

2022

2042

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

= 2780

= 3300

= 386

= 10.6%

= 55 MPH

Miscellaneous Quantities

Standard Detail Drawings

PROJECT LOCATION

1//////

PROFILE GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE

(To be noted as such) SPECIAL DITCH

GRADE ELEVATION

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

STORM SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

X

6

TELEPHONE

WATER

CULVERT (Profile View)

30

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

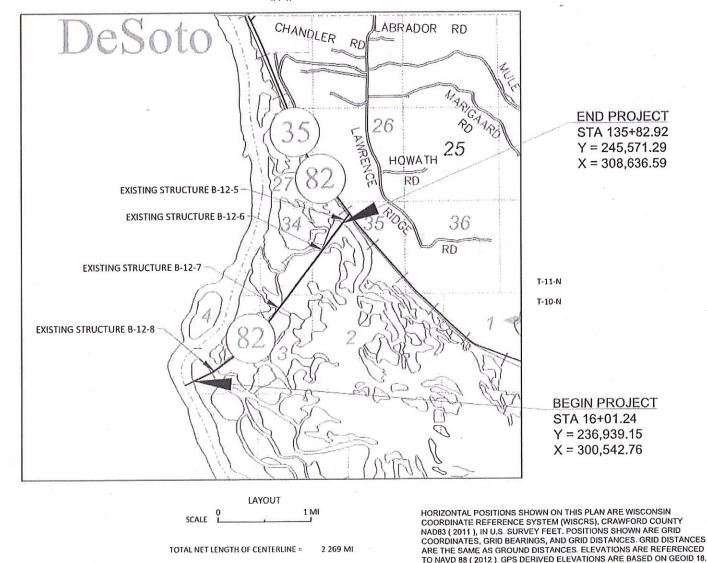
PLAN OF PROPOSED IMPROVEMENT

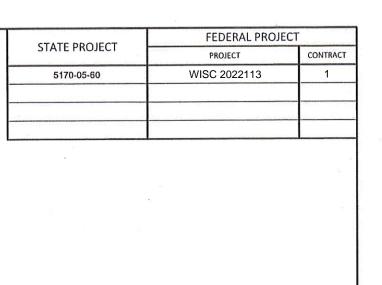
LANSING - DE SOTO

IOWA STATE LINE TO STH 35

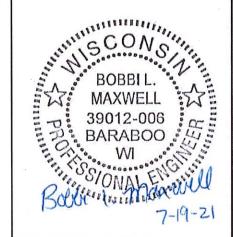
STH 82 CRAWFORD COUNTY

> STATE PROJECT NUMBER 5170-05-60









STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MSA PROFESSIONAL SERVICES, INC. MSA PROFESSIONAL SERVICES, INC. EMMANUEL YARTEY, P.E SW REGION

Ε

SECTION 2 ORDER OF SHEETS

MISCELLANEOUS

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA, HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS.

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEM TO BE REMOVED/MOVED OR UNLESS THE ENGINEER APPROVES THEM TO BE REMOVED/MOVED.

GENERAL NOTES

REMOVALS

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

GRADING AND EROSION CONTROL

DO NOT STORE EQUIPMENT OR MATERIALS IN, NOR IMPACT ANY WETLANDS OR WATERWAYS OUTSIDE THE SLOPE INTERCEPTS SHOWN.

PAVING

PROJECT NO:

FILE NAME :

5170-05-60

CURVE DATA BASED ON ARC DEFINITION.

HMA WEIGHT CALCULATIONS BASED ON 113 LBS/SY/IN

APPLY TACK COAT A RATE OF 0.07 GAL/SY TO MILLED SURFACES.

THE CONTRACTOR'S PAVING OPERATIONS 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.

UNLESS OTHERWISE SHOWN ON THE PLAN, SAWCUT ALL MATCHING DRIVEWAYS AND STREETS. COST OF CUTTING IS TO BE PAID FOR UNDER "SAWING ASPHALT" FOR ASPHALT PAVEMENT OR "SAWING CONCRETE" FOR CONCRETE PAVEMENT.

Dial or (800)242-8511

www.DiggersHotline.com

HWY: STH 82

1. GENERAL NOTES

2. PROJECT OVERVIEW

3. EXISTING TYPICAL SECTIONS

4. FINISHED TYPICAL SECTIONS

5. CONSTRUCTION DETAILS

6. PLAN DETAILS

7. ALIGNMENT DIAGRAM

ABBREVIATIONS

AC AC AEW ASPH AVG ADT BAD BM CL CC CONC CMCP CPRC CSCP CSM CTH CULV CP C&G D DHV DIA DWY E X ELEV EW ENT ESALS EXC EBS EXIST FF FERT FE FG FT	ACRES ASPHALT CEMENT APRON ENDWALL ASPHALT AVERAGE AVERAGE DAILY TRAFFIC BASE AGGREGATE DENSE BENCHMARK CENTERLINE CENTER TO CENTER CONCRETE CORRUGATED METAL CULVERT PIPE CULVERT PIPE REINFORCED CONCRETE CORRUGATED STEEL CULVERT PIPE CERTIFIED SURVEY MAP COUNTY TRUNK HIGHWAY CULVERT CULVERT CULVERT PIPE CURB & GUTTER DEGREE OF CURVE DESIGN HOURLY VOLUME DIAMETER DRIVEWAY EAST EAST GRID COORDINATE ELEVATION ENDWALL ENTRANCE EQUIVALENT SINGLE AXLE LOADS EXCAVATION EXCAVATION BELOW SUBGRADE EXISTING FACE TO FACE FERTILIZER FIELD ENTRANCE FINISHED GRADE FOOT		RIGHT-OF-WAY RIGHT HAND FORWARD SALVAGED SHOULDER STANDARD DETAIL DRAWING STATION SUPERELEVATION
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WISDOT DESIGN CONTACT

WISDOT SW REGION ATTN: EMMANUEL YARTEY, P.E. 2101 WRIGHT ST MADISON, WI 53704 OFFICE: (608) 884-7131 MOBILE: (608) 516-6541

EMAIL: EMMANUEL.YARTEY@DOT.WI.GOV

MSA DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: BOBBI MAXWELL, P.E. 1230 SOUTH BOULEVARD BARABOO, WI 53913 OFFICE: (608) 355-8861 EMAIL: BMAXWELL@MSA-PS.COM

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ATTN: KAREN KALVELAGE ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST DNR SERVICE CENTER 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 OFFICE: (608) 785-9115 EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

SHEET

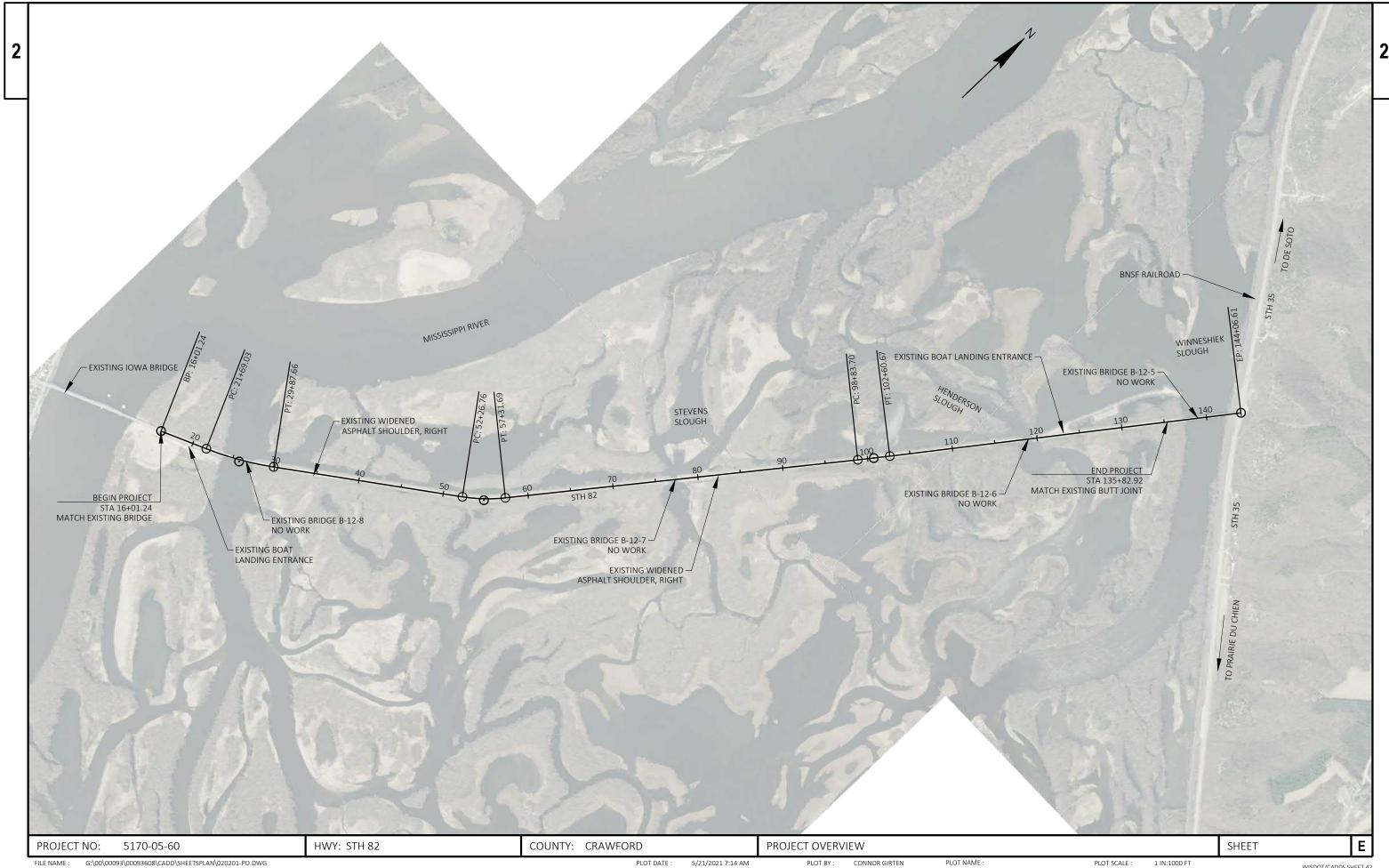
COUNTY: CRAWFORD

UTILITIES

NONE

G:\00\00093\00093608\CADD\SHEETSPLAN\020101-GN.DWG PLOT BY: BOBBI MAXWELL PLOT NAME : PLOT SCALE : 10/25/2021 9:49 AM 1 IN:100 FT WISDOT/CADDS SHEET 42

GENERAL NOTES

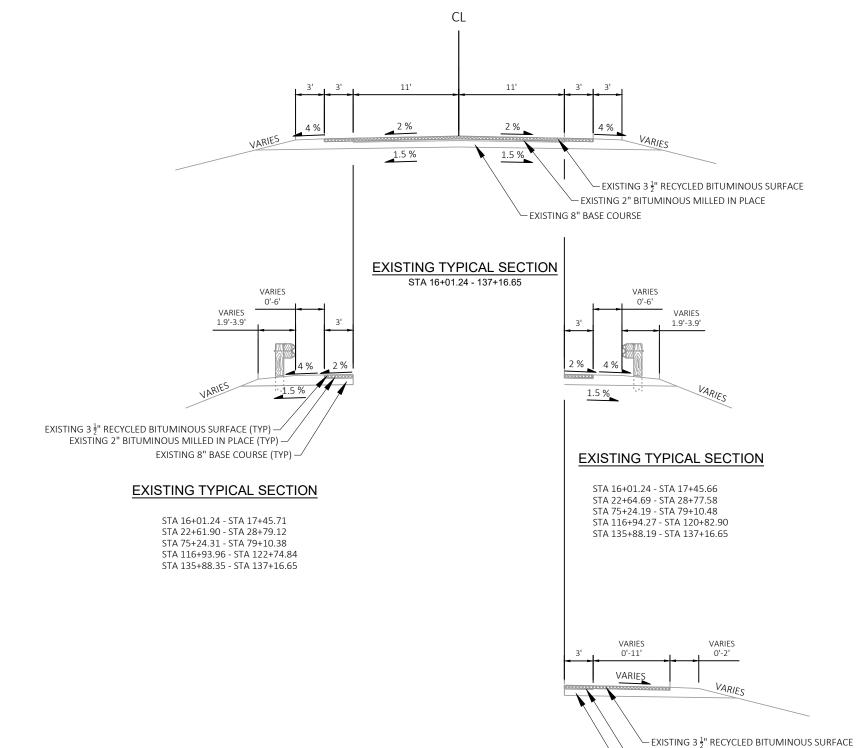


G:\00\00093\00093608\CADD\SHEETSPLAN\020201-PO.DWG LAYOUT NAME - 01

WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

EXISTING 8" BASE COURSE

EXISTING 2" BITUMINOUS MILLED IN PLACE

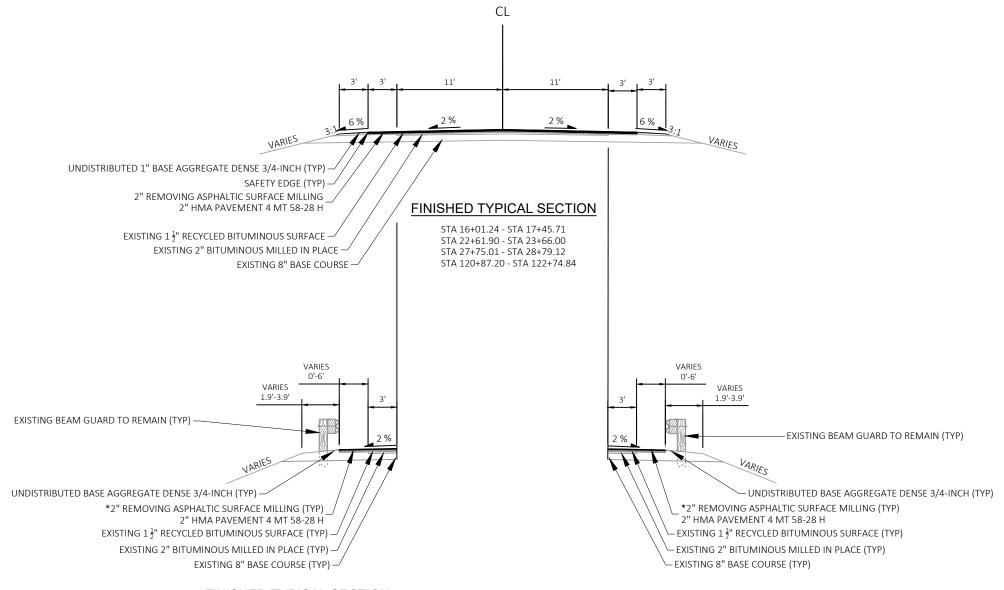
STA 31+74.45 - STA 38+63.41 STA 79+94.11 - STA 86+29.09

COUNTY: CRAWFORD Ε PROJECT NO: 5170-05-60 HWY: STH 82 TYPICAL SECTIONS SHEET G:\00\00093\00093608\CADD\SHEETSPLAN\020301-TS.DWG 7/8/2021 11:59 AM PLOT BY: CONNOR GIRTEN PLOT NAME : PLOT SCALE : 1 IN:10 FT

FILE NAME :







FINISHED TYPICAL SECTION

STA 16+01.24 - STA 17+45.71 STA 22+61.90 - STA 23+66.00 STA 27+75.01 - STA 28+79.12 STA 120+87.20 - STA 122+74.84

FINISHED TYPICAL SECTION

STA 16+01.24 - STA 17+45.66 STA 22+64.69 - STA 23+66.00 STA 27+75.01 - STA 28+77.58

NOTES:

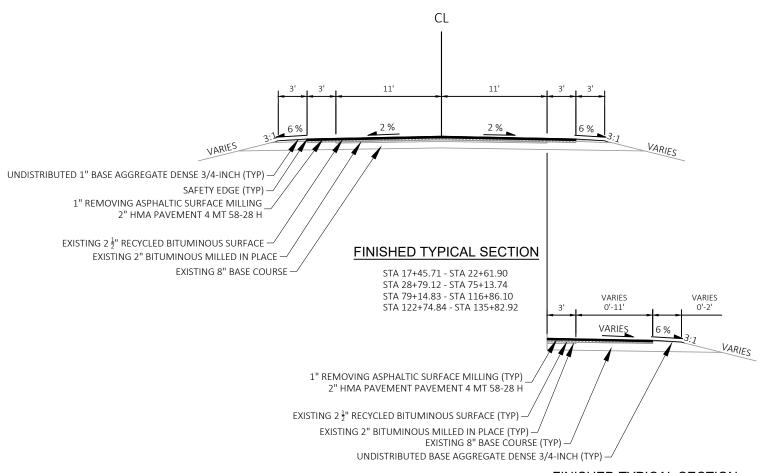
* 2" GRAVEL TO BE REMOVED WITH MILLING OPERATIONS IN AREAS WHERE THERE IS NO EXISTING ASPHALT.

PROJECT NO: \$170-05-60 HWY: STH 82 COUNTY: CRAWFORD TYPICAL SECTIONS

FILE NAME: \$6,000,00093,00093,6008,CADD\SHEETSPLAN\020301-TS.DWG

LAYOUT NAME - 02-10ft

WISDOT/CADDS SHEET 42



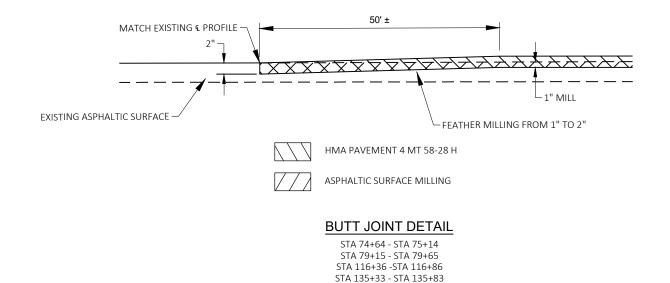
FINISHED TYPICAL SECTION

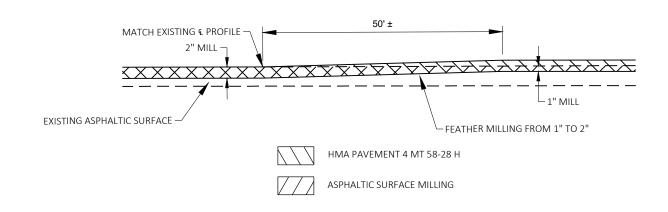
STA 31+74.45 - STA 38+63.41 STA 79+94.11 - STA 86+29.09

Ε PROJECT NO: 5170-05-60 HWY: STH 82 COUNTY: CRAWFORD TYPICAL SECTIONS SHEET G:\00\00093\00093608\CADD\SHEETSPLAN\020301-TS.DWG PLOT SCALE : 1 IN:10 FT

FILE NAME : LAYOUT NAME - 03-10ft 7/8/2021 11:59 AM PLOT BY: CONNOR GIRTEN PLOT NAME :







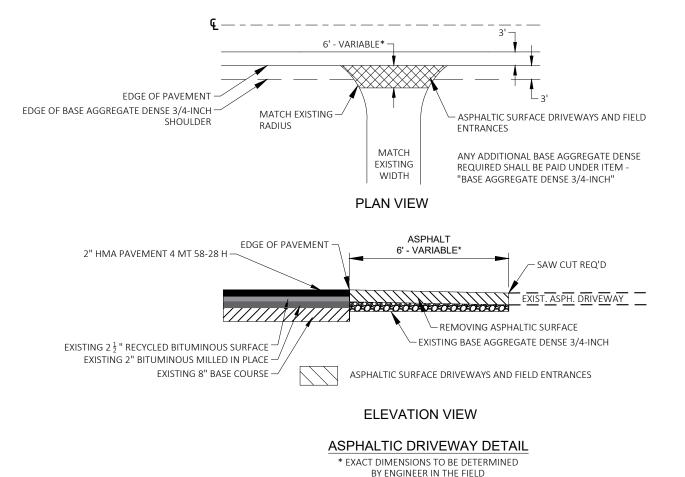
MILLING TRANSITION DETAIL

STA 17+46 - STA 17+96 STA 22+11 - STA 22+61 (REVERSED) STA 28+79 - STA 29+29 STA 122+75 - STA 123+00

RUNOFF COEFFICIENT TABLE

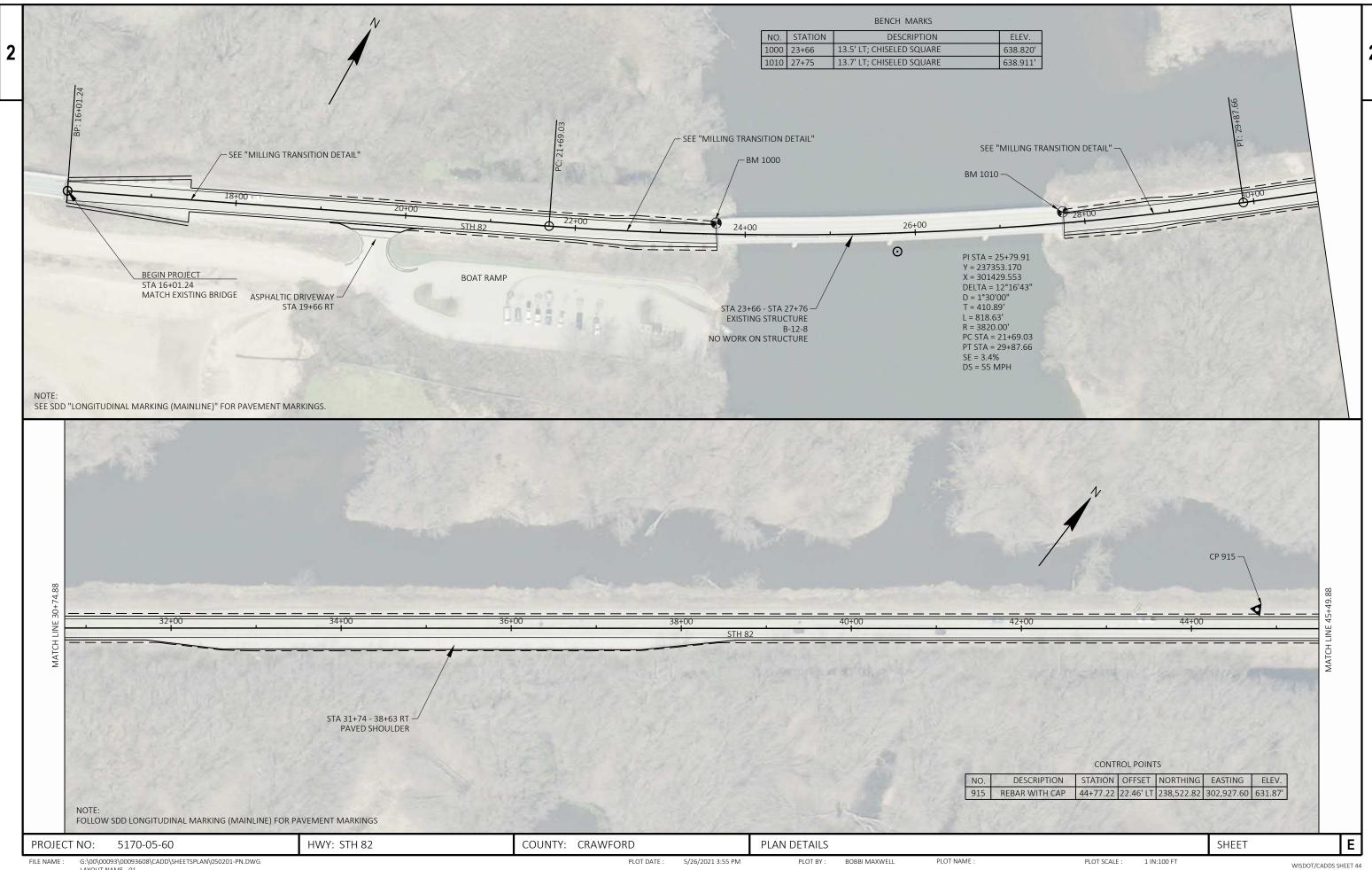
		HYDROLOGIC SOIL GROUP												
			А		B SLOPE RANGE (PERCENT)			C SLOPE RANGE (PERCENT)			D SLOPE RANGE (PERCENT)			
	SLOPI	E RANGE	(PERCENT)	S										
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER		
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56		
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40		
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38		
PAVEMENT:	_			•	_	•	•			•		•		
ASPHALT						.7095								
CONCRETE						.8095								
BRICK						.7080								
DRIVES, WALKS						.7585								
ROOFS						.7595								
GRAVEL ROADS, SH	OULDERS				_	.4060								

TOTAL PROJECT AREA = 18.35 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ____O.00__ACRES

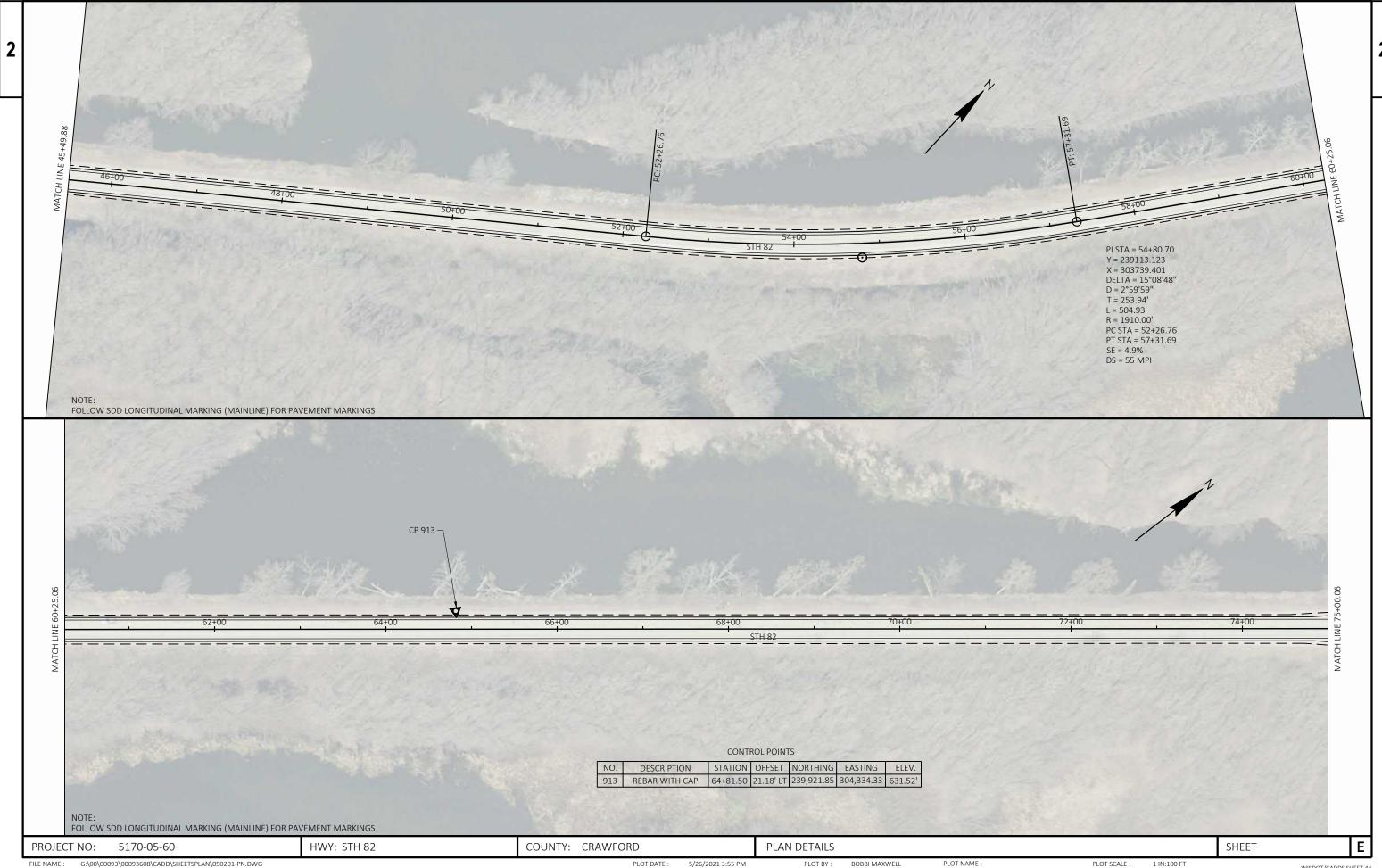


BY ENGINEER IN THE FIELD STA 19+66 RT STA 123+18 LT

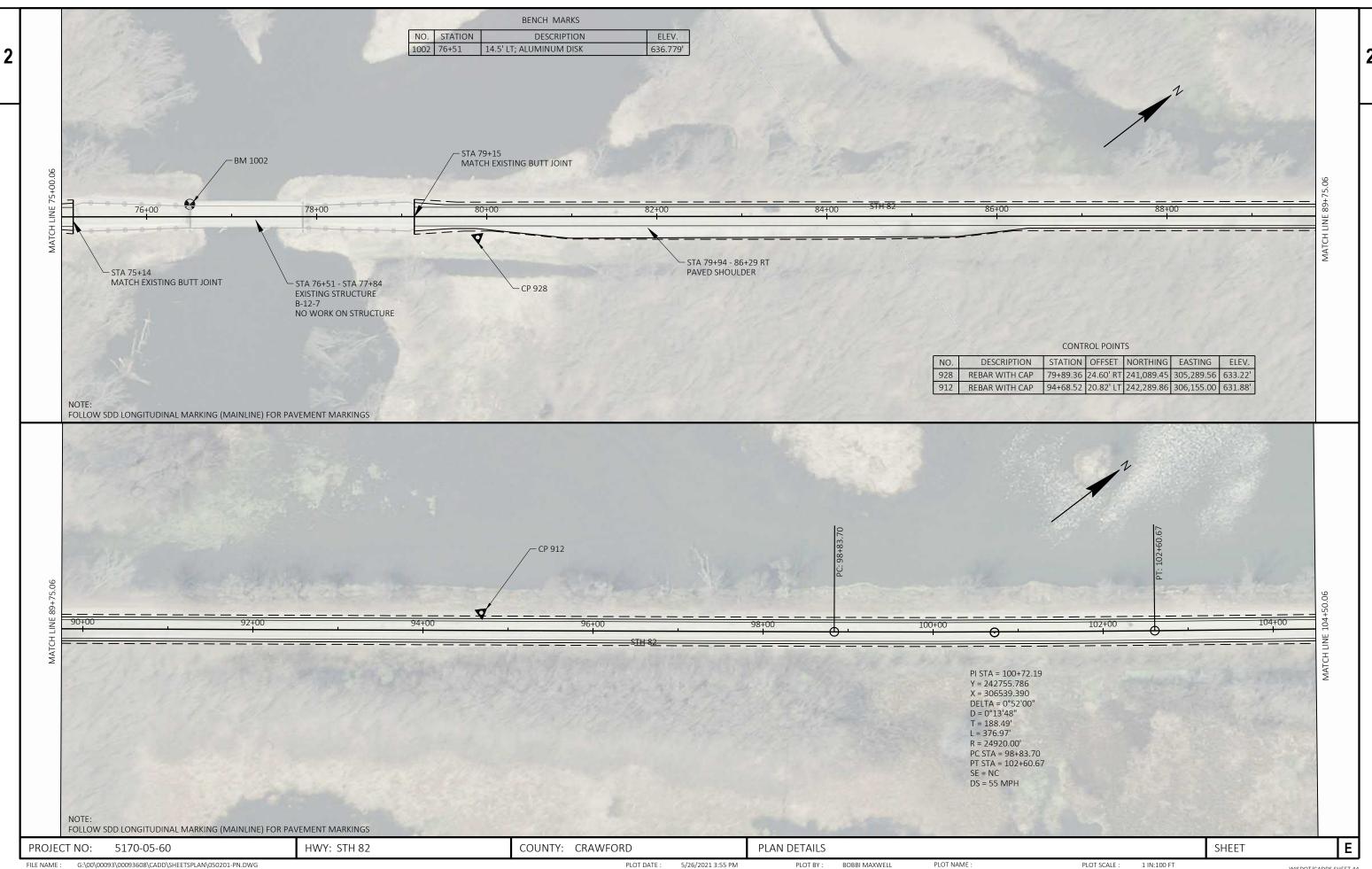
Ε PROJECT NO: 5170-05-60 HWY: STH 82 COUNTY: CRAWFORD **CONSTRUCTION DETAILS** SHEET PLOT BY: BOBBI MAXWELL 5/26/2021 3:37 PM 1 IN:10 FT FILE NAME :



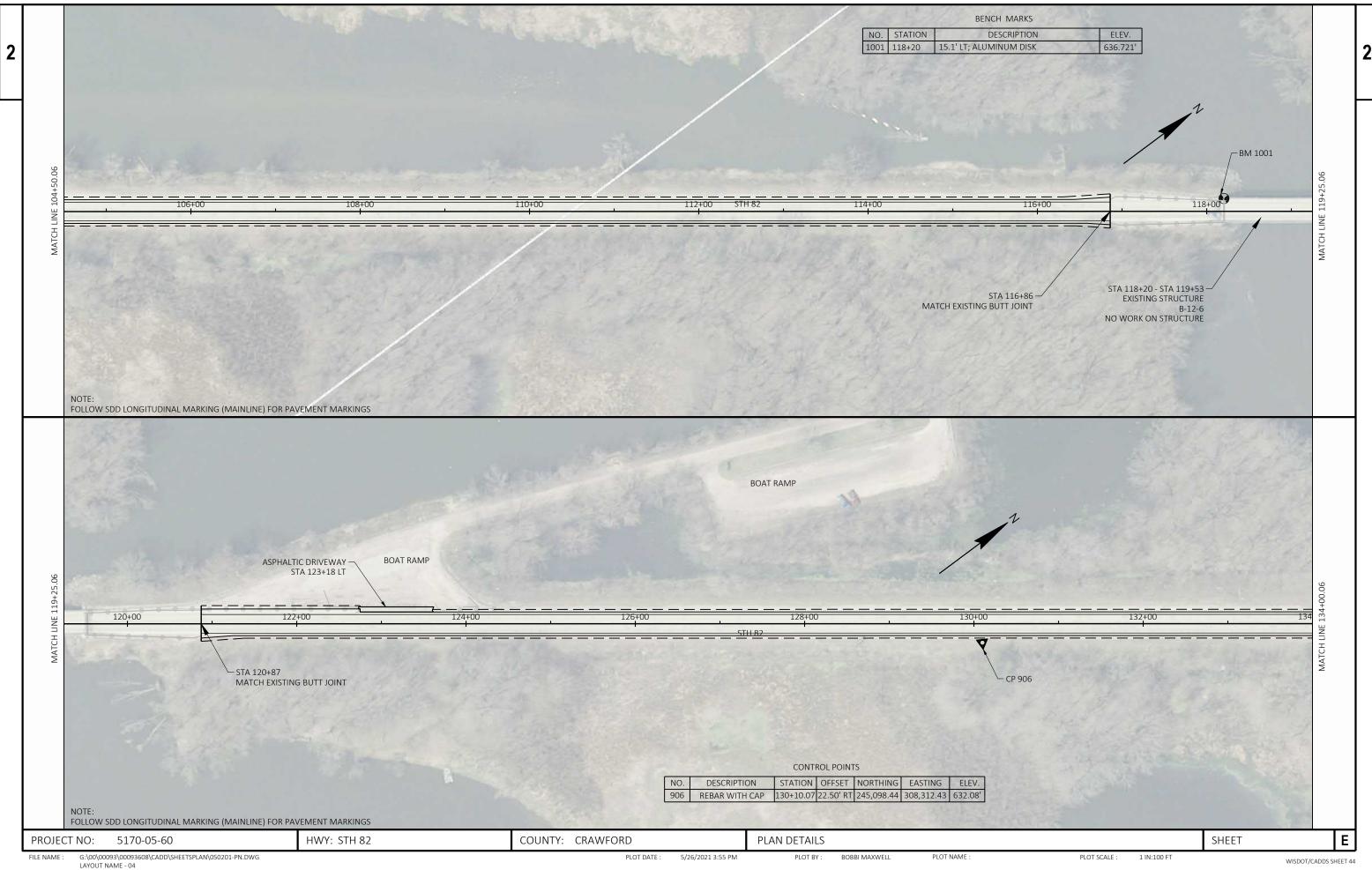
LAYOUT NAME - 01

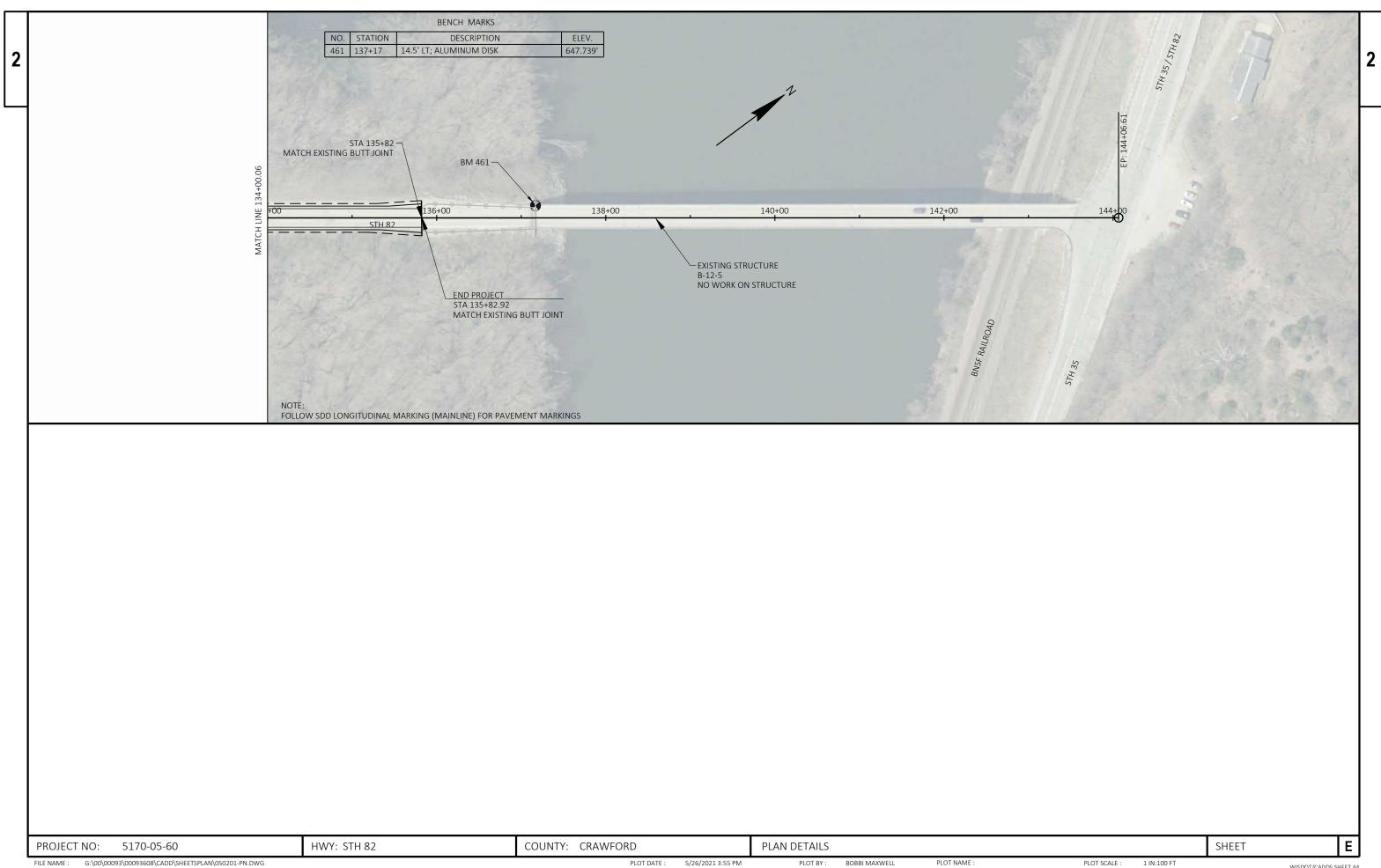


G:\00\00093\00093608\CADD\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 02

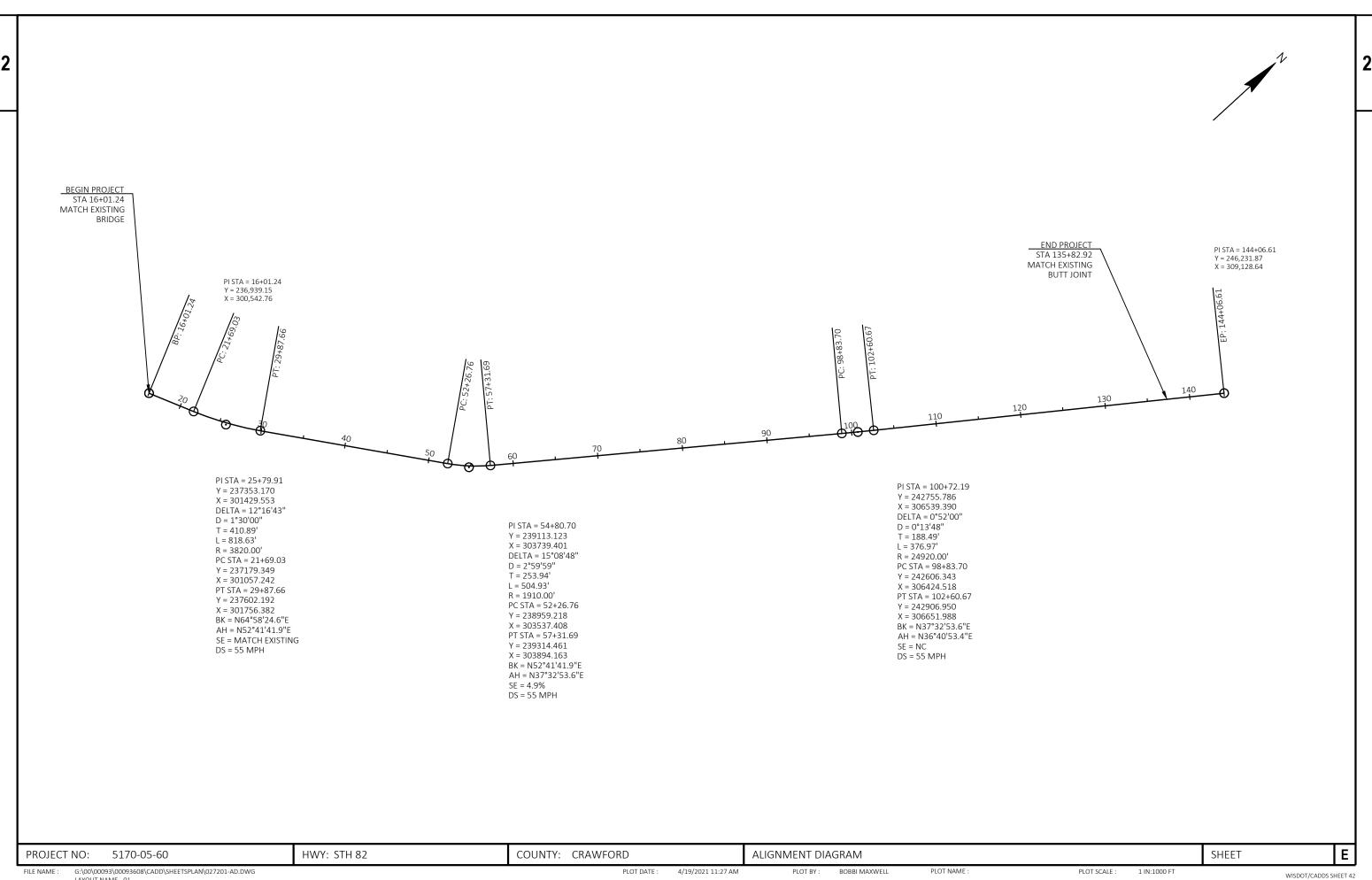


G:\00\00093\00093608\CADD\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 03





G:\00\00093\00093608\CADD\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 05 WISDOT/CADDS SHEET 44



LAYOUT NAME - 01

5170-05-60	

					0110 00 00
Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	110.000	110.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	625.000	625.000
0006	204.0120	Removing Asphaltic Surface Milling	SY	34,708.000	34,708.000
8000	211.0100	Prepare Foundation for Asphaltic Paving (project) 01.5170-05-60	LS	1.000	1.000
0010	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	3.000	3.000
0012	213.0100	Finishing Roadway (project) 01. 5170-05-60	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,527.000	1,527.000
0016	455.0605	Tack Coat	GAL	2,469.000	2,469.000
0018	460.2000	Incentive Density HMA Pavement	DOL	2,550.000	2,550.000
0020	460.6424	HMA Pavement 4 MT 58-28 H	TON	3,984.000	3,984.000
0022	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	13.000	13.000
0024	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5170-05-60	EACH	1.000	1.000
0026	619.1000	Mobilization	EACH	1.000	1.000
0028	624.0100	Water	MGAL	22.900	22.900
0030	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0032	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0034	642.5001	Field Office Type B	EACH	1.000	1.000
0036	643.0300	Traffic Control Drums	DAY	300.000	300.000
0038	643.0900	Traffic Control Signs	DAY	92.000	92.000
0040	643.5000	Traffic Control	EACH	1.000	1.000
0042	646.1020	Marking Line Epoxy 4-Inch	LF	9,514.000	9,514.000
0044	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	22,894.000	22,894.000
0046	648.0100	Locating No-Passing Zones	MI	2.000	2.000
0048	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	7,815.000	7,815.000
0050	650.8000	Construction Staking Resurfacing Reference	LF	10,773.000	10,773.000
0052	650.9910	Construction Staking Supplemental Control (project) 01. 5170-05-60	LS	1.000	1.000
0054	690.0150	Sawing Asphalt	LF	149.000	149.000
0056	740.0440	Incentive IRI Ride	DOL	8,160.000	8,160.000

REMOVING ASPHALTIC SURFACE

REMOVING ASPHALTIC DRIVEWAYS

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY		CATEGORY	STATION	LOCATION	204.0110 REMOVING ASPHALTIG SURFACE SY
0010	16+01	-	23+66	MAINLINE	-	2,563		0010	19+66	RT	51
0010	27+75	-	74+64	MAINLINE & PARKING SHLD		15,480		0010	123+18	LT	59
0010	74+64		75+14	MAINLINE	156						
0010	79+15		79+65	MAINLINE	158					TOTAL 0010	110
0010	79+65	-	116+36	MAINLINE & PARKING SHLD		12,110	<u></u>			TOTAL 0010	110
0010	116+36		116+86	MAINLINE	156						
0010	120+87	-	135+33	MAINLINE		4,555					
0010	135+33		135+83	MAINLINE	155						
				TOTAL 0010	625	34,708	_				

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

PREPAR FOUNDATI FOR ASPHA						
FOUNDATE						211.0400
CATEGORY STATION TO STATION LOCATION STA 0010 16+84 - 17+46 RT 1 0010 16+84 - 17+46 LT 1						PREPARE
CATEGORY STATION TO STATION LOCATION SHOULDE 0010 16+84 - 17+46 RT 1 0010 16+84 - 17+46 LT 1						FOUNDATION
CATEGORY STATION TO STATION LOCATION STA 0010 16+84 - 17+46 RT 1 0010 16+84 - 17+46 LT 1						FOR ASPHALTIC
0010 16+84 - 17+46 RT 1 0010 16+84 - 17+46 LT 1						SHOULDERS
0010 16+84 - 17+46 LT 1	CATEGORY	STATION	TO	STATION	LOCATION	STA
0010 16+84 - 17+46 LT 1						
	0010	16+84	-	17+46	RT	1
0010 22+64 - 23+10 RT 1	0010	16+84	-	17+46	LT	1
	0010	22+64	-	23+10	RT	1
TOTAL 0010 3					TOTAL 0010	3

BASE AGGREGATE DENSE

					305.0110	624.0100	
					BASE		
					AGGREGATE		
					DENSE 3/4-INCH	WATER	
CATEGORY	STATION	TO	STATION	LOCATION	TON	MGAL	REMARKS
0010	16+01	-	17+47	LT	14	0.2	BEHIND BEAMGUARD SHOULDER
0010	16+04	-	17+45	RT	13	0.2	BEHIND BEAMGUARD SHOULDER
0010	17+45	-	22+62	LT & RT	65	1.0	SHOULDER
0010	22+62	-	23+66	LT	10	0.2	BEHIND BEAMGUARD SHOULDER
0010	22+62	-	23+66	RT	10	0.2	BEHIND BEAMGUARD SHOULDER
0010	27+75		28+77	RT	10	0.2	BEHIND BEAMGUARD SHOULDER
0010	27+75		28+79	LT	10	0.2	BEHIND BEAMGUARD SHOULDER
0010	28+77	-	31+75	LT & RT	38	0.6	SHOULDER
0010	31+75	-	38+63	LT & RT	59	0.9	PARKING SHOULDER
0010	38+63	-	75+14	LT & RT	455	6.8	SHOULDER
0010	79+14	-	79+94	LT & RT	10	0.2	SHOULDER
0010	79+94	-	86+29	LT & RT	55	0.8	PARKING SHOULDER
0010	86+29	-	116+86	LT & RT	383	5.7	SHOULDER
0010	120+87	-	122+73	LT	24	0.4	BEHIND BEAMGUARD SHOULDER
0010	120+83	-	123+62	RT	18	0.3	SHOULDER
0010	123+62	-	135+82	LT & RT	153	2.3	SHOULDER
0010	UNDI	STRIE	BUTED		200	3.0	
							•
				TOTAL 0010	1,527	22.9	

HMA PAVEMENT

						455.0605	460.6424
							HMA PAVEMENT
					DEPTH	TACK COAT	4 MT 58-28 H
CATEGORY	STATION	TO	STATION	LOCATION	IN	GAL	TON
0010	16+01	-	23+66	MAINLINE	2	180	290
0010	27+75	-	75+14	MAINLINE	2	1,085	1,751
0010	79+14	-	116+86	MAINLINE	2	871	1,406
0010	120+87	-	135+82	MAINLINE	2	333	537
				TOTAL 0010		2,469	3,984

DRIVEWAY ITEMS

465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES CATEGORY STATION LOCATION 0010 19+66 RT 6 0010 123+17 LT TOTAL 0010

SHEET: PROJECT NO: 5170-05-60 HWY: STH 82 COUNTY: CRAWFORD MISCELLANEOUS QUANTITIES

PLOT SCALE: 1:1 FILE NAME: N:\PDS\...\030200_mq.pptx PLOT DATE: MAY 26, 2021 PLOT BY: MSA PLOT NAME :

TRAFFIC CONTROL ITEMS

							643.0300		643.0900	
						TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL WARNING SIGNS	TRAFFIC CONTROL SIGNS	
CATEGORY	STATION	TO	STATION	LOCATION	DAYS	EACH	DAY	EACH	DAY	SIGN NUMBERS
0010	16+01	-	137+15	RT	12			4	48	WO8-52, WO8-1, W016-7L
0010	16+01	-	137+15	LT	11			4	44	W08-52, W08-1, W016-7L
UNDISTRIBUTED				15	20	300				
			TOTAL 0010			300		92		

NOTE: SEE SDD TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC SEE SDD TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

LOCATION NO PASSING ZONES

SAWING ITEMS

					690.0150
					SAWING
					ASPHALT
CATEGORY	STATION	TO	STATION	LOCATION	LF
0010	19+36	-	19+96	RT	60
0010	122+73	-	123+62	LT	89
				TOTAL 0010	149

PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4- INCH LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH LF	REMARKS
0010	16+01	-	137+20	LT		11,447		WHITE; EDGELINE
0010	16+01	-	137+20	RT		11,447		WHITE; EDGELINE
0010	16+01	-	23+67	CENTERLINE	1,530		1,530	NO PASSING
0010	27+75	-	36+37	CENTERLINE	1,078		931	EB PASSING
0010	36+37	-	43+35	CENTERLINE	168		54	PASSING BOTH DIRECTIONS
0010	43+35	-	54+42	CENTERLINE	1,384		1,196	WB PASSING
0010	54+42	-	65+42	CENTERLINE	1,375		1,188	EB PASSING
0010	65+42	-	67+97	CENTERLINE	64		21	PASSING BOTH DIRECTIONS
0010	67+97	-	74+28	CENTERLINE	789		682	WB PASSING
0010	74+28	-	75+14	CENTERLINE	22		7	PASSING BOTH DIRECTIONS
0010	79+14	-	79+44	CENTERLINE	8			PASSING BOTH DIRECTIONS
0010	79+44	-	81+84	CENTERLINE	300		260	EB PASSING
0010	81+84	-	108+64	CENTERLINE	670		215	PASSING BOTH DIRECTIONS
0010	108+64	-	116+87	CENTERLINE	1,029		889	WB PASSING
0010	120+87	-	128+09	CENTERLINE	903		780	EB PASSING
0010	128+09	-	135+83	CENTERLINE	194		62	PASSING BOTH DIRECTIONS
				TOTAL 0010	9,514	22,894	7,815	

NOTE: SEE SDD LONGITUDINAL MARKING (MAINLINE)

SEE SDD MOVING PAVEMENT MARKING OPERATIONS

CONSTRUCTION STAKING

					650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 5170-05-60)
CATEGORY	STATION	ТО	STATION		LF	LS
0010	PI	PROJECT				1
0010	16+01	-	23+66		765	
0010	27+75	-	75+14		4,739	
0010	79+14	-	116+87		3,773	
0010	120+87	-	135+83		1,496	
				TOTAL 0010	10,773	1

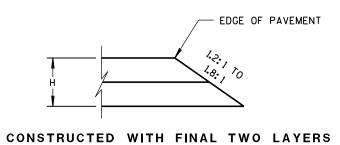
PROJECT NO: 5170-05-60 HWY: STH 82 COUNTY: CRAWFORD MISCELLANEOUS QUANTITIES SHEET:

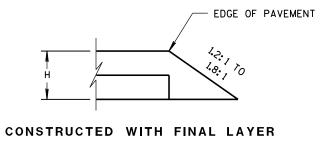
^{*} TO BE PLACED FOLLOWING REMOVING ASPHALTIC SURFACE MILLING

^{**} TO BE PLACED FOLLOWING HMA PAVEMENT

Standard Detail Drawing List

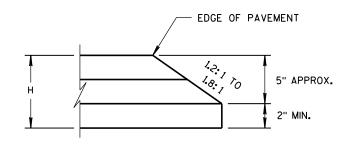
14B29-01	SAFETY EDGE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

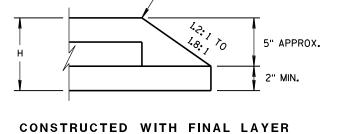




FOR H 5" OR LESS

FOR H 5" OR LESS





EDGE OF PAVEMENT

FOR H GREATER THAN 5"

FOR H GREATER THAN 5"

ASPHALT
SAFETY EDGE —

FINISHED SHOULDER AGGREGATE PLACEMENT

- EDGE OF PAVEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

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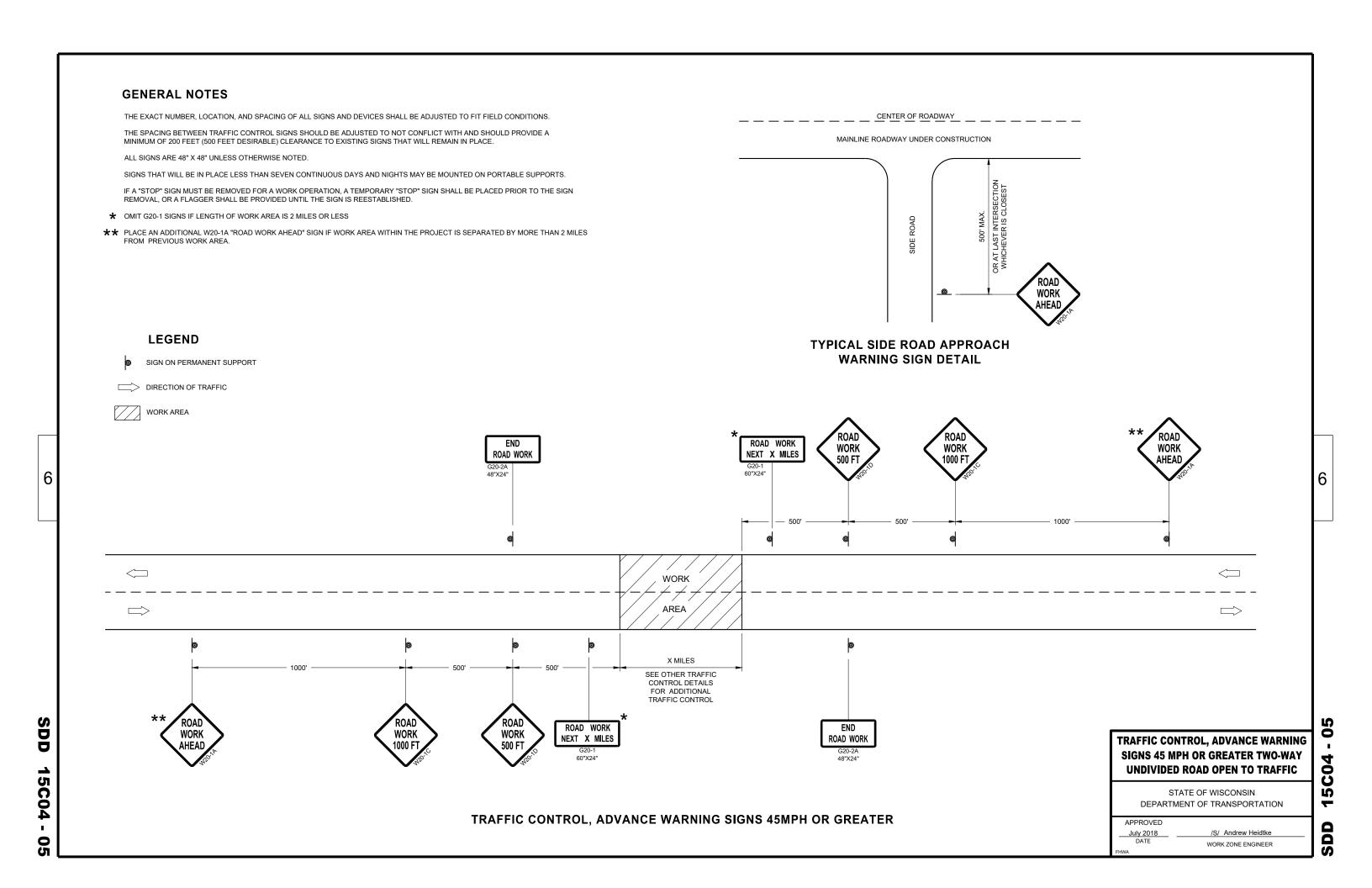
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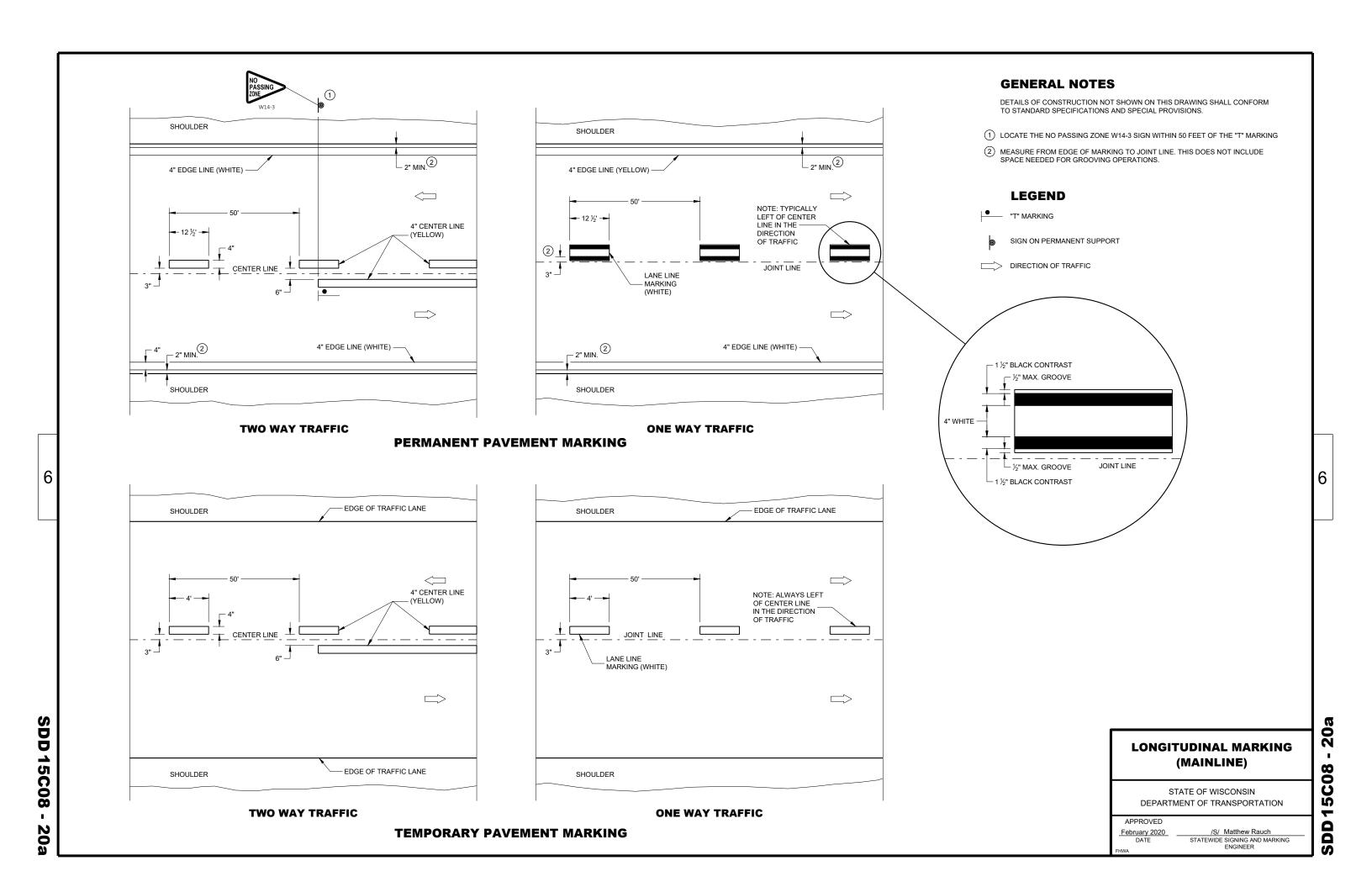
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APPROVED

BASE AGGREGATE DENSE

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER





GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

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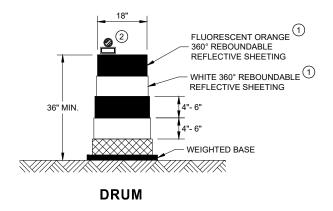
 APPROVED
 /S/ Andrew Heidtke

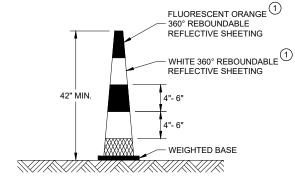
 May 2021
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER

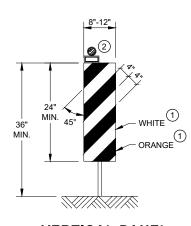
GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

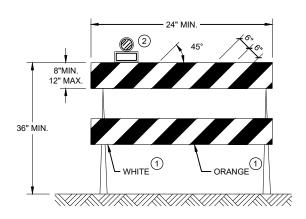




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

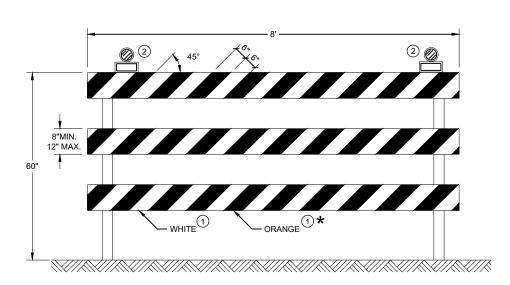


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
EHW/A	

RUMBLE

STRIPS

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

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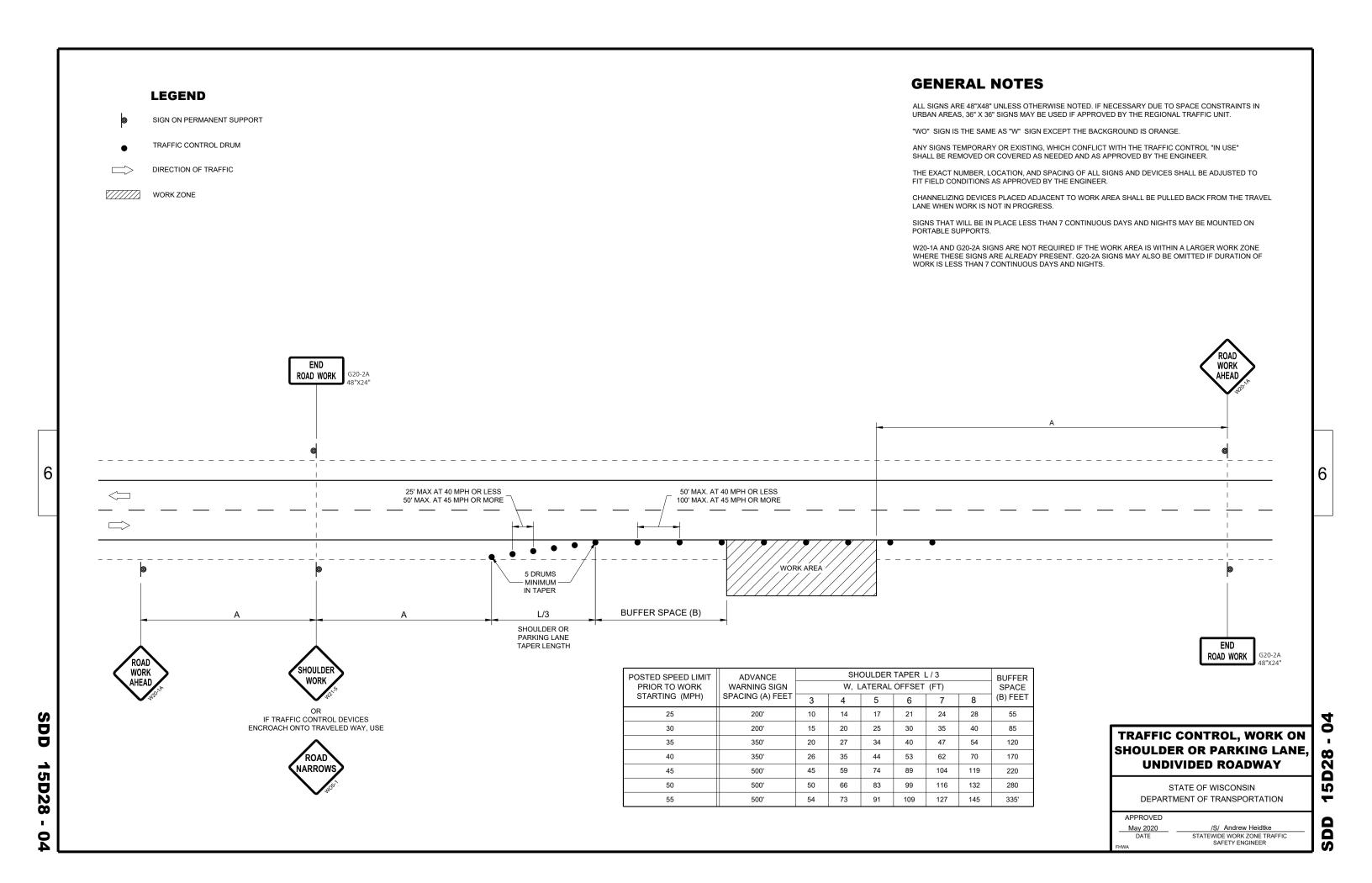
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

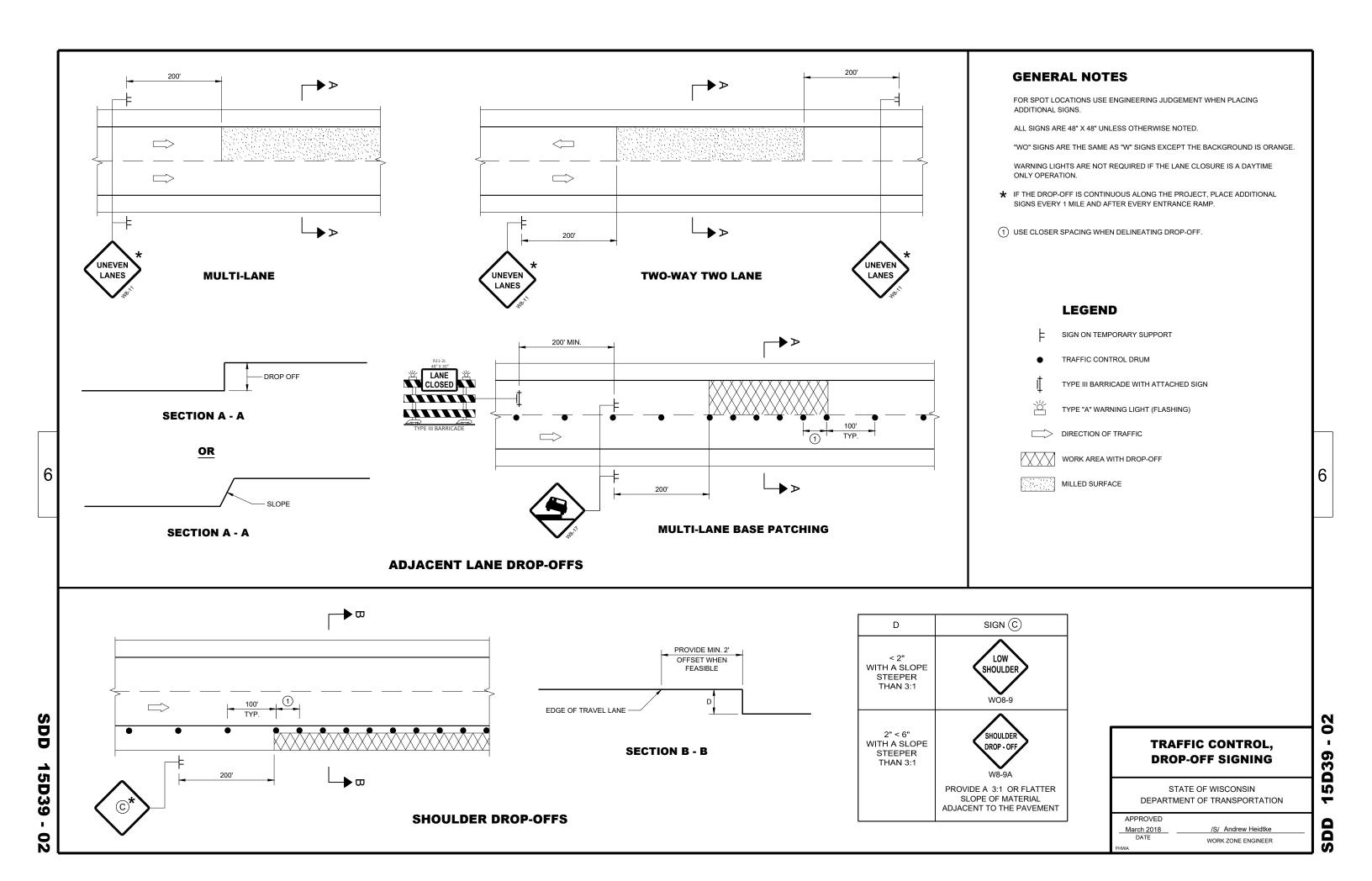
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DATE	WORK ZONE ENGINEER
FHWA	

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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WORK ZONE ENGINEER





DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED. ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN

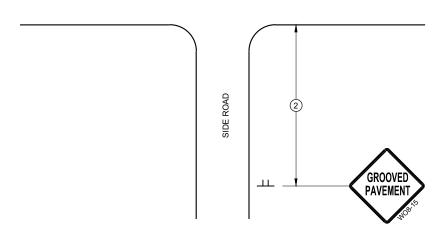
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

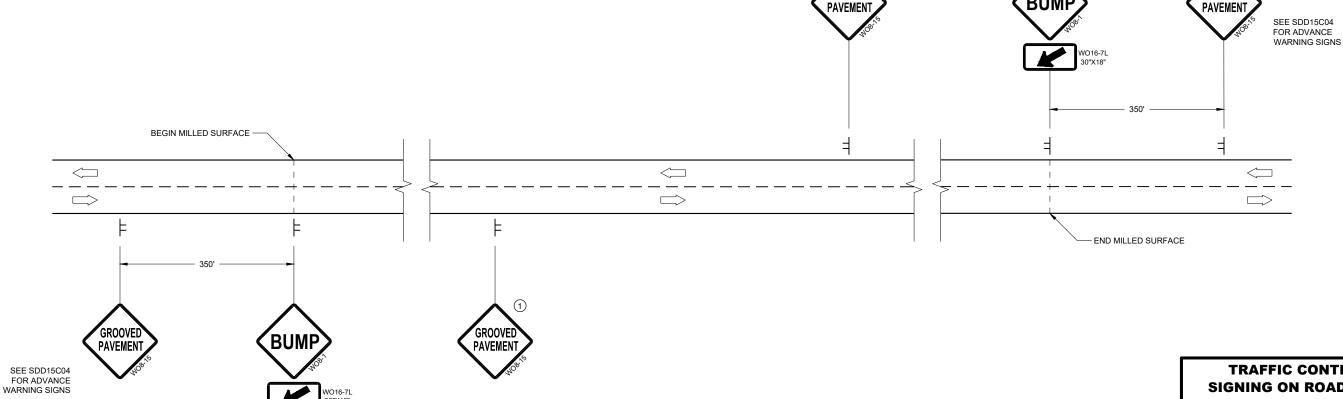
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ò D

APPROVED February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)	
0 - 25	550'	
30	550'	
35	700'	
40	700'	
45	900'	
50	000'	

1200'

55

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

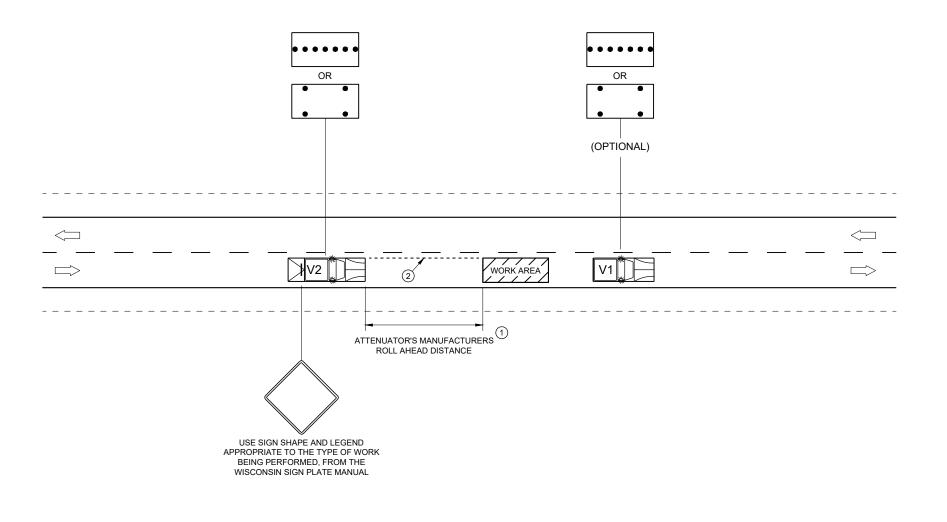
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION

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

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE

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

- DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- 2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, **MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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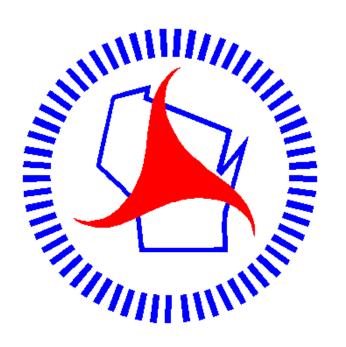
February 2021 DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

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Notes



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