

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED
HIGHWAY PLANS
F.A.U. ROUTE 1472 (FOREST AVE)
OVER DES PLAINES RIVER
SECTION 2021-067-BDR&BJR
PROJECT HBFP-13DY(941)
BRIDGE DECK OVERLAY
AND JOINT REPAIR (STRUCTURE NO. 016-0874)
COOK COUNTY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-067-BDR&BJR	COOK	26	1
		ILLINOIS	CONTRACT NO. 62P05	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**IMPROVEMENT IS LOCATED
IN THE VILLAGE OF RIVERSIDE**

TRAFFIC DATA

2018 ADT = 5,400
 POSTED SPEED LIMIT = 25 MPH
 FUNCTIONAL CLASS = MAJOR COLLECTOR



EXPIRES NOV. 30, 2025



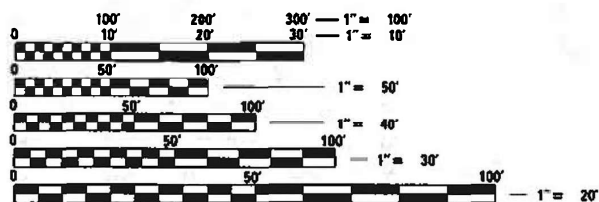
EXPIRES NOV. 30, 2024

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Lukas Janulis
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DATE

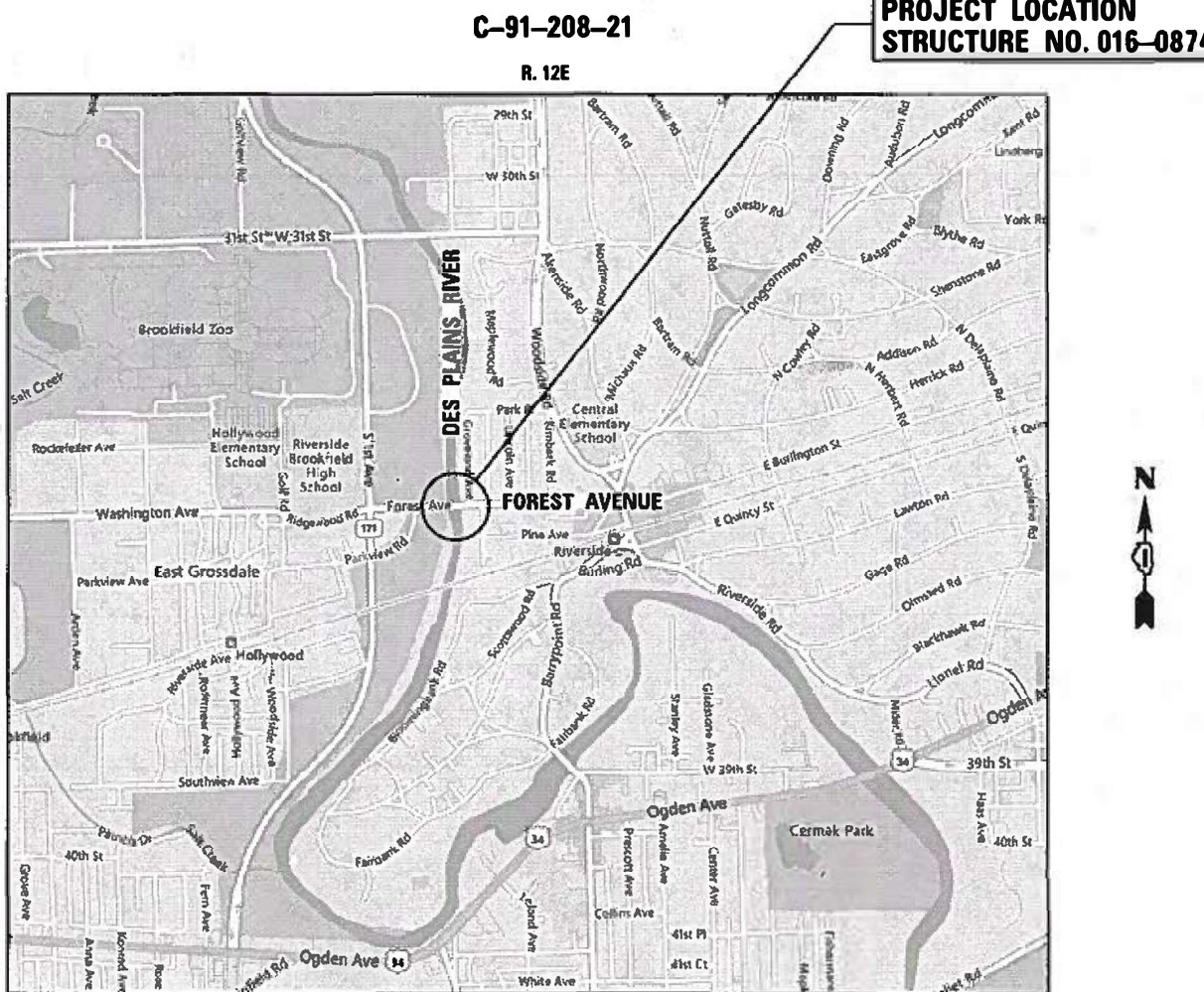


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: PRAVEEN KAINI, P.E. (847-705-4237)
 PROJECT MANAGER: J. ALAIN MIDY, P.E. (847-221-3056)

CONTRACT NO. 62P05



LOCATION MAP

GROSS LENGTH = 308 FT. = 0.06 MILE
 NET LENGTH = 308 FT. = 0.06 MILE



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 29, 2024
[Signature]
 REGIONAL ENGINEER

March 22, 2024 *[Signature]*
 ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 *[Signature]*
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 ALIGNMENT, TIES, AND BENCHMARKS
- 5 REMOVAL PLAN
- 6 ROADWAY PLAN
- 7 PAVEMENT MARKING PLAN
- 8 DETOUR PLAN
- 9-10 MAINTENANCE OF TRAFFIC
- 11 ADA RAMP DETAILS
- 12 GENERAL PLAN AND ELEVATION
- 13 STAGE CONSTRUCTION / TYPICAL SECTIONS
- 14-15 DECK PLAN REPAIRS
- 16 EXPANSION JOINT REPAIR
- 17-18 MODIFIED PREFORMED JOINT STRIP SEAL - SIDEWALK
- 19 BAR SPLICER ASSEMBLY
- 20 SUBSTRUCTURE REPAIRS
- 21 D1 STANDARD DETAIL - BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT DETAIL
- 22 D1 STANDARD DETAIL - BD-32: BUTT JOINT AND HMA TAPER DETAILS
- 23 D1 STANDARD DETAIL - TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- 24 D1 STANDARD DETAIL - TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 25 D1 STANDARD DETAIL - TC-21: DISTRICT ONE DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
- 26 D1 STANDARD DETAIL - TC-22: DISTRICT ONE ARTERIAL ROAD INFORMATION SIGN

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 604021-04 FRAME AND LIDS TYPE 5
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-09 TRAFFIC CONTROL DEVICES

IDOT DISTRICT 1 STANDARD DETAILS

STANDARD NO.	DESCRIPTION
BD - 24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT DETAIL
BD - 32	BUTT JOINT AND HMA TAPER DETAILS
TC - 10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC - 13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC - 21	DISTRICT ONE DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC - 22	DISTRICT ONE ARTERIAL ROAD INFORMATION SIGN

HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
HMA OVERLAY AND BUTT JOINT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% AT 50 GYR.	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA);		

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
- 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N. (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION REQUIRED).
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF RIVERSIDE. THE PLANS DO NOT REPRESENT A COMPLETE DEPICTION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROPOSED WORK. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT INVESTIGATION TO DETERMINE THE OWNERSHIP OF IMPACTED UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS AND MAY BE REQUIRED TO PROVIDE TEMPORARY SUPPORT. ADJUST, RELOCATE OR REMOVE UTILITIES THAT ARE IMPACTED BY THE PROPOSED IMPROVEMENT. THIS SHALL BE INCLUDED IN THE LUMP SIM BID PRICE.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE, BRIDGE SECTION.
- 7. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN PERFORMING DEMOLITION AND REMOVAL AROUND THE EXITING FACILITIES TO REMAIN IN PLACE. IF EXISTING ELEMENTS ARE DAMAGED, THE CONTRACTOR SHALL REPAIR/RESTORE TO MATCH THE EXISTING CONDITIONS OR BETTER.
- 8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, 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.
- 9. ALL DAMAGE TO EXISTING PAVEMENT MARKING OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
- 10. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 12. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 15. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOGS, SHRUBS, BUSHES, SAPLINGS, UNDERBRUSH OR DEBRIS ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS AT LOCATIONS REQUIRING ACCESS TO THE SUBSTRUCTURE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 17. THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.
- 18. TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT MR. FADI SULTAN, AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES			
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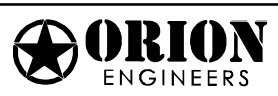
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CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				

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SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED 20% STATE	BRIDGE 0059 URBAN
	20200100	EARTH EXCAVATION	CU YD	3.6	3.6	
	28000400	PRIMETER EROSION BARRIER	FOOT	99	99	
	35101598	AGGREGATE BASE COURSE, TYPE B 3"	SQ YD	21	21	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	231	231	
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	34	34	
	42400800	DETECTABLE WARNINGS	SQ FT	20	20	
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	204	204	
	44000600	SIDEWALK REMOVAL	SQ FT	114	114	
	50102400	CONCRETE REMOVAL	CU YD	3.8	3.8	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	3.6	3.6	
	50300300	PROTECTIVE COAT	SQ YD	740	740	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	850	850	
	50800515	BAR SPLICERS	EACH	8	8	
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	86	86	
	60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3	
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	204	204	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5	5	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	1	1	
	67100100	MOBILIZATION	L SUM	1	1	
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	75	75	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	194	194	
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	583	583	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	16	16	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	130	130	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	47	47	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	43	43	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	10	10	

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED 20% STATE	BRIDGE 0059 URBAN
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	438	438	
*	X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, (SPECIAL)	SQ FT	192	192	
*	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	731	731	
*	X5060700	CLEANING AND PAINTING BEARINGS	EACH	28	28	
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
*	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
*	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	4	4	
*	Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	730	730	
*	Z0010400	CLEANING BRIDGE SEATS	SQ FT	344	344	
*	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	730	730	
*	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	314	314	
*	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	80	80	
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
*	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1	1	
*	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	633	633	
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	44	44	
*	Z0041895	POLYMER CONCRETE	CU FT	3.1	3.1	
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	3	
*	X5030228	CONCRETE SUPERSTRUCTURE, (SPECIAL)	CU YD	1.1	1.1	

* SPECIALTY ITEM

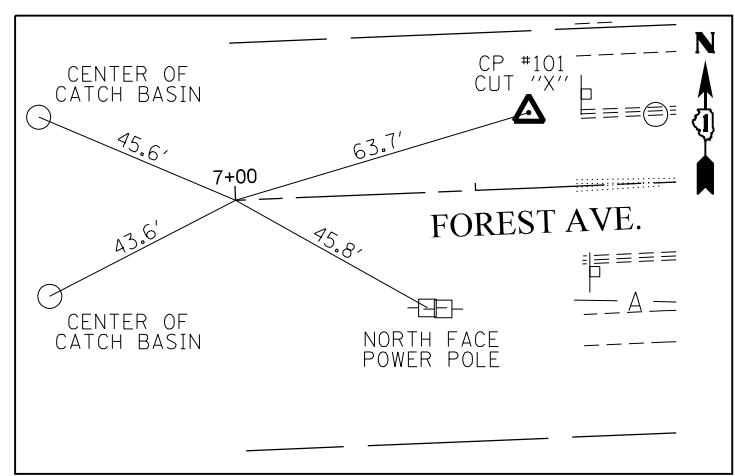
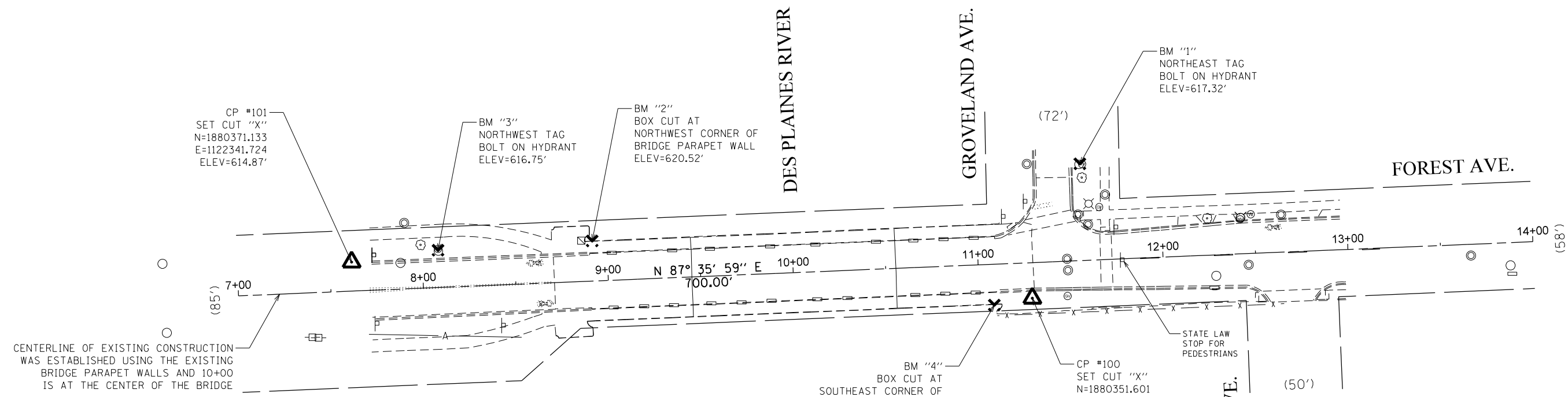
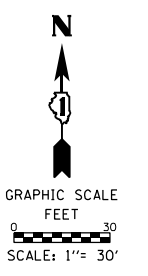


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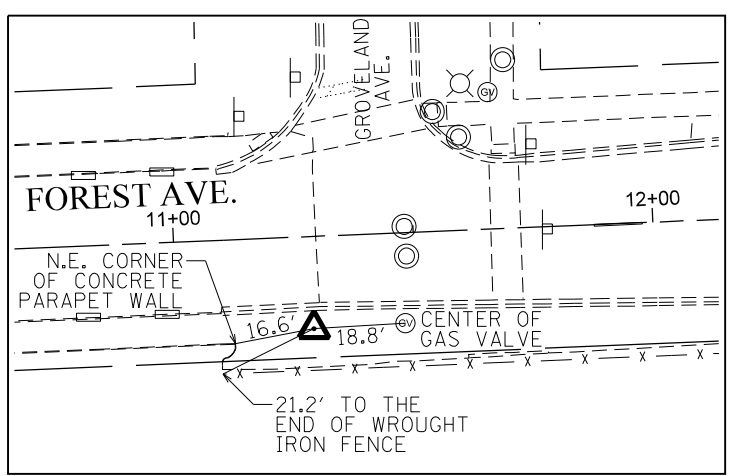
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER			
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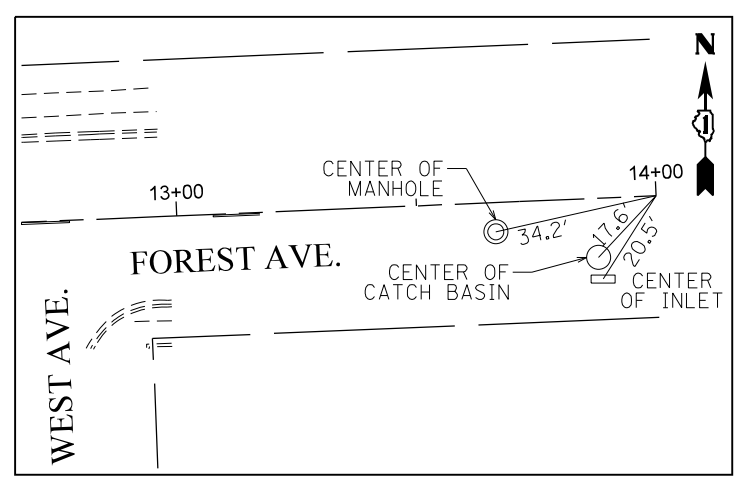
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P05	



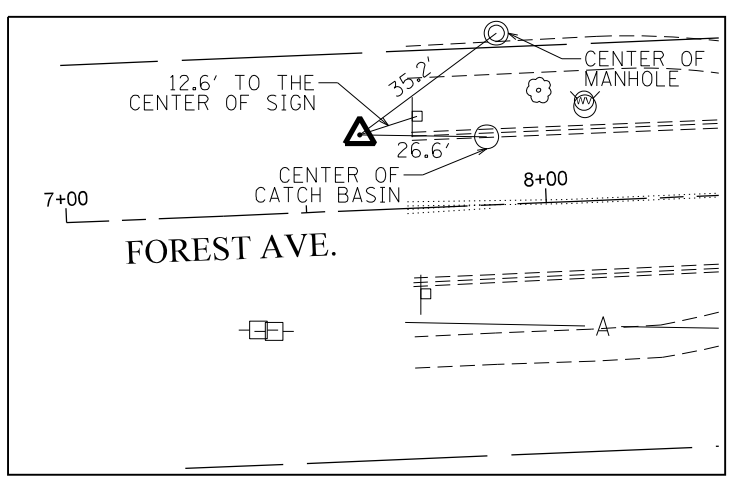
STATION 7+00
SET 5 MAG NAIL CROSS



CONTROL POINT #100
SET CUT "X"



STATION 14+00
SET 5 MAG NAIL CROSS



CONTROL POINT #101
SET CUT "X"

ALIGNMENT STATION TABLE

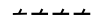


FOREST AVENUE			
STATION	NORTHING	EASTING	DESCRIPTION
7+00	1,880,352.85	1,122,280.65	SET MAG NAIL
8+00	1,880,357.04	1,122,380.56	SET MAG NAIL
9+00	1,880,361.23	1,122,480.47	SET CUT "+"
10+00	1,880,365.41	1,122,580.39	SET CUT "+"
11+00	1,880,369.60	1,122,680.30	SET CUT "+"
12+00	1,880,373.79	1,122,780.21	SET MAG NAIL
13+00	1,880,377.98	1,122,880.12	SET MAG NAIL
14+00	1,880,382.17	1,122,980.04	SET MAG NAIL

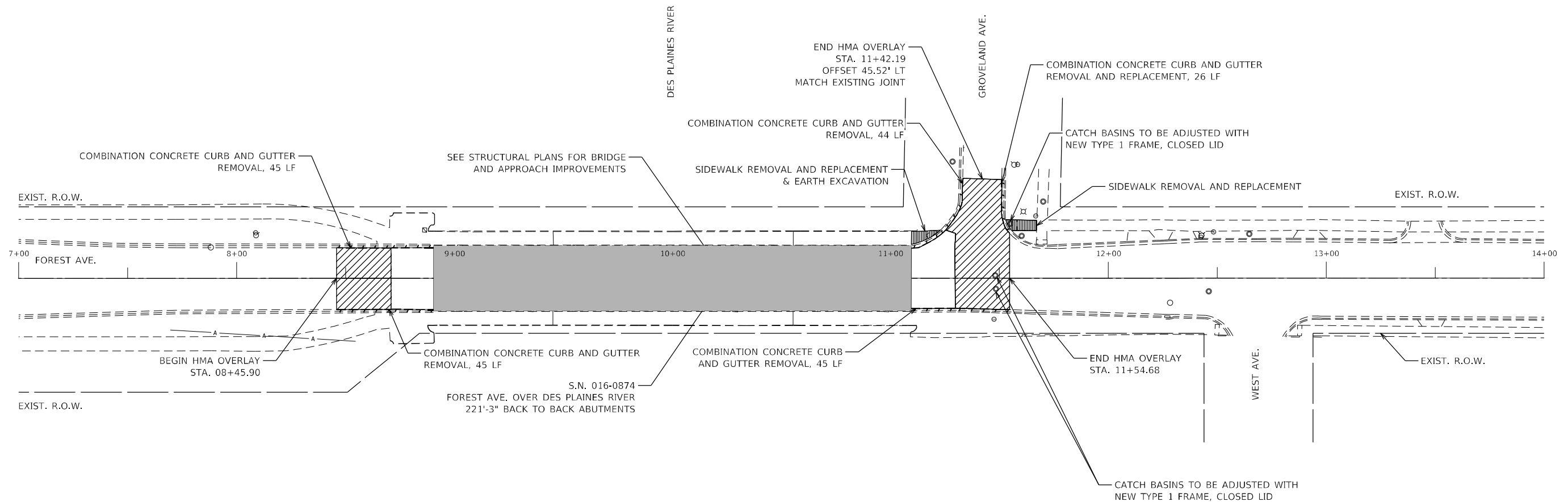
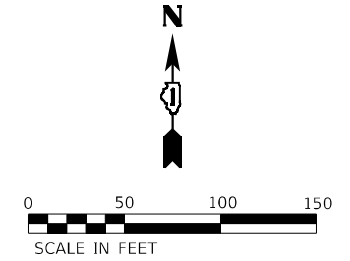
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EDI Environmental Design International Inc.
Civil, Survey, Environmental and Construction Inspection Services
33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603
Ph. (312) 345-1400 Fax (312) 345-0529
www.edesigninc.com MBE/WBE/DBE

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	PLOT DATE = \$DATES	DATE - 08/12/2022	REVISED -		ILLINOIS FED. AID PROJECT								

LEGEND

-  COMBINATION CONCRETE CURB AND GUTTER REMOVAL
-  HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT
-  SIDEWALK REMOVAL



NOTES

1. IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
2. COMBINATION CONCRETE CURB AND GUTTER REMOVAL SHALL BE IN ACCORDANCE WITH THE DISTRICT DETAIL BD-24.

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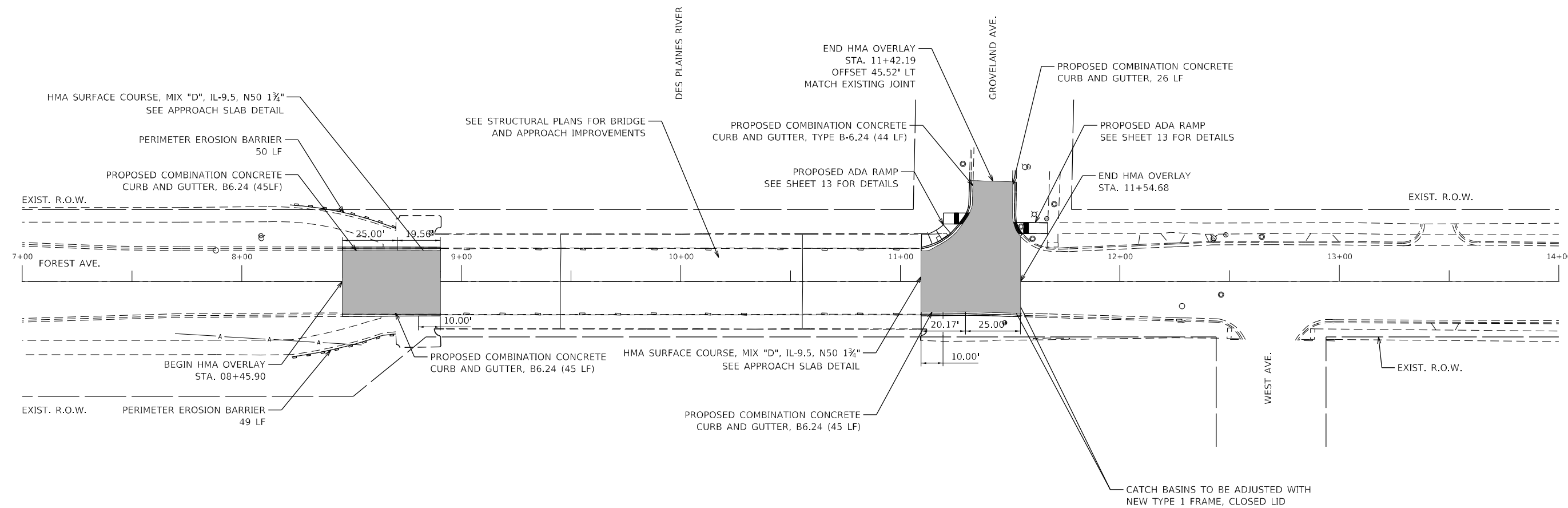
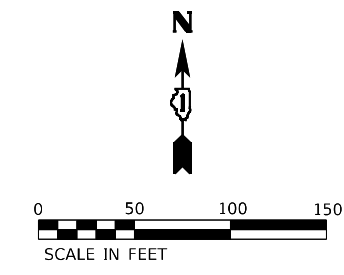
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PLOT DATE = 1/31/2024	DATE - 10/14/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER**

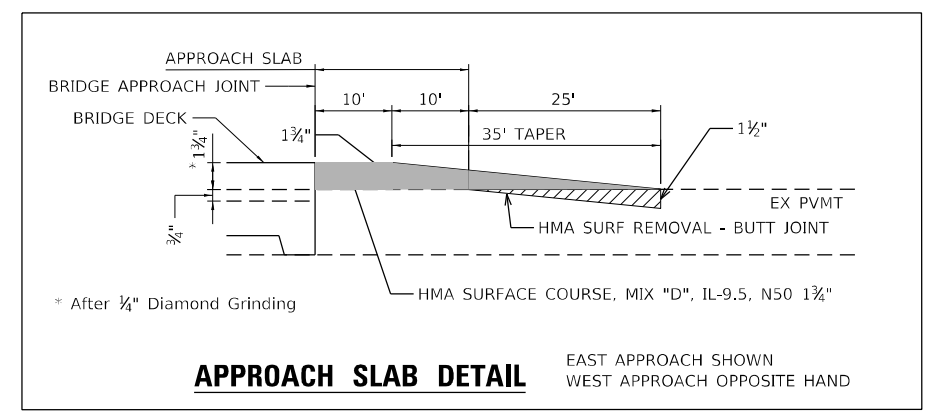
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1472	2021-075-BDR&BJR	COOK	26	5
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ILLINOIS FED. AID PROJECT				



NOTES

1. THE BASE FOR ALL PROPOSED HMA SURFACE COURSE SHALL BE PREPARED, TACKED, AND LEVELED ACCORDING TO ART. 406.05. A NOMINAL QTY OF 3 TONS OF LEVELING BINDER (HAND METHOD), N50 HAS BEEN PROVIDED FOR ALL DEPRESSIONS OF 1 INCH OR MORE IN THE SURFACE OF THE EXISTING PAVEMENT. EXACT LOCATIONS OF DEPRESSIONS SHALL BE DETERMINED BY THE ENGINEER PRIOR TO PLACEMENT OF PROPOSED HMA SURFACE COURSE.



APPROACH SLAB DETAIL EAST APPROACH SHOWN
WEST APPROACH OPPOSITE HAND

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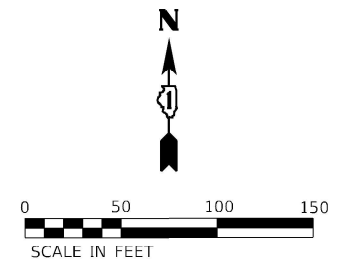
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				

NOTES

THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON ALL HMA SURFACES. MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON ALL CONCRETE SURFACES.



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW @ 11" C-C - MEDIAN PAVEMENT MARKING
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" DOUBLE YELLOW @ 11" C-C - BRIDGE DECK LANE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE SOLID - STOP BAR
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE SOLID LINE - @ 3' CTS CROSSWALK MARKING
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE SOLID LINE - CROSSWALK MARKING
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS - SHARED LANE SYMBOL

LOCATION	STATION	STATION	78000100	78000200	78000400	78000600	78000650	78009004	TYPE
			SYMBOL	LINE 4"	LINE 6"	LINE 12"	LINE 24"	LINE 4"	
FOREST AVE.	08+45.90	08+90.46		90					DOUBLE SOLID YELLOW
FOREST AVE.	08+90.46	11+09.50						438	DOUBLE SOLID YELLOW
FOREST AVE.	11+09.50	11+29.67		40					DOUBLE SOLID YELLOW
FOREST AVE.	11+15.16	11+53.59			47	43			SOLID WHITE
FOREST AVE.	11+26.78	11+50.93					10		SOLID WHITE
FOREST AVE.	08+56.18	08+69.52	16						SYMBOL
		TOTAL	16	130	47	43	10	438	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

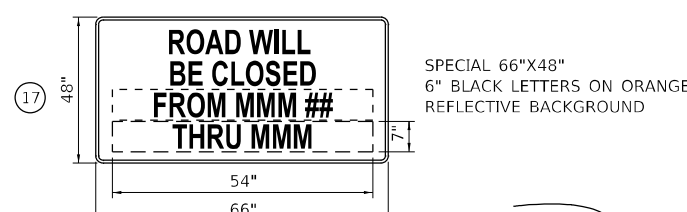
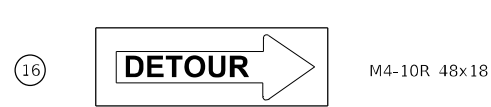
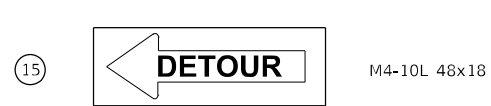
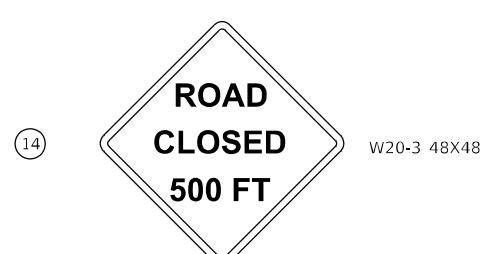
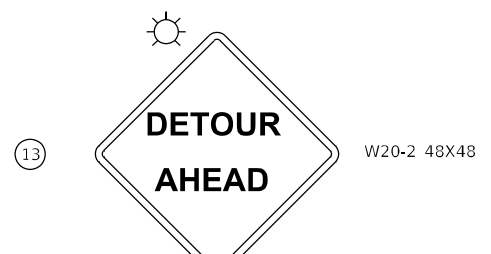
**PAVEMENT MARKING PLAN
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER**

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

F.A.U. RTE. 1472	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 7
CONTRACT NO. 62P05			ILLINOIS FED. AID PROJECT	

SIGN LEGEND

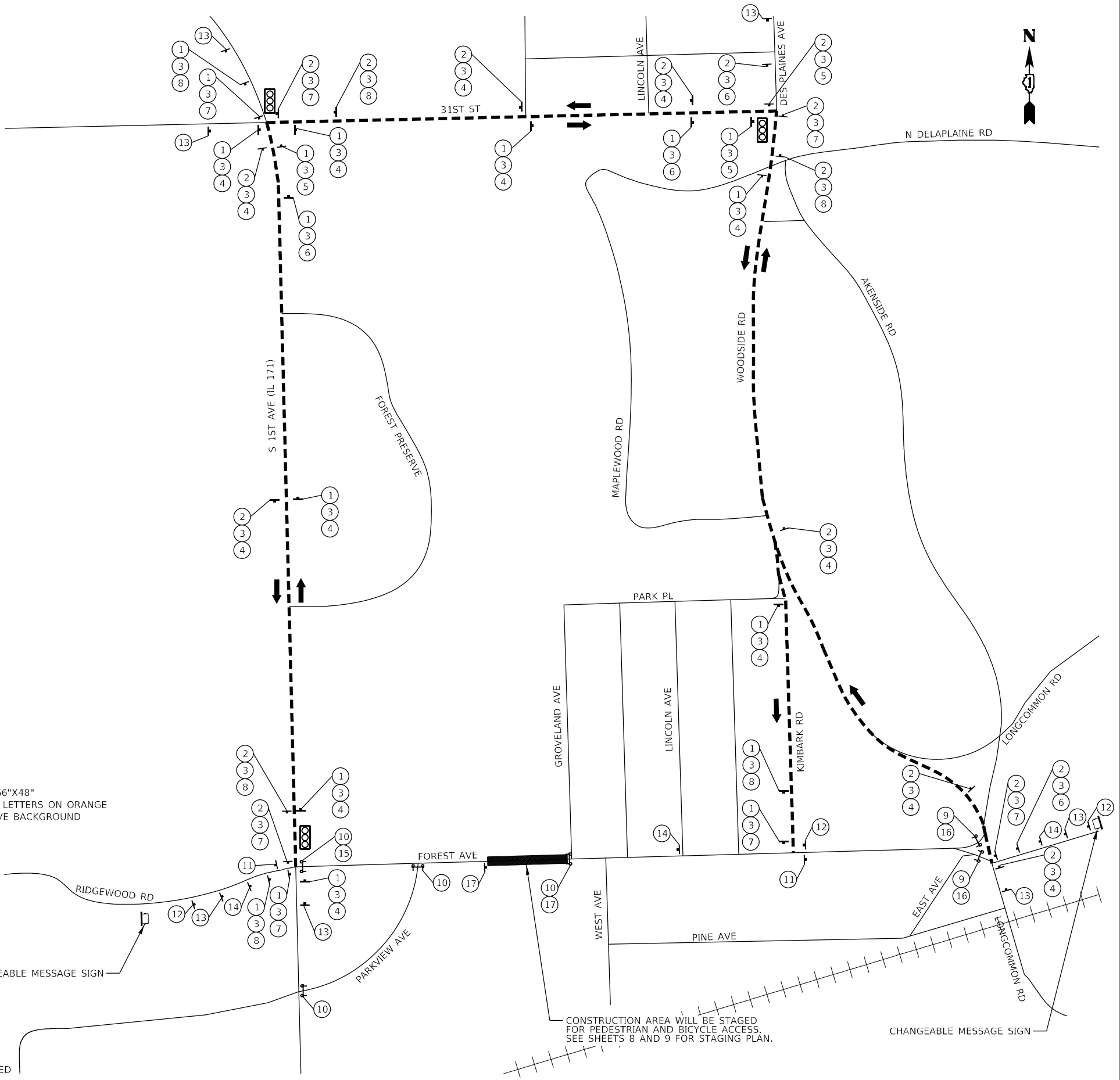
- ① EAST M3-2 24X12
- ② WEST M3-4 24X12
- ③ FOREST AVE SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND
- ④ DETOUR ↑ M4-9 30X24
- ⑤ DETOUR → M4-9R 30X24
- ⑥ DETOUR ↗ M4-9R 30X24
- ⑦ DETOUR ← M4-9L 30X24
- ⑧ DETOUR ↙ M4-9L 30X24
- ⑨ ROAD CLOSED TO THRU TRAFFIC R11-4-60X30
- ⑩ ROAD CLOSED R11-2-48X30
- ⑪ END DETOUR M4-8A-30X24



NOTES

- FOLLOW DISTRICT ONE DETAIL TC-21 FOR ADDITIONAL INFORMATION.
- INSTALLATION OF ALL CHANGEABLE MESSAGE SIGNS, INFORMING THE PUBLIC OF THE DETOUR, SHALL BE DONE AT LEAST ONE WEEK PRIOR TO THE ROADWAY CLOSURE.

- FOREST AVE DETOUR
- ⊥ TYPE III BARRICADE W/ TYPE A FLASHERS
- ⊥ SIGN POST
- ▨ CONSTRUCTION ZONE
- TRAFFIC FLOW
- CHANGEABLE MESSAGE SIGN
- ⊞ TEMPORARY TRAFFIC SIGNAL TIMING REQUIRED



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DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&B/R	COOK	26	8
CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				

NOTES

PRE-STAGE:

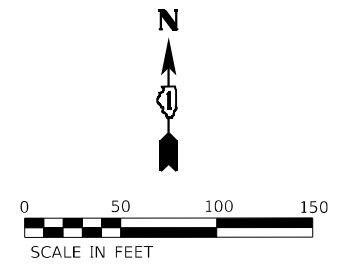
1. INSTALL TRAFFIC CONTROL SIGNAGE AS SHOWN IN THE DETOUR PLAN.

STAGE 1:

1. CLOSE EASTBOUND LANE OF FOREST AVE AS SHOWN ON THE STAGE 1 PLANS.
2. CONVERT THE WESTBOUND LANE TO A SHARED USE LANE FOR PEDESTRIANS AND BYCICLES WITH THE WIDTH SPECIFIED IN THE TYPICAL SECTION SHOWN ON THE STAGE 1 PLANS.
3. PERFORM SOUTH HALF STRUCTURAL AND APPROACH ROADWAY REPAIRS AS SHOWN IN THE PLANS.

NOTES:

1. GROVELAND AVE SHALL REMAIN OPEN TO TRAFFIC THROUGHOUT CONSTRUCTION. CONTRACTOR TO STRATEGICALLY PLACE DRUMS TO KEEP ACCESS TO SAHRED USE PATH AND NORTH SIDEWALK.
2. CONTRACTOR TO STRATEGICALLY PLACE BARRICADES AT WESTERN PROJECT LIMITS TO KEEP ACCESS TO BIKE LANE AND NORTH SIDEWALK.
3. ALL SIDEWALK CLOSURE SIGNS SHALL HAVE DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES INSTALLED BEHIND THE SIGN AS SHOWN IN STANDARDS 701801 AND 701901.



R11-1102-2430

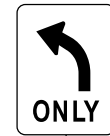


CLOSE EXCLUSIVE LEFT TURN LANE PER STANDARD 701701

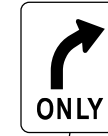


R3-2-4848

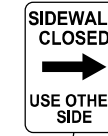
R3-5-2430



R3-5-2430



R11-1102-2430



R3-1-4848



R11-2-4830



R3-2-4848



R3-1-4848

LEGEND

- TRAFFIC SIGN
- WORK AREA
- HMA WORK AREA
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE PER STADARDS 701801 AND 701901
- BARRICADE OR DRUM



W6-3(0)-24

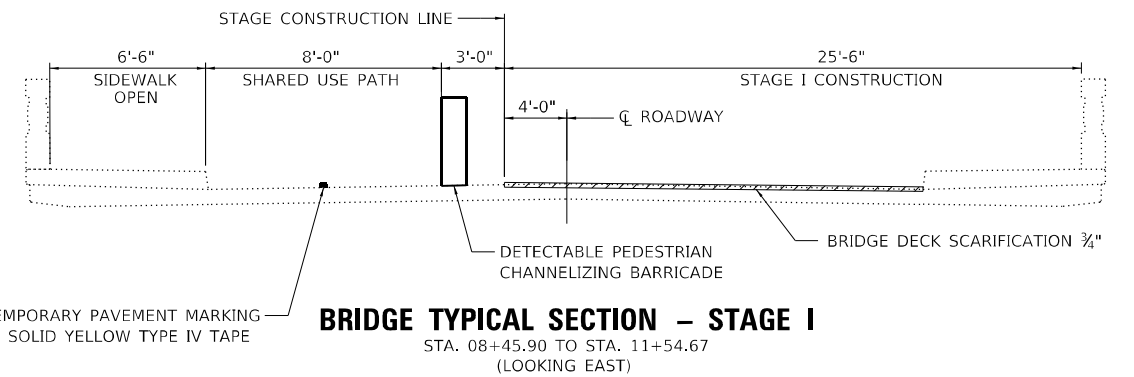


R3-17-1812



PEDESTRIAN AND BICYCLE TRAFFIC ONLY NO MOTORIZED VEHICLES

SPECIAL 72"X60" VARIABLE 6" BLACK LETTERS ON WHITE BACKGROUND



BRIDGE TYPICAL SECTION - STAGE I

STA. 08+45.90 TO STA. 11+54.67 (LOOKING EAST)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE I
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&BJR	COOK	26	9
CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				

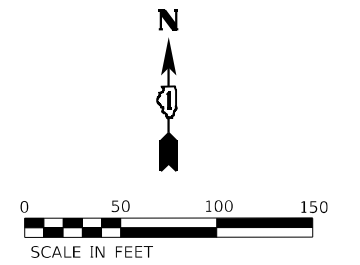
NOTES

STAGE 2:

1. CLOSE WESTBOUND LANE OF FOREST AVE AS SHOWN ON THE STAGE 2 PLANS.
2. CONVERT THE EASTBOUND LANE TO A SHARED USE LANE FOR PEDESTRIANS AND BYCICLES WITH THE WIDTH SPECIFIED IN THE TYPICAL SECTION SHOWN ON THE STAGE 2 PLANS.
3. PERFORM NORTH HALF STRUCTURAL AND APPROACH ROADWAY REPAIRS AS SHOWN IN THE PLANS.

NOTES:

1. GROVELAND AVE SHALL REMAIN OPEN TO TRAFFIC THROUGHOUT CONSTRUCTION, AND EXISTING HMA SURFACE REMOVAL AND PLACEMENT OF PROPOSED HMA MIXTURE AT THE EASTERN PROJECT LIMITS SHALL BE COMPLETED UTILIZING HIGHWAY STANDARDS FOR TEMPORARY LANE CLOSURES.
2. CONTRACTOR TO STRATEGICALLY PLACE DRUMS TO KEEP ACCESS TO SHARED USE PATH AND SOUTH SIDEWALK.
3. CONTRACTOR TO STRATEGICALLY PLACE BARRICADES AT WESTERN PROJECT LIMITS TO KEEP ACCESS TO BIKE LANE AND NORTH SIDEWALK.
4. ALL SIDEWALK CLOSURE SIGNS SHALL HAVE DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES INSTALLED BEHIND THE SIGN AS SHOWN IN STANDARDS 701801 AND 701901.



R11-1102-2430



CLOSE EXCLUSIVE LEFT TURN LANE PER STANDARD 701701

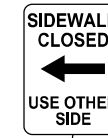


R3-2-4848

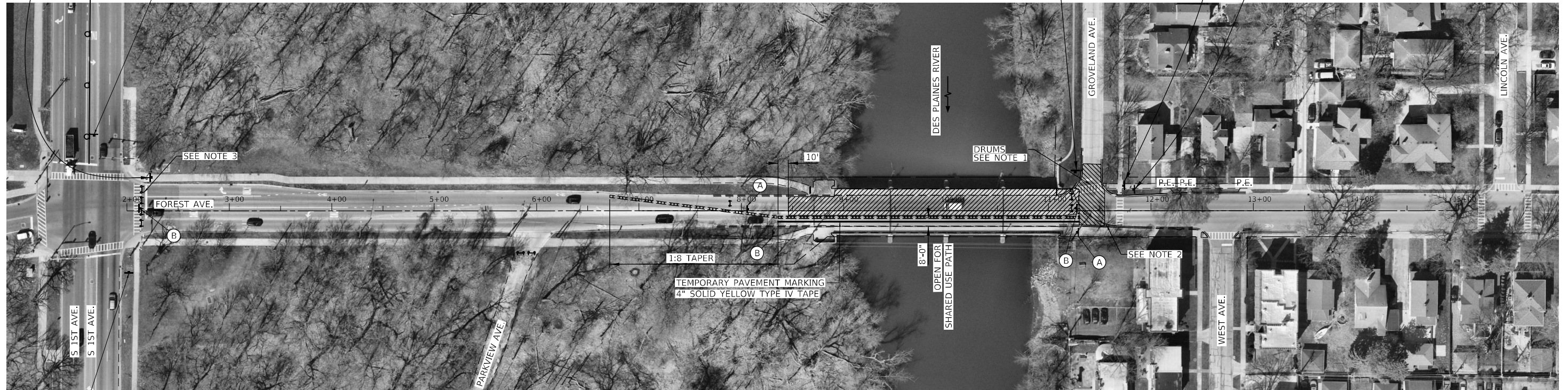
R3-5-2430



R11-1102-2430

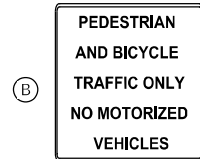
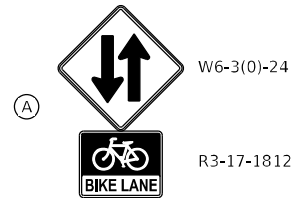


R3-5-2430

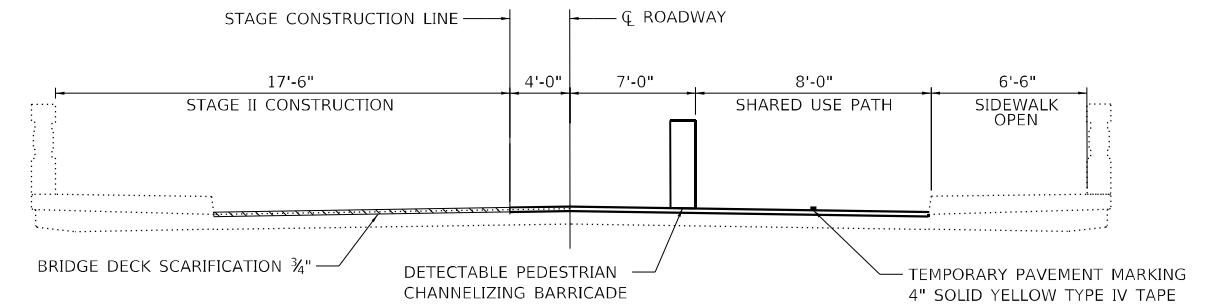


LEGEND

- TRAFFIC SIGN
- WORK AREA
- HMA WORK AREA
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE PER STADARDS 701801 AND 701901
- BARRICADE OR DRUM



SPECIAL 72"X60" VARIABLE 6" BLACK LETTERS ON WHITE BACKGROUND



BRIDGE TYPICAL SECTION - STAGE II

STA. 08+45.90 TO STA. 11+54.67 (LOOKING EAST)

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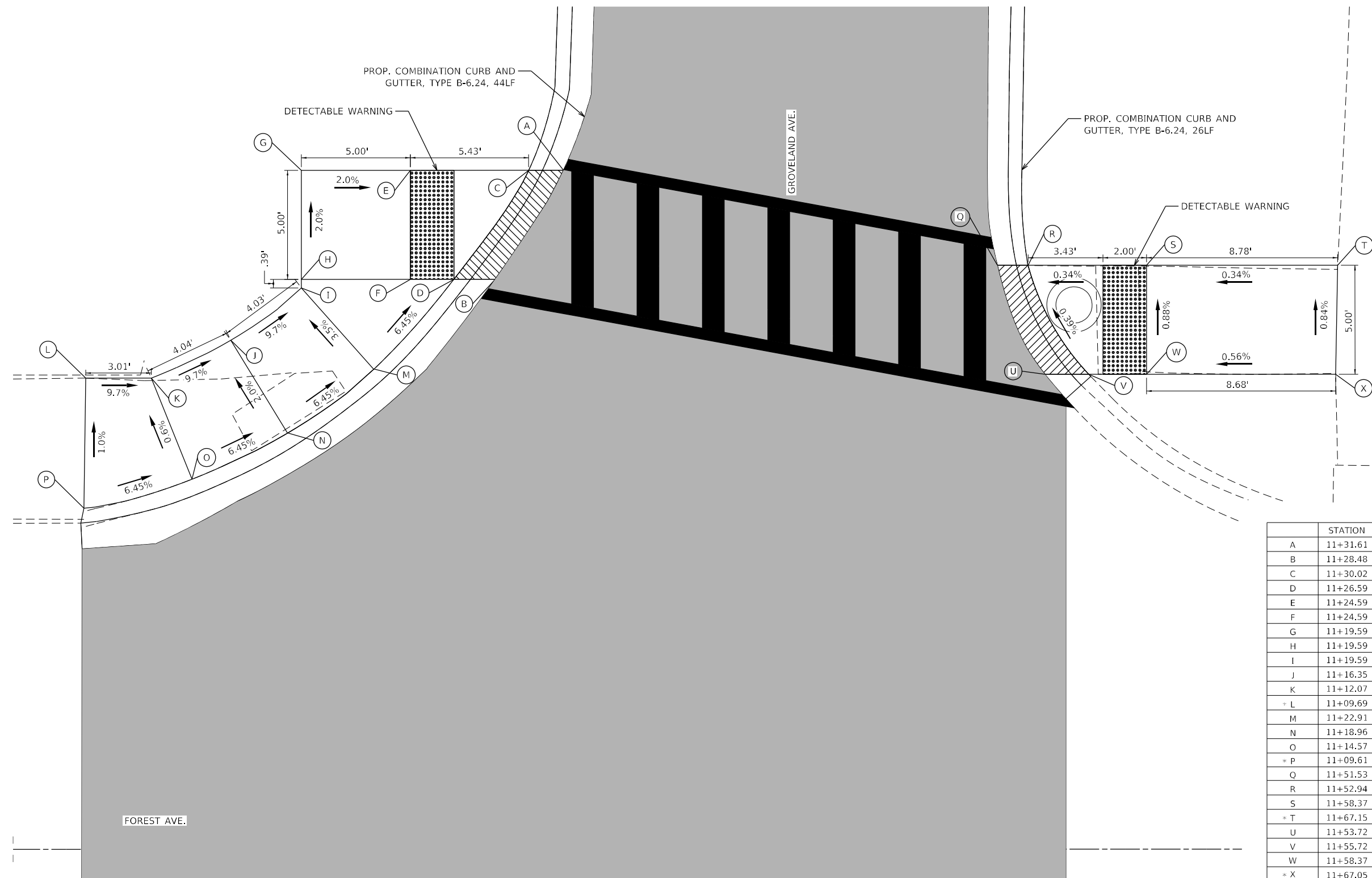
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE II
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&BJR	COOK	26	10
CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				



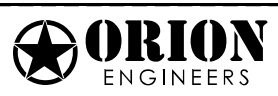
	STATION	OFFSET	ELEVATION
A	11+31.61	31.14' LT	615.11
B	11+28.48	26.14' LT	615.27
C	11+30.02	31.14' LT	615.11
D	11+26.59	26.14' LT	615.27
E	11+24.59	31.14' LT	615.21
F	11+24.59	26.14' LT	615.31
G	11+19.59	31.14' LT	615.31
H	11+19.59	26.14' LT	615.40
I	11+19.59	25.75' LT	615.44
J	11+16.35	23.35' LT	615.83
K	11+12.07	21.61' LT	616.22
* L	11+09.69	21.61' LT	616.52
M	11+22.91	22.02' LT	615.63
N	11+18.96	19.09' LT	615.95
O	11+14.57	16.97' LT	616.26
* P	11+09.61	15.64' LT	616.60
Q	11+51.53	26.77' LT	614.93
R	11+52.94	26.77' LT	614.93
S	11+58.37	26.77' LT	614.94
* T	11+67.15	26.77' LT	614.97
U	11+53.72	21.77' LT	614.96
V	11+55.72	21.77' LT	614.96
W	11+58.37	21.77' LT	614.99
* X	11+67.05	21.77' LT	615.02

* MATCH EXISTING SIDEWALK ELEVATION

NOTES

ADA RAMPS PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH (SPECIAL). SEE SPECIAL PROVISIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
F.A.U. ROUTE 1472 (FOREST AVE) OVER DES PLAINES RIVER

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&BIR	COOK	26	11
CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				

Existing Structure No. 016-0874 was built in 1938 as Section 161-0505 1-5D. In 1984, under FAU 1472 Section (0505RS & 0505-1BR)81, the superstructure was replaced and the substructure was reconstructed.

Existing Structure is a four span reinforced concrete slab on PPC concrete beams, 221'-3" bk. to bk. abutments, 45'-0" out to out deck.

Traffic to be rerouted during construction utilizing a detour.

Salvage: None

INDEX OF SHEETS

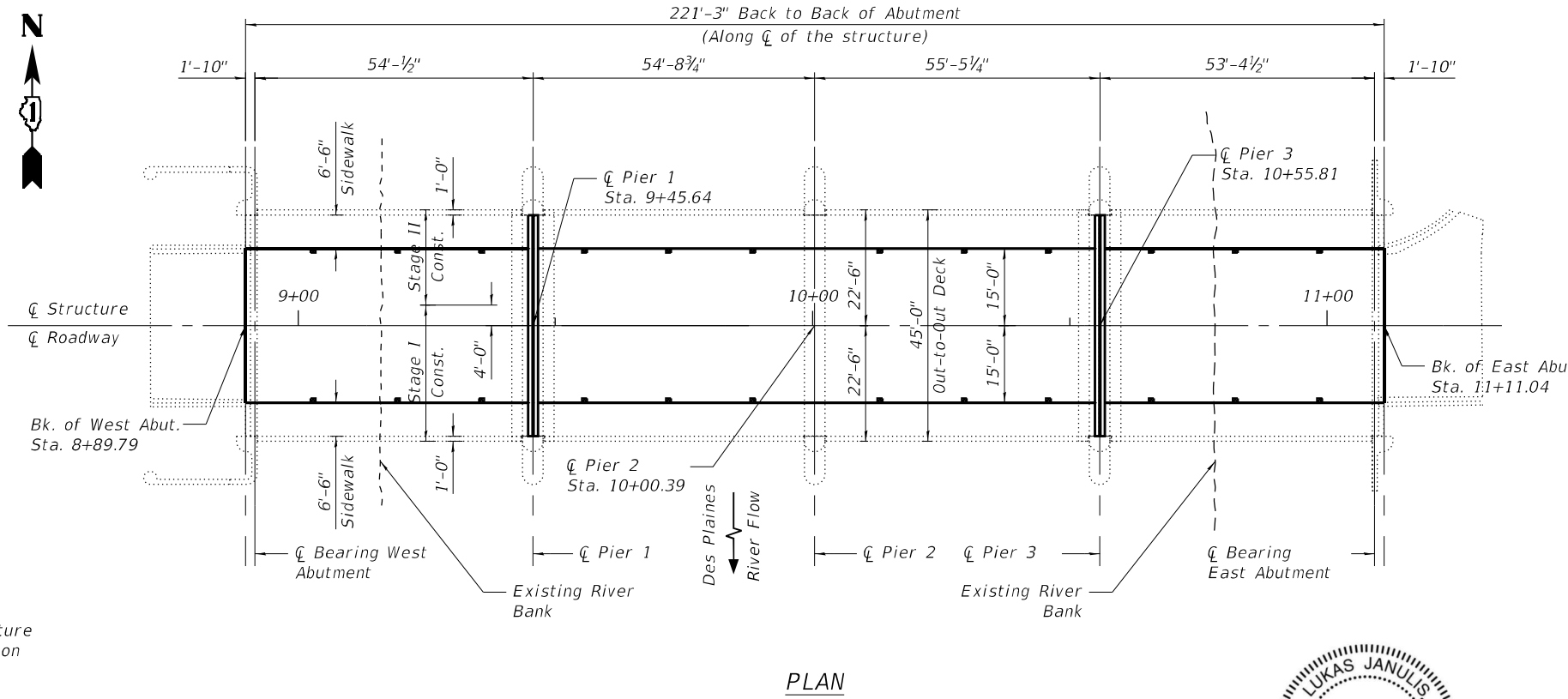
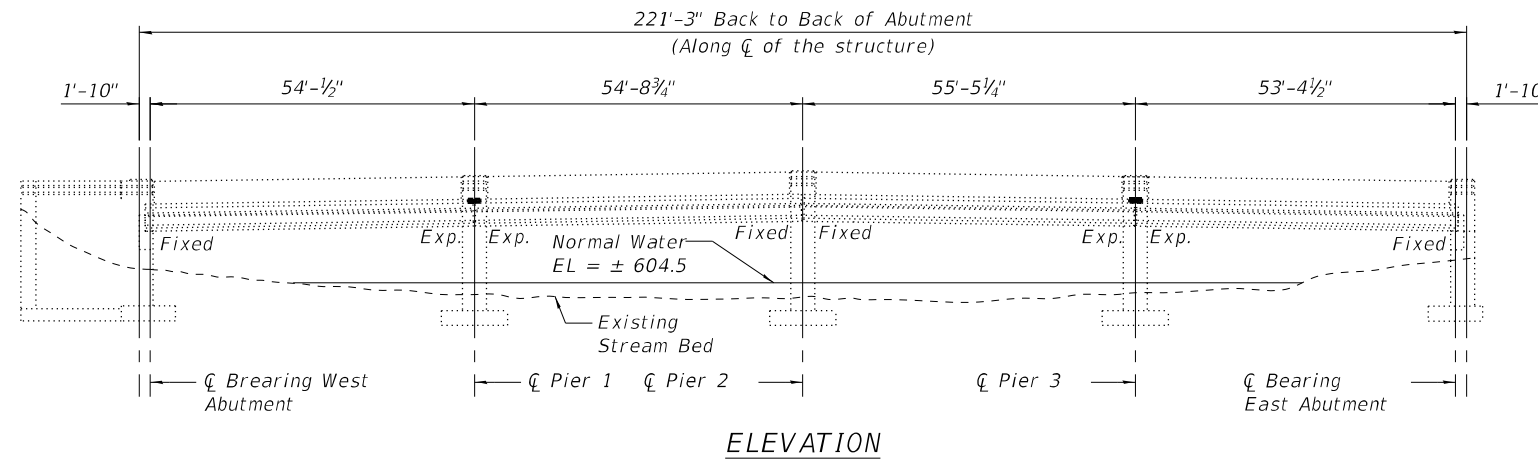
- S1 General Plan and Elevation
- S2 Stage Construction/Typical Sections
- S3 Deck Plan Repairs (1 of 2)
- S4 Deck Plan Repairs (2 of 2)
- S5 Expansion Joint Repairs - Piers 1 & 3
- S6 Preformed Joint Strip Seal (1 of 2)
- S7 Preformed Joint Strip Seal (2 of 2)
- S8 Bar Splicer Assembly
- S9 Substructure Repairs

SCOPE OF WORK

1. Remove and replace expansion joints.
2. Scarify and repair deck.
3. Place concrete overlay on deck.
4. Diamond grind the bridge deck.
5. Clean and seal bridge seats.
6. Clean and Paint Expansion Bearings
7. Substructure repairs.
8. Apply protective coat.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	3.8
Concrete Superstructure	Cu. Yd.	3.6
Concrete Superstructure (Special)	Cu. Yd.	1.1
Protective Coat	Sq. Yd.	740
Reinforcement Bars, Epoxy Coated	Pound	850
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	86
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	731
Approach Slab Repair (Partial Depth)	Sq. Yd.	4
Bridge Deck Latex Concrete Overlay 2 3/4"	Sq. Yd.	730
Cleaning Bridge Seats	Sq. Ft.	344
Bridge Deck Scarification 3/4"	Sq. Yd.	730
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	314
Structural Repair of Concrete (Depth Greater than 5 inches)	Sq. Ft.	80
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Diamond Grinding (Bridge Section)	Sq. Yd.	633
Polymer Concrete	Cu. Ft.	3.1
Cleaning and Painting Bearings	Each	28



GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall 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.

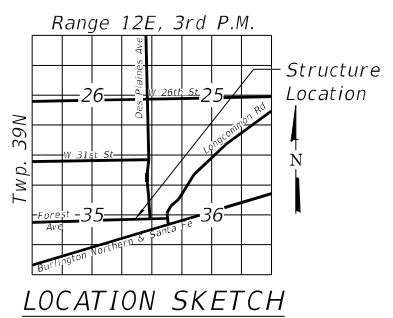
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

DESIGN STRESSES

FIELD UNITS
PROPOSED
 f'c = 4,000 psi
 fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
 f'c = 6,000 psi
 f'ci = 4,700 psi
 fs = 270,000 psi (1/2" O Strands)
 fsi = 189,000 psi (1/2" O Strands)



GENERAL PLAN AND ELEVATION
FOREST AVE OVER DES PLAINES RIVER
F.A.U. ROUTE 1472 - SEC. 2021-067-BDR&BJR
COOK COUNTY
STA. 08+90.50 TO STA. 11+09.51
STRUCTURE NO. 016-0874

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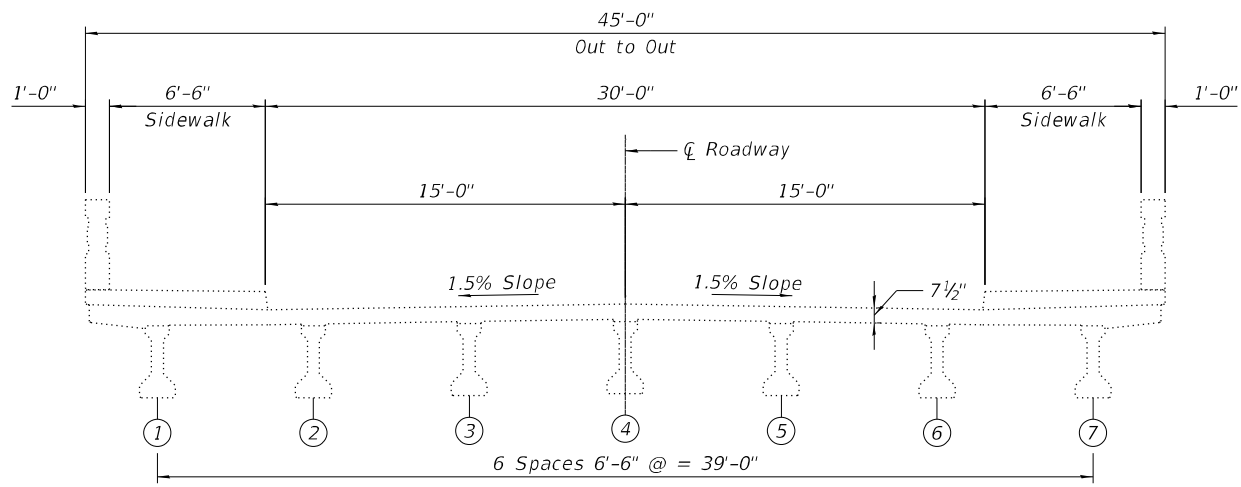


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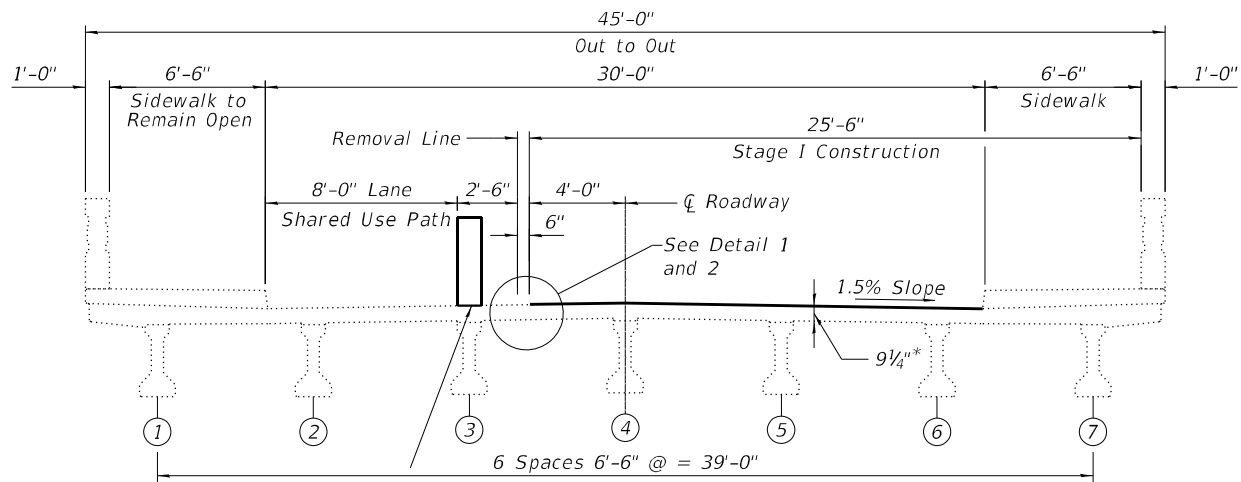
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-0874
 SHEET S1 OF 59 SHEETS

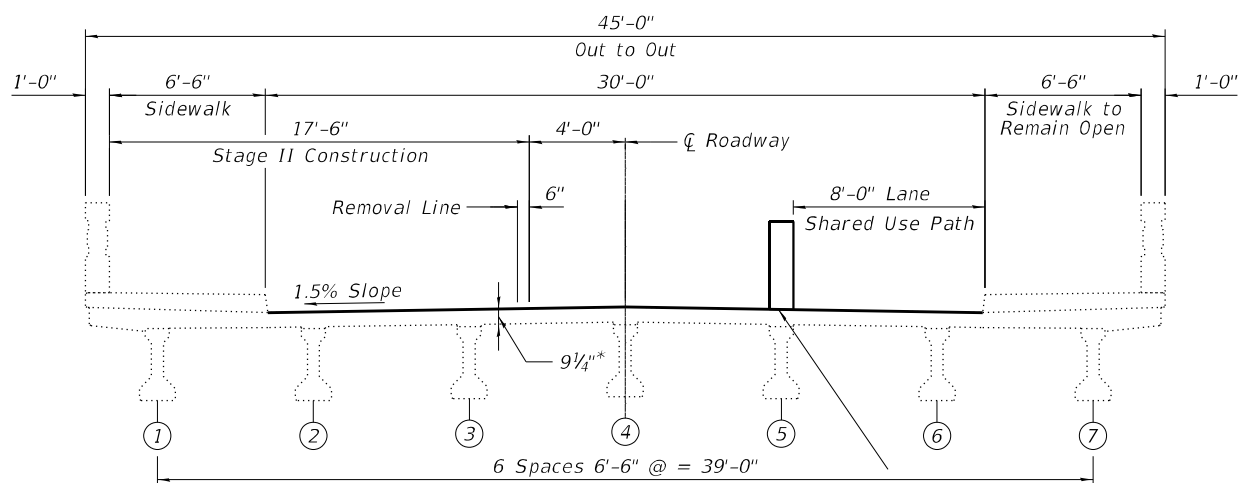
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CONTRACT NO. 62P05				
ILLINOIS FED. AID PROJECT				



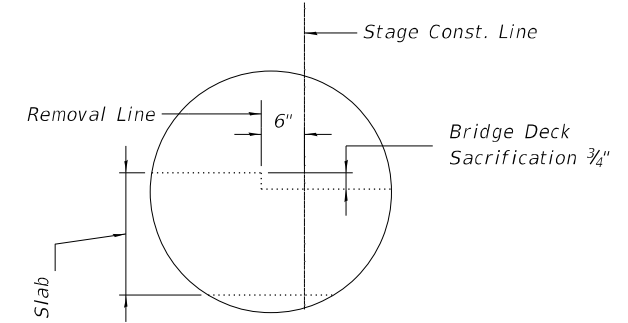
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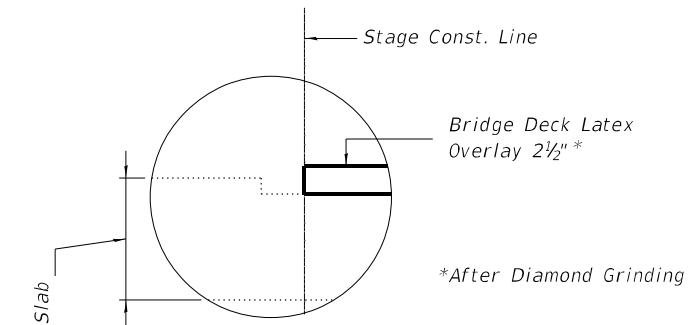
STAGE I
(Looking East)



STAGE II
(Looking East)



DETAIL 1 (Showing Removal)



DETAIL 2 (Showing Proposed)

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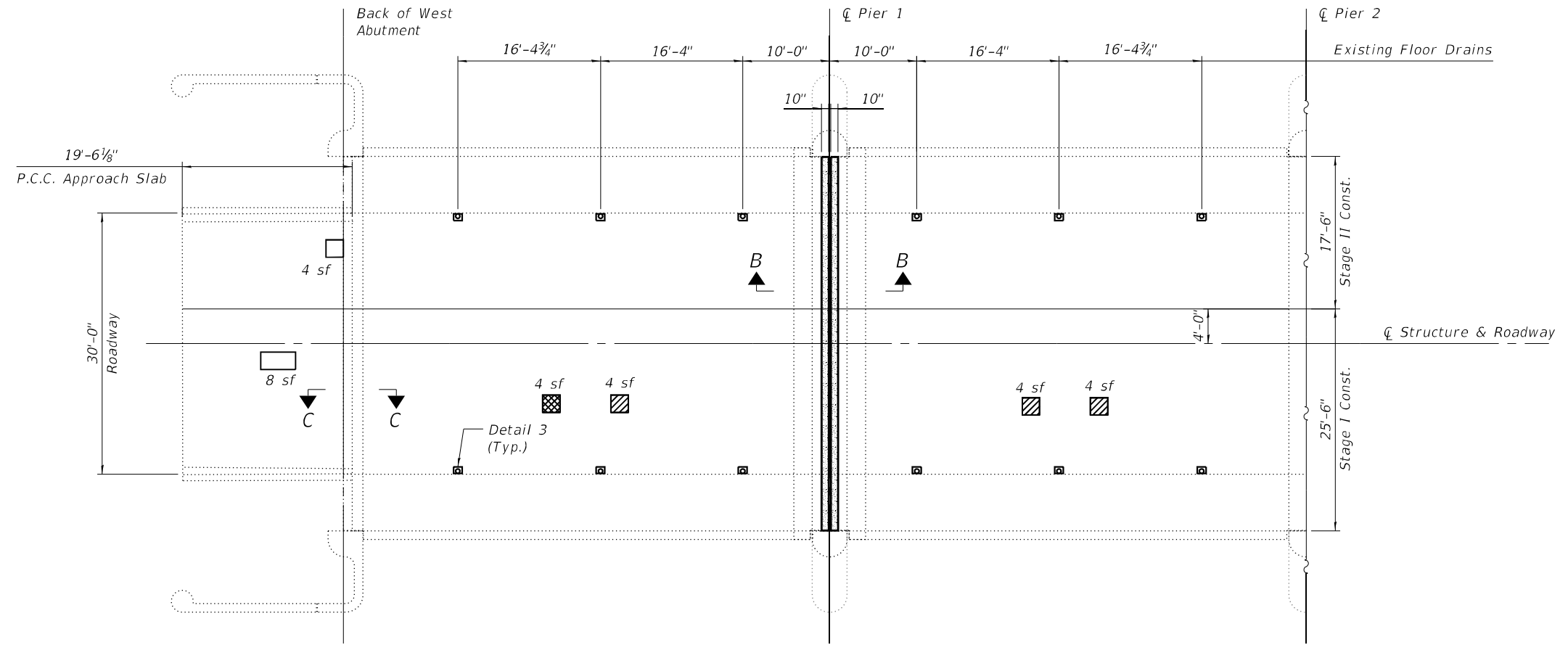
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION / TYPICAL SECTIONS
STRUCTURE NO. 016-0874**

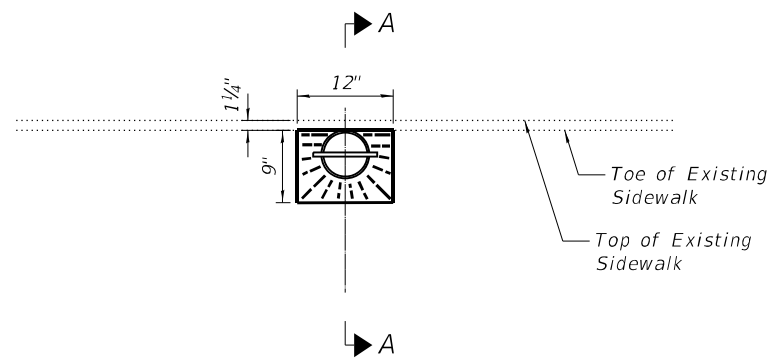
SHEET 52 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-067-BDR&BJR	COOK	26	13
			CONTRACT NO. 62P05	
ILLINOIS FED. AID PROJECT				

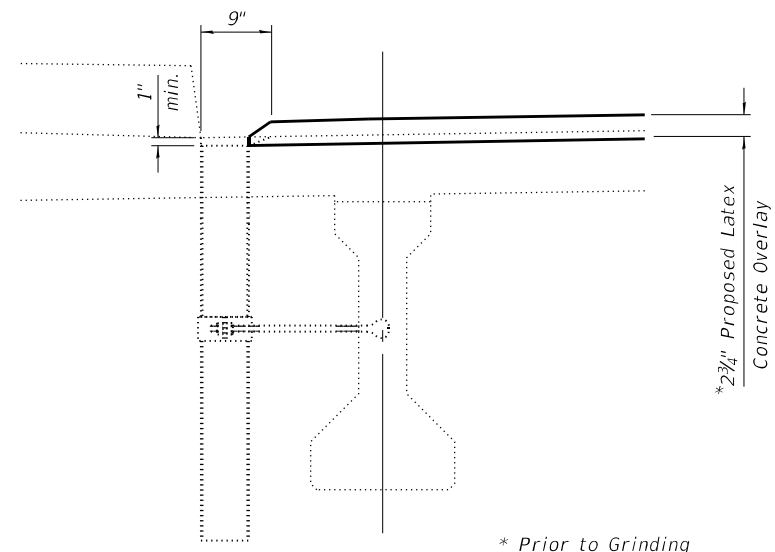
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DECK PLAN



DETAIL 3
 Showing overlay detail at floor drains



SECTION A-A

NOTES

1. Deck Slab Repair areas estimated based on visual inspection completed in November 2021. Actual repair areas and locations shall be determined by the Engineer and shown on the as-built plans.
2. For Section B-B and Expansion Joint Reconstruction Details See Sheet S5.
3. Bridge Deck Scarification, 3/4" and Bridge Deck Latex Concrete Overlay, 2 3/4" shall be performed over the limits of the bridge deck, excluding the transverse joint reconstruction areas.
4. Protective coat shall be applied to the proposed concrete overlay, inside faces of the curbs, reconstructed sidewalks, and the transverse joint reconstruction areas.
5. The Contractor is responsible for preventing debris from falling into the waterway.
6. See Sheet S4 for Section C-C.
7. See Roadway Plans for Approach Overlay.



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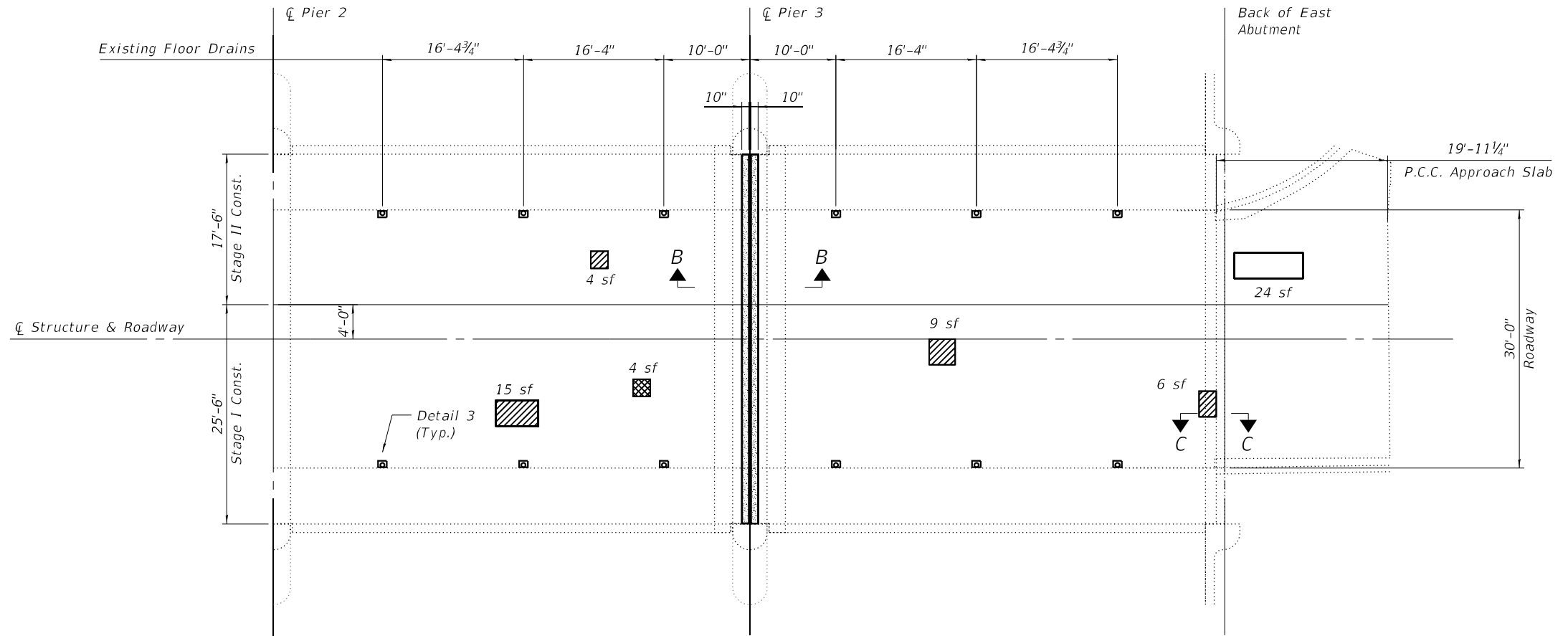
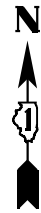
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK PLAN REPAIRS (1 OF 2)
 STRUCTURE NO. 016-0874

SHEET S3 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 62P05
				ILLINOIS FED. AID PROJECT

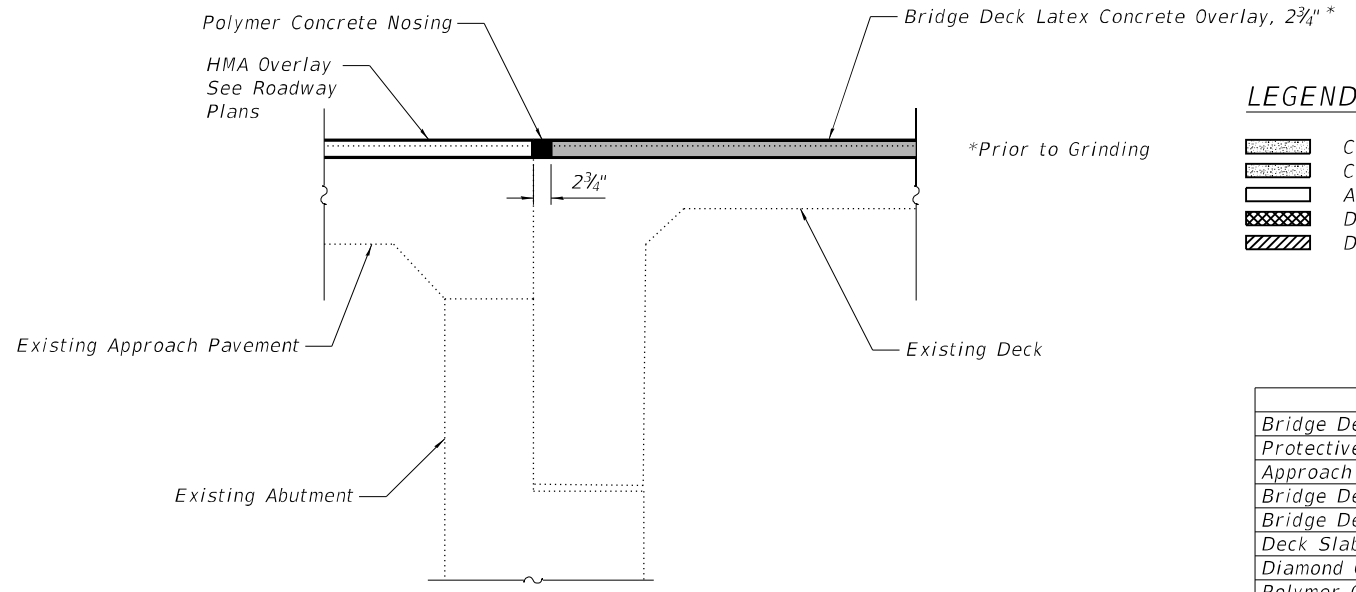
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DECK PLAN

NOTES

- Deck Slab Repair areas estimated based on visual inspection completed in November 2021. Actual repair areas and locations shall be determined by the Engineer and shown on the as-built plans.
- For Section B-B and Expansion Joint Reconstruction Details See Sheet S5.
- Bridge Deck Scarification, 3/4" and Bridge Deck Latex Concrete Overlay, 2 3/4" shall be performed over the limits of the bridge deck, excluding the transverse joint reconstruction areas.
- Protective coat shall be applied to the proposed concrete overlay, inside faces of the curbs, reconstructed sidewalks, and the transverse joint reconstruction areas.
- The Contractor is responsible for preventing debris from falling into the waterway.
- See Roadway Plans for Approach Overlay.
- See Sheet S3 for Detail 3.



SECTION C-C

LEGEND

	Concrete Removal
	Concrete Superstructure
	Approach Slab Repair (Partial Depth)
	Deck Slab Repair (Full Depth, Type I)
	Deck Slab Repair (Partial Depth)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	731
Protective Coat	Sq. Yd.	740
Approach Slab Repair (Partial Depth)	Sq. Yd.	4
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq. Yd.	730
Bridge Deck Scarification 3/4"	Sq. Yd.	730
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Diamond Grinding (Bridge Section)	Sq. Yd.	633
Polymer Concrete	Cu. Ft.	3.1
Portland Cement Concrete Sidewalk 5 Inch, Special	Cu. Ft.	44



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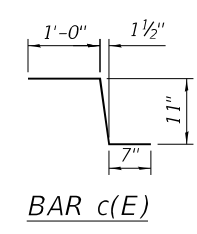
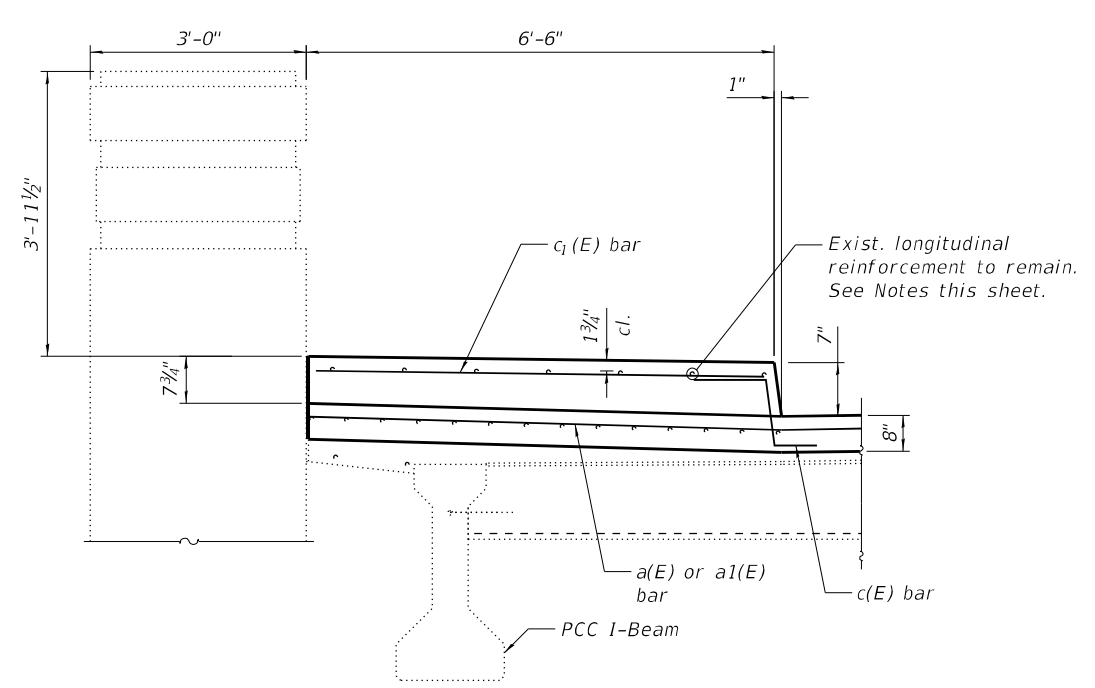
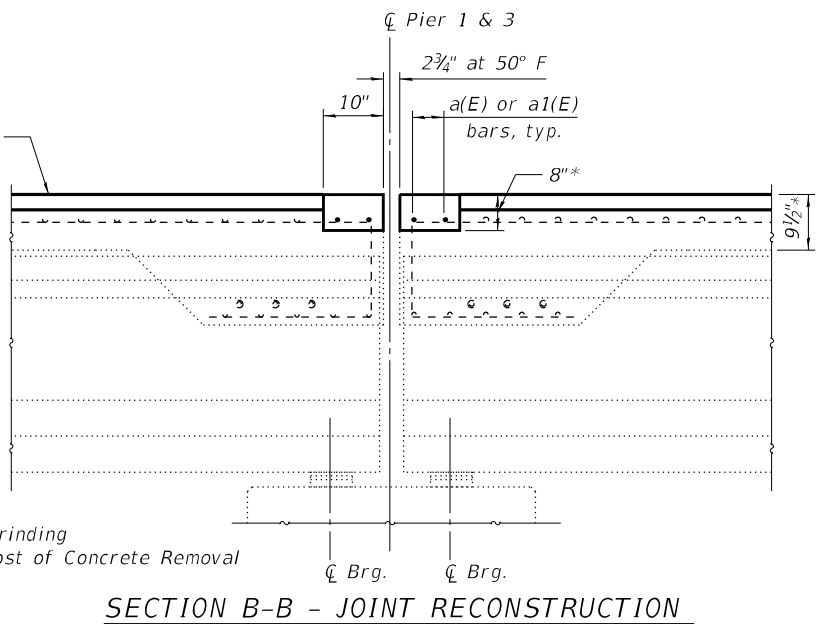
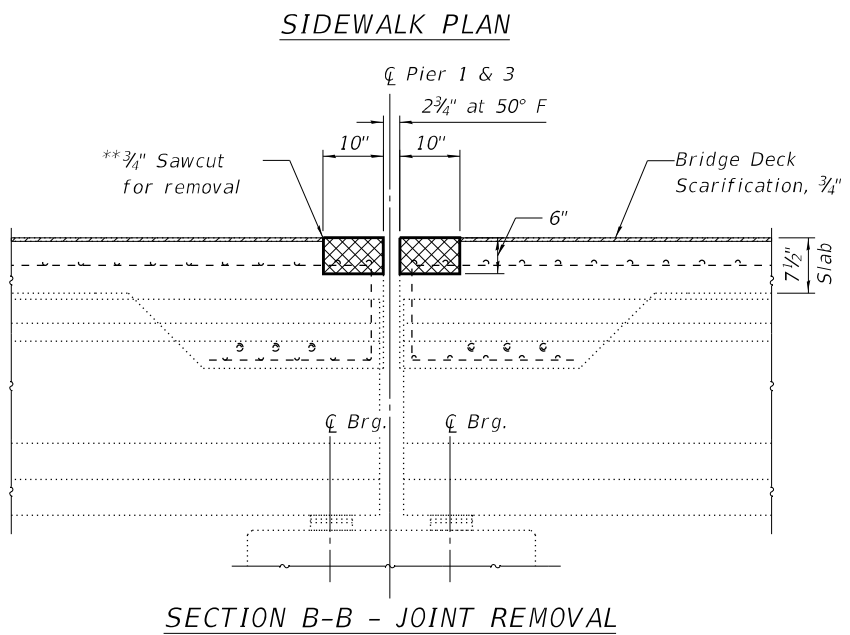
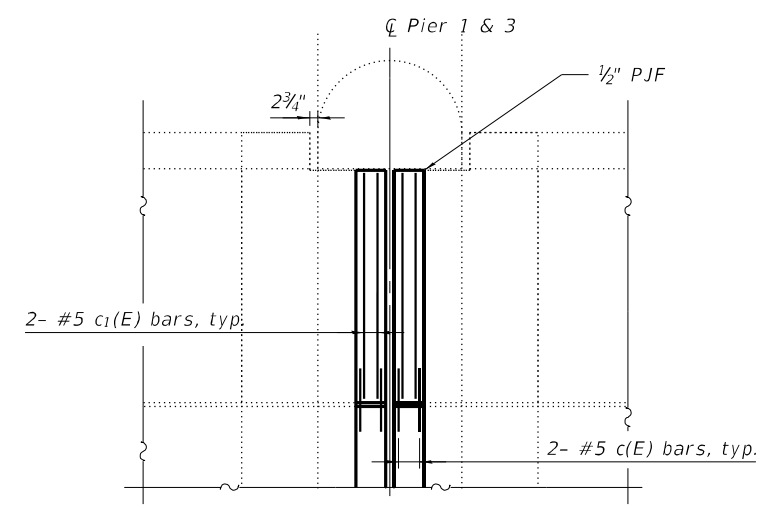
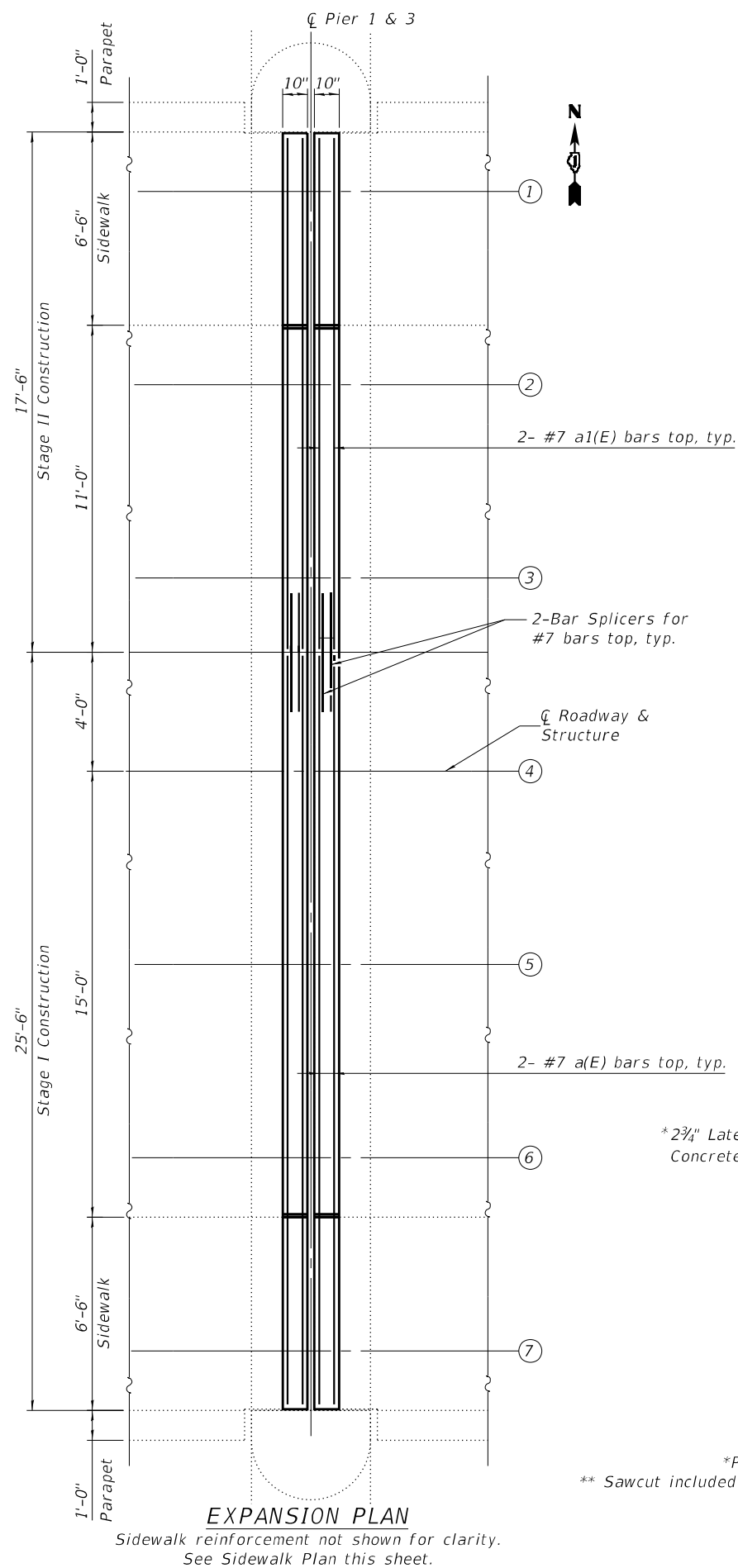
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK PLAN REPAIRS (2 OF 2)
 STRUCTURE NO. 016-0874

SHEET S4 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62P05	
ILLINOIS FED. AID PROJECT				

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NOTES

For details of Preformed Joint Strip Seal Expansion Joints, see Sheet No. S6 & S7
 For Bar Splicer details, see Sheet No. S8
 Reinforcement bars designated (E) shall be epoxy coated. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Cost included with Concrete Removal.
 Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchor age system. Cost included with Concrete Removal.
 The reconstructed sidewalk shall be closely resemble the color and exposed the color and exposed surface finish of the adjacent sidewalk to remain in place. Cost included with Concrete Superstructure (Special). See Special Provisions.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#7	25'-3"	—
a1(E)	8	#7	17'-3"	—
c(E)	16	#5	2'-6"	┘
c1(E)	16	#5	6'-3"	—
Concrete Removal			Cu. Yd.	3.8
Concrete Superstructure			Cu. Yd.	3.6
Concrete Superstructure (Special)			Cu. Yd.	1.1
Reinforcement Bars. Epoxy Coated			Pound	850

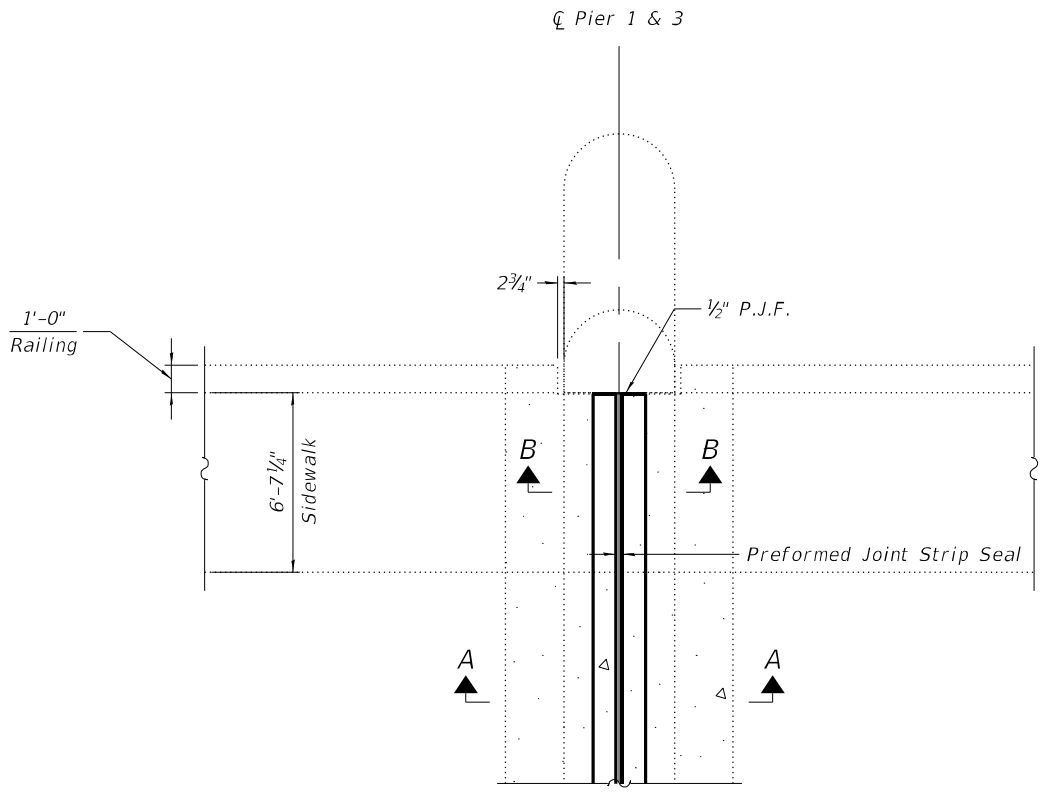


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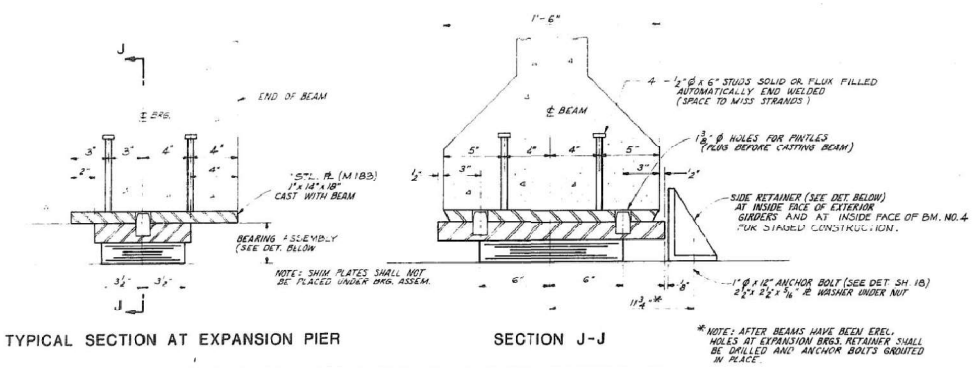
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPAIRS - PIERS 1 & 3
 STRUCTURE NO. 016-0874**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62P05	
		ILLINOIS FED. AID PROJECT		

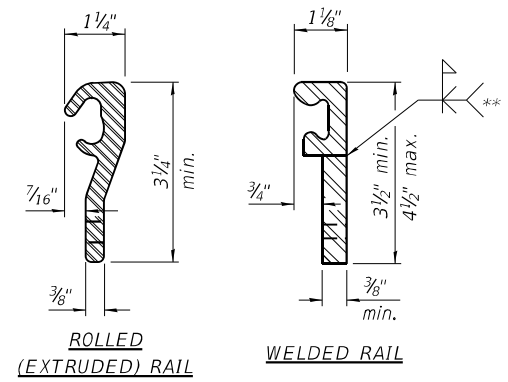


TYPICAL EXPANSION PLAN
PIERS 1 & 3



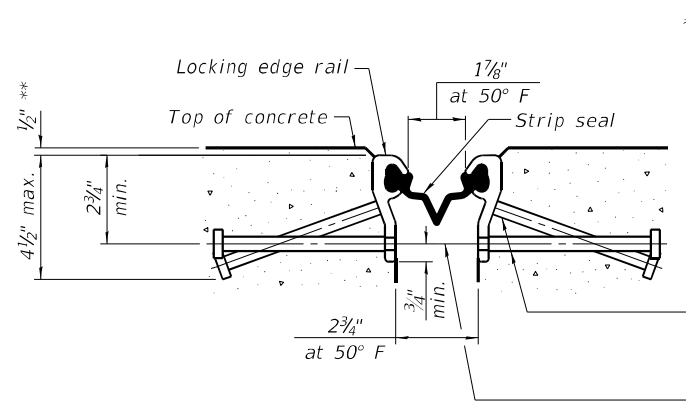
EXISTING BEARING DETAIL (FOR INFORMATION ONLY)

Clean and Paint exposed steel portion on expansion bearing.
Cost included with Cleaning and Painting Bearing.
See Special Provision.

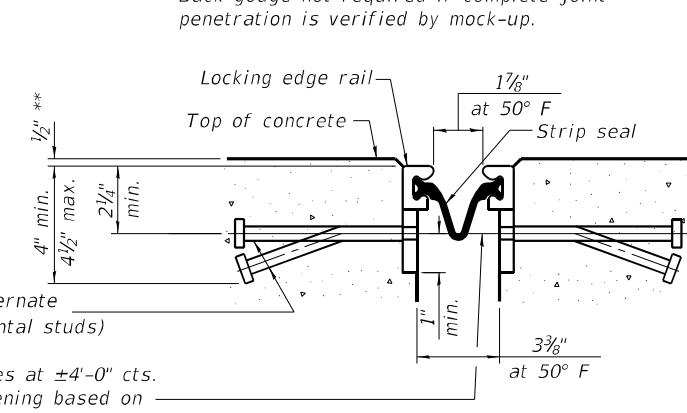


LOCKING EDGE RAILS

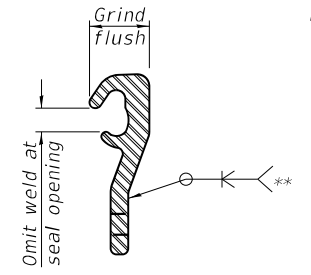
** Back gouge not required if complete joint penetration is verified by mock-up.



SHOWING ROLLED RAIL JOINT



SHOWING WELDED RAIL JOINT



LOCKING EDGE RAIL SPLICE

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

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.
Cost of sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.
The cost of 1/2" Preformed Joint Filler installed between the edge of proposed concrete deck the architectural pier column shall be included with Concrete Superstructure.
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.
Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Bearings". All bearings at Piers 1 and 3 shall be cleaning per Near White Cleaning - SSPC - SP10.
The designated areas cleaned per Near White Blast Cleaning shall be painted according to requirements of Organics Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Topcoat (OZ/E/U). The color of the final coat for all steel surfaces shall be Gray, Munsell No. SB 7/1.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	86
Cleaning and Painting Bearings	Each	28

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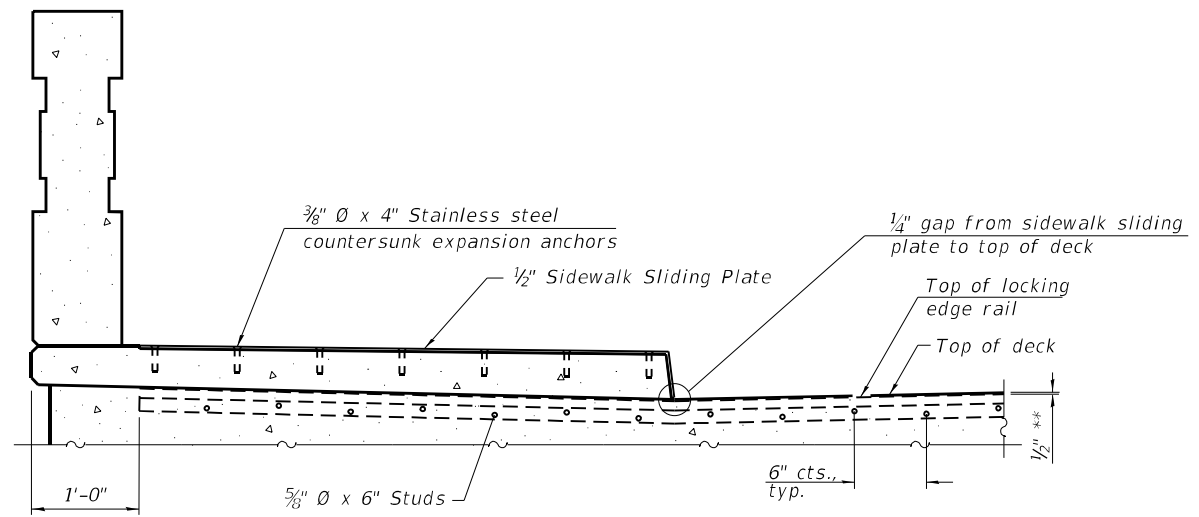
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL (1 OF 2)
STRUCTURE NO. 016-0874

SHEET 56 OF 59 SHEETS

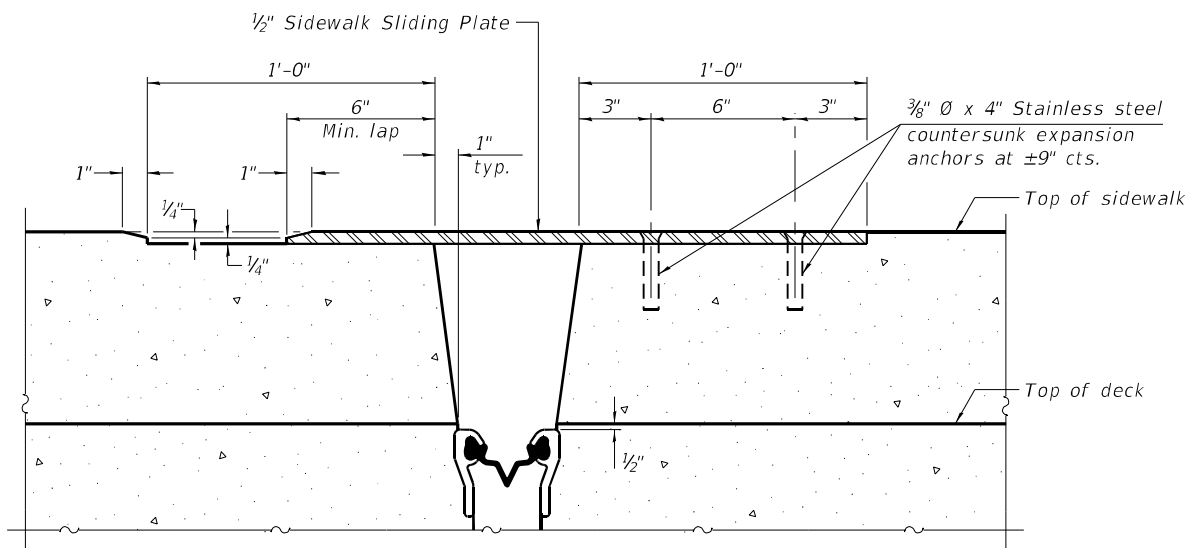
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			CONTRACT NO. 62P05	
		ILLINOIS FED. AID PROJECT		

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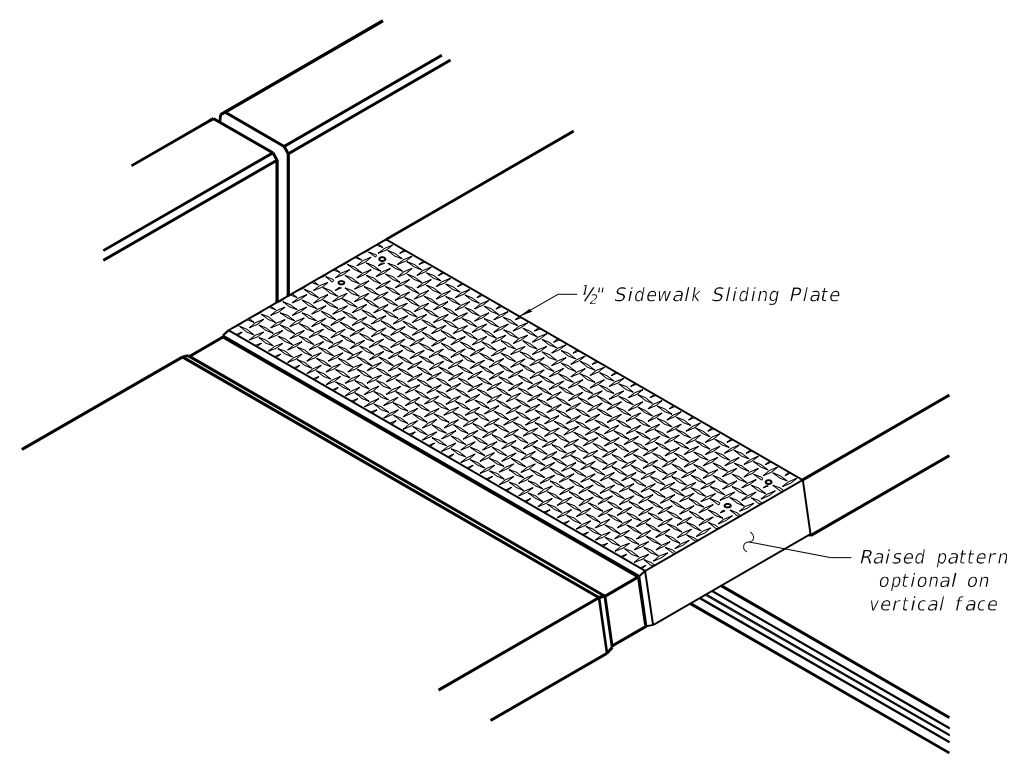


SECTION AT RAISED SIDEWALK

** Prior to 1/4" Grinding



SECTION B-B



TRIMETRIC VIEW



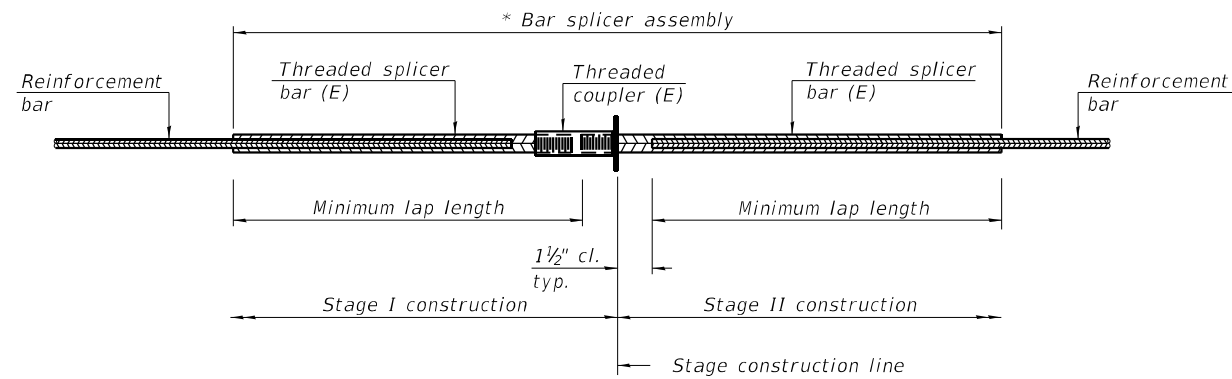
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL (2 OF 2)
 STRUCTURE NO. 016-0874**

SHEET 57 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-067-BDR&BJR	COOK	26	18
			CONTRACT NO. 62P05	
			ILLINOIS FED. AID PROJECT	

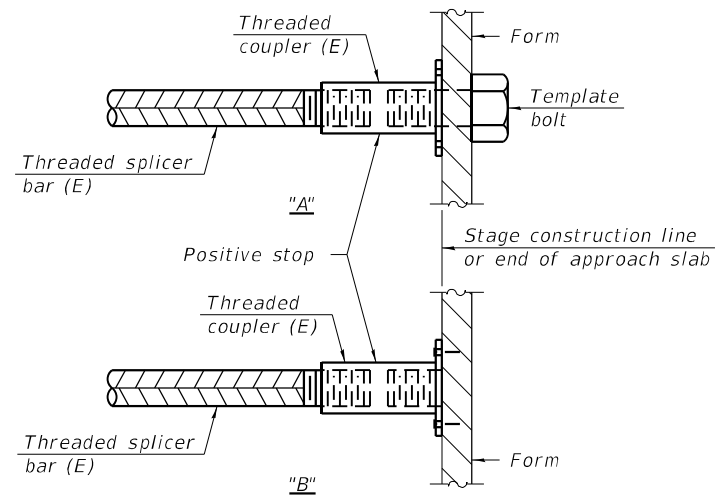


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

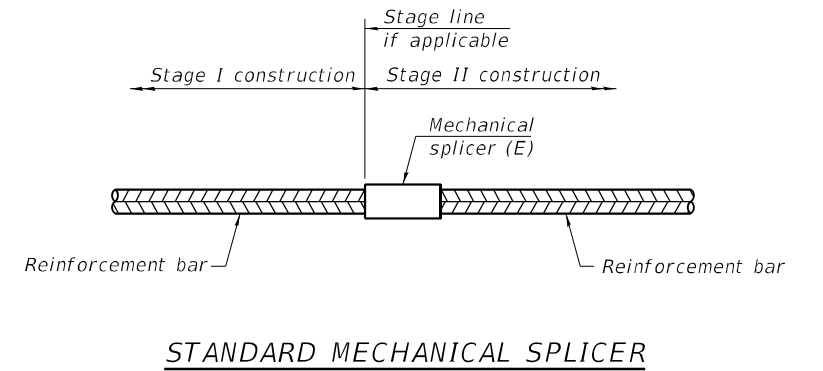
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
East of Pier 1	7	2	4'-8"
West of Pier 1	7	2	4'-8"
East of Pier 3	7	2	4'-8"
West of Pier 3	7	2	4'-8"



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

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.

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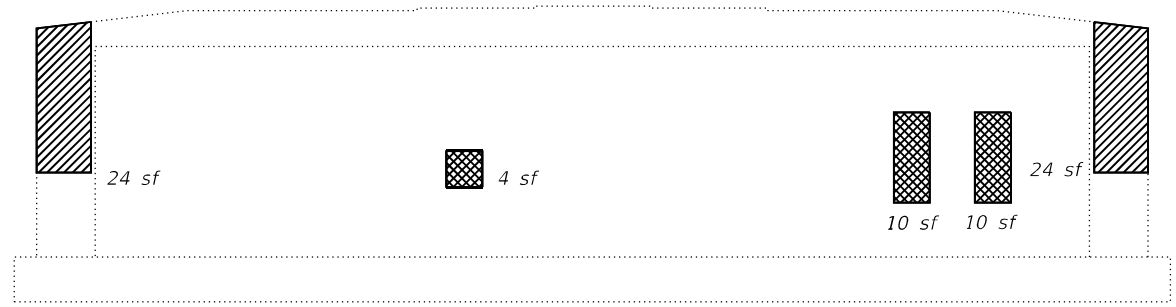
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY
 STRUCTURE NO. 016-0874

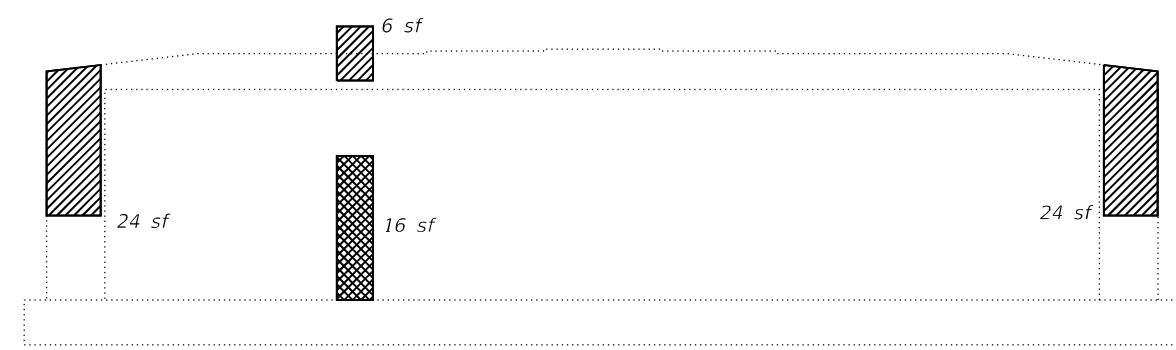
SHEET 58 OF 59 SHEETS

F.A.U. RTE. 1472	SECTION 2021-067-BDR&BJR	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 19
				CONTRACT NO. 62P05
ILLINOIS FED. AID PROJECT				

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PIER 1 ELEVATION
(Looking West)



PIER 1 ELEVATION
(Looking East)



PIER 2 ELEVATION
(Looking West)



PIER 2 ELEVATION
(Looking East)



PIER 3 ELEVATION
(Looking West)



PIER 3 ELEVATION
(Looking East)

BILL OF MATERIAL

LEGEND	ITEM	UNIT	TOTAL
	Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	314
	Structural Repair of Concrete (Depth Greater than 5 inches)	Sq. Ft.	80
	Cleaning Bridge Seats	Sq. Ft.	344



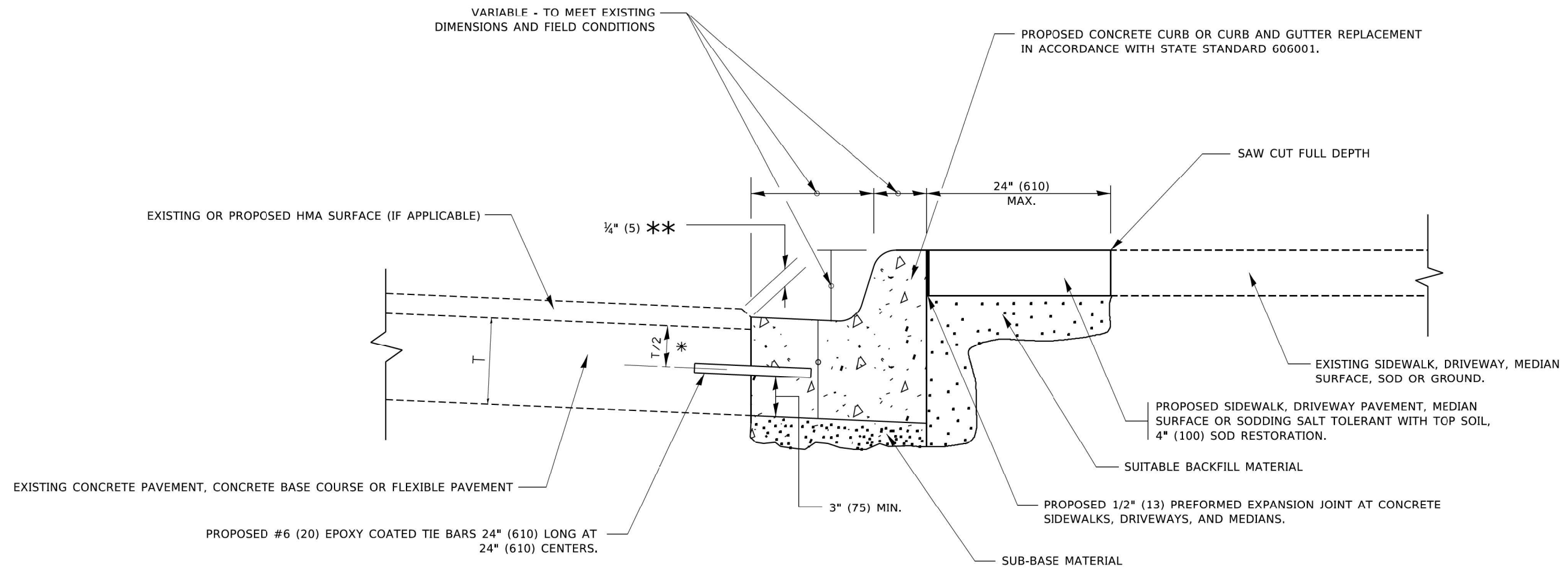
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-0874**

SHEET 59 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62P05	
		ILLINOIS FED. AID PROJECT		

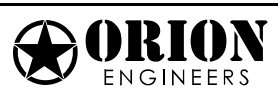


- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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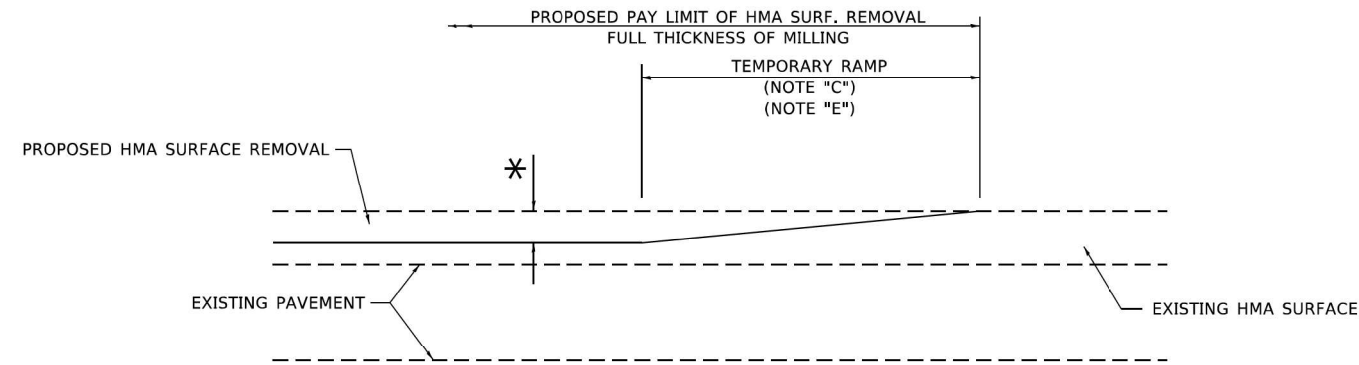


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

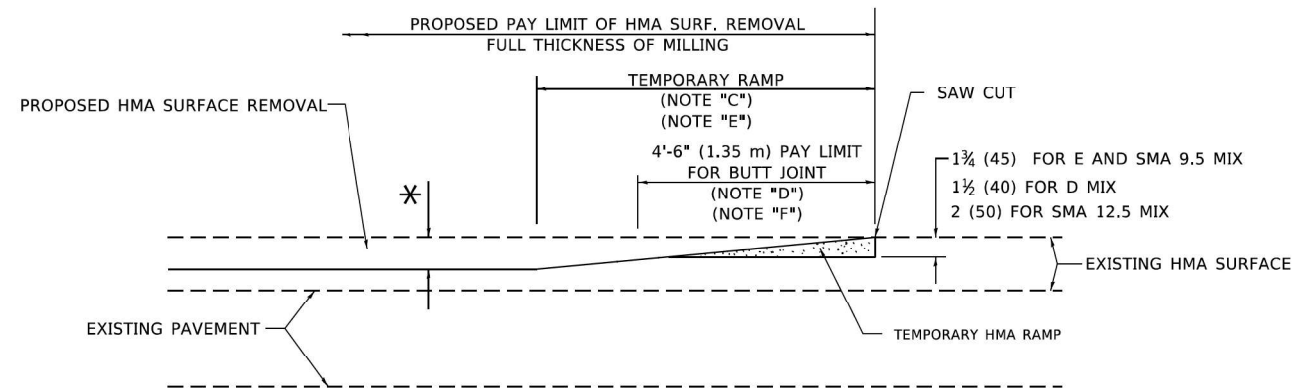
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	
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BD-600-06 (BD-24)		CONTRACT NO. 62P05		
ILLINOIS FED. AID PROJECT				



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

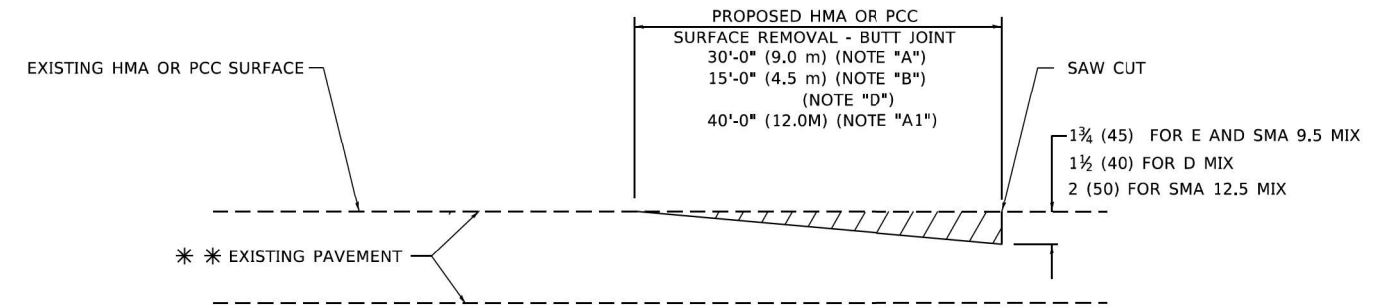
OPTION 1



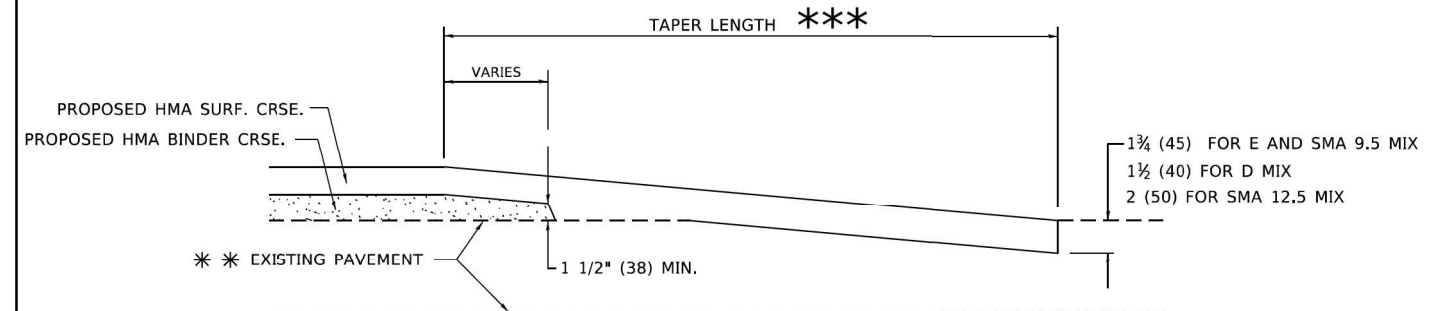
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

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.

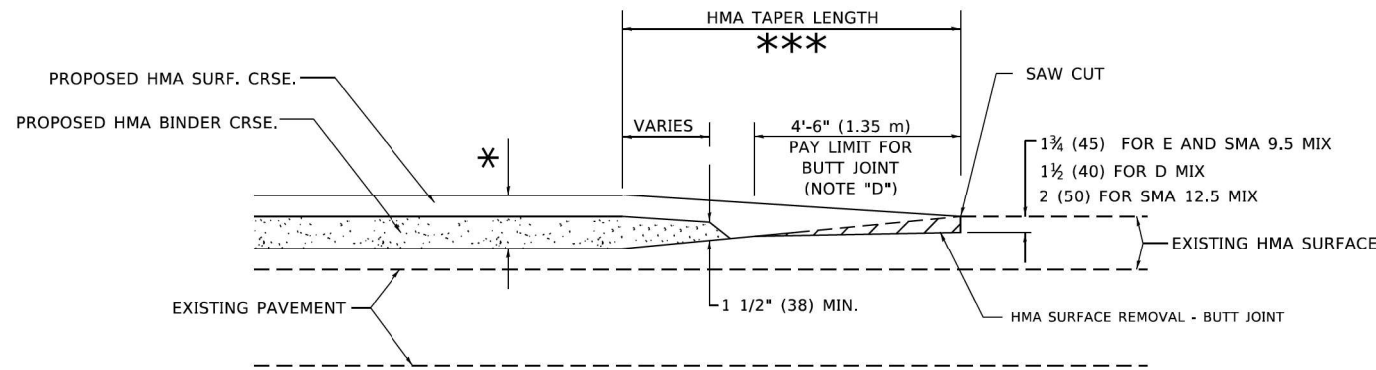
GENERAL NOTES

- 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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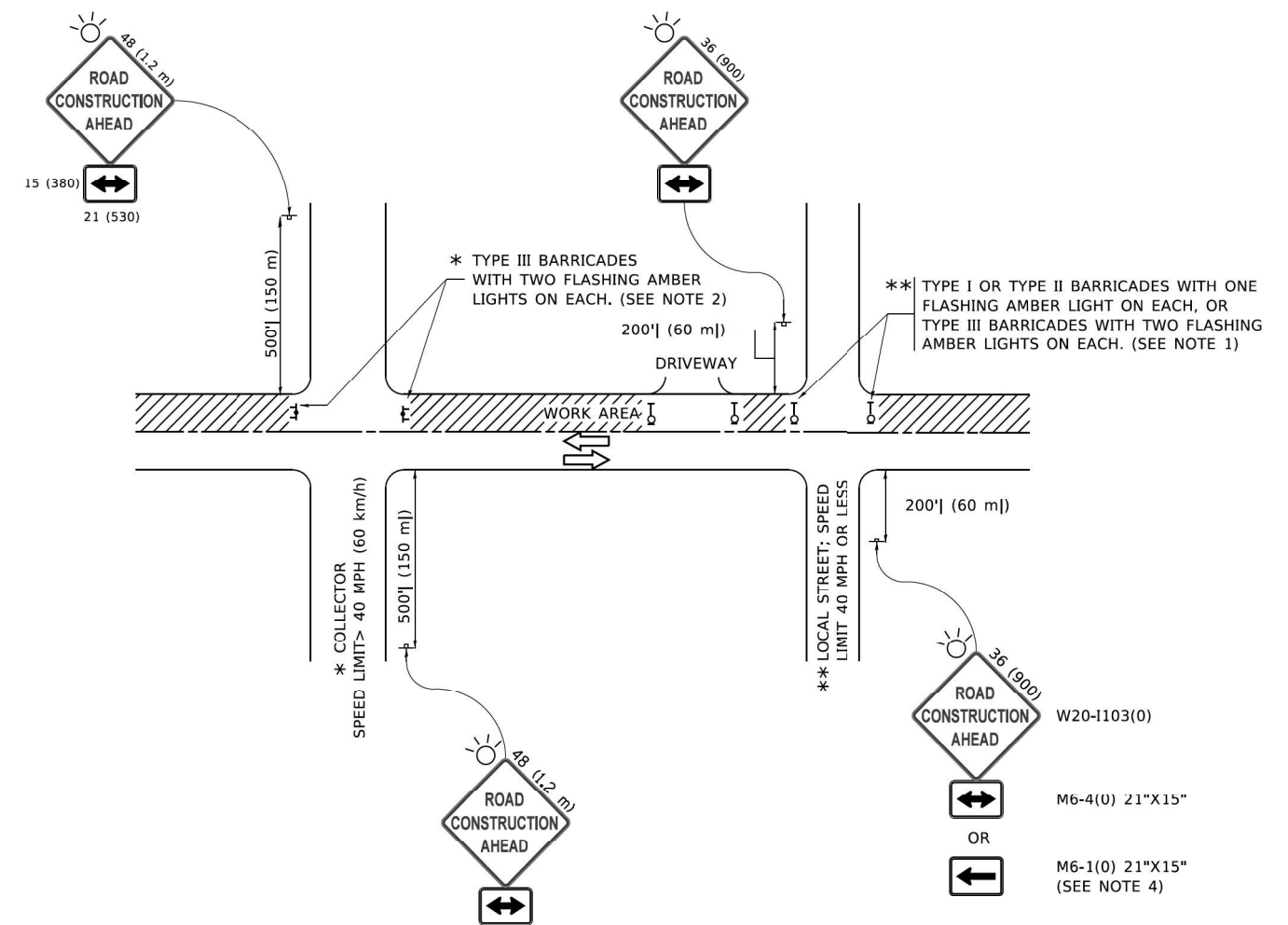
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
HMA TAPER DETAILS

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&BJR	COOK	26	22
BD400-05 BD-32			CONTRACT NO. 62P05	
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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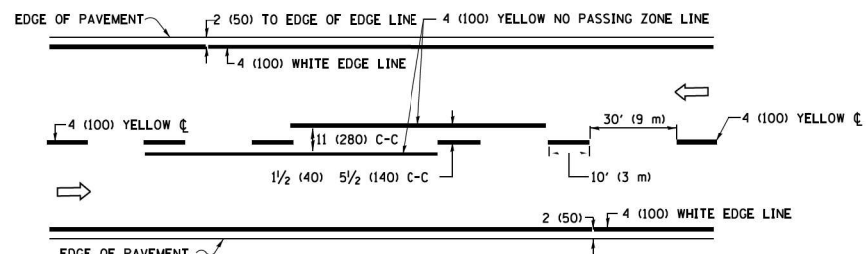
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

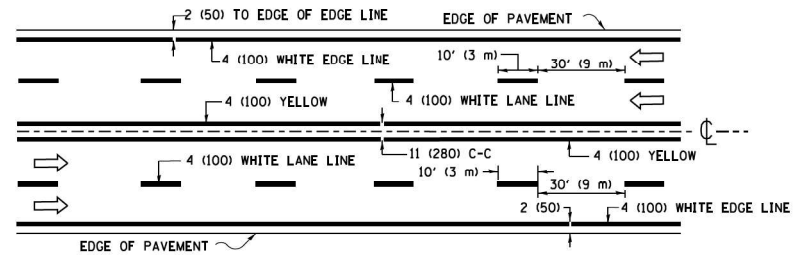
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

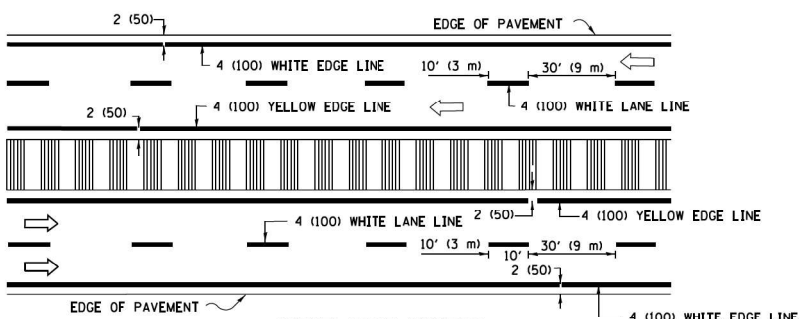
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TC-10			CONTRACT NO. 62P05	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

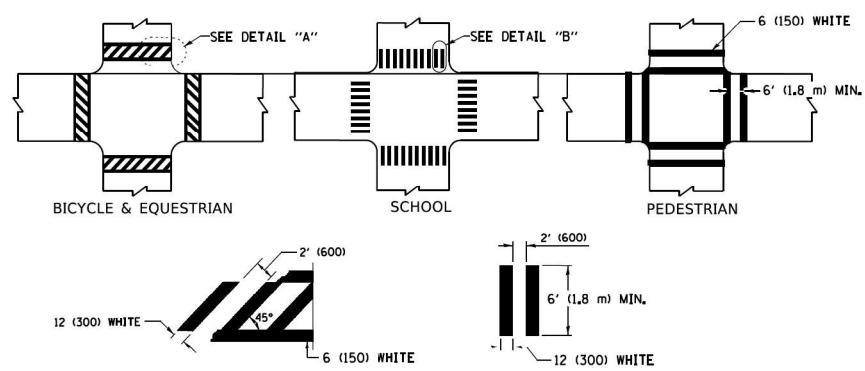


MULTI-LANE UNDIVIDED



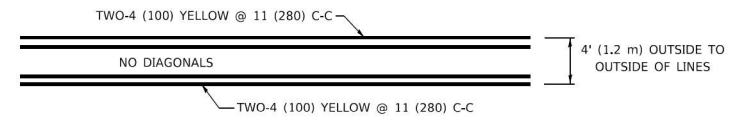
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

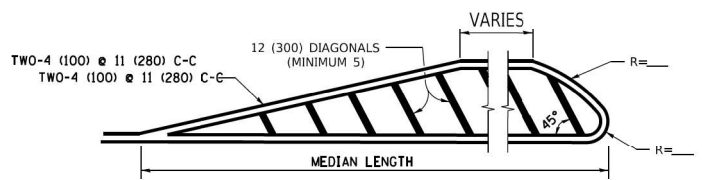


TYPICAL CROSSWALK MARKING

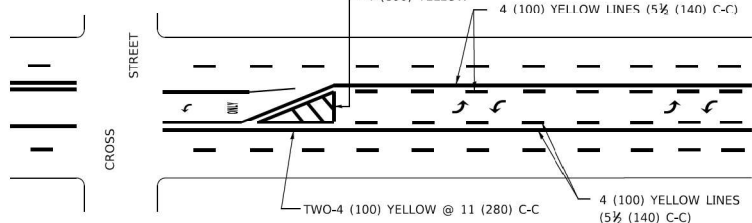
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



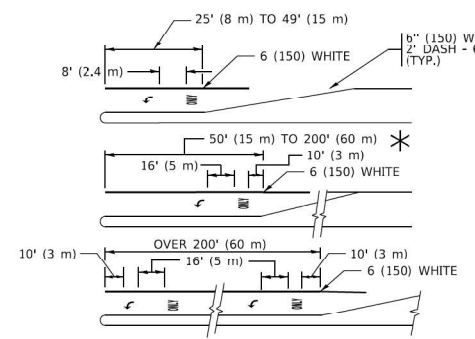
4' (1.2 m) WIDE MEDIANS ONLY



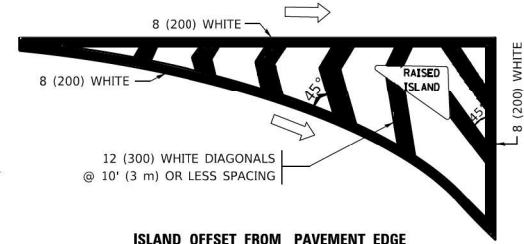
MEDIANS OVER 4' (1.2 m) WIDE



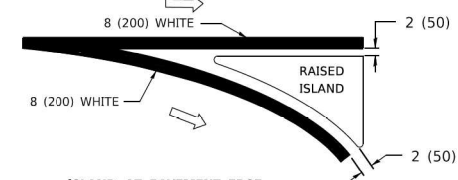
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



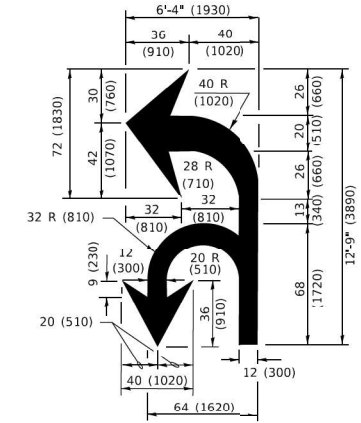
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



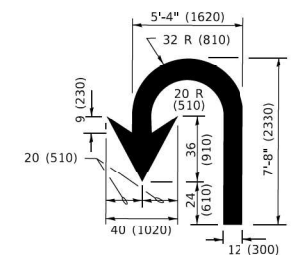
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	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 (30 MPH (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 ² EACH) *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
TYPICAL PAVEMENT MARKINGS	
SCALE: N.T.S	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-13		CONTRACT NO. 62P05		
ILLINOIS FED. AID PROJECT				

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ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

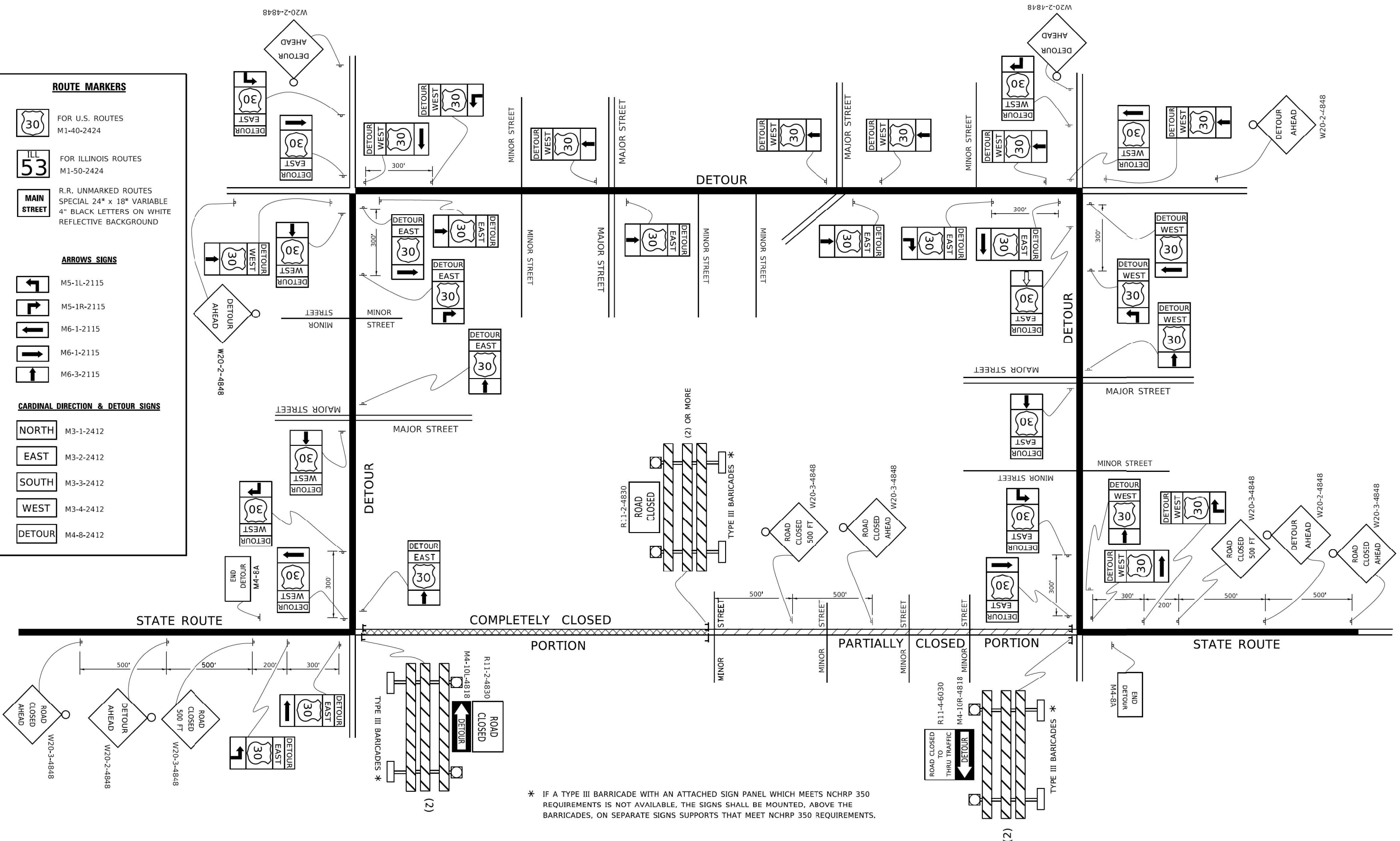
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



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



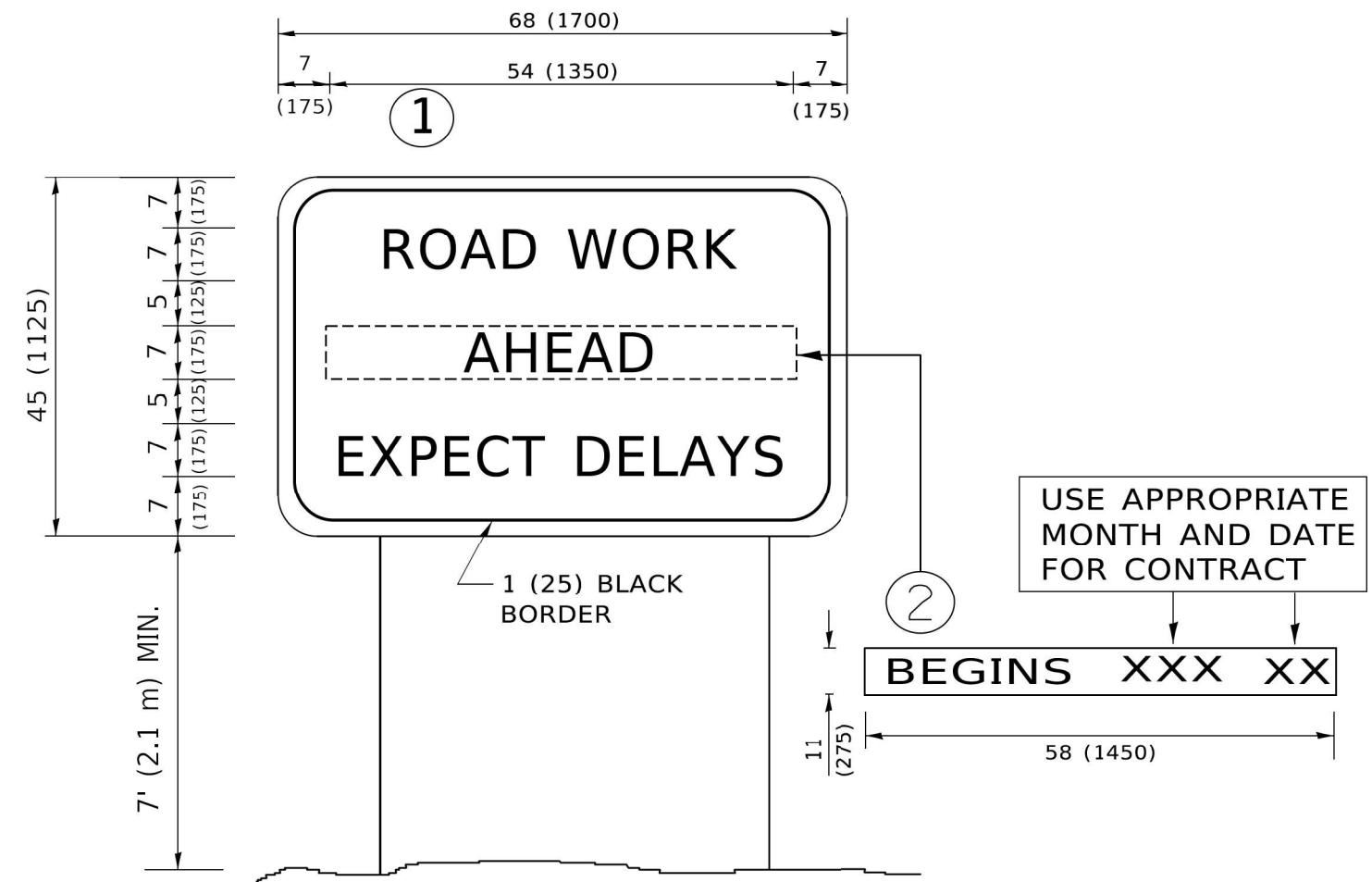
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING
 FOR CLOSING STATE HIGHWAYS

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&BJR	COOK	26	25
TC-21		CONTRACT NO. 62P05		
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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	2021-075-BDR&BJR	COOK	26	26
TC-22			CONTRACT NO. 62P05	
ILLINOIS FED. AID PROJECT				