

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	22	1
ILLINOIS CONTRACT NO. 62M78				

\* 22 + 3 = 25 TOTAL SHEETS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGES OF  
MAYWOOD AND FOREST PARK

TRAFFIC DATA

ADT 22,600 (2019)

POSTED SPEED LIMIT

35 MPH

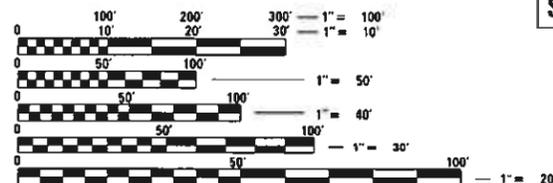
PROPOSED  
HIGHWAY PLANS

FAP ROUTE 372: ILLINOIS ROUTE 171 (1ST AVE)  
OVER I-290  
SECTION: 2020-204-BR&BJR  
BRIDGE REPAIR & BRIDGE JOINT REPAIR  
COOK COUNTY

C-91-408-20



IMPROVEMENT LOCATION  
SN 016-0699



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 MANAGER: ALAIN MIDY (847) 221-3056

CONTRACT NO. 62M78

GROSS LENGTH = 1130.229 FT. = 0.214 MILE  
NET LENGTH = 1130.229 FT. = 0.214 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 3, 2020  
*Anthony J. Rungt* REGIONAL ENGINEER  
October 2, 2020  
*Scott A. Elk*  
ENGINEER OF DESIGN AND ENVIRONMENT  
October 2, 2020  
*James M. Jan*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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**STATE STANDARDS**

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS. MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-10	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTAVERSABLE MEDIAN
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
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF MAYWOOD AND FOREST PARK.

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

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.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR VIA EMAIL AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

EXISTING PAVEMENT MARKINGS SHALL BE TEMPORARILY COVERED PRIOR TO APPLICATION OF THE DECK SURFACE TREATMENT, TO PREVENT THE MATERIAL FROM BEING APPLIED TO THE MARKINGS AND TO PROTECT THE REFLECTIVE PROPERTIES OF THE MARKINGS. THE TEMPORARY COVERING MATERIAL USED SHALL BE SUCH THAT IT WILL NOT AFFECT THE MARKINGS REFLECTIVITY WHEN REMOVED AFTER APPLICATION OF THE DECK SURFACE TREATMENT AND PRIOR TO OPENING TO TRAFFIC. COST INCLUDED WITH CONCRETE SEALER.

THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS NOR HOLIDAYS.

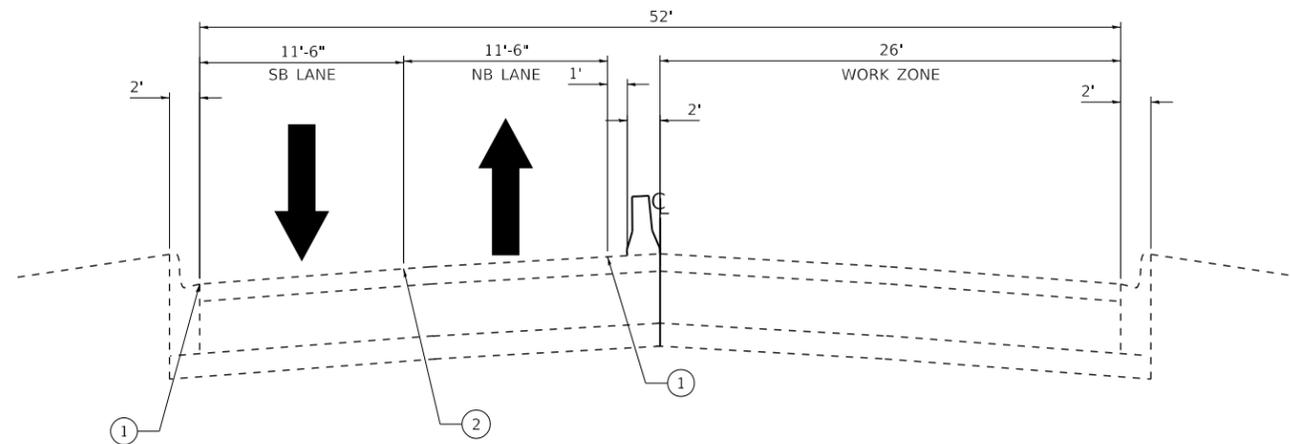
THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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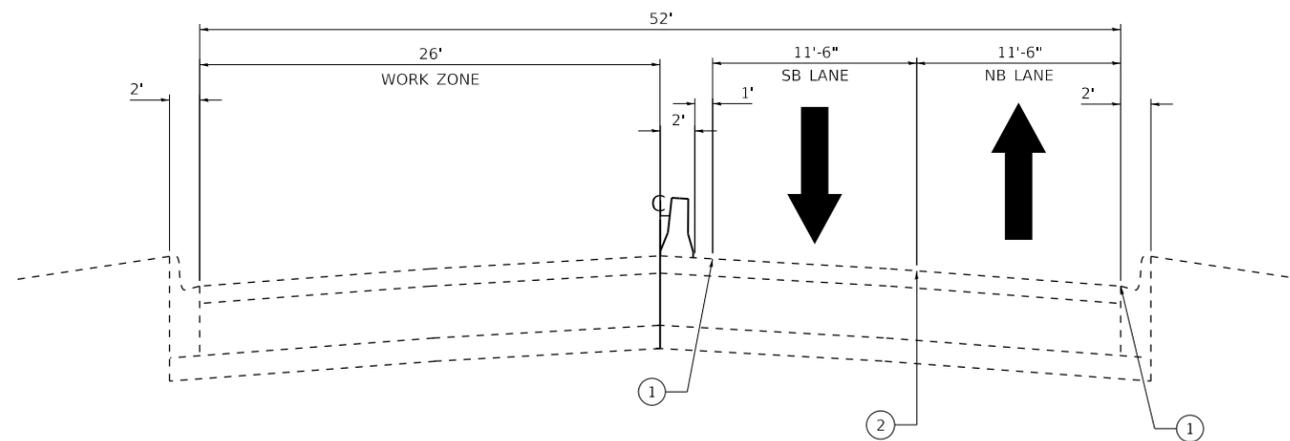
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	DATE -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 62M78				
							ILLINOIS FED. AID PROJECT				





**IL 171 (1ST AVE.)**

STAGE 1 CONSTRUCTION (LOOKING NORTH)  
STA 10+35 TO STA 12+45



**IL 171 (1ST AVE.)**

STAGE 2 CONSTRUCTION (LOOKING NORTH)  
STA 10+35 TO STA 12+45

**LEGEND:**

- ① PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE)
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW)

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION  
1ST AVENUE OVER I-290**

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

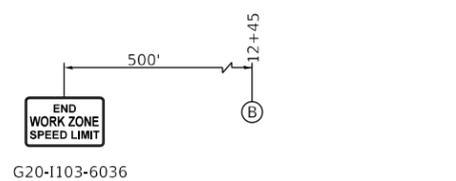
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372	2020-204-BR&BJR	COOK	22	4
CONTRACT NO. 62M78				
ILLINOIS		FED. AID PROJECT		

**MOT SYMBOL LEGEND**

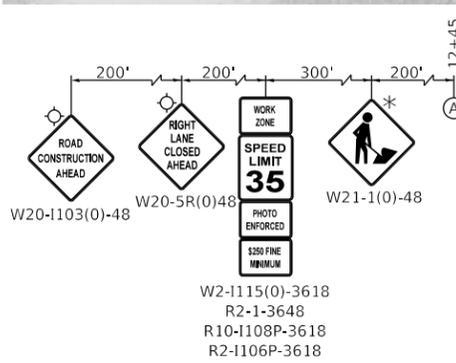
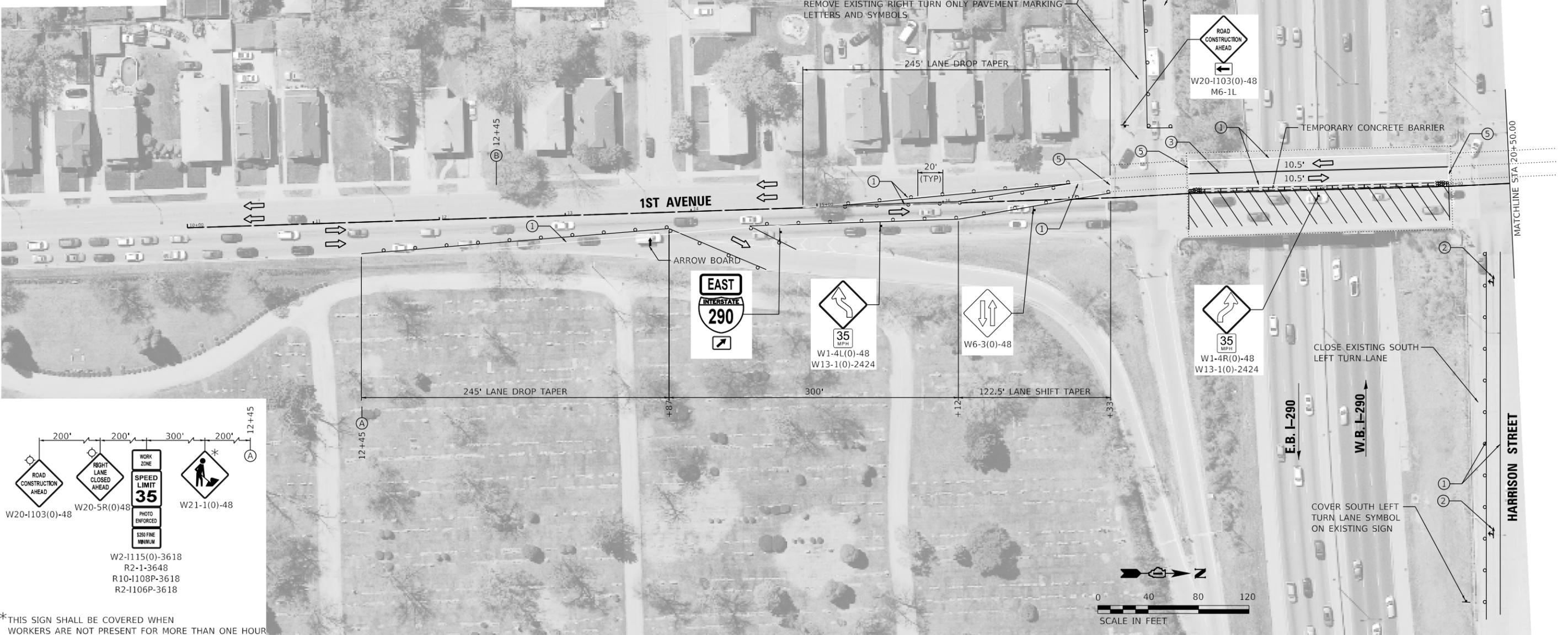
- WORK ZONE
- TYPE II BARRICADES OR DRUMS (SPACED 50' C-C OR AS NOTED BELOW) DEVICES IN TAPER (20' C-C) DEVICES IN RADII (10' C-C)
- BARRICADE OR DRUM WITH FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- HIGH INTENSITY AMBER LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW, TEST LEVEL 3)

**MOT PROPOSED LEGEND**

- PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE) (70300904)
- PAVEMENT MARKING TAPE, TYPE IV 4" (LETTERS AND SYMBOLS WHITE) (70300904)
- PAVEMENT MARKING TAPE, TYPE IV 4" (YELLOW) (70300904)
- PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW) (70300904)
- PAVEMENT MARKING TAPE, TYPE IV 24" (WHITE) (70300924)
- PAVEMENT MARKING TAPE, TYPE IV 8" (WHITE) (70300908)
- PAVEMENT MARKING TAPE, TYPE IV 8" (3'-DASH 9'-SKIP WHITE) (70300908)



G20-1103-6036



\*THIS SIGN SHALL BE COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

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PLOT DATE = 9/21/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC 1ST AVENUE OVER I-290 (STAGE 1)</b>	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	5	25
CONTRACT NO. 62M78				
ILLINOIS FED. AID PROJECT				



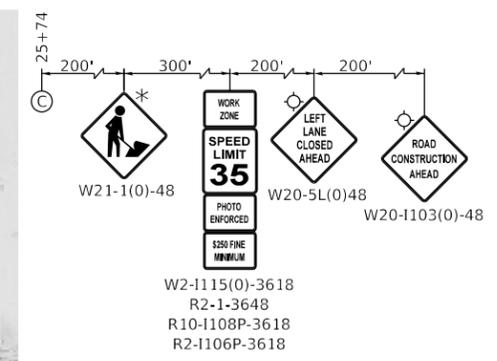


**MOT SYMBOL LEGEND**

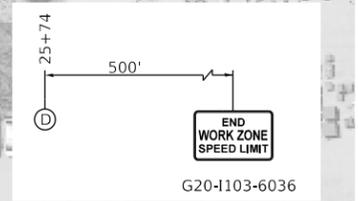
- WORK ZONE
- TYPE II BARRICADES OR DRUMS (SPACED 50' C-C OR AS NOTED BELOW)  
DEVICES IN TAPER (20' C-C)  
DEVICES IN RADII (10' C-C)
- BARRICADE OR DRUM WITH FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- HIGH INTENSITY AMBER LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW, TEST LEVEL 3)

**MOT PROPOSED LEGEND**

- 1 PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE) (70300904)
- 2 PAVEMENT MARKING TAPE, TYPE IV 4" (LETTERS AND SYMBOLS WHITE) (70300904)
- 3 PAVEMENT MARKING TAPE, TYPE IV 4" (YELLOW) (70300904)
- 4 PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW) (70300904)
- 5 PAVEMENT MARKING TAPE, TYPE IV 24" (WHITE) (70300924)
- 6 PAVEMENT MARKING TAPE, TYPE IV 8" (WHITE) (70300908)
- 7 PAVEMENT MARKING TAPE, TYPE IV 8" (3'-DASH 9'-SKIP WHITE) (70300908)



\*THIS SIGN SHALL BE COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

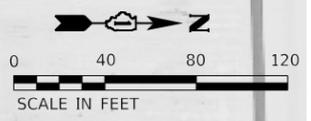
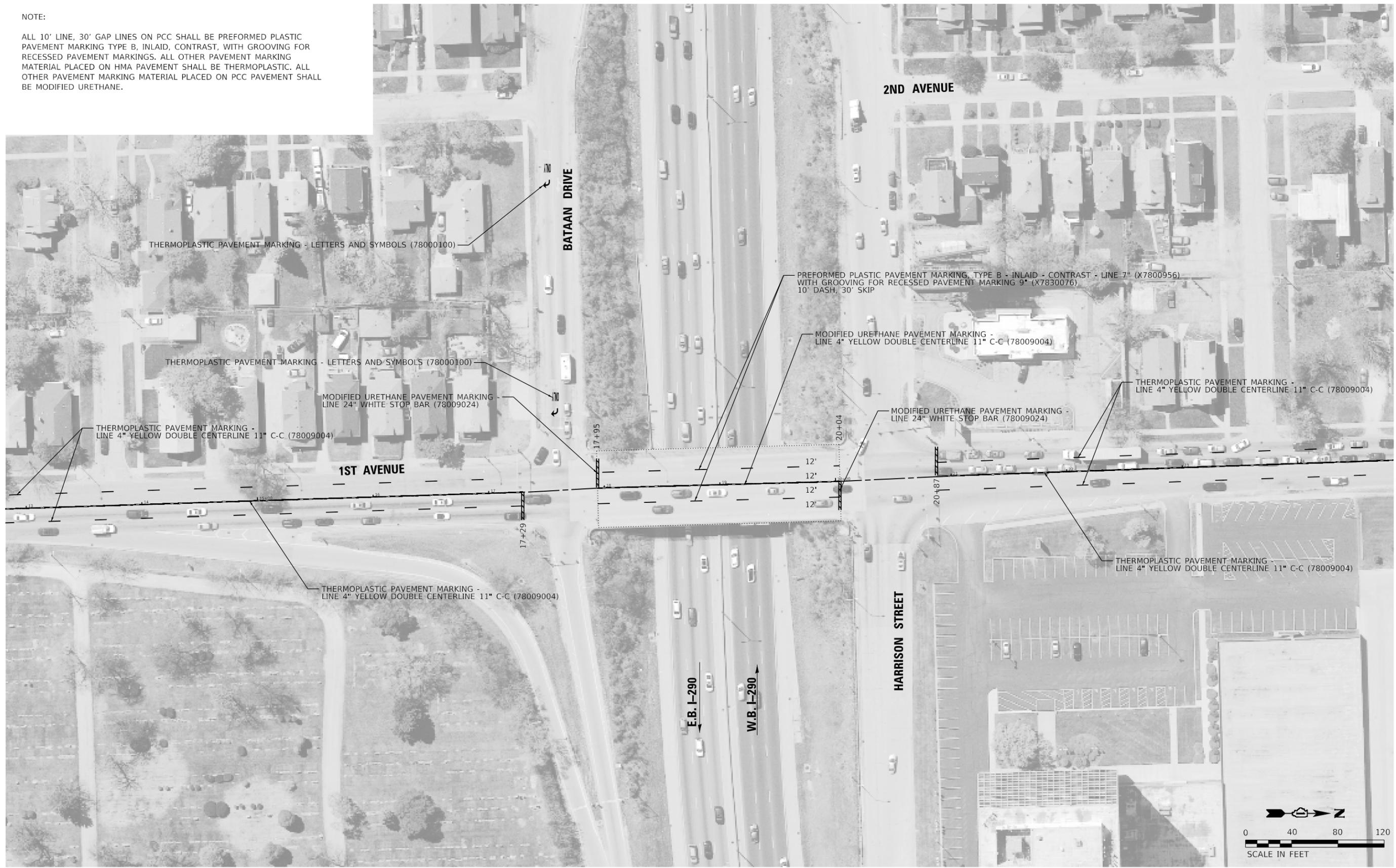
**MAINTENANCE OF TRAFFIC  
1ST AVENUE OVER I-290 (STAGE 2)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	8	25
CONTRACT NO. 62M78				
ILLINOIS FED. AID PROJECT				

**NOTE:**

ALL 10' LINE, 30' GAP LINES ON PCC SHALL BE PERFORMED PLASTIC PAVEMENT MARKING TYPE B, INLAID, CONTRAST, WITH GROOVING FOR RECESSED PAVEMENT MARKINGS. ALL OTHER PAVEMENT MARKING MATERIAL PLACED ON HMA PAVEMENT SHALL BE THERMOPLASTIC. ALL OTHER PAVEMENT MARKING MATERIAL PLACED ON PCC PAVEMENT SHALL BE MODIFIED URETHANE.



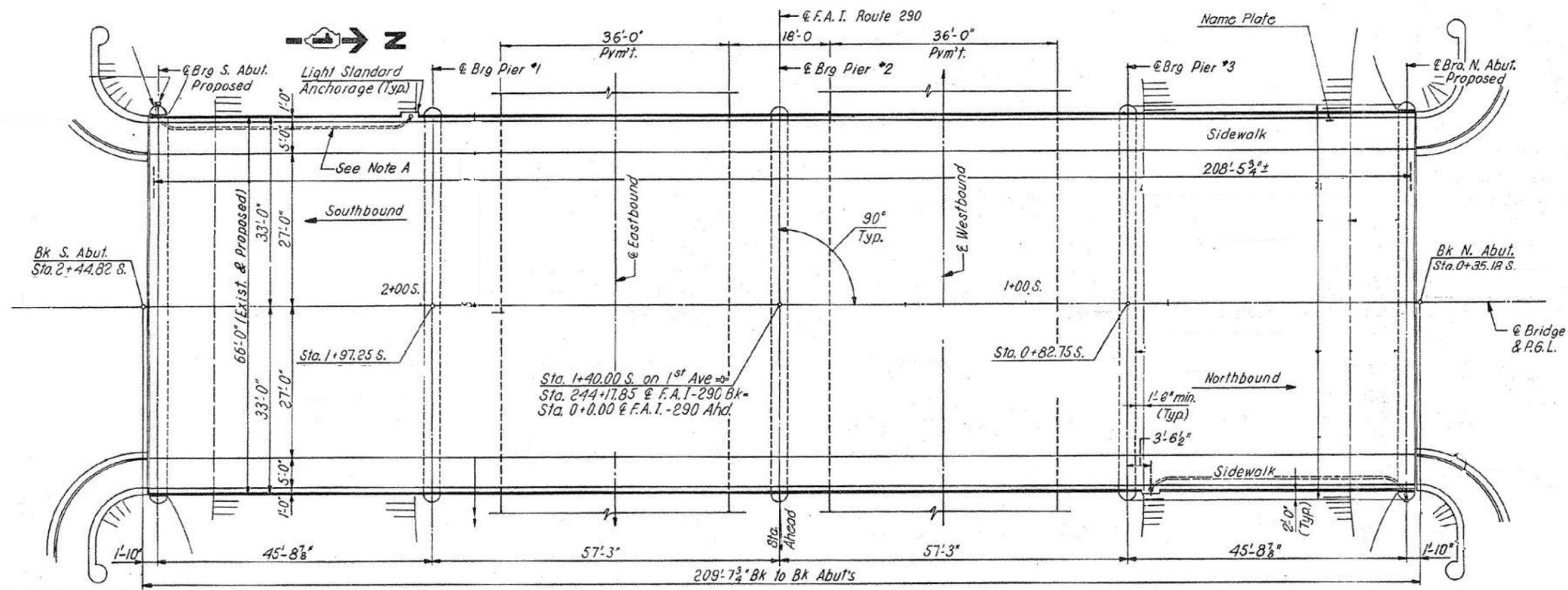
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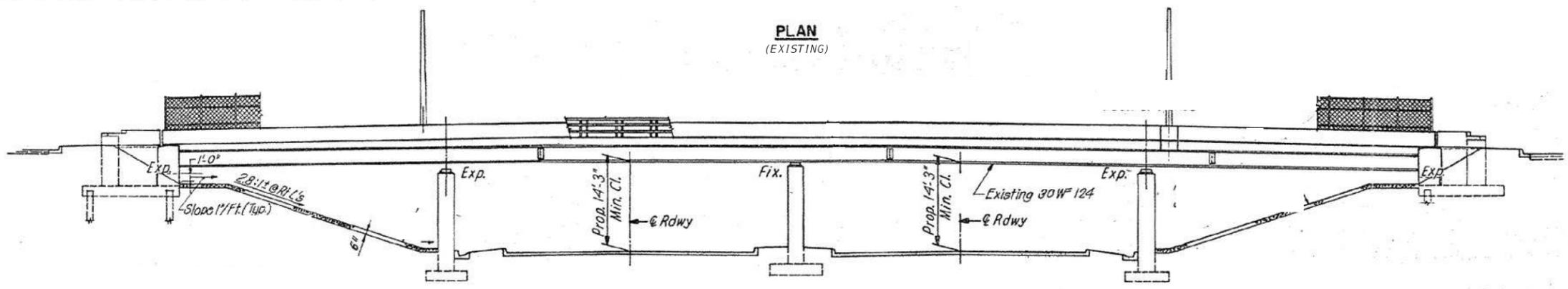
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLAN</b>			
<b>1ST AVENUE OVER I-290</b>			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

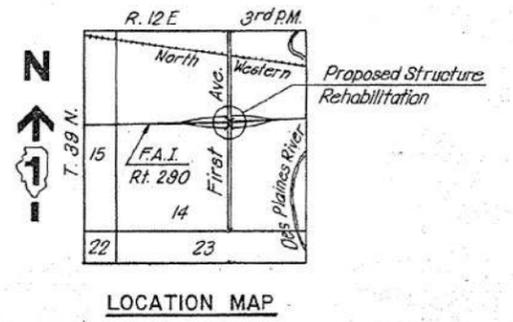
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372	2020-204-BR&BJR	COOK	22	9
CONTRACT NO. 62M78			ILLINOIS FED. AID PROJECT	



**PLAN**  
(EXISTING)



**ELEVATION**  
(EXISTING)



Expires 11-30-2020  
*David Carl Puzy*  
 9/30/2020

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

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 016-0699 (1ST AVE.)**

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	10	25
CONTRACT NO. 62M78			ILLINOIS FED. AID PROJECT	

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 PLOT SHEET: 1 OF 8

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts.  
Bolts 3/4-in. Ø, holes 13/16-in. Ø, unless otherwise noted.

All structural steel shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".

No field welding is permitted except as specified in the contract documents.

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.

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

The Structural Steel Removal quantity is shown for bidding purposes only and will not be measured for payment.

Concrete repairs shall receive final surface finish according to Article 420.09(e)(1). Cost included with the appropriate repair item.

**INDEX OF SHEETS**

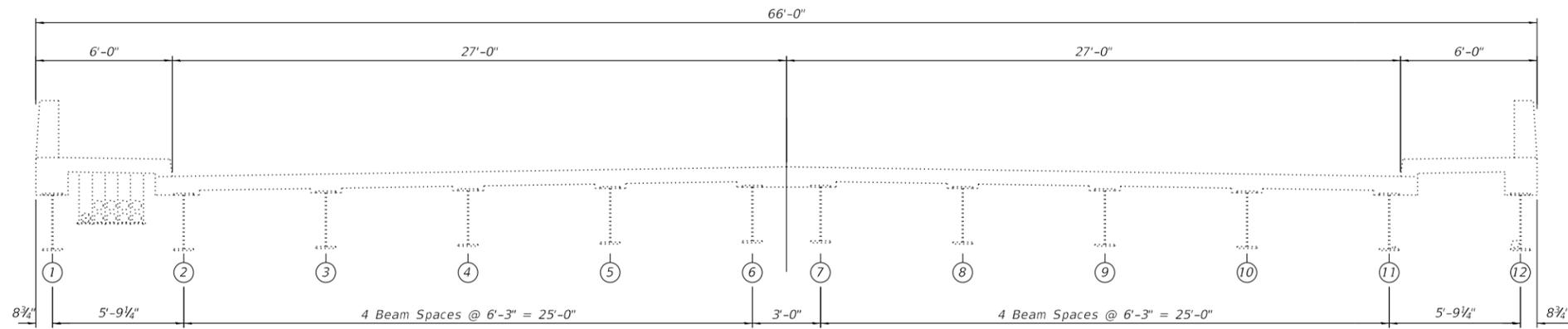
1. General Plan and Elevation
2. General Data
3. Deck & Joint Repair Details
4. Protective Shield Details
5. Expansion Joint Details
6. Structural Steel Repair Location Plan
7. Structural Steel Repair I
8. Structural Steel Repair II

**SCOPE OF WORK**

1. Expansion joint nosing repairs.
2. Expansion joints replacement.
3. Deck slab repairs.
4. Protective shield installation and removal.
5. Approach slab repairs.
6. Diaphragm removal and replacement at abutments.
7. Beam end repairs.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.66
Protective Shield	Sq. Yd.	68
Furnishing and Erecting Structural Steel	Pound	3,410
Preformed Joint Seal 1 1/2"	Foot	136
Approach Slab Repair (Partial Depth)	Sq. Yd.	12
Structural Steel Removal	Pound	3,210
Structural Steel Repair	Pound	2,820
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Deck Slab Repair (Partial)	Sq. Yd.	1
Polymer Concrete	Cu. Ft.	16.25
Concrete Superstructure	Cu. Yd.	2.16
Temporary Shoring and Cribbing	L. Sum	1
Cleaning Bridge Seats	Sq. Ft.	280



**EXISTING BRIDGE CROSS SECTION**  
Looking south

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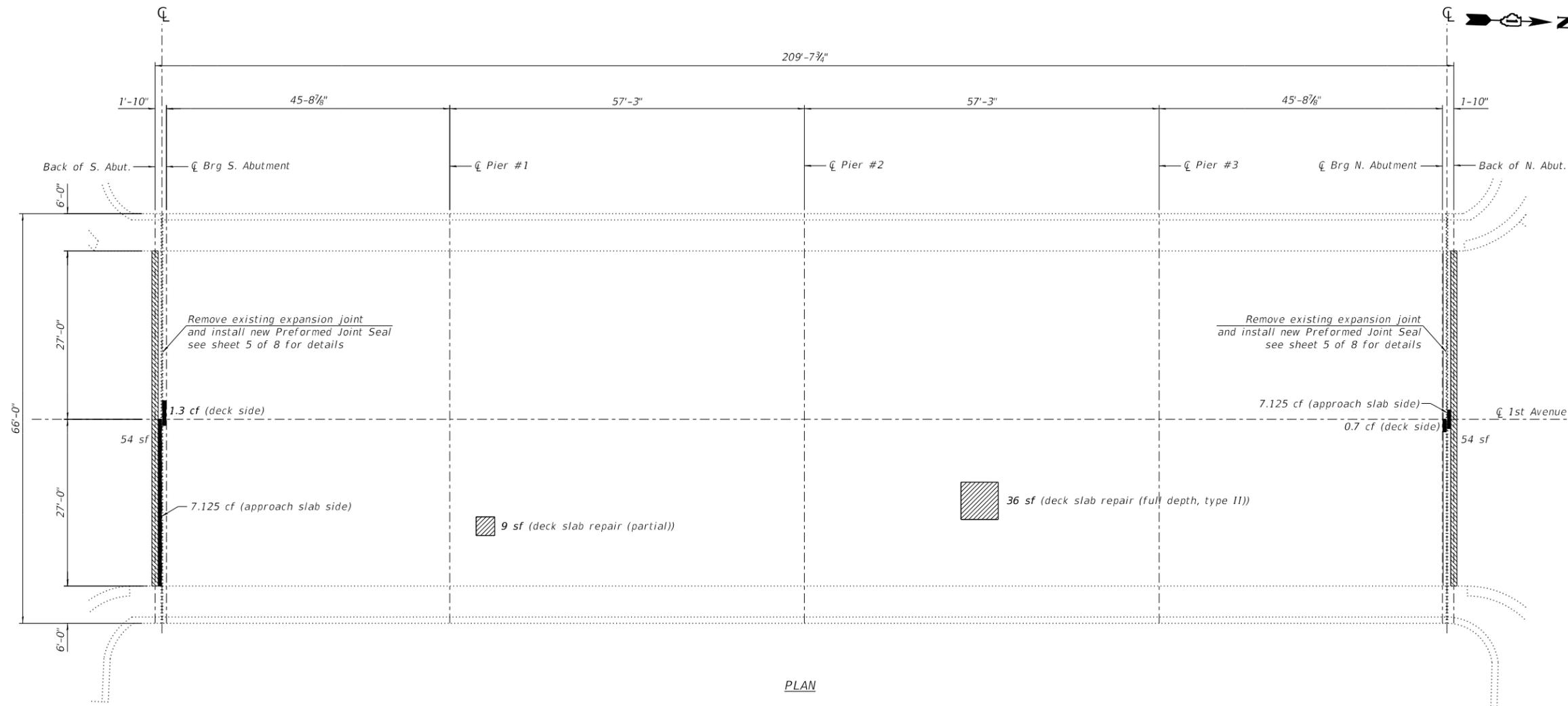
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 016-0699 (1ST AVE.)**

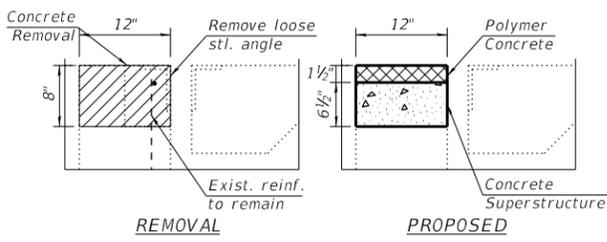
SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	11	25
CONTRACT NO. 62M78				
ILLINOIS		FED. AID PROJECT		



- LEGEND**
- Deck Slab Repair
  - Approach Slab Repair
  - Polymer Concrete

**Notes:**  
 Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.  
 Cost for steel angle removal is included with Concrete Removal.  
 Areas of deck repairs shown are estimated. Actual repair areas shall be determined in the field by the Engineer.  
 A nominal full depth deck repair quantity has been provided as a guide for bidding purposes. Actual full depth repair areas shall be determined in the field by the Engineer if needed.



TYPICAL JOINT SECTION AT POLYMER CONCRETE REPAIR

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.66
Approach Slab Repair (Partial Depth)	Sq. Yd.	12
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Deck Slab Repair (Partial)	Sq. Yd.	1
Concrete Superstructure	Cu. Yd.	2.16
Polymer Concrete	Cu. Ft.	16.25

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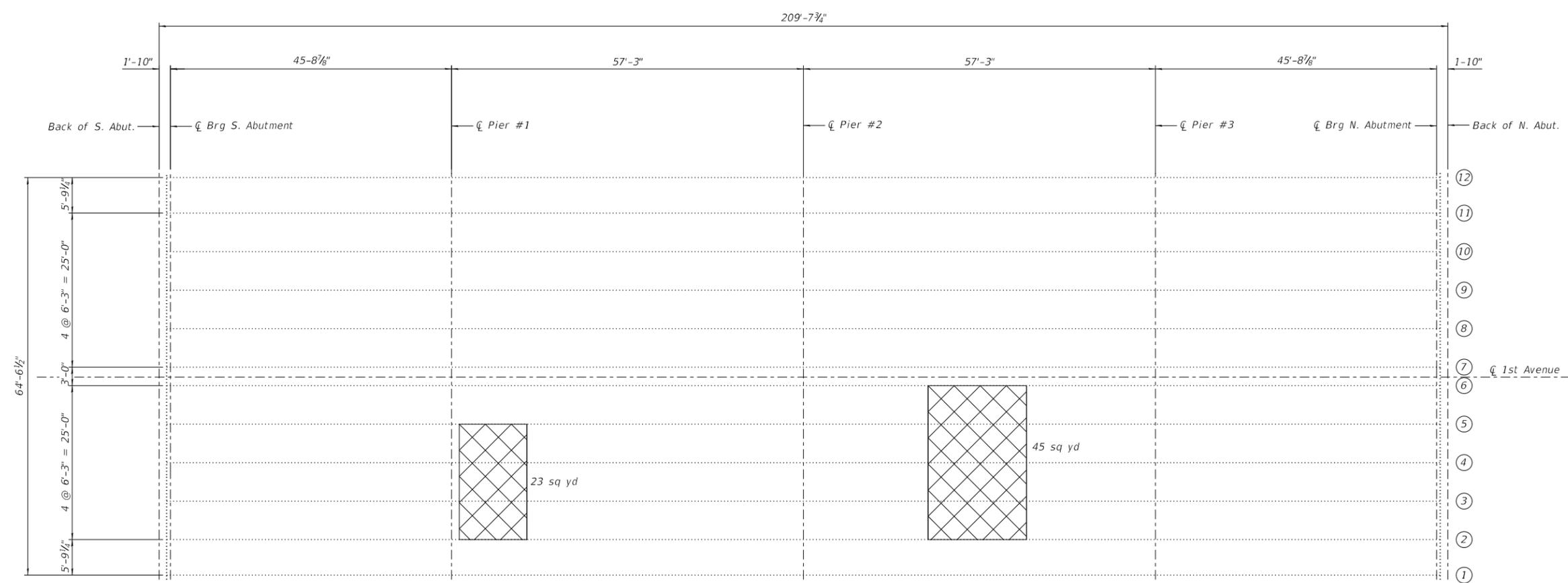
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DECK & JOINT REPAIR DETAILS  
 STRUCTURE NO. 016-0699 (1ST AVE.)**

SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	12	25
CONTRACT NO. 62M78				
ILLINOIS FED. AID PROJECT				



EXISTING FRAMING PLAN

- LEGEND**
- Protective Shield
  - Beam Number

BILL OF MATERIAL

Item	Unit	Total
Protective Shield	Sq. Yd.	68

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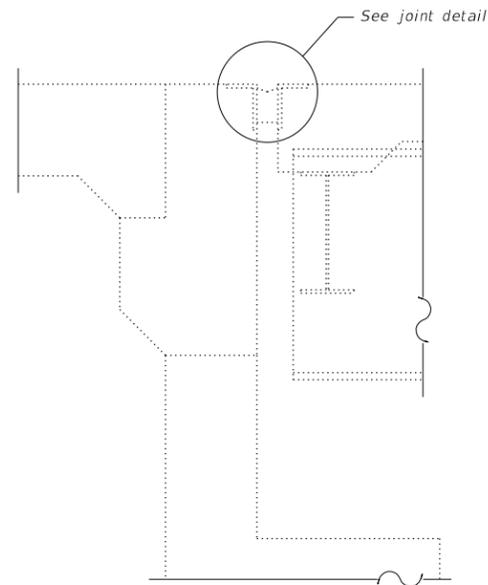
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

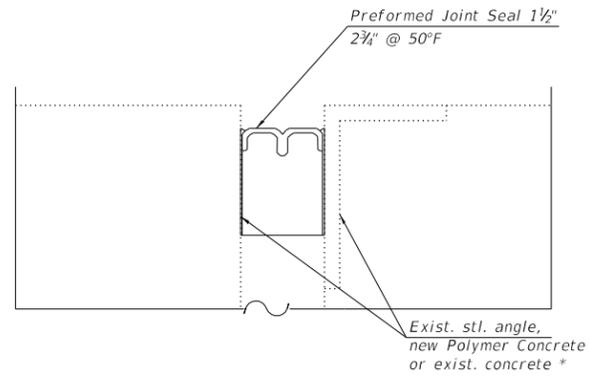
**PROTECTIVE SHIELD DETAILS**  
**STRUCTURE NO. 016-0699 (1ST AVE.)**

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	22	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M78	

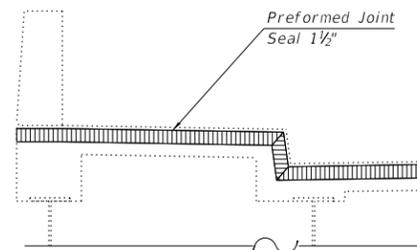


TYPICAL SECTION AT ABUTMENTS



JOINT DETAIL

\* Install Preformed Joint Seal against existing concrete at sidewalks.



TYPICAL SECTION THRU SIDEWALK

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Seal 1 1/2"	Foot	136

Notes:  
 Removal of the existing seal is included in the cost of Preformed Joint Seal.  
 See sheet 3 of 8 for Polymer Concrete repair locations.

MODEL: Default  
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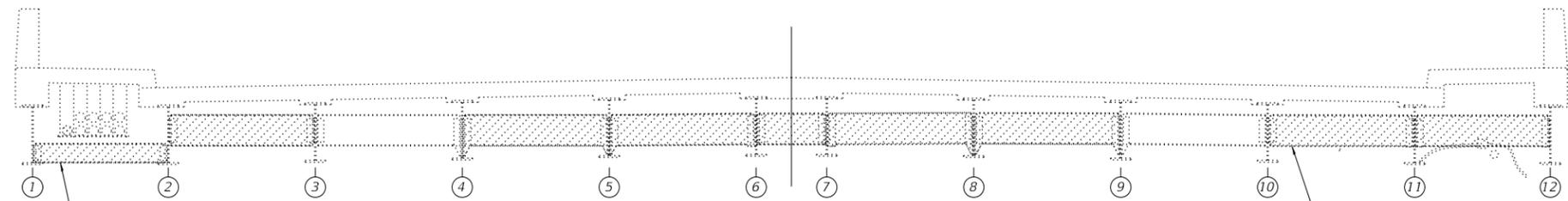
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS  
 STRUCTURE NO. 016-0699 (1ST AVE.)

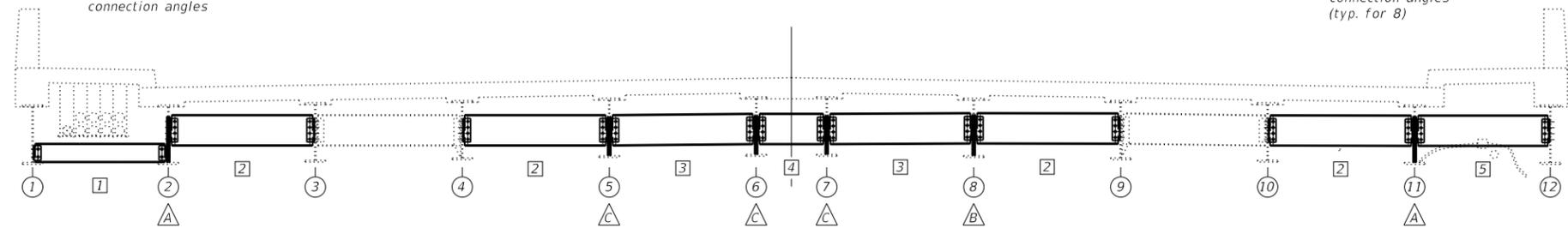
SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	14	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M78	

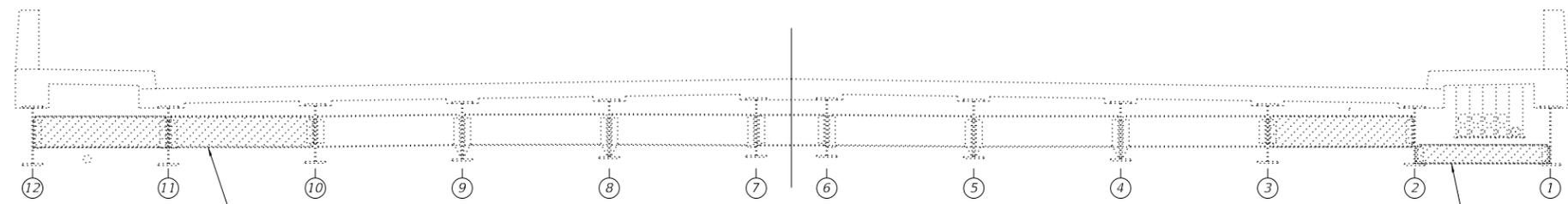




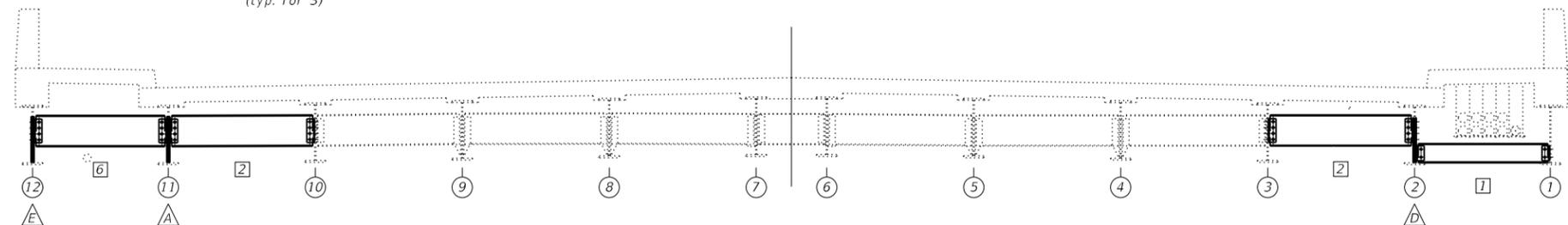
END DIAPHRAGM ELEVATION AT SOUTH ABUTMENT - EXISTING



END DIAPHRAGM ELEVATION AT SOUTH ABUTMENT - PROPOSED



END DIAPHRAGM ELEVATION AT NORTH ABUTMENT - EXISTING



END DIAPHRAGM ELEVATION AT NORTH ABUTMENT - PROPOSED

**LEGEND**

- ② Beam Number
- △ Beam End Repair Type
- Diaphragm Type

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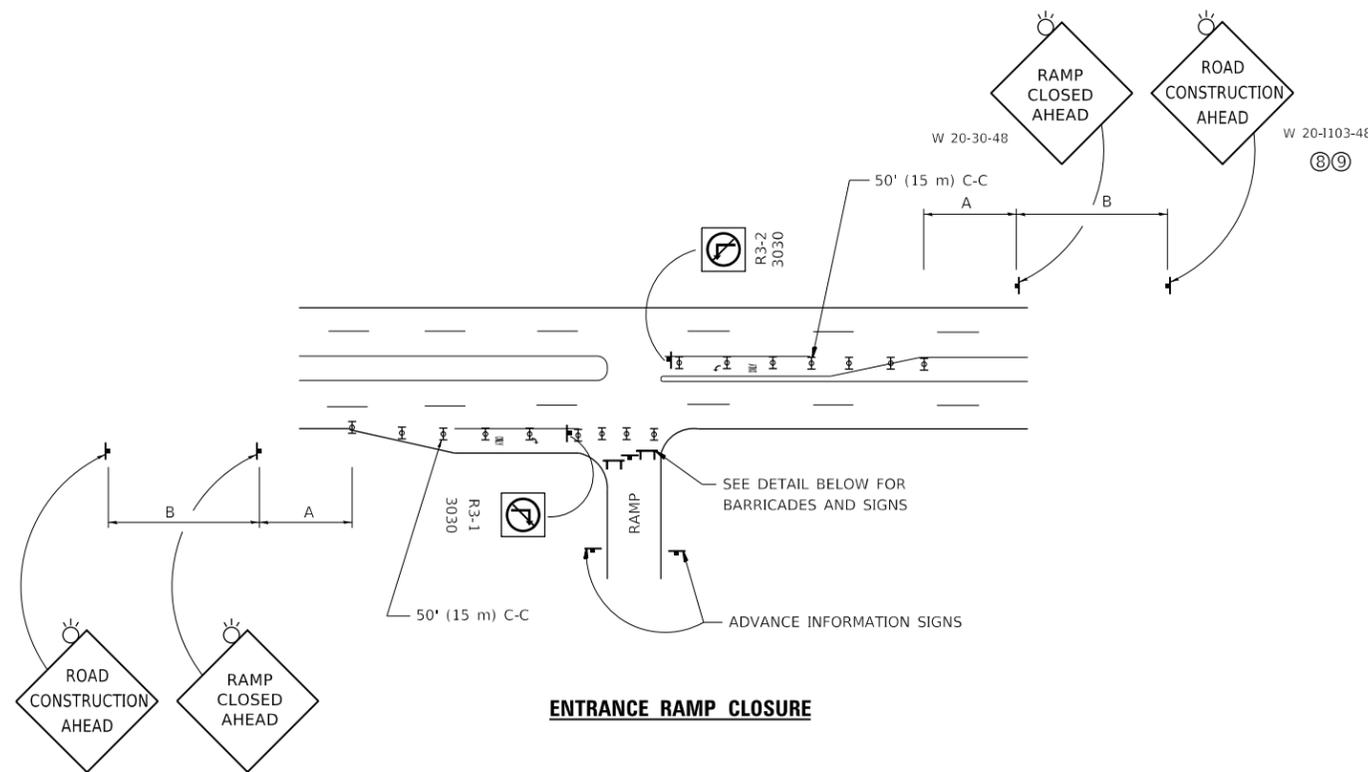
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL REPAIRS I  
 STRUCTURE NO. 016-0699 (1ST AVE.)**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	22	16
CONTRACT NO. 62M78				
ILLINOIS		FED. AID PROJECT		





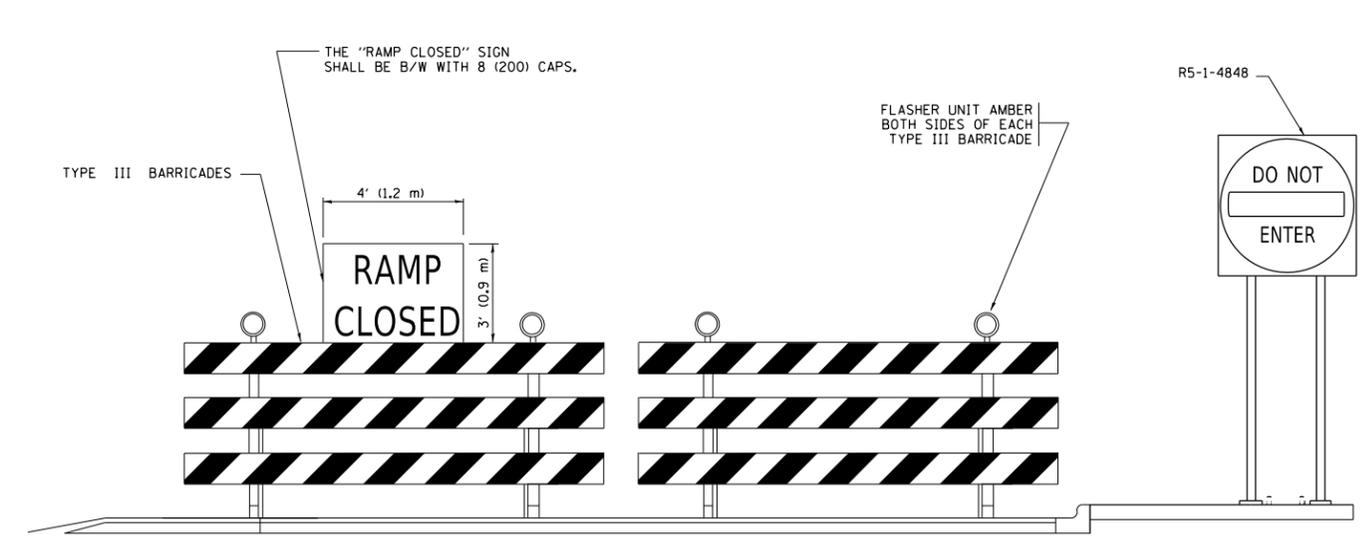
**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

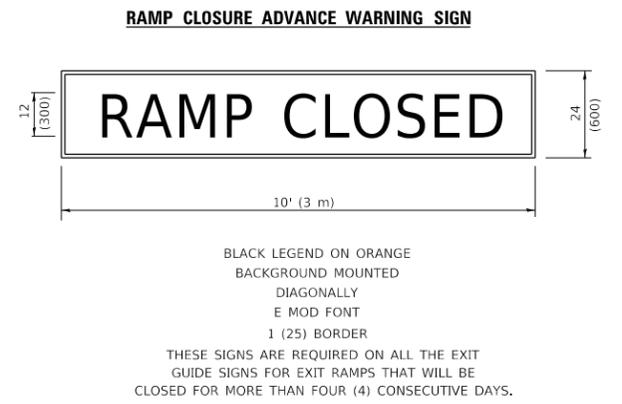
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-1103-48  
W 20-30-48  
⑧⑨

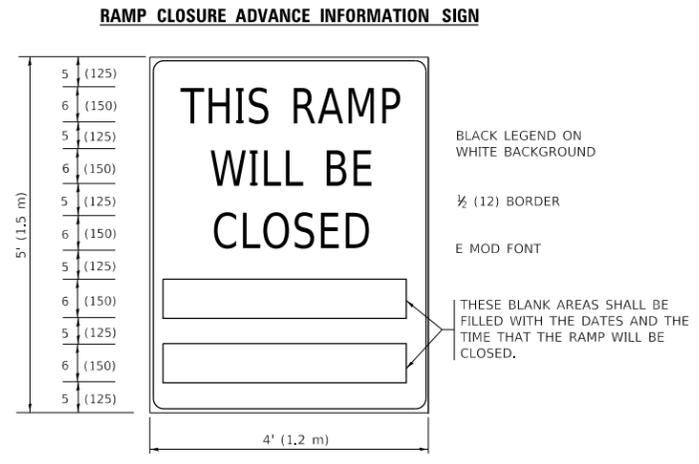


**DETAIL FOR REQUIRED BARRICADES & SIGNS**



**RAMP CLOSURE ADVANCE WARNING SIGN**

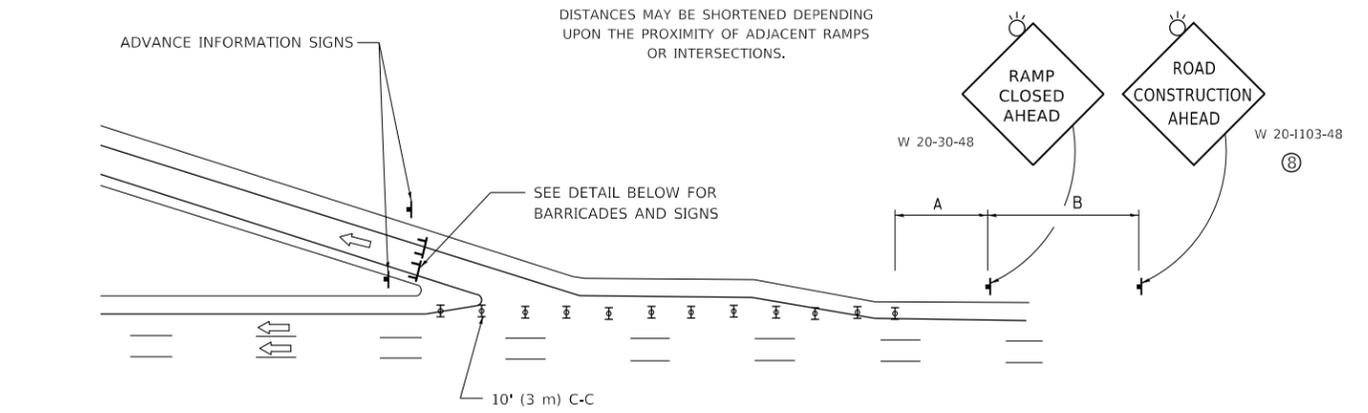
BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER  
 THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



**RAMP CLOSURE ADVANCE INFORMATION SIGN**

BLACK LEGEND ON WHITE BACKGROUND  
 1/2 (12) BORDER  
 E MOD FONT  
 THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.  
 THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION



**EXIT RAMP CLOSURE**

**SYMBOLS**

- ☐ TYPE II BARRICADE OR DRUM
- ☐ TYPE III BARRICADE WITH 2 FLASHING LIGHTS

**GENERAL NOTES:**

- 1 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2 VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 7 THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- 8 ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- 9 ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

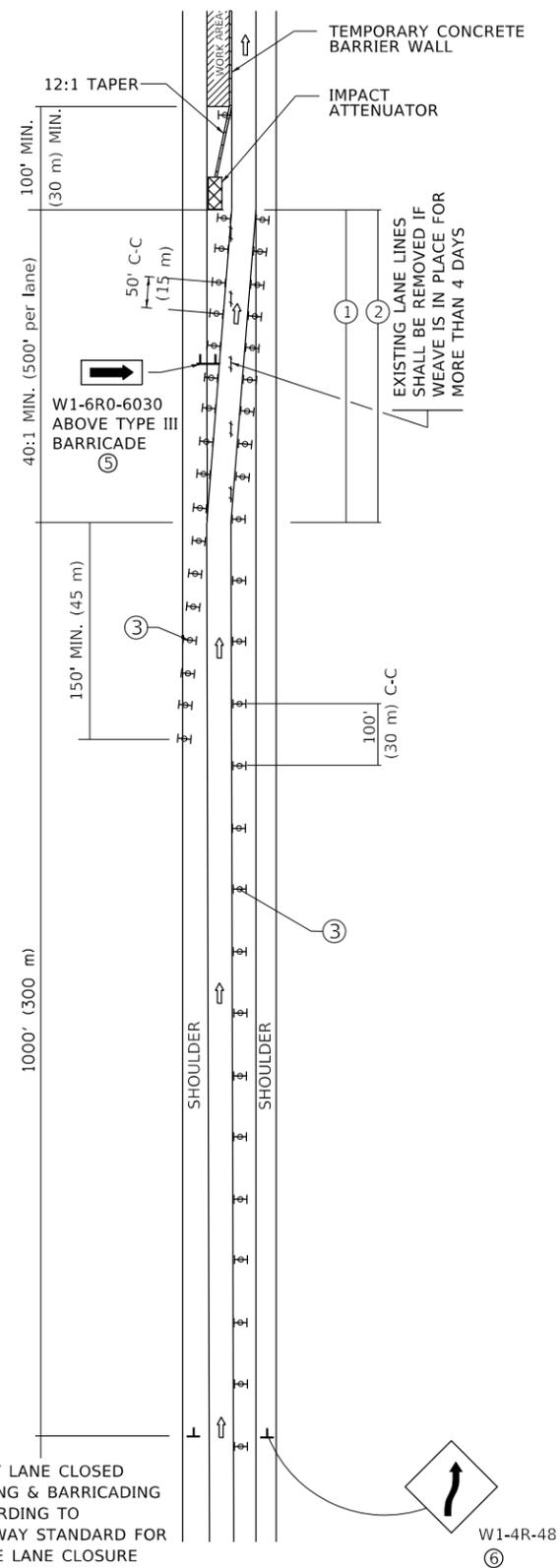
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PLOT DATE = 9/22/2020	CHECKED -	REVISED - M.D._06-13
	DATE - 02-83	REVISED - M.D._01-18

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	18	25
<b>TC-08</b>			CONTRACT NO. 62M78	
ILLINOIS FED. AID PROJECT				

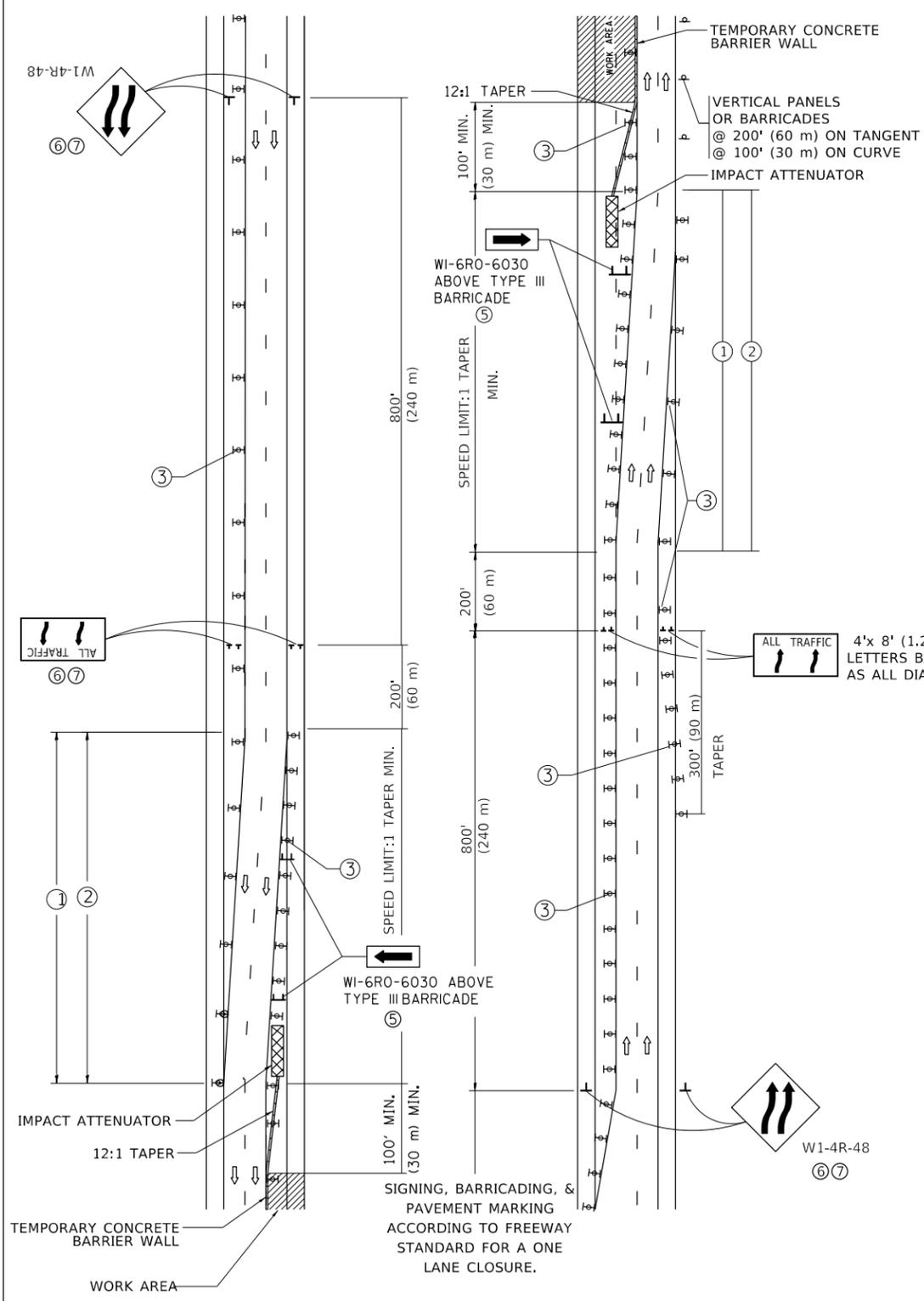
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# SINGLE LANE WEAVE



RIGHT LANE CLOSED  
SIGNING & BARRICADING  
ACCORDING TO  
FREEWAY STANDARD FOR  
A ONE LANE CLOSURE

# MULTI-LANE WEAVE



### GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN

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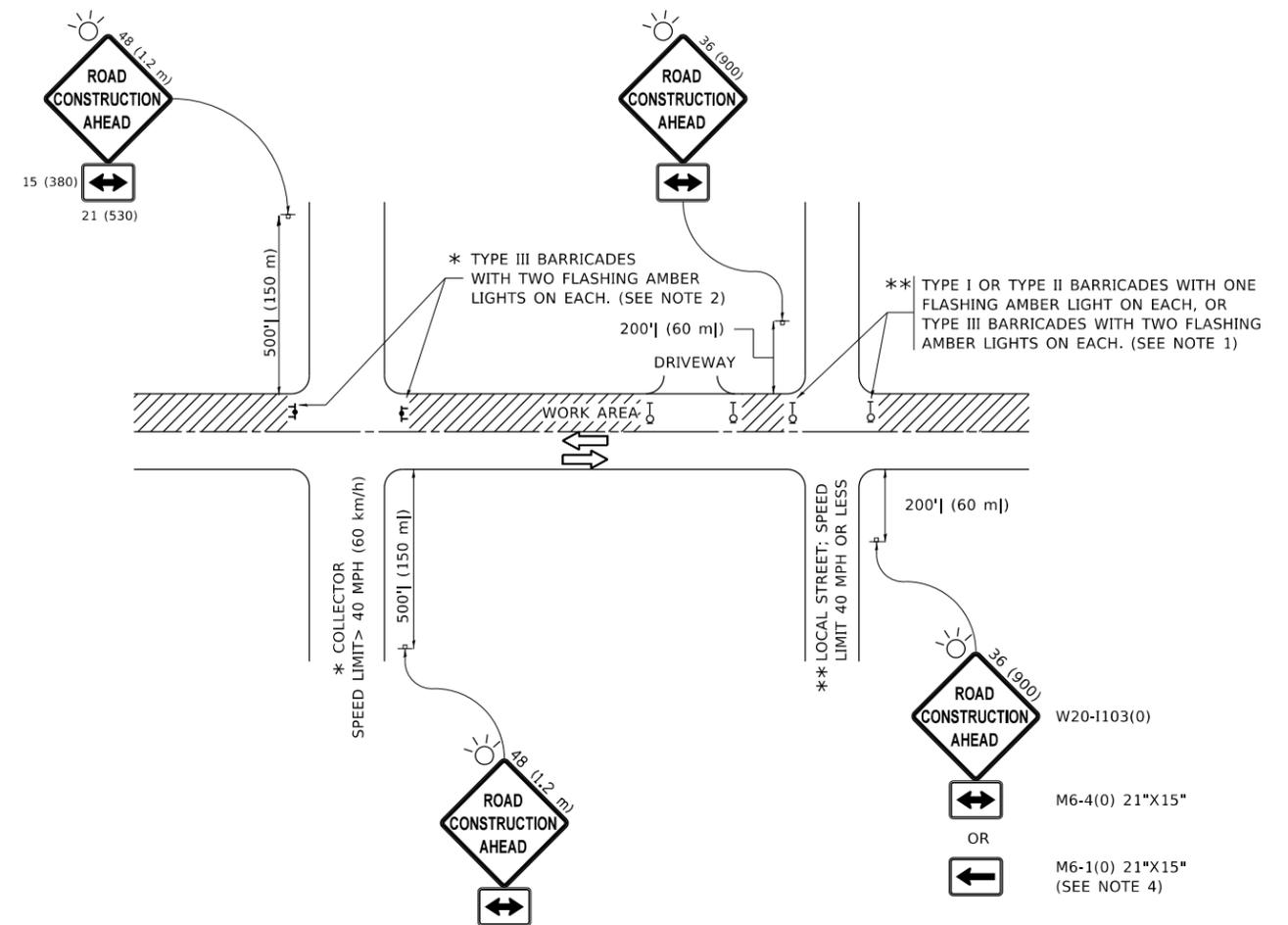
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PLOT DATE = 9/22/2020	DATE - 02-87	REVISED - M.D. 06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	19	25
TC-09		CONTRACT NO. 62M78		
ILLINOIS FED. AID PROJECT				



**NOTES:**

- 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:
  - 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.
  - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - 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.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 9/22/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

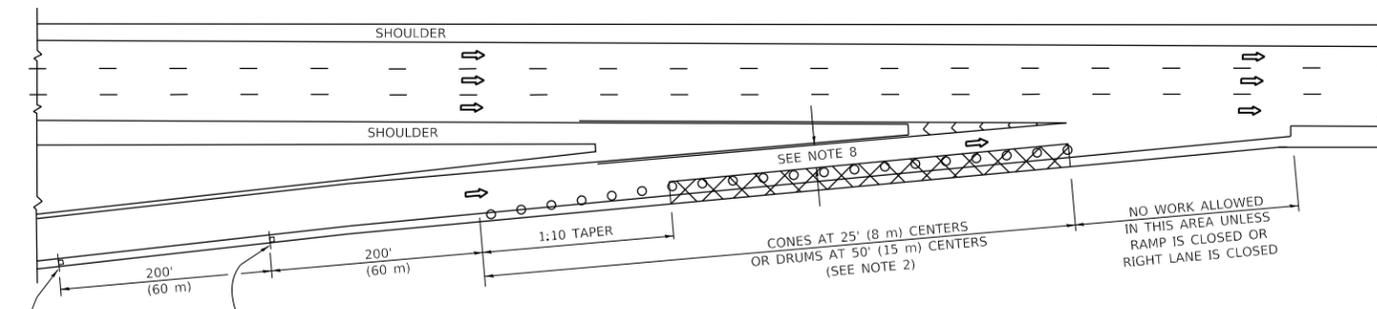
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372	2020-204-BR&BJR	COOK	20	25
<b>TC-10</b>			CONTRACT NO. 62M78	
ILLINOIS FED. AID PROJECT				



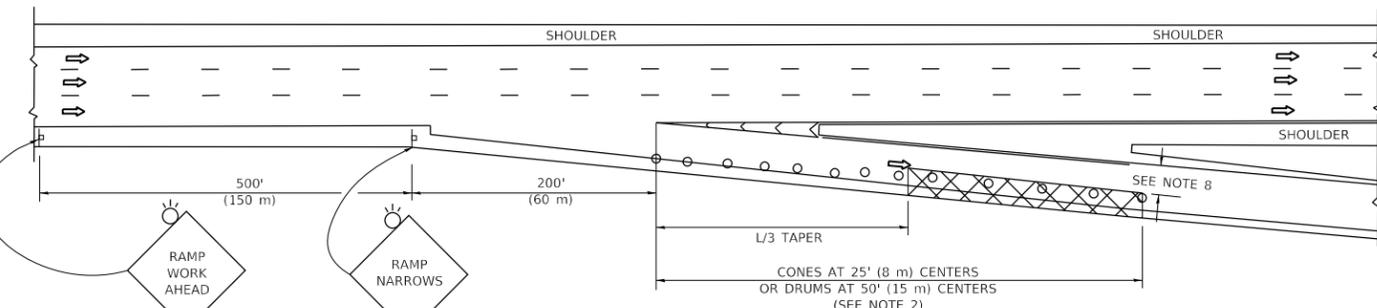




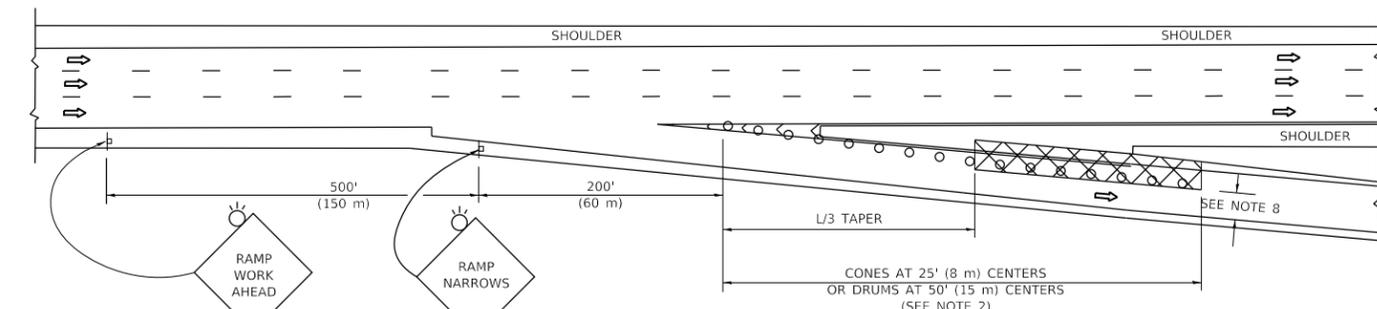
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

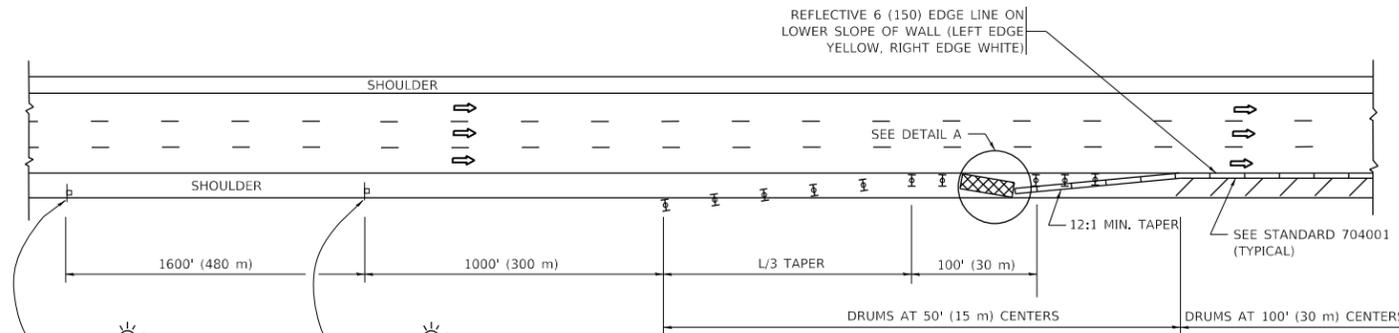
**GENERAL NOTES:**

- THE "L" DISTANCE EQUALS:  

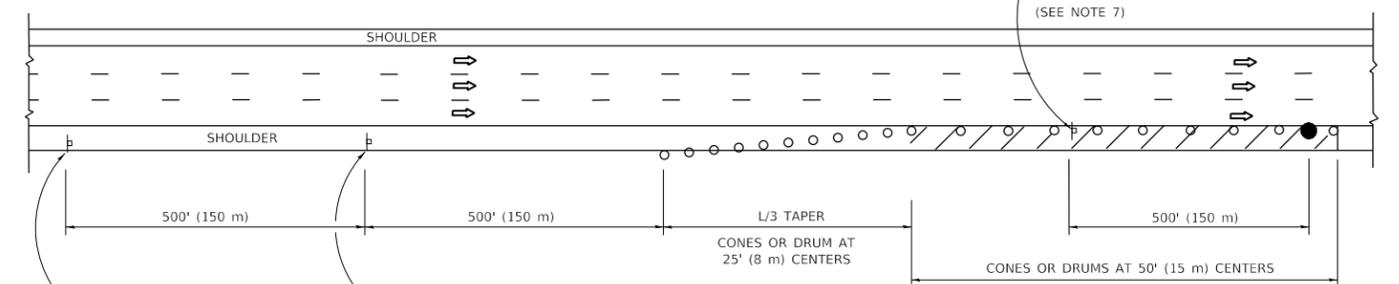
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L = 0.65(W)(S)$ $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)  
 S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

**SHOULDER CLOSURE DETAILS**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)**

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

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

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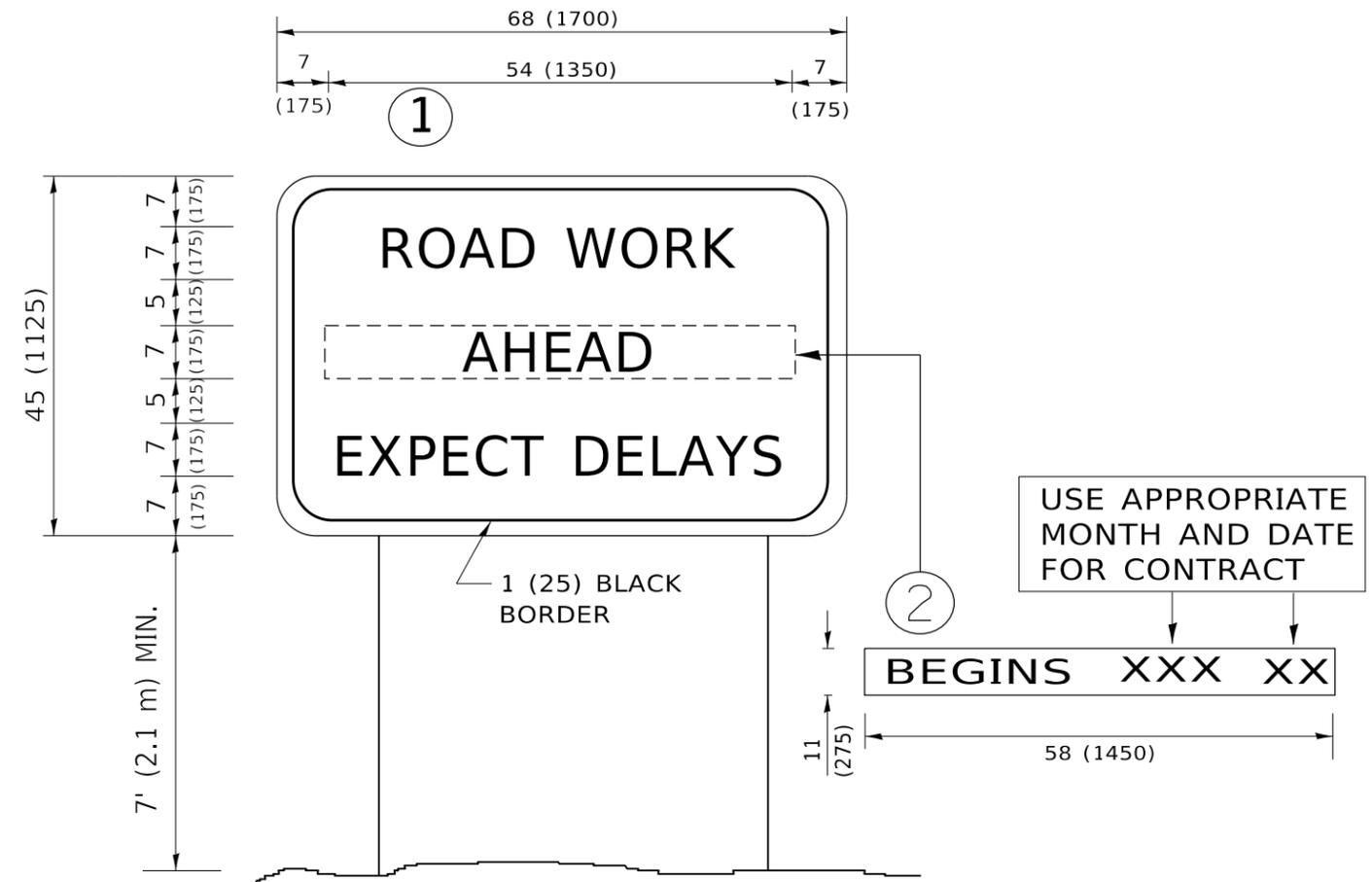
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	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
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PLOT DATE = 9/22/2020	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY  
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	24	25
<b>TC-17</b>		CONTRACT NO. 62M78		
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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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0010 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 9/22/2020	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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2020-204-BR&BJR	COOK	25	25
<b>TC-22</b>			CONTRACT NO. 62M78	
ILLINOIS FED. AID PROJECT				