

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	2019-040-BR	COOK	25	1
ILLINOIS			CONTRACT NO. 62J18	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE CITY OF CHICAGO

TRAFFIC DATA:

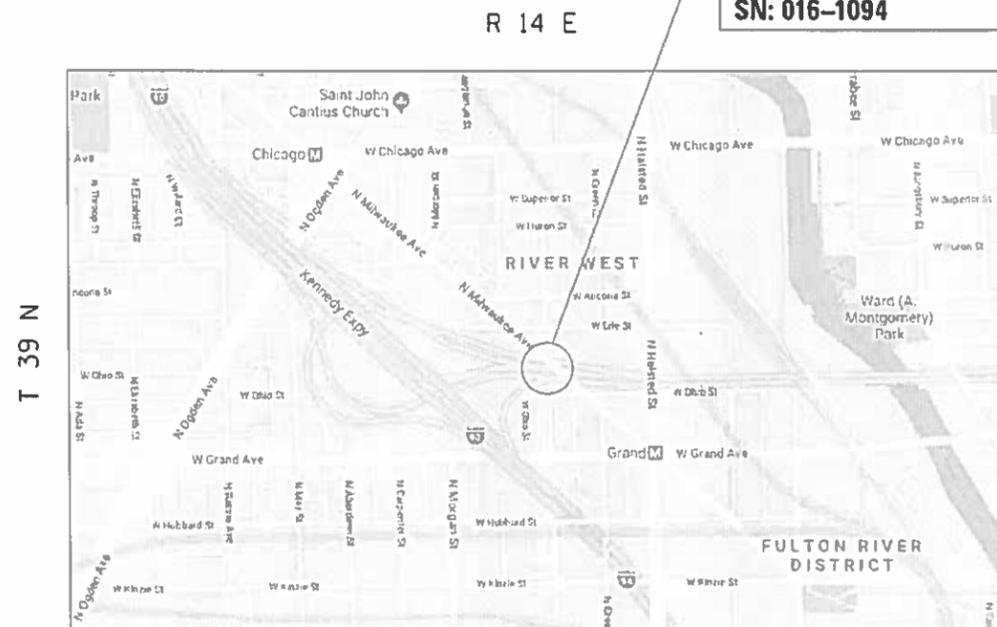
I-90/94 (KENNEDY EXPWY.)
2018 ADT = 292,200
POSTED SPEED LIMIT = 55MPH

OHIO FEEDER
2018 ADT = 92,000
POSTED SPEED LIMIT = 55MPH

**PROPOSED
HIGHWAY PLANS**
FAI ROUTE 90/94: I-90/94 (KENNEDY EXPRESSWAY)
OHIO FEEDER AT MILWAUKEE AVENUE
SECTION: 2019-040-BR
PROJECT:
BRIDGE REPAIRS (SUBSTRUCTURE REPAIRS)
COOK COUNTY
C-91-373-19



IMPROVEMENT LOCATION:
OHIO FEEDER AT N. MILWAUKEE AVE.
SN: 016-1094



C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62J18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: June 24 2019

Anthony J. Quigley / *AKB*
REGIONAL ENGINEER

Aug 16 2019
ENGINEER OF DESIGN AND ENVIRONMENT

Paul J. [Signature]
DIRECTOR OF PROJECTS PROGRAM IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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STATE STANDARDS

STANDARD NO. DESCRIPTION

643001-02	SAND MODULE IMPACT ATTENUATORS
701106-02	OFF-ROAD 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, MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >=45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF CHICAGO.
3. 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 BASED AT THE UNIT PRICE BID FOR THE WORK.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. 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.
6. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM AT LEAST 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. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS AND HOLIDAYS.
7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
8. 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.
9. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
10. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN WORKING NEAR THE ABUTMENTS DUE TO ELECTRICAL JUNCTIONS BOXES AND ATTACHED CONDUITS.
11. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
13. CONTRACTOR SHALL CONTACT IDOT TRAFFIC SYSTEM CENTER AT 708-588-2544 BEFORE PERFORMING ANY WORK.

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	PLOT DATE = 6/27/2019				SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		100% STATE 016-1094 0013						CODE NO	ITEM		UNIT	100% STATE 016-1094 0013				
50300225	CONCRETE STRUCTURES	CU YD	18.5	18.5					* 78004358	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 8"	FOOT	153	153					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4010	4010					* 78004362	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 12"	FOOT	15	15					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					* 78100300	REPLACEMENT REFLECTOR	EACH	10	10					
67100100	MOBILIZATION	L SUM	1	1					* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	30	30					
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1					* 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	200	200					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	2457	2457					* 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	630	630					
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	4955	4955					* 81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	11	11					
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	947	947					* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2000	2000					
70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	174	174					* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1500	1500					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350					X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	138	138					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	150	150						* SPECIALTY ITEMS								
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2														
70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1	1														
* 78004355	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 5"	FOOT	50	50														

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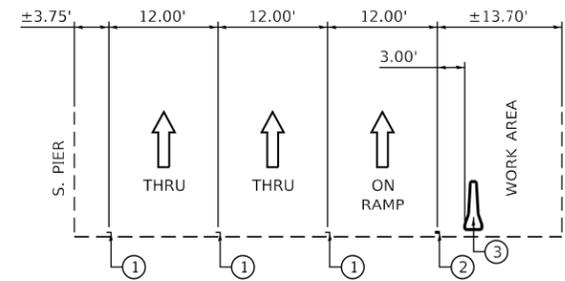
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	(SHEET NO. OF SHEETS)	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62J18				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

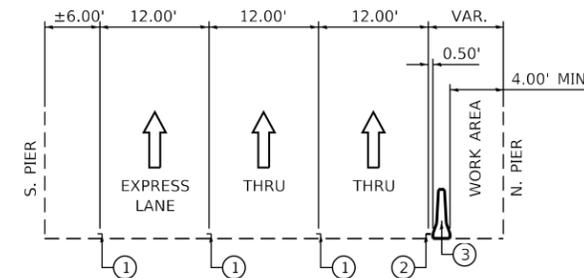
MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO THROUGH LANES IN EACH DIRECTION THROUGH OUT THE PROJECT AREA AT ALL TIMES.
4. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISION 'LIGHTS ON BARRICADES'.
5. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
7. ONE MONO-DIRECTIONAL FLASHING AMBER BEACON SHALL BE MOUNTED TO THE FIRST TWO WARNING SIGNS ON EACH APPROACH. THE FLASHING AMBER BEACON SHALL BE OPERATIONAL DURING HOURS OF DARKNESS.
8. ALL TEMPORARY CONCRETE BARRIER WALL AND TEMPORARY IMPACT ATTENUATORS MUST BE SEATED ON BARE, CLEAN PAVEMENT OR PAVED SHOULDER.
9. THE TRAFFIC SIGNAL ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS.
10. THE CONTRACTOR SHALL CONTACT THE IDOT D1 TRAFFIC CONTROL SUPERVISOR AT (847) 705-4157 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.



STAGE I E.B. - MILWAUKEE

(LOOKING EAST)



STAGE I W.B. - MILWAUKEE

(LOOKING WEST)

SUGGESTED STAGES OF CONSTRUCTION SEQUENCE

STAGE I

ESTABLISH TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE SUGGESTED MAINTENANCE OF TRAFFIC CONTROL PLANS. CONSTRUCT SUBSTRUCTURE REPAIRS ON SOUTH ABUTMENT AND NORTH PIER OF THE MILWAUKEE BRIDGE.

STAGE II

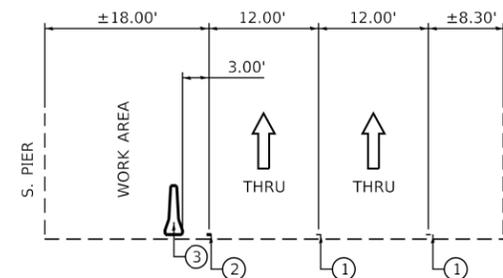
ESTABLISH TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE SUGGESTED MAINTENANCE OF TRAFFIC CONTROL PLANS. CONSTRUCT SUBSTRUCTURE REPAIRS ON SOUTH PIER OF MILWAUKEE BRIDGE.

POST-STAGE

INSTALL PERMANENT PAVEMENT MARKINGS AND REFLECTORS, PERFORM CLEAN UP AND PUNCH LIST ITEMS.

LEGEND

- ① EX PAVEMENT MARKING
- ② PR TEMP PAVEMENT MARKING
- ③ PR TEMP CONC BARRIER



STAGE II W.B. - MILWAUKEE

(LOOKING WEST)

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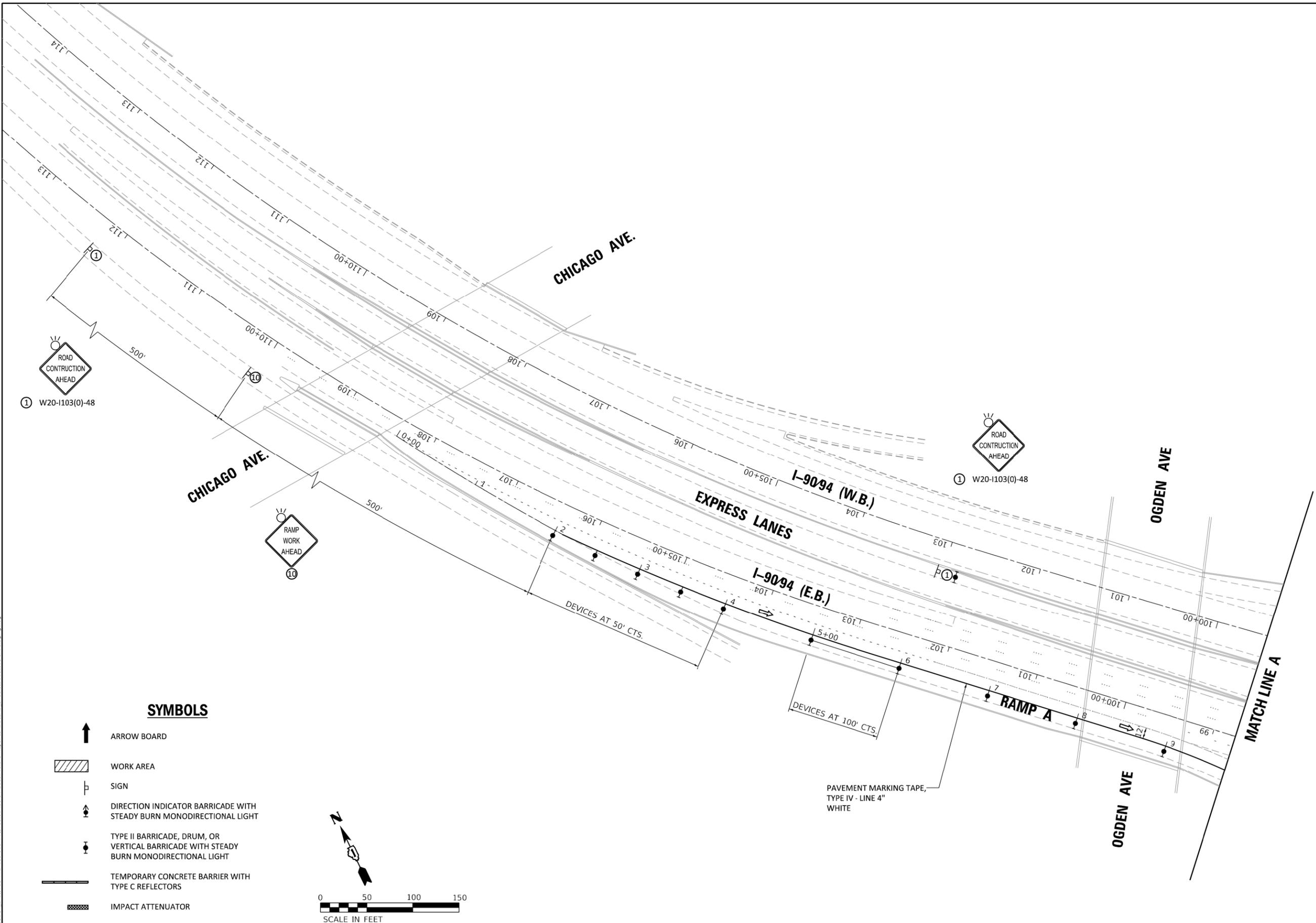
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

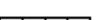
**TRAFFIC CONTROL STAGING NOTES
AND STAGING TYPICAL SECTIONS**

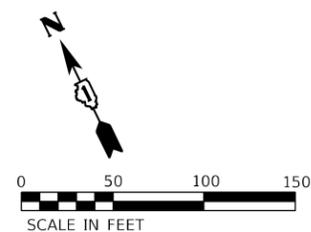
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CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				

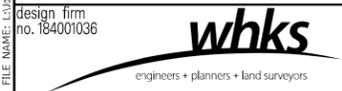


SYMBOLS

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER WITH TYPE C REFLECTORS
-  IMPACT ATTENUATOR



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE I			
SCALE: 1" = 50'	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	6
CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				

MATCH LINE A

I-9094 (W.B.)

I-9094 (E.B.)

MATCH LINE B

WORK ZONE	W2-1115(0)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108p-3618
\$375 FINE MINIMUM	R2-1106p-3618
③	

WORK ZONE	W2-1115(0)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108p-3618
\$375 FINE MINIMUM	R2-1106p-3618
③	

SPEED LIMIT	45
②	W3-5(0)-48

RIGHT SHOULDER CLOSED AHEAD	④	W21-56R
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PAVEMENT MARKING TAPE, TYPE IV - LINE 4" WHITE

PAVEMENT MARKING TAPE, TYPE IV - LINE 4" WHITE

SYMBOLS

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER WITH TYPE C REFLECTORS
-  IMPACT ATTENUATOR



DEVICES AT 100' CTS.

RAMP A

EXPRESS LANES

I-9094 (W.B.)

I-9094 (E.B.)

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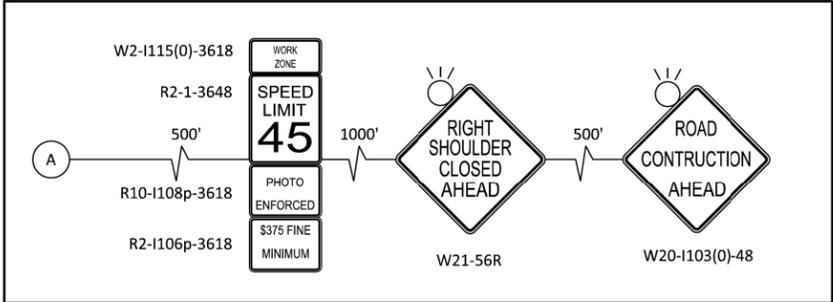


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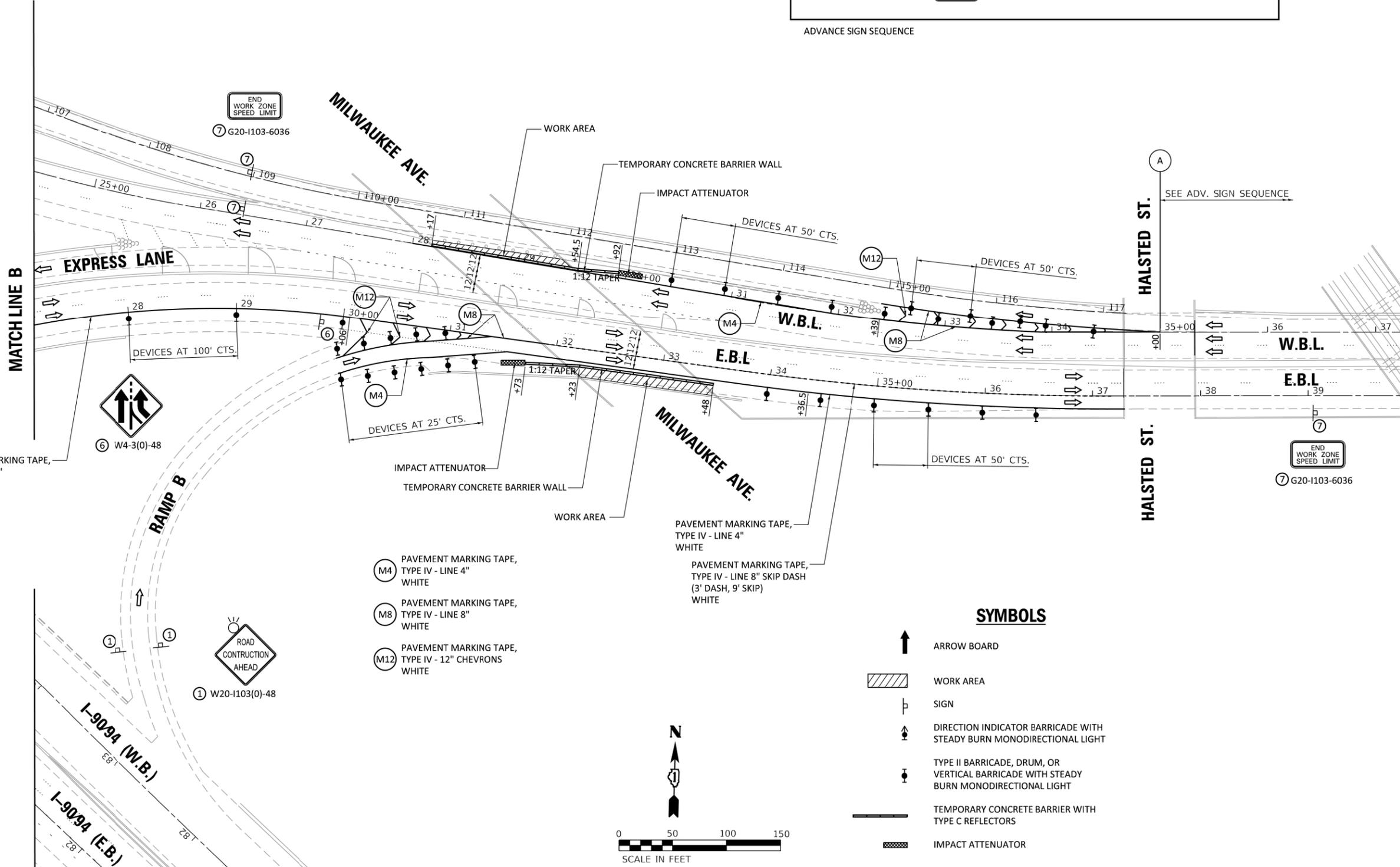
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE I			
SCALE: 1" = 50'	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	7
CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				



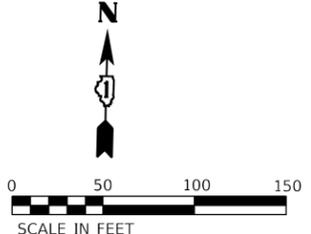
ADVANCE SIGN SEQUENCE



- (M4) PAVEMENT MARKING TAPE, TYPE IV - LINE 4" WHITE
- (M8) PAVEMENT MARKING TAPE, TYPE IV - LINE 8" WHITE
- (M12) PAVEMENT MARKING TAPE, TYPE IV - 12" CHEVRONS WHITE

SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER WITH TYPE C REFLECTORS
- IMPACT ATTENUATOR



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design firm
 no. 184001036
 engineers + planners + land surveyors

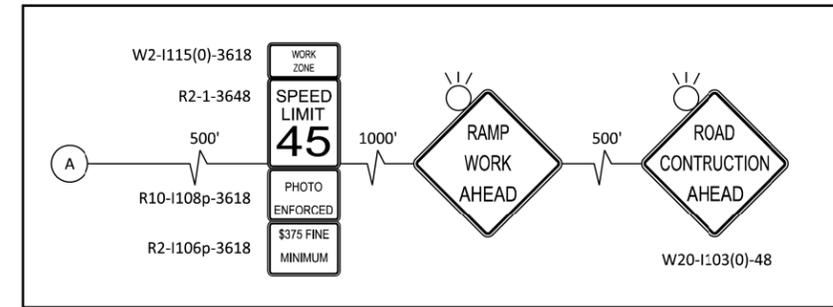
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

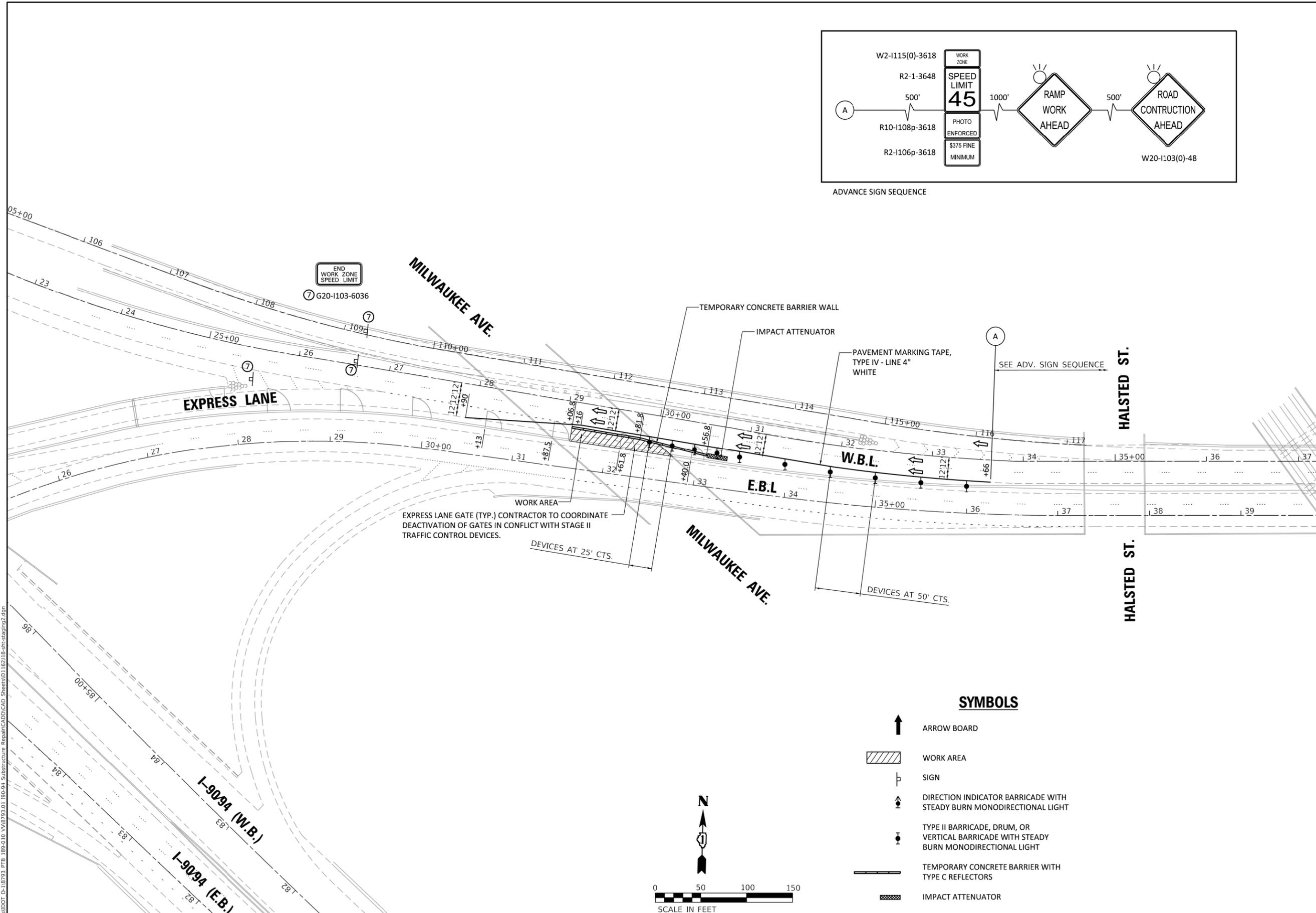
**SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL STAGE I**

SCALE: 1" = 50'	SHEET 3	OF 3	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	8
CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				

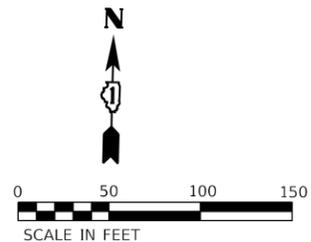


ADVANCE SIGN SEQUENCE



SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER WITH TYPE C REFLECTORS
- IMPACT ATTENUATOR



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design firm
 no. 184001036

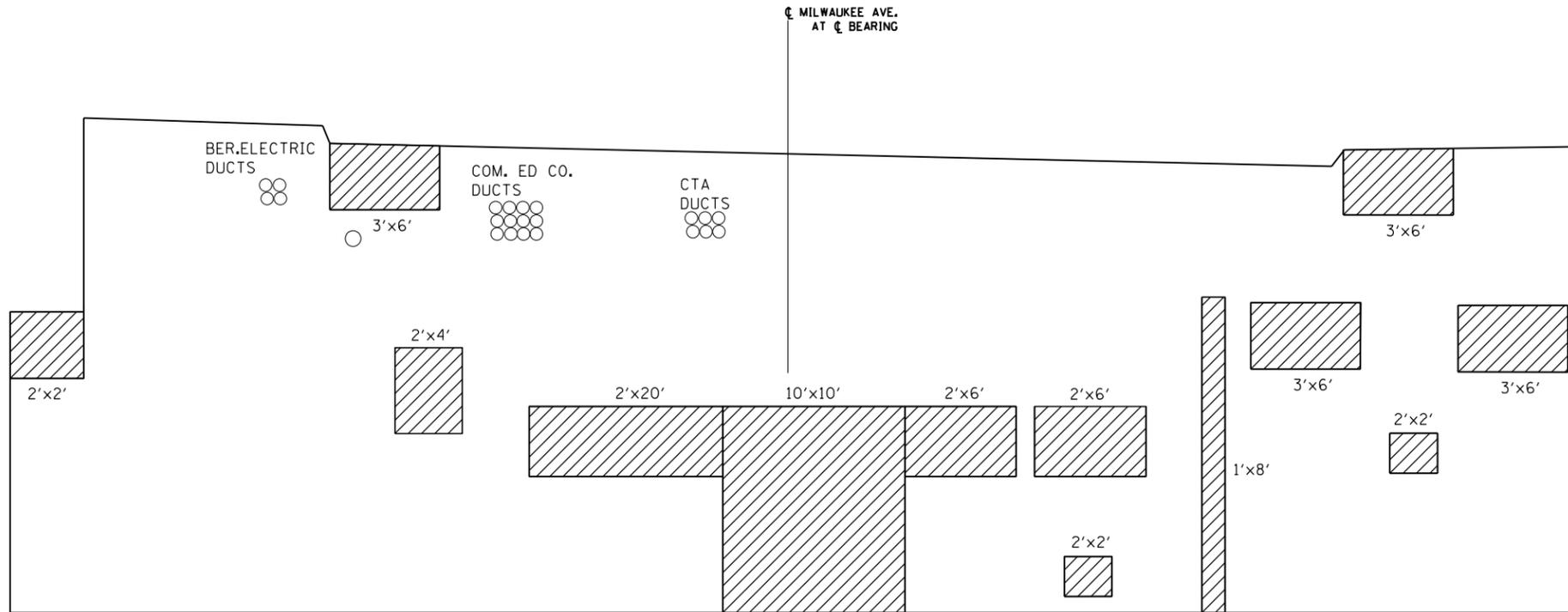
 engineers + planners + land surveyors

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	CHECKED - SDS	REVISED
FLOT SCALE = 100.0000' / in.	DRAWN - GSI	REVISED
FLOT DATE = 5/29/2019	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE II			
SCALE: 1" = 50'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	9
CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				



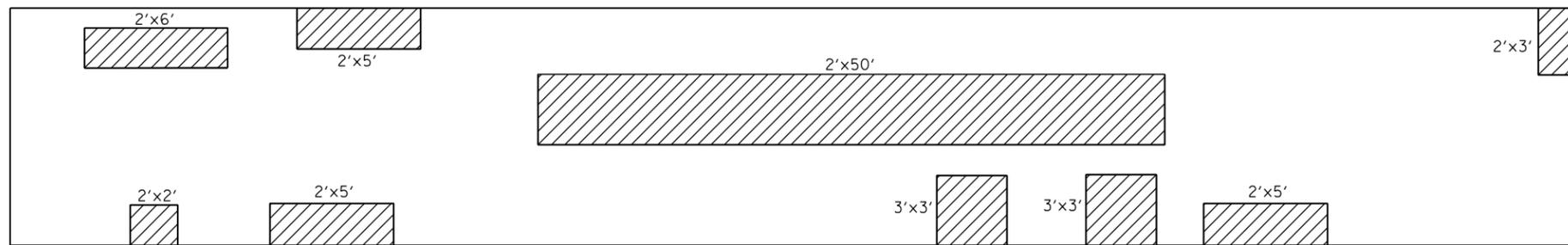
**EAST ABUTMENT
SOUTH FACE**

LEGEND:

STRUCTURAL REPAIR OF CONCRETE DEPTH ≤5"

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤5"	SQ.FT.	264



APPROACH BENT

LEGEND:

STRUCTURAL REPAIR OF CONCRETE DEPTH ≤5"

BILL OF MATERIALS (APPROACH BENT)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤5"	SQ.FT.	170

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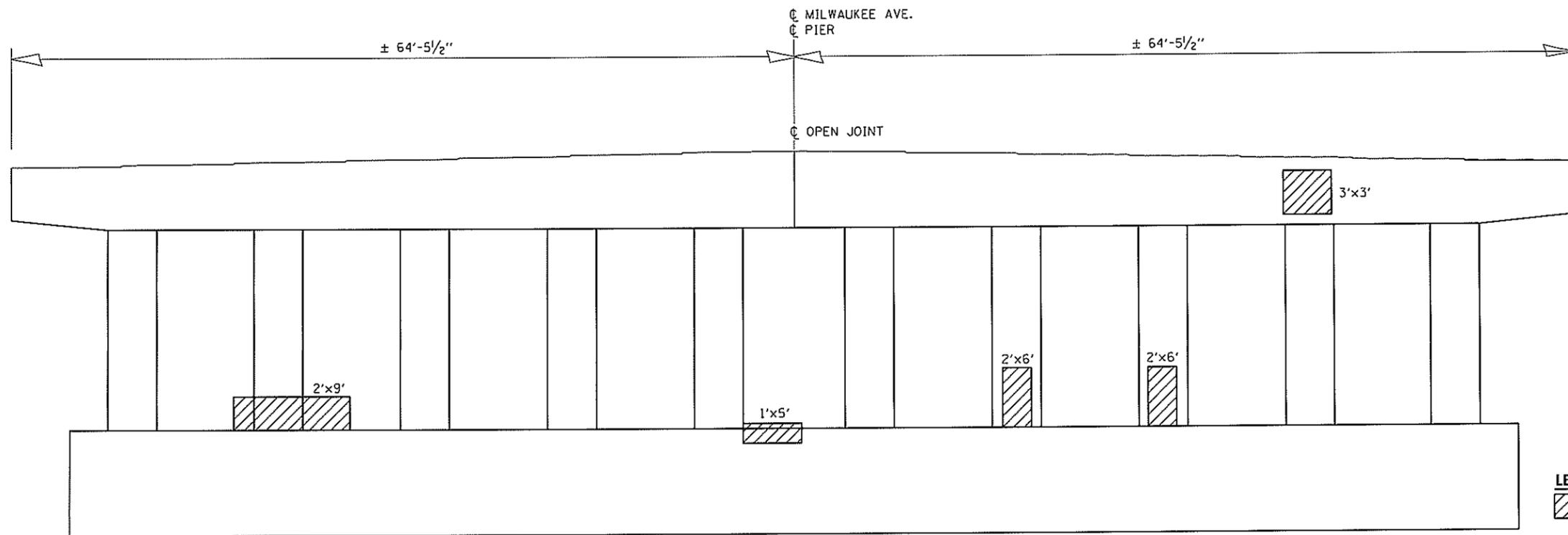
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE OVER OHIO FEEDER
EAST ABUTMENT AND APPROACH BENT
S.N. 016-1094**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62J18	

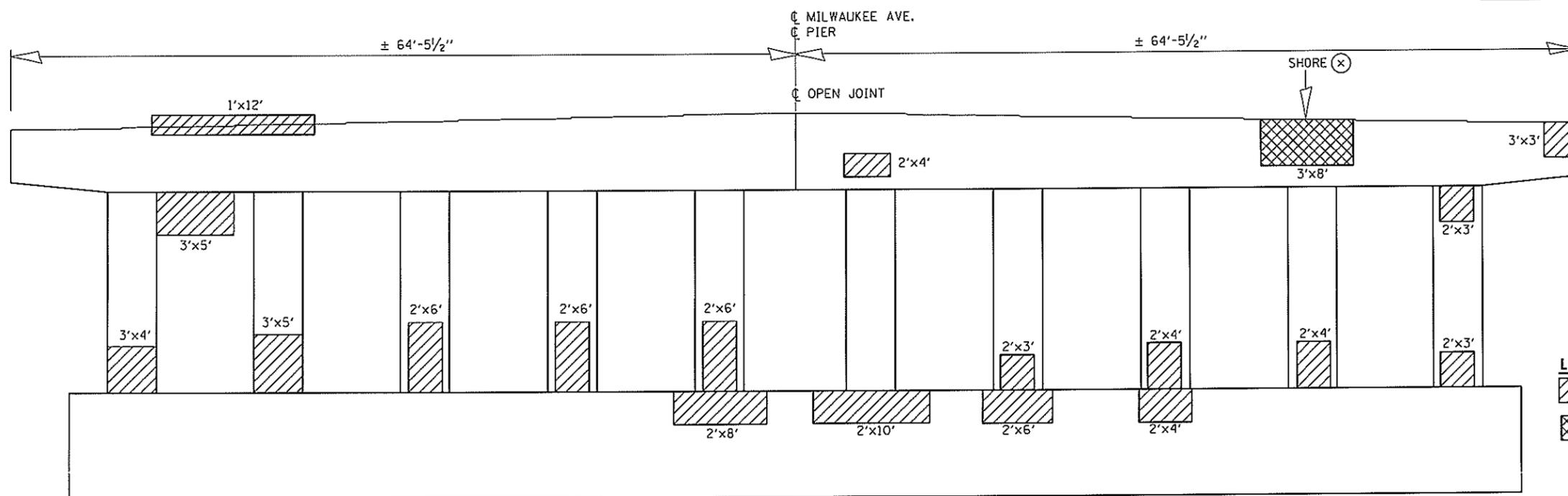


**PIER 2
NORTH FACE**

LEGEND:
 STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"

BILL OF MATERIALS (NORTH FACE)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"	SO.FT.	56



**PIER 2
SOUTH FACE**

LEGEND:
 STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"
 STRUCTURAL REPAIR OF CONCRETE DEPTH > 5"

⊗ TEMPORARY SHORING AND CRIBBING

REACTION TABLE

R DL (k)	107
R LL (k)	49
Imp. (k)	12
R Total (k)	168

BILL OF MATERIALS (SOUTH FACE)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"	SO.FT.	197
STRUCTURAL REPAIR OF CONCRETE DEPTH > 5"	SO.FT.	24
TEMPORARY SHORING AND CRIBBING	EACH	1

PIER 2 IS LOCATED NEAR THE WEST ABUTMENT

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE OVER OHIO FEEDER
NORTH AND SOUTH FACE PIER 2 REPAIR
S.N. 016-1094**

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	13
CONTRACT NO. 62J18			ILLINOIS FED. AID PROJECT	

**BILL OF MATERIALS
EAST ABUTMENTS**

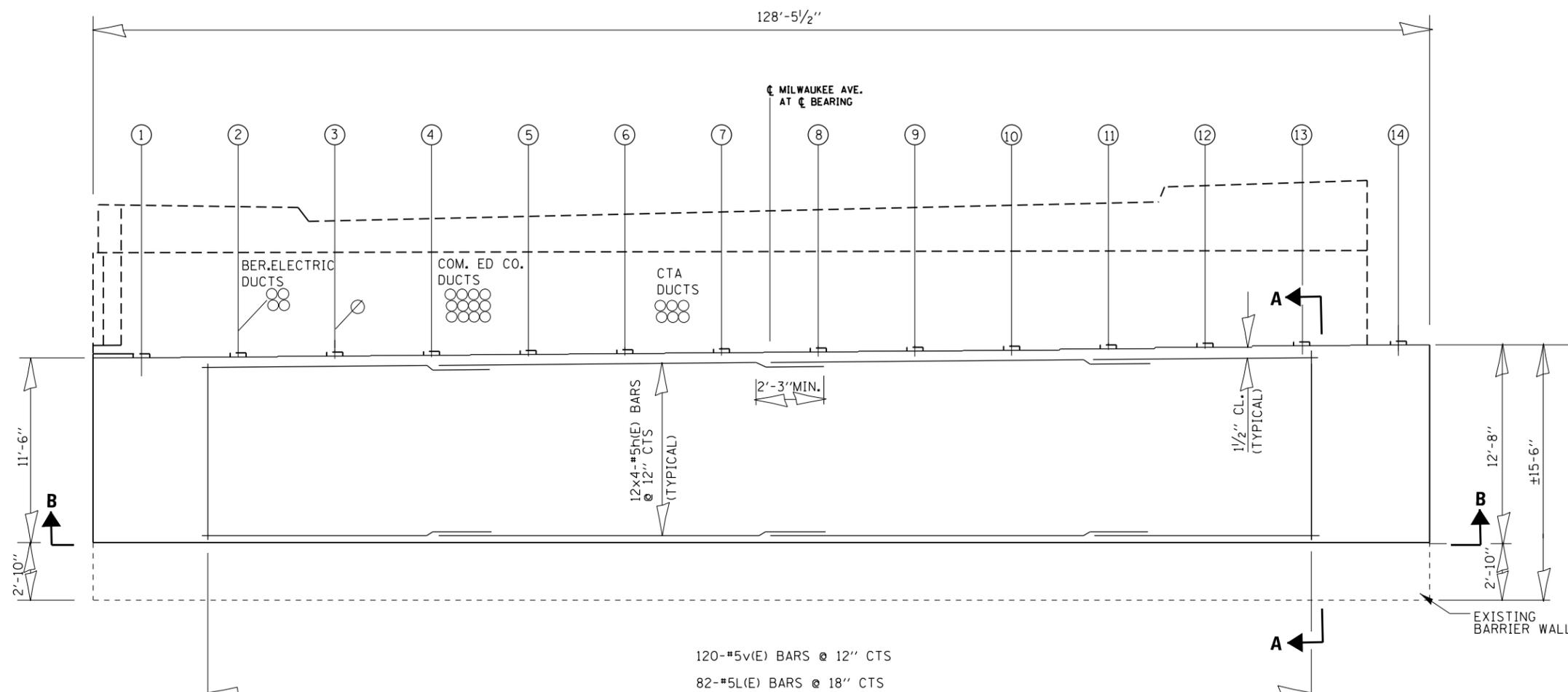
BAR	NO.	SIZE	LENGTH	SHAPE	
h(E)	48	#5	31'-6"	—	
L(E)	656	#5	1'-6"	┌	
v(E)	120	#5	11'-3"	—	
ITEM				UNIT	QUANTITY
REINFORCEMENT BARS (EPOXY COATED)				POUND	4010
CONCRETE STRUCTURE				CU.YD.	18.5

NOTES:

REFACE ABUTMENT

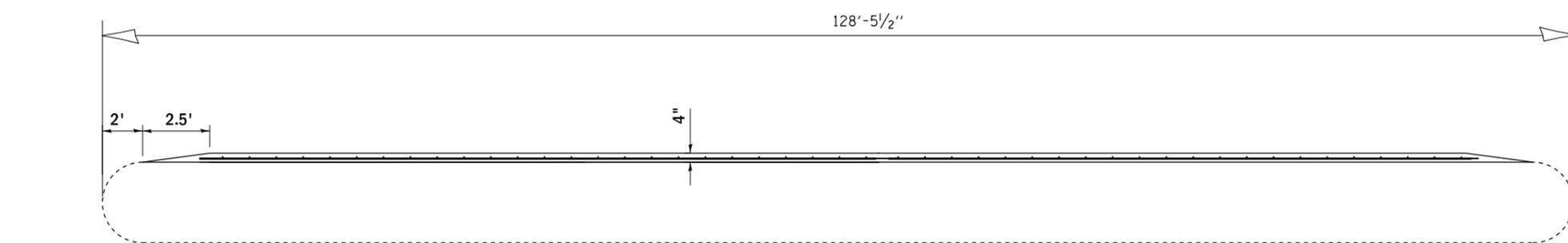
*5L(E) BARS SHALL BE EPOXY GROUTED ACCORDING TO ARTICLE 584 OF THE STANDARDS SPECIFICATIONS.

THE CONCRETE FOR THE STRUCTURAL REPAIR OF CONCRETE SHALL USE THE SAME MATERIAL AND BE POURED AT THE SAME TIME AS THE CONCRETE STRUCTURES. COST INCLUDED IN STRUCTURAL REPAIR OF CONCRETE.

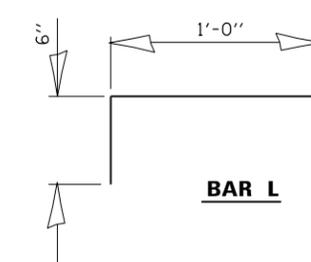


**EAST ABUTMENT
NORTH FACE**

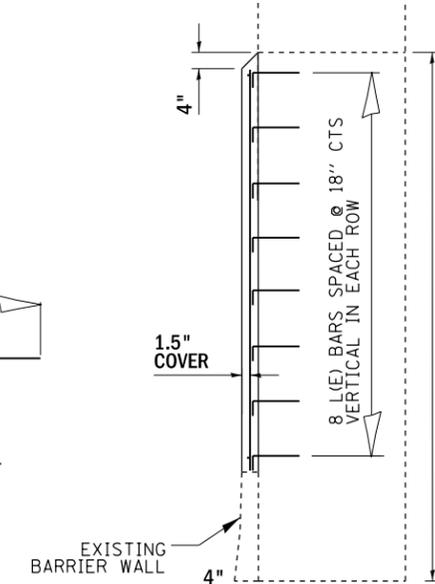
120-#5v(E) BARS @ 12" CTS
82-#5L(E) BARS @ 18" CTS



SECTION B-B



BAR L



SECTION A-A

PAID AS CONCRETE STRUCTURES
PAID AS STRUCTURAL REPAIR OF CONCRETE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE OVER OHIO FEEDER
EAST ABUTMENT REPAIR
S.N. 016-1094**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	14
CONTRACT NO. 62J18			ILLINOIS FED. AID PROJECT	

LIGHTING AND ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXISTING UNDERPASS LIGHTING TO REMAIN
	EXISTING JUNCTION BOX TO REMAIN
	EXISTING JUNCTION BOX TO BE REMOVED
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
	EXISTING UNDERGROUND UNIT DUCT TO REMAIN
	EXISTING CONDUIT ATTACHED TO STRUCTURE TO BE REMOVED
	PVC COATED, RGC, ATTACHED TO STRUCTURE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
E.O.P.	EDGE OF PAVEMENT
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSANGER WIRE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
U.G.C., GS	UNDERGROUND CONDUCT, GALVANIZED STEEL
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

GENERAL NOTES

THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

INDEX OF DRAWINGS:

DRAWING NO.	TITLE
LT-01	LEGEND, ABBREVIATIONS, GENERAL NOTES, SCHEDULE OF QUANTITIES AND INDEX OF DRAWINGS
LT-02	ELECTRIC CONDUIT RELOCATION PLAN WB ONTARIO ST MILWAUKEE AVE
LT-03	LIGHTING DETAILS
LT-04	IDOT-D1 STANDARDS (MISC. ELECTRICAL DETAILS SHEET A)
LT-05	IDOT-D1 STANDARDS (SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS)

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-900	SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	200
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	630
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	11
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1500
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2000
REMOVE EXISTING JUNCTION BOX	EACH	10
REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	300
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	2

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LEGEND, ABBREVIATIONS, GENERAL NOTES, SCHEDULE OF QUANTITIES AND
 INDEX OF DRAWINGS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 62J18
		ILLINOIS	FED. AID PROJECT	

LT-01

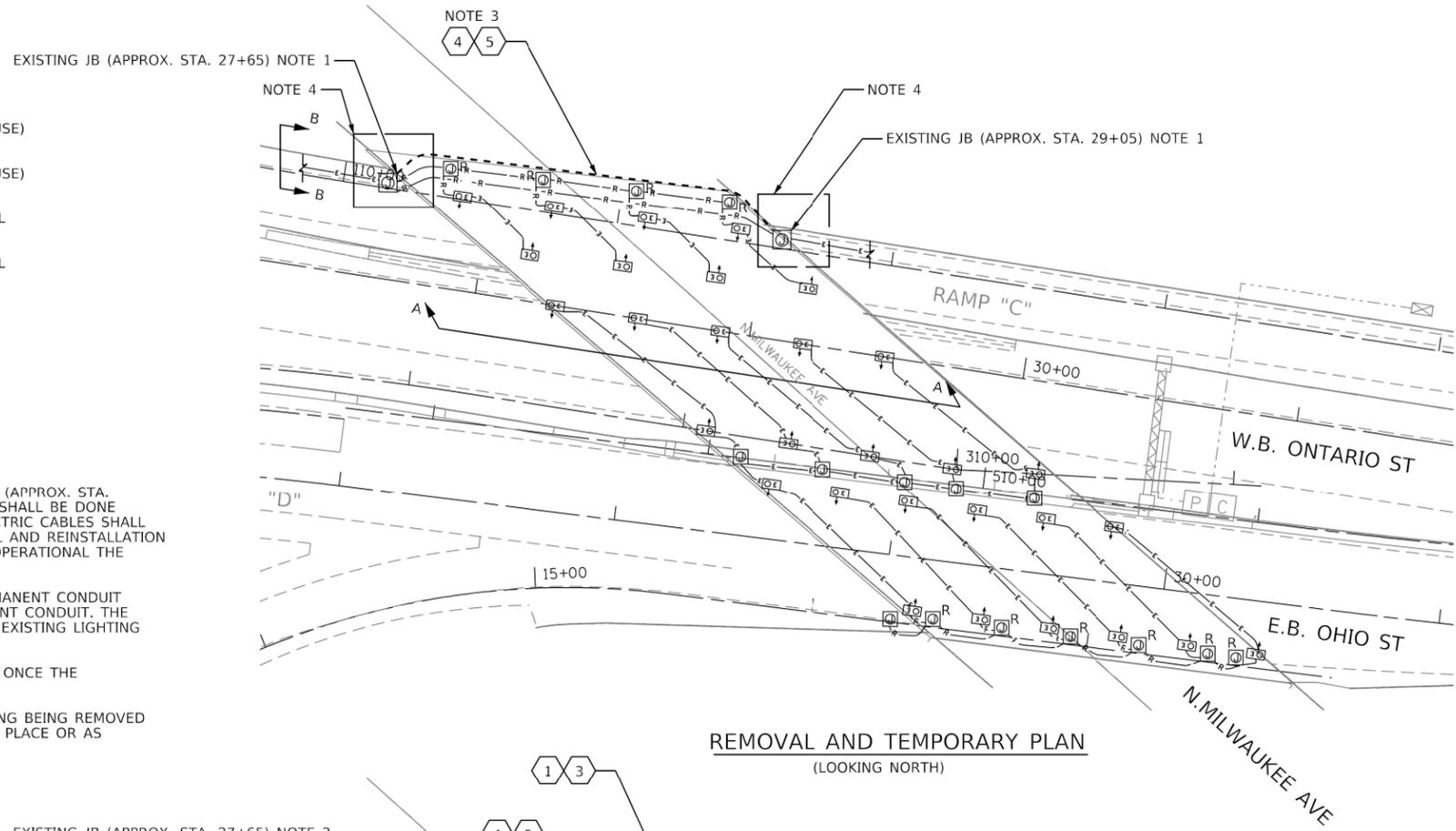


LEGEND

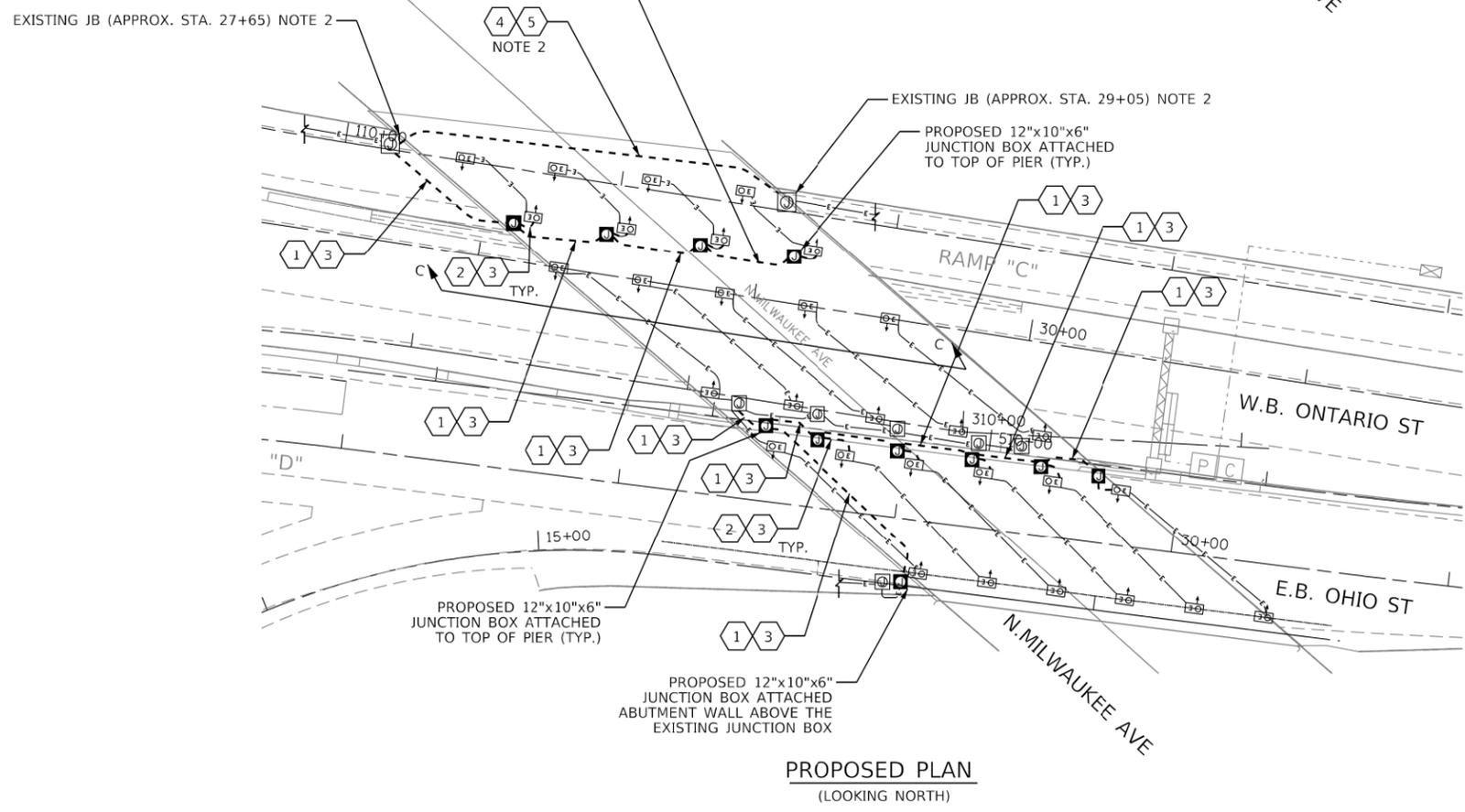
- 1 ELECTRIC CABLE IN CONDUIT, 3-1/C NO. 10, 1/C NO. 10 GROUND, 600V (XLP-TYPE USE)
- 2 ELECTRIC CABLE IN CONDUIT, 2-1/C NO. 10, 1/C NO. 10 GROUND, 600V (XLP-TYPE USE)
- 3 CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED RIGID GALVANIZED STEEL
- 4 CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED RIGID GALVANIZED STEEL
- 5 REINSTALLED ELECTRIC CABLE IN PROPOSED CONDUIT

NOTES

1. EXISTING ELECTRIC CABLES SHALL BE DISCONNECTED AT THE EXISTING JUNCTION BOX (APPROX. STA. 29+05) AND PULLED BACK TO THE JUNCTION BOX (APPROX. STA. 27+65). THIS WORK SHALL BE DONE AFTER THE TEMPORARY CONDUIT ATTACHED TO THE BEAM HAS BEEN INSTALLED. ELECTRIC CABLES SHALL BE ROUTED TEMPORARILY TO THE CONDUIT ATTACHED TO THE BEAM. THE REMOVAL AND REINSTALLATION OF ELECTRIC CABLES SHALL BE MADE IN A WAY THAT EXISTING LIGHTING SYSTEM IS OPERATIONAL THE SAME DAY BEFORE DUSK.
2. AFTER THE STRUCTURAL REPAIR IS DONE ON THE ABUTMENT WALL, INSTALL THE PERMANENT CONDUIT ATTACHED TO STRUCTURE AND REROUTE THE EXISTING ELECTRIC CABLES IN PERMANENT CONDUIT. THE REMOVAL AND REINSTALLATION OF ELECTRIC CABLES SHALL BE MADE IN A WAY THAT EXISTING LIGHTING SYSTEM IS OPERATIONAL THE SAME DAY BEFORE DUSK.
3. CONDUIT ATTACHED TO BEAM IS FOR TEMPORARY USE ONLY AND SHALL BE REMOVED ONCE THE PERMANENT CONDUIT HAS BEEN INSTALLED OR AS DIRECTED BY ENGINEER.
4. EXISTING JUNCTION BOXES, CONDUITS, AND ELECTRIC CABLES FOR UNDERPASS LIGHTING BEING REMOVED SHALL REMAIN IN PLACE UNTIL THE PROPOSED UNDERPASS LIGHTING EQUIPMENT IS IN PLACE OR AS DIRECTED BY THE ENGINEER.
5. SEE CONDUIT TRANSITION DETAIL ON SHEET LT-03.



REMOVAL AND TEMPORARY PLAN
(LOOKING NORTH)



PROPOSED PLAN
(LOOKING NORTH)

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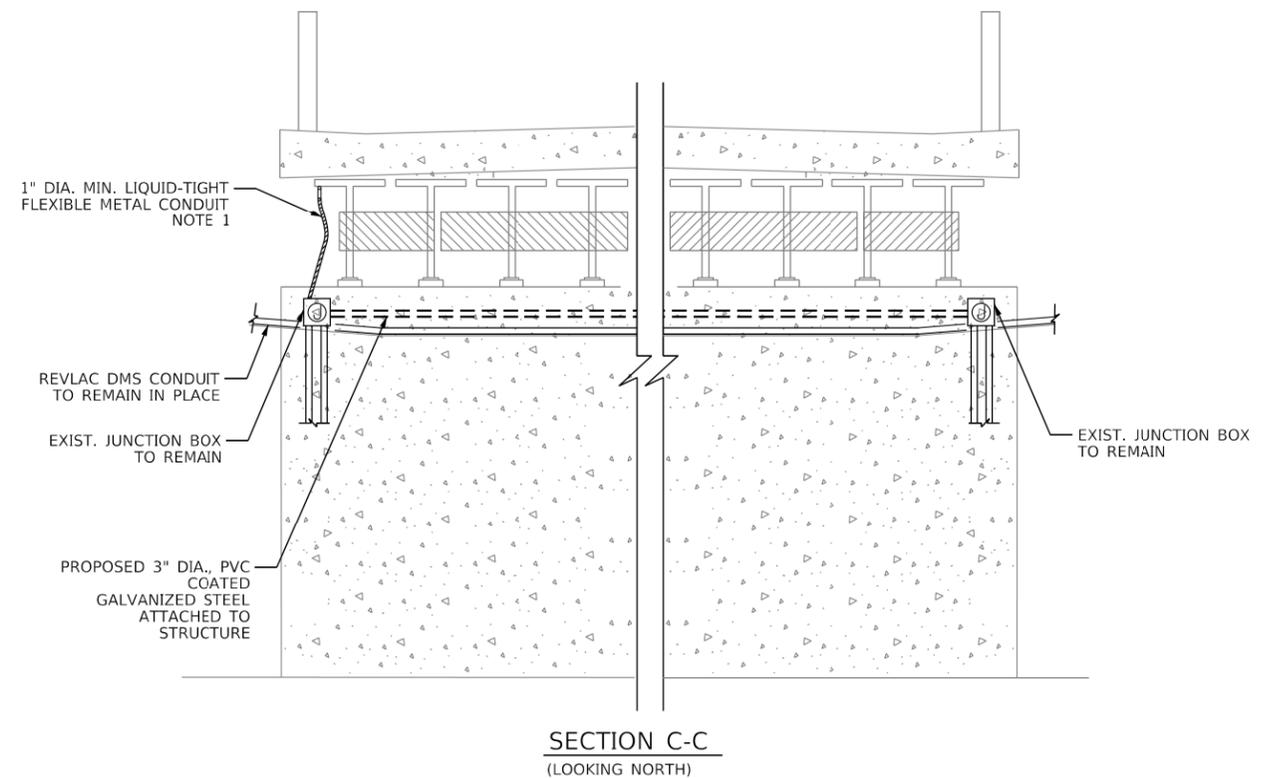
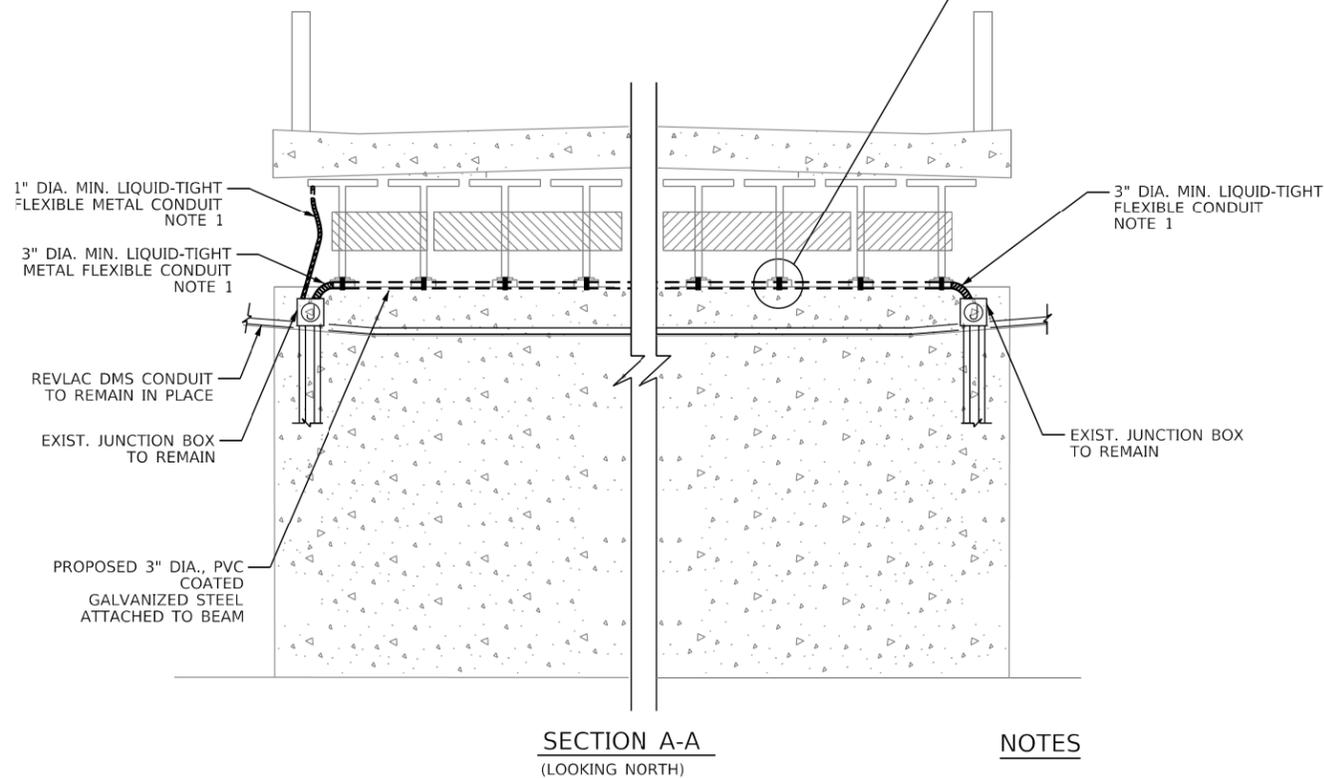
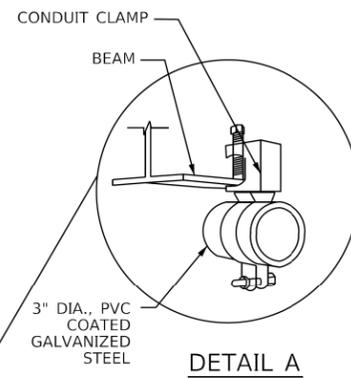
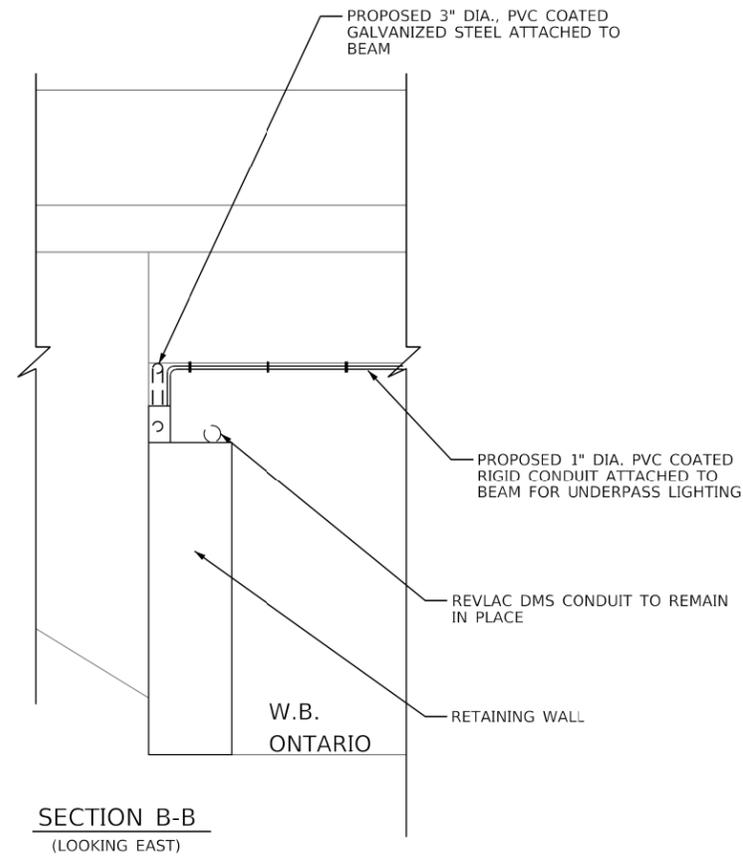
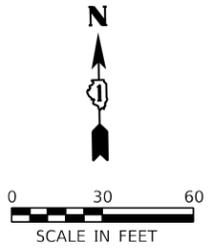
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC CONDUIT RELOCATION PLAN
WB ONTARIO ST MILWAUKEE AVE

SCALE: 1"=30' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	16
CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				



NOTES

- LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIAMETER.

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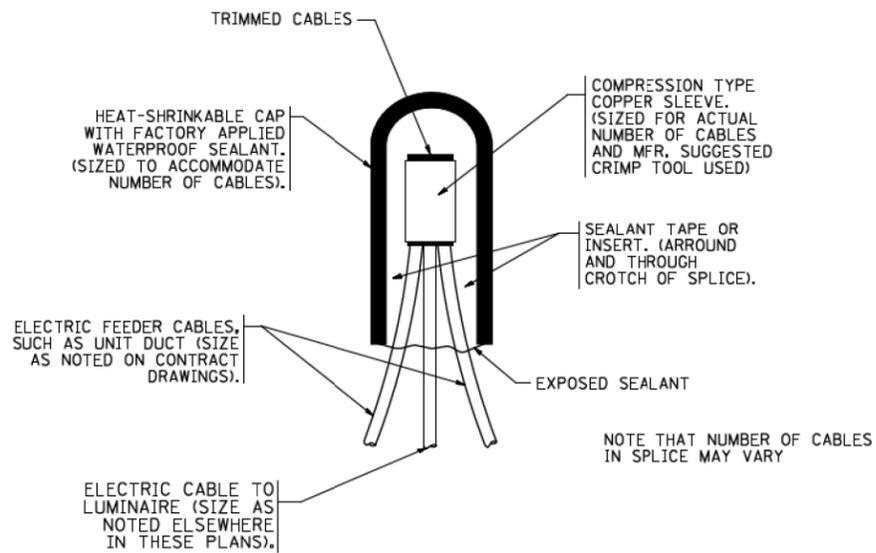
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS

SCALE: 1"=30' SHEET OF SHEETS STA. TO STA.

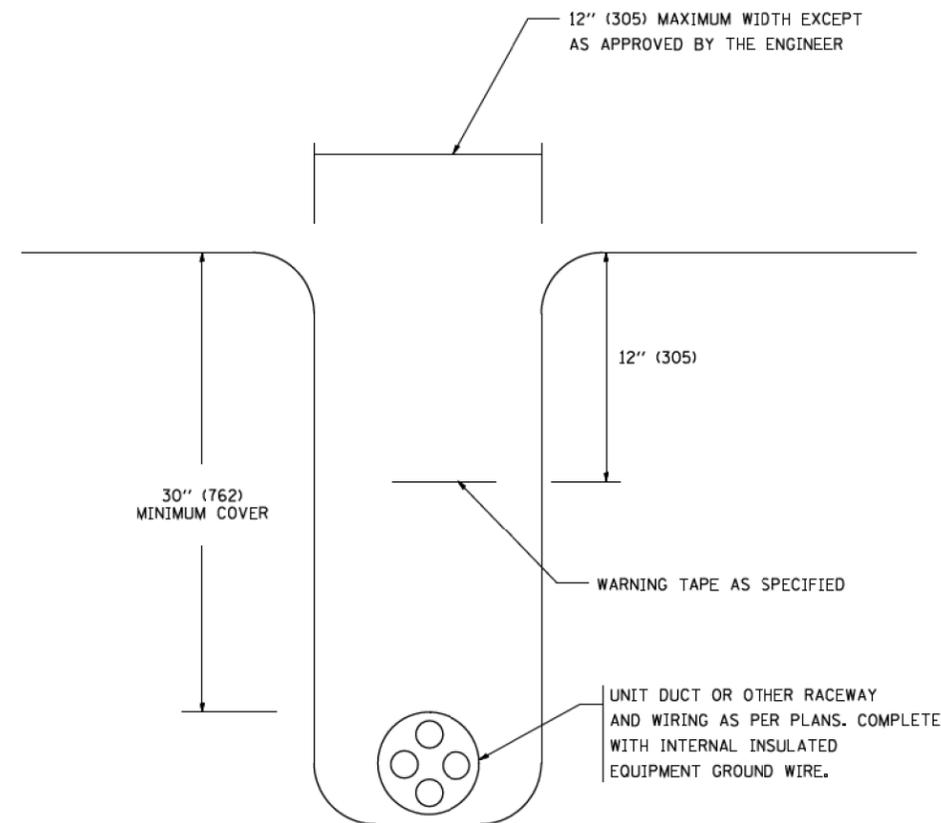
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94	2019-040-BR	COOK	25	17
CONTRACT NO. 62J18				
ILLINOIS FED. AID PROJECT				

LT-03



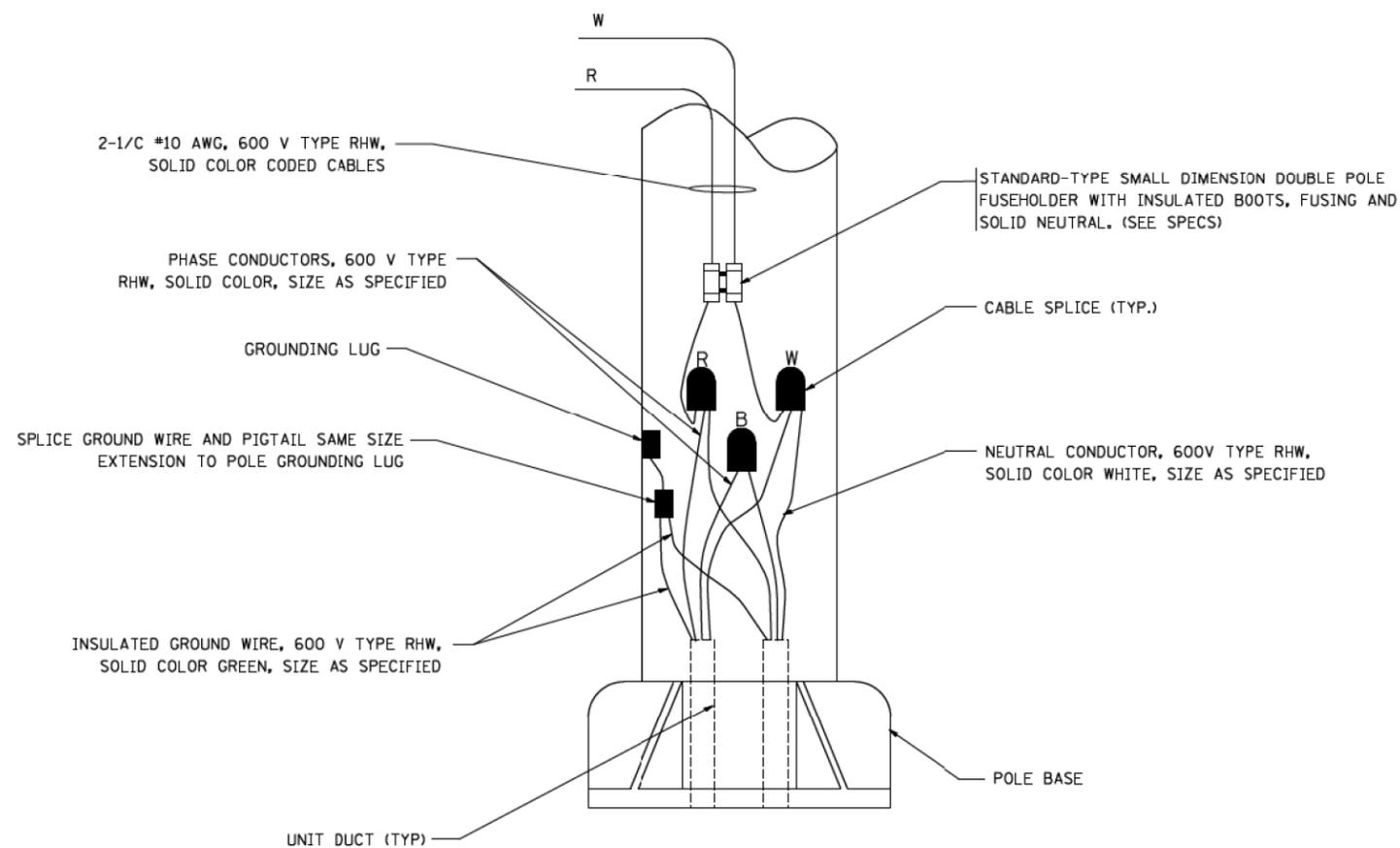
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

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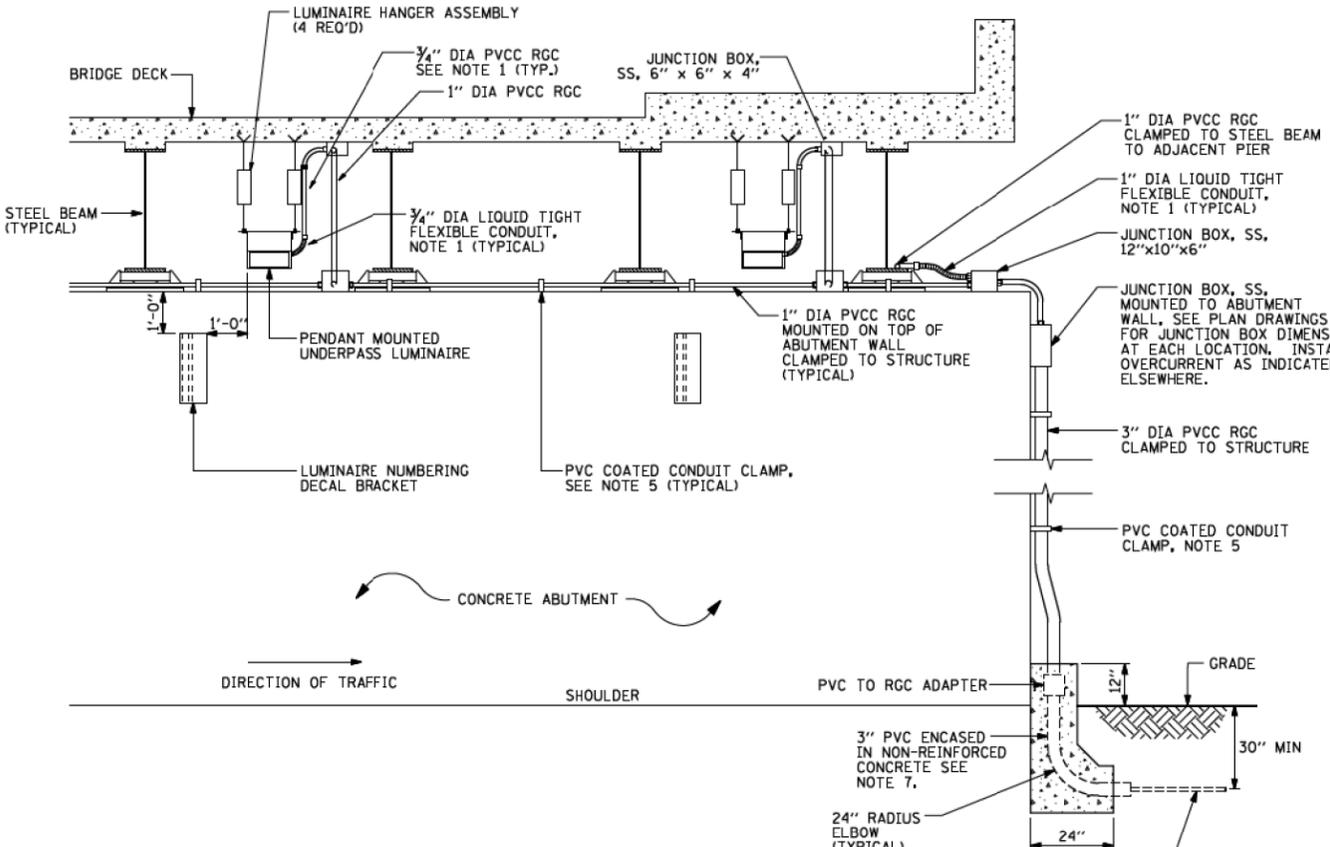
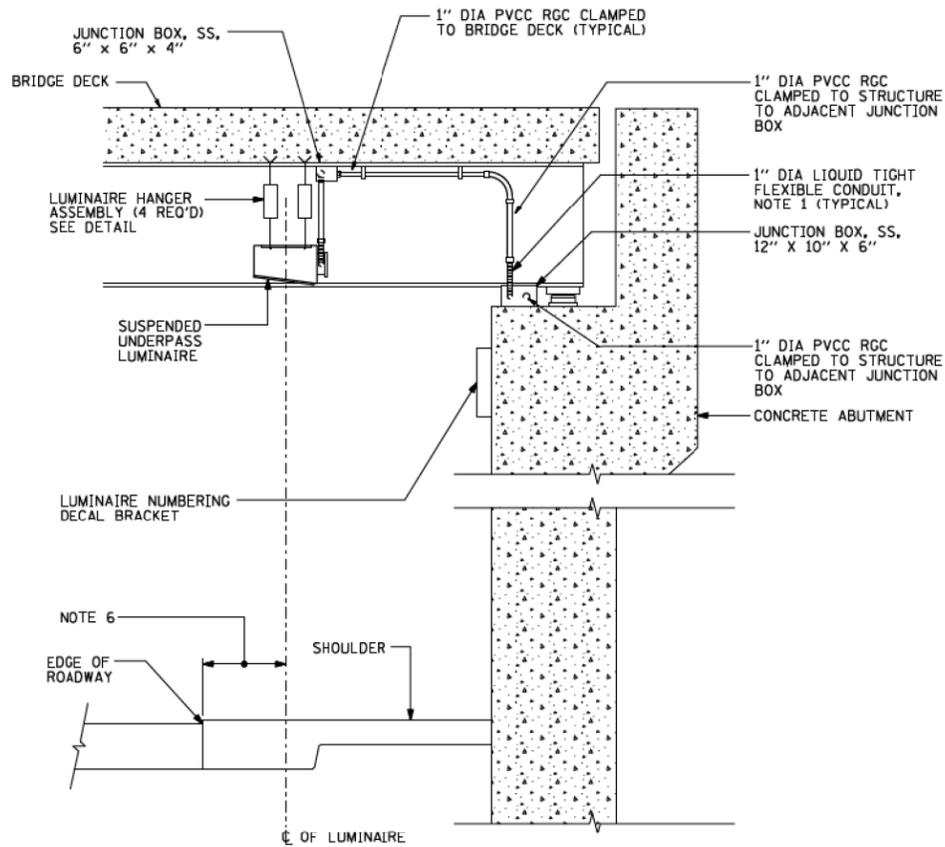
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**

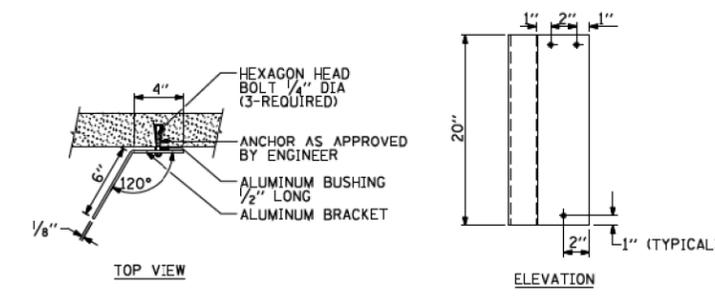
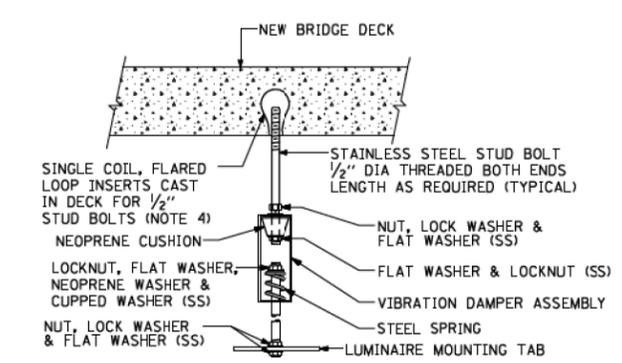
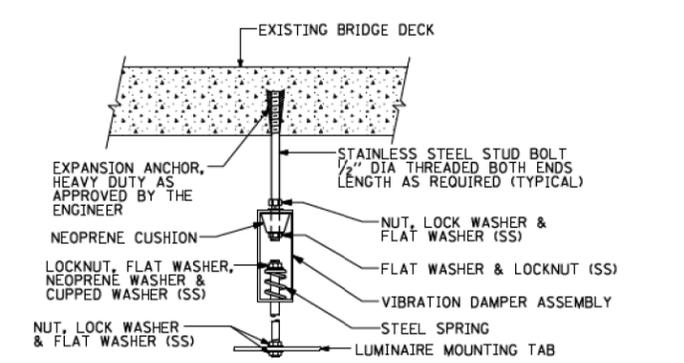
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94	2019-040-BR	COOK	25	18
BE-702			CONTRACT NO. 62J18	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-04



- NOTES:**
1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 1/2" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR, LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
 7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

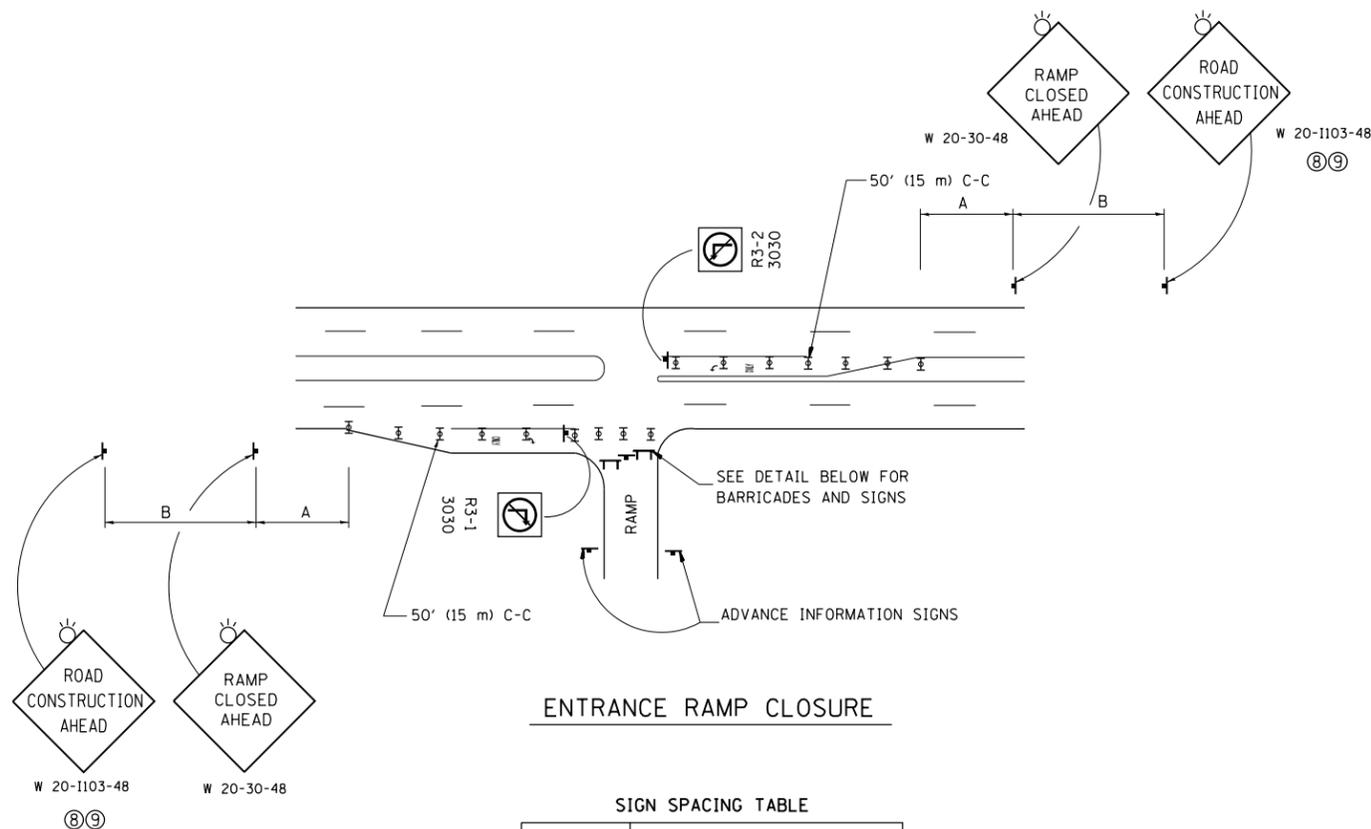
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUSPENDED MOUNT UNDERPASS
LUMINAIRE INSTALLATION DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	19
BE-900			CONTRACT NO. 62J18	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

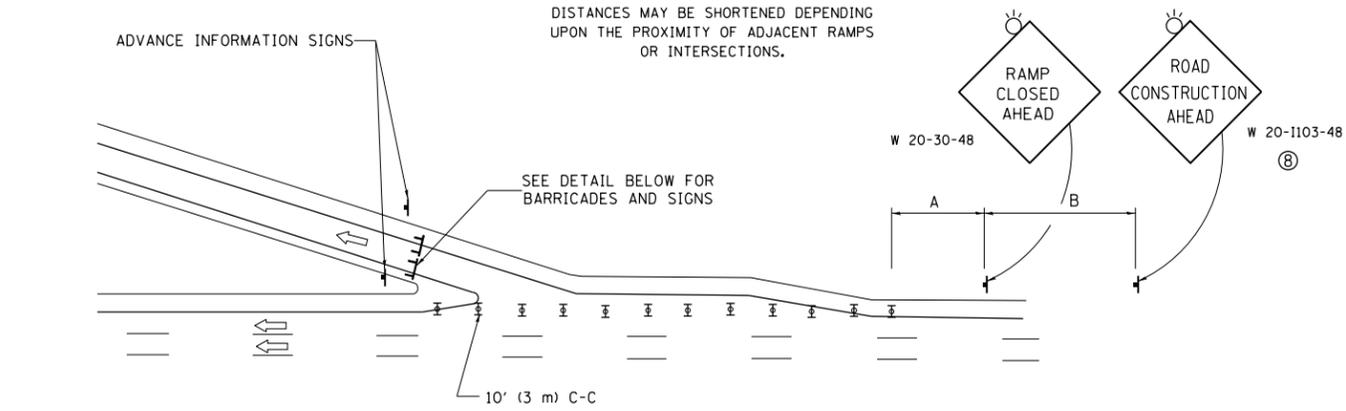


ENTRANCE RAMP CLOSURE

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)

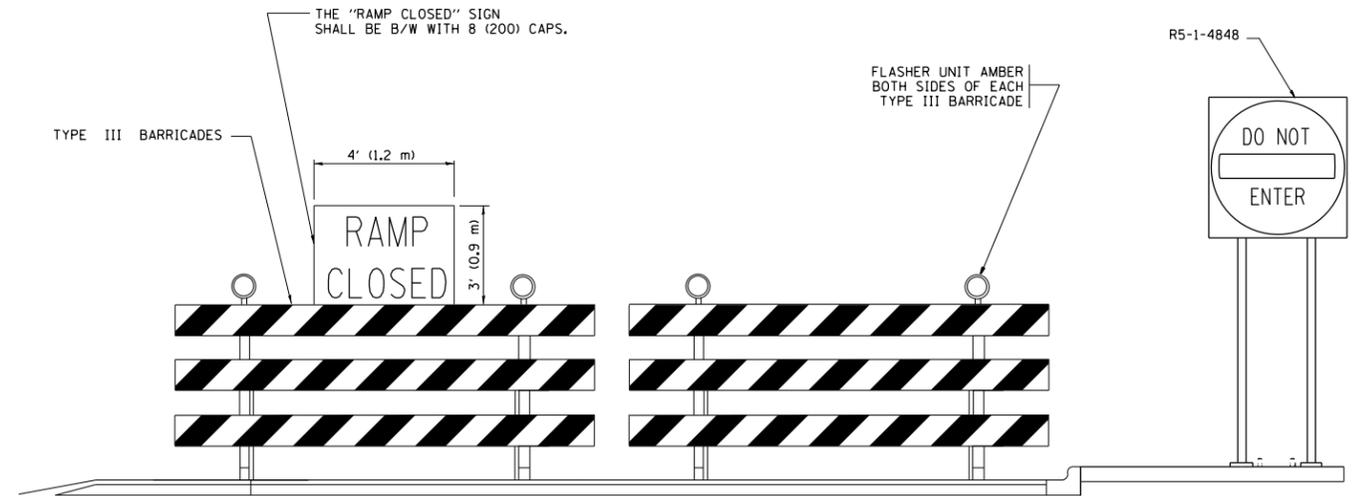
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

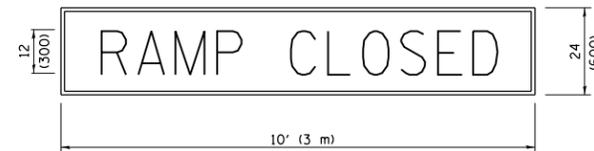
SYMBOLS

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



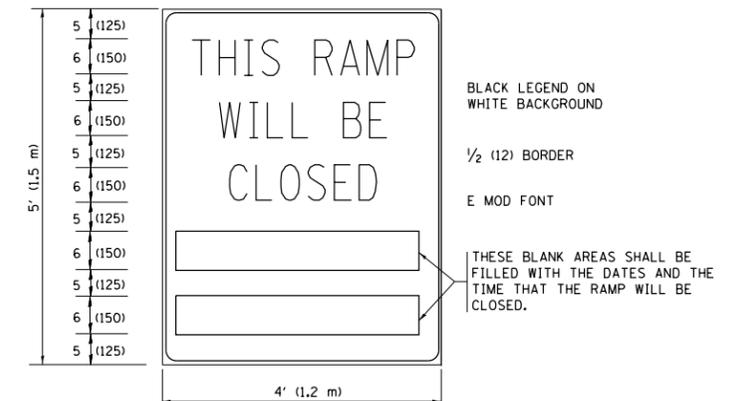
DETAIL FOR REQUIRED BARRICADES & SIGNS

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



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

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.

FILE NAME =	USER NAME = diazo	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\0116219\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 100.0000' / 1in.	DATE - 02-83	REVISED - M.D. 06-13
	PLOT DATE = 6/28/2019		REVISED - M.D. 01-18

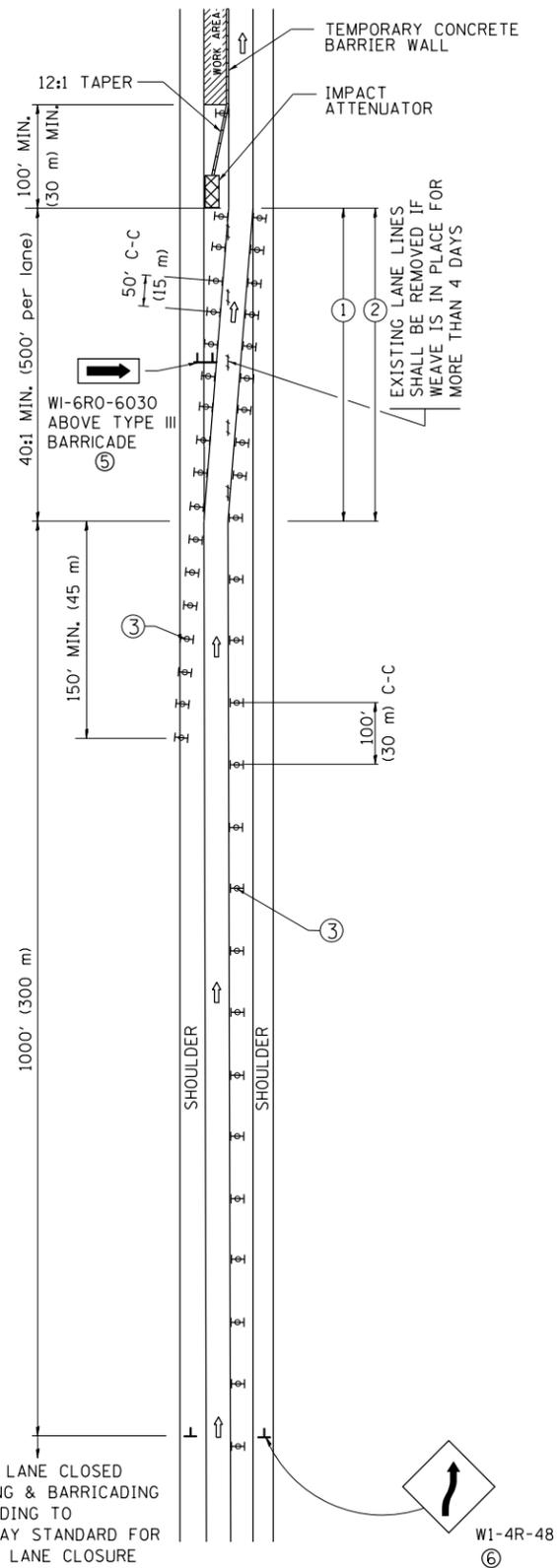
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

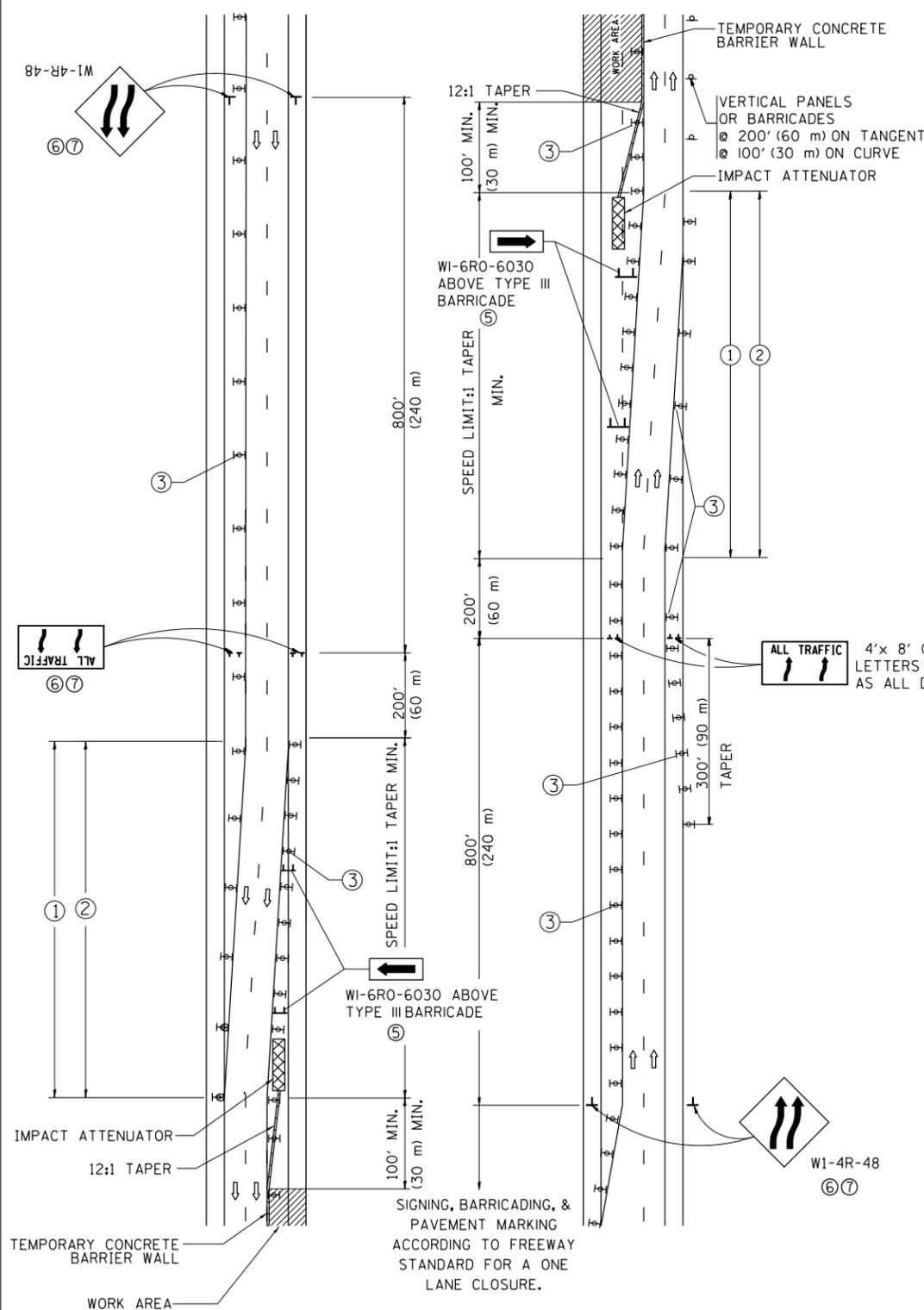
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	20
TC-08			CONTRACT NO. 62J18	
ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



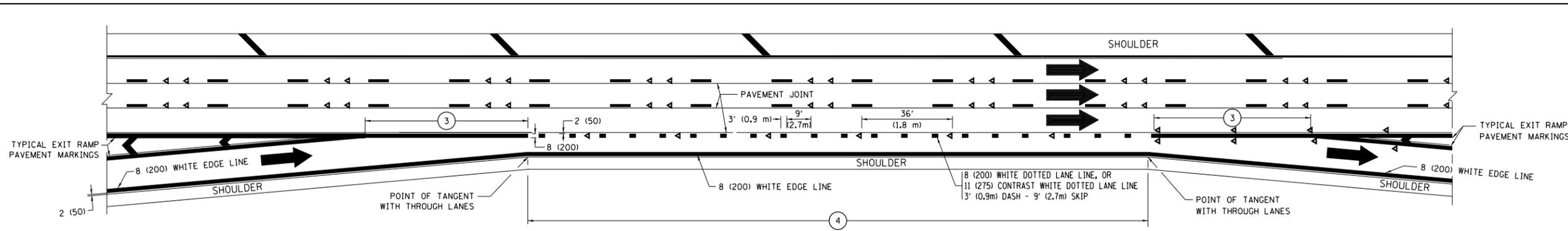
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE 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.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - 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.
 - 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.
 - 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.

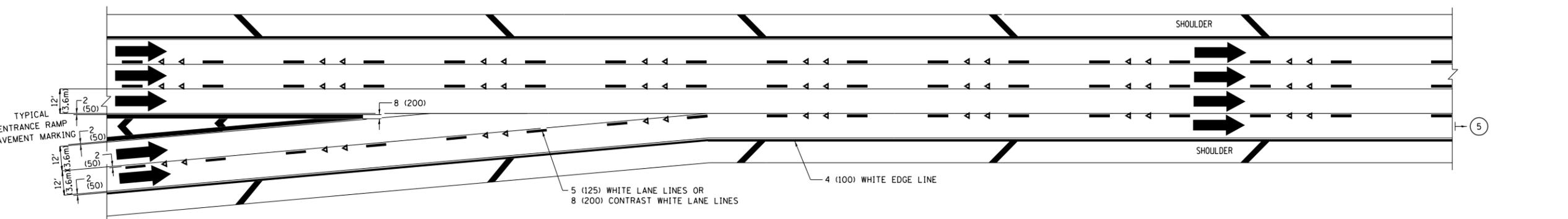
- ### SYMBOLS
- DIRECTION OF TRAFFIC
 - WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
 - TEMPORARY CONCRETE BARRIER WALL
 - IMPACT ATTENUATOR
 - W1-4R-48
 - W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

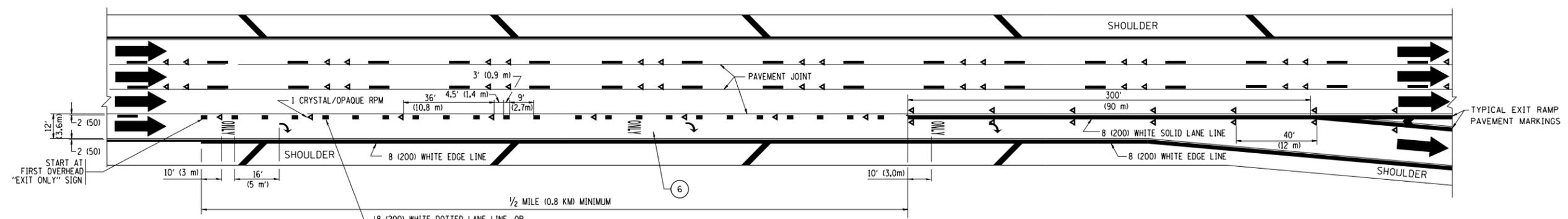
FILE NAME =	USER NAME = diazio	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIWOT\Documents\IDOT Offices\District 1\Projects\0116219\Drawings\Design\DistStd.dgn			REVISED - SPB 01-07		94	2019-040-BR	COOK	25	21			
PLOT SCALE = 100.0000' / in.	CHECKED -		REVISED - SPB 12-09		TC-09		CONTRACT NO. 62J18					
PLOT DATE = 6/28/2019	DATE - 02-87		REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



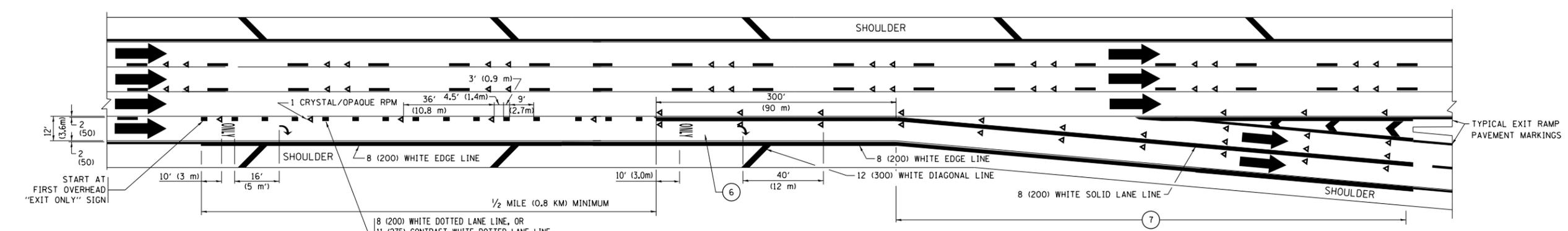
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS

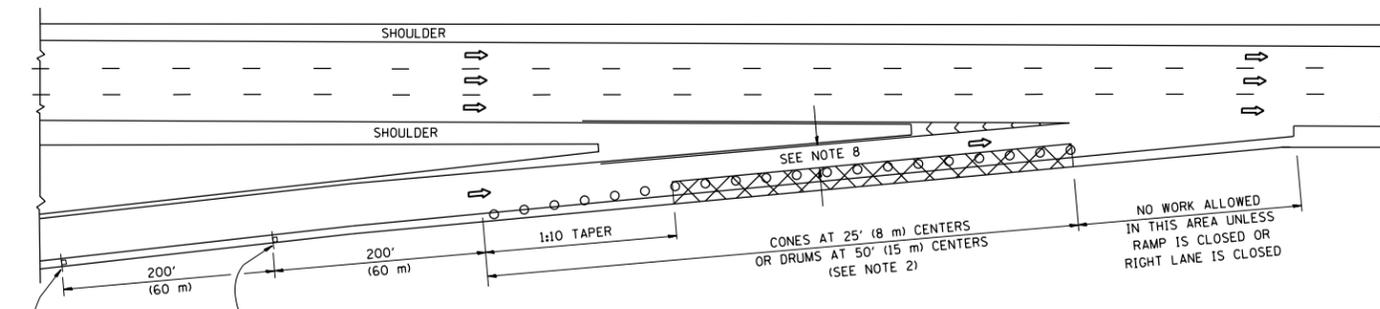


EXIT ONLY WITH OPTION LANE MARKINGS

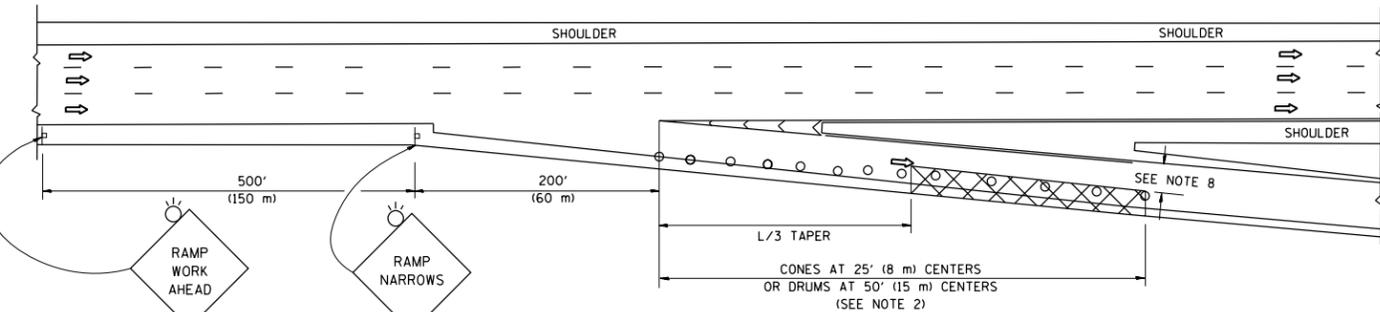
- NOTES:**
- 3 OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - 4 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - 5 FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - 6 ONLY AND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

FILE NAME =	USER NAME = diazo	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIWOT\Documents\IDOT Offices\District 1\Projects\011621\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - S.P.B. 01-07		94	2019-040-BR	COOK	25	23			
Default		DATE - 01-90	REVISED - S.P.B. 01-10		TC-12			CONTRACT NO. 62J18				
	PLOT SCALE = 100.0000' / in.		REVISED - M.D. 09-17		SCALE: NONE	SHEET 2	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

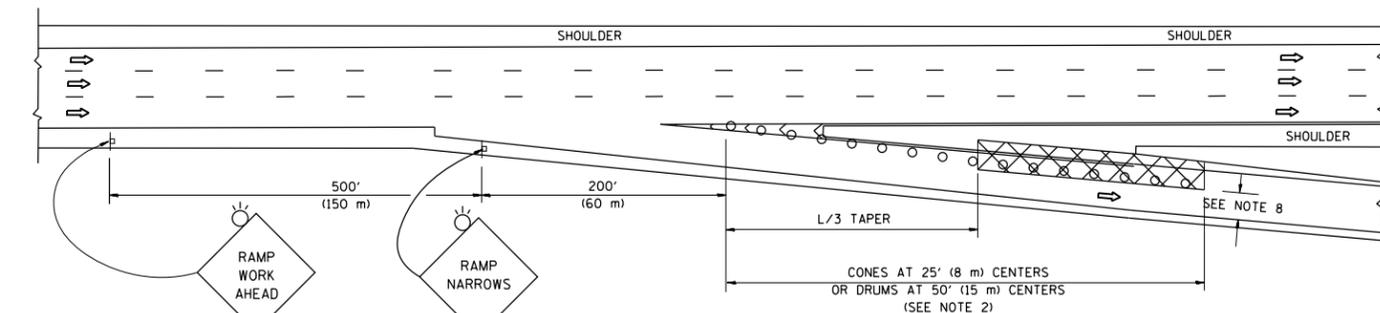
PARTIAL RAMP CLOSURE DETAILS



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

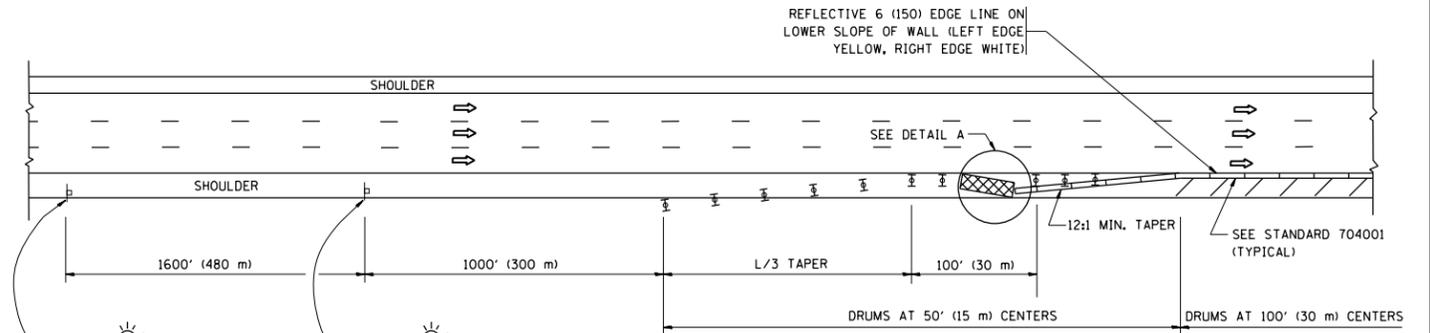
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

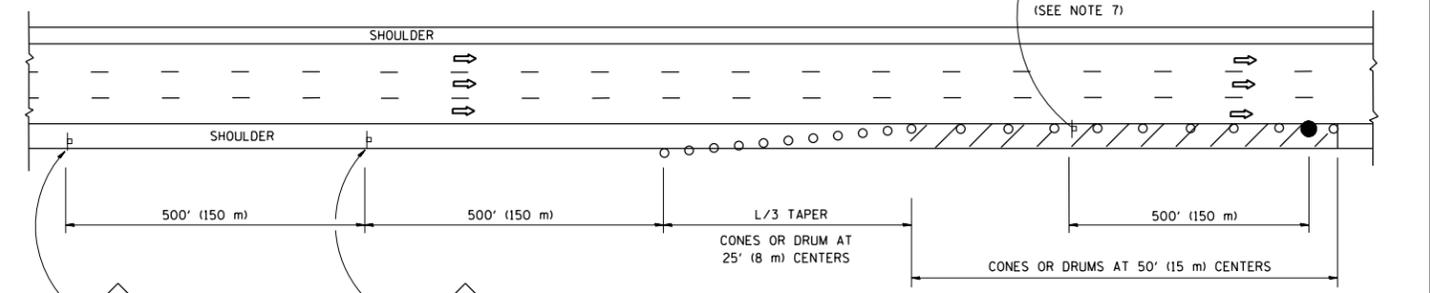
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$

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.
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.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

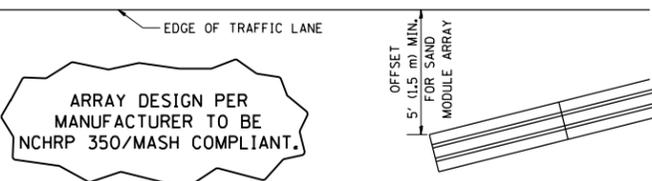


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH 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 =	USER NAME = diazo	DESIGNED -	REVISED - S.P.B. 01-07
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\011621\Drawings\Design\DWG\11621-1-1.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 100.0000' / in.	DATE - 11-96	REVISED - M.D. 06-13
	PLOT DATE = 6/28/2019		REVISED - M.D. 01-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

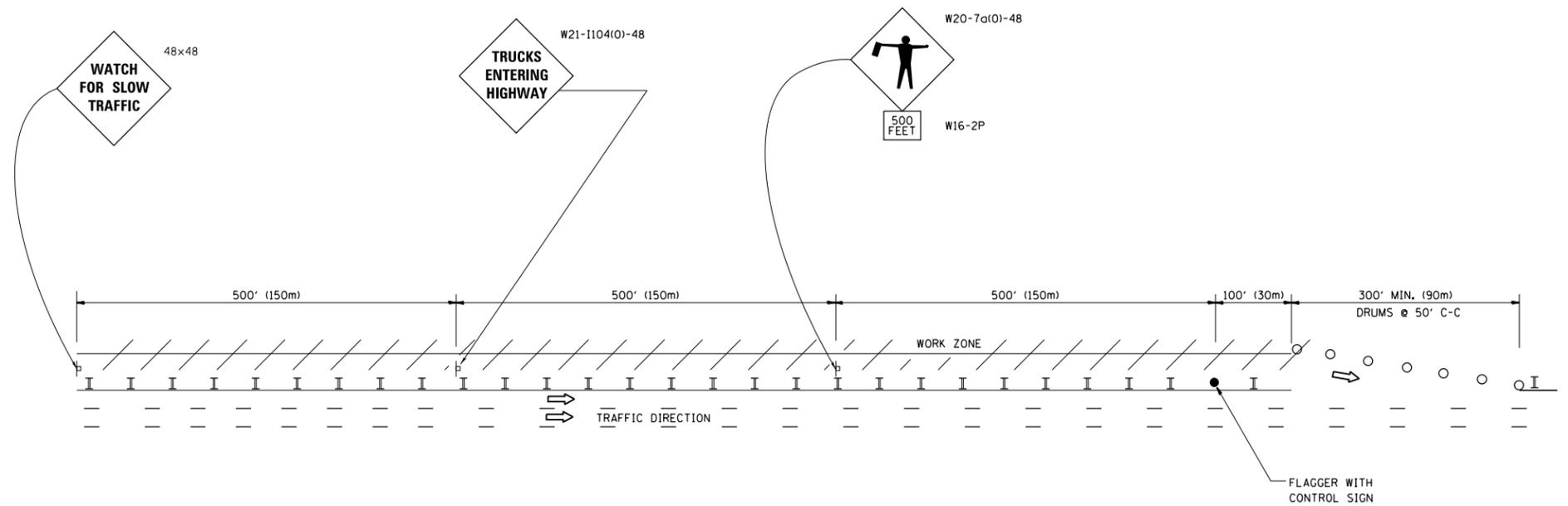
TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

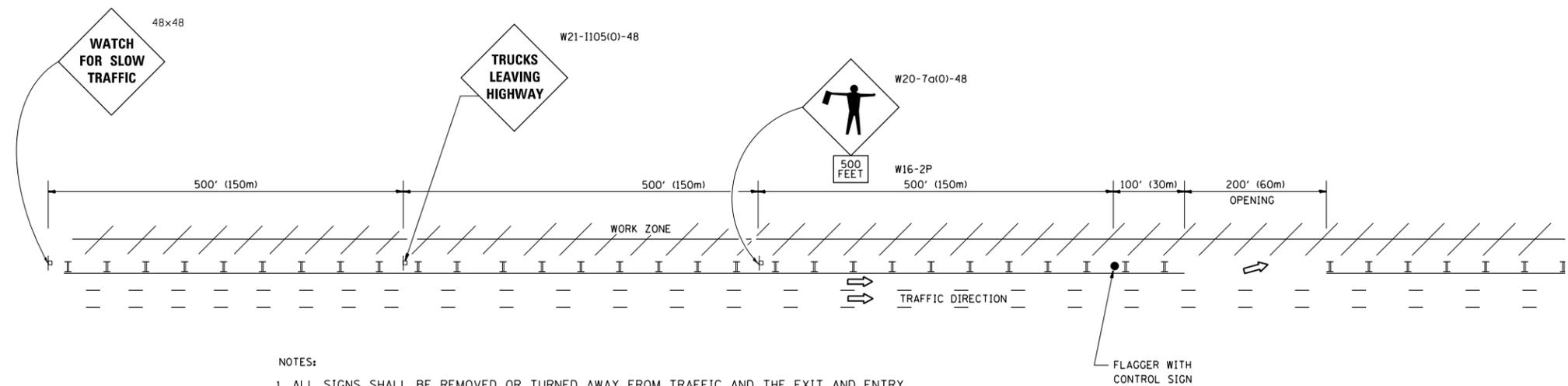
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-040-BR	COOK	25	24
TC-17		CONTRACT NO. 62J18		
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\0116219\DRAWING\Design\DistStd.dgn		DRAWN	REVISED - S.P.B. 01-07			94	2019-040-BR	COOK	25	25
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - S.P.B. 12-09			TC-18		CONTRACT NO. 62J18		
	PLOT DATE = 6/28/2019	DATE -	REVISED - M.D. 06-13			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		