PROJECT Ö

MAR 2016

ORDER OF SHEETS

Section No. 1 Section No. 2

Typical Sections and Details (includes Erosion Control plans)

Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 3

Section No. 4 Right of Way Plat Plan and Profile Section No. 5

Standard Detail Drawings Section No. 6

Sign Plates Section No. 7

Computer Earthwork Data Section No. 9

Cross Sections Section No. 9

TOTAL SHEETS = 54

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C FOND DU LAC, N ROLLING MEADOWS DR

N ROLLING MEADOWS DR/S WALMART DR

LOCAL STREET FOND DU LAC

> STATE PROJECT NUMBER 4986-11-71

> > JOHNSON ST



PROFILE

DESIGN DESIGNATION N ROLLING MEADOWS DR

(2018) = 11,800 V.P.D. A.A.D.T. A.A.D.T. (2038) = 14,600 V.P.D. D.H.V. = 1,810 V.P.D. = 59/41 D.D. = 3.4%

DESIGN SPEED = 40 M.P.H. **ESALS** = 970.900 (HMA)

CONVENTIONAL SYMBOLS

EXISTING CUI VERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE

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

END PROJECT

STA. 14+09.15

BEGIN PROJECT

STA.11+30.60

Y = 388726.863 X = 806695.512

R-17-E LAYOUT

LAKE

WINNEBAGO

CITY OF

FOND DULEAC

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, FOND DU LAC COUNTY, NAD83 (1997), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FEDERAL PROJECT STATE PROJECT CONTRACT **PROJECT** WISC 2016060 4986-11-71 1

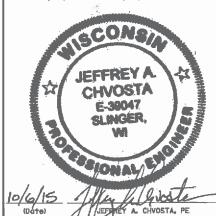
ACCEPTED FOR

PAUL DEVRIES CITY ENGINEER

ORIGINAL PLANS PREPARED BY



93 South Floneer Road, Suite 300 • Fond du Lac, WI 54935 (920) 924-5720 • fax (920) 924-5725



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor Dealgner

GREMMER & ASSOCIATES, INC.

GREMMER & ASSOCIATES, INC.

JT ENGINEERING, INC.

Consultant C.O. Examiner

(Management Consultant Signature)

TELEPHONE POLE

TOTAL NET LENGTH OF CENTERLINE = 0.053 MI

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK ANY LITHLITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY

A VERTICAL SAW CUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS, SIDEWALKS, CURB & GUTTER, AND PAVEMENTS AT THE REMOVAL LIMITS.

SAWCUT LOCATIONS SHOWN ON THE PLANS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC PAVEMENT SHALL BE MEASURED AND PAID FOR AS

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

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE

TOPSOIL, FERTILIZER, SEED AND MULCH OR EROSION MAT AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS. ENTRANCES, AND RELATED STRUCTURES.

SECTIONS AS SHOWN ON THE CROSS-SECTIONS INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED

CONTRACTOR SHALL VERIFY EXISTING PIPE SIZES, MATERIALS AND INVERT ELEVATIONS WHEN CONNECTING NEW STORM SEWER INTO EXISTING PIPES PRIOR TO MANUFACTURING INLETS AND MANHOLES

ADDITIONAL DOWEL BARS AND CONTRACTION JOINTS DOWEL ASSEMBLIES REQUIRED TO MATCH MANHOLES, INLETS, AND SIDE ROADS SHALL BE INCIDENTAL TO THE CONCRETE PAVEMENT ITEM.

EROSION CONTROL ITEMS SHOWN ARE APPROXIMATE, THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ABBREVIATIONS

CY

RHF

RO

RT

SB SC

SS

ST

STA

TS

TYP

APRON ENDWALL AEW AGG AGGREGATE AHEAD **ASPHALT** BK BAD BACK BASE AGGREGATE DENSE BENCH MARK CENTER OF CURVATURE COMMERCIAL ENTRANCE CE C&G CURB AND GUTTER CENTER OR CONSTRUCTION LINE CONC CONCRETE CULVERT PIPE CULVERT PIPE CORRUGATED METAL CPCM CPCS

CULVERT PIPE CORRUGATED STEEL CPRC CS CULVERT PIPE REINFORCED CONCRETE CURVE SPIRAL, THE POINT OF CHANGE IN ALIGNMENT FROM CURVE TO SPIRAL CSD CONCRETE SURFACE DRAIN CUBIC YARD DEGREE OF CURVE

DISCHARGE DISCH EXTERNAL DISTANCE FROM MIDPOINT OF CIRCULAR CURVE FROM ANGLE INTERSECTION

ELEV FIEVATION FIELD ENTRANCE НМА HOT MIX ASPHALT HIGH POINT HEIGHT INV INVERT LENGTH OF CURVE LEFT HAND FORWARD LOW POINT LENGTH OF SPIRAL

LEFT MAXIMUM ΜΔΧ MINIMUM MIN MATCHLINE M/L NORTHBOUND NORMAL CROWN NOM NOMINAL NORMAL PAVT PAVEMENT PC PCC POINT OF CURVE POINT OF COMPOUND CURVE

PRIVATE ENTRANCE PE POINT OF INTERSECTION
PERMANENT LIMITED EASEMENT PLE POINT OF TANGENT PT RADIUS OF CURVE R/L R/W REFERENCE LINE RIGHT OF WAY REVERSE CROWN RCAEW

APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE REINFORCED CONCRETE PIPE

RCP REQ'D REQUIRED RIGHT HAND FORWARD RUN OFF LENGTH RIGHT SALV SALVAGED

SOLITHROLIND SPIRAL CURVE, THE POINT OF CHANGE IN ALIGNMENT FROM SPIRAL TO CURVE STANDARD DETAIL DRAWING

SDD SE SEG SUPER ELEVATION SEGMENT **SQUARE FOOT** STORM SEWER

STORM SEWER PIPE REINFORCED CONCRETE SSPRC SPIRAL TANGENT, THE POINT OF CHANGE IN ALIGNMENT FROM SPIRAL TO TANGENT STATION

SQUARE YARD TANGENT LENGTH TEMPORARY LIMITED EASEMENT TLE TANGENT SPIRAL, THE POINT OF CHANGE IN ALIGNMENT FROM TANGENT TO SPIRAL

VELOCITY OR DESIGN SPEED V VC VCL VPC VPI VPRC VERTICAL CURVE VERTICAL CURVE LENGTH POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVE POINT OF VERTICAL TANGENT

VPT WB WESTBOUND WISCONSIN CENTRAL LTD. WCI

ORDER OF SECTION 2 SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAILS PAVING DETAILS **EROSION CONTROL PLAN**

STORM SEWER LAYOUT SIGNING & PAVEMENT MARKING PLAN

TRAFFIC CONTROL

UTILITIES

ELECTRIC & GAS

* ALLIANT ENERGY CORPORATION (MAIN OFFICE) 4902 NORTH BILTMORE LANE MADISON, WI 53718-2148 PHONE: (608) 458-4871 MOBILE: (608) 395-7395 ATTN: JASON HOGAN EMAIL: JasonHogan@alliantenergy.com

COMMUNICATIONS

* AT&T 70 EAST DIVISION STREET FOND DU LAC, WI 54935 PHONE: (920) 929-8459 MOBILE: (920) 202-0652 ATTN: LISA SUPRENAND EMAIL: ad5647@att.com

COMMUNICATIONS

* CHARTER COMMUNICATIONS 1623 BROADWAY AVENUE SHEBOYGAN, WI 53081 PHONE: (608) 826-1619 MOBILE: (920) 263-0074 ATTN: BRUCE HENRY EMAIL: bruce.henry@chartercom.com

* DENOTES MEMBER OF DIGGERS HOTLINE

ELECTRICAL

* CITY OF FOND DU LAC 530 DOTY STREET FOND DU LAC, WI 54935 PHONE: (920) 322-3542 ATTN: STEPHEN KEES EMAIL: skees@fdl.wi.gov

WATER

* CITY OF FOND DU LAC 109 NORTH MACY STREET P.O. BOX 150 FOND DU LAC, WI 54936-0150 PHONE: (920) 322-3682 MOBILE: (920) 960-5458 ATTN: KATHY SCHARF EMAIL: kscharf@fdl.wi.gov

SEWER

* CITY OF FOND DU LAC 160 SOUTH MACY STREET P.O. BOX 150 FOND DU LAC, WI 54936-0150 PHONE: (920) 322-3473 MOBILE: (920) 517-7890 ATTN: PAUL DEVRIES EMAIL: pdevries@fdl.wi.gov



DNR AREA LIAISON

WISCONSIN DEPT. OF NATURAL RESOURCES 2984 SHAWANO AVENUE GREEN BAY, WI 54313 PHONE: (920) 662-5130 ATTN: MR. JAY SCHIEFELBEIN EMAIL: jeremiah.schefelbein@wisconsin.gov

CITY OF FOND DU LAC CONTACT

MR. PAUL DEVRIES CITY ENGINEER 160 SOUTH MACY STREET FOND DU LAC, WI 54936 PHONE: (920) 322-3473 EMAIL: pdevries@fdl.wi.gov

PROJECT NO: 4986-11-71

HWY: ROLLING MEADOWS DRIVE

COUNTY: FOND DU LAC

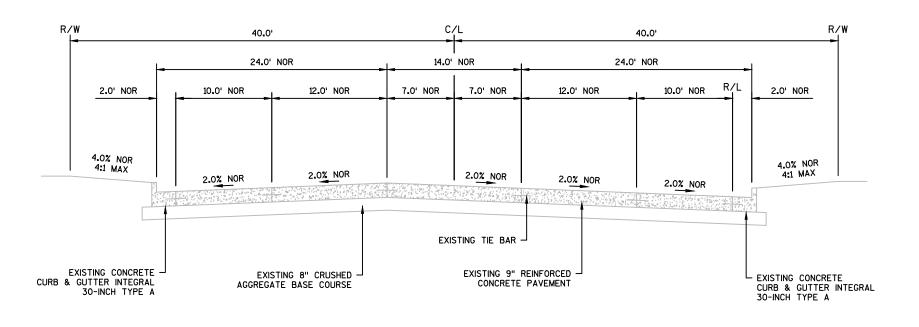
GENERAL NOTES

PLOT BY : AARON SARAUER

SHEET

E

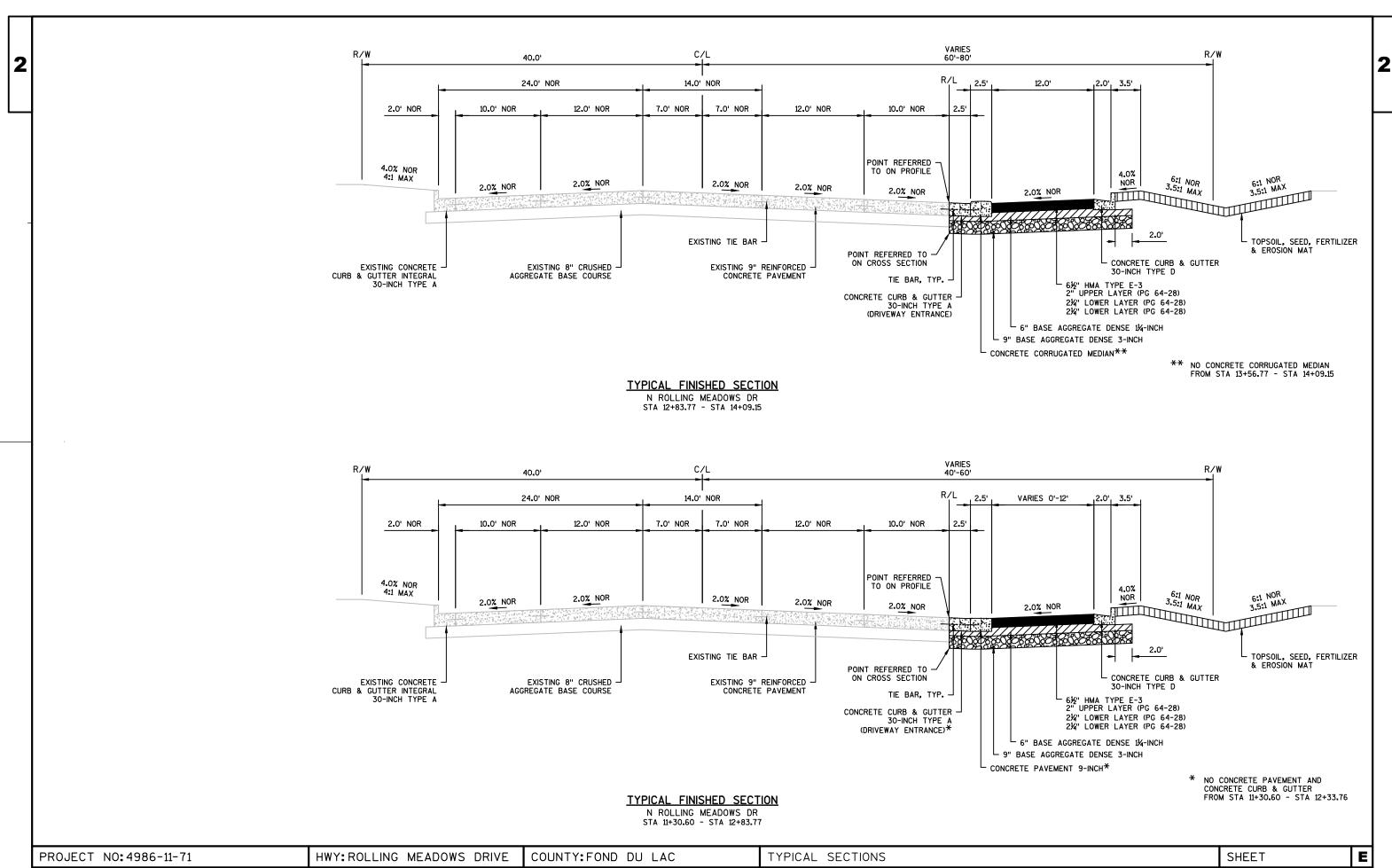
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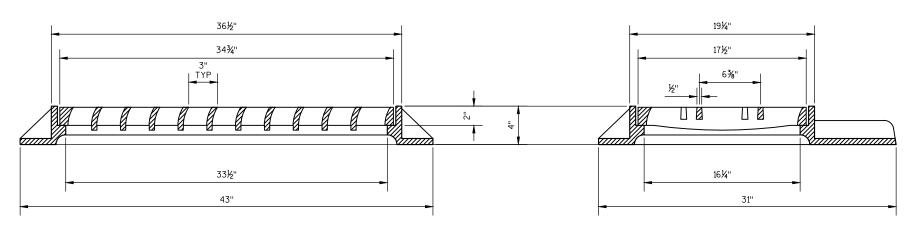


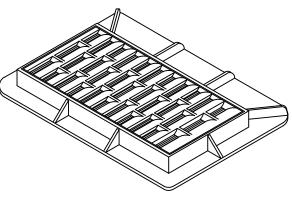
TYPICAL EXISTING SECTION

N ROLLING MEADOWS DR STA 11+30.60 - STA 14+09.15

PROJECT NO:4986-11-71 HWY:ROLLING MEADOWS DRIVE COUNTY:FOND DU LAC TYPICAL SECTIONS SHEET **E**

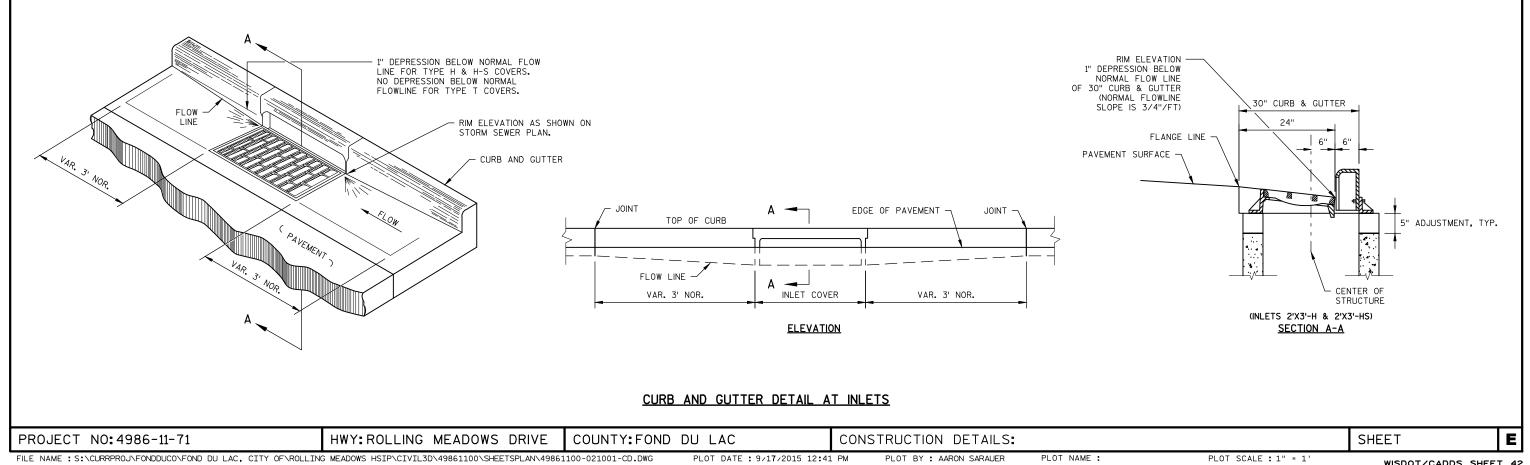


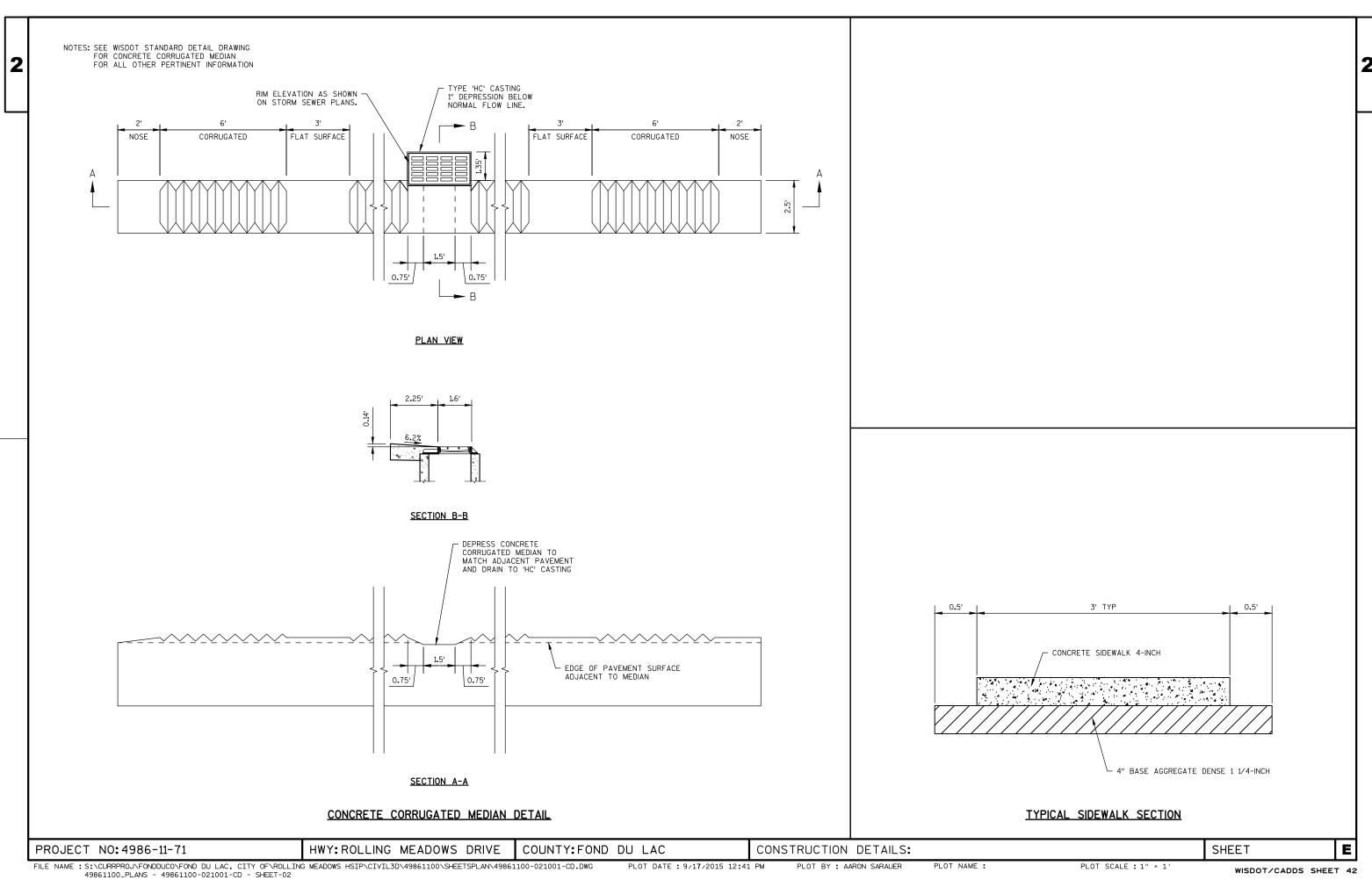


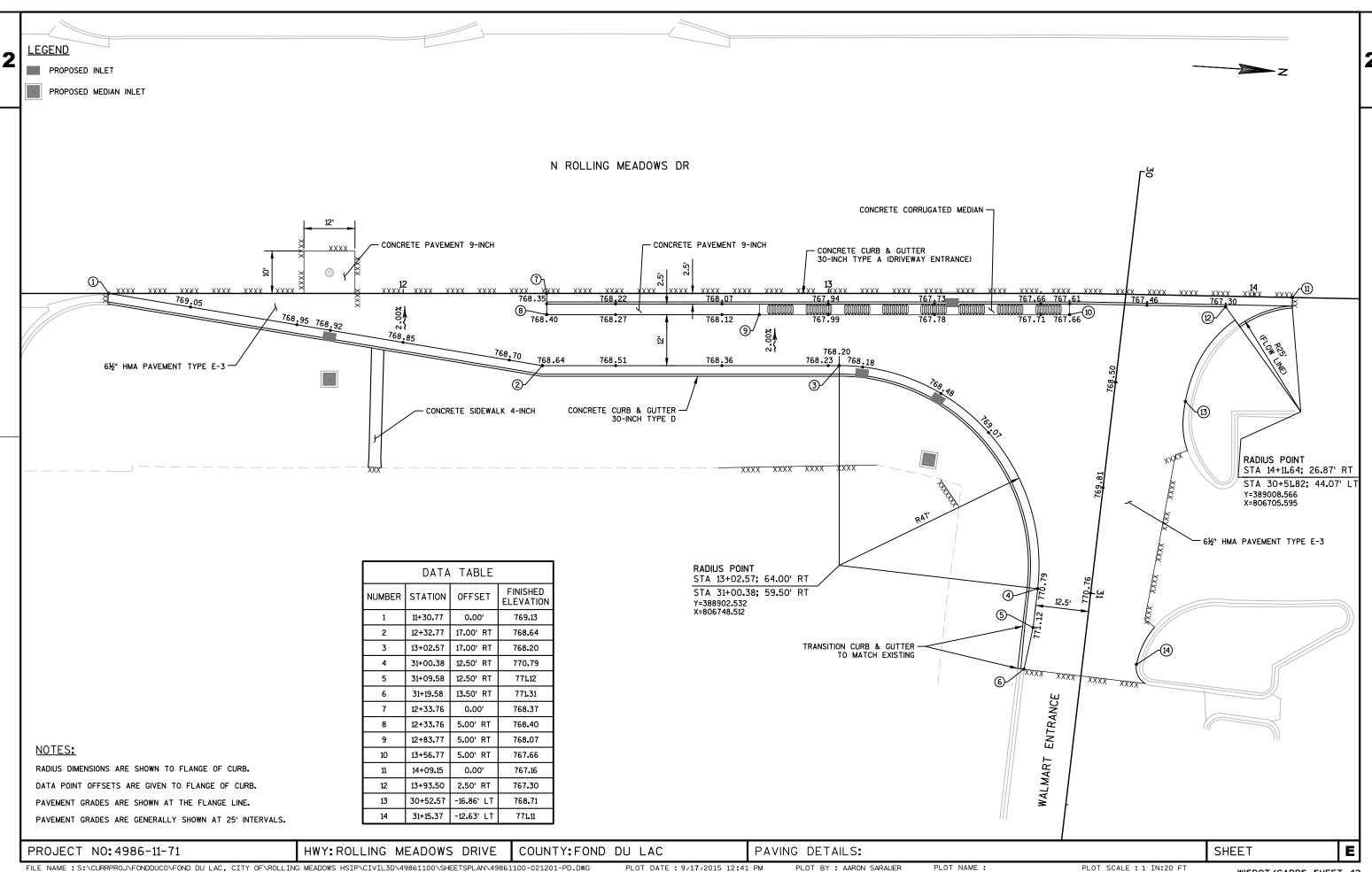


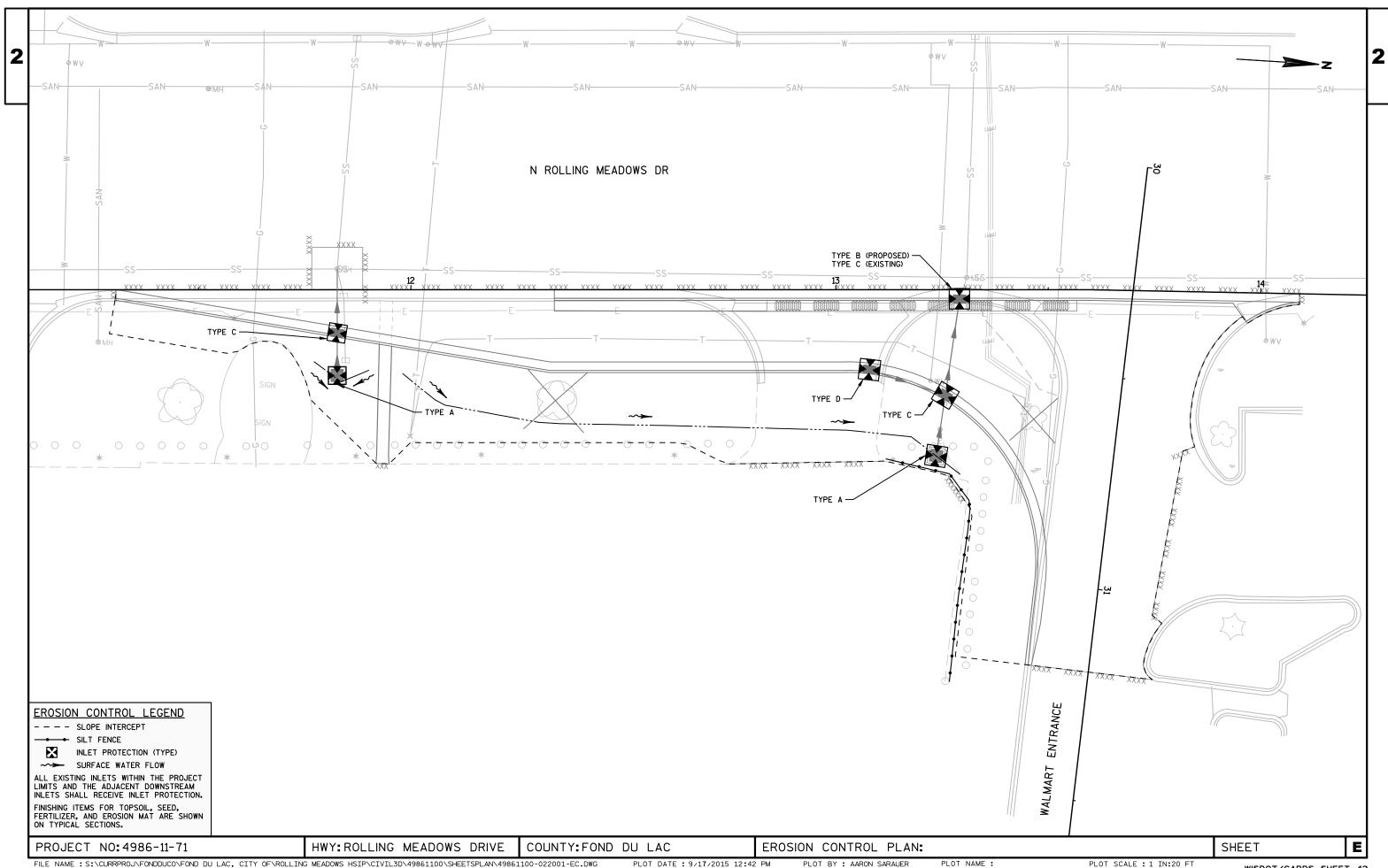
FRONT VIEW SIDE VIEW ISOMETRIC VIEW

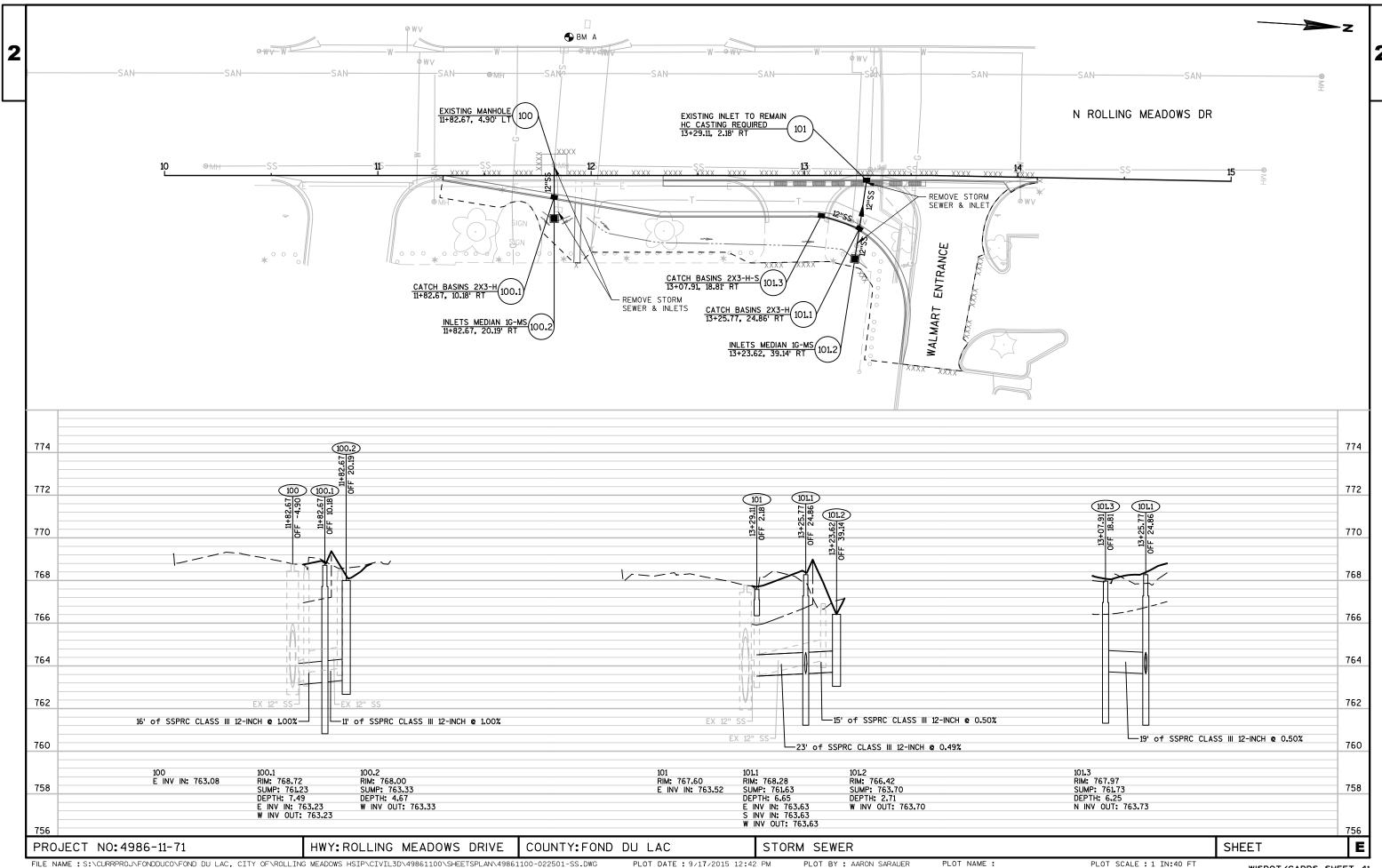
INLET COVER TYPE HC

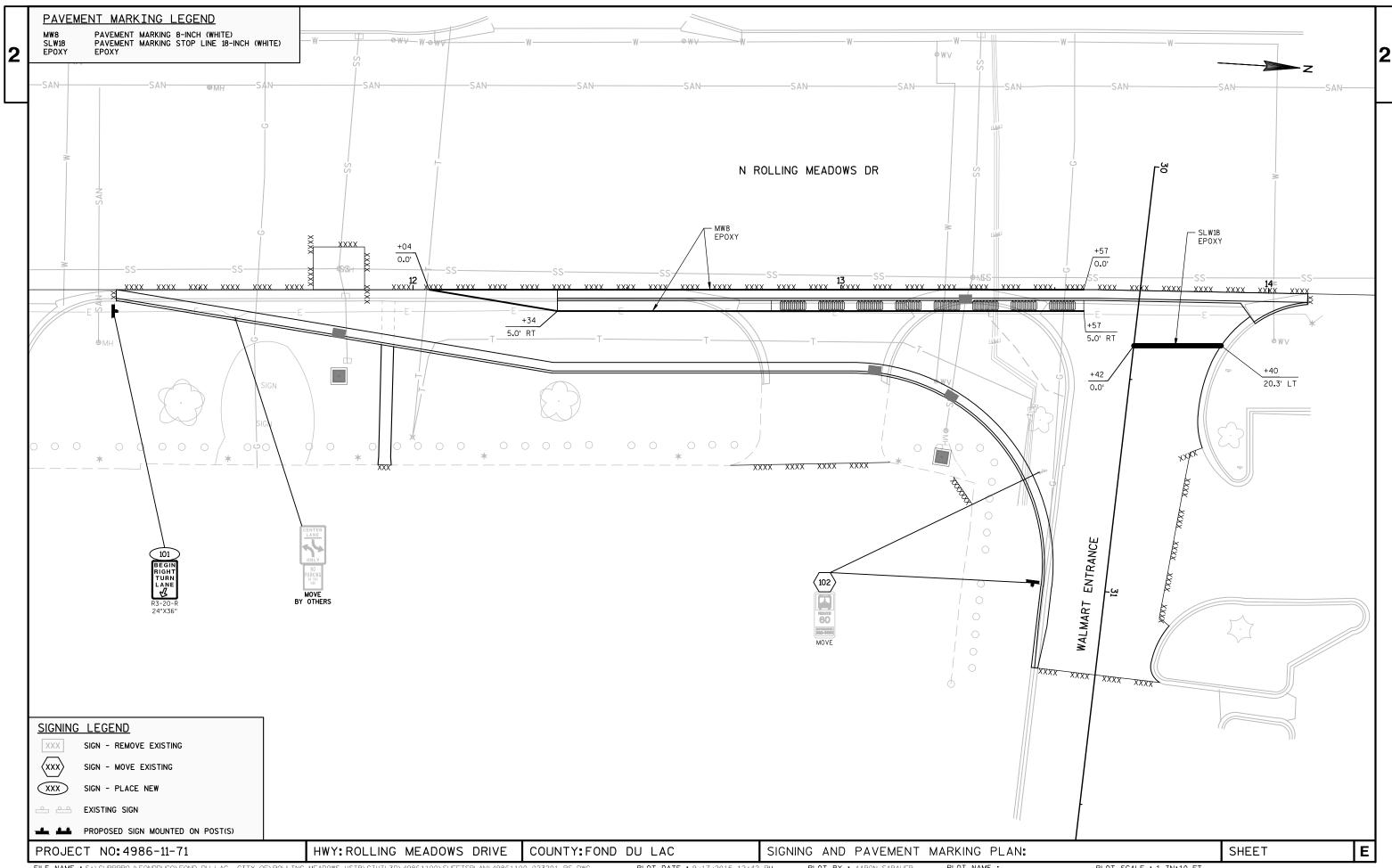














DATE 22	DEC15	E S T	·IMATE	OF QUAN	TITIES	
LINE					4986-11-71	
NUMBER		I TEM DESCRIPTION	UNIT	TOTAL	QUANTI TY	
0010 0020	201. 0220 204. 0100	Grubbi ng Removi ng Pavement	I D SY	25. 000 120. 000	25. 000 120. 000	
0030	204. 0150	Removing Curb & Gutter	LF	120. 000	120. 000	
0040	204. 0155	Removing Concrete Sidewalk	SY	15. 000	15. 000	
0050	204. 0195	Removing Concrete Bases	EACH	1. 000	1. 000	
0060	204. 0220	Removing Inlets	EACH	3. 000	3. 000	
0070	204. 0245	Removing Storm Sewer (size) 01. 12-Inch	LF	55. 000	55. 000	
0800	204. 9060. 3	Removing (item description) 01. Steel Posts and Concrete Bases	EACH	7. 000	7. 000	
0090	205. 0100	Excavation Common	CY	607.000	607. 000	
0100	213. 0100	Finishing Roadway (project) 01. 4986-11-71	EACH	1. 000	1. 000	
0110	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	300.000	300.000	
0120	305. 0130	Base Aggregate Dense 3-Inch	TON	490.000	490. 000	
0130	415. 0090	Concrete Pavement 9-Inch	SY	27.000	27. 000	
0140 0150	416. 0610 416. 0620	Drilled Tie Bars Drilled Dowel Bars	EACH EACH	104. 000 12. 000	104. 000 12. 000	
	410.0020	Diffred bower bars	LACII	12.000		
0160	455. 0120	Asphaltic Material PG64-28	TON	13.000	13.000	
0170 0180	455. 0605 460. 1103	Tack Coat HMA Pavement Type E-3	GAL TON	90. 000 235. 000	90. 000 235. 000	
0180	460. 1103	Incentive Density HMA Pavement	DOL	160. 000	160. 000	
0200	601. 0409	Concrete Curb & Gutter 30-Inch Type A	LF	190. 000	190. 000	
0210	601. 0411	Concrete Curb & Gutter 30-Inch Type D	LF	270. 000	270. 000	
0220	602.0405	Concrete Sidewalk 4-Inch	SF	80.000	80.000	
0230	608. 0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	84. 000	84. 000	
0240	611. 0624	Inlet Covers Type H	EACH	2. 000	2. 000	
0250	611. 0639	Inlet Covers Type H-S	EACH	1. 000	1. 000	
0260	611. 0642	Inlet Covers Type MS	EACH	2. 000	2. 000	
0270	611. 1230	Catch Basins 2x3-FT	EACH	3.000	3. 000	
0280	611. 3901	Inlets Median 1 Grate	EACH	2.000	2.000	
0290	619. 1000	Mobilization	EACH	1.000	1.000	
0300	620. 0100	Concrete Corrugated Median	SF	185. 000	185. 000	
0310	625. 0100	Topsoi I	SY	510.000	510. 000	
0320	628. 1504 628. 1520	Silt Fence Silt Fence Maintenance	LF LF	75. 000 75. 000	75. 000 75. 000	
0330 0340	628. 1520 628. 1905	Mobilizations Erosion Control	EACH	3. 000	3. 000	
0350	628. 1910	Mobilizations Emergency Erosion Control	EACH	1. 000	1. 000	
0360	628. 2006	Erosion Mat Urban Class I Type A	SY	510. 000	510. 000	
0370	628. 7005	Inlet Protection Type A	EACH	2. 000	2. 000	
0380	628. 7010	Inlet Protection Type B	EACH	1. 000	1.000	
0390	628. 7015	Inlet Protection Type C	EACH	4.000	4. 000	
0400	628. 7020	Inlet Protection Type D	EACH	1. 000	1. 000	
0410	629. 0210	Fertilizer Type B	CWT	0. 300	0. 300	
0420	630. 0140	Seeding Mixture No. 40	LB	9. 000	9. 000	
0430	634. 0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000	
0440 0450	637. 2210 638. 2102	Signs Type II Reflective H Moving Signs Type II	SF EACH	6. 000 1. 000	6. 000 1. 000	
0460	638. 4000	Moving Small Sign Supports	EACH	1.000	1.000	
0470 0480	642. 5001 643. 0100	Field Office Type B Traffic Control (project) 01. 4986-11-71	EACH EACH	1. 000 1. 000	1. 000 1. 000	
0480	643. 0300	Traffic Control Drums	DAY	957. 000	957. 000	
0500	643. 0420	Traffic Control Barricades Type III	DAY	363. 000	363. 000	
0510	643. 0705	Traffic Control Warning Lights Type A	DAY	528. 000	528. 000	
0010	043. 0703	Training Lights Type A	ואט	320.000	320.000	

DATE 22 LINE	DEC15	EST	IMATE	OF QUAN	T I T I E S 4986-11-71	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0520	643. 0715	Traffic Control Warning Lights Type C	DAY	132. 000	132. 000	
0530	643. 0900	Traffic Control Signs	DAY	264.000	264.000	
0540	646. 0126	Pavement Marking Epoxy 8-Inch	LF	310.000	310.000	
0550	647. 0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	21. 000	21. 000	
0560	650. 4000	Construction Staking Storm Sewer	EACH	5. 000	5. 000	
0570	650. 4500	Construction Staking Subgrade	LF	369.000	369. 000	
0580	650. 5000	Construction Staking Base	LF	369.000	369. 000	
0590	650. 5500	Construction Staking Curb Gutter and Curb & Gutter	LF	270. 000	270. 000	
0600	650. 9910	Construction Staking Supplemental Control (project) 01. 4986-11-71	LS	1. 000	1. 000	
0610	650. 9920	Construction Staking Slope Stakes	LF	369. 000	369. 000	
0620	690. 0150	Sawing Asphalt	LF	120.000	120.000	
0630	690. 0250	Sawi ng Concrete	LF	315.000	315. 000	
0640	715. 0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000	
0650	ASP. 1TOA	On-the-Job Training Apprentice at \$5. OO/HR	HRS	150. 000	150. 000	
0660	ASP. 1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0670	SPV. 0060	Special 01. Inlet Covers Type HC	EACH	1. 000	1. 000	

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			STATION	LOCATI
			CATEGORY CO	
			0.11240111 00	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
			12+34	26' R
I			13+47	30' R
I				
	ર			то
	5		REMOVI	NG CONC
I				,
		STATION - STA	ATION IO	ATLON
		CATEGORY CODE (DATION
3				
	11+92 - 11-	+96	RT	
			TOTAL	
	PEMOVI N	IG STEEL	POSTS A	
	ICLINIO VIII	IG DILLE	I UDID F	
	CTATIO	N CTATION	1.0	
	CATEGORY COI	N - STATION OF 0010	LU	
		13+1	8 - 13+36	
		-		

REMOVING PAVEMENT

201. 0220 I D	STATION - STATION	LOCATI ON	204. 0100 SY
	CATEGORY CODE 0010		
15 10	11+31 - 14+09	RT	120

TOTAL 120

REMOVING CURB & GUTTER

204.0150 CURB & GUTTER

STA	TION - ST	ATI ON	LOCATI ON	LF	COMMENTS
CATEG	ORY CODE	0010			
·					
1	2+75 - 12	+82	RT	18	HOLIDAY GM DRIVEWAY
1	3+11 - 13	+18	RT	17	HOLIDAY GM DRIVEWAY
3	1+20 - 30	+39	LT	85	WALMART ENTRANCE

TOTAL 120

REMOVING CONCRETE SIDEWALK

TOTAL

GRUBBI NG

LOCATI ON

26' RT

30' RT

204.0155

15

		~ 0 1. 0 1 0 0	•
STATION - STATION	LOCATI ON	SY	COMMENTS
CATEGORY CODE 0010			
11+92 - 11+96	RT	15	SI DEWALK TO HOLIDAY GM

25

REMOVING CONCRETE BASES

204.0195

STATI ON	LOCATI ON	EACH	COMMENTS
CATEGORY	CODE 0010		
11+58	RT	1	REMOVE LIGHT POLE BASE

TOTAL

REMOVING STORM SEWER ITEMS

		EXI STI NG PI PE	204. 0245. 01 12- I NCH
STATION - STATION	LOCATI ON	MATERI AL	LF
CATEGORY CODE 0010			
11+83 - 11+84	LT & RT	RCP	8
11+84 - 11+85	RT	RCP	16
13+25 - 13+29	RT	RCP	31
		TOTAL	55

NG STEEL POSTS AND CONCRETE BASES

	TOTAL	7
13+18 - 13+36	RT	7
CATEGORY CODE 0010		
STATION - STATION	LOCATI ON	EACH
		204. 9060. S. 01

CATEGORY CODE 0010 2' RT 11 + 8411+85 17' RT 13+25 33' RT

REMOVING INLETS

STATION LOCATION

TOTAL

204. 0220

EACH

Di vi si on	From/To Station	Locati on	Common Excavation (1)	Salvaged/ Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5)	Mass Ordi nate +/- (6)	Waste	Comment:
			Cut (2)				Factor 1. 25			
1 Division 1 Subtotal	11+25/14+00	N Rolling Meadows Dr	607 607	135 135	472 472	17 17	21 21	451 451	451 451	
Grand Total			607	135	472	17	21	451	451	

- 1) Common Excavation is the sum of the Cut column. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut
- 3) Salvaged/Unusable Pavement Material = Length * Typical Width * Typical Depth
- 4) Available Material = Cut Salvaged/Unusuable Pavement Material
- 5) Expanded Fill Factor = 1.25. Expanded Fill = Unexpanded Fill * Fill Factor
- 6) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

PROJ	JECT NO: 4986-11-71	HWY: ROLLING MEADOWS DRIVE	COUNTY: FOND DU LAC	MISCELLANEOUS QUANTITIES	SHEET	E
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BASE AGGREGATE DENSE ITEMS

STATION - STATION	LOCATI ON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON
CATEGORY CODE 0010			
11+31 - 14+09	RT	300	490
	TOTALS	300	490

BASE AGGREGATE DENSE 1 1/4-INCH WEIGHT CALCULATIONS BASED ON 2.0 TONS/CY. BASE AGGREGATE DENSE 3-INCH WEIGHT CALCULATIONS BASED ON 2.2 TONS/CY.

CONCRETE PAVEMENT 9-INCH

		415.0090
STATION - STATION	LOCATI ON	SY
CATEGORY CODE 0010		
11+77 - 11+89	LT	13
12+34 - 12+84	RT	14
	TOTAL	27

DRILLED TIE BAR AND DRILLED DOWEL BAR ITEMS

STATION - STATION CATEGORY CODE 0010	LOCATI ON	416.0610 TIE BARS EACH	416.0620 DOWEL BARS EACH
11+31 - 14+09	LT & RT	104	12
	TOTALS	104	12

ASPHALTIC ITEMS

STATION - STATION	LOCATI ON	455.0120 ASPHALTIC MATERIAL PG64-28 TON	455.0605 TACK COAT	460. 1103 HMA PAVEMENT TYPE E-3
CATEGORY CODE 0010	LUCATION	IUN	GAL	TUN
11+31 - 14+09	RT	13	90	235
	TOTALS	13	90	235

HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN. TACK COAT CALCULATIONS BASED ON 0.070 GAL/SY. ASPHALTIC MATERIAL WEIGHT CALCULATIONS BASED ON 5.5% OF THE HMA PAVEMENT WEIGHT.

CONCRETE CURB AND GUTTER ITEMS

STATION - STATION	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D	650.5500 CONSTRUCTION STAKING CURB, GUTTER AND CURB & GUTTER
CATEGORY CODE 0010				
11+31 - 13+45 12+34 - 14+09	RT RT	190	270 	270
	TOTALS	190	270	270

CONCRETE SIDEWALK 4-INCH

STATION - STATION CATEGORY CODE 0010	LOCATI ON	SF SF
11+92 - 11+95	RT	80
	TOTAL.	80

STORM SEWER ITEMS

CTURCURE			608.0312 SSPRC CLASS III	I NLET COVERS	611.0639 INLET COVERS	I NLET COVERS	CATCH BASINS	I NLETS MEDI AN	650. 4000 CONSTRUCTION STAKING	SPV. 0060. 01 I NLET COVERS
STURCURE			12-INCH	TYPE H	TYPE H-S		2X3- FT	1 GRATE	STORM SEWER	TYPE HC
NUMBER	STATI ON	LOCATI ON	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH
CATEGORY (CODE 0010									
100. 1	11+82.67	10. 18' RT	16	1			1		1	
100. 2	11+82.67	20. 19' RT	11			1		1	1	
101	13+29. 11	2. 18' RT								1
101. 1	13+25.77	24.86' RT	23	1			1		1	
101. 2	13+23.62	39. 14' RT	15			1		1	1	
101. 3	13+07. 91	18. 81' RT	19		1		1		1	
		TOTALS	84	2	1	2	3	2	5	1

Ε PROJECT NO: 4986-11-71 HWY: ROLLING MEADOWS DRIVE COUNTY: FOND DU LAC SHEET MISCELLANEOUS QUANTITIES

FILE NAME: 030201_mq.ppt PLOT BY : gaajs PLOT SCALE: 1:1 PLOT DATE : PLOT NAME :

CONCRETE CORRUGATED MEDIAN

STATION - STATION	LOCATI ON	620. 0100 SF
CATEGORY CODE 0010		
12+84 - 13+57	RT	185
	TOTAL	185

LANDSCAPING ITEMS

		625.0100 TOPSOIL	628.2006 EROSION MAT URBAN CLASS I TYPE A	629. 0210 FERTI LI ZER TYPE B	630.0140 SEED MIX NO. 40
STATION - STATION	LOCATI ON	SY	SY	СШТ	LB
CATEGORY CODE 0010					
11+31 - 14+09 UNDI STRI BUTED	RT	462 48	462 48	0. 3	8 1
	TOTALS	510	510	0. 3	9

SILT FENCE ITEMS

STATION - STATION	LOCATI ON	628. 1504 SILT FENCE LF	628. 1520 SILT FENCE MAINTENANCE LF
CATEGORY CODE 0010			
30+76 - 31+26	RT	66	66
UNDI STRI BUTED		9	9
	TOTALS	75	75

INLET PROTECTION ITEMS

	628. 7005 TYPE A	628.7010 TYPE B	628. 7015 TYPE C	628. 7020 TYPE D
LOCATI ON	EACH	EACH	EACH	EACH
CATEGORY CODE 0010				
EXISTING STRUCTURES			2	
PROPOSED STRUCTURES	2	1	2	1
UNDI STRI BUTED				
TOTALS	2	1	4	1

PERMANENT SIGNING ITEMS

SI GN			OFFCET	SI GN	CL ZE	634. 0614 POSTS WOOD 4X6X14 EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	638. 2102 MOVING SIGNS TYPE II EACH	638. 4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
UMBER	STATI ON	LOCATI ON	OFFSET	CODE	SI ZE	EACH	Sr	EACH	EACH	COMMENTS
	STATION CODE 001		UFFSEI	СОВЕ	SIZE	EACH	Sr	EACH	ЕАСП	COMMENTS
				R3- 20R		1	6. 00	EACH	EACH	

TOTALS 1 6.00 1 1

TRAFFIC CONTROL ITEMS

	NUMBER OF DAYS	643. DRI	0300 J MS	BARRI	0420 CADES III	WARI LIG	0705 NING SHTS PE A	WARI LI G	0715 NING HTS E C		0900 GNS
	IN	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL
LOCATI ON	SERVI CE	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY
CATEGORY CODE 0010											
ROLLING MEADOWS DRIVE - NB RIGHT LANE	33	29	957	5	165	8	264	4	132	6	198
WALMART ENTRANCE - EAST OF CONSTRUCTION	33			3	99	4	132			1	33
WALMART ENTRANCE - NORTH OF CONSTRUCTION	33			3	99	4	132			1	33
	TOTALS	29	957	11	363	16	528	4	132	8	264

PAVEMENT MARKING ITEMS

		646. 0126 EPOXY 8-INCH	647.0566 STOP LINE EPOXY 18-INCH
		WHITE	WHITE
STATION - STATION	LOCATI ON	LF	LF
CATEGORY CODE 0010			
12+04 - 13+54	RT	310	
30+40 - 30+42	LT		21
	TOTALS	310	21

HWY: ROLLING MEADOWS DRIVE COUNTY: FOND DU LAC E PROJECT NO: 4986-11-71 MISCELLANEOUS QUANTITIES SHEET

FILE NAME: 030201_mq.ppt PLOT BY : gaajs PLOT NAME : PLOT SCALE : 1:1 PLOT DATE :

690. 0150 690. 0250

		690.0150 ASPHALT	690. 0250 CONCRETE
STATION - STATION	LOCATI ON	LF	LF
CATEGORY CODE 0010			
11+31 - 14+09	LT & RT		308
11+92 - 11+95	RT		3
12+74 - 13+11	RT	38	
13+26 - 13+31	RT	8	
13+96 - 13+97	RT		2
30+53 - 31+15	LT	46	
31+20	LT & RT	28	2

TOTALS 120

315

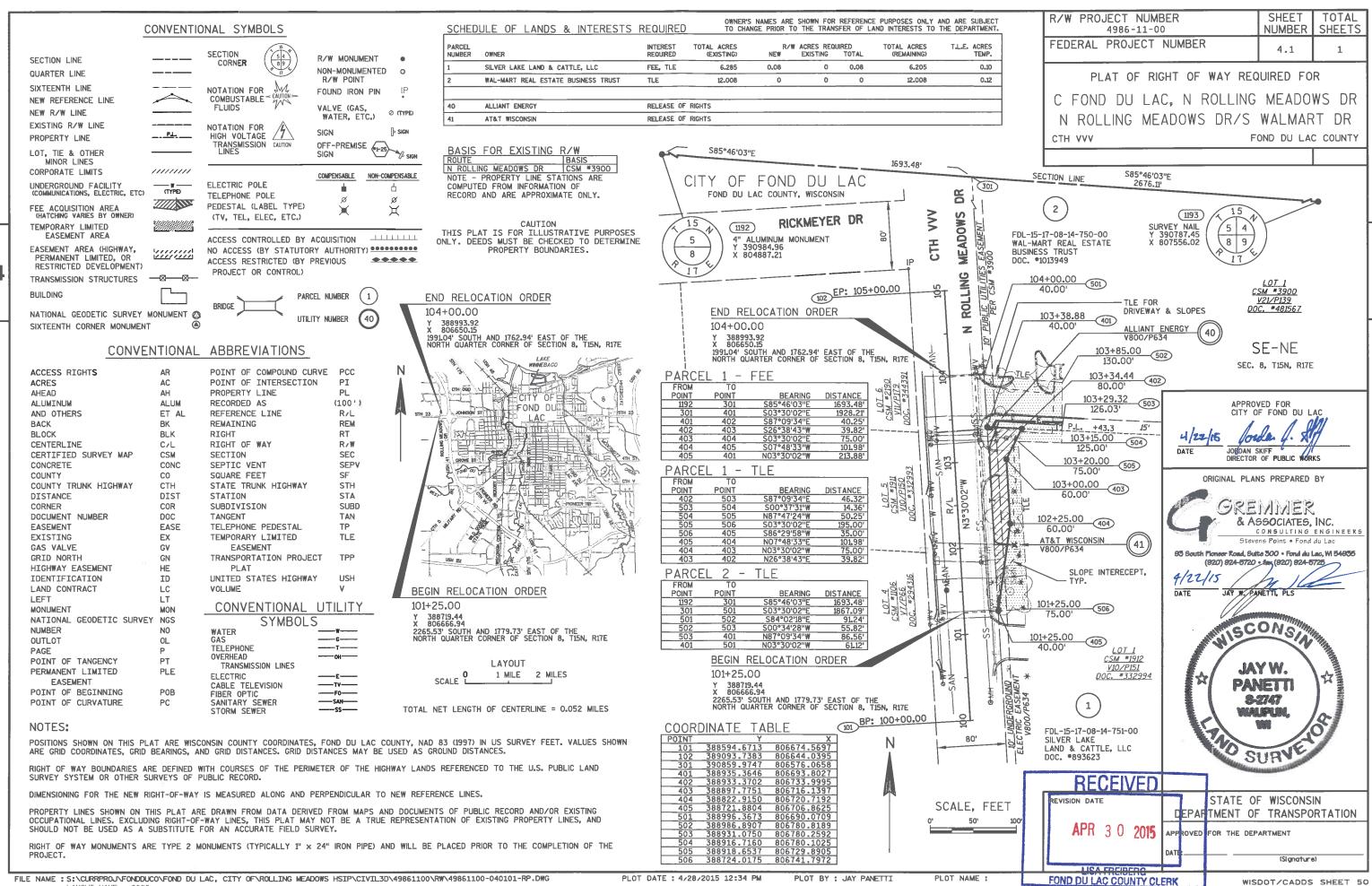
SAWING PAVEMENT ITEMS

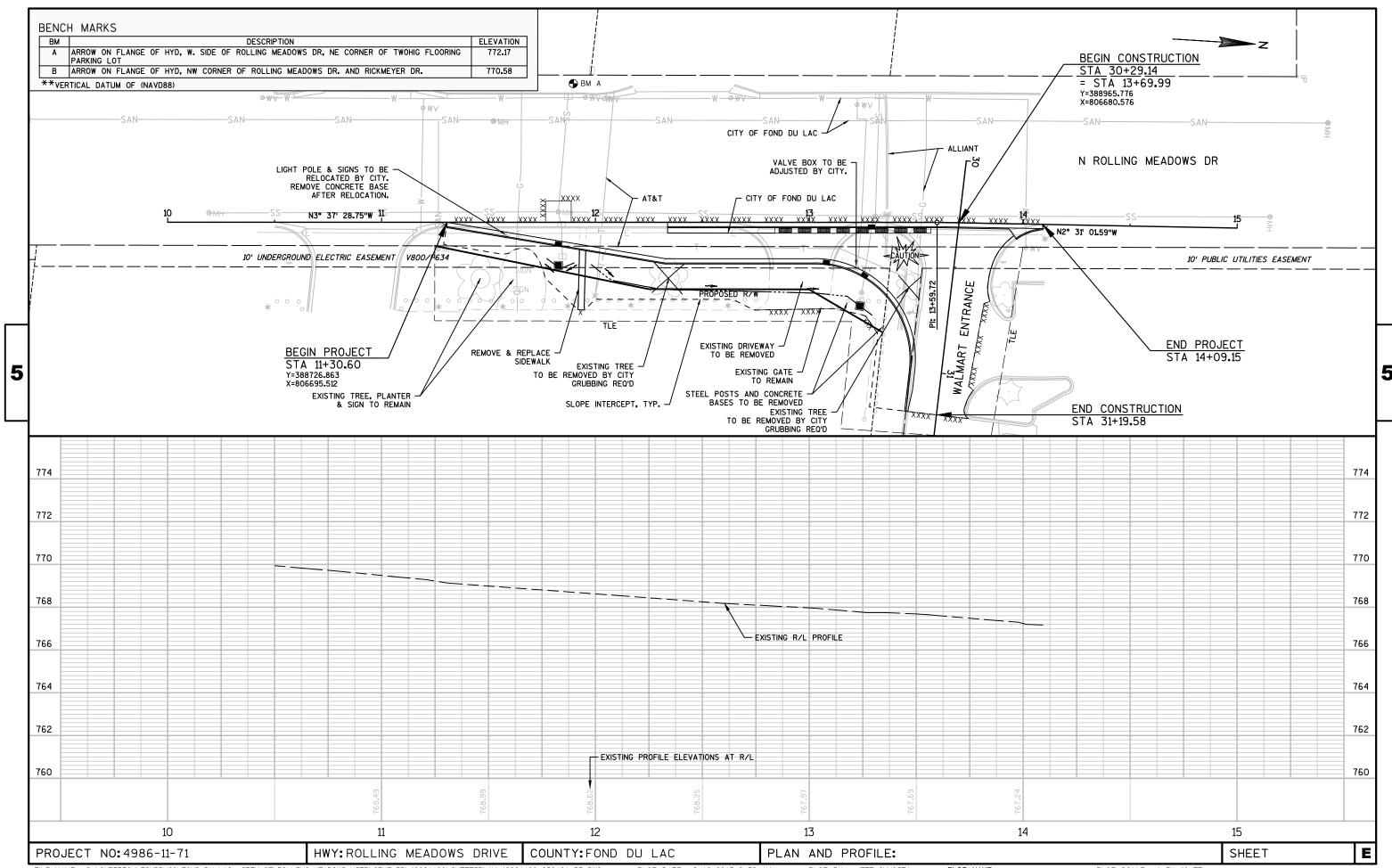
CONSTRUCTION STAKING ITEMS

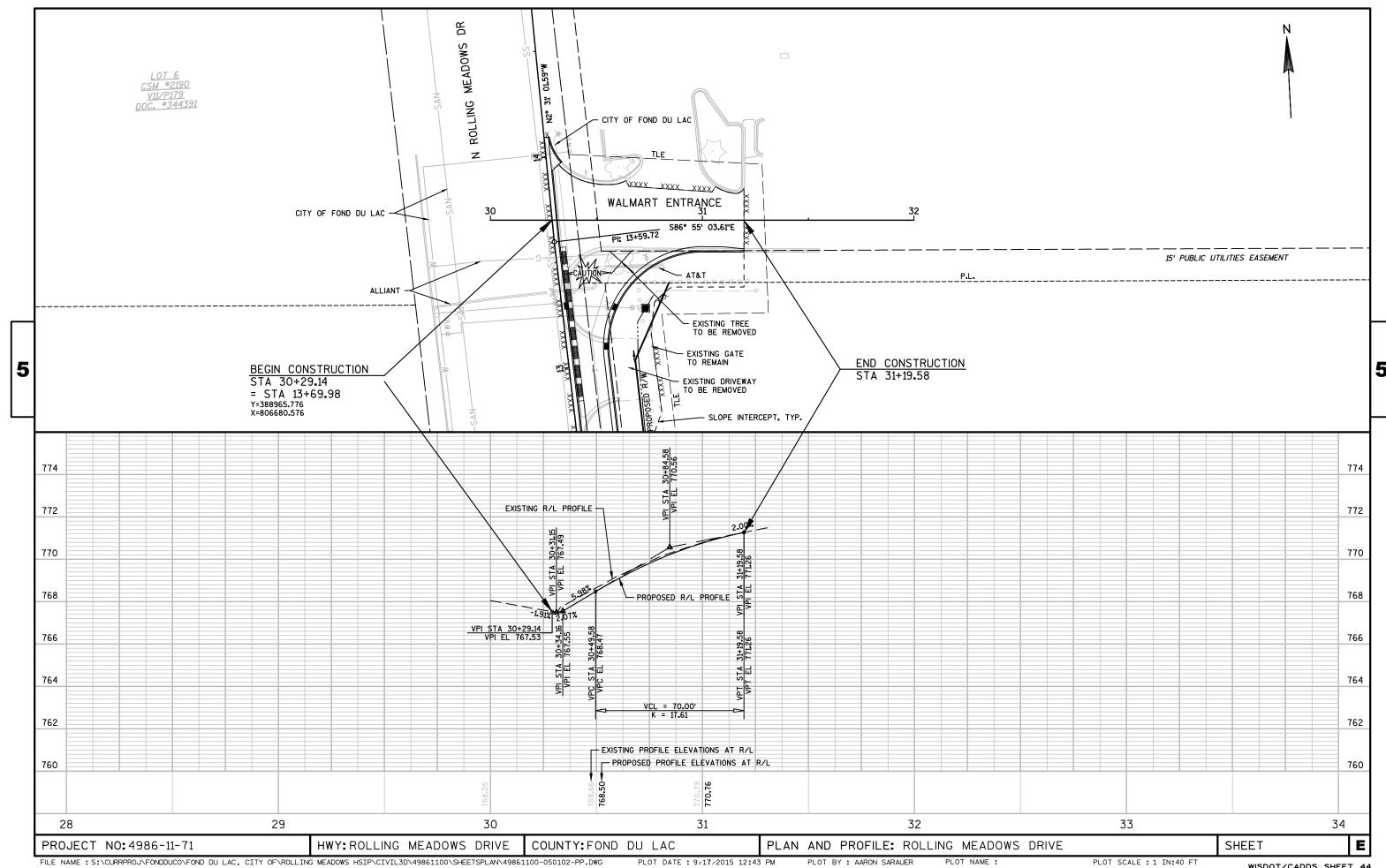
		650. 4500 SUBGRADE	650. 5000 BASE	650.9910 SUPPLEMENTAL CONTROL	650.9920 Slope Stakes
STATION - STATION	LOCATI ON	LF	LF	LS	LF
CATEGORY CODE 0010					
11+31 - 14+09	RT	279	279	1	279
30-29 - 31+20	LT & RT	90	90		90
	TOTALS	369	369	1	369

STAKING ITEMS FOR CURB & GUTTER AND STORM SEWER SHOWN ELSEWHERE

PROJECT NO: 4986-11-71 HWY: ROLLING MEADOWS DRIVE COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET **E**

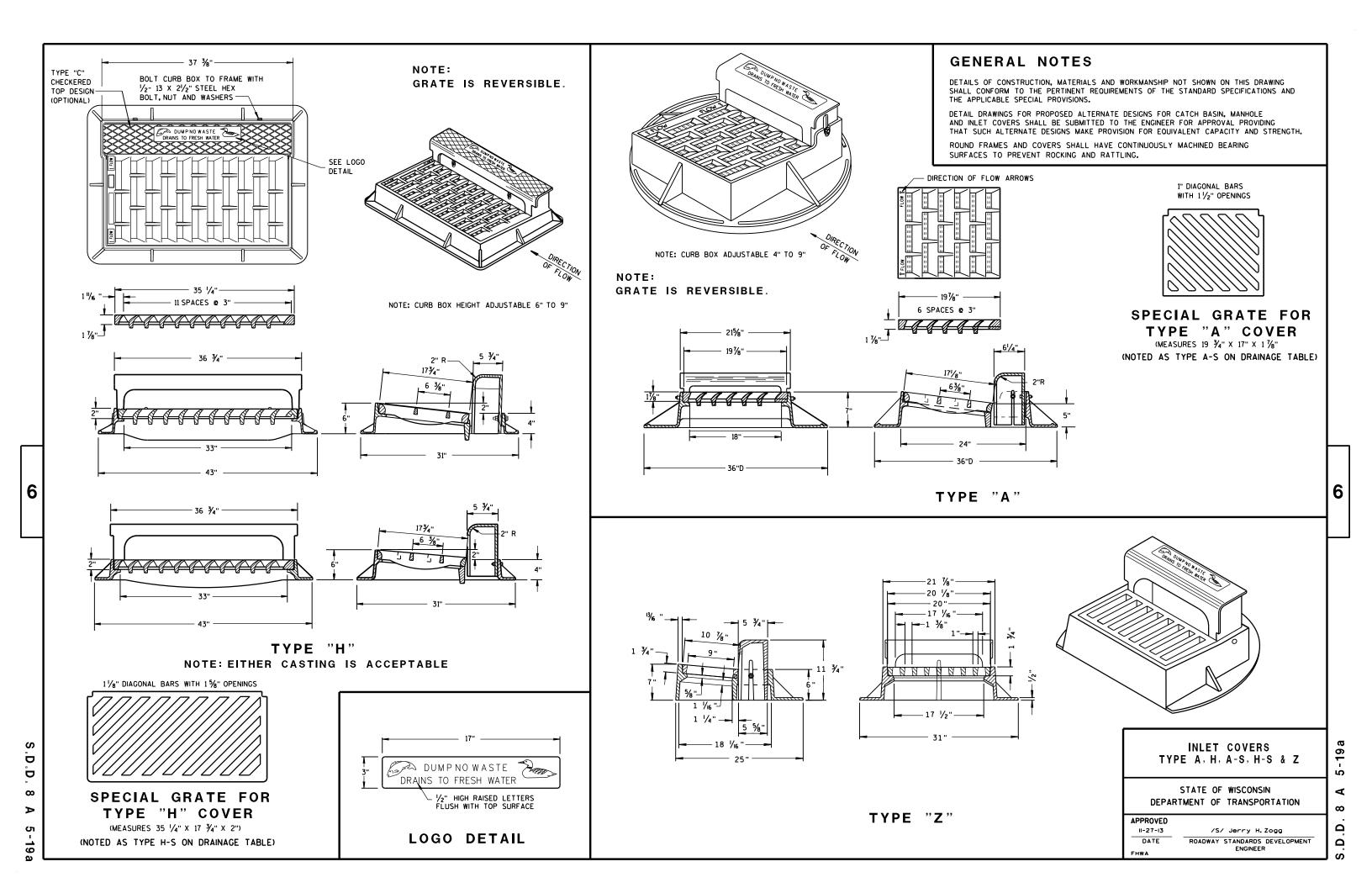


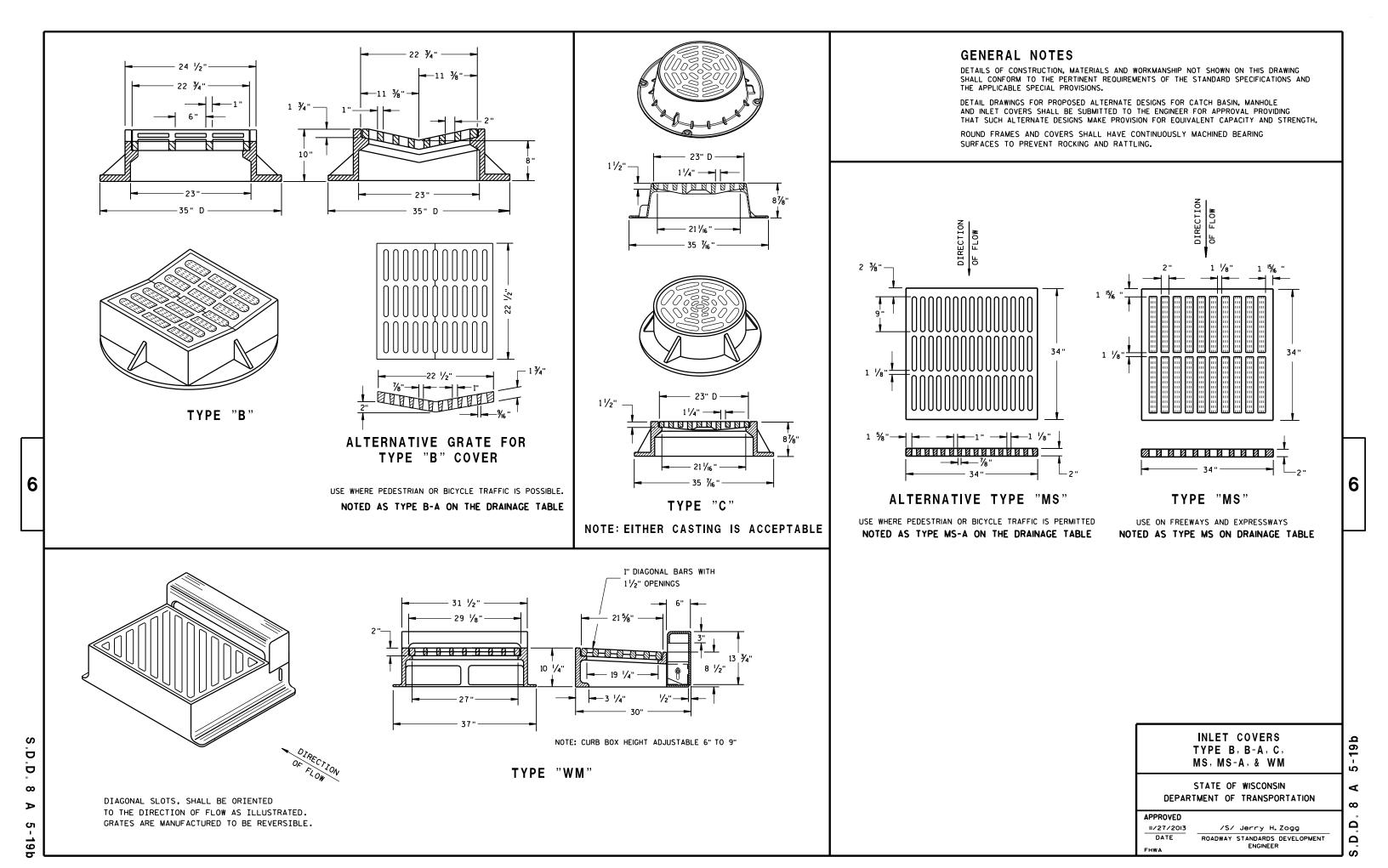


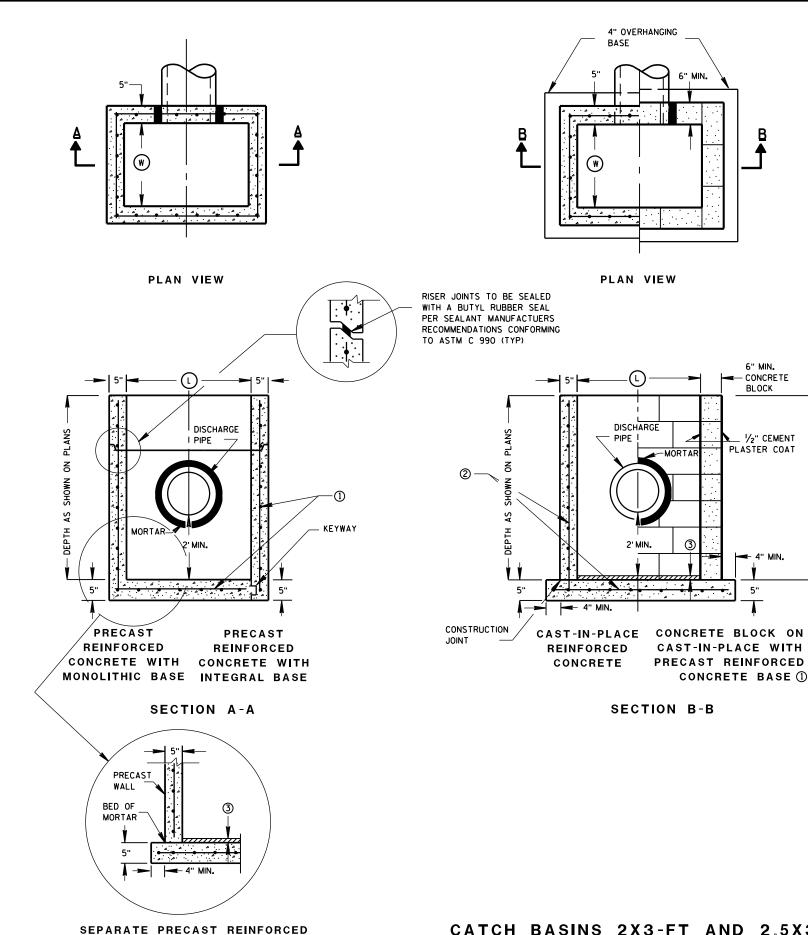


Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A09-01	CATCH BASINS 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
11B01-05	CONCRETE CORRUGATED MEDIAN
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-12A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-12B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-12C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D2O-03	TRAFFIC CONTROL SINGLE LANE CLOSURE NON-ERFEWAY/EXPRESSWAY







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 CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 PRECAST CATCH BASIN 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.

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.

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

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" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

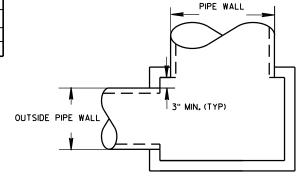
- (1) FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.
- (3) 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER	F	ALL H'S
	WIDTH (V) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		Х
2.5X3-FT	2.5	3	Х	

PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		
CATCH BASIN SIZE	WIDTH (IN)	LENGTH (IN)	
2X3-FT	12	24	
2.5X3-FT	18	24	



DETAIL "A"

OUTSIDE

CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ⋖

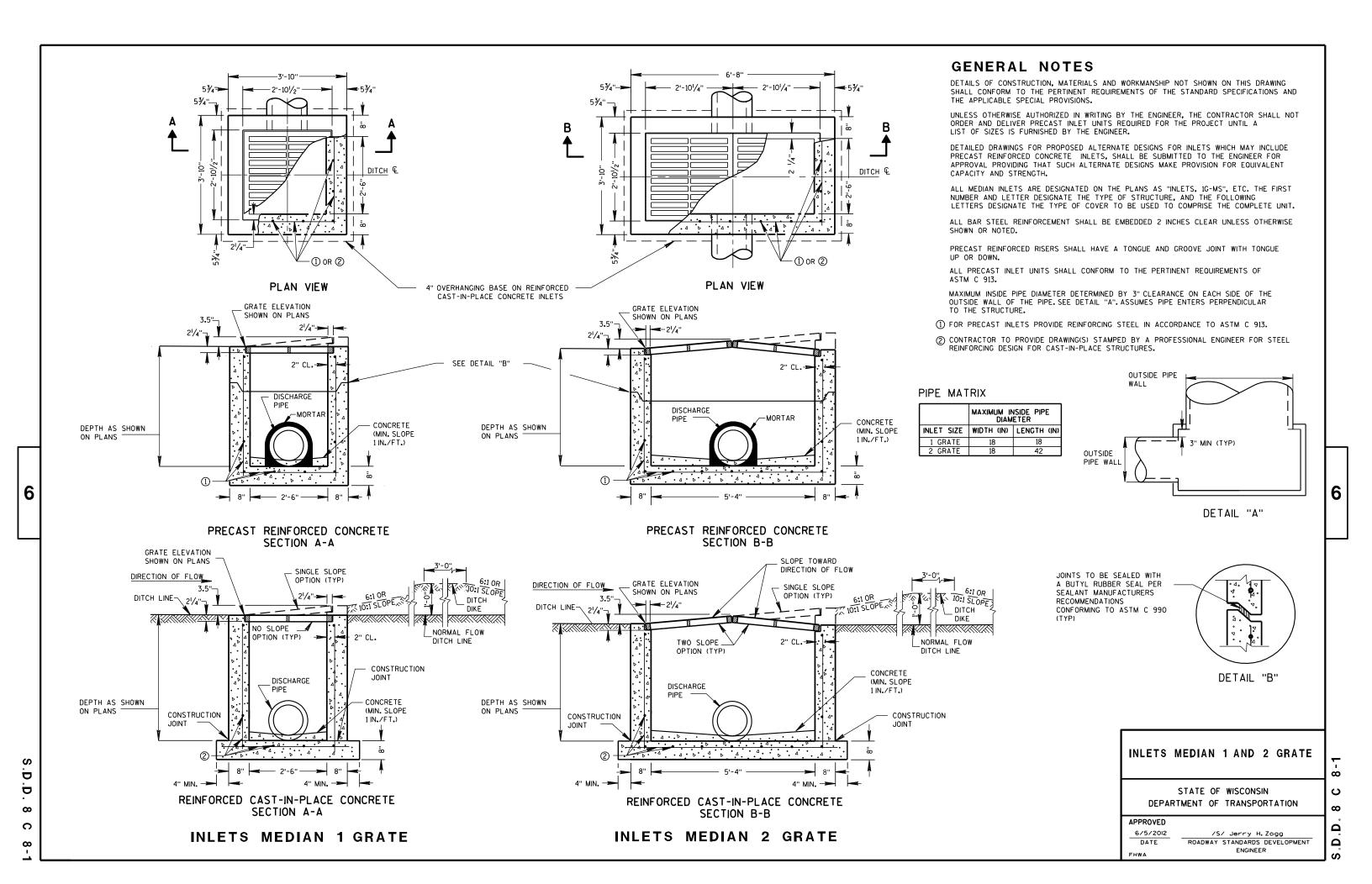
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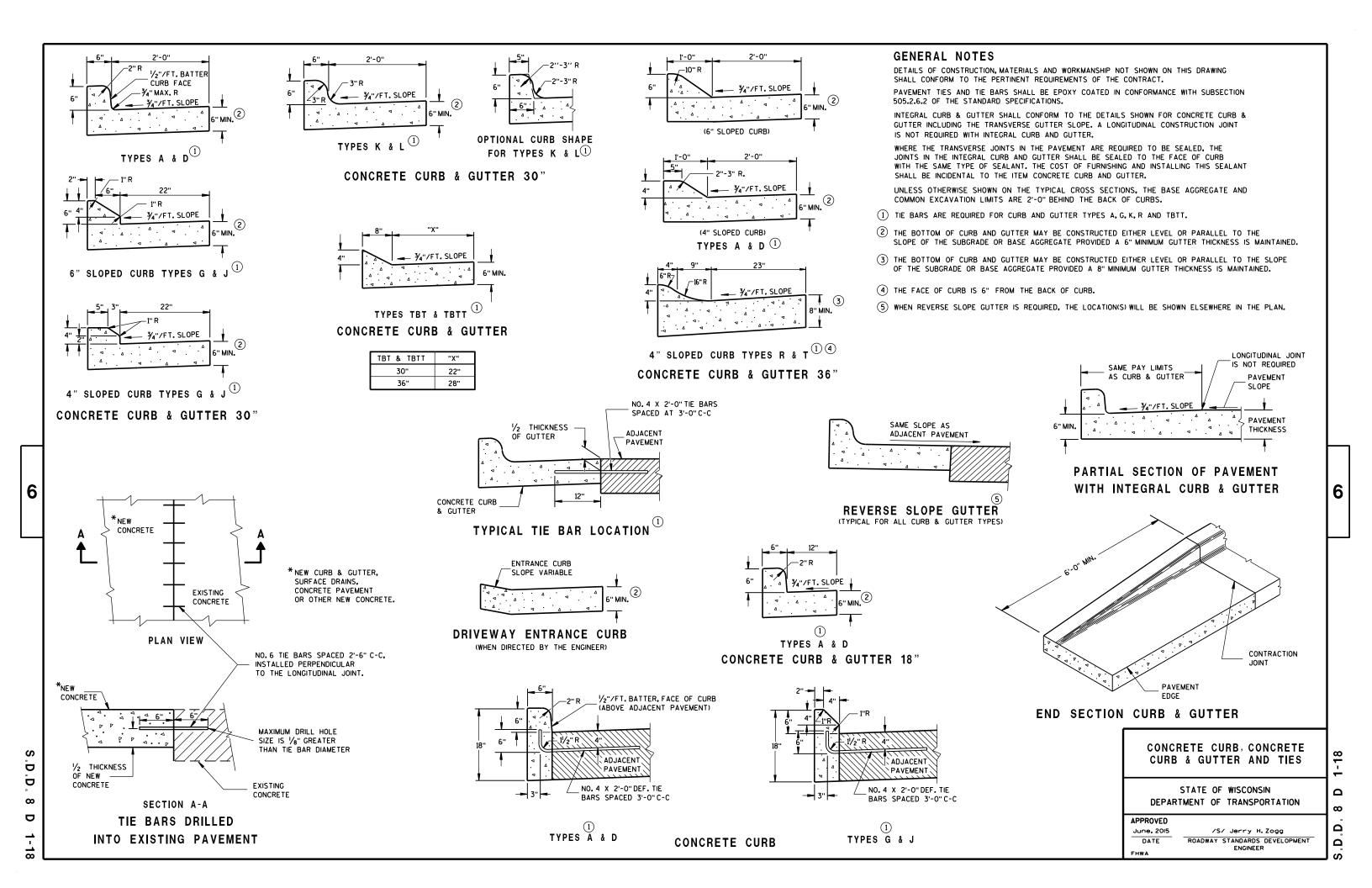
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APPROVED 6/5/2012 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT DATE ENGINEER FHWA

CATCH BASINS 2X3-FT AND 2.5X3-FT

CONCRETE BASE OPTION





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.

- \bigcirc 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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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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

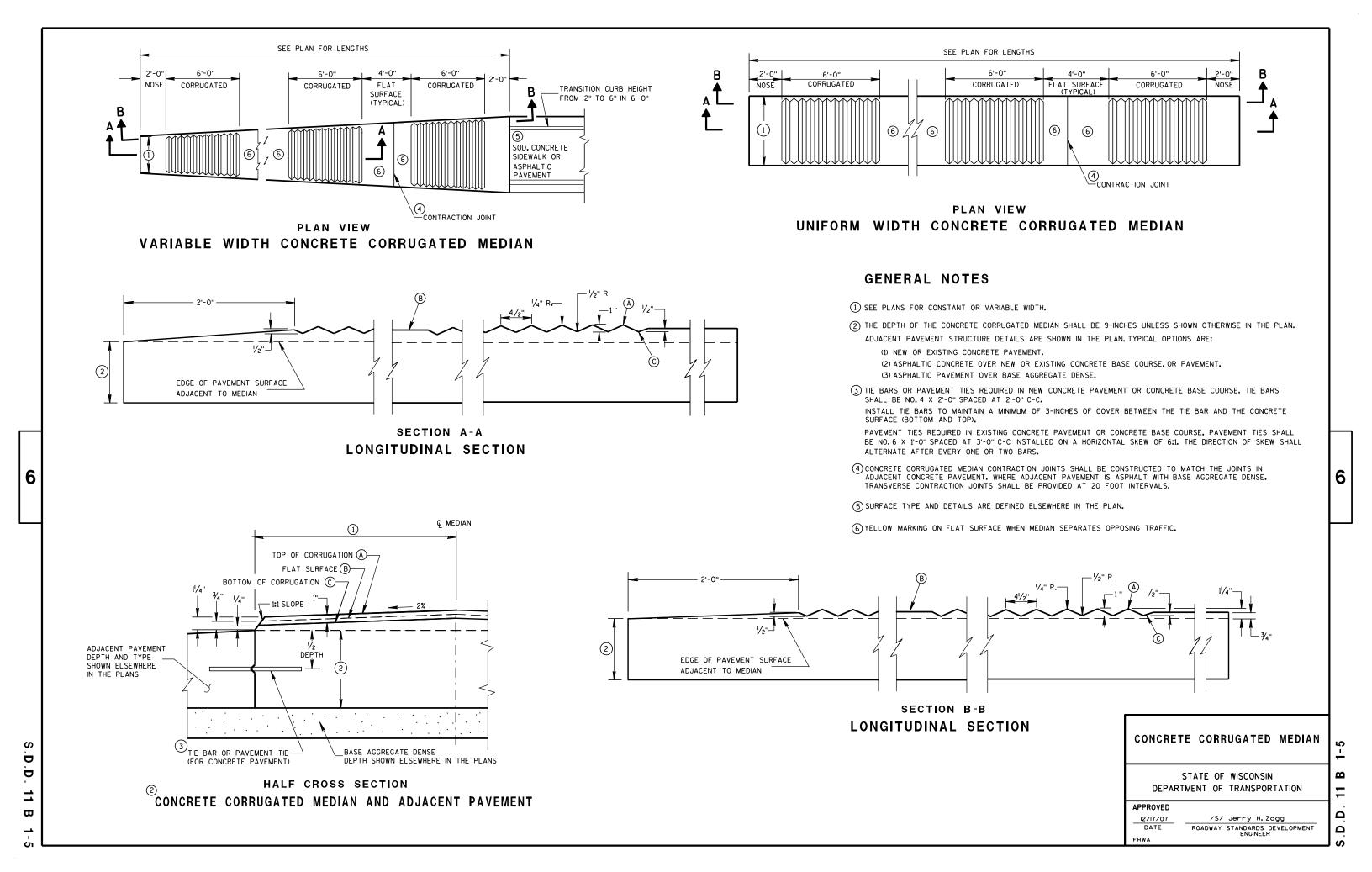
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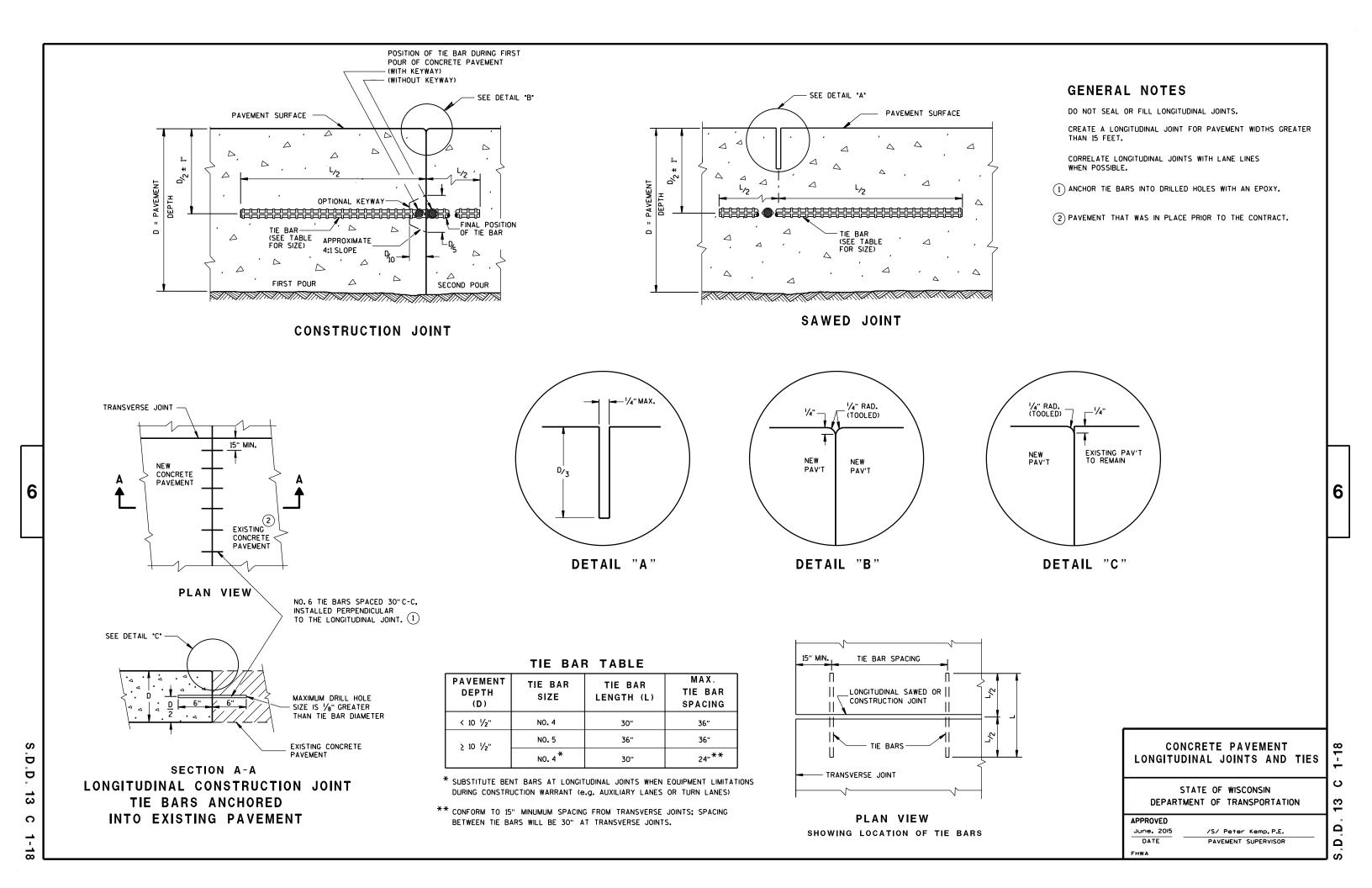
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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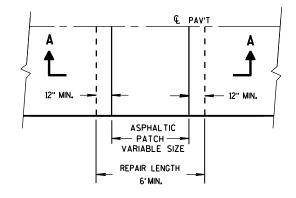




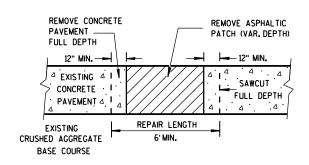
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1) DOWEL BARS MIGHT NOT EXIST.

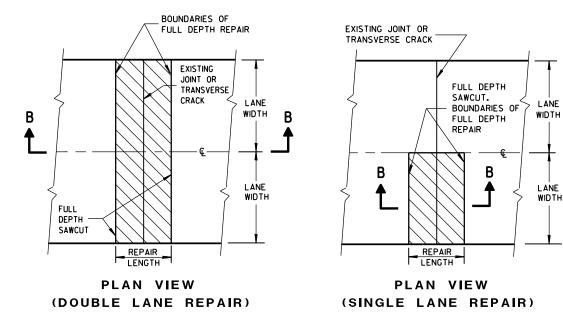


PLAN VIEW

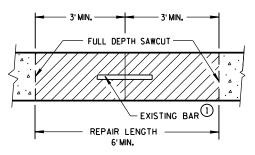


SECTION A-A

HMA PATCH REMOVAL



FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B-B
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR
AND REPLACEMENT

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

1/4" RAD. (TOOLED) EXISTING PAV'T PAV'T TO REMAIN C2 C1

TRANSVERSE JOINTS

EXISTING PAV'T

TO REMAIN

1/4" RAD. (TOOLED)

L2

LONGITUDINAL JOINTS

── '/4" MAX.

L1

TIE BAR TABLE

	IIL DAI	HE DAN TABLE					
PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR Length (L)	MAX. TIE BAR Spacing				
< 10 1/2"	NO. 4	30"	36"				
≥ 10 ½"	NO. 5	36"	36"				
2 10 /2	NO. 4 *	30"	24"**				

- * SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)
- ** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

1/4" RAD.

(TOOLED)

PAV'T

PAV'T

L3

SEE DETAIL L1 PAVEMENT SURFACE (SEE TABLE FOR SIZE)

SECTION C-C SAWED LONGITUDINAL JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

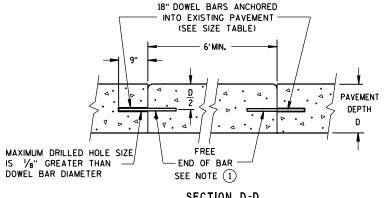
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

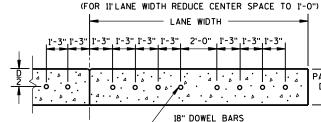
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION D-D



SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

(SEE SIZE TABLE)

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8",8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

PAVEMENT DEPTH

-12b

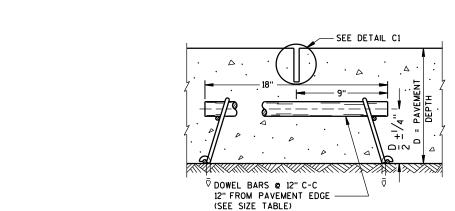
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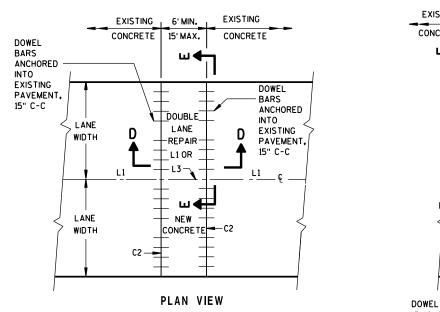
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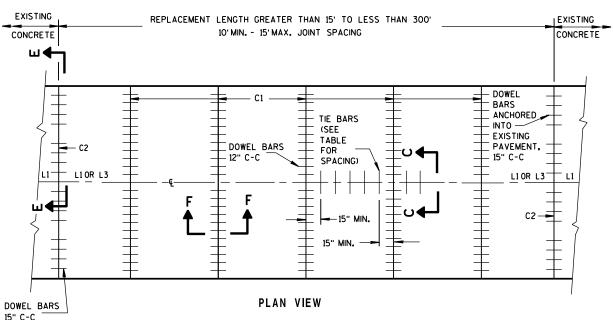
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



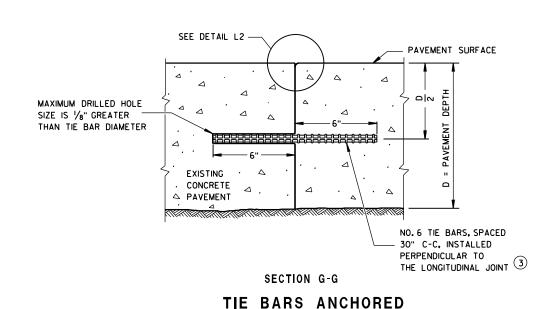
SECTION F-F **CONTRACTION JOINT**



MULTI-LANE CONCRETE PAVEMENT REPAIR



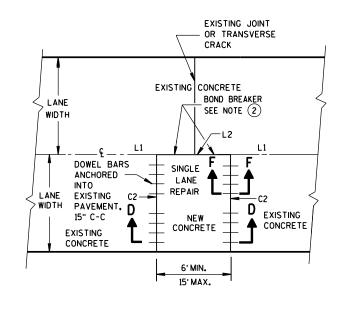
MULTI-LANE CONCRETE PAVEMENT REPLACEMENT



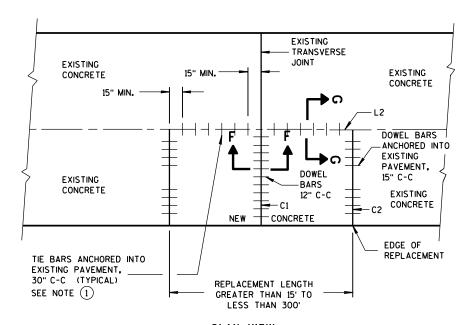
INTO EXISTING PAVEMENT

GENERAL NOTES

- 1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH. THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- 2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- 3 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW SINGLE LANE **CONCRETE PAVEMENT REPAIR**



PLAN VIEW SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

/S/ Peter Kemp.P.E. DATE PAVEMENT SUPERVISOR

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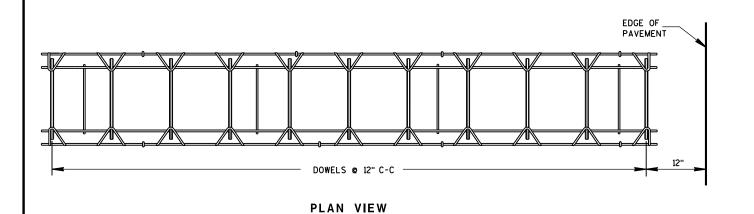
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PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8"•8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

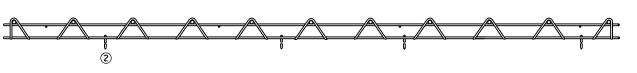
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE

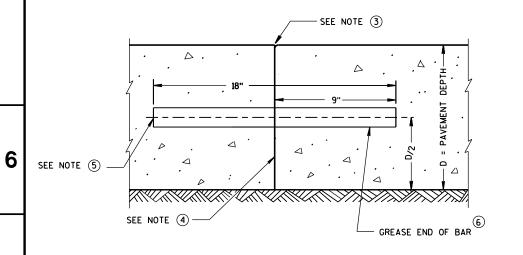
CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

- (1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.
- 2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- (3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.
- 4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- 5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO DRILLED DOWEL BAR CONSTRUCTION JOINT DETAIL.
- 6 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- (7) ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER. 9 INCHES IN LENGTH.



SIDE VIEW CONTRACTION JOINT DOWEL ASSEMBLY



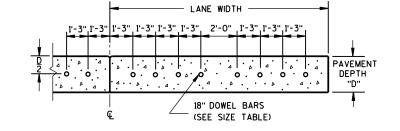
TRANSVERSE CONSTRUCTION JOINT

△ DOWEL BARS © 12" C-C 12" FROM PAVEMENT EDGE-

DOWELED CONTRACTION JOINT

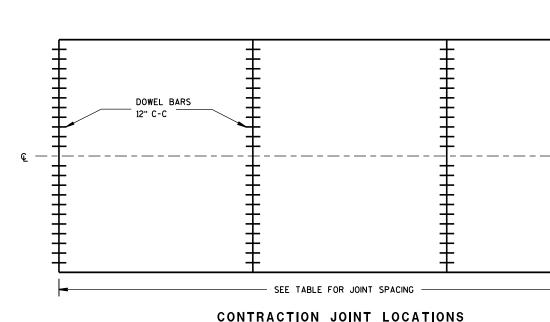
(SEE SIZE TABLE)

SEE JOINT DETAIL



(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")

DRILLED DOWEL BAR CONSTRUCTION JOINT $^{\scriptsize \bigcirc}$



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

- ¼" MAX.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 5/3/2013

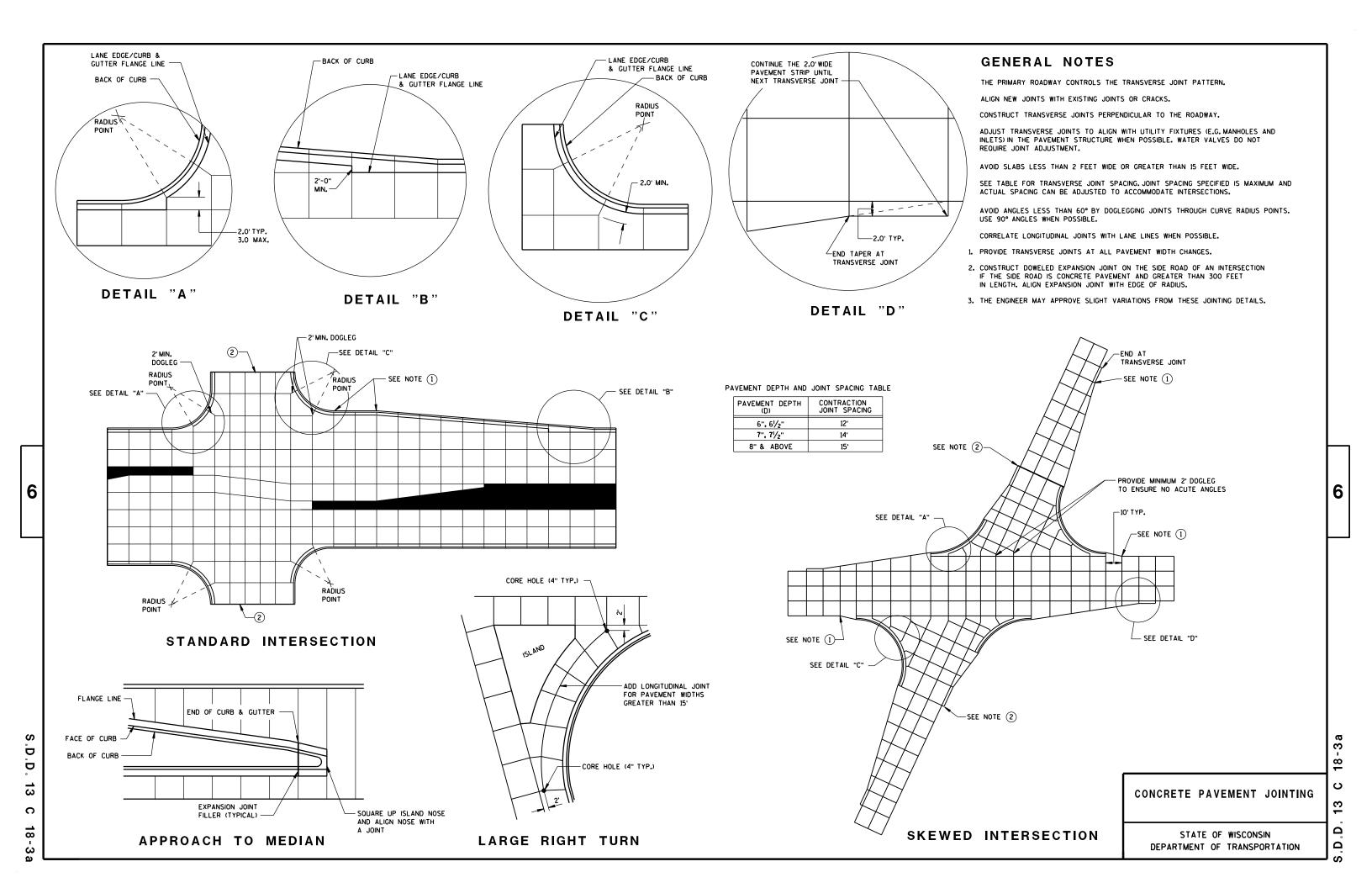
FHWA

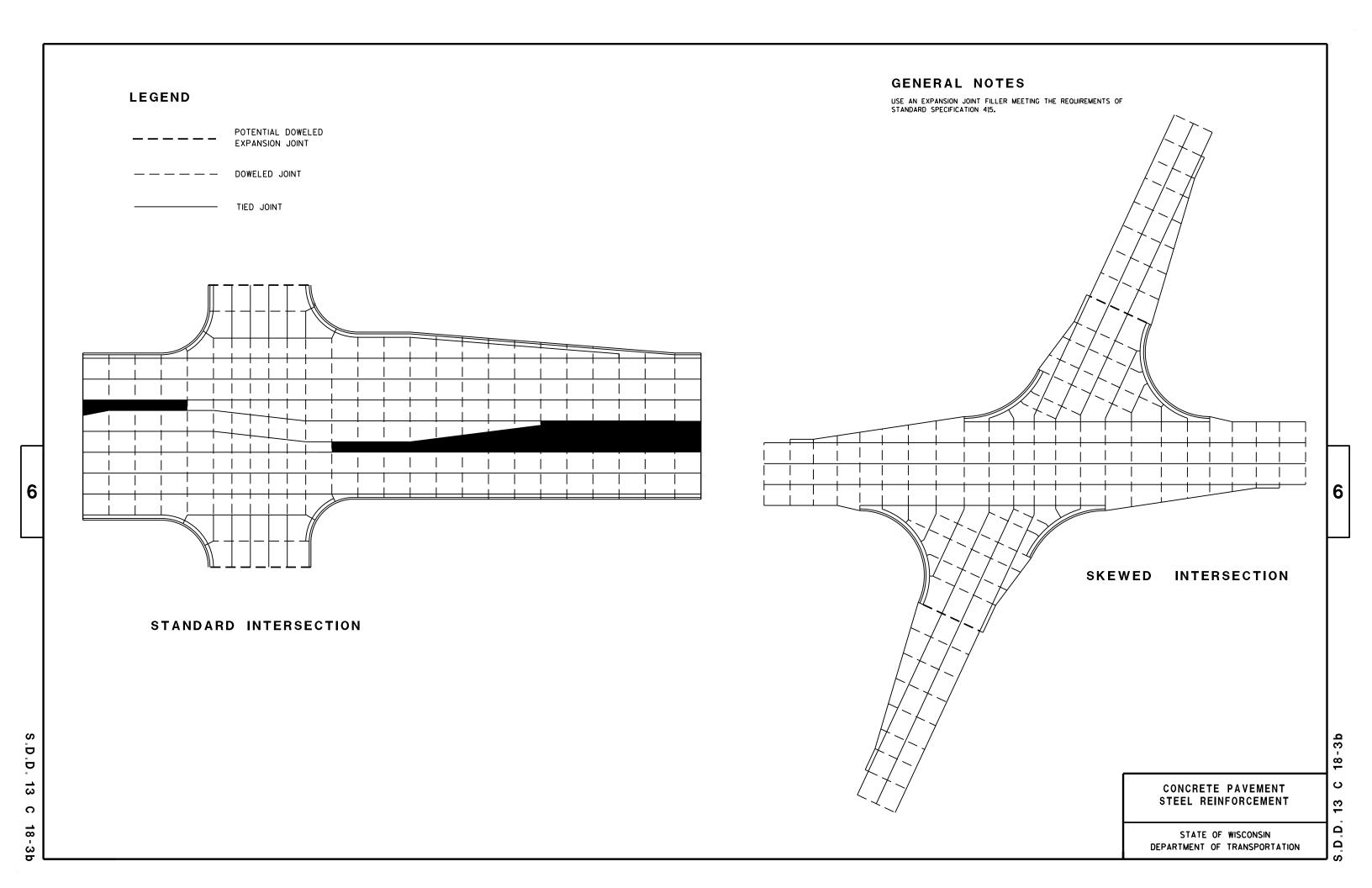
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER

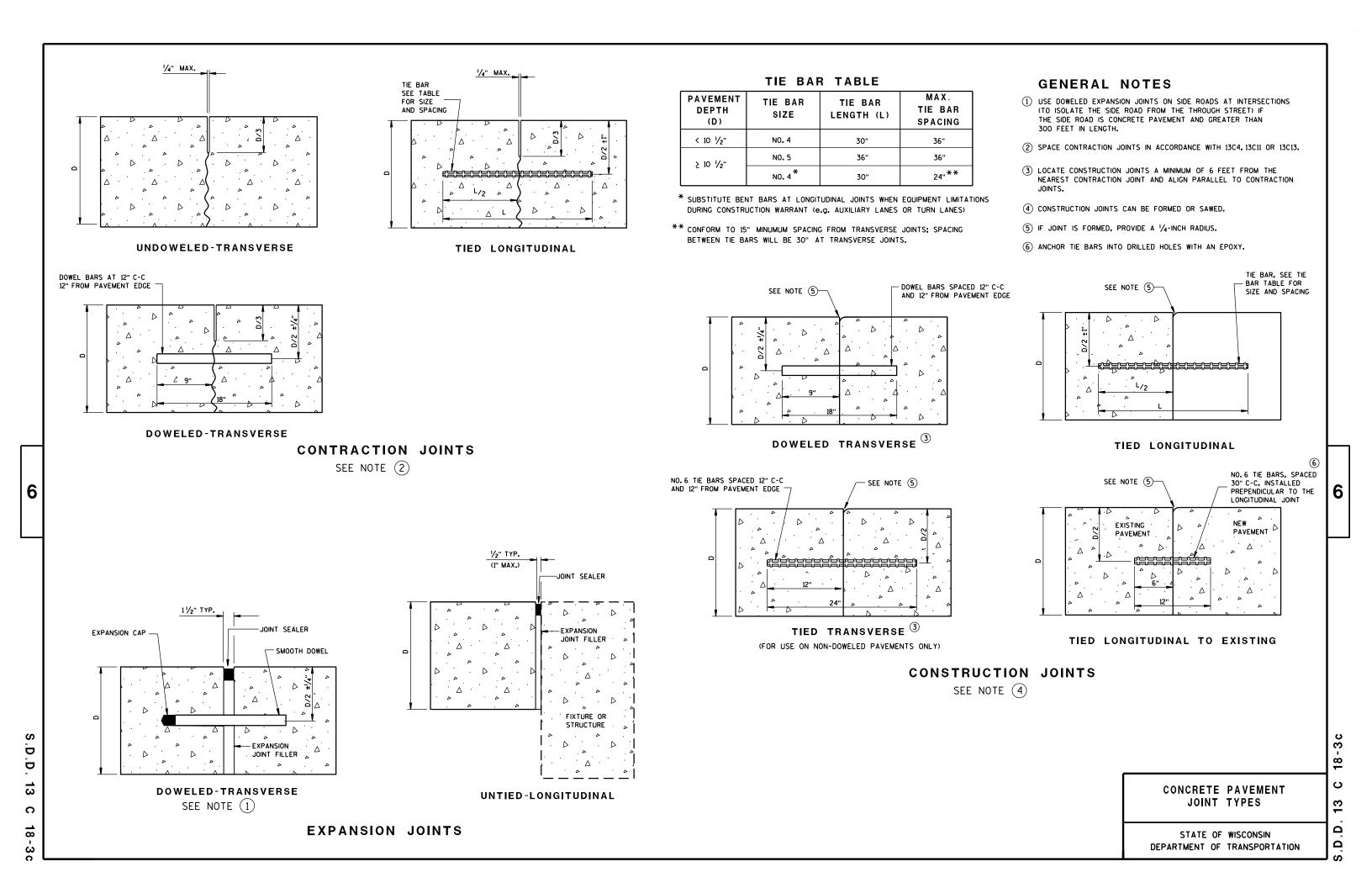
D D $\overline{\omega}$ C

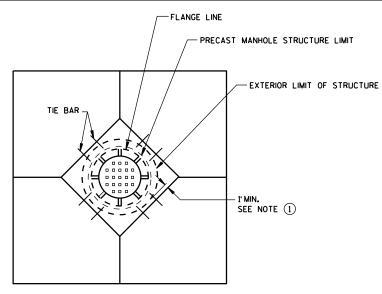
Ω

13

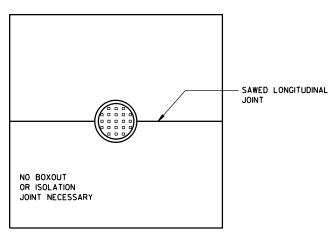




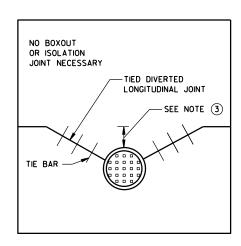




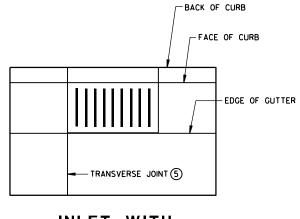
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



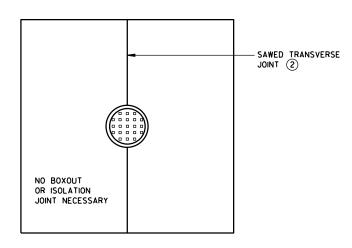
MANHOLE WITH LONGITUDINAL JOINT



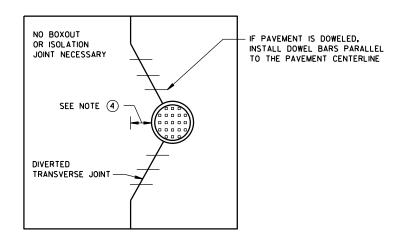
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

- 1 USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS. DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS. REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED DATE

/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR FHWA

8

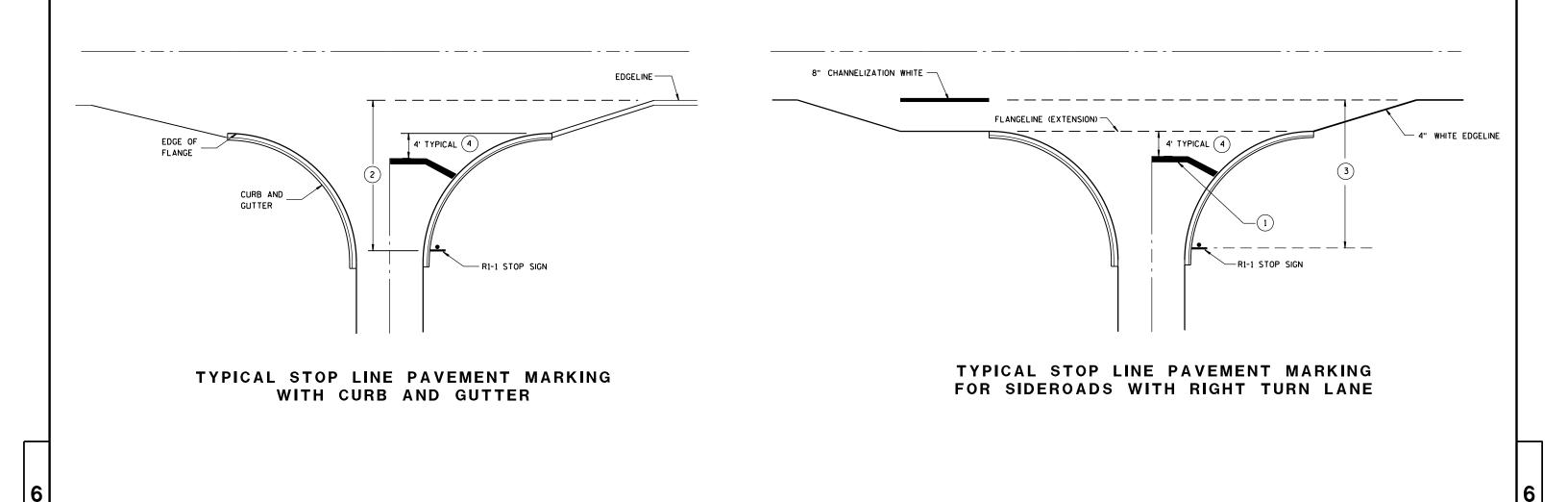
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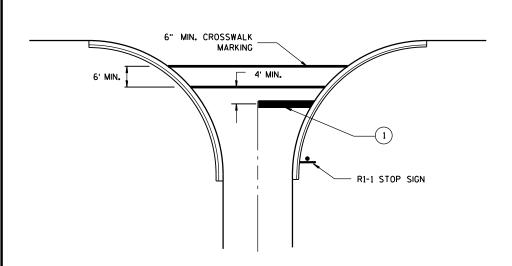
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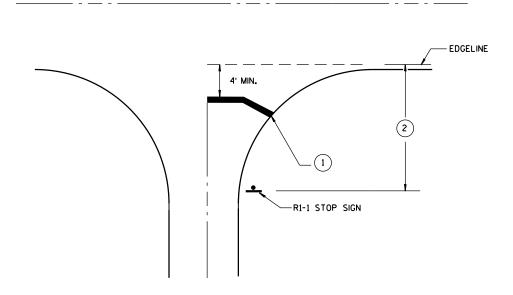
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6





TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

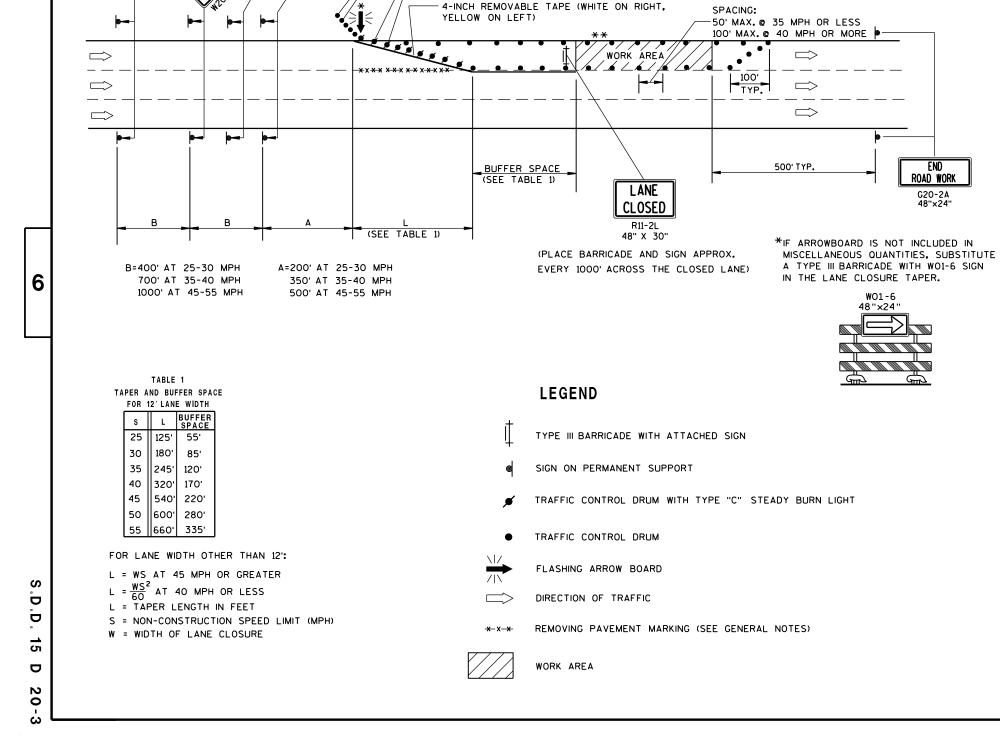
APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

S.D.D.

33





(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25'@ 35 MPH OR LESS

50'@ 40 MPH OR MORE

TEMPORARY PAVEMENT MARKING.

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC, IN ADVANCE OF THE WORK AREA.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W2O-1, G2O-1 AND G2O-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

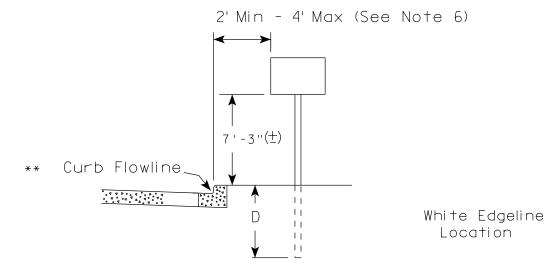
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

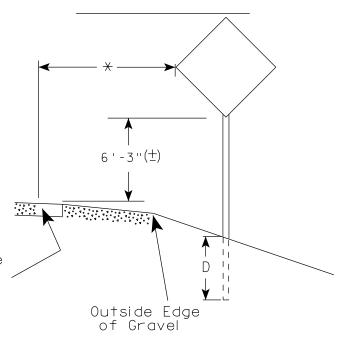
APPROVED
Feb. 2015
DATE
STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 D 2

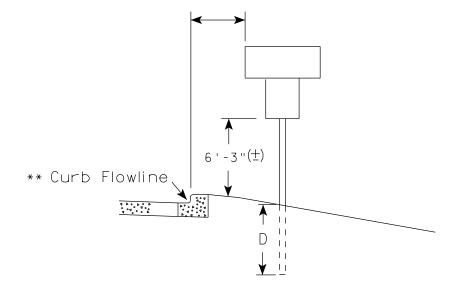
URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) A POLICE AND A POL White Edgeline D^{-1} Location Outside Edae 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: mscsja

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 $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) 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 (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

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

SHEET NO:

APPROVED

for State Traffic Engineer

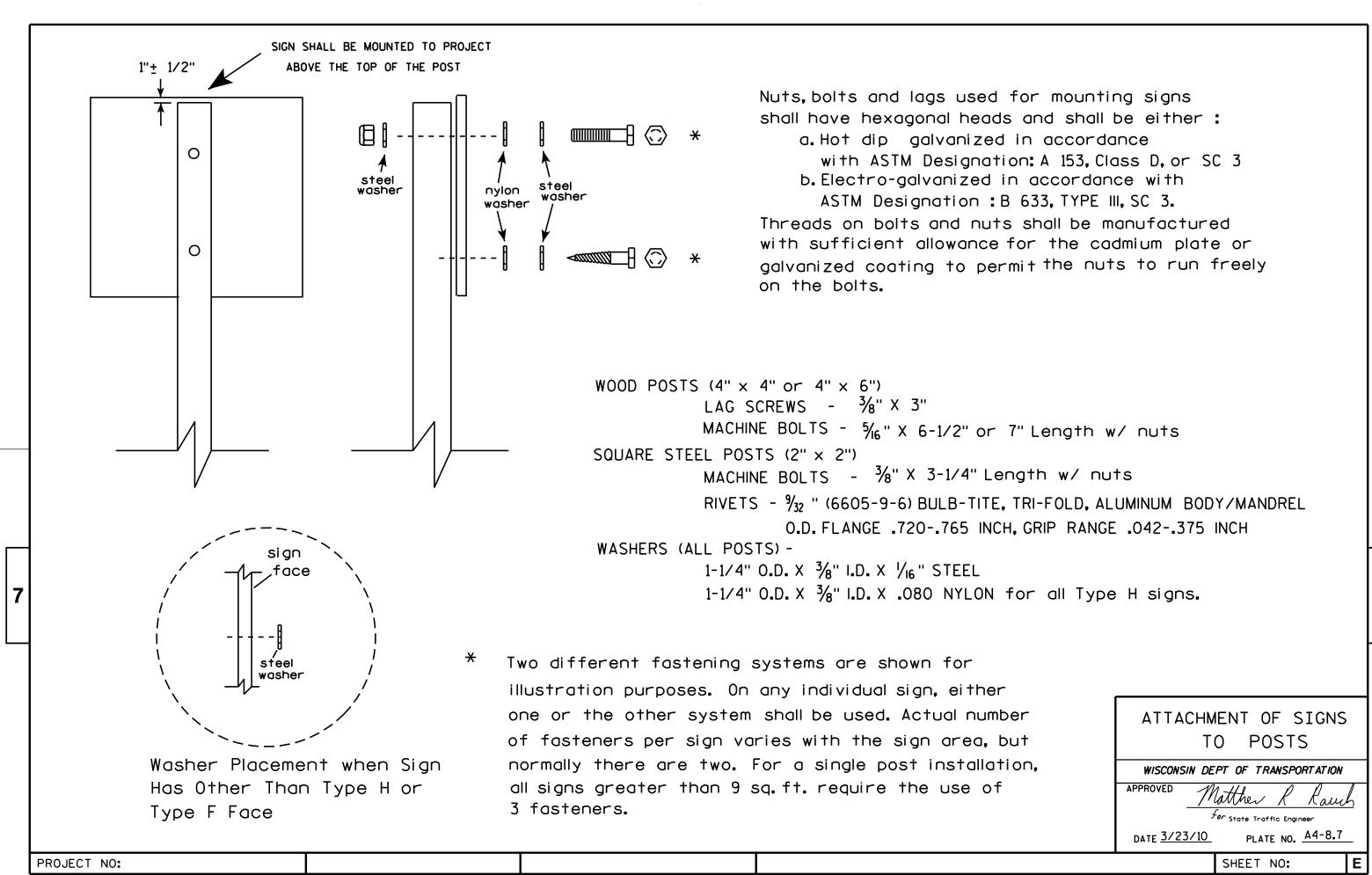
DATE 11/12/14

PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN COUNTY:

PLOT DATE: 12-NOV-2014 14:03

PLOT NAME :

WISDOT/CADDS SHEET 42





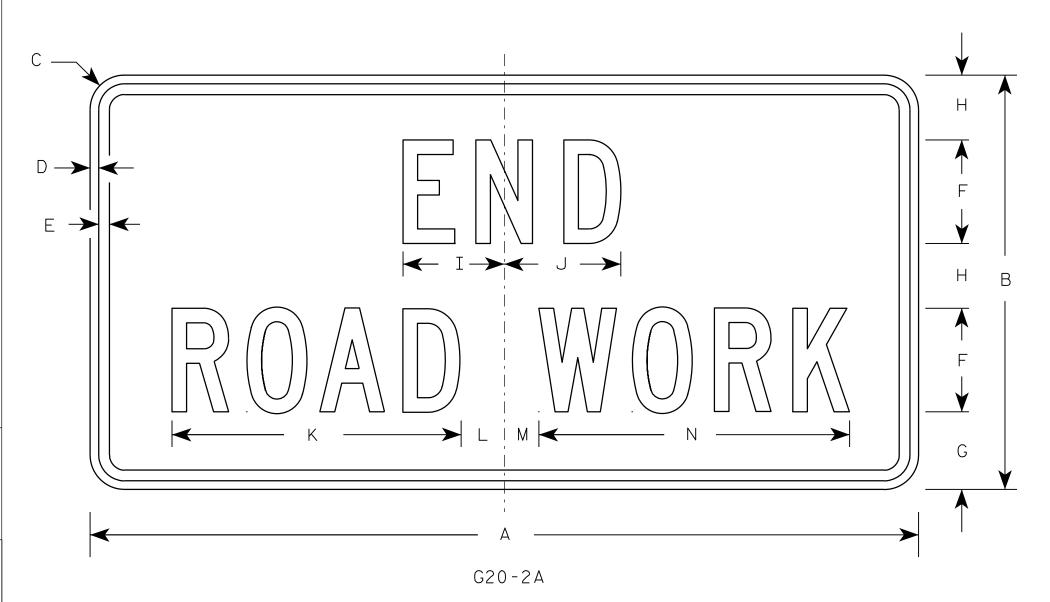
NOTES

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

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 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.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

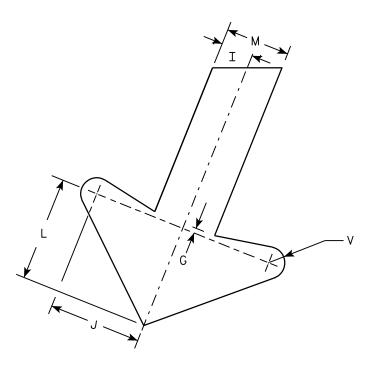
R3-20R

HWY:

- 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	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	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 %	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
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 Rauch
Forstate Traffic Engineer

SHEET NO:

DATE 10/18/10

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

М

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PLOT DATE: 15-OCT-2010 14:59 PLOT BY: do+sja

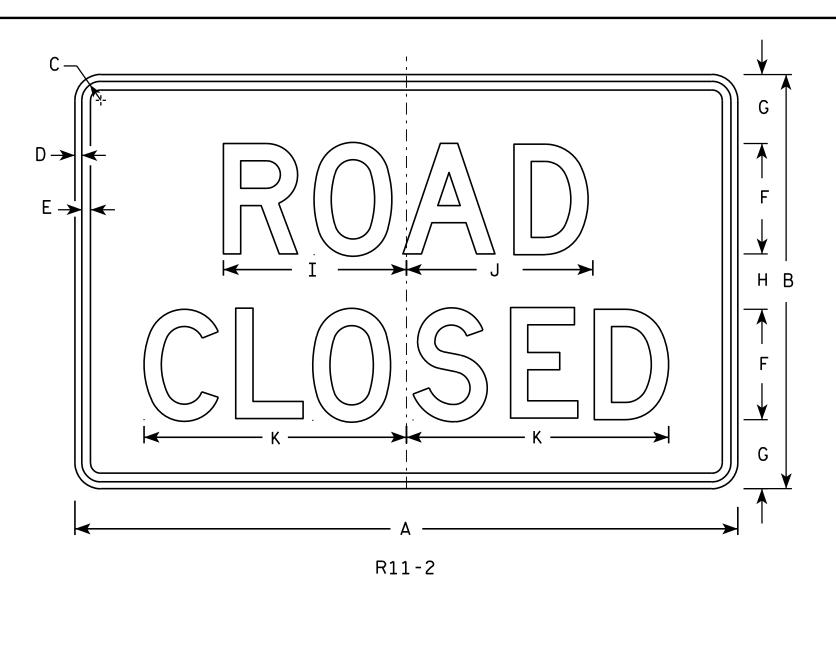
PLOT NAME :

PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320R.DGN

PROJECT NO:

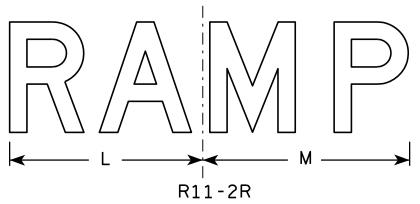


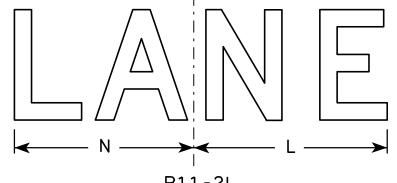
<u>NOTES</u>

- 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.
- 5. Modify the message as required.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	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																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	I	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:

NOTES

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

Background - Orange 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.

c —	
D → ←	
K L L L L L L L L L L L L L L L L	
M —	→ I ← I
N	Н — Н
l⊸ MO	1-6

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																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

HWY:

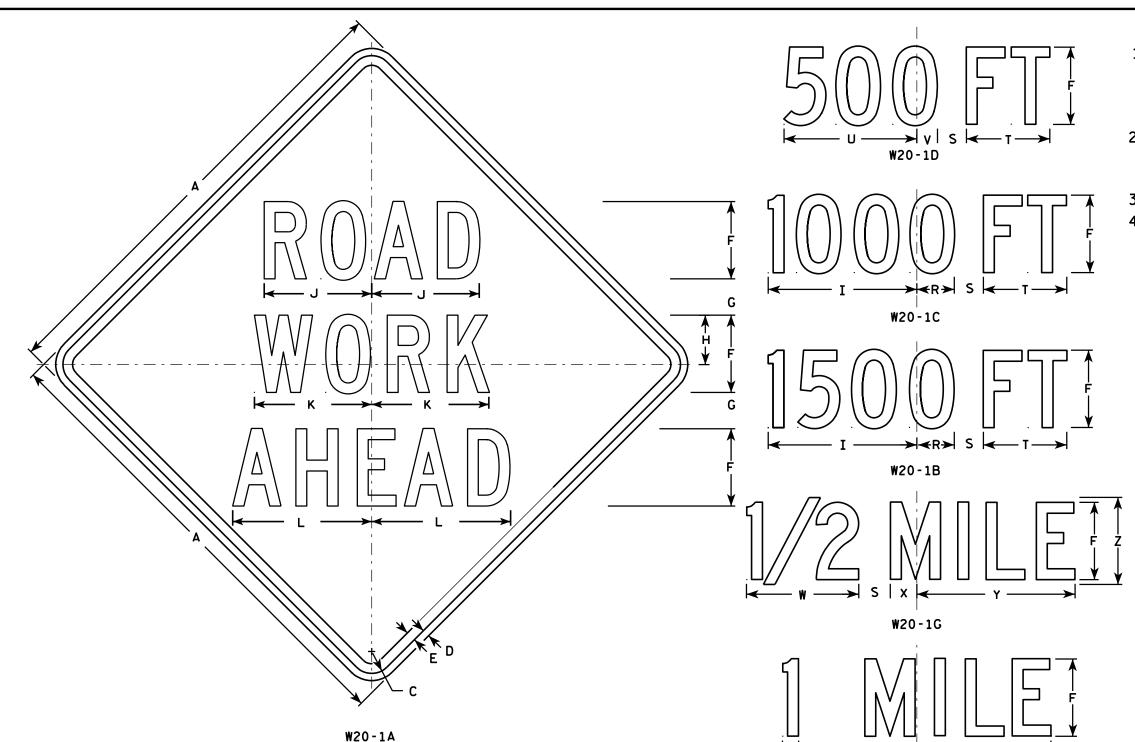
PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000



7 5/8 8 7/8 1 1/8 4 1/2 3 1/2

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 |

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 3/8 | 5 3/8

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 |

| 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 |

NOTES

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

Background - Orange Message - Black

3. Message Series - C

Area sq. ft.

16.0

16.0

16.0

1 3/4 10 3/4

16 3/8 9

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 W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Laure

for State Traffic Engineer

DATE 3/18/11 PLATE NO. W2

ATE 3/18/11 PLATE NO. W20-1.9

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN

1 3/8

2 1/4

2 1/4

1/2

3/4

3/4

2 \\ 8 | 3 \\ 4 | 10 \\ 8 |

SIZE A

3

4

5

36

48

48

48

48

48

PROJECT NO:

PLOT DATE: 18-MAR-2011 09:56

PLOT BY : mscj9h

W20-1F

1 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

8 \% | 13 \% | 2 \% | 11 \% | 2 \% | 16 \% | 9

| 13 3/4 | 2 1/8 | 11 1/8 | 2 3/4 |

5 %

8 %

2 1/2 1 1/8

3 1/8

3 %

3 %

3 %

NOTES

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

Background - Orange Message - Black

- 3. Message Series See Note 5
- 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. " _____ LANE" is Series B. All other copy is Series C.

W20-5D

W20-5B

W20-5G

PLOT BY: mscj9h

->IOI← R-		
	W20-5F	

	36 6 1 \(\frac{1}{8} \) \(\frac{5}{8} \) \(\frac{3}{4} \) 5 \(\frac{7}{8} \) 2 \(\frac{1}{2} \) 13 \(\frac{1}{8} \) 10 \(\frac{3}{4} \) 9 \(\frac{1}{2} \) 14 \(\frac{1}{4} \) 13 \(\frac{5}{8} \) 12 \(\frac{1}{2} \) 1 \(\frac{3}{8} \) 1 \(\frac{1}{8} \)																										
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5		2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 1/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 ¾	2 3/8	10 %	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Kauch Fer State Traffic Engineer DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN

PROJECT NO:

HWY:

W20-56A

W20-55A

PLOT DATE: 18-MAR-2011 12:15

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42

			Area	(SF)	Incremental Vol (CY) (Unadjusted)	Cumulat	ive Vol (CY)	
Station	Real Station	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
					Note 1	Note 2	Note 1		Note 3
11+25	1125	0	0	0	0	0	0	0	0
11+50	1150	25	15	0	7	0	7	0	7
11+75	1175	25	23	1	18	1	25	1	24
12+00	1200	25	31	1	25	1	49	2	47
12+25	1225	25	46	1	36	1	85	4	82
12+50	1250	25	49	1	44	1	129	4	125
12+75	1275	25	50	1	46	1	175	5	170
13+00	1300	25	44	2	44	1	218	6	212
13+25	1325	25	49	12	43	6	262	14	247
13+50	1350	25	198	0	114	6	376	21	355
13+75	1375	25	151	0	161	0	537	21	516
14+00	1400	25	0	0	70	0	607	21	586

607

17

Notes	
1 - Cut	Salvaged/Unusable Pavement Material is Included in Cut
2 - Fill	Does Not Include Pavement Excavation Volume
3 - Mass Ordinate	[(Cut) - ((Fill) * Fill Factor)]

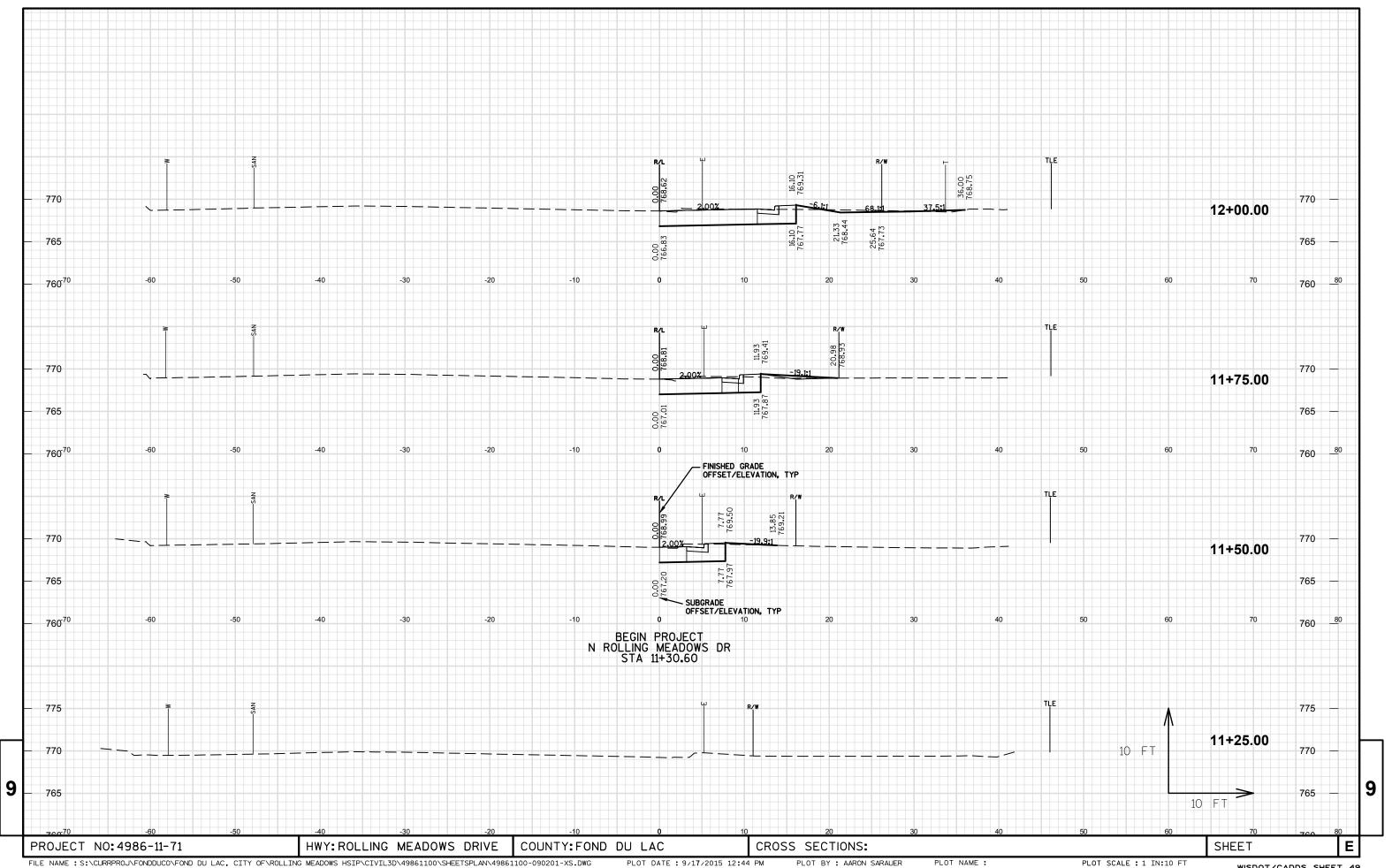
9

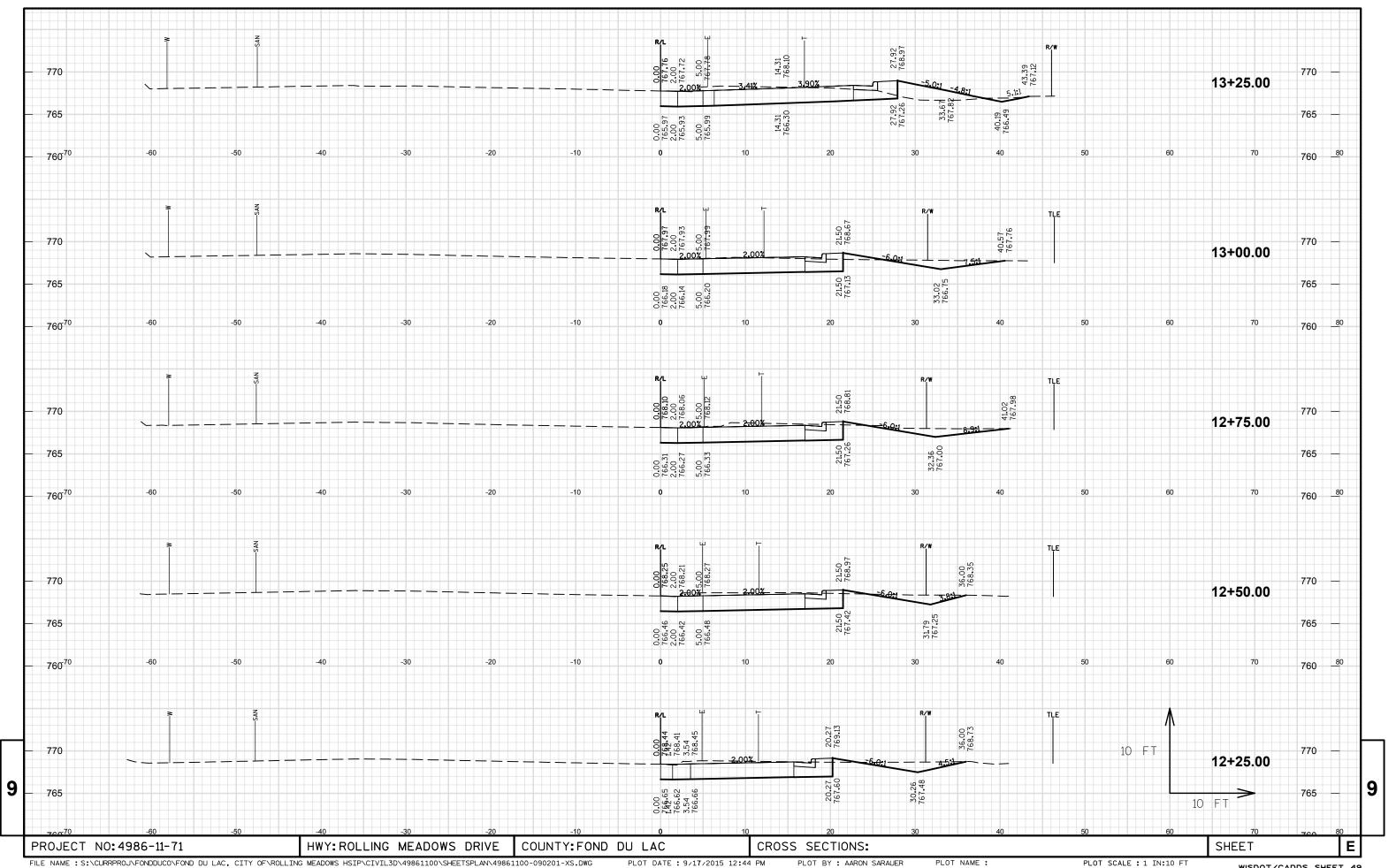
9

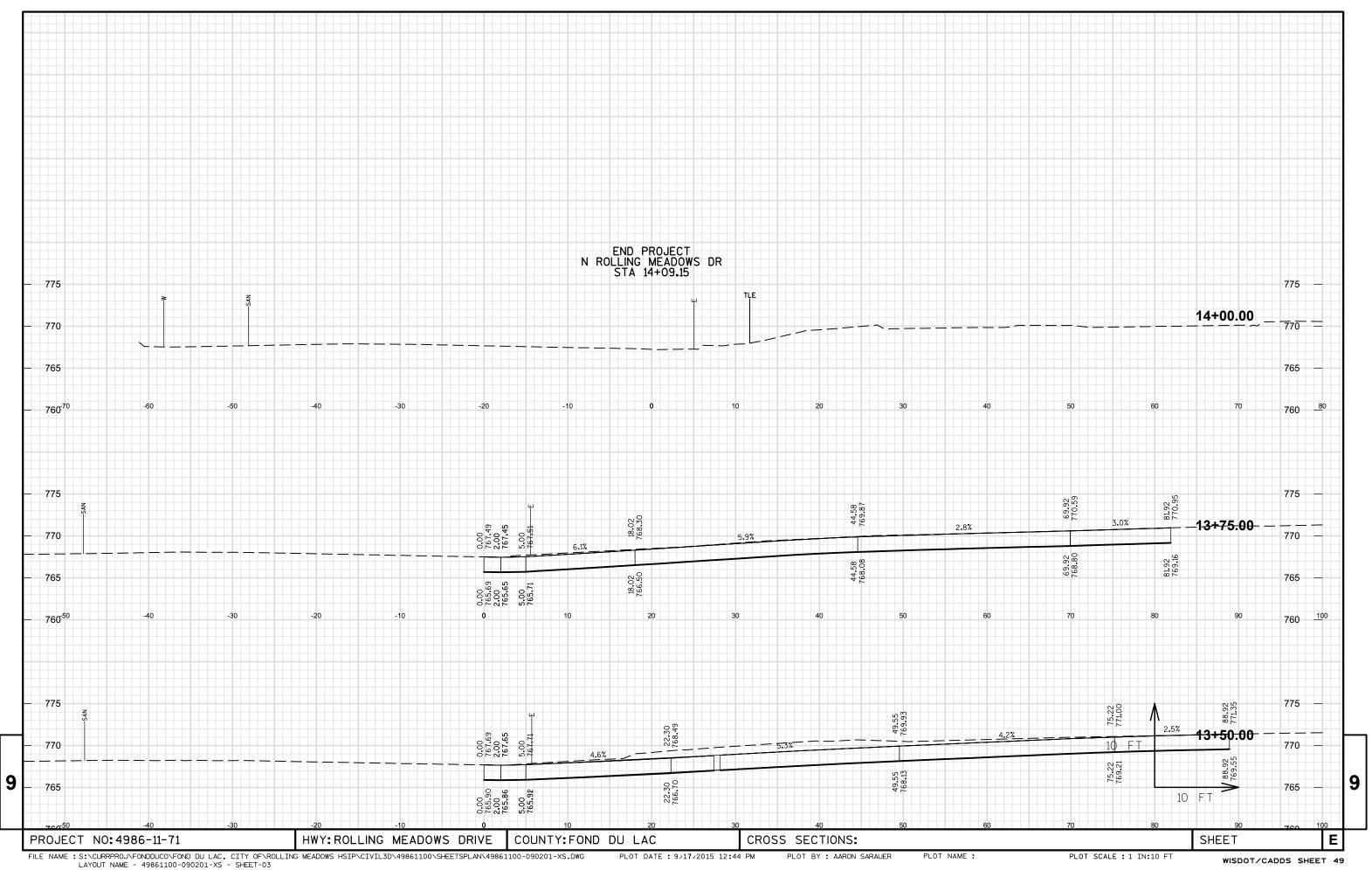
PROJECT NO: 4986-11-71 HWY: ROLLING MEADOWS DRIVE COUNTY: FOND DU LAC COMPUTER EARTHWORK DATA SHEET **E**

FILE NAME : 022601_ss.ppt PLOT BY : gaajs PLOT NAME : PLOT SCALE : 1:1

Column Totals









Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov