Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Plan and Profile Standard Detail Drawings

RHI	JUL 23 2013
	ORDER OF SHEETS
PROJECT ID: 1170-20-70	Section No. 1 Section No. 2 Section No. 3 Section No. 3 Section No. 4 Section No. 5 Section No. 5 Section No. 6 Section No. 6 Section No. 7 Section No. 7 Section No. 8 Section No. 8 Section No. 9 Se
	S
COUNTY:	DESIGN DESIGNATION  A.A.D.T. 2014 = 4090 A.A.D.T. 2034 = 5290 D.H.V. = 645 D.D. = 61/3 T. = 18.3 DESIGN SPEED = 60 ESALS = 1,71
VILAS	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 (Box or Pipe) COMBUSTIBLE FLUIDS
	WOODED OR SHRUB AREA

2014 = 4090

2034 = 5290 = 645 = 61/39 = 18.3% = 60 = 1,715,500

WOODED OR SHRUB AREA

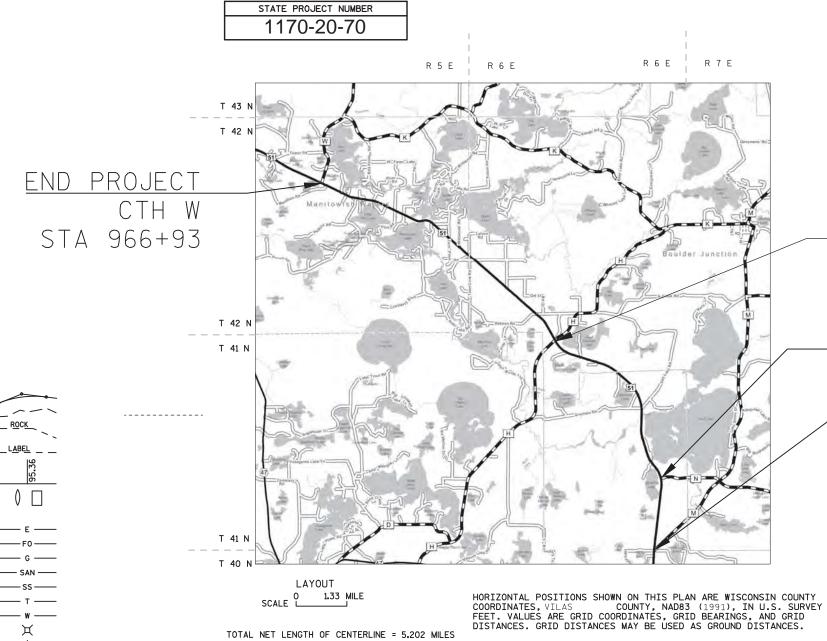
# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

# MINOCQUA - MANITOWISH

CTH M TO CTH W

**USH 51 VILAS** 



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1170-20-70

> CTH H STA 544+65

CTH N STA 266+00

> BEGIN PROJECT STA 163+00

#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY

Surveyor DAN ERVA Designer DAN ERVA Project Manager CHERYL SIMON Regional Examiner ANNA WISNER Regional Supervisor

APPROVED FOR THE DEPARMENT DATE: 6/18/13

**PROFILE** GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

Ø

STORM SEWER

TELEPHONE

POWER POLE

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

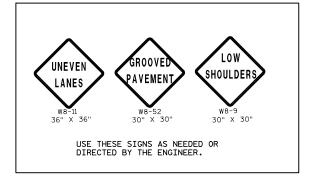
(To be noted as such)

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE, OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION ON THE MATERIAL AS DIRECTED BY THE ENGINEER

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

AN ASPHALTIC PAPER JOINT WILL BE PLACED ANYTIME THERE IS A 1.75" OR GREATER DROP FROM THE MILLING OPERATION

THERE ARE NO KNOWN UTILITY FACILITES WITHIN THE PROJECT AREA AS SHOWN FOR THE PROPOSED WORK



DEPARTMENT OF NATURAL RESOURCES NORTH CENTRAL DISTRICT 107 SUTLIFF AVE RHINELANDER, WI 54501 JON SIMONSEN 715-365-8916



Call 811 3 Work Days Before You Dig or Toll Free (800) 242-8511 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

PROJECT NO:1170-20-70

HWY: USH 51

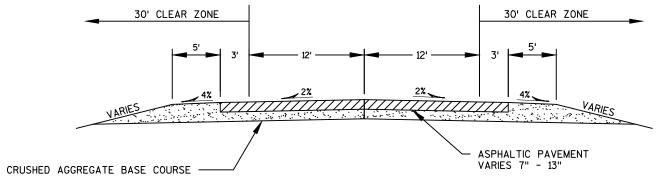
COUNTY: VILAS

PLAN: GENERAL NOTES

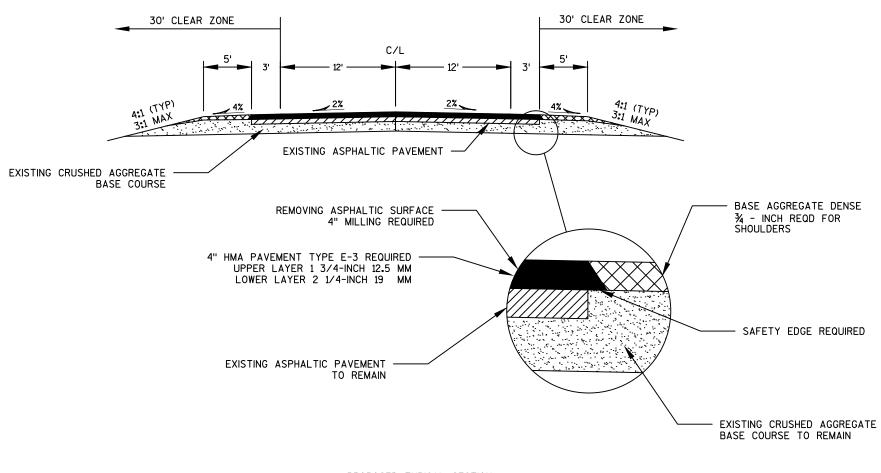
SHEET

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# EXISTING TYPICAL SECTION STATION 163+00 - STA 544+65

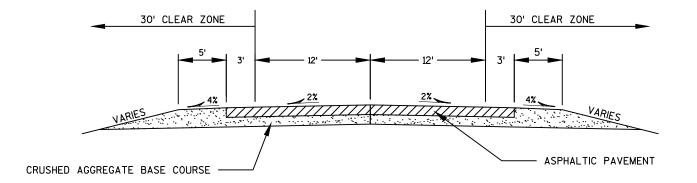


PROPOSED TYPICAL SECTION

STATION 268+00 - STA 542+65

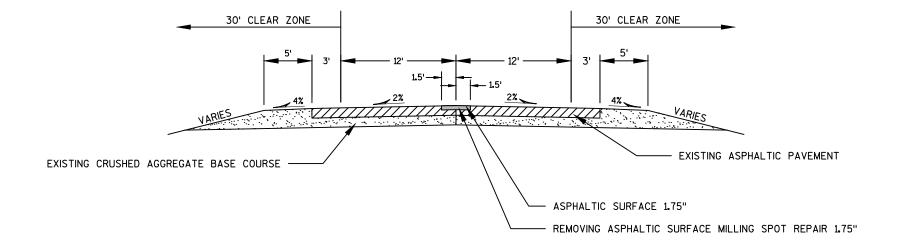
PROJECT NO:1170-20-70 HWY:USH 51 COUNTY:VILAS TYPICAL SECTIONS SHEET E

2



#### EXISTING TYPICAL SECTION

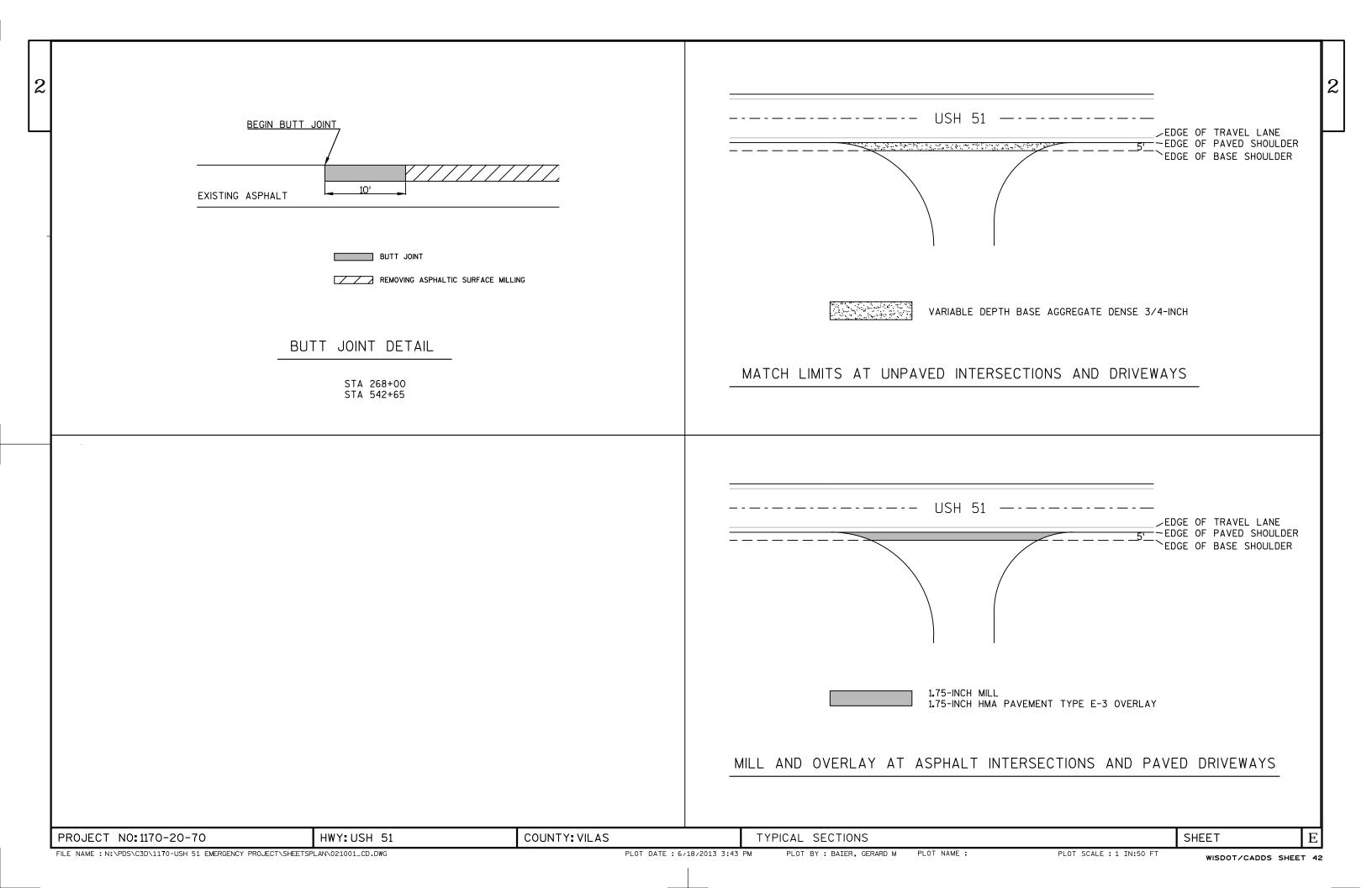
CTH H - CTH W



#### PROPOSED TYPICAL SECTION

SPOT LOCATIONS CTH H - CTH W

PROJECT NO:1170-20-70 HWY:USH 51 COUNTY:VILAS PROPOSED TYPICAL SECTIONS SHEET E



DATE 20	JUN13	E S T	IMATE	OF QUAN		
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1170-20-70 QUANTI TY	
0010	204. 0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	66.000	66.000	
0020	204. 0120	REMOVING ASPHALTIC SURFACE MILLING	SY	91, 550. 000	91, 550. 000	
0030	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000	
		1170-20-70				
0040	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	2, 119. 000	2, 119. 000	
0050	305. 0500	SHAPI NG SHOULDERS	STA	550. 000	550. 000	
0060	440. 4410. S	INCENTIVE IRI RIDE	DOL	10, 400. 000	10, 400. 000	
0070	455. 0105	ASPHALTIC MATERIAL PG58-28	TON	1, 128. 000	1, 128. 000	
0800	455.0605	TACK COAT	GAL	4, 703. 000	4, 703. 000	
0090	460. 1103	HMA PAVEMENT TYPE E-3	TON	20, 507. 000	20, 507. 000	
0100	460. 2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	13, 130. 000	13, 130. 000	
0110		REHEATING HMA LONGITUDINAL JOINTS	LF	54, 930. 000	54, 930. 000	
0120	465. 0105	ASPHALTIC SURFACE	TON	490. 000	490. 000	
0130	465. 0110	ASPHALTIC SURFACE PATCHING	TON	50. 000	50. 000	
0140	465. 0475. S	ASPHALT CENTER LINE RUMBLE STRIP 2-LANE	LF	27, 465. 000	27, 465. 000	
0450	(40.0400	RURAL	E 4 011	4 000	4 000	
0150	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS	EACH	1. 000	1. 000	
		(PROJECT) 01. 1170-20-70				
0160	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000	
0170	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 1170-20-70	EACH	1. 000	1. 000	
0180	643. 0900	TRAFFIC CONTROL SIGNS	DAY	2, 365. 000	2, 365. 000	
0190	646. 0103	PAVEMENT MARKING PAINT 4-INCH	LF	30, 000. 000	30, 000. 000	
0200	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	82, 676. 000	82, 676. 000	
0210	646. 0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	27, 746. 000	27, 746. 000	
0220	648. 0100	LOCATING NO-PASSING ZONES	MI	5. 200	5. 200	
0230	649. 0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	55, 492. 000	55, 492. 000	
0240	690. 0150	SAWING ASPHALT	LF	60.000	60. 000	
0250	SPV. 0180	SPECIAL O1. REMOVING ASPHALTIC SURFACE	SY	5, 000. 000	5, 000. 000	
		MILLING SPOT REPAIR				

#### REMOVING ASPHALTIC SURFACE BUTT JOINT

#### REMOVING ASPHALTIC SURFACE MILLING

BASE AGGREGATE DENSE

305.0110
3/4-INCH
TON

		204.0115
STATION	LOCATION	SY
268+00	USH 51	33
542+65	USH 51	33
·	TOTAL	66

STATION - STATION	LOCATION	204.0120 SY
STA 268+00 - STA 542+65	USH 51	91550
	TOTAL	91550

		3/4-INCH
STATION - STATION	LOCATION	TON
STA 268+00 - STA 542+65	USH 51	2119
	TOTALS	2119

#### **SHAPING SHOULDERS**

STATION - STATION	LOCATION	305.0500 STATION
268+00 - 542+65	USH 51	550
•	TOTAL	550

#### HMA PAVEMENT TYPE & ASPHALTIC MATERIAL

			455.0105	460.4110.S
		460.1103	ASPHALTIC	REHEATING
		HMA	MATERIAL	HMA PAVEMENT
		<b>PAVEMENT</b>	PG58-28	LONGITUDINAL
		TYPE E-3		JOINT
STATION - STATION	LOCATION	TON	TON	LF
STA 268+00 - STA 542+65	USH 51	20507	1128	54930
	TOTALS	20507	1128	54930

#### TACK COAT

	4	455.0605	5
STATION - STATION	LOCATION	GAL	REMARKS
STA 268+00 - STA 542+65	USH 51	4578	
	CTH H - CTH W	125	SPOT REPAIRS
	TOTAL	4703	

#### **CENTER LINE RUMBLE STRIP**

#### ASPHALTIC SURFACE

		465.0105	
STATION - STATION	LOCATION	TON	REMARKS
	CTH H - CTH W	490	SPOT REPAIRS
	ΤΟΤΔΙ	490	

		465.0110	)
STATION - STATION	LOCATION	TON	REMARKS
163+00 - 266+00	USH 51	10	UNDISTRIBUTED
268+00 - 542+65	USH 51	40	SPOT LOCATIONS
	TOTAL	50	

**ASPHALTIC SURFACE PATCHING** 

		465.0475.S
		ASPHALT
		2-LANE
		RURAL
STATION - STATION	LOCATION	LF
STA 268+00 - STA 542+65	CL	27465
	TOTAL	27465

PROJECT NO: 1170-20-70 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET:

### 3

#### **TRAFFIC CONTROL**

	643.0900
	SIGNS
	DAYS
ADVANCED WARNING SIGNS	450
SIDE ROADS	1755
UNDISTRIBUTED: UNEVEN LANES / GROOVED PAVEMENT / LOW SHOULDERS	160
TOTALS	2365

#### **LOCATING NO-PASSING ZONES**

	648.0100
STATION - STATION	MILES
268+00 - 542+65	5.2
TOTAL	5.2

#### **PAVEMENT MARKING**

		646.0103	646.0106	646.0406	
				SAME DAY	
				EPOXY	
		PAINT	<b>EPOXY</b>	4-INCH	
		4-INCH	4-INCH	EPOXY	
STATION - STATION	LOCATION	LF	LF	LF	REMARKS
STA 268+00 - STA 542+65	CL		27746	27746	YELLOW
STA 268+00 - STA 542+65	<b>EDGELINE</b>		54930	0	WHITE
	CTH H - CTH W CL	30000			YELLOW FOR SPOT REPAIRS
	TOTAL	30000	82676	27746	

#### **SAWING ASPHALT**

		690.0105
STATION	LOCATION	LF
268+00	USH 51	30
542+65	USH 51	30
	TOTAL	60

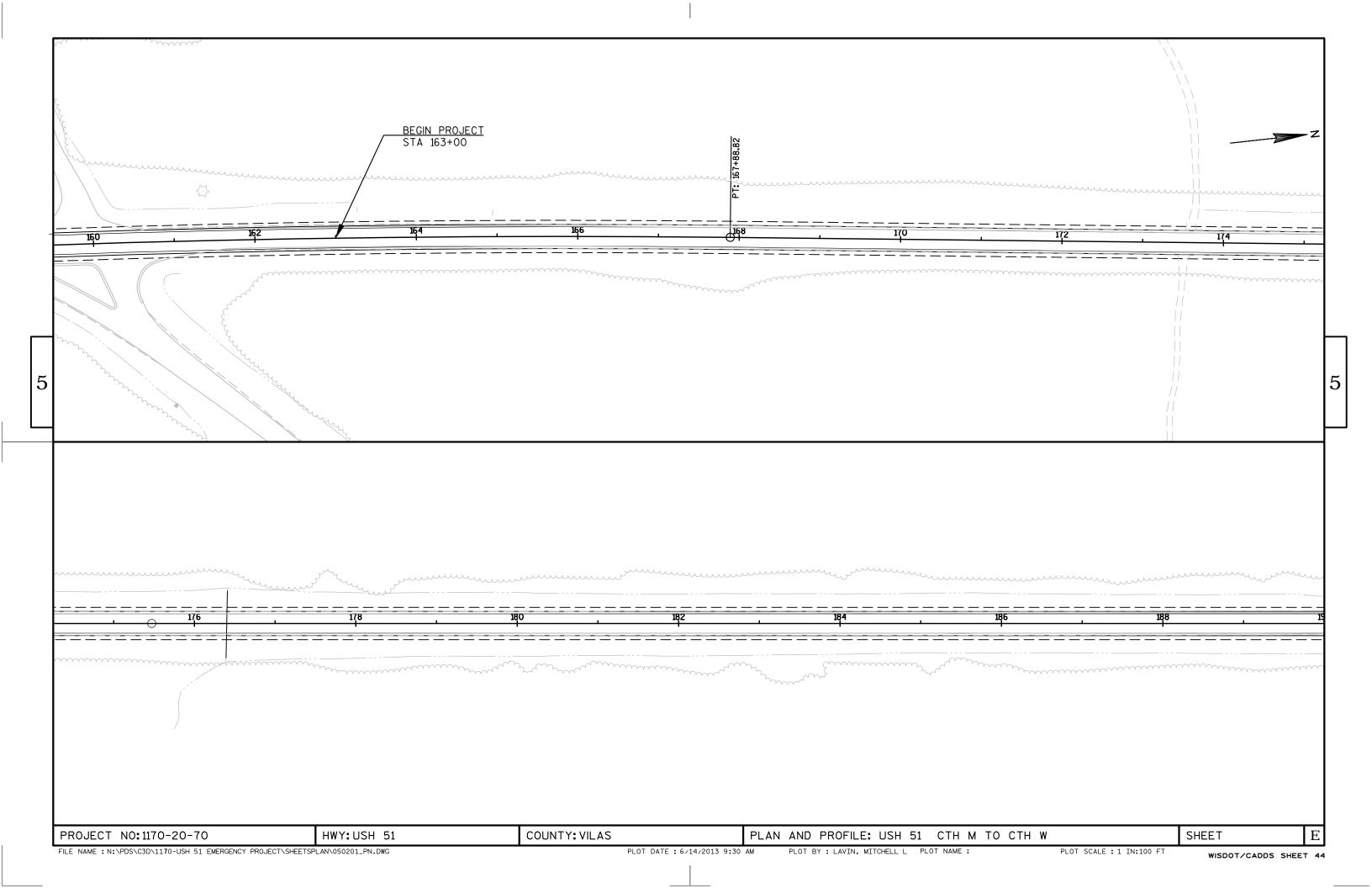
#### TEMPORARY PAVEMENT MARKING

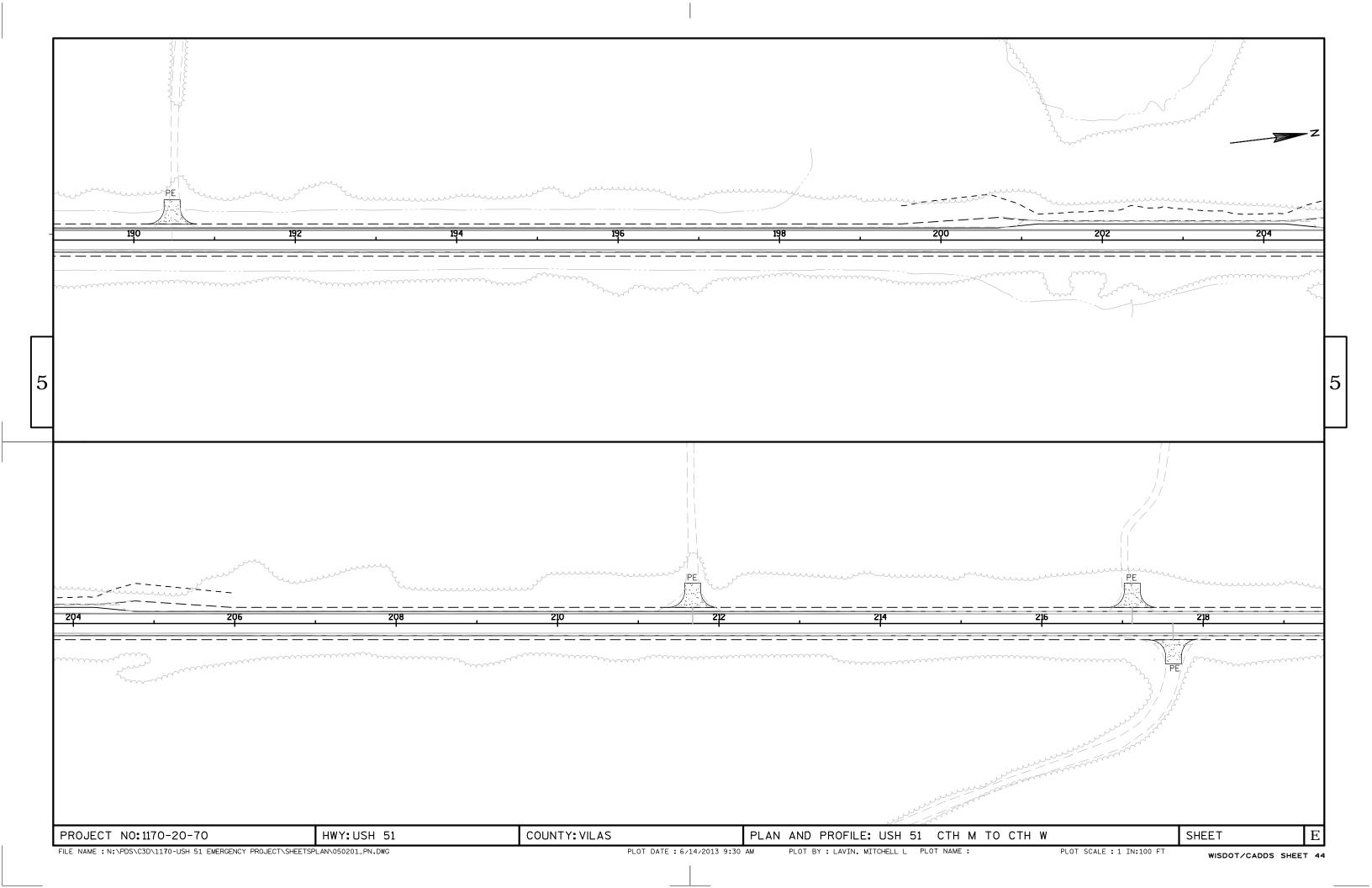
| 649.0100 | TEMPORARY | PAVEMENT | MARKING | 4-INCH | STATION - STATION | LOCATION | LF | REMARKS | 268+00 - 542+65 | CL | 55492 | YELLOW | 55492

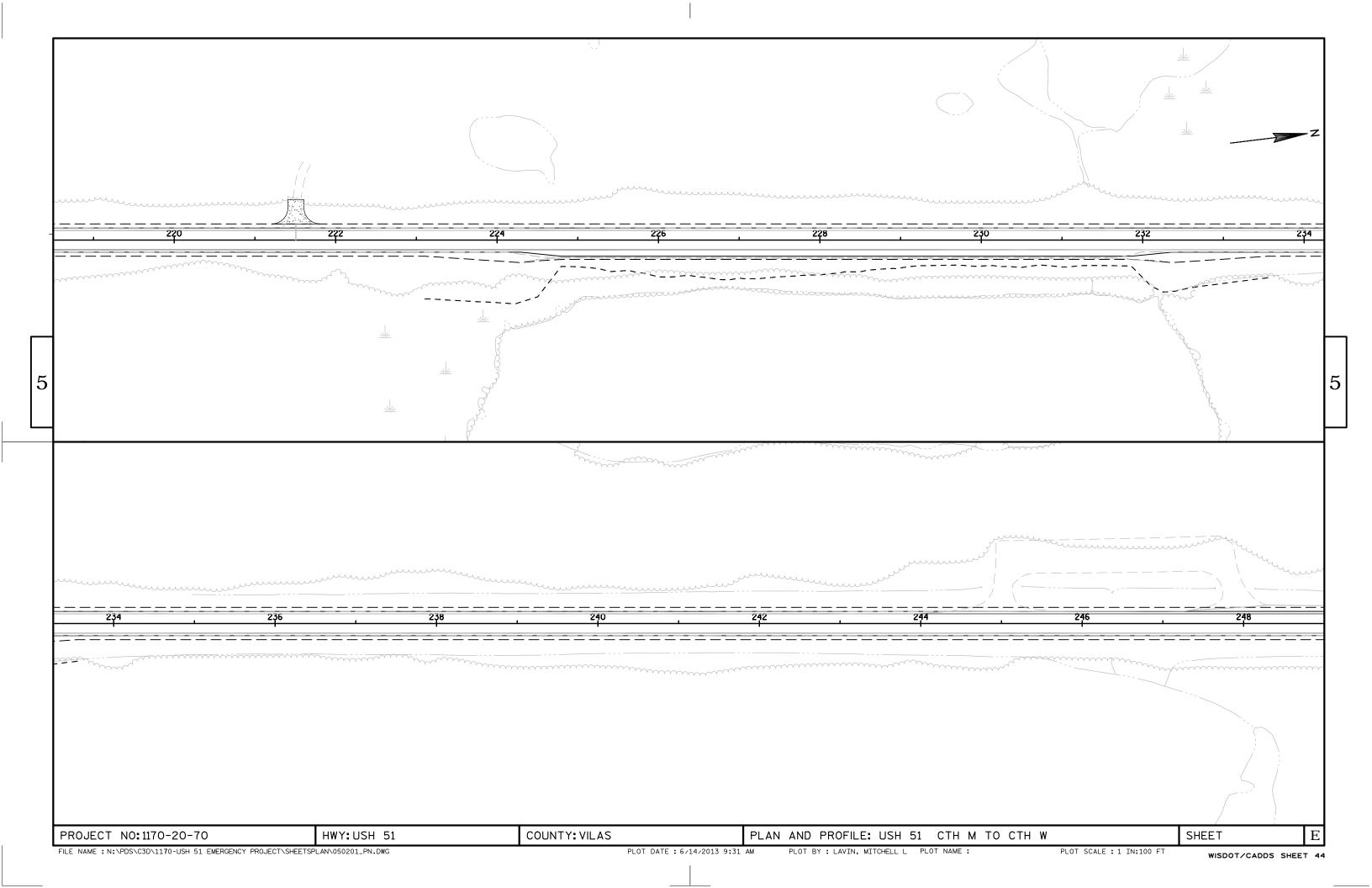
#### REMOVING ASPHALTIC SURFACE MILLING SPOT REPAIR

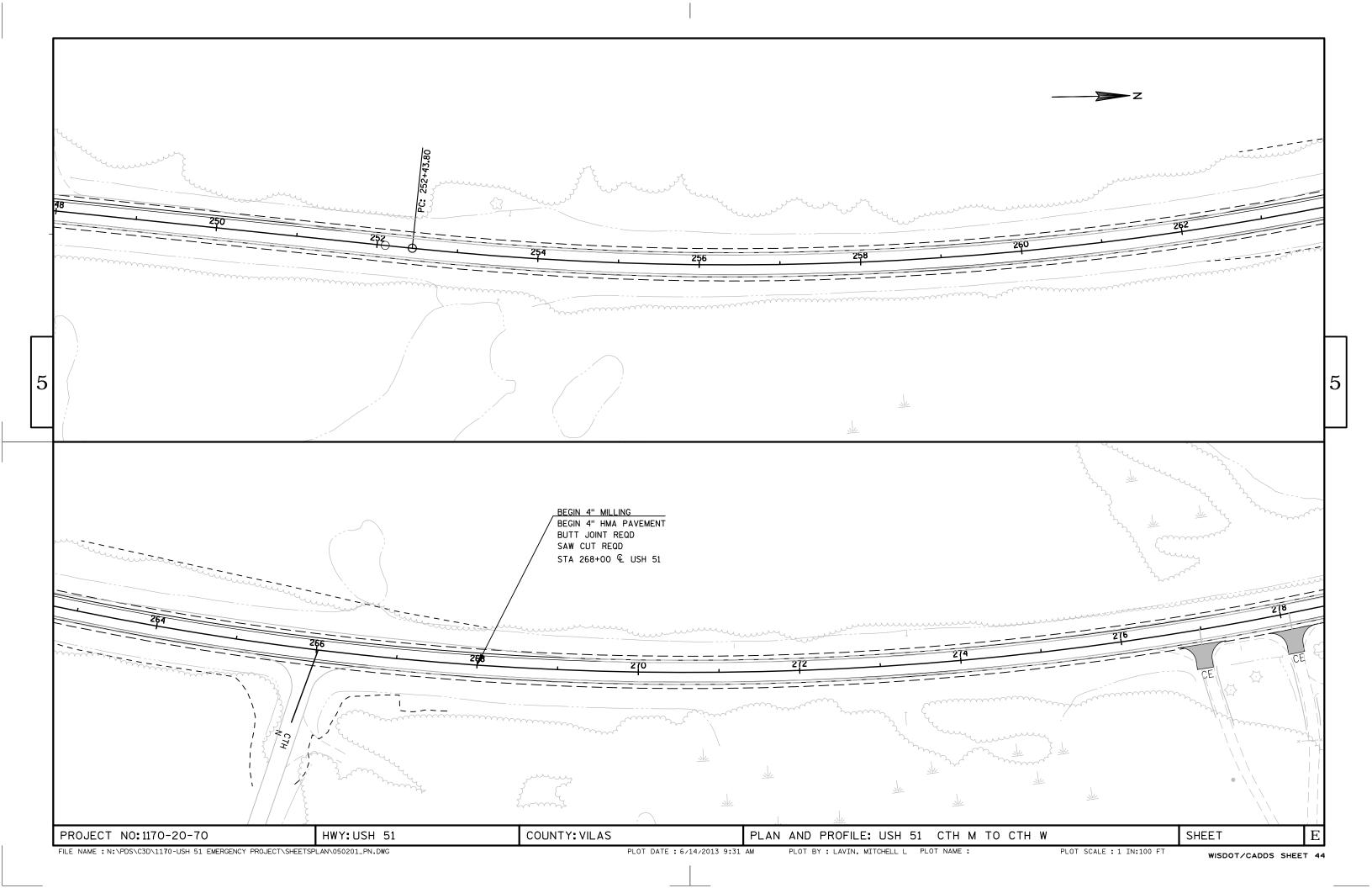
		SPV.0180.01
STATION - STATION	LOCATION	SY
	CTH H - CTH W	5000
	TOTAL	5000

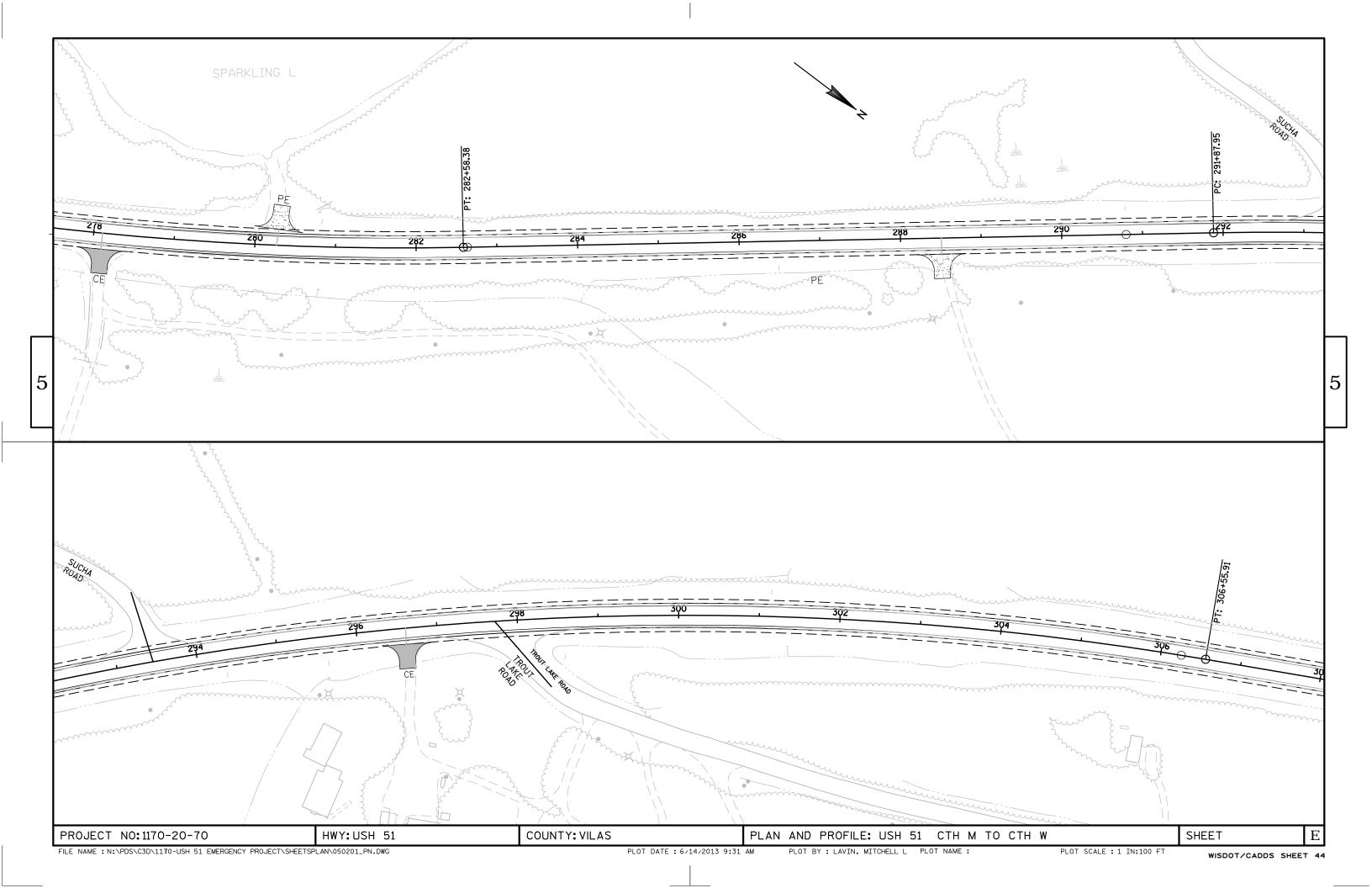
PROJECT NO: 1170-20-70 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET: **E** 

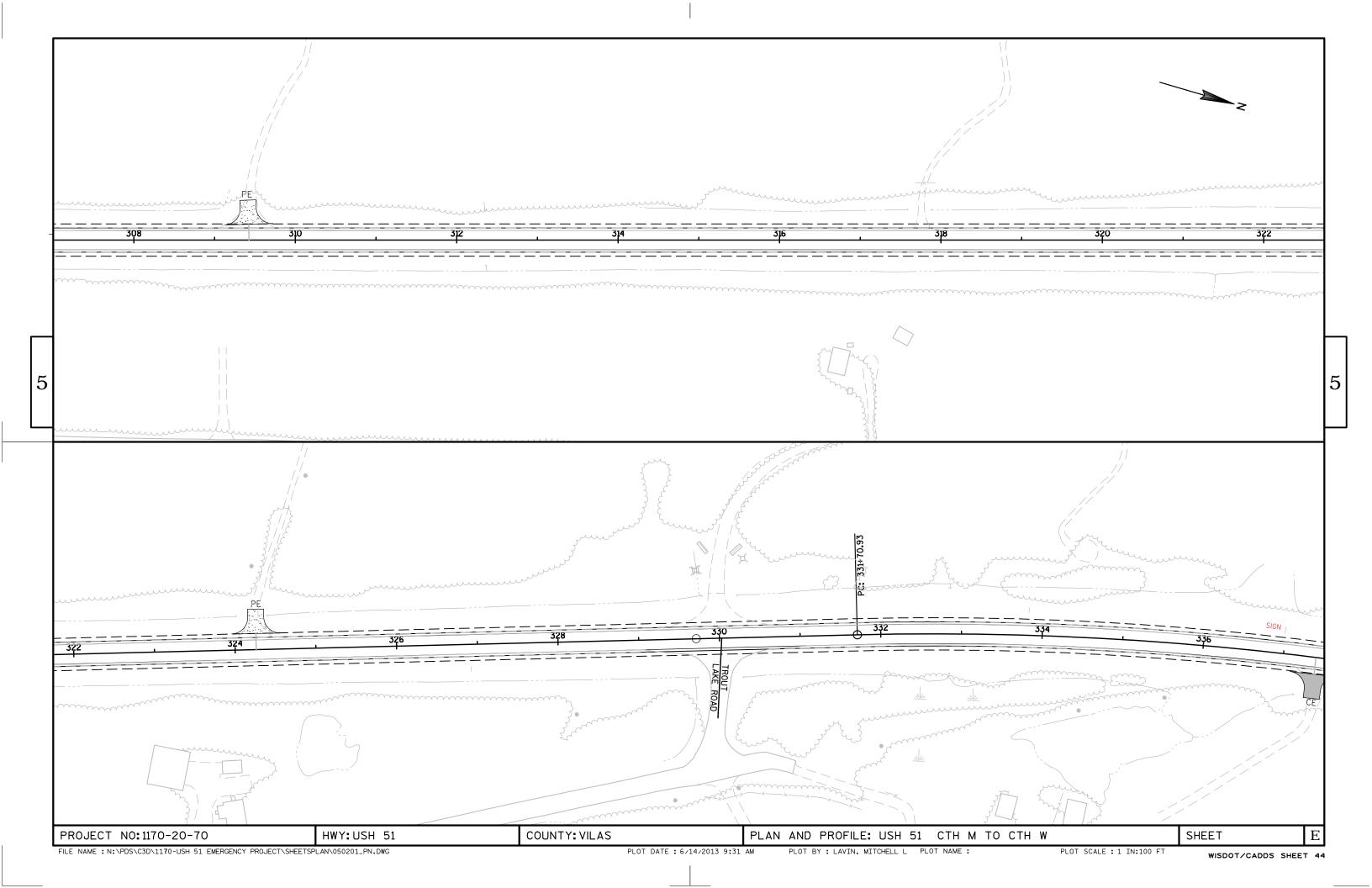


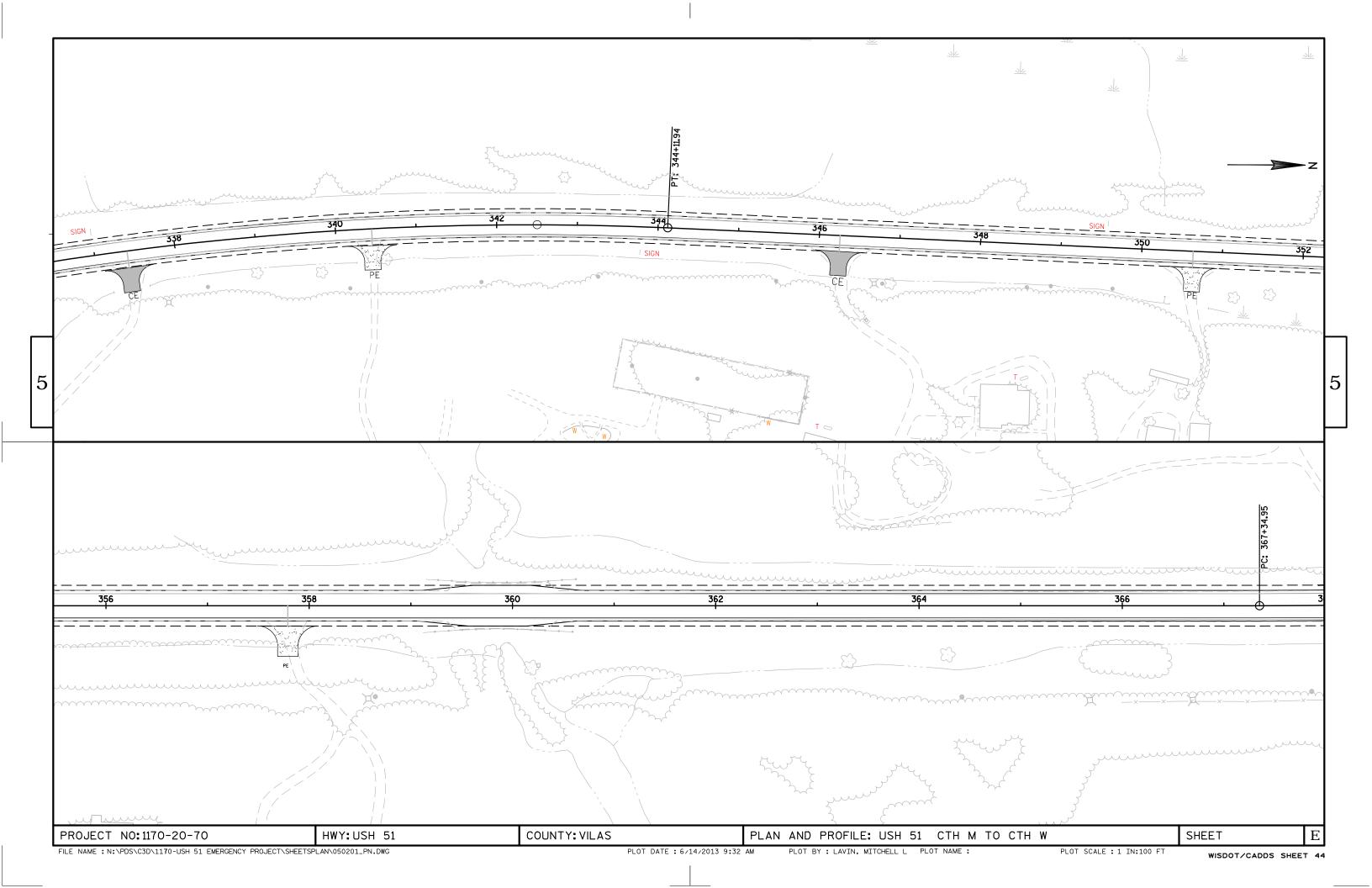


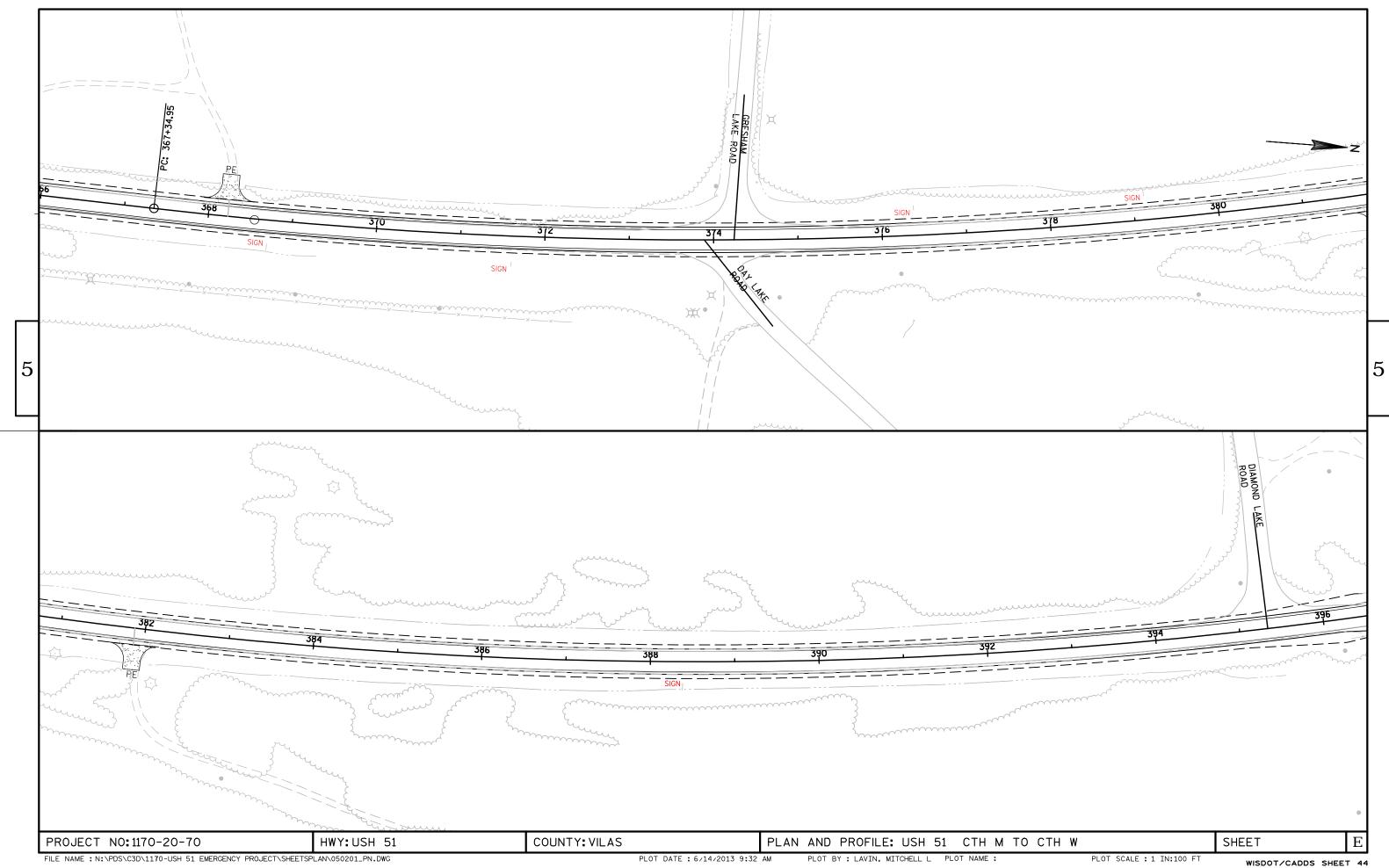


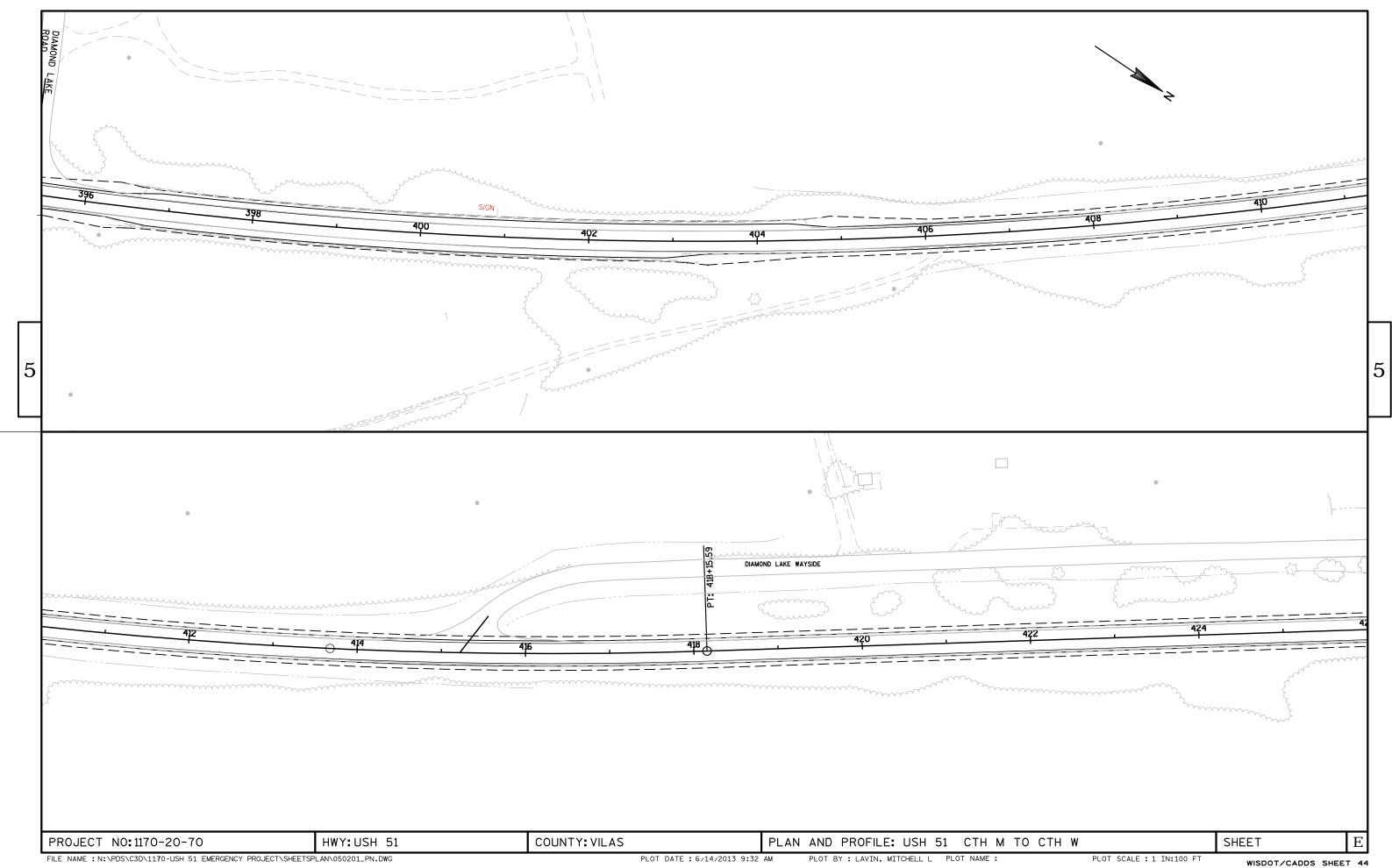


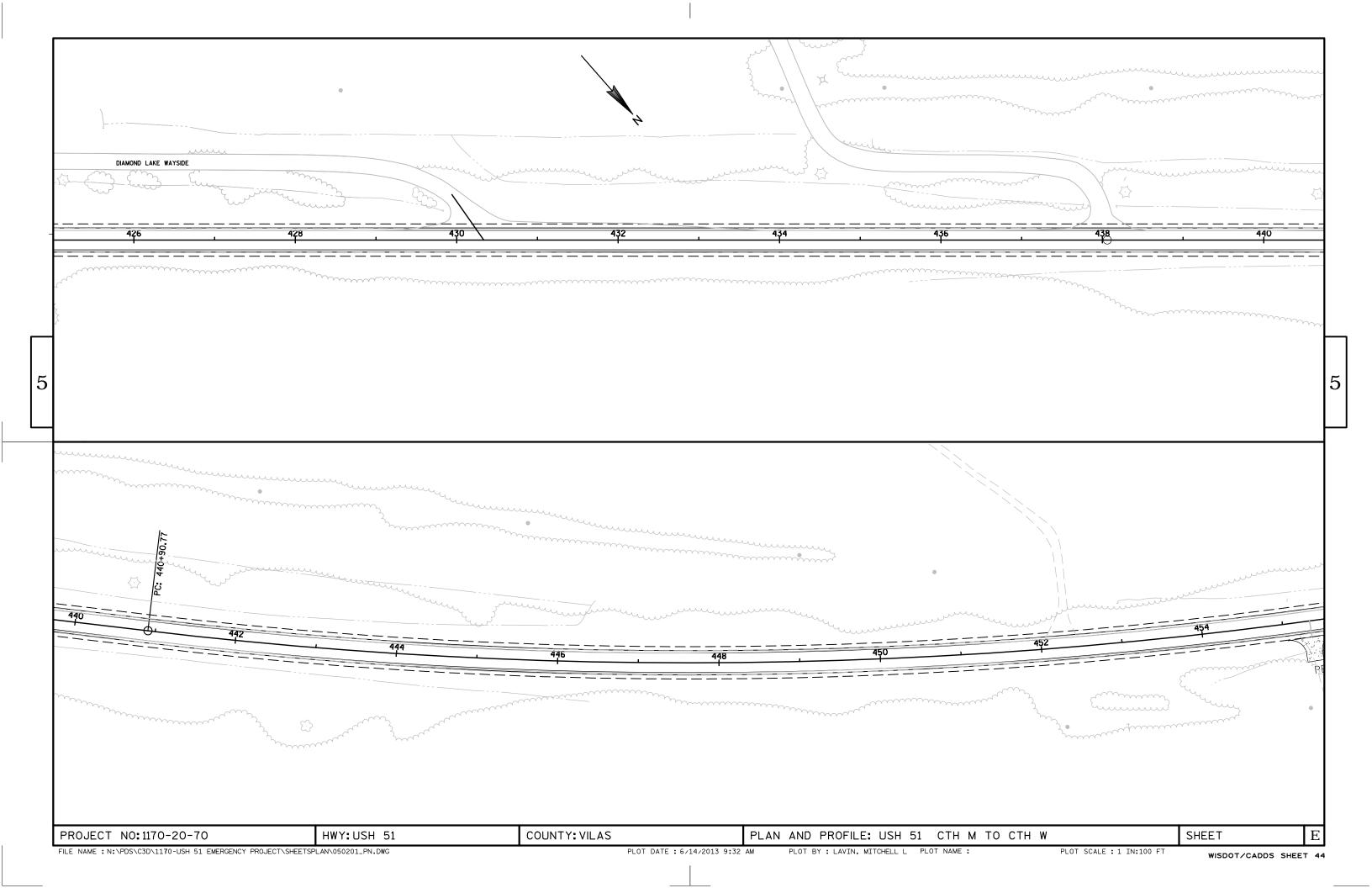


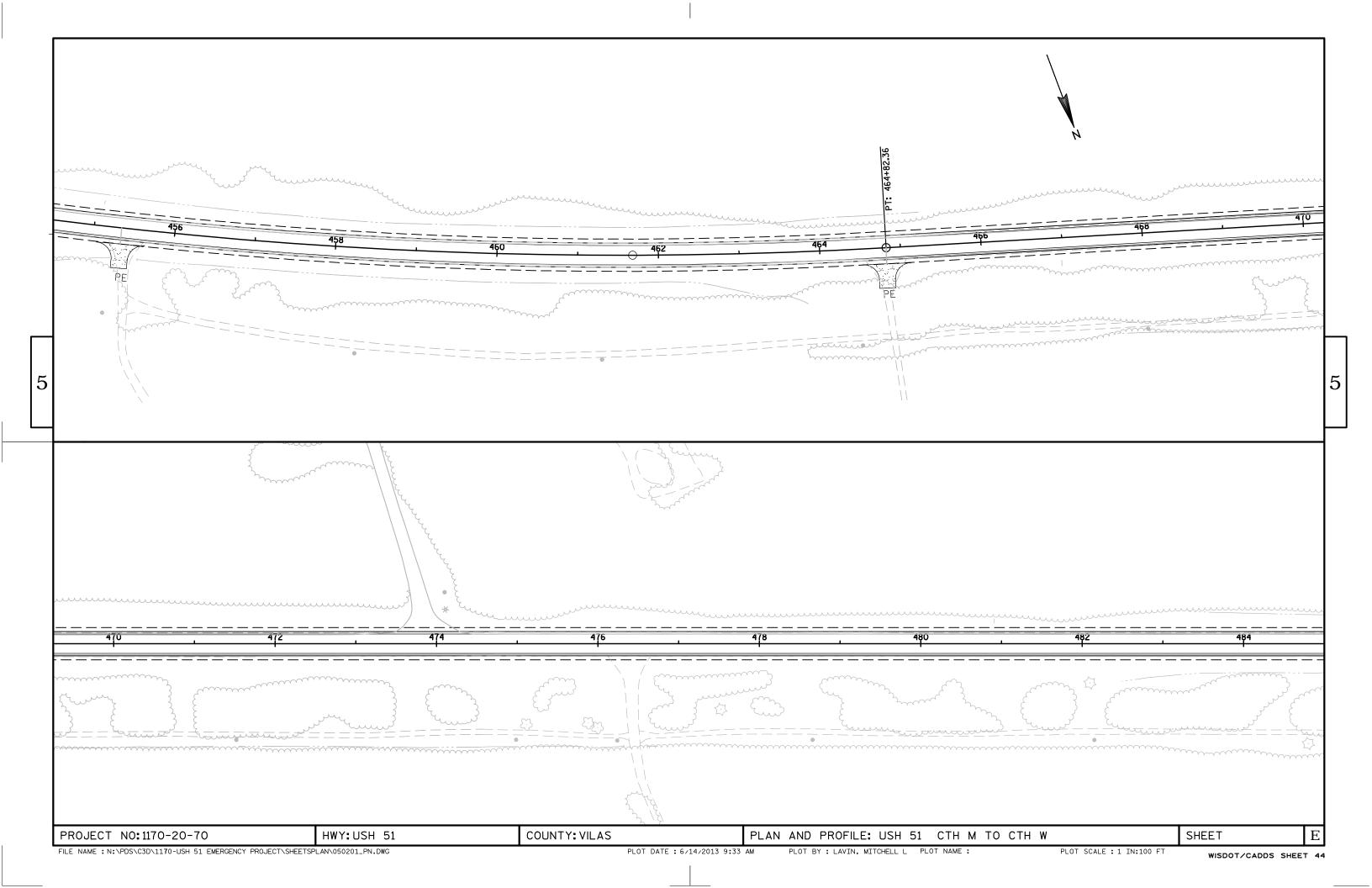


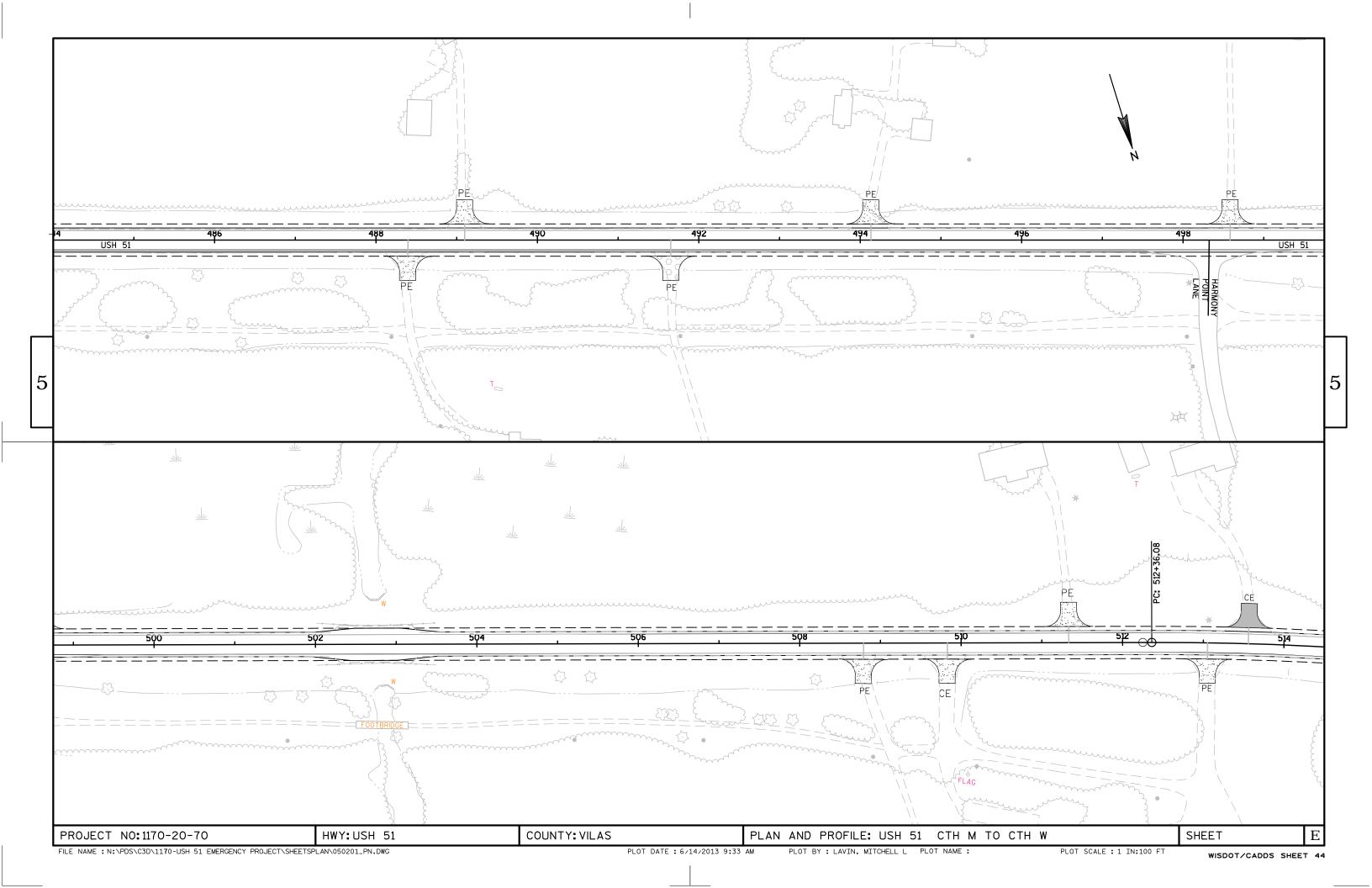


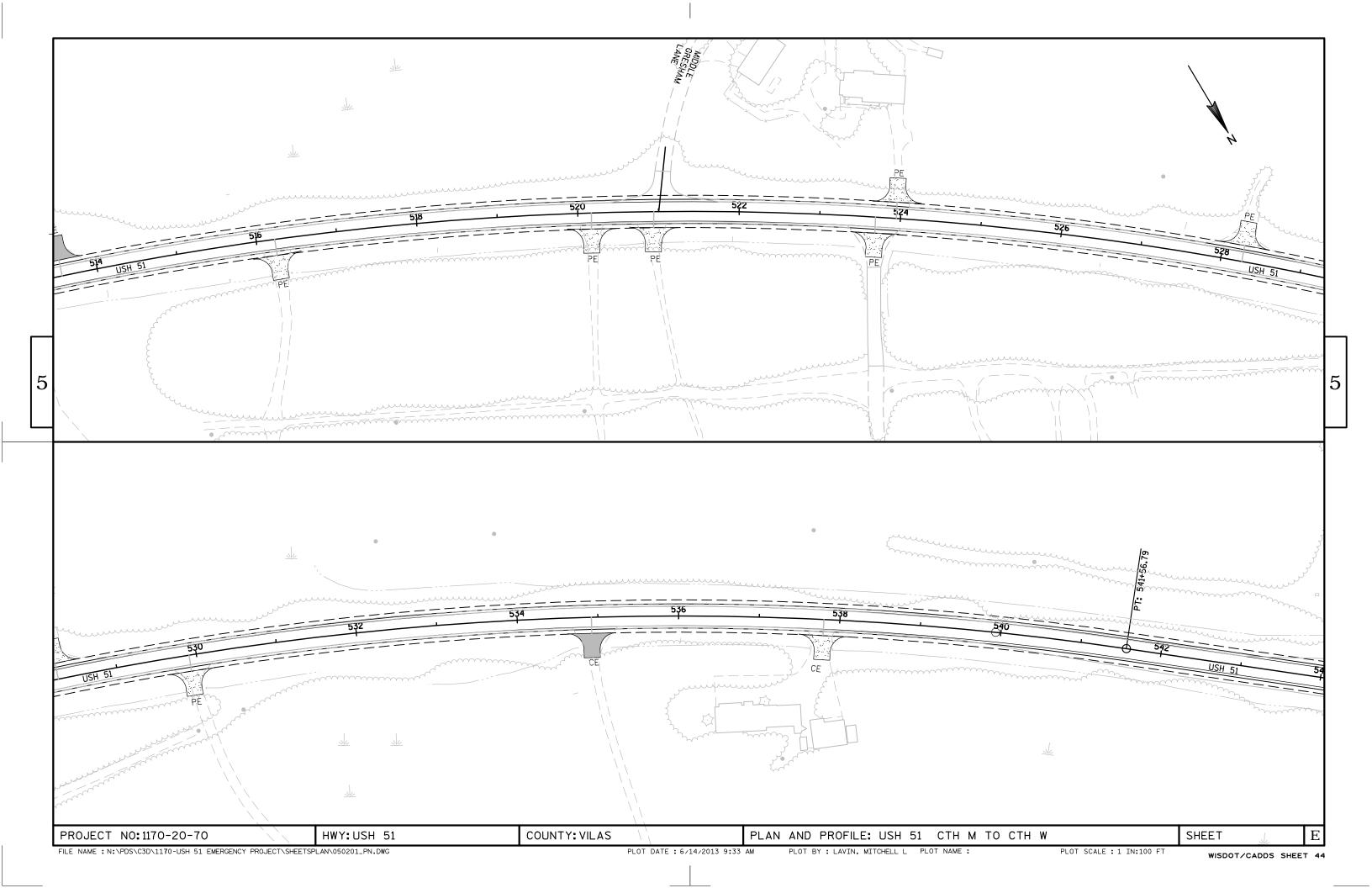


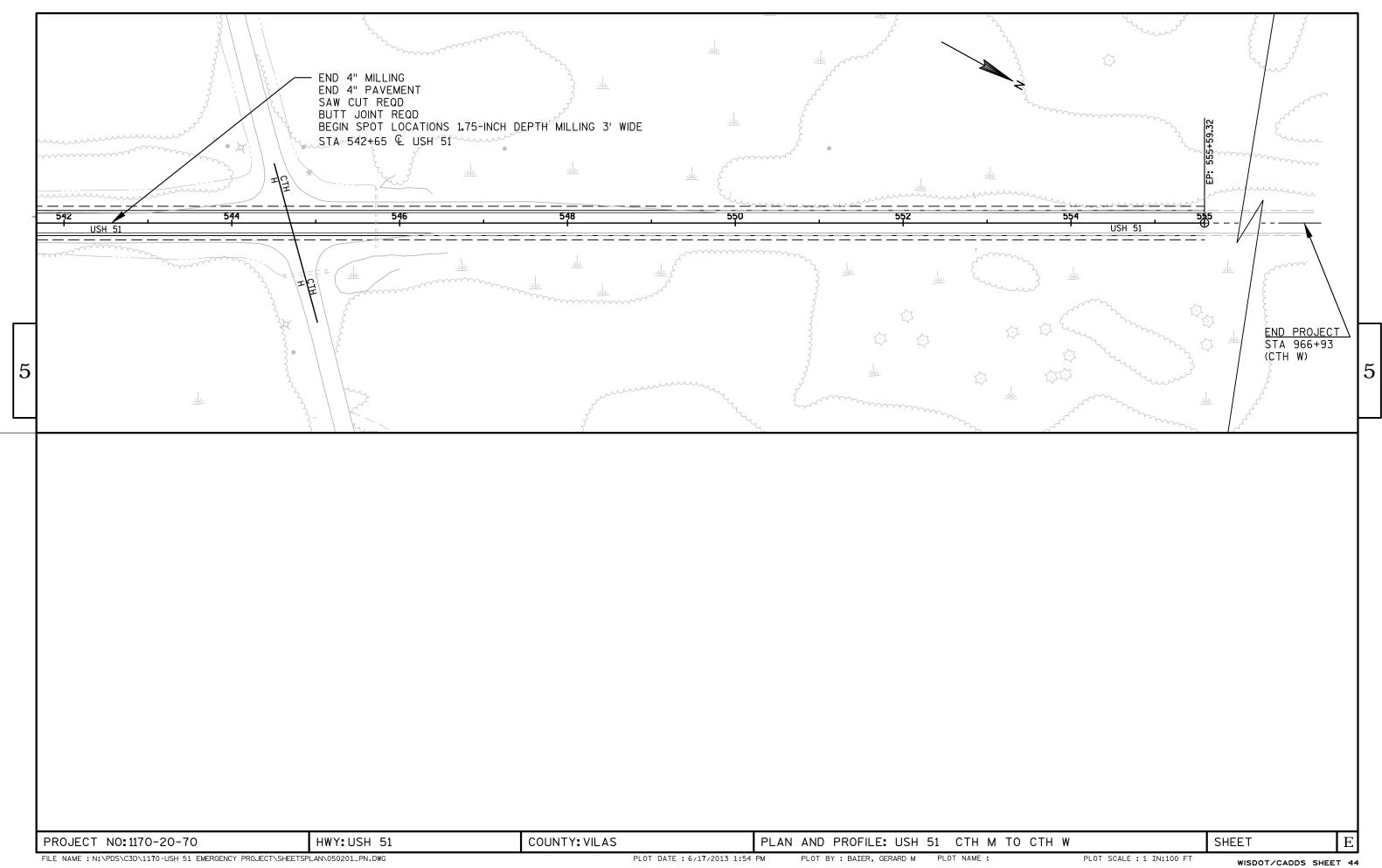










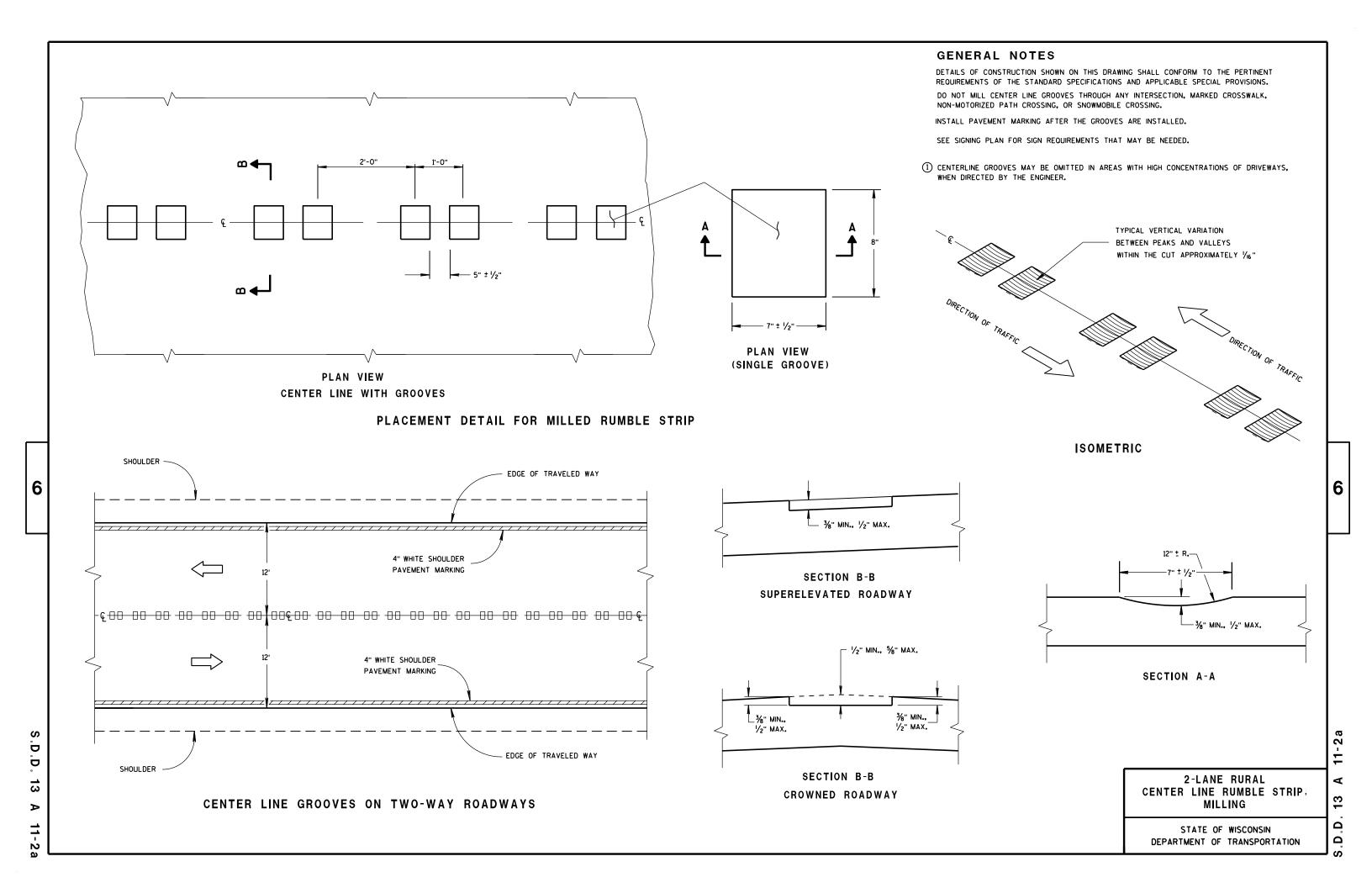


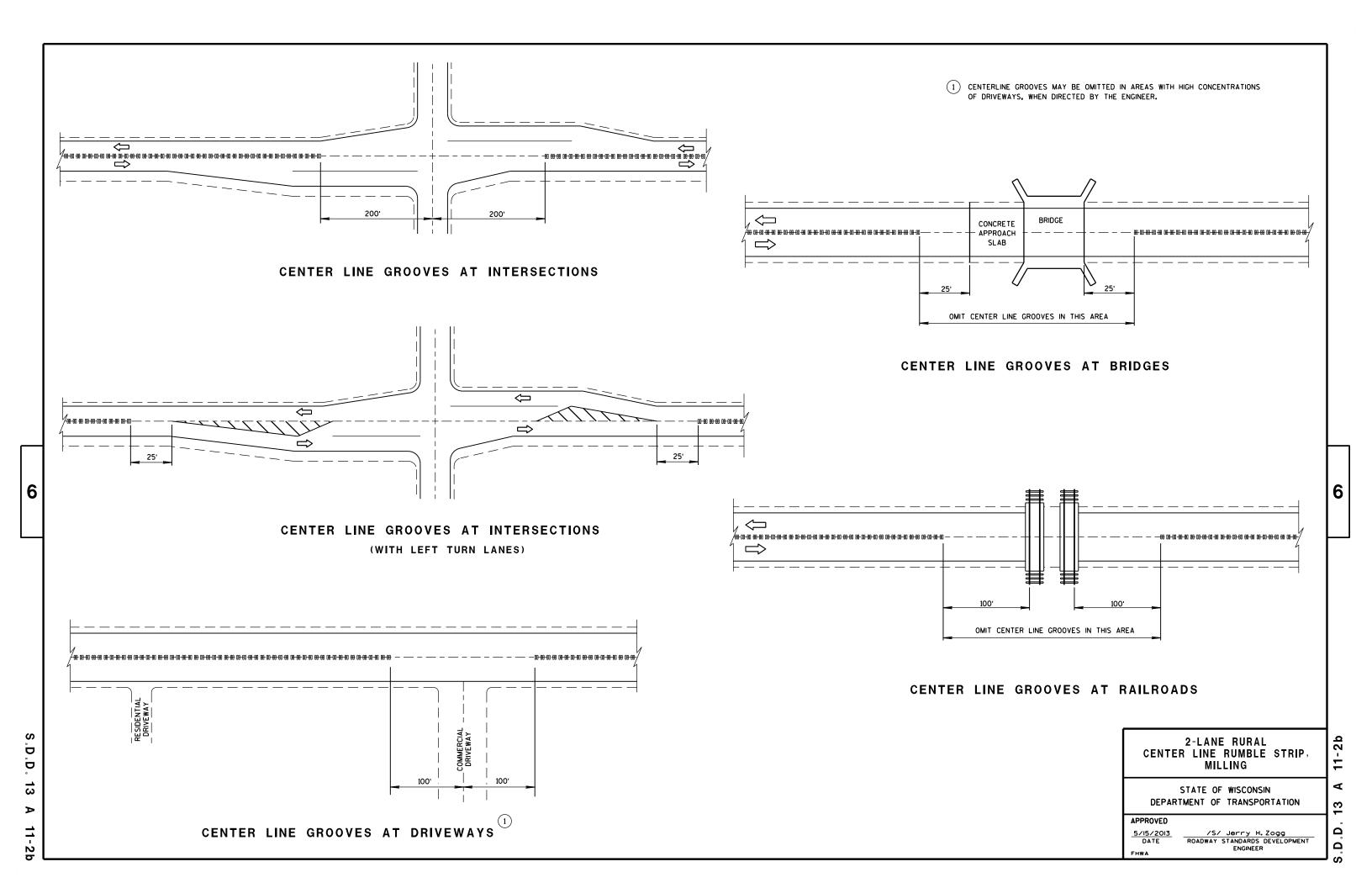
## Standard Detail Drawing List

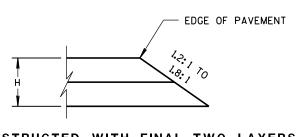
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-01A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

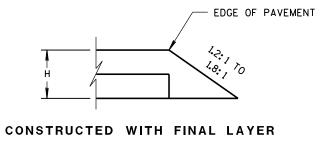
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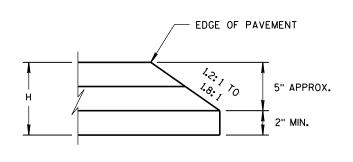


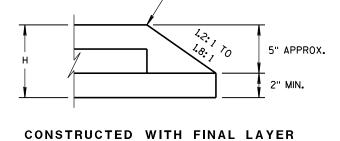


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





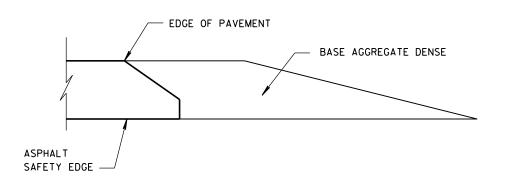
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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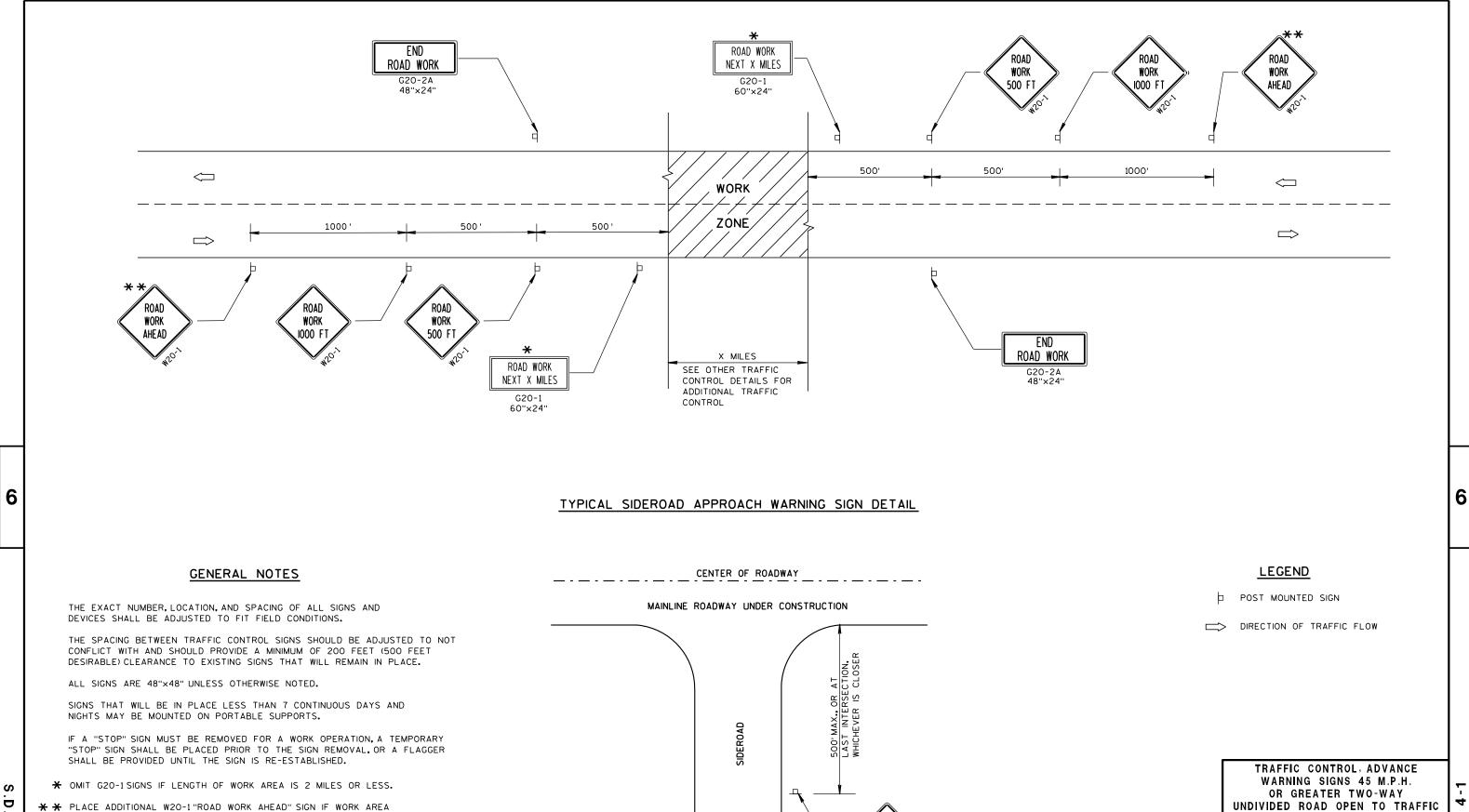
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6



STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

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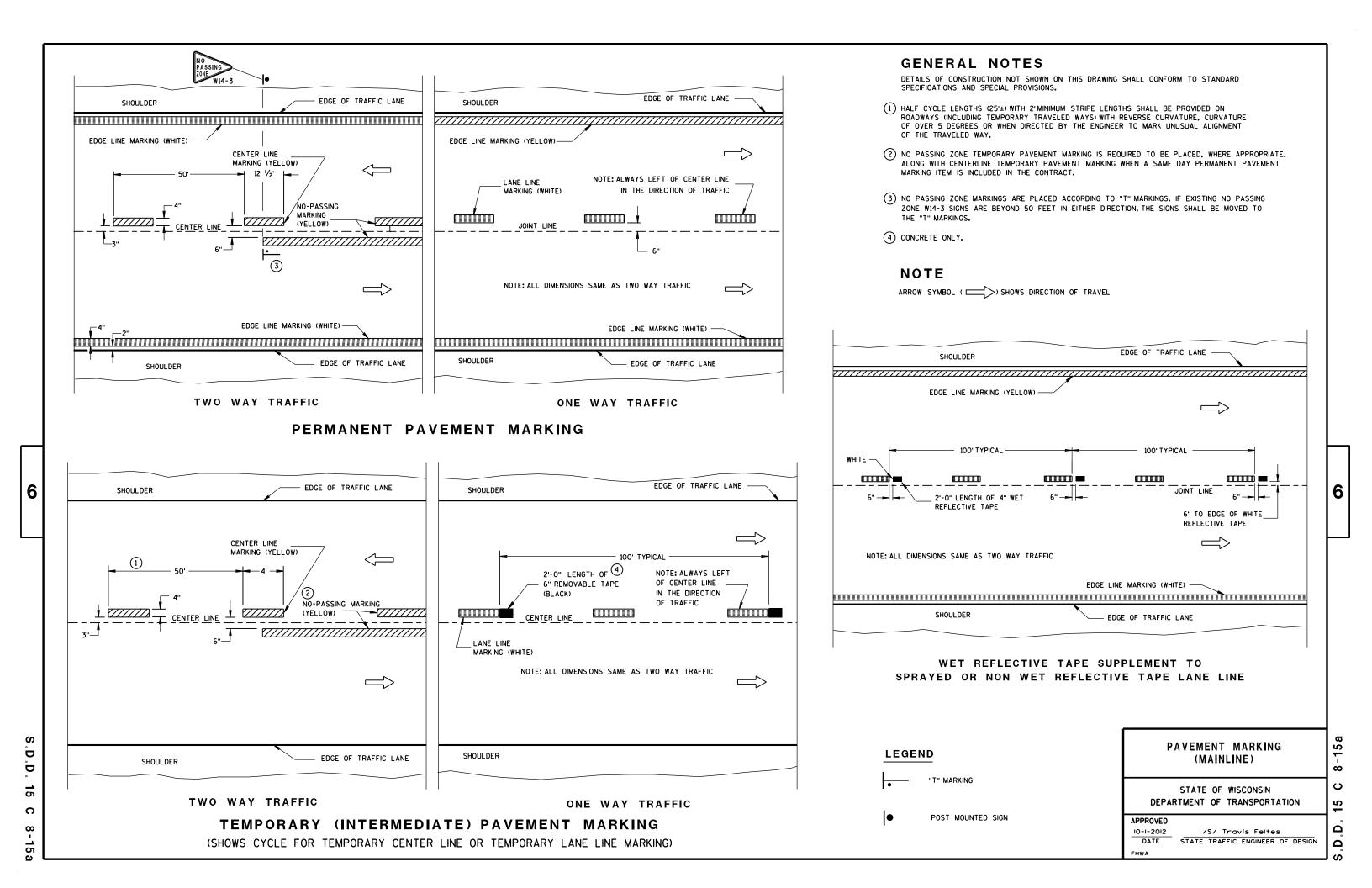
APPROVED

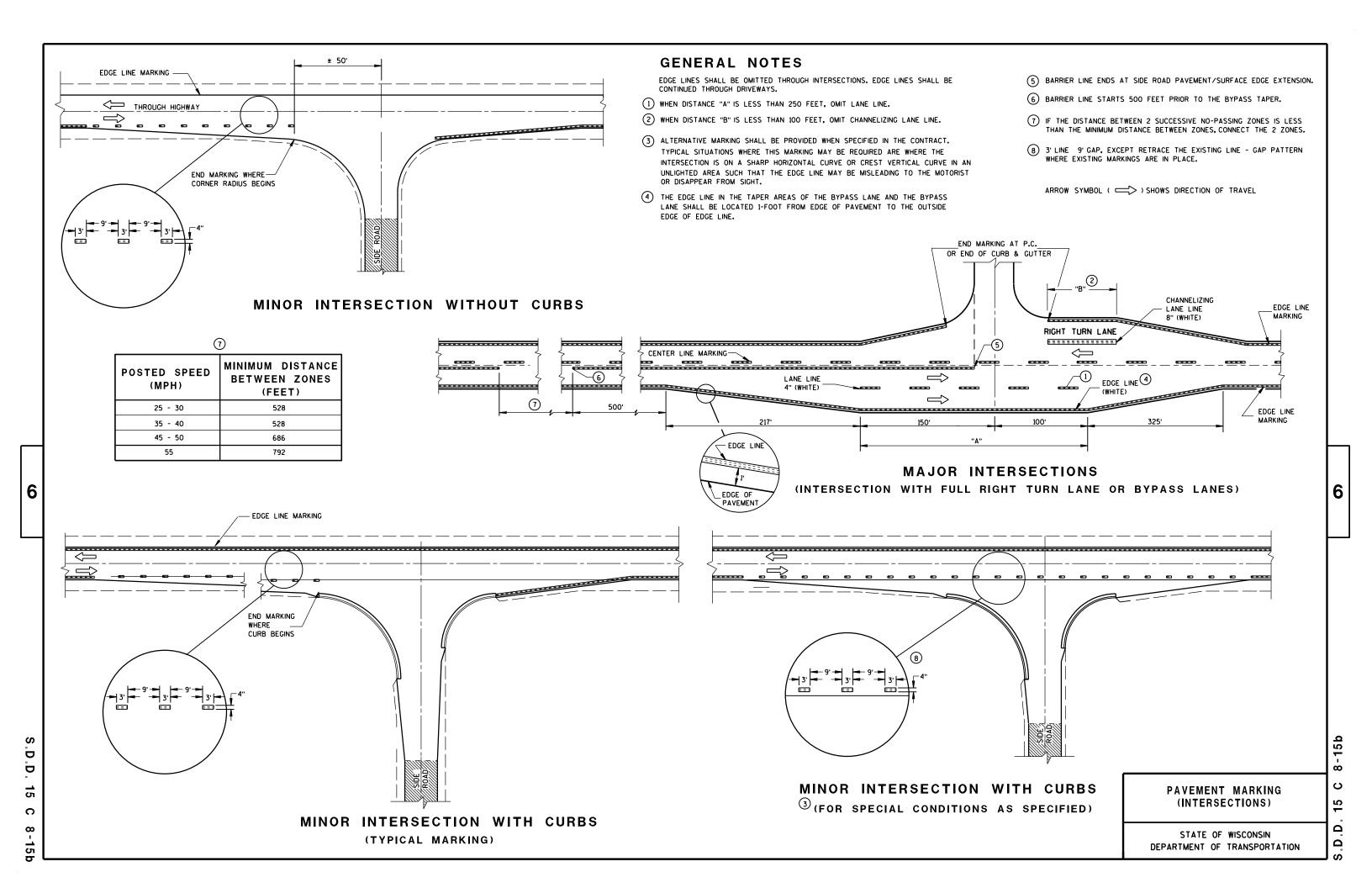
5/23/00

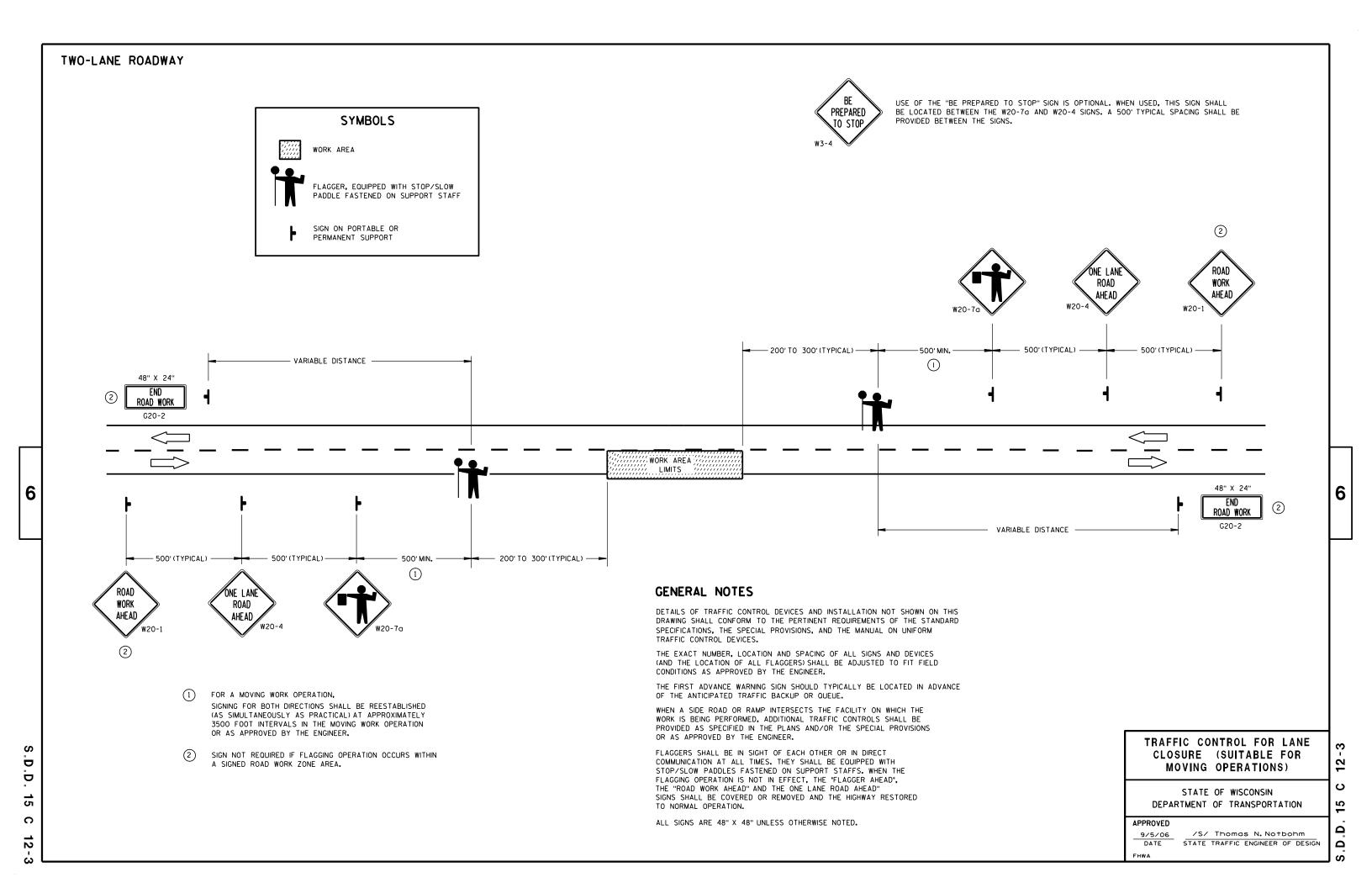
S.D.D. 15 C 4-1

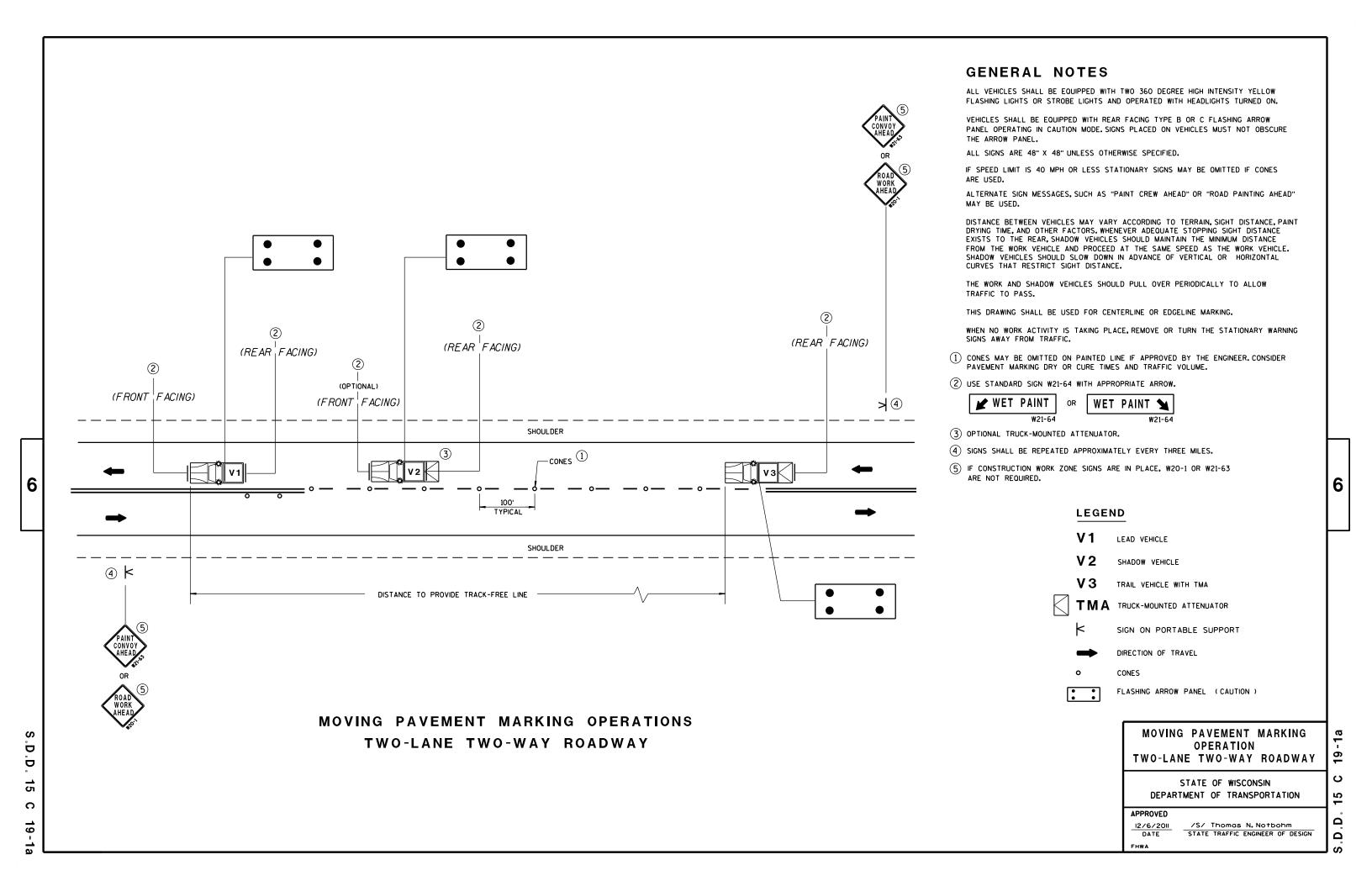
WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM

PREVIOUS WORK AREA OR SIGNING.











# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov