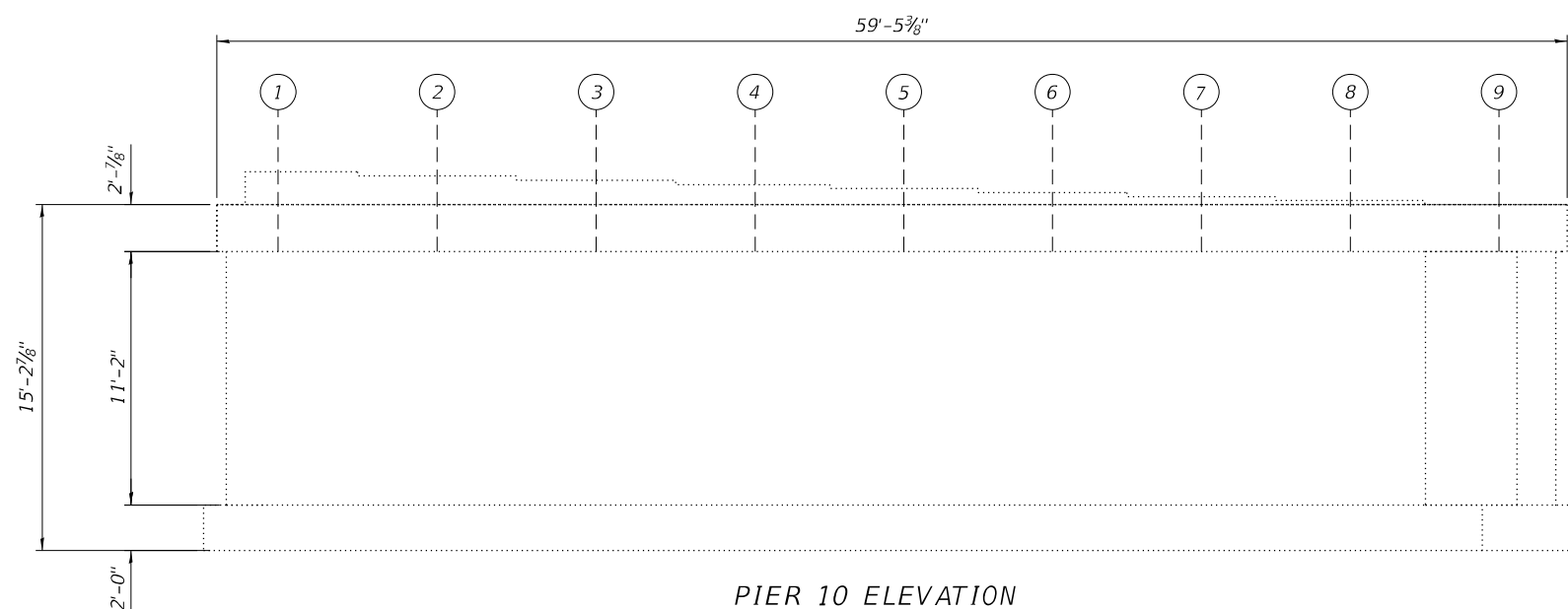
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	68
			CONTRACT NO. 62R99	

ILLINOIS FED. AID PROJECT

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**PIER 10 ELEVATION**  
 (East Face)





**PIER 10 ELEVATION**  
 (West Face)

**NOTE:**

1. Quantities and limits shown are estimated for bidding purposes only.  
 The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**

-  Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
-  Epoxy Crack Injection (Width > 0.06")
- LF Linear Foot
- SF Square Foot



USER NAME =	DESIGNED - AWD	REVISED -
	CHECKED - LAB, MI	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

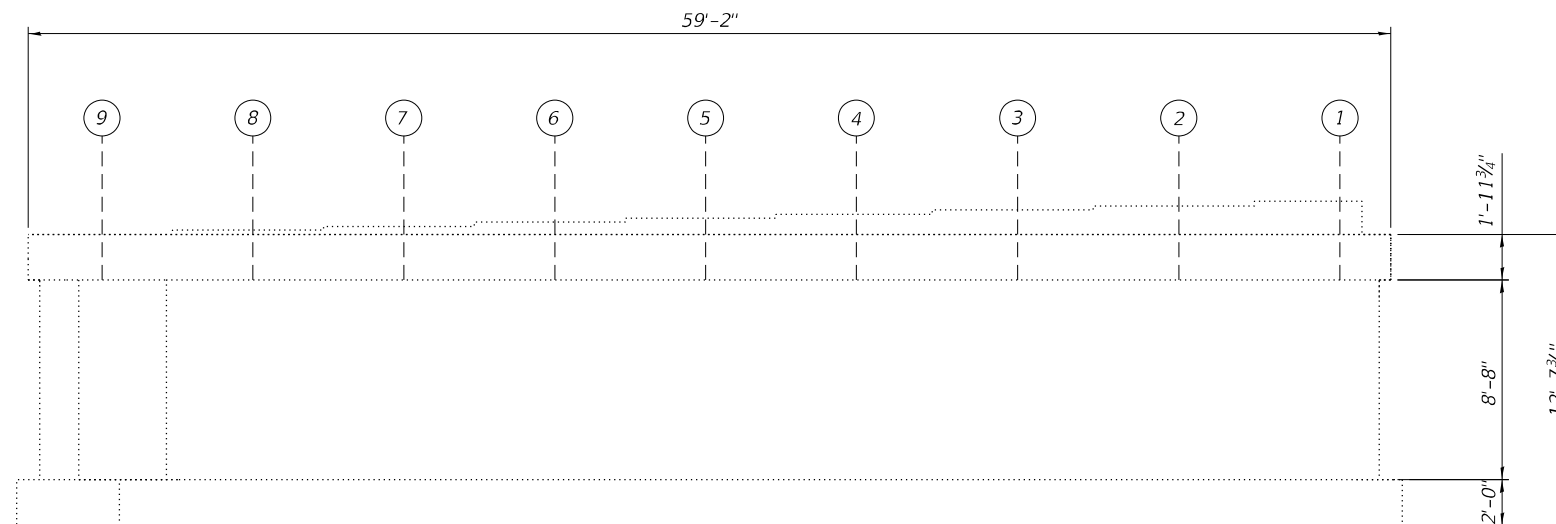
**PIER 10 REPAIRS**  
**STRUCTURE NO. 016-0225**

SHEET S44 OF S50 SHEETS

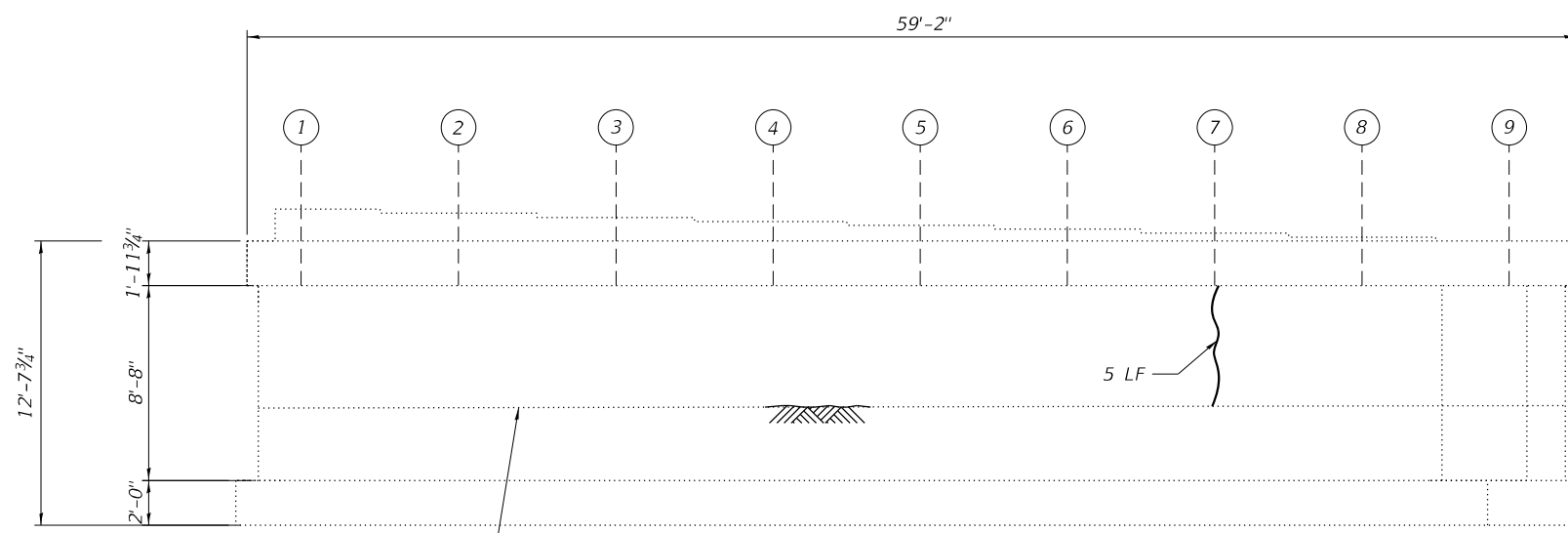
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0311	FAP 0311 22 BJ	COOK	83	69
			CONTRACT NO. 62R99	
		ILLINOIS	FED. AID PROJECT	

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Epoxy Crack Injection	Foot	5



**PIER 11 ELEVATION**  
(West Face)



**PIER 11 ELEVATION**  
(East Face)

**NOTE:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

**LEGEND**

- Epoxy Crack Injection (Width > 0.06")
- Linear Foot

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

**PIER 11 REPAIRS**  
**STRUCTURE NO. 016-0225**

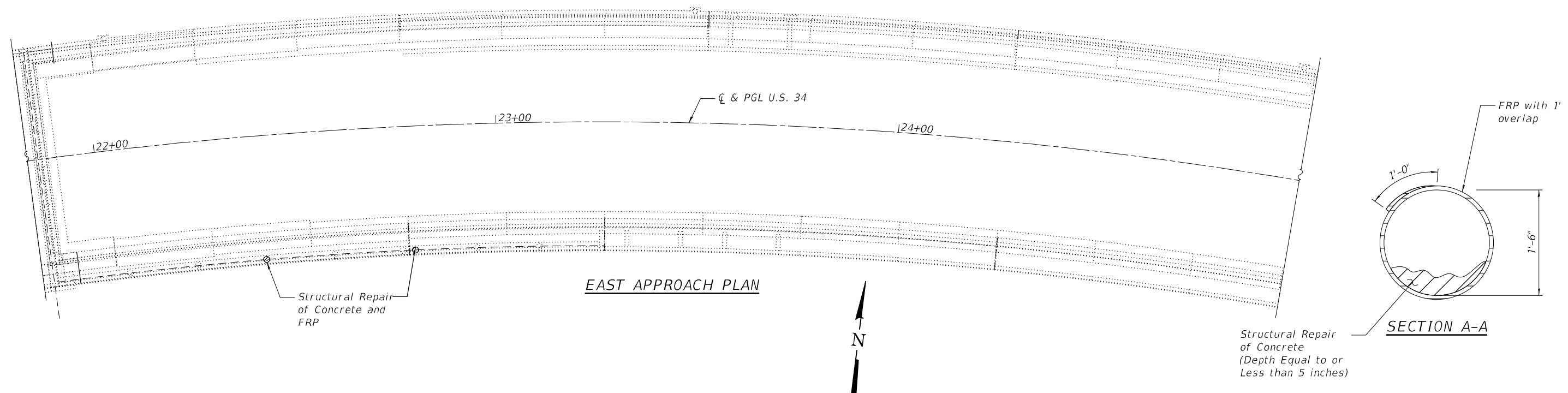
SHEET S45 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	70
			CONTRACT NO. 62R99	
		ILLINOIS	FED. AID PROJECT	



**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Acrylic Coating	Sq Yd	6.5
Fiber Wrap	Sq Ft	58
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	10

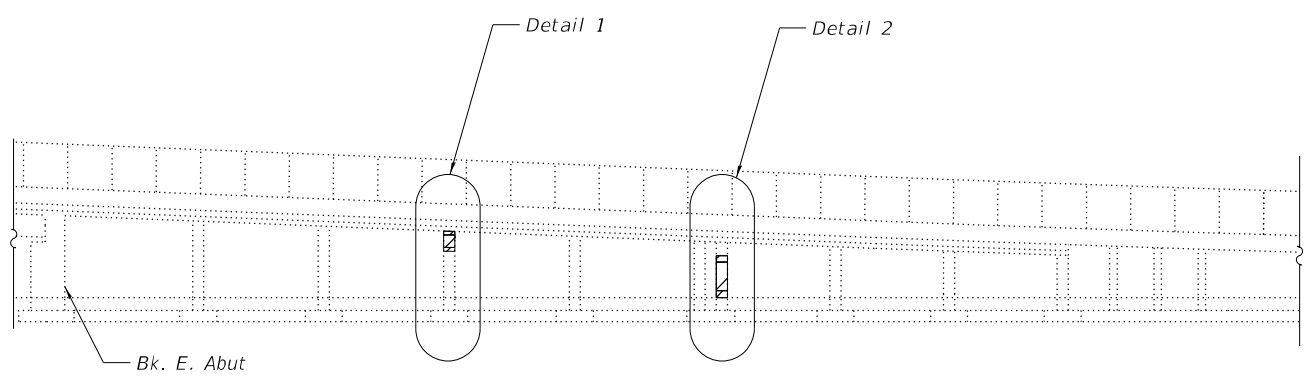


**EAST APPROACH PLAN**

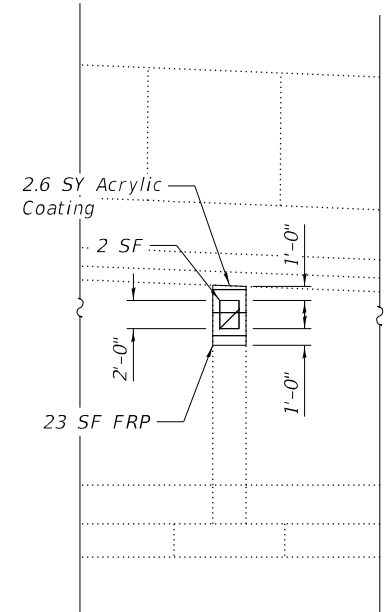
**SECTION A-A**

**NOTES:**

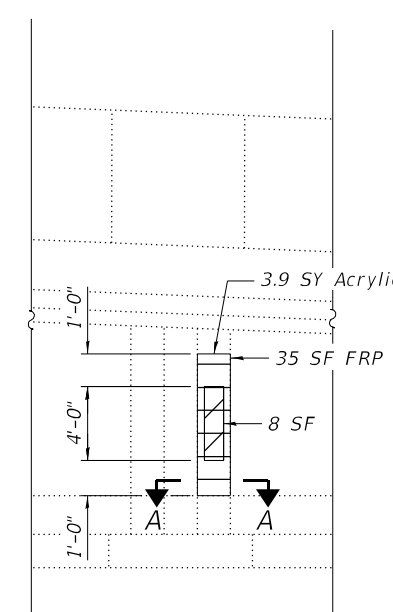
1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. The contractor shall take all necessary precautions for the protection of passing vehicles, bicycles and pedestrians from falling objects and/or materials until the completion of the work.
3. The contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5").
4. See Special Provision for "Fiber Wrap".



**EAST APPROACH ELEVATION**  
(South Face)



**DETAIL 1**



**DETAIL 2**

**LEGEND**

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Fiber Wrap Repair (FRP)
- SF Square Feet
- SY Square Yard

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PLOT DATE =	CHECKED - LAB, MI	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST APPROACH COLUMN REPAIRS  
STRUCTURE NO. 016-0225**

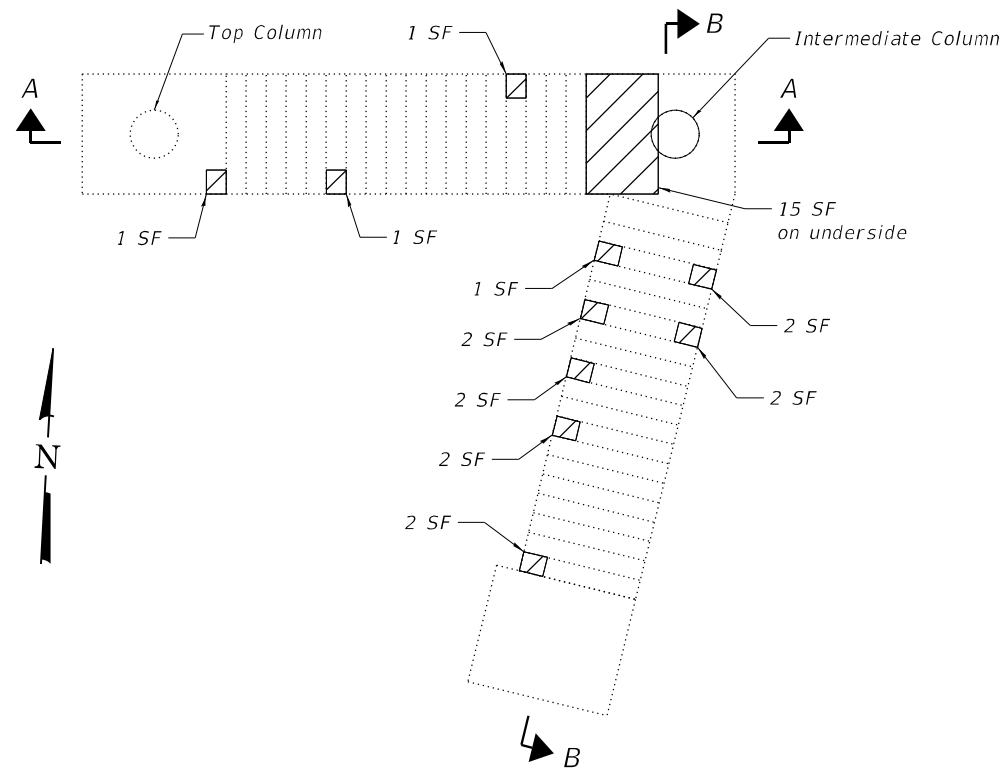
SHEET S47 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	72
CONTRACT NO. 62R99				

ILLINOIS FED. AID PROJECT

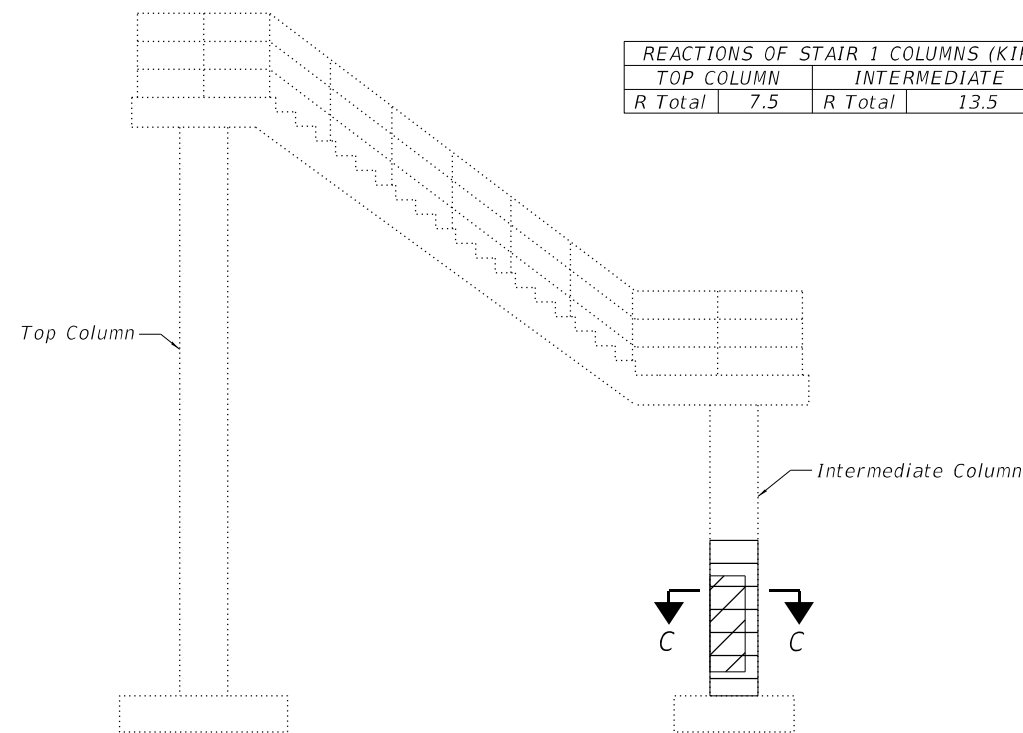
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Acrylic Coating	Sq Yd	4.9
Fiber Wrap	Sq Ft	44
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	37
Temporary Shoring And Cribbing	Each	1

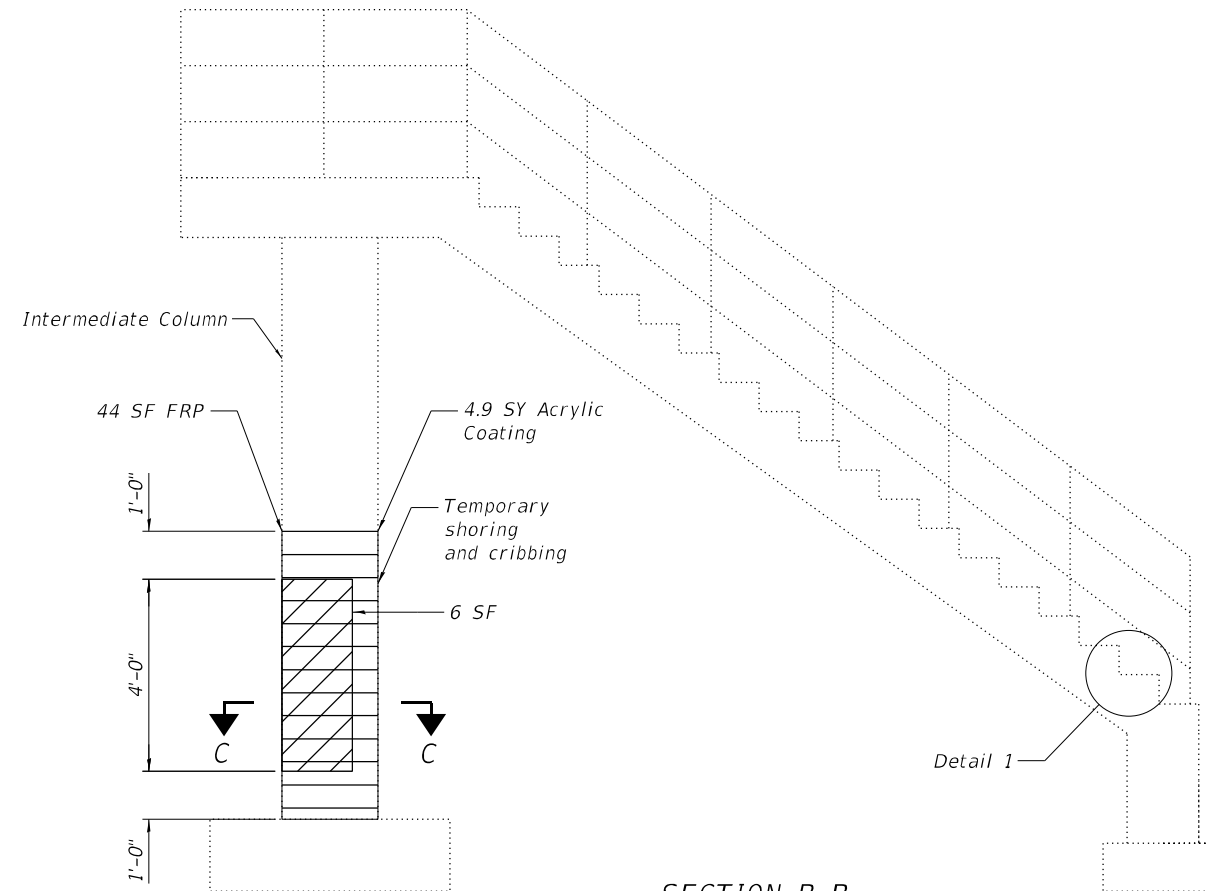


**STAIR 1 PLAN**

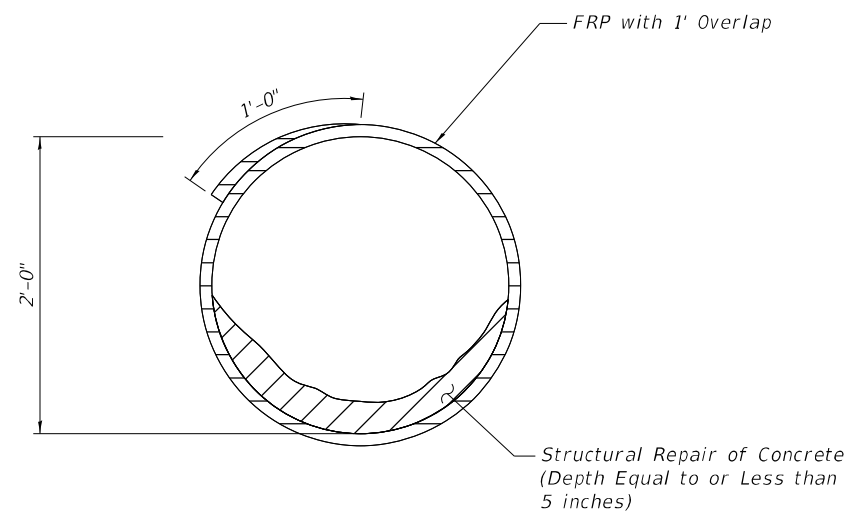
REACTIONS OF STAIR 1 COLUMNS (KIP)			
	TOP COLUMN	INTERMEDIATE	
R Total	7.5	13.5	



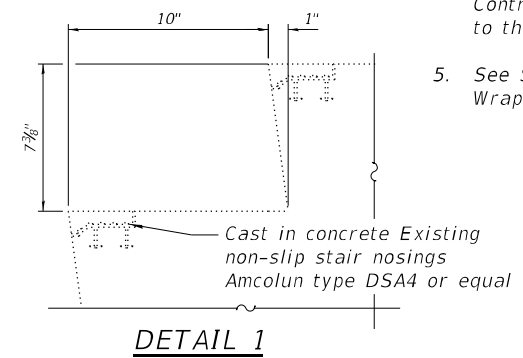
**SECTION A-A**



**SECTION B-B**



**SECTION C-C  
(Intermediate Column)**



**DETAIL 1**

**NOTES:**

- Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
- The contractor shall take all necessary precautions for the protection of passing vehicles, bicycles and pedestrians from falling objects and/or materials until the completion of the work.
- The contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5").
- Care shall be taken when performing concrete repairs to the existing stairs to not damage the existing non-slip nosing. Any damage to the existing nosing shall be repaired by the Contractor at no additional cost to the Department.
- See Special Provision for "Fiber Wrap".

**LEGEND**

	Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
	Fiber Wrap Repair (FRP)
SF	Square Foot
SY	Square Yard

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PLOT DATE =	CHECKED - LAB, MI	REVISED -

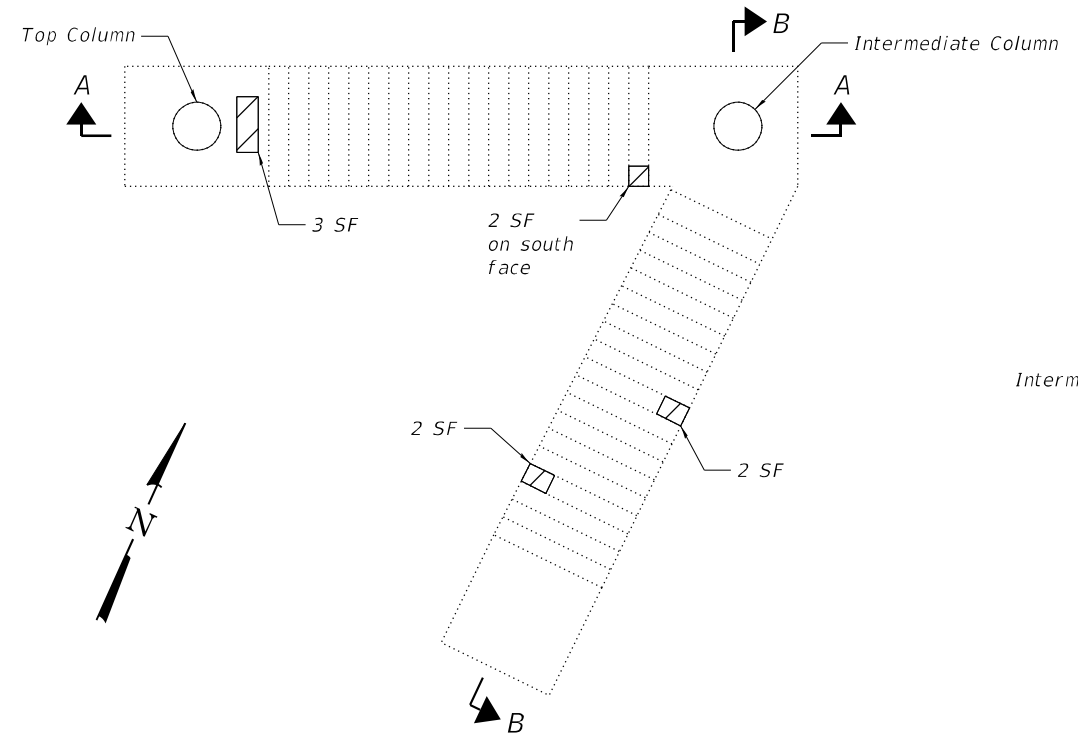
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAIR 1 REPAIRS  
STRUCTURE NO. 016-0225**

SHEET S48 OF S50 SHEETS

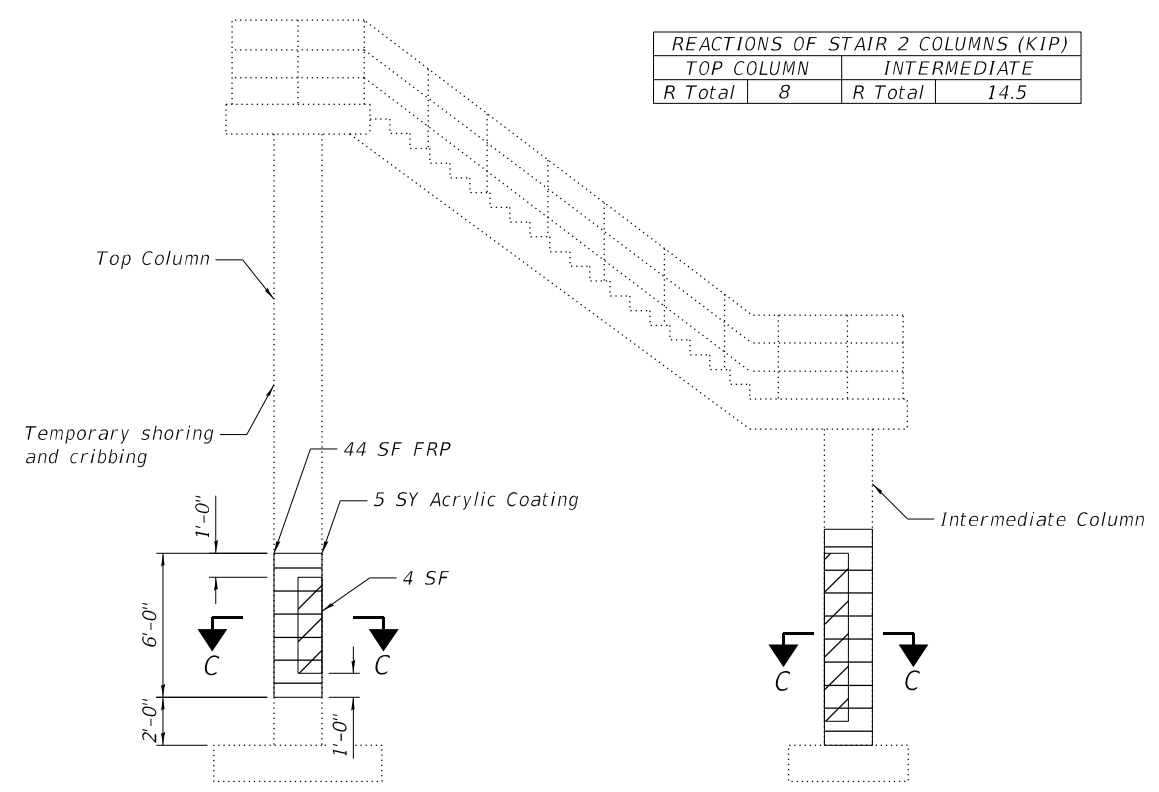
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0311	FAP 0311 22 BJ	COOK	83	73
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				

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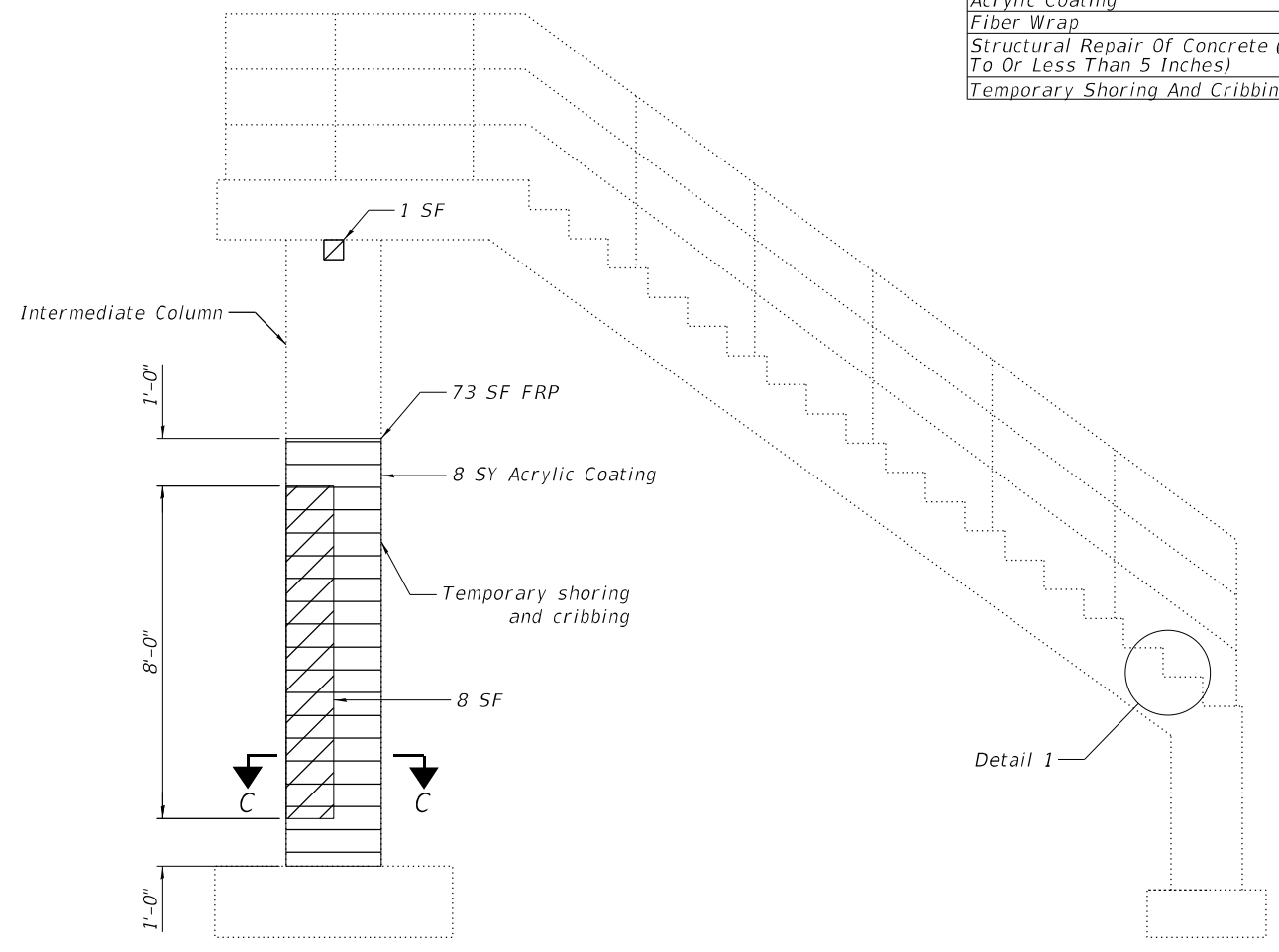


**STAIR 2 PLAN**

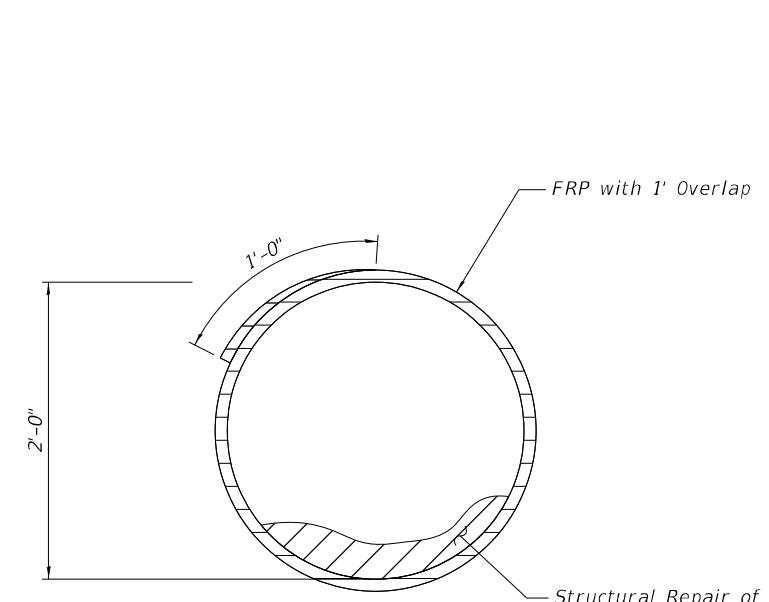
REACTIONS OF STAIR 2 COLUMNS (KIP)				
	TOP COLUMN		INTERMEDIATE	
R Total	8	R Total	14.5	



**SECTION A-A**



**SECTION B-B**



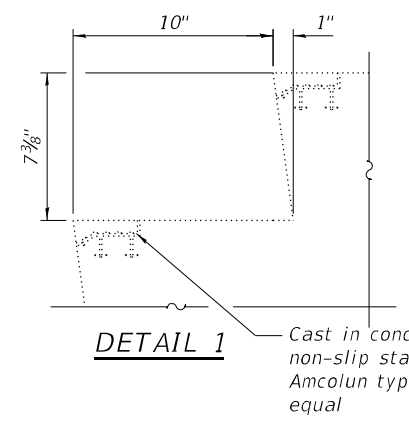
**SECTION C-C**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Acrylic Coating	Sq Yd	13.0
Fiber Wrap	Sq Ft	117
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	22
Temporary Shoring And Cribbing	Each	2

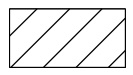
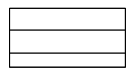
**NOTES:**

- Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
- The contractor shall take all necessary precautions for the protection of passing vehicles, bicycles and pedestrians from falling objects and/or materials until the completion of the work.
- The contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5").
- Care shall be taken when performing concrete repairs to the existing stairs to not damage the existing non-slip nosing. Any damage to the existing nosing shall be repaired by the Contractor at no additional cost to the Department.
- See Special Provisions for "Fiber Wrap".



**DETAIL 1**

**LEGEND**

	Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
	Fiber Wrap Repair (FRP)
SF	Square Foot
SY	Square Yard



USER NAME =	DESIGNED - AWD, DEO	REVISED -
	CHECKED - LAB, MI	REVISED -
PLOT SCALE =	DRAWN - AWD, DEO	REVISED -
PLOT DATE =	CHECKED - LAB, MI	REVISED -

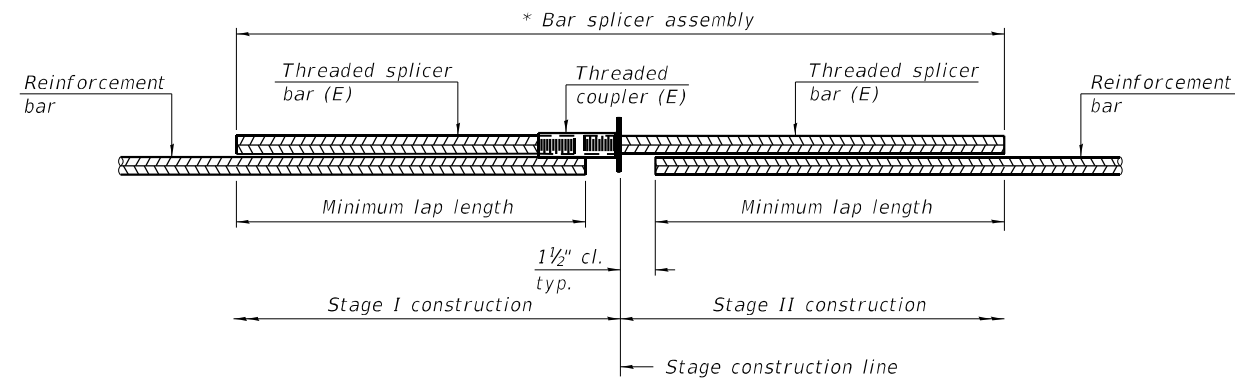
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAIR 2 REPAIRS  
 STRUCTURE NO. 016-0225**

SHEET S49 OF S50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	74
CONTRACT NO. 62R99				
ILLINOIS FED. AID PROJECT				





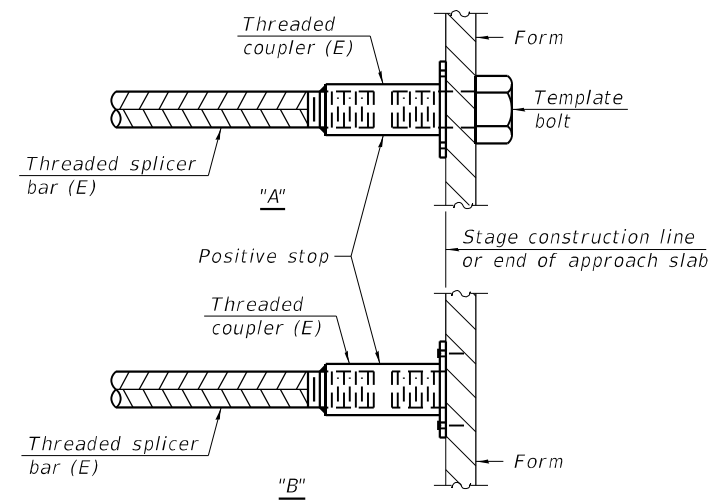
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

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

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

Location	Bar Size	No. assemblies	Minimum lap length
West Abutment Exp. Jt.	#5	9	3'-6"
	#6	6	4'-0"
Pier 4 Exp. Jt.	#5	18	3'-6"
Pier 5 Exp. Jt.	#5	18	3'-6"
Pier 6 Exp. Jt.	#5	18	3'-6"
East Abutment Exp. Jt.	#5	9	3'-6"
	#6	6	4'-0"

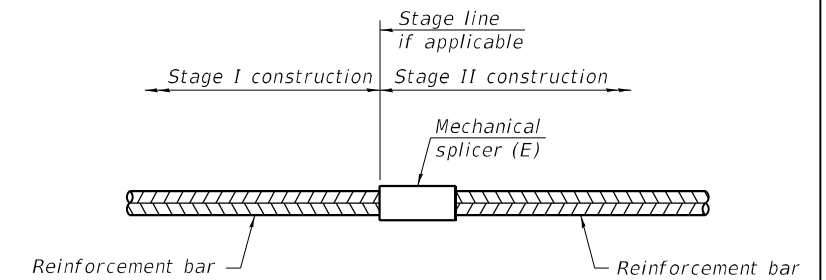


**INSTALLATION AND SETTING METHODS**

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

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

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**Notes:**

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

All reinforcement shall be lapped and tied to the splicer bars.

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

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

BSD-1

5-15-2023

MODEL: Default  
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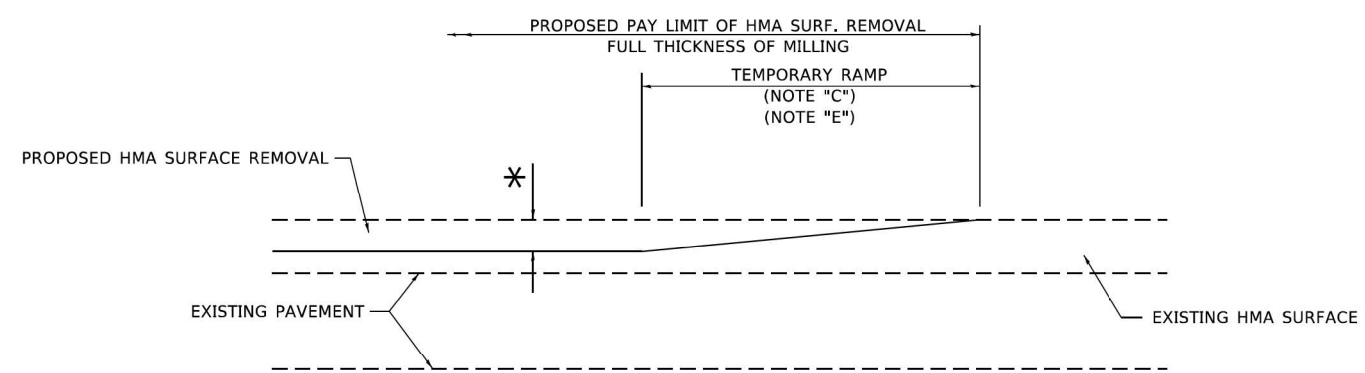
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PLOT DATE =	CHECKED - LAB, MI	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS  
STRUCTURE NO. 016-0225

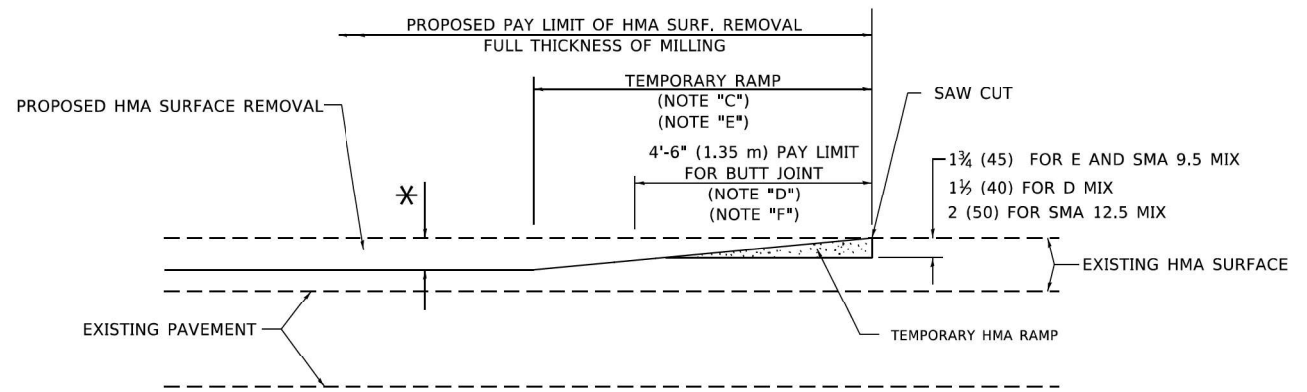
SHEET 550 OF 550 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0311	FAP 0311 22 BJ	COOK	83	75
CONTRACT NO. 62R99			ILLINOIS FED. AID PROJECT	



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

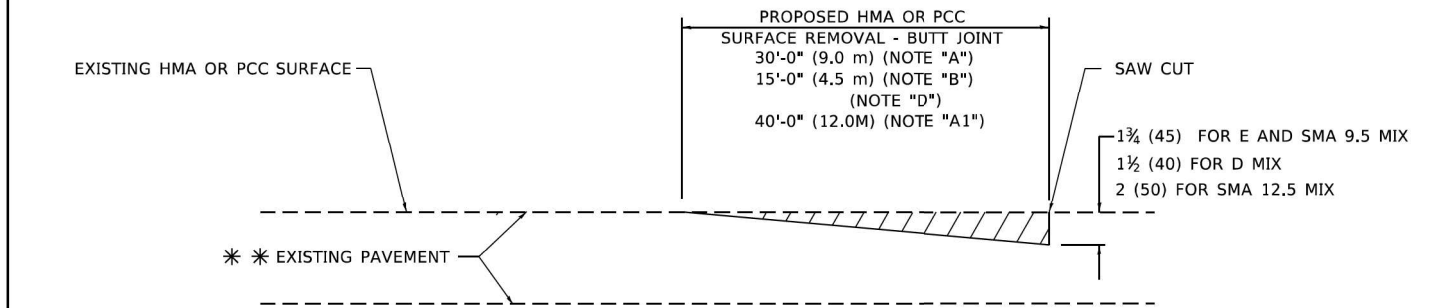
**OPTION 1**



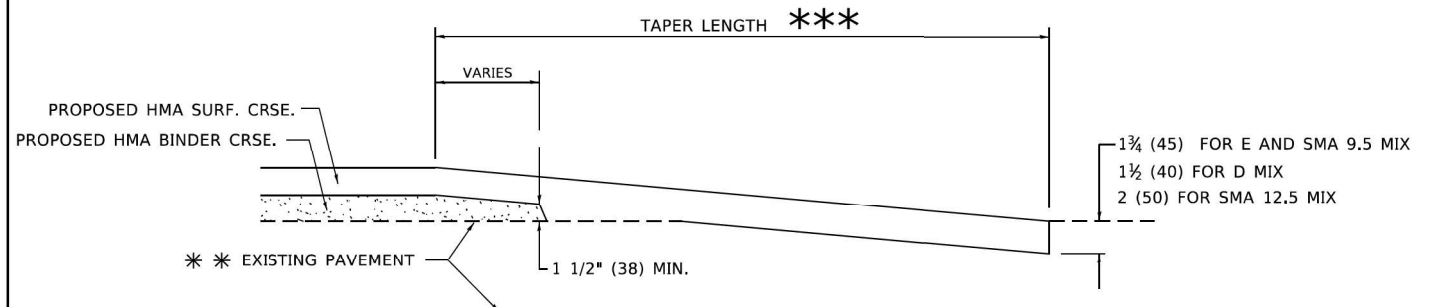
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

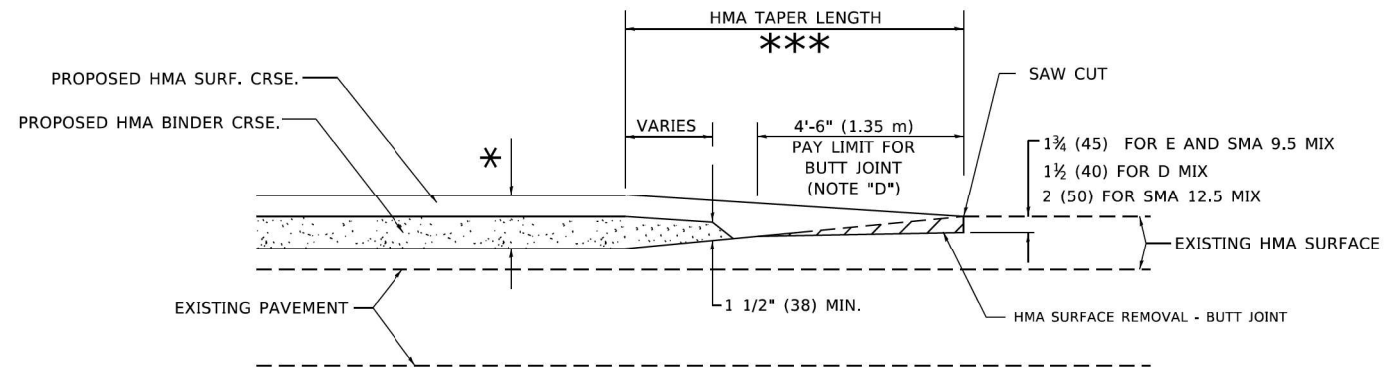
**GENERAL NOTES**

- 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.



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

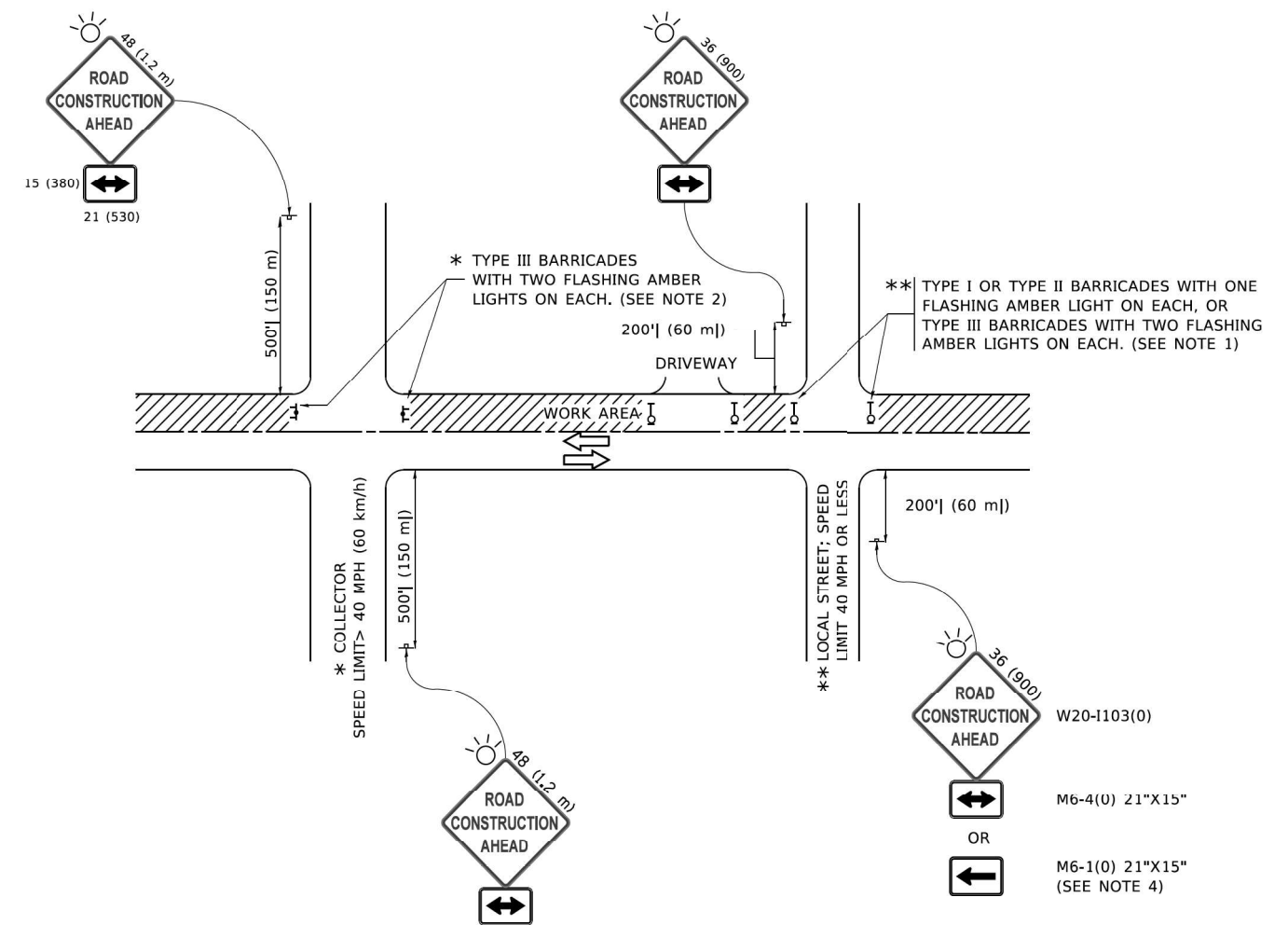
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	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	76
<b>BD400-05 BD-32</b>		CONTRACT NO. 62R99		
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

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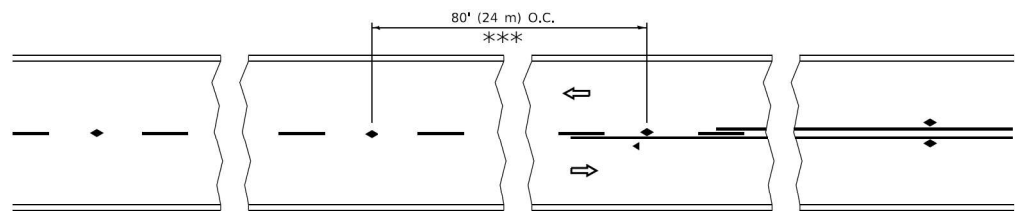
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

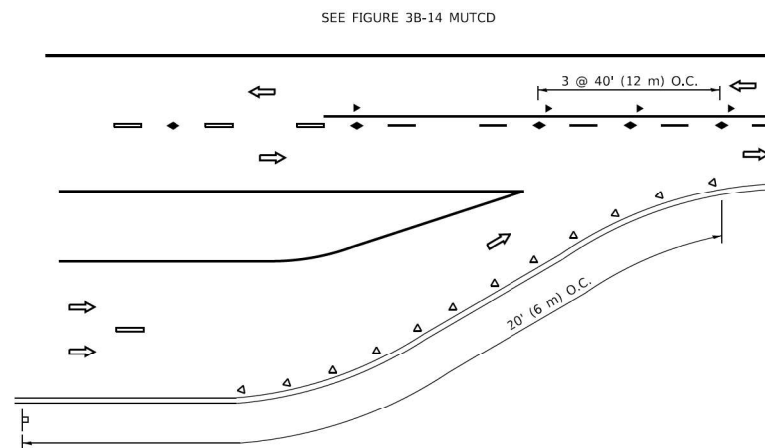
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 62R99	
ILLINOIS FED. AID PROJECT				

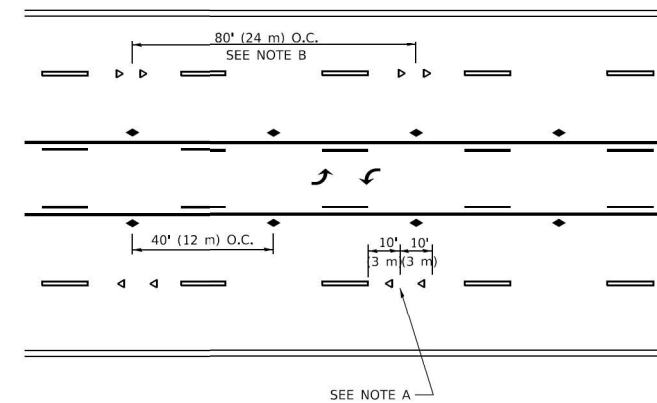


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

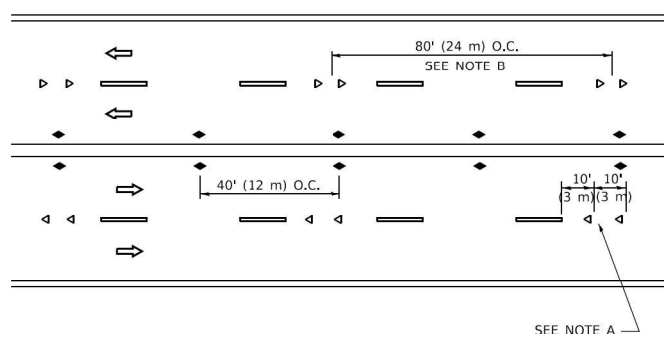
**TWO-LANE/TWO-WAY**



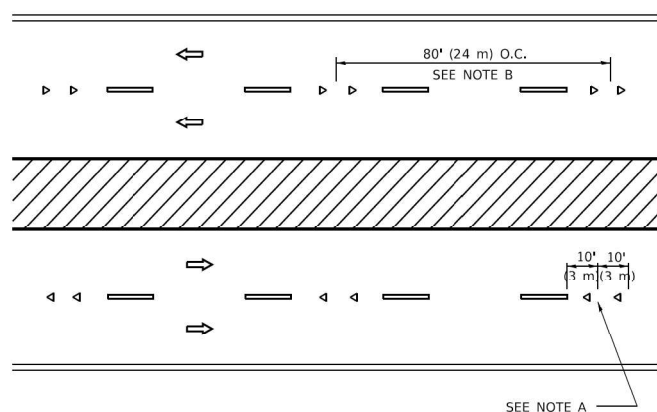
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

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

**SYMBOLS**

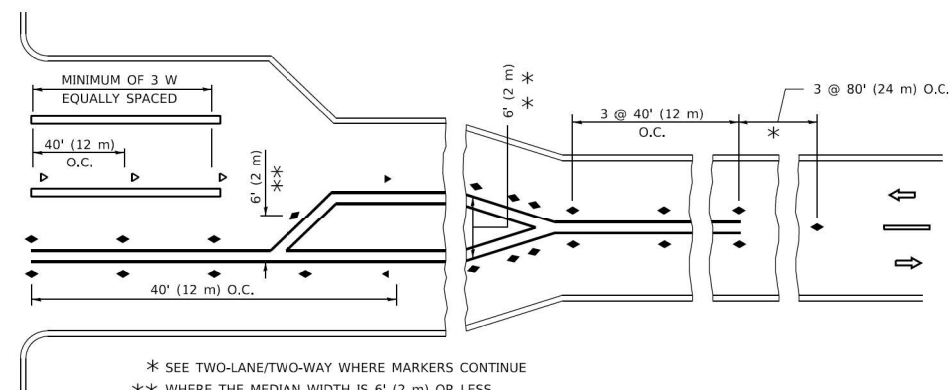
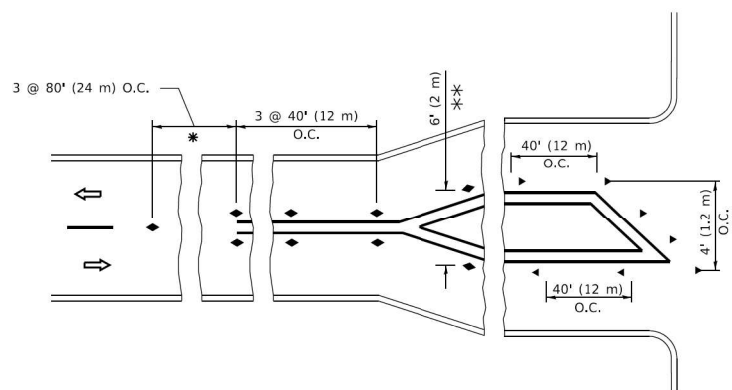
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

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

**DESIGN NOTES**

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



**TURN LANES**

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

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

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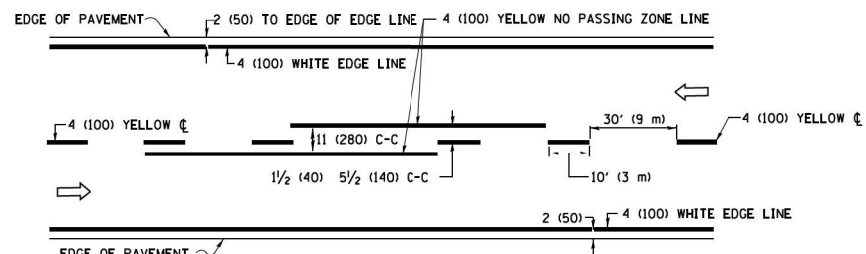
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

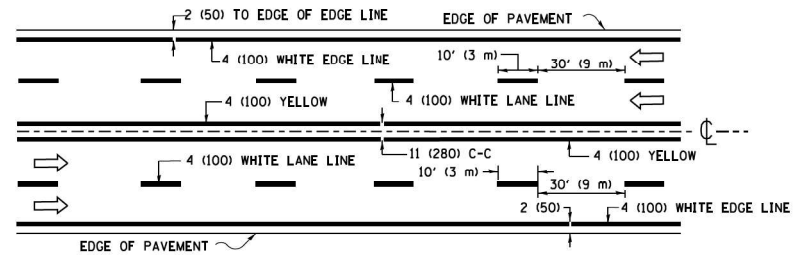
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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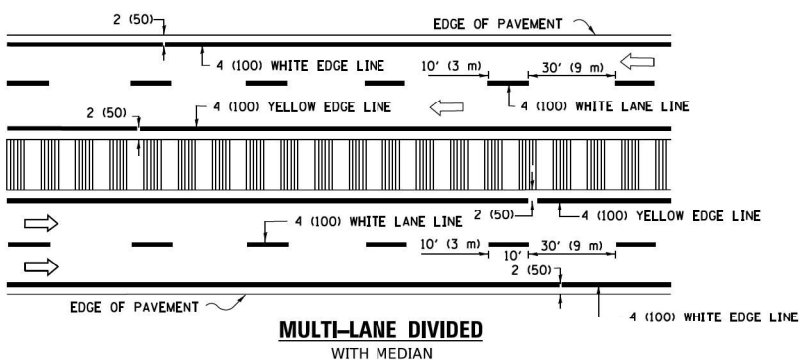
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 B1	COOK	83	78
TC-11		CONTRACT NO. 62R99		
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

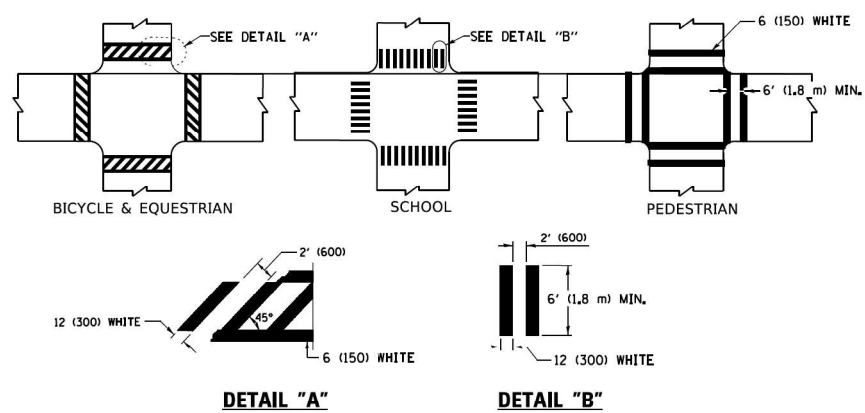


**MULTI-LANE UNDIVIDED**



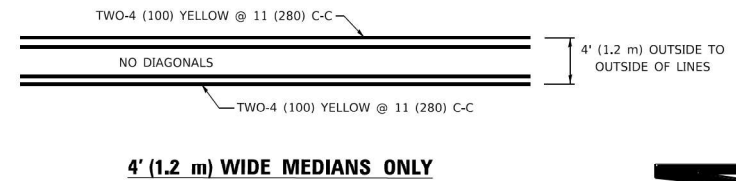
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

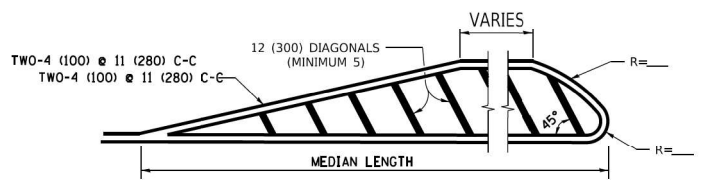


**TYPICAL CROSSWALK MARKING**

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

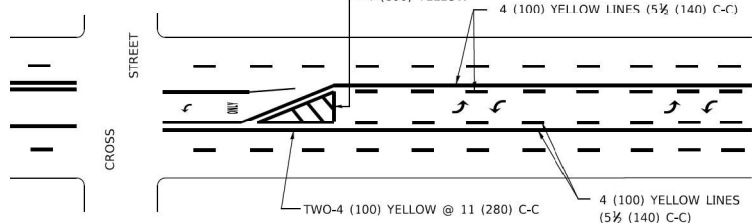


**4' (1.2 m) WIDE MEDIANS ONLY**



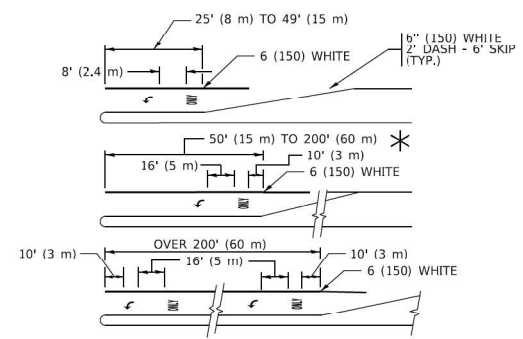
**MEDIANS OVER 4' (1.2 m) WIDE**

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



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

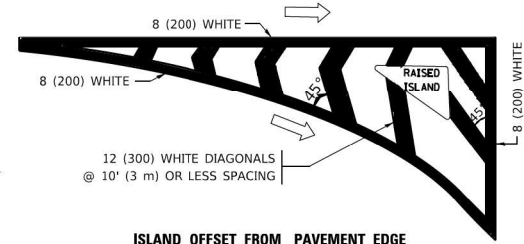
**TYPICAL PAINTED MEDIAN MARKING**



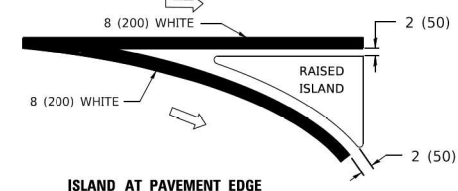
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

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

**TYPICAL TURN LANE MARKING**

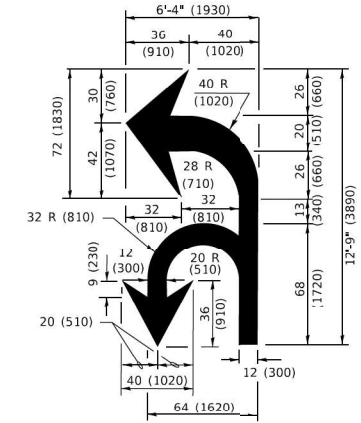


**ISLAND OFFSET FROM PAVEMENT EDGE**

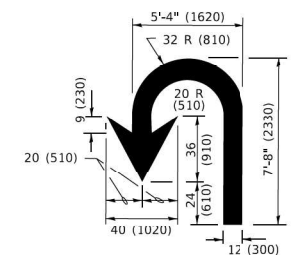


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	7 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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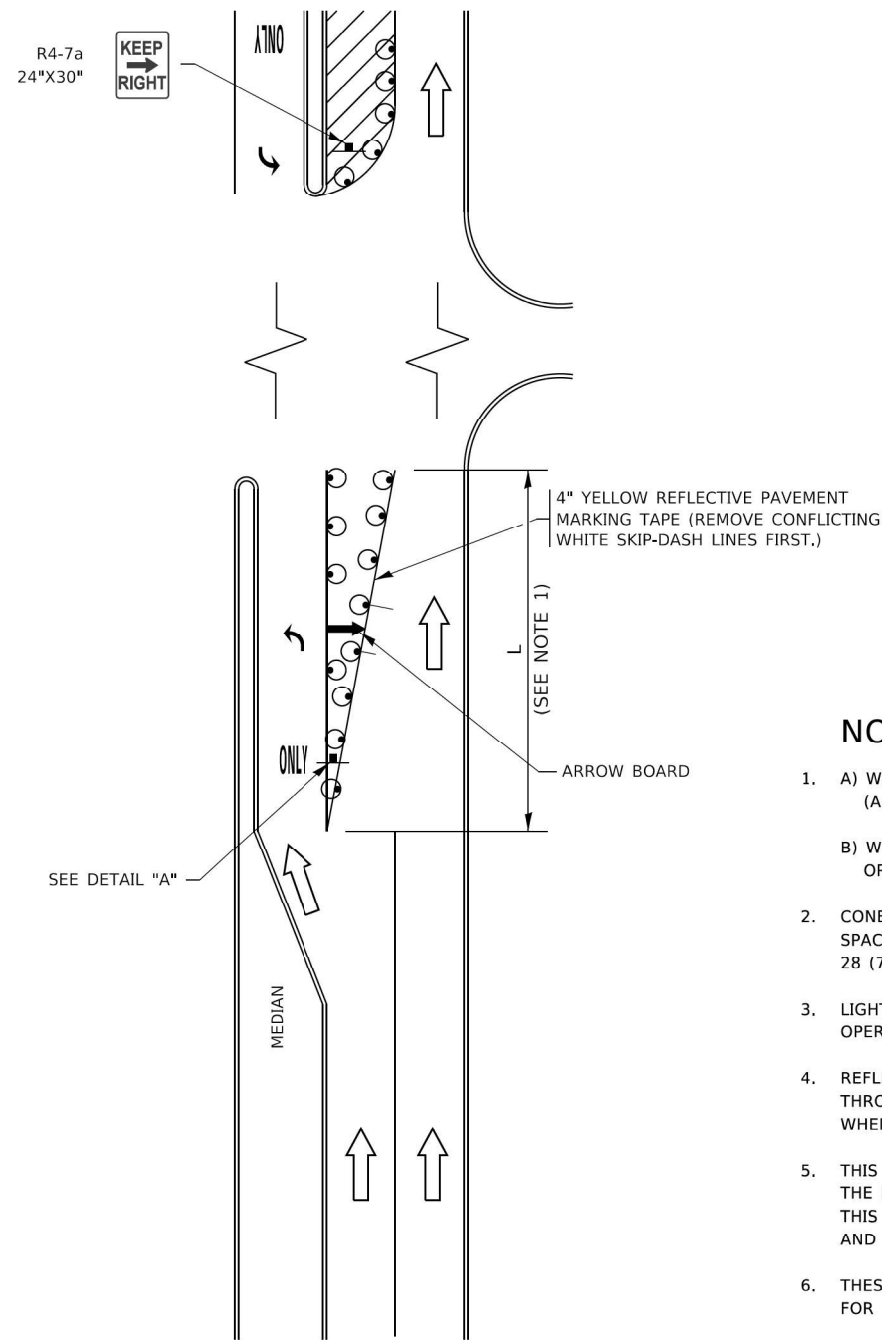
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	- DRAWN	- C. JUCIUS 07-01-13
	- CHECKED	- C. JUCIUS 12-21-15
	- DATE	- C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 2 SHEETS	STA. TO STA.

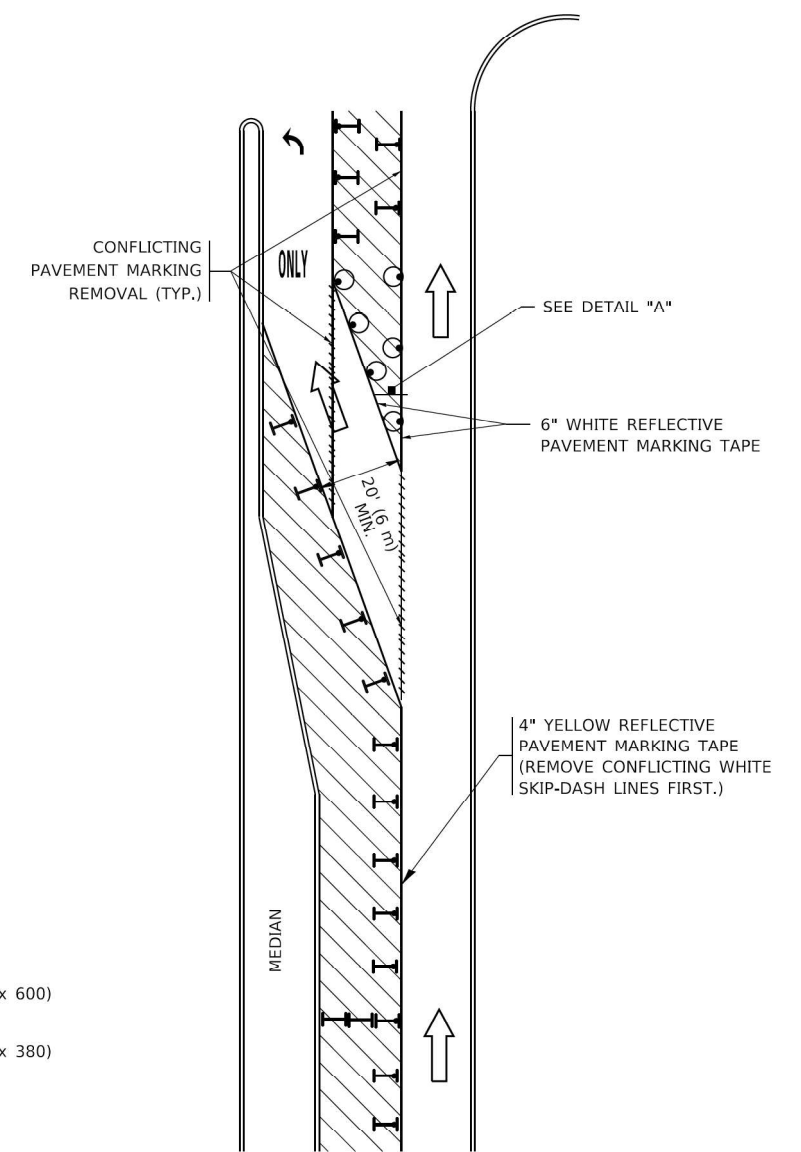
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 B1	COOK	83	79
TC-13		CONTRACT NO. 62R99		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

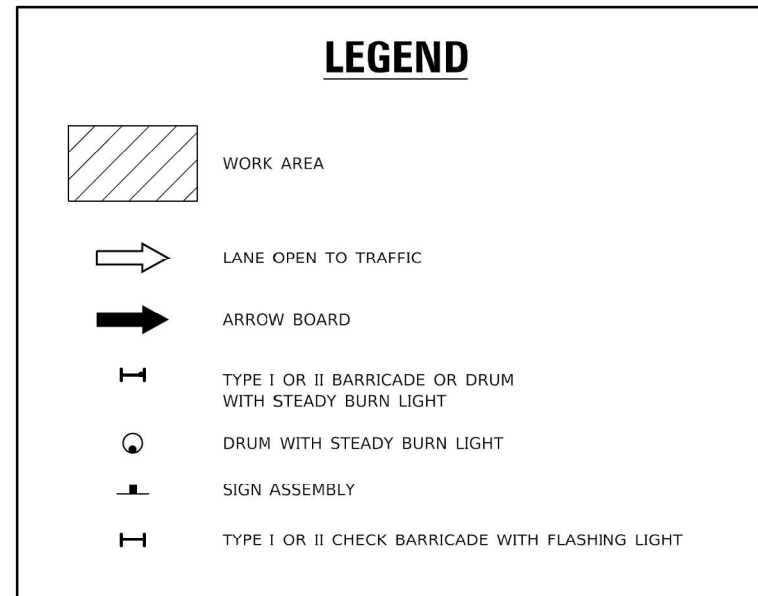


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

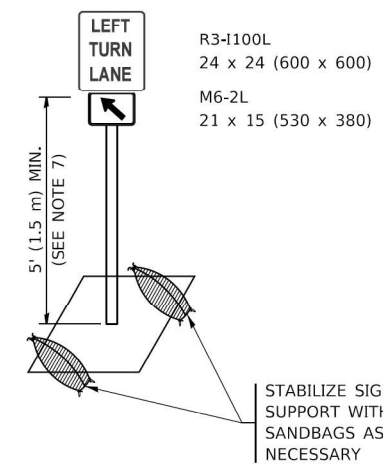


**FIGURE 2**



### NOTES:

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



**DETAIL A**

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

MODEL: Default  
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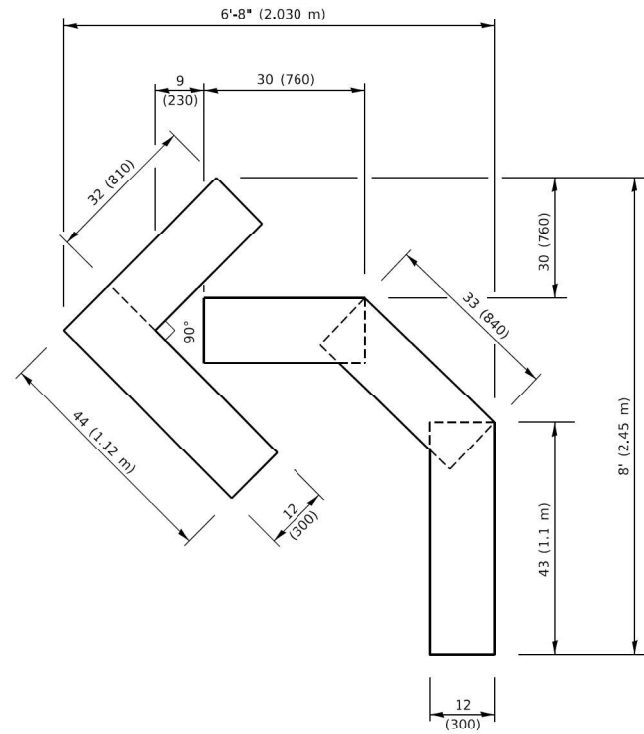
USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

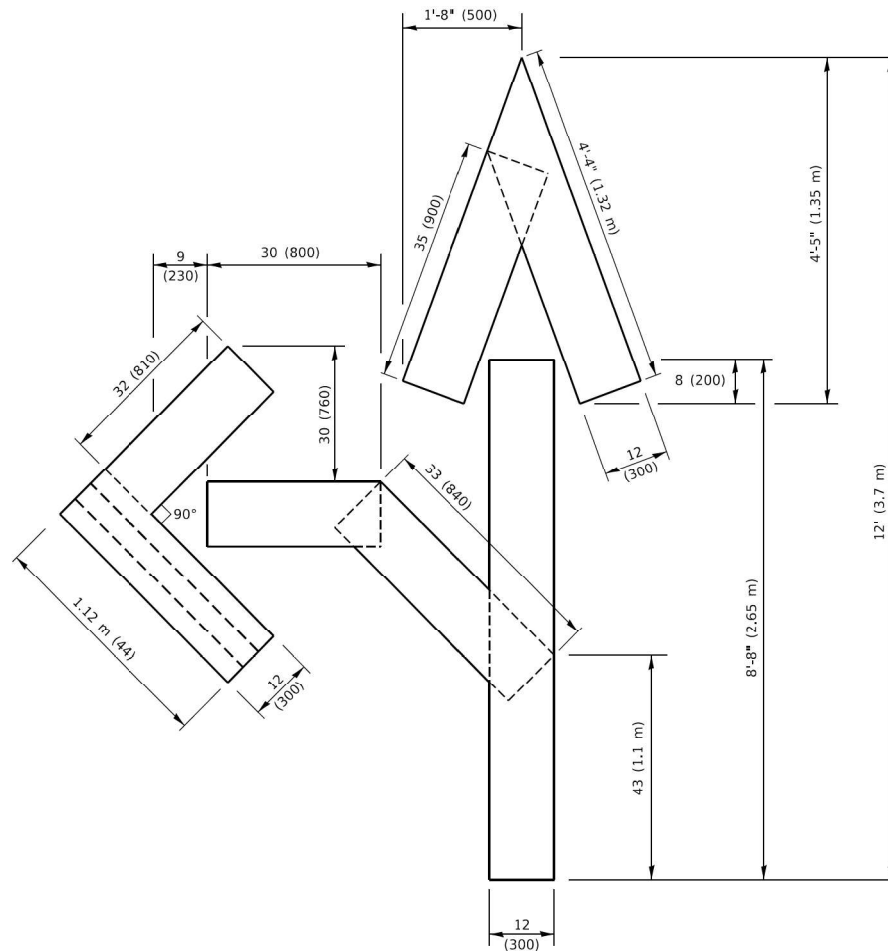
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 B1	COOK	83	80
TC-14		CONTRACT NO. 62R99		
ILLINOIS FED. AID PROJECT				



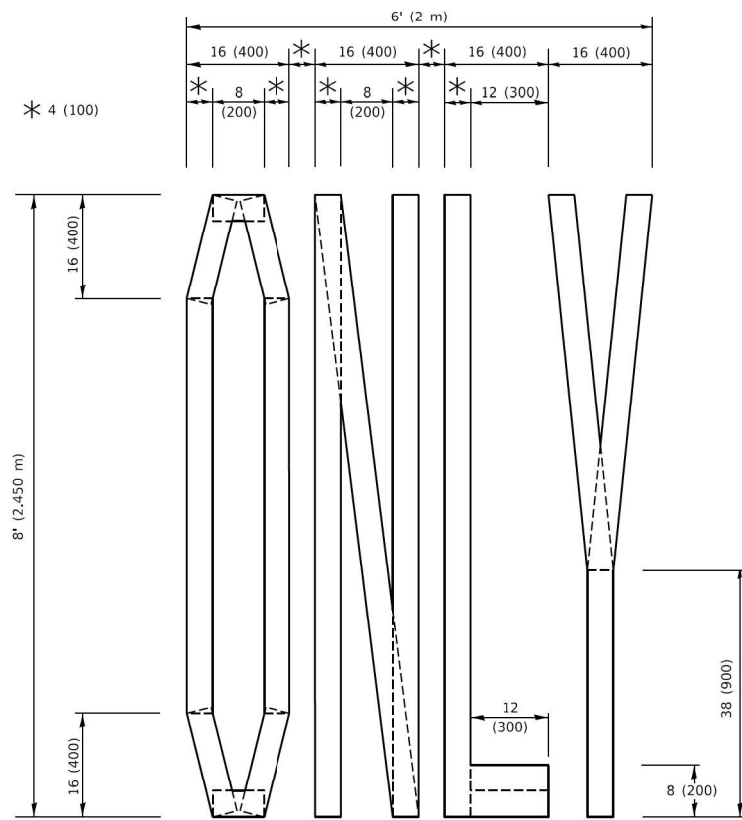
**QUANTITY**

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



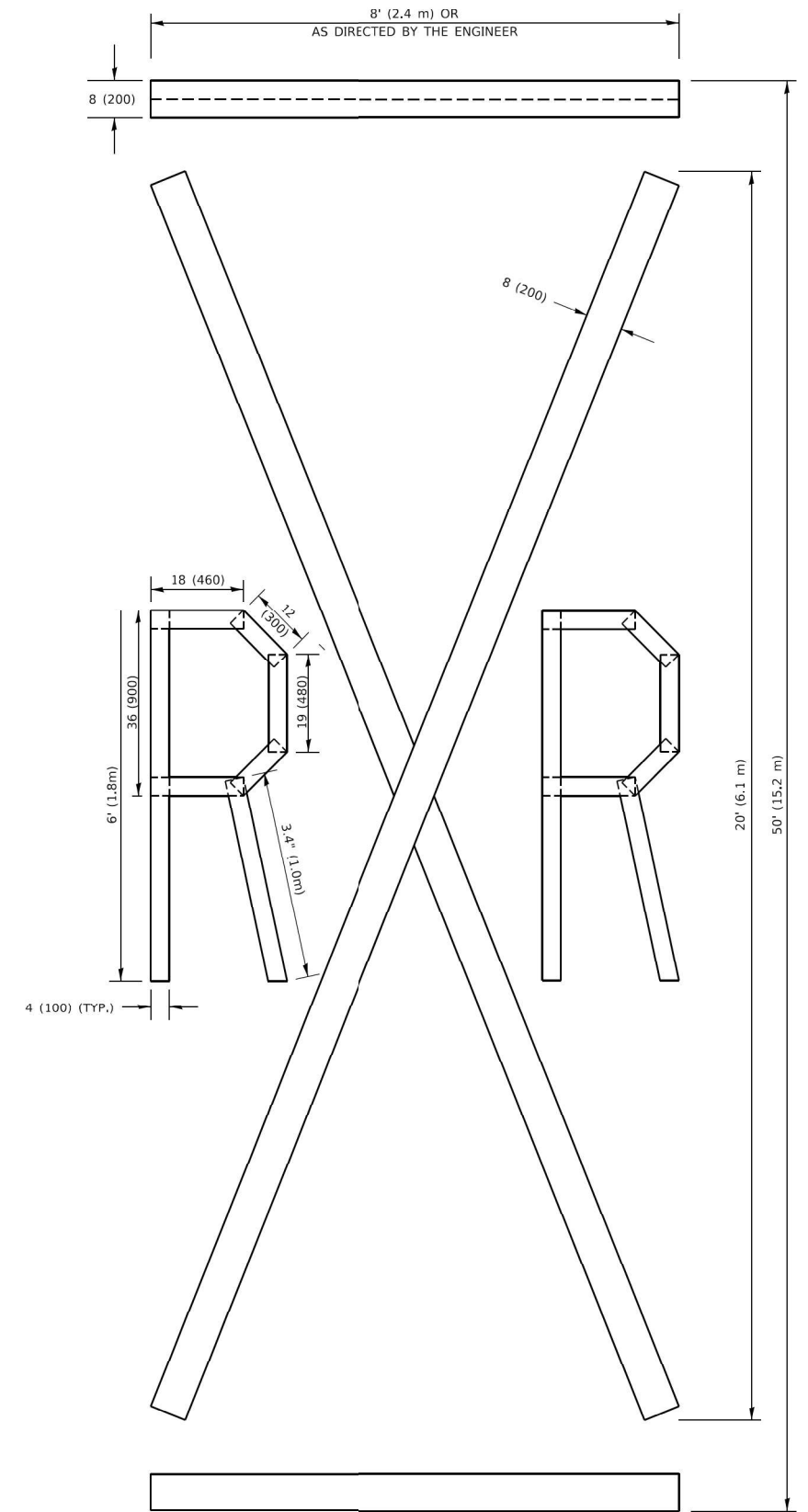
**QUANTITY**

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



**QUANTITY**

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



**QUANTITY**

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

**NOTE:**

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

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

MODEL: Defaulr  
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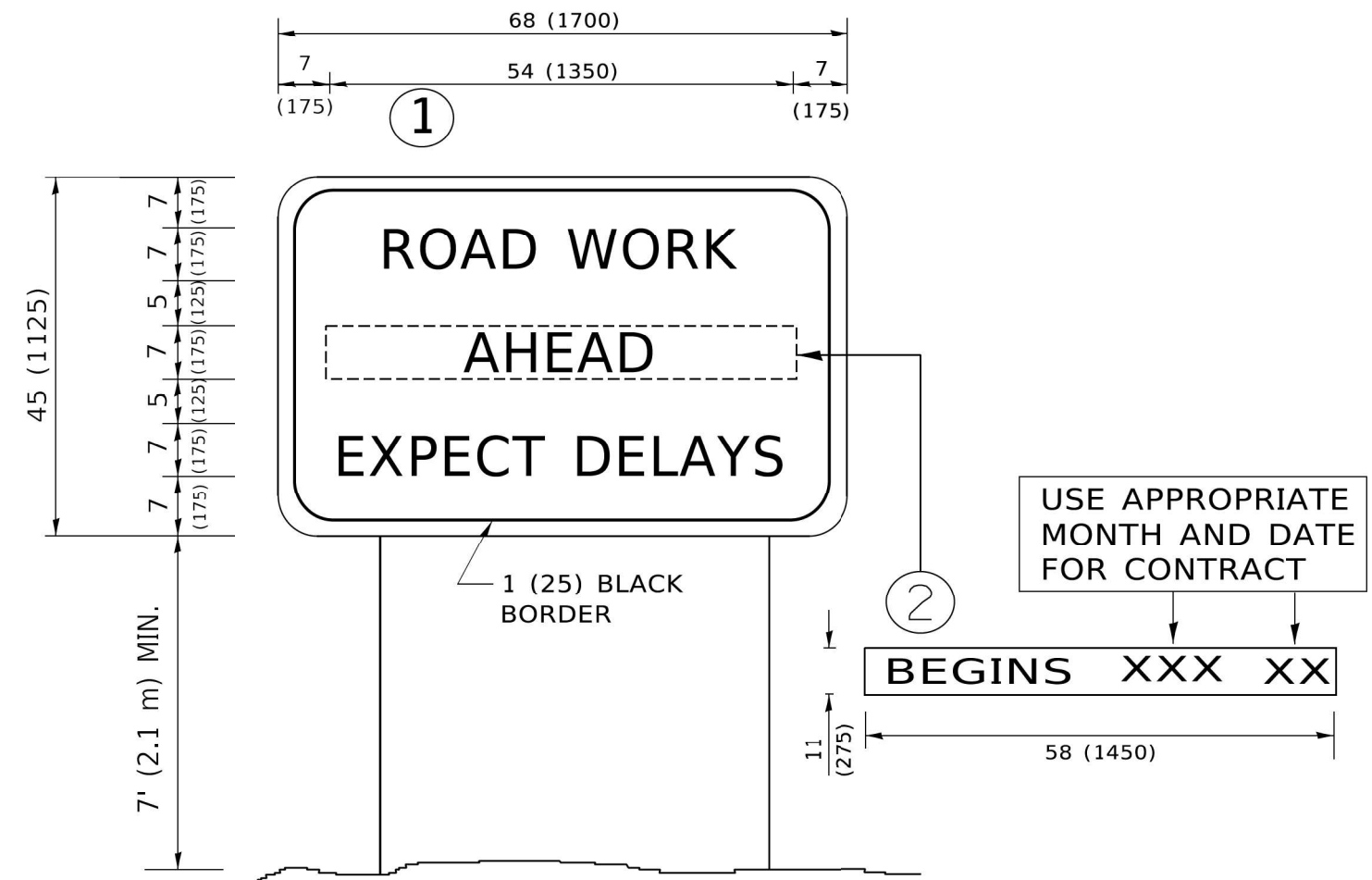
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0068" / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 BJ	COOK	83	81
<b>TC-16</b>		CONTRACT NO. 62R99		
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

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USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

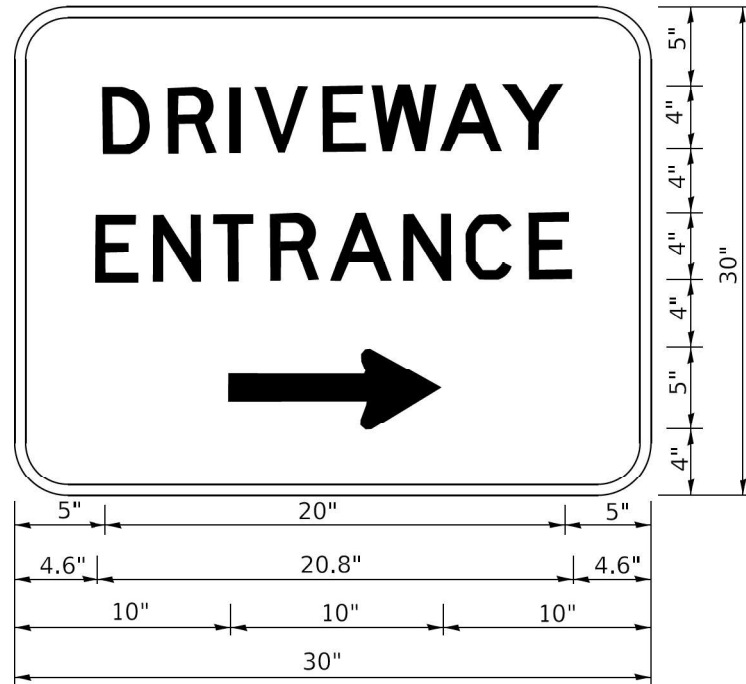
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 B1	COOK	83	82
<b>TC-22</b>			CONTRACT NO. 62R99	
ILLINOIS FED. AID PROJECT				





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

**NOTES:**

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

MOE: Default  
 FILE NAME: p:\p1\planroom\dot.illinois.gov\PIW\DOT\Documents\DOT\_Offices\District\_1\Projects\DH\5427231\CAD\Drawn\CAD\Sheet126.dgn

USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1/4"	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 0311 22 B1	COOK	83	83
<b>TC-26</b>			CONTRACT NO. 62R99	
ILLINOIS FED. AID PROJECT				