

058

01-18-2019 LETTING ITEM 058

CONTRACT NO. 64M21

F.A.I. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	141-1,2,3 & 201-1CJS	OGLE/WINN	10	1

**INDEX OF SHEETS**

PAGE	SHEET
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS AND DETAILS
6-7	SCHEDULE OF QUANTITIES
8-10	TYPICAL PAVEMENT MARKINGS (DS 41.1)

**STATE STANDARDS**

001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15'(4.5M) TO 24'(6.00M) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15'(4.5M) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS ≥ 45MPH
701428-01	TRAFFIC CONTROL SET UP AND REMOVAL FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAI 39 (I-39)  
SECTION (141-1,2,3 & 201-1)CJS  
PROJECT NHPP-QXFR(868)  
ROUTING & CRACK SEALING  
OGLE / WINNEBAGO COUNTIES

C-92-060-17

D-92-029-17



**OGLE COUNTY**

DEMENT TOWNSHIP,  
SECTIONS 4,5,8,17,20,28,29,32,33

LYNNVILLE TOWNSHIP,  
SECTIONS 4,5,8,9,16,17,20,21,28,29,32,33

MONROE TOWNSHIP  
SECTIONS 5,8,17,20,29,32

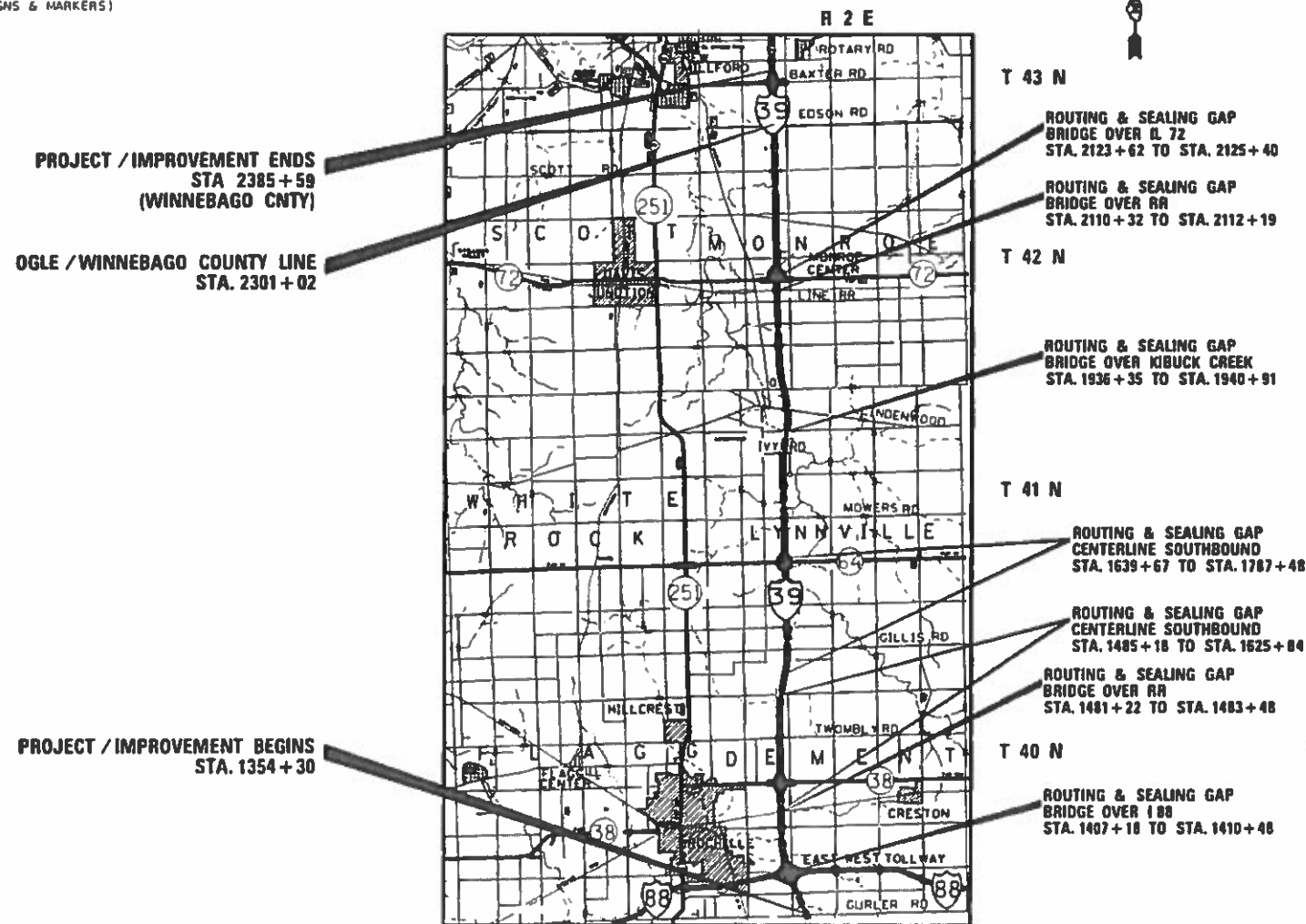
**WINNEBAGO COUNTY**

ROCKFORD TOWNSHIP  
SECTIONS 29 & 32

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

PROJECT ENGINEER: MAT DOBIE  
SQUAD TECHNICIAN: RAVI KARKI (815)-284-5904

**CONTRACT 64M21**



GROSS LENGTH = 103,129 LIN. FT. (I-39) = 19.53 MILES  
NET LENGTH = 103,129 LIN. FT. (I-39) = 19.53 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct 12, 2018  
Kevin Marchek  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7, 2018  
Paul J. Chaf  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7, 2018  
Paul J. Chaf  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

FAI 39 (I-39)

SECTION (141-1,2,3 & 201-1)CJS

OGLE /WINNEBAGO COUNTIES

DISTRICT 2, DIXON

# GENERAL NOTES

Pavement Marking shall be done according to Standard 780001, except as follows:

All words, such as ONLY, shall be 8 feet high.

All non-freeway arrows shall be the large size.

The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.

Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

The Resident Engineer shall determine exact locations where cracks are to be routed and filled.

Work on this project will be in progress at the same time as work on the Creston Road over I-39 bridge repair project (Contract # 64M77) and I-39 under Rotary Road, 1.5 miles north of Winnebago/Ogle county line (Contract # 64N30). Work on this project shall be scheduled to keep interference between all the projects to a minimum. The contractors shall inform each other of progress of the projects and give fair warning to the other contractors when a problem might be encountered.

All bridges were omitted from the routing and filling quantities.

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USER NAME = Karkir	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-39 GENERAL NOTES</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		39	(141-1,1,2,3 & 201-1)CJS	OGLE/WINN	10	2		
PLOT SCALE = 100,0002 ' / in.	CHECKED -	REVISED -				CONTRACT NO. 64M21				
PLOT DATE = 10/12/2018	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE:		
				URBAN- OGLE	RURAL- OGLE	URBAN-WINNEBAGO
				0005	0005	0005
				NHPP 90% FEDERAL 10% STATE	NHPP 90% FEDERAL 10% STATE	NHPP 90% FEDERAL 10% STATE
45100100	CRACK ROUTING (PAVEMENT)	FOOT	606,098	122,701	430,545	52,852
45100200	CRACK FILLING	POUND	173,171	35,057	123,013	15,101
67100100	MOBILIZATION	L SUM	1	0.3	0.4	0.3
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	24	8	12	4
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.3	0.4	0.3
70200100	NIGHT TIME WORK ZONE LIGHTING	L SUM	1	0.3	0.4	0.3
* 78008310	POLYUREA PAVEMENT MARKING LINE TYPE II- 4"	FOOT	412,516	86,260	292,428	33,828
* 78008330	POLYUREA PAVEMENT MARKING LINE TYPE II- 6"	FOOT	51,590	10,790	36,560	4,240
* 78008340	POLYUREA PAVEMENT MARKING LINE TYPE II- 8"	FOOT	8,000	4,000	2,000	2,000
X0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	600	120	420	60
X7010410	SPEED DISPLAY TRAILER	CAL MO	3	0.7	1.5	0.8

\* SPECIALTY ITEMS

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PLOT DATE = 10/12/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

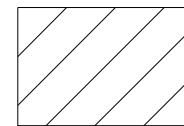
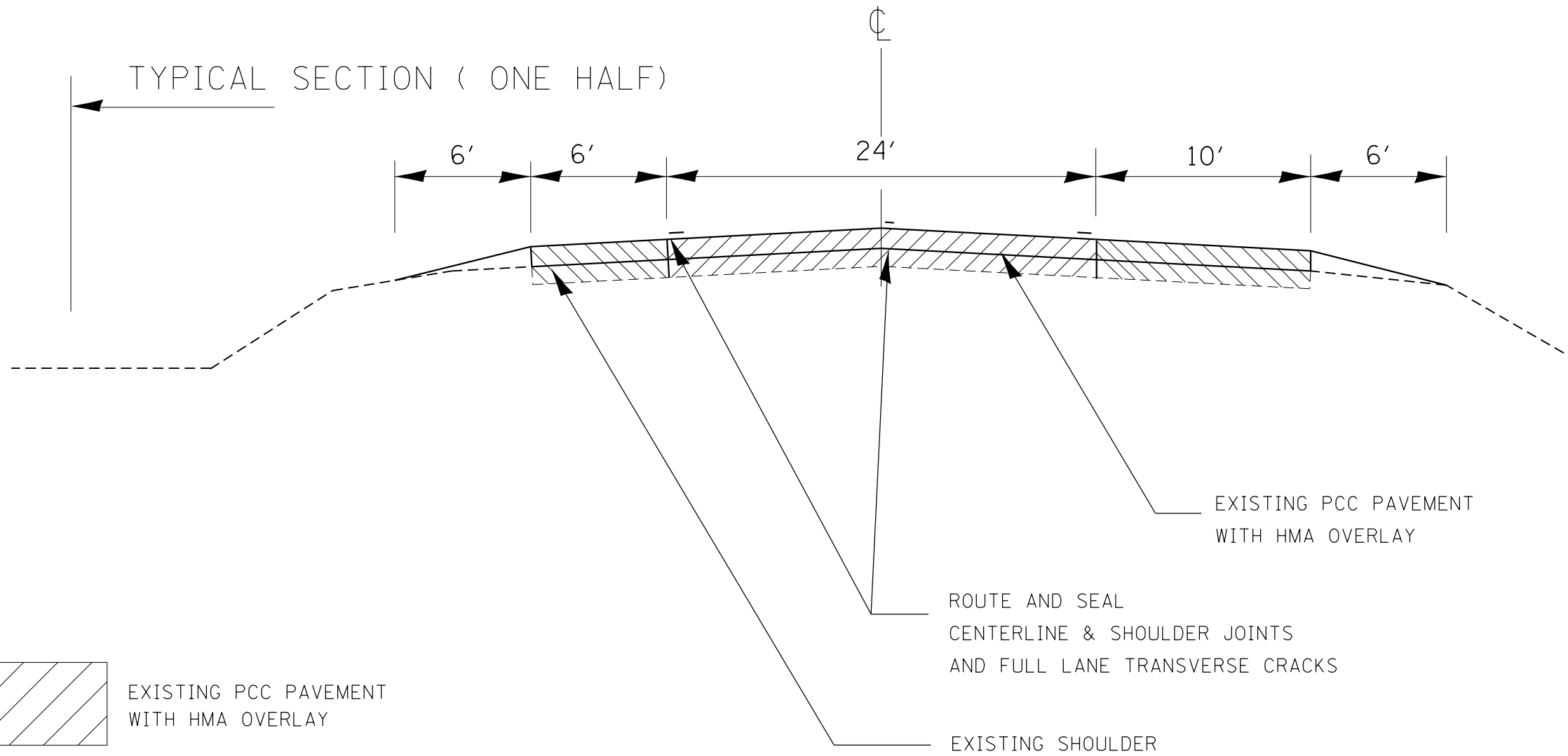
<b>I-39 SUMMARY OF QUANTITIES</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1,1,2,3 & 201-1)CJS	OGLE/WINN	10	3
CONTRACT NO. 64M21				
ILLINOIS		FED. AID PROJECT		

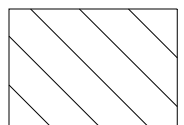
# TYPICAL SECTION

I-39

STA. 1354+30 TO STA. 2385+59



EXISTING PCC PAVEMENT WITH HMA OVERLAY



EXISTING SHOULDERS

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PLOT DATE = 10/12/2018	DATE -	REVISED -

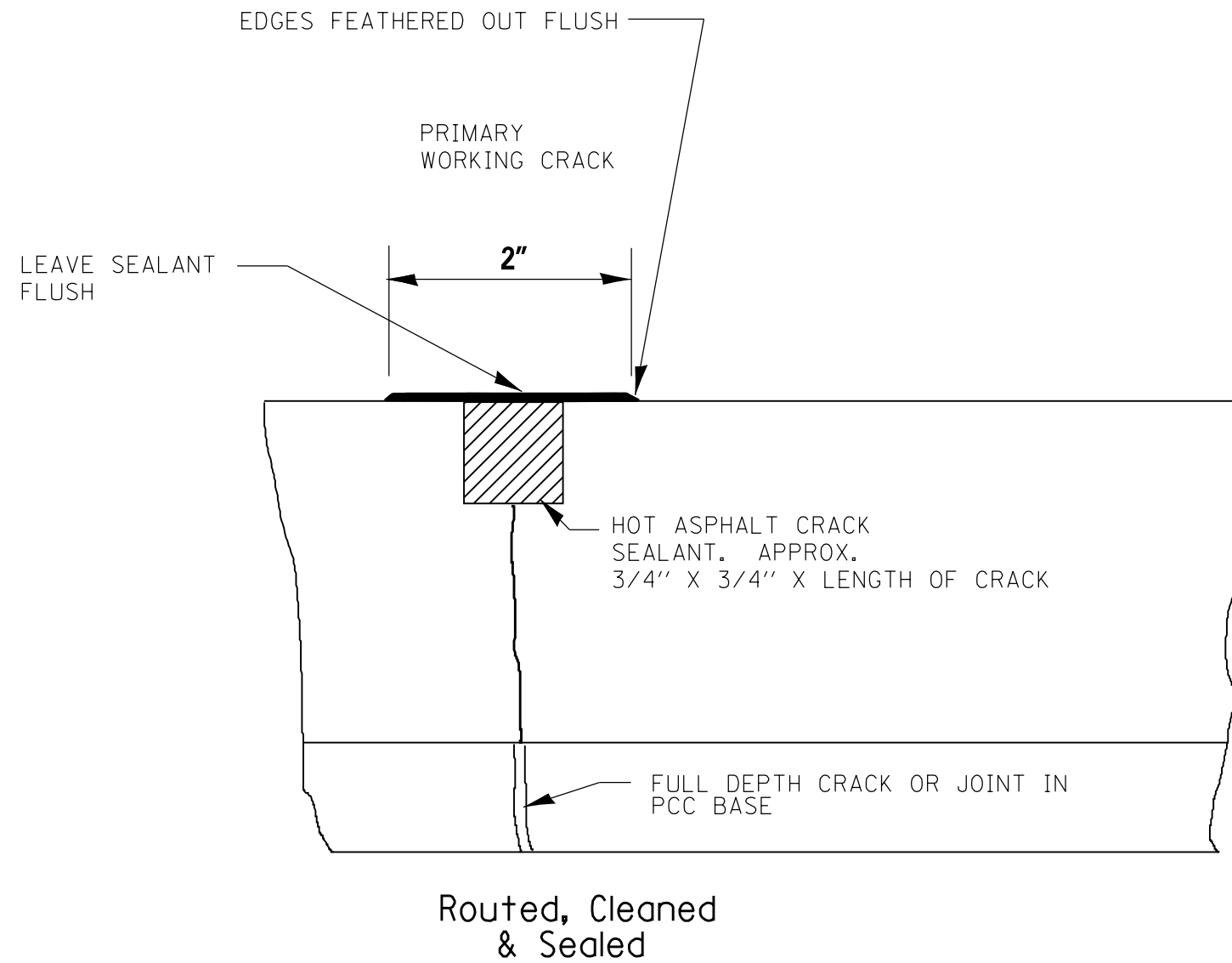
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-39  
TYPICAL SECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1,1.2,3 & 201-1)CJS	OGLE/WINN	10	4
CONTRACT NO. 64M21				
ILLINOIS FED. AID PROJECT				

# DETAIL FOR ROUTE AND SEALING OF CRACKS



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PLOT DATE = 10/12/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-39  
DETAILS SHEET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1,1,2,3 & 201-1)CJS	OGLE/WINN	10	5
CONTRACT NO. 64M21				
ILLINOIS		FED. AID PROJECT		



# SCHEDULE OF QUANTITIES

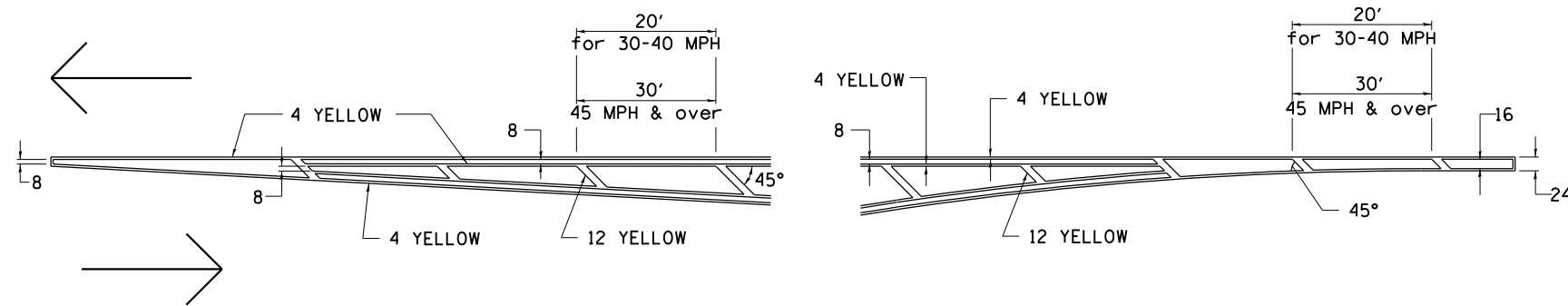
45100200	<u>CRACK FILLING</u>		<u>POUND</u>
	<u>LOCATION</u>	<u>REMARK</u>	
	OGLE COUNTY		
	Sta 1354 + 30 - 1569 + 95	NB & SB Urban including Transverse	35,057
	Sta 1569 + 95 - 2301 + 02	NB & SB Rural including Transverse	123,013
		SUB-TOTAL OGLE COUNTY	158,070
	WINNEBAGO COUNTY		
	Sta 2301 + 02 - 2385 + 59	NB & SB Urban including Transverse	15,101
		SUB-TOTAL WINNEBAGO COUNTY	15,101
		TOTAL	173,171
78008310	<u>POLYUREA PAVEMENT MARKING TYPE II - LINE 4"</u>		<u>FOOT</u>
	<u>LOCATION</u>	<u>REMARK</u>	
	OGLE COUNTY		
	Sta 1354 + 30 - 1569 + 95	NB & SB Urban - Edgeline	86,260
	Sta 1569 + 95 - 2301 + 02	NB & SB Rural - Edgeline	292,428
		SUB-TOTAL OGLE COUNTY	378,688
	WINNEBAGO COUNTY		
	Sta 2301 + 02 - 2385 + 59	NB & SB Urban - Edgeline	33,828
		SUB-TOTAL WINNEBAGO COUNTY	33,828
	*Includes striping on bridges	TOTAL	412,516
78008330	<u>POLYUREA PAVEMENT MARKING TYPE II - LINE 6"</u>		<u>FOOT</u>
	<u>LOCATION</u>	<u>REMARK</u>	
	OGLE COUNTY		
	Sta 1354 + 30 - 1569 + 95	NB & SB Urban - Centerline	10,790
	Sta 1569 + 95 - 2301 + 02	NB & SB Rural - Centerline	36,560
		SUB-TOTAL OGLE COUNTY	47,350
	WINNEBAGO COUNTY		
	Sta 2301 + 02 - 2385 + 59	NB & SB Urban - Centerline	4,240
		SUB-TOTAL WINNEBAGO COUNTY	4,240
	*Includes striping on bridges	TOTAL	51,590
78008340	<u>POLYUREA PAVEMENT MARKING TYPE II - LINE 8"</u>		<u>FOOT</u>
	<u>LOCATION</u>	<u>REMARK</u>	
	OGLE COUNTY		
	NB & SB Urban - Ramps	TBD by Engineer	4,000
	NB & SB Rural - Ramps	TBD by Engineer	2,000
		SUB-TOTAL OGLE COUNTY	6,000
	WINNEBAGO COUNTY		
	NB & SB Urban - Ramps	TBD by Engineer	2,000
		SUB-TOTAL WINNEBAGO COUNTY	2,000
	*Includes striping on bridges	TOTAL	8,000

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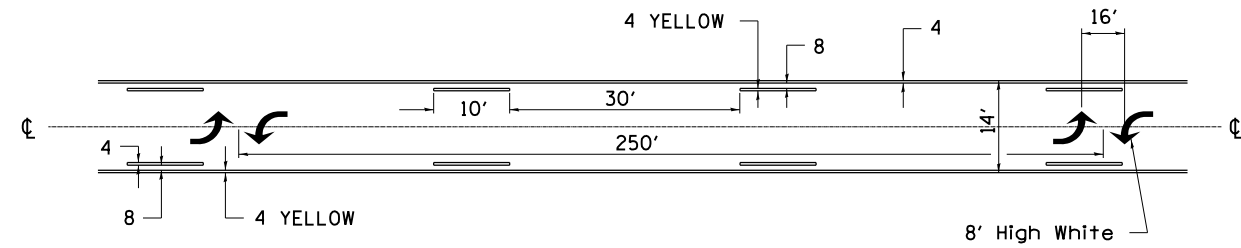
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		DRAWN -	REVISED -		39	(141-1,1.2,3 & 201-1)CJS	OGLE/WINN	10	7			
	PLOT SCALE = 100,0002 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 64M21							
	PLOT DATE = 10/12/2018	DATE -	REVISED -		ILLINOIS	FED. AID PROJECT						
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

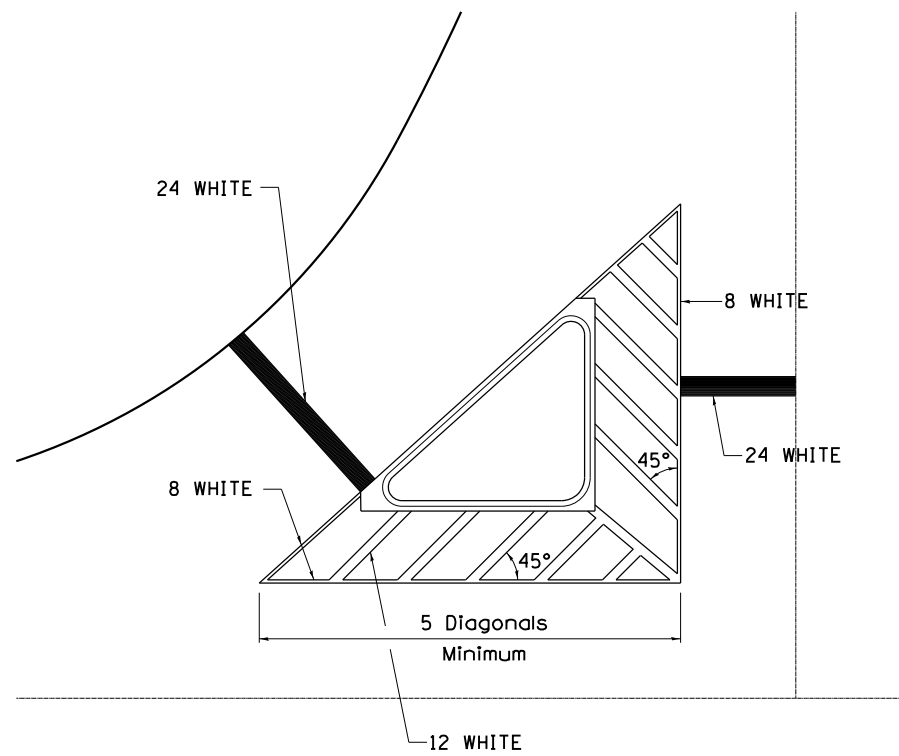


## MEDIAN PAVEMENT MARKING



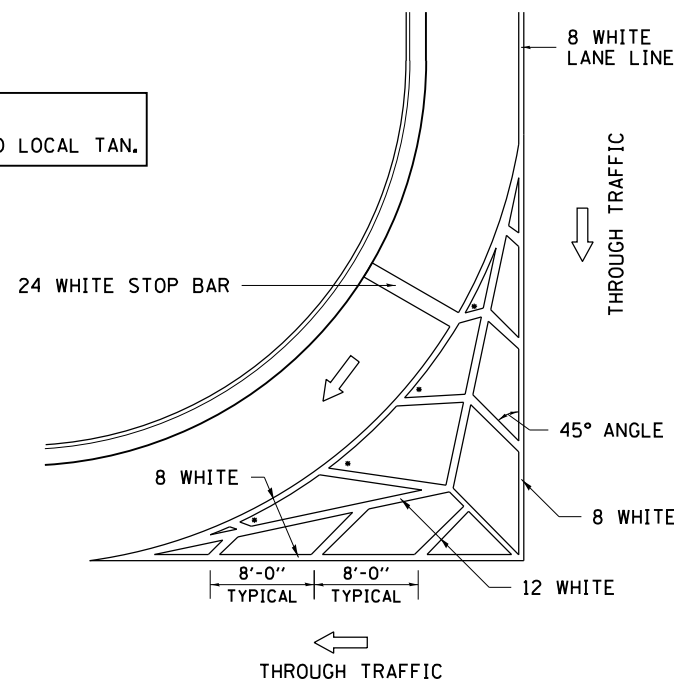
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



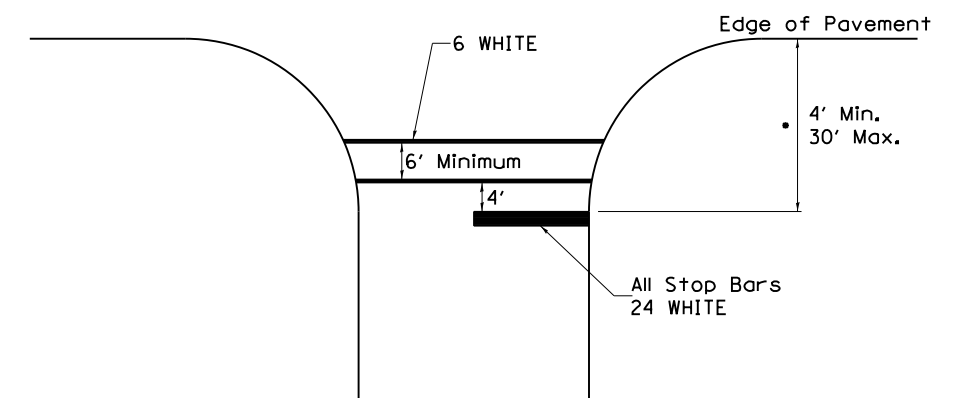
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations



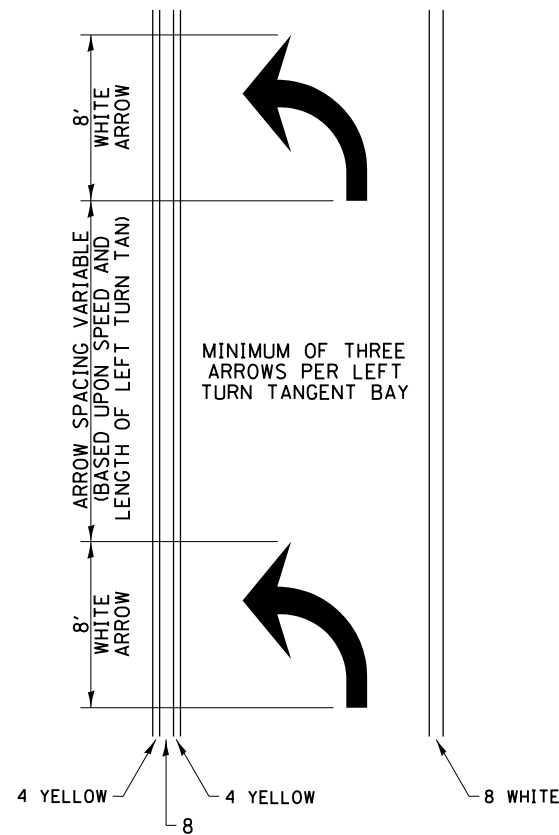
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = Karkir	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0002' / in.		DATE -	REVISED -			CONTRACT NO. 64M21				
PLOT DATE = 10/12/2018						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



# TYPICAL PAVEMENT MARKINGS

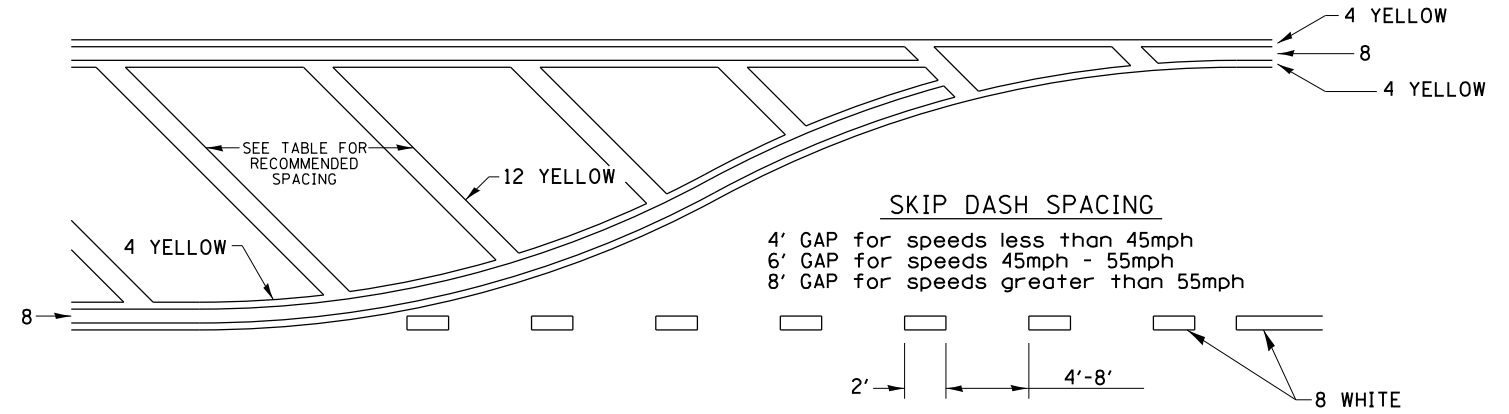
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

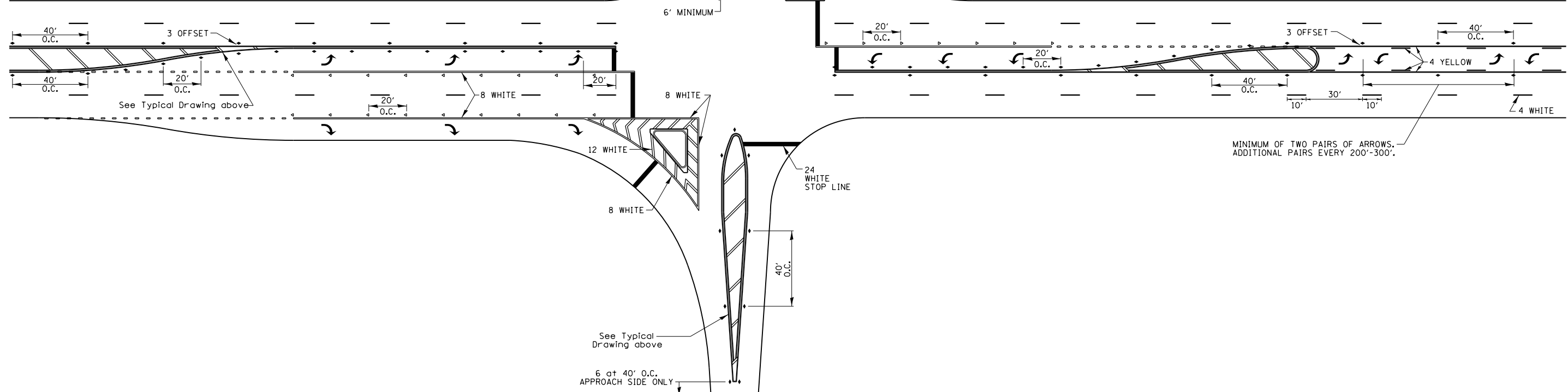
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

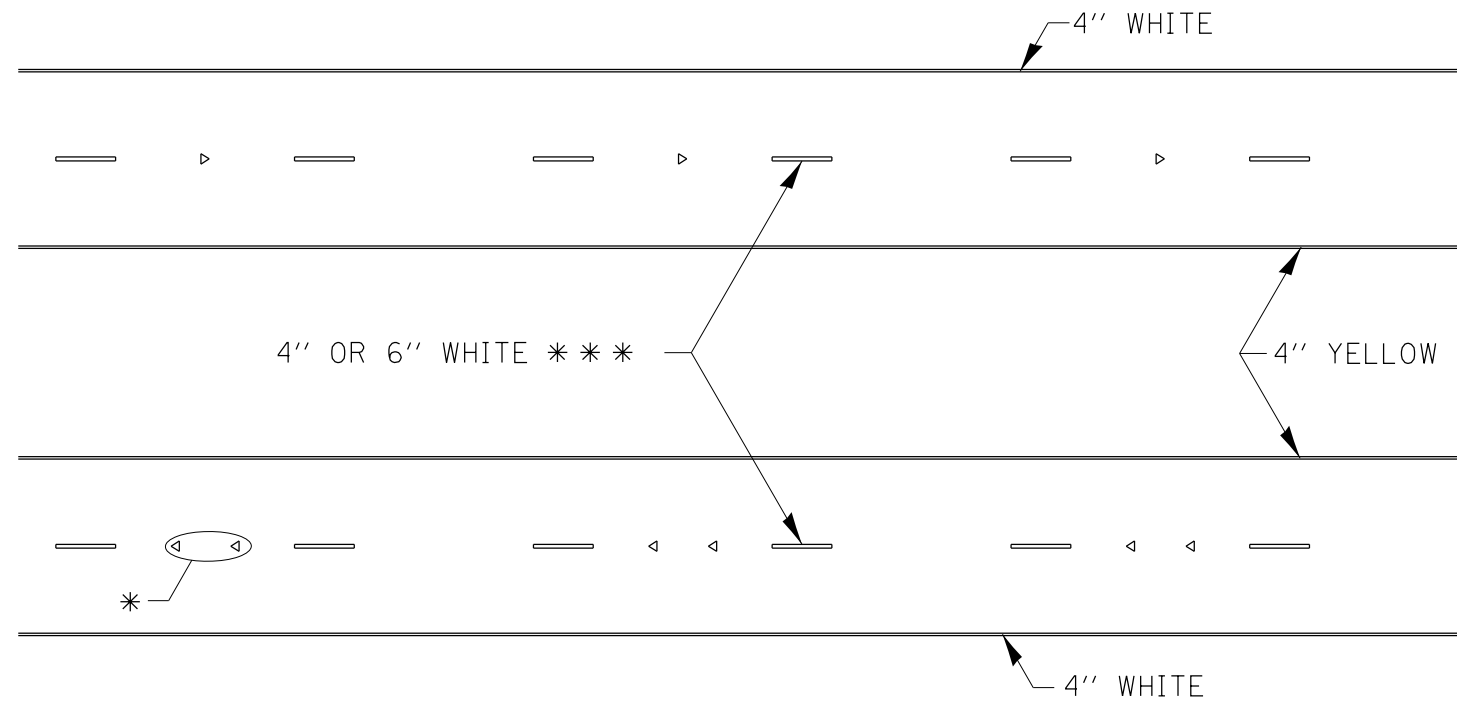
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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.



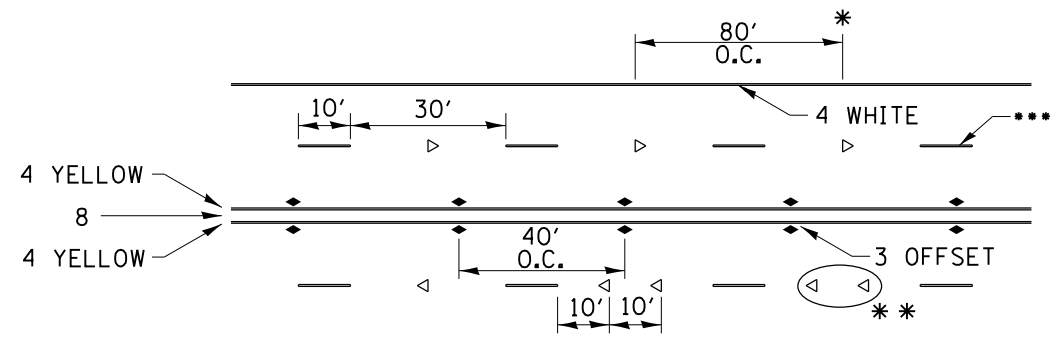
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PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISOR -	CONTRACT NO. 64M21		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
PLOT DATE = 10/12/2018	DATE -	REVISOR -	SCALE:		SHEET NO.	OF SHEETS	STA. TO STA.					

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT > 20,000.

## MULTI-LANE / DIVIDED



\* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

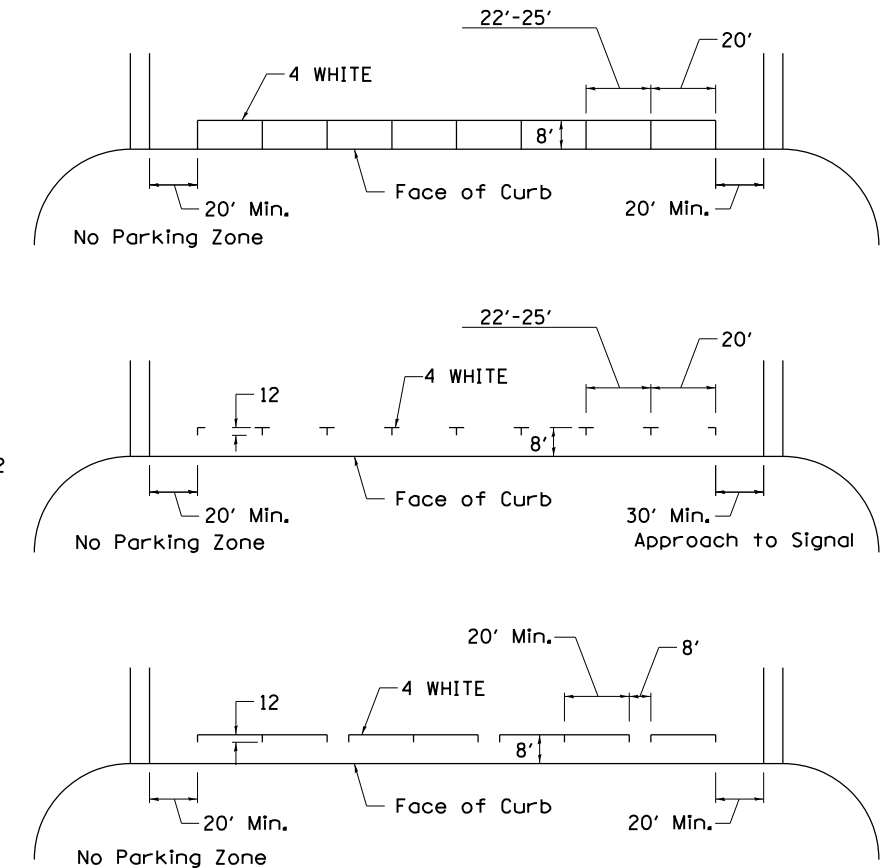
\*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000

\*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

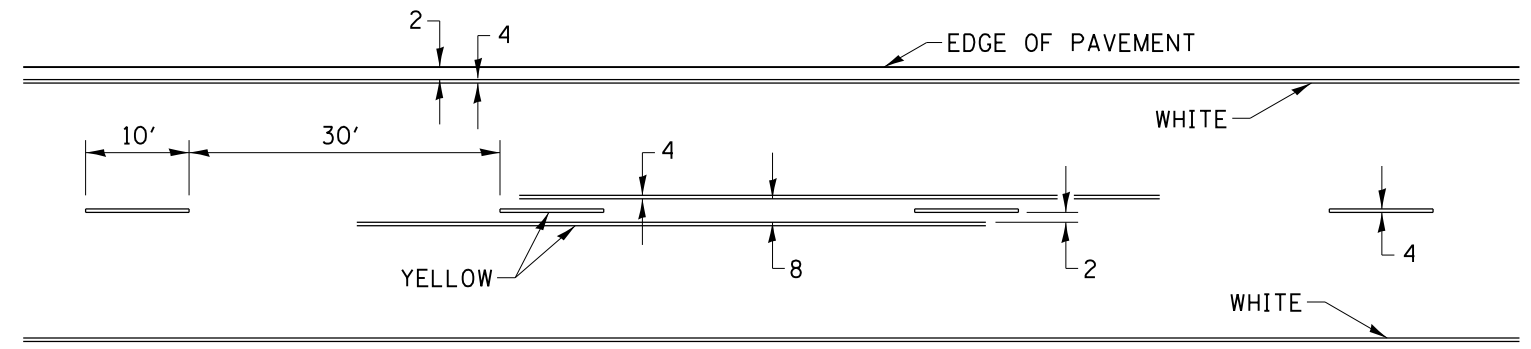
## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PARKING SPACING



## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



## SYMBOLS

FILE NAME =	USER NAME = Karkir	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -			CONTRACT NO. 64M21		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		