

098

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(17R-1BR)BDR	WINNEBAGO	17	1
		ILLINOIS	CONTRACT NO. 64P10	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

**PROPOSED  
HIGHWAY PLANS**

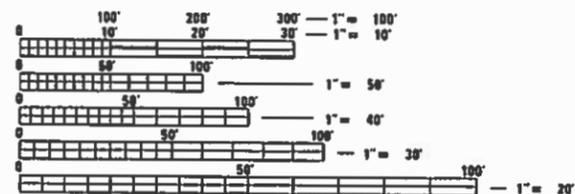
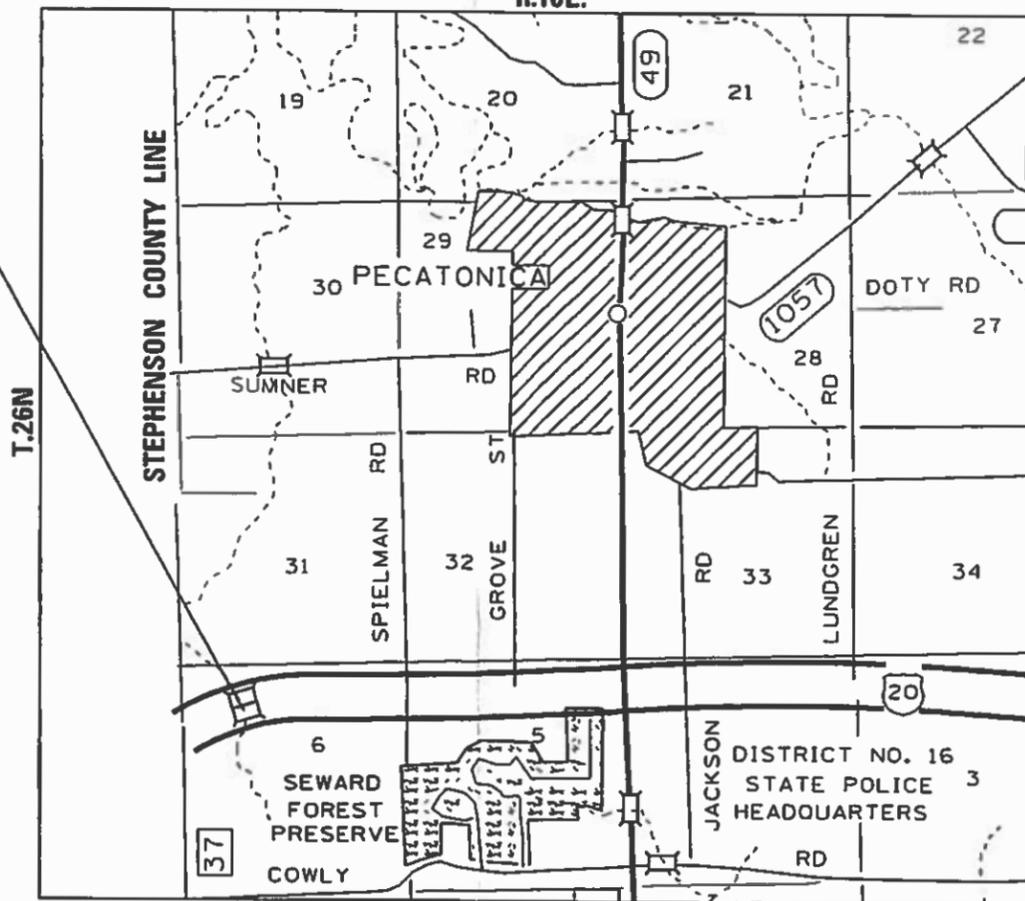
FAP ROUTE 301 (US 20)  
SECTION: (17R-1BR)BDR  
PROJECT: NHPP-CM16(960)  
TYPE of IMPROVEMENT: BRIDGE REPAIRS  
WINNEBAGO COUNTY

C-92-010-20  
R.10E.

WINNEBAGO COUNTY  
SEWARD TOWNSHIP - SECTION 6



SN 101-0166



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

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

PROJECT ENGINEER: DAVID DOSS (815) 284-5416  
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64P10

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 15, 2020

[Signature]  
REGIONAL ENGINEER

[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS



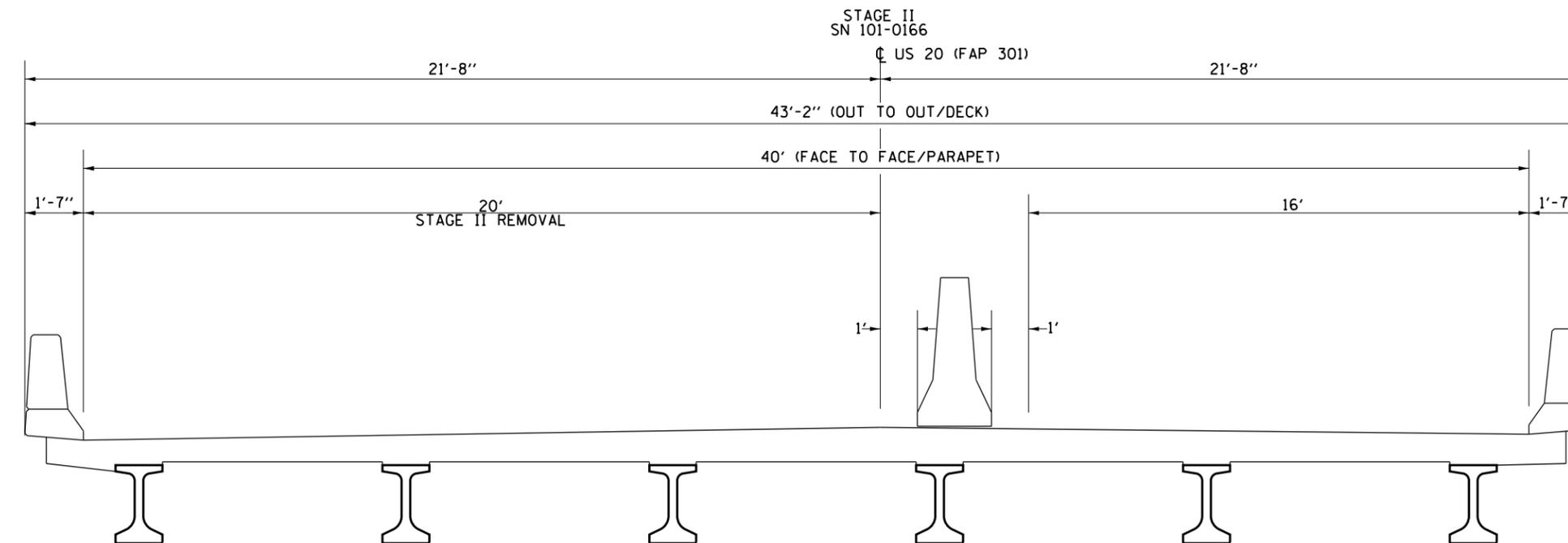
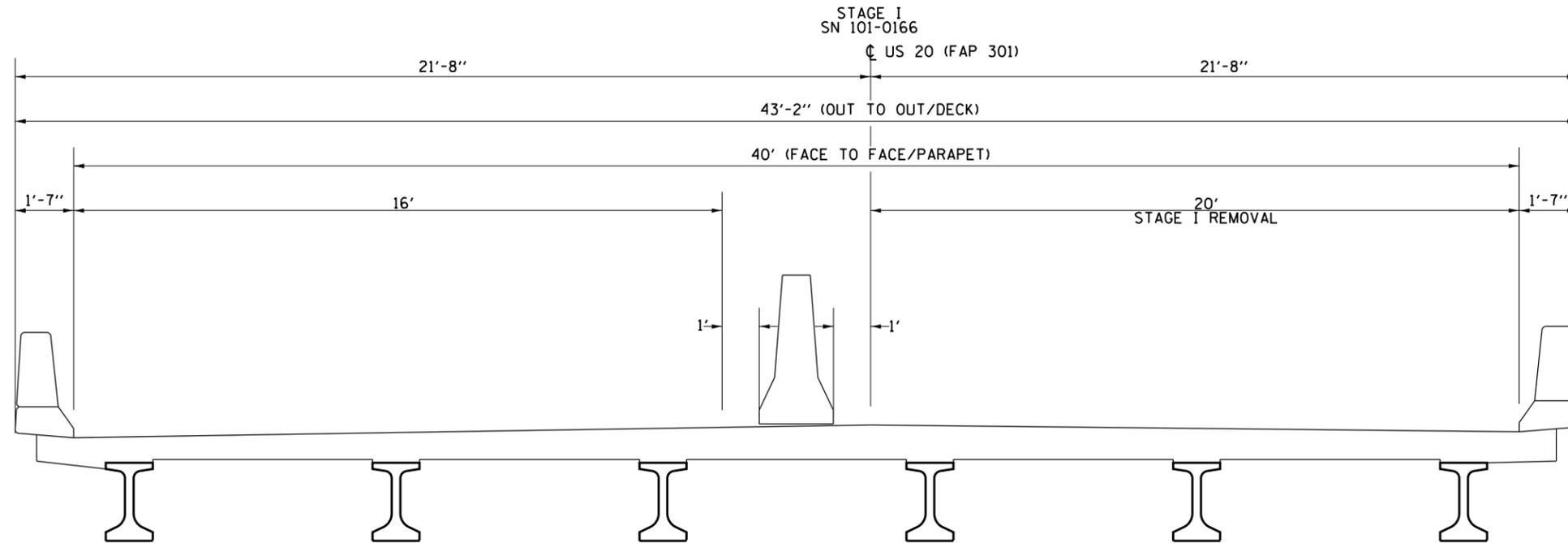
# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	0059 80% NHPP 20% STATE	TOTAL QUANTITY
			WINNEBAGO COUNTY	
40600990	TEMPORARY RAMP	SQ YD	25	25
40604050	HOT- MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	120	120
42001300	PROTECTIVE COAT	SQ YD	720	720
50300260	BRIDGE DECK GROOVING	SQ YD	432	432
67100100	MOBILIZATION	L SUM	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	550	550
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	550
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	625	625
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2
Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	720	720
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2 1/2"	SQ YD	720	720
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	1	1
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	648	648
Z0041895	POLYMER CONCRETE	CU FT	3.4	3.4

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 I:\Projects\Operations\DOT - Offices\District 2\Projects\Operations\Bridges - Section\Winnebago\101-018664P10\CADD\DD2-shit-cover.dgn

USER NAME = dossdd PLOT SCALE = 100.0000' / in. PLOT DATE = Jan-15-2020 10:35:09 AM	DESIGNED - _____ DRAWN - _____ CHECKED - _____ DATE - _____	REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b> SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____	F.A.P. RTE. 301 SECTION (17R-1BR)BDR COUNTY WINNEBAGO TOTAL SHEETS 17 SHEET NO. 3 CONTRACT NO. 64P10 ILLINOIS FED. AID PROJECT
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# STAGING TYPICALS



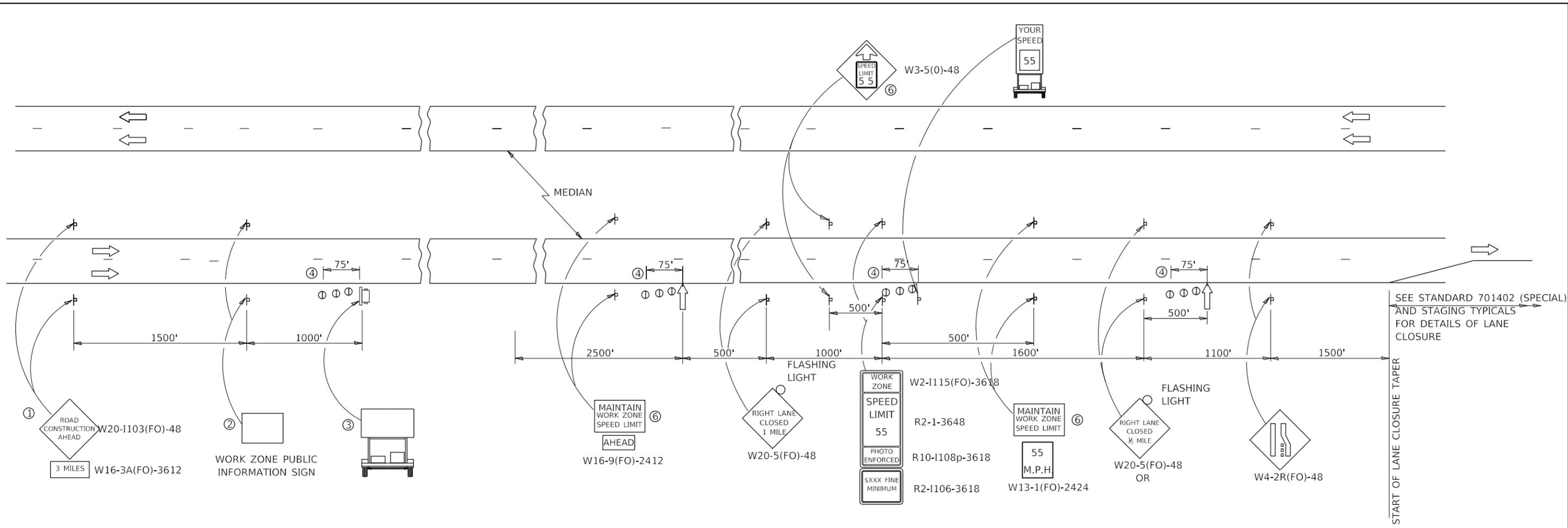
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

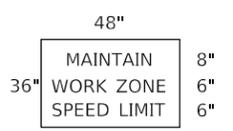
STAGING TYPICALS

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(17R-1BR)BDR	WINNEBAGO	17	4
CONTRACT NO. 64P10			ILLINOIS FED. AID PROJECT	



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:  
 "RIGHT LANE CLOSED" / " x MILES AHEAD"  
 "LEFT LANE CLOSED" / " x MILES AHEAD"  
 "ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.
- ⑥ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊢ SIGN
- ⊙ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- 🚛 TRAILER MOUNTED SPEED DISPLAY SIGN

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

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FILE: \\bls01\p01\pub\lansroom.d\all\inkd\gov\PIW\DOT\Documents\IBDOT\_Offices\Bldg\2\_Projects\Operations\Bldg\_Section\Winnebago\101-018664\FP\01\CD\DD\02-sh-covey.dgn

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

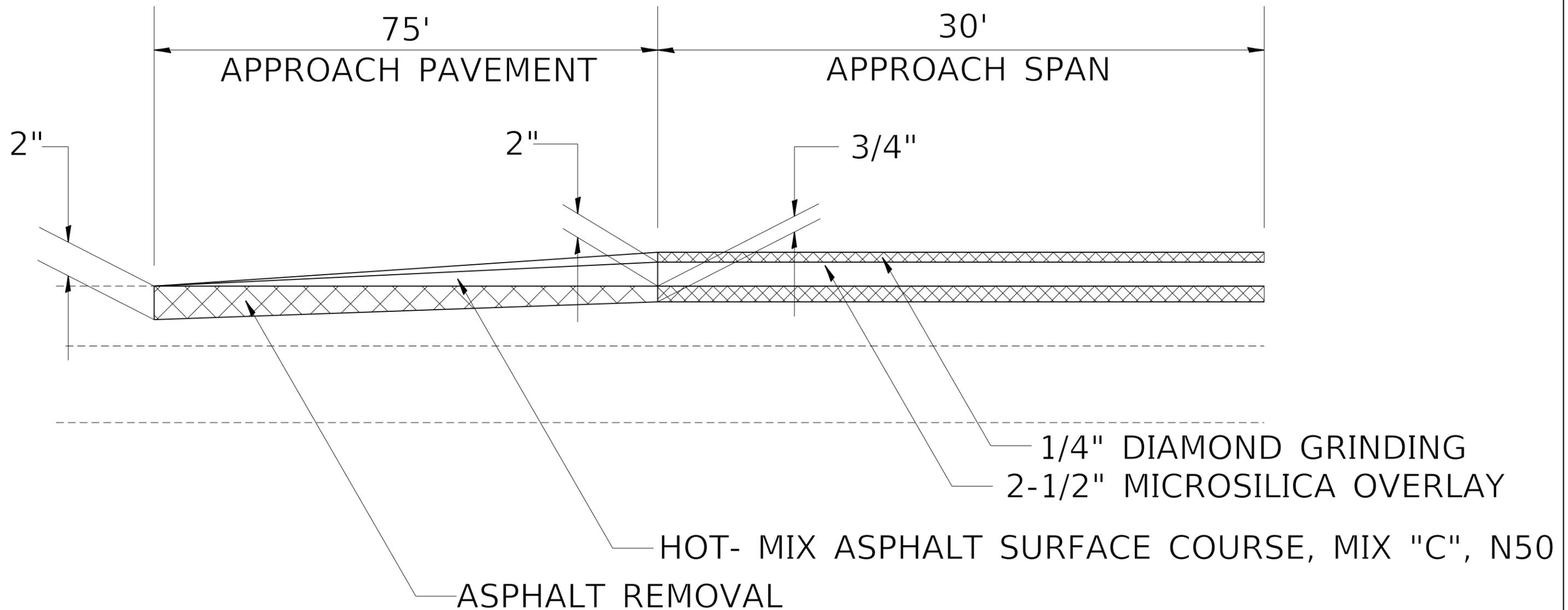
**TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL)**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

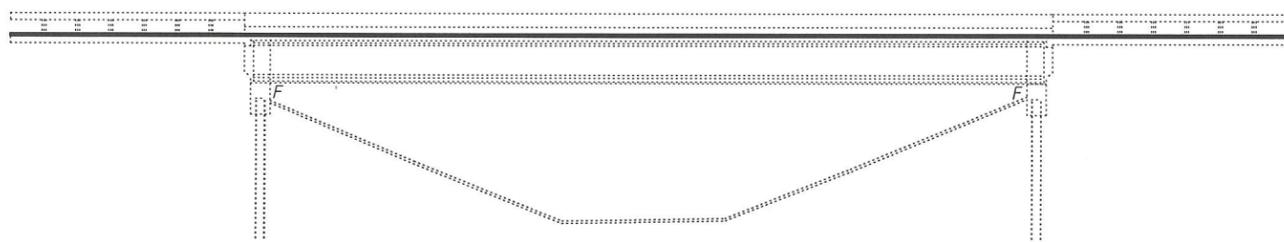
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(17R-1BR)BDR	WINNEBAGO	17	5
CONTRACT NO. 64P10				
ILLINOIS FED. AID PROJECT				



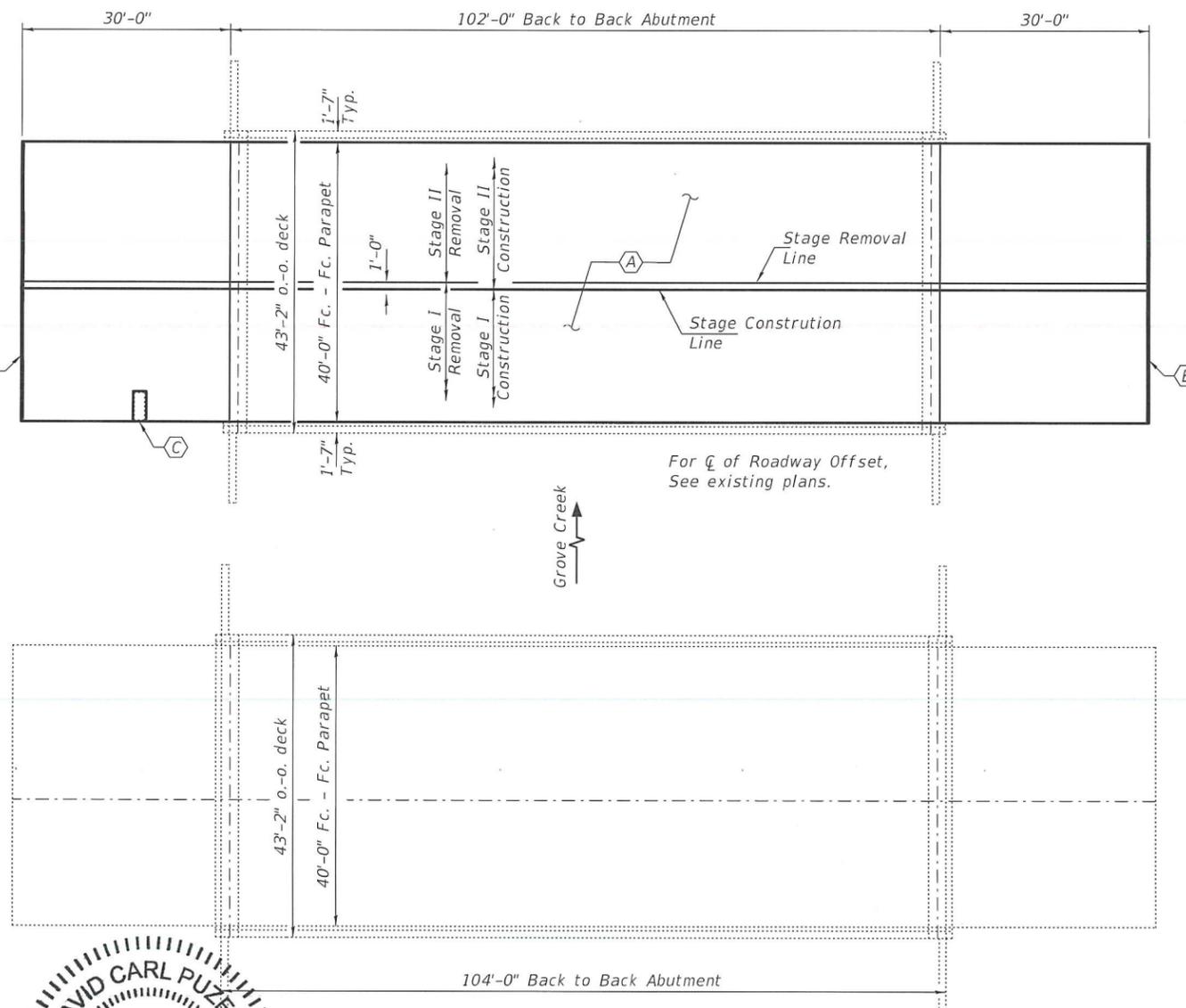
# TYPICAL TAPER FOR APPROACH PAVEMENT SN 101-0166



FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL TAPER FOR APPROACH PAVEMENT SN 101-0166</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 2\Projects\Operations\Drawings\Section\Winnebago\101-0166\64P10\2-shft-cover.dgn	DRAWN	Section\Winnebago\101-0166\64P10\2-shft-cover.dgn	REVISED			301	(17R-1BR)BDR	WINNEBAGO	17	7
Default	PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64P10		ILLINOIS FED. AID PROJECT		
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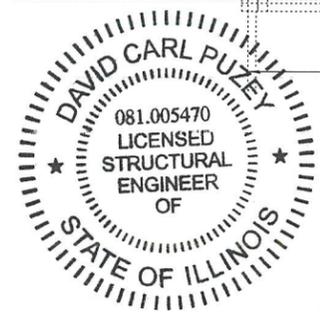
ELEVATION



Plan

- (A) - Bridge Deck Scarification  $\frac{3}{4}$ " and \*  $2\frac{1}{2}$ " Microsilica Overlay
- (B) - Polymer Concrete Nosing (See Detail B)
- (C) - Scupper Adjustment

\* Prior to  $\frac{1}{4}$ " grinding.



EXPIRES 11-30-2020

DESIGNED - <i>Stephan m. Ryan</i>	EXAMINED - <i>Tim A. Dora</i>	DATE - MARCH 9, 2020
CHECKED - <i>Yenkat Reddy</i>	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>Yenkat Reddy</i>	PASSED - <i>David Puzey</i>	REVISED -
CHECKED - <i>SMR AJR</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

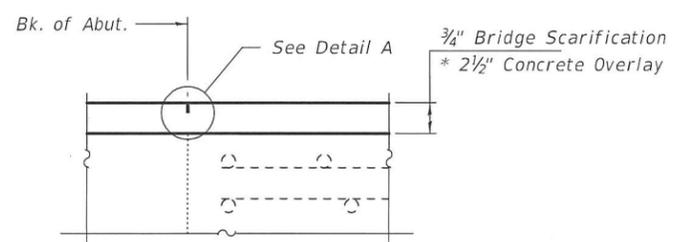
GENERAL PLAN AND ELEVATION  
FAP 301 OVER GROVE CREEK  
SN 101-0166 (WB) & 0167 (EB)

F.A.P. RTE. 301	SECTION (17R-18R) BDR	COUNTY WINNEBAGO	TOTAL SHEETS 17	SHEET NO. 8
CONTRACT NO. 64P10				ILLINOIS FED. AID PROJECT

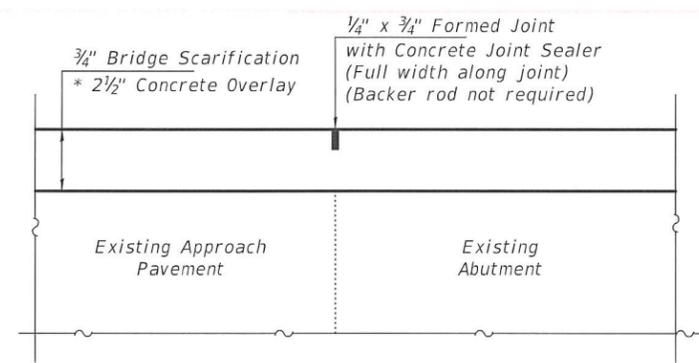
**GENERAL NOTES**

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.

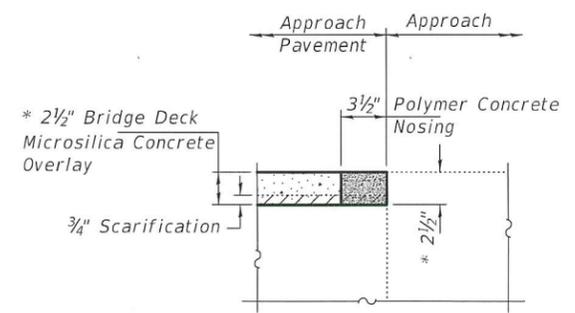
Synthetic fibers shall be added to the bridge deck microsilica concrete overlay. See Special provisions.



SECTION AT ABUTMENT



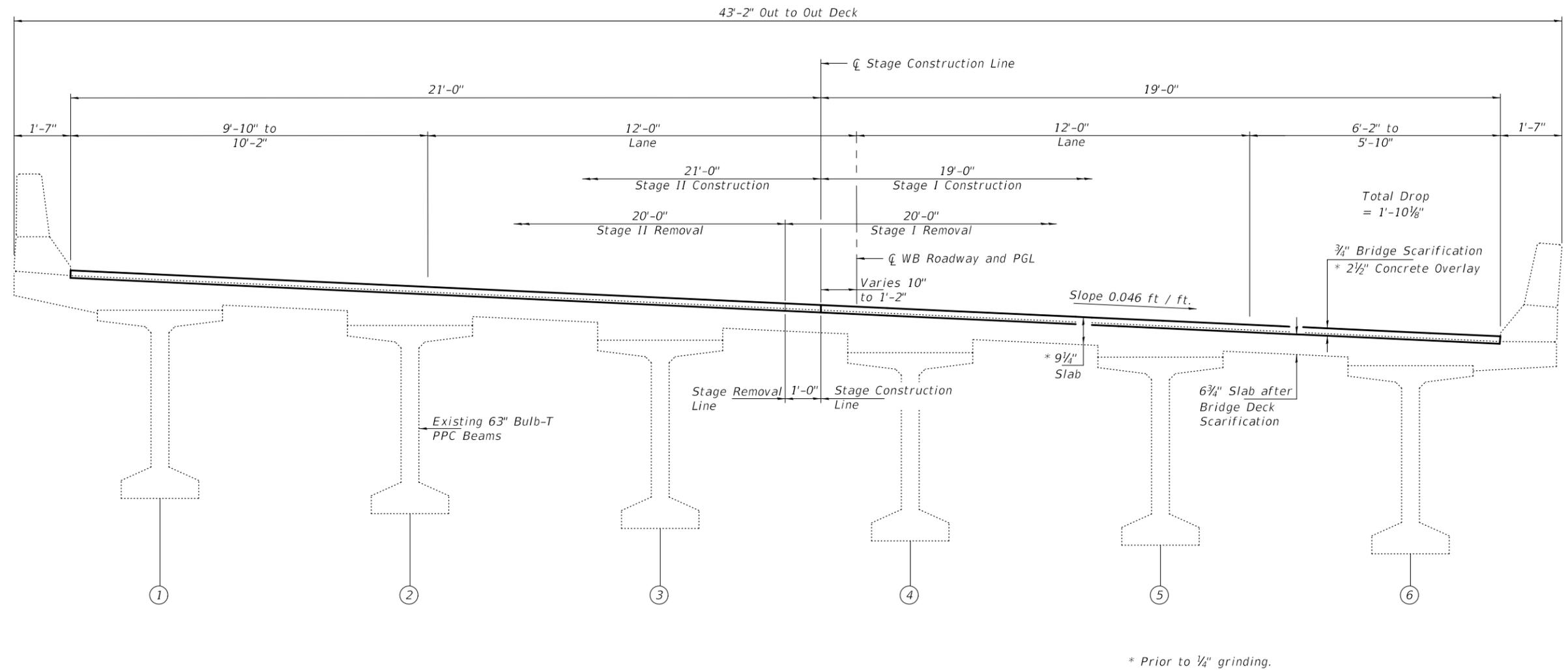
DETAIL A



DETAIL B

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{2}$ "	Sq. Yd.	720
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq. Yd.	720
Polymer Concrete	Cu. Ft.	3.4
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	432
Protective Coat	Sq. Yd.	720
Diamond Grinding (Bridge Section)	Sq. Yd.	648
Drainage Scuppers to be Adjusted	Each	1



**CROSS SECTION**  
(Looking East)

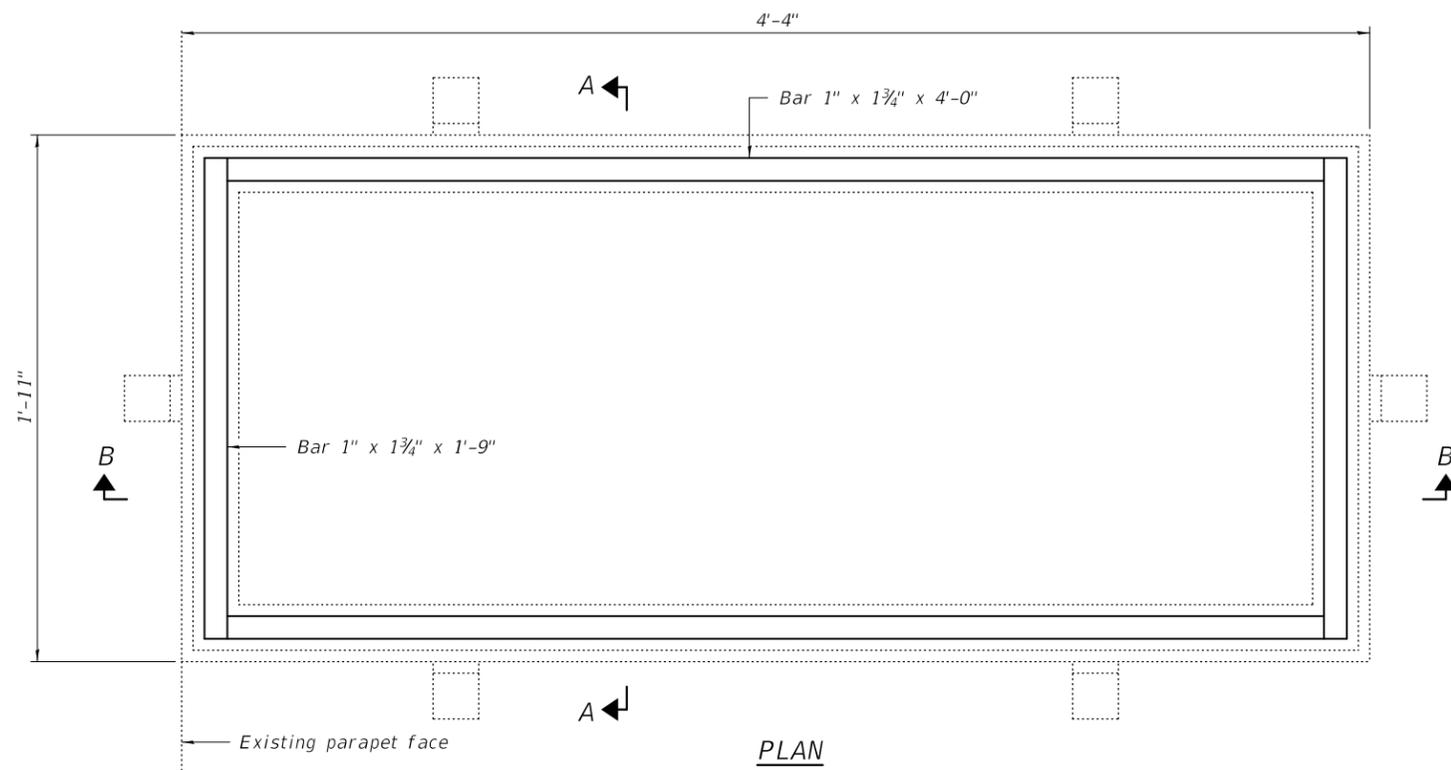
DESIGNED - SMR	EXAMINED	DATE - MARCH 9, 2020
CHECKED - AJR	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Reddy	PASSED	REVISED -
CHECKED - SMR AJR	<i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

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

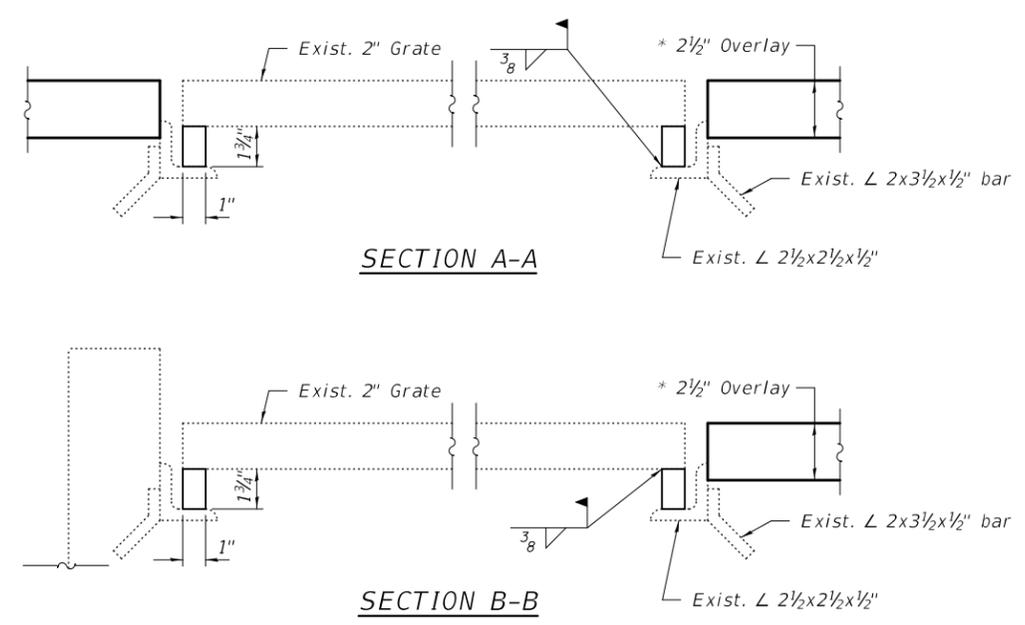
**CROSS SECTION**  
**SN 101 - 0166 (W.B)**

SHEET NO. 2 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(17R-1BR) BDR	WINNEBAGO	17	9
CONTRACT NO. 64P10				
ILLINOIS FED. AID PROJECT				



Notes:  
 The contractor shall ensure that no damage is done to existing grates to be reused.  
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.  
 Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.  
 All structural steel shall conform to AASHTO Classification M-270 Gr. 36.  
 The adjusting scupper ring shall be galvanized.  
 Bolts shall be 1/2"Ø, AASHTO M164 Type I, mechanically galvanized.

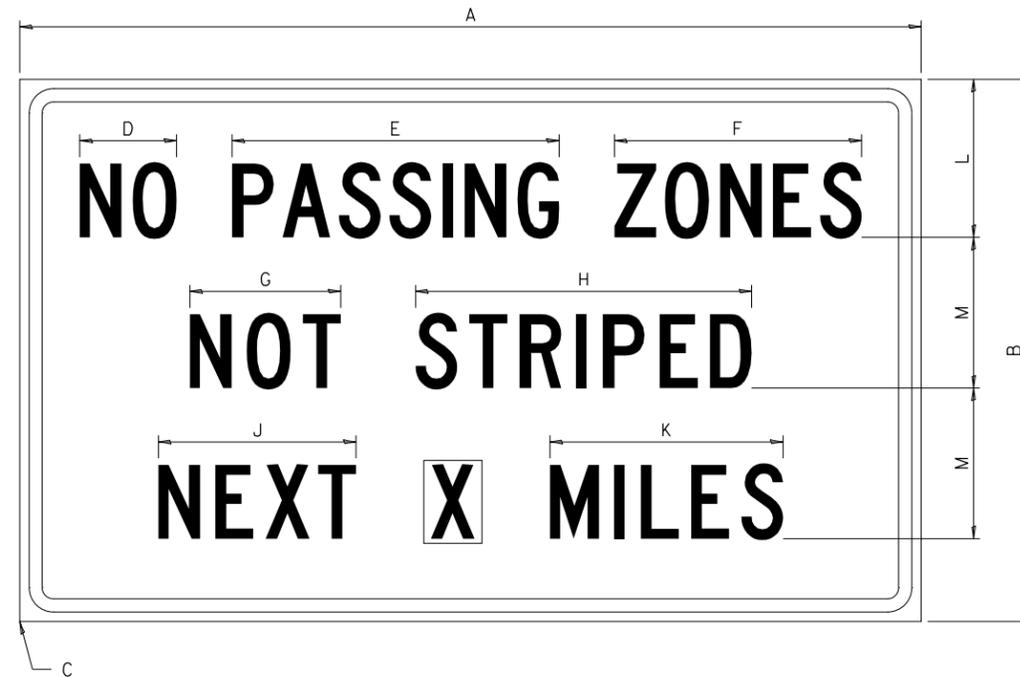


**BILL OF MATERIAL**

Item	Unit	Total
Drainage Scuppers to be Adjusted	Each	1

# WORK ZONE SIGN DETAILS

**ILLINOIS STANDARD G20-I100**



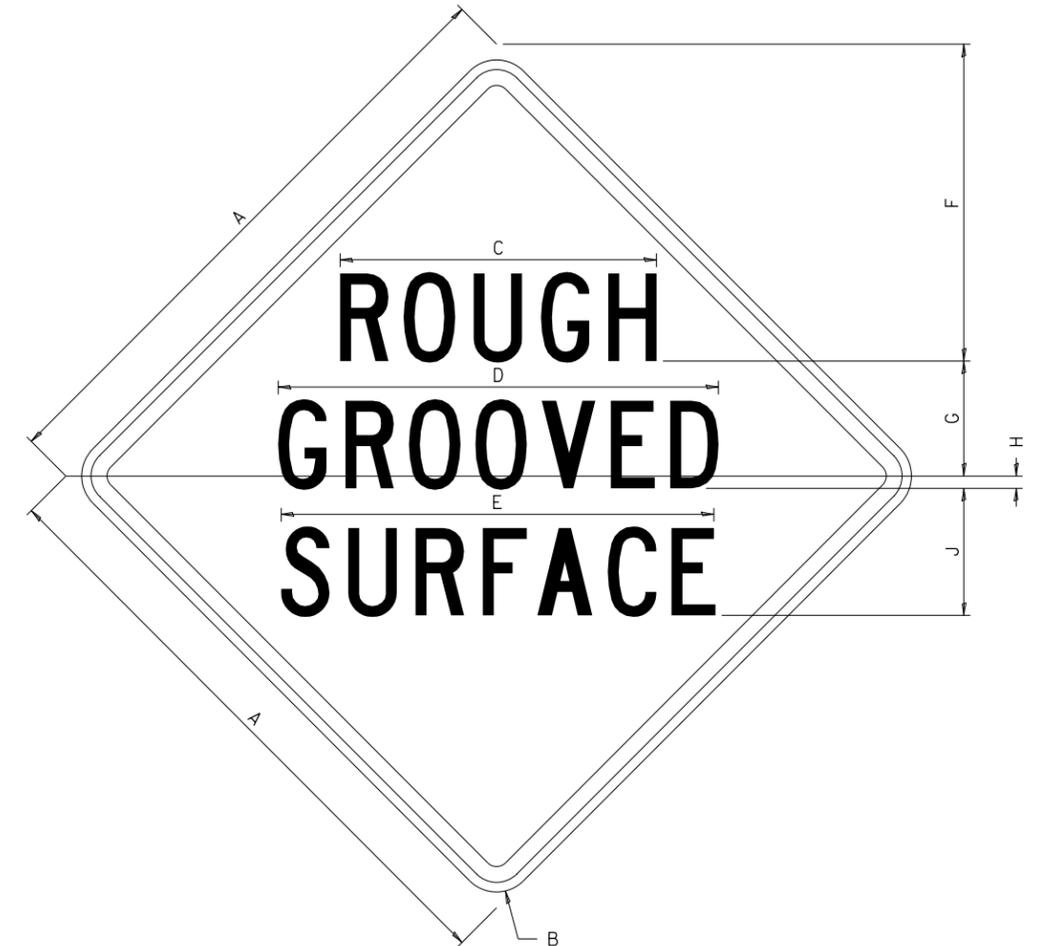
COLOR    LEGEND AND BORDER BACKGROUND    BLACK ORANGE    NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

**ILLINOIS STANDARD W8-I107**



COLOR    LEGEND AND BORDER BACKGROUND    BLACK ORANGE    NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00	

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME: s:\pub\baronm.d\illinois\p\WIDOT\Documents\IBOT\_Offices\IBOT.ctb; 2:Projects\Operations\Bridges\_Section\Winnebago\101-018664P\101C\DD\DD2-sh-covr.dgn

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PLOT SCALE = 100.0000' / in.	DRAWN - _____	REVISED - _____
PLOT DATE = Jan-13-2020 11:37:19 AM	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

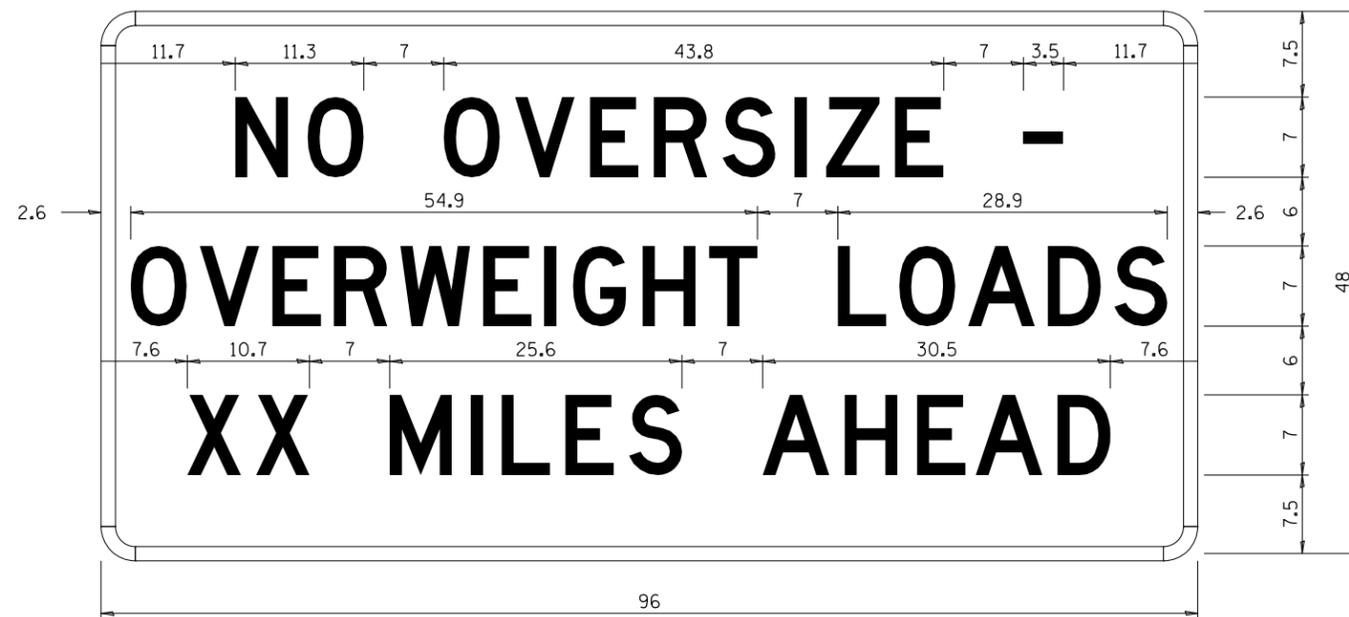
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(17R-1BR)BDR	WINNEBAGO	17	11
CONTRACT NO. 64P10				
ILLINOIS FED. AID PROJECT				



# WORK ZONE SIGN DETAILS

## ROAD CLOSED TO OVERSIZED LOADS

## STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
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COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;  
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;  
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

Sign not to scale

### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = Jan-13-2020 11:37:45 AM	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

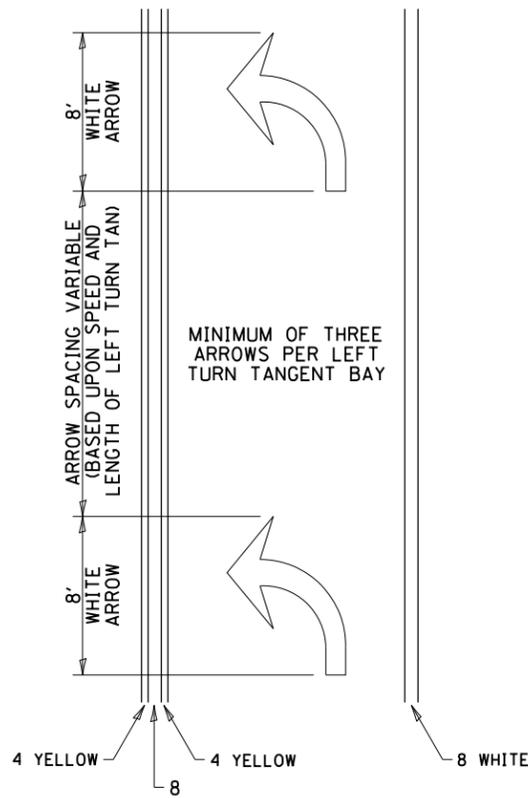
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(17R-1BR)BDR	WINNEBAGO	17	13
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ILLINOIS FED. AID PROJECT				





# TYPICAL PAVEMENT MARKINGS

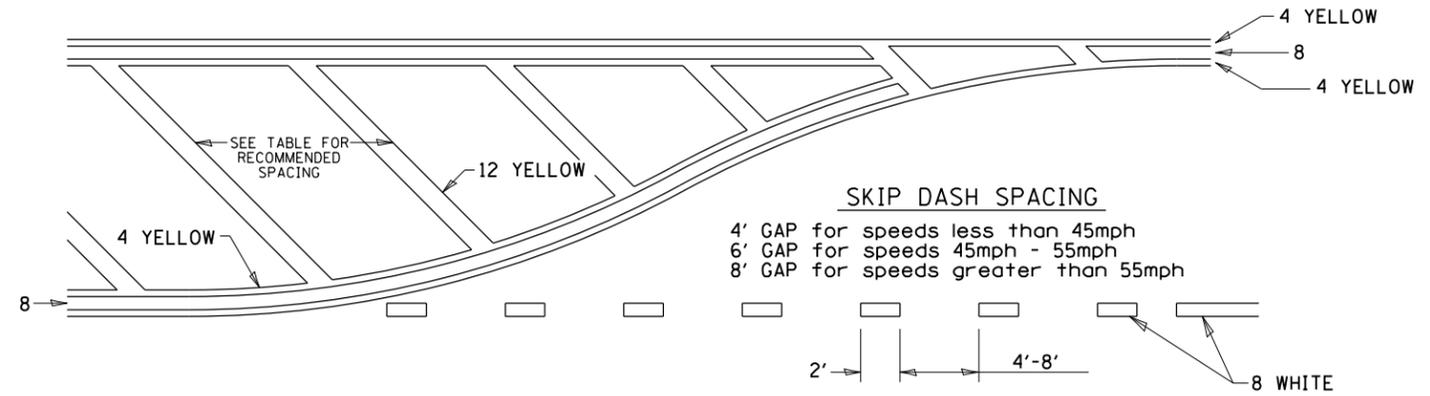
## ARROW LAYOUT



- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◇ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

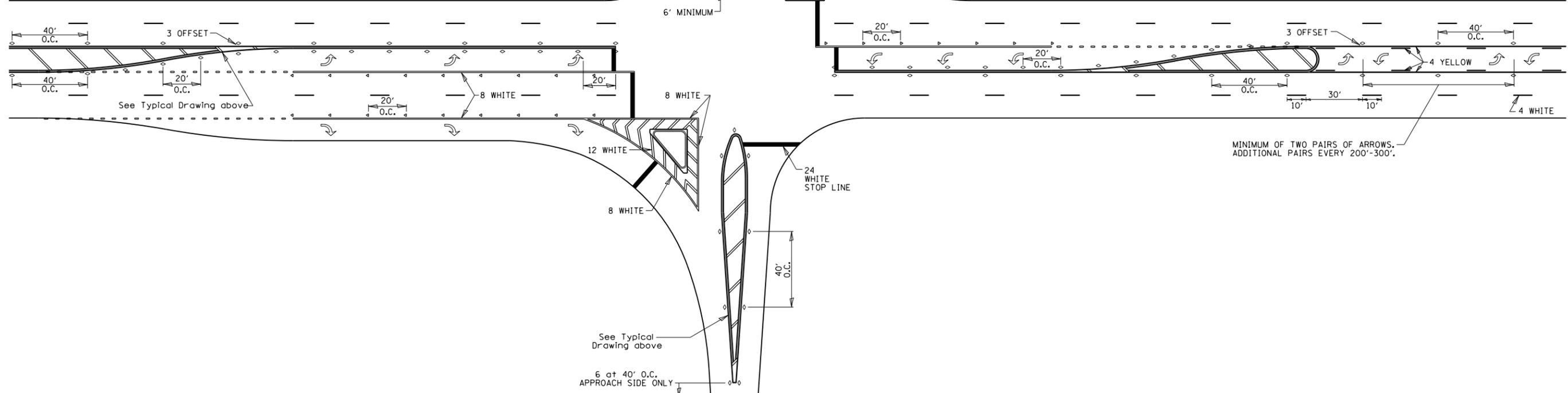
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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