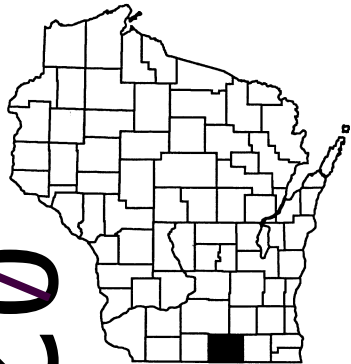


FEBRUARY 2020

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 36



DESIGN DESIGNATION 1093-01-31

A.A.D.T.	2021	=	15900
A.A.D.T.	2041	=	18967
D.H.V.		=	
D.D.		=	58/42
T.		=	12.4%
DESIGN SPEED		=	70 MPH
ESALS		=	

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	---
LOT LINE	---
LIMITED HIGHWAY EASEMENT	---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SLOPE INTERCEPT	---
REFERENCE LINE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

PROFILE	
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---
GRADE ELEVATION	---
CULVERT (Profile View)	---
UTILITIES	
ELECTRIC	---
FIBER OPTIC	---
GAS	---
SANITARY SEWER	---
STORM SEWER	---
TELEPHONE	---
WATER	---
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BELOIT - ELKHORN

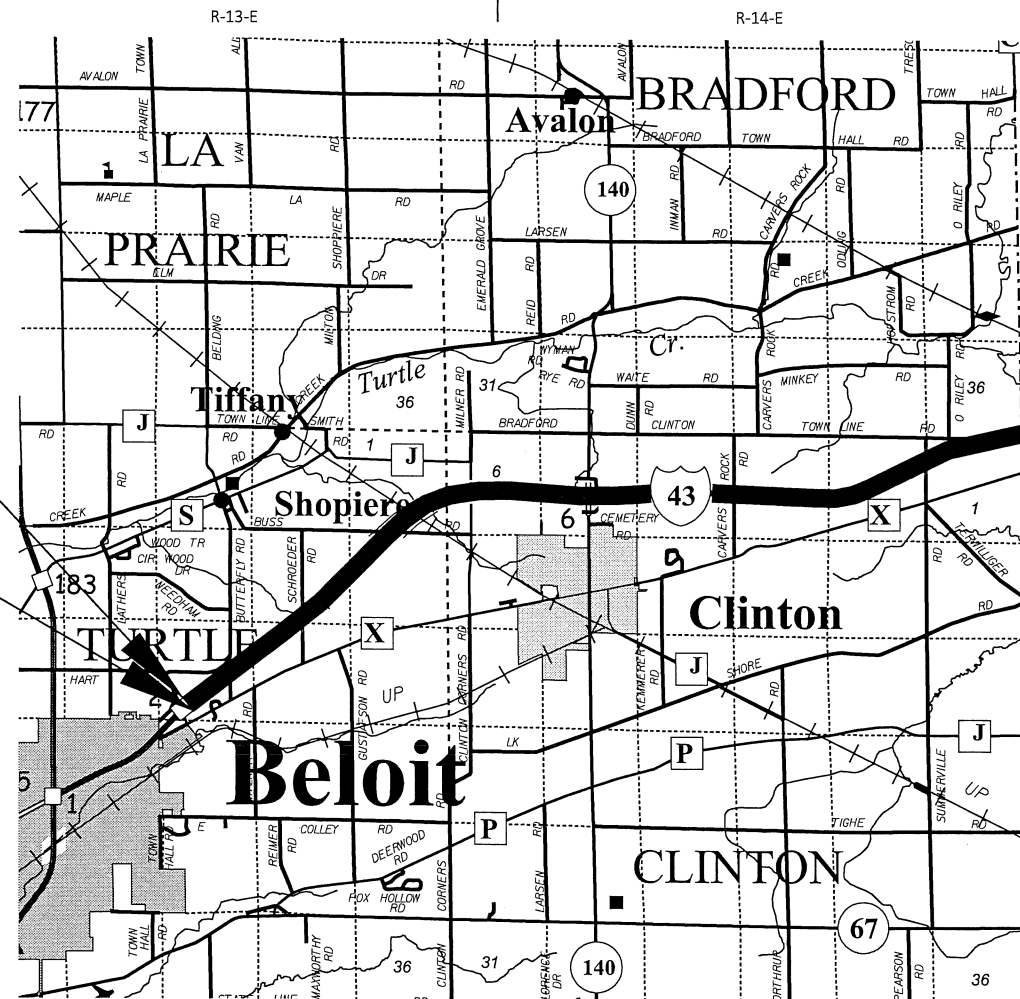
IH 39 TO E COUNTY LINE

IH 43

ROCK COUNTY

STATE PROJECT NUMBER

1093-01-61



LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 9.685 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ROCK COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT

1093-01-61

FEDERAL PROJECT

PROJECT

CONTRACT

END CONSTRUCTION
STA 681+35"SB"

END PROJECT
STA 683+86"NB"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	JIM BLYSTONE
Project Manager	JIM SIMPSON
Regional Examiner	SW REGION
Regional Supervisor	KURT JOHNSON

APPROVED FOR THE DEPARTMENT

DATE: 01-24-19
(Signature)

E

AT&T WISCONSIN

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CELL: 920-475-2799
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CHARTER COMMUNICATIONS

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MADISON, WI 53718
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WISDOT ITS CONTACT

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FRONTIER COMMUNICATIONS

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ATC MANAGEMENT, INC.

MIKE OLSEN
801 O'KEEFE RD
P.O. BOX 6113
DE PERE, WI 54115-6113
PHONE: 920-338-6582
EMAIL: molsen@atcllc.com

ALLIANT ENERGY - GAS/PETROLEUM

MICHAEL BROLIN
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EMAIL: MichaelBrolin@alliantenergy.com

ROCK ENERGY COOPERATIVES

TONY HAFFELDER
2815 KENNEDY RD.
JANESVILLE, WI. 53545
PHONE: 608-752-4550
EMAIL: lynnm@rock.coop

WINDSTREAM KDL, LLC

KEVIN PARRIS
1858 WRIGHT ST
MADISON, WI 53704
PHONE: 608-819-5016
EMAIL: kevin.j.parris@windstream.com



ABBREVIATIONS

AEW APRON ENDWALL
 AGG AGGREGATE
 BAD BASE AGGREGATE DENSE
 BM BENCH MARK
 C&G CURB AND GUTTER
 C/L CENTER OR CONSTRUCTION LINE
 CMCP CULVERT PIPE CORRUGATED METAL DESIGN CONC CONCRETE
 CP CULVERT PIPE
 CPRC CULVERT PIPE REINFORCED CONCRETE
 CSD CONCRETE SURFACE DRAIN
 CY CUBIC YARD
 D DEGREE OF CURVE
 Δ DELTA
 DISCH DISCHARGE
 EAT ENERGY ABSORBING TERMINAL
 FE FIELD ENTRANCE
 HMA HOT MIX ASPHALT
 INV INVERT
 L LENGTH OF CURVE
 LHF LEFT HAND FORWARD
 LT LEFT
 MIN MINIMUM
 M/L MATCHLINE
 NB NORTHBOUND
 NC NORMAL CROWN
 PAVT PAVEMENT
 PC POINT OF CURVE
 PCC POINT OF COMPOUND CURVE
 PE PRIVATE ENTRANCE
 PI POINT OF INTERSECTION
 PLE PERMANENT LIMITED EASEMENT
 PT POINT OF TANGENT
 R RADIUS OF CURVE
 R/L REFERENCE LINE
 RC REVERSE CROWN
 RCAEW APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
 RHF RIGHT HAND FORWARD
 RO RUN OFF LENGTH
 RRSP RAILROAD SPIKE
 RT RT
 SALV SALVAGED
 SAPBC SALVAGED ASPHALTIC PAVEMENT BASE COURSE
 SB SOUTHBOUND
 SDD STANDARD DETAIL DRAWINGS
 SE SUPER ELEVATION
 SF SQUARE FOOT
 SSPRC STORM SEWER PIPE REINFORCED CONCRETE
 STA STATION
 SY SQUARE YARD
 T TANGENT LENGTH
 TLE TEMPORARY LIMITED EASEMENT
 VCL VERTICAL CURVE LENGTH
 VPC POINT OF VERTICAL CURVE
 VPI POINT OF VERTICAL INTERSECTION
 VPT POINT OF VERTICAL TANGENT

GENERAL NOTES

THE ENGINEER WILL DETERMINE ANY DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN.

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE COLLECTED TO BE PROPERLY DISPOSED OF PRIOR TO REOPENING LANES TO TRAFFIC.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

STRUCTURES THAT HAVE A CONCRETE DECK SHALL NOT HAVE SEALANT APPLIED TO THEM. THE PROJECT ENGINEER WILL DETERMINE IF THEY WILL HAVE PAVEMENT MARKINGS APPLIED OR NOT.

PROJECT NO:	1093-01-61
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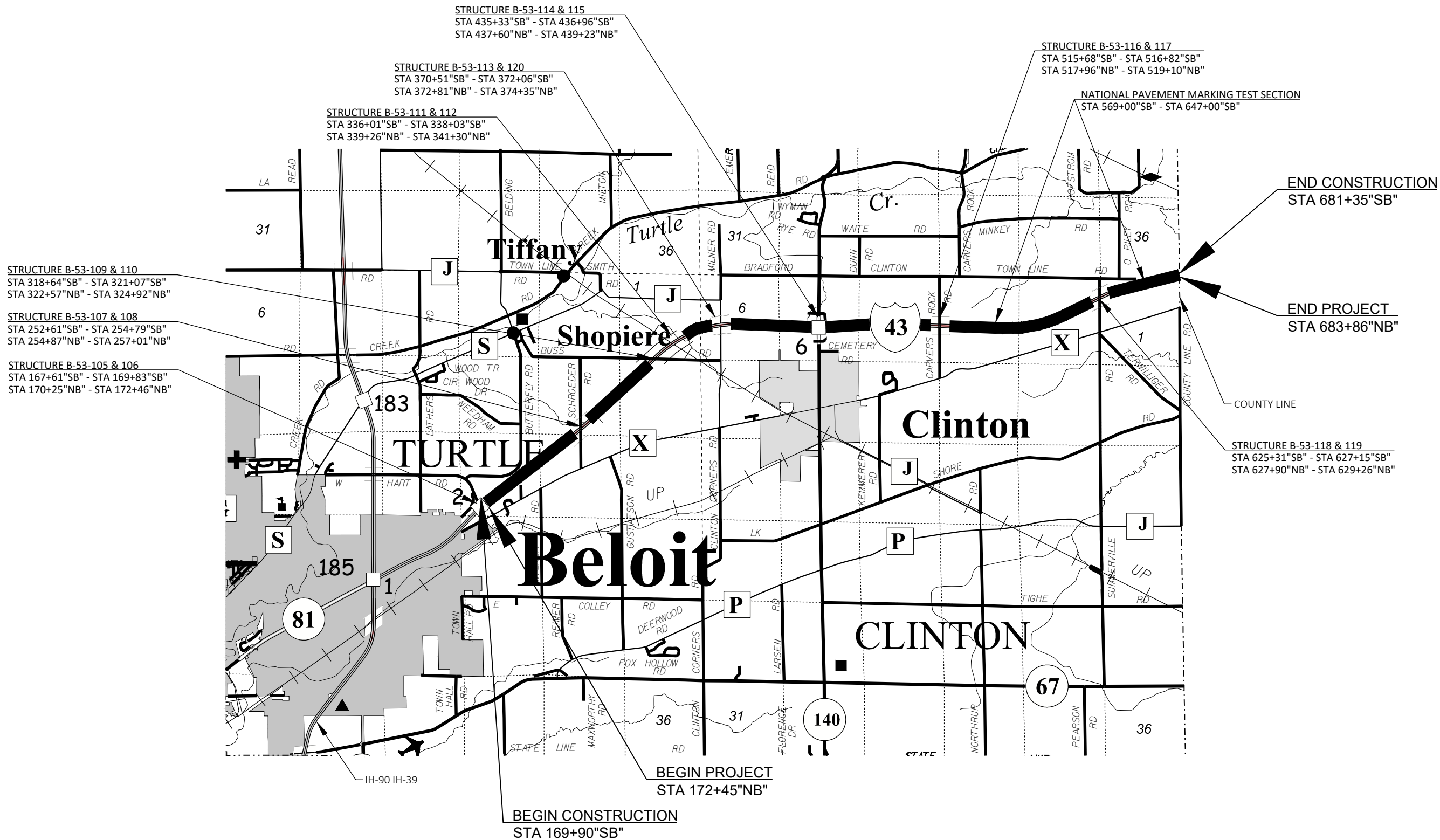
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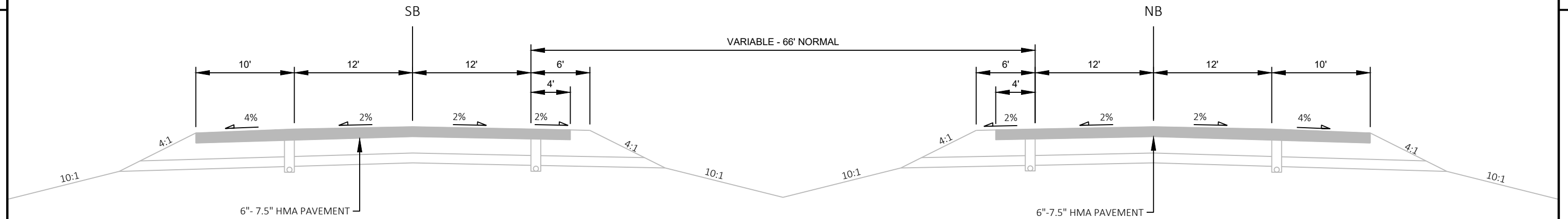
COUNTY: ROCK

GENERAL NOTES

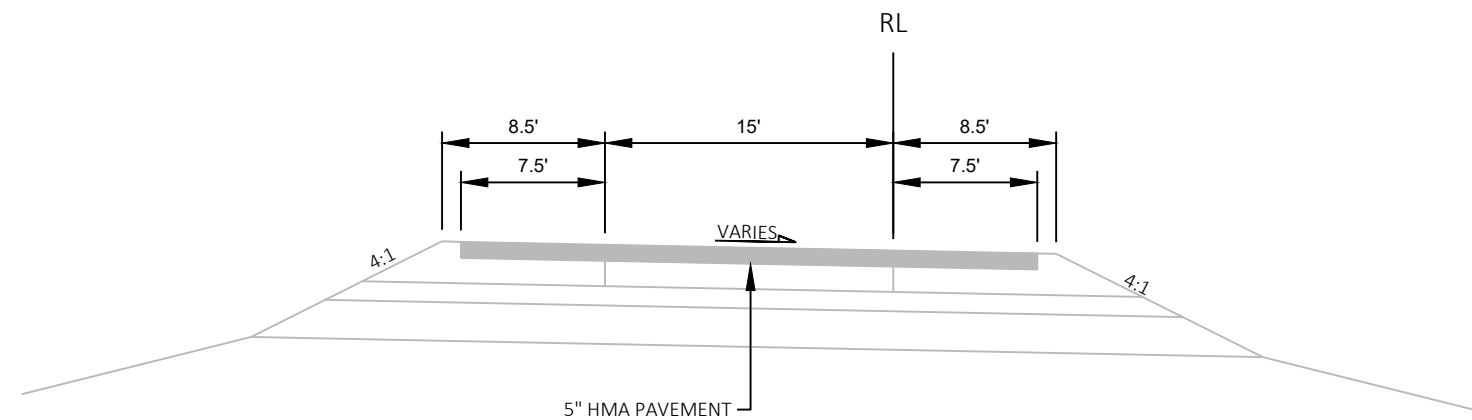
SHEET

E





TYPICAL EXISTING SECTION
I.H. 43



TYPICAL EXISTING SECTION
RAMPS

TYPICAL SECTIONS ARE NOT TO SCALE

PROJECT NO: 1093-01-61

HWY: IH 43

COUNTY: ROCK

PLAN: TYPICAL SECTIONS

SHEET

E

FILE NAME : N:\PDS\C3D\10930131\SHEETSP\020301_TS.DWG
LAYOUT NAME - 01

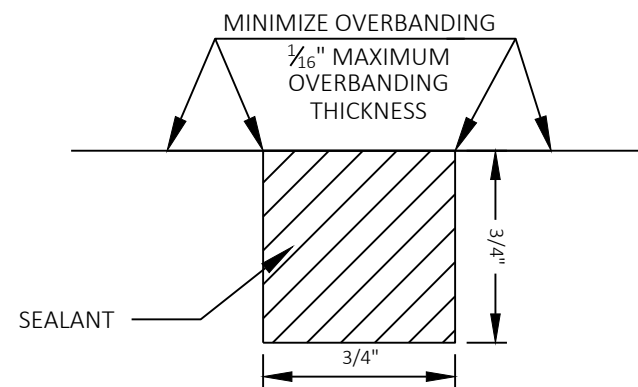
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PLOT BY : SCHMIDT, DAVID B

PLOT NAME :

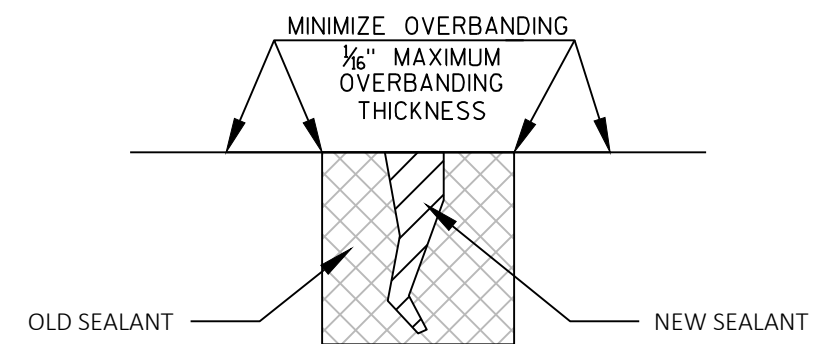
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDs SHEET 42



ROUT AND SEAL DETAIL

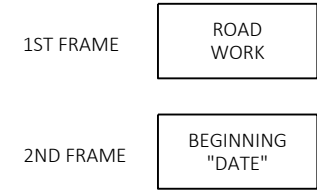
ROUT AND SEAL ALL CENTERLINE,
LONGITUDINAL, AND TRANSVERSE CRACKS
NOT PREVIOUSLY SEALED



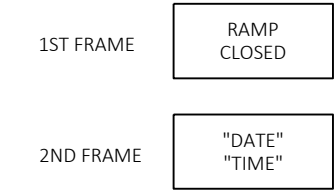
CRACK RE-SEAL DETAIL

RE-SEAL, OR ROUT AND SEAL, PREVIOUSLY SEALED
CRACKS THAT ARE FAILING AS DIRECTED BY THE ENGINEER

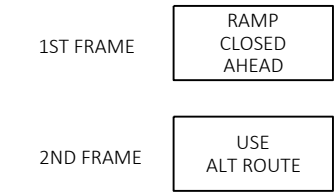
MAINLINE WORK PRE-WARNING



RAMP CLOSURE PRE-WARNING



RAMP CLOSURE



NOTE: FIELD ENGINEER MAY CHANGE PCMS
MESSAGING BASED ON FIELD CONDITIONS.

Estimate Of Quantities

1093-01-61

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	643.1050	Traffic Control Signs PCMS	DAY	48.000	48.000
0006	643.5000	Traffic Control	EACH	1.000	1.000
0008	646.1020	Marking Line Epoxy 4-Inch	LF	251,690.000	251,690.000
0010	646.3020	Marking Line Epoxy 8-Inch	LF	7,555.000	7,555.000
0012	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	2,000.000	2,000.000
0014	SPV.0045	Special 01. Traffic Control - Single Lane Closure	DAY	10.000	10.000
0016	SPV.0060	Special 01. Traffic Control - Ramp	EACH	6.000	6.000
0018	SPV.0125	Special 01. Routing and Sealing Asphalt Pavement Cracks	MI	20.000	20.000

3

MARKING LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 LF	REMARKS
0010	172+45"NB"	-	683+90"NB"	IH-43	51,150	YELLOW
0010	172+45"NB"	-	183+58"NB"	IH-43	1,115	WHITE
0010	198+00"NB"	-	421+12"NB"	IH-43	22,300	WHITE
0010	427+26"NB"	-	449+40"NB"	IH-43	2,215	WHITE
0010	461+46"NB"		683+86"NB"	IH-43	22,250	WHITE
0010	178+22"CA"		190+00"CA"	RAMP CA	1,550	WHITE
0010	179+78"CB"	-	197+00"CB"	RAMP CB	2,000	WHITE
0010	100+00"SB"		145+05"SB"	IH-43	4,500	WHITE
0010	100+00"SB"		681+35"SB"	IH-43	58,150	YELLOW
0010	157+30"SB"		181+89"SB"	IH-43	2,460	WHITE
0010	190+06"SB"		410+09"SB"	IH-43	22,010	WHITE
0010	424+94"SB"		447+22"SB"	IH-43	2,225	WHITE
0010	456+89"SB"		681+35"SB"	IH-43	22,460	WHITE
0010	440+00"KA"		458+00"KA"	RAMP KA	2,790	WHITE
0010	440+00"KB"		461+00"KB"	RAMP KB	3,000	WHITE
0010	421+00"KC"	-	436+00"KC"	RAMP KC	2,560	WHITE
0010	410+00"KD"		434+50"KD"	RAMP KD	3,375	WHITE
0010	172+45"NB"	-	683+90"NB"	IH-43	12,790	CENTERLINE
0010	169+90"SB"	-	681+50"SB"	IH-43	12,790	CENTERLINE
TOTAL 0010					251,690	

SPECIAL.01 ROUTING AND SEALING ASPHALT PAVT. CRACKS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0125 MI	REMARKS
0010	172+45"NB"	-	683+90"NB"	IH-43 NB	10.00	
0010	169+90"SB"	-	569+00"SB"	IH-43 SB	7.50	
0010	647+00"SB"		681+50"SB"	IH-43 SB	0.60	
0010	178+22"CA"	-	190+00"CA"	HART RD INTERCHANGE	0.20	
0010	179+78"CB"	-	197+00"CB"	HART RD INTERCHANGE	0.30	
0010	440+00"KA"	-	458+00"KA"	STH 140 INTERCHANGE	0.35	
0010	440+00"KB"	-	461+00"KB"	STH 140 INTERCHANGE	0.40	
0010	421+00"KC"	-	436+00"KC"	STH 140 INTERCHANGE	0.25	
0010	410+00"KD"	-	434+25"KD"	STH 140 INTERCHANGE	0.50	
TOTAL 0010					20	

MARKING LINE EPOXY 8-INCH

CATEGORY	STATION	TO	STATION	LOCATION	646.3020 LF	REMARKS
0010	183+58"NB"	-	193+60"NB"	IH-43	1,000	
0010	423+94"NB"	-	427+26"NB"	IH-43	330	
0010	449+40"NB"	-	458+03"NB"	IH-43	865	
0010	181+88"CA"	-	184+86"CA"	RAMP CA	300	
0010	182+62"CB"	-	192+60"CB"	RAMP CB	1,000	
0010	181+89"SB"	-	184+91"SB"	IH-43	300	
0010	415+58"SB"	-	424+94"SB"	IH-43	935	
0010	447+22"SB"	-	450+69"SB"	IH-43	350	
0010	448+33"KA"	-	451+80"KA"	RAMP KA	350	
0010	448+96"KB"	-	457+57"KB"	RAMP KB	865	
0010	423+83"KC"	-	427+09"KC"	RAMP KC	330	
0010	415+48"KD"	-	424+77"KD"	RAMP KD	930	
TOTAL 0010					7,555	

TEMPORARY MARKING LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	649.0120 LF	REMARKS
0010	100+00"SB"	-	681+23"SB"	IH-43	1000	CENTERLINE (WHITE)
0010	100+00"NB"	-	683+82"NB"	IH-43	1000	CENTERLINE (WHITE)
TOTAL 0010					2000	

3

SPECIAL(01. TRAFFIC CONTROL - SINGLE LANE CLOSURE)

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0045.01	REMARKS
					DAY	
0010	169+90"SB"	-	681+23"SB"	IH-43	5	
0010	172+45"NB"	-	683+82"NB"	IH-43	5	
TOTAL 0010					10	

SPECIAL(01. TRAFFIC CONTROL - RAMP)

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.01	REMARKS
					EACH	
0010	174+00"CA"	-	190+00"CA"	HART RD INTERCHANGE	1	
0010	175+00"CB"	-	197+00"CB"	HART RD INTERCHANGE	1	
0010	440+00"KA"	-	458+00"KA"	STH 140 INTERCHANGE	1	
0010	440+00"KB"	-	461+00"KB"	STH 140 INTERCHANGE	1	
0010	421+00"KC"	-	436+00"KC"	STH 140 INTERCHANGE	1	
0010	410+00"KD"	-	434+25"KD"	STH 140 INTERCHANGE	1	
TOTAL 0010					6	

MOBILIZATION

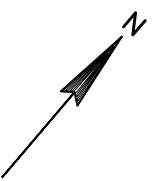
CATEGORY	LOCATION	619.1000	REMARKS
		EACH	
0010	PROJECT	1	
TOTAL 0010		1	

TRAFFIC CONTROL

CATEGORY	LOCATION	643.5000	REMARKS
		EACH	
0010	PROJECT	1	
TOTAL 0010		1	

TRAFFIC CONTROL SIGNS PCMS

CATEGORY	LOCATION	643.1050	REMARKS
		DAY	
0010	PROJECT	48	
TOTAL 0010		48	



BEGIN PROJECT
STA 169+90"SB"

BEGIN CONSTRUCTION
STA 178+22"NB"



BEGIN PROJECT
STA 172+45"NB"

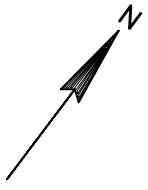
ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

BEGIN CONSTRUCTION
STA 179+78"NB"

TRAFFIC CONTROL:
REFER TO THE FOLLOWING SDDs:
-15C02-07D - ON RAMP LANE CLOSURE
-15C02-07E - OFF RAMP LANE CLOSURE
-15C19-05C - MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

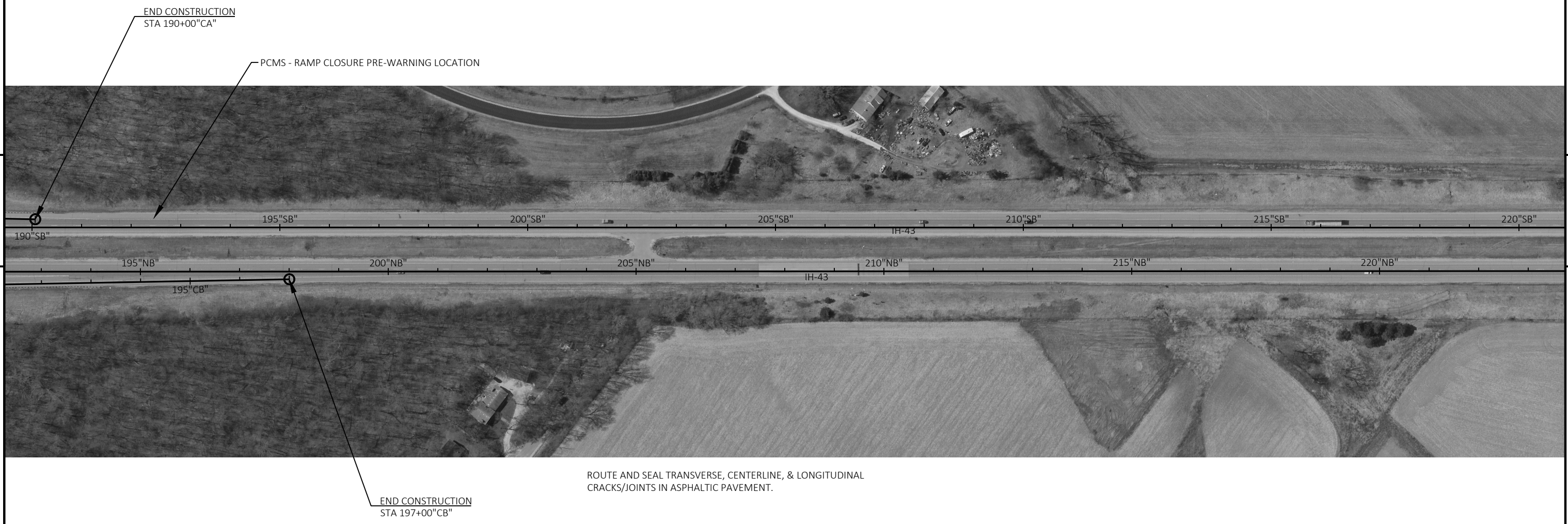
PAVEMENT MARKINGS:
REFERE TO THE FOLLOWING SDDs:
-15C08-19A - LONGITUDINAL MARKING (MAINLINE)
-15C31-03A - PAVEMENT MARKING (RAMPS AND GORES)
-15C31-03C - PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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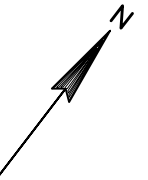
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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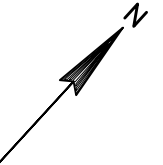
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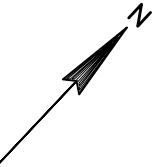
ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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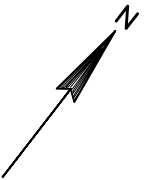
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.



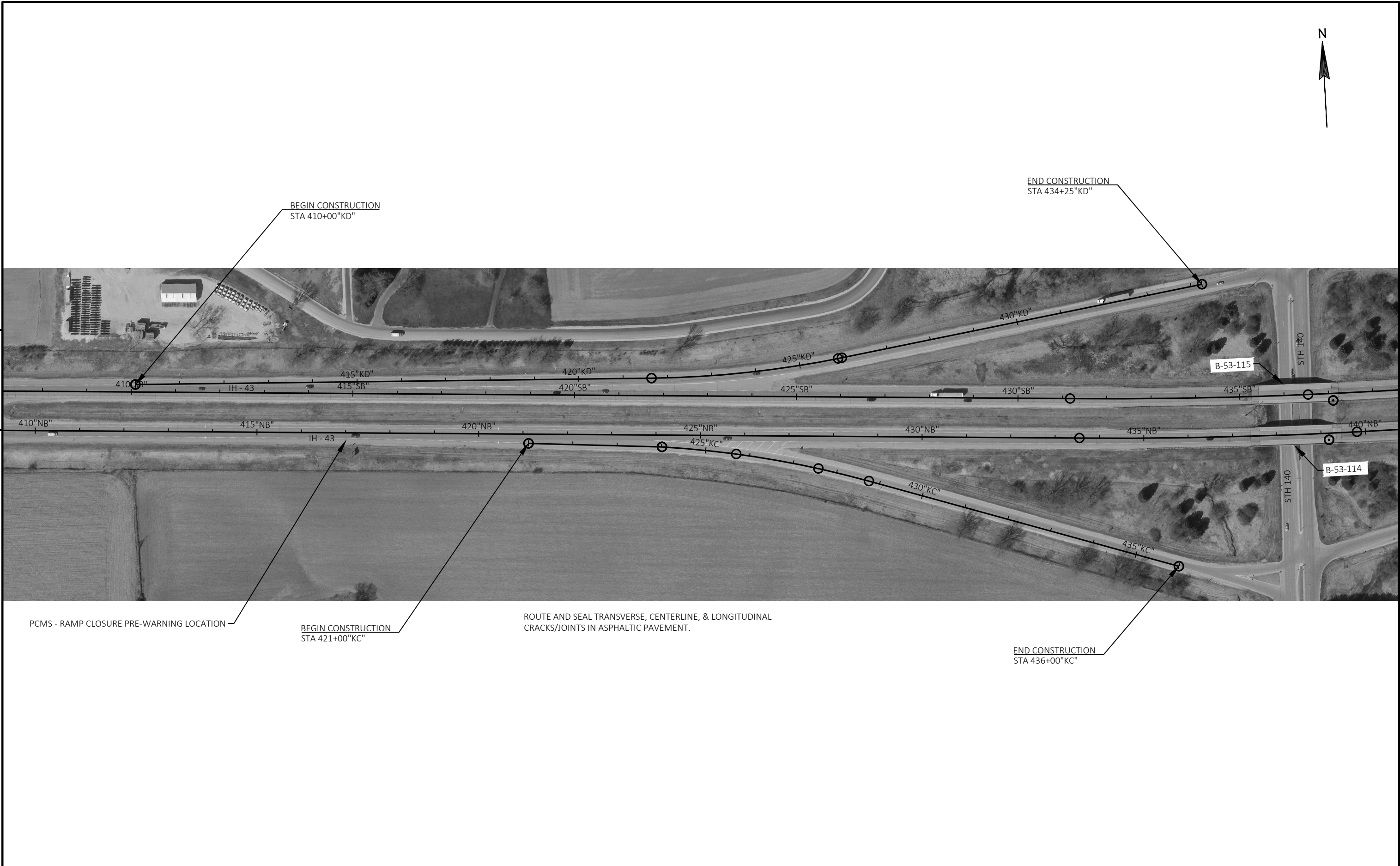
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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BEGIN CONSTRUCTION
STA 440+00"KA"

END CONSTRUCTION
STA 458+00"KA"

PCMS - RAMP CLOSURE PRE-WARNING LOCATION

5

5



BEGIN CONSTRUCTION
STA 440+00"KB"

ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

END CONSTRUCTION
STA 461+00"KB"

PROJECT NO: 1093-01-61

HWY: IH 43

COUNTY: ROCK

PLAN SHEET

SHEET

E

FILE NAME : N:\PDS\C3D\10930131\SHEETSPLAN\050201_PN.DWG
LAYOUT NAME - 12

PLOT DATE : 2/1/2019 10:52 AM

PLOT BY : SCHMIDT, DAVID B

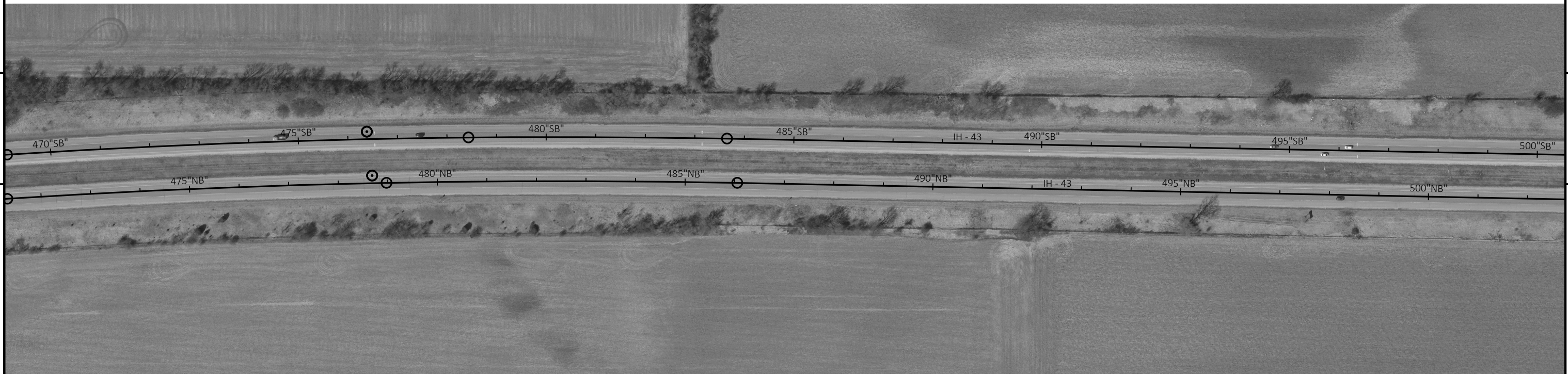
PLOT NAME :

PLOT SCALE : #####

WISDOT/CADDs SHEET 44



5



5

ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.



5



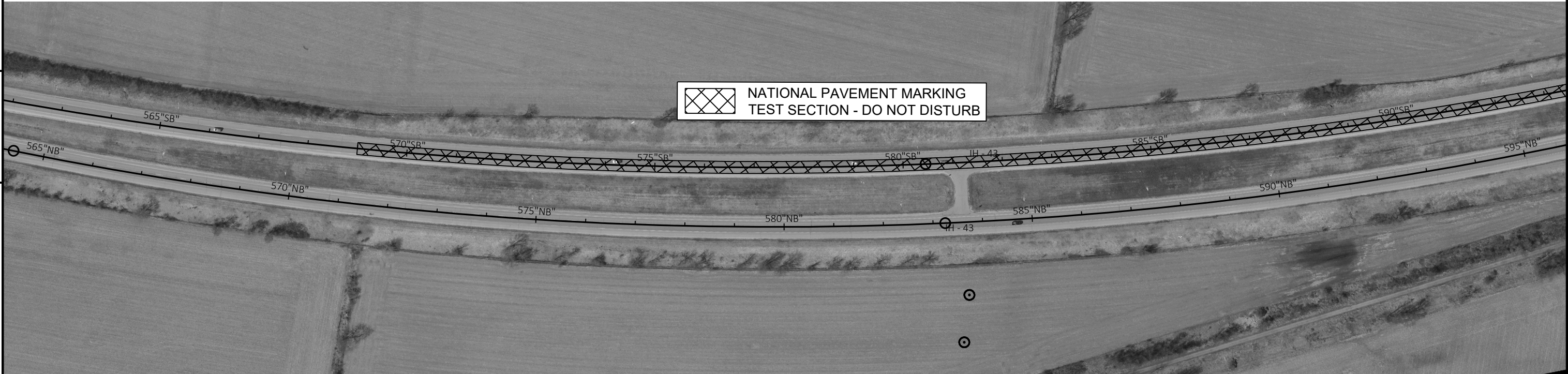
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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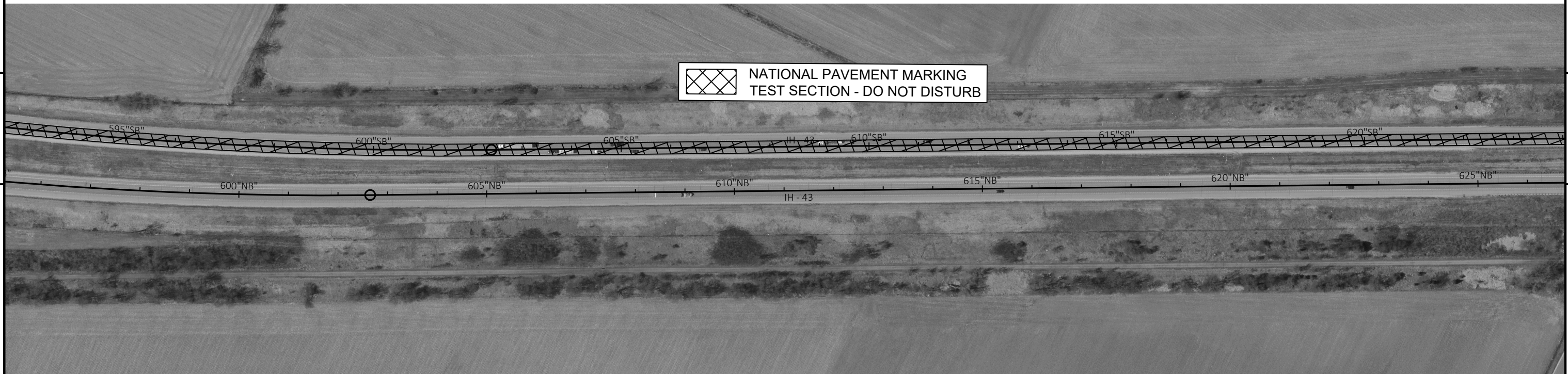
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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5



5

ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

PROJECT NO: 1093-01-61	HWY: IH 43	COUNTY: ROCK	PLAN SHEET	SHEET	E
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PCMS - PRE-CONSTRUCTION
WARNING LOCATION

END PROJECT
STA 681+35"SB"



ROUTE AND SEAL TRANSVERSE, CENTERLINE, & LONGITUDINAL
CRACKS/JOINTS IN ASPHALTIC PAVEMENT.

END PROJECT
STA 683+86"NB"

PROJECT NO: 1093-01-61

HWY: IH 43

COUNTY: ROCK

PLAN SHEET

SHEET

E

FILE NAME : N:\PDS\C3D\10930131\SHEETSPLAN\050201_PN.DWG
LAYOUT NAME - 19

PLOT DATE : 2/1/2019 10:52 AM

PLOT BY : SCHMIDT, DAVID B

PLOT NAME :

PLOT SCALE : #####

WISDOT/CADDs SHEET 44

Standard Detail Drawing List



15C02-07D	ON RAMP LANE CLOSURE
15C02-07E	OFF RAMP LANE CLOSURE
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C19-05C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-03C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS









EXIT RAMP
CLOSURE

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL
TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING
SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

SEE SDD 15D16
FOR RAMP CLOSURE

LEGEND

 SIGN ON PERMANENT SUPPORT
 PORTABLE CHANGEABLE MESSAGE SIGN

 MO4 - 5
 M1 - 4 OR  M1 - 6 OR  M1 - 5A
 MO5 - 1 OR  MO5 - 2 OR  MO6 - 1 OR  MO6 - 2

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR
TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE
ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE,
ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE
EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS.
MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED
TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET
CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL
" IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY
THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS
MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

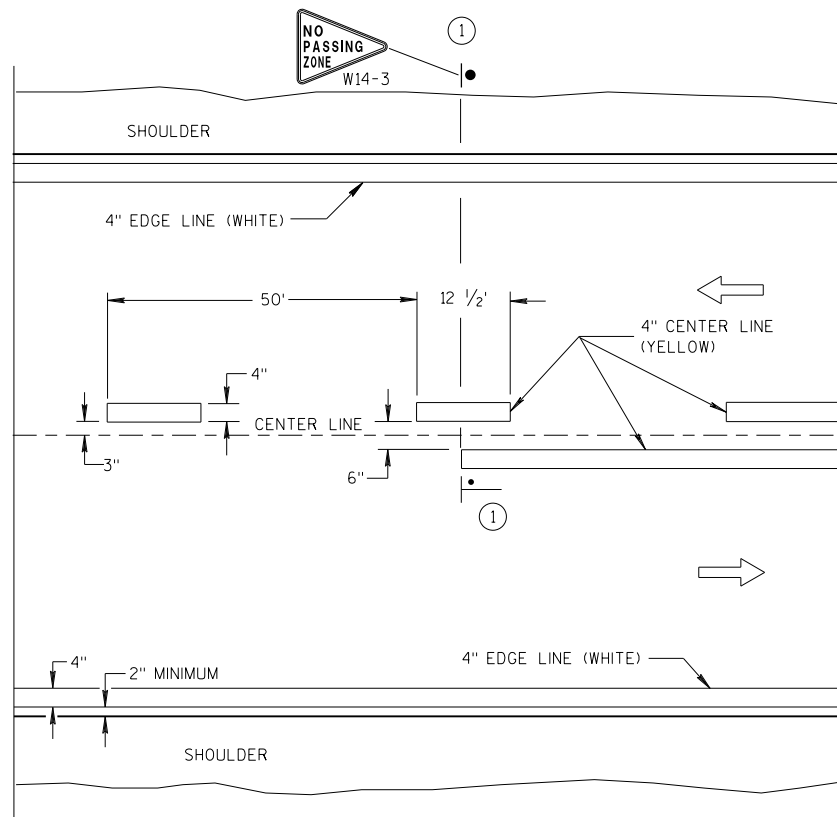
SIGN SIZES SHALL BE AS FOLLOW:
MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH
EXISTING SIGNS).
MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO
MATCH EXISTING SIGNS).

OFF RAMP
LANE CLOSURE

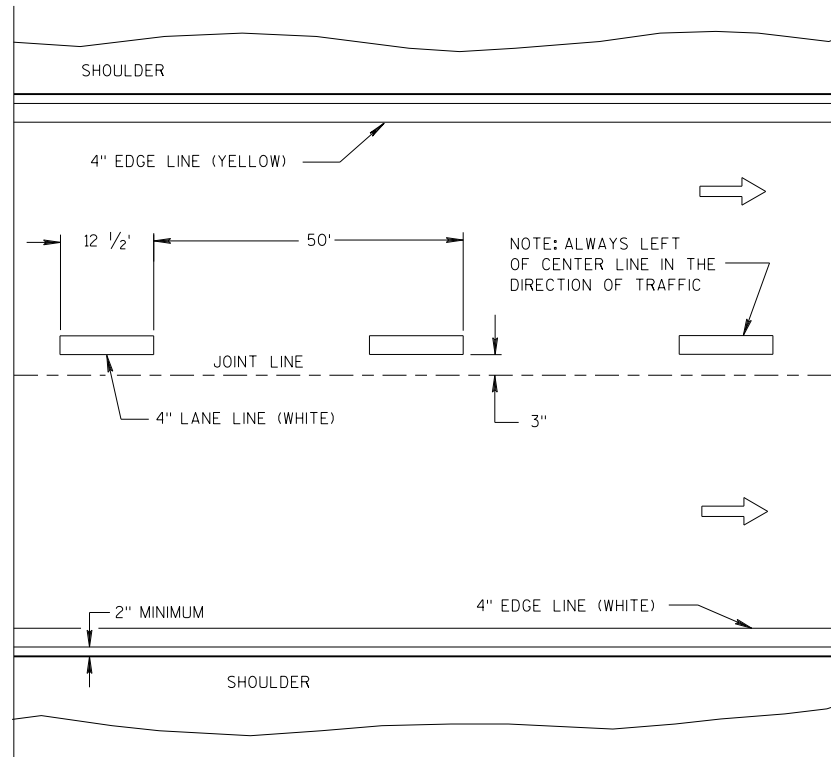
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

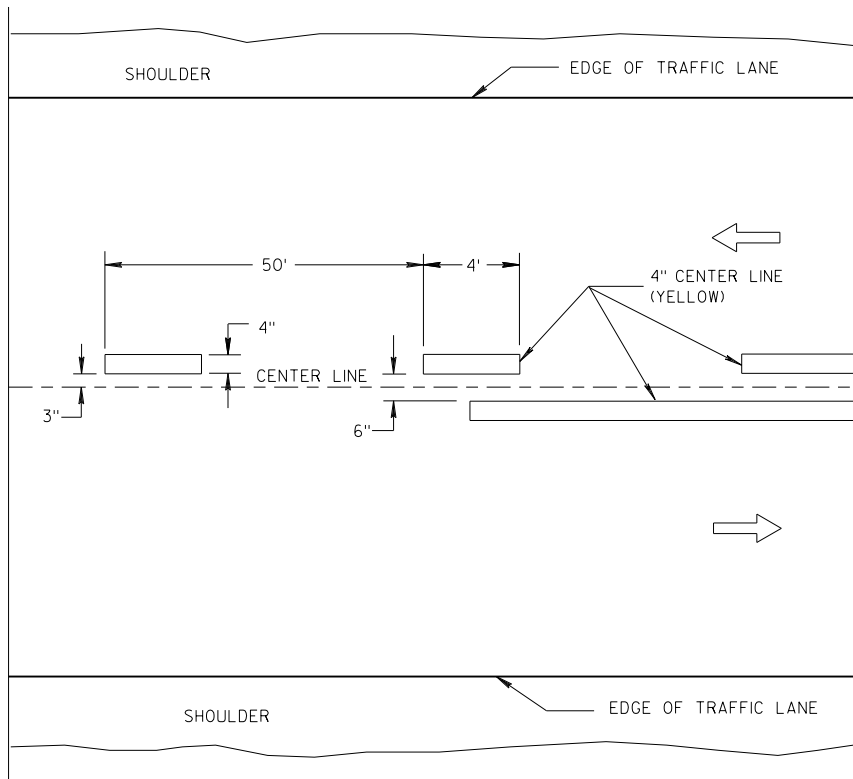


TWO WAY TRAFFIC

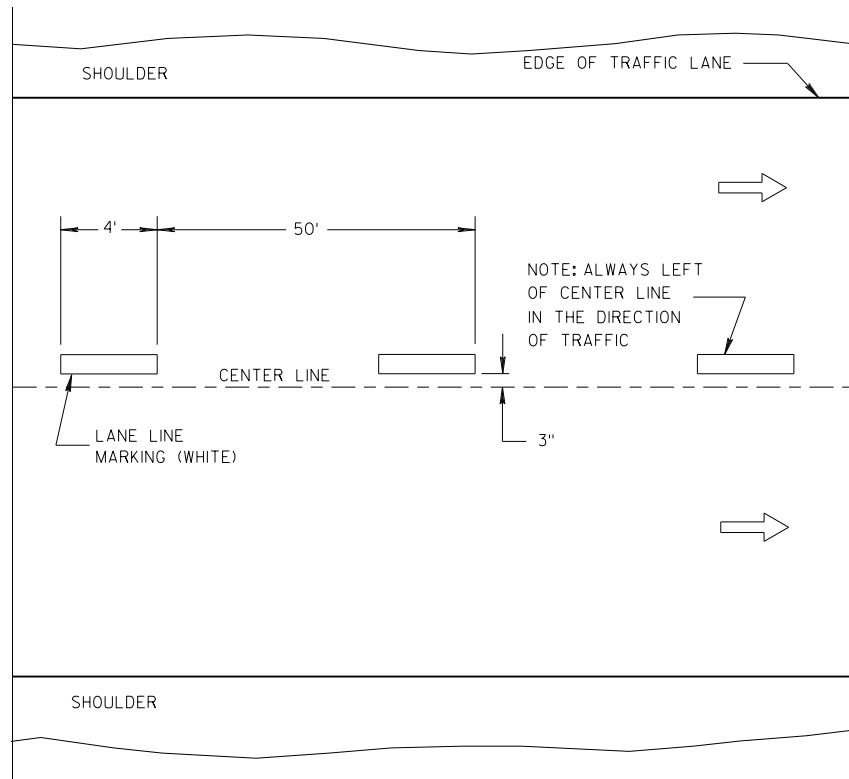


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

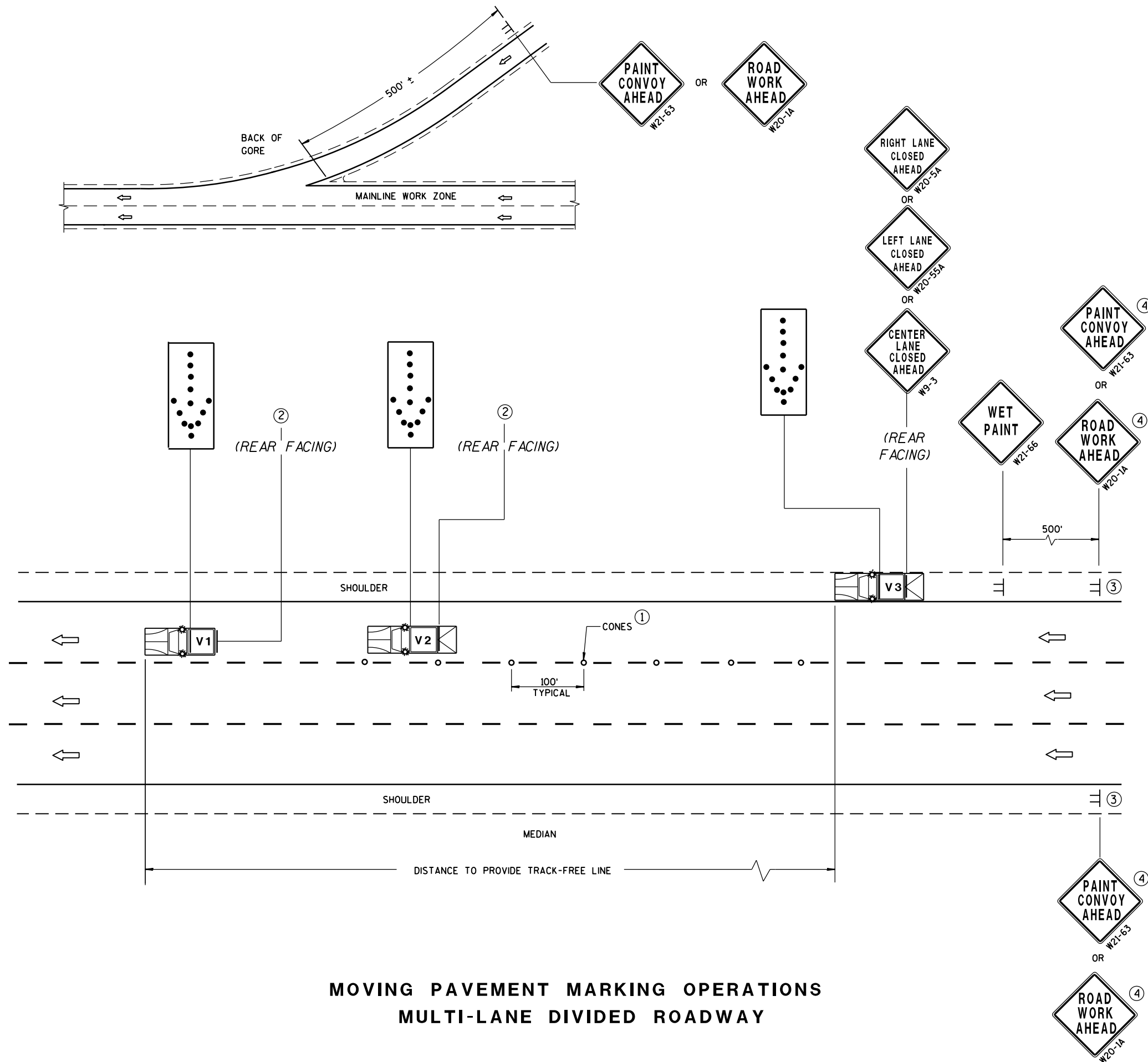
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.


USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.


WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.


W21-64

OR



W21-64
- ③ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ④ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

 **TMA** TRUCK-MOUNTED ATTENUATOR

☐ SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

○ CONES



FLASHING
ARROW
PANEL (MERGE)

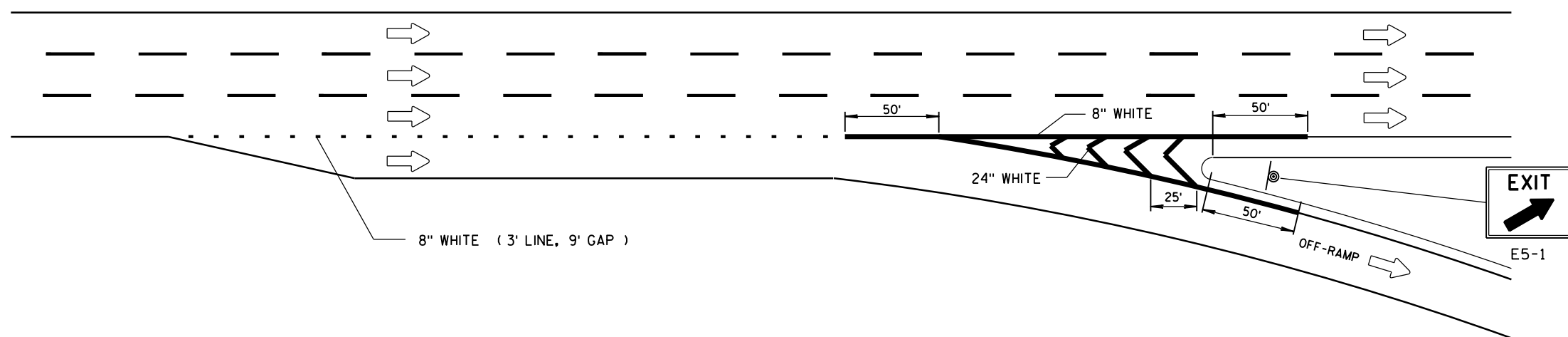
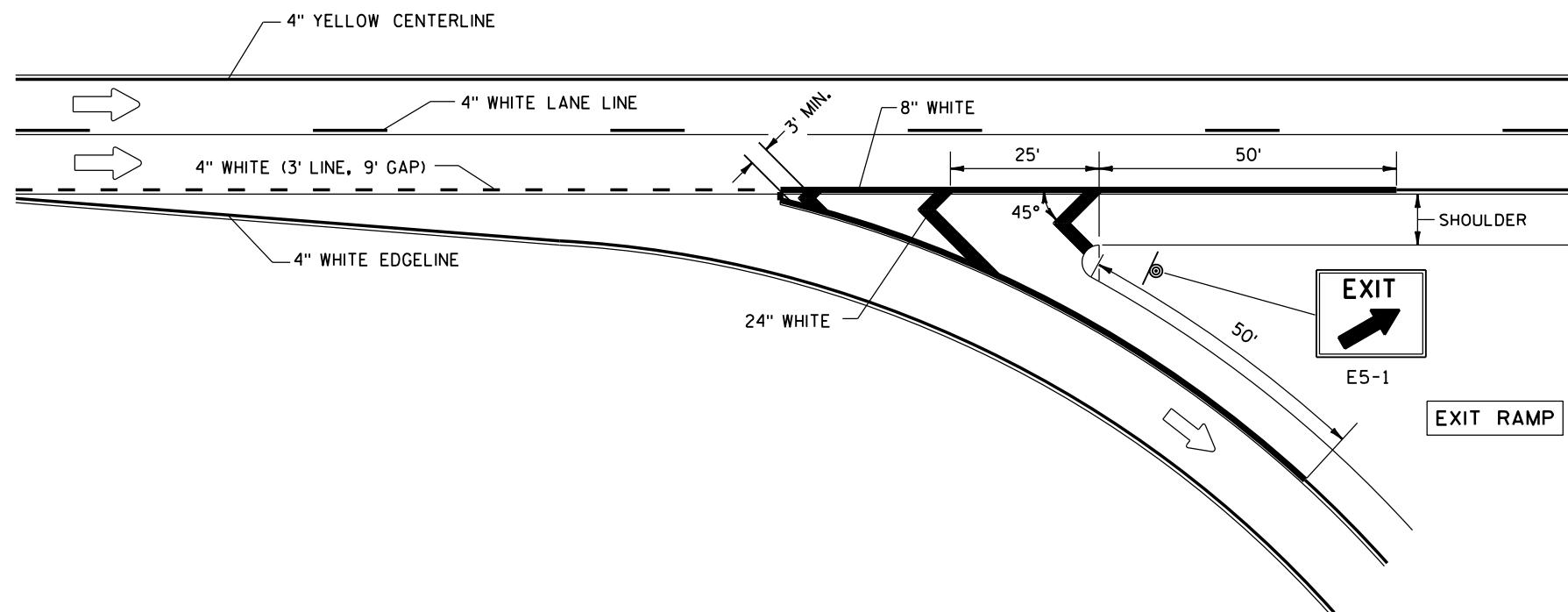
MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

FHWA



① 1/2 LENGTH OF FULL WIDTH ACCELERATION LANE.



APPROVED
Sept., 2017
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

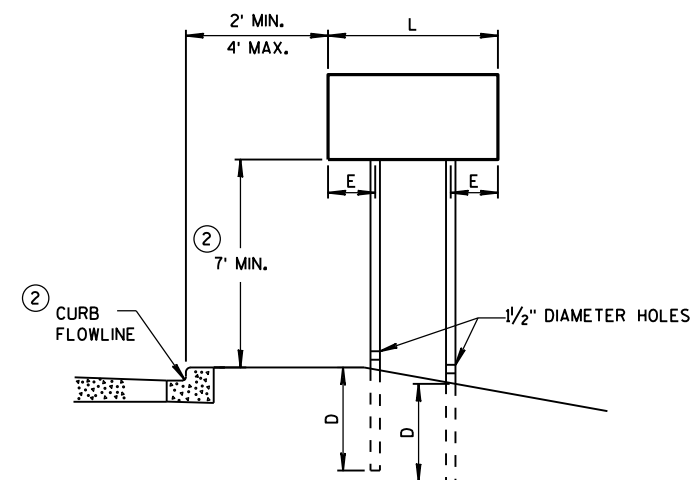
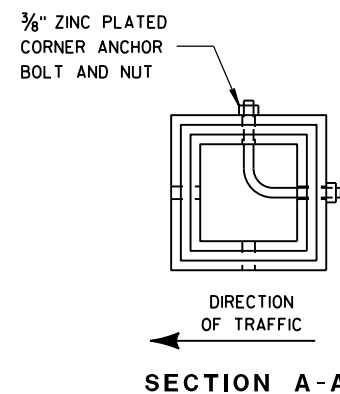


TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

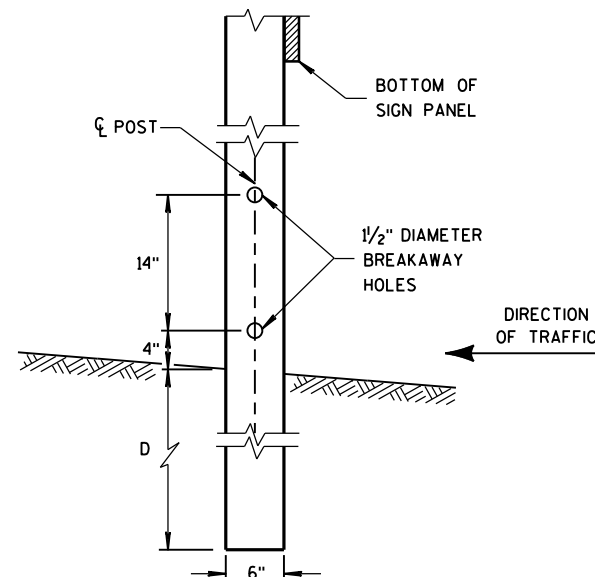


URBAN AREA

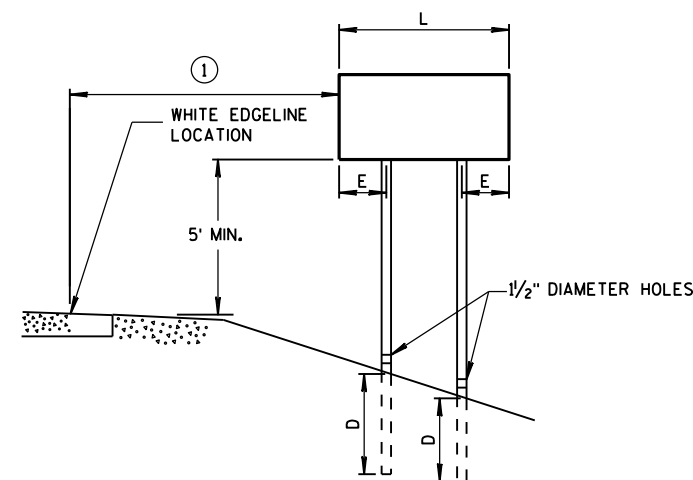
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST
EMBEDMENT DEPTH

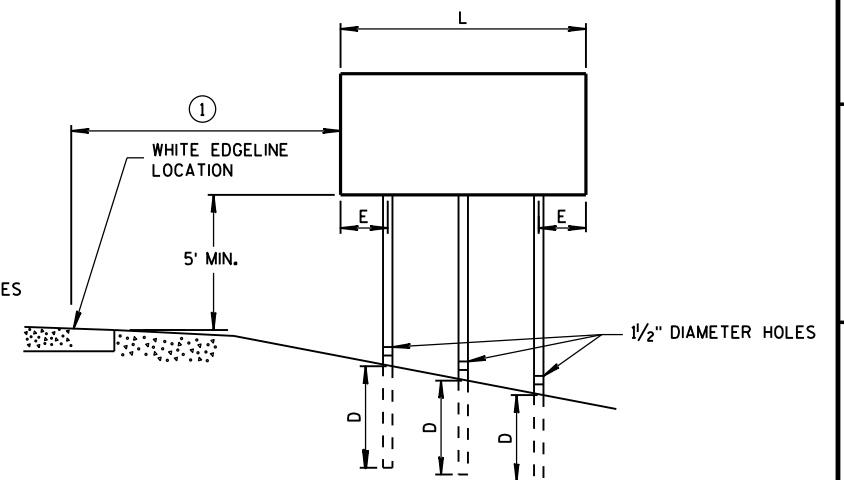
AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



4"x6" WOOD POST MODIFICATION



RURAL AREA



GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

- WASHERS (ALL POSTS) -
- 1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 - 1-1/4" O.D. x 3/8" I.D. x .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



Wisconsin Department of Transportation

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