#### MAD MAY 2014

#### ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat

Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Sign Plates

Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections

TOTAL SHEETS = 150

#### DESIGN DESIGNATION

(2012) = 10400A.A.D.T. A.A.D.T. (2034) = 13400D.H.V. = 970 = 60/40 = 8.5% DESIGN SPEED = 55 MPH = 2,613,400 **ESALS** 

#### CONVENTIONAL SYMBOLS

WOODED OR SHRUB AREA

PLAN **PROFILE** GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE WATER MARSH AREA UTILITY PEDESTAL POWER POLE

TELEPHONE POLE

Ø

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

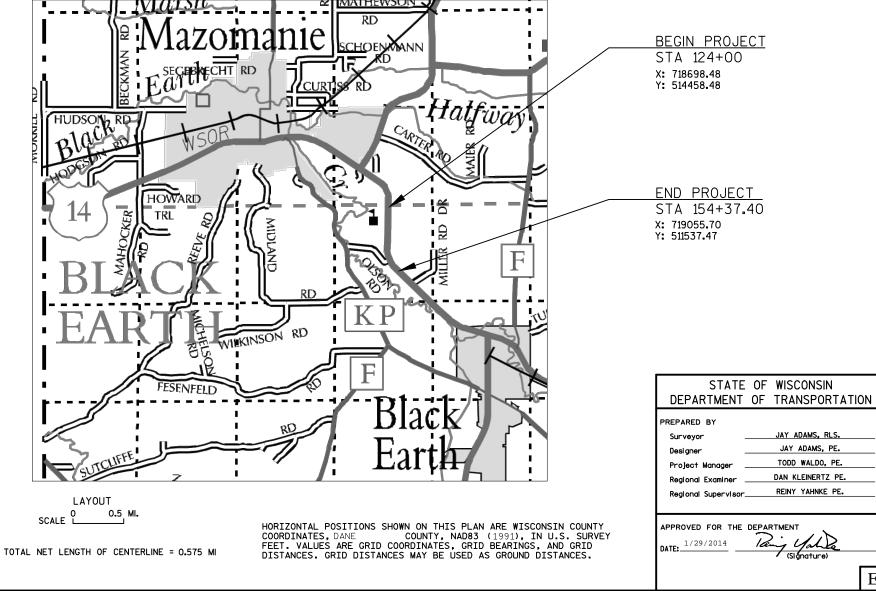
PLAN OF PROPOSED IMPROVEMENT

## SPRING GREEN - MADISON

WISCONSIN HEIGHTS HS DRIVE TO OLSON ROAD

**USH 14** DANE COUNTY

> STATE PROJECT NUMBER 5310-01-73



FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

5310-01-73

## 2

#### **GENERAL NOTES**

- CURVE DATA IS BASED ON ARC DEFINITION.
- COORDI NATES SHOWN ON THE PLAN ARE REFERENCED TO THE DANE COUNTY COORDI NATE SYSTEM, NAD 83 (1991).
- LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A DIRECT CALL TO THE INDIVIDUAL UTILITY COMPANIES, WHICH HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGER'S HOTLINE.
- ALL RADII ARE MEASURED TO EDGE OF PAVEMENT OR FLAG OF CURB UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.
- NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.
- WHEN PORTIONS OF EXISTING ASPHALTIC SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS. THE LOCATION OF SAW JOINTS AND THE AMOUNT REMOVED AT SIDE ROADS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE EXACT LOCATION OF PRIVATE AND FIELD ENTRANCES ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFETR OPERATIONS ARE COMPLETE.
- WHEN THE QUANTITY OF HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OF THE THICKNESS OF THE MATERIAL THAT IS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- HMA PAVEMENT QUANTITY IS BASED ON THE UNIT DENSITY OF 112LB/SY/IN.
- PLACE ASPHALTIC SURFACE AND HMA PAVEMENT IN THE FOLLOWING NUMBER OF LAYERS. THE 12.5mm GRADATION MAY BE USED FOR ALL LAYERS.
  - 3.5" ASPHALTIC SURFACE TEMPORARY IN ONE LAYER
  - 1.75" HMA PAVEMENT IN ONE LAYER
  - 3.5" HMA PAVEMENT IN 2 LAYERS
  - 5. 25" HMA PAVEMENT IN 3 LAYERS
- STATION AND OFFSETS FOR CULVERT PIPES ARE COMPUTED TO THE ENDS OF THE PIPE, AT THE INVERT.
- THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.
- WATER FOR PROJECT MAY NOT BE WITHDRAWN FROM BLACK EARTH CREEK OR ITS TRIBUTARIES.
- SILT FENCE WILL BE PLACED AS DIRECTED BY THE ENGINEER.
- THE RATE OF APPLICATION FOR TACK COAT IS COMPUTED AT 0.05 GAL/SY.
- THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER SHALL CONFIRM THE LOCATION OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. AT THAT TIME, THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION CONTROL ITEM INCIDENTAL TO THE COST OF THE RESPECTIVE BID ITEM.
- EXCAVATION OF EXISTING CRACKED AND SEATED PAVEMENT WILL BE PAID FOR UNDER 205. 0100 COMMON EXCAVATION ONLY.
- EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION OF EBS WILL BE DETERMINED BY THE ENGINEER.

STATE PROJECT NO: 5310-01-73 HWY: USH 14 COUNTY: DANE GENERAL NOTES SHEET NO: E

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : \_\_\_ ORIGINATOR : DIST \_ PLOT SCALE : 1:1

## 2

#### **UTILITY COMPANIES & PERSONNEL**

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molsen@atcllc.com

Jim Briggs - Field Contact ATC Management, Inc. - Electricity W234 N2000 Ridgeview Parkway Ct Waukesha, WI. 53188-1022 (262) 506-6974 Office (414) 651-1830 Mobile

Jerry Myers

TDS Telecom - Communication Line

(Black Earth Telephone) 525 Junction Rd, 5th Fl

P.O. Box 5158

Madison, WI 53705-0158

(608) 664-4404

Jerry.myers@tdstelecom.com

Linda Kilgore - Field Contact

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(608) 807-7792 Mobile

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(Black Earth Electric Utility – Electricity)

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Black Earth, WI 53515 (608) 767-2561 Office

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vanguard@blackearthwisconsin.com

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sbeversdorf@mge.com

Mark Elworthy

Wisconsin Heights School District

10173 US Hwy 14

(608) 767-2595

melworthy@wisheights.k12.wi.us

#### **DNR LIASON**

Eric Hegglund

3911 Fish Hatchery Road Fitchburg, WI 53711

Thomburg, W100711

Phone (608)275-3301 Eric.Heggelund@wi.gov STANDARD ABBREVIATIONS

MAX.

MAXI MUM

UNDERGROUND (CABLE)

VERTI CAL CURVE

WEST

AC.

ACRE

LONG CHORD

MARKER POST

LUMP SUM

LC.

LS

M. P.

AC.	ACRE	MAX.	MAXI MUM
AGG.	AGGREGATE	MGAL	1000 GALLONS
AH	AHEAD	MI N.	MI NI MUM
<	ANGLE	N. C.	NORMAL CROWN OR NO CHANGE
AE, AEW	APRON ENDWALL	N	NORTH
ASPH.	ASPHALTI C	NO.	NUMBER
A. D. T.	AVERAGE DAILY TRAFFIC	PAV' T	PAVEMENT
B. F.	BACK FACE	P. L. E.	PERMANENT LIMITED EASEMENT
BK.	BACK	P. C.	POINT OF CURVATURE
BEG.	BEGI N	P. I.	POINT OF INTERSECTION
B. M.	BENCH MARK	P. T.	POINT OF TANGENCY
C/L	CENTER LINE	V. P. C.	VERTICAL POINT OF CURVATURE
D	CENTRAL ANGLE OR DELTA	V. P. I.	VERTICAL POINT OF INTERSECTION
C. M. C. P.	CORRUGATED METAL CULVERT PIPE	V. P. T.	VERTICAL POINT OF TANGENCY
C. M. P.	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CO.	COUNTY	P. E.	PRI VATE ENTRANCE
СТН	COUNTY TRUNK HI GHWAY	P. L.	PROPERTY LINE
CR.	CREEK	R	RADI US OR RANGE
C. A. B. C.	CRUSHED AGGREGATE BASE COURSE	R/L	REFERENCE LINE
C. Y.	CUBI C YARD	R. C. C. P.	REINFORCED CONCRETE CULVERT PIPE
C. P.	CULVERT PIPE	RT	RI GHT
C. & G.	CURB AND GUTTER	REQ' D	REQUI RED
D	DEGREE OF CURVE	R. H. F.	RI GHT HAND FORWARD
D. H. V.	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DI A.	DI AMETER	R.	RI VER
DI SCH.	DI SCHARGE	RD.	ROAD
EA	EACH	SHLD.	SHOULDER(S)
E	EAST	SHR.	SHRI NKAGE
ELEC.	ELECTRIC(AL), ELEC. CABLE	S	SOUTH
EL., ELEV.	ELEVATI ON	S. F.	SQUARE FOOT (FEET)
EXC.	EXCAVATI ON	SDD	STANDARD DETAIL DRAWING(S)
F. F.	FACE TO FACE	STH	STATE TRUNK HI GHWAY
FERT.	FERTI LI ZER	STA.	STATI ON
F. E.	FI ELD ENTRANCE	S. E.	SUPERELEVATI ON
F/L, F. L.	FLOW LINE	S/L	SURVEY LINE
CWT.	HUNDRED WEIGHT	T	TANGENT
INL	INLET	TEL.	TELEPHONE
I NTER.	I NTERSECTI ON	TEMP.	TEMPORARY
JT.	JOINT	T. L. E.	TEMPORARY LIMITED EASEMENT
LT	LEFT	T. O. C.	TOP OF CURB
L. H. F.	LEFT HAND FORWARD	T.	(TRUCKS) PERCENT OF
L.	LENGTH OF CURVE	TYP.	TYPI CAL
L. F.	LINEAR FOOT (FEET)	UNCL.	UNCLASSI FI ED
T 0	TANK CHAPP	** 0	INDERGRAND (GIRIE)

U.G.

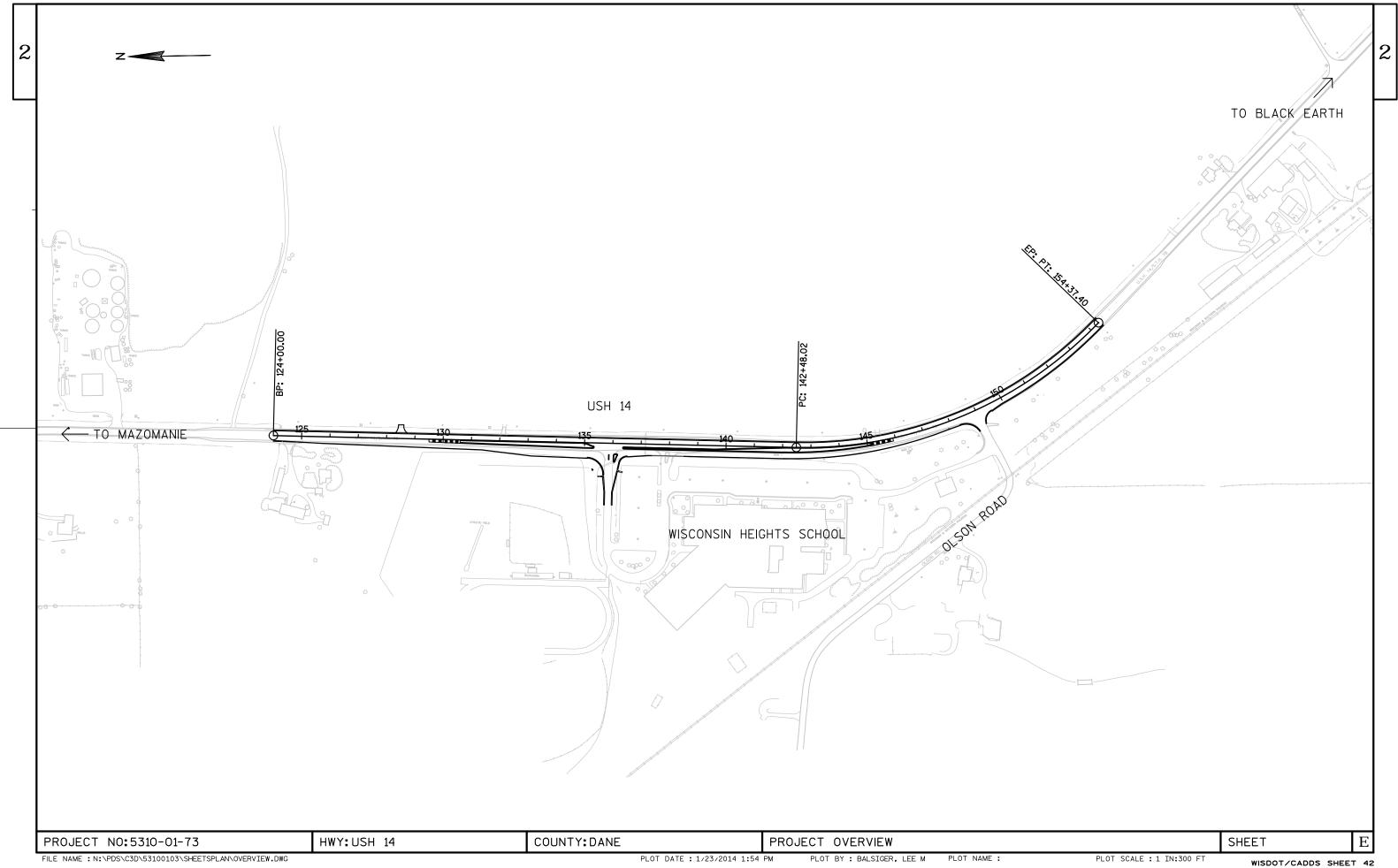
V.C.

W



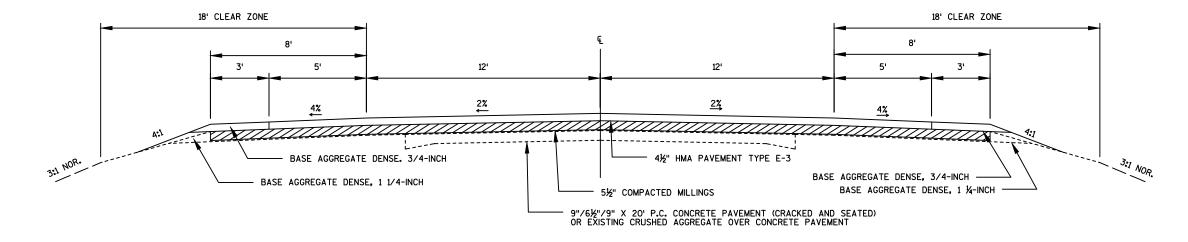
STATE PROJECT NO: 5310-01-73 HWY: USH 14 COUNTY: DANE GENERAL NOTES SHEET NO: E

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ ORG DATE : \_\_\_\_ ORIGINATOR : DIST \_ PLOT SCALE : 1:1



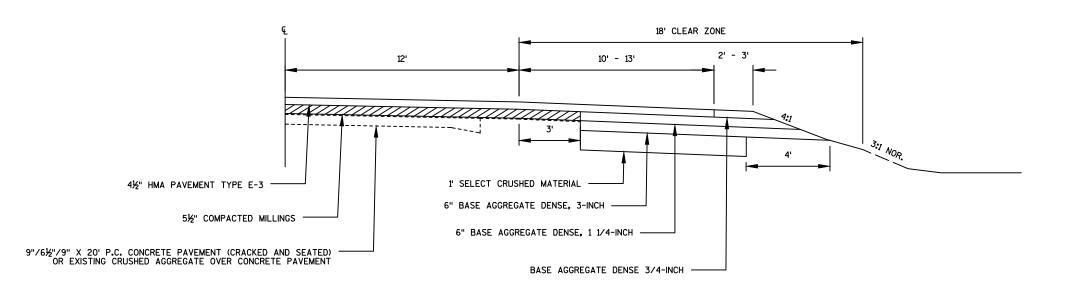
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2



### TYPICAL EXISTING SECTION

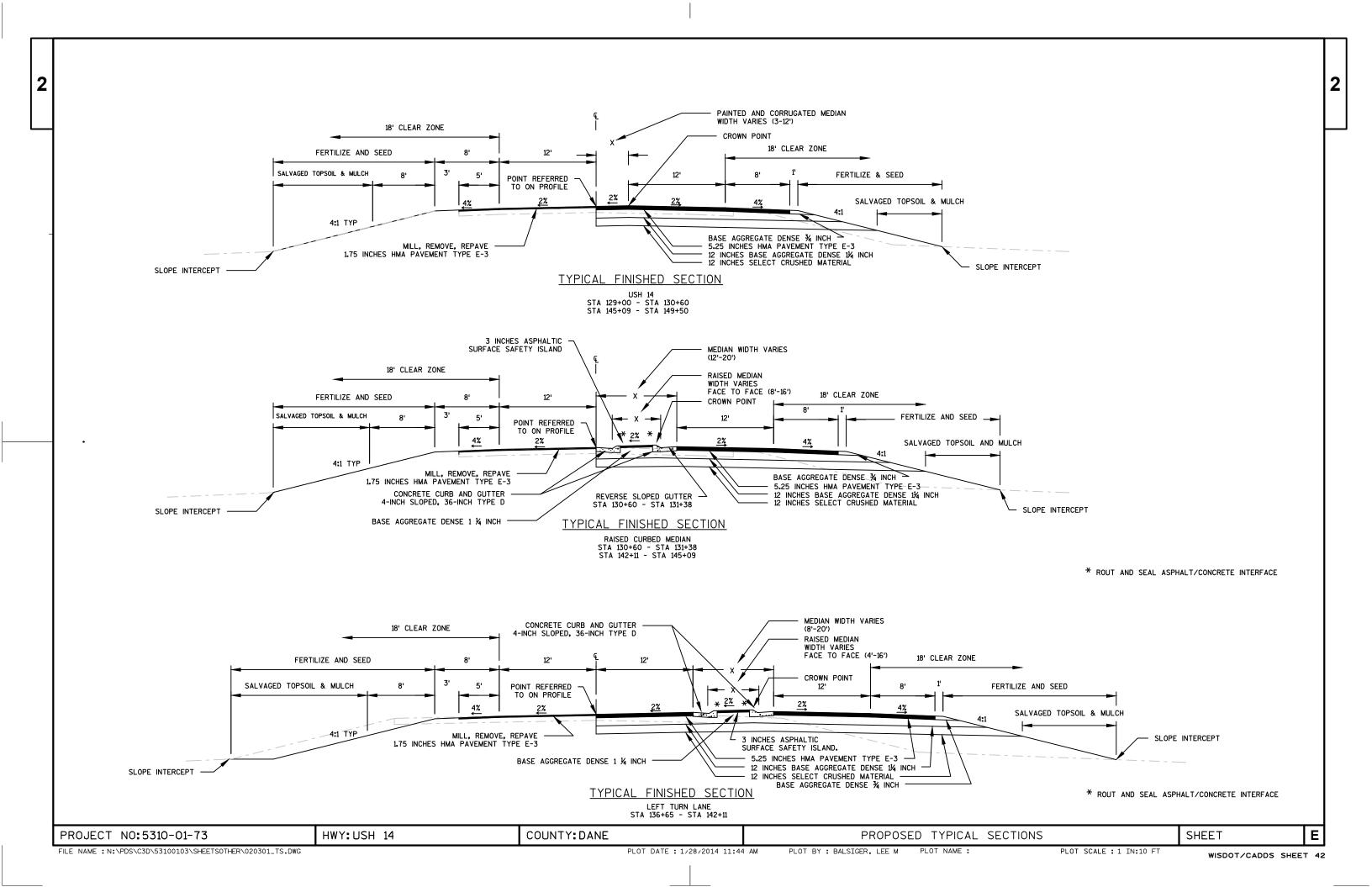
STA 124+00 - 132+00 STA 142+00 - STA 154+37.40

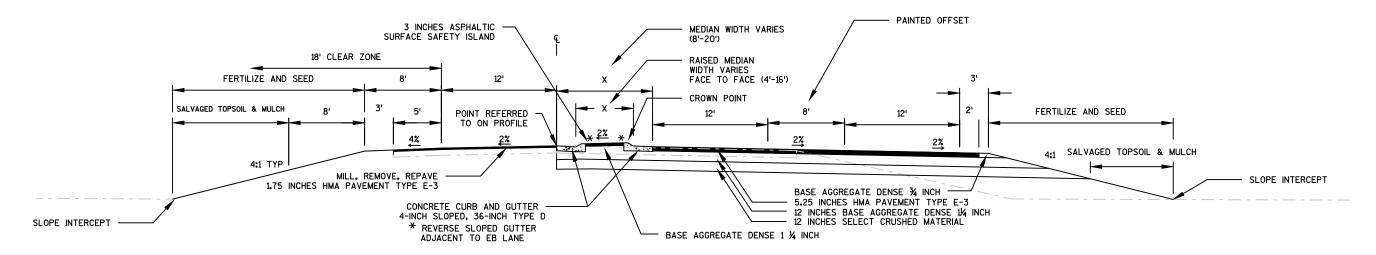


### TYPICAL EXISTING SECTION

TURN LANE AND BYPASS LANE STA 132+00 - 142+00

PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE EXISTING TYPICALS SECTIONS SHEET

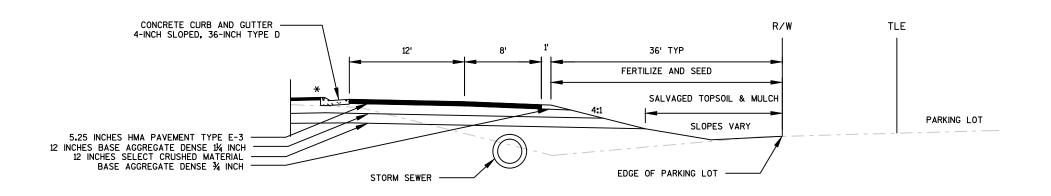




\* ROUT AND SEAL ASPHALT/CONCRETE INTERFACE

### TYPICAL FINISHED SECTION

RIGHT TURN LANE STA 131+38 - STA 135+13



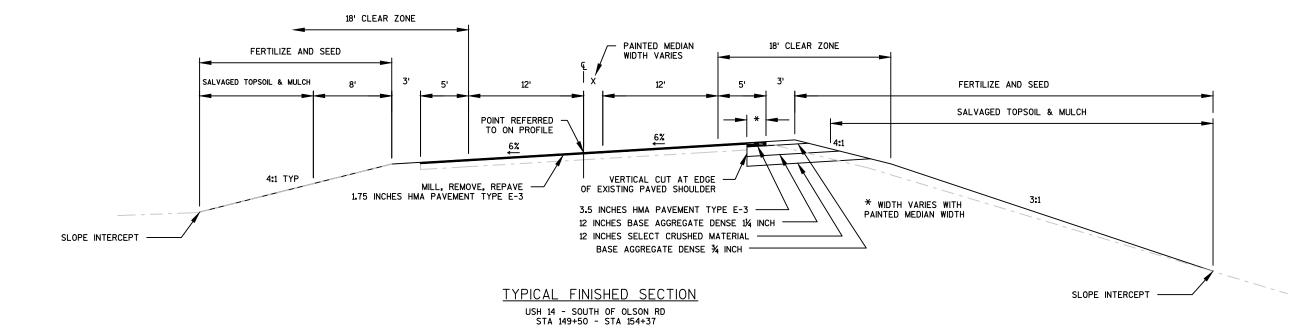
### TYPICAL FINISHED HALF SECTION

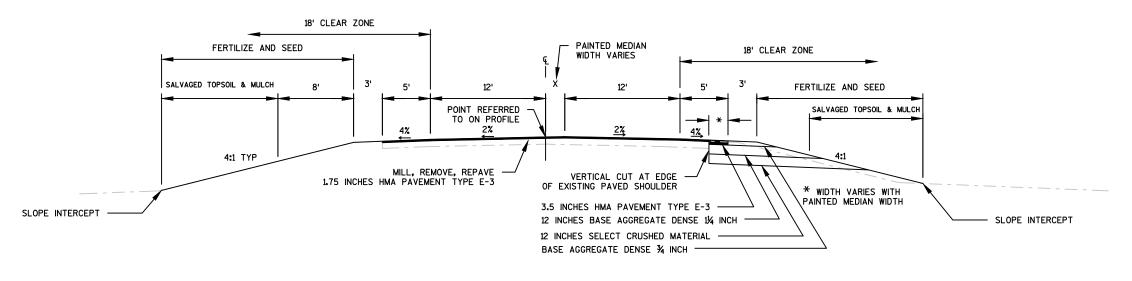
DRAINAGE DITCH STA 138+36 EB - STA 144+35 EB

\* ROUT AND SEAL ASPHALT/CONCRETE INTERFACE

PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE PROPOSED TYPICAL SECTIONS SHEET **E** 







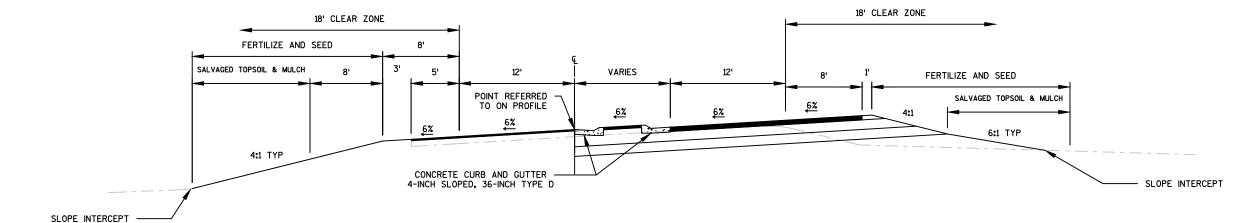
#### TYPICAL FINISHED SECTION

USH 14 - MILL AND REPAVE STA 124+00 - STA 129+00

PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE PROPOSED TYPICAL SECTIONS SHEET **E** 







# SUPERELEVATION SECTION USH 14

FERTILIZE AND SEED

3'

SALVAGED TOPSOIL & MULCH

POINT REFERRED

TO ON PROFILE

2%

VARIES

VARIES

SLOPE INTERCEPT

EXCAVATE DITCH AS SHOWN ON XS SHEETS

TYPCAL FINISHED SECTION

SCHOOL ENTRANCE

CONCRETE CURB AND GUTTER
6-INCH SLOPED, 36-INCH TYPE D

\*\*

VARIES

VARIES

\*\*

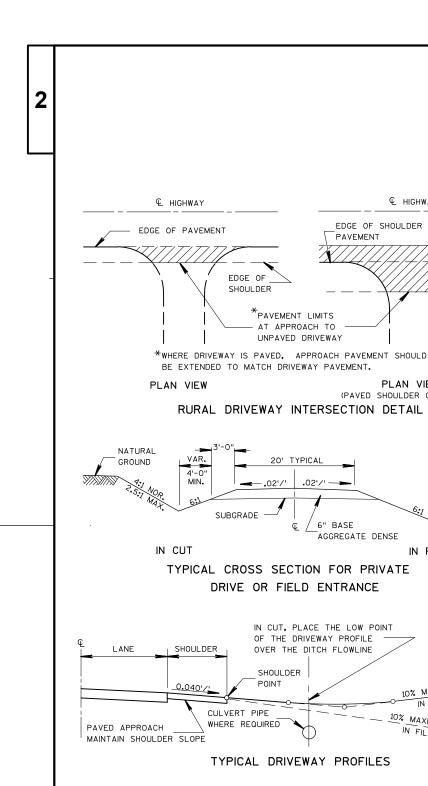
MILL, REMOVE, AND REPAVE
1.75 INCHES MINIMUM HMA PAVEMENT TYPE E-3

# TYPCAL FINISHED SECTION OLSON ROAD

\*\* SALVAGED TOPSOIL, FERTILIZE, SEED AND MULCH DISTURBED AREA BEHIND CURB

\* REMOVE ASPHALTIC SURFACE AND ADD BASE AGGREGATE DENSE AS NEEDED TO RAISE PROFILE.

PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE PROPOSED TYPICAL SECTIONS SHEET **E** 



€ HIGHWAY

PLAN VIEW

(PAVED SHOULDER ON HIGHWAY)

EDGE OF \_

SHOULDER

NATURAL GROUND

NATURAL

GROUND

EXISTING

**ENTERNANT** 

10% MAXIMUM IN CUT

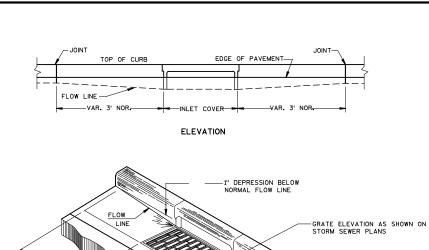
10% MAXIMUM

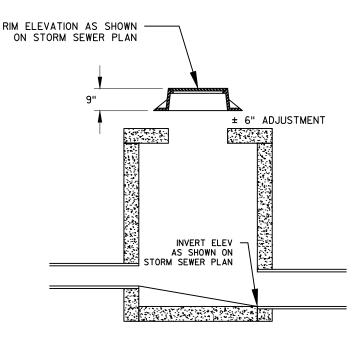
IN FILL

IN FILL

EDGE OF SHOULDER

PAVEMENT

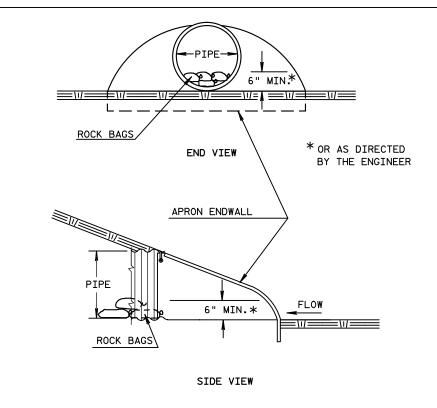


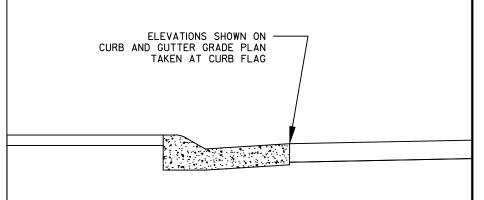


DETAIL FOR COMPUTING MANHOLE ELEVATIONS



DETAIL FOR GUTTER CONSTRUCTION AT INLETS





DETAIL FOR CURB & GUTTER ELEVATIONS

COUNTY: DANE PROJECT NO:5310-01-73 HWY: USH 14 CONSTRUCTION DETAILS

FILE NAME : N:\PDS\C3D\53100103\SHEETSOTHER\021001\_CD.DWG

PLOT DATE: 2/26/2014 11:27 AM

CULVERT PIPE DITCH CHECK

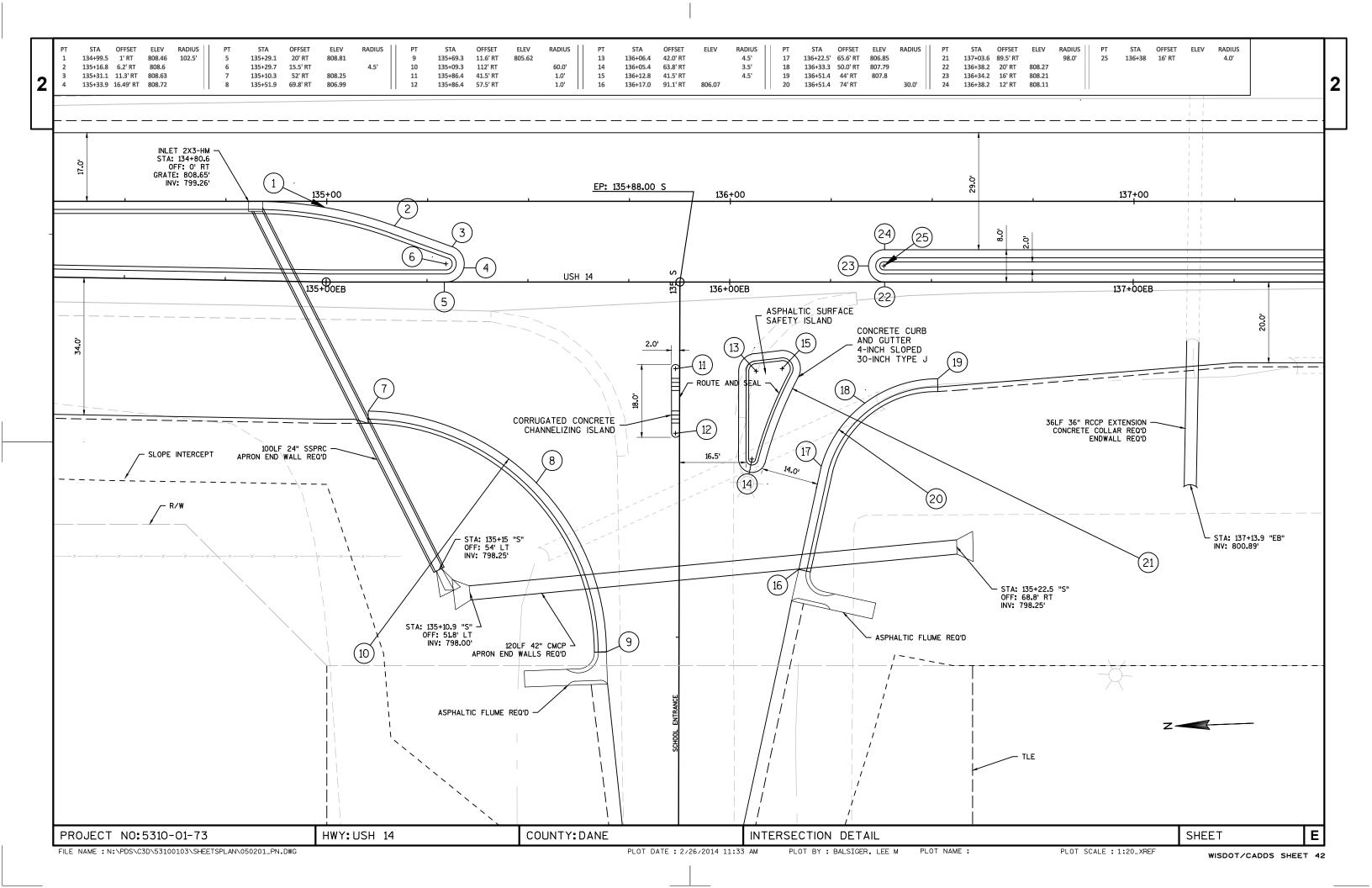
PLOT BY: BALSIGER, LEE M PLOT NAME:

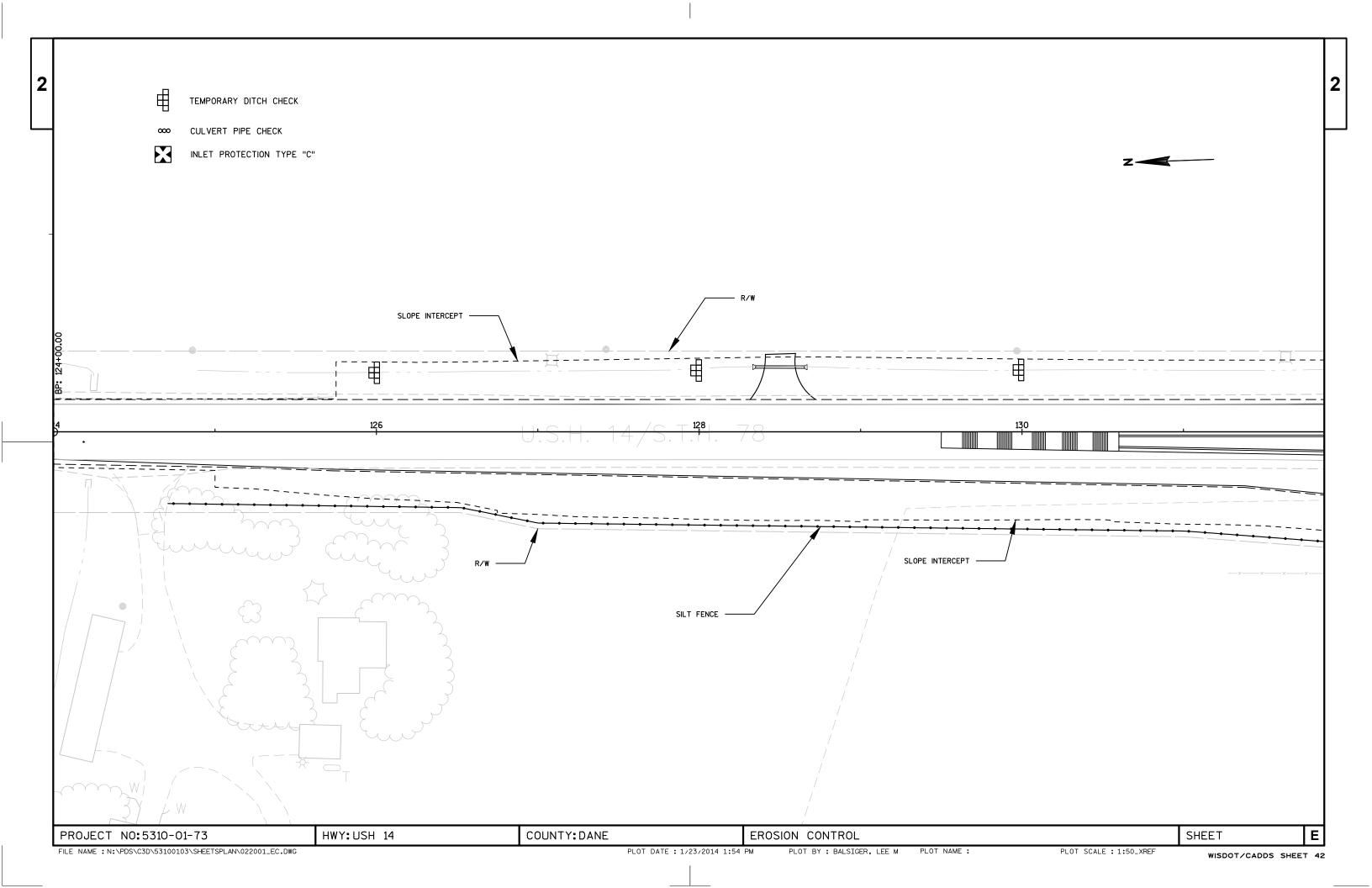
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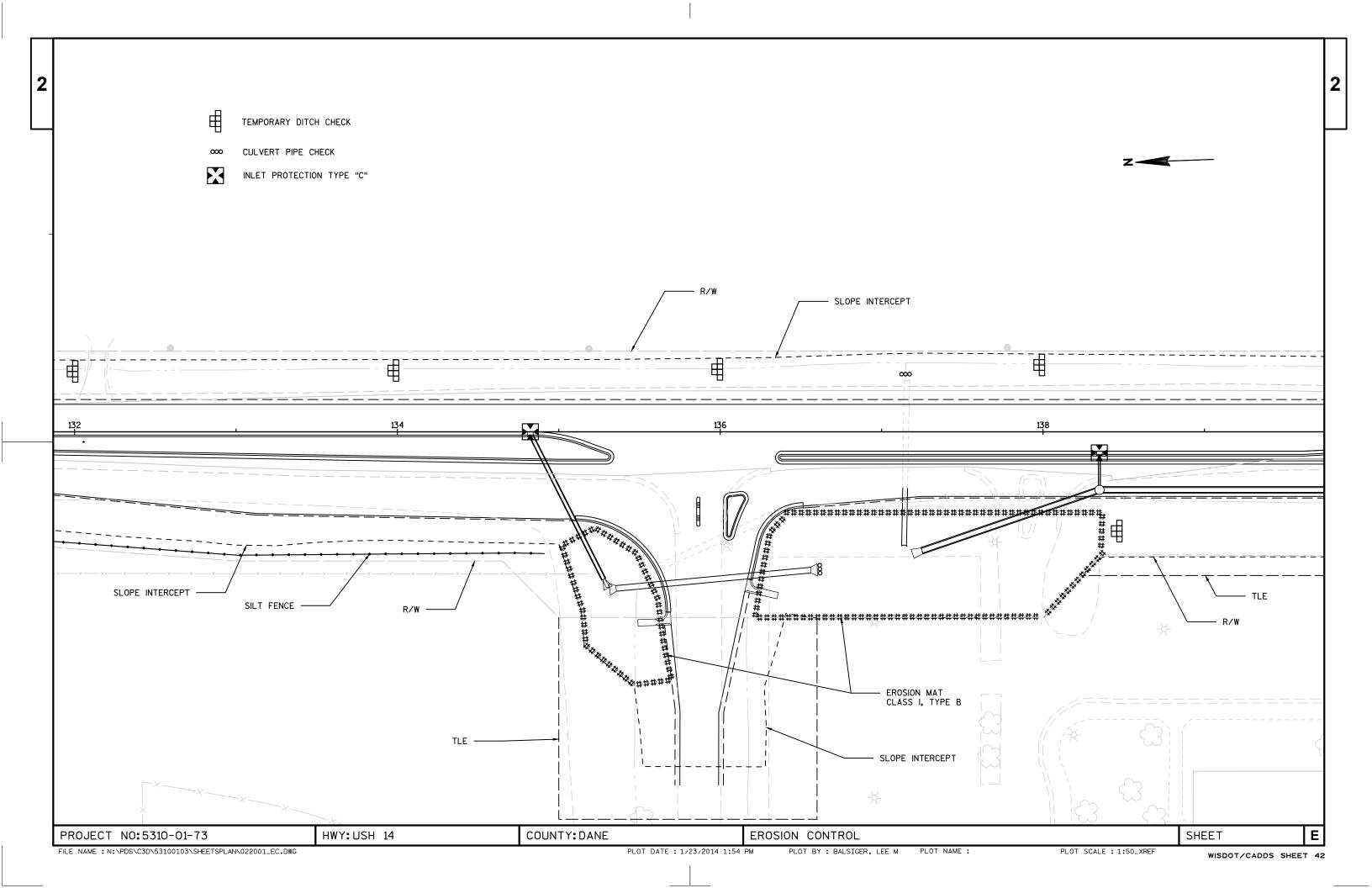
WISDOT/CADDS SHEET 42

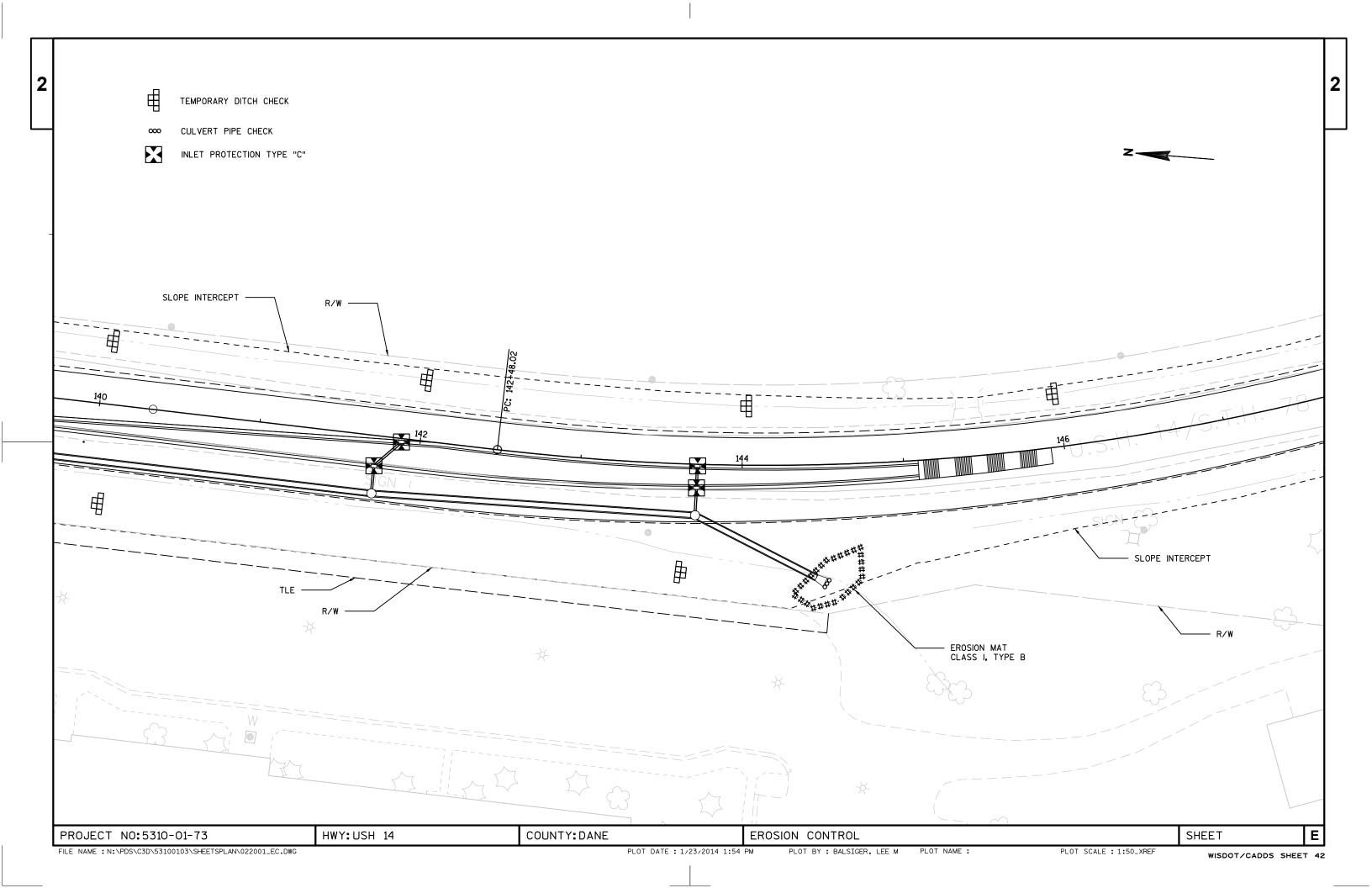
SHEET

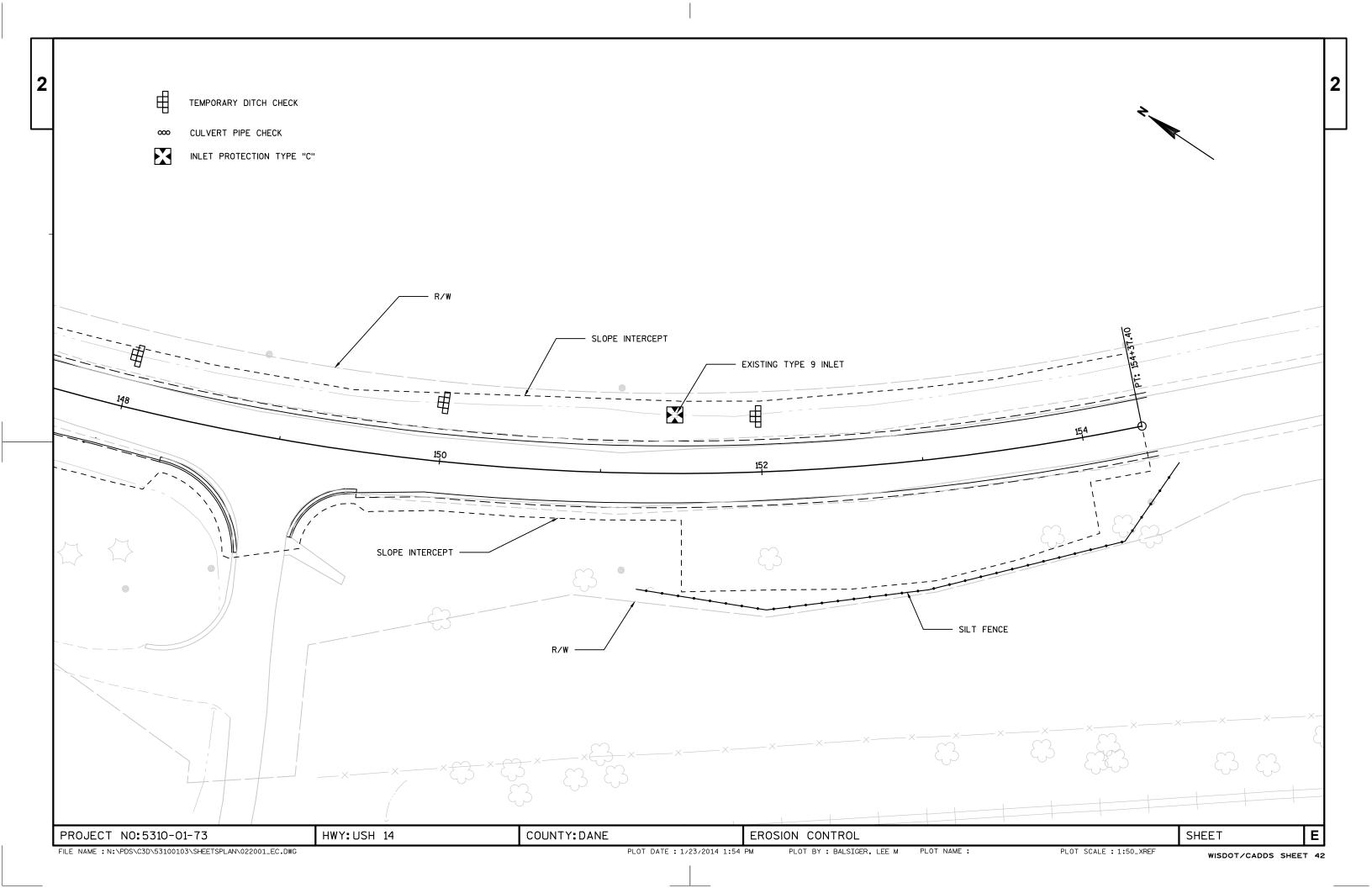
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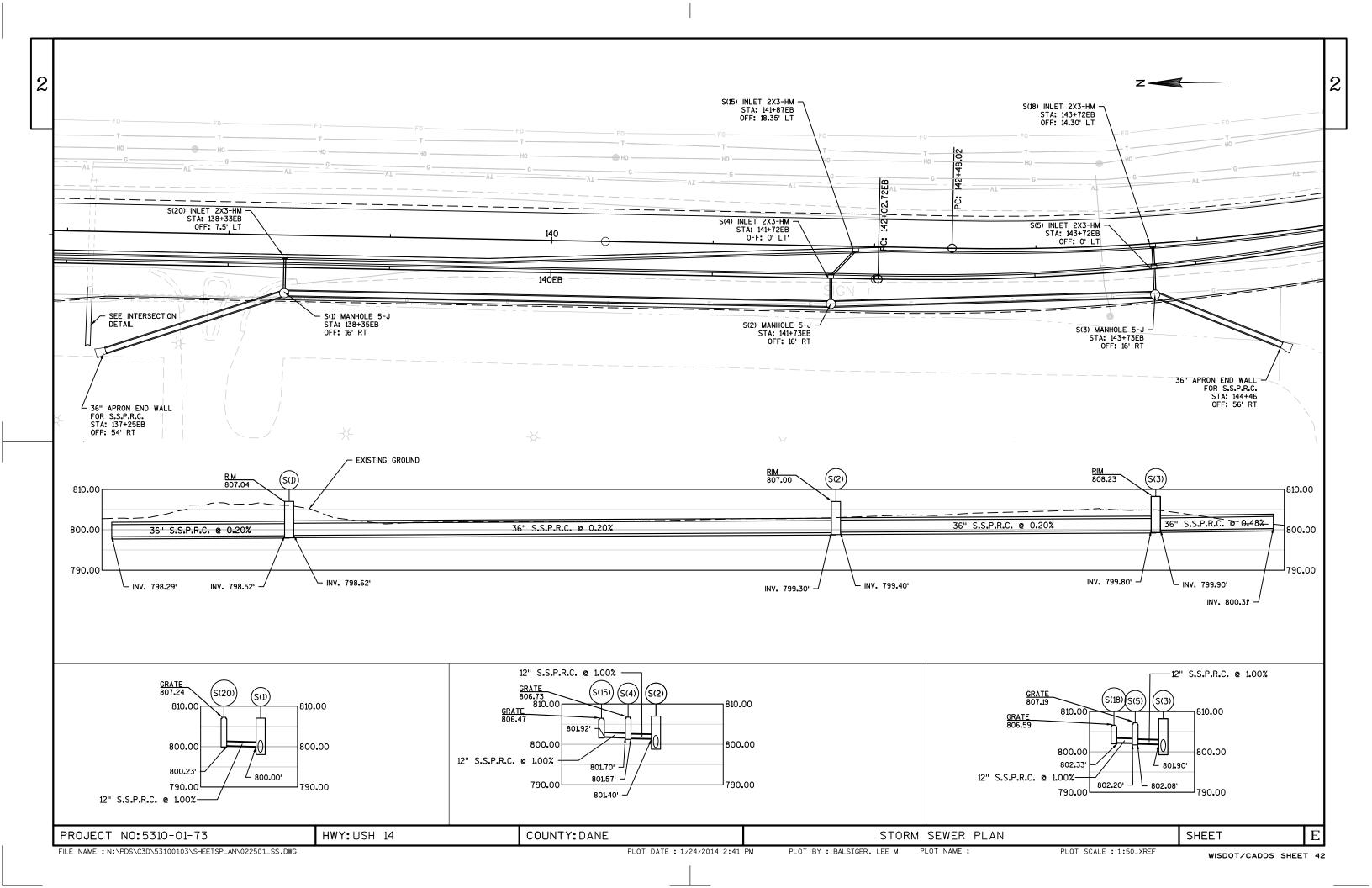


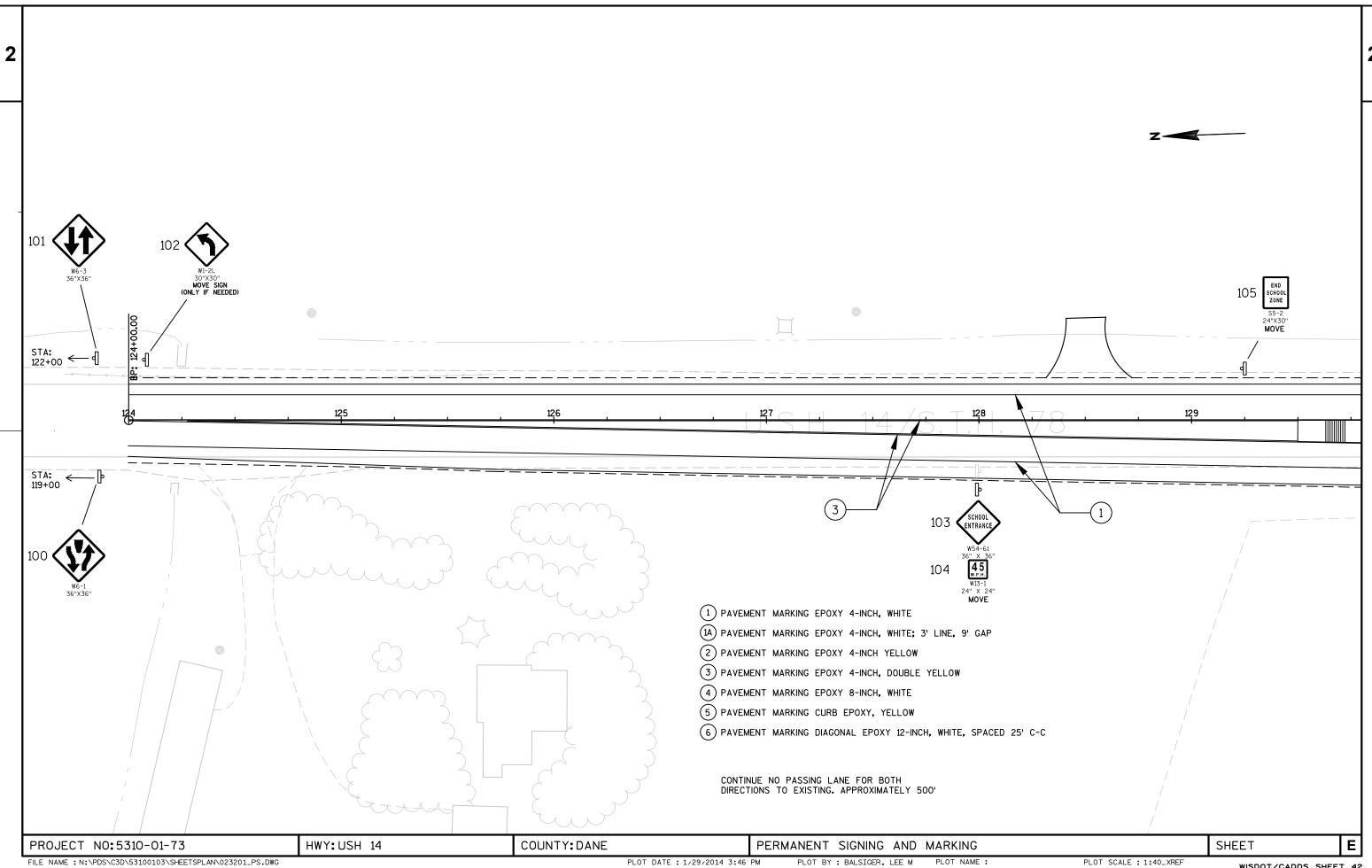


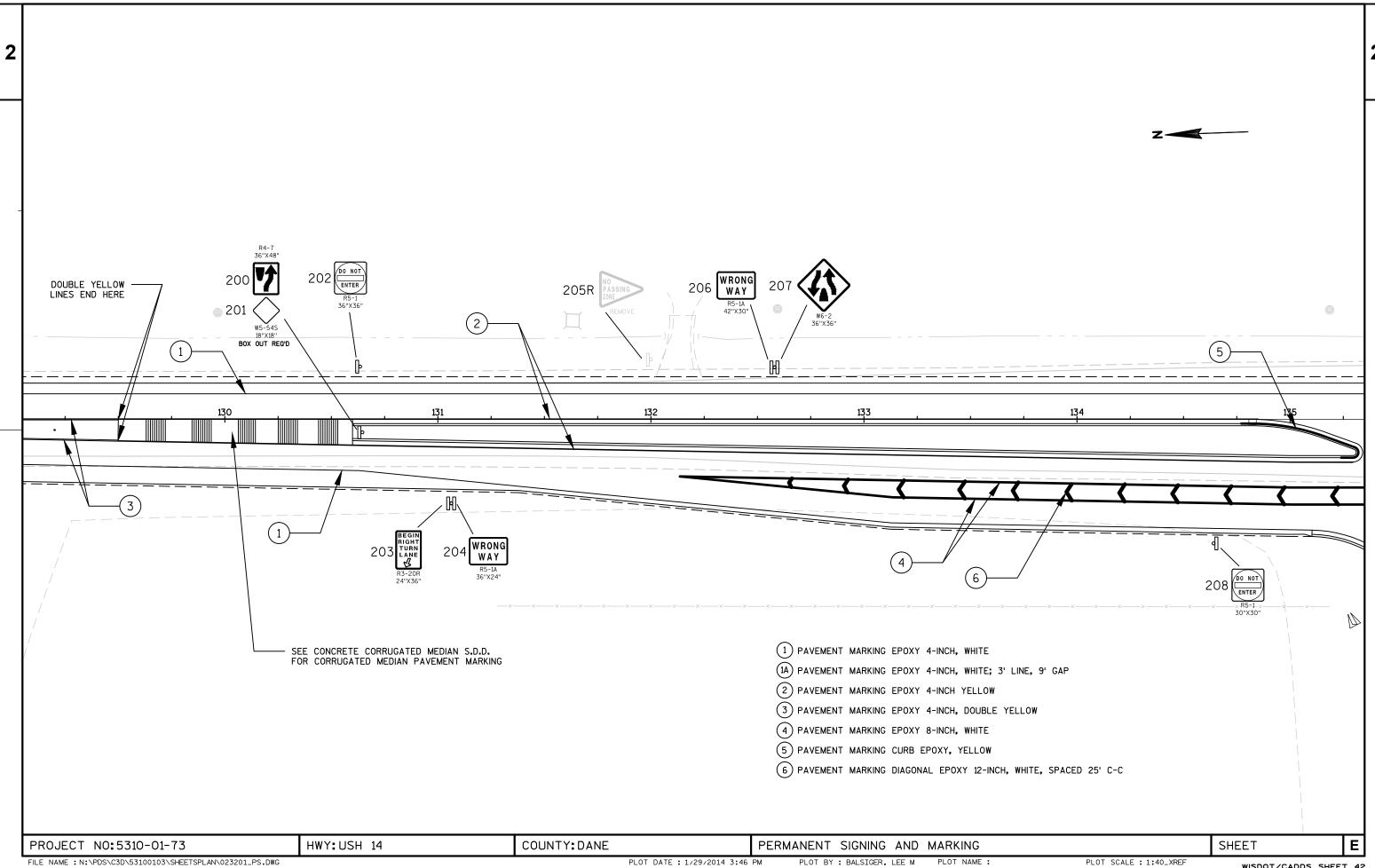


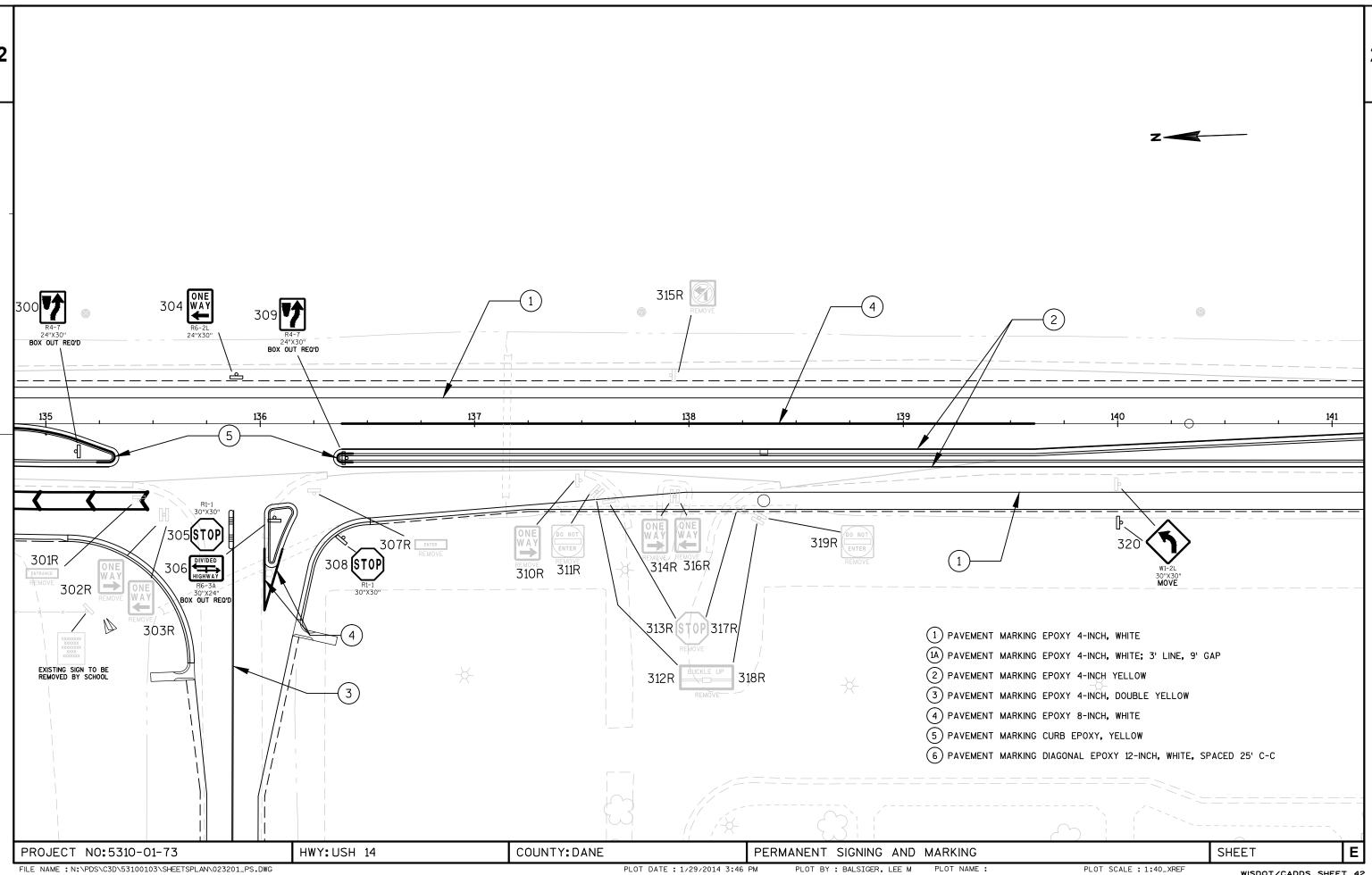


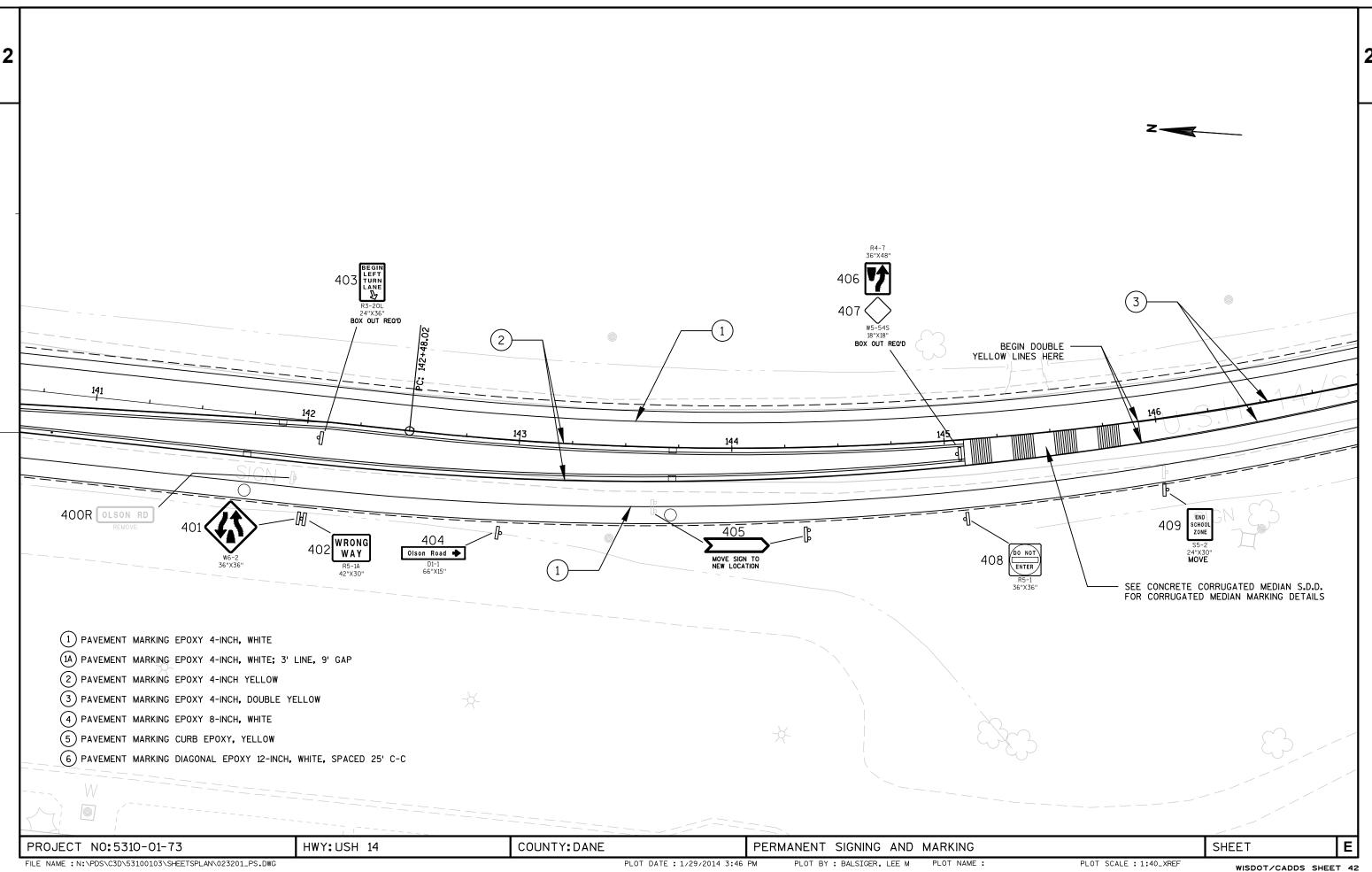


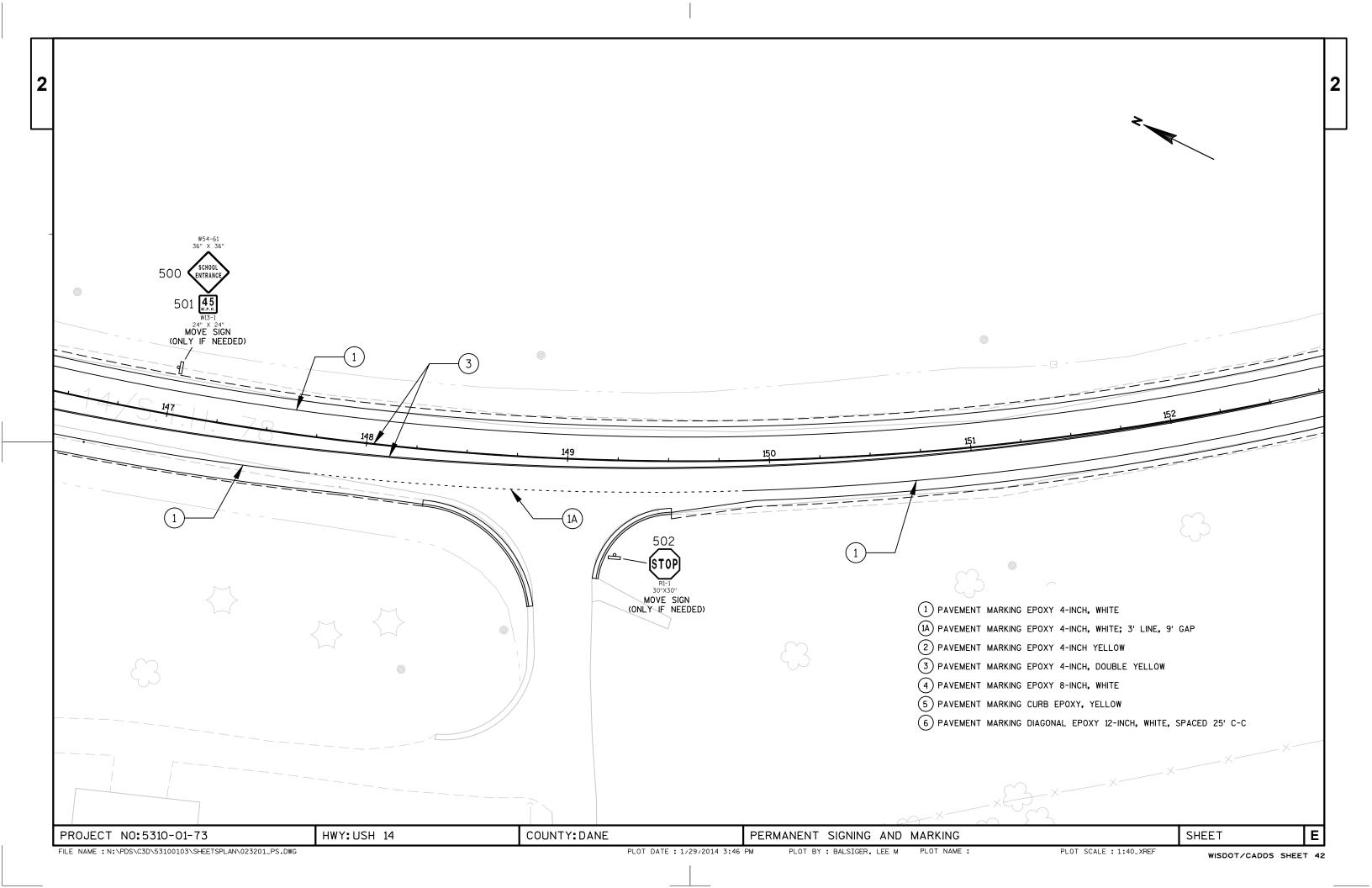


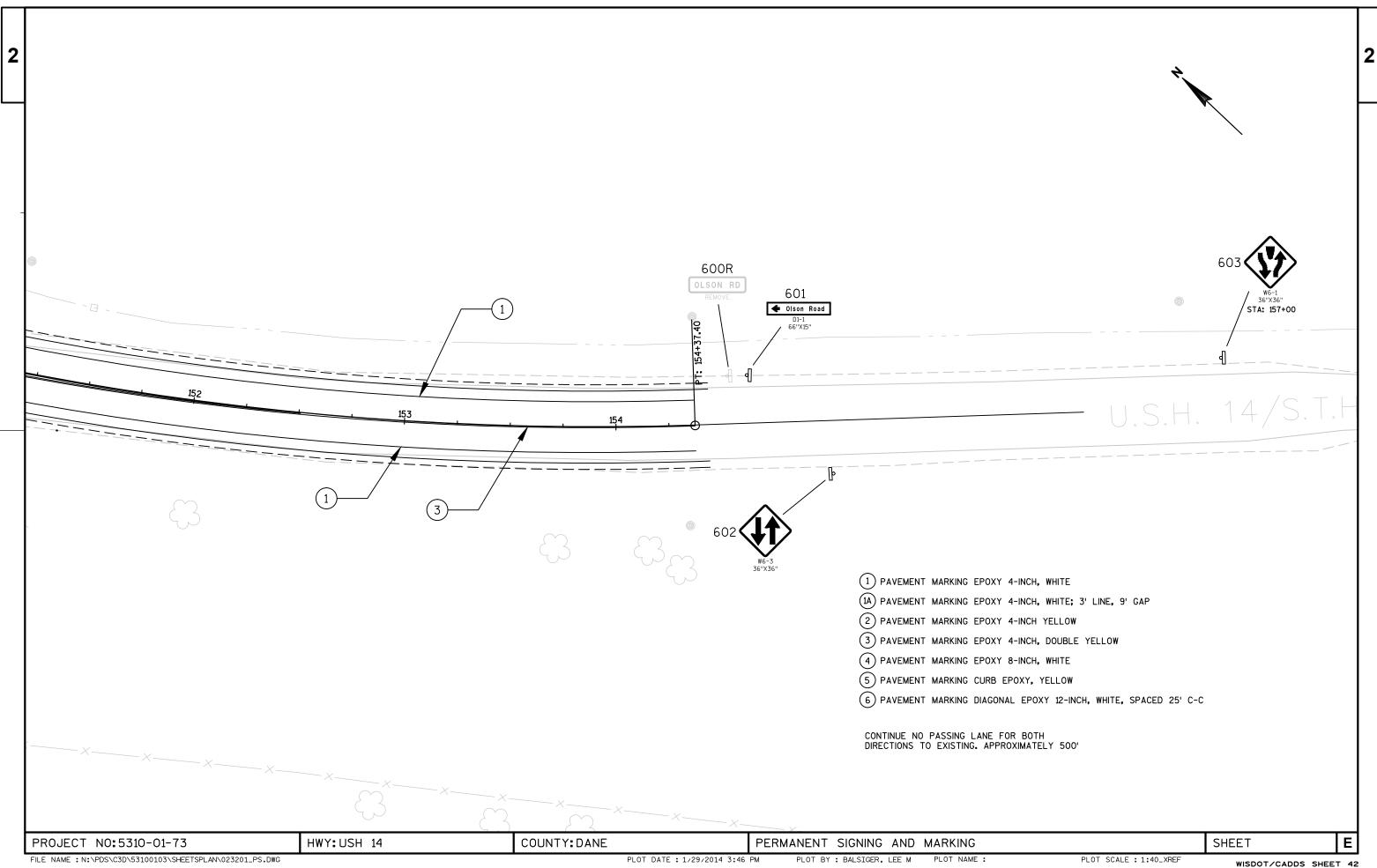


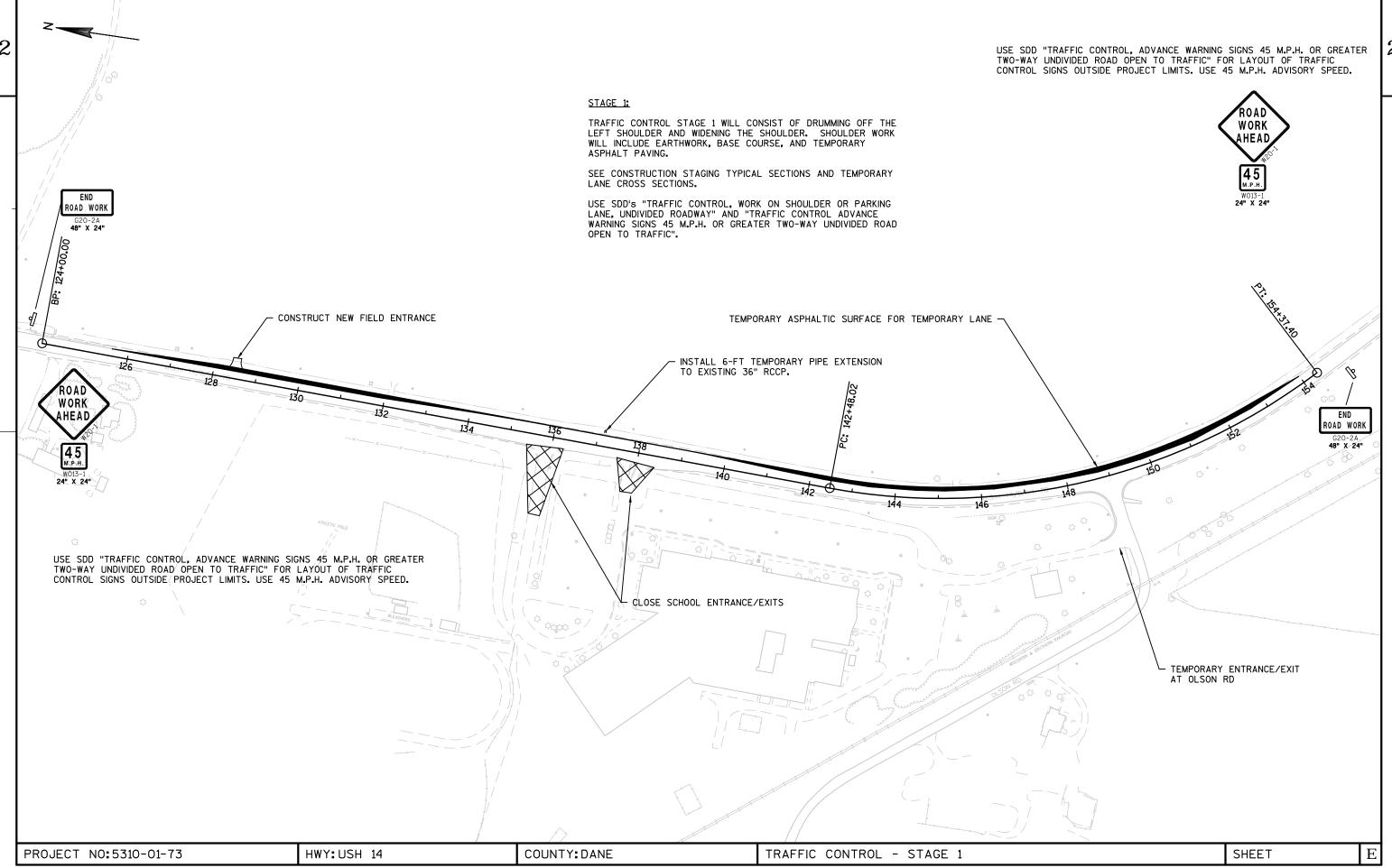


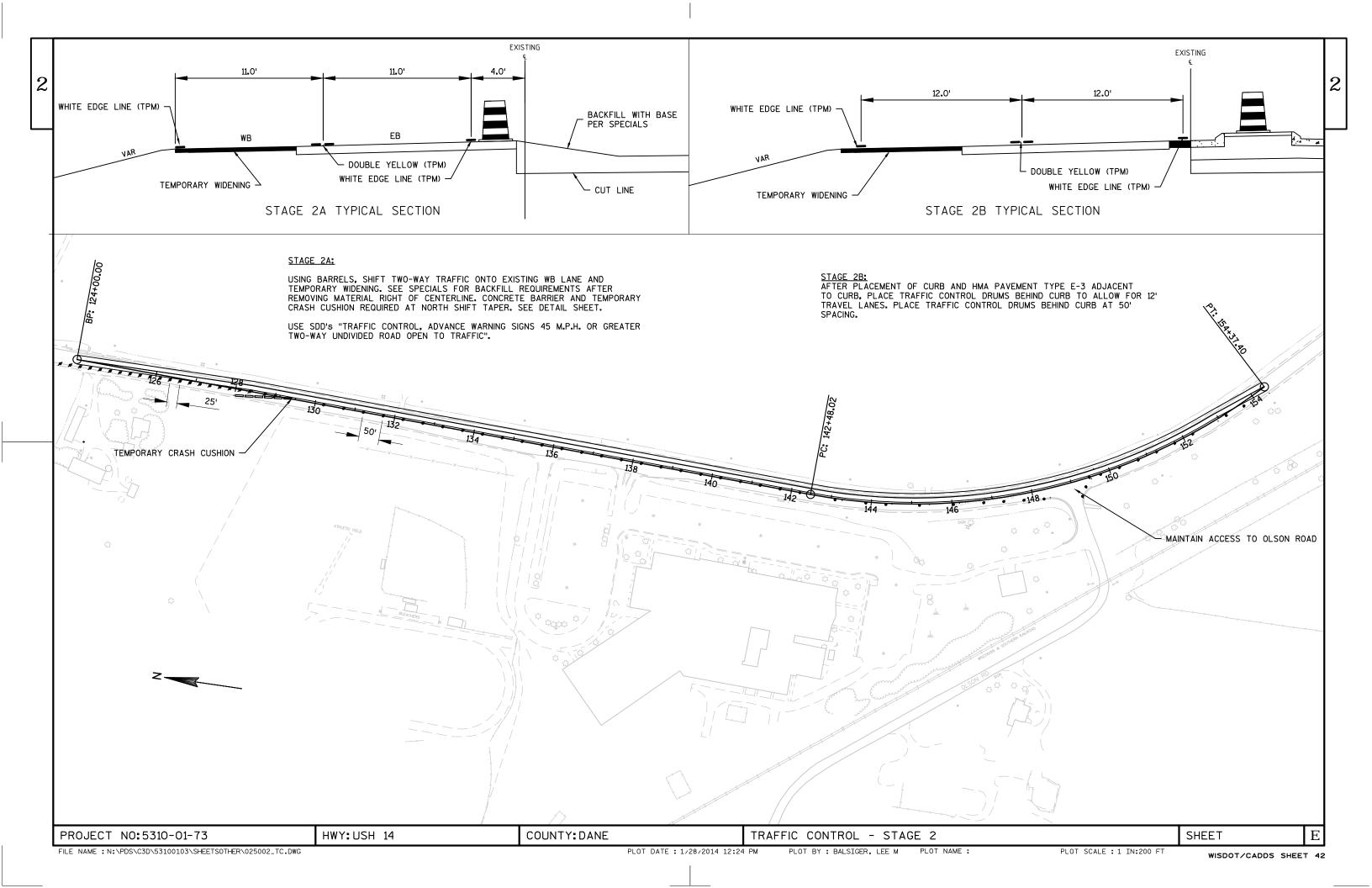


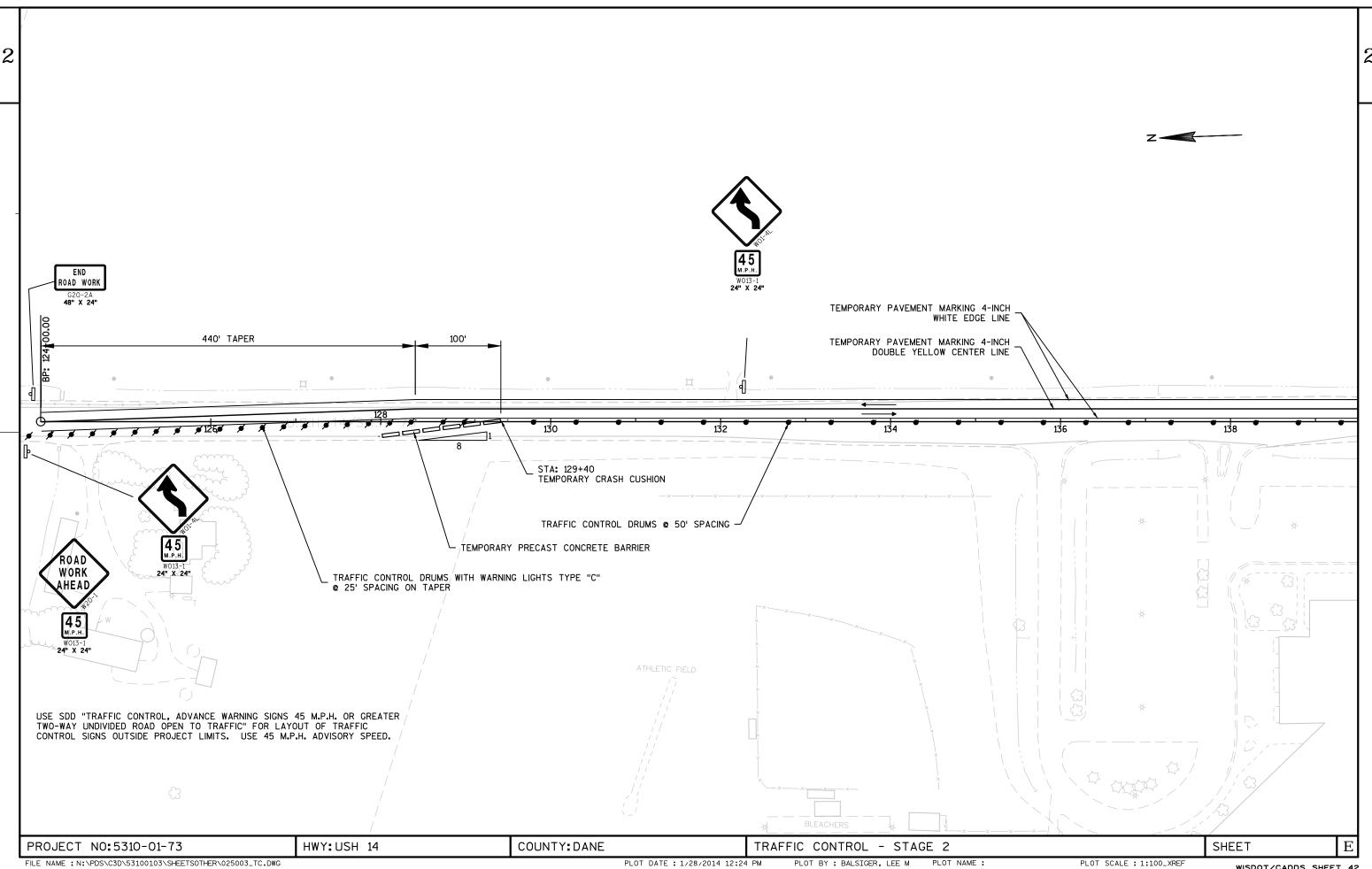


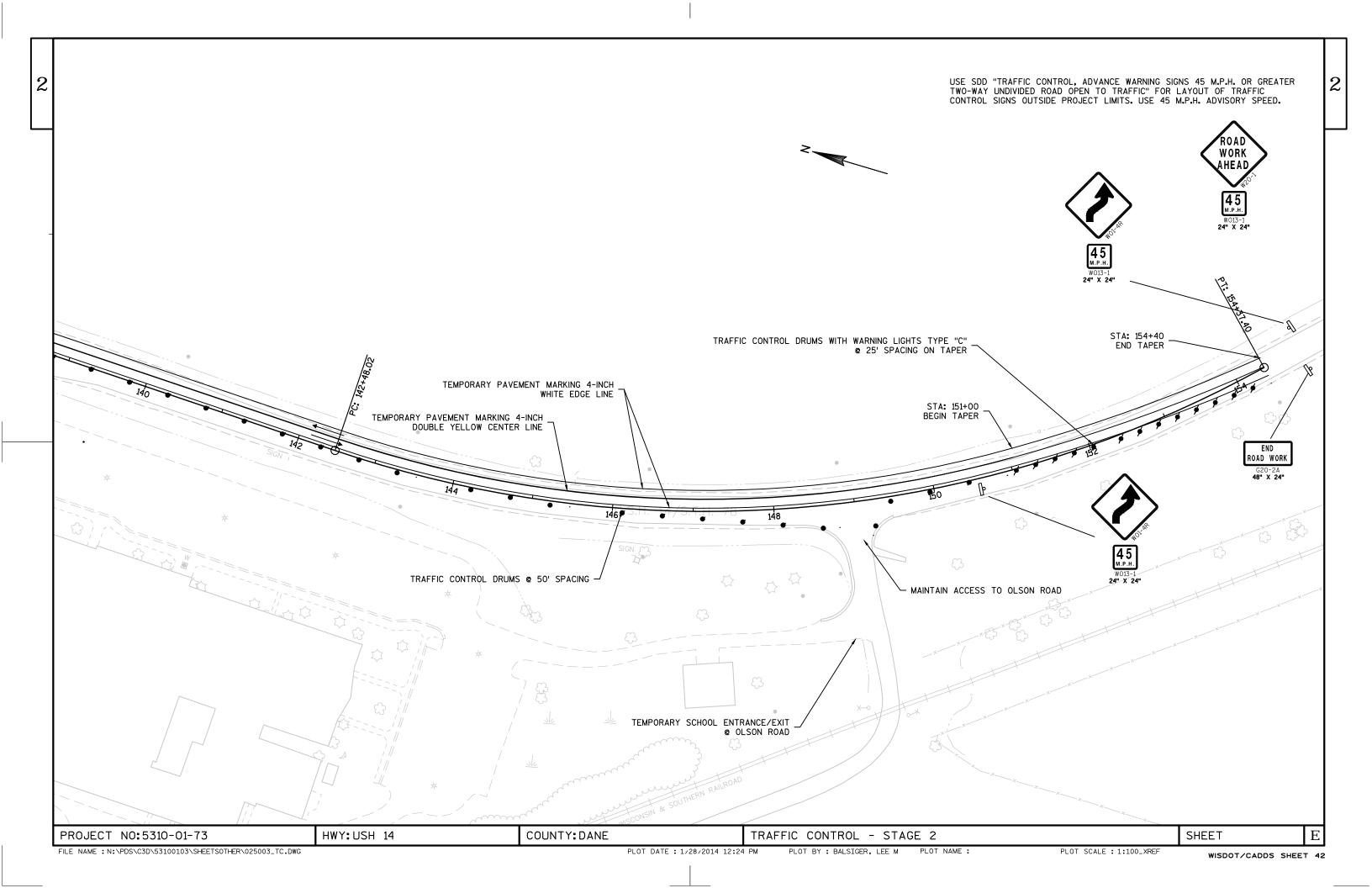


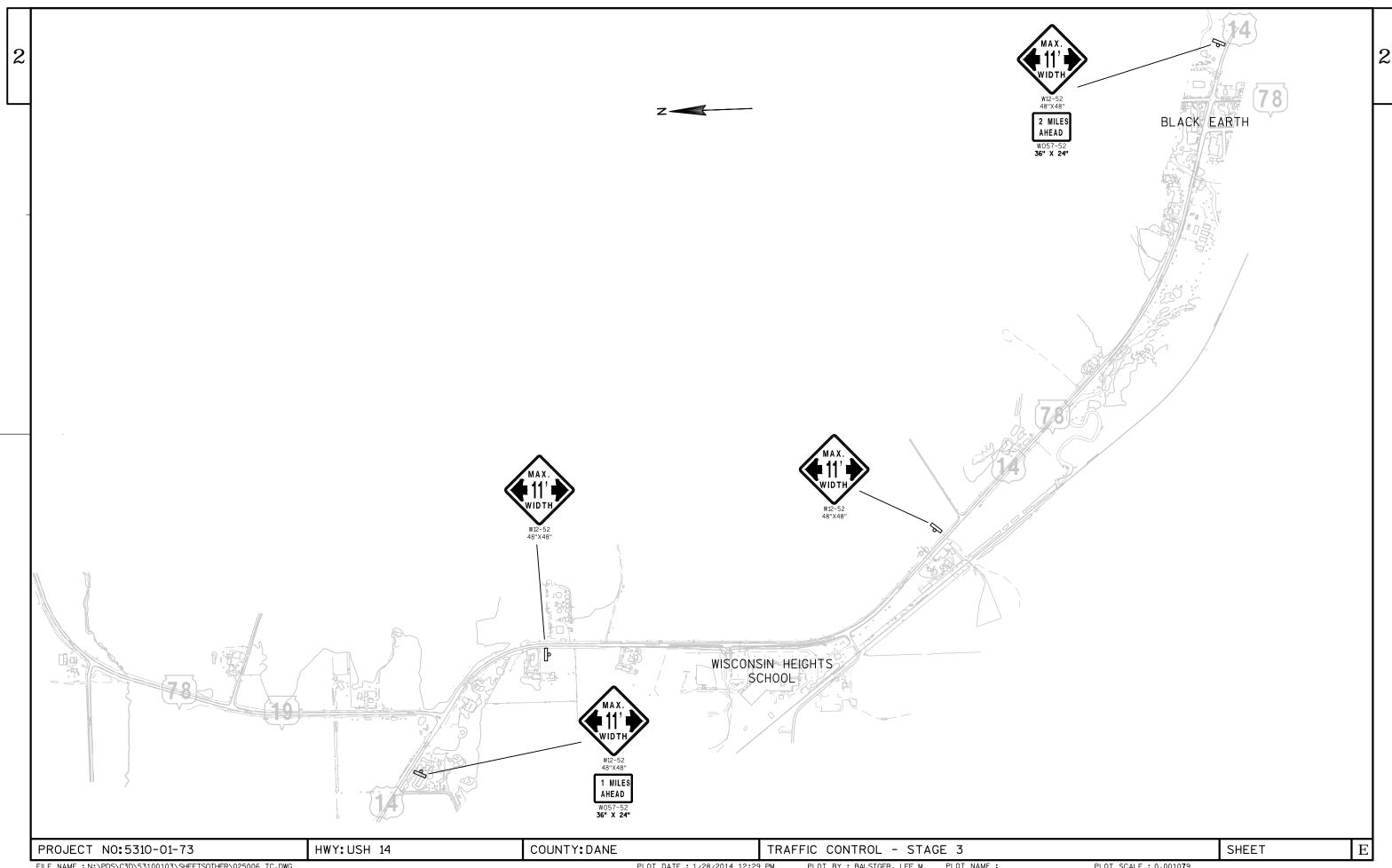




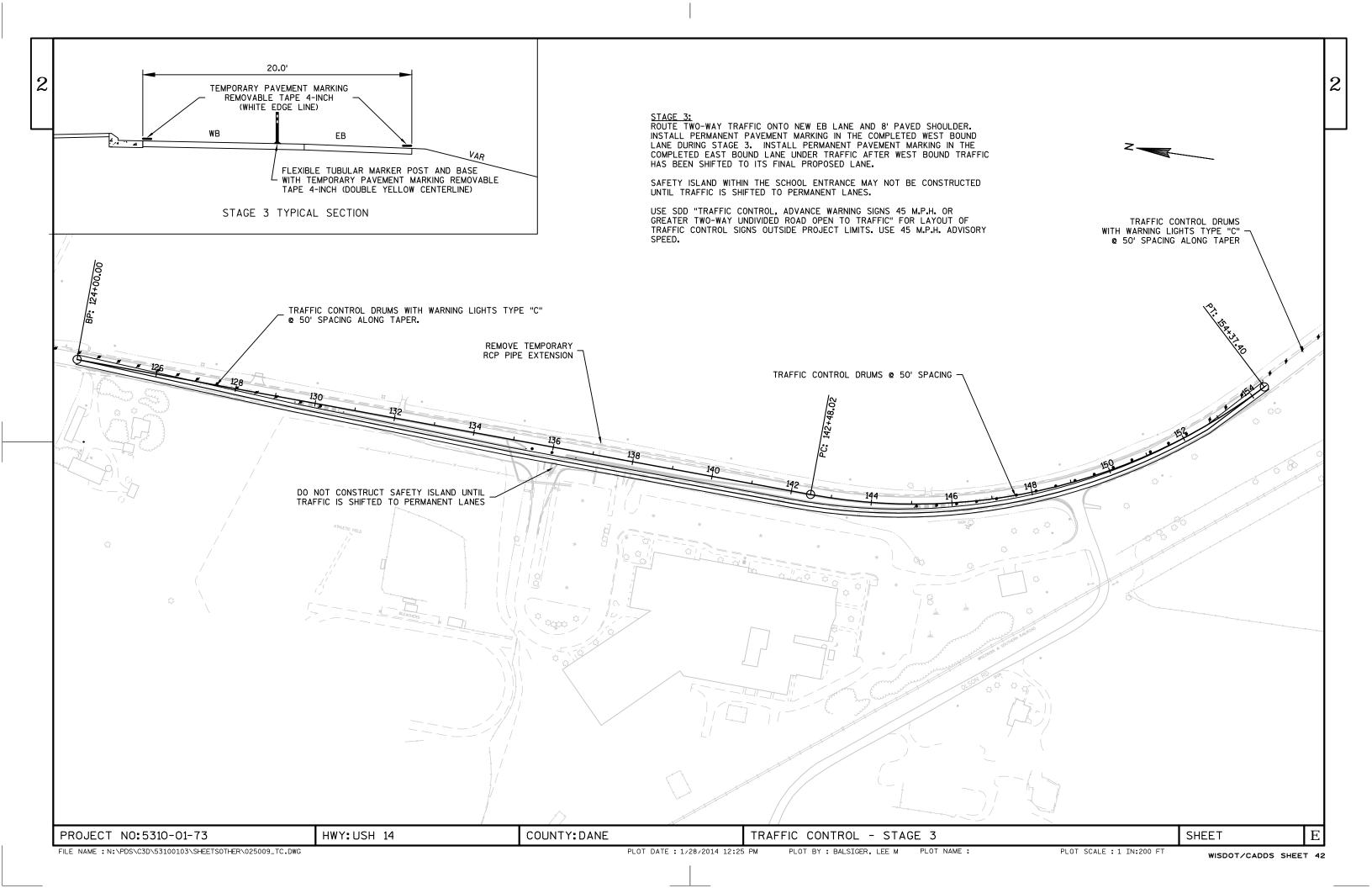


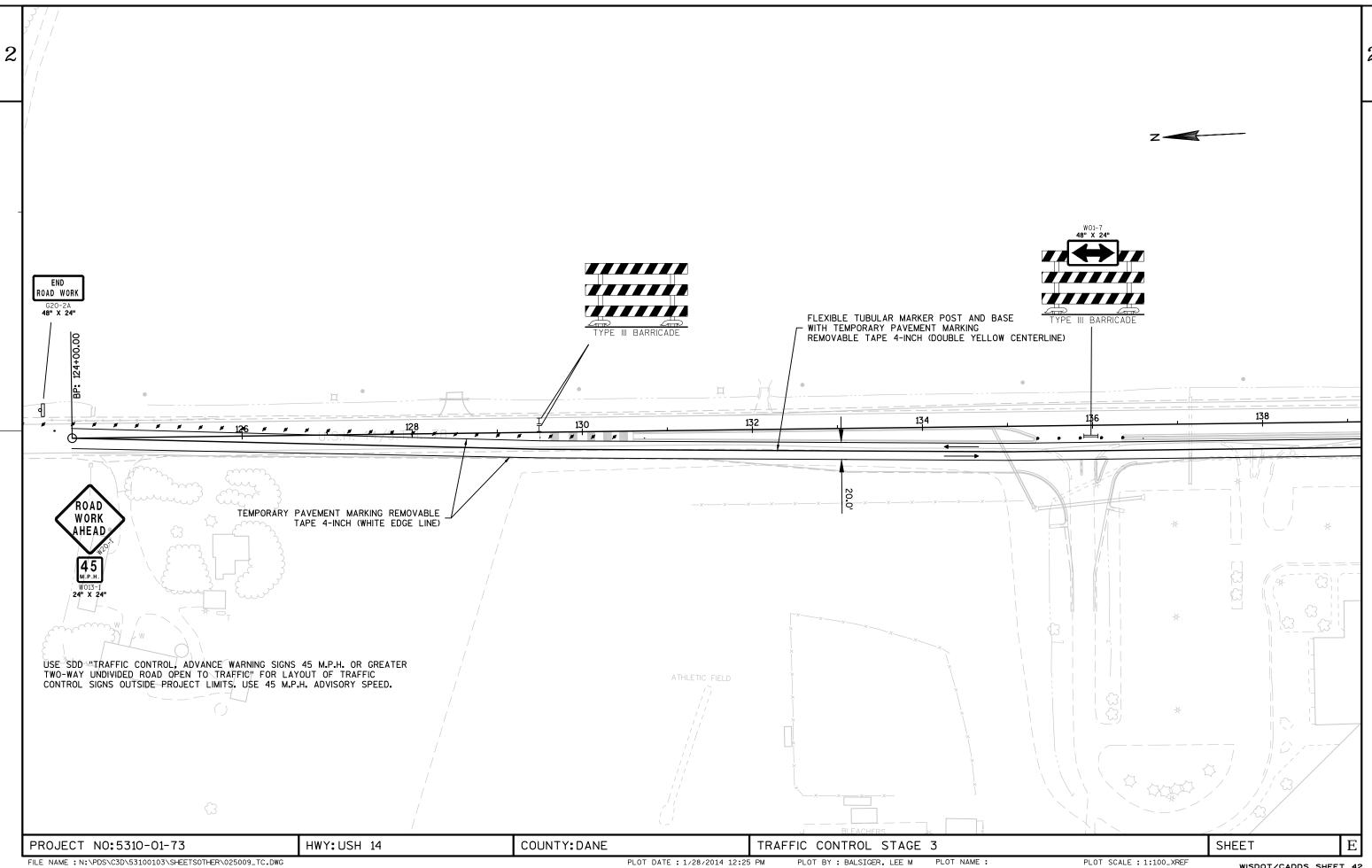


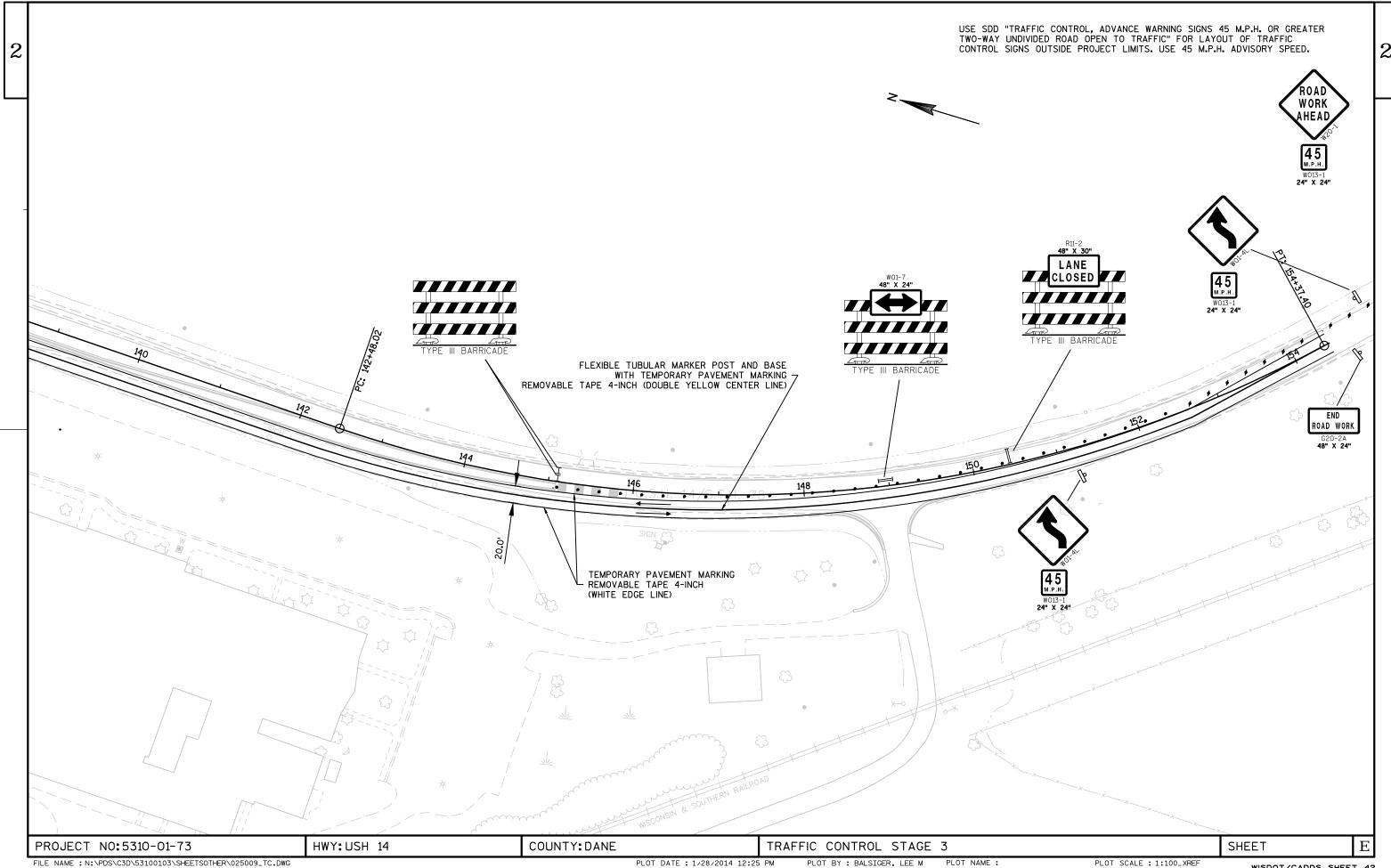




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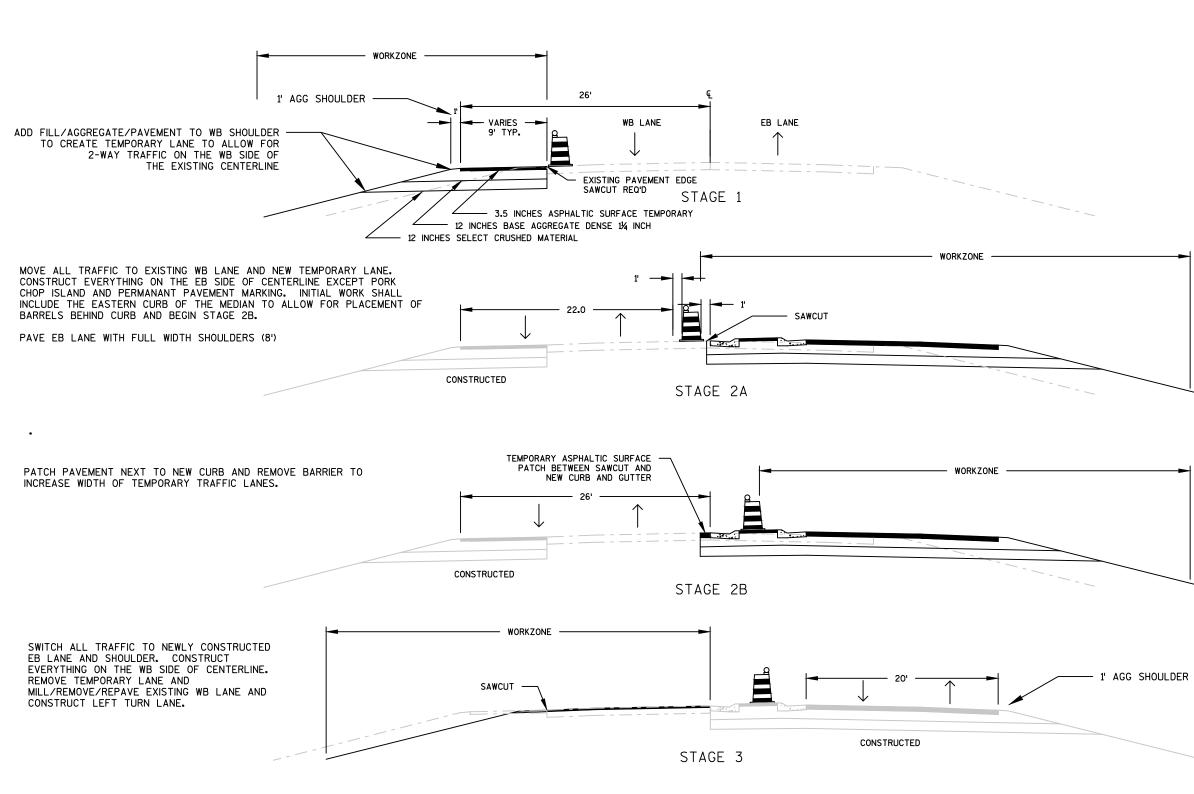


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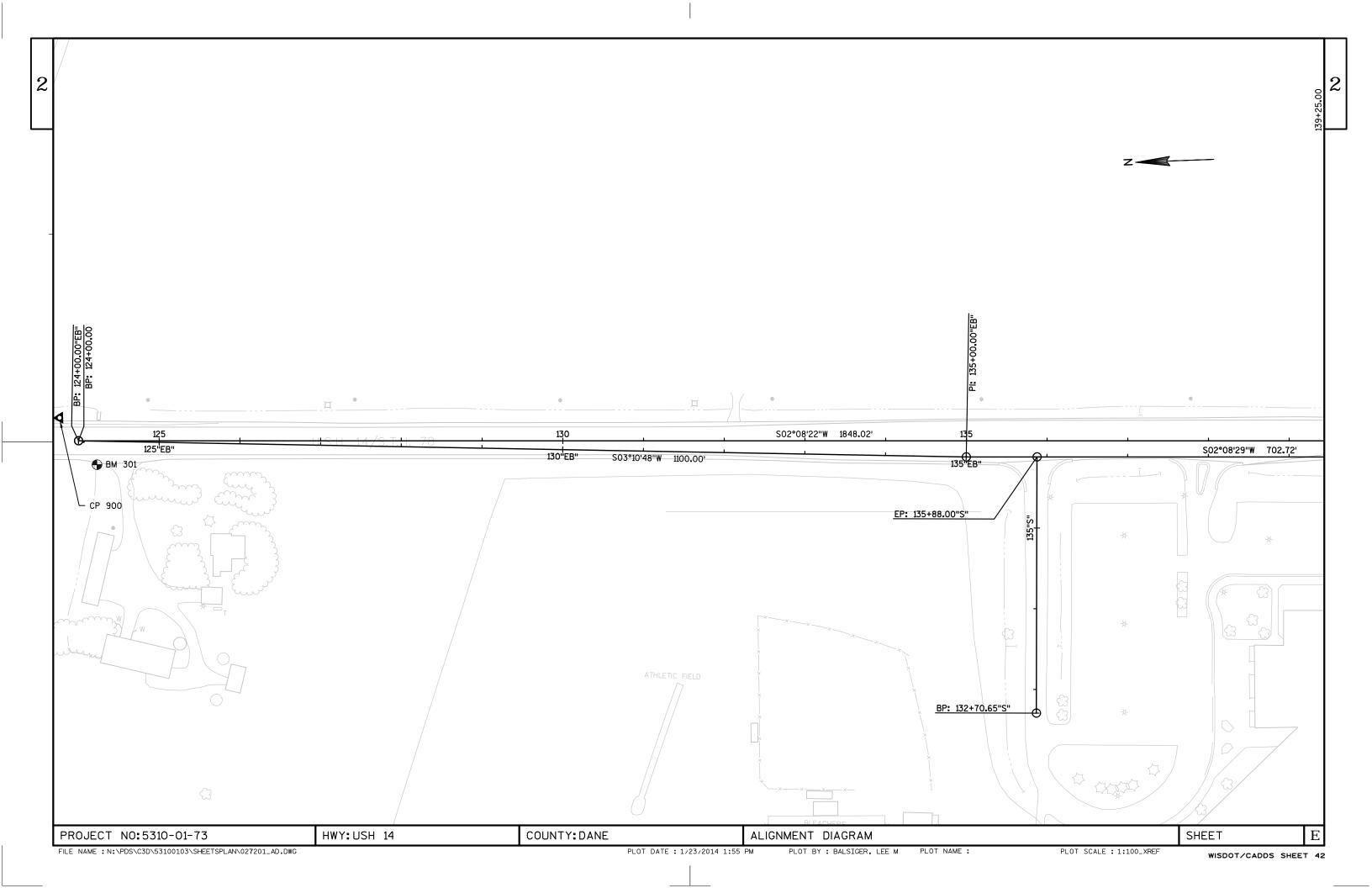
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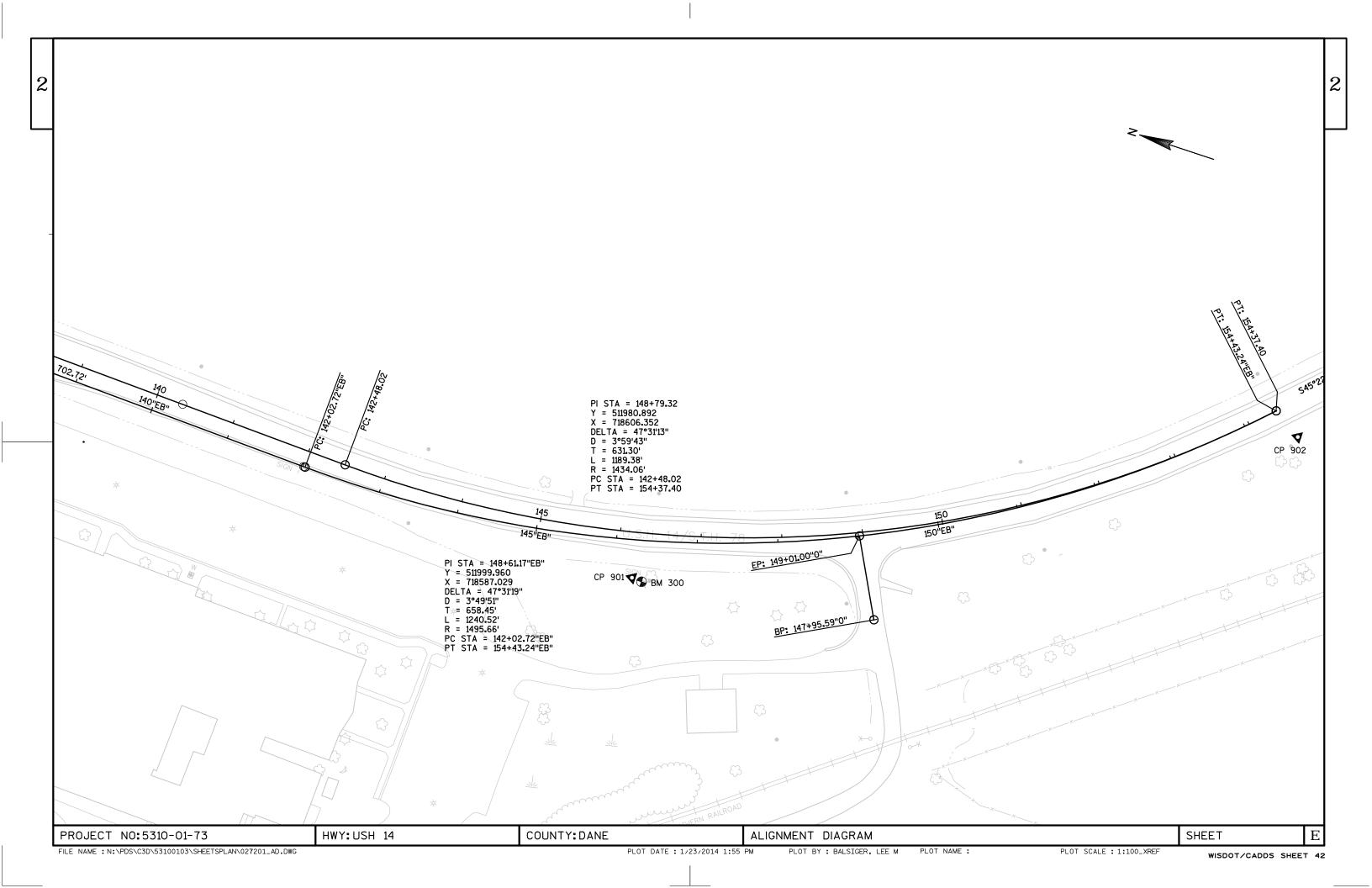
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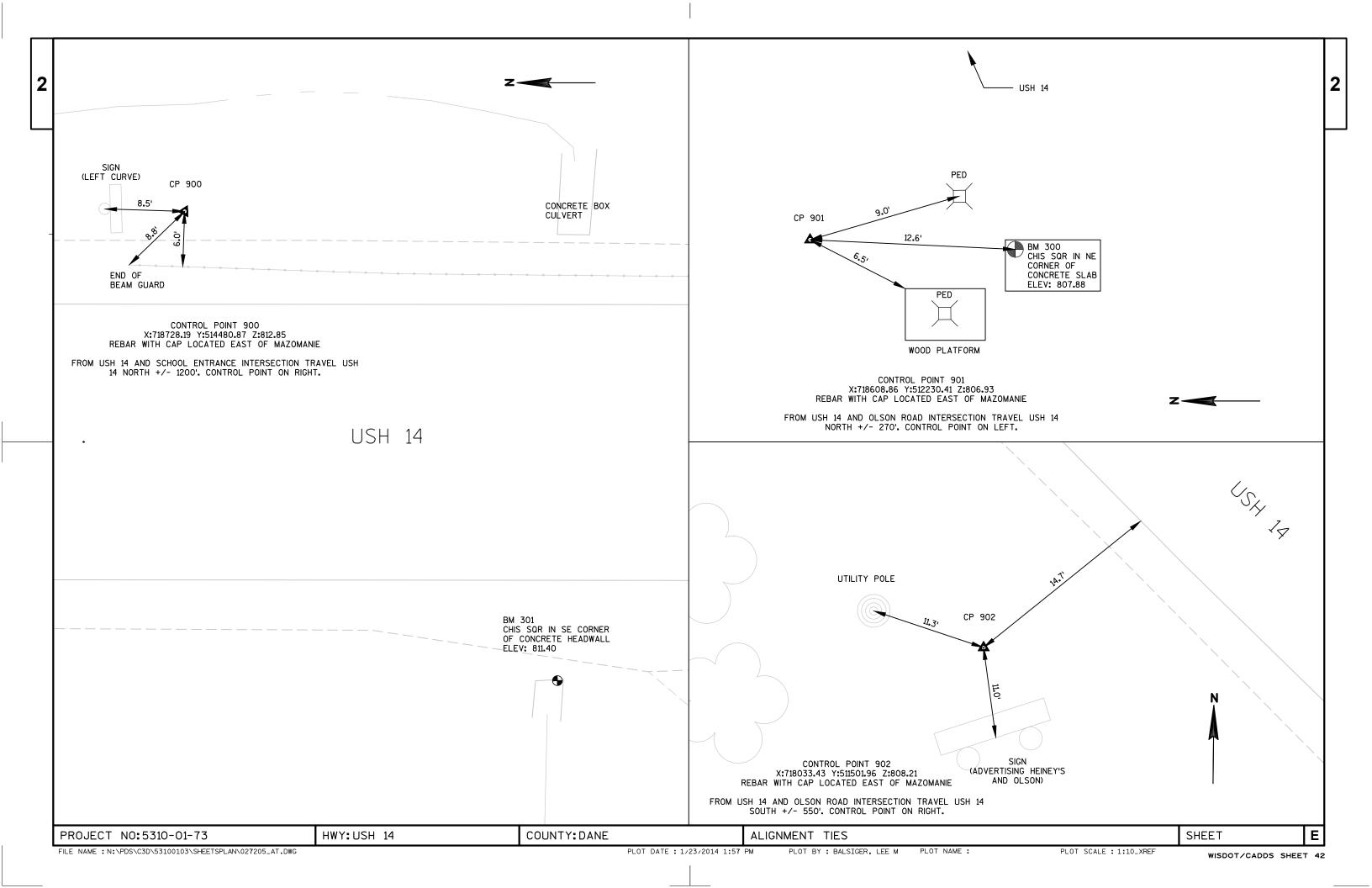




PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE CONSTRUCTION STAGES SHEET







DATE 03 LINE	BMAR14	E S	TIMAT	E OF QUAN	T I T I E S 5310-01-73
NUMBER		I TEM DESCRIPTION	UNIT	TOTAL	QUANTI TY
0010 0020	203. 0100 204. 0110	REMOVING SMALL PIPE CULVERTS REMOVING ASPHALTIC SURFACE	EACH SY	3. 000 5, 975. 000	3. 000 5, 975. 000
0030	204. 0110	REMOVING ASPHALTIC SURFACE MILLING	SY	10, 300. 000	10, 300. 000
0040	204. 0150	REMOVING CURB & GUTTER	LF	399.000	399. 000
0050	205. 0100	EXCAVATION COMMON	CY	8, 896. 000	8, 896. 000
0060 0070	208. 0100 213. 0100	BORROW FINISHING ROADWAY (PROJECT) 01.	CY EACH	1, 740. 000 1. 000	1, 740. 000 1. 000
0800	305. 0110	5310-01-73 BASE AGGREGATE DENSE 3/4-INCH	TON	600.000	600. 000
0090	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	8, 090. 000	8, 090. 000
0100	312. 0110	SELECT CRUSHED MATERIAL	TON	8, 420. 000	8, 420. 000
0110		S ROUT AND SEAL	LF	3, 230. 000	3, 230. 000
0120	455. 0105 455. 0605	ASPHALTIC MATERIAL PG58-28 TACK COAT	TON GAL	183. 000 540. 000	183. 000 540. 000
0130 0140	460. 1103	HMA PAVEMENT TYPE E-3	TON	3, 540. 000	3, 540. 000
0150	460. 2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	1, 990. 000	1, 990. 000
0160	465. 0125	ASPHALTIC SURFACE TEMPORARY	TON	410.000	410.000
0170 0180	465. 0305 465. 0315	ASPHALTIC SURFACE SAFETY ISLANDS ASPHALTIC FLUMES	TON SY	175. 000 20. 000	175. 000 20. 000
0190	520. 8000	CONCRETE COLLARS FOR PIPE	EACH	2. 000	2. 000
0200	521. 0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	32. 000	32. 000
0210	521. 0142	CULVERT PIPE CORRUGATED STEEL 42-INCH	LF	120. 000	120.000
0220	521. 0342	APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 42-INCH 4 TO 1	EACH	2. 000	2. 000
0230	521. 1518	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1	EACH	2. 000	2.000
0240	522. 0136	CULVERT PIPE REINFORCED CONCRETE CLASS	LF	42. 000	42.000
0250	522. 1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	1.000	1. 000
00/0	E00 400'		FAGU		
0260	522. 1036	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	EACH	2. 000	2. 000
0270	601. 0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	LF	2, 700. 000	2, 700. 000
0280	601. 0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	LF	285. 000	285. 000
0290	601. 0576	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J	LF	65. 000	65.000
0300	603. 8000	CONCRETE BARRIER TEMPORARY PRECAST	LF	128. 000	128. 000
		DELI VERED			
0310	603. 8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	128. 000	128. 000
0320	608. 0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	97. 000	97. 000
0330	608. 0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	100.000	100.000
0340	608. 0336	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH	LF	740. 000	740. 000
0350	611. 0530	MANHOLE COVERS TYPE J	EACH	3. 000	3. 000
0360	611. 0627	INLET COVERS TYPE HM	EACH	6. 000	6. 000
0370	611. 2005	MANHOLES 5-FT DIAMETER	EACH	3. 000	3. 000
0380	611. 3230	INLETS 2X3-FT	EACH	6. 000	6. 000
0390 0400	611. 8120. \$ 614. 0905	S COVER PLATES TEMPORARY CRASH CUSHIONS TEMPORARY	EACH EACH	3. 000 1. 000	3. 000 1. 000
0410	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 5310-01-73	EACH	1. 000	1. 000
		(1.100201) 01. 0010 01-10			

				E040 04 =0
R ITEM	I TEM DESCRIPTION	UNI T	TOTAL	5310-01-73 QUANTI TY
619. 1000	MOBI LI ZATI ON	EACH	1.000	1. 000
620. 0100	CONCRETE CORRUGATED MEDIAN	SF	2, 161. 000	2, 161. 000
624. 0100 625. 0500	WATER SALVAGED TOPSOLI	MGAL SY	175. 000 17. 804. 000	175. 000 17, 804. 000
627. 0200	MULCHI NG	SY	17, 804. 000	17, 804. 000
				2, 800. 000 2, 800. 000
628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	9. 000	9. 000
628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3. 000	3. 000
628. 2004	EROSION MAT CLASS I TYPE B	SY	2,000.000	2, 000. 000
628. 7015	INLET PROTECTION TYPE C	EACH	7. 000	7. 000
628. 7504	TEMPORARY DITCH CHECKS	LF	150. 000	150.000
				12. 000 4. 000
020. 7300	TRACKING FADS	LACII	4.000	4.000
629. 0210	FERTILIZER TYPE B	CWT	11.000	11.000
				299. 000 103. 000
				103. 000 454. 000
630. 0300	SEEDING BORROW PIT	LB	60. 000	60. 000
422 E100	MADVEDS DOW	EACH	10,000	10,000
				10. 000 2. 000
634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	9. 000	9. 000
634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	13. 000	13.000
637. 2210	SIGNS TYPE II REFLECTIVE H	SF	128. 000	128. 000
637. 2230	SIGNS TYPE II REFLECTIVE F	SF	59. 000	59. 000
638. 2102	MOVING SIGNS TYPE II	EACH	10.000	10.000
638. 2602	REMOVING SIGNS TYPE II	EACH	17. 000	17. 000
642. 5201	FIELD OFFICE TYPE C	EACH	13.000	13. 000 1. 000
	, ,			1. 000 5, 900. 000
				5, 900. 000 35. 000
643. 0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	EACH	60. 000	60.000
	POSTS	FACU	/0.000	
643.0600		EACH	60.000	60. 000
				1, 920. 000 1, 634. 000
646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	15, 040. 000	15, 040. 000
646. 0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1, 070. 000	1, 070. 000
647. 0456	PAVEMENT MARKING CURB EPOXY	LF	90. 000	90. 000
647. 0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	110.000	110. 000
647. 0856	PAVEMENT MARKING CONCRETE CORRUGATED	SF	1, 280. 000	1, 280. 000
640 0100	MEDIAN EPOXY	1.5	12 000 000	12 000 000
				12, 800. 000 12, 800. 000
517.0400	TAPE 4-INCH		12,000.000	.2,000.000
650. 4000	CONSTRUCTION STAKING STORM SEWER	EACH	12. 000	12. 000
650, 4500	CONSTRUCTION STAKING SUBGRADE		6,000,000	6, 000. 000
650. 5000	CONSTRUCTION STAKING SOBORABE	LF	6, 250. 000	6, 250. 000
650. 5500	CONSTRUCTION STAKING CURB GUTTER AND	LF	3, 060. 000	3, 060. 000
650 6000		FΔCH	3 000	3. 000
650. 8000	CONSTRUCTION STAKING PIPE COLVERTS  CONSTRUCTION STAKING RESURFACING	LF	3, 100, 000	3, 100. 000
	REFERENCE		,	
	625. 0500 627. 0200 628. 1504 628. 1504 628. 1520 628. 1910 628. 2004 628. 7015 628. 7555 628. 7560 629. 0210 630. 0120 630. 0120 630. 0140 630. 0200 630. 0300 633. 5100 633. 5200 634. 0614 634. 0616 637. 2210 637. 2230 638. 2102 638. 2602 638. 3000 642. 5201 643. 0100 643. 0300 643. 0420 643. 0500 643. 0715 643. 0900 643. 0706 646. 0106 646. 0126 647. 0726 647. 0726 647. 0726 647. 0856 649. 0100 650. 4500 650. 5000 650. 5000 650. 5000	625. 0500 SALVAGED TOPSOIL  627. 0200 MULCHING 628. 1504 SILT FENCE 628. 1520 SILT FENCE MAINTENANCE 628. 1905 MOBILIZATIONS EROSION CONTROL 628. 1910 MOBILIZATIONS EMERGENCY EROSION CONTROL 628. 1910 MOBILIZATIONS EMERGENCY EROSION CONTROL 628. 2004 EROSION MAT CLASS I TYPE B 628. 7015 INLET PROTECTION TYPE C 628. 7504 TEMPORARY DITCH CHECKS 628. 7555 CULVERT PIPE CHECKS 628. 7560 TRACKING PADS  629. 0210 FERTILIZER TYPE B 630. 0120 SEEDING MIXTURE NO. 20 630. 0140 SEEDING MIXTURE NO. 40 630. 0200 SEEDING TEMPORARY 630. 0300 SEEDING TEMPORARY 633. 5200 MARKERS ROW 633. 5200 MARKERS CULVERT END 634. 0614 POSTS WOOD 4X6-1NCH X 14-FT 637. 2210 SIGNS TYPE II REFLECTIVE H  637. 2230 SIGNS TYPE II REFLECTIVE F 638. 2102 MOVING SIGNS TYPE II 638. 3000 REMOVING SIGNS TYPE II 638. 3000 REMOVING SIGNS TYPE II 638. 3000 REMOVING SIGNS TYPE I 638. 3000 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 78AFFIC CONTROL BARRICADES TYPE III 643. 0500 TRAFFIC CONTROL BARRICADES TYPE III 643. 0600 TRAFFIC CONTROL BARRICADES TYPE III 643. 0900 TRAFFIC CONTROL BARRICADES TYPE III 643. 0900 TRAFFIC CONTROL BARRICADES TYPE III 643. 0900 TRAFFIC CONTROL BARRICADES TYPE III 644. 095TS 645. 0900 TRAFFIC CONTROL BARRICADES TYPE III 647. 0456 PAVEMENT MARKING EPOXY 4-INCH 647. 0456 PAVEMENT MARKING EPOXY 4-INCH 648. 0106 PAVEMENT MARKING EPOXY 4-INCH 649. 0400 TEMPORARY PAVEMENT MARKING A-INCH 649. 0400 TEMPORARY PAVEMENT MARKING A-INCH 649. 0400 TEMPORARY PAVEMENT MARKING A-INCH 650. 4000 CONSTRUCTION STAKING SUBGRADE 650. 5500 CONSTRUCTION STAKING SUBGRADE 650. 650. 6500 CONSTRUCTION STAKING GURB GUTTER AND 650. 6000 CONSTRUCTION STAKING GURB GUTTER AND 650. 6500 CONSTRUCTION S	625.0500 SALVAGED TOPSOIL SY  627.0200 MULCHING 628.1504 SILT FENCE MAINTENANCE 628.1520 SILT FENCE MAINTENANCE 628.1520 SILT FENCE MAINTENANCE 628.1920 MOBILIZATIONS EROSION CONTROL 628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL 628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL 628.7015 INLET PROTECTION TYPE C 628.7051 INLET PROTECTION TYPE C 628.7504 TEMPORARY DITCH CHECKS 628.7505 CULVERT PIPE CHECKS 628.7505 CULVERT PIPE CHECKS 628.7506 TRACKING PADS 630.0120 SEEDING MIXTURE NO. 20 LB 630.0120 SEEDING MIXTURE NO. 40 LB 630.0100 SEEDING MIXTURE NO. 40 LB 630.0300 SEEDING SOROW PIT LB 633.5100 MARKERS ROW 633.5200 MARKERS CULVERT END EACH 633.5200 MARKERS CULVERT END EACH 634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH 634.0614 POSTS WOOD 4X6-INCH X 16-FT EACH 637.2210 SIGNS TYPE II REFLECTIVE H 538.2012 MOVING SIGNS TYPE II 638.2020 REMOVING SIGNS TYPE II 638.2020 REMOVING SIGNS TYPE II 638.2020 REMOVING SIGNS TYPE II 643.0300 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 644.5201 TRAFFIC CONTROL DRUMS 643.0420 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER EACH 645.043.0440 TRAFFIC CONTROL SIGNS 646.01046 PAVEMENT MARKING EPOXY 4-INCH LF 647.0456 PAVEMENT MARKING DIAGONAL EPOXY 648.0400 TEMPORARY PAVEMENT MARKING POXY 649.0100 TEMPORARY PAVEMENT MARKING POXY 649.0100 TEMPORARY PAVEMENT MARKING POXY 649.0100 TEMPORARY PAVEMENT MARKING POXY 649.0400 TEMPORARY PAVEMENT MARKING SUBGRADE 650.6000 CONSTRUCTION STAKING PIPE CULVERTS 650.6000 CONSTRUCTION STAKING PIPE CULVERT	625. 0500 SALVAGED TOPSOIL SY 17, 804. 000 627. 0200 MILCHING SY 17, 804. 000 628. 1504 SILT FENCE LF 2, 800. 000 628. 1505 SILT FENCE MAINTENANCE LF 2, 800. 000 628. 1905 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH 9, 000 628. 1905 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH 9, 000 628. 1906 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH 3. 000 628. 7015 INLET PROTECTION TYPE C EACH 7. 000 628. 7015 INLET PROTECTION TYPE C EACH 7. 000 628. 7555 CULVERT PIPE CHECKS LF 150. 000 628. 7555 CULVERT PIPE CHECKS EACH 12. 000 629. 0210 FERTILIZER TYPE B CWT 11. 000 630. 0140 SEEDING MIXTURE NO. 20 LB 299. 000 630. 0140 SEEDING MIXTURE NO. 40 LB 103. 000 630. 0140 SEEDING MIXTURE NO. 40 LB 103. 000 630. 0300 SEEDING BORROW PIT LB 454. 000 633. 5100 MARKERS ROW EACH 10. 000 633. 5200 MARKERS ROW EACH 10. 000 633. 5200 MARKERS ROW EACH 10. 000 634. 0614 POSTS WOOD 4X6-INCH X 14-FT EACH 9. 000 637. 2210 SIGNS TYPE II REFLECTIVE H SF 128. 000 638. 2012 SIGNS TYPE II REFLECTIVE H SF 128. 000 638. 2012 REMOVING SIGNS TYPE II EACH 17. 000 638. 2012 REMOVING SIGNS TYPE II EACH 17. 000 642. 5201 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 EACH 1. 000 643. 0300 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 EACH 1. 000 643. 0300 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 EACH 1. 000 643. 0300 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 EACH 1. 000 643. 0300 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 EACH 1. 000 644. 0300 TRAFFIC CONTROL (PROJECT) 01. 5310-01-73 EACH 1. 000 643. 0300 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER EACH 60. 000 640. 0300 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER EACH 60. 000 640. 0300 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER EACH 60. 000 640. 0300 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER EACH 60. 000 640. 0300 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER EACH 60. 000 640. 0300 CONSTRUCTION STAKING CURB GUTTER AND LF 12, 800. 000 640. 0400 TEMPORARY PAVEMENT MARKING CHANCY LF 12-INCH LF 12, 800. 000 641. 0760 PAVEMENT MARKING CONCRETE CORRUGATED SF 1, 280. 000 643. 0000 CONSTRUCTION STAKING CURB GUTTER AND LF 2, 800. 000 650. 0000

DATE 03	MAR14		ESTIMATE OF QUANTITIES				
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	5310-01-73 QUANTI TY		
0910	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5310-01-73	LS	1. 000	1.000		
0920	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	6,000.000	6, 000. 000		
0930	690. 0150	SAWING ASPHALT	LF	4, 755. 000	4, 755. 000		
0940	690. 0250	SAWING CONCRETE	LF	6.000	6.000		

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# REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION TO	STATI ON	LOCATI ON	203. 0100 EACH	REMARKS
0010 0010 0010	132+00 136+00 138+00		LT RT RT	1 1 1	FI ELD ENTRANCE 18" CMCP EXISTING SCHOOL ENTRANCE 42" CMCP EXISTING SCHOOL EXIT 24" RCCP
			TOTAL 0010	3	

# ASPHALT REMOVALS

				REMOVI NG ASPHALTI C SURFACE 204. 0110	ASPHALTI C SURFACE MI LLI NG 204. 0120	
CATEGORY	STATI ON TO	STATI ON	LOCATI ON	SY	SY	REMARKS
0010	129+00 -	149+50	RT	5, 000	-	STAGE 2 - MAINLINE
0010	124+00 -	154+37	MAI NLI NE	-	10, 100	STAGES 2 & 3 - MAINLINE
0010	134+00 "S" -	135+80 "S"	SI DE ROAD	600	_	SCHOOL ENTRANCE
0010	138+00		RT	375	-	SCHOOL EXIT
0010	148+32.5 "0" -	148+75 "0"	SI DE ROAD	-	200	OLSON ROAD
			TOTAL 0010	5, 975	10, 300	

REMOVI NG

# REMOVING CURB & GUTTER

					204. 0150	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF	REMARKS
0010	135+41 EB	-	135+75 EB	RT	52	SCHOOL ENTRANCE
0010	136+01 EB	-	136+31 EB	RT	45	SCHOOL ENTRANCE
0010	137+51 EB	-	137+74 EB	RT	36	SCHOOL EXIT
0010	137+83 EB	-	138+01 EB	RT	84	SCHOOL EXIT ISLAND
0010	138+08 EB	-	138+43 EB	RT	50	SCHOOL EXIT
0010	148+42 EB	-	148+90 EB	RT	82	OLSON ROAD
0010	149+19 EB	-	149+50 EB	RT	50	OLSON ROAD
				TOTAL 0010	399	

# EXCAVATION COMMON

					205. 0100	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	CY	REMARKS
0010	125+91	-	154+03	LT	1, 466	STAGE 1 - TEMPORARY LANE
0010	124+00	-	154+37.40	RT	5, 328	STAGE 2 - MAINLINE
0010	134+00"S"	-	135+80"S"	SI DE ROAD	201	SCHOOL ENTRANCE
0010	125+91	-	154+03	LT	1, 901	STAGE 3 - TEMPORARY LANE REMOVAL
				TOTAL 0010	8, 896	

PROJECT NO: 5310-01-73 HWY: USH 14 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E** 

**BORROW** 

208. 0100 LOCATI ON CATEGORY STATION TO STATION CY REMARKS RT 1, 212 STAGE 2 - MAINLINE 127+00 - 154+38 0010 0010 134+00 "S" - 135+80 "S" SIDE ROAD 528 SCHOOL ENTRANCE 1, 740 TOTAL 0010

# BASE AGGREGATE

CATEGORY	STATI ON	TO_	STATI ON	LOCATI ON	BASE AGGREGATE DENSE 3/4 I NCH 305. 0110 TON	BASE AGGREGATE DENSE 1-1/4 I NCH 305. 0120 TON	SELECT CRUSHED MATERI AL 312. 0110 TON	MAI NTENANCE AND REPAIR OF HAUL ROADS 618. 0100 EACH	WATER 624. 0100 MGAL	REMARKS
0010	124+00	-	154+37	RT	220	6, 300	6, 200	-	100	STAGE 2 - MAINLINE
0010	125+91	-	154+03	LT	120	1, 650	2, 220	-	65	STAGE 1 - TEMPORARY LANE
0010	134+00 "S"	-	135+80 "S"	SI DE ROAD	40	140	-	-	10	SCHOOL ENTRANCE
0010	124+00	-	154+37	LT	220	-	-	-	-	STAGE 3
0010				PROJECT	-	-	-	1	-	
				TOTAL 0010	600	8, 090	8, 420	1	175	

# ASPHALT PAVING

								ASPHALTI C	
				ASPHALTI C		HMA	ASPHALTI C	SURFACE	
				MATERI AL		PAVEMENT	SURFACE	SAFETY	
				PG58-28	TACK COAT	TYPE E-3	TEMPORARY	I SLANDS	
				455. 0105	455. 0605	460. 1103	465. 0125	465. 0305	
CATEGORY	STATI ON TO	STATI ON	LOCATI ON	TON	GAL	TON	TON	TON	REMARKS
0010	124+00 -	154+37	RT	120	510	2, 300	-	-	STAGE 2 - MAINLINE OVER NEW BAS
0010	124+00 -	154+37	MAI NLI NE	50	-	1, 000	-	-	MAINLINE OVER MILLED
0010	134+00 "S" -	135+80 "S"	SI DE ROAD	10	30	180	-	-	SCHOOL ENTRANCE
0010	148+32.5 "0 -	148+75 "0"	SI DE ROAD	3	-	60	-	-	OLSON ROAD
0010	125+91 -	154+03	LT	_	_	-	380	-	STAGE 1 - WB TEMPORARY LANE
0010	129+50 -	145+92	LT	_	-	-	30	-	STAGE 2 PATCHING
0010	130+60 -	135+30	RT	_	-	-	-	75	NORTH MEDIAN
0010	136+38 -	145+09	RT	-	-	-	-	100	SOUTH MEDIAN
			TOTAL 0010	183	540	3, 540	410	175	

PROJECT NO: 5310-01-73 HWY	VY: USH 14	COUNTY: DANE	MISCELLANEOUS QUANTITIES	SHEET:	E
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# **DRAI NAGE**

				CULVERT PI PE	CULVERT PI PE	APRON ENDWALLS FOR CULVERT PIPE	APRON ENDWALLS FOR CULVERT PIPE	CULVERT PI PE REI NFORCED		
			CONCRETE	CORRUGATED	CORRUGATED	SLOPED CROSS	SLOPED SIDE	CONCRETE	MARKERS	
			COLLARS	STEEL	STEEL	DRAINS STEEL	DRAINS STEEL	CLASS III	CULVERT	
			FOR PIPE	18- I NCH	42- I NCH	42-INCH 4 TO 1	18-INCH 6 TO 1	36- I NCH	END	
			520. 8000	521. 0118	521. 0142	521. 0342	521. 1518	522. 0136	633. 5200	
CATEGORY	STATI ON	LOCATI ON	EACH	LF	LF	EACH	EACH	LF	EACH	REMARKS
0010	137+14	RT	1	-	-	-	-	36	1	36" RCCP EXTENSION
0010	137+14	LT	1	-	-	-	-	6	1	36" TEMP EXTENSION
0010	128+50	LT	-	32	-	-	2	-	-	FIELD ENTRANCE
0010	135+15"S"	SI DE ROAD	-	-	120	2	-	-	-	SCHOOL ENTRANCE
		TOTAL 0040								
		TOTAL 0010	2	32	120	2	2	42	2	

MINIMUM THICKNESS OF									
CORRUGATED STEEL CULVERT									
PIPES									
DIA (IN)	18	42							
THICKNESS (IN)	0.064	0.109							

# ASPHALTIC FLUMES

					465. 0315	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	SY	REMARKS
0010	133+90 "S"			LT	10	
0010	134+20 "S"			RT	10	
				TOTAL 0010	20	

# **CURB AND GUTTER**

_CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	CONCRETE CURB AND GUTTER 4- INCH SLOPED 36- INCH TYPE D 601. 0553 LF	CONCRETE CURB AND GUTTER 6- INCH SLOPED 36- INCH TYPE D 601. 0557 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J 601. 0576 LF	REMARKS
0010	100.00		105.05	DT	050		· · · · · · · · · · · · · · · · · · ·	MEDIAN
0010	130+60	-	135+35	RT	950	-	-	MEDI AN
0010	135+10	-	135+69	RT	-	90	-	SCHOOL ENTRANCE
0010	136+02	-	136+17	RT	-	-	65	SCHOOL ENTRANCE ISLAND
0010	136+17	-	136+51	RT	-	62	-	SCHOOL ENTRANCE
0010	136+34	-	145+09	RT	1, 750	-	-	MEDI AN
0010	148+30	_	148+86	RT	-	79	-	OLSON ROAD
0010	149+14	-	149+52	RT	-	54	-	OLSON ROAD
				TOTAL 0010	2, 700	285	65	

PROJECT NO: 5310-01-73 HWY: USH 14 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E** 

STORM SEWE
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CATEGORY	STATI ON TO	O STATI ON	LOCATI ON	APRON ENDWALLS FOR CULVERT PI PE REI NFORCED CONCRETE 24-I NCH 522. 1024 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH 522. 1036 EACH	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH 608. 0312 LF	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH 608. 0324 LF	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH 608. 0336 LF	MANHOLE COVERS TYPE J 611. 0530 EACH	I NLET COVERS TYPE HM 611. 0627 EACH	MANHOLES 5- FT DI AMETER 611. 2005 EACH	I NLETS 2X3 FT 611. 3230 EACH	COVER PLATES TEMPORARY 611. 8120. S EACH	REMARKS
0010	134+82		RT	1	-	-	100	-	-	1	-	1	-	
0010	137+25EB		RT	-	1	-	-	-	-	-	-	-	-	
0010	138+33EB		LT	-	_	23	-	-	-	1	-	1	-	
0010	138+35EB		RT	-	-	-	-	-	1	-	1	-	1	
0010	141+72EB		LT	-	-	18	-	-	-	1	-	1	-	
0010	141+73EB		RT	-	-	-	-	-	1	-	1	-	1	
0010	141+87EB		LT	-	-	24	-	-	-	1	-	1	-	
0010	143+72EB		LT	-	-	32	-	-	-	2	-	2	-	
0010	143+73EB		RT	-	-	-	-	-	1	-	1	-	1	
0010	137+25EB -	144+46EB	RT	-	-	-	-	740	-	-	-	-	-	
0010	144+46EB		RT	-	1	-	-	-	-	-	-	-	-	
			TOTAL 0010	1	2	97	100	740	3	6	3	6	3	

# SALVAGED TOPSOIL

					625. 0500	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	SY	REMARKS
0010	124+00	-	154+37	LT	7, 578	
0010	124+00	-	129+26	RT	603	
0010	129+26	-	135+70	RT	1, 845	
0010	136+00	-	148+80	RT	4, 900	
0010	149+20	-	154+45	RT	2, 878	
				TOTAL 0010	17. 804	

HWY: USH 14

PROJECT NO: 5310-01-73

# EROSION CONTROL

CATEGORY	STATI ON	то	STATI ON	LOCATI ON	SILT FENCE 628. 1504 LF	SI LT FENCE MAI NTENANCE 628. 1520 LF	MOBI LI ZATI ONS EROSI ON CONTROL 628. 1905 EACH	MOBI LI ZATI ONS EMERGENCY EROSI ON CONTROL 628. 1910 EACH	EROSI ON MAT CLASS I TYPE B 628. 2004 SY	I NLET PROTECTI ON TYPE C 628. 7015 EACH	TEMPORARY DI TCH CHECKS 628. 7504 LF	CULVERT PI PE CHECKS 628. 7555 EACH	REMARKS
0010	151+50	_	154+50	RT	300	300	-	-	-	-	-	-	
0010	124+50	-	135+00	LT	1, 100	1, 100	-	-	-	-	-	-	
0010				BORROW PIT	1, 000	1, 000	-	-	-	-	-	-	
0010	UNDI STRI BUTED			PROJECT	400	400	9	3	2, 000	7	150	12	
				TOTAL 0010	2, 800	2, 800	9	3	2, 000	7	150	12	

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

COUNTY: DANE

SI	GNI	NG	

Part						SI GN			POSTS WOOD 4X6-INCH X 14-FT 634. 0614	POSTS WOOD 4X6-INCH X 16-FT 634.0616	X REFLECTI VE H	SIGNS TYPE II REFLECTIVE F 637. 2230	MOVING SIGNS TYPE II 638. 2102	REMOVING SIGNS TYPE II 638. 2602	REMOVI NG SMALL SI GN SUPPORTS 638. 3000	
1965   196	CATEGORY	NO.	STATI ON	DI R	LOCATI ON		SIZE	DESCRI PTI ON	EACH	EACH	SF	SF	EACH	EACH	EACH	REMARKS
George   G									-	1	-		-	-	-	
100   101   102   103									-	1	-	9. 00	-	-	-	
Mathematical Property   Math									-	-	-		1	-	-	
Column   C									-	-	<del>-</del>	-	1	-	-	
Column   C	0010	105	120.25	ud	īT	CE 9	94" V 90"	END SCHOOL ZONE					1			MOVIE CLENI AND DOCTE
Gold   150-4   Fig. 127   To -6   IN Y TO -6   IN Y TO -7									-	1			-	-	-	MOVE SIGN AND POSIS
Column   1985   1986   1987									-	-			-	-	-	MOUNTED WITH SIGN 200 (4' MOUNTING HEIGHT)
Column   C						R5- 1	36" X 36"	DO NOT ENTER	-	1	9. 00		-	-	-	,
9019 9019 12010 12 10 12 1 12 1 1 1 1 1 1 1 1 1 1		203	131+06	EB	RT	R3-20R	24" X 36"	BEGIN RIGHT TURN LANE WITH DOWN LEFT ARROW	-	1	6. 00	-	-	-	-	
March   Marc	0010	204	121.00	ED	DT	D# 1A	26' V 24"	MDONG WAY			6.00					MOUNT ON PACK OF SIGN 202
March   126   126   12   12   13   14   15   14   15   14   15   15   15									-	-		-	-	- 1	- 1	
Column   C									-	_		-	_	1	1	
March   Marc									_	1			_	_	_	MOUNT ON DACK OF STON 207
Second   S									-	1			_	_	_	
Color   10   10   10   10   10   10   10   1							00	22		-	2. 30					
Column   State   Sta			135+15			R4-7	24" X 30"		1	-	5. 00	-	-	-	-	
001 003 135 135-55 WB FT 10-2.1 28' X 20' ONE WY 1ETH ARROW						-	-		-	-	-	-	-	1	1	
Control   Cont									-	-	-	-	-	1	1	
Signature   Sign									<del>-</del>	-		-	-	1	-	REMOVE ONLY, TWO SIGNS MOUNTED ON ONE POST
Second   S	0010	304	135+90	WB	LT	R6- 2- L	24" X 30"	ONE WAY LEFT ARROW	1	-	5. 00	-	-	-	-	
Sign   1986   1986   1987   1988   18   18   19   1987	0010	305	136+07	FR	RT	R1-1	30" X 30"	STOP	_	1	5 18	_	_	_	_	
0010 0070 156 25 29 EF F F 121 00 X 307 STOP 1 5.18									_	-		_	_	_	<u>-</u>	MOUNT BELOW SIGN 305
0010 988 139-39 18 8F F						-	-		-	-		-	-	1	1	
100   200   151-40   158   17   17   18   17   18   17   18   17   18   17   18   18						R1-1	30" X 30"		1	-	5. 18	-	-	-	-	
0010 3118 137-37 E8 FT 67 S 28 FT 67 S 29 S 20 D 50T EXTER 010 3128 137-62 E8 FT 67 S 28 S 20	0010	309	136+40	EB	RT	R4-7	24" X 30"	KEEP RI GHT	1	-	5. 00	-	-	-	-	
0010 3118 137-57 EB KI SO-1 90' X 90' D NOT EXTER	0010	310R	137+49	FB	RT	R6- 2- R	24" X 30"	ONE WAY RIGHT ARROW	_	_	_	_	_	1	1	REMOVE ONLY
0010 3128 137-52 FB RT									_	_	_	_	_	1	1	
0010 313R 137-95 28 RT R1-1 30 X 30" STOP 010 314R 137-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 137-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 137-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 400 1315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 400 1315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 400 1315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 400 1315R 138-95 28 RT R1-1 30 X 30" ONE WY LIGHT ARROW 010 400 141-96 78 RT R1									_	_	_	_	_	1	-	*
0010 315R 137-95 NB LT R3-2 38 X 38						R1-1	30" X 30"		-	-	-	-	-	1	1	
0010 3168 137-95 EB RT RE-2. L 24" X 30" ONE NWY LEFT ARROW	0010	314R	137+95	EB	RT	R6-2-R	24" X 30"	ONE WAY RIGHT ARROW	-	-	-	-	-	1	1	REMOVE ONLY, TWO SIGNS MOUNTED ON ONE POST
0010 316R 137-95 EB RT RD	0010	315R	137±95	WR	IТ	R3- 2	36" Y 36"	NO LEFT TURN SYMBOL	_	_	_	_	_	1	1	REMOVE ONLY
0010 3178 138-32 EB RT R1 30' X 30' STOP 1 1 REMOVE OILY 100' STOP									_	_	_	_	_	1	-	
0010 318R 138-33 EB KT									_	_	_	_	_	1	1	
0010 320 140-00 EB RT W1-2-L 30" X 30" LEFT CURVE 1 MAYE SIGN AND POSTS ONLY 4010 400 141-96 EB RT M1-94 54" X 15" CROSSROAD MANE [OLSON ROAD] 1 1 1 REDUVE ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY						-	-		-	-	-	=	-	1	-	REMOVE ONLY, TWO SIGNS MOUNTED ON ONE POST
0010 400R 141-96 EB RT NB-94 54" X 15" CROSSROAD NAME [01.50N ROAD] 1 1 REMIVE ONLY 0010 401 142-02 EB RT NB-2 36" X 36" DIVIDED HIGHWAY ENDS SYMBOL - 1 - 9,00	0010	319R	138+33	EB	RT	R5- 1	30" X 30"	DO NOT ENTER	-	-	-	-	-	1	1	REMOVE ONLY, TWO SIGNS MOUNTED ON ONE POST
0010 400R 141-96 EB RT MI-94 54" X 15" CROSSROAD NAME [0LSON ROAD] 1 1 REMOVE ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY	0010	200	140.00	ED	DT	Wa o I	20" V 20"	LEEF CUDVE								MOVIE CLON AND DOCTO
0010 401 142-02 BB KT W8-2 38 * X 36" DIVIDED HIGHWY ENDS SYMOL - 1 - 9.00 MOUNT ON BACK OF SIGN 401 0010 402 142-06 WB KT R5-1A 42 * X 30" WOWG WAY 8.75 MOUNT ON BACK OF SIGN 401 0010 403 142-06 WB KT R5-1A 42 * X 36" BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW 1 8.75 MOUNT ON BACK OF SIGN 401 0010 403 142-06 WB KT R5-1A 62 * X 15" DESTINATION [OLSON ROAD] [RA] 2 6.88 MOUNT ON BACK OF SIGN 401 0010 406 145-05 WB KT R5-1A 68 * X 18" MELAND WITH DEM PRINDIST 2.25 MOUNT ON BACK OF SIGN AND POSTS 0010 406 145-05 WB KT R5-1A 68 * X 18" CLEARANCE BURKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 407 145-05 WB KT R5-1B 68 * X 18" CLEARANCE BURKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 409 146-00 WB 145-07 WB KT R5-1B 36" X 36" BURKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 500 147-00 EB LIT SIGN 406 * AS 36" SCHOOL EXTRENCE 1 1 MOVE SIGN AND POSTS 0010 501 147-00 EB LIT SIGN 406 * AS 36" SCHOOL EXTRENCE 1 1 MOVE SIGN AND POSTS 0010 502 149-27 EB KT R1-1 - STOP									-	-	-		1	1	- 1	
0010 402 142-02 WB RT 83-14 42" X 30" WENGK WY 8.75									-	1			_	-	-	REMOVE ONEI
0010 403 142-06 WB RT R3-20L 24 "X 36" BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW 1 - 6.00									_	-			_	-	_	MOUNT ON BACK OF SIGN 401
0010 405 144-35 EB RT MIDLAND UNITED METHODIST 1 12.00 MOVE SIGN AND POSTS 0010 406 145-95 WB RT R4-7 36" X 48" KEEP RIGHT - 1 12.00 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 407 145-95 WB RT R5-540 18" X 18" CLEARANCE MARKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 408 145-07 WB RT R5-1 36" X 36" DO NOT ENTER - 1 9.00 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 409 146-00 WB RT S5-2 24" X 30" END SCHOOL ZONE 1 1 MOVE SIGN AND POSTS 0010 500 147-00 EB LT S54-61 36" X 36" SCHOOL ENTERNCE 1 1 MOVE SIGN AND POSTS 0010 501 147-00 EB LT S13-1 24" X 24" ADVISORY SPEED PLATE 1 MOVE SIGN AND POSTS 0010 502 149-27 EB RT R1-1 - STOP 1 MOVE SIGN AND POSTS 0010 600R 154-50 WB LT MI-9 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 MOVE SIGN AND POSTS 0010 600 155-00 EB RT W6-3 36" X 36" TWO-WAY TRAFFIC SYMBOL - 1 9,000									1	-			-	-	-	
0010 405 144-95 EB RT MIDLAND UNITED METHODIST 1 1 2.00 1 MOVE SIGN AND POSTS 0010 406 145-05 WB RT R4-7 36" X 48" KEEP RIGHT - 1 12.00 MOVINITED METHODIST 2.25 MOVINITED METHODIST 2.25 MOVINITED METHODIST 2.25 MOVINITED METHODIST 2.25 MOVINITED METHODIST METHODIST 2.25 MOVINITED METHODIST METHODIST 2.25 MOVINITED METHODIST METHODIST 2.25 MOVINITED METHODIST MET			:		<b>7</b>	<b>.</b>			_							
0010 406 145-05 WB RT R4-7 36" X 48" KEEP RIGHT - 1 12.00 2.25 MOUNTED WITH SIGN 406 (4' MOUNTING HEIGHT) 0010 407 145-05 WB RT W5-54D 18" X 18" CLEARANCE MARKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4' MOUNTING HEIGHT) 0010 408 145-07 WB RT R5-1 36" X 36" CLEARANCE MARKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4' MOUNTING HEIGHT) 0010 408 146-00 WB RT S5-2 24" X 30" END SCHOOL ZONE 1 1 MOVE SIGN AND POSTS 0010 500 147-00 EB LT S54-61 36" X 36" SCHOOL ENTRANCE 1 1 MOVE SIGN AND POSTS 0010 501 147-00 EB LT S13-1 24" X 24" ADVISORY SPEED PLATE 1 1 MOVE SIGN AND POSTS 0010 502 149-27 EB RT R1-1 - STOP O010 600 154-50 WB LT M1-94 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 MOVE SIGN AND POSTS 0010 602 155-00 EB RT W6-1 36" X 36" TWO-WAY TRAFFIC SYMBOL - 1 1 - 9.00									2	-		-	-	-	-	
0010 407 145+05 WB RT W5-54D 18" X 18" CLEARANCE MARKER WITH YELLOW TYPE F SHEETING 2.25 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 408 145+07 WB RT R5-1 36" X 36" DO NOT ENTER - 1 9.00 MOUNTED WITH SIGN 406 (4" MOUNTING HEIGHT) 0010 409 146+00 WB RT S5-2 24" X 30" END SCHOOL ZONE 1 MOVE SIGN AND POSTS 0010 500 147+00 EB LT S54-61 36" X 36" SCHOOL ENTRANCE 1 MOVE SIGN AND POSTS 0010 501 147+00 EB LT S13-1 24" X 24" ADVISORY SPEED PLATE 1 MOVE SIGN AND POSTS 0010 502 149+27 EB RT R1-1 - STOP 1 MOVE SIGN AND POSTS 0010 600R 154+50 WB LT M1-94 54" X 15" CROSSROAD NAME [0LSON ROAD] 1 1 MOVE SIGN AND POSTS 0010 600R 154+65 WB LT M1-94 54" X 15" DESTINATION [LA] [OLSON ROAD] 2 6.88 1 1 1 MOVE SIGN AND POSTS 0010 602 155+00 EB RT W6-3 36" X 36" DIVIDED HIGHWAY AHEAD SYMBOL - 1 - 9.00									-	-			1	-	-	MOVE SIGN AND POSTS
0010 408 145+07 WB RT R5-1 36" X 36" DO NOT ENTER - 1 9.00									- !	1			-	-	-	MOUNTED WITH SICN AGE (A) MOUNTEING HELGER
0010 409 146+00 WB RT S5-2 24" X 30" END SCHOOL ZONE 1 MOVE SIGN AND POSTS 0010 500 147+00 EB LT S54-61 36" X 36" SCHOOL ENTRANCE 1 1 MOVE SIGN AND POSTS 0010 501 147+00 EB LT S13-1 24" X 24" ADVISORY SPEED PLATE 1 1 MOVE SIGN AND POSTS 0010 502 149+27 EB RT R1-1 - STOP 1 1 MOVE SIGN AND POSTS 0010 600R 154+50 WB LT M1-94 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 1 MOVE SIGN AND POSTS 0010 602 155+00 EB RT W6-3 36" X 36" TWO-WAY TRAFFIC SYMBOL - 1 - 9,00									- -				-	-	-	MOUNTED WITH SIGN 400 (4 MOUNTING HEIGHI)
0010 500 147+00 EB LT S54-61 36" X 36" SCHOOL ENTRANCE 1 MOVE SIGN AND POSTS 0010 501 147+00 EB LT S13-1 24" X 24" ADVISORY SPEED PLATE 1 MOVE SIGN AND POSTS 0010 502 149+27 EB RT R1-1 - STOP 1 1 MOVE SIGN AND POSTS 0010 600R 154+50 WB LT MI-94 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 MOVE SIGN AND POSTS 0010 601 154+65 WB LT D1-1 66" X 15" DESTINATION [LA] [OLSON ROAD] 2 - 6.88		-		-												
0010 501 147+00 EB LT S13-1 24" X 24" ADVISORY SPEED PLATE 1 MOUNTED WITH SIGN 500 MOVE SIGN AND POSTS O010 502 149+27 EB RT R1-1 - STOP 1 1 MOVE SIGN AND POSTS O010 600R 154+50 WB LT MI-94 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 1 1 MOVE SIGN AND POSTS O010 601 154+65 WB LT D1-1 66" X 15" DESTINATION [LA] [OLSON ROAD] 2 6.88									-	-	-	-	1	-	-	
0010 502 149+27 EB RT R1-1 - STOP 1 1 1 MOVE SIGN AND POSTS 0010 600R 154+50 WB LT M1-94 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 1  0010 601 154+65 WB LT D1-1 66" X 15" DESTINATION [LA] [OLSON ROAD] 2 6.88									-	-	-	-	1	-	-	
0010 600R 154+50 WB LT MI-94 54" X 15" CROSSROAD NAME [OLSON ROAD] 1 1 1  0010 601 154+65 WB LT DI-1 66" X 15" DESTINATION [LA] [OLSON ROAD] 2 - 6.88									-	-	-	-	1	-	-	
0010 601 154+65 WB LT D1-1 66" X 15" DESTINATION [LA] [OLSON ROAD] 2 - 6.88									-	-	- -	-	1 -	1		MUVE SIGN AND PUSIS
0010 602 155+00 EB RT W6-3 36" X 36" TWO-WAY TRAFFIC SYMBOL - 1 - 9.00	0010	JJON	101100	W	LI	34	J1 A 10	CHOOSENGED HERE [OLDON ROLD]		•				1	•	
0010 603 157+00 WB LT W6-1 36" X 36" DIVIDED HIGHWAY AHEAD SYMBOL - 1 - 9.00  TOTAL 0010 9 13 128 59 10 17 13		601	154+65	WB	LT			DESTINATION [LA] [OLSON ROAD]	2	-	6. 88	-	-	-	-	
TOTAL 0010 9 13 128 59 10 17 13									-	1	-		-	-	-	
	0010	603	157+00	WB	LT	W6- 1	36" X 36"	DI VI DED HI GHWAY AHEAD SYMBOL	-	1	-	9. 00	-	-	-	
				7	TOTAL 0010				9	13	128	59	10	17	13	
	 	_						T		<u> </u>						T .

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PLOT SCALE: 1:1

# DIATE DE NO. 444

REMARKS

TRACKING PADS						
	000 7500		CATEGOR	Y STATION	TO STATION	LOCATI ON
	628. 7560					
LOCATI ON	EACH	REMARKS	0010	126+50		RT
			0010	120-30		IV I

 CATEGORY
 STATI ON
 TO
 STATI ON
 LOCATI ON
 EACH
 REMARKS
 0010

 0010
 UNDI STRI BUTED
 PROJECT
 4
 0010

 0010
 TOTAL 0010
 4
 0010

RTPLAT PT NO. 114 127+00 RT PLAT PT NO. 113 RT PLAT PT NO. 112 131+00 RTPLAT PT NO. 111 133+00 RT PLAT PT NO. 110 134+65 0010 135+00 RT PLAT PT NO. 109 PLAT PT NO. 108 0010 138+00 RT PLAT PT NO. 107 0010 138+35 RT PLAT PT NO. 105 0010 144+51. 21 RT 0010 145+37. 7 RT PLAT PT NO. 103

TOTAL 0010

MARKERS ROW

633. 5100

**EACH** 

# TRAFFIC CONTROL

CATEGORY	STATI ON TO	STATI ON	LOCATI ON	STAGE	TRAFFI C CONTROL DRUMS 643. 0300 DAY	TRAFFI C CONTROL BARRI CADES TYPE III 643. 0420 DAY	TRAFFI C CONTROL FLEXI BLE TUBULAR MARKER POSTS 643. 0500 EACH	TRAFFI C CONTROL FLEXI BLE TUBULAR MARKER BASES 643. 0600 EACH	TRAFFI C CONTROL WARNI NG LI GHTS TYPE C 643. 0715 DAY	TRAFFI C CONTROL SI GNS 643. 0900 DAY	TEMPORARY PAVEMENT MARKI NG 4-I NCH 649. 0100 LF	TEMPORARY PAVEMENT MARKI NG REMOVABLE TAPE 4- I NCH 649. 0400 LF	REMARKS
CHILDONI	DIMITON TO	BIMITON	LOCATION	BIMGE			<u> </u>	<u> </u>					TOLINA MONES
0010	124+00 -	154+37	MAI NLI NE	1	240	-	=	-	-	54	-	-	TEMPORARY SHOULDER WIDENING
0010	124+00 -	154+37	MAI NLI NE	2	5400	-	-	-	1920	1440	12800	-	EB LANE CLOSED
0010	124+00 -	154+37	MAI NLI NE	3	260	35	60	60	-	140	-	12800	WB LANE CLOSED
			T0TAL 0010		5900	35	60	60	1920	1634	12800	12800	

# CONSTRUCTION STAKING

CATEGORY	STATI ON TO STATI ON	LOCATI ON	CONSTRUCTI ON STAKI NG STORM SEWER 650. 4000 EACH	CONSTRUCTI ON STAKI NG SUBGRADE 650. 4500 LF	CONSTRUCTI ON STAKI NG BASE 650. 5000 LF	CONSTRUCTI ON STAKI NG CURB GUTTER AND CURB & GUTTER 650. 5500 LF	CONSTRUCTI ON STAKI NG PI PE CULVERTS 650. 6000 EACH	CONSTRUCTI ON STAKI NG RESURFACI NG REFERENCE 650. 8000 LF	CONSTRUCTI ON STAKI NG SUPPLEMENTAL CONTROL (PROJECT) 650. 9910 LS	CONSTRUCTI ON STAKI NG SLOPE STAKES 650. 9920 LF	REMARKS
0010	124+00 - 154+37	PROJECT	12	-	-	-	3	-	1	-	
0010	124+90 - 154+00	LT	-	2, 900	2, 900	-	-	-	-	2, 900	STAGE 1 - TEMPORARY LANE
0010	124+00 - 154+37	MAI NLI NE	-	-	-	-	-	3, 100	-	-	STAGE 2 & 3 - OVERLAY
0010	124+00 EB - 154+43 EB	MAI NLI NE	-	3, 100	3, 100	2, 700	-	-	-	3, 100	STAGE 2 - MAINLINE
0010	134+00 "S" - 135+83 "S"	SI DE ROAD	-	-	200	220	-	-	-	-	SCHOOL ENTRANCE
0010	148+33 "0" - 148+78 "0"	SI DE ROAD	-	-	50	140	-	-	-	-	OLSON ROAD
		TOTAL 0010	12	6, 000	6, 250	3, 060	3	3, 100	1	6, 000	

MISCELLANEOUS QUANTITIES

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

COUNTY: DANE

HWY: USH 14

PROJECT NO: 5310-01-73

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SHEET:

PAVEMENT **PAVEMENT** MARKI NG CONCRETE MARKI NG MARKI NG DI AGONAL CORRUGATED **EPOXY CURB EPOXY** MEDI AN 8-INCH **EPOXY** 12- I NCH EPOXY 646. 0126 647. 0456 647. 0726 647. 0856

**PAVEMENT** 

**PAVEMENT** 

MARKI NG

CATEGORY STATION TO STATION LOCATI ON LF LF LF LF SF REMARKS 0010 124+00 135+10 RT 1. 200 WHITE EDGELINE 124+00 129 + 50LT & RT 2, 200 DOUBLE YELLOW 0010 0010 124+00 -154 + 37LT 3, 100 WHITE EDGELINE

**PAVEMENT** 

MARKI NG

**EPOXY** 

4-INCH

646. 0106

0010

0010

0010

0010 0010

0010

0010

0010

0010

0010

0010

0010

0010

136+36

136+38

136+38

136+38

136+51

145+09

145+92

147 + 72

149+89

-

-

-

-

136+43

139+61

145+92

145+92

147+72

145+92

PAVEMENT MARKING

CL750 0010 129+50 130+60 0010 129+50 134+85 LT 550 YELLOW EDGELINE 135+30 RT 580 YELLOW EDGELINE 0010 129+50 0010 132+14 135+45 RT 680 110 RIGHT TURN LANE RT 70 0010 134+77 135 + 32

RT 20 CL330 LEFT TURN LANE RT 960 YELLOW EDGELINE LT 960 YELLOW EDGELINE RT 1, 200 WHITE EDGELINE 500 CL

3, 100 154+37 LT & RT DOUBLE YELLOW 149+89 RT 150 WHITE 3' SKIPS RT 460 154+37 WHITE EDGELINE

132+71 "S" - 135+50 "S" SCHOOL ENTRANCE 560 DOUBLE YELLOW 135+50 "S" - 135+68 "S" SCHOOL ENTRANCE 20 YELLOW EDGELINE 135+21 "S" - 135+50 "S" SCHOOL ENTRANCE 60

135+50 "S" - 135+68 "S" SCHOOL ENTRANCE 30

> TOTAL 0010 15, 040 1,070 90 110 1, 280

# **ROUTE AND SEAL**

415. 6000. S LF

CATEGORY STATI ON TO STATION LOCATI ON REMARKS 0010 129+50 RT 242 CORRUGATED MEDIAN AND HMA PAVEMENT INTERFACE - 130+60 950 0010 130+60 - 135+35 RT BACK OF CURB AND ASPHALTIC MEDIAN INTERFACE 0010 135+80 RT 40 SCHOOL ENTRANCE CORRUGATED ISLAND 0010 136+05 RT 60 SCHOOL ENTRANCE SAFETY ISLAND RT 1750 BACK OF CURB AND ASPHALTIC MEDIAN INTERFACE 0010 136+34 - 145+09 RT 188 CORRUGATED MEDIAN AND HMA PAVEMENT INTERFACE 0010 145+09 - 145+92

> TOTAL 0010 3230

Ε HWY: USH 14 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: PROJECT NO: 5310-01-73

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# CONCRETE BARRIER

CATEGORY	STATION TO	STATI ON	LOCATI ON	TEMPORARY PRECAST DELI VERED 603. 8000 LF	TEMPORARY PRECAST I NSTALLED 603. 8125 LF	CRASH CUSHI ON TEMPORARY 614. 0905 EACH	REMARKS
0010 0010	128+12 - 129+40	129+40	RT RT	128	128	- 1	STAGE 2
			TOTAL 0010	128	128	1	

# CONCRETE CORRUGATED MEDIAN

620. 0100

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	SF	REMARKS
0010	129+50	-	130+60	RT	1, 210	NORTH MEDIAN
0010	135+86			RT	38	SCHOOL ENTERANCE/EXIT
0010	145+09	-	145+92	RT	913	SOUTH MEDIAN
				TOTAL 0010	2, 161	

					SEEDI NG					
						SEEDI NG	SEEDI NG		SEEDI NG	
					FERTI LI ZER	MI XTURE	MI XTURE	SEEDI NG	BORROW	
				MULCHI NG	TYPE B	NO. 20	NO. 40	TEMPORARY	PIT	
				627. 0200	629. 0210	630. 0120	630. 0140	630. 0200	630. 0300	
CATEGORY	STATION TO	STATI ON	LOCATI ON	SY	CWT	LB	LB	LB	LB	REMARKS
									•	
0010	124+00 -	154+37	LT	7, 578	4. 8	205	-	205	-	
0010	124+00 -	129+26	RT	603	0. 4	16	-	16	-	
0010	129+26 -	148+80	RT	6, 745	4. 0	-	103	155	-	
0010	149+20 -	154+45	RT	2, 878	1.8	78	_	78	-	
0010			BORROW PIT	-	-	-	-	-	60	
			TOTAL 0010	17, 804	11	299	103	454	60	

# SAWI NG

CATEGORY	STATI ON	TO_	STATI ON	LOCATI ON	SAWI NG ASPHALT 690. 0150 LF	SAWI NG CONCRETE 690. 0250 LF	REMARKS
0010	124+90	-	154+00	LT	2900	-	STAGE 1 - TEMPORARY LANI
0010	145+92	-	129+50	CENTERLI NE	1700	_	STAGE 2
0010	124+00			MAI NLI NE	40	_	PROJECT START
0010	154+37			MAI NLI NE	40	-	PROJECT END
0010	134+00 "S"			SI DE ROAD	25	-	SCHOOL ENTRANCE
0010	148+33 "0"			SI DE ROAD	50	-	OLSON ROAD
0010	148+33 "0"			LT	-	3	LT CURB & GUTTER
0010	148+45 "0"			RT	-	3	RT CURB & GUTTER
				TOTAL 0010	4755	6	

PROJECT NO: 5310-01-73 HWY: USH 14 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E** 

# **EARTHWORK SUMMARY**

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100) EBS	Salvaged/Un usable Pavement Material (4)	Available	Marsh Excavation (6)	Rock Excavation (7)		Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
Division 1			Cut (2)	Excavation (3)			(item #205.0500)	(item #205.0200)	Factor	Factor 0.80	Factor	Factor 1.30	Factor		Factor 1.25			(item #208.0100)	
Stage 1 - Temp Lane	125+91 to 154+03		1,466			1,466									689	777	777		
Division 1 Subtotal			1,466	0	0	1,466	0	0	0	0	0	0	0	0	689	777	777	0	
Division 2																			
Stage 2 - Mainline	124+00 to 154+37.4		5,196	132		5,196				106		172			6,408	-1,212		1,212	
School Entrance	134+00 "S" to 135+75.42 "S"		201			201									729	-528		528	
Division 2 Subtotal			5,397	132	0	5,397	0	0	0	106	0	172	0	0	7,137	-1,740	0	1,740	
Division 3																			
Stage 3 - Remove Temp Lane	125+91 to 154+03		1,901			1,901									113	1,788	1,788		
Division 3 Subtotal			1,901	0	0	1,901	0	ō	0	0	0	0	0	0	113	1,788	1,788	0	
Grand Total			8,764.00	132.00	0.00	8,764.00	0.00	0.00	0.00	105.60	0.00	171.60	0.00	0.00	7,939.00	825.00	2,565.00	1,740.00	0.00
	<u> </u>	Total Co	mmon Exc	8.896.00			-	-											

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100

2) Salvaged/Unsuable Pavement Material is included in Cut.

3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.

4) Salvaged/Unusable Pavement Material

5) Available Material = Cut - Salvaged/Unusuable Pavement Material

6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 20505

7) Rock Excavation item number 205.0200

8) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6

9) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8

10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100

11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100

12) Expanded Rock - Factor = 1.1

13) Expanded Fill. Factor = 1.25

Depending on selections:

| Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor - Reduced Marsh - Reduced EBS) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor - Reduced EBS) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor - Reduced Marsh) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor - Reduced Marsh) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor) \* Fill Factor
| Or | Expanded Fill = (Unexpanded Fill - Rock\* Rock Factor) \* Fill Factor

HWY: USH 14 Ε PROJECT NO: 5310-01-73 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET:

FILE NAME: N:\PDS\...\030200\_mq.pptx PLOT SCALE: 1:1 PLOT DATE: June 14, 1911 PLOT BY: A.R.H. PLOT NAME :

# STATE OF WISCONSIN

# DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET PROJECT 5310-01-20 SPRING GREEN - MADISON

(WIS. HEIGHTS HS DRIVE - OLSON ROAD)

# CONVENTIONAL SIGNS AND ABBREVIATIONS

SECTION LINE QUARTER LINE SIXTEENTH LINE NEW REFERENCE LINE IRON PIN NOTATION FOR COMBUSTABLE FLUIDS NEW R/W LINE EXISTING R/W LINE PROPERTY LINE NOTATION FOR HIGH VOLTAGE TRANS-MISSION LINES CUITON OFF-PREMISE SIGN LOT, TIE AND OTHER CORPORATE LIMITS 11111111 UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETG.) FEE ACQUISITION AREA (HATCHING VARIES BY OWNER) TELEPHONE POLE
PEDESTAL (LABEL TYPE (COMMUNICATIONS, ELECTRIC TEMPORARY LIMITED ACCESS RESTRICTED BY ACQUISITION EASEMENT AREA 22222 EASEMENT (HIGHWAY, PERMANENT LIMITED OR RESTRICTED DEVELOPMENT) AREAS NO ACCESS (BY STATUTORY AUTHORITY: ACCESS RESTRICTED
(BY PREVIOUS PROJECT/CONTROL) TRANSMISSION STRUCTURES S S (102)

BUILDING

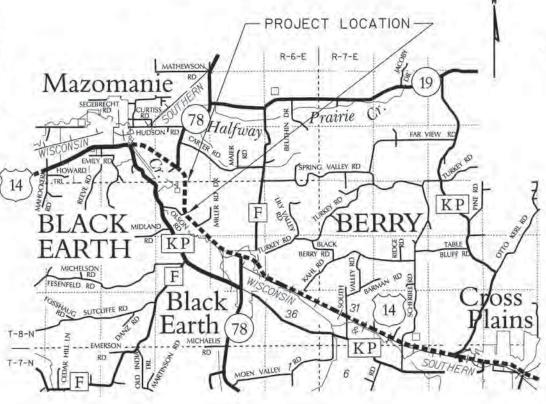
POINT OF COMPOUND CURVE

CONVENTIONAL UTILITY SYMBOLS WATER GAS TELEPHONE OVERHEAD TRANSMISSION LINES ELECTRIC CABLE TELEVISION FIBER OPTIC -FO-SANITARY SEWER -SAN-STORM SEWER -SS-

POINT OF CURVATURE ACCESS POIN ACCESS RIGHTS POINT OF INTERSECTION POINT OF REVERSE CURVATURE ACRES P.D. PRIVATE DRIVEWAY AGRICULTURAL P.D. AGRL P.D. POINT ON TANGENT POT P.L. ALUMINUM PROPERTY LINE AND OTHERS ET.AL. (100°) REFERENCE LINE BLOCK BLK REMAINING CENTERLINE C.S.M. RIGHT OF WAY R/W CERTIFIED SURVEY MAP SEC. SEPV. S.F. CONCRETE CONC. SECTION COR. SEPTIC VENT CORNER CO. CTH DIST. DOC. EASE SQUARE FEET COUNTY STH STATE TRUNK HIGHWAY COUNTY TRUNK HIGHWA DISTANCE DOCUMENT NUMBER STA. STATION SUBDIVISION EASEMENT TAN. TANGENT EXISTING GAS VALVE G.V. GN H.E. TELEPHONE PEDESTAL TEMPORARY LIMITED EASEMENT GRID NORTH TRANSPORTATION PROJECT PLAT TPP HIGHWAY EASEMENT UNITED STATES HIGHWAY ID. LC LT. IDENTIFICATION VOLUME CURVE DATA LEFT LONG CHORD LONG CHORD BEARING L.C.B. NUMBER OUTLOT DEGREE OF CURVE PAGE CENTRAL ANGLE OR DELTA PERMANENT LIMITED EASEMENT P.L.E. P.O.B. LENGTH OF CURVE POINT OF BEGINNING TANGENT DIRECTION AHEAD

UTILITY NUMBER (92)

**USH 14** DANE COUNTY



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 5310-01-20.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY  $\frac{7}{4}$ " X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN NON ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OF CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

EXISTING HIGHWAY RIGHT-OF-WAY FOR U.S.H. 14 ESTABLISHED FROM PREVIOUS PROJECT DJ 1435 AND CSM 9400.

EXISTING ACCESS CONTROL ALONG U.S.H. 14 ESTABLISHED FROM PREVIOUS PROJECT 5310-01-29 AND CSM 9400. DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (T.L.E.) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (T.L.E.#) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN. A TEMPORARY LIMITED EASEMENT (T.L.E.) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN.

A PERMANENT LIMITED EASEMENT (P.L.E.) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS TO DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHMAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES,

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, ROCK COUNTY, NAD83(9). IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES.
GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF TRANSPORTATION OFFICE IN MADISON

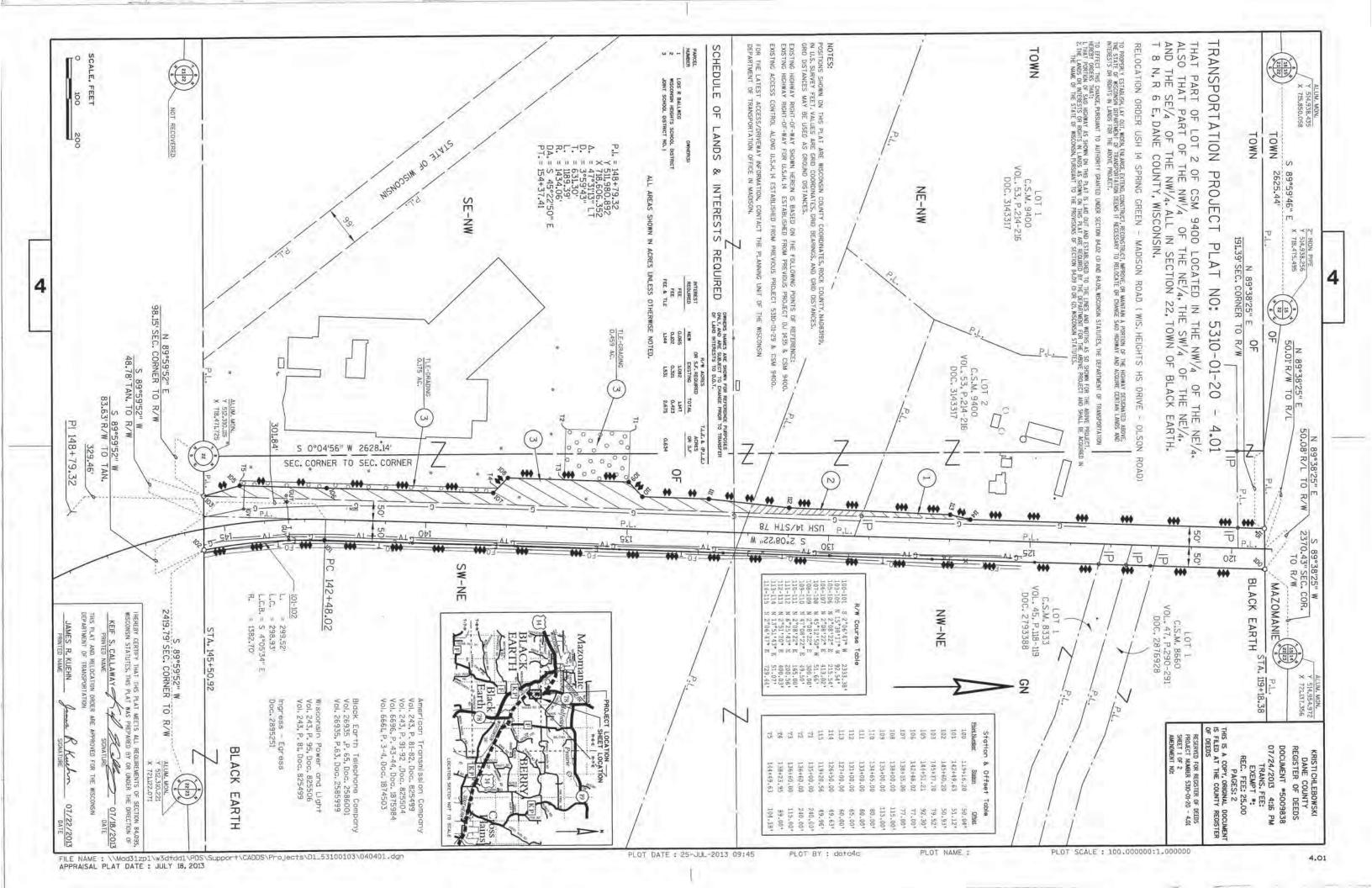
LAYOUT SCALE MILES

> TPP NUMBER 5310-01-20 - 4.01 SHEET 2 OF 2

4

PLOT DATE : 09-JUL-2013 08:27 PLOT BY : dote4c PLOT NAME :

PLOT SCALE ; 100.000000:1.000000



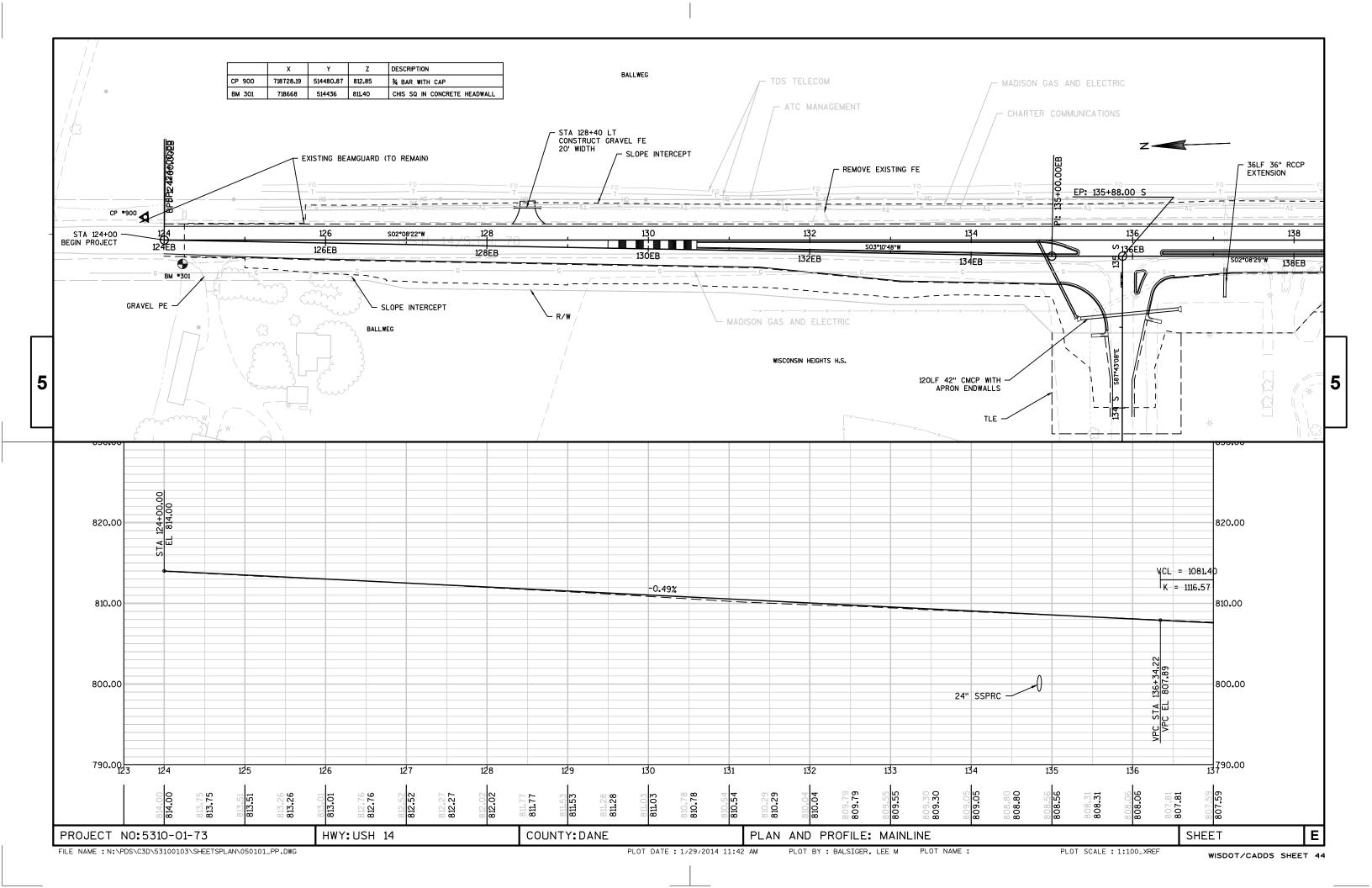
REVISION DATE

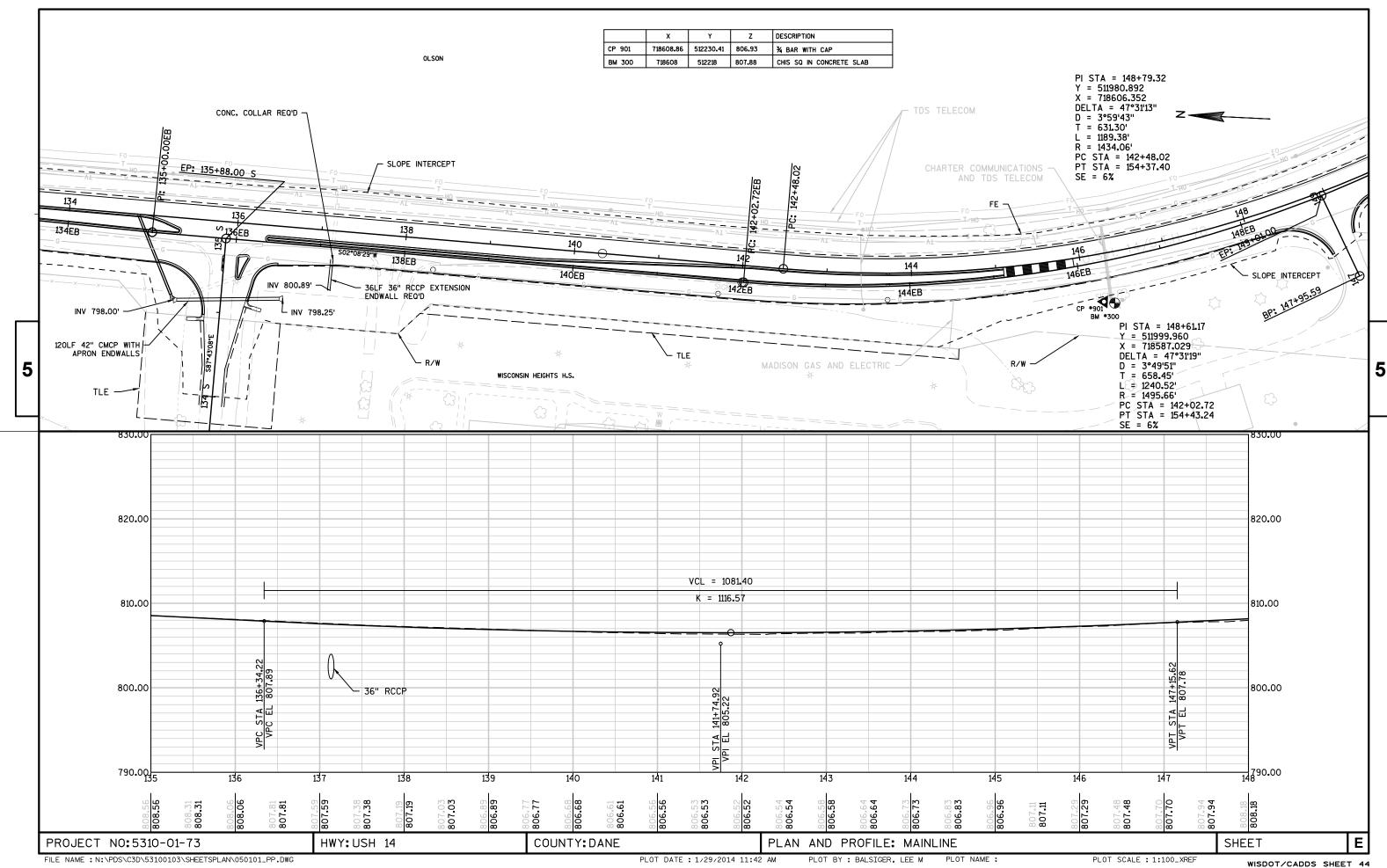
TRANSPORTATION PROJECT PLAT 5310-01-20 - 4.02

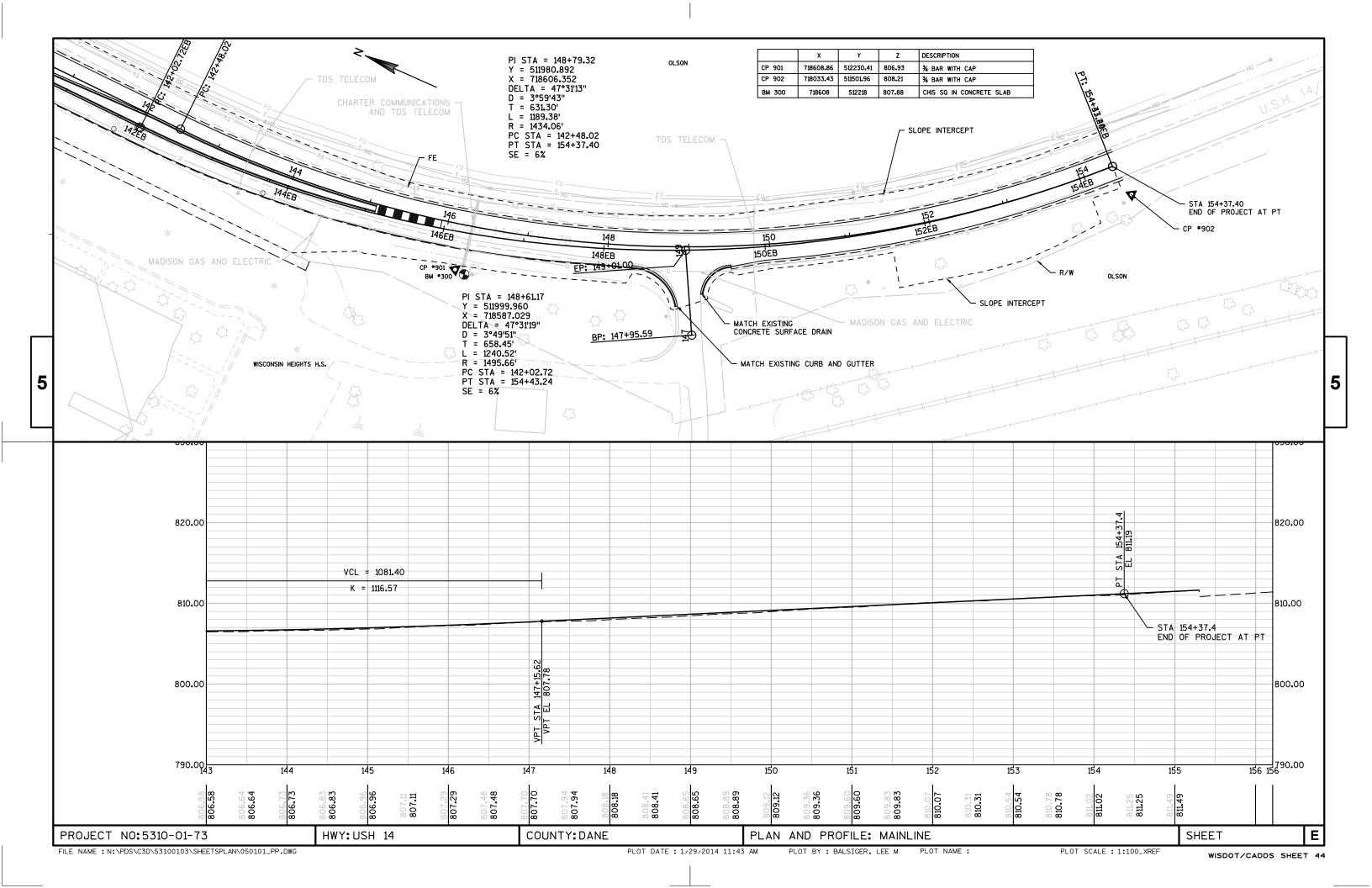
RELOCATION ORDER USH 14, SPRING GREEN - MADISON (WIS. HEIGHTS HS DRIVE - OLSON ROAD)

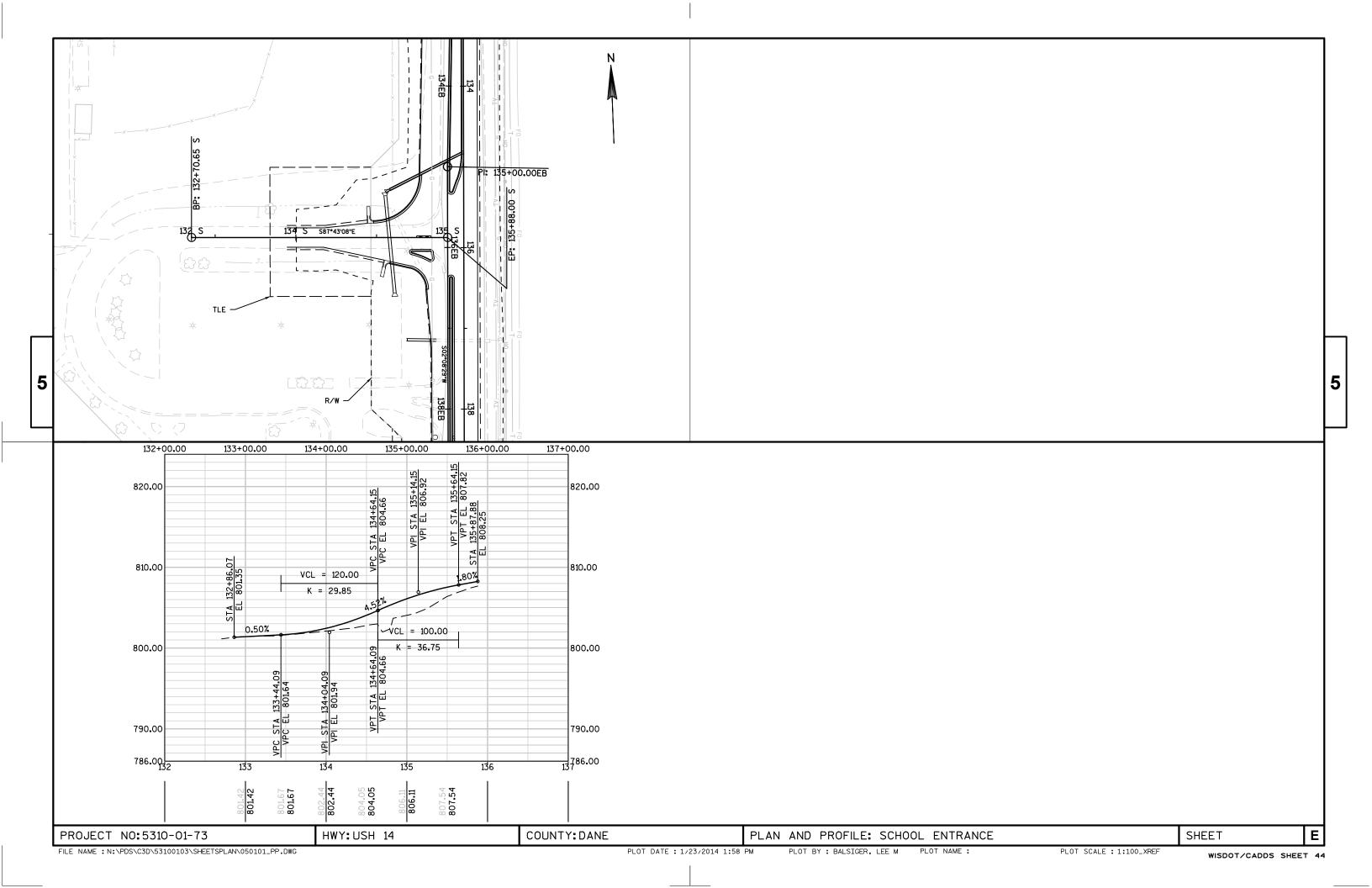
# R/W MONUMENT POINT NUMBER AND COORDINATE TABLE

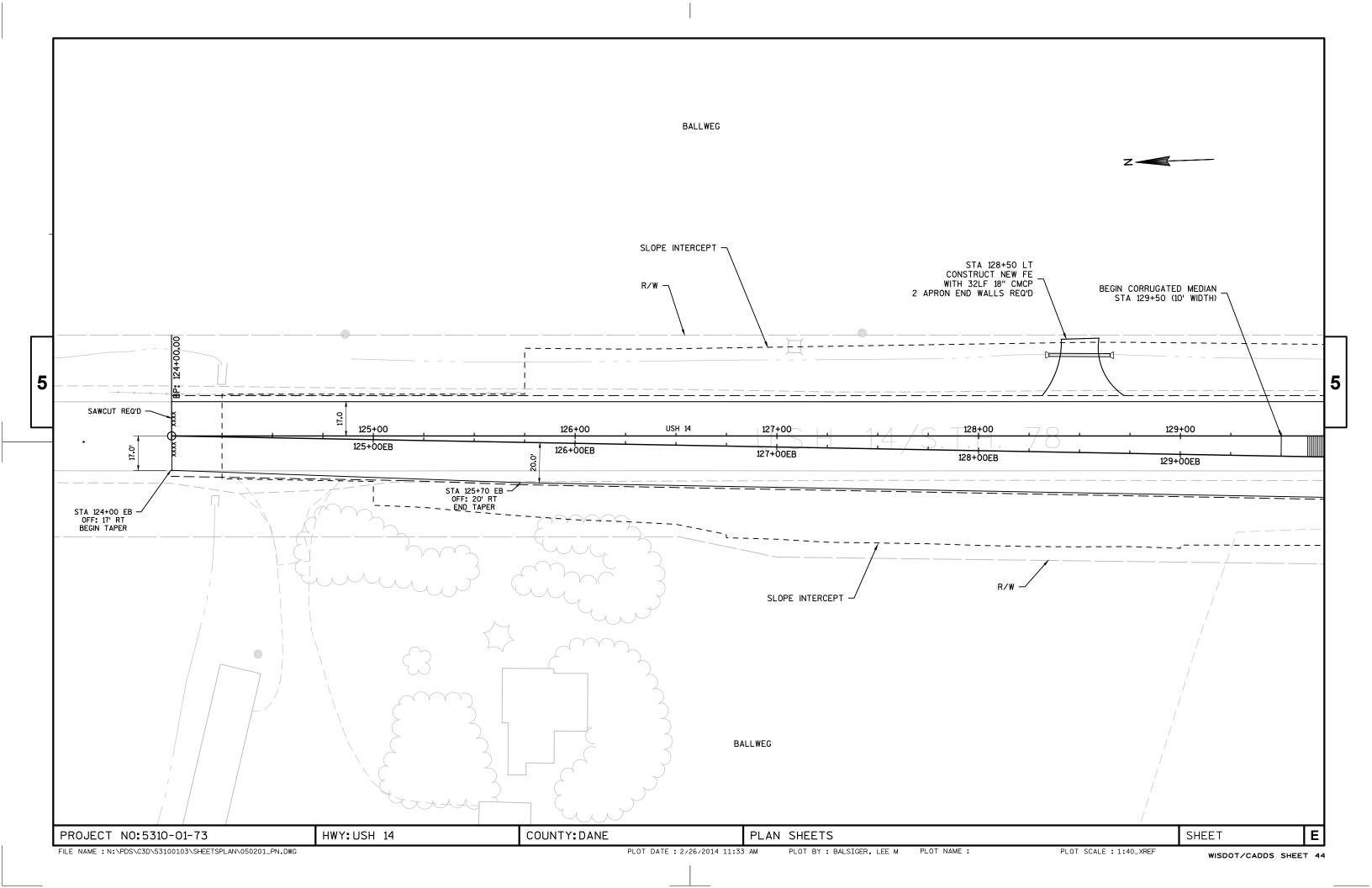
AND COORDINATE TABLE POINT Y X  AND COORDINATE TABLE POINT Y X  POINT
100 514940.086 718766.974 101 512808.295 718680.942 102 512310.119 718569.873 103 512310.119 718569.873 105 512399.236 718544.927 106 512614.630 718552.974 107 513027.362 718588.393 108 513063.757 718531.726 109 513363.548 718542.926 110 513397.217 718579.208 111 513562.102 718585.388 112 513761.402 718607.824 113 514160.937 718627.754 114 514210.515 718639.988

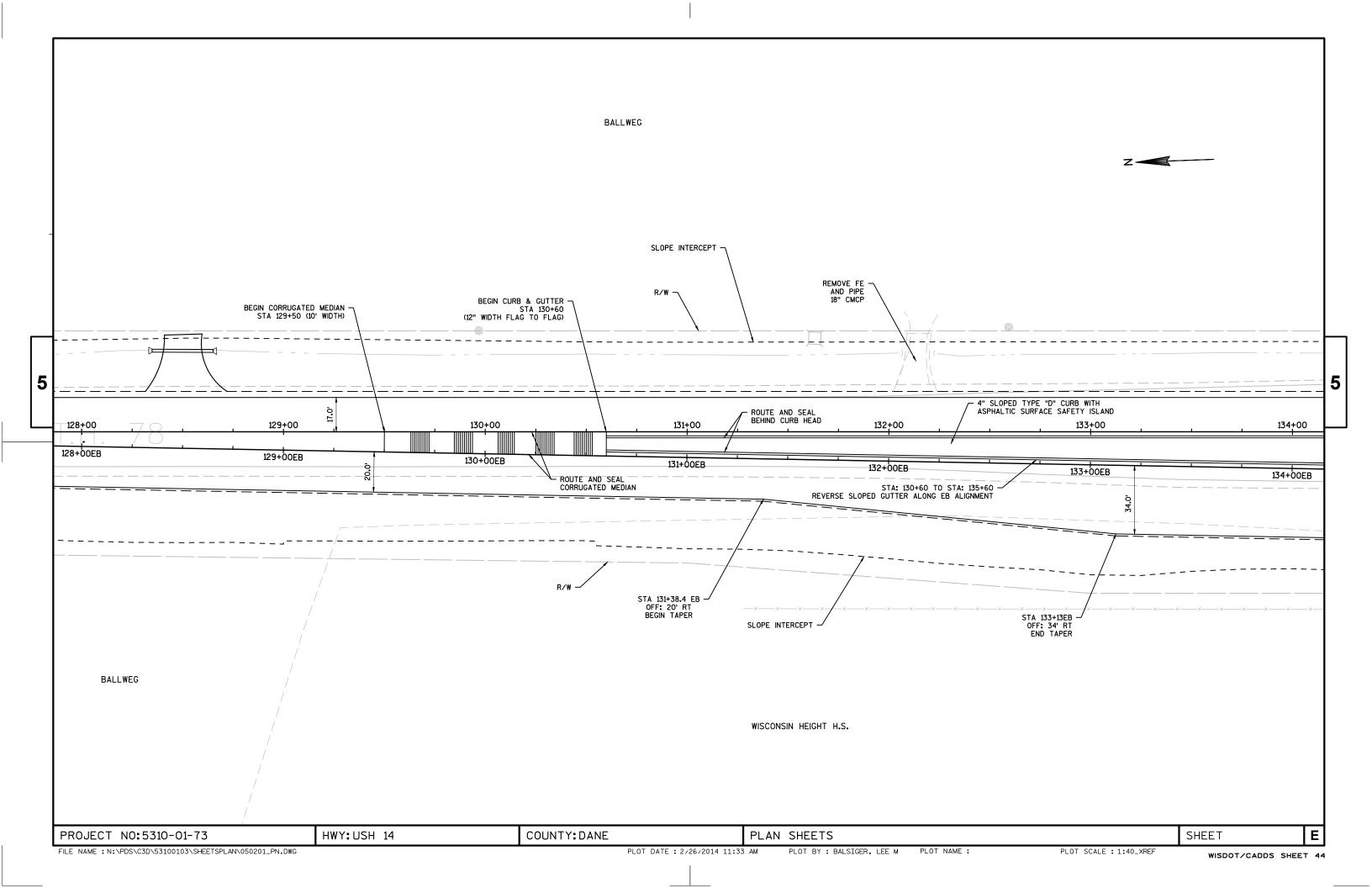


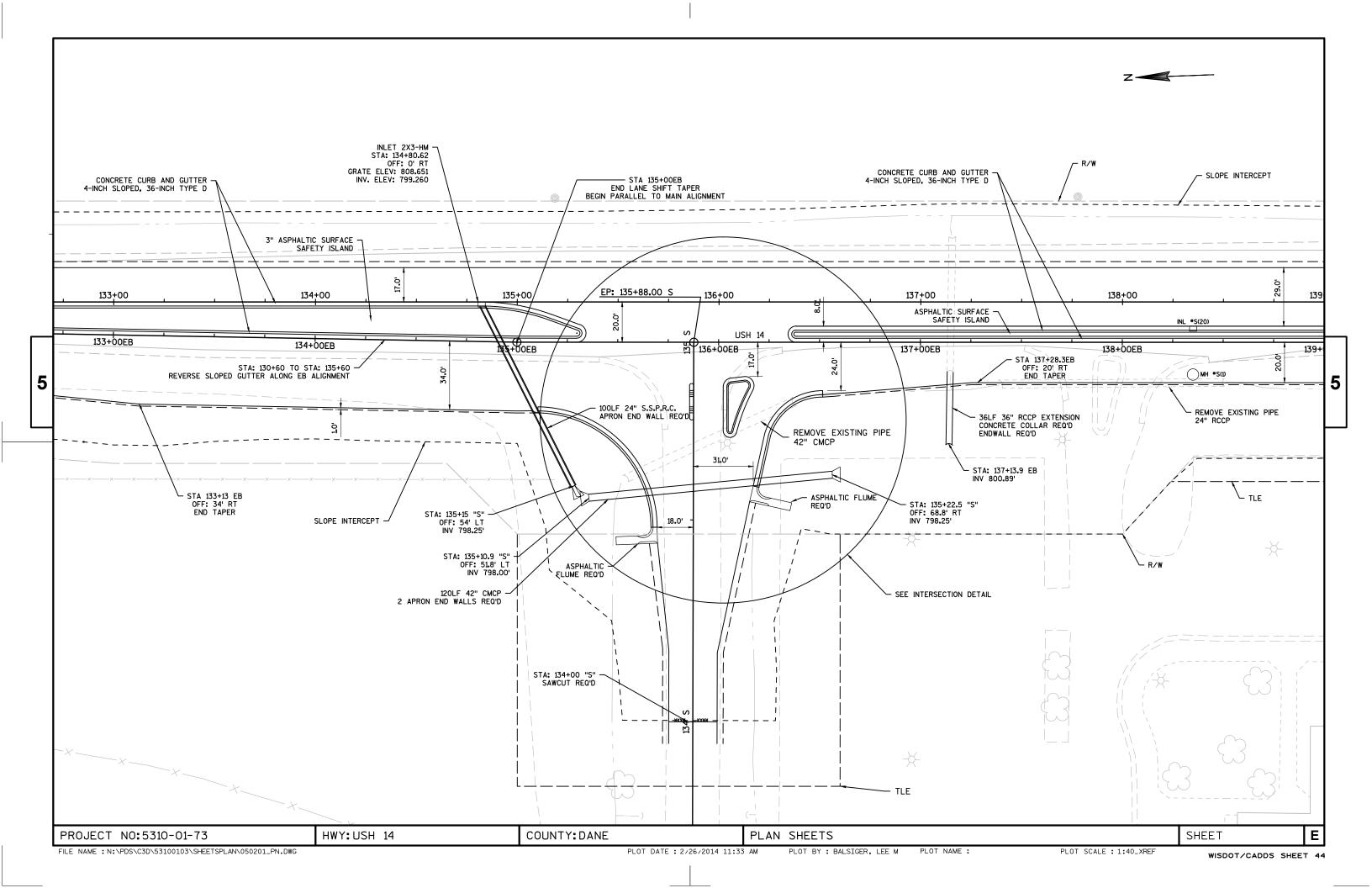


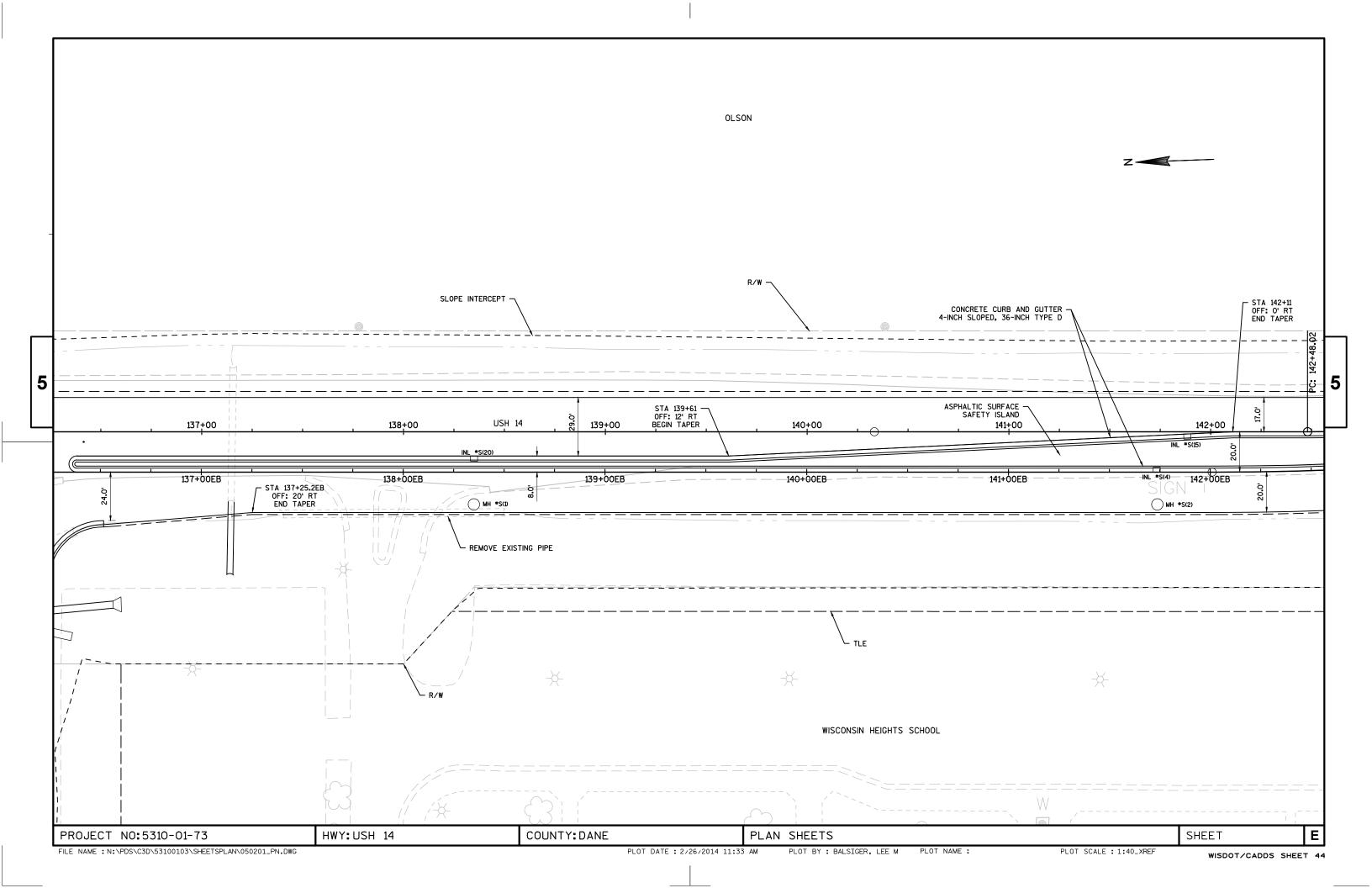


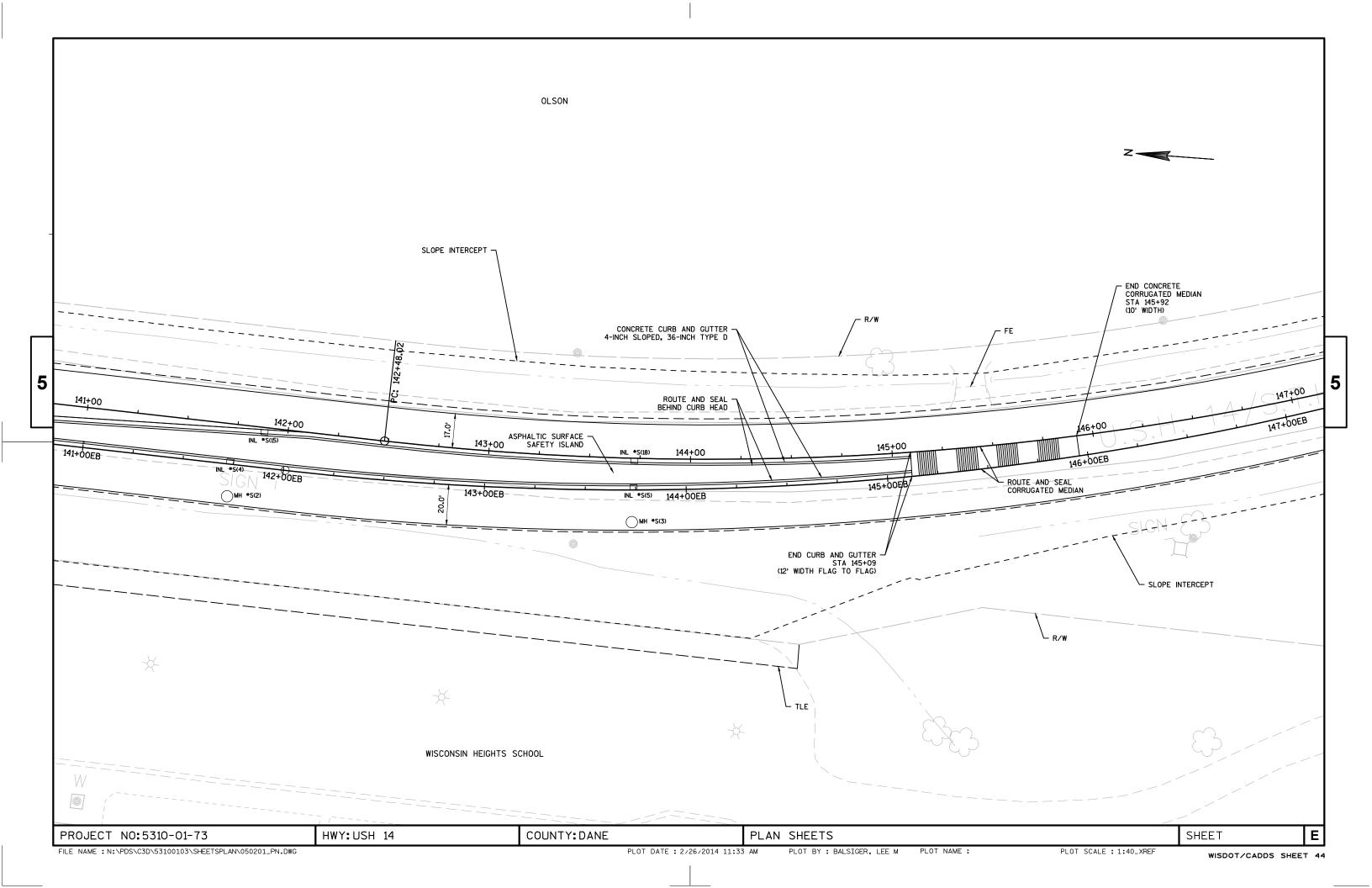


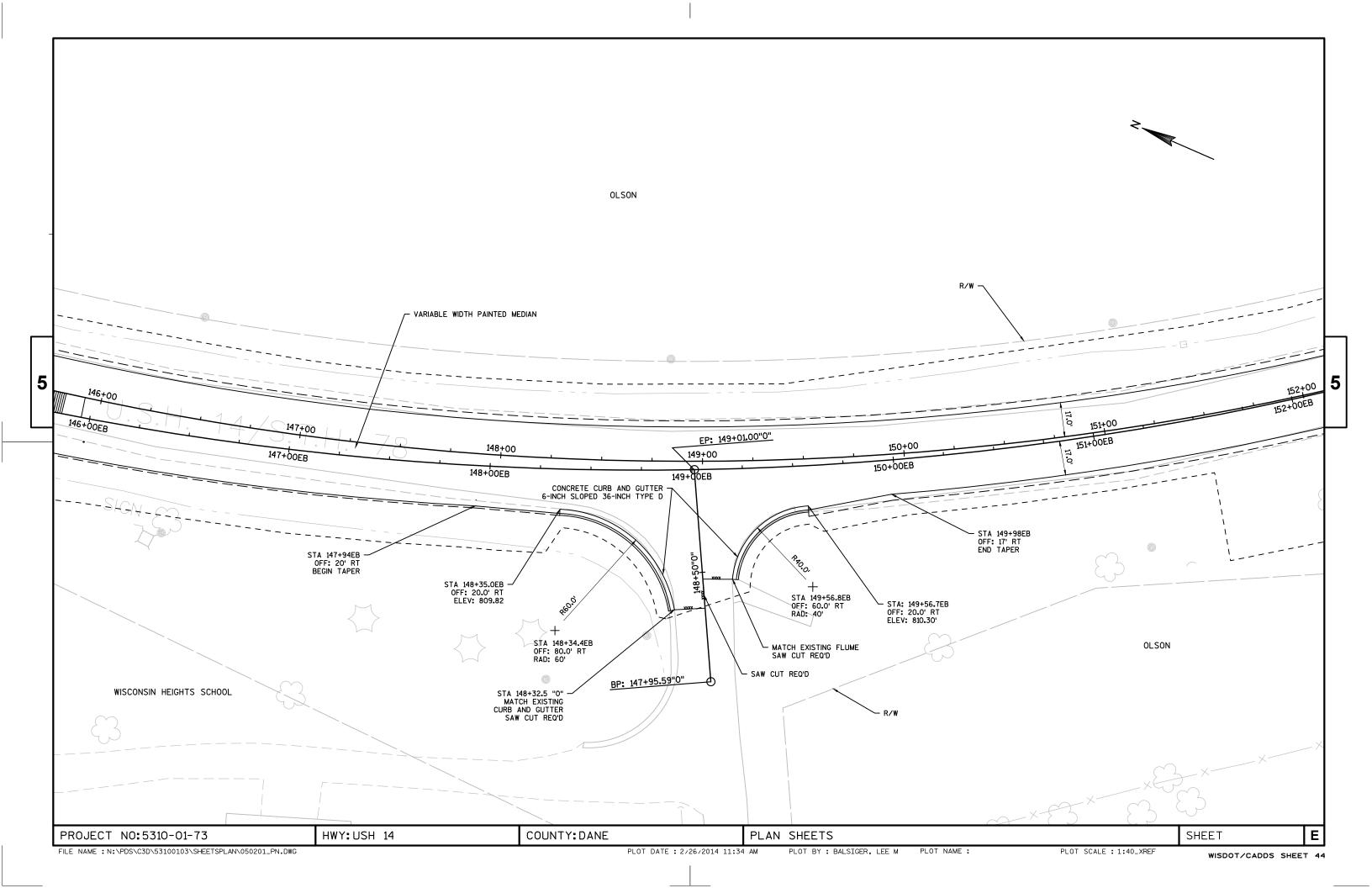


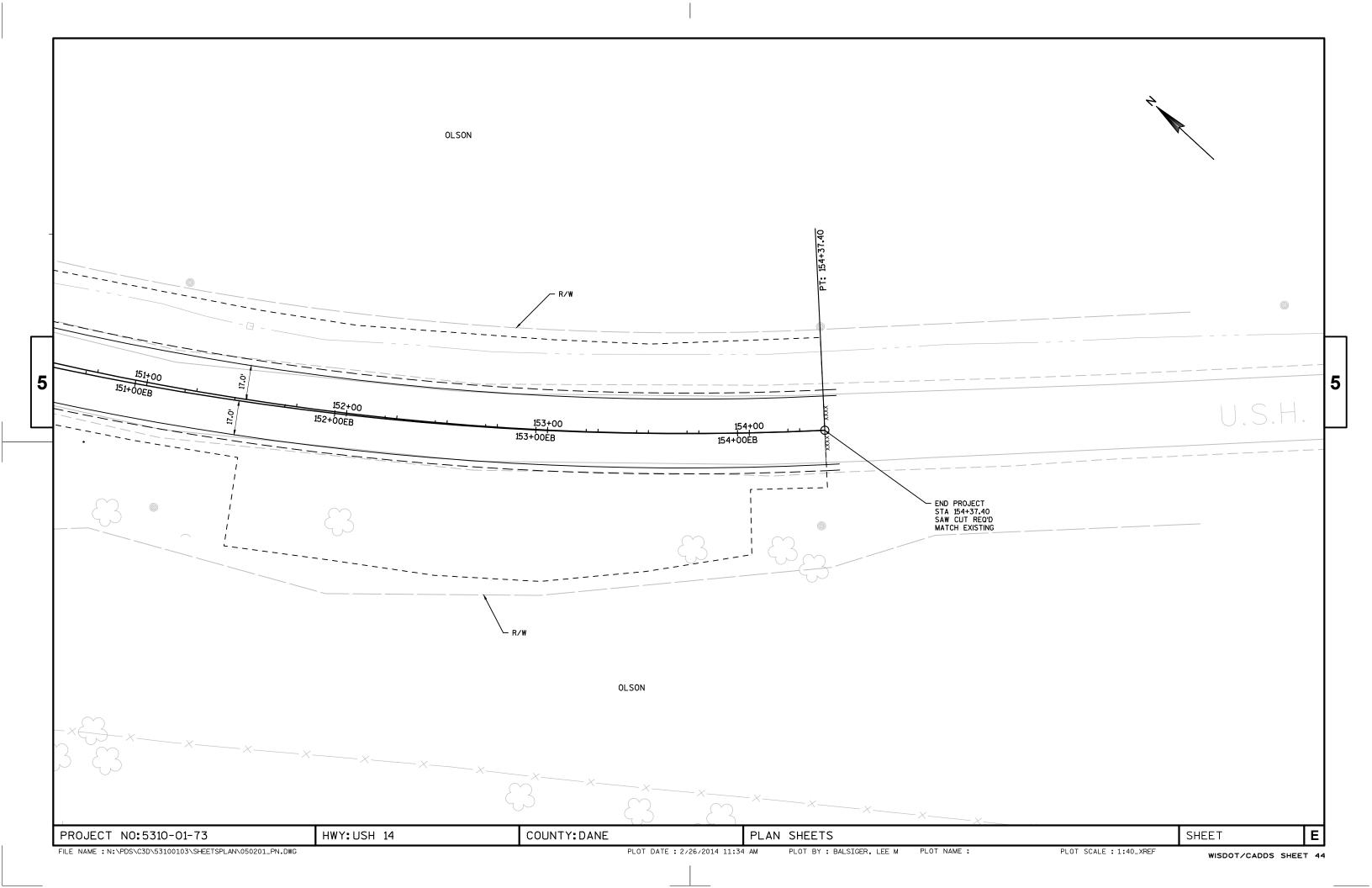


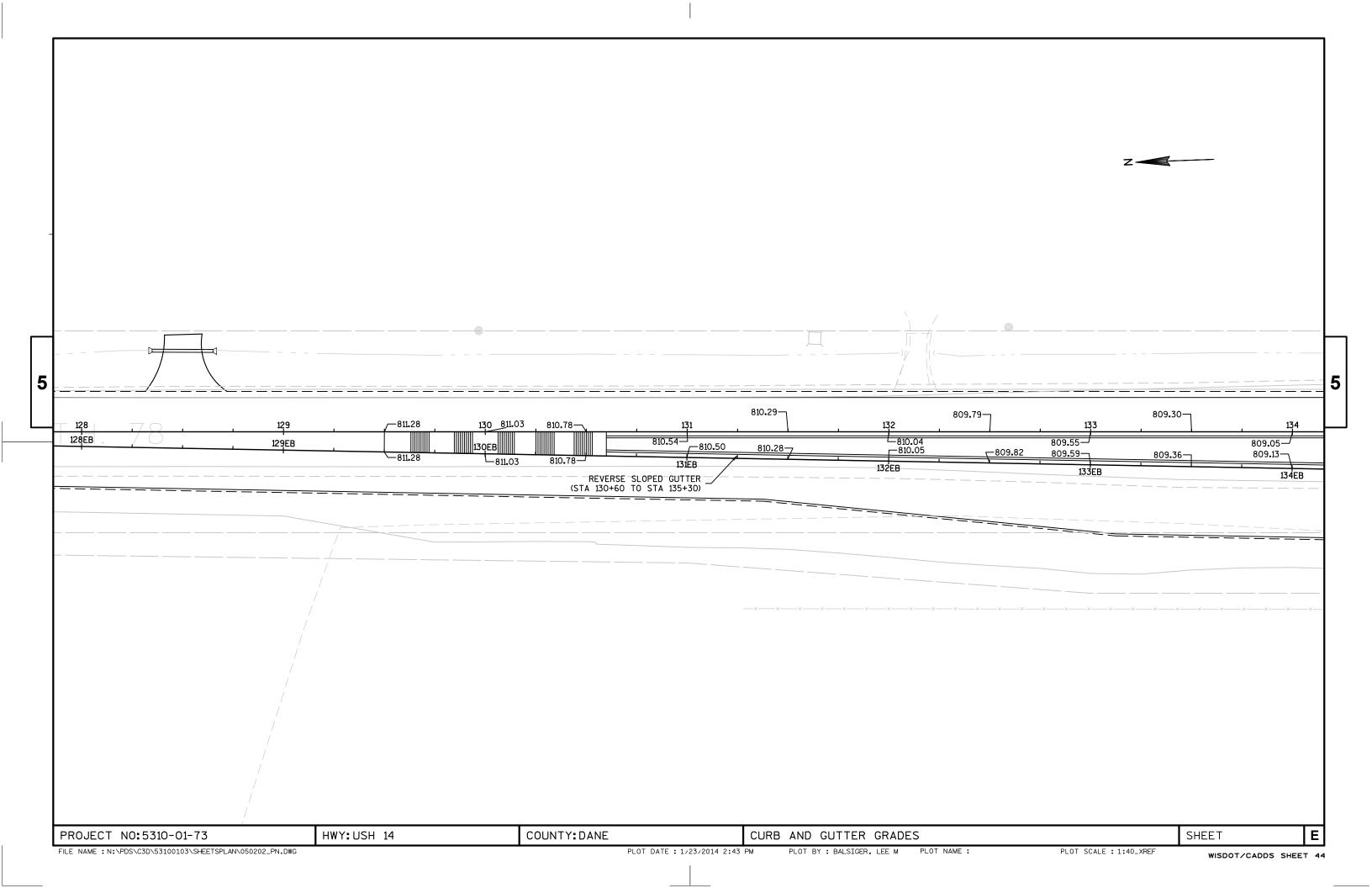


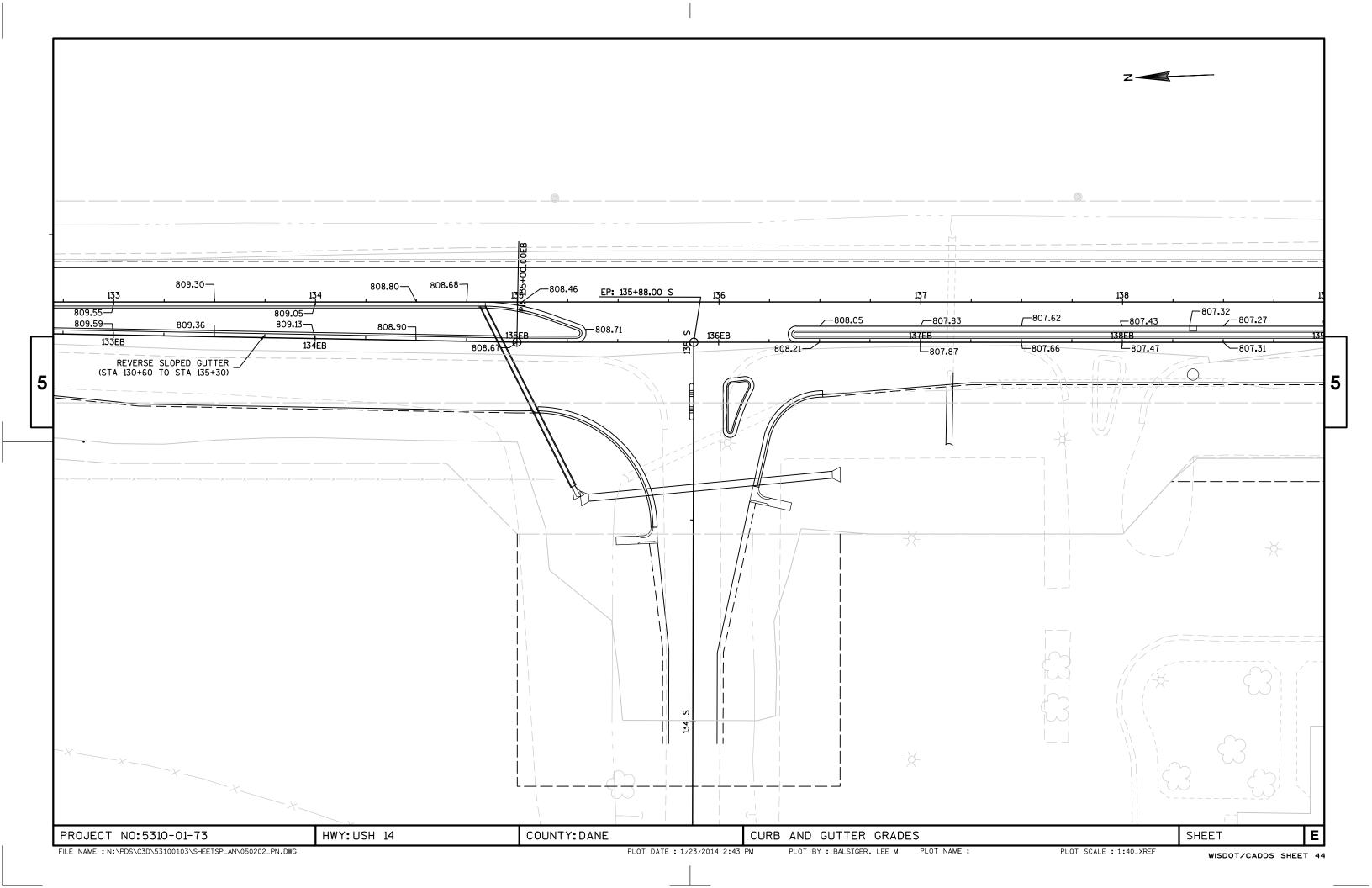


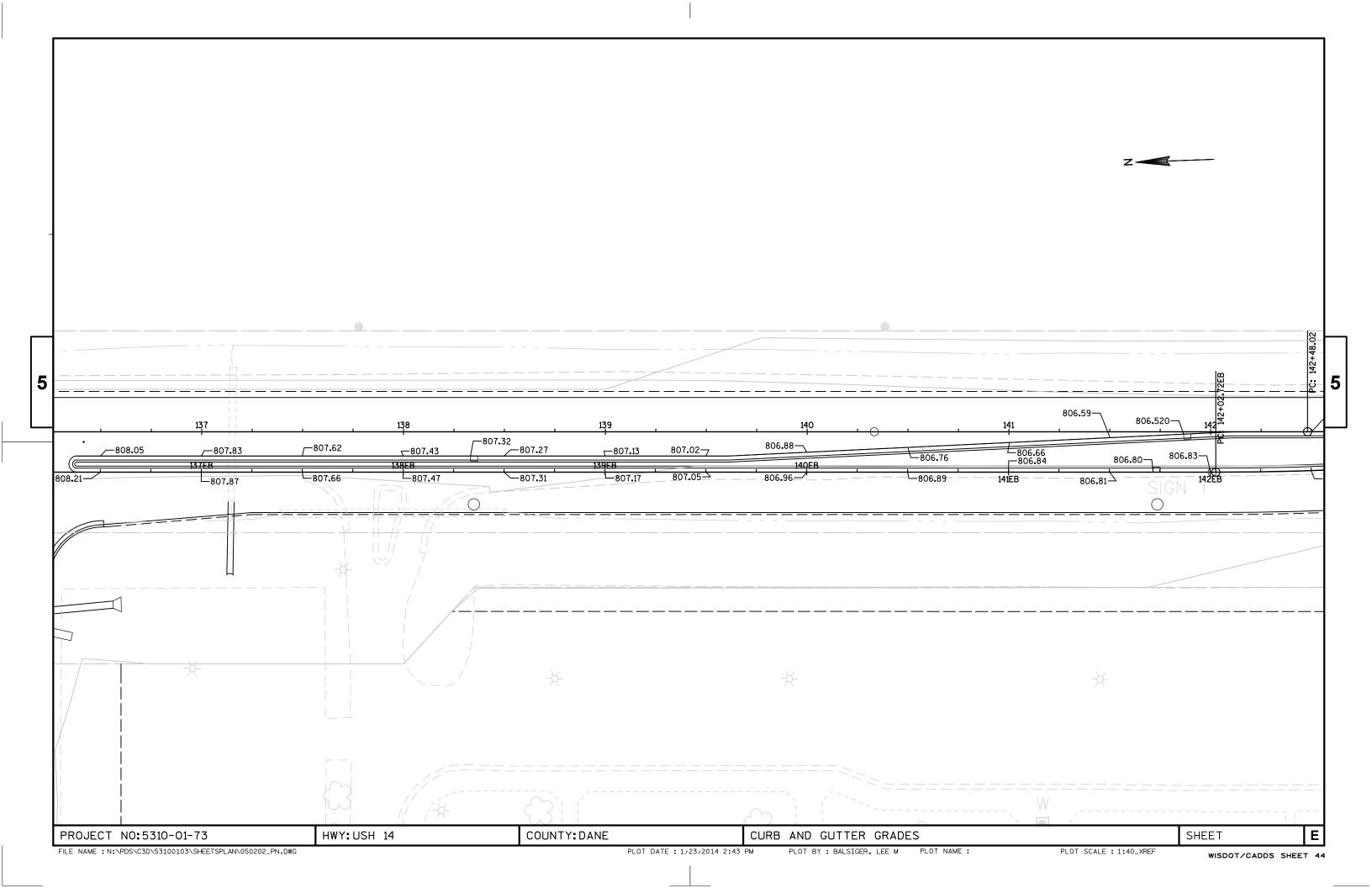


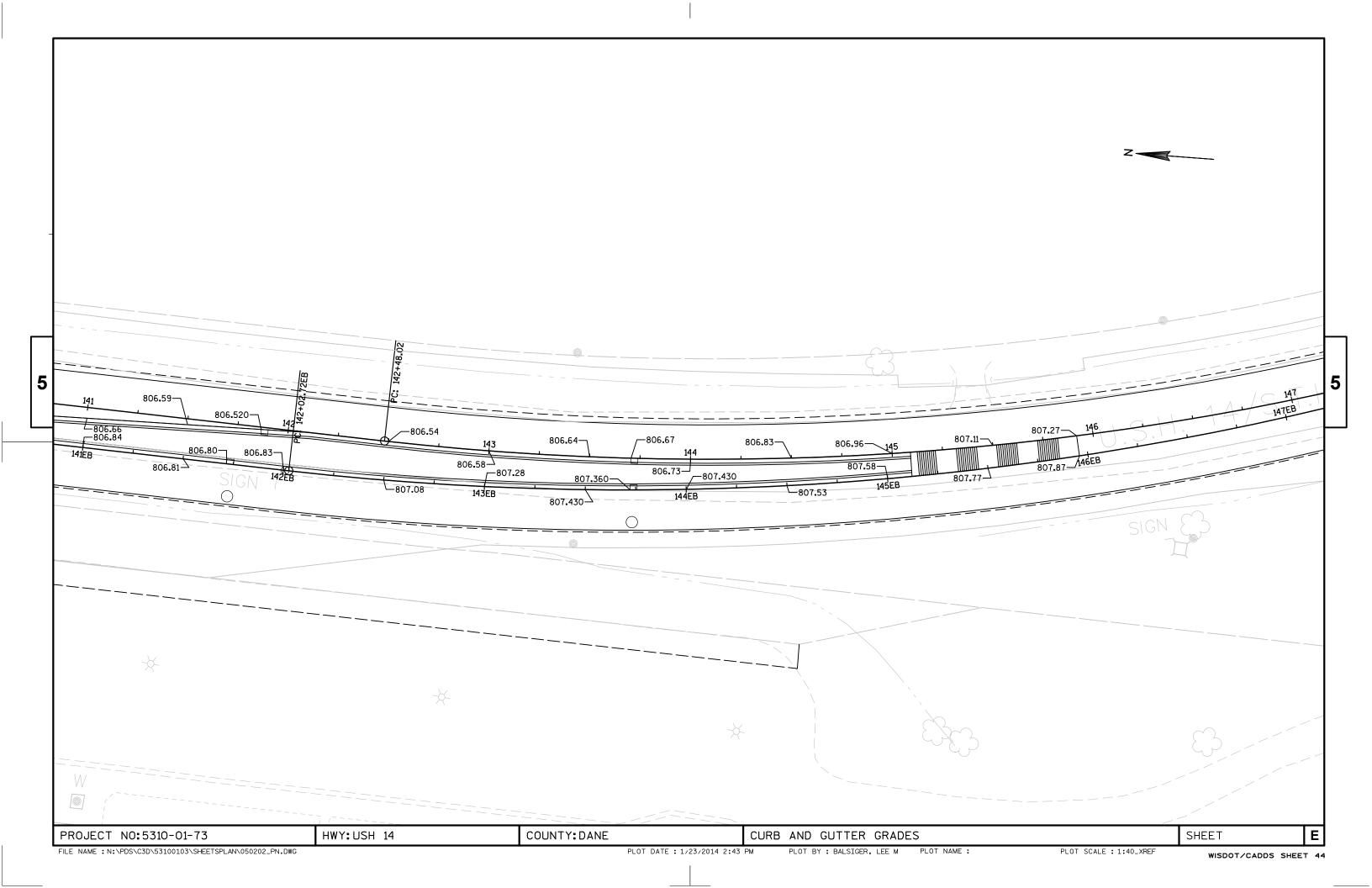








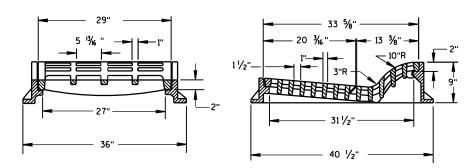




# Standard Detail Drawing List

08A05-19C 08A05-19D 08B09-01 08C07-01 08D01-17 08D04-05 08E08-03 08E09-06 08E10-02 08E14-01 08F01-11 08F04-07 08F08-02 11B01-05 14B07-13A 14B07-13B 14B07-13C 14B07-13E 14B07-13F 14B07-13G 14B07-13H	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT CONCRETE CURB, CONCRETE CURB AND QUTTER AND TIES CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES TYPI CAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE INLET PROTECTION TYPE A, B, C AND D TRACKING PAD APRON ENDWALLS FOR CULVERT PIPE JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS CONCRETE CORRUGATED MEDIAN CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B 14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A01-11 15A03-02A	MARKER POST FOR RIGHT-OF-WAY FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-05 15C18-03	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES MEDIAN ISLAND MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

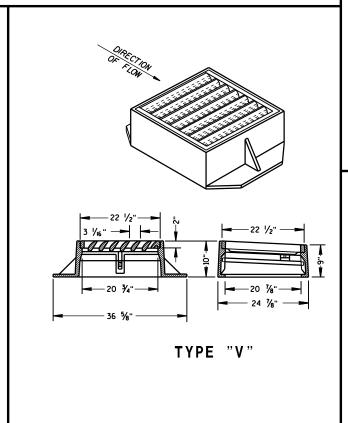
6



TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

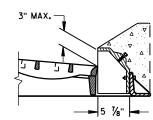
# 25 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 25 ½" 23 ½" 25 ½" 25 ½" 26 ½" 27 ½" 28 ½" 28 ½" 29 ½" 20 ½"



# GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

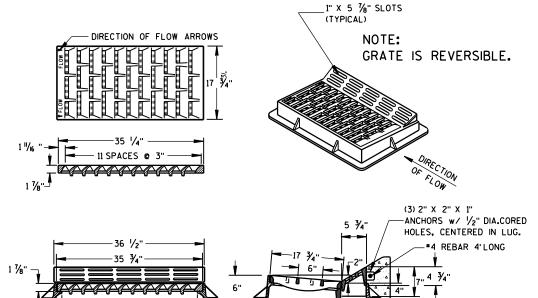
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



# ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

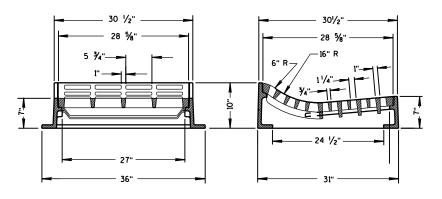
NOIE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



# TYPE "HM"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



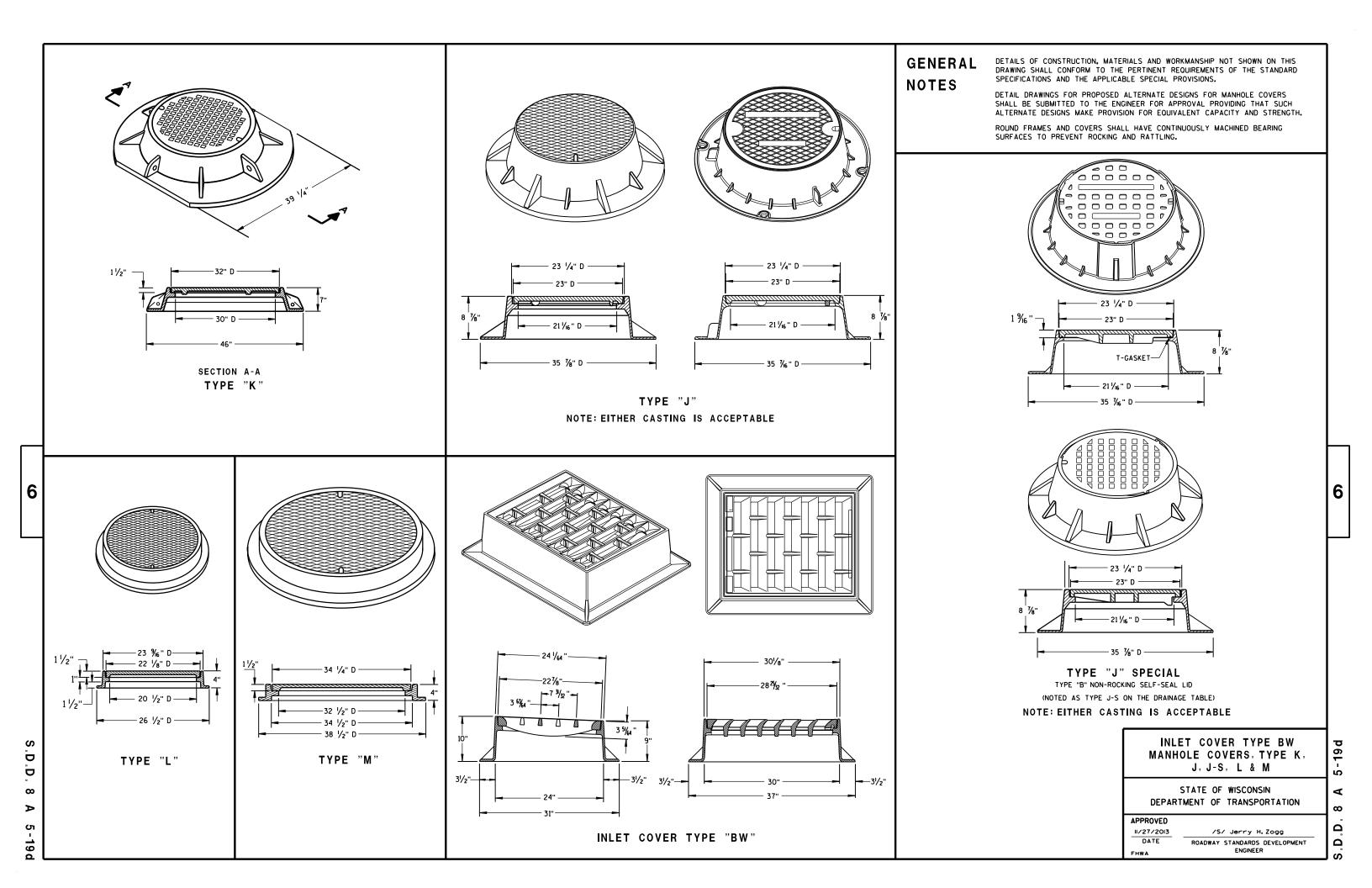
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

II/27/2013
DATE / /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

A 5-19

D.D. 8



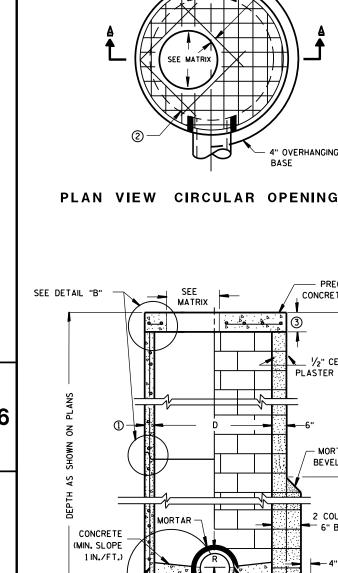






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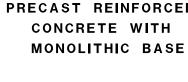
SEE

MORTAR -

MATRIX

• 4° • •

PRECAST REINFORCED — CONCRETE FLAT SLAB TOP



②-

CONTRACTOR TO PROVIDE DRAWING(S)

STAMPED BY A PROFESSIONAL ENGINEER

SEE DETAIL "A"

(I)·

PRECAST REINFORCED CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED **CONCRETE BASE 2** 

2" (TYP)

" OVERHANGING

- PRECAST REINFORCED

CONCRETE FLAT SLAB TOP

1/2" CEMENT

- MORTAR

BEVEL 45°

2 COURSES 으는

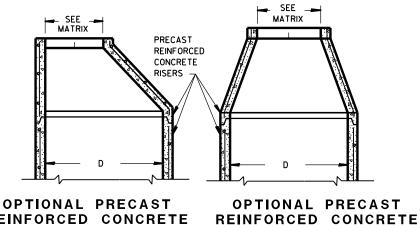
12'. EPT

6" BLOCK

4" MIN

SPLIT PIPE OR FORM CONCRETE TO FIT

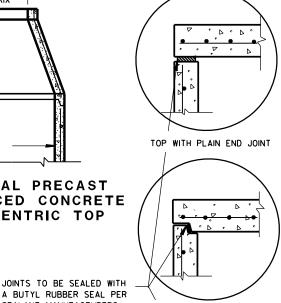
PLASTER COAT



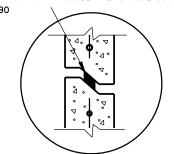
REINFORCED CONCRETE **ECCENTRIC TOP** CONCENTRIC TOP

**PRECAST** 

WALL

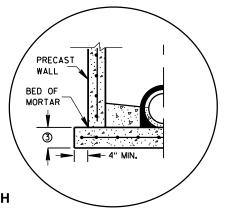


A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS TOP WITH TONGUE AND GROOVE JOINT RECOMMENDATIONS CONFORMING TO ASTM C990



RISER WITH TONGUE AND GROOVE JOINT

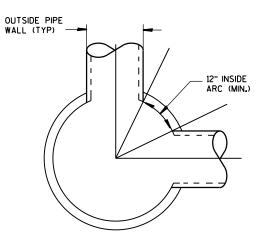
**DETAIL** "B"



PRECAST REINFORCED

CONCRETE WITH INTEGRAL BASE OPTION

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION DETAIL "A"



DETAIL "C"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

# **GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L". "CATCH BASINS 4-B". "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING: PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT. 5 INCHES FOR 4-FT. 6 INCHES FOR 5-FT. 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.
- (2) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- (3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS

# MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	С	ALL J'S	К	L	M
OPENING SIZE (FT)					
2 DIA.	х	х		х	
3 DIA.			×		Х

# PIPE MATRIX

MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES							
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						
5-FT	36	24						
6-FT	42	36						
7-FT	48	36						
8-FT	60	42						

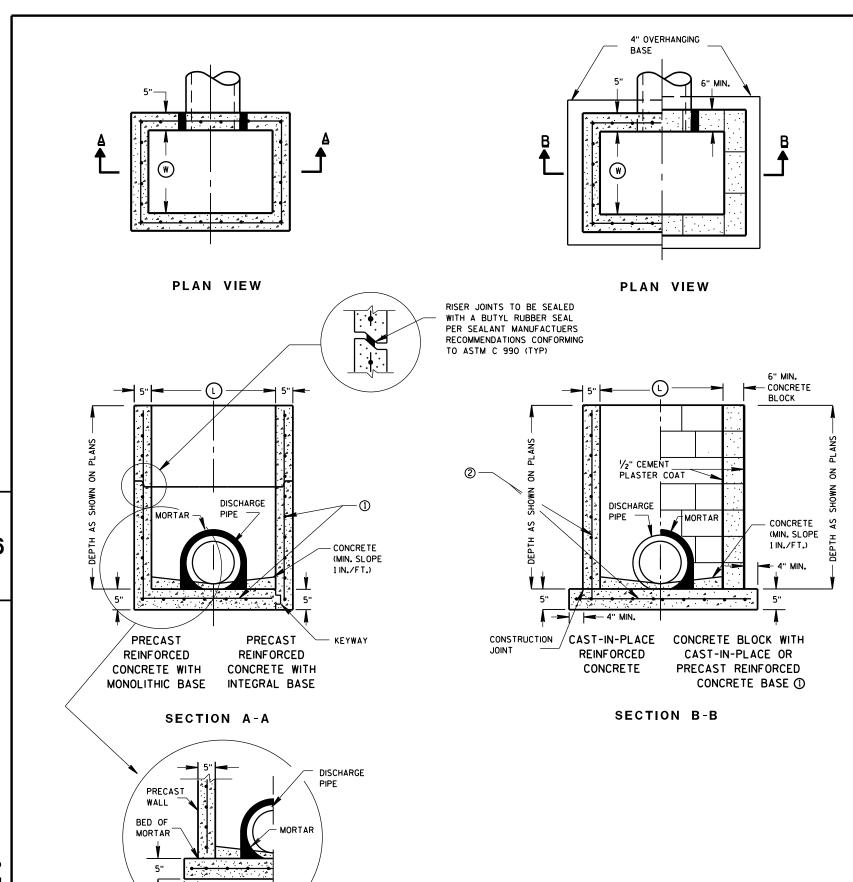
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
6/5/2012	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWA	ENGINEER

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# **GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

- 4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
- 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
- OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

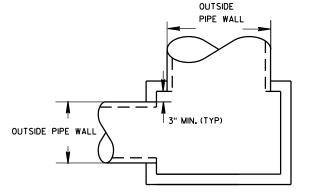
- 1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

# INLET COVER MATRIX

	INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	s	т	v	WM
		WIDTH (W) (FT)	LENGTH (L) (FT)									
	2X2-FT	2	2	X	х				Х		х	
ſ	2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
[	2X3-FT	2	3					Х				
	2.5X3-FT	2.5	3				Х					

## PIPE MATRIX

	MAXIMUM II Diam	NSIDE PIPE IETER
INLET SIZE	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** 6/5/2012 DATE

FHWA

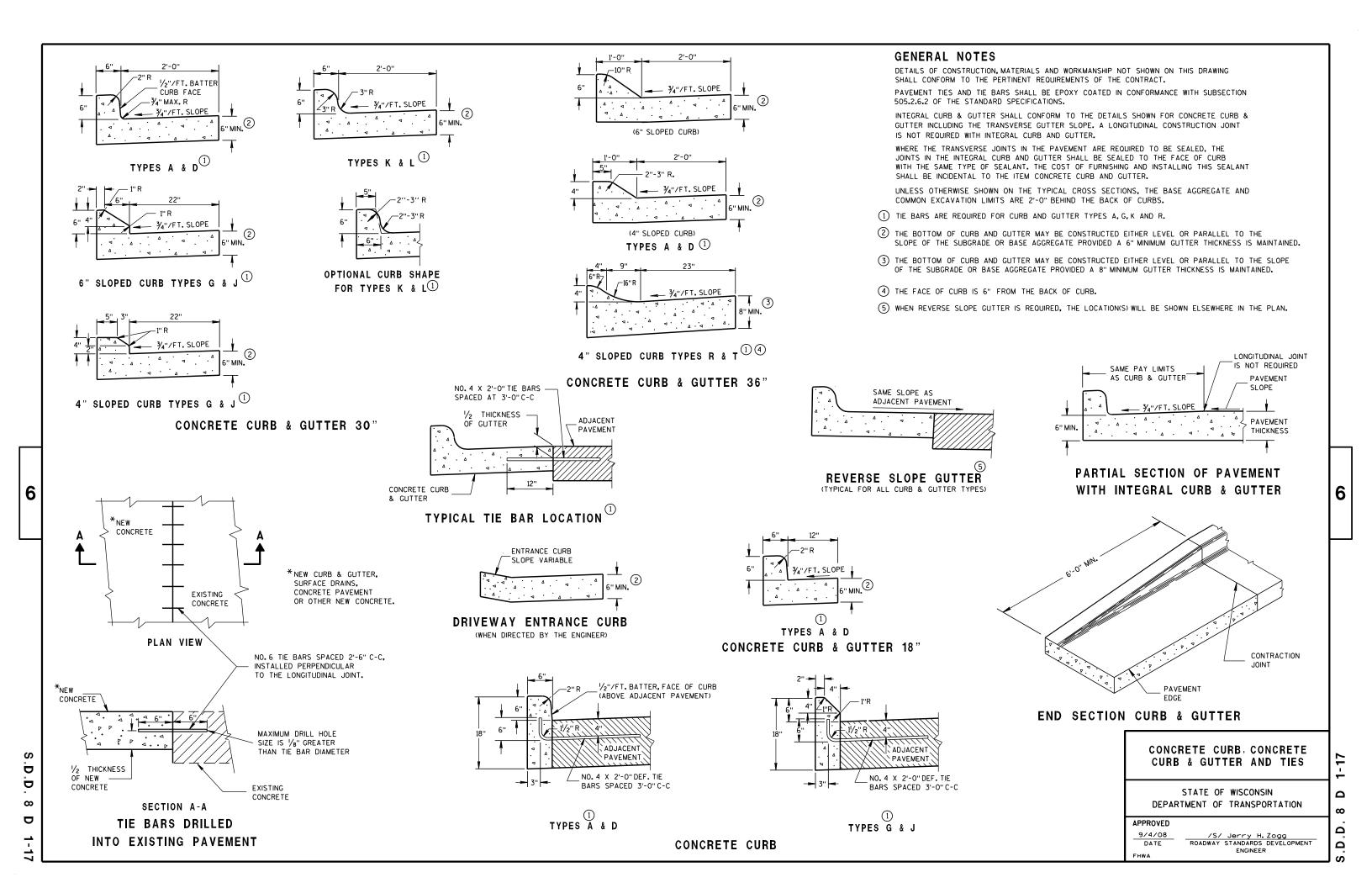
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

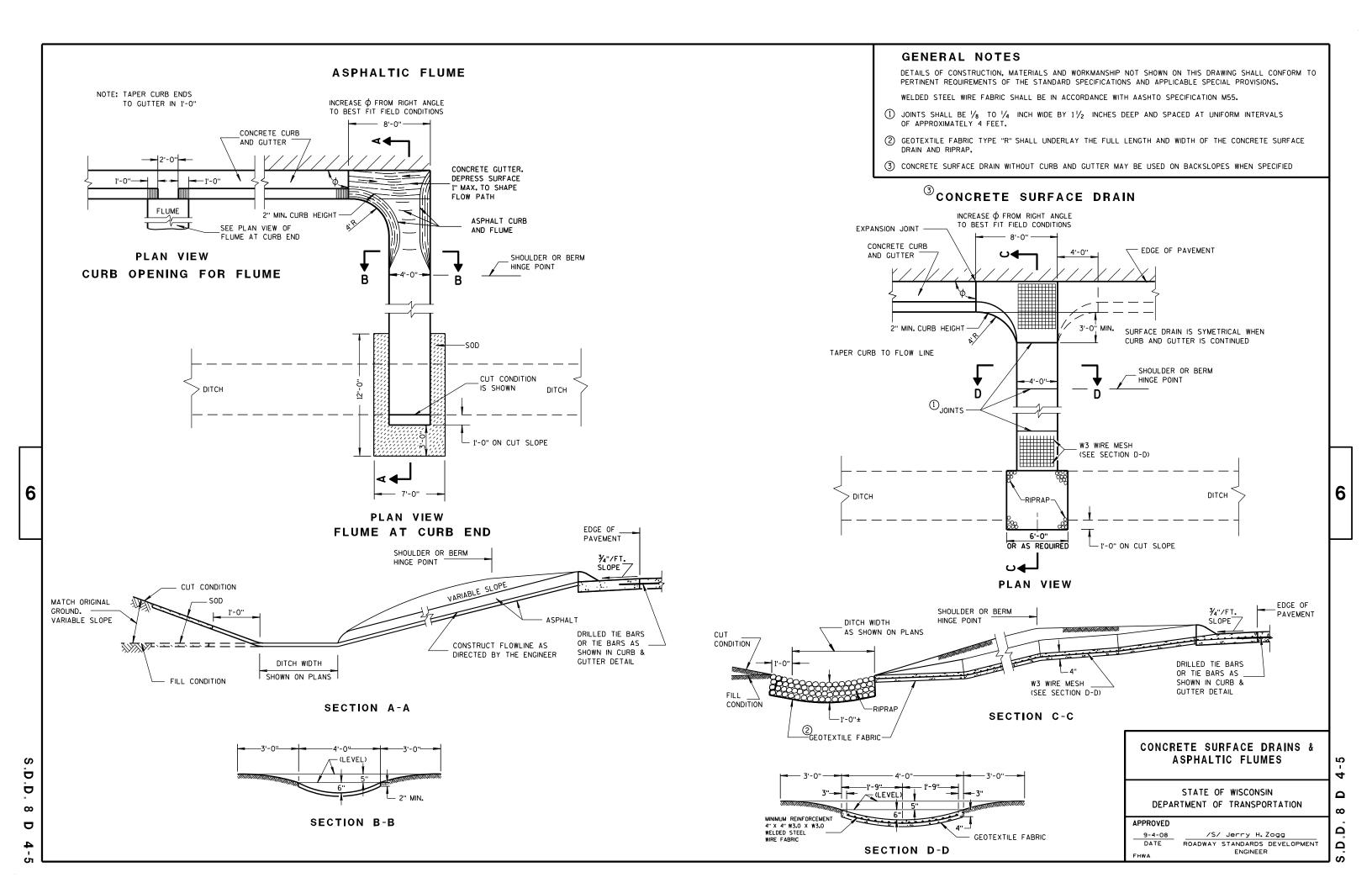
ENGINEER

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

SEPARATE PRECAST REINFORCED

CONCRETE BASE OPTION



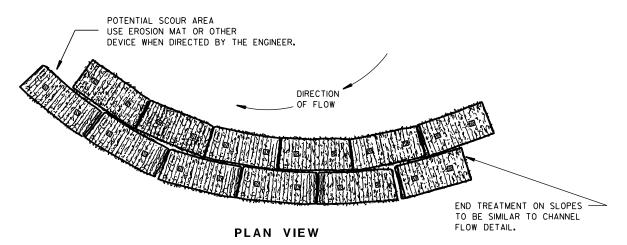


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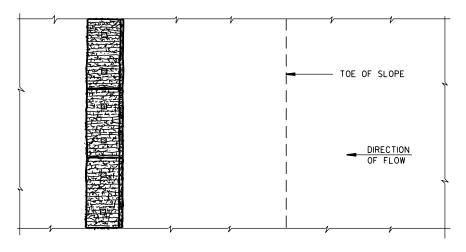
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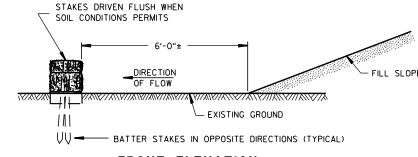
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



# **PLAN VIEW**



# FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

# TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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# TYPICAL APPLICATION OF SILT FENCE

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## PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



### **GENERAL NOTES**

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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INLET PROTECTION, TYPE A

### **GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



### INLET PROTECTION, TYPE C (WITH CURB BOX)

### **INSTALLATION NOTES**

### TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

### TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

### INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

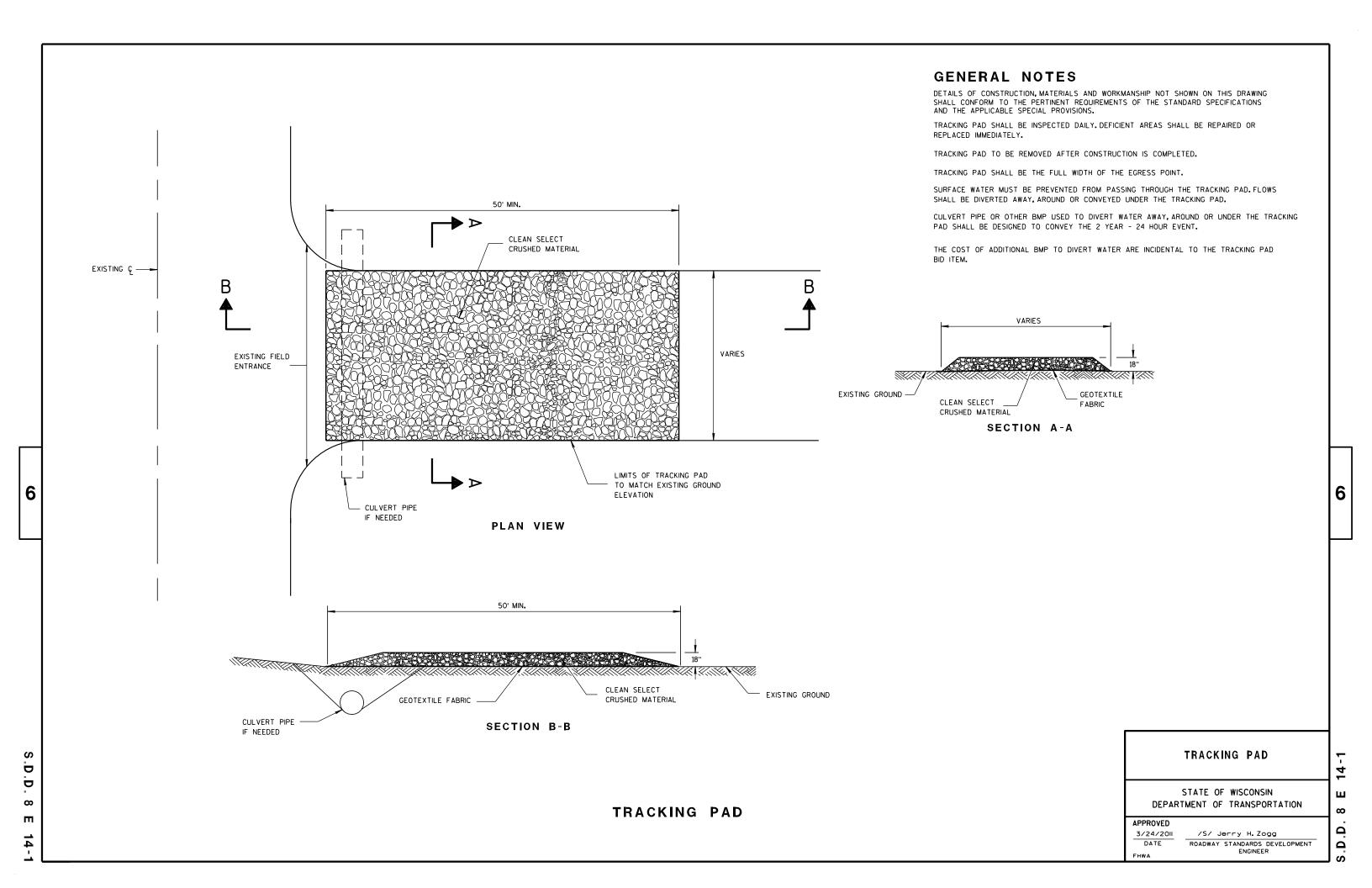
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.			DIMENS	SIONS (II	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Lį	L <sub>2</sub>	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	<b>.</b> 075	10	13	6	41	18	371/4	48	$2\frac{1}{2}$ to 1	1Pc.
30	.079	<b>.</b> 075	12	16	8	51	18	521/4	60	$2\frac{1}{2}$ to 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	$2\frac{1}{2}$ to 1	2 Pc.
42	.109	<b>.</b> 105	16	22	11	69	24	75%	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> +o 1	3 Pc.
54	.109	<b>.</b> 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	_		114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×		18	45	12	87	_	_	138	1/2+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_		150	11/2+0 1	3 Pc.

\* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS								
PIPE		DIMENSIONS (Inches)							
DIA.	Т	A	В	С	D	E	G	APPROX. SLOPE	
12	2	4	24	48 1/8	721/8	24	2	3 to 1	
15	21/4	6	27	46	73	30	21/4	3 to 1	
18	21/2	9	27	46	73	36	21/2	3 to 1	
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1	
24	3	91/2	431/2	30	731/2	48	3	3 to 1	
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1	
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1	
36	4	15	63	34¾	97¾	72	4	3 to 1	
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	51/2		65	* ** 33 <sup>1</sup> / <sub>4</sub> -35	* 98 <sup>1</sup> / <sub>4</sub> - 100	90	51/2	2% to 1	
60	6	* ** 30-35	60	39	99	96	5	2 to 1	
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1	
72	7	* ** 24-36	78	21	99	108	6	2 to 1	
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1	
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1	
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1	

\*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

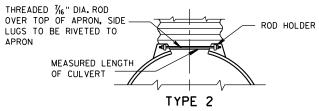
END SECTION CONNECTOR STRAP LUG

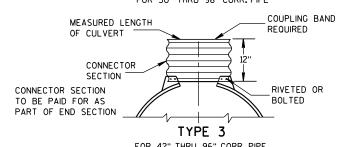
1" WIDE, 12 GA. (0.109"

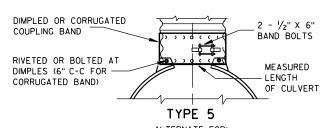
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





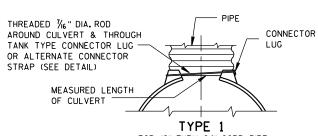


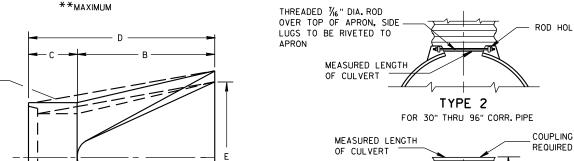
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

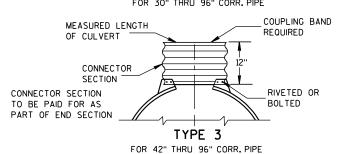
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

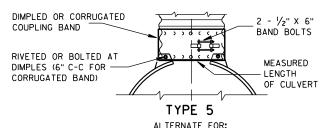
CONNECTION DETAILS 1, 2 OR 5.

# ALTERNATE FOR TYPE 1 CONNECTION







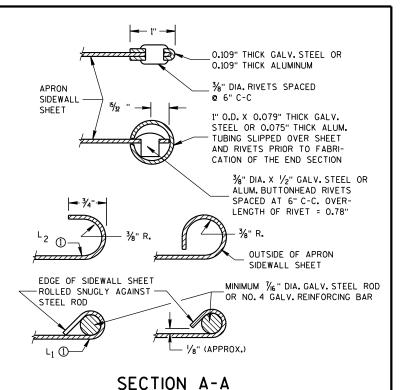


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



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CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

# APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

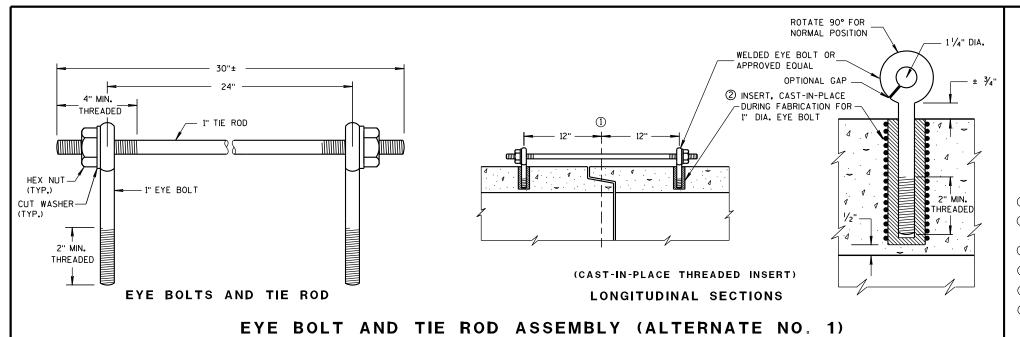
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



### **GENERAL NOTES**

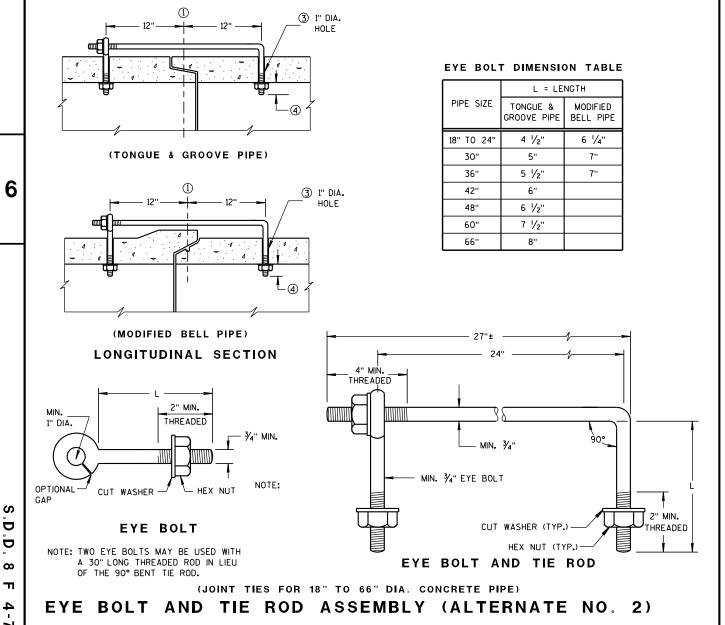
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

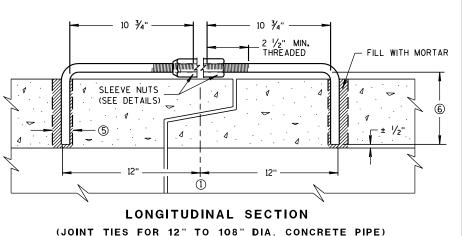
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak L}$  OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN  $rac{1}{2}$  INCH OF THE INNER SURFACE OF THE PIPE.

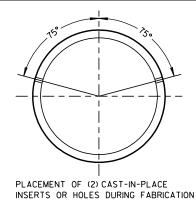


D

# ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

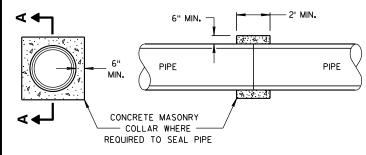


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

### TRANSVERSE SECTION



SECTION A-A

### CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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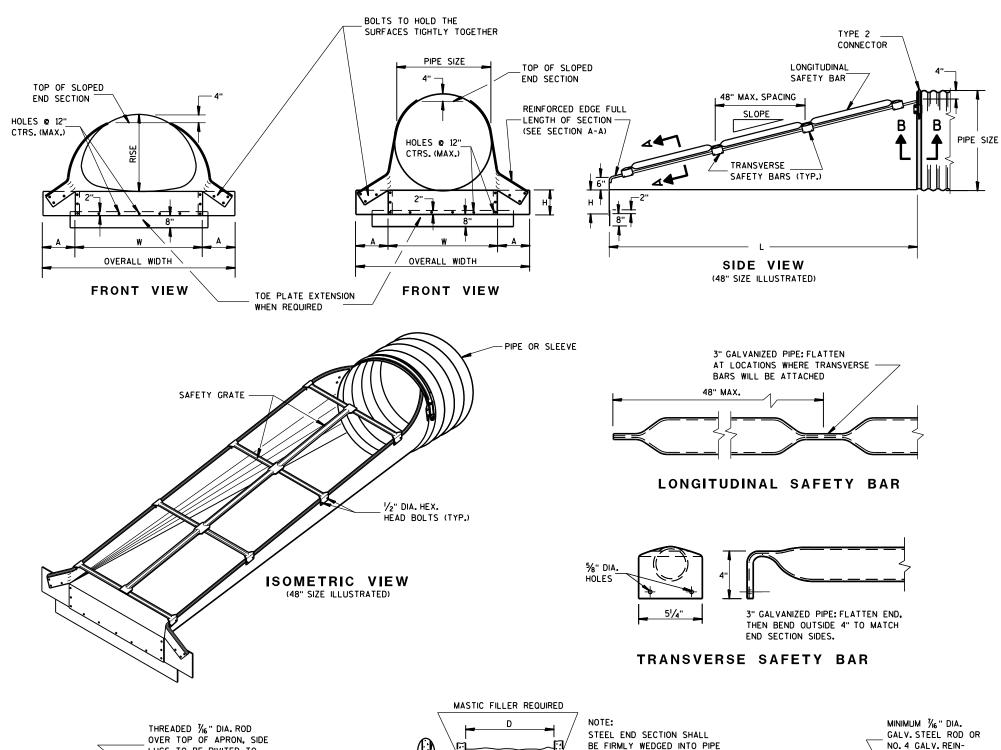


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### **GENERAL NOTES**

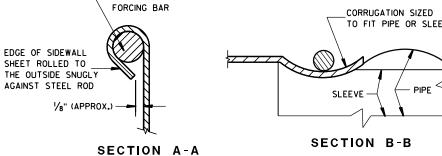
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

	STEEL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS									
PIPE	MIN.	THICK.	D	IMENSIO	NS (Inc	:hes)		L DIME	NSIONS	
DIA. (IN.)	IN.	GAGE	A	н	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300

EQUIV.	INC	HES	MIN.	THICK.	D	IMENSIO	NS (Inc	:hes)	L DIMENSIONS			
DIA. (IN.)	SPAN	RISE	IN.	GAGE	A	Н	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222



STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg 6/5/2012 ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

OVER TOP OF APRON, SIDE LUGS TO BE RIVITED TO ROD HOLDER MEASURED LENGTH OF CULVERT

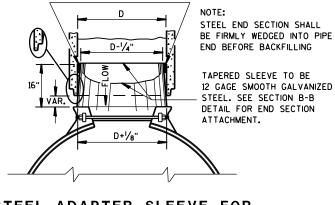
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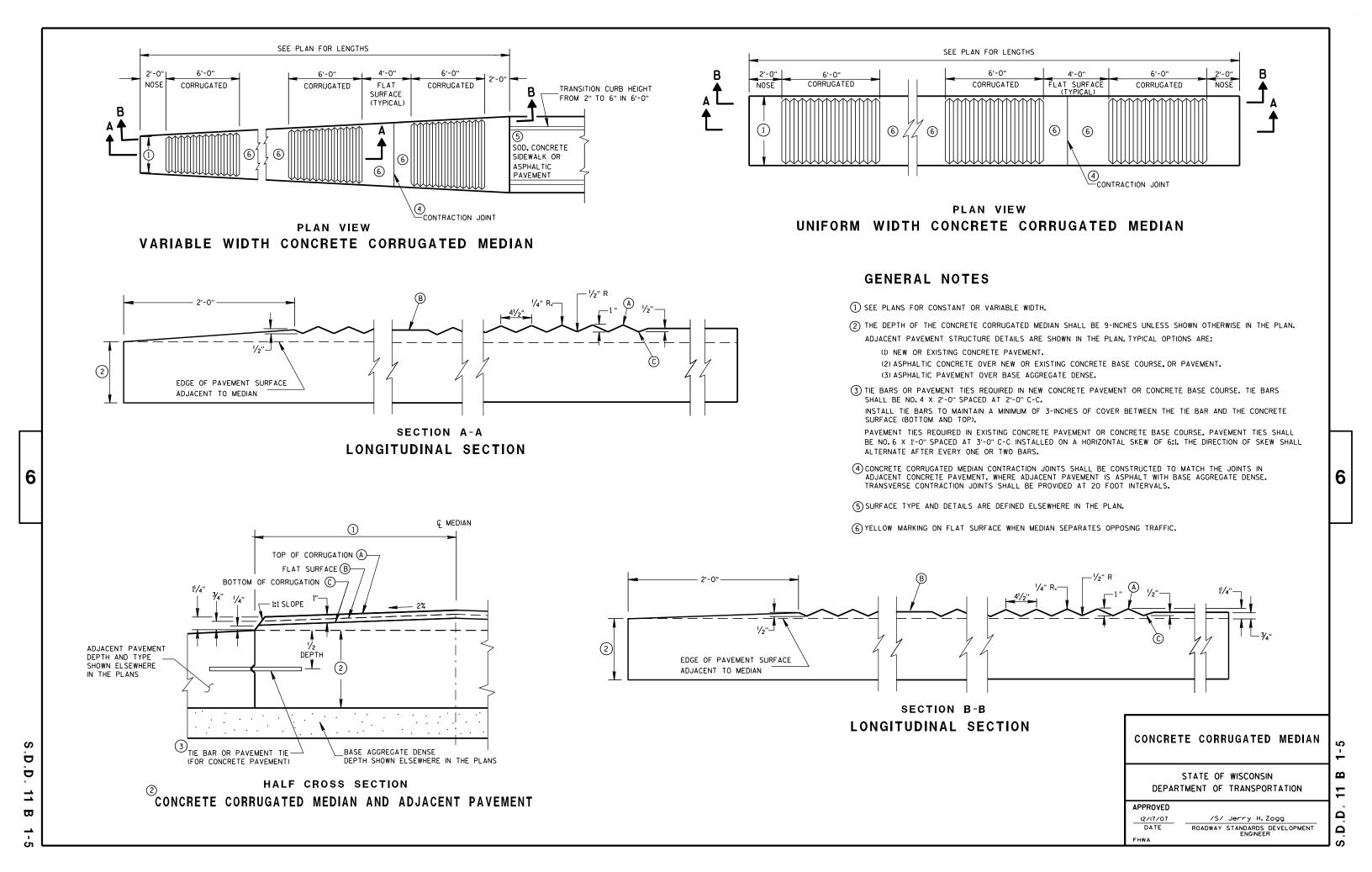
П

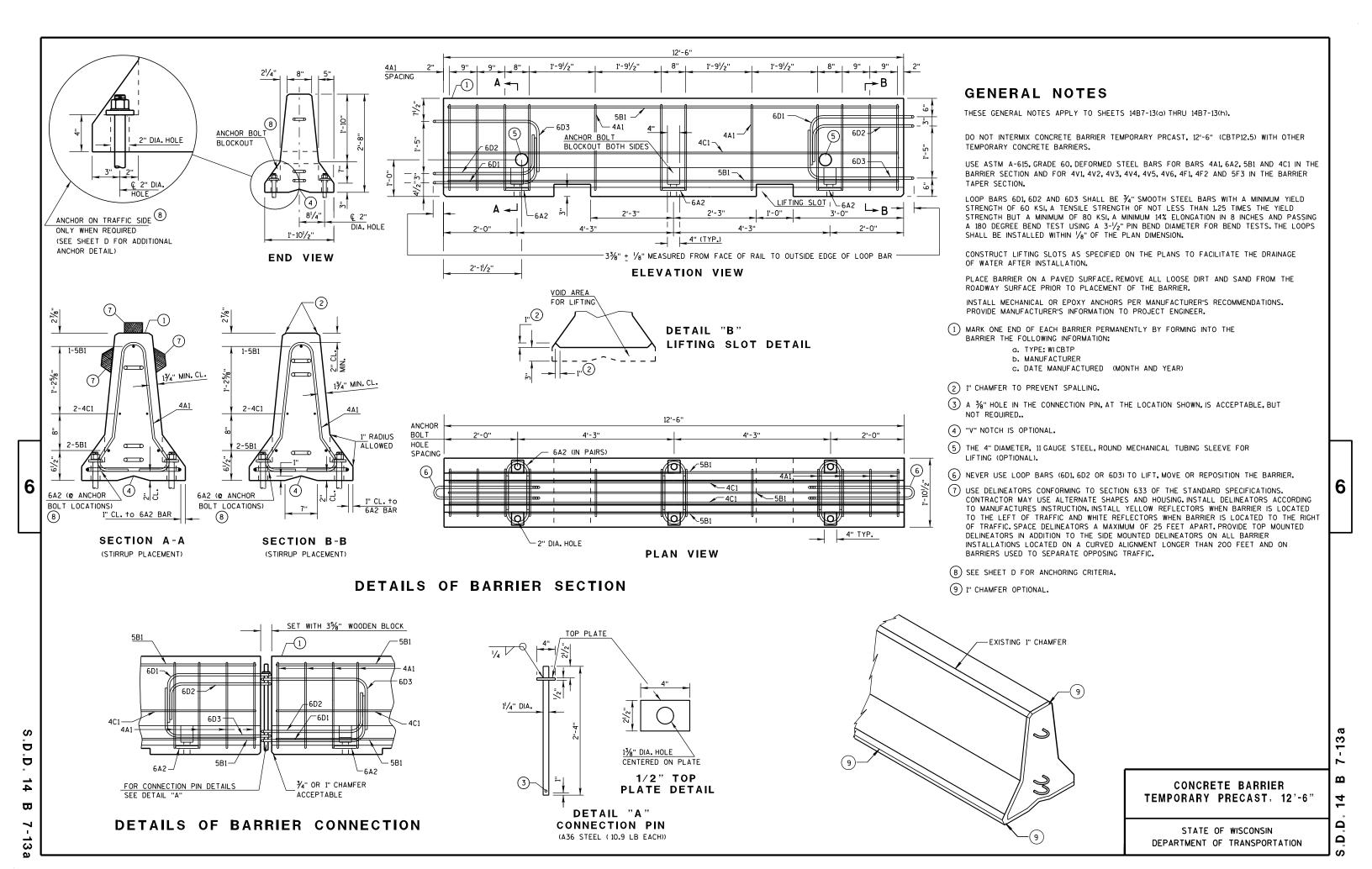
TYPE 2 CONNECTOR DETAIL

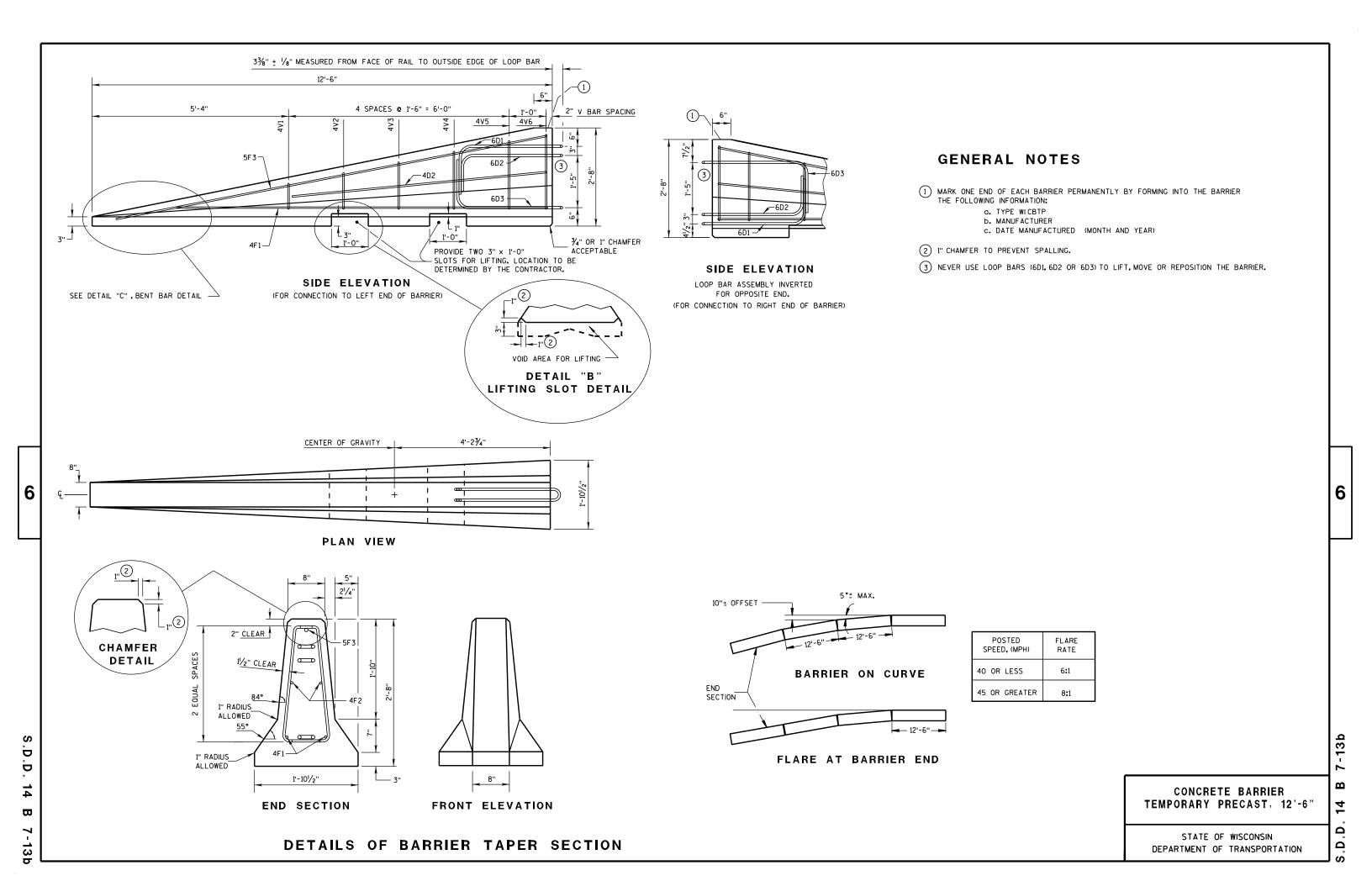


STEEL ADAPTER SLEEVE FOR **CONCRETE PIPE** 

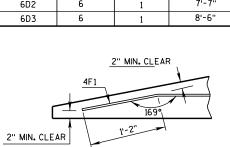
TO FIT PIPE OR SLEEVE





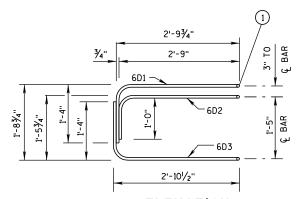


BAR	BAR SIZE	NO. OF BARS	LENGTH FT.						
4V1	4	2	1'-11"						
4V2	4	2	2'-2"						
4V3	4	2	2'-6"						
4V4	4	2	2'-9"						
4V5	4	2	3'-2"						
4V6	4	2	3'-4"						
4F1	4	2	12'-0"						
4F2	4	2	7'-6"						
5F3	5	1	11'-9''						
L	LOOP ASSEMBLY								
6D1	6	1	8'-5"						
6D2	6	1	7'-7''						
6D3	6	1	8'-6"						

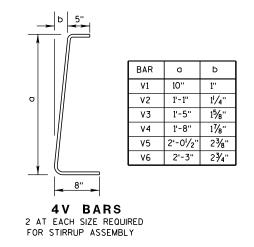


DETAIL "C"

BENT BAR DETAIL





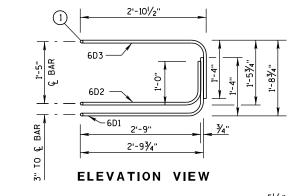


TAPER BARRIER SECTION

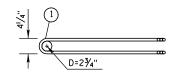
# BARRIER SECTION

**BILL OF MATERIALS** (PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

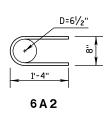


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

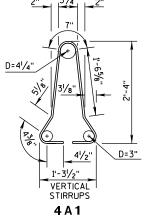


PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)



**GENERAL NOTES** 



# **BARRIER SECTION**

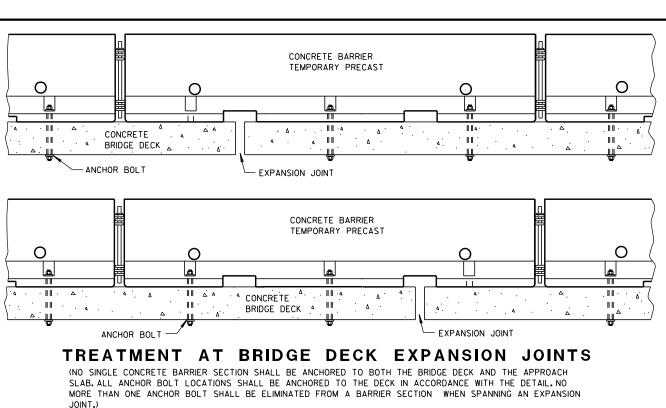
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

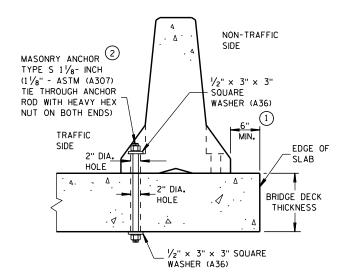
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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### THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

CONCRETE BARRIER TEMPORARY PRECAST MASONRY ANCHOR TYPE S 1 1/8- INCH . 🗸  $(1\frac{1}{8}" - ASTM (A307)$ ADHESIVE BONDED ANCHOR NON-TRAFFIC WITH HEAVY HEX NUT SIDE AND 1/2" X 3" X 3" SQUARE WASHER (A36)) TRAFFIC SIDE **EMBEDMENT** ablaBRIDGE DECK, APPROACH SLAB OR CONCRETE PAVEMENT

REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

### **GENERAL NOTES**

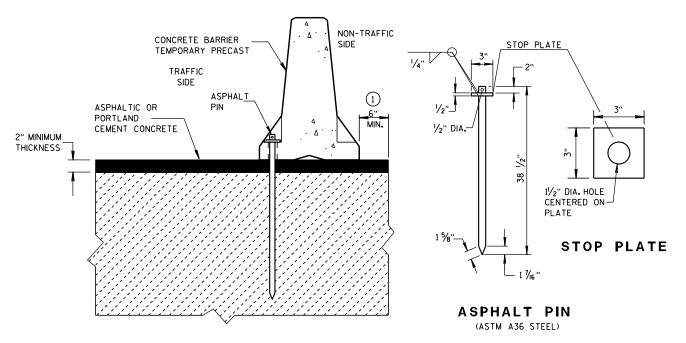
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

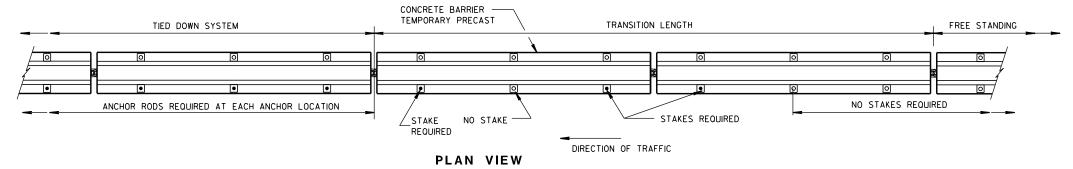
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CON-CRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



### STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

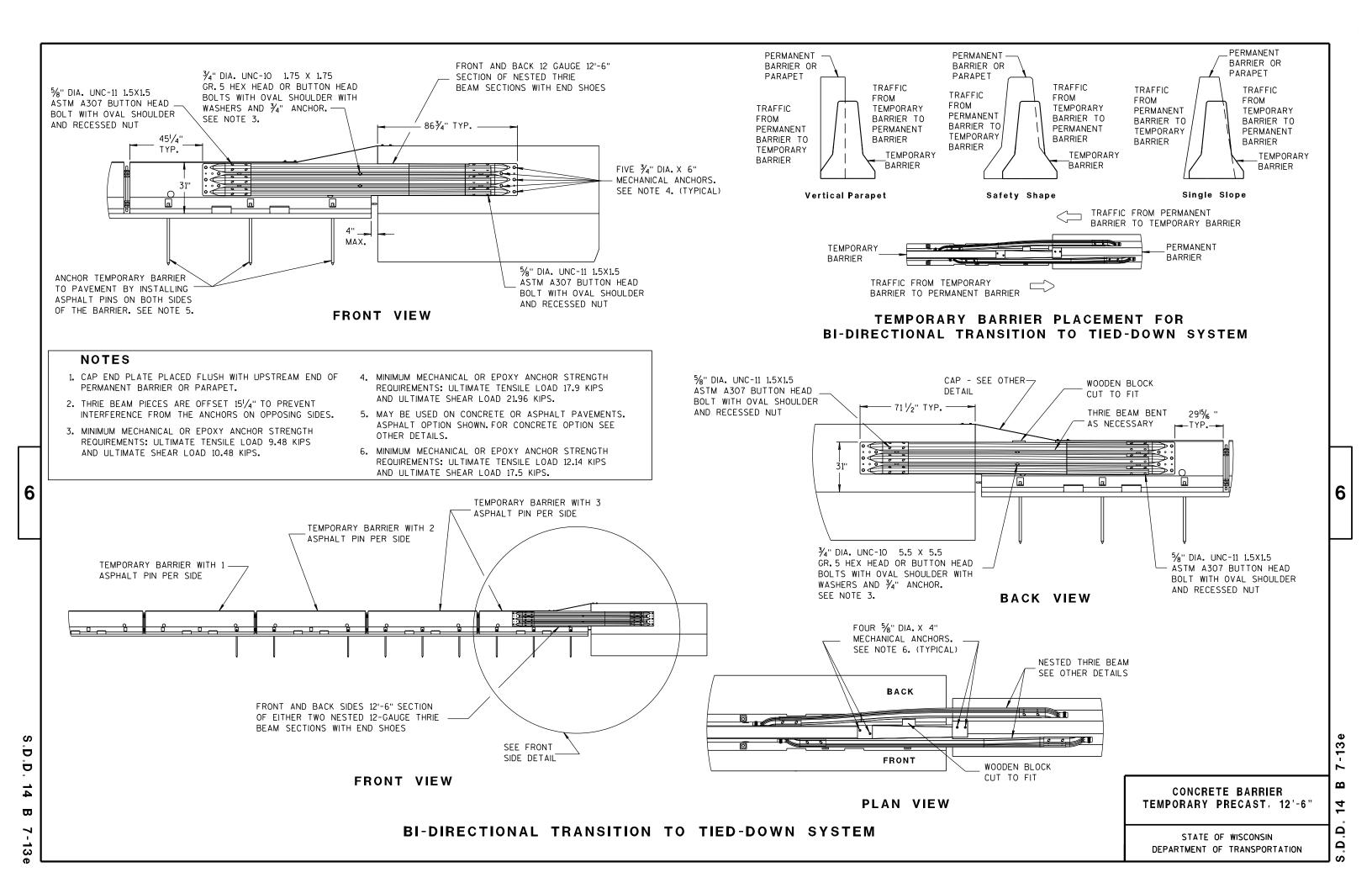
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

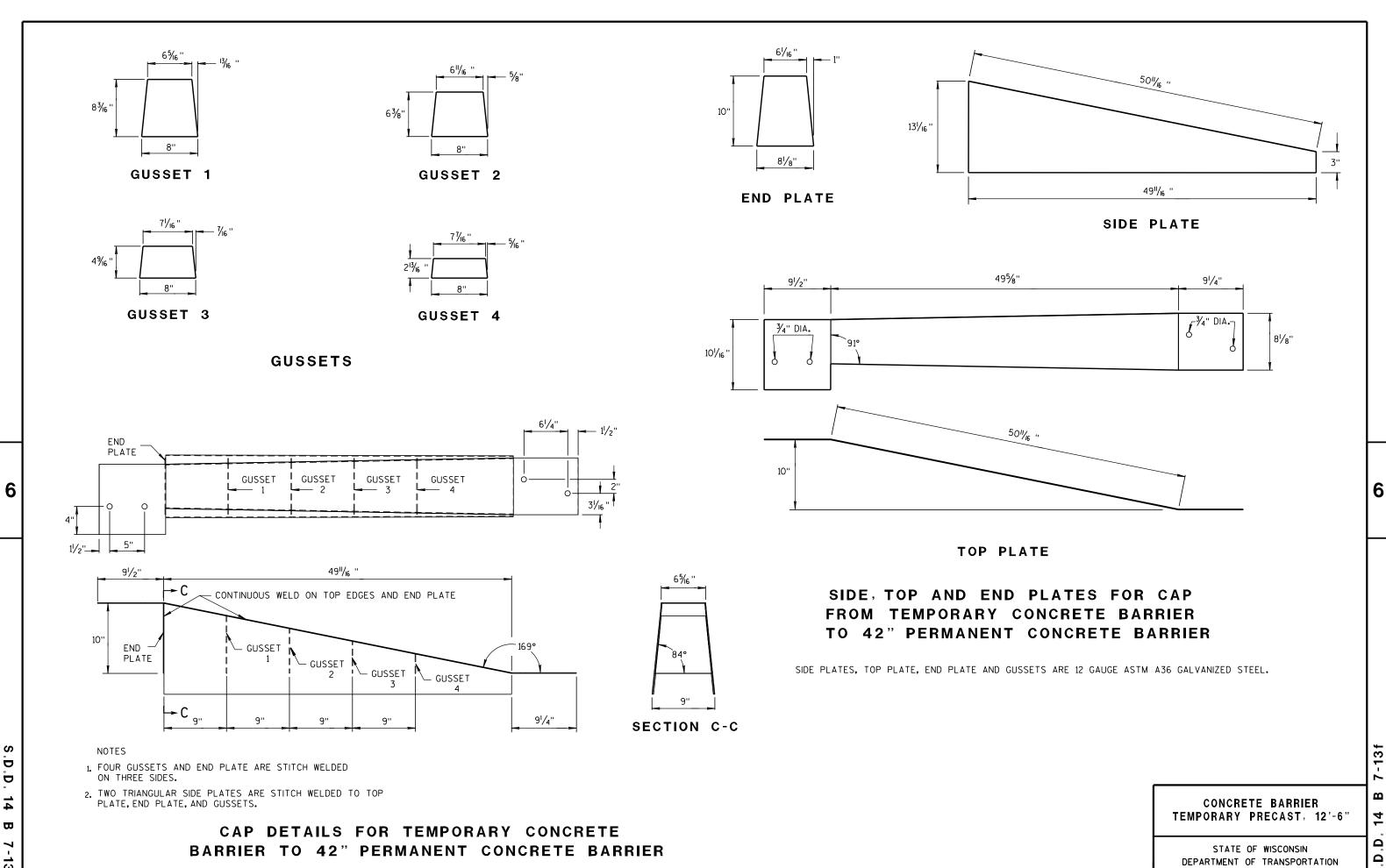
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

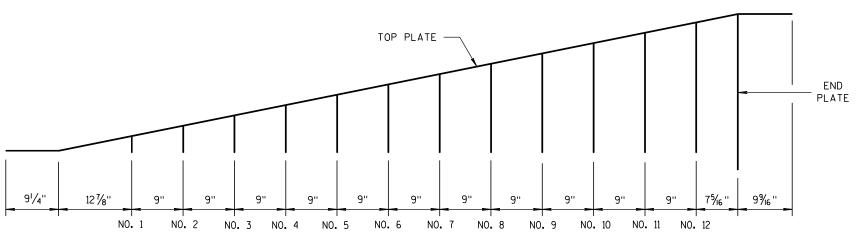
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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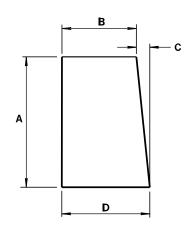






**GUSSET LOCATION** 

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

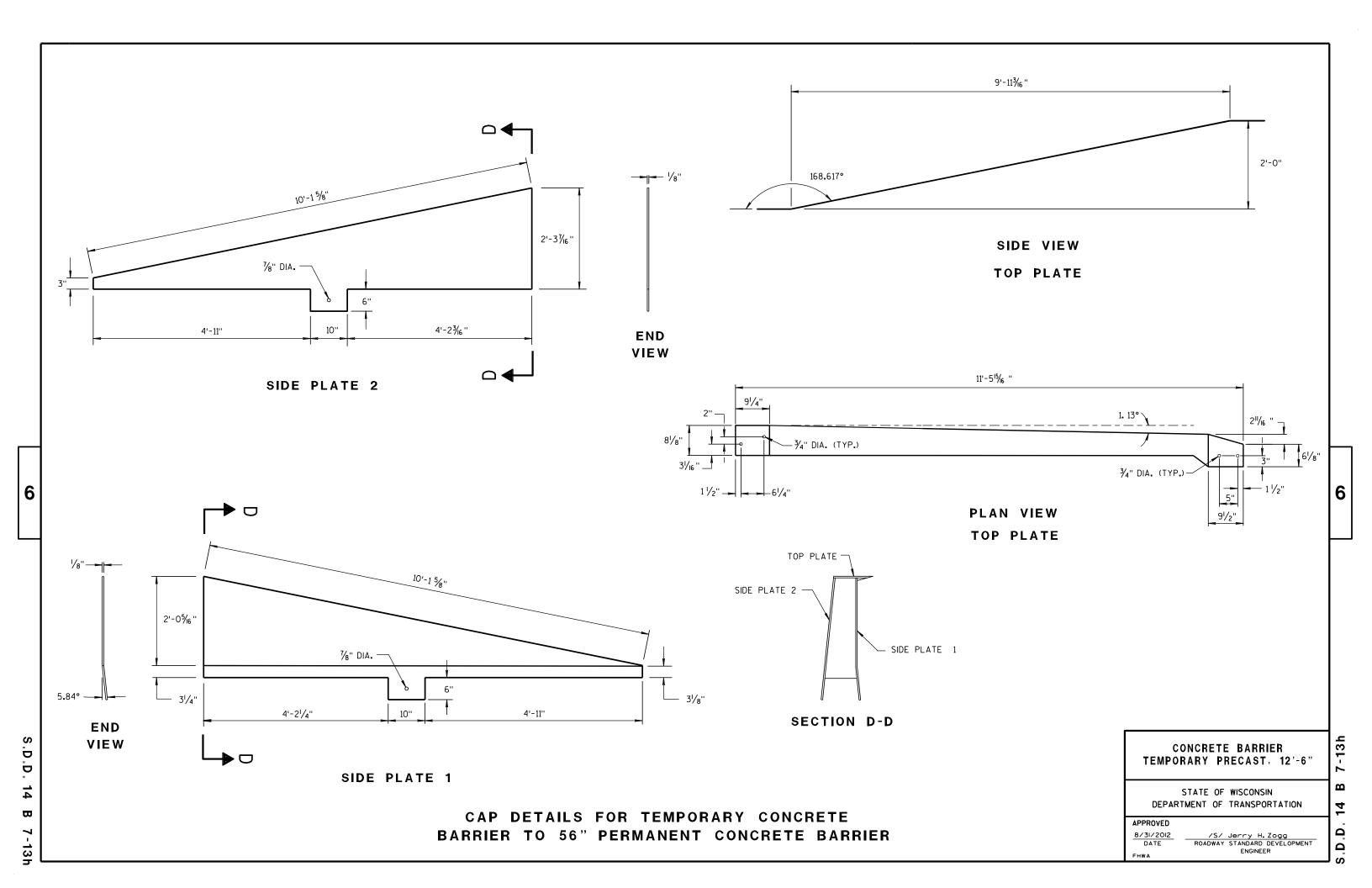
GUSSET DIMENSIONS									
GUSSET NO.	Α	В	С	D					
1	2 1/8"	73/4"	1/4"	8					
2	4"/16 "	7%6"	1/2"	8					
3	61/2"	73/8"	11/16 ''	81/16 "					
4	85/6"	7¾ <sub>6</sub> "	7/8"	81/16"					
5	101/8"	7''	1 1/16 "	8½ <sub>6</sub> "					
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> / <sub>16</sub> "	1 1/4"	81/16 "					
7	13¾"	65⁄8''	1 7/6"	81/16"					
8	15% "	67∕ <sub>16</sub> ''	1 % "	81/16 ''					
9	173/8"	6 <sup>1</sup> /4"	1 13/16 "	81/16"					
10	193/6"	6½ <sub>6</sub> "	1 15/16 ''	81/16"					
11	21"	57/8"	23/6"	81/16"					
12	2213/16 "	511/16 "	25/6"	81/16"					

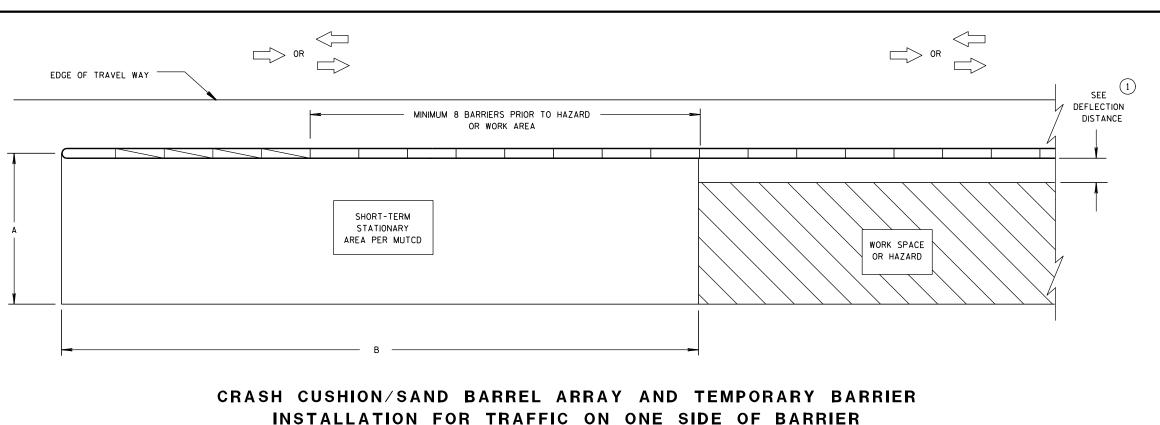
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





# DIMENSION A TABLE (2)

		DIMENSION A		
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT	
FREEWAY/EXPRESSWAY	ALL	15	20	
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15	
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10	
AADT LESS THAN 1,500	ALL	8	10	

# DIMENSION B TABLE 2

POSTED Speeds	DIMENSION B
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

DIRECTION OF TRAVEL

SAND BARREL ARRAY

CRASH CUSHION OR

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY

BARRIER

**LEGEND** 

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω

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# CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

### GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

 $\Box$ 

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

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EDGE OF TRAVEL WAY -

EDGE OF TRAVEL WAY -

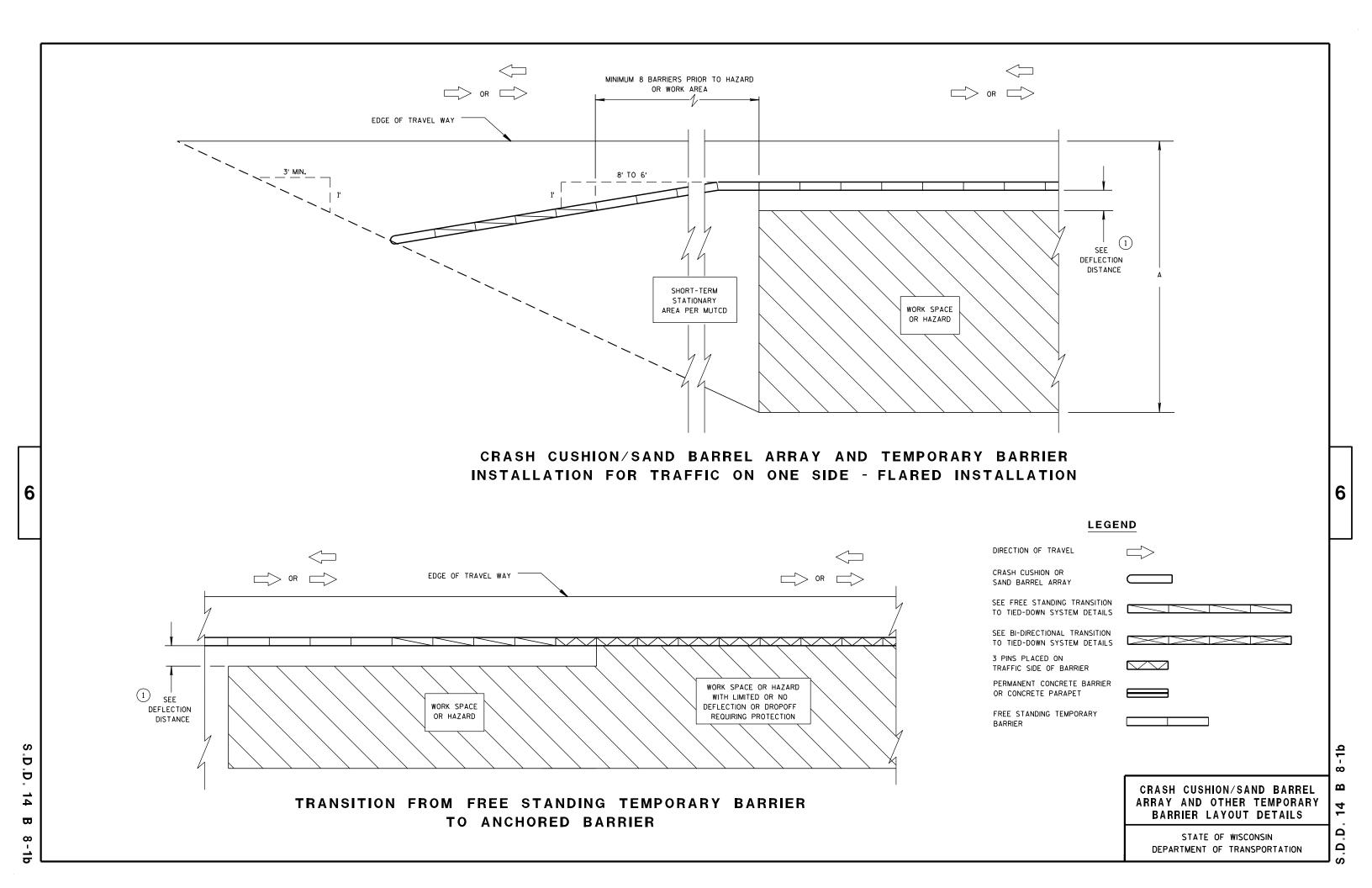
TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

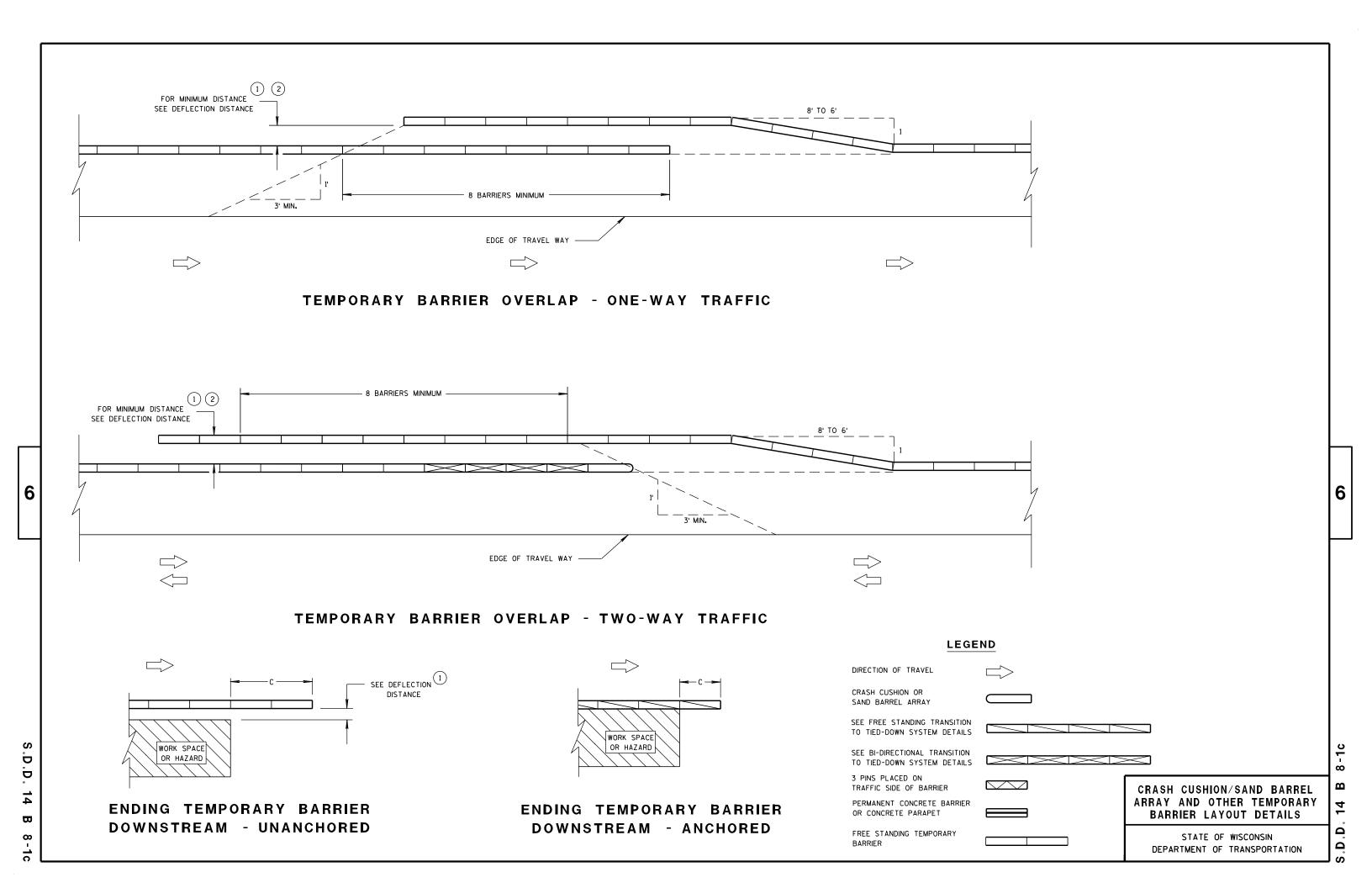
FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

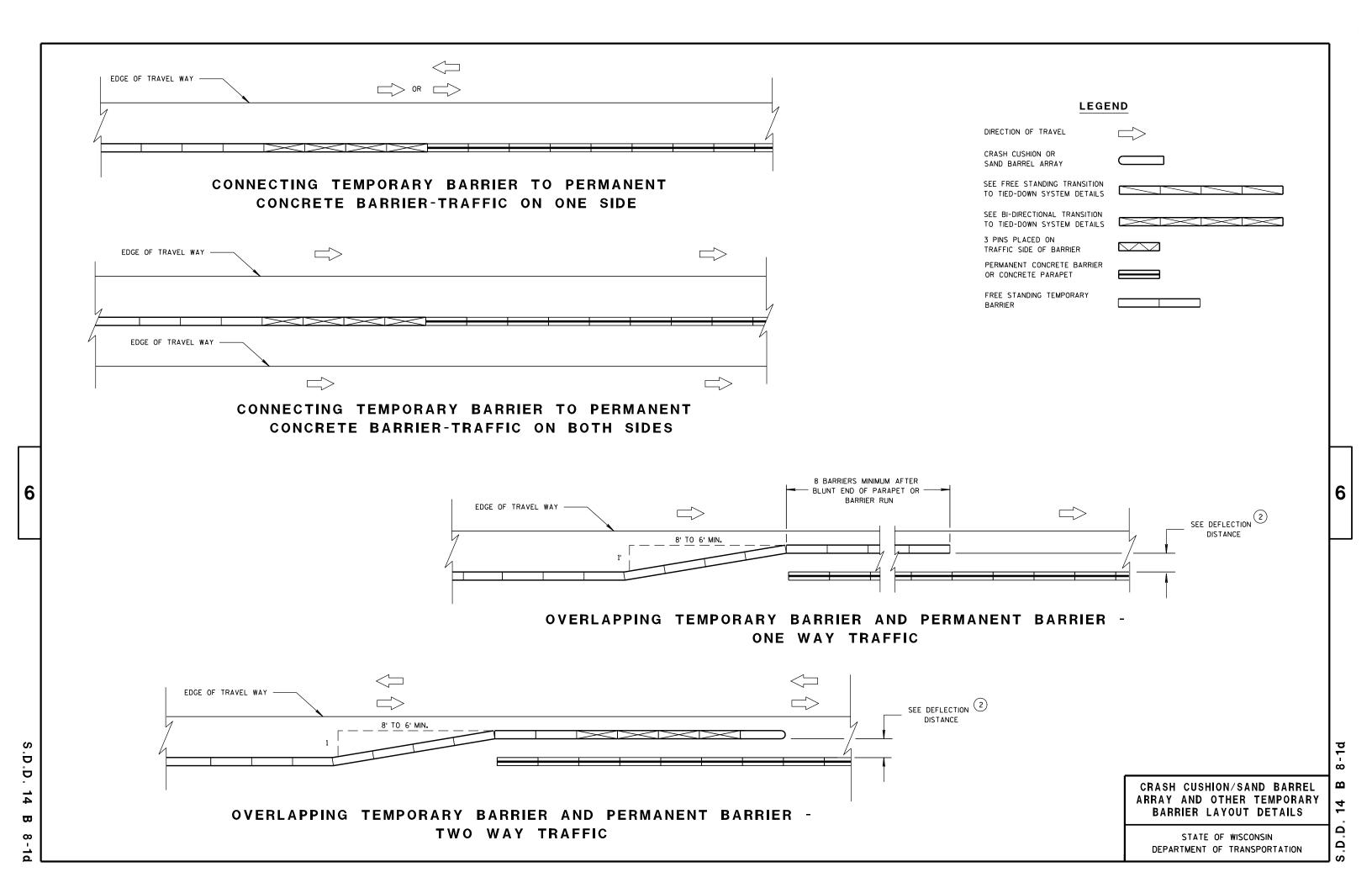
SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

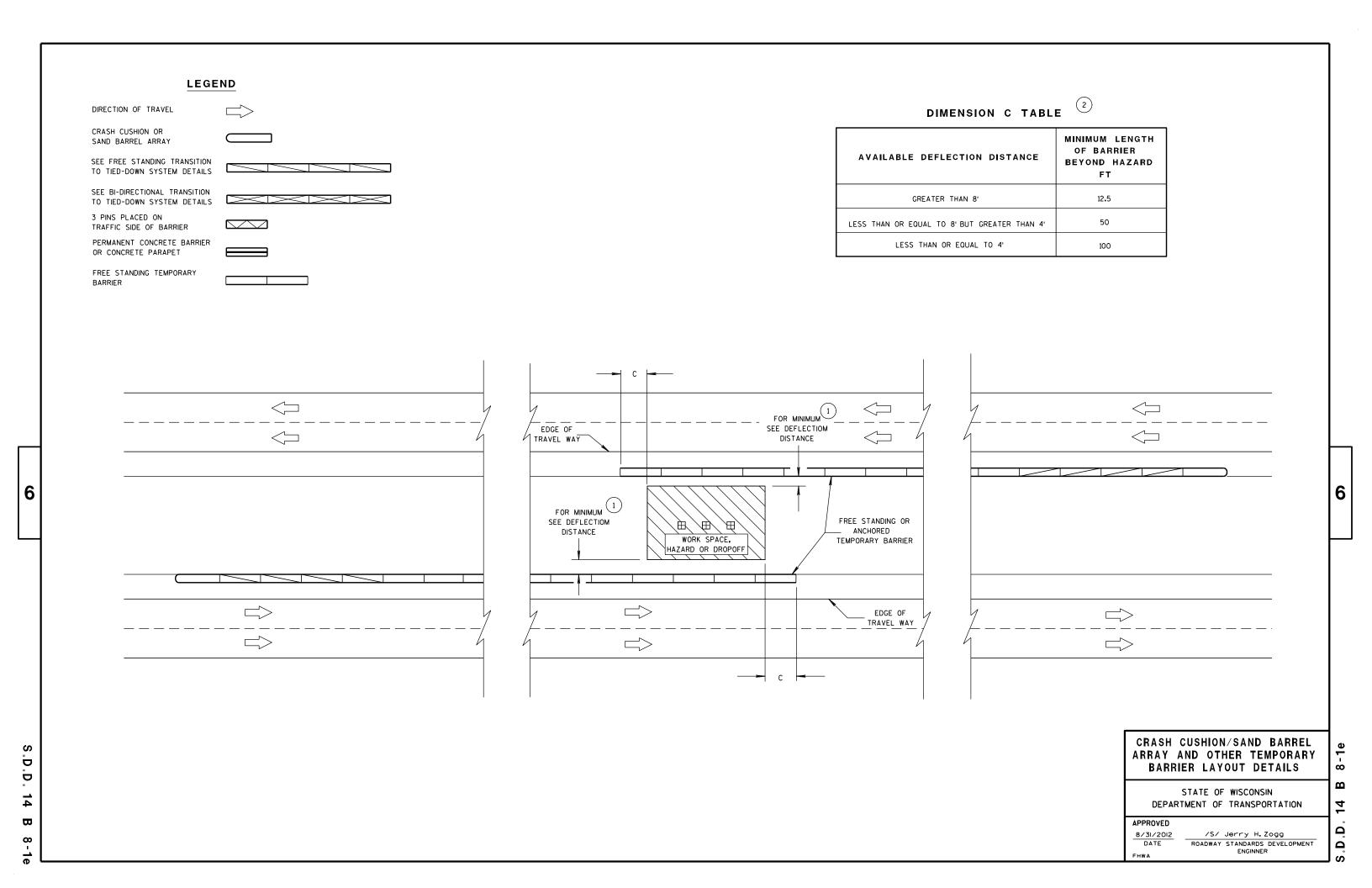
(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

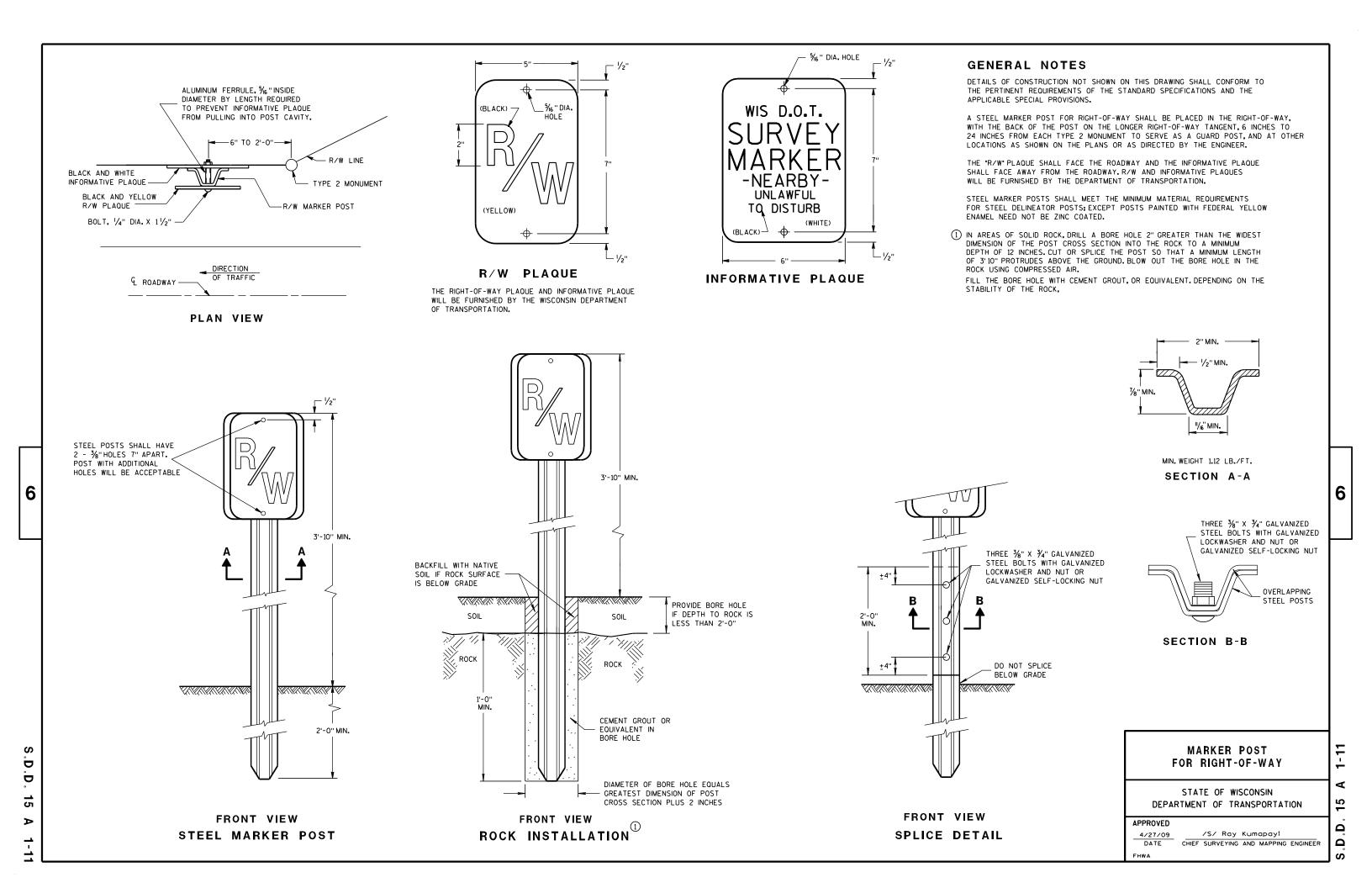
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.















### TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

### **GENERAL NOTES**

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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

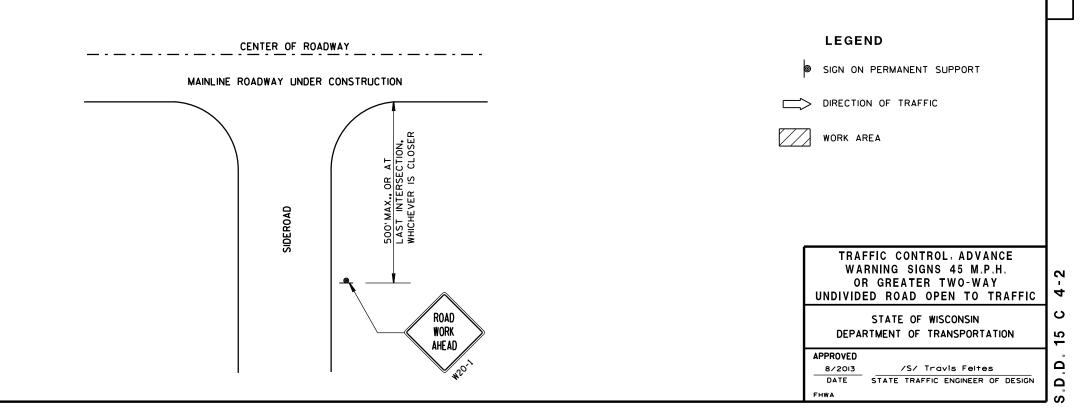
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

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

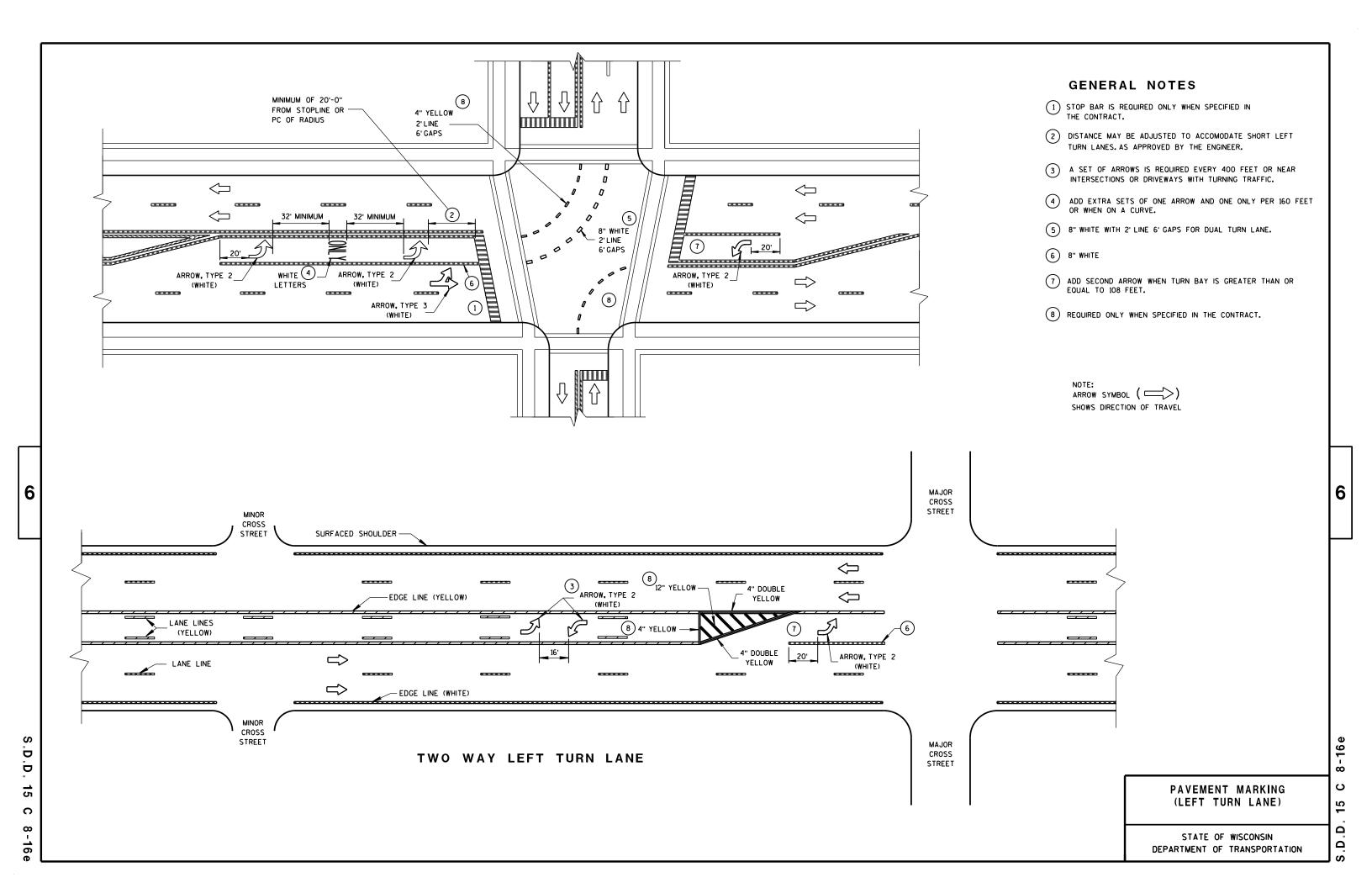
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

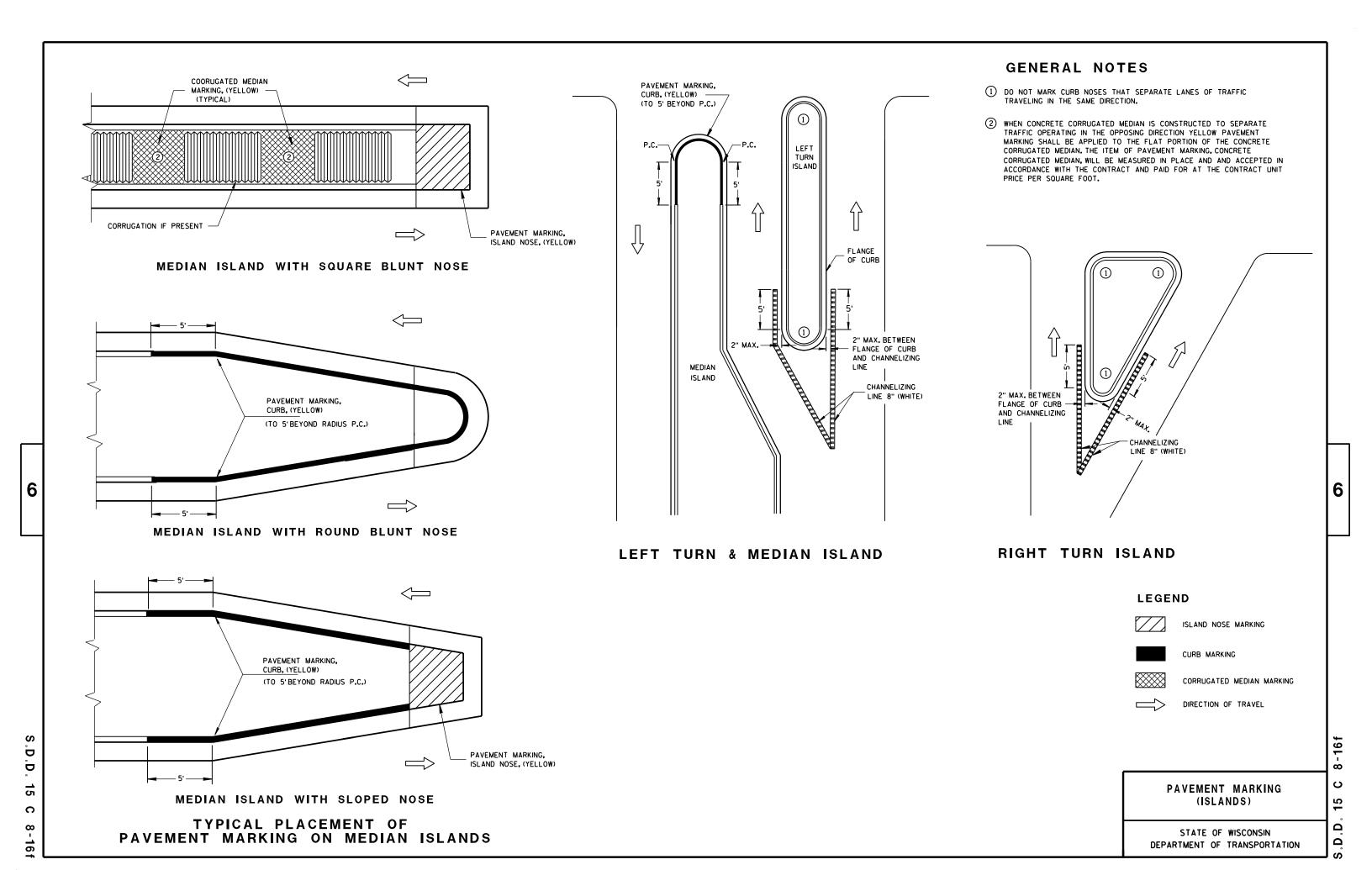
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

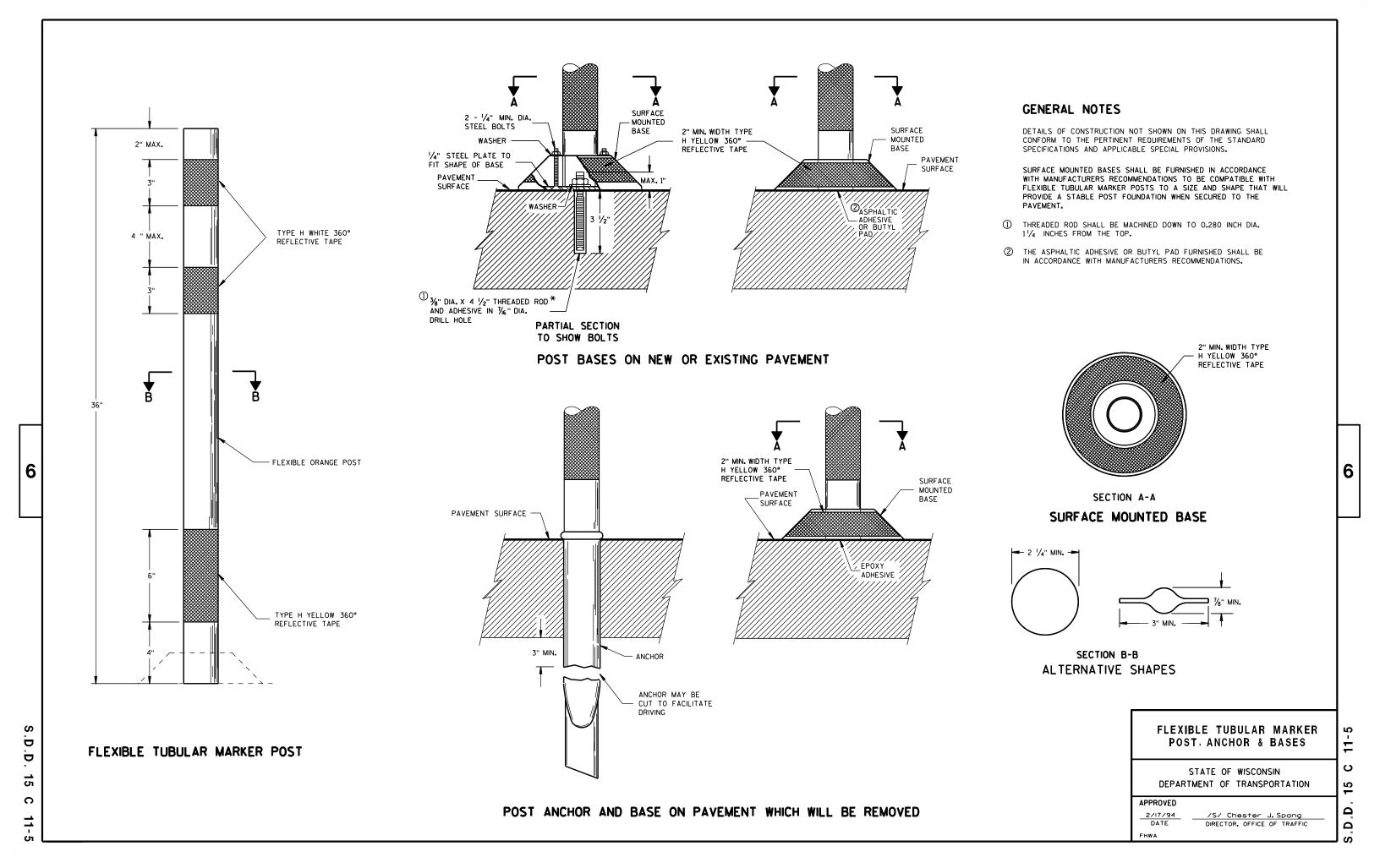


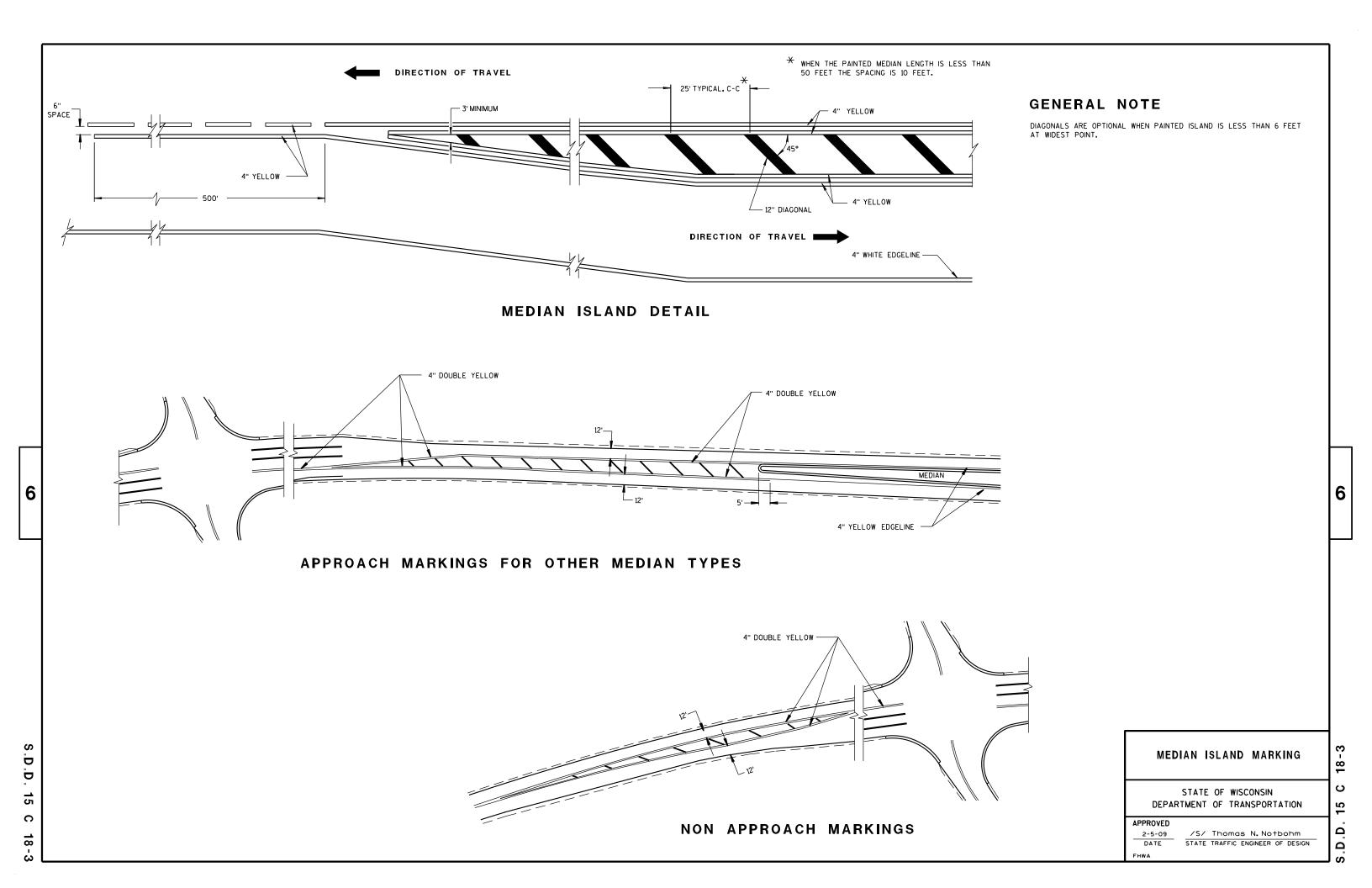


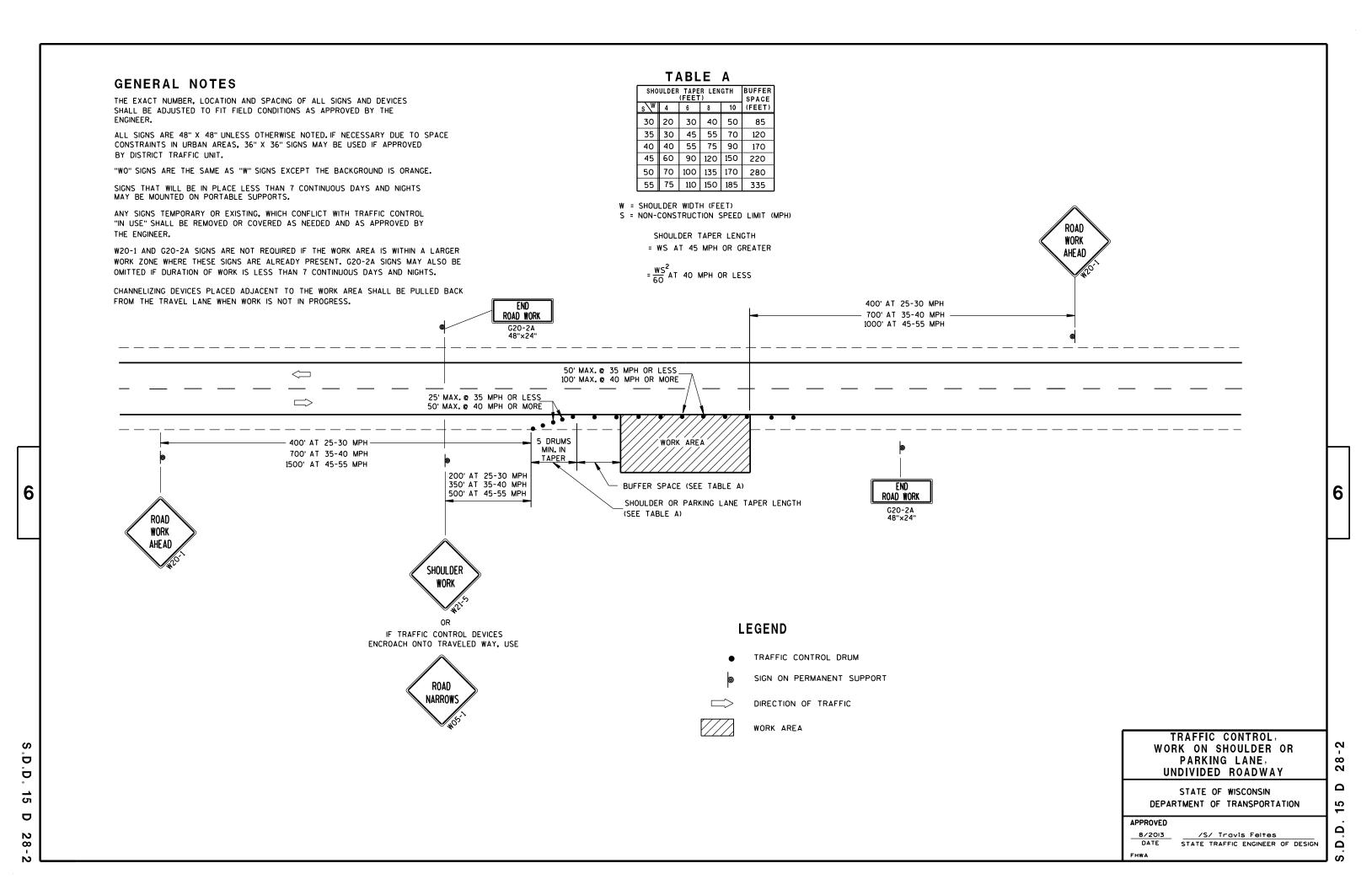










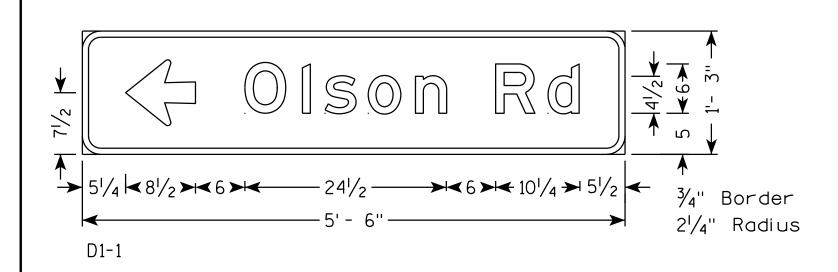


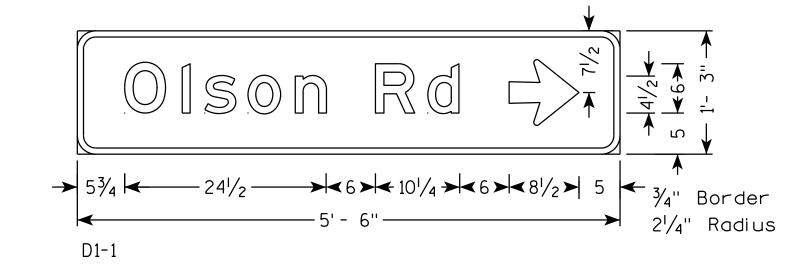


- 1. All Signs Type II Type H Reflective
- 2. Color:

  Background GREEN

  Message WHITE
- 3. Message Series E





PROJECT NO: 5310-01-73 HWY: USH 14 COUNTY: DANE PERMANENT SIGNING SHEET NO: **E** 

FILE NAME : C:\CAEFiles\Projects\tr\_d1\1131A114.dgn

PLOT DATE: 22-JAN-2014 11:31

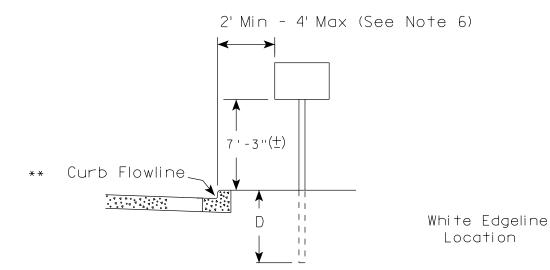
PLOT NAME :

PLOT SCALE: 11.675051:1.000000

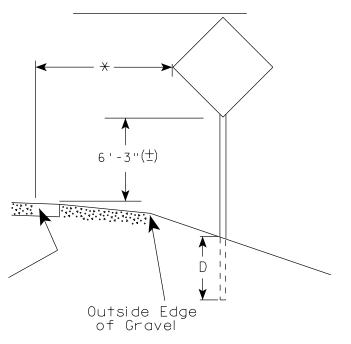
WISDOT/CADDS SHEET 42



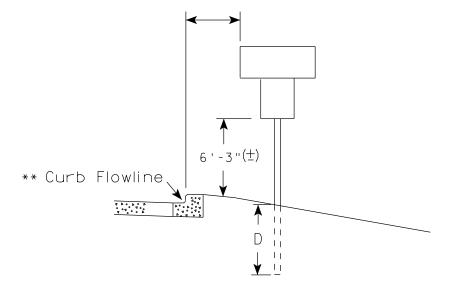
# urban area



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



White Edgeline
Location

Outside Edge
of Gravel

\*\* 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. Offset of signs is measured from the flow line.

HWY:

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

### GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3'' ( $\pm$ ) or 6'-3'' ( $\pm$ ) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' 3"  $(\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The  $(\pm)$  tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3"  $(\pm)$  or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

### POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
( Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauh
For State Traffic Engineer

DATE 9/30/13

\_\_\_\_

SHEET NO:

COUNTY:

JN I Y:

PLOT DATE: 30-SEP-2013 13:25

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



## ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

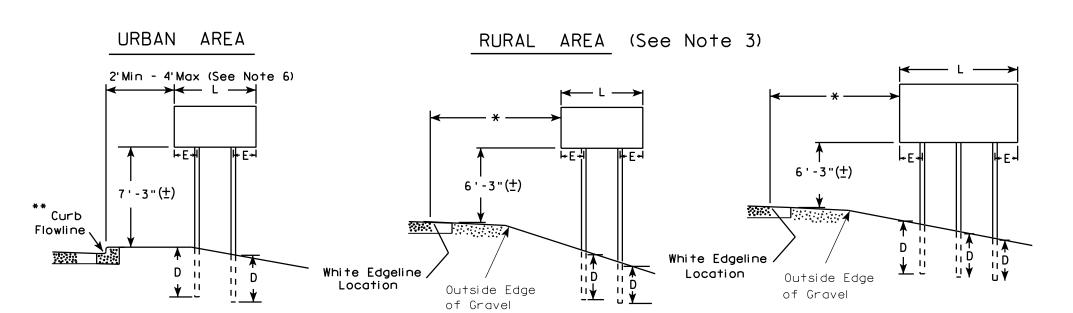
PLOT SCALE: 13.659812:1.000000

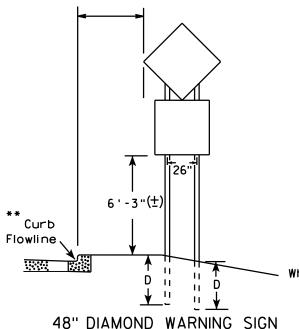
APPROVED

WISDOT/CADDS SHEET 42

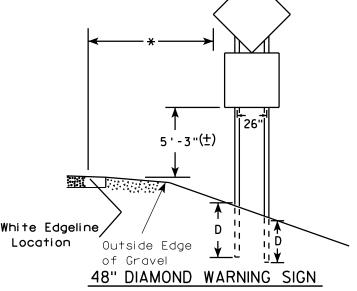
### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* 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. Offset of signs is measured from the flow line.
- $\star\star\star$  See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.





2' Min - 4' Max (See Note 6)



COUNTY:

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)				
	L	E			
<del>* * *</del>	Greater than 48" Less than 60"	12"			
	60" to 120"	L/5			

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)				
L	E			
Greater than 120" less than 168"	12"			

HWY:

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

### POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
( Sq. Ft.)	( Min )
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

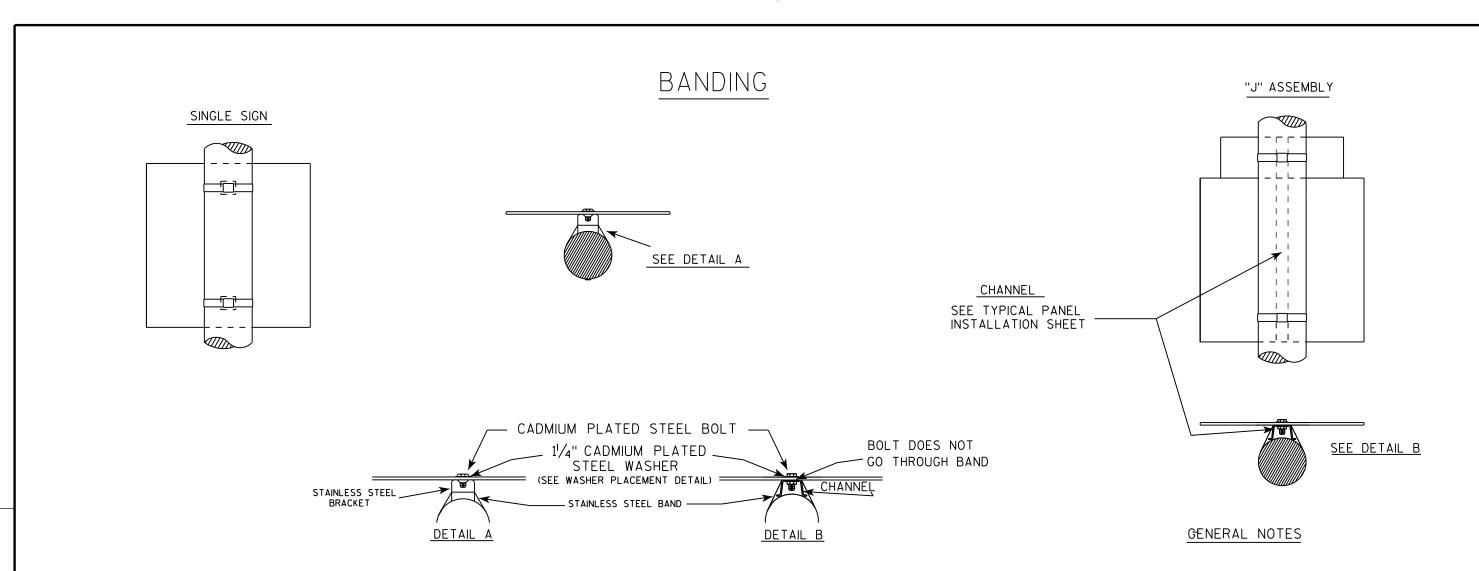
DATE 9/30/13 PLATE NO. A4-4.12

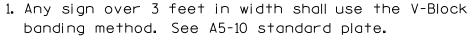
SHEET NO:

PROJECT NO:

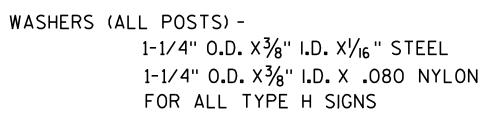
PLOT BY: mscj9h







- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer DATE 8/16/13 PLATE NO. A5-9.3

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A59.DGN

PROJECT NO:

WASHER PLACEMENT

HWY:

steel

washer

nylon

washer

PLOT DATE: 16-AUG-2013 13:27

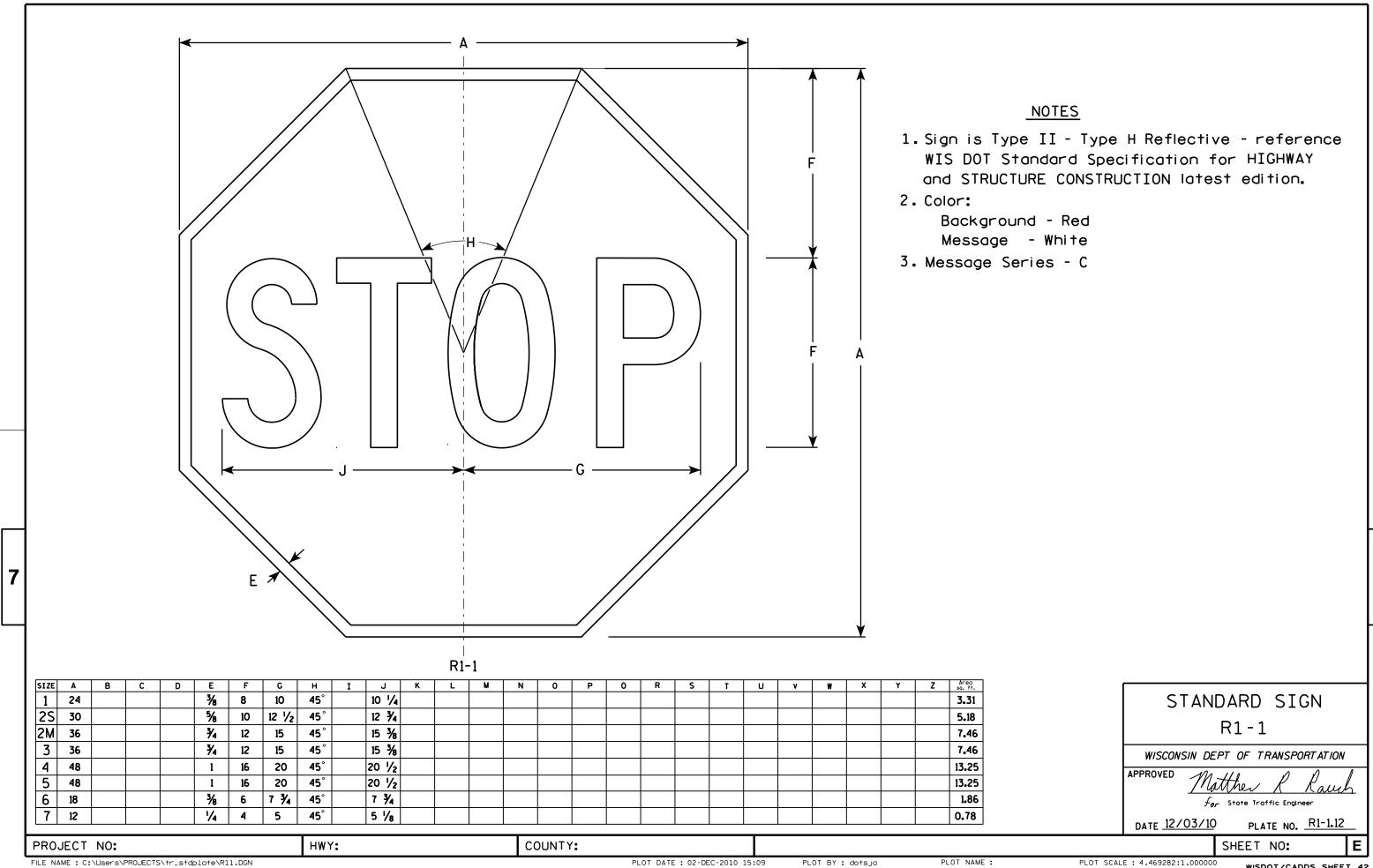
COUNTY:

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLOT BY: mscsja

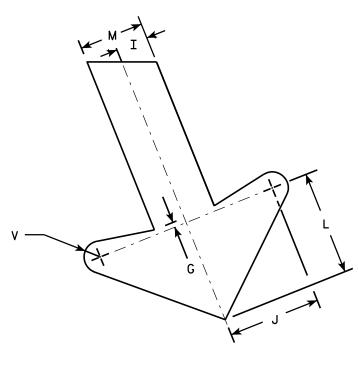
PLOT NAME :



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL
--------------

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 %	3	2 1/4	10 %	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

R3-20L

HWY:

М

М

0

STANDARD SIGN R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer PLATE NO. R3-20L.7

DATE 10/18/10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R320L.DGN

PROJECT NO:

PLOT DATE: 15-OCT-2010 14:45

PLOT NAME :

PLOT BY: dotsja

PLOT SCALE: 5.959043:1.000000

R3-20R

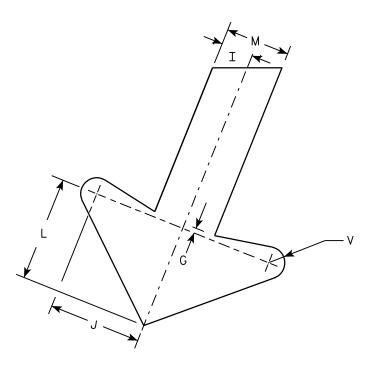
HWY:

#### NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



																											1 4
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 ½	8 1/2	8 1/4		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 1/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

STANDARD SIGN R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raws

SHEET NO:

DATE 10/18/10

PLATE NO. <u>R3-20R.</u>6

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R320R.DGN

PROJECT NO:

PLOT DATE: 15-OCT-2010 14:59

PLOT BY: dotsja

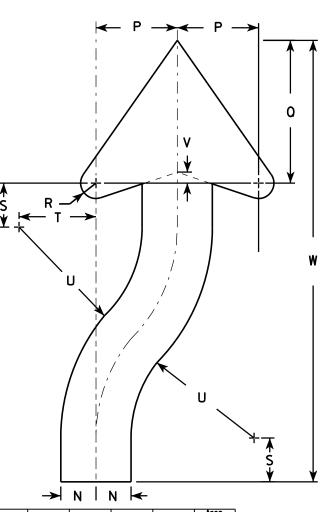
PLOT NAME :

PLOT SCALE: 5.959043:1.000000

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

																							$\rightarrow$	ŊΙ	N <del> </del>		
SIZE	Α .	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	₩	X	Y	Z	Areg sq. ft.
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2 22	1/2	3 1/2	6 1/8	5/8	1 1/8	3 1/4	6 3/4	1/2	20 ¾				3.0
25	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2 3	30	4 %	8 1/8	<b>7</b> ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
21	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2 3	30	4 %	8 1/8	<b>7</b> ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3 4	15	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3 4	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 ¾	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

For State Traffic Engineer DATE 3/25/2011

PLATE NO. R4-7.8

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R47.DGN

PROJECT NO:

D→

HWY:

PLOT DATE: 25-MAR-2011 14:10

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.462457:1.000000

## <u>NOTES</u>

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See detail Message - White - Type H Reflective

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

Whi te Red White R5-1

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
3	36		2 1/4		6	5	7 1/2	2 ½	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 %	14 1/2	23 ½	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

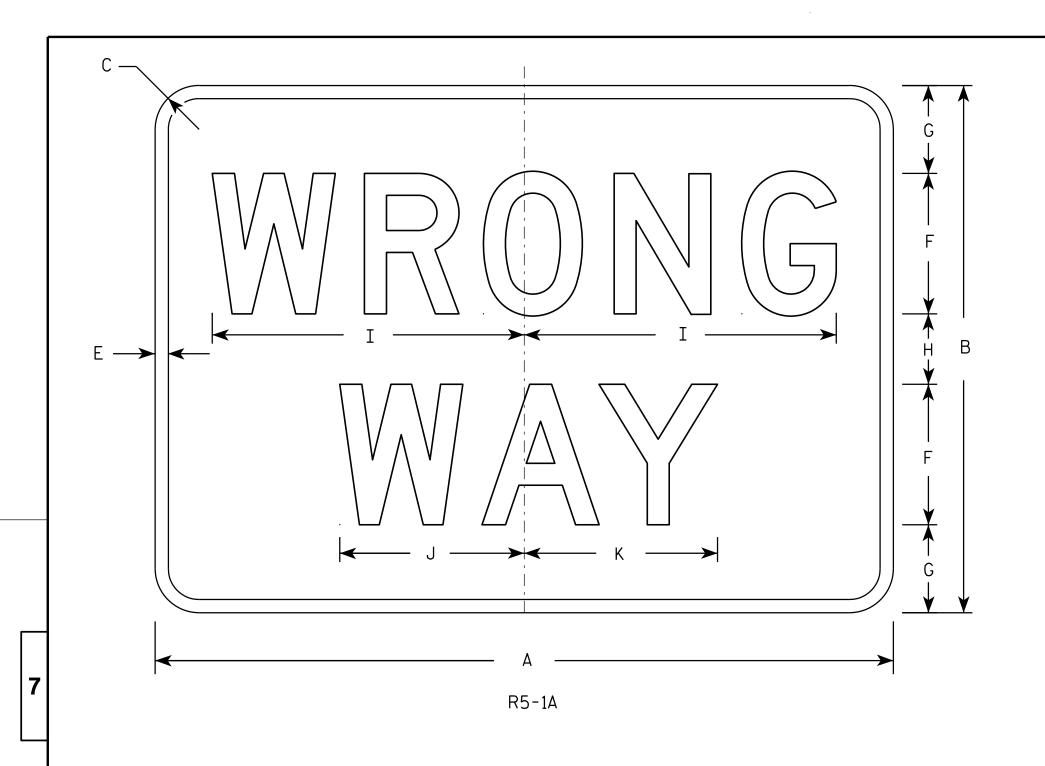
DATE 12/17/10 PLATE NO. R5-1.15

SHEET NO:

PROJECT NO:

HWY:

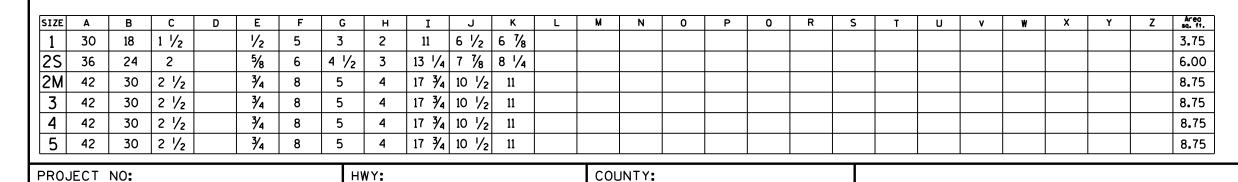
PLOT NAME :



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Red Message - White

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raud

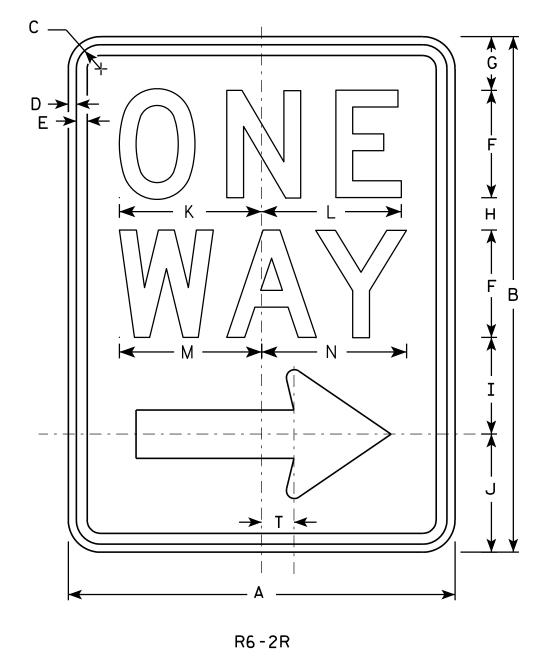
For State Traffic Engineer PLATE NO. R5-1A.2

DATE 12/17/10

SHEET NO:

PROJECT NO:

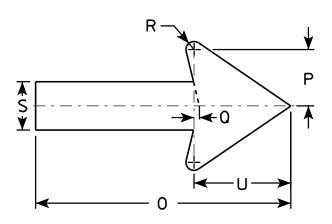
PLOT NAME :



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R6-2L same as R6-2R except arrow points to the left.



SIZE	Α	В	С	D	Е	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	Т	J	٧	W	Х	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 ¾	11 %	2 %	1/4	3∕8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 ½	7	8 1/8	8 1/8	8 1/2	8 %	16	3 ½	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 ½	24	5 %	1/2	3/4	4 3/4	3	9					
5	·										·									·				·		
1																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R62.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT NAME :

PLOT BY: ditjph

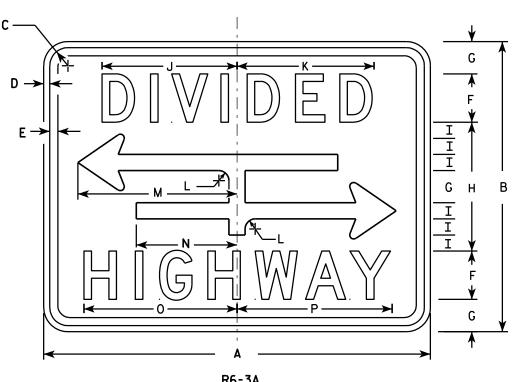
PLOT SCALE: 4.469282:1.000000

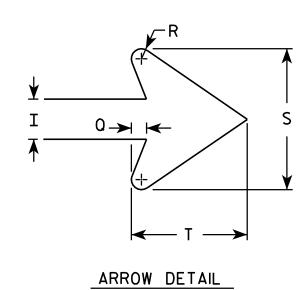
## <u>NOTES</u>

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	24	18	11/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 %	6 1/4	9 1/2	9 %	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	11/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2	10 %	<b>7</b> /8	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
2M	30	24	11/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2	10 %	<b>7</b> ⁄8	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
3																											
4																											
5																											
					•										•												

STANDARD SIGN R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE 3/31/2011

PLATE NO. R6-3.5 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R63.DGN

PROJECT NO:

R6-3

PLOT DATE: 31-MAR-2011 09:08

PLOT BY: mscsja

5.959043:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow

3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

W5-54	

SIZE	Α	В	С	D	Е	F	G	Н	I	C	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 1/2																		2.25
2M	18								1 1/2																		2.25
3																											
4																											
5		·			·										·				·								

COUNTY:

STANDARD SIGN W5-54

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matthew R Rauch *for* State Traffic Engineer DATE 11/3/10 PLATE NO. W5-54.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W554.DGN

PROJECT NO:

HWY:

PLOT DATE: 03-NOV-2010 09:54

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 4.965871:1.000000

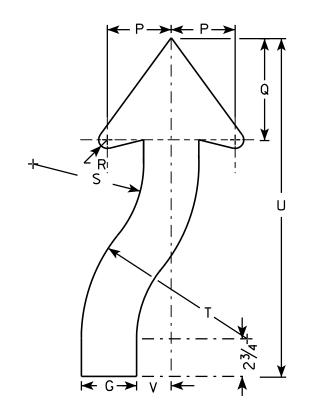
WISDOT/CADDS SHEET 42

Ε

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Ρ	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 1/8	25	1 3/4	11 %	4 1/8	3 %	6 3/4	5/8	6 %	9 %	21 %	2					6.25
2S	36		1 1/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 %	7 3/8	<b>7</b> /8	8	12	24 1/2	2 1/2					9.0
2M	36		1 1/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 %	7 3/8	<b>7</b> /8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 %	13 %	6 3/8	12 5/8	40	2 5/8	18 %	6 %	6 1/4	9 %	1 1/4	10 %	16	32 %	3 %					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 %	18 %	6 %	6 1/4	9 %	1 1/4	10 %	16	32 %	3 3/8	·				16.0

COUNTY:

W6-1

**←** G → ← G →

STANDARD SIGN W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
for State Traffic Engineer

DATE <u>03/12/13</u>

PLATE NO. <u>W6-1.14</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W61.DGN

PROJECT NO:

HWY:

PLOT DATE: 12-MAR-2013 14:02

PLOT BY: mscsja

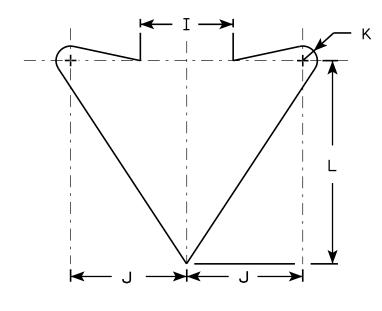
PLOT SCALE: 6.946657:1.000000

## <u>NOTES</u>

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	Α	В	C	D	Ε	F	G	н	I	J	K	L	M	N	0	P	0	R	S	Т	U	٧	W	x	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 %	4	5	5/8	8 3/4	5 %														6.25
25	36		1 %	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 %	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

COUNTY:

W6-3

HWY:

STANDARD SIGN W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE <u>03/12/13</u>

3/12/13 PLATE NO. W6-3.10

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W63.DGN

PROJECT NO:

PLOT DATE: 12-MAR-2013 14:11

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000

# STAGE 1 - TEMP LANE

			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
	Real Station		Cut	Salvaged/Unusable	Fill	Marsh Exc	Rock Ex	EBS	Cut	Salvaged/Unusable	Fill	Marsh I	Exc Rock I	xc EBS		Expanded Fill	xpanded Marsh Backfill	<b>Expanded Rock</b>	Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	Mass Ordinate
STATION		Distance		Pavement Material					Note 1	Pavement Material Note 2	Note 3	3			1.00 Note 1	1.25	1.50 <b>Note 4</b>	1.10	1.30 <b>Note 5</b>	0.60 <b>Note 6</b>	0.80 <b>Note 7</b>	Note 8
125+91.5	12591.50	0.00 8.50	17.49 17.28		0.09 0.12	0.00 0.00	0.00 0.00	0.00	0 5	0	0	0	0	0	0 5	0	0	0	0	0.00 0.00	0.00	0.00 5.43
126+00 126+50	12600.00 12650.00	50.00	15.20		1.22	0.00	0.00	0.00	30	0	1	0	0	0	36	2	0	0	0	0.00	0.00 0.00	33.96
127+00	12700.00	50.00	15.01		3.25	0.00	0.00	0.00	28	Ö	4	Õ	ō	ő	64	7	ō	Ö	Ö	0.00	0.00	56.76
127+50	12750.00	50.00	14.16		3.50	0.00	0.00	0.00	27	0	6	0	0	0	91	15	0	0	0	0.00	0.00	75.96
128+00	12800.00	50.00	14.82		6.37	0.00	0.00	0.00	27	0	9	0	0	0	117	26	0	0	0	0.00	0.00	91.37
128+50 129+00	12850.00 12900.00	50.00 50.00	16.84 14.26		2.38 13.38	0.00 0.00	0.00 0.00	0.00	29 29	0	8 15	0	0	0	147 175	36 54	0	0	0	0.00 0.00	0.00 0.00	110.56 121.11
129+50	12950.00	50.00	13.06		13.57	0.00	0.00	0.00	25	0	25	0	0	Ö	201	86	0	Ö	Ö	0.00	0.00	115.21
130+00	13000.00	50.00	13.56	0.00	11.83	0.00	0.00	0.00	25	0	24	0	0	0	225	115	0	0	0	0.00	0.00	110.46
130+50	13050.00	50.00	13.89		9.89	0.00	0.00	0.00	25	0	20	0	0	0	251	140	0	0	0	0.00	0.00	110.74
131+00	13100.00	50.00	14.58		8.51	0.00 0.00	0.00	0.00	26 28	0	17	0	0	0	277	161	0	0	0	0.00	0.00	115.81
131+50 132+00	13150.00 13200.00	50.00 50.00	15.23 15.11		8.47 6.34	0.00	0.00 0.00	0.00	28	0	16 14	0	0	0	305 333	181 198	0	0	0	0.00 0.00	0.00 0.00	123.76 134.71
132+50	13250.00	50.00	12.53		10.79	0.00	0.00	0.00	26	0	16	0	0	Ö	359	218	Ö	Ö	ő	0.00	0.00	140.46
133+00	13300.00	50.00	10.33		11.41	0.00	0.00	0.00	21	0	21	0	0	0	380	244	0	0	0	0.00	0.00	135.92
133+50	13350.00	50.00	7.42		10.42	0.00	0.00	0.00	16	0	20	0	0	0	396	269	0	0	0	0.00	0.00	127.08
134+00 134+50	13400.00 13450.00	50.00 50.00	6.81 6.86		10.62 9.13	0.00 0.00	0.00 0.00	0.00	13 13	0	19 18	0	0	0	409 422	293 316	0	0	0	0.00 0.00	0.00 0.00	115.91 105.71
135+00	13500.00	50.00	6.99		6.82	0.00	0.00	0.00	13	0	15	0	0	0	435	335	0	0	0	0.00	0.00	100.07
135+50	13550.00	50.00	6.79		5.73	0.00	0.00	0.00	13	Ö	12	ő	ő	ő	448	349	ŏ	ŏ	ŏ	0.00	0.00	98.31
136+00	13600.00	50.00	6.52	0.00	5.58	0.00	0.00	0.00	12	0	10	0	0	0	460	362	0	0	0	0.00	0.00	97.55
136+50	13650.00	50.00	6.78		5.60	0.00	0.00	0.00	12	0	10	0	0	0	472	375	0	0	0	0.00	0.00	96.92
137+00	13700.00	50.00	6.20		9.76 3.80	0.00 0.00	0.00	0.00	12 12	0	14 13	0	0	0	484 497	393	0	0	0	0.00	0.00	91.16 87.82
137+50 138+00	13750.00 13800.00	50.00 50.00	7.15 8.73		3.58	0.00	0.00 0.00	0.00	15	0	7	0	0	0	511	409 417	0	0	0	0.00 0.00	0.00 0.00	93.97
138+50	13850.00	50.00	9.83		2.34	0.00	0.00	0.00	17	Ö	, 5	ő	ő	Ö	528	424	ő	Ö	ő	0.00	0.00	104.31
139+00	13900.00	50.00	11.15	0.00	1.36	0.00	0.00	0.00	19	0	3	0	0	0	548	428	0	0	0	0.00	0.00	119.46
139+50	13950.00	50.00	10.98		2.01	0.00	0.00	0.00	20	0	3	0	0	0	568	432	0	0	0	0.00	0.00	136.05
* 140+00	14000.00 14050.00	50.00 50.00	12.11 14.35		2.35 1.53	0.00 0.00	0.00 0.00	0.00	21	0	4	0	0	0	590	437 442	0	0	0	0.00 0.00	0.00 0.00	152.38 172.39
140+50 141+00	14100.00	50.00	16.89		1.30	0.00	0.00	0.00	25 29	0	3	0	0	0	614 643	445	0	0	0	0.00	0.00	198.04
141+50	14150.00	50.00	15.85		2.13	0.00	0.00	0.00	30	Ö	3	ő	ő	ő	673	449	ő	ŏ	Ö	0.00	0.00	224.38
142+00	14200.00	50.00	15.24		2.02	0.00	0.00	0.00	29	0	4	0	0	0	702	454	0	0	0	0.00	0.00	248.36
142+50	14250.00	50.00	17.06		0.51	0.00	0.00	0.00	30	0	2	0	0	0	732	457	0	0	0	0.00	0.00	275.33
143+00 143+50	14300.00 14350.00	50.00 50.00	19.71 19.57		0.00	0.00 0.00	0.00 0.00	0.00	34 36	0	0	0	0	0	766 803	457 457	0	0	0	0.00 0.00	0.00 0.00	308.78 345.15
144+00	14400.00	50.00	17.35		0.27	0.00	0.00	0.00	34	0	0	0	0	0	837	458	0	0	0	0.00	0.00	379.02
144+50	14450.00	50.00	18.00		0.48	0.00	0.00	0.00	33	Ō	1	ō	ō	ō	869	459	ō	ō	Ö	0.00	0.00	410.88
145+00	14500.00	50.00	18.12		0.59	0.00	0.00	0.00	33	0	1	0	0	0	903	460	0	0	0	0.00	0.00	443.08
145+50	14550.00	50.00	17.94		0.00	0.00	0.00	0.00	33	0	1	0	0	0	936	461	0	0	0	0.00	0.00	475.78
146+00 146+50	14600.00 14650.00	50.00 50.00	15.28 15.30		2.12 1.90	0.00 0.00	0.00 0.00	0.00	31 28	0	4	0	0	0	967 995	463 468	0	0	0	0.00 0.00	0.00	504.09 527.75
147+00	14700.00	50.00	14.44		1.82	0.00	0.00	0.00	28	0	3	0	0	0	1,023	472	0	0	0	0.00	0.00	550.98
147+50	14750.00	50.00	15.69		1.89	0.00	0.00	0.00	28	0	3	0	0	0	1,051	476	0	0	0	0.00	0.00	574.58
148+00	14800.00	50.00	16.74		0.91	0.00	0.00	0.00	30	0	3	0	0	0	1,081	479	0	0	0	0.00	0.00	601.36
148+50	14850.00	50.00	19.13		0.76	0.00	0.00	0.00	33	0	2	0	0	0	1,114	481	0	0	0	0.00	0.00	632.63
149+00 149+50	14900.00 14950.00	50.00 50.00	20.15 19.28		0.70 1.77	0.00	0.00 0.00	0.00	36 37	0	7	0	0	0	1,150 1,187	483 486	0	0	0	0.00 0.00	0.00	667.32 700.97
150+00	15000.00	50.00	22.22		1.29	0.00	0.00	0.00	38	0	3	0	0	0	1,225	489	0	0	Ö	0.00	0.00	735.84
150+50	15050.00	50.00	19.46	0.00	7.71	0.00	0.00	0.00	39	Ō	8	ő	ő	ő	1,264	500	ō	Ō	Ö	0.00	0.00	764.02
151+00	15100.00	50.00	20.11		8.08	0.00	0.00	0.00	37	0	15	0	0	0	1,301	518	0	0	0	0.00	0.00	782.39
151+50	15150.00	50.00	16.46		12.89	0.00	0.00	0.00	34	0	19	0	0	0	1,334	542 570	0	0	0	0.00	0.00	791.98
152+00 152+50	15200.00 15250.00	50.00 50.00	14.45 11.90		17.98 17.63	0.00 0.00	0.00	0.00	29 24	0	29 33	0	0	0	1,363 1,387	578 619	0	0	0	0.00 0.00	0.00	784.88 768.08
153+00	15300.00	50.00	13.55		14.04	0.00	0.00	0.00	24	0	29	0	0	0	1,411	656	0	Ö	ő	0.00	0.00	755.00
153+50	15350.00	50.00	14.45	0.00	4.76	0.00	0.00	0.00	26	Ō	17	Ō	ō	ō	1,437	678	Ö	Ō	Ō	0.00	0.00	759.17
154+00	15400.00	50.00	14.80		4.61	0.00	0.00	0.00	27	0	9	0	0	0	1,464	689	0	0	0	0.00	0.00	775.40
154+03.03	15403.03	3.03	14.79	0.00	4.62	0.00	0.00	0.00	2	0	1	0	0	0	1,466	689	0	0	0	0.00	0.00	776.41
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PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE CROSS SECTIONS: COMPUTER EARTHWORK DATA SHEET I

# EARTHWORK TABLE - MAINLINE STAGE 2

			AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (							
	Real Station		Cut	Salvaged/Unusable	Fill	Marsh Exc	Rock Exc EB	S Cut	Salvaged/Unusable	Fill	Marsh Exc Rocl	Exc EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	Mass Ordinate
STATION		Distance		Pavement Material				Note 1	Pavement Material	Note 3			1.00 Note 1	1.25	1.50 <b>Note 4</b>	1.10	1.30 <b>Note 5</b>	0.60 <b>Note 6</b>	0.80 <b>Note 7</b>	Note 8
124+00	12400.00	0.00	0.00	0.00	0.00	0.00	0.00 0.0	0 0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
124+50 125+00	12450.00 12500.00	50.00 50.00	60.76 23.04	0.00 0.00	0.00 0.12	0.00	0.00 0.0		0	0	0 (	0	56 134	0	0 0	0 0	0	0.00 0.00	0.00 0.00	56.26 133.73
125+50 126+00	12550.00 12600.00	50.00 50.00	16.55 13.62	0.00 0.00	2.65 9.97	0.00	0.00 0.0		0	3 12	0	0	171 198	3 18	0	0	0	0.00 0.00	0.00 0.00	167.19 180.51
126+50	12650.00	50.00	12.13	0.00	13.99	0.00	0.00 0.0	0 24	ŏ	22	0	0	222	46	Ö	ő	ŏ	0.00	0.00	176.63
127+00 127+50	12700.00 12750.00	50.00 50.00	11.18 11.78	0.00 0.00	28.14 36.59	0.00	0.00 0.0		0	39 60	0 (	0	244 265	94 169	0	0	0	0.00 0.00	0.00 0.00	149.46 95.80
128+00	12800.00	50.00	11.22	0.00	40.90	0.00	0.00 0.0	0 21	0	72	0	0	286	259	0	0	0	0.00	0.00	27.39
128+50 129+00	12850.00 12900.00	50.00 50.00	10.97 18.28	0.00 0.00	46.04 45.37	0.00	0.00 0.0		0	81 85	0	0	307 334	360 465	0	0	0	0.00 0.00	0.00 0.00	-52.70 -131.42
129+50 130+00	12950.00 13000.00	50.00 50.00	25.59 23.50	0.00 0.00	42.51 39.68	0.00	0.00 0.0		0	81 76	0	0	375 420	567 662	0	0	0	0.00 0.00	0.00 0.00	-192.52 -242.20
130+50	13050.00	50.00	21.08	0.00	38.57	0.00	0.00 0.0	0 41	ŏ	72	0	0	461	753	ő	ő	ŏ	0.00	0.00	-291.50
131+00 131+50	13100.00 13150.00	50.00 50.00	22.89 26.68	0.00 0.00	48.57 48.30	0.00	0.00 0.0		0	81 90	0 (	0 0	502 548	854 966	0	0	0 0	0.00 0.00	0.00 0.00	-351.65 -417.87
132+00	13200.00	50.00	28.60	0.00	46.07	0.00	0.00 0.0	0 51	0	87	0	0	599	1,075	0	0	0	0.00	0.00	-475.93
132+50 133+00	13250.00 13300.00	50.00 50.00	34.49 39.66	0.00 0.00	64.68 64.81	0.00	0.00 0.0	0 69	0	103 120	0	) 0	658 726	1,203 1,353	0	0	0	0.00 0.00	0.00 0.00	-545.70 -626.92
133+50 134+00	13350.00 13400.00	50.00 50.00	44.89 48.79	0.00 0.00	54.36 35.87	0.00	0.00 0.0		0	110 84	0	0	805 891	1,491 1,596	0	0	0	0.00	0.00 0.00	-686.57 -704.26
134+50	13450.00	50.00	53.73	0.00	42.92	0.00	0.00 0.0	0 95	ŏ	73	0	0	986	1,687	Ö	Ö	ő	0.00	0.00	-700.52
135+00 135+09.25	13500.00 13509.25	50.00 9.25	58.66 62.99		42.61 107.21	0.00	0.00 0.0		0	79 26	0 (	0	1,090 1,111	1,786 1,818	0	0	0	0.00 0.00	0.00 0.00	-695.46 -706.70
135+25	13525.00	15.75	77.52	0.00	108.64	0.00	0.00 0.0	0 41	0	63	0	0	1,152	1,897	0	0	0	0.00	0.00	-744.41
135+50 135+75	13550.00 13575.00	25.00 25.00	49.49 50.00	0.00 0.00	70.31 6.16	0.00	0.00 0.0	0 46	0	83 35	0	0	1,211 1,257	2,000 2,044	0	0	0	0.00 0.00	0.00 0.00	-789.18 -787.37
136+00 136+25	13600.00 13625.00	25.00 25.00	49.48 50.13	0.00 0.00	6.53 62.02	0.00	0.00 0.0		0	6 32	0 (	0 0	1,303 1,349	2,052 2,091	0	0	0	0.00 0.00	0.00 0.00	-748.66 -742.22
136+50	13650.00	25.00	55.29	0.00	145.29	0.00	0.00 0.0	0 49	ō	96	0	0	1,398	2,211	Ö	ō	Ö	0.00	0.00	-813.38
136+51.35 137+00	13651.35 13700.00	1.35 48.65	131.50 165.43		139.77 113.13	0.00 0.00	0.00 0.0		0	7 228	0 (	0 0	1,403 1,670	2,220 2,505	0	0	0	0.00 0.00	0.00 0.00	-817.61 -834.92
137+50 138+00	13750.00 13800.00	50.00 50.00	141.79 298.90	0.00 0.00	20.84 0.00	0.00	0.00 0.0		0	124 19	0	0	1,955 2,363	2,660 2,684	0	0	0	0.00	0.00	-705.52 -321.58
138+50	13850.00	50.00	73.39	0.00	22.35	0.00	0.00 0.0	0 345	0	21	0	0	2,707	2,710	0	0	0	0.00	0.00	-2.74
139+00 139+50	13900.00 13950.00	50.00 50.00	55.22 47.71	0.00 0.00	92.05 84.47	0.00	0.00 0.0		0	106 163	0 (	0	2,826 2,922	2,843 3,047	0	0	0	0.00 0.00	0.00 0.00	-16.08 -125.07
140+00	14000.00	50.00	45.57	0.00	78.15	0.00	0.00 0.0	0 86	0	151	0	0	3,008	3,235	0	0	0	0.00	0.00	-226.93
140+50 141+00	14050.00 14100.00	50.00 50.00	47.01 48.87	0.00 0.00	76.16 74.95	0.00	0.00 0.0	0 89	0	143 140	0 (	0	3,094 3,183	3,414 3,589	0	0	0	0.00 0.00	0.00 0.00	-319.82 -405.93
141+50 142+00	14150.00 14200.00	50.00 50.00	51.45 55.45	0.00 0.00	87.53 104.18	0.00	0.00 0.0		0	150 178	0 (	0	3,275 3,374	3,777 3,998	0	0	0	0.00	0.00 0.00	-501.09 -623.99
142+50	14250.00	50.00	55.59	0.00	117.84	0.00	0.00 0.0	0 103	ŏ	206	0	0	3,477	4,255	ő	ő	ŏ	0.00	0.00	-778.15
143+00 143+50	14300.00 14350.00	50.00 50.00	56.82 68.53	0.00 0.00	120.51 93.28	0.00	0.00 0.0		0	221 198	0 (	0 0	3,581 3,697	4,531 4,779	0	0	0	0.00	0.00 0.00	-949.93 -1,081.31
144+00 144+50	14400.00 14450.00	50.00 50.00	65.92 54.88	0.00 0.00	78.81 90.36	0.00	0.00 0.0	0 124	0	159 157	0 (	0	3,822	4,978 5,174	0	0	0	0.00	0.00 0.00	-1,156.01
145+00	14500.00	50.00	56.83	0.00	41.52	0.00	0.00 0.0	0 103	0	122	0	) 0	3,934 4,037	5,326	0	0	0	0.00	0.00	-1,239.95 -1,289.14
145+50 146+00	14550.00 14600.00	50.00 50.00	51.57 54.75	0.00 0.00	58.80 45.44	0.00	0.00 0.0		0	93 97	0 (	0	4,138 4,236	5,442 5,563	0	0	0	0.00 0.00	0.00 0.00	-1,304.88 -1,327.08
146+50	14650.00	50.00	56.86	0.00	34.29	0.00	0.00 0.0	0 103	Ö	74	0	0	4,339	5,655	0	ō	ō	0.00	0.00	-1,316.02
147+00 147+50	14700.00 14750.00	50.00 50.00	56.87 54.33	0.00 0.00	25.98 21.97	0.00	0.00 0.0		0	56 44	0	0 0	4,445 4,548	5,725 5,781	0	0	0	0.00 0.00	0.00 0.00	-1,280.48 -1,233.02
148+00 148+30.61	14800.00 14830.61	50.00 30.61	56.79 41.82	0.00 0.00	15.14 4.17	0.00	0.00 0.0		0	34 11	0	0	4,651 4,706	5,824 5,837	0	0	0	0.00	0.00	-1,173.09 -1,130.88
148+50	14850.00	19.39	41.58	0.00	0.11	0.00	0.00 0.0	0 30	0	2	0	0	4,736	5,839	0	0	ő	0.00	0.00	-1,102.86
148+75 149+00	14875.00 14900.00	25.00 25.00	41.38 28.74	0.00 0.00	0.00 0.05	0.00	0.00 0.0		0	0	0 (	0	4,775 4,807	5,839 5,839	0	0	0	0.00 0.00	0.00 0.00	-1,064.51 -1,032.08
149+25	14925.00	25.00	34.11	0.00	0.95	0.00	0.00 0.0	0 29	0	Ő	0	0	4,836	5,840	0	Ō	ō	0.00	0.00	-1,003.56
149+50 149+52.03	14950.00 14952.03	25.00 2.03	30.50 26.08	0.00 0.00	0.72 0.97	0.00	0.00 0.0		0	0	0	0	4,866 4,868	5,841 5,841	0 0	0 0	0	0.00 0.00	0.00 0.00	-974.61 -972.57
150+00 150+50	15000.00 15050.00	47.97 50.00	21.14 21.02	0.00 0.00	0.53 3.47	0.00	0.00 0.0		0	1	0	0	4,910 4,949	5,843 5,847	0	0 0	0	0.00	0.00	-932.27 -897.87
151+00	15100.00	50.00	25.65	0.00	4.77	0.00	0.00 0.0	0 43	Ö	8	0	0	4,993	5,857	Ö	Ō	Ö	0.00	0.00	-864.20
151+50 152+00	15150.00 15200.00	50.00 50.00	22.68 18.86	0.00 0.00	18.70 43.87	0.00	0.00 0.0		0 0	22 58	0 0	0 0	5,037 5,076	5,884 5,956	0 0	0 0	0 0	0.00 0.00	0.00 0.00	-846.61 -880.56
152+50	15250.00	50.00	16.72	0.00	45.72	0.00	0.00 0.0	0 33	0	83	0	0	5,109	6,060	0	0	0	0.00	0.00	-951.32
153+00 153+50	15300.00 15350.00	50.00 50.00	14.06 12.40	0.00 0.00	56.47 53.11	0.00	0.00 0.0	0 25	0	95 101	0 (	0	5,137 5,162	6,178 6,305	0	0 0	0	0.00 0.00	0.00 0.00	-1,041.11 -1,143.43
154+00 154+37.4	15400.00 15437.40	50.00 37.40	14.34 0.00	0.00 0.00	20.32 0.00	0.00	0.00 0.0	0 25	0	68 14	0	0	5,186 5,196	6,390 6,408	0	0	0	0.00	0.00 0.00	-1,203.65 -1,211.31
107.07.17	13-37.70	57.40	0.00	0.00	0.00	0.00	0.00	- 10	0	14	· ·	, ,	5,190	0,700	U	J	9	0.00	5,00	1/211.51

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PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE CROSS SECTIONS: COMPUTER EARTHWORK DATA SHEET I

# STAGE 3 - TEMP LANE REMOVAL

	ı		AREA (SF)					Т	Incremental Vol (CY) (Unadjusted)						Cumulative Vol (C	Υ)						
	Dool Station	<u> </u>	Ct	Salvaced (University	F:11 M	Involution	- Dook For	- EDG		Calument / University	F:II	Mayab	Eve Beel	Eve EBC			Expanded Marsh		Expanded EBS		Reduced EBS	
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	FIII M	iarsn exc	C ROCK EX	EBS	Cut	Salvaged/Unusable Pavement Material	FIII	marsn	Exc Rock	EXC EBS	1.00	Expanded Fill 1.25	Backfill 1.50	Expanded Rock 1.10	Backfill 1.30	in Fill 0.60	In Fill 0.80	Mass Ordinate
125+91.5	12591.50	0.00	0.06	0.00	0.22	0.00	0.00	0.00	Note 1	Note 2	Note 3			. 0	Note 1	0	Note 4	0	Note 5	Note 6 0.00	Note 7 0.00	0.00
126+00	12600.00	8.50	0.00		8.23 7.09	0.00	0.00 0.00	0.00	0	0	2	0	(	0	0	3	0 0	0	0	0.00	0.00	-3.00
126+50	12650.00	50.00	1.29		0.18	0.00	0.00	0.00	1	0	7	0	(	0	1	11	0	0	0	0.00	0.00	-10.22
127+00 127+50	12700.00 12750.00	50.00 50.00	6.28 9.69		0.41 0.28	0.00	0.00 0.00	0.00	7 15	0	1	0	(	0	8 23	12 13	0	0	0	0.00 0.00	0.00 0.00	-3.90 10.08
128+00	12800.00	50.00	21.95		0.22	0.00	0.00	0.00	29	Ö	ō	ő	Č	0	52	13	Ö	Ö	ő	0.00	0.00	38.80
128+50	12850.00	50.00	15.02		0.39	0.00	0.00	0.00	34	0	1	0	(	0	87	14	0	0	0	0.00	0.00	72.31
129+00 129+50	12900.00 12950.00	50.00 50.00	37.53 34.06		0.42 0.55	0.00	0.00 0.00	0.00	49 66	0	1	0	(	0	135 201	15 16	0	0	0	0.00 0.00	0.00 0.00	120.03 185.19
130+00	13000.00	50.00	31.16		0.77	0.00	0.00	0.00	60	0	1	ő	Č	0	262	18	0	0	0	0.00	0.00	244.05
130+50	13050.00	50.00	29.07		1.01	0.00	0.00	0.00	56	0	2	0	(	0	318	20	0	0	0	0.00	0.00	297.75
131+00 131+50	13100.00 13150.00	50.00 50.00	29.54 23.59		1.25 1.15	0.00	0.00 0.00	0.00	54 49	0	2	0	(	0	372 421	22 25	0	0	0	0.00 0.00	0.00 0.00	349.41 395.82
132+00	13200.00	50.00	30.72		0.90	0.00	0.00	0.00	50	0	2	0	Č	0	471	28	0	0	Ö	0.00	0.00	443.74
132+50	13250.00	50.00	28.65		0.74	0.00	0.00	0.00	55	0	2	0	(	0	526	30	0	0	0	0.00	0.00	496.82
133+00	13300.00	50.00	29.51		0.66 0.62	0.00	0.00 0.00	0.00	54 56	0	1	0	(	0	580 636	31 33	0	0	0	0.00 0.00	0.00 0.00	549.06
133+50 134+00	13350.00 13400.00	50.00 50.00	30.55 31.10		0.54	0.00	0.00	0.00	56 57	0	1	0	(	0	693	33 34	0	0	0	0.00	0.00	603.20 658.94
134+50	13450.00	50.00	28.95	0.00	0.41	0.00	0.00	0.00	56	0	1	ō	Ċ	Ō	748	35	0	0	Ō	0.00	0.00	713.43
135+00	13500.00	50.00	26.96		0.25	0.00	0.00	0.00	52 47	0	1	0	(	0	800	36 36	0	0	0	0.00	0.00	764.43
135+50 136+00	13550.00 13600.00	50.00 50.00	23.75 21.79		0.12 0.05	0.00	0.00 0.00	0.00	47	0	0	0	(	. 0	847 889	36 36	0	0	0	0.00 0.00	0.00 0.00	810.96 852.92
136+50	13650.00	50.00	25.97		0.16	0.00	0.00	0.00	44	Ō	ō	ō	Ò	0	934	37	ō	Ö	ō	0.00	0.00	896.90
137+00	13700.00	50.00	26.12		0.08	0.00	0.00	0.00	48	0	0	0	(	0	982	37	0	0	0	0.00	0.00	944.86
137+50 138+00	13750.00 13800.00	50.00 50.00	26.94 28.39		0.00	0.00	0.00 0.00	0.00	49 51	0	0	0	(	0	1,031 1,082	37 37	0	0	0	0.00 0.00	0.00 0.00	993.90 1,045.13
138+50	13850.00	50.00	21.90		0.02	0.00	0.00	0.00	47	o O	ő	ő	Ò	0	1,129	37	0	Ö	ő	0.00	0.00	1,091.67
139+00	13900.00	50.00	17.05		0.01	0.00	0.00	0.00	36	0	0	0	(	0	1,165	37	0	0	0	0.00	0.00	1,127.70
139+50 140+00	13950.00 14000.00	50.00 50.00	19.88 21.62		0.11 0.23	0.00	0.00 0.00	0.00	34 38	0	0	0	(	0	1,199 1,237	37 38	0	0	0	0.00 0.00	0.00 0.00	1,161.76 1,199.80
140+50	14050.00	50.00	15.00		0.23	0.00	0.00	0.00	34	0	1	0	(	0	1,271	38	0	0	0	0.00	0.00	1,233.00
141+00	14100.00	50.00	11.31	0.00	0.67	0.00	0.00	0.00	24	0	1	0	(	0	1,296	40	0	0	0	0.00	0.00	1,256.13
141+50	14150.00	50.00	12.80		1.25	0.00	0.00	0.00	22	0	2	0	(	0	1,318	42	0	0	0	0.00	0.00	1,276.23
142+00 142+50	14200.00 14250.00	50.00 50.00	8.46 6.43		2.27 1.70	0.00	0.00 0.00	0.00	20 14	0	3 4	0	(	0	1,338 1,351	46 50	0	0	0	0.00 0.00	0.00 0.00	1,291.84 1,301.03
143+00	14300.00	50.00	5.57		1.47	0.00	0.00	0.00	11	Ō	3	ō	Ò	_	1,363	54	ō	Ö	ō	0.00	0.00	1,308.48
143+50	14350.00	50.00	5.68		0.96	0.00	0.00	0.00	10	0	2	0	(	0	1,373	57	0	0	0	0.00	0.00	1,316.09
144+00 144+50	14400.00 14450.00	50.00 50.00	4.52 4.97		1.28 1.73	0.00	0.00 0.00	0.00	9 9	0	2	0	(		1,382 1,391	60 63	0	0	0	0.00 0.00	0.00 0.00	1,322.94 1,328.25
145+00	14500.00	50.00	8.33		1.95	0.00	0.00	0.00	12	0	3	ő	Č		1,404	67	0	Ö	ő	0.00	0.00	1,336.30
145+50	14550.00	50.00	1.19		1.68	0.00	0.00	0.00	9	0	3	0	(		1,412	71	0	0	0	0.00	0.00	1,340.90
146+00 146+50	14600.00 14650.00	50.00 50.00	10.88 10.97		1.00 1.14	0.00	0.00 0.00	0.00	11 20	0	2	0	(	0	1,424 1,444	75 77	0	0	0	0.00 0.00	0.00 0.00	1,348.96 1,366.70
147+00	14700.00	50.00	11.21		1.31	0.00	0.00	0.00	21	0	2	0	(	0	1,464	80	0	0	0	0.00	0.00	1,384.40
147+50	14750.00	50.00	11.30	0.00	1.49	0.00	0.00	0.00	21	0	3	0	(	0	1,485	83	0	0	0	0.00	0.00	1,402.00
148+00	14800.00	50.00	8.87		1.72	0.00	0.00	0.00	19	0	3	0	(	0	1,504	87	0	0	0	0.00	0.00	1,416.97
148+50 149+00	14850.00 14900.00	50.00 50.00	8.66 8.71		1.52 1.27	0.00	0.00 0.00	0.00	16 16	0	3	0		0	1,520 1,536	91 94	0	0	0	0.00 0.00	0.00 0.00	1,429.45 1,442.31
149+50	14950.00	50.00	11.56		1.11	0.00	0.00	0.00	19	ő	2	ő	Ò	0	1,555	97	ŏ	ő	ŏ	0.00	0.00	1,458.32
150+00	15000.00	50.00	12.72		1.13	0.00	0.00	0.00	22	0	2	0	(	0	1,577	99	0	0	0	0.00	0.00	1,478.21
150+50 151+00	15050.00 15100.00	50.00 50.00	20.11 22.53		0.75 0.51	0.00	0.00 0.00	0.00	30 39	0	2	0	(	0	1,608 1,647	101 103	0	0	0	0.00 0.00	0.00 0.00	1,506.43 1,544.45
151+50	15150.00	50.00	22.53		0.16	0.00	0.00	0.00	42	0	1	0	(	0	1,689	104	0	0	o	0.00	0.00	1,585.74
152+00	15200.00	50.00	29.38	0.00	0.17	0.00	0.00	0.00	48	0	0	0	Ċ	0	1,738	104	0	0	0	0.00	0.00	1,633.78
152+50	15250.00	50.00	26.18		0.67	0.00	0.00	0.00	51 47	0	1	0	(	0	1,789	105	0	0	0	0.00	0.00	1,684.25
153+00 153+50	15300.00 15350.00	50.00 50.00	24.44 13.95		0.46 0.97	0.00	0.00 0.00	0.00	36	0	1	0	(	0	1,836 1,872	106 108	0	0	0	0.00 0.00	0.00 0.00	1,729.81 1,763.71
154+00	15400.00	50.00	10.08	0.00	1.86	0.00	0.00	0.00	22	0	3	ō	Ò	Ö	1,894	111	Ö	Ö	Ō	0.00	0.00	1,782.68
154+37.4	15437.40	37.40	0.00	0.00	0.00	0.00	0.00	0.00	7	0	1	0	(	0	1,901	113	0	0	0	0.00	0.00	1,788.06

COUNTY: DANE CROSS SECTIONS: MAINLINE HWY:USH 14 SHEET PROJECT NO:5310-01-73

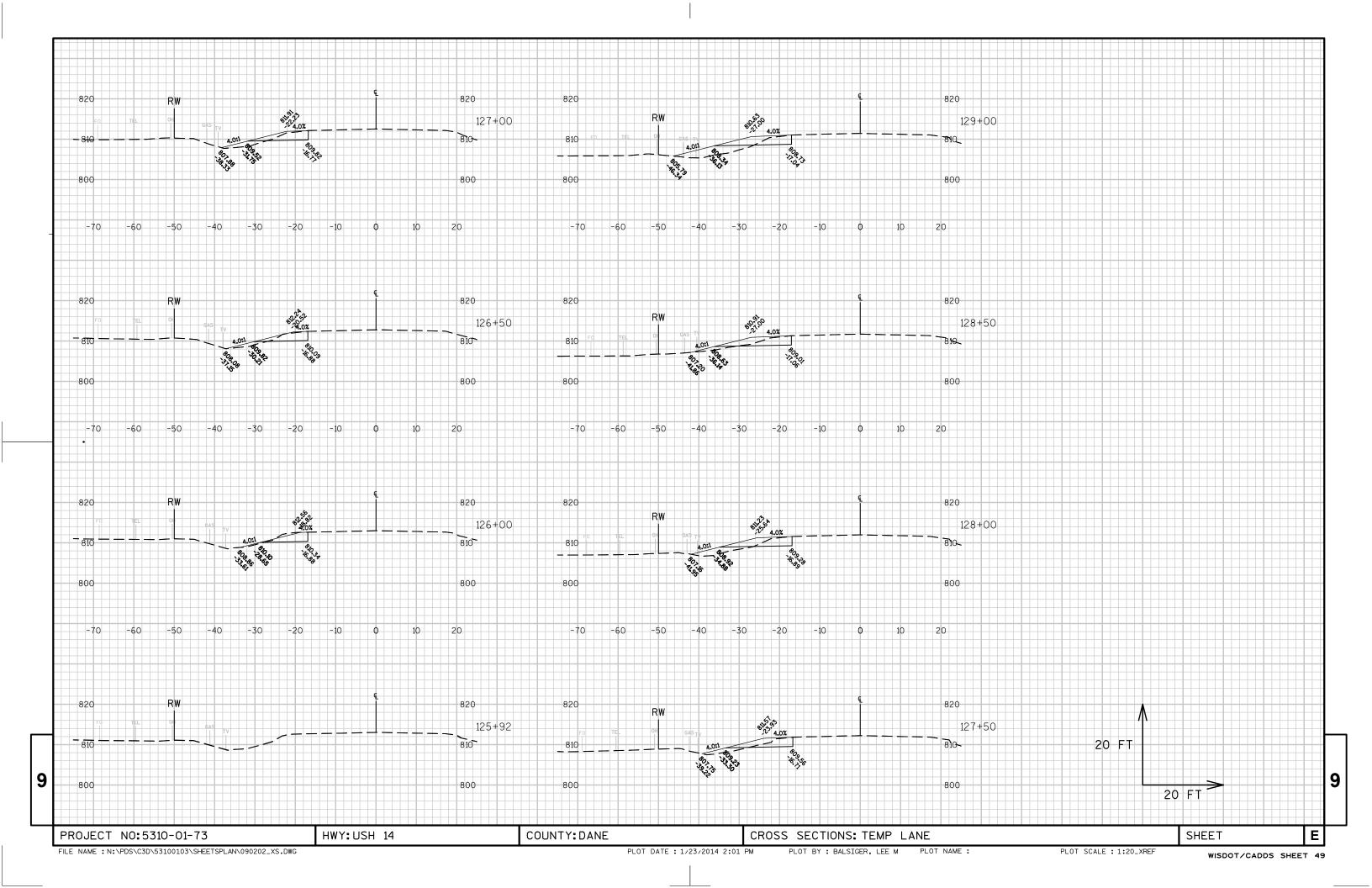
# SCHOOL ENTRANCE

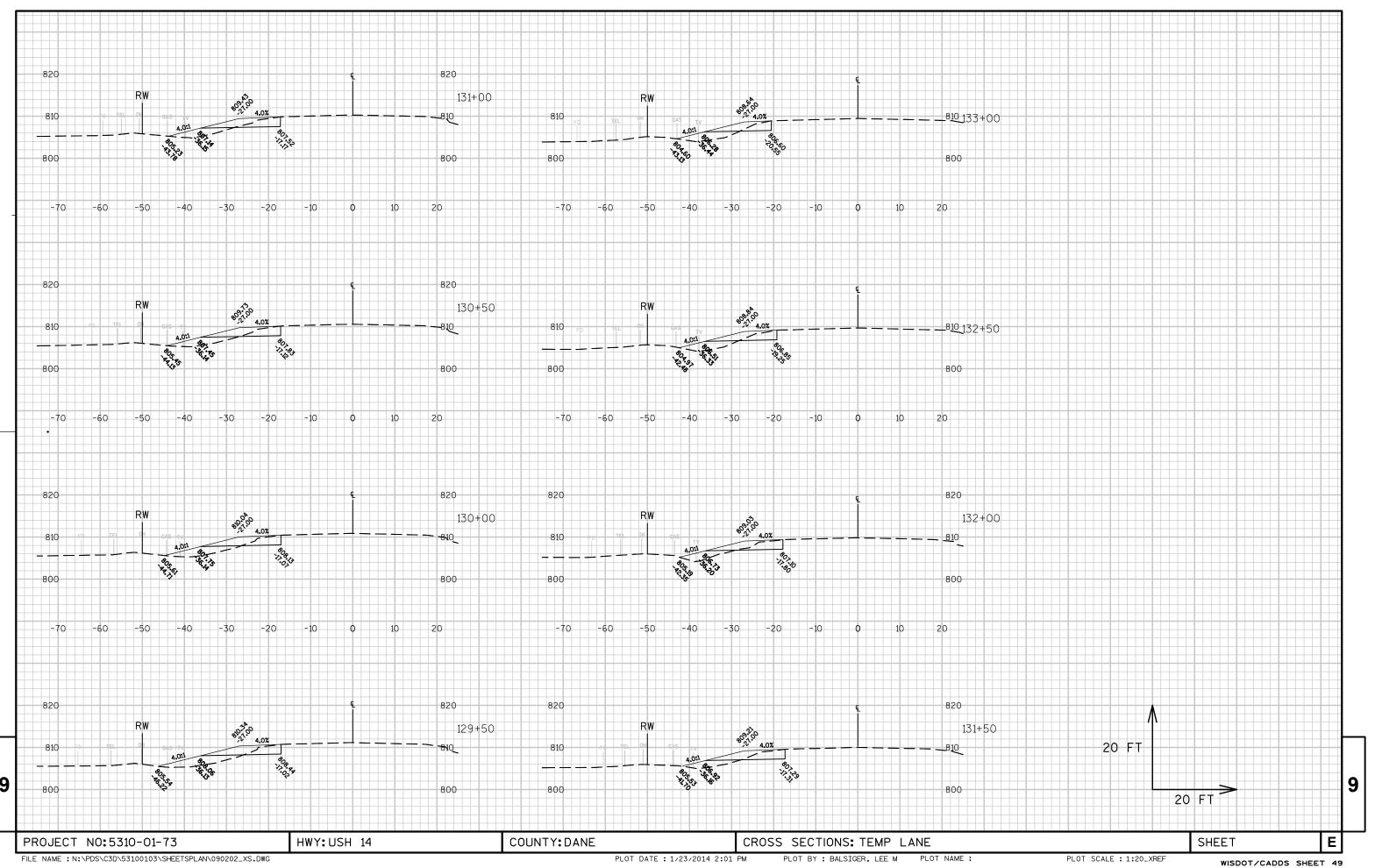
			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Ex	c EBS	Cut Note 1	Salvaged/Unusable Pavement Material Note 2		Marsh Exc	Rock Ex	c EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10		Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate  Note 8
134+00.62	13400.62	0.00	48.94	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
134+20	13420.00	19.38	26.32	0.00	0.47	0.00	0.00	0.00	27	0	0	0	0	0	27	0	0	0	0	0.00	0.00	26.80
134+40	13440.00	20.00	7.92	0.00	18.51	0.00	0.00	0.00	13	0	7	0	0	0	40	9	0	0	0	0.00	0.00	30.69
134+60	13460.00	20.00	15.80	0.00	68.09	0.00	0.00	0.00	9	0	32	0	0	0	48	49	0	0	0	0.00	0.00	-0.61
134+80	13480.00	20.00	64.10	0.00	128.27	0.00	0.00	0.00	30	0	73	0	0	0	78	140	0	0	0	0.00	0.00	-61.93
135+00	13500.00	20.00	84.19	0.00	128.12	0.00	0.00	0.00	55	0	95	0	0	0	133	259	0	0	0	0.00	0.00	-125.71
135+20	13520.00	20.00	50.25	0.00	271.56	0.00	0.00	0.00	50	0	148	0	0	0	183	444	0	0	0	0.00	0.00	-260.95
135+40	13540.00	20.00	0.00	0.00	148.56	0.00	0.00	0.00	19	0	156	0	0	0	201	638	0	0	0	0.00	0.00	-436.84
135+60	13560.00	20.00	0.00	0.00	26.39	0.00	0.00	0.00	0	0	65	0	0	0	201	719	0	0	0	0.00	0.00	-517.83
135+75.42	13575.42	15.42	0.00	0.00	0.56	0.00	0.00	0.00	0	0	8	0	0	0	201	729	0	0	0	0.00	0.00	-527.45

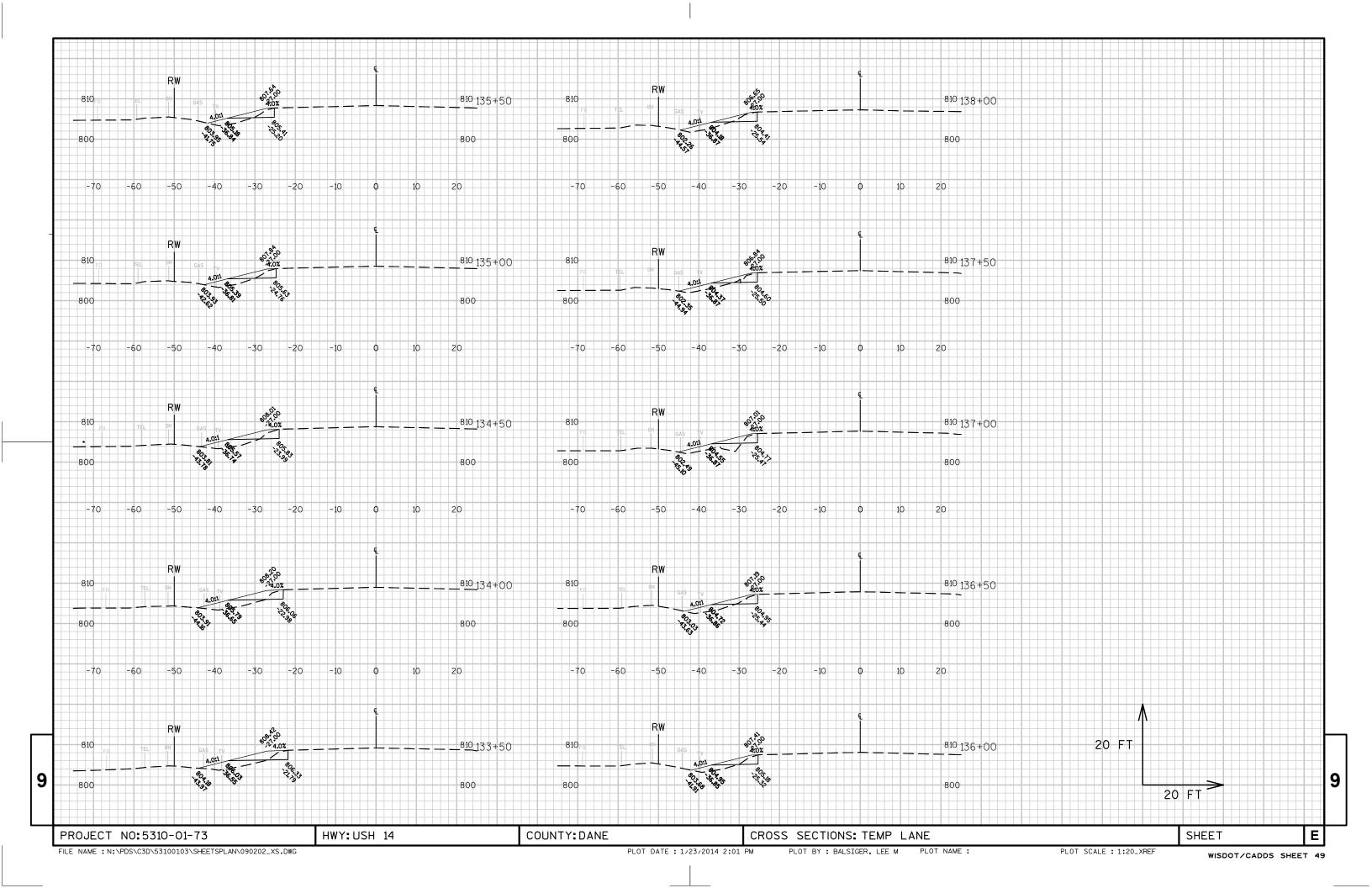
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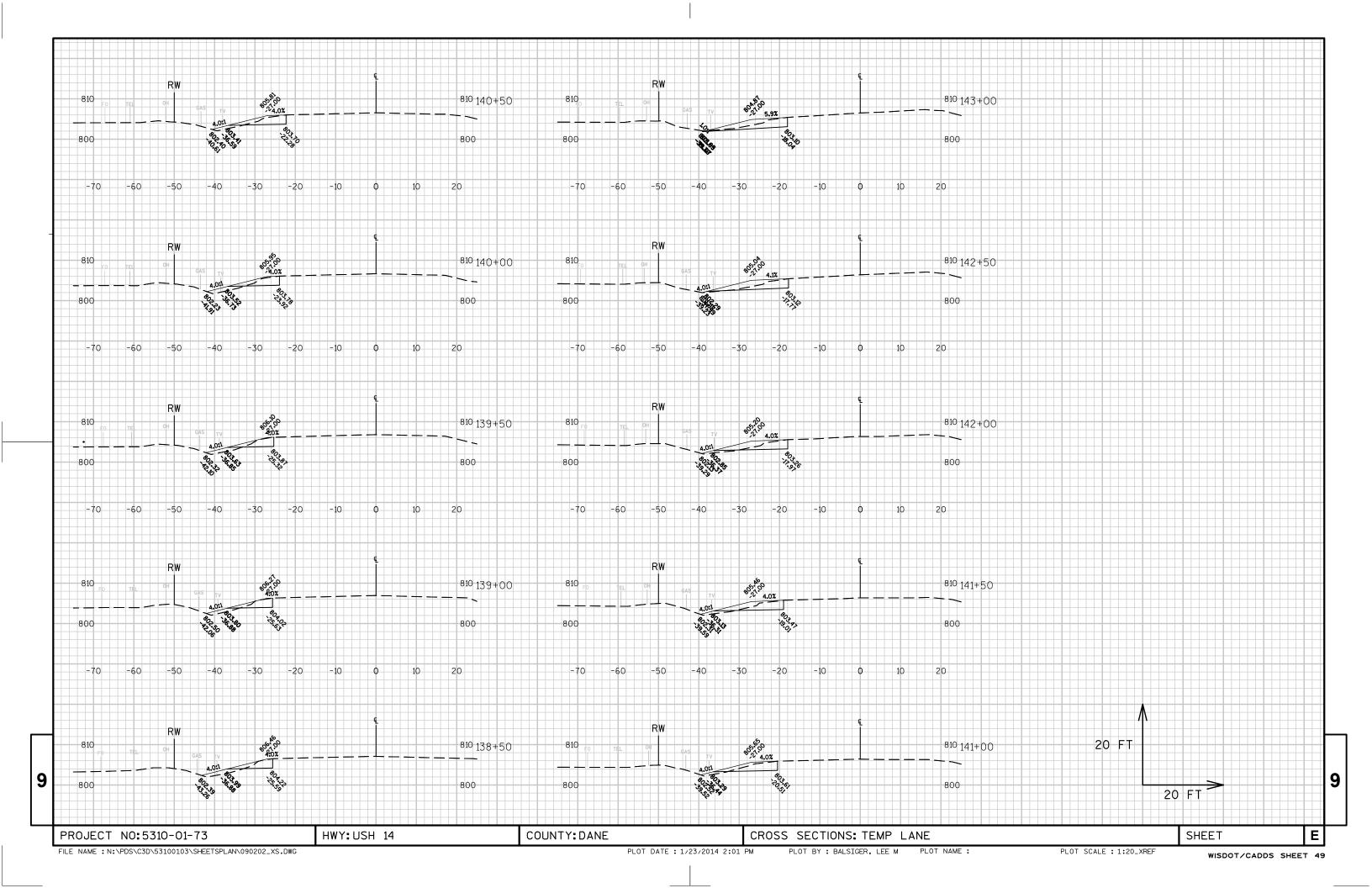
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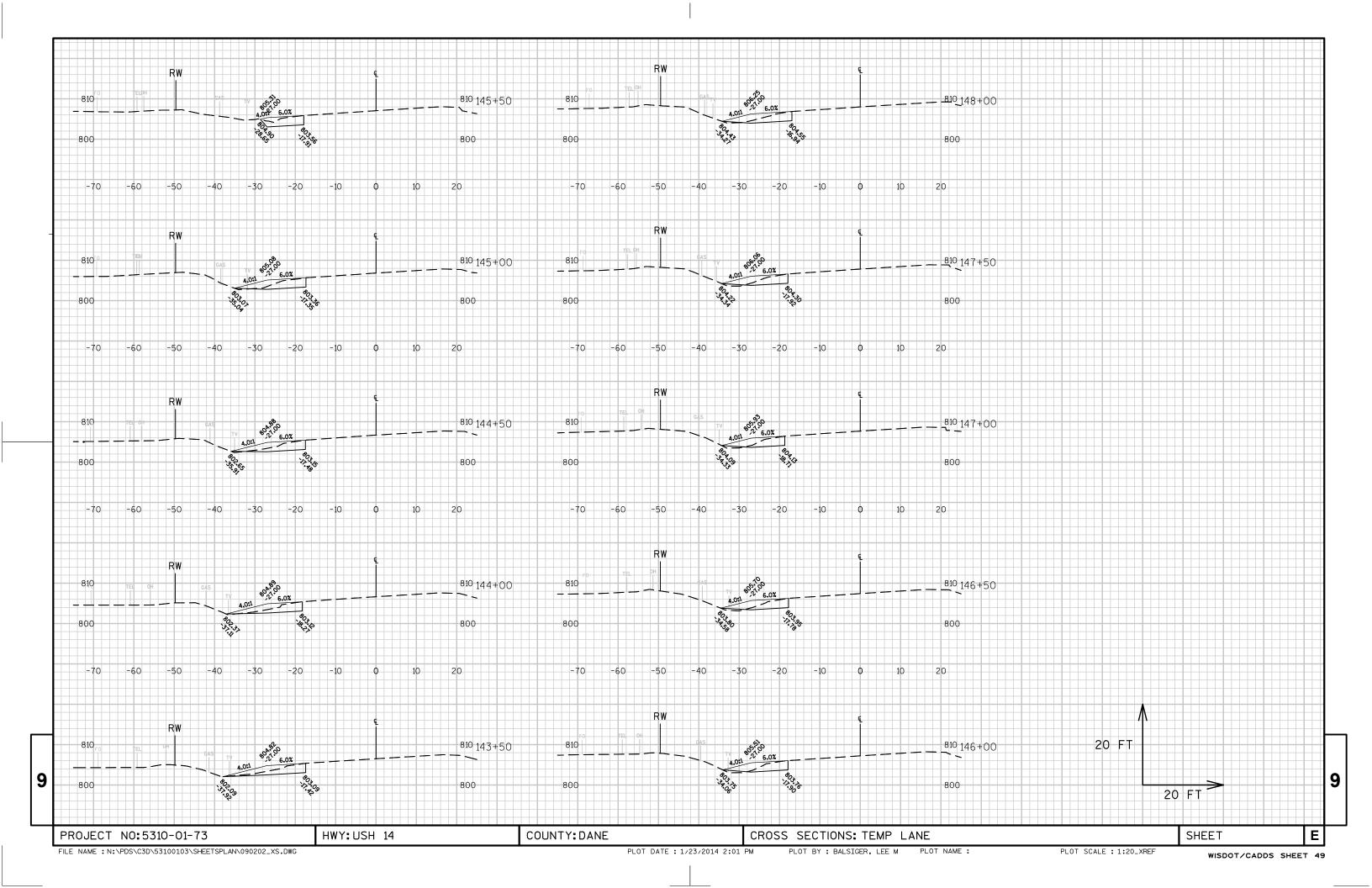
PROJECT NO:5310-01-73 HWY:USH 14 COUNTY:DANE CROSS SECTIONS: COMPUTER EARTHWORK DATA SHEET E

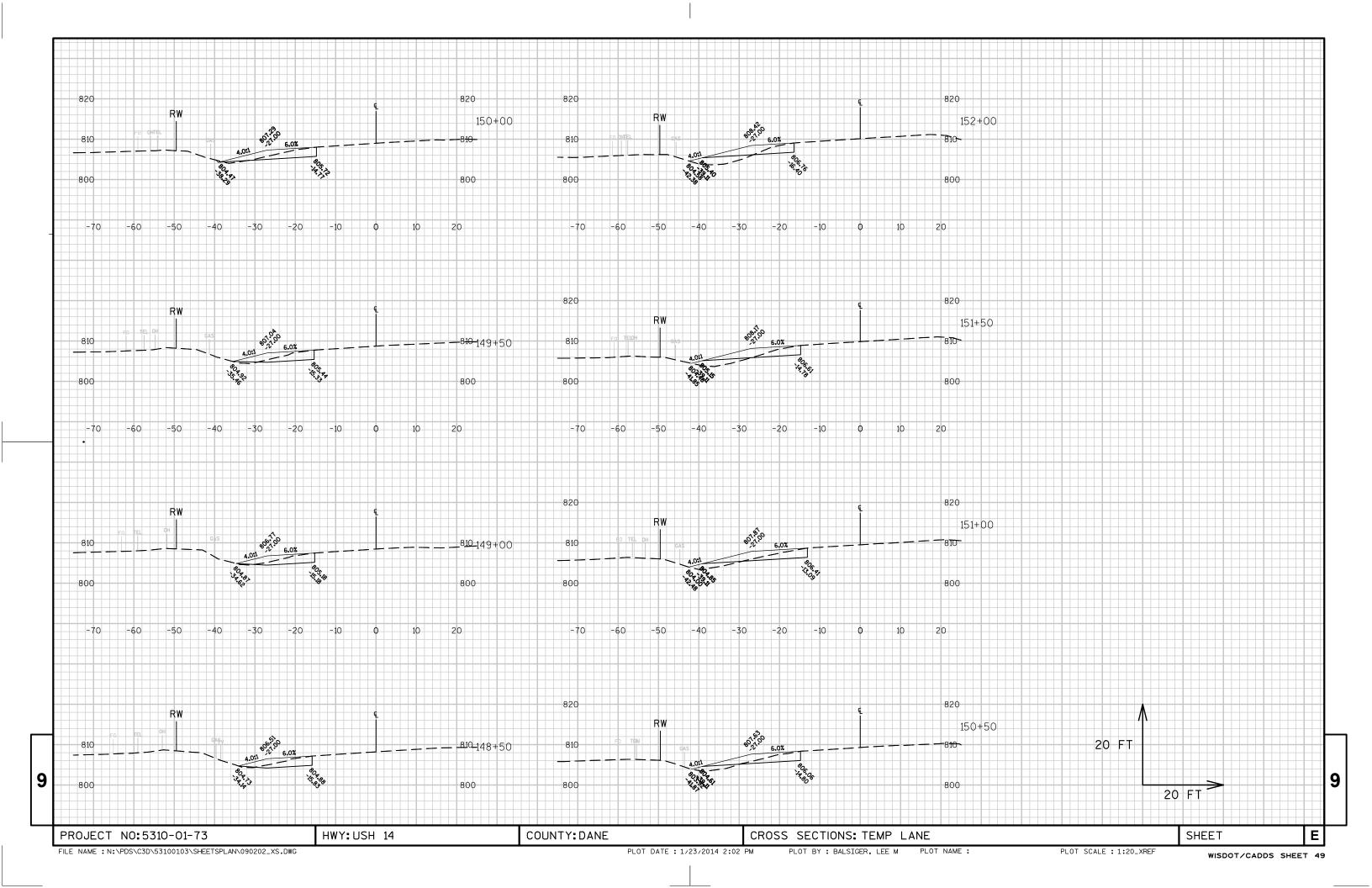


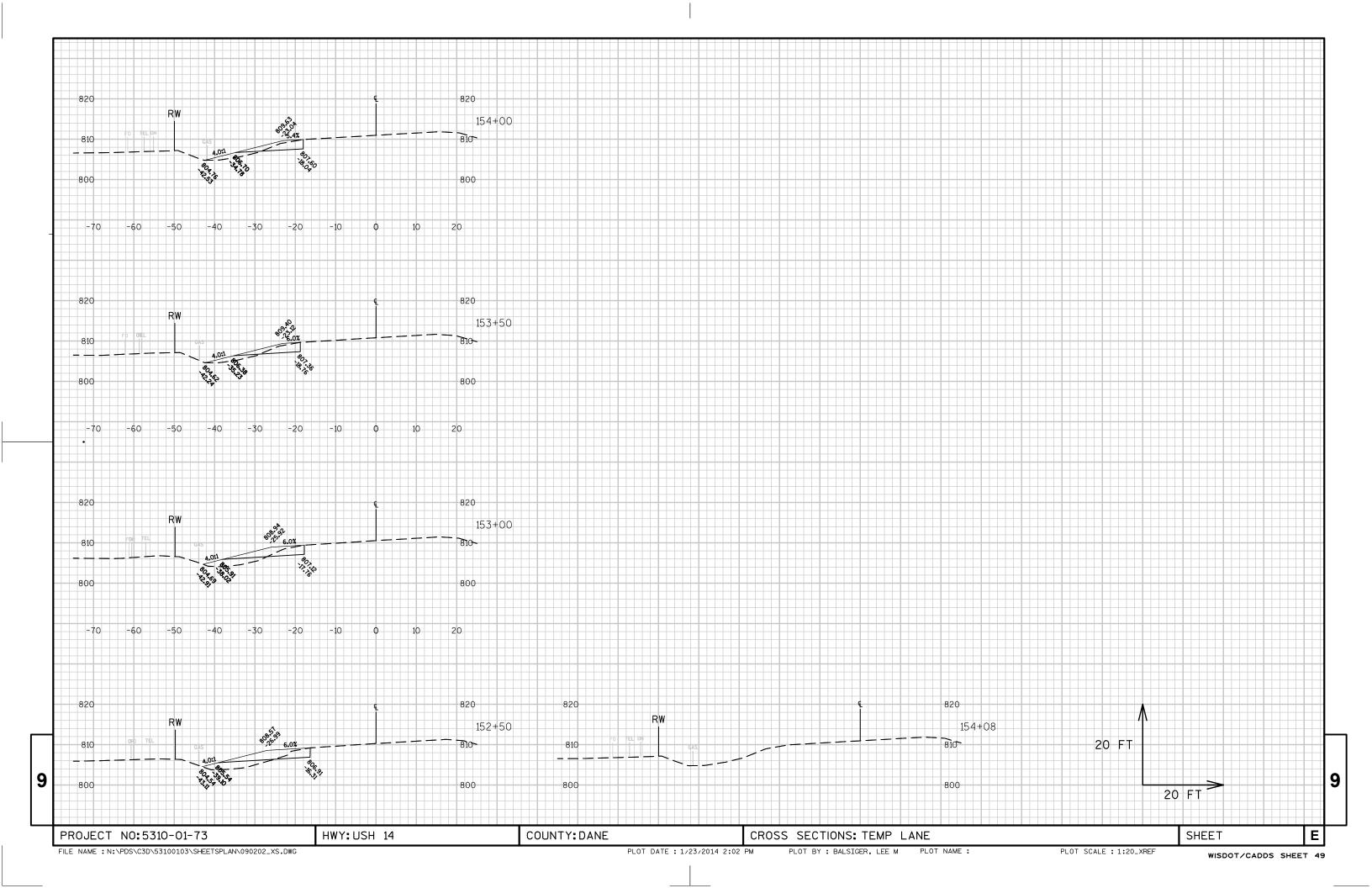


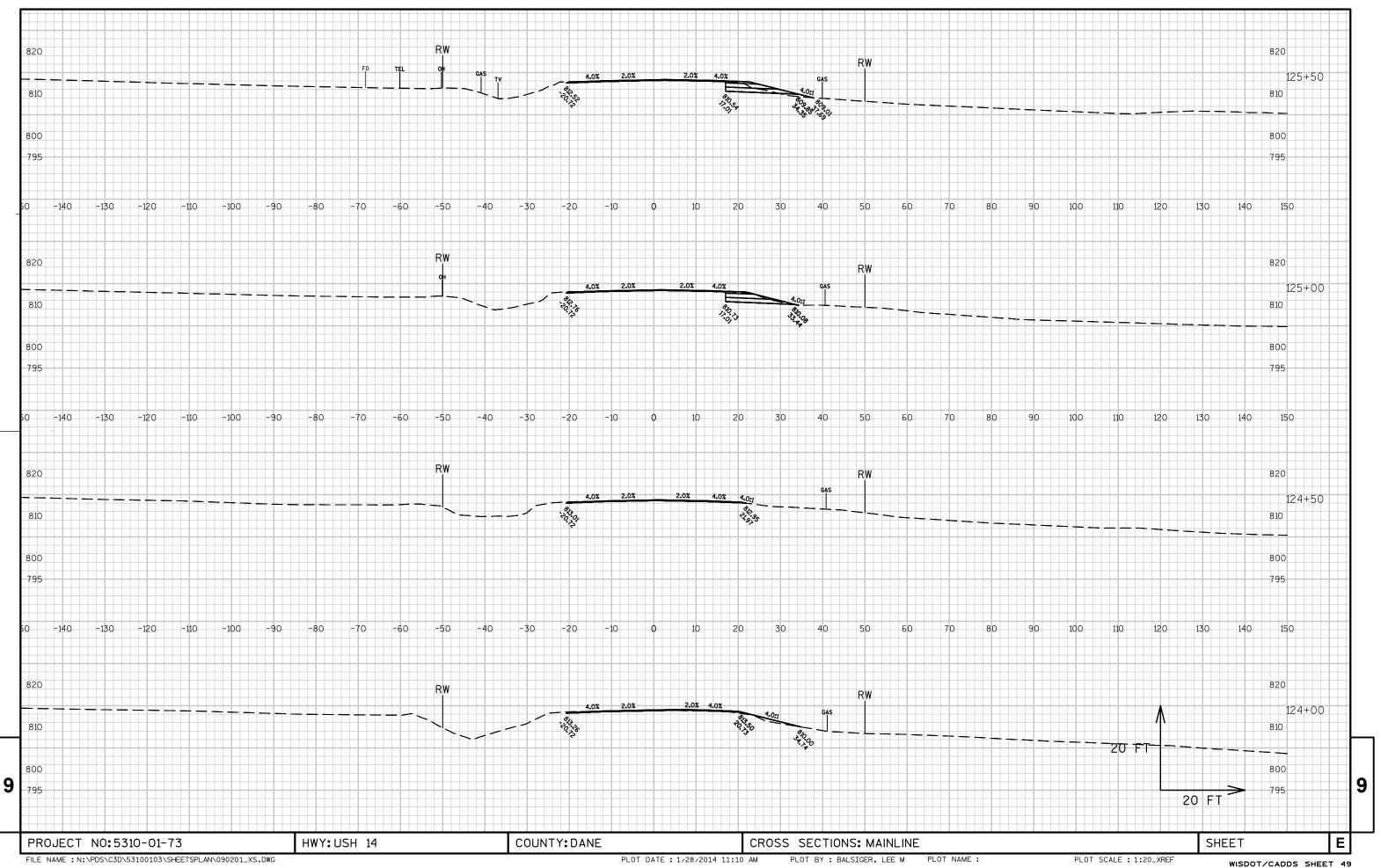


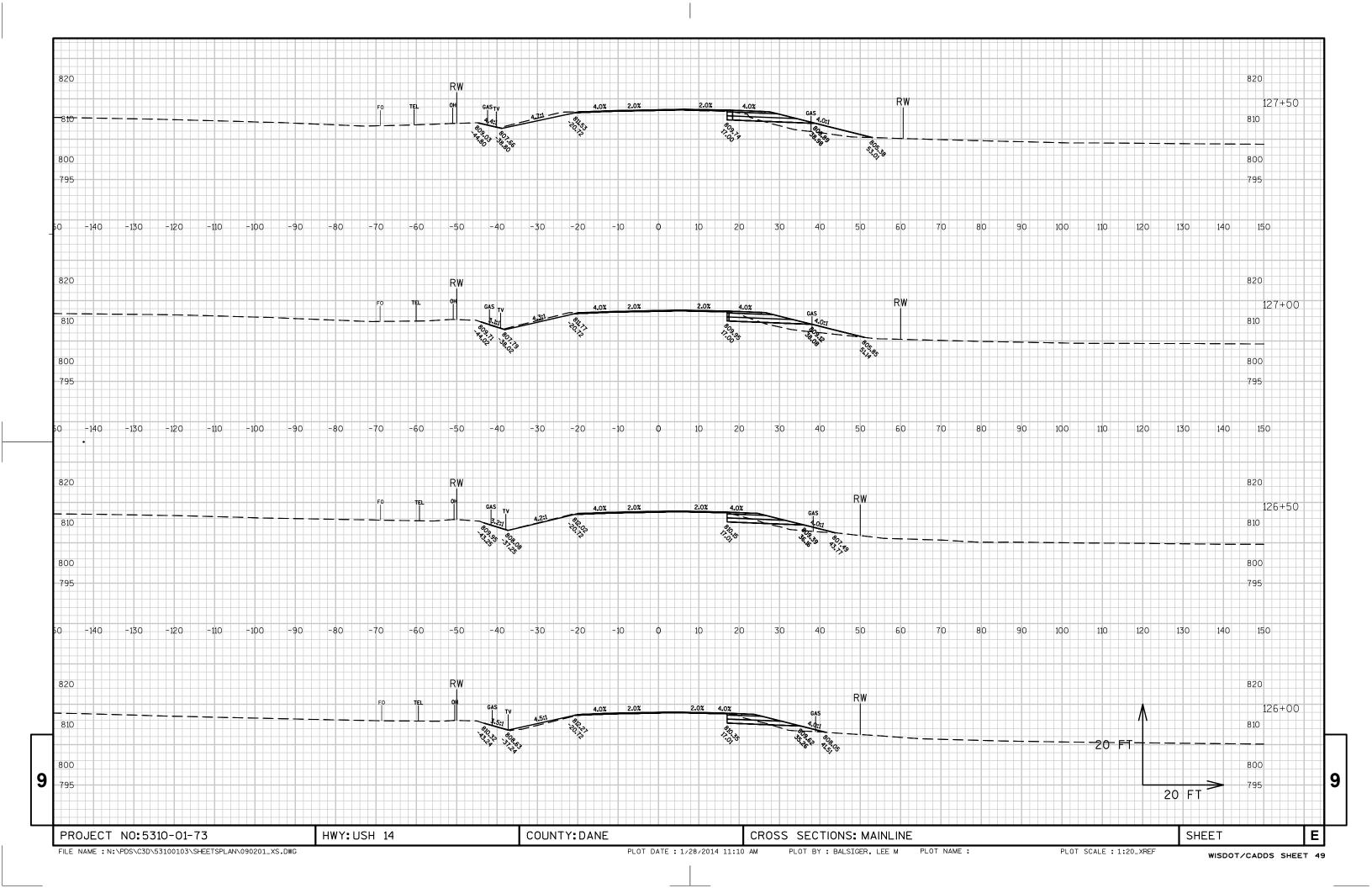


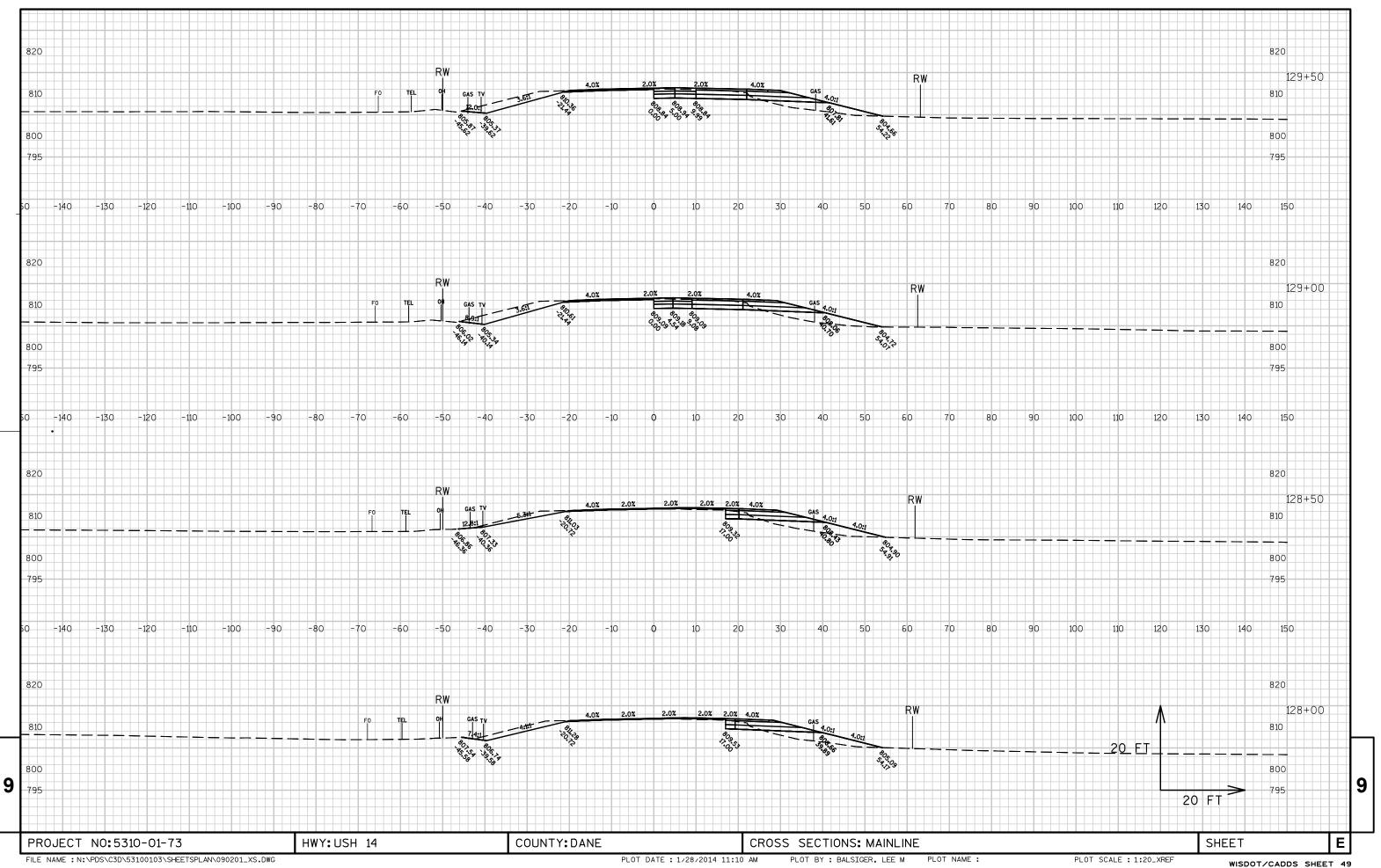


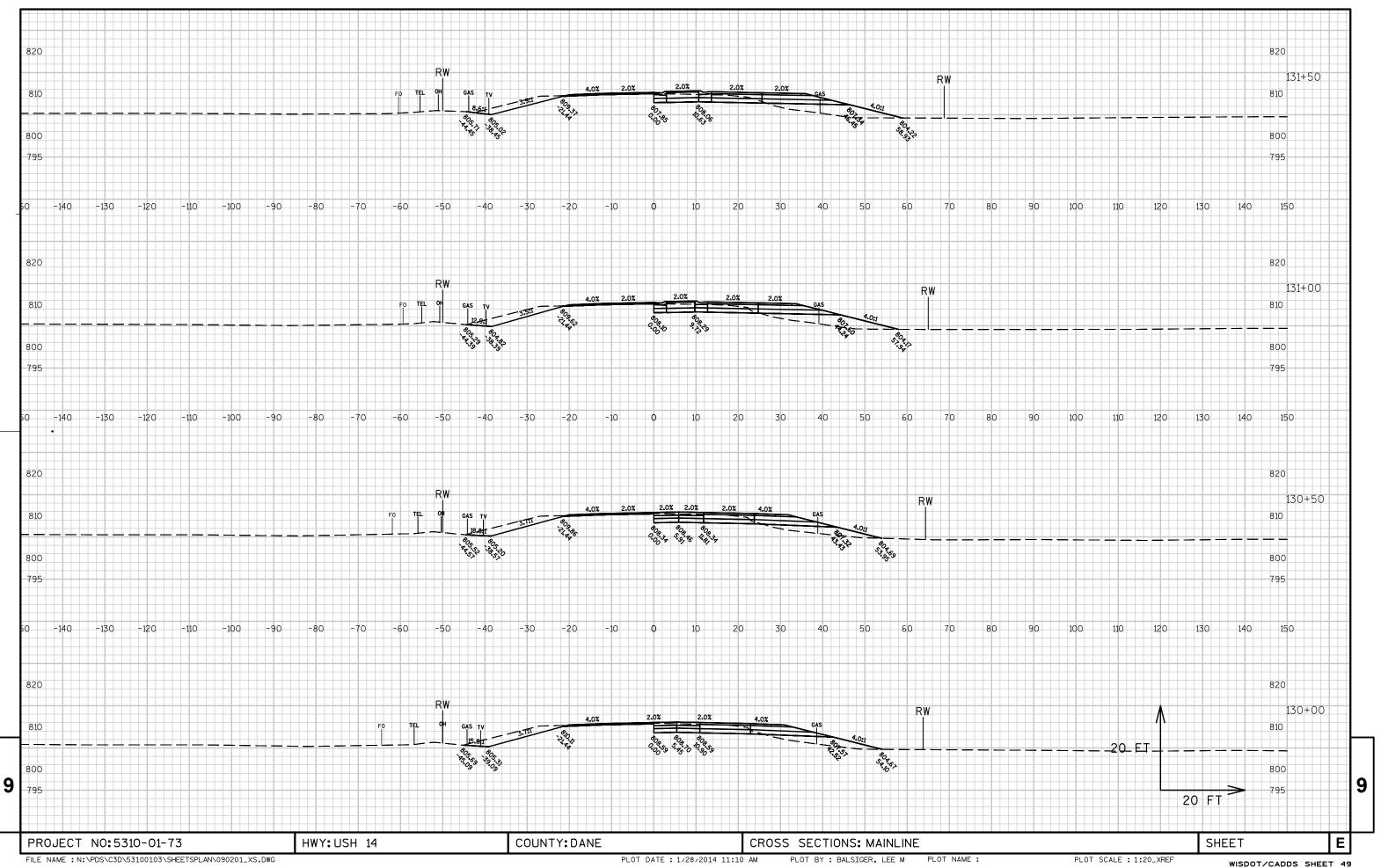


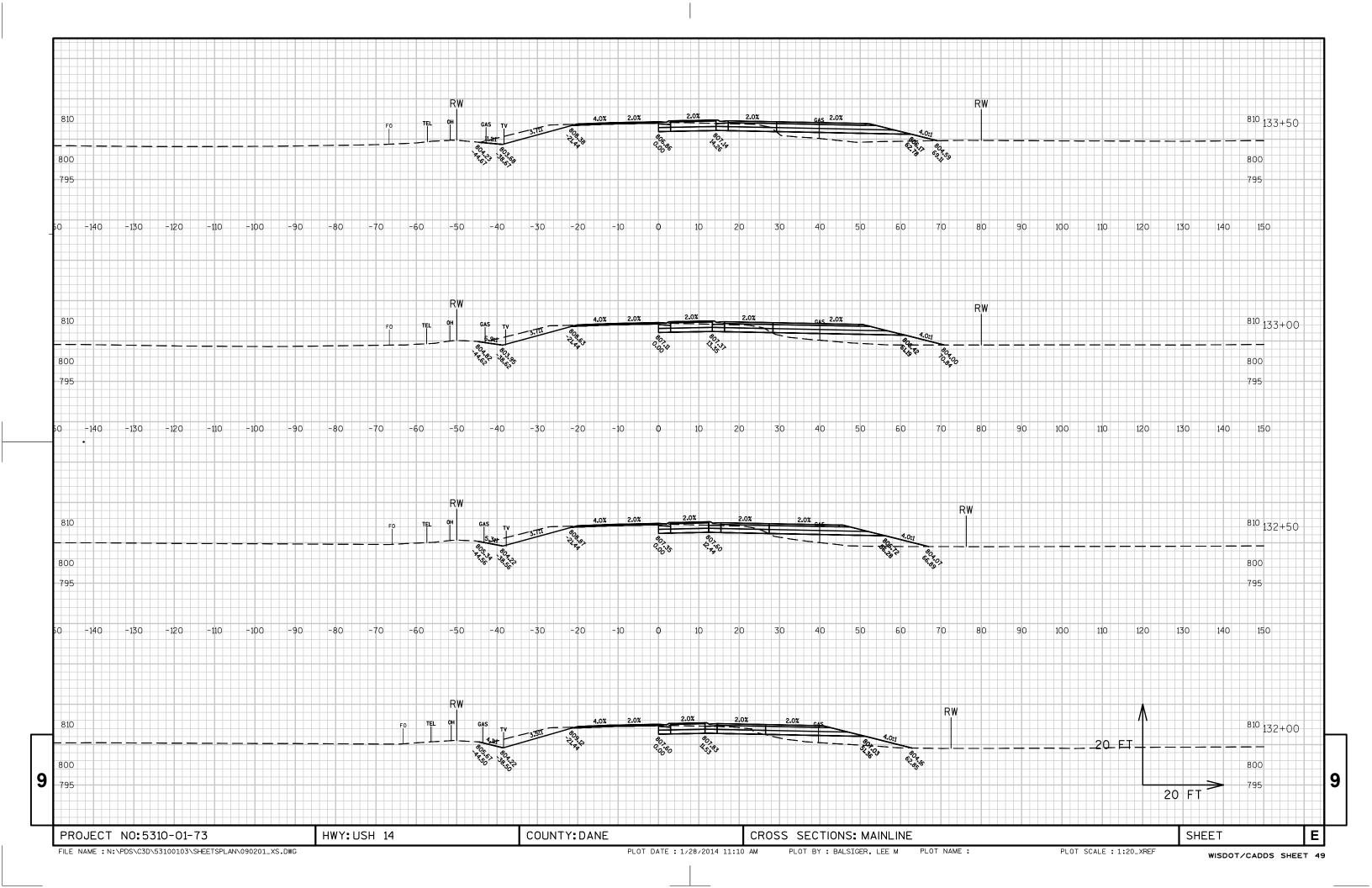


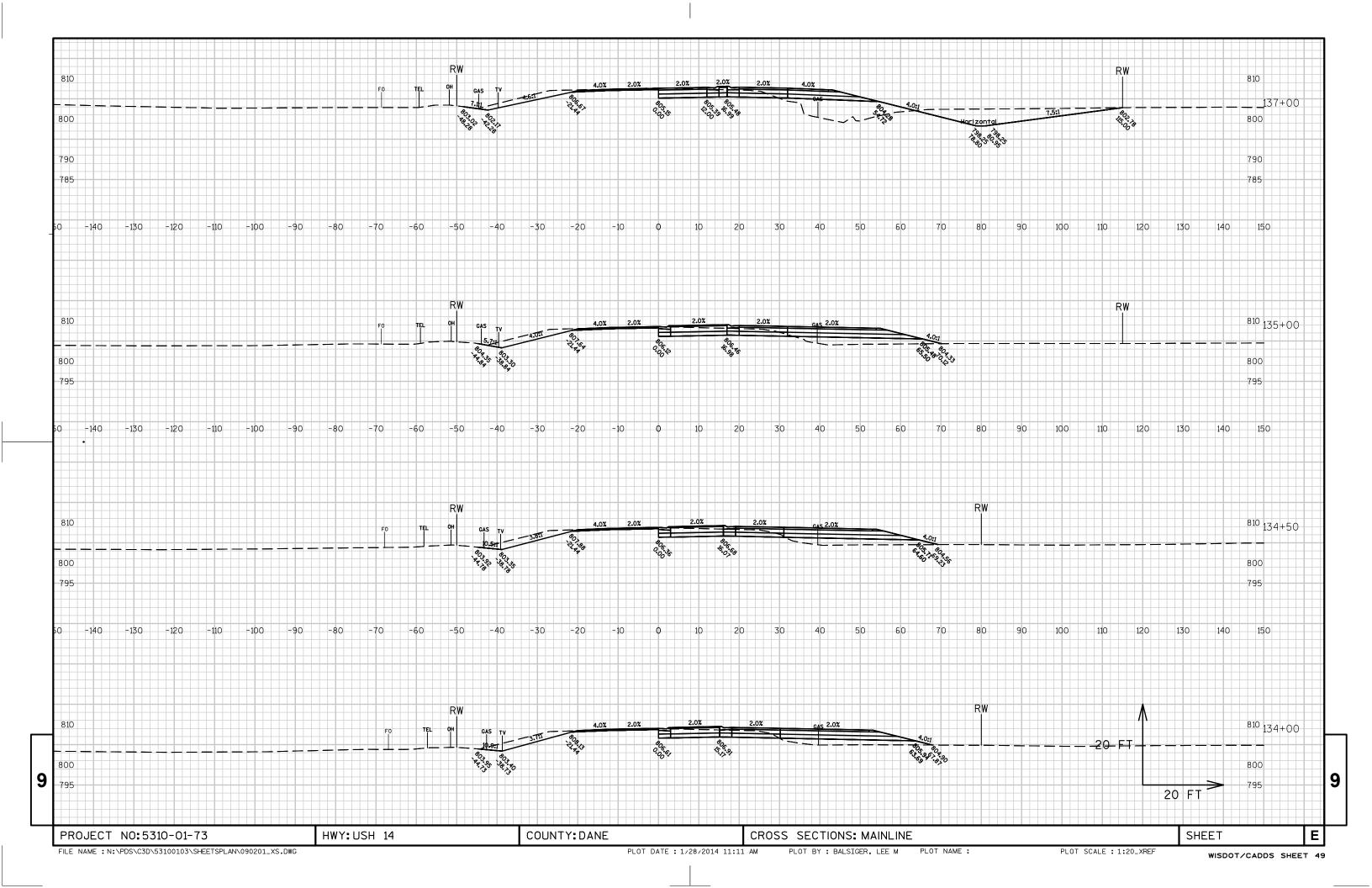


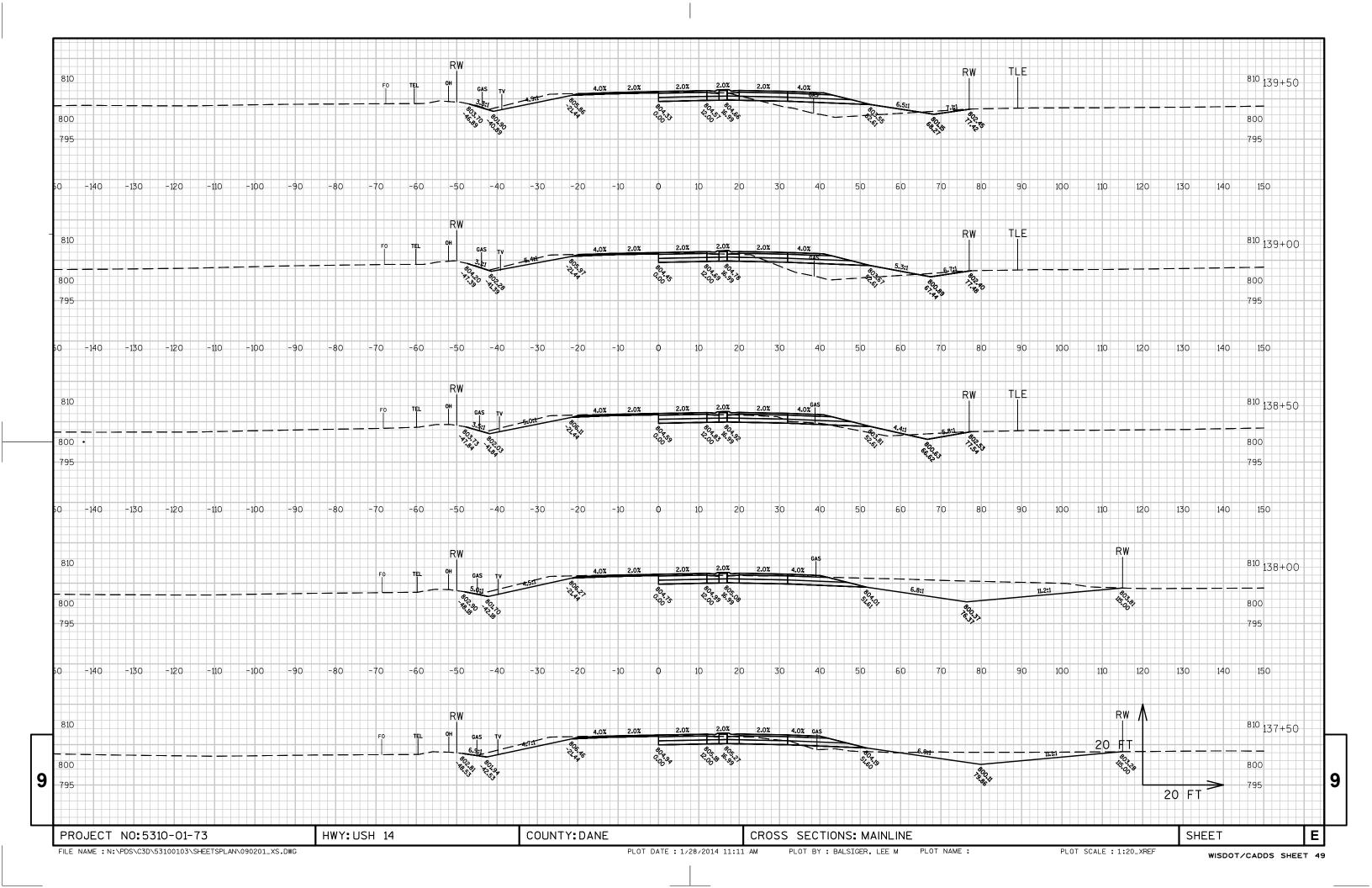


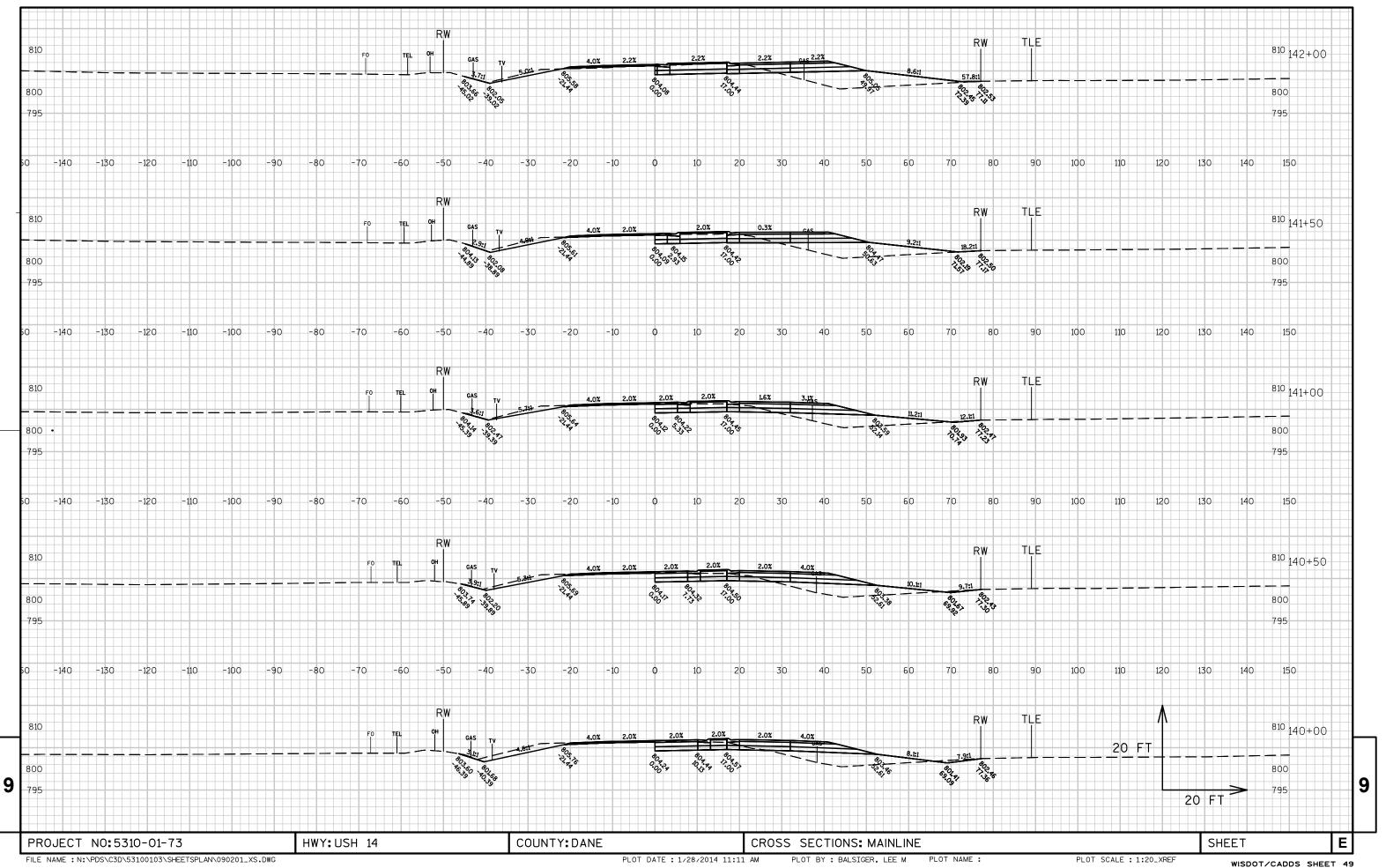


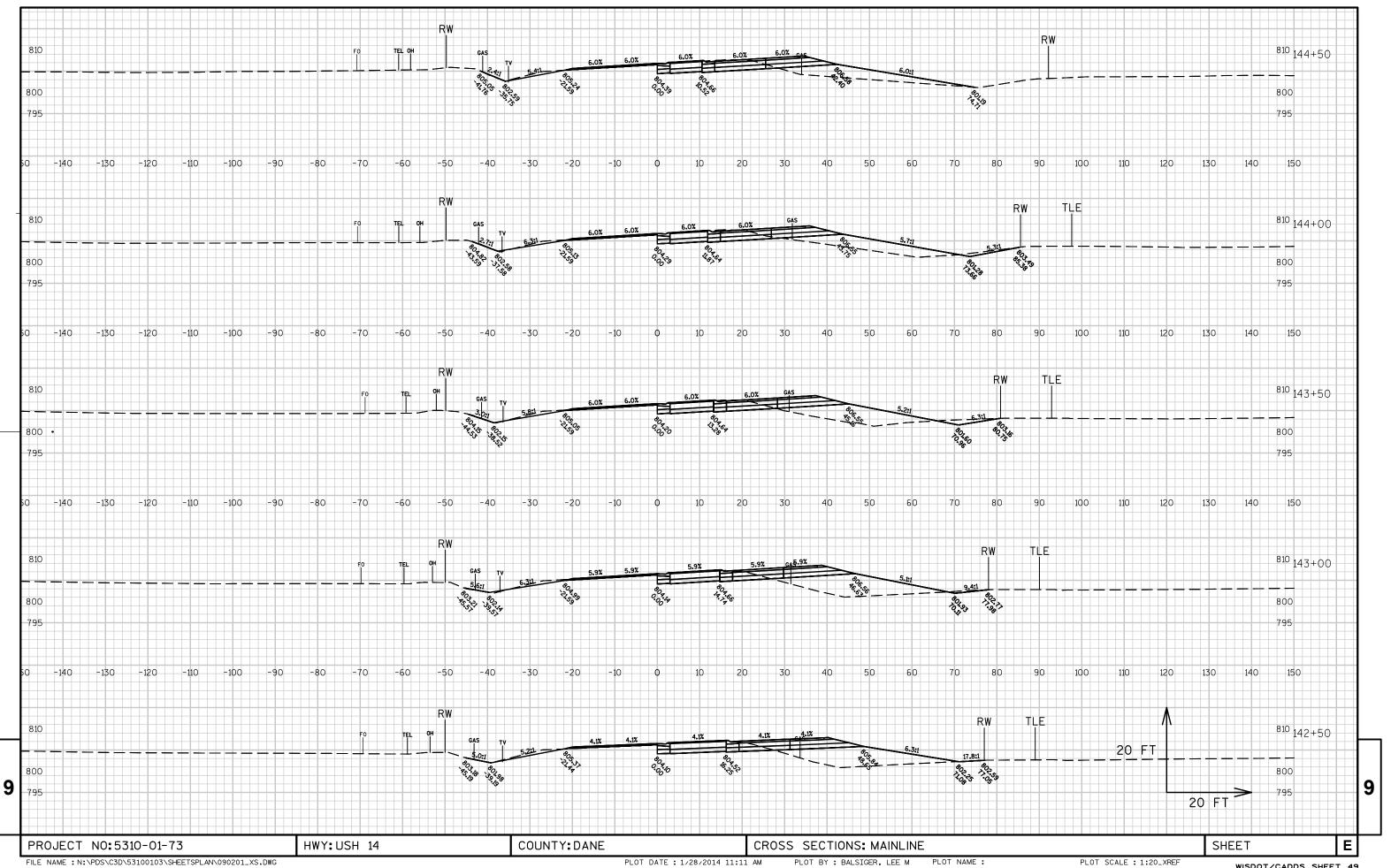


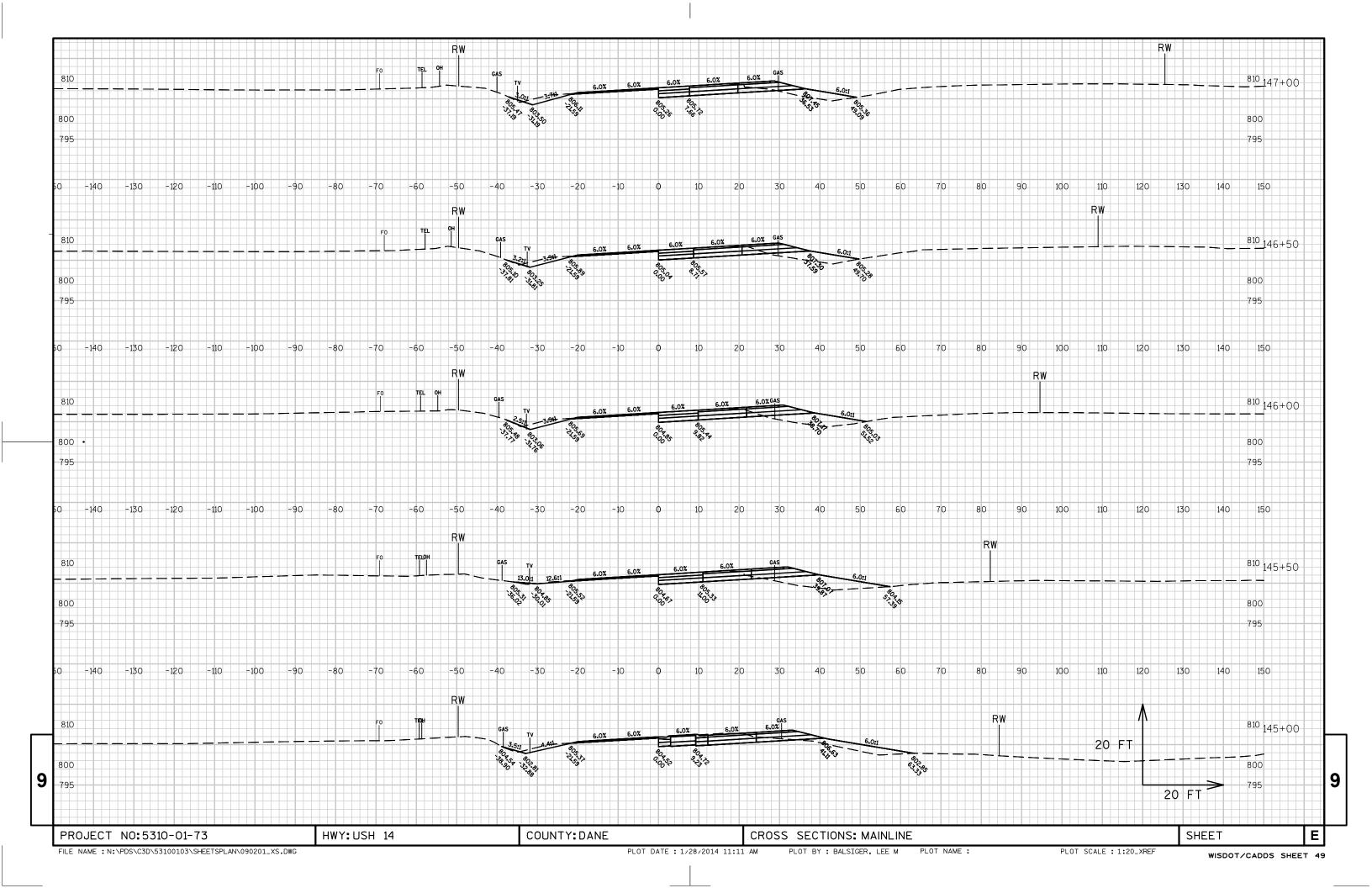


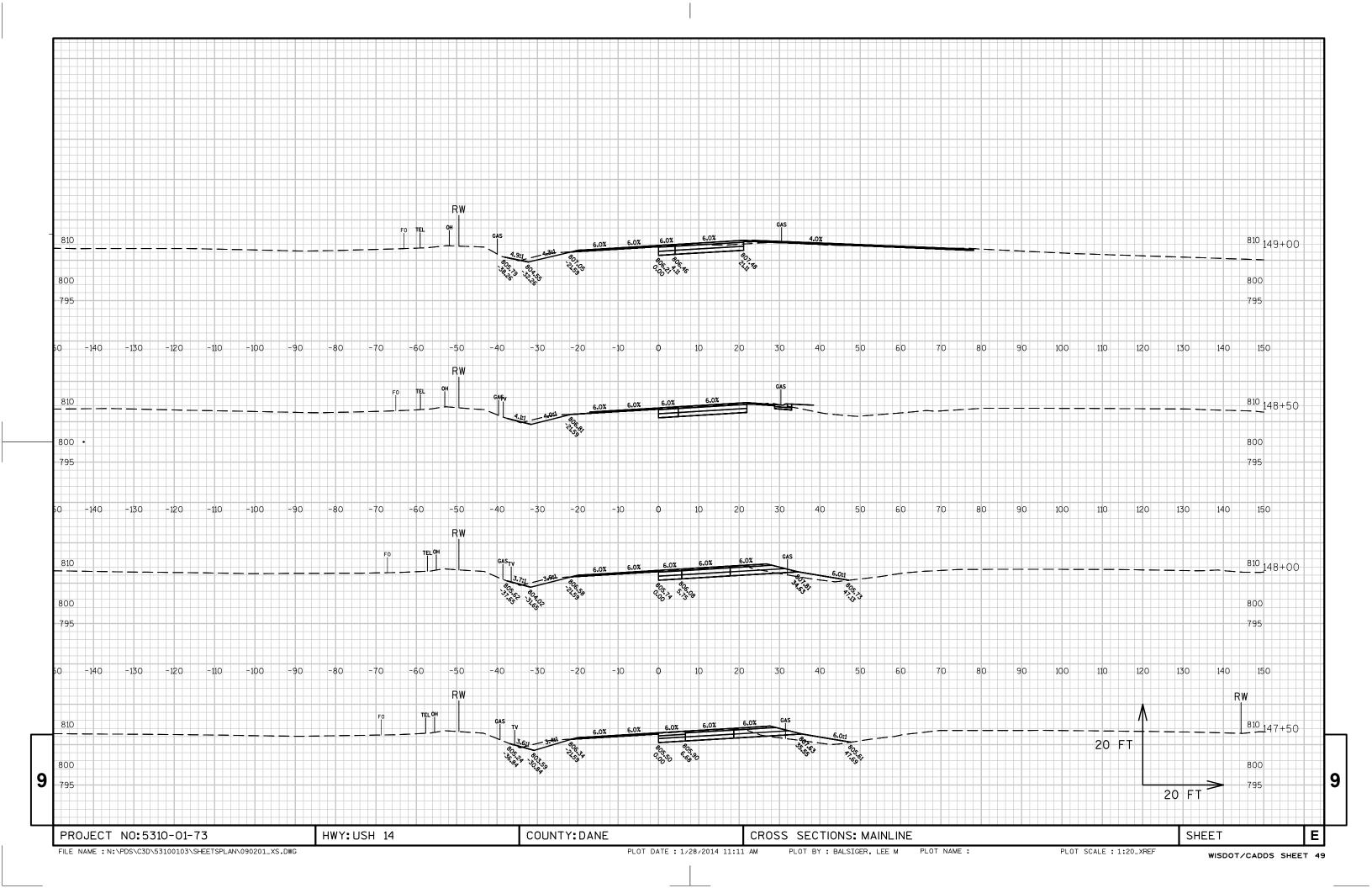


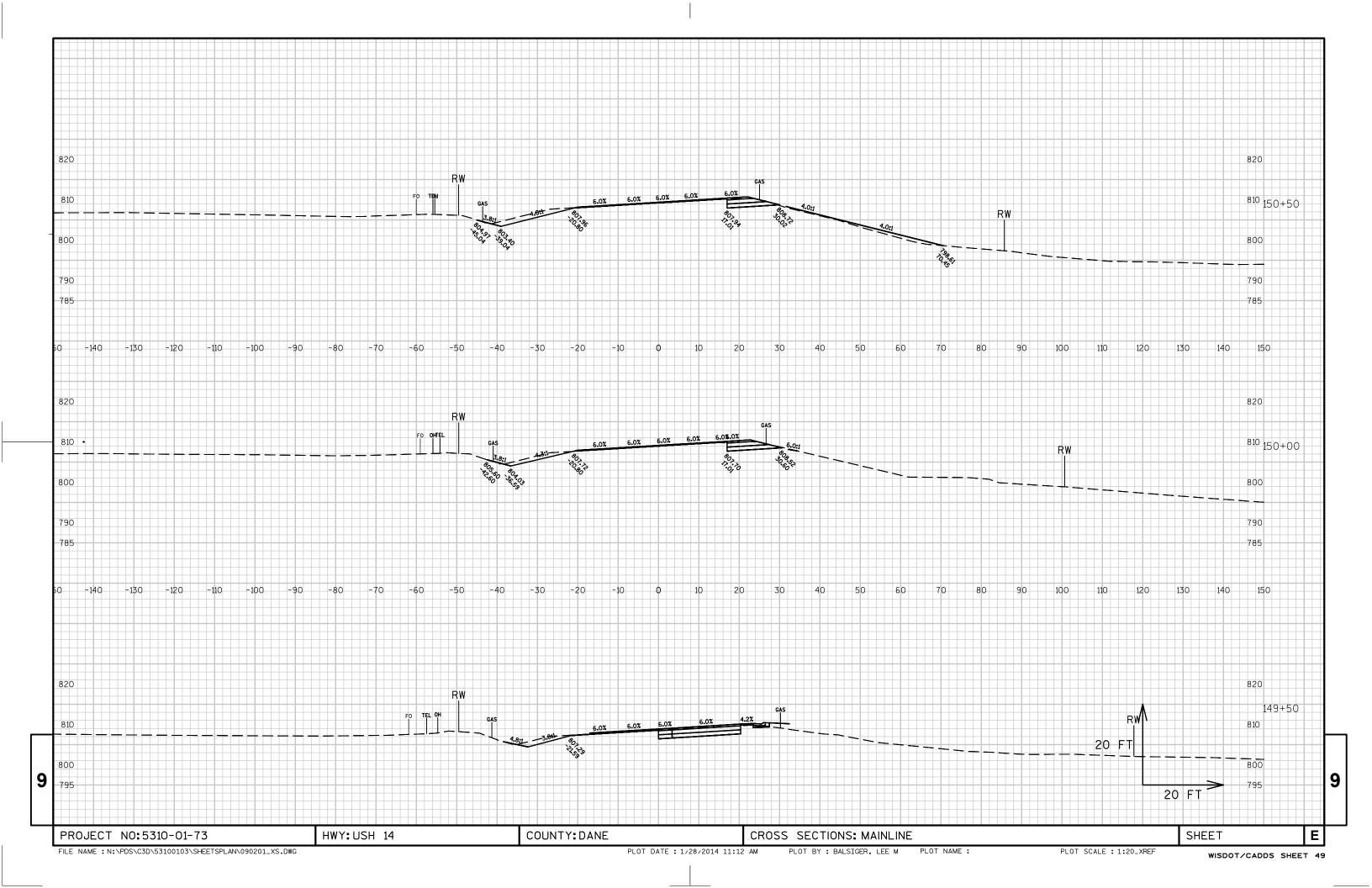


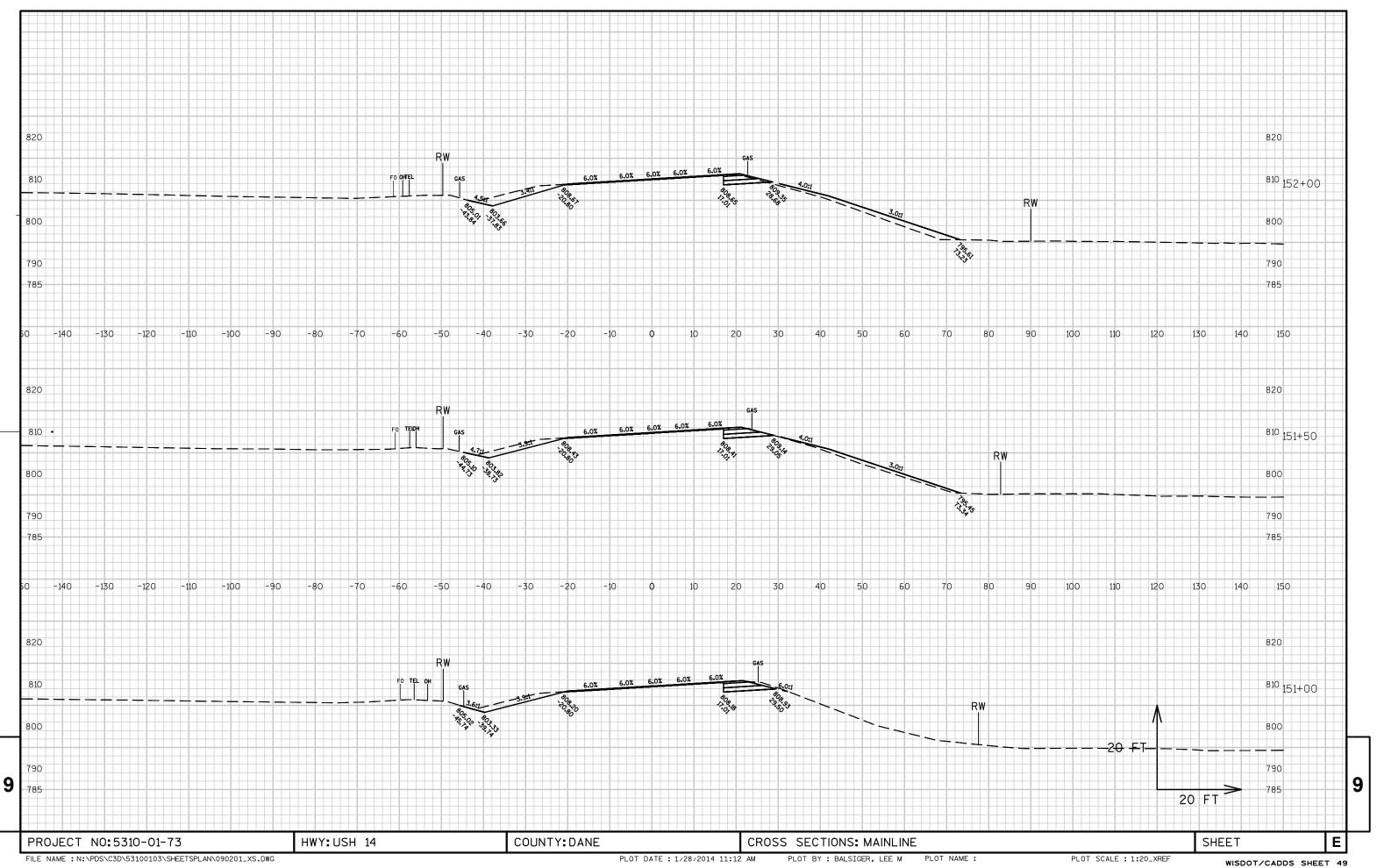


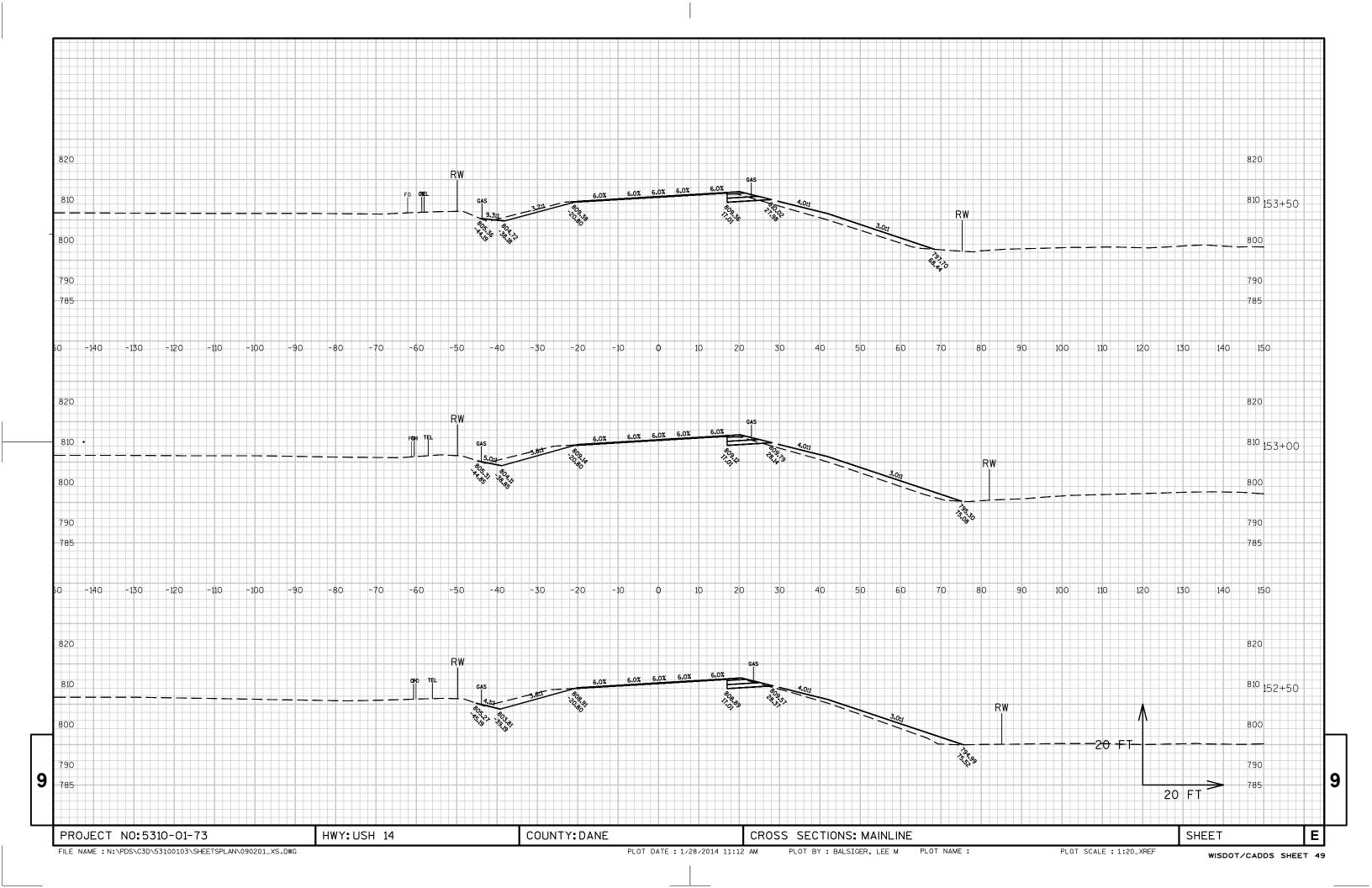


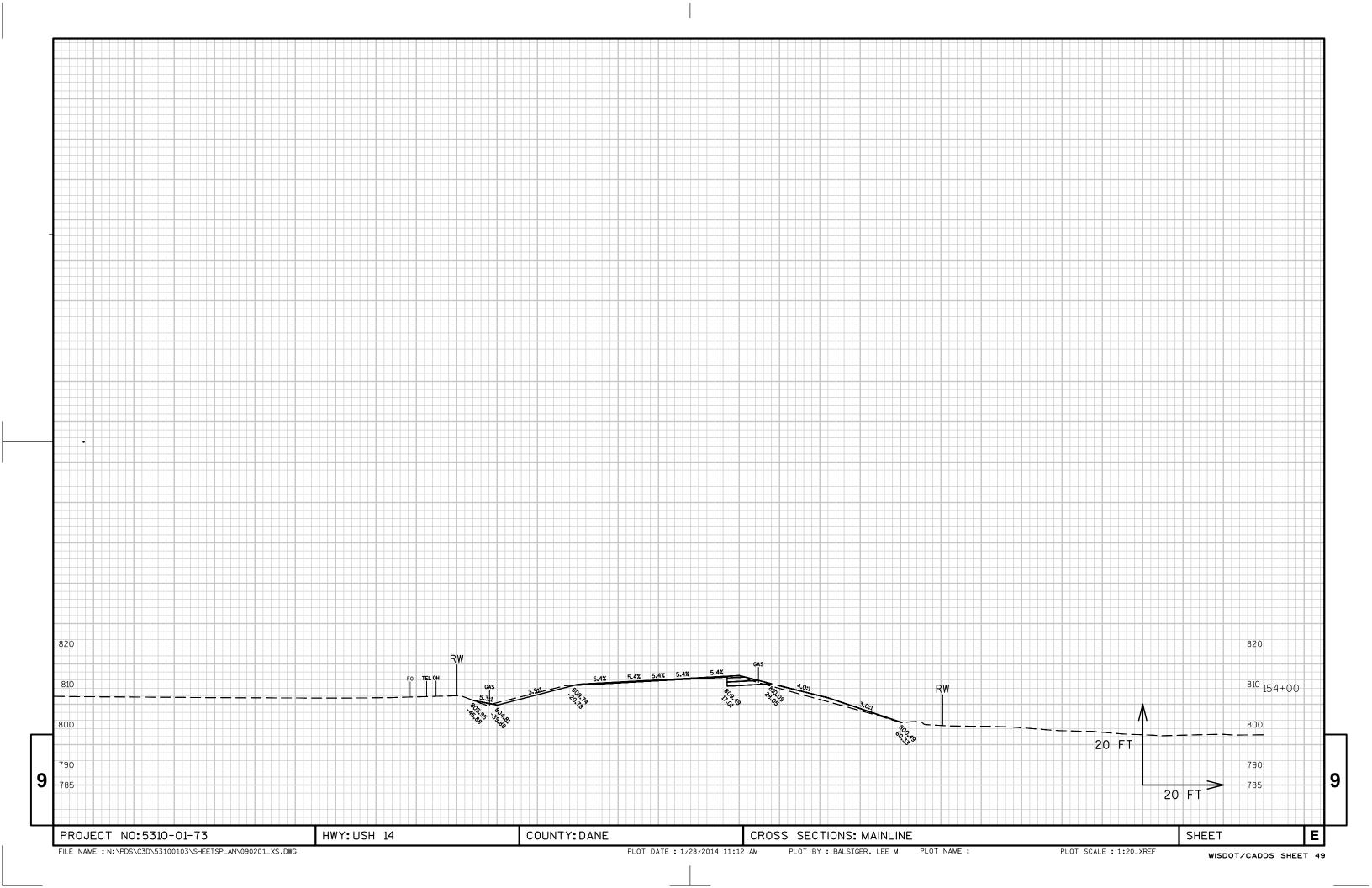


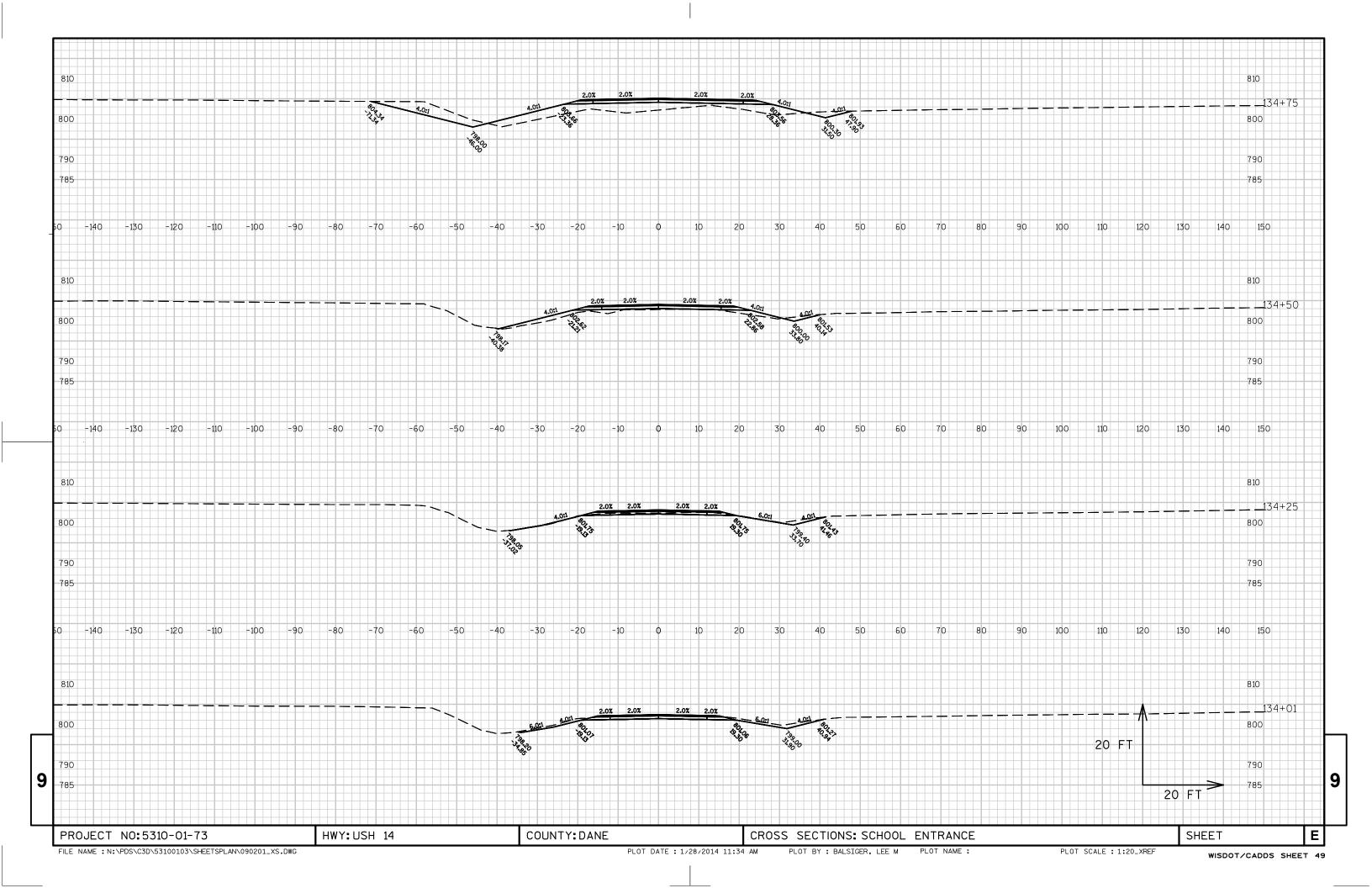


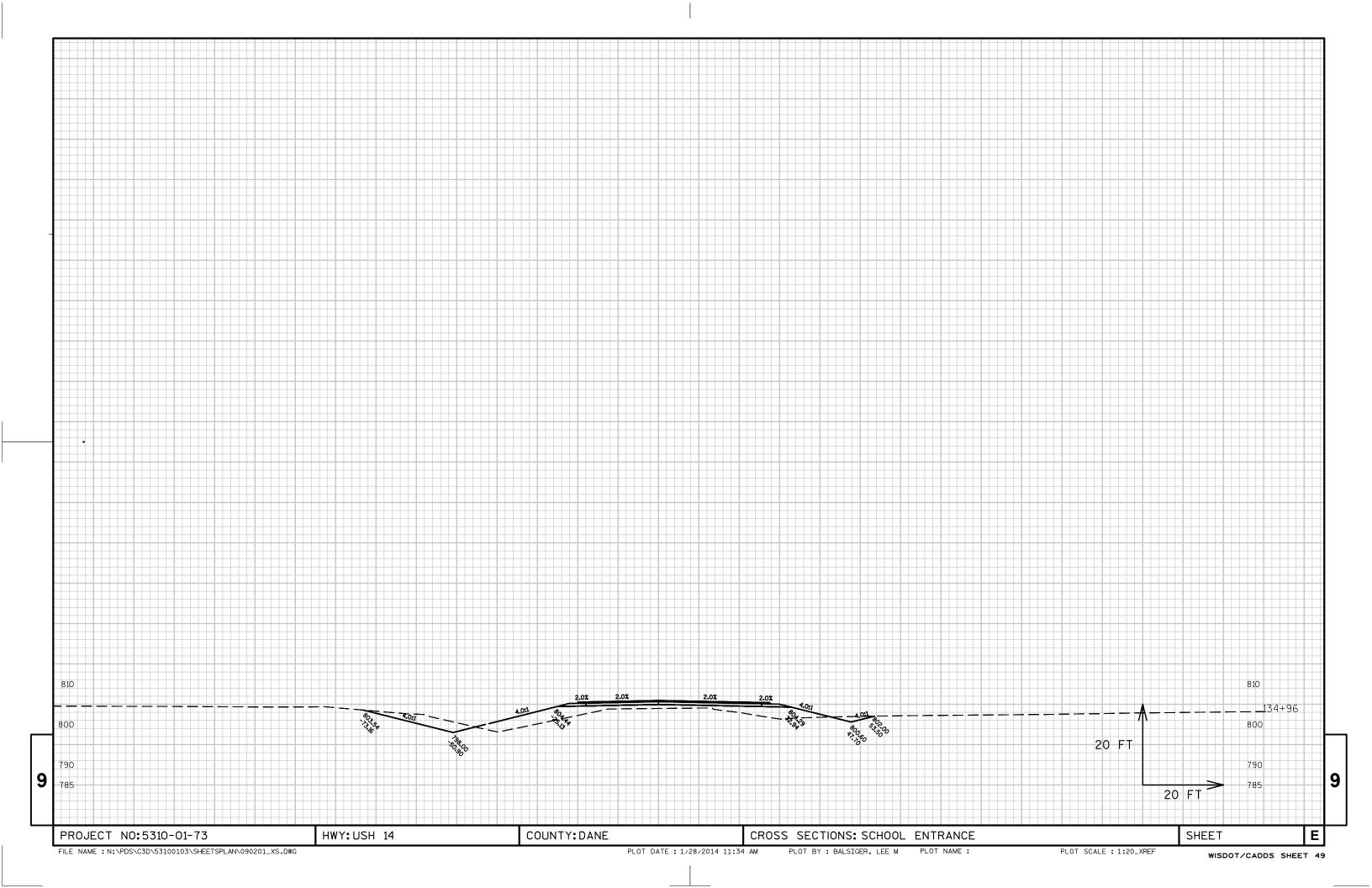


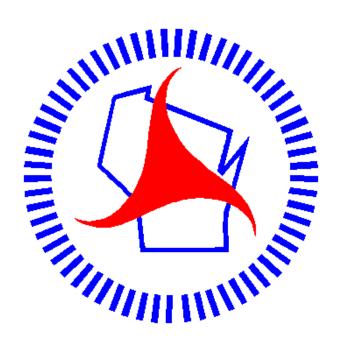












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