

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	1
		ILLINOIS	CONTRACT NO. 62U63	


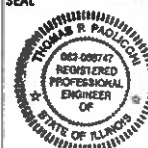


FOR INDEX OF SHEETS, SEE SHEET NO. 2

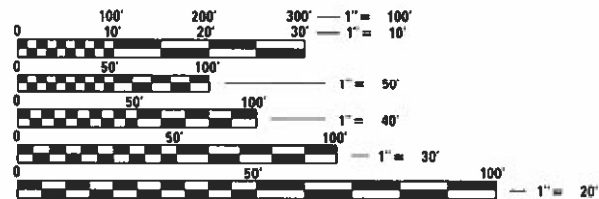
PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55: I-55 EB RAMP TO CHINA TOWN
SECTION: FAI 55 22 DECK OVERLAY
PROJECT: NHPP- 2IMU(385)
BRIDGE REPAIR AND DECK OVERLAY
COOK COUNTY

PROJECT LOCATED IN
THE CITY OF CHICAGO

LOCATION OF
IMPROVEMENT
SN 016-1056

	SEAL
Thomas P. Paolicchi, P.E. Lic. No. 062.056747 Expires: 11/30/2023 ABNA ENGINEERING (SHTS 2-8, 21-29)	
	SEAL
Stephen E. Alsbury, S.E. Lic. No. 081.5261 Expires: 11/30/2024 ABNA ENGINEERING (SHTS 9-20)	



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

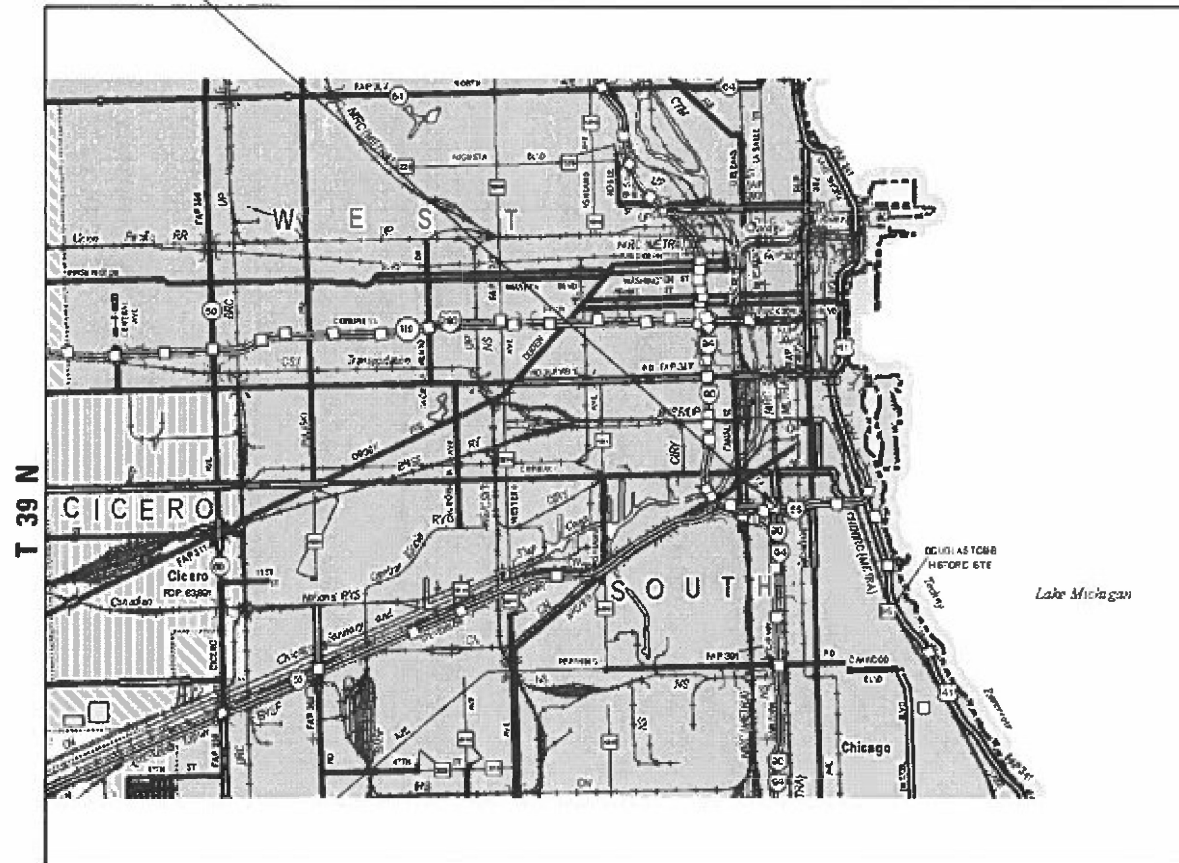
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: PRAVEEN KAINI, PE 847-705-4237
PROJECT MANAGER: J. ALAIN MIDY, PE 847-221-3056

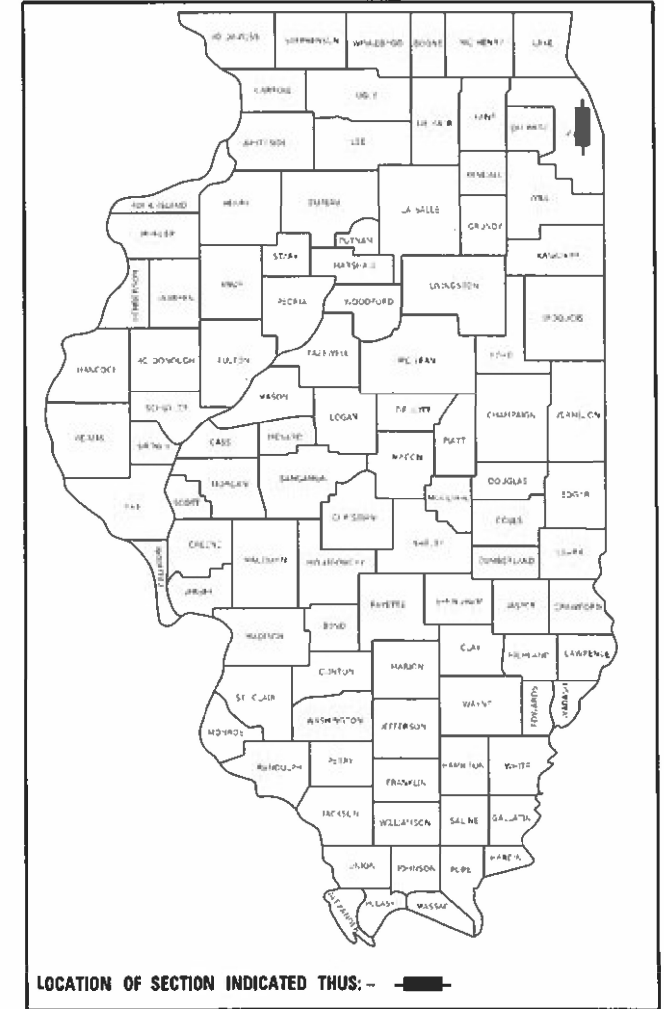
CONTRACT NO. 62U63

C-91-091-23

R 14 E

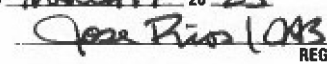


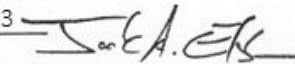
D-91-064-23




STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 17, 2023

 REGIONAL ENGINEER

May 12, 2023 

ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GROSS LENGTH = 1565 FT. = 0.296 MILE
NET LENGTH = 1565 FT. = 0.296 MILE

INDEX OF SHEETS

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28	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
29	ARTERIAL ROAD INFORMATION SIGN (TC-22) (NOT USED)

HIGHWAY STANDARDS

420001-10	PAVEMENT JOINTS
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	MULTI-LANE TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMP
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPER FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPER FOR SPEEDS ≤ 40 MPH
701428-01	TRAFFIC CONTROL SETUP & REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL
2. CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
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. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
5. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
6. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, IDOT'S AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
7. COORDINATION WITH THE CTA IS REQUIRED TO PERFORM THE JOINT REPAIR AT PIER EN11. CTA ADJACENT CONSTRUCTION PROJECT MANAGER IS THE CONTACT PERSON.
8. SHOULD THE CONTRACTOR FAIL TO COMPLETELY OPEN AND KEEP OPEN ALL THE TRAFFIC LANES TO TRAFFIC IN ACCORDANCE WITH THE LIMITATIONS SPECIFIED UNDER THE SPECIAL PROVISIONS FOR "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC", THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR THE AMOUNT OF:
ONE LANE OR RAMP BLOCKED = \$2,500
TWO LANES BLOCKED = \$5,000

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
STRUCTURE NO. 016-1056**

SCALE NONE SHEET 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	2
CONTRACT NO. 62U63				
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED
				10% STATE
				BRIDGE
				0047
				016-1056
				URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	363	363
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	230	230
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	80	80
42001300	PROTECTIVE COAT	SQ YD	5505	5505
50102400	CONCRETE REMOVAL	CU YD	26.1	26.1
50157300	PROTECTIVE SHIELD	SQ YD	2128	2128
50300255	CONCRETE SUPERSTRUCTURE	CU YD	29.3	29.3
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3820	3820
52000110	PREFORMED JOINT STRIP SEAL	FOOT	140	140
52318802	DRAINAGE SYSTEM FOR STRUCTURES	L SUM	1	1
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3128	3128
* X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2653	2653

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED
				10% STATE
				BRIDGE
				0047
				016-1056
				URBAN
* X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
* X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
* Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	4252	4252
* Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	4252	4252
* Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	120	120
* Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	7	7
* Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	3647	3647
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
* Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

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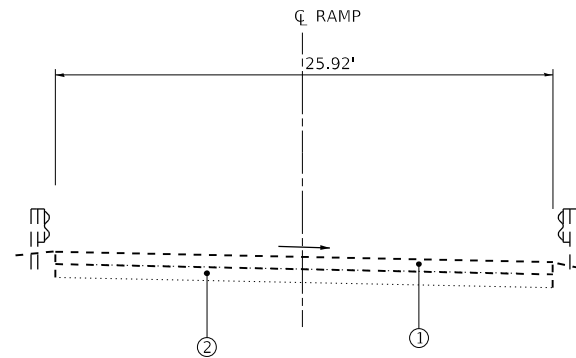
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

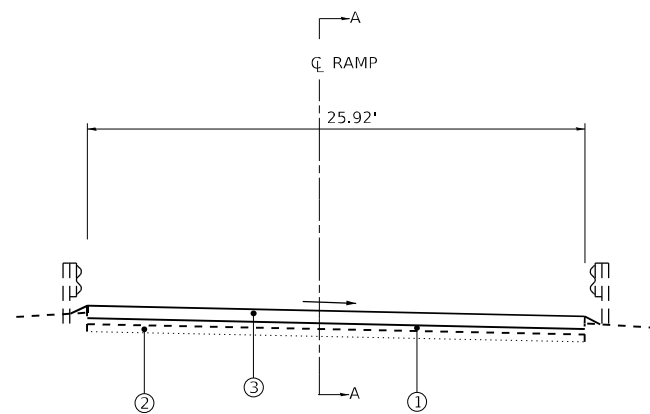
**SUMMARY OF QUANTITIES
STRUCTURE NO. 016-1056**

SCALE NONE SHEET 1 OF 1 SHEETS

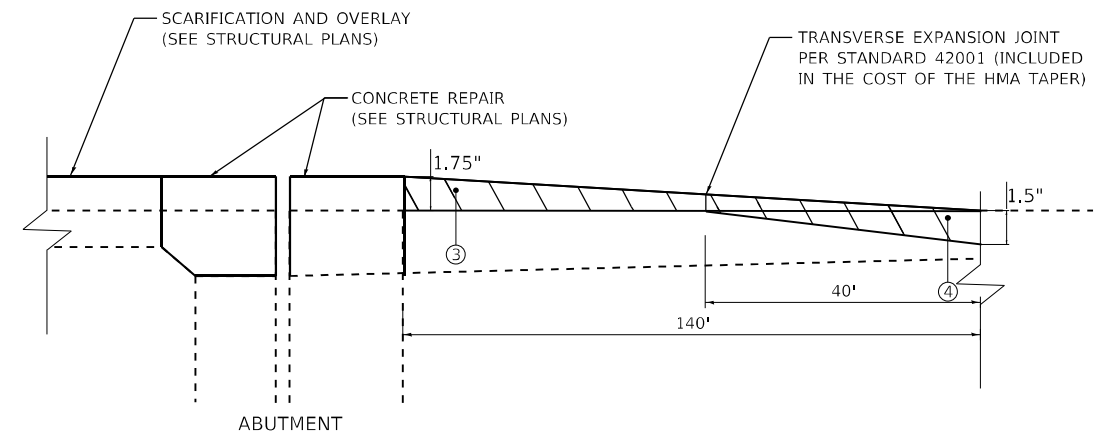
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	3
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				



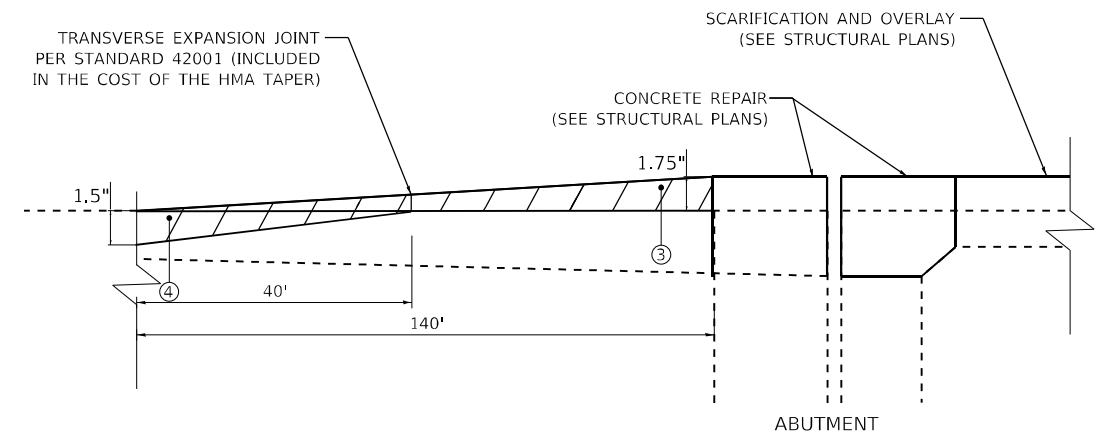
EXISTING TYPICAL SECTION - I-55 NB RAMP TO CERMAK RD
AT APPROACHES (WEST AND NORTH)



PROPOSED TYPICAL SECTION - I-55 NB RAMP TO CERMAK RD
AT APPROACHES (WEST AND NORTH)



WEST APPROACH SLAB SECTION A-A



NORTH APPROACH SLAB SECTION A-A

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS (%) AT N DES	QUALITY MANAGEMENT PROGRAM (QMP)
HMA APPROACH PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; VARIABLE DEPTH	4.0% AT 70 GYR.	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

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

LEGEND

- ① EXISTING HMA PAVEMENT
- ② EXISTING AGGREGATE BASE COURSE
- ③ PROPOSED HMA SC IL-9.5 MIX D N70
- ④ BUTT JOINT

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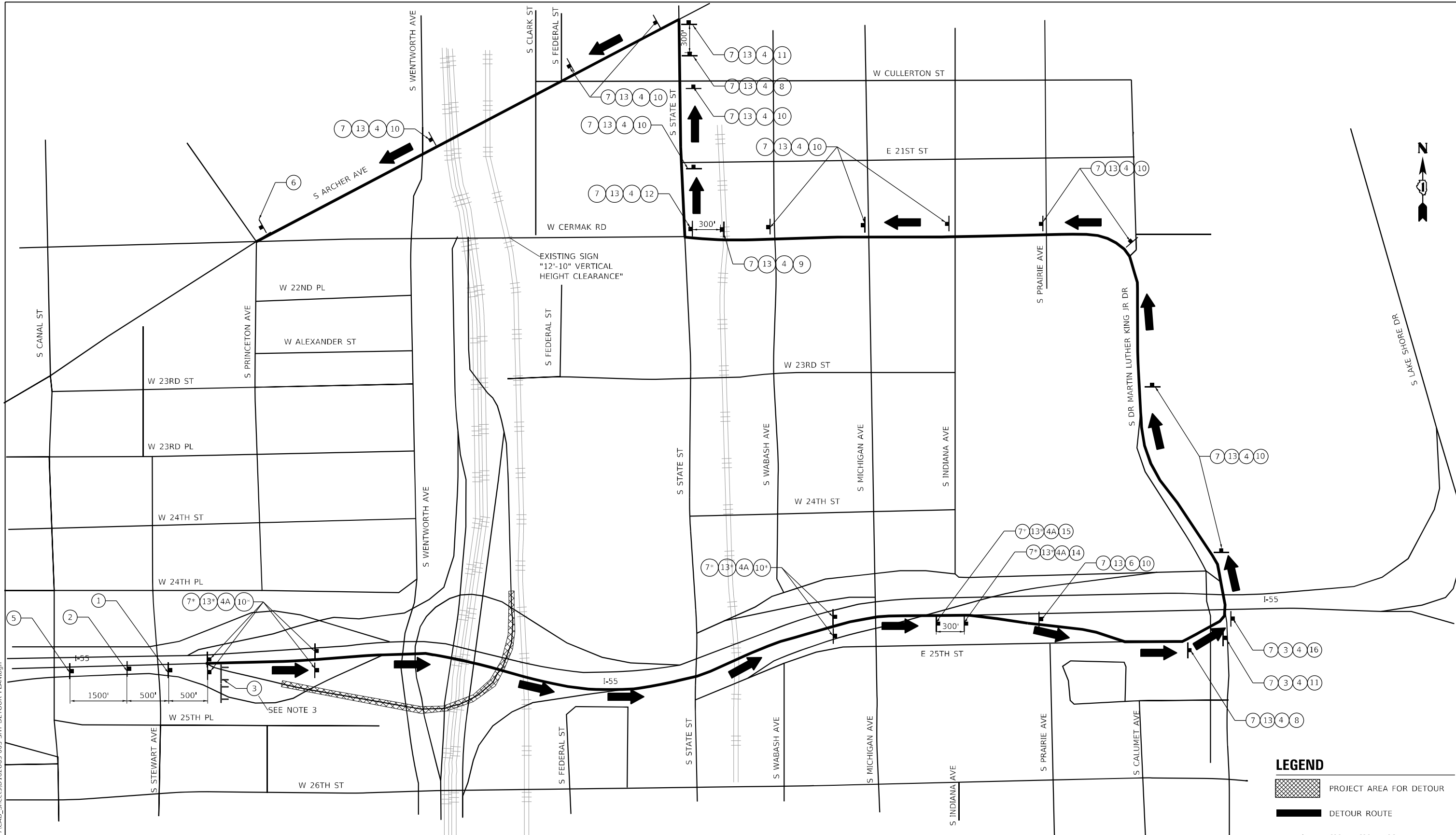
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 016-1056

SCALE NONE SHEET 1 OF 1 SHEETS






F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	4
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				



EXISTING SIGN
"12'-10" VERTICAL
HEIGHT CLEARANCE"

SEE NOTE 3

LEGEND

-  PROJECT AREA FOR DETOUR
-  DETOUR ROUTE
-  SIGN / SIGN ASSEMBLY ON POST
-  TYPE III BARRICADE WITH TWO AMBER FLASHING LIGHTS
-  DIRECTION OF DETOUR TRAFFIC

- NOTES**
- REFER TO IDOT DISTRICT 1 STANDARDS TC-08 AND TC-21 FOR MORE INFORMATION.
 - CMS TO NOTIFY MOTORISTS OF RAMP CLOSURE.
 - CLOSE RAMP PER IDOT DISTRICT1 STANDARD TC-08.

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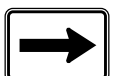




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DETOUR ROUTE
STRUCTURE NO. 016-1056**

SCALE NONE SHEET 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	5
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				

SIGN LEGEND

<p>①  W20-2(0) 4848</p> <p>②  W20-3(0) 4848</p> <p>③  R11-2 4830 (B/W)</p> <p>④  SPECIAL SIGN 3618 4" BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND</p> <p>④A  SPECIAL SIGN 3618 5" BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND</p>	<p>⑤  W20-1103 4848</p> <p>⑥  M4-8A(0) 2418</p> <p>⑦  M4-8(0) 2412 * M4-8(0) 3618</p> <p>⑧  M5-1L(0) 2115</p> <p>⑨  M5-1R(0) 2115</p> <p>⑩  M6-3(0) 2115 * M6-3(0) 3021</p>	<p>⑪  M6-1L(0) 2115</p> <p>⑫  M6-1R(0) 2115</p> <p>⑬  M3-2(0) 2412 * M3-2(0) 3618</p> <p>⑭  M6-2R(0) 3021</p> <p>⑮  M5-2R(0) 3021</p> <p>⑯  M6-2L(0) 2115</p>
--	---	---

* USE LARGER SIGN SIZES ON I-55.

CERMAK RD
CHINATOWN

SPECIAL SIGN 4" BLACK
LETTERING ON
FLUORESCENT
ORANGE
BACKGROUND

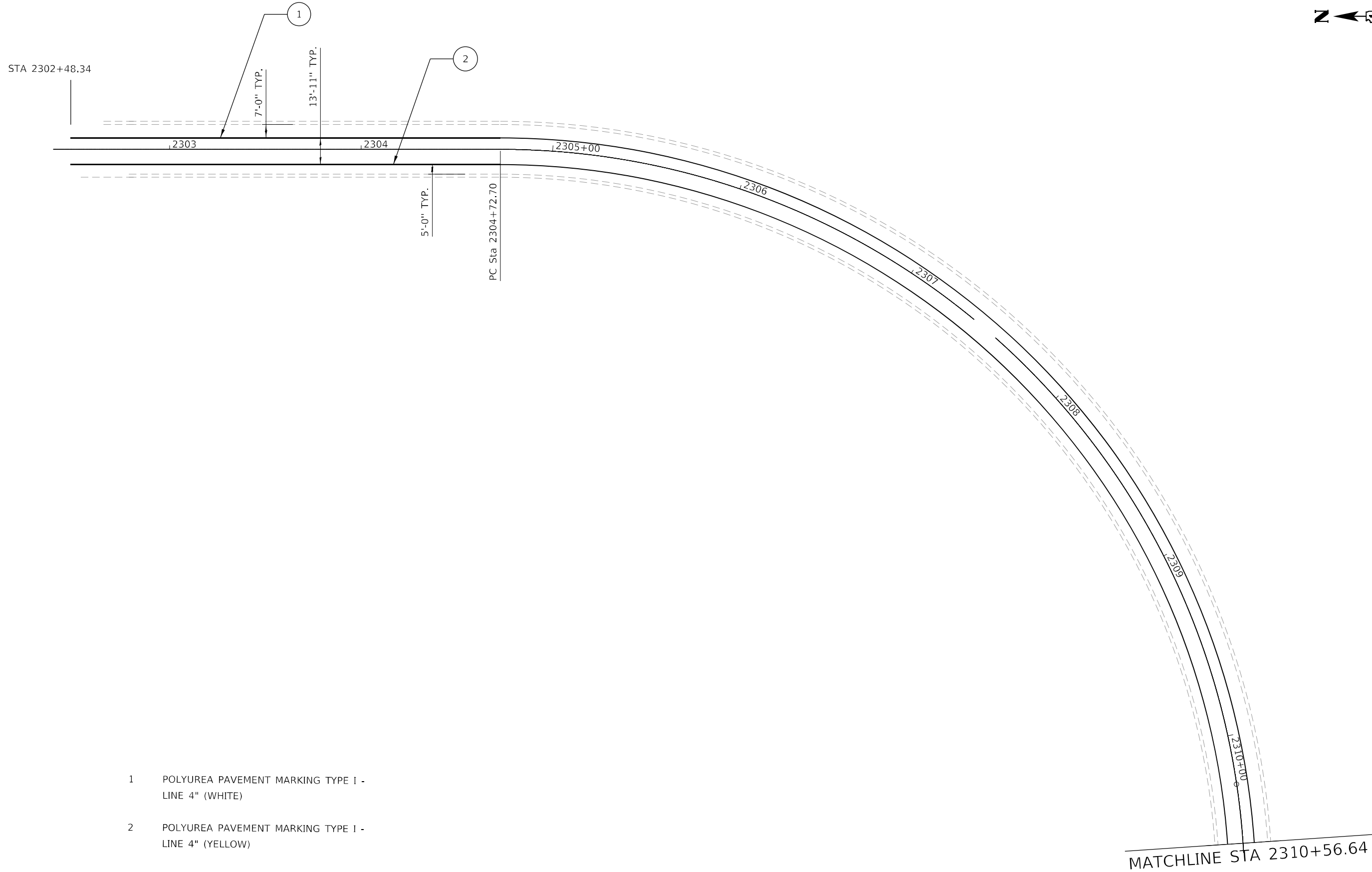
NOTES:

1. USE BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND UNLESS NOTED.
2. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION FOR INSTALLATION OF "RAMP CLOSURE ADVANCE INFORMATION SIGN". ONE SIGN ASSEMBLY EQUALS 20.0 SQ FT.
3. EACH SIGN ASSEMBLY SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING". REFER TO IDOT DISTRICT 1 STANDARD TC-08 FOR SIGN DETAIL.
4. THE CONTRACTOR SHALL NOTIFY THE CHICAGO DEPARTMENT OF TRANSPORTATION ONE MONTH PRIOR TO THE RAMP CLOSURE.

NOTES (CONT'D):

5. SIGNS FOR THE DETOUR ARE INCLUDED IN THE CONTRACT LUMP SUM COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
6. SIGN PLACEMENT SHALL BE DONE ACCORDING TO DISTRICT STANDARD TC-21.
7. ALL TRAFFIC SIGNS SHALL MEET WITH THE APPROVAL OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER, AND DURATION.
8. FOR TYPICAL SIGN INSTALLATION - SEE HIGHWAY STANDARD 701901.
9. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.

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- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE)
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

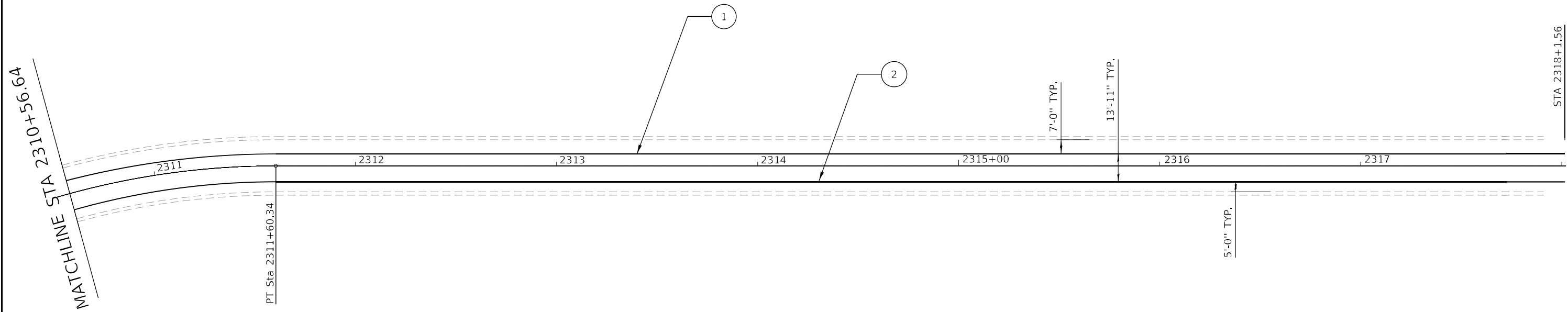
**PAVEMENT MARKING PLAN
STRUCTURE NO. 016-1056**

SCALE 1" = 50'

SHEET 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	7
CONTRACT NO. 62U63				

ILLINOIS FED. AID PROJECT



- 1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE)
- 2 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW)

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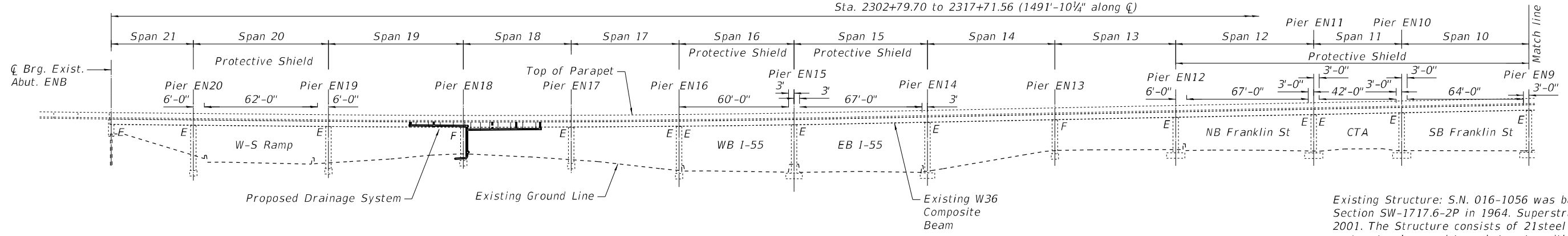
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
STRUCTURE NO. 016-1056**

SCALE 1" = 50' SHEET 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	8
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				

Sta. 2302+79.70 to 2317+71.56 (1491'-10 1/4" along C)

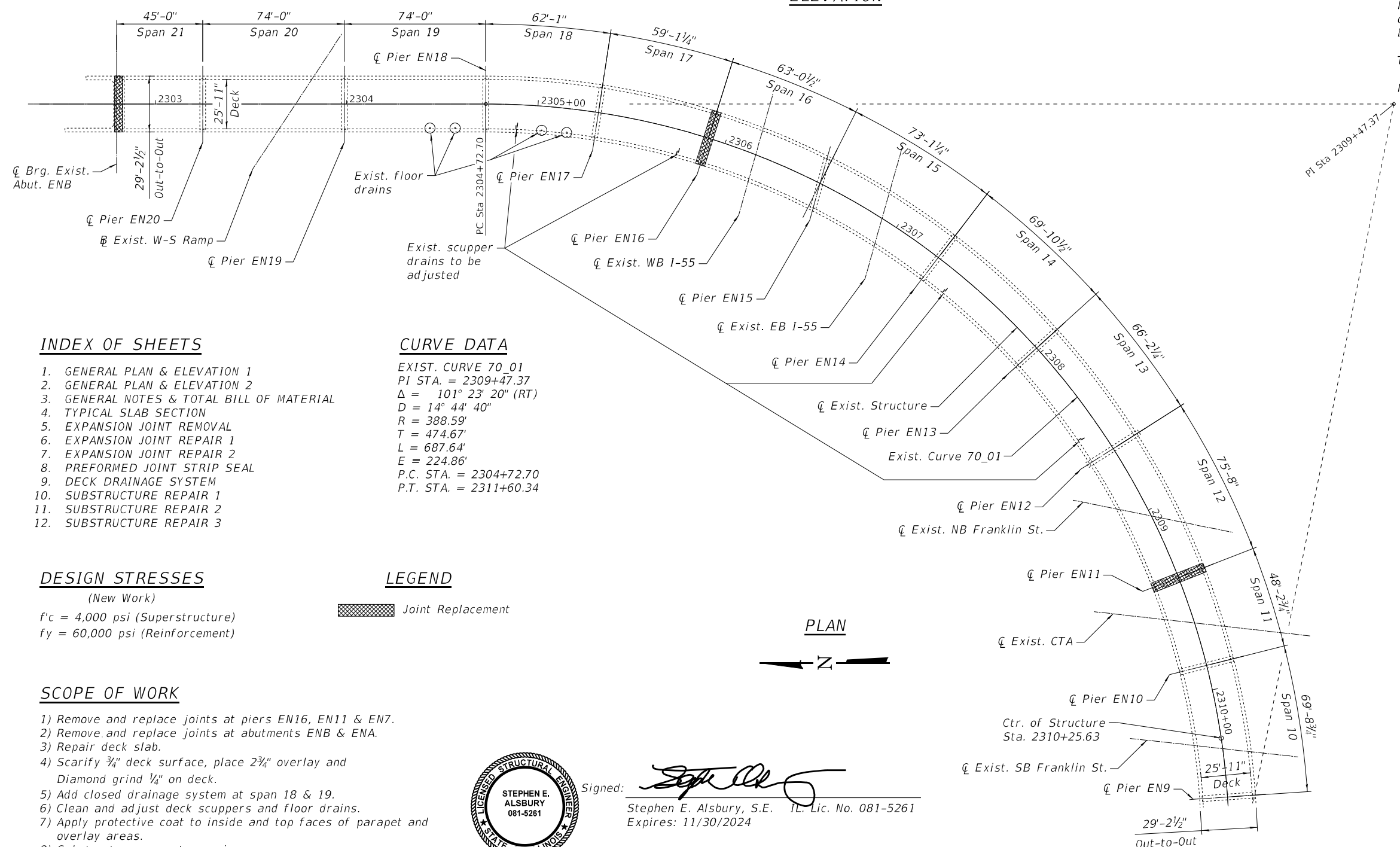


ELEVATION

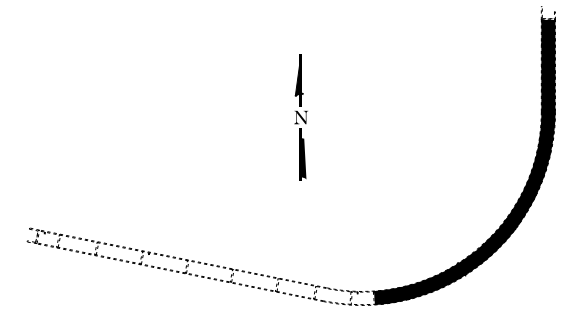
Existing Structure: S.N. 016-1056 was built as F.A.I. Route 55, Section SW-1717.6-2P in 1964. Superstructure replacement in 2001. The structure consists of 21 steel beam spans supported on twenty piers and two abutments, with a total approx. length of 1491'-10". The structure is built on a horizontal curve and piers are at various skews. The twenty piers and both abutments are supported on caissons.

The ramp will be completely closed during construction.

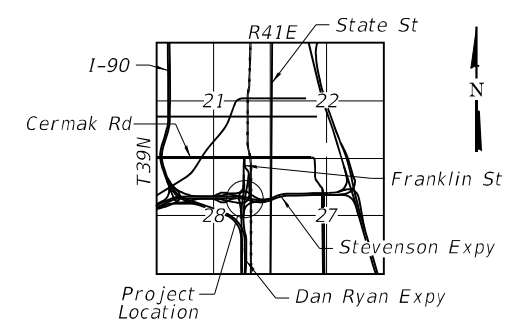
No salvage of bridge components.



PLAN



KEY PLAN



LOCATION MAP

**GENERAL PLAN & ELEVATION 1
E.B. I-55 TO N.B. FRANKLIN STREET
OVER F.A.I. ROUTE 55 AND
FRANKLIN STREET
SEC. FAI 55 22 DECK OVERLAY
COOK COUNTY
STATION 2310+25.63
S.N. 016-1056**

INDEX OF SHEETS

1. GENERAL PLAN & ELEVATION 1
2. GENERAL PLAN & ELEVATION 2
3. GENERAL NOTES & TOTAL BILL OF MATERIAL
4. TYPICAL SLAB SECTION
5. EXPANSION JOINT REMOVAL
6. EXPANSION JOINT REPAIR 1
7. EXPANSION JOINT REPAIR 2
8. PREFORMED JOINT STRIP SEAL
9. DECK DRAINAGE SYSTEM
10. SUBSTRUCTURE REPAIR 1
11. SUBSTRUCTURE REPAIR 2
12. SUBSTRUCTURE REPAIR 3

CURVE DATA

EXIST. CURVE 70_01
PI STA. = 2309+47.37
Δ = 101° 23' 20" (RT)
D = 14° 44' 40"
R = 388.59'
T = 474.67'
L = 687.64'
E = 224.86'
P.C. STA. = 2304+72.70
P.T. STA. = 2311+60.34

DESIGN STRESSES

(New Work)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)

LEGEND

Joint Replacement

SCOPE OF WORK

- 1) Remove and replace joints at piers EN16, EN11 & EN7.
- 2) Remove and replace joints at abutments ENB & ENA.
- 3) Repair deck slab.
- 4) Scarify 3/4" deck surface, place 2 3/4" overlay and Diamond grind 1/4" on deck.
- 5) Add closed drainage system at span 18 & 19.
- 6) Clean and adjust deck scuppers and floor drains.
- 7) Apply protective coat to inside and top faces of parapet and overlay areas.
- 8) Substructure concrete repairs.



Signed:
Stephen E. Alsbury, S.E. IL Lic. No. 081-5261
Expires: 11/30/2024

Date: 4/19/2023

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION 1
STRUCTURE NO. 016-1056**

SHEET 1 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	9
CONTRACT NO. 62U63				

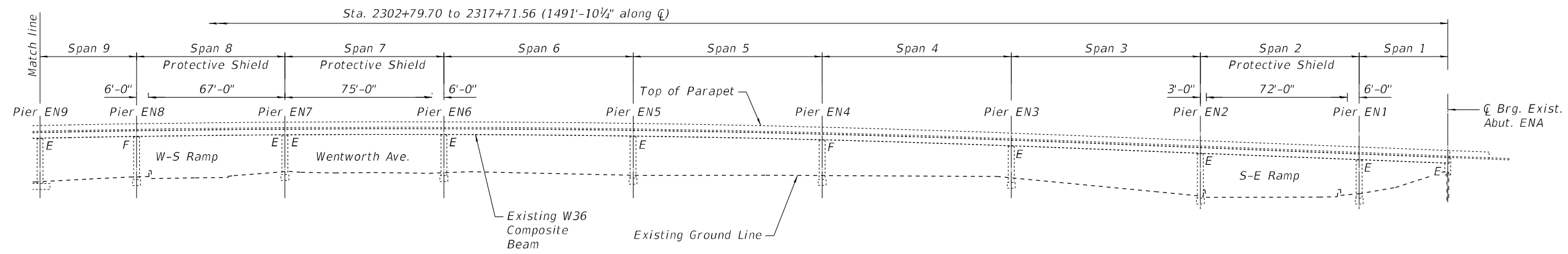
ILLINOIS FED. AID PROJECT

FILE NAME: \\abna\jobfiles\2023\60411\WO_7\CAD_Sheets\0161056-62U63-001-GPE01.dgn

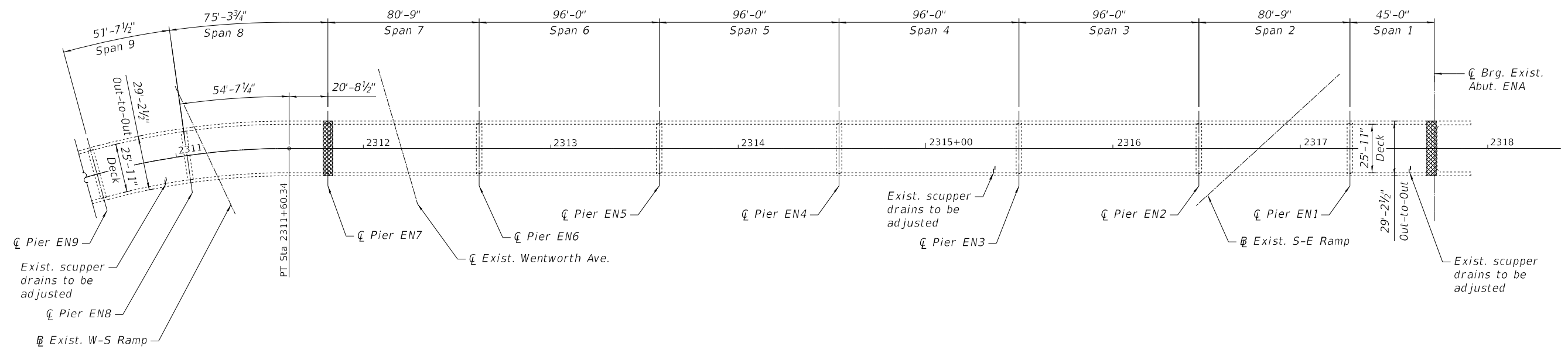


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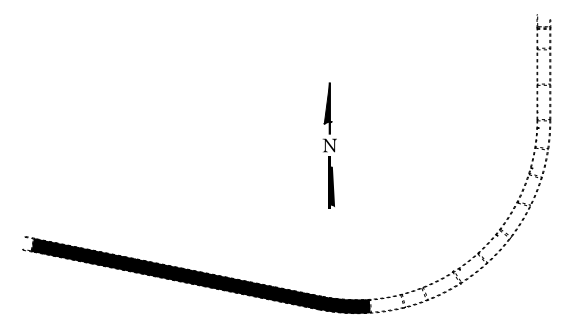
ELEVATION



PLAN

LEGEND

Joint Replacement



GENERAL PLAN & ELEVATION 2
E.B. I-55 TO N.B. FRANKLIN STREET
OVER F.A.I. ROUTE 55 AND
FRANKLIN STREET
SEC. FAI 55 22 DECK OVERLAY
COOK COUNTY
STATION 2310+25.63
S.N. 016-1056

FILE NAME: \\abna\jobfiles\2023\6041\WO_7\CAD_Sheets\0161056-62U63-002-GPE02.dgn



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GENERAL PLAN & ELEVATION 2
 STRUCTURE NO. 016-1056

SHEET 2 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	10
CONTRACT NO. 62U63				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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

Existing reinforcement shall be cleaned and incorporated into the 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 anchorage system.

Coordination with CTA is required for work in span 11 and joint replacement at pier EN11.

Up to 1/4 inch may be ground off the bridge deck.

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

TOTAL BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	26.1
Protective Shield	Sq. Yd.	2128
Concrete Superstructure	Cu. Yd.	29.3
Protective Coat	Sq. Yd.	5505
Reinforcement Bars, Epoxy Coated	Pound	3820
Prefomed Joint Strip Seal	Foot	140
Drainage System for Structures	L. Sum	1
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2653
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq. Yd.	4252
Bridge Deck Scarification 3/4"	Sq. Yd.	4252
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	120
Drainage Scuppers to be Adjusted	Each	7
Diamond Grinding Bridge Section	Sq. Yd.	3647

FILE NAME: \\abna\jobfiles\2022\6041\WO_7\CAD_Sheets\0161056-62U63-003-GENOTES.dgn



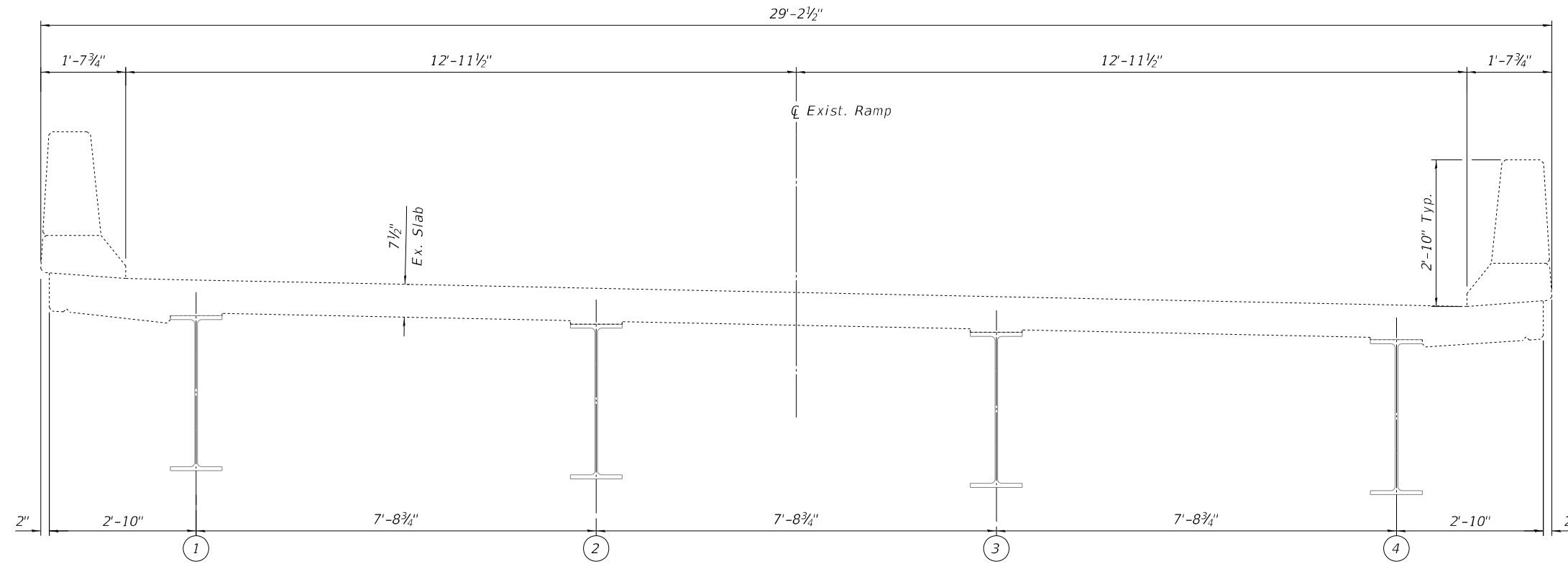
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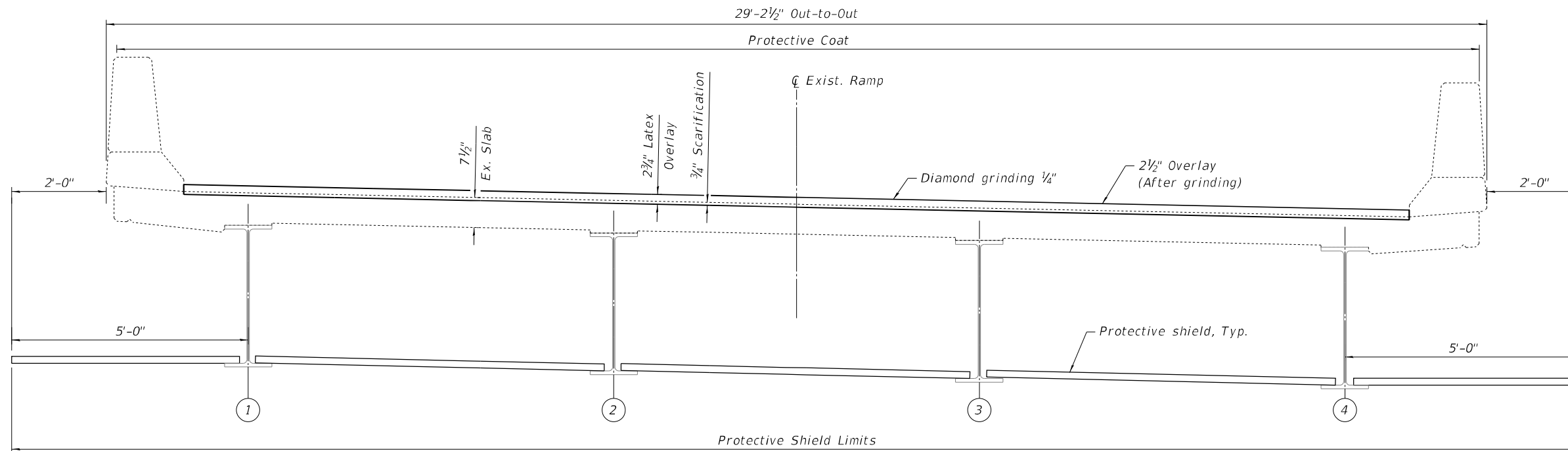
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & TOTAL BILL OF MATERIAL
STRUCTURE NO. 016-1056**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	11
CONTRACT NO. 62U63				
		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL SLAB SECTION
(Looking Upstation)



PROPOSED TYPICAL SLAB SECTION
(Looking Upstation)

FILE NAME: \\abna\jobfiles\2023\60411\WO_7\CAD_Sheets\0161056-62U63-004-TYPSECT.dgn



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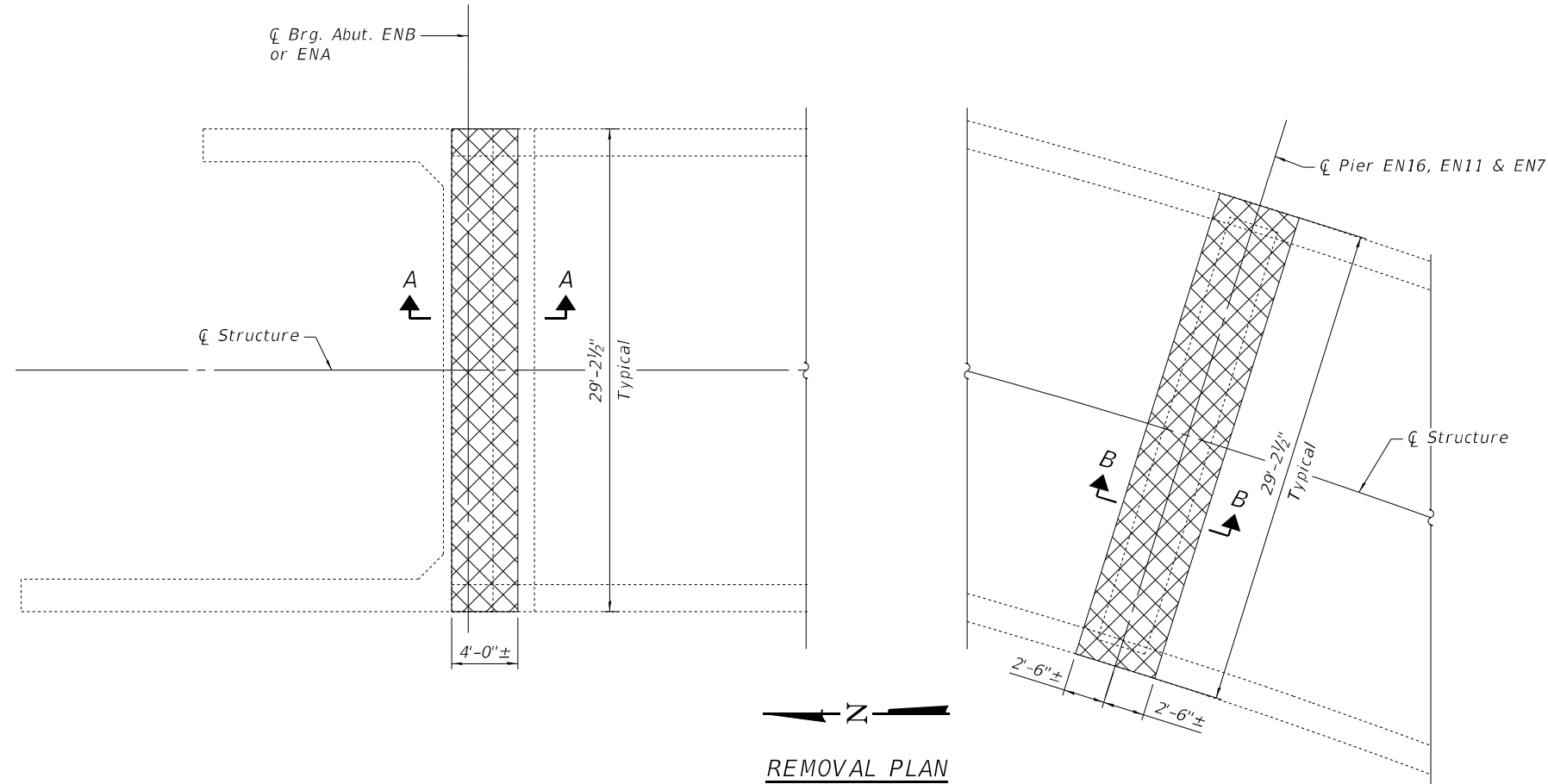
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SLAB SECTION
STRUCTURE NO. 016-1056**

SHEET 4 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	12
CONTRACT NO. 62U63				

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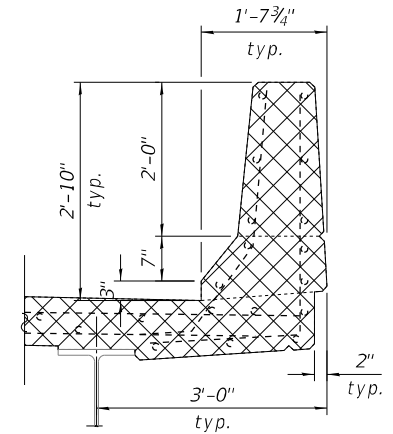


REMOVAL PLAN

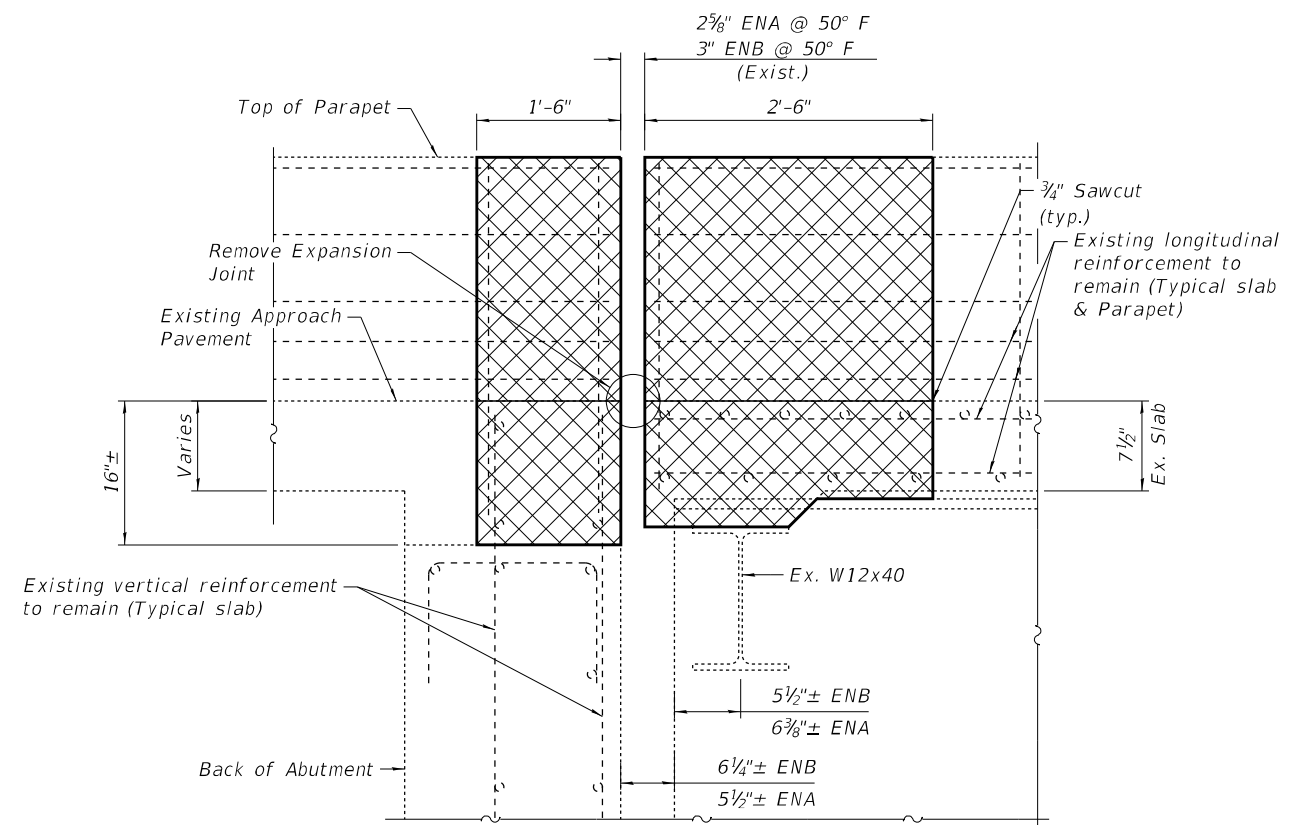
NOTES

Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.

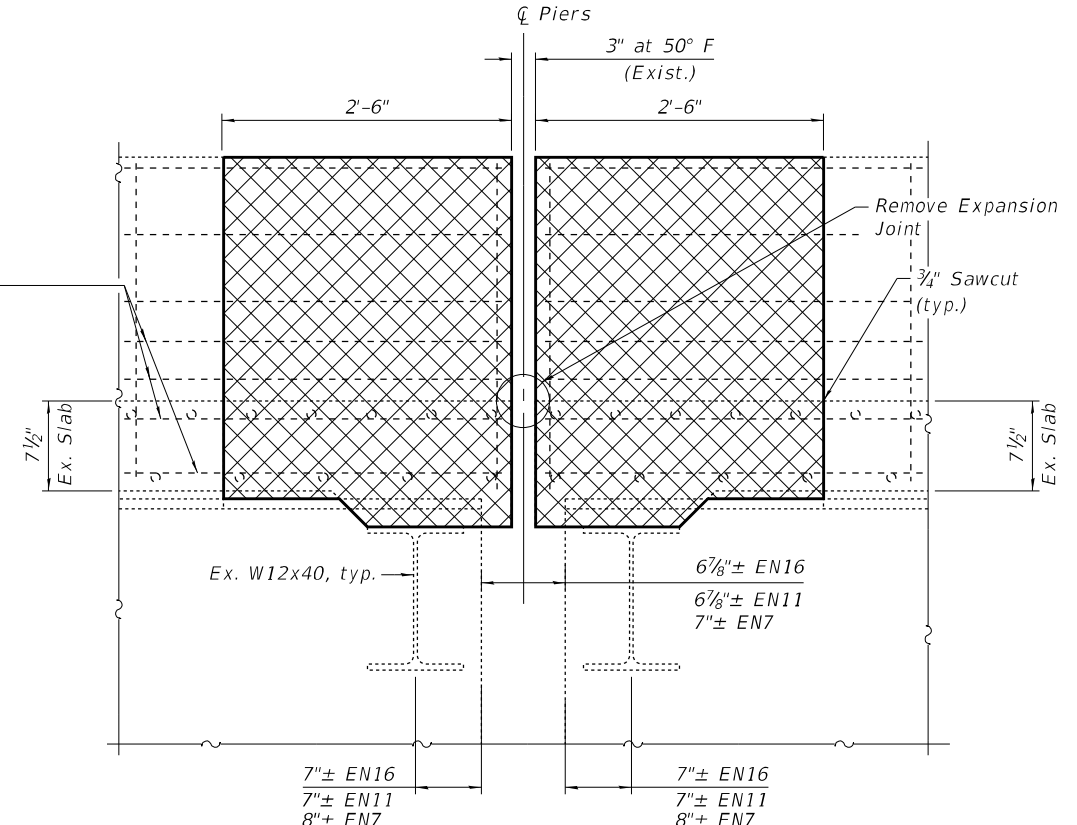
Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following concrete removal to ensure the existing reinforcement remaining in place is not damaged. All existing reinforcing to be incorporated into new construction shall be blast-cleaned, straightened and properly positioned prior to concrete placement. Any reinforcement damaged during concrete removal shall be repaired or replaced using an approved Mechanical Bar Splicer System. Cost of removal shall be included with pay item for Concrete Removal. Cost of replacement shall be included with pay item for Concrete Superstructure.



EXISTING PARAPET SECTION

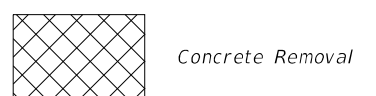


SECTION A-A
(Abut. ENB Shown, ENA Opposite)



SECTION B-B

LEGEND



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	26.1

FILE NAME: \\abna\jobfiles\2022\60411\WO 7\CAD_Sheets\0161056-62U63-005-EXP JT REM.dgn



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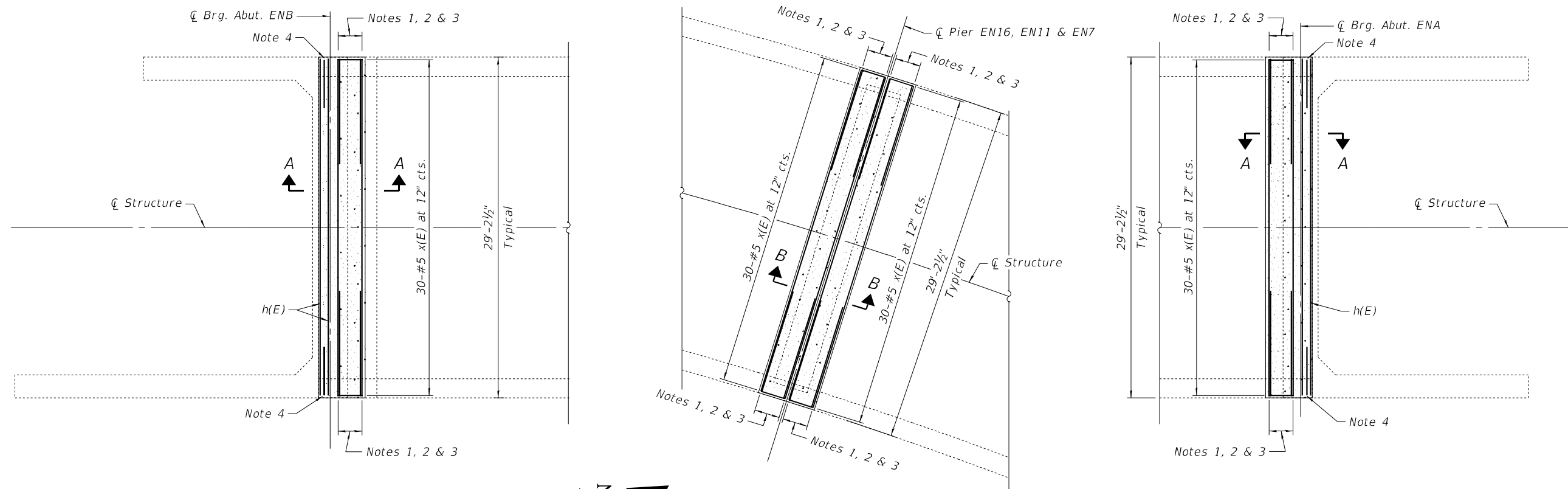
**STATE OF ILLINOIS
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**EXPANSION JOINT REMOVAL
STRUCTURE NO. 016-1056**

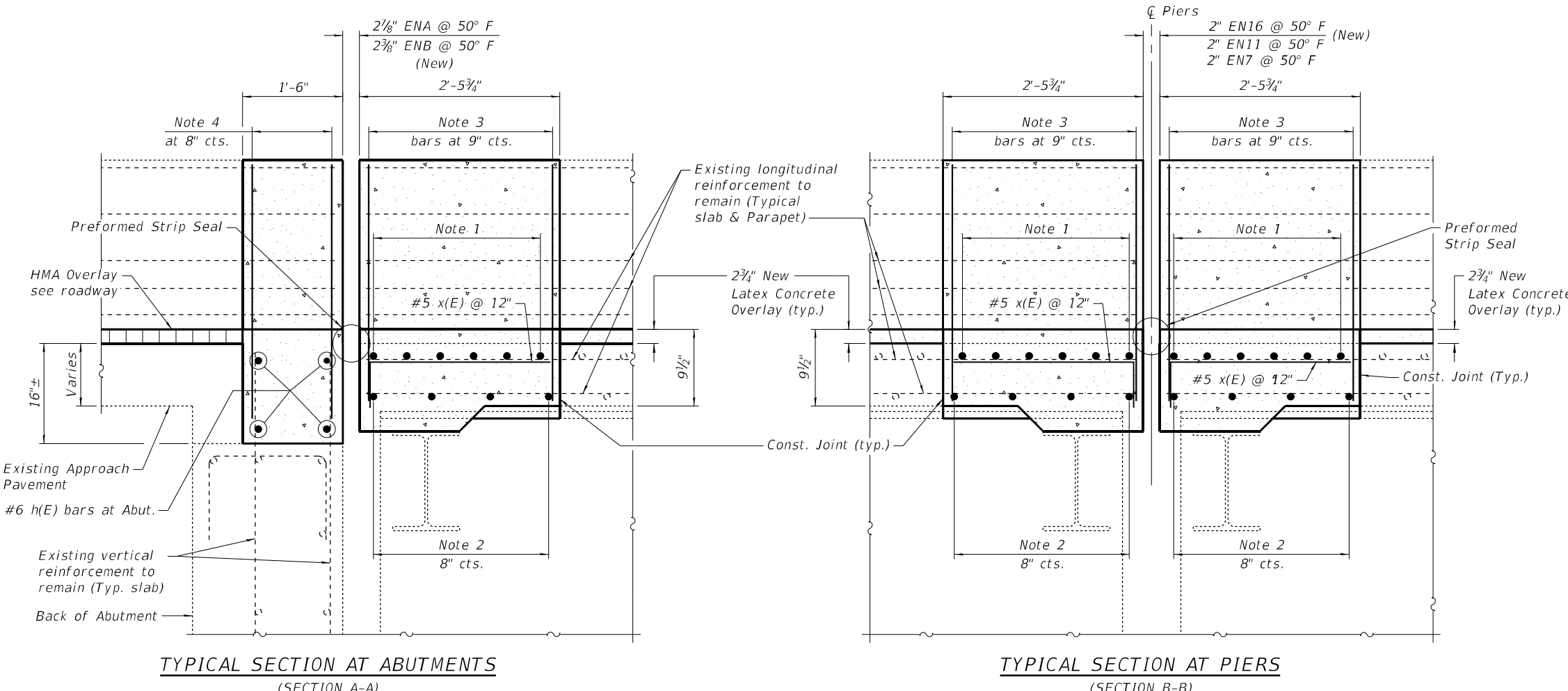
SHEET 5 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	13
CONTRACT NO. 62U63				

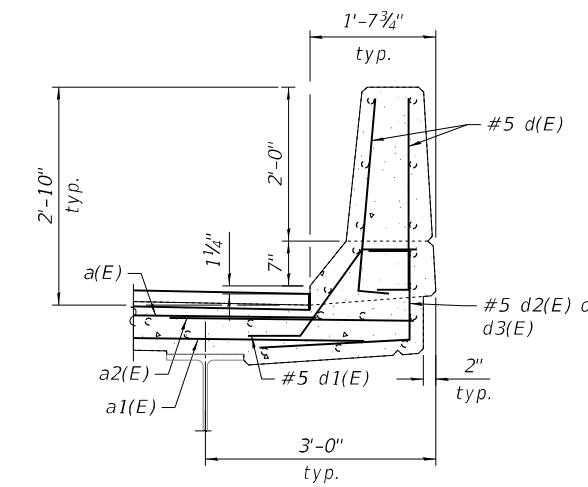
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← Z →
REPAIR PLAN



- Notes:**
- (1) 3-#5 a(E) & 3-#5 a2(E) each side
Alt. at 5" Cts. (top)
 - (2) 4-#5 a1(E)
 - (3) 4-pair #5 d(E)
4-#5 d1(E)
4-#5 d2(E) Left
4-#5 d3(E) Right
 - (4) 3-pair #5 d(E) & 3-#5 d2(E) or d3(E)



FILE NAME: \\abna\jobfiles\2022\60411\WO_7\CAD_Sheets\0161056-62U63-006-EXP_IT_REPAIR01.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPAIR 1
STRUCTURE NO. 016-1056**

SHEET 6 OF 12 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	14
CONTRACT NO. 62U63				

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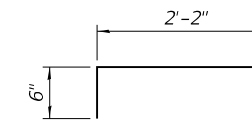
NOTES

The existing 7½" slab shall be scarified ¾" and then a 2¾" thick latex concrete overlay shall be placed on the deck.

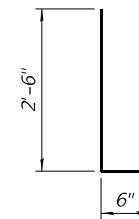
For details of Preformed Joint Strip Seal Expansion Joints, see Sheet No. 8.

BILL OF MATERIAL

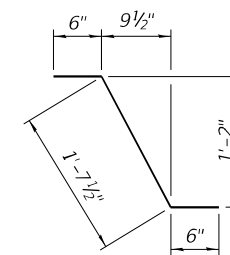
Bar	No.	Size	Length	Shape
a(E)	24	#5	28'-6"	—
a1(E)	32	#5	27'-7"	—
a2(E)	48	#5	4'-0"	—
h(E)	8	#6	25'-7"	—
d(E)	152	#5	3'-0"	┌┐
d1(E)	76	#5	2'-7"	┌┐
d2(E)	38	#5	4'-1"	┌┐
d3(E)	38	#5	4'-1"	┌┐
x(E)	240	#5	2'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	3820
Concrete Superstructure			Cu. Yd.	29.3



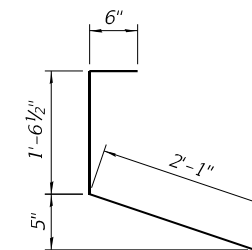
BAR x(E)



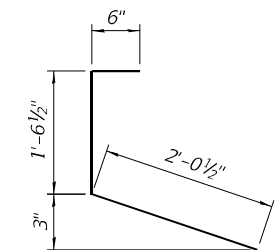
BAR d(E)



BAR d1(E)



BAR d2(E)



BAR d3(E)

FILE NAME: \\abna\jobfiles\2023\6041\WO 7\CAD_Sheets\0161056-62U63-007-EXP JT REPAIR02.dgn



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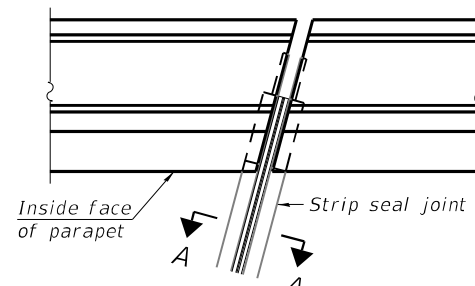
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**STATE OF ILLINOIS
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**EXPANSION JOINT REPAIR 2
STRUCTURE NO. 016-1056**

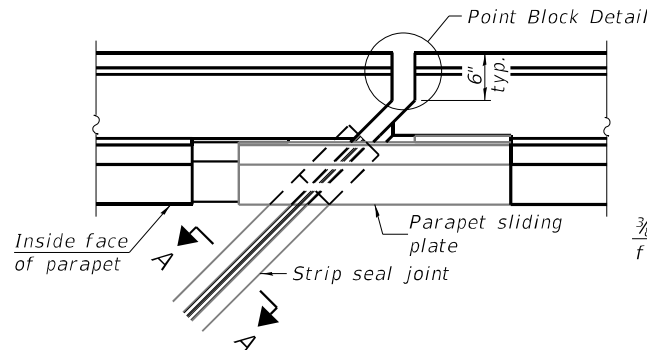
SHEET 7 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	15
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				

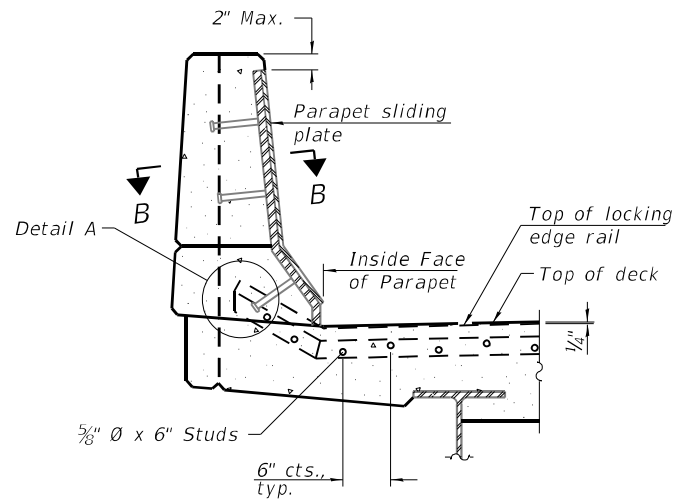


FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

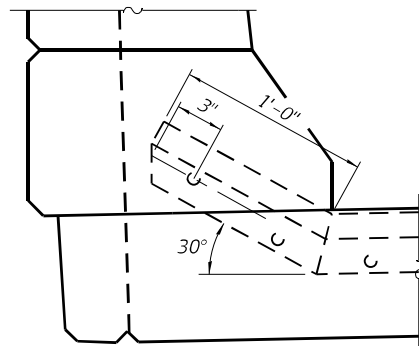


FOR SKEWS $> 30^\circ$

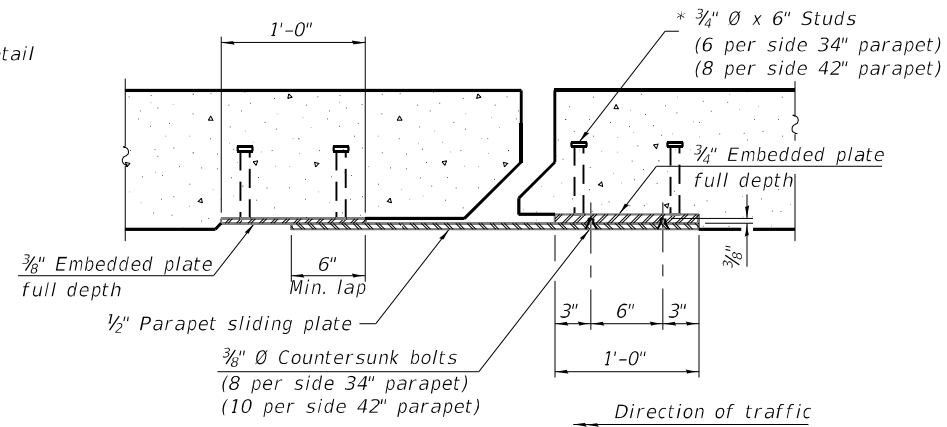


ELEVATION AT PARAPET

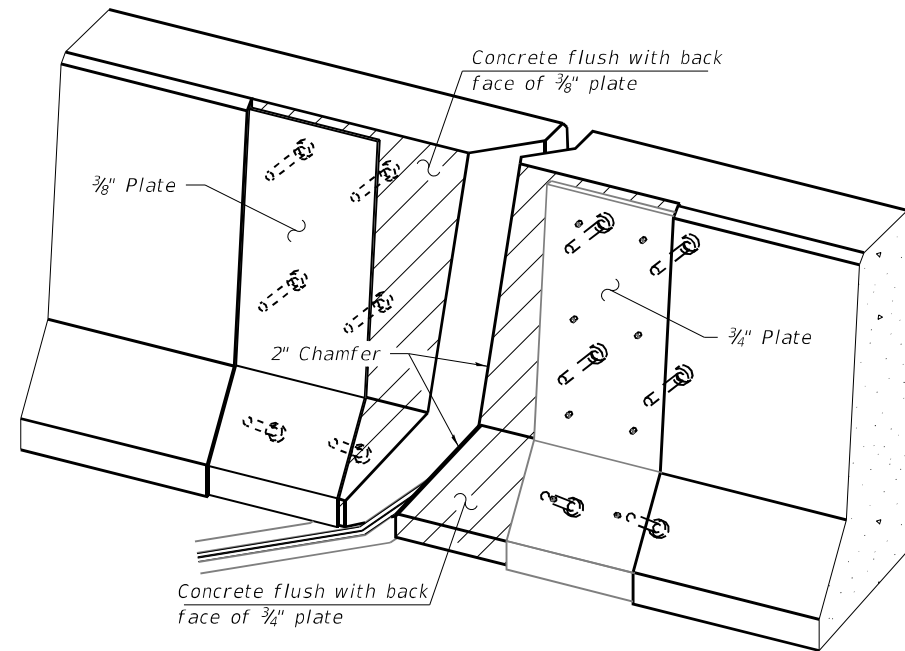
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



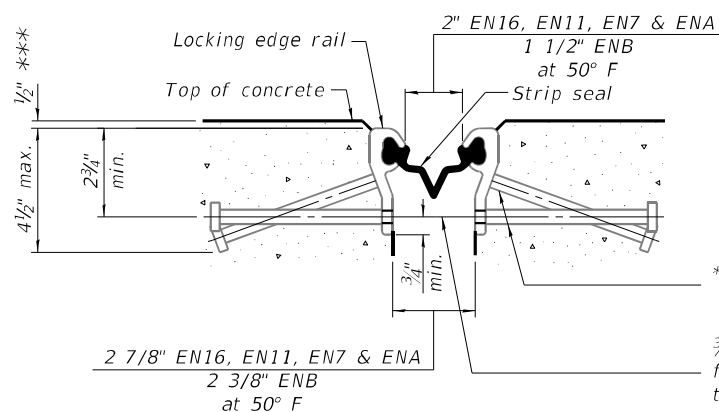
DETAIL A



SECTION B-B



TRIMETRIC VIEW
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

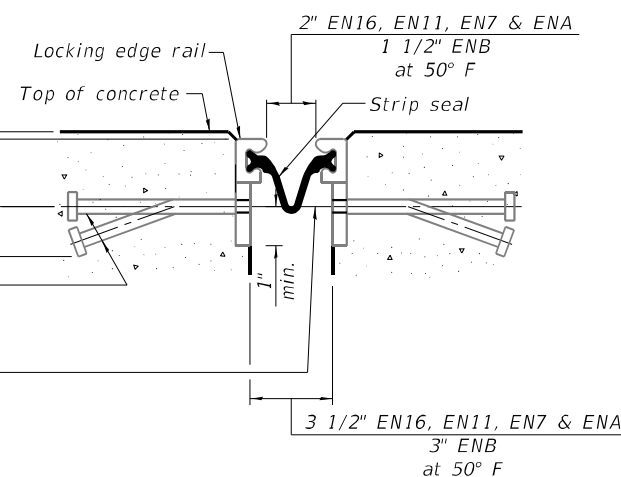
* $3/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

$3/8$ " ϕ threaded rods in $1/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

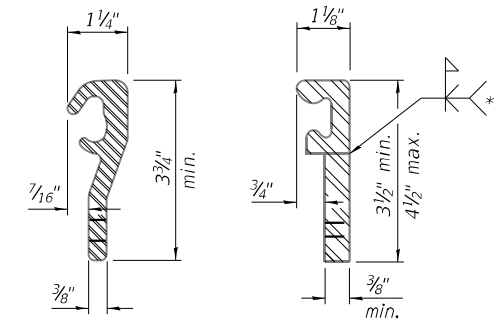
***Prior to grinding

SECTION A-A

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



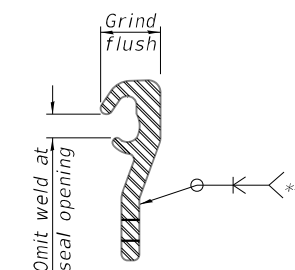
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL
WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	140

FILE NAME: \\abna\jobfiles\2022\60411\WO_7\CAD_Sheets\0161056-62U63-008-IT_STRIP_DETAIL.dgn

Modified



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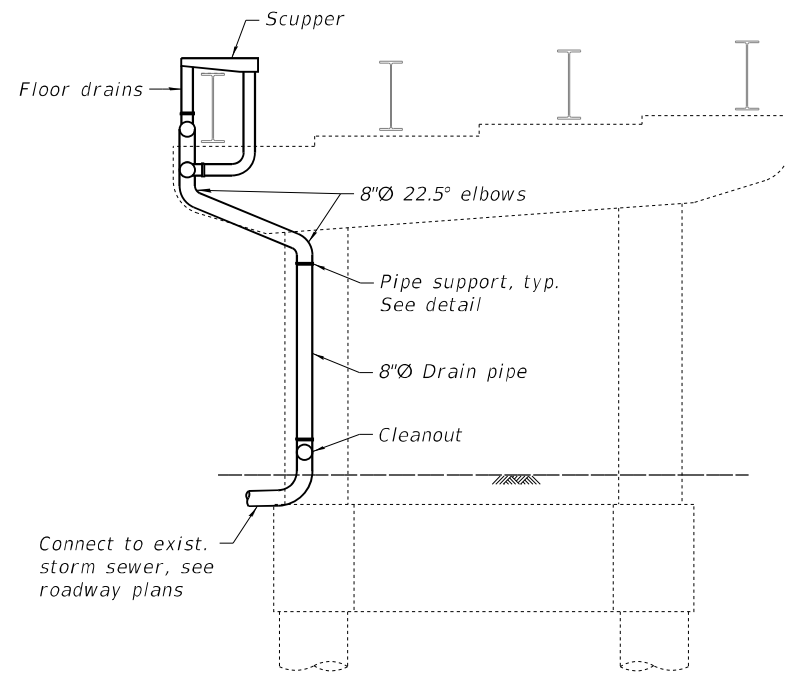
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

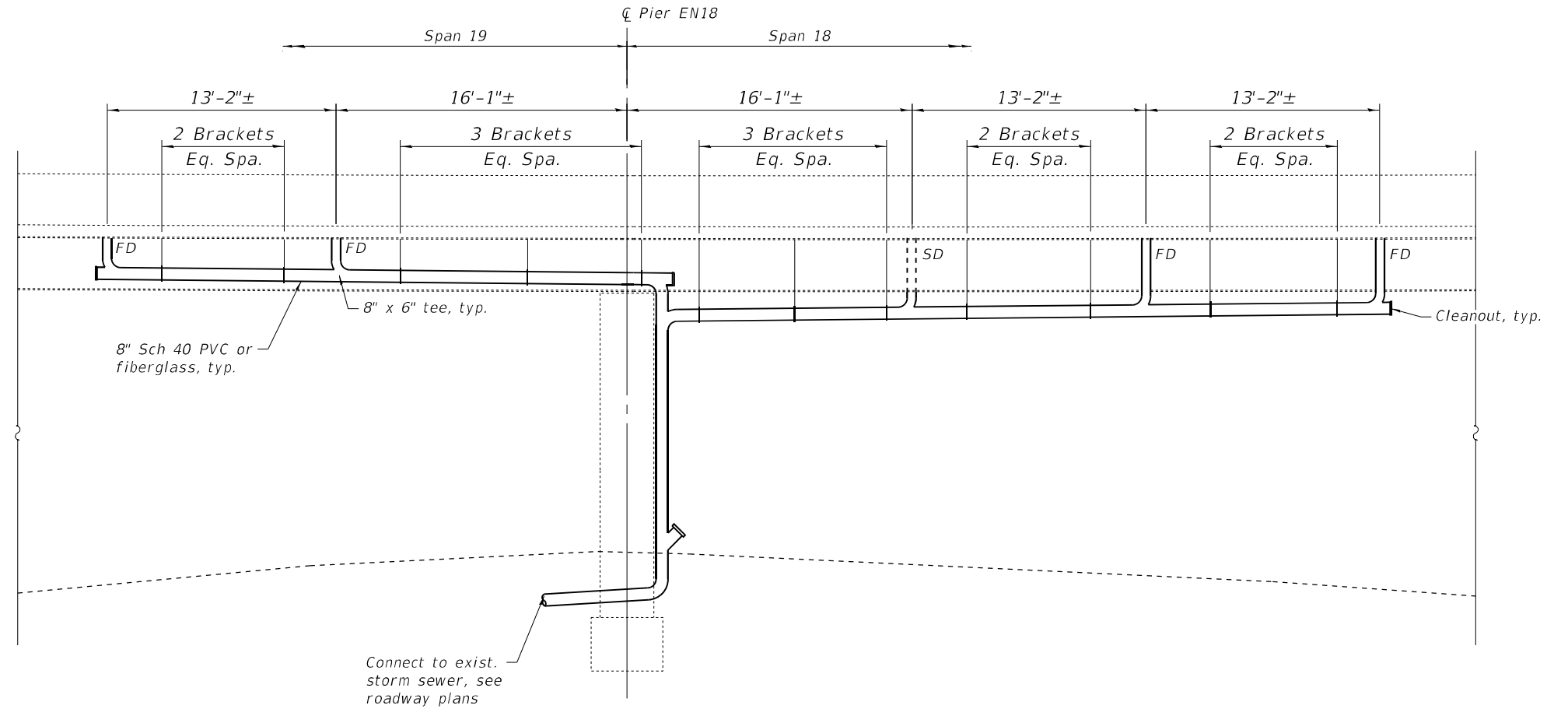
PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-1056

SHEET 8 OF 12 SHEETS

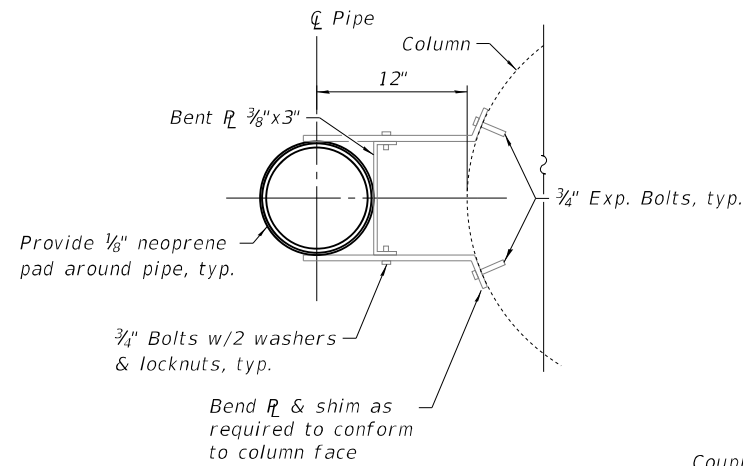
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	16
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				



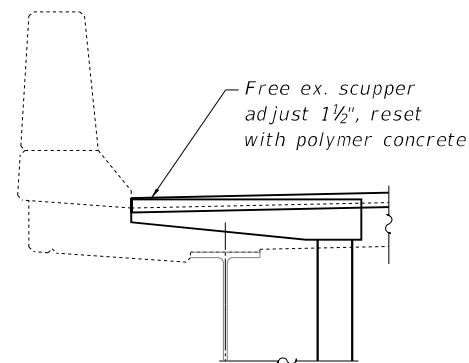
ELEVATION
(Looking North at South face EN18)



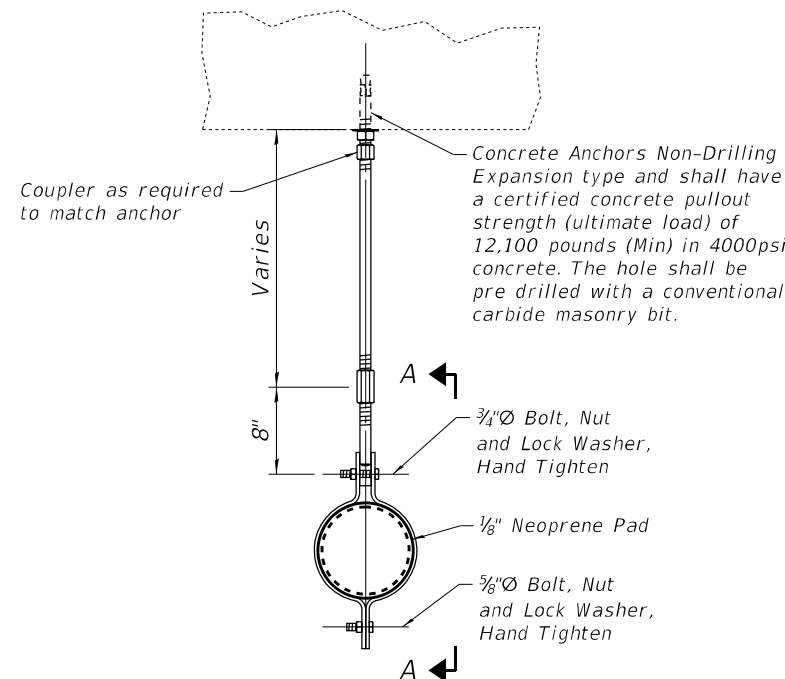
ELEVATION
(Looking at west side of structure)



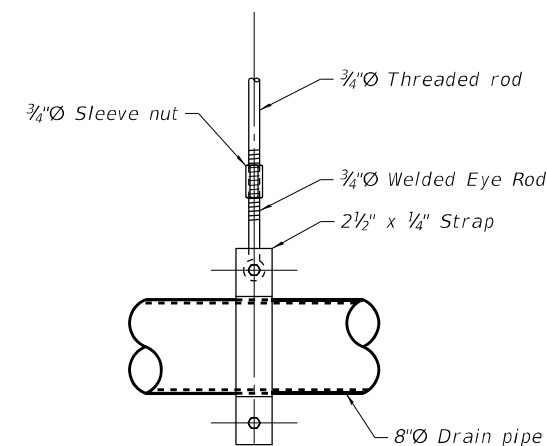
PIPE SUPPORT DETAIL



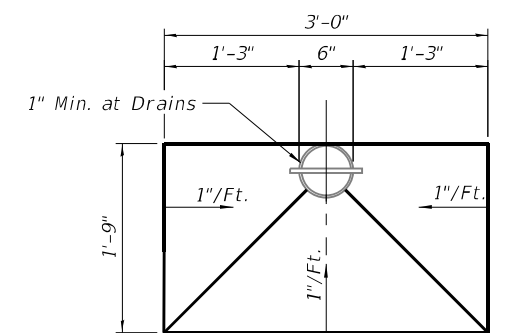
DRAINAGE SCUPPER ADJUSTMENT



COLLECTOR PIPE HANGER DETAIL



SECTION A-A



TOP PLAN
SHOWING OVERLAY TAPER
AT FLOOR DRAINS

FILE NAME: \\abna\jobfiles\2022\6041\WO_7\CAD_Sheets\0161056-62U63-009-DRAINAGE.dgn



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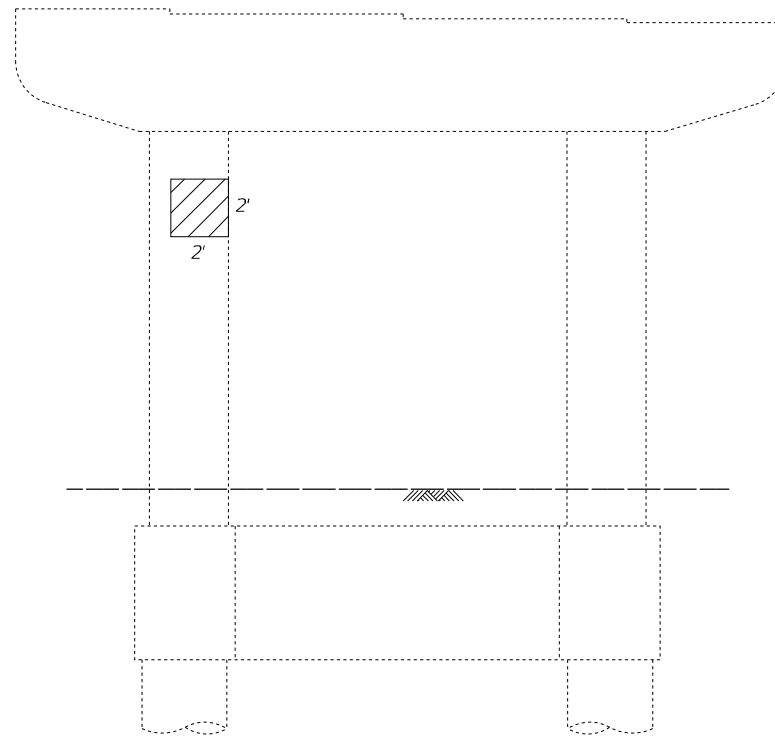
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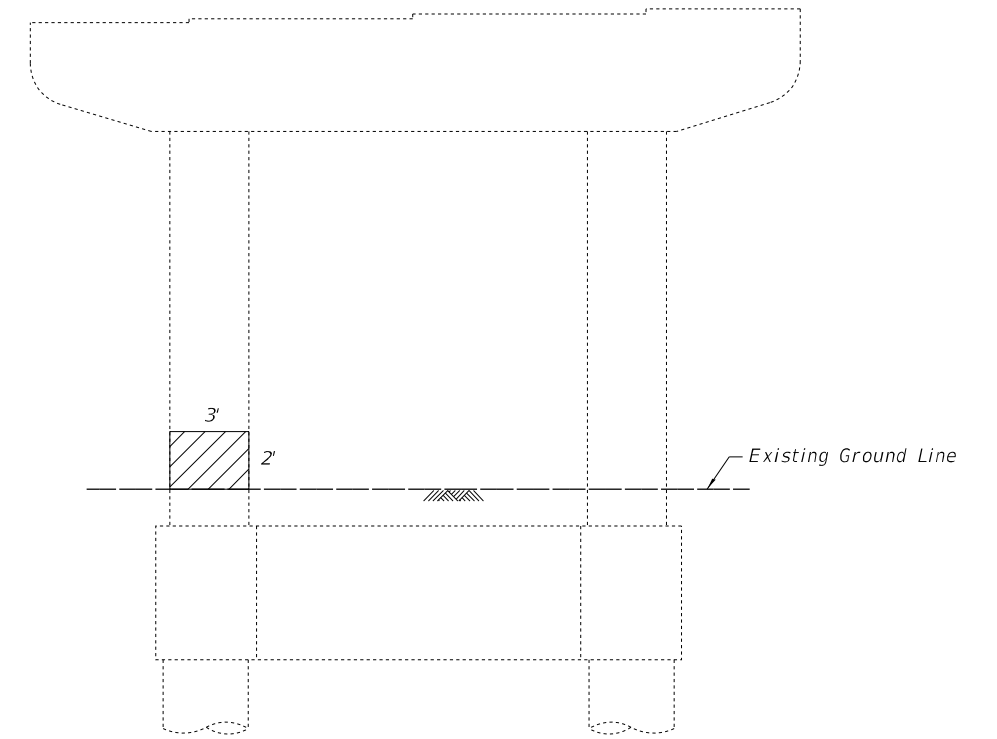
DECK DRAINAGE SYSTEM
STRUCTURE NO. 016-1056

SHEET 9 OF 12 SHEETS

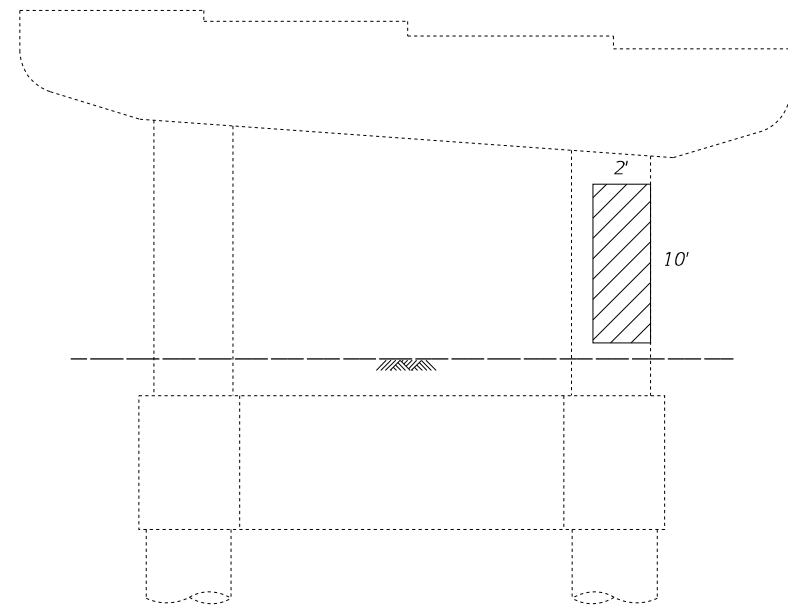
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U63	



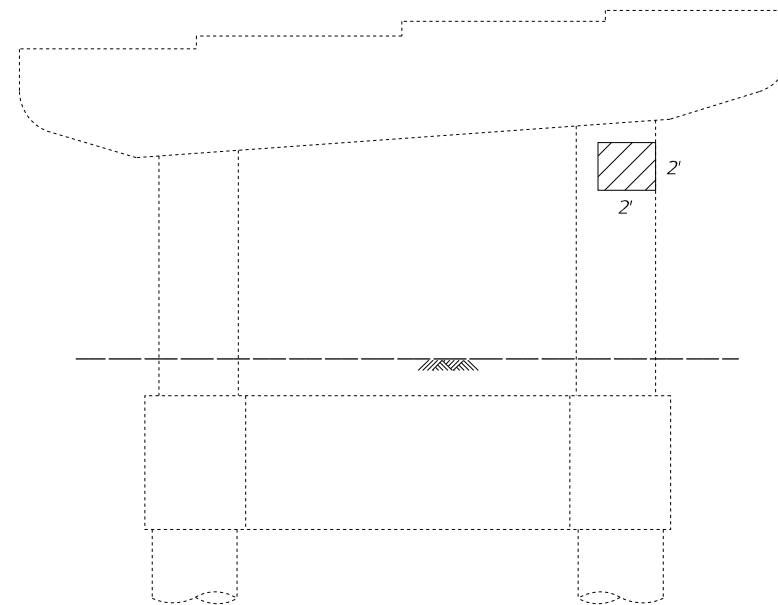
PIER EN20 - NORTH ELEVATION



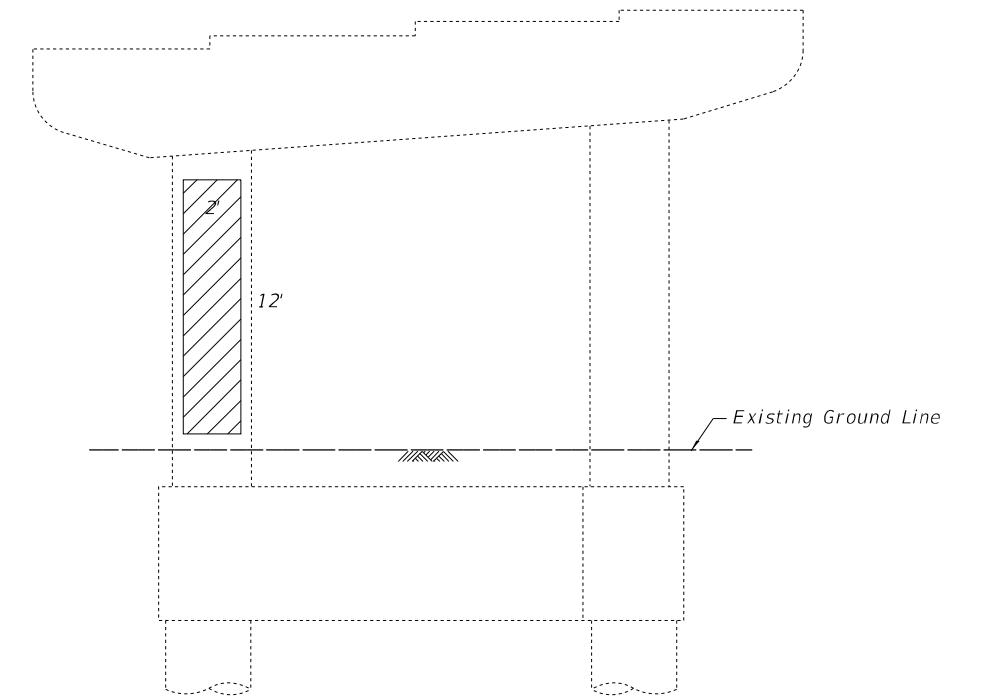
PIER EN20 - SOUTH ELEVATION



PIER EN18 - NORTH ELEVATION




PIER EN18 - SOUTH ELEVATION



PIER EN17 - SOUTH ELEVATION

SUBSTRUCTURE REPAIR ELEVATIONS

LEGEND

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

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	120

FILE NAME: \\abna\jobfiles\2022\60411\WO_7\CAD_Sheets\0161056-62U63-010-SUBSTR_REPAIR01.dgn



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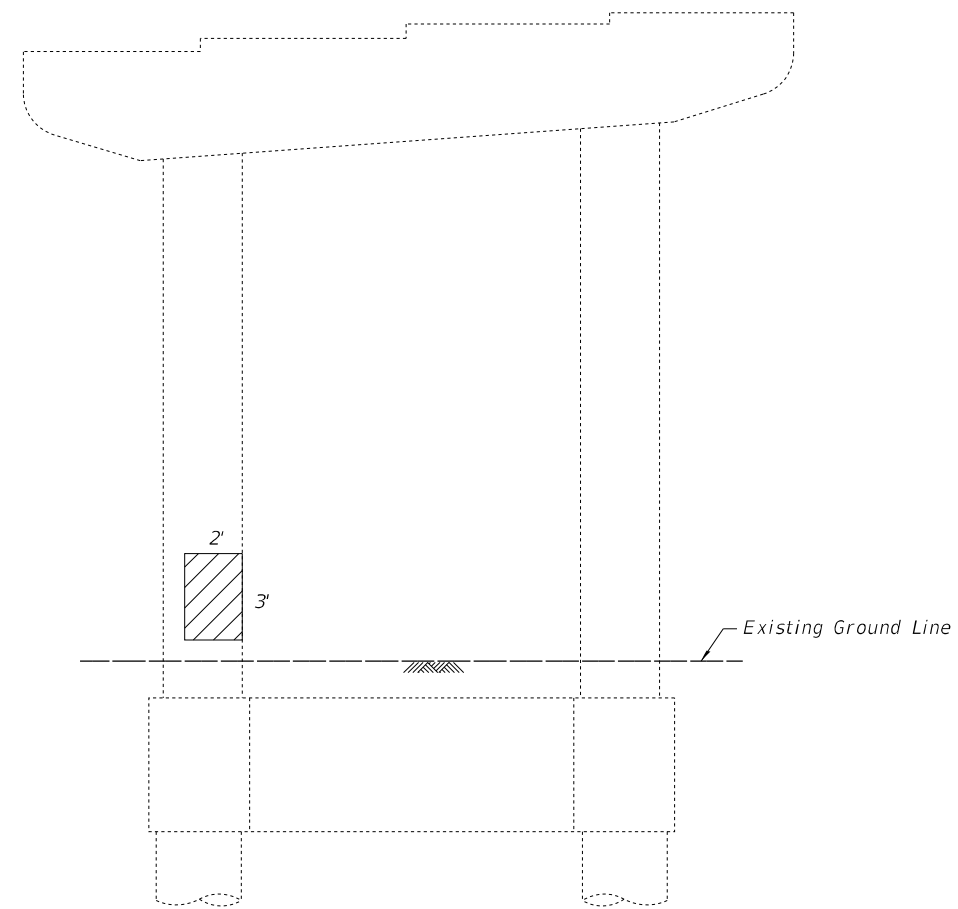
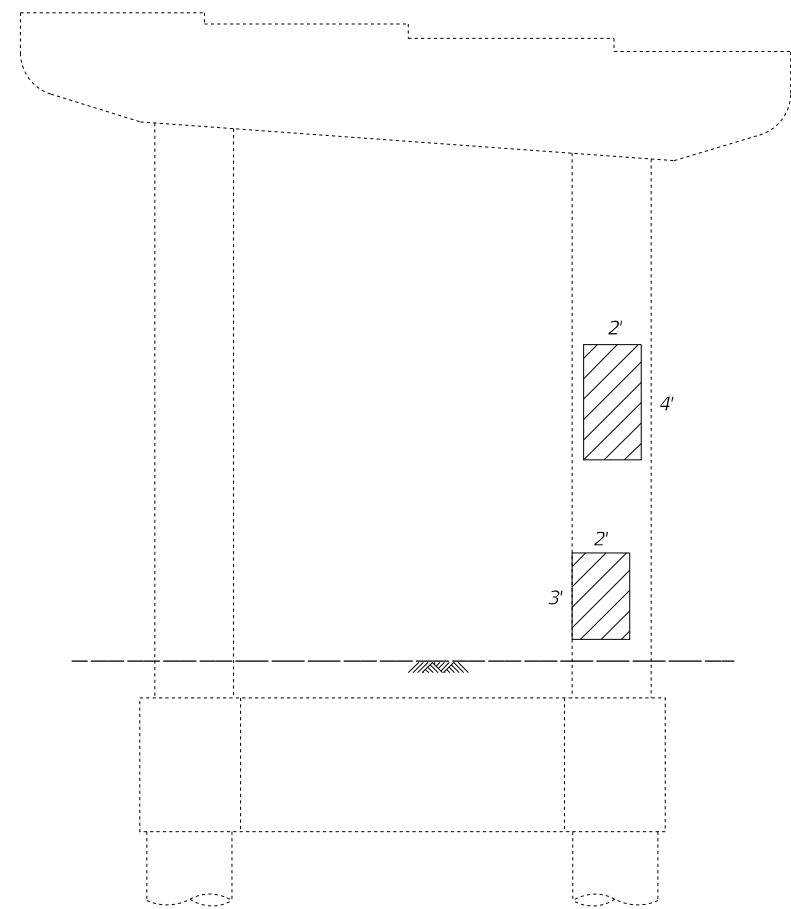
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR 1
STRUCTURE NO. 016-1056**

SHEET 10 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	18
			CONTRACT NO. 62U63	
ILLINOIS FED. AID PROJECT				



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

PIER EN16 - NORTH ELEVATION

PIER EN16 - SOUTH ELEVATION

SUBSTRUCTURE REPAIR ELEVATIONS

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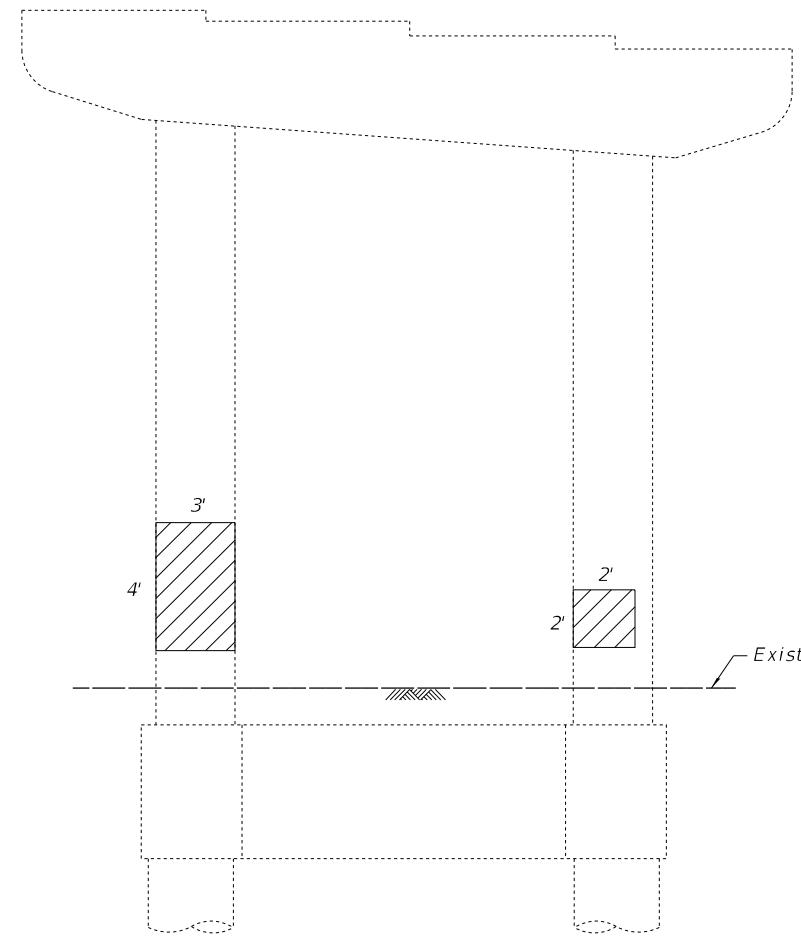
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PLOT DATE = 4/19/2023	CHECKED - SEA	REVISED -

**STATE OF ILLINOIS
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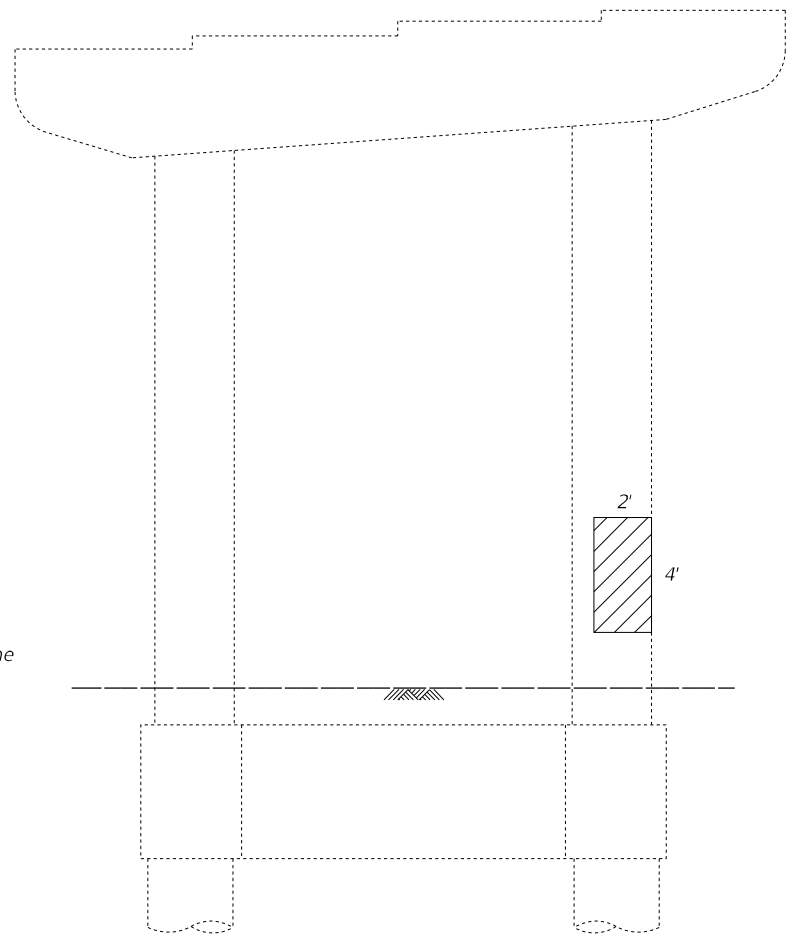
**SUBSTRUCTURE REPAIR 2
 STRUCTURE NO. 016-1056**

SHEET 11 OF 12 SHEETS

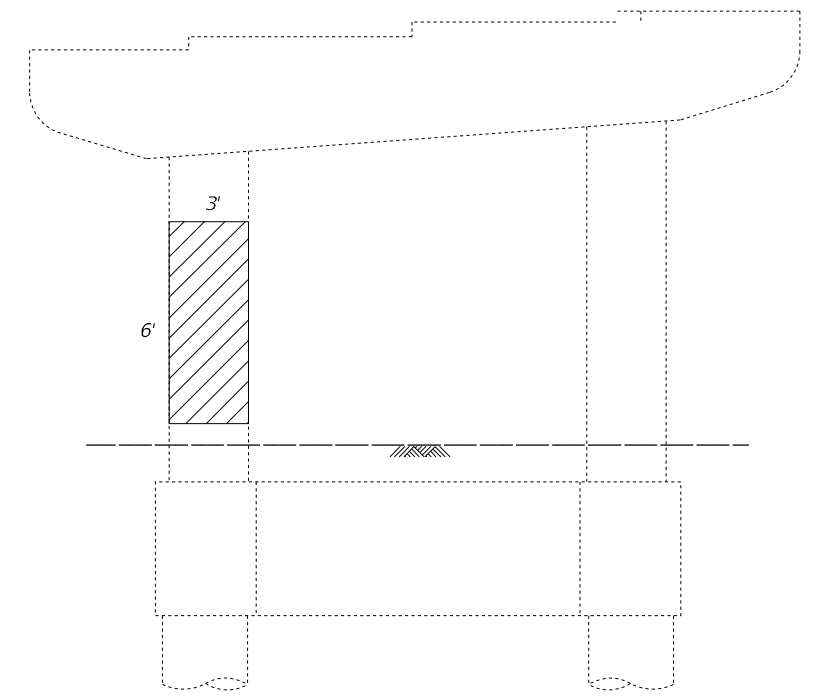
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CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				



PIER EN15 - NORTH ELEVATION




PIER EN15 - SOUTH ELEVATION



PIER EN7 - WEST ELEVATION

Existing Ground Line

LEGEND

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

SUBSTRUCTURE REPAIR ELEVATIONS

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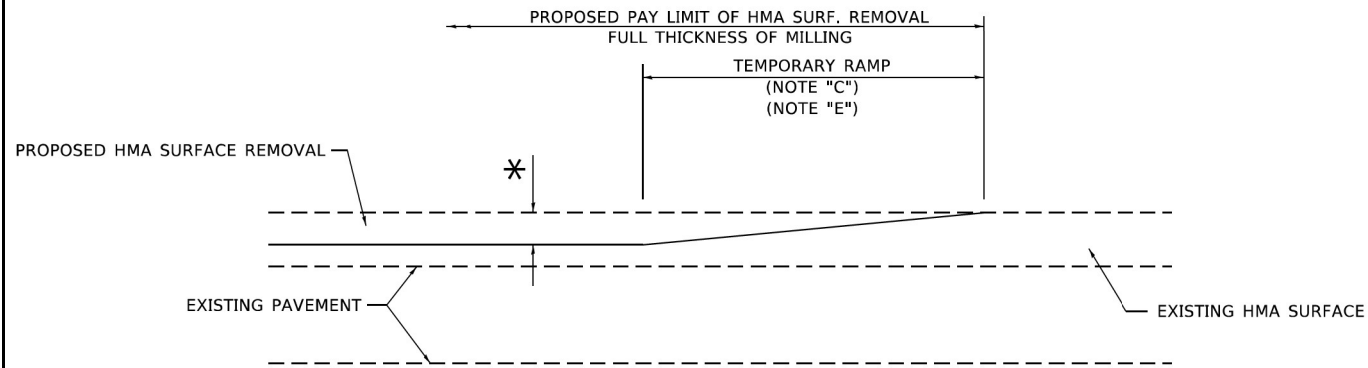
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR 3
STRUCTURE NO. 016-1056**

SHEET 12 OF 12 SHEETS

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CONTRACT NO. 62U63				

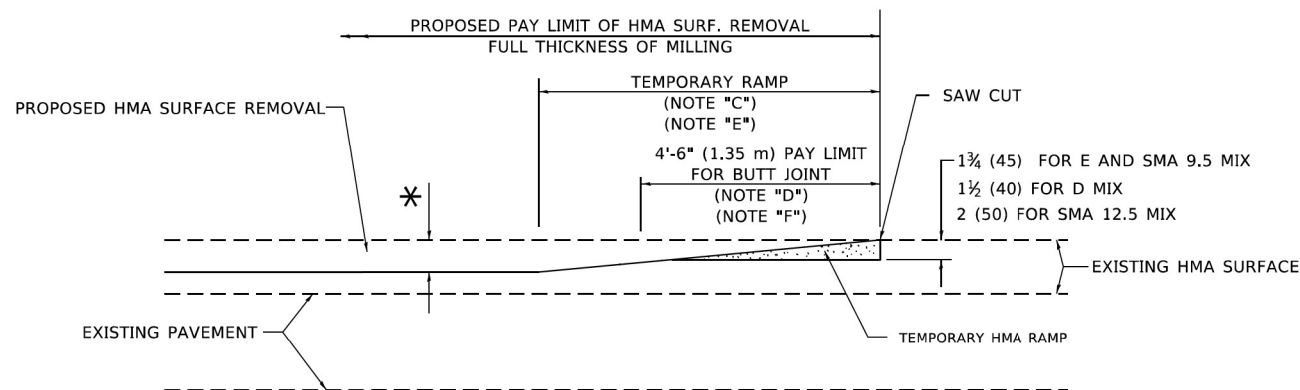
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MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

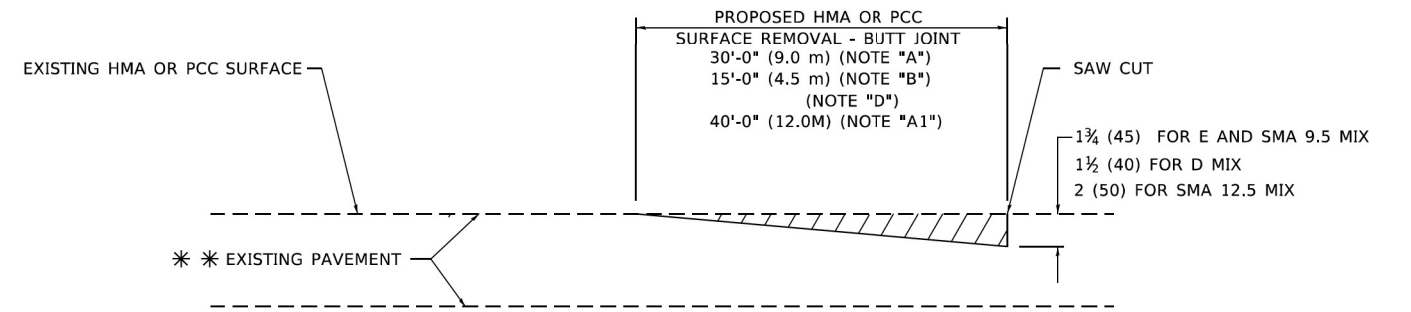


HMA CONSTRUCTED TEMPORARY RAMP

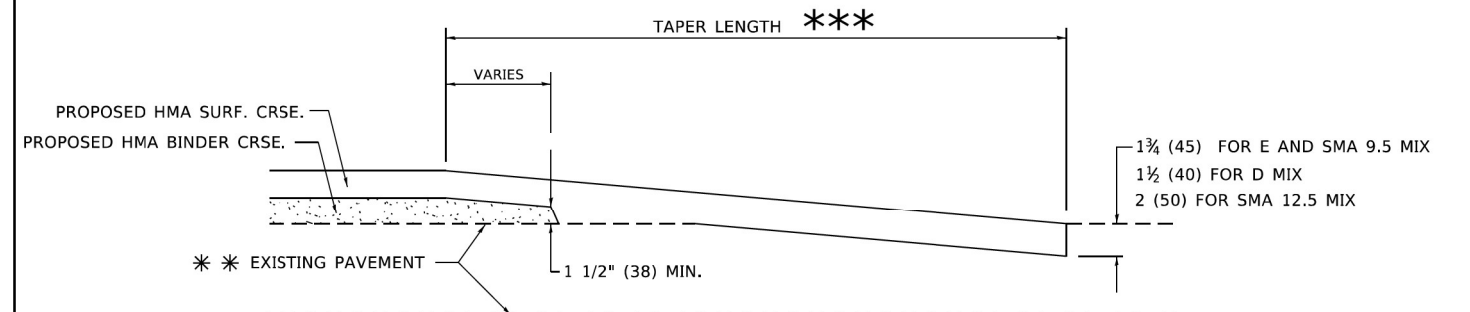
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

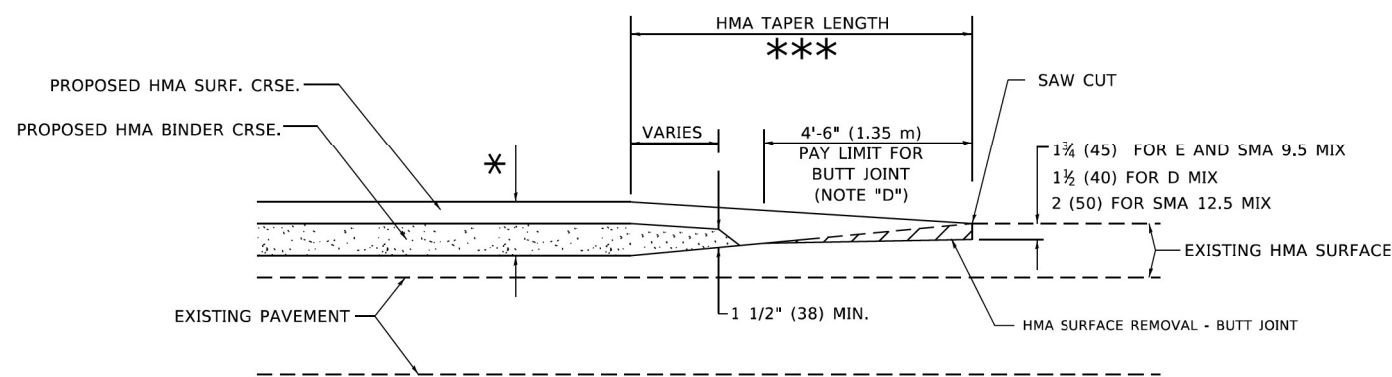
** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

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.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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

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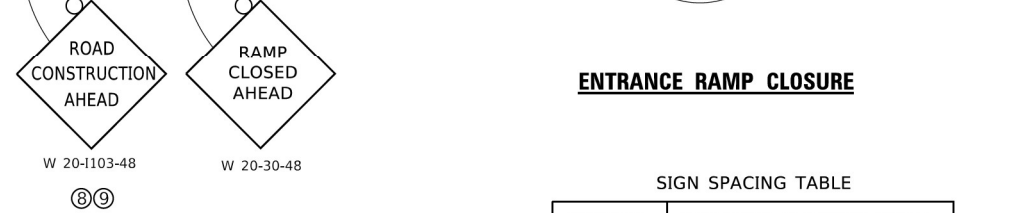
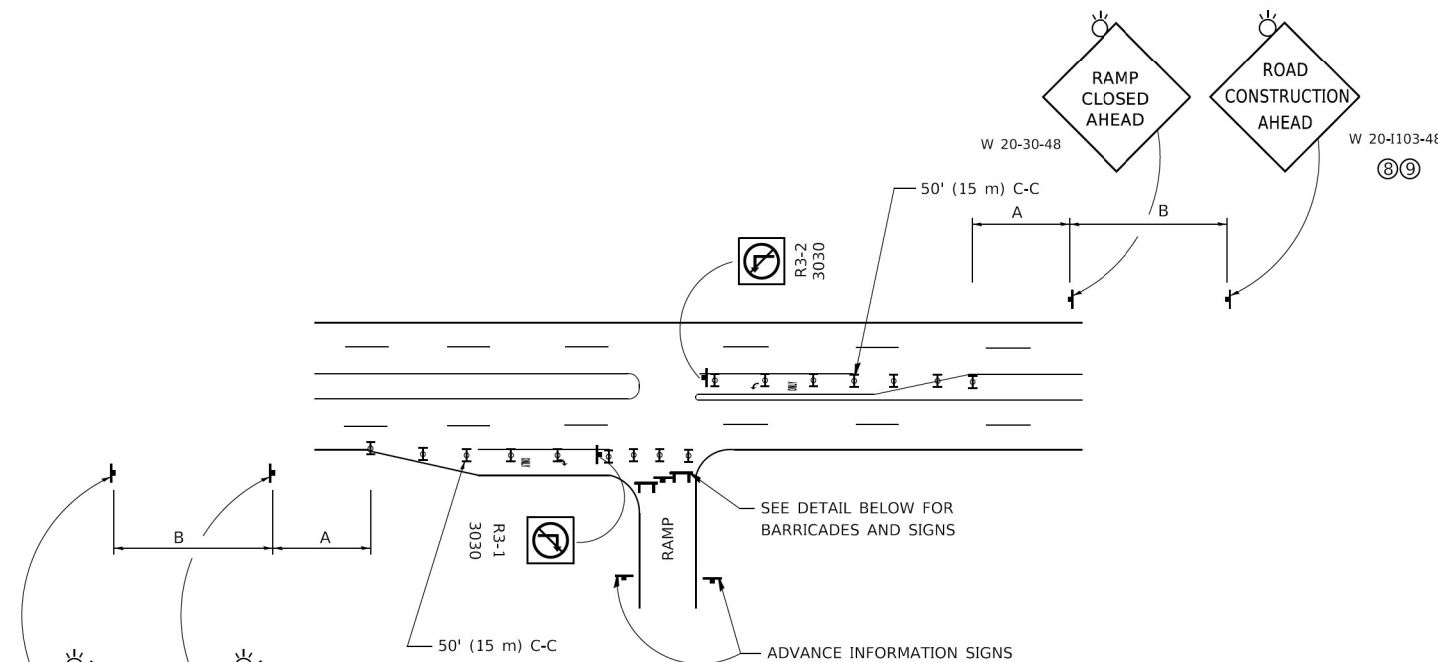
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DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS (BD-32)
STRUCTURE NO. 016-1056

SCALE NONE SHEET 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	21
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				

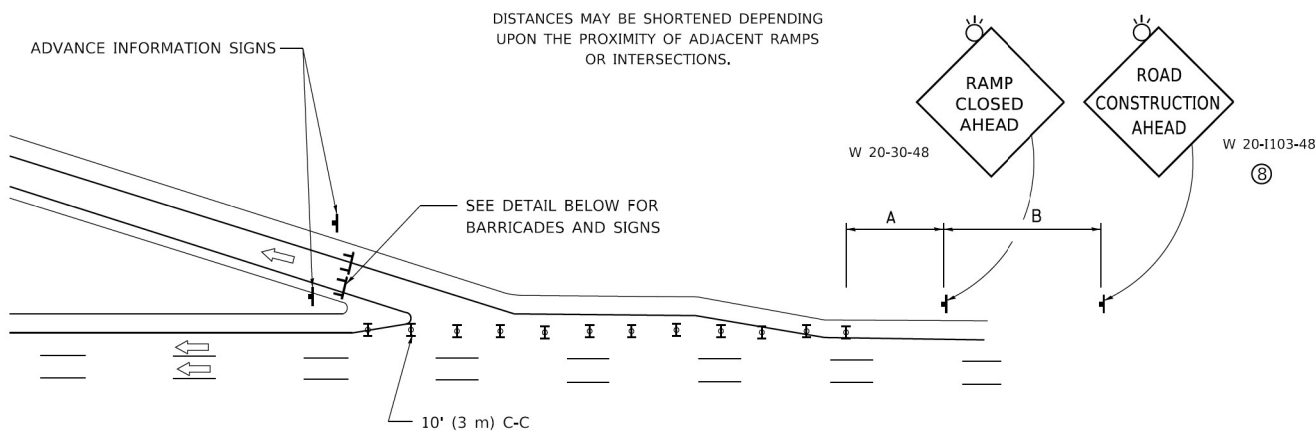


ENTRANCE RAMP CLOSURE

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)

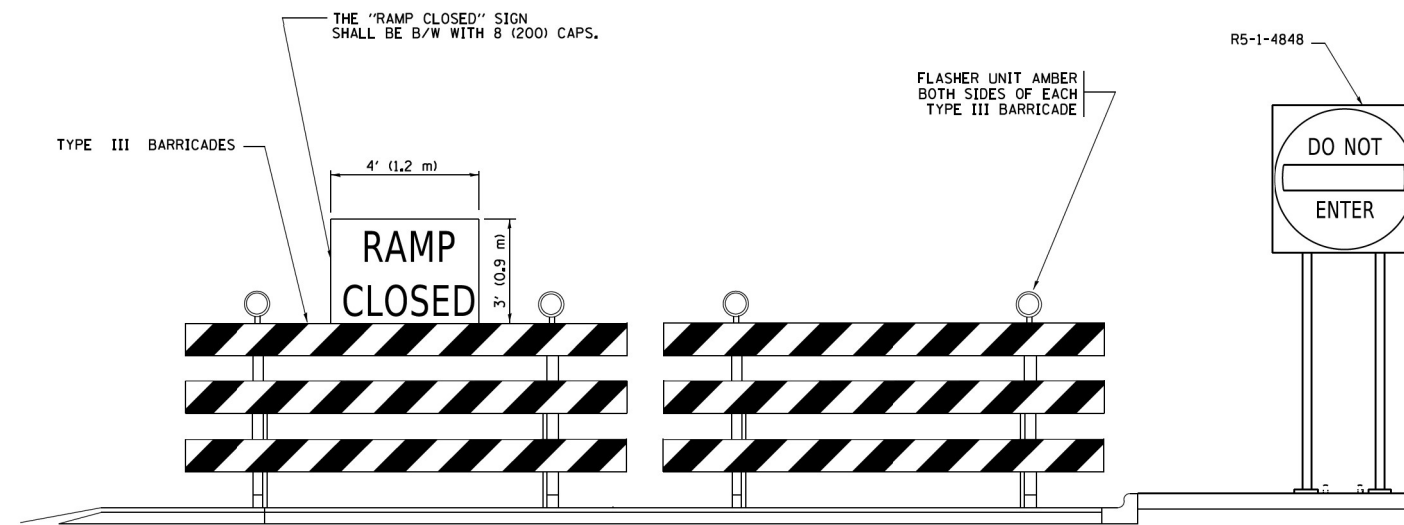
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

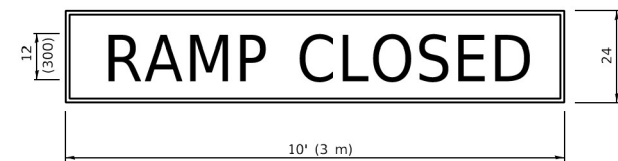
SYMBOLS

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



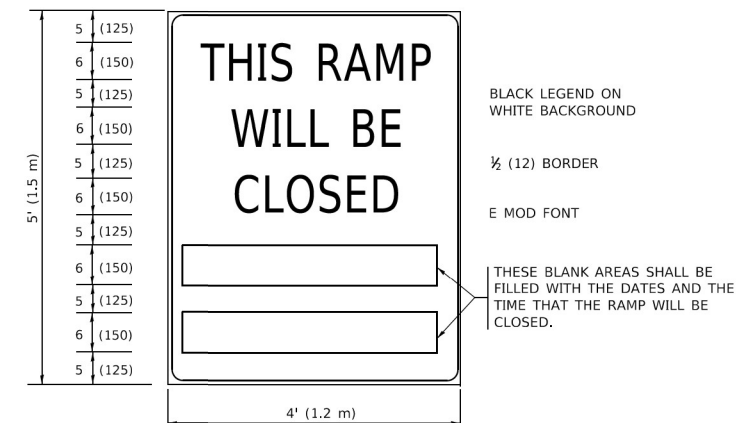
DETAIL FOR REQUIRED BARRICADES & SIGNS

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



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

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.

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DEPARTMENT OF TRANSPORTATION

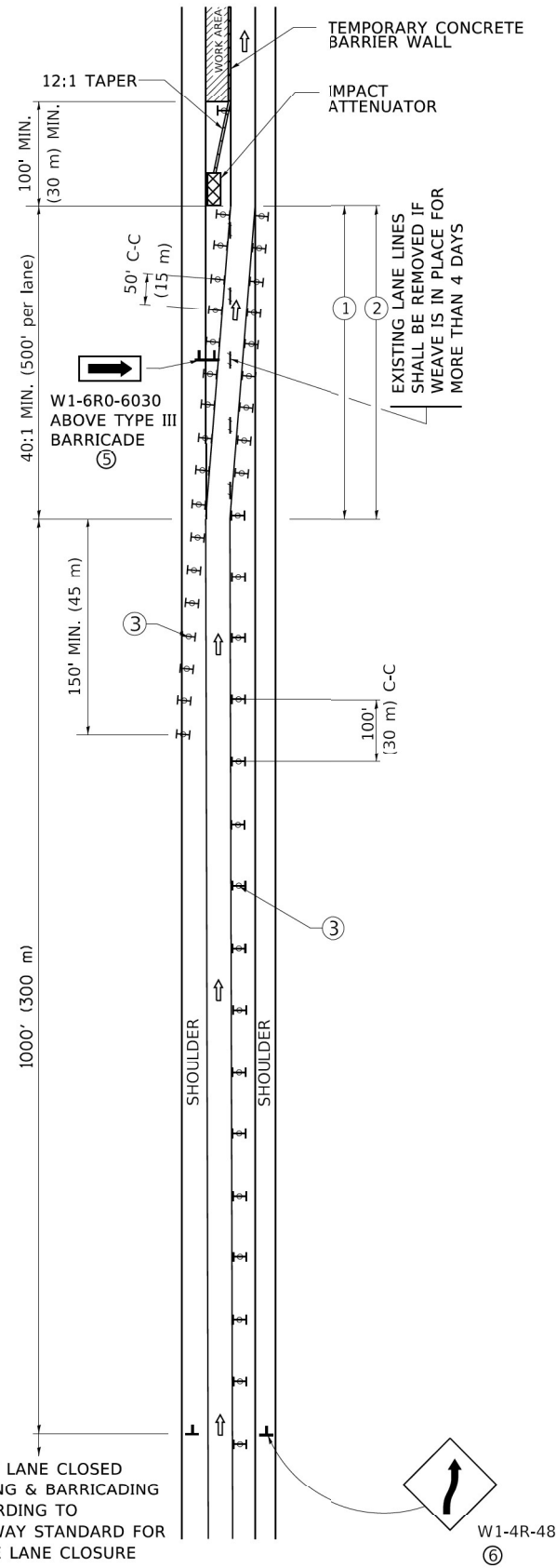
ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
STRUCTURE NO. 016-1056

SCALE NONE SHEET 2 OF 9 SHEETS

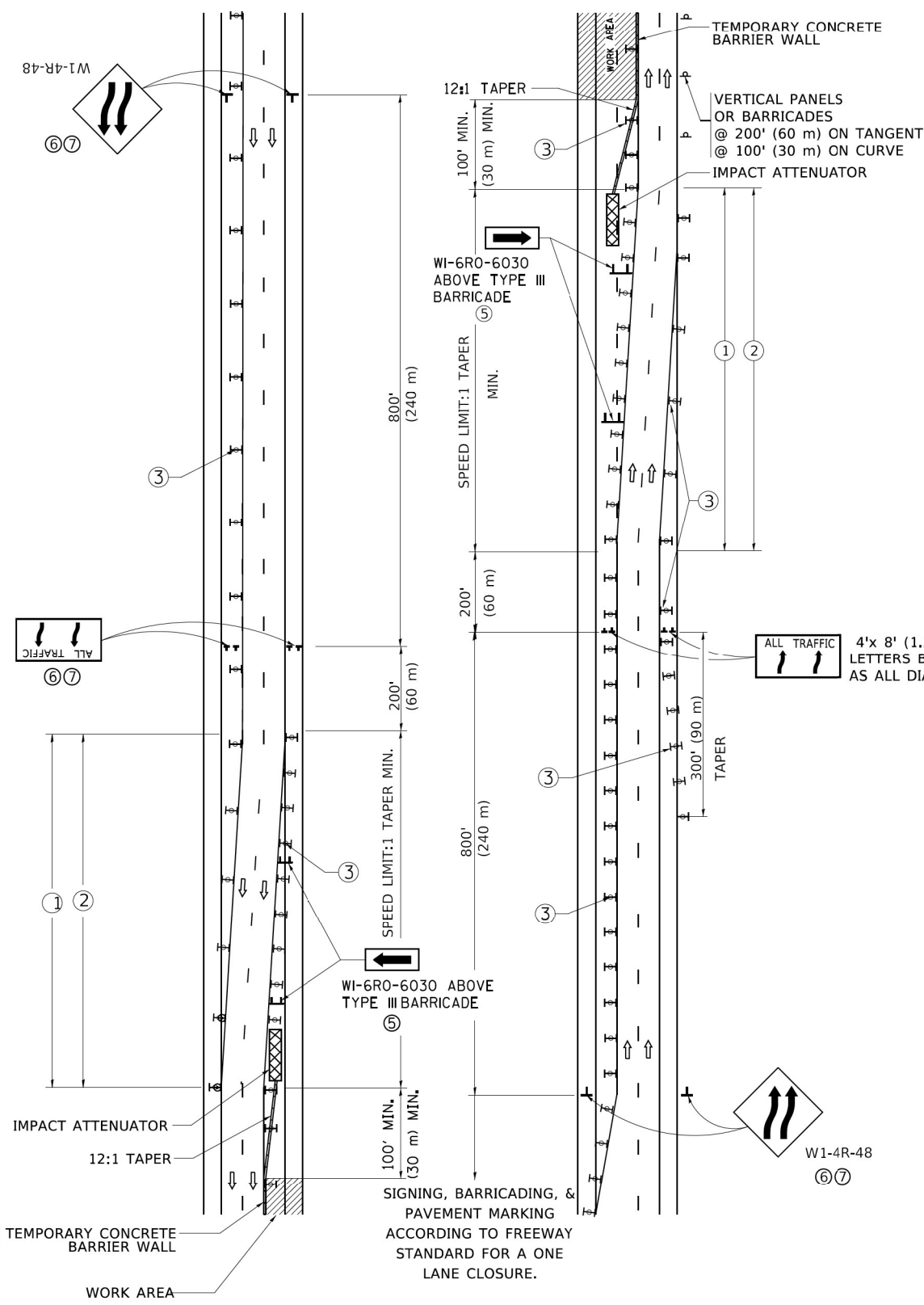
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	22
CONTRACT NO. 62U63				

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SINGLE LANE WEAVE



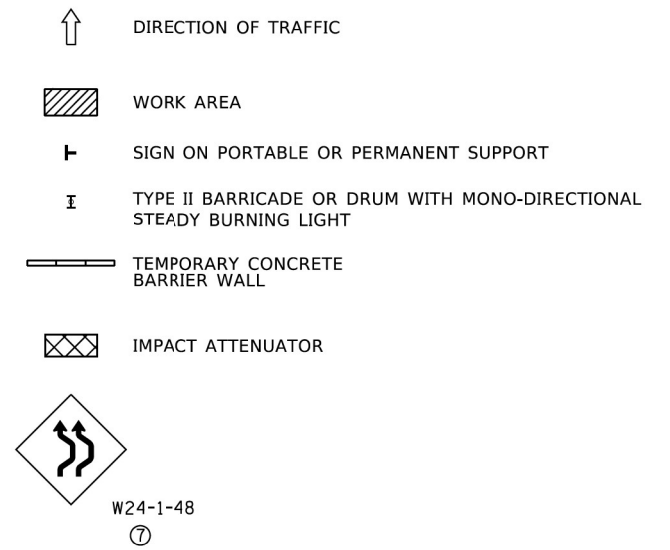
MULTI-LANE WEAVE



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.

SYMBOLS



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CTRL. DET. FOR FREEWAY SINGLE & MULTI-LANE WEAVE
STRUCTURE NO. 016-1056

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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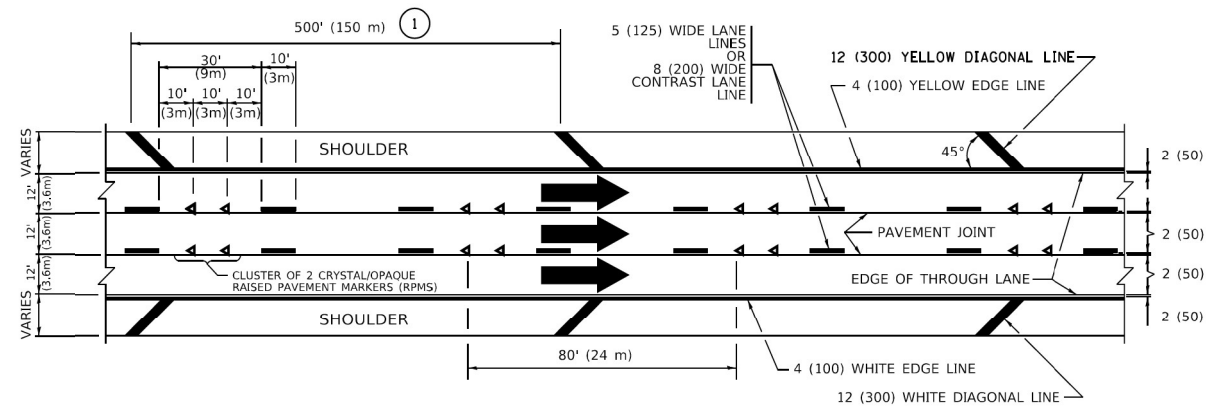


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SCALE NONE	SHEET 3 OF 9 SHEETS
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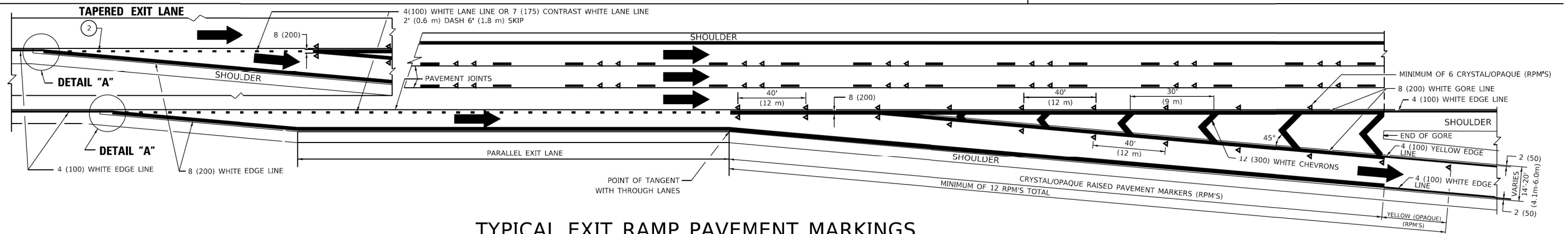
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55	FAI 55 22 DECK OVERLAY	COOK	29	23
CONTRACT NO. 62U63				
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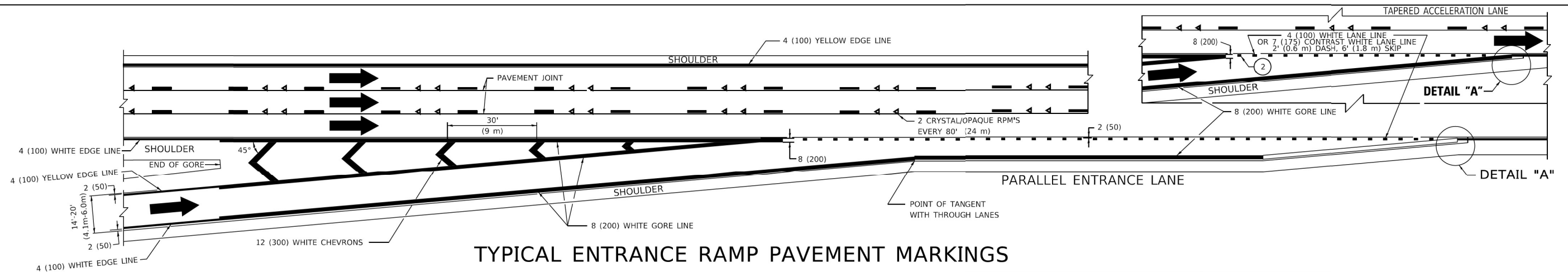
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

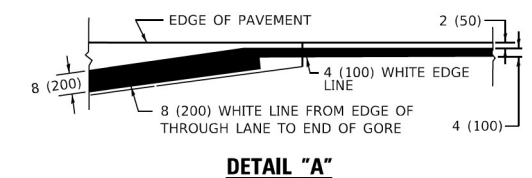
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE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



TYPICAL EXIT RAMP PAVEMENT MARKINGS

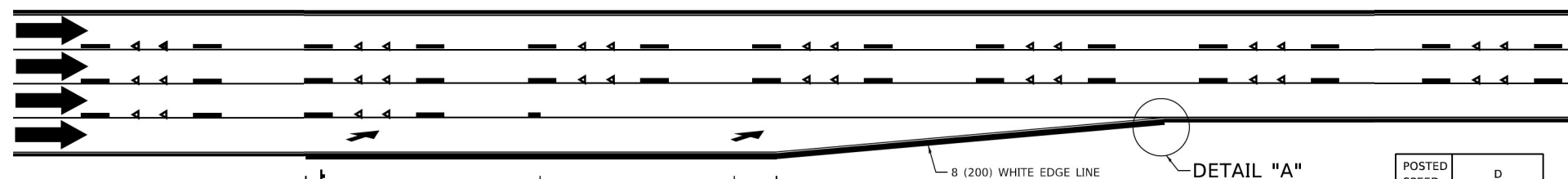


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



NOTES:

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



LANE REDUCTION PAVEMENT MARKINGS

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



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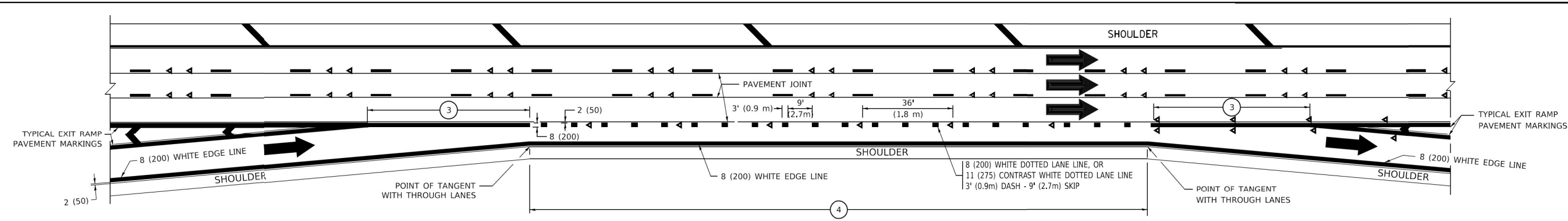
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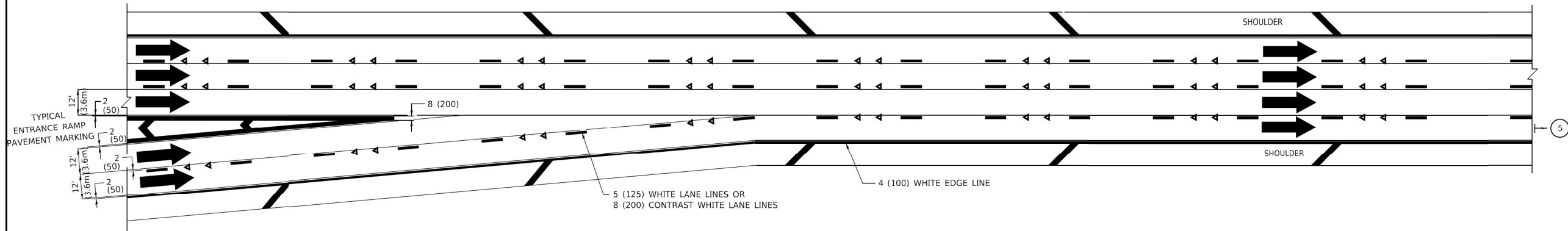
MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)
STRUCTURE NO. 016-1056

SCALE NONE SHEET 4 OF 9 SHEETS

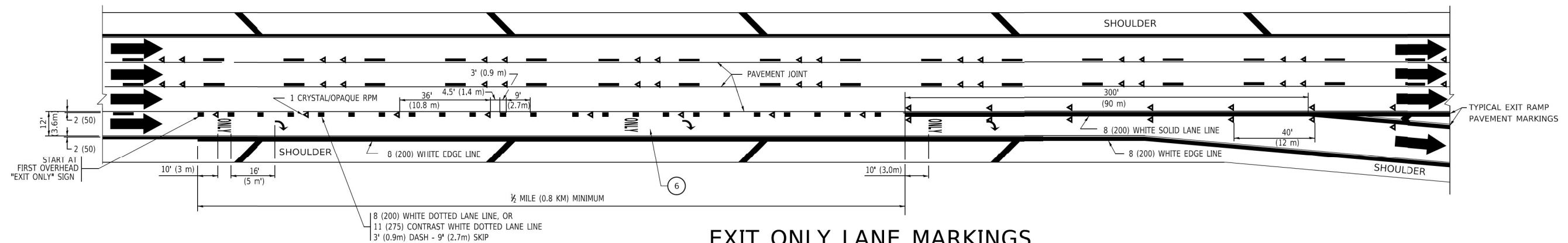
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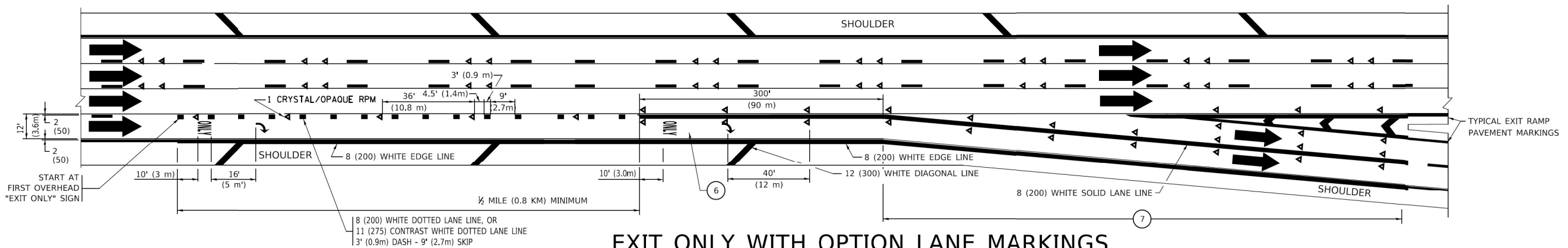
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

NOTES:

- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
- ④ 8-INCH WIDE DOTTED LANE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
- ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
- ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
- ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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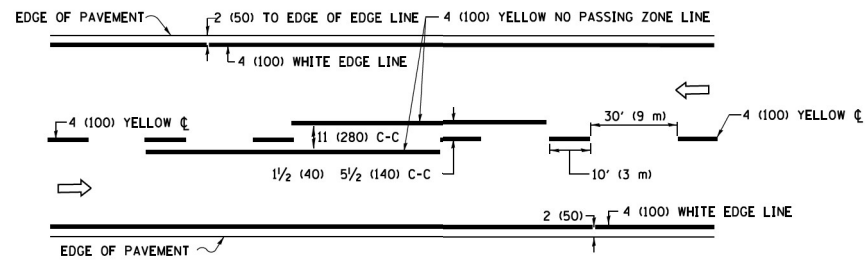
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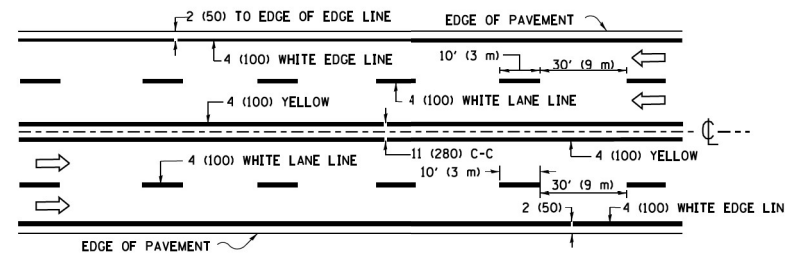
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MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)
STRUCTURE NO. 016-1056

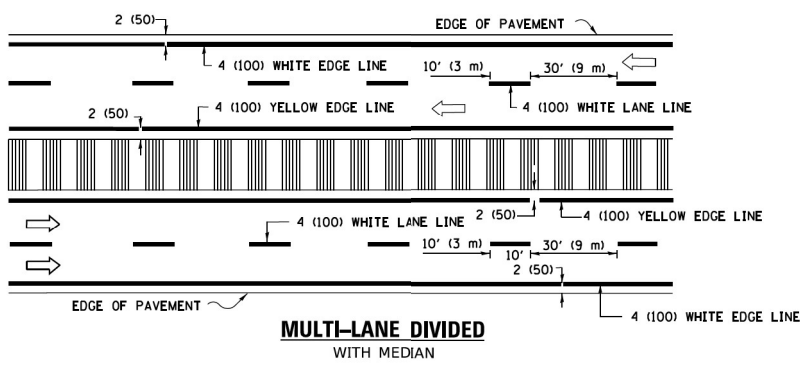
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	25
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2-LANE ROADWAY

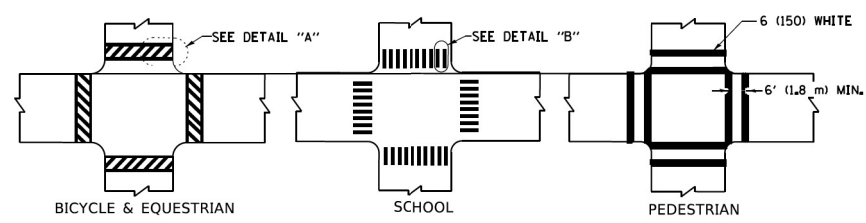


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

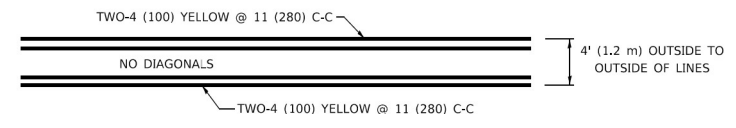


DETAIL "A"

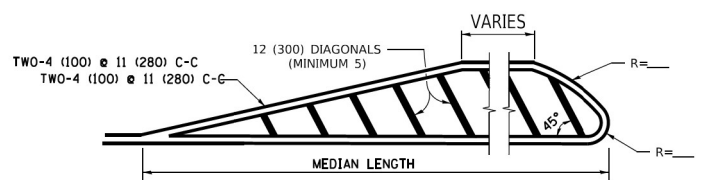
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

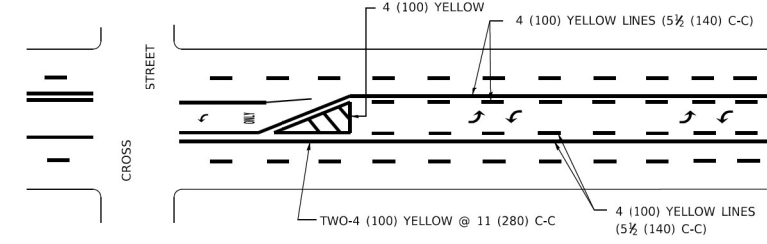


4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

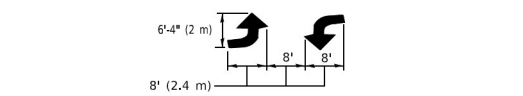
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

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

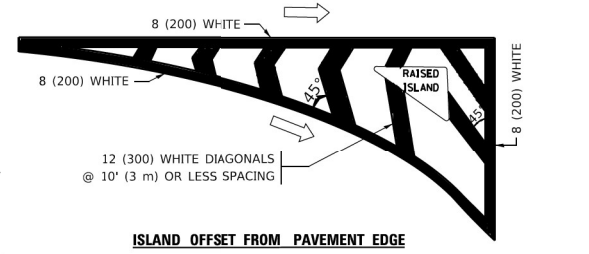


TYPICAL LEFT (OR RIGHT) TURN LANE

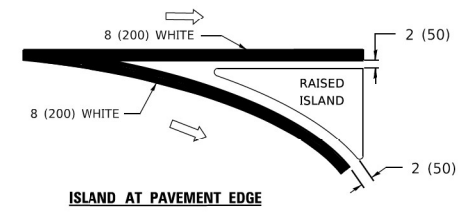
TYPICAL TURN LANE MARKING

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

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

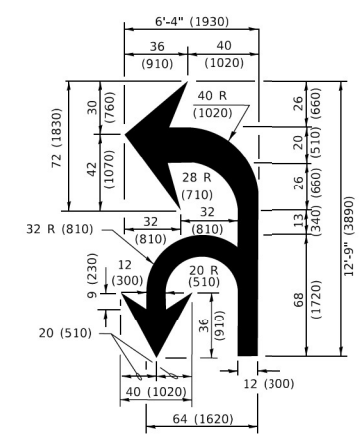


ISLAND OFFSET FROM PAVEMENT EDGE

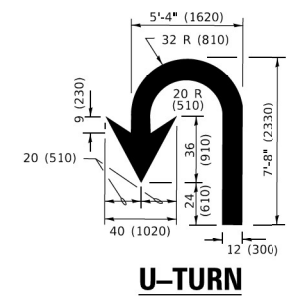


ISLAND AT PAVEMENT EDGE

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	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 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 SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R* = 3.6 SQ. FT. (0.33 m ²) EACH *X* = 34.0 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.

FILE NAME: \\abna\jobfiles\2022\160411\WO_7\CAD_Sheets\162U63-016-SHT-5TDS.dgn



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	CHECKED - 12.19.2022	REVISED -

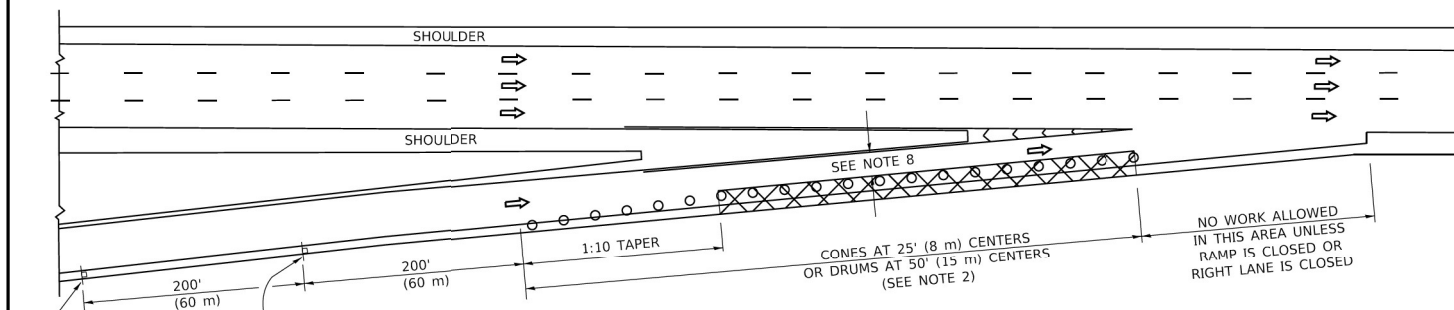
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
STRUCTURE NO. 016-1056

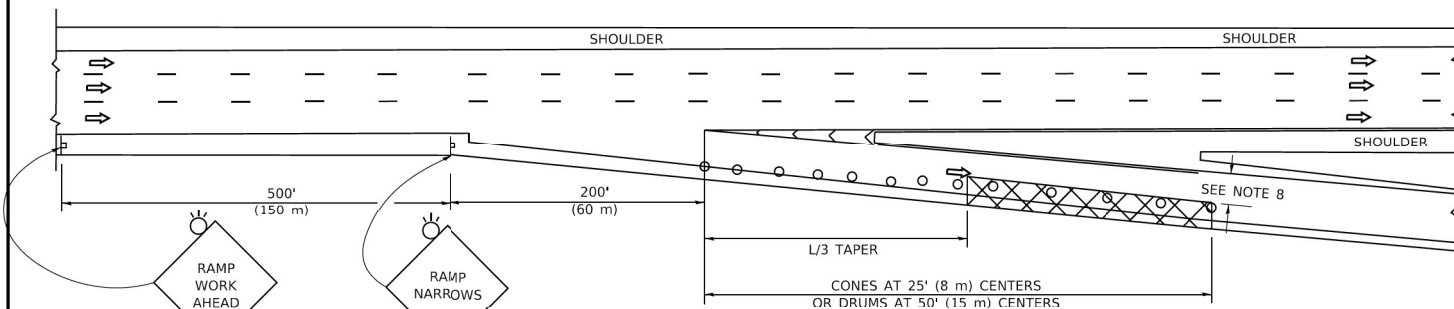
SCALE NONE SHEET 6 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	26
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				

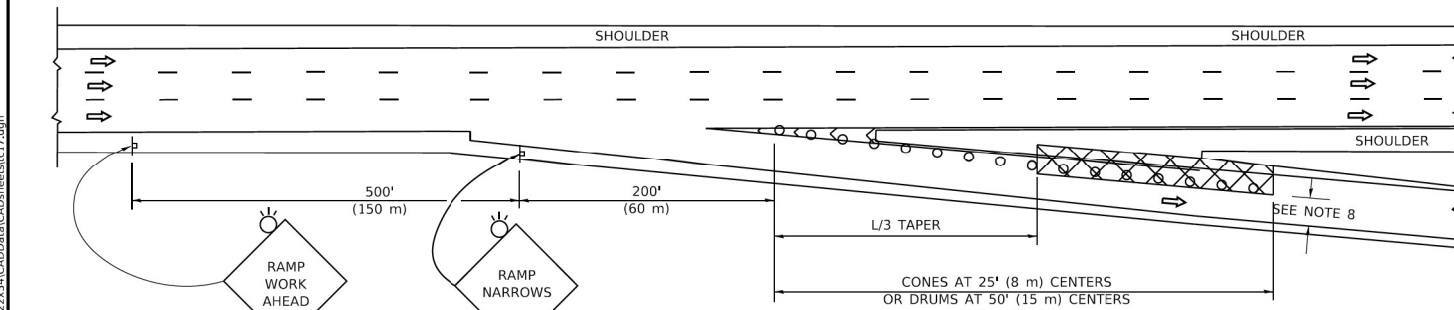
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

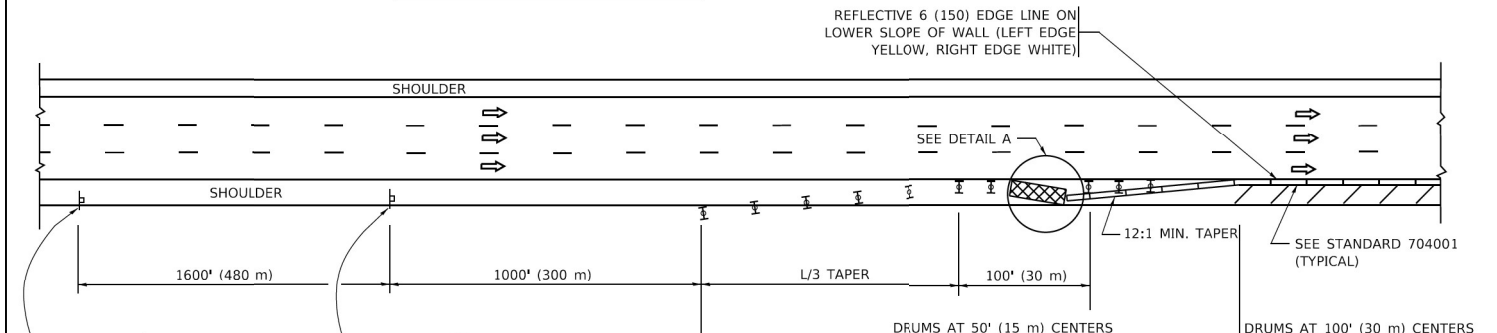
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

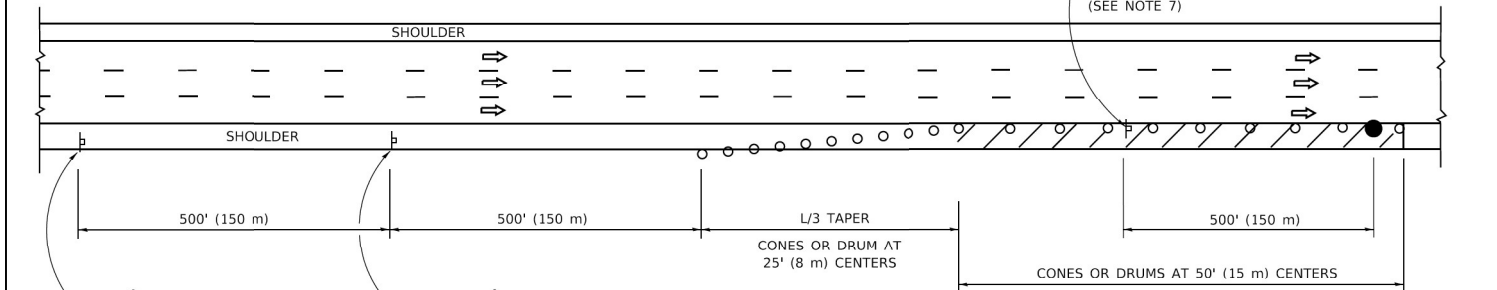
1. THE "L" DISTANCE EQUALS:

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)	
2. 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.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

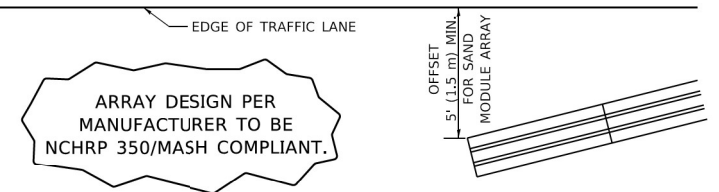


PERMANENT SHOULDER CLOSURE



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)

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

FILE NAME: \\abna\jobfiles\2023\6041\WO_7\CAD_Sheets\162U63-016-SHT-5TDS.dgn
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ABNA
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	CHECKED - 12.19.2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR. CTRL. DET. FOR FW. SHD. CLOSURES & PARTIAL R. CLOSURES
STRUCTURE NO. 016-1056

SCALE NONE SHEET 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	27
CONTRACT NO. 62U63				
ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

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

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

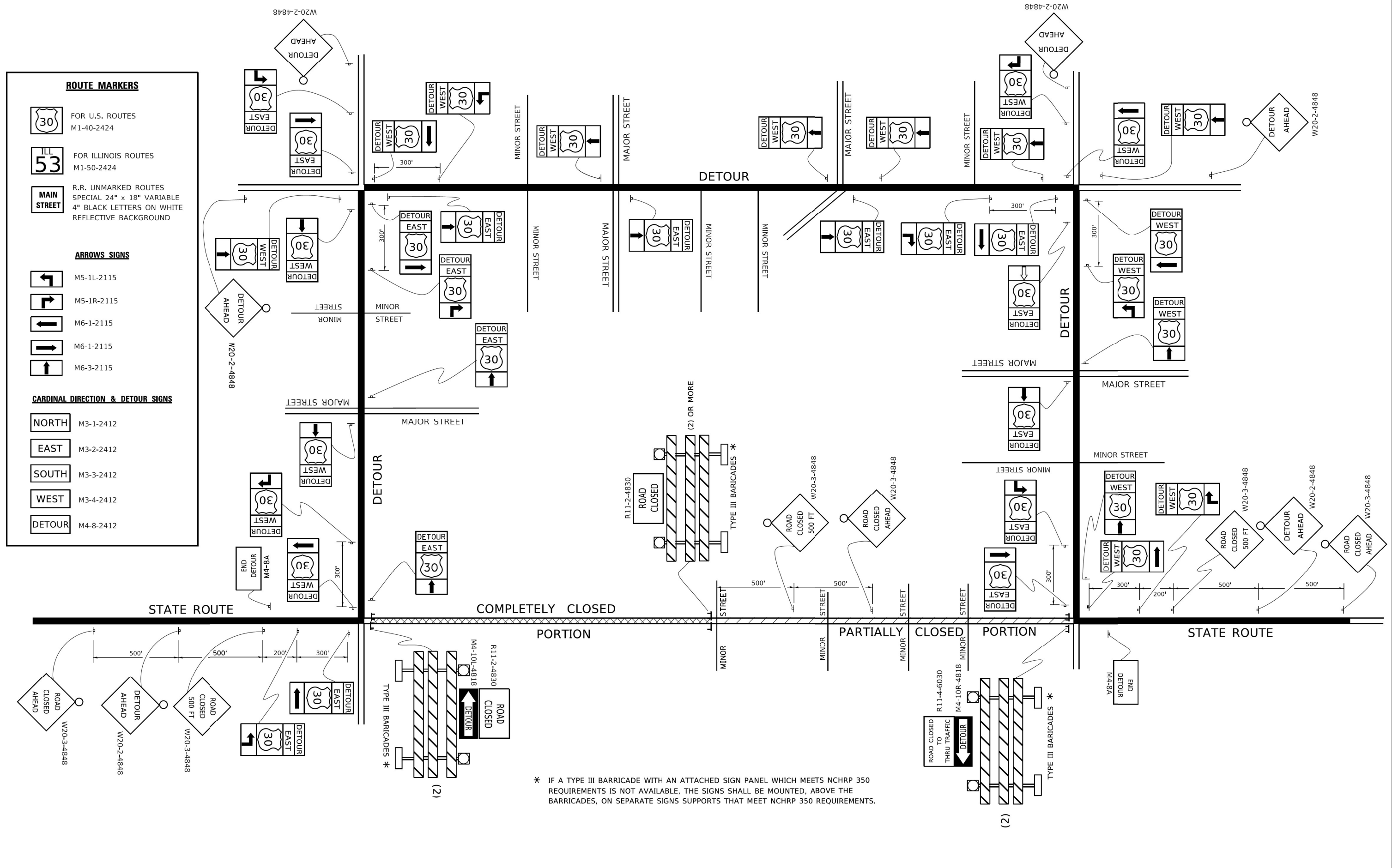
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



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

FILE NAME: \\abna\jobfiles\2022\60411\WO_7\CAD_Sheets\162U63-016-SHT-STD5.dgn

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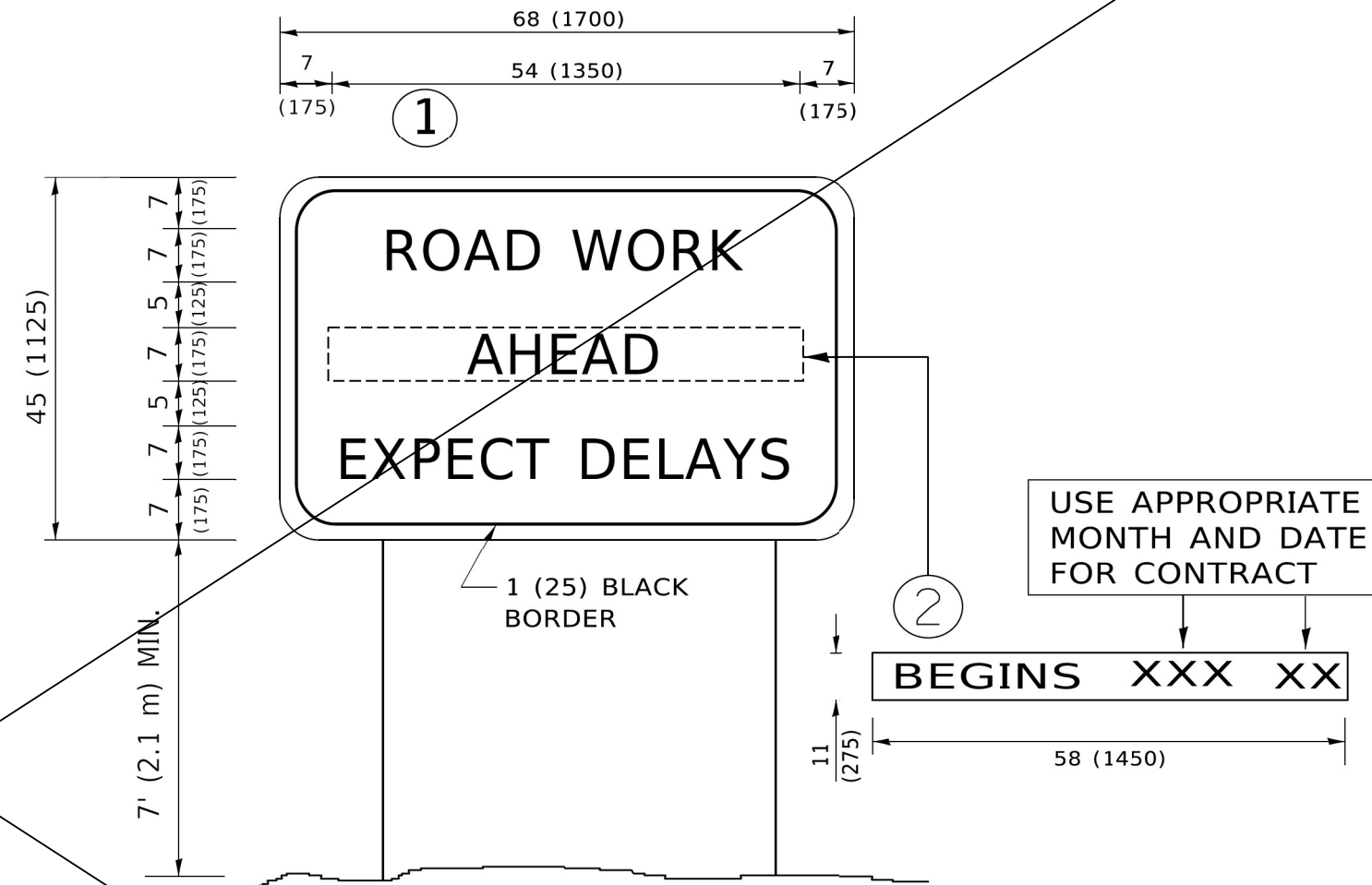
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
STRUCTURE NO. 016-1056**

SCALE NONE SHEET 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	28
CONTRACT NO. 62U63				
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 (TC-22)
STRUCTURE NO. 016-1056

SCALE NONE SHEET 9 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 DECK OVERLAY	COOK	29	29
			CONTRACT NO. 62U63	
		ILLINOIS FED. AID PROJECT		