MARSH AREA

WOODED OR SHRUB AREA

FEDERAL PROJECT MAY 2022 STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS PROJECT 5880-00-67 WISC 2022403 Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Plan and Profile Section No. Standard Detail Drawings **MAUSTON - WISCONSIN DELLS** Section No. MEADOW LANE TO 0.07 MI E OF CTH J **USH 12** TOTAL SHEETS = 78 **JUNEAU COUNTY** STATE PROJECT NUMBER 5880-00-67 R-5-F R-6-E T-15-N HHDESIGN DESIGNATION 5880-00-37 AADT 2026 = 3 700 Lyndon Station A.A.D.T. 2042 = 4,000 = 11.4% D.H.V. D.D. = 60/40 **BEGIN PROJECT** = 12.4 % STA 202+75 DESIGN SPEED = 60 MPH = 960,000 X: 510409.2105 **END PROJECT** Y: 124632.0127 HH STA 499+81 CONVENTIONAL SYMBOLS T-14-N PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE ADAMS CO LOTTINE (To be noted as such) НН LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION SLOPE INTERCEPT CULVERT (Profile View) PREPARED BY UTILITIES REFERENCE LINE Surveyor Wisconsin Dells ELECTRIC Designer EXISTING CULVERT FIBER OPTIC Project Manage PROPOSED CULVERT (Box or Pipe) SANITARY SEWER R-6-E HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COMBUSTIBLE FLUIDS LAYOUT STORM SEWER COORDINATE REFERENCE SYSTEM (WISOCRS), JUNEAU COUNTY NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES,

SCALE I

TOTAL NET LENGTH OF CENTERLINE = 5.626 MI

GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH

AMERICAN VERTICAL DATUM OF 1988, NAVD88 (2012.) GPS DERIVED

ELEVATIONS ARE BASED ON GEOID 18.

CONTRACT

1

REINY YANHKE P.E

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PPROVED FOR THE DEPARTMENT

ATF: 03/07/2022

FILE NAME: N:\PDS\C3D\58800037\SHEETSPLAN\010101-TI.DWG KLUDY, KATHLEEN M 3/2/2022 11:00 AM

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TELEPHONE

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

2

FILE NAME :

STANDARD ABBREVIATIONS

AC	ACRE	LC.	LONG CHORD
AGG	AGGREGATE	LS	LUMPSUM
<	ANGLE	M.P.	MARKER POST
AE, AEW	A PRON ENDWALL	MGAL	1000 GALLONS
ASPH.	ASPHALTIC	N.C.	NORMAL CROWN
A.D.T.	AVERAGE DAILY TRAFFIC	N.O.	NORTH
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC	NB	NORTHBOUND
B.F.	BACK FACE	NOR	NORMA L
BM	BENCHMARK	NO.	NUMBER
BTWN	BETWEEN	PAV'T	PAVEMENT
CTR.	CENTER	P.L.E.	PERMANENT LIMITED EASEMENT
C/L	CENTER LINE	P.C.	POINT OF CURVATURE
Δ	CENTRAL ANGLE OR DELTA	P.I.	POINT OF INTERSECTION
C.E.	COMMERCIAL ENTRANCE	P.T.	POINT OF TANGENCY
CONST.	CONSTRUCTION	PCC	PORTLAND CEMENT CONCRETE
CMCP	CORRUGATED METAL CULVERT PIPE	P.E.	PRIVATE ENTRANCE
CMP	CORRUGATED METAL PIPE	PGL	PROFILE GRA DE LINE
CO.	COUNTY	P.L.	PROPERTY LINE
CTH	COUNTY TRUNK HIGHWAY	R	RADIUS OR RANGE
CR.	CREEK	R/L	REFERENCE LINE
CABC	CRUSHED A GGREGATE BASE COURSE	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
CY	CUBIC YARD	REQ'D	REQUIRED
CP	CONTROL POINT OR CULVERT PIPE	RT	RIGHT
C&G	CURB AND GUTTER	R.H.F.	RIGHT HAND FORWARD
D	DEGREE OF CURVE	R/W	RIGHT OF WAY
D.H.V.	DESIGN HOURLY VOLUME	RD.	ROAD
DIA.	DIAMETER	SHLD.	SHOULDER(S)
D.D.	DIRECTIONAL DISTRIBUTION	SHR.	SHRINKAGE
DISCH.	DISCHARGE	S	SOUTH
DMS	DYNAMIC MESSAGE SIGN	SB	SOUTHBOUND
EA	EACH	S.F.	SQUARE FOOT (FEET)
	EAST	S.F. SDD	STANDARD DETAIL DRAWING(S)
E			
EB	EASTBOUND	STH	STATE TRUNK HIGHWAY
ELEC.	ELECTRIC(AL), ELEC. CABLE	STA.	STATION
EL., ELEV.		S.E.	SUPERELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	S/L	SURVEY LINE
EXC.	EXCAVATION	SYM	SYMMETRICAL
EXIST	EXISTING	T.	PERCENT TRUCKS
F.F.	FACE TO FACE	TEL.	TELEPHONE
FERT.	FERTILIZER	TEMP.	TEMPORARY
F.E.	FIELD ENTRANCE	T.L.E.	TEMPORARY LIMITED EASEMENT
F/L, F.L.	FLOW LINE	T.O.C.	TOP OF CURB
GALV.	GALVANIZE	TYP	TYPICAL
H.S.	HIGH STRENGTH	UNCL.	UNCLASSIFIED
CWT	HUNDRED WEIGHT	U.G.	UNDERGROUND (CABLE)
INL	INLET	VAR	VARIABLE
INTER.	INTERSECTION	V.C.	VERTICAL CURVE
IH	INTERSTATE HIGHWAY	V.P.C.	VERTICAL POINT OF CURVATURE
JT.	JOINT	V.P.I.	VERTICAL POINT OF INTERSECTION
LT	LEFT	V.P.T.	VERTICAL POINT OF TANGENCY
L.H.F.	LEFT HAND FORWARD	Wt.	WEIGHT
L.	LENGTH OF CURVE	W	WEST
L.F.	LINEAR FOOT(FEET)	WB	WESTBOUND

GENERAL NOTES

- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- . APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED PAVEMENT SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA
- HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- 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.
- CONTRACTOR TO PROTECT GEODETIC SURVEY CONTROL STATIONS AND KEEP CONSTRUCTION EQUIPMENT AT LEAST 10 FEET AWAY FROM GEODETIC SURVEY CONTROL STATIONS.
- ENSURE THAT GEODETIC SURVEY CONTROL STATIONS ARE NOT DISTURBED, BUMPED OR MOVED DURING THE DURATION OF THE PROJECT.
 NOTIFY JACOB ROCKWEILER IMMEDIATELY IF GEODETIC SURVEY CONTROL STATIONS ARE DISTURBED, BUMPED OR MOVED DURING CONSTRUCTION OPERATIONS.

JACOB ROCKWEILER, P.E., WISCONSIN HEIGHT MODERNIZATION PROGRAM MANAGER WITH WISONSIN DEPARTMENT OF TRANSPORTATION WHOSE PHONE NUMBER IS (608) 516-6362 AND EWAIL IS JACOB.ROCKWEILER@DOT.WI.GOV.

EXACT LOCATIONS FOR REMOVING DISTRESSED PAVEMENT MILLING SHALL BE DETERMINED BY ENGINEER IN THE FIELD.

PROJECT NO: 5880-00-67 HWY: USH 12 COUNTY: JUNEAU GENERAL NOTES SHEET **E**

N:\PDS\C3D\58800037\SHEETSPLAN\020101-GN.DWG
LAYOUT NAME - 020101-gn

PLOT DATE: 3/16/2022 8:03 AM
PLOT DATE: 3/16/2022 8:03 AM
PLOT BY: KLUDY, KATHLEEN M
PLOT NAME: 1 IN:100 FT
WISDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42

FILE NAME :

DNR LIAISON

KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
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KAREN.KALVELAGE@WISCONSIN.GOV

DESIGN CONTACTS

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PROJECT DESIGNER
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TRAVIS MIKSHOWSKY SOILS/MATERIALS ENGINEER WISDOT SW REGION - LA CROSSE 3550 MORMON COULEE RD LA CROSSE, WI 54601 (608) 792-1310 TRAVIS.MILSHOWSKY @DOT.WI.GOV



UTILITY CONTACTS

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TYLER DONOVAN

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P.O. Box 408

LYNDON STATION, WI 53944-0408

(608) 495-0740

publicw orks@lyndonstation-w i.com

BRY ON JOHNSON

FRONTIER COMMUNICATIONS OF WILLC - COMMUNICATION LINE

P.O. BOX 537 RIPON, WI 54971 (435) 623-6651 B.Johnson@mscon.com

MATT RIGGS

OAKDALE ELECTRIC COOPERATIVE - ELECTRICITY

P.O. BOX 40

OAKDALE, WI 54649-0128

(608) 372-8828

mriggs@oakdalerec.com

PROJECT NO: 5880-00-67 HWY: USH 12 COUNTY: JUNEAU GENERAL NOTES SHEET **E**

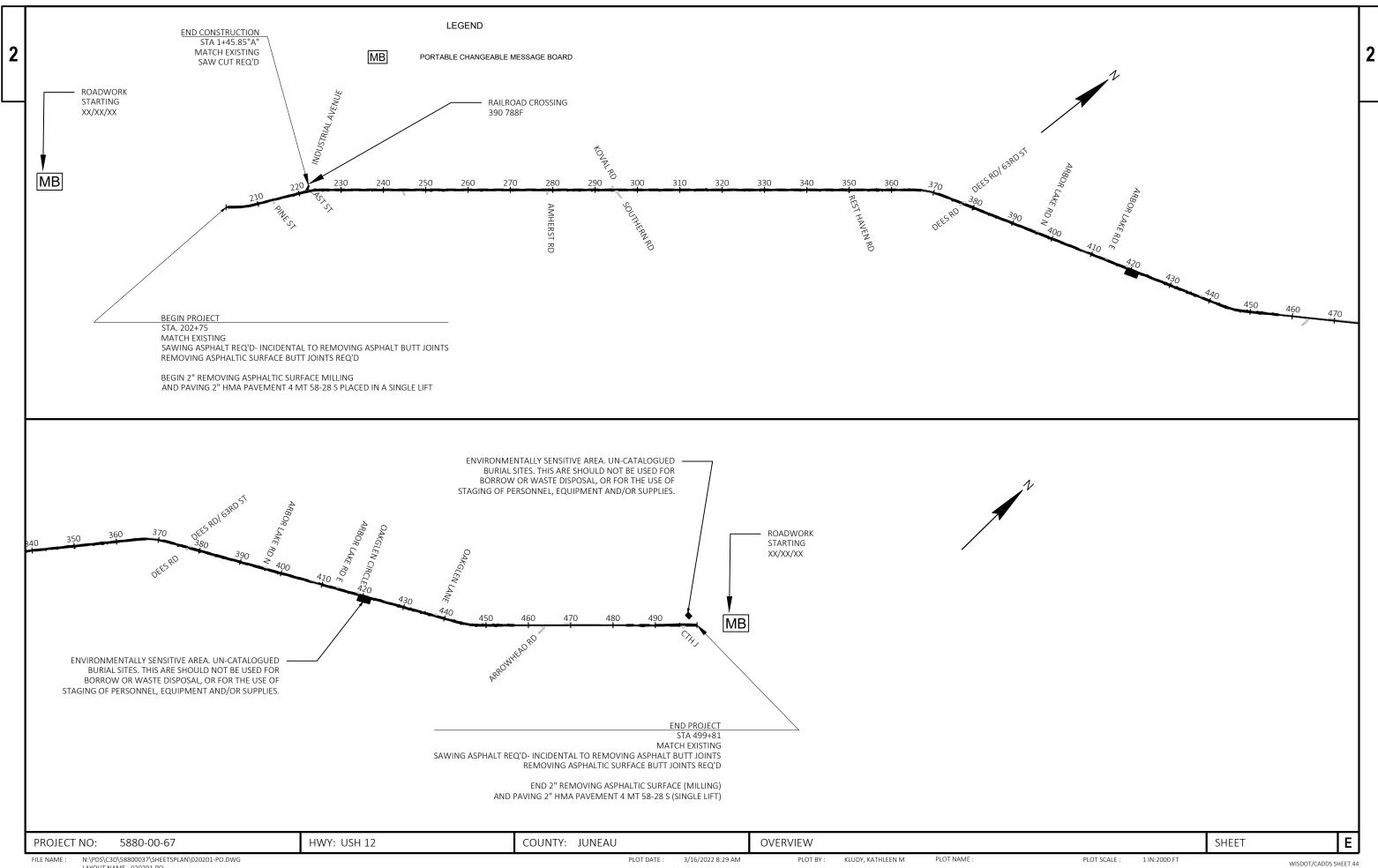
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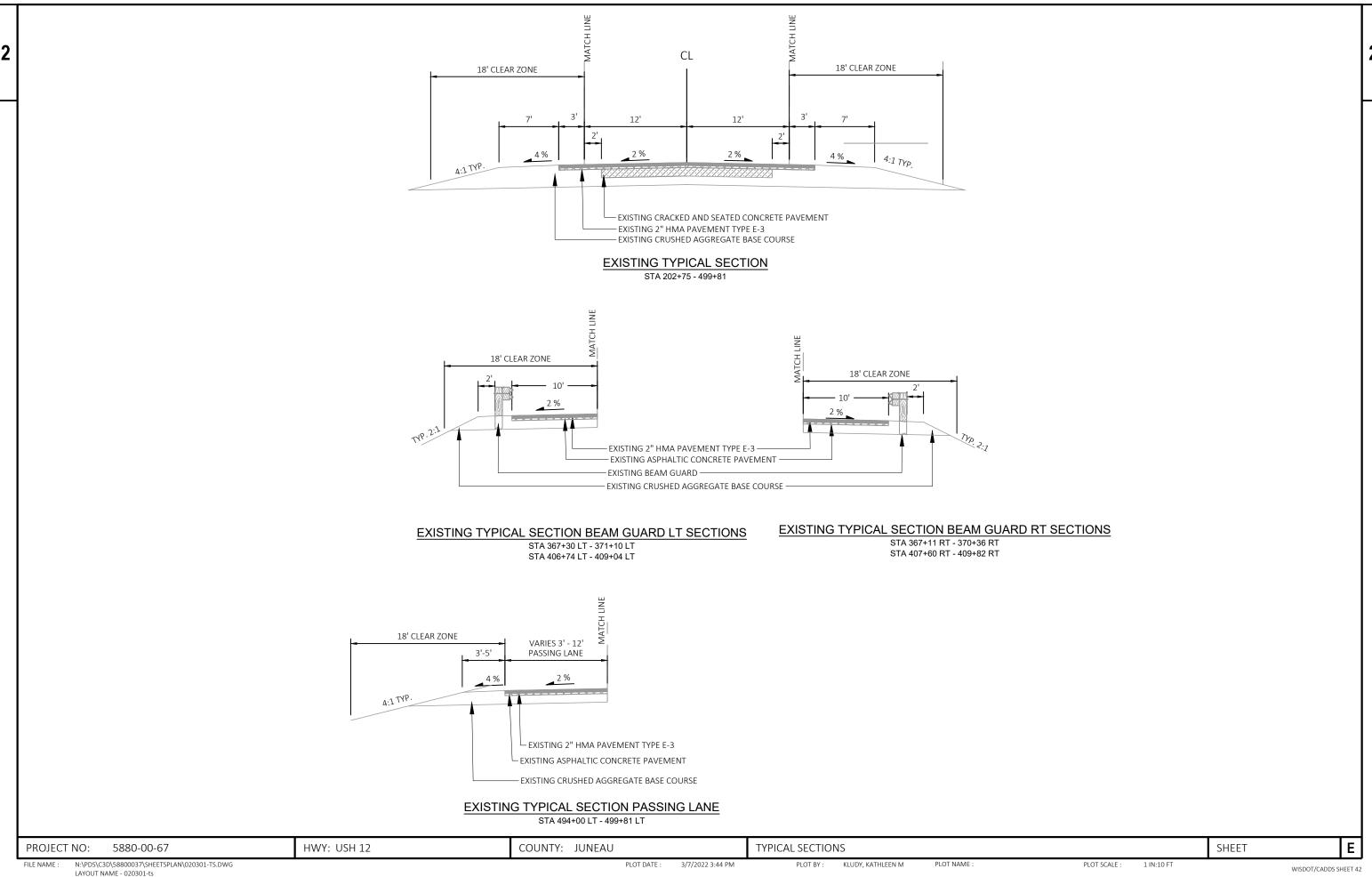
PLOT BY: KLUDY, KATHLEEN M

PLOT NAME: 9LOT NAME: 1 IN:100 FT

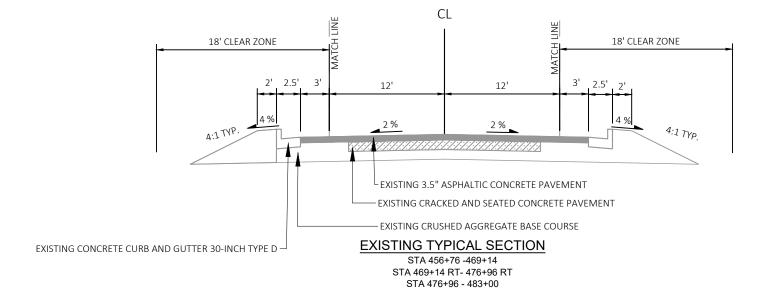
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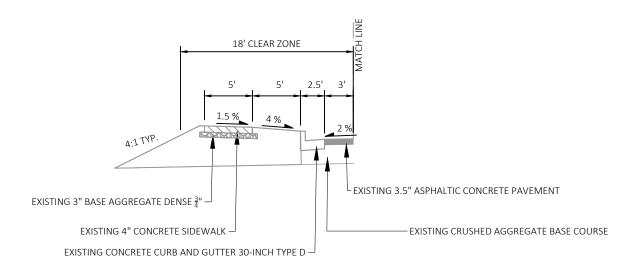


LAYOUT NAME - 020201-PO



2



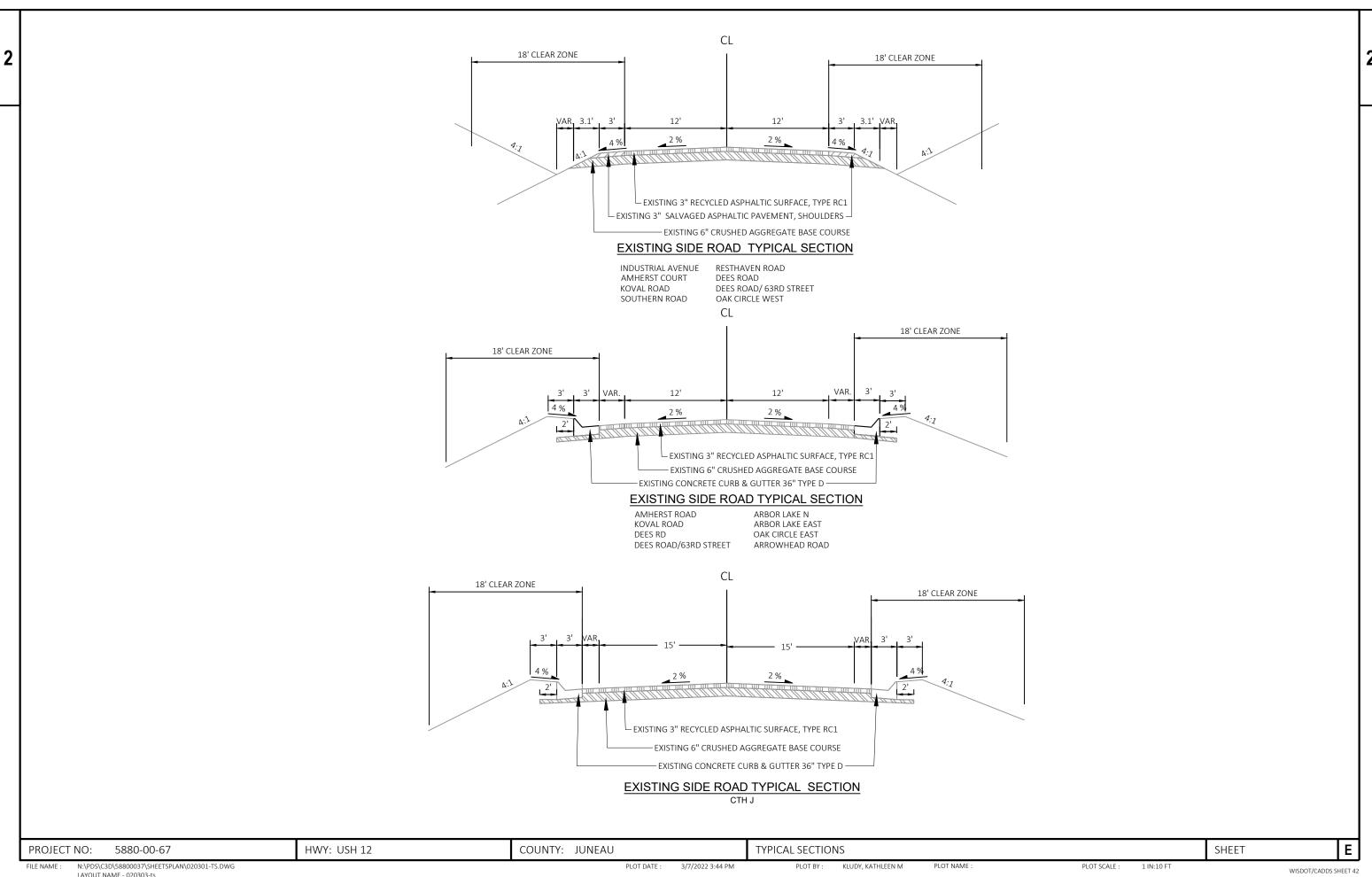


EXISTING SIDEWALK TYPICAL SECTION STA 469+14 LT -476+96 LT

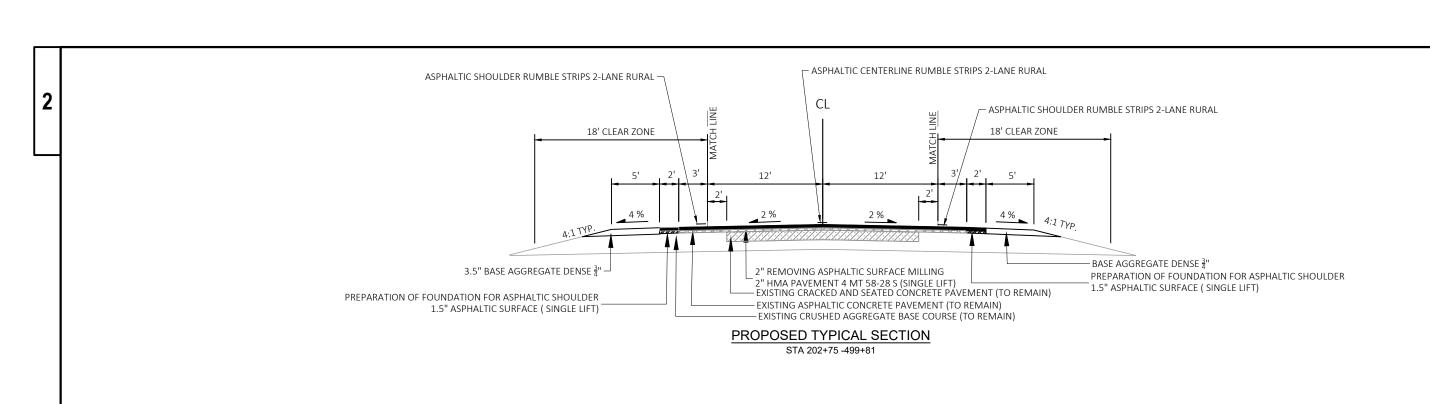
PROJECT NO: 5880-00-67 HWY: USH 12 COUNTY: JUNEAU TYPICAL SECTIONS SHEET **E**

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1 IN:10 FT



LAYOUT NAME - 020303-ts



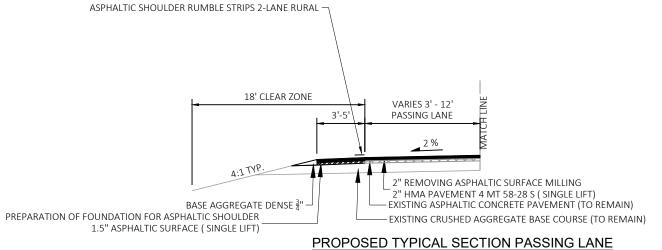


PROPOSED TYPICAL SECTION BEAM GUARD LT SECTIONS

PROPOSED TYPICAL SECTION BEAM GUARD RT SECTIONS STA 367+11 RT - 370+36 RT

STA 367+30 LT - 371+10 LT STA 406+74 LT - 409+04 LT

STA 407+60 RT - 409+82 RT



STA 494+00 LT- 499+81 LT

HWY: USH 12 PROJECT NO: 5880-00-67 COUNTY: JUNEAU PLOT DATE :

TYPICAL SECTIONS KLUDY, KATHLEEN M

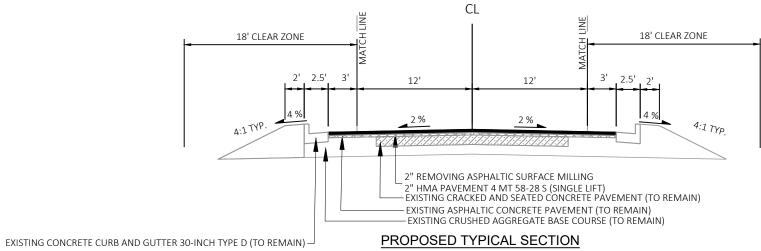
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PLOT SCALE :

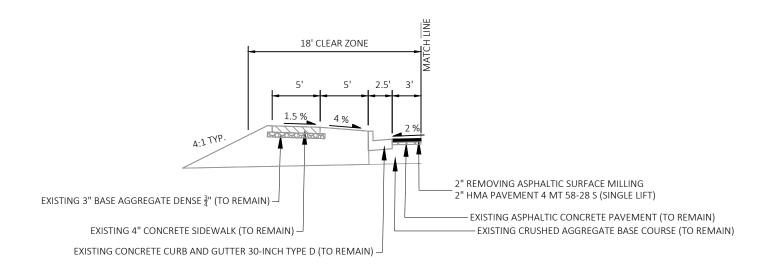
SHEET

1 IN:10 FT

Ε



STA 456+76 -469+14 STA 469+14 RT- 476+96 RT STA 476+96 - 483+00



PROPOSED SIDEWALK TYPICAL SECTION STA 469+14 LT -476+96 LT

Ε PROJECT NO: 5880-00-67 HWY: USH 12 COUNTY: JUNEAU TYPICAL SECTIONS SHEET

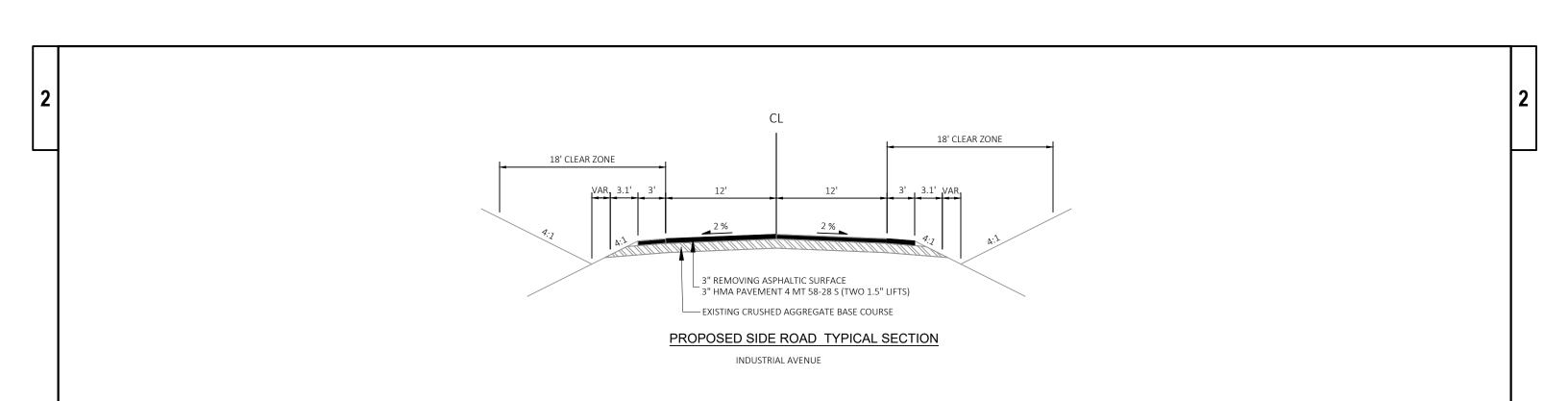
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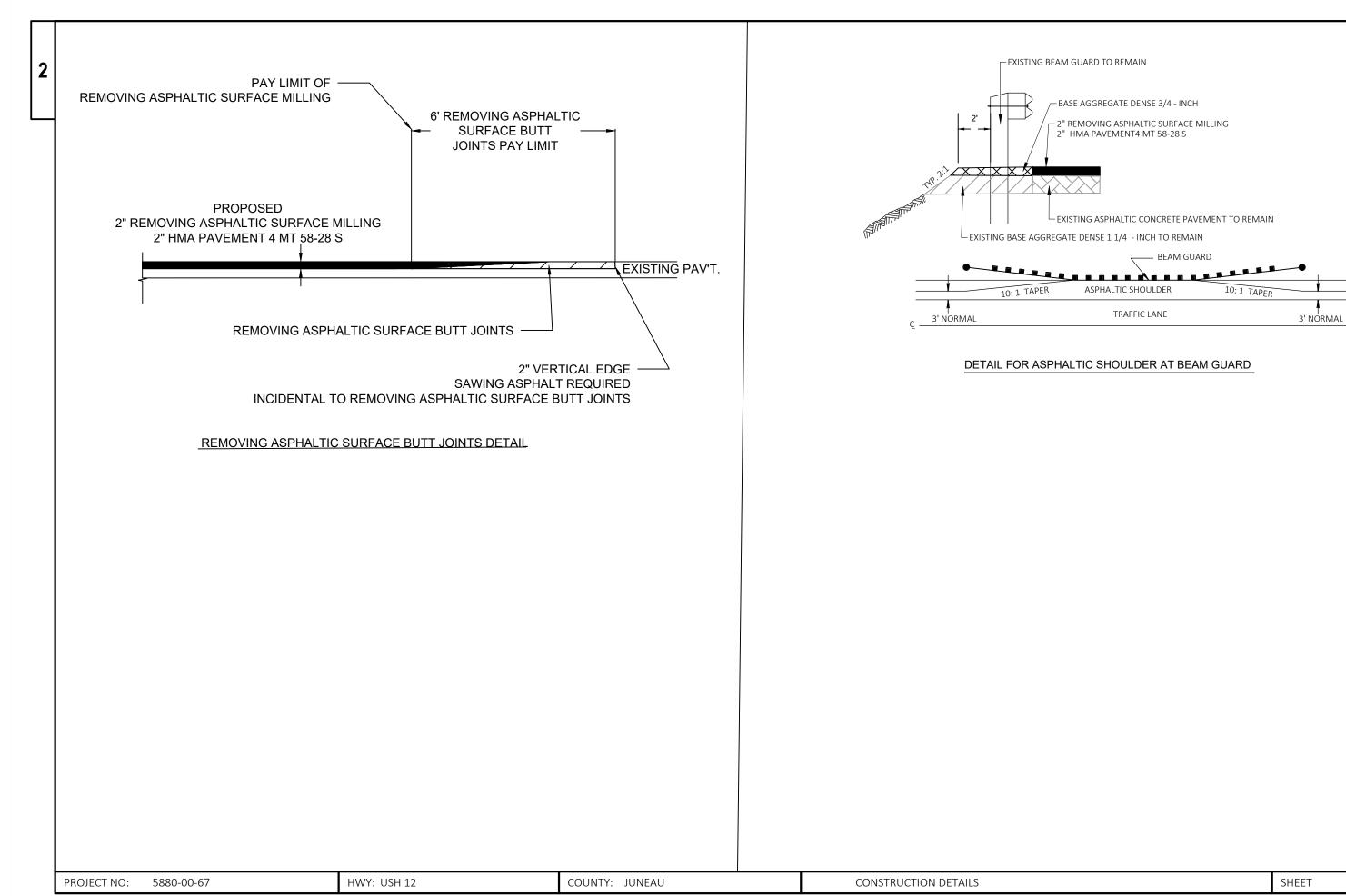
WISDOT/CADDS SHEET 42

PLOT SCALE :

1 IN:10 FT

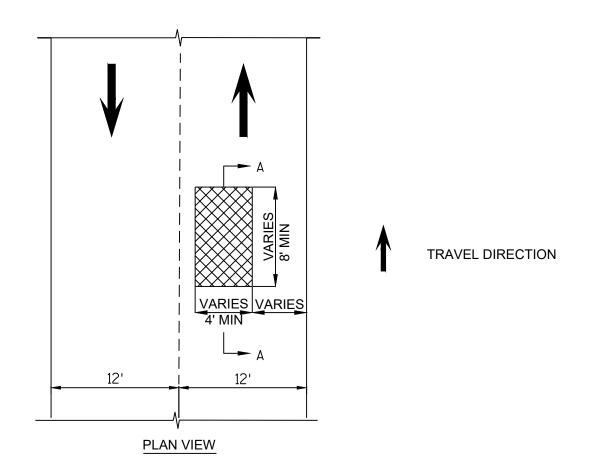


5880-00-67 HWY: USH 12 COUNTY: JUNEAU SHEET Ε PROJECT NO: TYPICAL SECTIONS N:\PDS\C3D\58800037\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 020306-ts FILE NAME : PLOT DATE: 3/7/2022 3:44 PM PLOT BY: KLUDY, KATHLEEN M PLOT NAME : PLOT SCALE: 1 IN:10 FT



N:\PDS\C3D\58800037\SHEETSPLAN\021001-CD REMOVING DISTRESSED PAVEMENT MILLING - C3D V16.DWG PLOT DATE : PLOT BY: KLUDY, KATHLEEN M PLOT SCALE : FILE NAME : 3/16/2022 8:27 AM 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 021001-cd

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- REMOVING ASPHALTIC SURFACE MILLING HMA PAVEMENT 4 MT 58-28 S OVERLAY DISTRESSED AREA PAVEMENT LIMITS - EXISTING ASPHALTIC SURFACE HMA PAVEMENT 4 MT 58-28 S OVERLAY APPLY TACK COAT — 2-INCHES REMOVING DISTRESSED PAVEMENT MILLING ASPHALTIC SURFACE EXISTING ASPHALTIC SURFACE AND/OR BASE COURSE — SECTION A-A

EXACT LOCATION AND LIMITS OF REMOVING DISTRESSED PAVEMENT MILLING TO BE DETERMINED BY THE ENGINEER IN THE FIELD

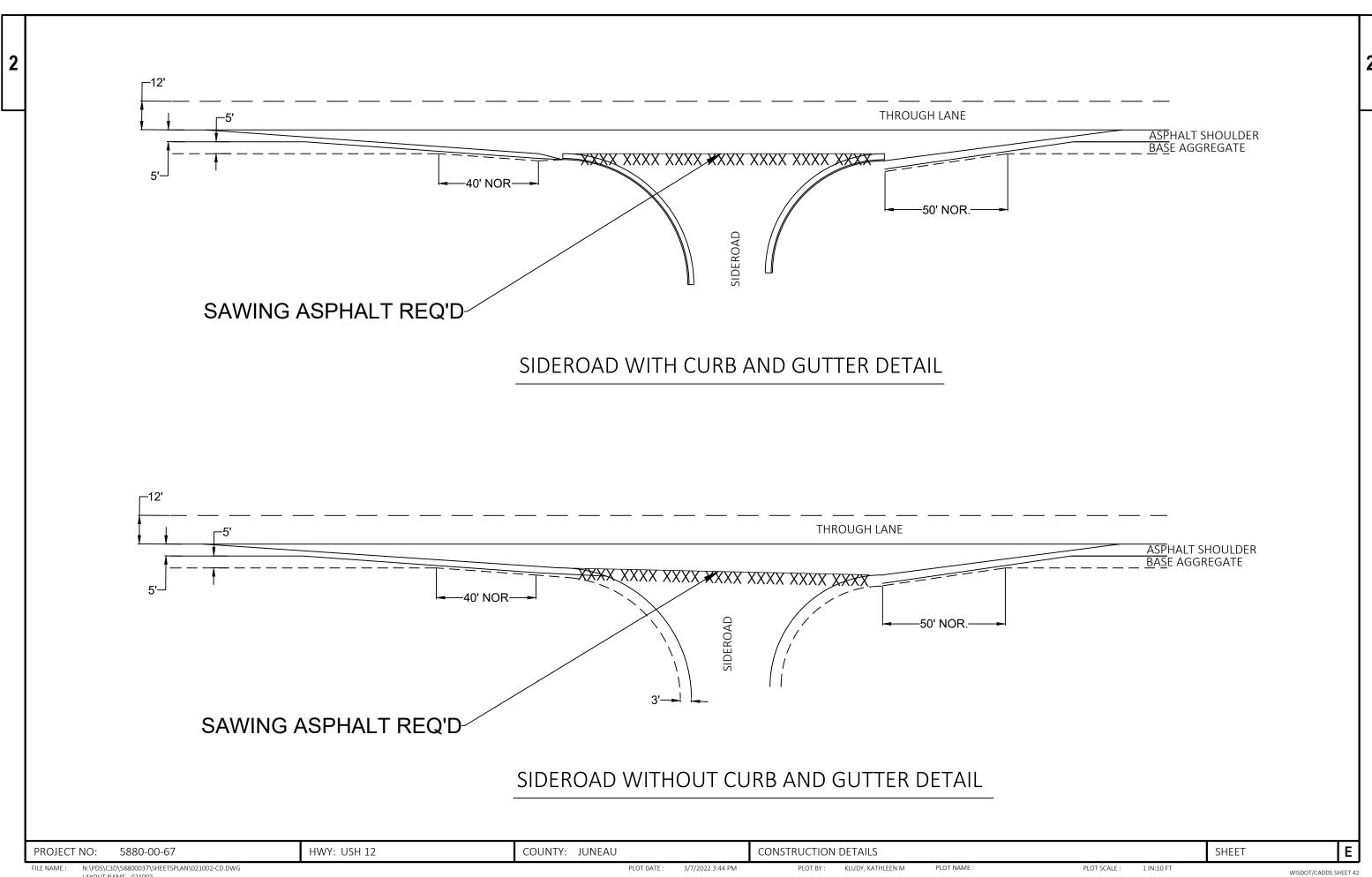
REMOVING DISTRESSED PAVEMENT MILLING

HWY: USH 12 COUNTY: JUNEAU CONSTRUCTION DETAILS SHEET Ε PROJECT NO: 5880-00-67 N:\PDS\C3D\58800037\SHEETSPLAN\021002-CD.DWG PLOT DATE : 3/7/2022 3:44 PM PLOT NAME : PLOT SCALE :

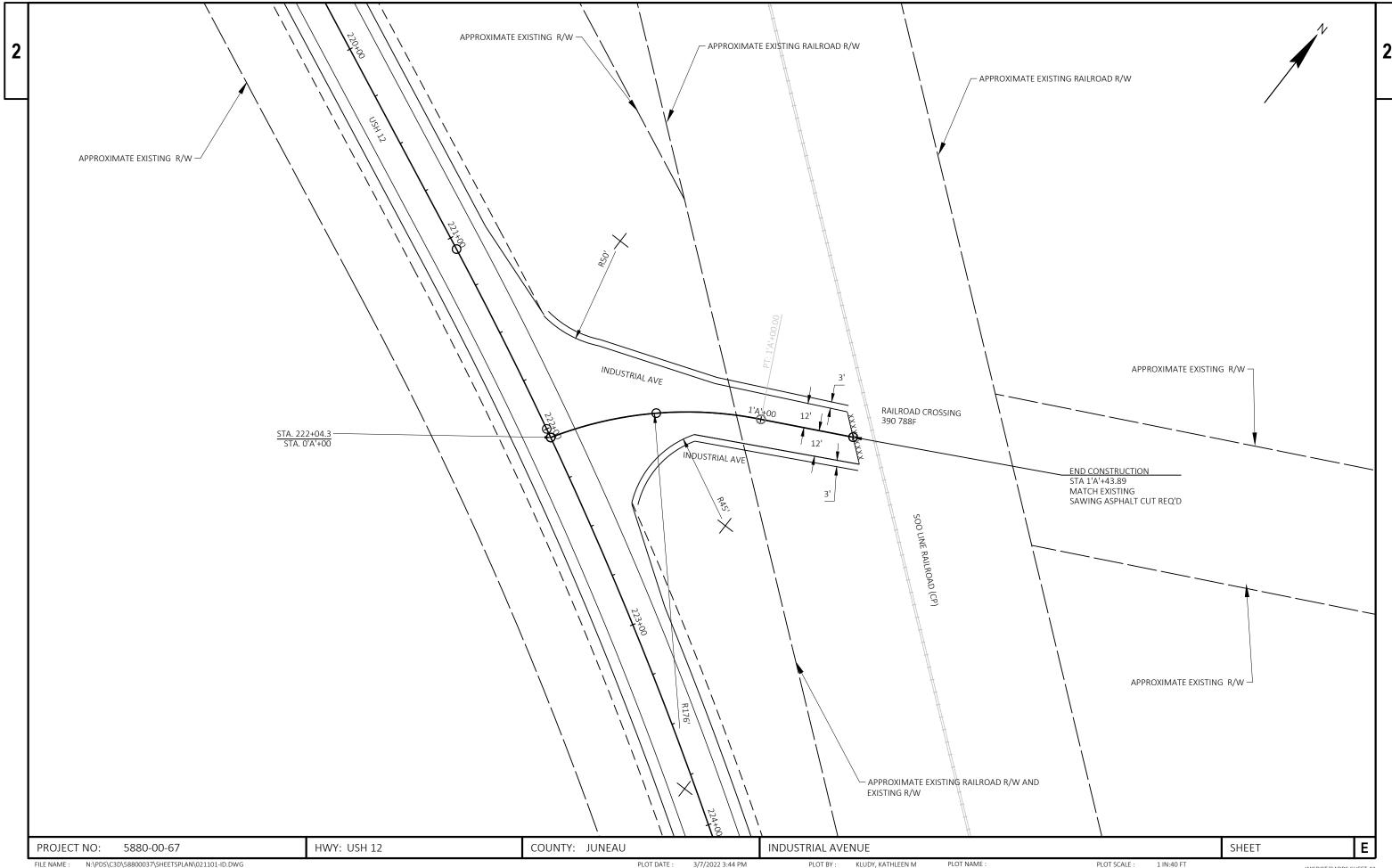
LAYOUT NAME - 021002

PLOT BY: KLUDY, KATHLEEN M

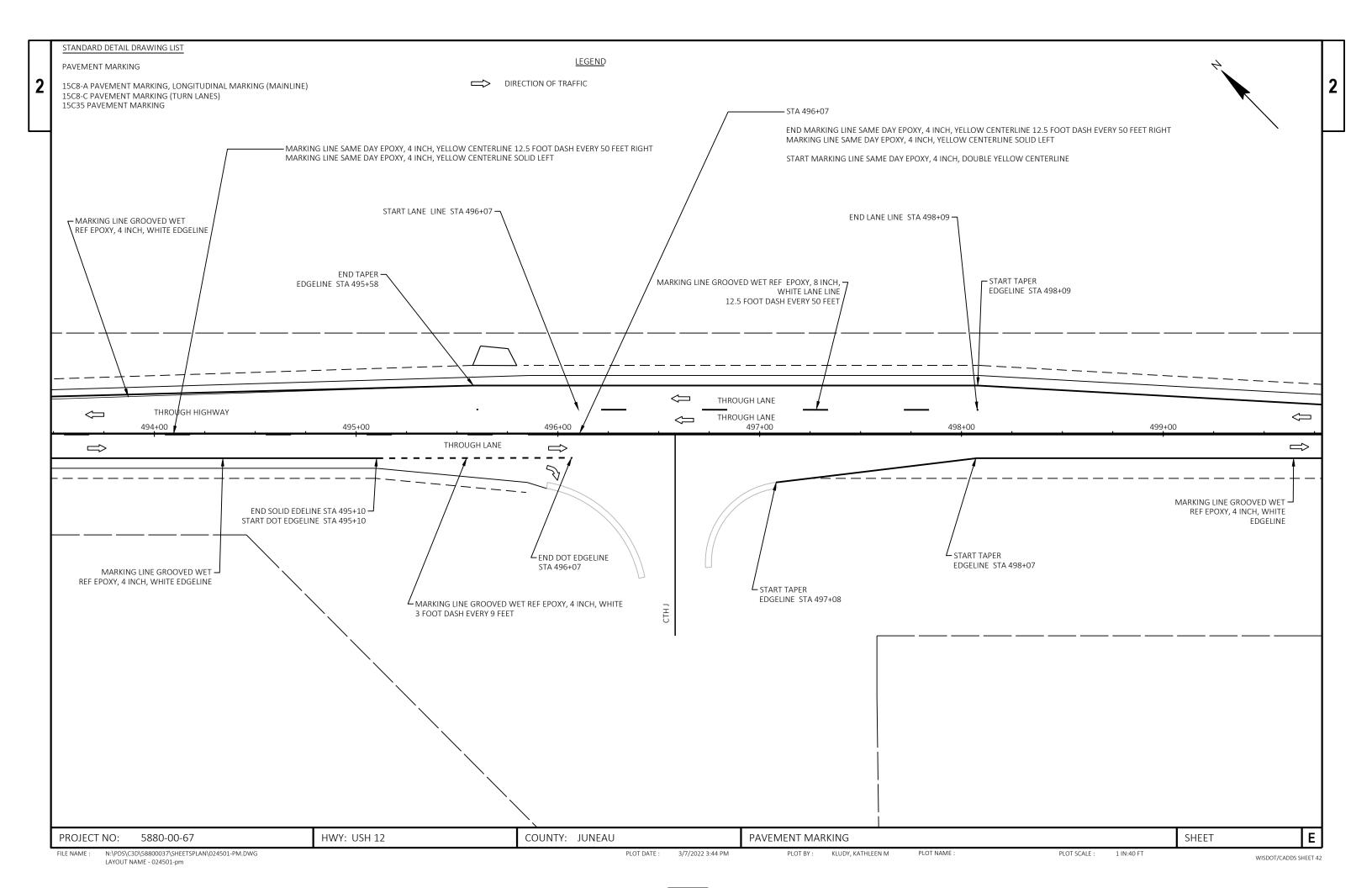
1 IN:10 FT



LAYOUT NAME - 021003



LAYOUT NAME - 021101-id



					5880-00-67	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0110	Removing Asphaltic Surface	SY	1,401.000	1,401.000	
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	40.000	40.000	
0006	204.0120	Removing Asphaltic Surface Milling	SY	103,571.000	103,571.000	
8000	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 5880-00-67	LS	1.000	1.000	
0010	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	241.000	241.000	
0012	213.0100	Finishing Roadway (project) 01. 5880-00-67	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	4,648.000	4,648.000	
0016	450.4000	HMA Cold Weather Paving	TON	6,600.000	6,600.000	
0018	455.0605	Tack Coat	GAL	7,950.000	7,950.000	
0020	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000	
0022	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000	
0024	460.2000	Incentive Density HMA Pavement	DOL	2,730.000	2,730.000	
0026	460.2005	Incentive Density PWL HMA Pavement	DOL	8,950.000	8,950.000	
0028	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	11,885.000	11,885.000	
0030	460.2010	Incentive Air Voids HMA Pavement	DOL	12,500.000	12,500.000	
0032	460.6224	HMA Pavement 4 MT 58-28 S	TON	13,209.000	13,209.000	
0034	465.0105	Asphaltic Surface	TON	2,232.000	2,232.000	
0036	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	103.000	103.000	
0038	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	36,403.000	36,403.000	
0040	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	21,353.000	21,353.000	
0042	614.0400	Adjusting Steel Plate Beam Guard	LF	1,171.000	1,171.000	
0044	614.0950	Replacing Guardrail Posts and Blocks	EACH	18.000	18.000	
0046	614.0951	Replacing Guardrail Rail and Hardware	LF	119.000	119.000	
0048	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5880-00-67	EACH	1.000	1.000	
0050	619.1000	Mobilization	EACH	1.000	1.000	
0052	624.0100	Water	MGAL	73.000	73.000	
0054	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	13.000	13.000	
0056	638.2102	Moving Signs Type II	EACH	13.000	13.000	
0058	638.3000	Removing Small Sign Supports	EACH	13.000	13.000	
0060	642.5001	Field Office Type B	EACH	1.000	1.000	
0062	643.0300	Traffic Control Drums	DAY	1,050.000	1,050.000	
0064	643.0900	Traffic Control Signs	DAY	625.000	625.000	
0066	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000	
0068	643.5000	Traffic Control	EACH	1.000	1.000	
0070	040 4040	MILL IN COLUMN PAGE ALL I	. –	57 000 000	== 000 000	

204.0115 Removing Asphaltic Surface Butt Joints SY 40.000 40.000 204.0120 Removing Asphaltic Surface Milling SY 103,571.000 103,571.000						3000-00-01	
0004 2.00 4.00 115 Removing Apparalite Surface Nath Joints SY 0.40 000 40 000 0006 2.00 110 Prepaire Foundation for Appatatic Surface National Paraling policy of 15.850 00 87 LS 1,000 1,000 1.000	Line	Item	Item Description	Unit	Total	Qty	
0004 2.00 4.00 115 Removing Apparalite Surface Nath Joints SY 0.40 000 40 000 0006 2.00 110 Prepaire Foundation for Appatatic Surface National Paraling policy of 15.850 00 87 LS 1,000 1,000 1.000	0002	204.0110	Removing Asphaltic Surface	SY	1,401.000	1,401.000	
2000 00 20 + 01 20 0 Removing Apphalic Surface Milling SY 103,671 000 100,000 20 1 1 0-00 0 Preguer Exemination for Apphalic Shoulders STA 24 1,000 24 1,000 20 1 1 0-00 0 Preguer Exemination for Apphalic Parking (project) 51.885 00.087 STA 24 1,000 24 1,000 20 1 1 0-00 0 Preguer Exemination for Apphalic Parking (project) 51.885 00.087 TAX 24 1,000 100 20 1 1 0-00 0 Hand Company of Parking (project) 51.885 00.087 TAX 100 100 20 1 1 0-00 0 HAND Company of Parking Apphalic Shoulders EACH 1 1,000 1,000 20 1 0 1 0 0 HAND Company Apphalic Shoulders Apphalic Shoulders of Parking (project) 51.885 00.08 TAX 20 1 1,000 1,000 20 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0004			SY	40.000		
211 0400	0006	204.0120		SY	103,571.000	103,571.000	
211 0400	8000		<u> </u>	LS			
21 21 21 21 21 21 21 21		211.0400					
350 450,000 May Coll Western Paving TON B. 6,800.00 B. 650.000 450,000 Tack Coult Development of Tack Coult	014	305.0110		TON	4,648.000		
03103 485,00505 Tack Coat GAL 7,950,000 7,950,000 0400,1050 HMA Percent Within Limits (PWL) Test Strip Density EACH 1,000 1,000 0400,1050 HMA Percent Within Limits (PWL) Test Strip Density EACH 1,000 1,000 0400,1050 480,2005 Incentive Density PWL HMA Pavement DOL 2,730,000 8,950,000 0400,1050 480,2005 Incentive Density PWL HMA Pavement DOL 1,885,000 0400,1050 480,2010 Incentive Density PWL HMA Pavement DOL 1,250,000 0400,1050 480,2010 Incentive Density PWL HMA Pavement DOL 1,250,000 0400,1050 480,2010 Incentive Density PWL HMA Pavement DOL 1,250,000 0400,1050 480,2010 Incentive Density PWL HMA Pavement DOL 1,250,000 0400,1050 480,2010 Asphalic Studies Only PWL HMA Pavement DOL 1,250,000 0400,1050 480,000 Asphalic Studies Only PWL HMA Pavement DOL 1,250,000 0400,1050 480,000 480,000 4							
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086 650.8000 Construction Staking Resurfacing Reference LF 29,706.000 29,706.000 088 650.9910 Construction Staking Supplemental Control (project) 01. 5880-00-67 LS 1.000 1.000 090 690.0150 Sawing Asphalt LF 1,692.000 1,692.000 092 740.0440 Incentive IRI Ride DOL 2,240.000 2,240.000 094 801.0117 Railroad Flagging Reimbursement DOL 2,400.000 2,400.000 096 SPV.0060 Special 01. Verify Landmark Reference Monuments EACH 1.000 1.000							
088 650.9910 Construction Staking Supplemental Control (project) 01. 5880-00-67 LS 1.000 1.000 090 690.0150 Sawing Asphalt LF 1,692.000 1,692.000 092 740.0440 Incentive IRI Ride DOL 2,240.000 2,240.000 094 801.0117 Railroad Flagging Reimbursement DOL 2,400.000 2,400.000 096 SPV.0060 Special 01. Verify Landmark Reference Monuments EACH 1.000 1.000							
090 690.0150 Sawing Asphalt LF 1,692.000 1,692.000 092 740.0440 Incentive IRI Ride DOL 2,240.000 2,240.000 094 801.0117 Railroad Flagging Reimbursement DOL 2,400.000 2,400.000 096 SPV.0060 Special 01. Verify Landmark Reference Monuments EACH 1.000 1.000							
740.0440 Incentive IRI Ride DOL 2,240.000 2,240.000 0094 801.0117 Railroad Flagging Reimbursement DOL 2,400.000 2,400.000 0096 SPV.0060 Special 01. Verify Landmark Reference Monuments EACH 1.000 1.000							
0094 801.0117 Railroad Flagging Reimbursement DOL 2,400.000 2,400.000 0096 SPV.0060 Special 01. Verify Landmark Reference Monuments EACH 1.000 1.000							
0096 SPV.0060 Special 01. Verify Landmark Reference Monuments EACH 1.000 1.000							
ນບອຮ SPV.ບບ6ບ Special ປZ. Landmark Reterence Monuments EACH 1.000 1.000			· · · · · · · · · · · · · · · · · · ·				
	0098	SPV.0060	Special U2. Landmark Reference Monuments	EACH	1.000	1.000	

03/18/2022 06:41:43

Estimate Of Quantities Page

5880-00-67

0100 SPV.0180 Special 01. Removing Distressed Pavement Milling SY 10,426.000 10,426.000

204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY STATION TO STATION LOCATION SY REMARKS 0010 202+75 - 202+81 CL 20 0010 20 499+75 - 499+81 CL TOTAL 0010 40

211.0400

211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY STATION TO STATION LOCATION STA RE 0020 202+75 - 221+52 LT 8 0020 202+75 - 244+06 RT 17 0020 222+40 - 293+87 LT 29 0020 245+10 - 278+22 RT 14 0020 279+00 - 294+62 RT 7 0020 294+98 - 377+09 LT 33	
0020 202+75 - 244+06 RT 17 0020 222+40 - 293+87 LT 29 0020 245+10 - 278+22 RT 14 0020 279+00 - 294+62 RT 7	MARKS
0020 222+40 - 293+87 LT 29 0020 245+10 - 278+22 RT 14 0020 279+00 - 294+62 RT 7	**
0020 245+10 - 278+22 RT 14 0020 279+00 - 294+62 RT 7	**
0020 279+00 - 294+62 RT 7	**
	**
0020 294+98 - 377+09 LT 33	**
0020 251150 317105 21 35	**
0020 295+53 - 349+51 RT 22	**
0020 350+35 - 376+61 RT 11	**
0020 377+96 - 395+77 LT 8	**
0020	**
0020 396+64 - 413+35 LT 7	**
0020 414+10 - 418+48 LT 2	**
0020 419+28 - 456+76 LT 8	**
0020 438+16 - 499+81 LT 25	**
0020	**
0020 483+00 - 496+00 RT 6	**
0020 497+00 - 499+81 RT <u>2</u>	**
TOTAL 0020 241	

PROJECT TOTAL 241 305.0110

AGGREGATE DENSE 3/4-INCH WATER STATION TO STATION LOCATION CATEGORY TON REMARKS 0020 202+75 - 221+52 LT 122 SHOULDER 0020 202+75 - 213+22 RT 68 SHOULDER RT 200 0020 213+75 - 244+06 SHOULDER 0020 222+40 - 293+87 LT 466 SHOULDER 0020 245+10 - 278+22 RT 216 SHOULDER RT 0020 279+00 - 294+62 102 SHOULDER LT 536 11 0020 294+98 - 377+09 SHOULDER RT 352 0020 295+53 - 349+51 SHOULDER 0020 350+35 - 376+61 RT 171 SHOULDER 0020 377+96 - 395+77 LT 116 SHOULDER 0020 377+52 - 463+10 RT 560 11 SHOULDER 0020 396+64 - 413+35 LT 109 SHOULDER 0020 414+10 - 418+48 LT 29 SHOULDER 0020 419+28 - 437+29 LT 118 SHOULDER 0020 438+16 - 456+78 LT 122 SHOULDER

305.0110

BASE

110

85

19

3,501

624.0100

SHOULDER

SHOULDER

SHOULDER

NOTE: ITEM 305.0110 BASE AGGREGATE DENSE 3/4 - INCH TON QUANTITIES CAN ALSO BE FOUND UNDER DRIVEWAY SUMMARY.

LT

RT

RT

TOTAL 0020

HWY: USH 12 Ε PROJECT NO: 5880-00-67 COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET

N:\PDS\C3D\58800037\SHEETSPLAN\030201-MQ.DWG FILE NAME :

LAYOUT NAME - 01

PLOT DATE : 3/7/2022 3:44 PM PLOT BY: KLUDY, KATHLEEN M

0020

0020

0020

483+00

499+81

483+00 - 496+00

497+00 - 499+81

PLOT NAME :

PLOT SCALE :

^{** 2} FT HSIP PORTION OF SHOULDER.

	<u> </u>	IVEVVAI JUIVIIVIAI	<u> </u>				
			204.0110	305.0110	465.0120		
					ASPHALTIC		
					SURFACE		
			REMOVING	BASE	DRIVEWAYS AND		
			ASPHALTIC	AGGREGATE	FIELD		
			SURFACE	DENSE 3/4-INCH	ENTRANCES		
CATEGORY	STATION	LOCATION	SY	TON	TON	REMARKS	FIRE NUMBER
0010	218+60	RT	42		5	P.E. ASPH.	541
0010	222+04	LT	481			INDUSTRIAL AVE	
0010	225+75	RT		19		P.E. AGG	
0010	226+80	RT		19		P.E. AGG	
0010	230+60	RT	33		4	P.E. ASPH.	
0010	237+47	RT		19		P.E. AGG	
0010	251+10	RT		45		P.E. AGG	811
0010	254+31	RT		45		P.E. AGG	821
0010	263+15	RT		58		P.E. AGG	
0010	270+93	RT		20		P.E. AGG	N1681
0010	280+00	RT		24		P.E. AGG	N1629
0010	283+48	RT		19		P.E. AGG	N1599
0010	284+92	RT		19		P.E. AGG	N1595
0010	286+36	RT	88		10	P.E. ASPH.	N1591
0010	289+22	RT		19		P.E. AGG	N1585
0010	290+96	RT	40		4	P.E. ASPH.	N1575
0010	294+00	RT		19		P.E. AGG	N1565
0010	305+35	RT	38		4	P.E. ASPH.	N1475
0010	313+50	RT		19		F.E. AGG	
0010	316+24	LT		27		P.E. AGG	N1440
0010	316+50	RT		19		F.E. AGG	
0010	320+22	RT	20		2	P.E. ASPH.	N1443
0010	325+25	RT	31		3	C.E. ASPH.	N1405
0010	326+55	RT	40		5	C.E. ASPH.	
0010	338+57	RT		19		P.E. AGG	N1319
0010	343+19	RT		19		P.E. AGG	N1311
0010	346+00	RT	37		4	P.E. ASPH.	N1295
0010	348+43	LT	37	16	•	F.E. AGG	111233
0010	354+61	RT		44		C.E. AGG	N1245
0010	356+43	LT		16		F.E. AGG	111243
0010	356+50	RT		56		C.E. AGG	N1243
0010	357+87	RT		19		P.E. AGG	N1235
0010	364+19	LT		16		P.E. AGG	111233
0010	374+94	RT		22		P.E. AGG	N1175
0010	374+54	LT	60	22	7	P.E. ASPH.	N1175 N1126
0010	380+25	RT	60	22	,	P.E. AGG	N1126 N1127
0010	384+09		45		5		N1127 N1095
0010	385+93	RT	45 39			C.E. ASPH. C.E. ASPH.	N1095
		RT			4		N1020
0010	394+53	LT	41	20	5	P.E. ASPH.	N1030
0010	396+10	RT	4.0	28	F	C.E. AGG	N1005
0010	399+25	RT	48		5 7	C.E. ASPH.	NOO1
0010	416+66	RT	59	4.0	/	C.E. ASPH.	N881
0010	422+75	RT		19		P.E. AGG	N783
0010	424+25	LT		45		P.E. AGG	N782
0010	428+74	RT		24	-	P.E. AGG	N781
0010	428+92	LT	54		6	P.E. ASPH.	N780

DRIVEWAY SUMMARY

DRIVEWAY		
204.0110	305.0110	465.0120
		ASPHALTIC

			SURFACE	
	REMOVING	BASE	DRIVEWAYS AND	
	ASPHALTIC	AGGREGATE	FIELD	
	SURFACE	DENSE 3/4-INCH	ENTRANCES	
LOCATION	SY	TON	TON	

			SURFACE	DENSE 3/4-INCH	ENTRANCES		
CATEGORY	STATION	LOCATION	SY	TON	TON	REMARKS	FIRE NUMBER
0010	431+25	RT	34		4	P.E. ASPH.	N773
0010	431+64	LT		23		P.E. AGG	N770
0010	432+50	RT		19		P.E. AGG	N769
0010	434+30	RT		23		P.E. AGG	N759
0010	435+16	LT		28		P.E. AGG	N758
0010	436+44	RT		31		P.E. AGG	N735
0010	442+37	LT		22		P.E. AGG	N714
0010	443+98	LT		22		P.E. AGG	N702
0010	444+12	RT		19		P.E. AGG	N705
0010	447+72	RT	56		6	C.E. ASPH.	N701
0010	449+24	LT		26		P.E. AGG	N682
0010	451+71	LT		28		P.E. AGG	N680
0010	452+34	RT	115		13	C.E. ASPH.	
0010	452+75	LT		27		P.E. AGG	N678
0010	455+30	LT		24		P.E. AGG	N676
0010	487+00	RT		84		C.E. AGG	N469
0010	498+69	LT		16		P.E. AGG	
			205	392	23		_
		SUBTOTAL 1	1,196	755	80		

NOTE: ADDITIONAL AMOUNTS OF ITEM 305.0110 BASE AGGREGATE DENSE 3/4 - INCH TON QUANTITIES CAN ALSO BE FOUND UNDER ITEM 305.0110 BASE AGGREGATE DENSE 3/4 - INCH TON.

SUBTOTAL 2 TOTAL 0010

NOTE: ADDITIONAL AMOUNTS OF ITEM 305.0110 BASE AGGREGATE DENSE 3/4 - INCH TON QUANTITIES CAN ALSO BE FOUND UNDER ITEM 305.0110 BASE AGGREGATE DENSE 3/4 - INCH TON.

1,196

SUBTOTAL 1

HWY: USH 12 COUNTY: JUNEAU PROJECT NO: 5880-00-67 MISCELLANEOUS QUANTITIES SHEET

FILE NAME : N:\PDS\C3D\58800037\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 02

PLOT DATE : 3/7/2022 3:44 PM

PLOT NAME :

PLOT SCALE : 1" = 1'

<u>ASPHALT SUMMARY</u>

204.0120 455.0605 460.6224 465.0105

REMOVING

CATEGORY	STATION	TO	STATION	LOCATION	ASPHALTIC SURFACE MILLING SY	TACK COAT GAL	HMA PAVEMENT 4 MT 58-28 S TON	ASPHALTIC SURFACE TON	REMARKS
0010	202+75	_	499+81	CL	79,216	5,545	8,950		THROUGH LANES
0010	202+75	_	221+52	LT	626	44	71		SHOULDER
0010	202+75	_	244+06	RT	1,377	96	154		SHOULDER
0010	222+40	_	293+87	LT	2,383	167	267		SHOULDER
0010	245+10	_	278+22	RT	1,104	77	124		SHOULDER
0010	279+00	_	294+62	RT	521	36	59		SHOULDER
0010	294+98	_	377+09	LT	2,737	192	307		SHOULDER
0010	295+53	_	349+51	RT	1,800	126	201		SHOULDER
0010	350+35	_	365+12	RT	492	35	55		SHOULDER
0010	365+12	_	370+36	RT	247	17	28		BEAMGUARD AREA
0010	365+16	_	371+08	LT	312	22	35		BEAMGUARD AREA
0010	370+36	_	376+61	RT	312	15	23		SHOULDER
0010	371+08	_	377+09	LT	200	14	22		SHOULDER
0010	377+52	_	463+10	RT	2,853	200	320		SHOULDER
0010	377+96	_	395+77	LT	594	42	67		SHOULDER
0010	396+64		406+74	LT	337	39	63		SHOULDER
0010	406+74	_	409+02	LT	254	18	28		BEAMGUARD AREA
0010	407+60	-	409+84	RT	249	18	28		BEAMGUARD AREA
0010	407+00	_	413+35	LT	144	10	16		SHOULDER
0010	409+84	-	463+10	RT	1,775	124	199		SHOULDER
0010	414+10		418+48	LT	146	10	16		
0010		-			600	42	68		SHOULDER
	419+28	-	437+29	LT					SHOULDER
0010	438+16	-	499+81	LT	2,055	144	230		SHOULDER
0010	464+10	-	496+00	RT	1,063	74 26	120		SHOULDER
0010	492+34	-	495+92	RT	367		42		RIGHT TURN LANE
0010	494+00	-	499+81	LT	695	49	79		PASSING LANE
0010	497+00	-	499+81	RT	94	7	11		SHOULDER
0010	213+22	-	213+75	RT	64	4	7		PINE ST
0010	221+38	-	222+35	LT	444	34	55		INDUSTRIAL AVE
0010	244+02	-	245+09	RT	111	8	12		EAST ST
0010	277+22	-	278+07	RT	86	6	10		AMHERST RD
0010	294+62	-	295+53	RT	83	6	10		SOUTHERN RD
0010	293+87	-	294+95	LT	108	8	12		KOVAL RD
0010	349+52	-	350+32	RT	129	9	15		REST HAVEN RD
0010	376+61	-	377+52	RT	102	7	11		DEES RD
0010	377+09	-	377+96	LT	91	6	11		DEES RD
0010	395+77	-	396+64	LT	78	5	9		ARBOR LAKE RD N
0010	413+35	-	414+06	LT	77	5	9		ARBOR LAKE RD E
0010	418+48	-	419+21	LT	63	4	7		OAKGLEN CIRCLE
0010	437+29	-	438+16	LT	95	7	11		OAKGLEN LANE
0010	463+07	-	464+18	RT	91	6	10		ARROWHEAD RD
0010	495+94	-	497+08	RT	152	11	17		CTH J
0010	202+75		499+81	CL				1,169	DISTRESSED PAVEMENT AREAS
				TOTAL 0010	103,571	7,315	11,789	1,169	-

<u>A</u> :	SPHALT SUMMARY CONTINUED			
	204.0120	455.0605	460.6224	465.0105
	REMOVING			
	ASPHALTIC			

				ASFIIALITC				
				SURFACE		HMA PAVEMENT	ASPHALTIC	
				MILLING	TACK COAT	4 MT 58-28 S	SURFACE	
STATION	TO	STATION	LOCATION	SY	GAL	TON	TON	REMARKS
202+75	-	221+52	LT		21	47	35	**
202+75	-	244+06	RT		46	103	77	**
222+40	-	293+87	LT		79	178	133	**
245+10	-	278+22	RT		37	82	62	**
279+00	-	294+62	RT		17	39	29	**
294+98	-	377+09	LT		91	204	153	**
295+53	-	349+51	RT		60	134	101	**
350+35	_	376+61	RT		29	65	49	**
377+52	-	457+76	RT		89	200	150	**
377+96	-	395+77	LT		20	44	33	**
396+64	-	413+35	LT		19	42	31	**
414+10	-	418+48	LT		5	11	8	**
419+28	-	437+29	LT		20	45	34	**
438+16	-	457+76	LT		69	153	115	**
483+00	-	499+81	LT		15	33	24	**
483+00	-	496+00	RT		15	33	24	**
497+00	-	499+81	RT _		3	7	5	**
			TOTAL 0020	0	635	1,420	1,063	
			PROJECT TOTAL	103,571	7,950	13,209	2,232	
	202+75 202+75 222+40 245+10 279+00 294+98 295+53 350+35 377+52 377+96 396+64 414+10 419+28 438+16 483+00 483+00	202+75 - 202+75 - 202+75 - 222+40 - 245+10 - 279+00 - 294+98 - 295+53 - 350+35 - 377+52 - 377+96 - 396+64 - 414+10 - 419+28 - 438+16 - 483+00 -	202+75 - 221+52 202+75 - 244+06 222+40 - 293+87 245+10 - 278+22 279+00 - 294+62 294+98 - 377+09 295+53 - 349+51 350+35 - 376+61 377+96 - 395+77 396+64 - 413+35 414+10 - 418+48 419+28 - 437+29 438+16 - 457+76 483+00 - 499+81 483+00 - 496+00	202+75 - 221+52 LT 202+75 - 244+06 RT 222+40 - 293+87 LT 245+10 - 278+22 RT 279+00 - 294+62 RT 294+98 - 377+09 LT 295+53 - 349+51 RT 350+35 - 376+61 RT 377+52 - 457+76 RT 377+96 - 395+77 LT 396+64 - 413+35 LT 414+10 - 418+48 LT 419+28 - 437+29 LT 438+16 - 457+76 LT 483+00 - 499+81 LT 483+00 - 499+81 RT 497+00 - 499+81 RT TOTAL 0020	STATION TO STATION LOCATION SY 202+75 - 221+52 LT 202+75 - 244+06 RT 222+40 - 293+87 LT 245+10 - 278+22 RT 279+00 - 294+62 RT 294+98 - 377+09 LT 295+53 - 349+51 RT 350+35 - 376+61 RT 377+96 - 395+77 LT 396+64 - 413+35 LT 419+28 - 437+29 LT 438+16 - 457+76 LT 483+00 - 499+81 LT 483+00 - 499+81 RT 497+00 - 499+81 RT TOTAL 0020 0 0	STATION TO STATION LOCATION SY GAL 202+75 - 221+52 LT 21 202+75 - 244+06 RT 46 222+40 - 293+87 LT 79 245+10 - 278+22 RT 37 279+00 - 294+62 RT 17 294+98 - 377+09 LT 91 295+53 - 349+51 RT 60 350+35 - 376+61 RT 29 377+96 - 395+77 LT 20 396+64 - 413+35 LT 19 419+28 - 437+29 LT 20 438+16 - 457+76 LT 69 483+00 - 499+81 LT 15 497+00 - 499+81 RT 3 TOTAL 0020 0 635	STATION TO STATION LOCATION SY GAL TON 202+75 - 221+52 LT 21 47 202+75 - 244+06 RT 46 103 222+40 - 293+87 LT 79 178 245+10 - 278+22 RT 37 82 279+00 - 294+62 RT 17 39 294+98 - 377+09 LT 91 204 295+53 - 349+51 RT 60 134 350+35 - 376+61 RT 29 65 377+52 - 457+76 RT 89 200 377+96 - 395+77 LT 20 44 414+10 - 418+48 LT 5 11 419+28 - 437+29 LT 20 45 438+00 - 499+81 LT 15<	STATION TO STATION LOCATION SY GAL TON TON

**PAVED SHOULDER WIDENING

PROJECT NO: 5880-00-67 HWY: USH 12 COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME : N:\PDS\C3D\\$8800037\\$HEET\$PLAN\030201-MQ.DWG LAYOUT NAME - 03

PLOT DATE : 3/7/2022 3:44 PM

PLOT BY: KLUDY, KATHLEEN M

PLOT NAME :

PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

PERCENT WITHIN LIMITS SUMMARY

460.0105.S

460.0110.S

HMA PERCENT HMA PERCENT WITHIN LIMITS WITHIN LIMITS (PWL) TEST STRIP (PWL) TEST STRIP

VOLUMETRICS DENSITY

CATEGORY STATION TO STATION LOCATION EACH EACH REMARKS 0010 202+75 - 499+81

TOTAL 0010

PWL MIXTURE USE TABLE

LOCATION					MIXTURE	UNDERLYING	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PRO	GRAM TO BE USED FOR:	COMMENTS
	STATION	TO	STATION	LOCATION	USE:	SURFACE				MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE	
DRIVING LANE	202+75	_	499+81	CL	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	8,950	2"	PWL INCENTIVE AIR VOIDS	INCENTIVE DENSITY PWL HMA	
DITITING LAINE	202173	_	433161	CL	OFFEREATER	WILLER EXISTING TIMA SONT ACE	4 1011 30-20 3	8,550		HMA PAVEMENT 460.2010	PAVEMENT 460.2005	
3 FOOT SHOULDER	TOTAL LENGTH 56,088 FT		3 FT	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	2,393	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE		
SHOULDER WIDENING	TO	TAL LE	NGTH 58,149) FT	UPPER LAYER	ASPHALTIC SURFACE	4 MT 58-28 S	710	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	
SHOULDER WIDENING	TO ⁻	TAL LE	NGTH 58,149) FT	LOWER LAYER	BASE COURSE	ASPHALTIC SURFACE	710	2"	QMP PER SS 465	ACCEPTANCE BY ORDINARY COMPACTION	
BEAMGUARD SHOULDER AREA	TO)TAL LE	ENGTH 1,568	FT	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	119	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	
	492+34	-	495+92	R⊤								RIGHT TURN LANE
	494+00	-	499+81	LT								PASSING LANE
	213+22	-	213+75	R⊤								PINE ST
	221+38	-	222+35	LT								INDUSTRIAL AVE
	244+02	-	245+09	RT								EAST ST
	277+22	-	278+07	R⊤								AMHERST RD
	294+62	-	295+53	RT								SOUTHERN RD
	293+87	-	294+95	LT						PWL INCENTIVE AIR VOIDS	ACCEPTANCE TESTING BY THE	KOVAL RD
SIDELINE INTERSECTIONS	349+52	-	350+32	RT	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	327	2"	HMA PAVEMENT 460.2010	DEPARTMENT; NOT ELIGIBLE	REST HAVEN RD
	376+61	-	377+52	RT							FOR INCENTIVE	DEES RD
	377+09	-	377+96 396+64	LT								DEES RD
	395+77 413+35	-	414+06	LT LT								ARBOR LAKE RD N ARBOR LAKE RD E
	413+35	-	414+06	LT LT								OAKGLEN CIRCLE
	437+29	_	438+16	LT LT								OAKGLEN LANE
	463+07	_	464+18	RT								ARROWHEAD RD
	495+94		497+08	RT								CTH J
	400104		T-37 100	13.1		1		I	1	I		[[[]

PROJECT NO: 5880-00-67 HWY: USH 12 COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET Ε PLOT SCALE : 1" = 1' FILE NAME : N:\PDS\C3D\58800037\SHEETSPLAN\030201-MQ.DWG PLOT DATE : 3/7/2022 3:44 PM PLOT BY: KLUDY, KATHLEEN M PLOT NAME :

LAYOUT NAME - 04

	,		1)
		4		

		465.0425					<u>4</u>	65.0425 CONTINUI	<u>-D</u>					<u>465.0475</u>		
			465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS						465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL					R	465.0475 ASPHALT CENTERLINE UMBLE STRIPS 2-LANE RURAL	
CATECORY	MOLTATO OT MOLTATO	LOCATION	2-LANE RURAL LF	DEMARKS	CATEGORY	STATION T	TO STATION	LOCATION	LF	REMARKS	CATEGORY	MOLTATS	TO STATION	LOCATION	LF	REMARKS
CATEGORY 0020	STATION TO STATION 202+75 - 221+00	LOCATION LT	1,460	REMARKS	0020	200 75	- 398+00	RT	100		0010	202+75	- 211+53	CL	878	ILIVIAINS
0020	202+75 - 221+00	RT	700		0020		- 415+25	RT	1,220		0010	215+53	- 220+04	CL	451	
	214+75 - 218+25				0020		- 417+50	LT	200		0010	224+04		CL	1,844	
0020		R⊤	280		0020		- 422+25	RT	400		0010	246+48	- 276+75	CL	3,027	
0020	219+10 - 225+25	R⊤	492		0020	400.00	- 423+50	LT	280		0010	000 75	000 75	CL	1,200	
0020	223+50 - 292+75	LT	5,540		0020	423+00	- 428+25	RT	420							
0020	227+25 - 243+25	RT	1,280		0020		- 428+25	LT	280		0010	296+75	- 347+75	CL	5,100	
0020	246+25 - 250+75	RT	360		0020		- 431+25	LT	160		0020	351+75	- 353+60	CL	185	
0020	251+75 - 253+50	RT	140		0020		- 430+90	RT.	152		0020		- 375+25	CL	1,750	
0020	254+75 - 270+25	RT	1,240		0020		- 434+75	LT	220		0020	379+25	- 383+00	CL	375	
0020	271+00 - 277+50	RT	520		0020		- 434+00	R⊤	100		0020	386+90	- 394+25	CL	735	
0020	280+50 - 283+00	RT	200		0020		- 434+00 - 435+90	RT			0020	400+25	- 411+72	CL	1,147	
0020	283+75 - 284+50	RT	60						92		0020	415+72		CL	117	
0020	285+25 - 285+75	RT	40		0020		- 436+25	LT	56		0020		- 435+75	CL	1,488	
0020	287+00 - 288+75	RT	140		0020		- 443+75	R⊤	560		0020	439+75	- 451+34	CL	1,159	
0020	289+50 - 290+25	RT	60		0020		- 442+00	LT	260		0020	453+34	- 460+50	CL	716	
0020	291+50 - 293+75	RT	180		0020	112.73	- 443+75	LT	80		0020	483+00	- 486+00	CL	300	
0020	295+75 - 315+75	LT	1,600		0020		- 448+75	LT	340		0020	487+00	- 494+50	CL	750	
0020	296+50 - 319+75	RT	1,860		0020		- 446+00	RT	120		0020	498+50	- 499+81	CL	131	_
0020	316+75 - 363+75	LT	3,760		0020		- 450+75	RT	180					TOTAL 0010	21,353	
0020	320+75 - 324+10	R⊤	268		0020	113.30	- 451+25	LT	140							
0020	327+25 - 328+50	R⊤	100		0020	453+25	- 459+10	RT	468							
0020	329+50 - 338+00	R⊤	680		0020		- 454+75	LT	120							
0020	339+00 - 342+75	RT	300		0020		- 457+50	LT	140							
0020	343+50 - 345+50	R⊤	160		0020	100.00	- 495+00	RT	700							
0020	346+50 - 348+50	RT	160		0020	496+00	- 499+81	LT	381							
0020	350+35 - 376+61	RT	2,101	-	0020	499+00	- 499+81	RT	81							
0020	351+50 - 353+25	RT	140													
0020	358+25 - 375+75	R⊤	1,400					SUBTOTAL 2	7,250							
0020	364+50 - 376+00	LT	920													
0020	378+65 - 379+75	RT	88					SUBTOTAL 1	29,153							
0020	380+25 - 394+00	LT	1,100					SUBTOTAL 2	7,250	_						
0020	381+75 - 382+25	RT	40					TOTAL 0020	36,403							
0020	386+50 - 387+00	RT	40													
0020	387+75 - 394+75	RT	560													
0020	397+45 - 412+25	LT	1,184													
	397743 - 412723															
		SUBTOTAL 1	29,153							ADIIISTI	NG BEAM GUARD S	ΙΙΜΜΛΔΡΥ				
										<u>AD30311</u>	DE III GOARD S	SIVII II.I.				
												614.0400	614.0950	614.095	1	
												014.0400	REPLACING	514.033	±	
												ADJUSTING	GUARDRAIL	REPLACIN	G	
												STEEL PLATE	POSTS AND	GUARDRAIL		
								CATEG	ORV STATIO	ON TO STATION	LOCATION	BEAM GUARD LF	BLOCKS EACH	AND HARDW LF	REMA	N D K C
								CATEG	JINI JIAIIU	AN TO STATION	LOCATION	LF	LACII	LF	IZ ETVI	711117

			BEAM GUARD	BLOCKS	AND HARDWARE	
CATEGORY	STATION TO STATION	LOCATION	LF	EACH	LF	REMARKS
0010	367+00 - 370+36	RT	336	5	34	*
0010	367+25 - 371+08	LT	383	6	39	*
0010	406+74 - 409+02	LT	228	4	23	*
0010	407+60 - 409+84	RT	224	3	23	*
		TOTAL 0010	1,171	18	119	

^{*}ITEM 614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE IS UNDISTRIBUTED AND 10% OF OF ITEM 614.0400 ADJUSTING STEEL PLATE BEAM GUARD.

COUNTY: JUNEAU Ε PROJECT NO: 5880-00-67 HWY: USH 12 MISCELLANEOUS QUANTITIES SHEET PLOT BY: KLUDY, KATHLEEN M PLOT SCALE : 1" = 1' FILE NAME : N:\PDS\C3D\58800037\SHEETSPLAN\030201-MQ.DWG PLOT DATE : 3/7/2022 3:44 PM PLOT NAME :

LAYOUT NAME - 05

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	MOV	<u>/ING SIGNS S</u>	SUMMARY							643.50	<u>000</u>					
CATEGORY 0010	STATION TO STATION 202+75 - 499+81	LOCATIC USH 12	13	OD (18- MOVING TYP EAC	S SIGNS E II CH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH 13	CATEGORY 0010		N TO STAT 5 - 499+		TRA CON' ION EA	TROL CH 1	REMARKS			
		TOTAL 00	10 13	13	3	13				MARKING LINE	4-INCH SUMMAF	<u>RY</u>				
			643.0300	643.0300 TRAFFIC CONTROL							M. GF R	646.1040 ARKING LINE ROOVED WET EF EPOXY 4- INCH	4-INCH	646.6464 COLD WEATHER MARKING EPOXY 4-INCH	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH	
			NO.	DRUMS			CATEGORY		N TO STATI		ATION	LF	LF	LF	LF	REMARKS
CATEGORY		OCATION	DRUMS	DAY	REMAR	<u>KS</u>	0010		- 499+8		5H 12		32,176		30,045	YELLOW
0010	PINE ST	RT	10	70	*		0010	202+75			H 12	57,668		3,605		WHITE
0010	INDUSTRIAL AVE	LT	10	70	*		0010	202+75	5 - 499+8		H 12	57.660	22.175	2,011	20.215	YELLOW
0010	EAST ST	RT	10	70	*					IOIA	L 0010	57,668	32,176	5,616	30,045	
0010	AMHERST RD	RT	10	70	*											
0010	SOUTHERN RD	RT	10	70	*				NANDVINI	G LINE 8-INCH SU	INANAADV					
0010	KOVAL RD	LT	10	70 70	*				IVIMININI	J LINE 8-INCIT 3C	<u> JIVIIVIAITI</u>					
0010	REST HAVEN RD	RT RT	10	70 70	*						646.3040	646.646	Q			
0010	DEES RD DEES RD	LT	10	70 70	*						MARKING LINE	040.040	0			
0010 0010	ARBOR LAKE RD N	LT	10 10	70 70	*						GROOVED WET	COLD WEAT	HED			
	ARBOR LAKE RD E	LT	10	70	*	<u> </u>					REF EPOXY 8-	MARKING EP				
0010	OAKGLEN CIRCLE	LT		70 70	*						INCH	8-INCH				
0010 0010	OAKGLEN CIRCLE OAKGLEN LANE	LT	10 10	70 70	*		CATEGORY	STATION TO	MOLTATS	LOCATION	LF	LF	REMARK	S		
					*		0010	493+92 -		RT	200	50	CTH J	<u> </u>		
0010	ARROWHEAD RD CTH J	RT RT	10	70 70	*		0010	493+92 -	493+92	_						
0010 *NOTE: THE FOR	R THE PROTECTION OF CURB & GU		10 TOTAL 0010	1,050						TOTAL 0010	200	50				
NOTE. INISTON	THE THORSE HON OF COMP & CC	TILIN.	TOTALOGIO	1,030					646.7420	646.7420						
		<u>64</u>	3.0900							MARKING CROSSWALK EPOXY						
				643.0900						TRANSVERSE						
				TRAFFIC			24==200			LINE 6-INCH						
CATEGORY	STATION TO STATION	LC	COCATION	DAY	REMARKS		CATEGORY 0010	469+14	USH 12	LF 30	REMARK	<u>.S</u>				
0010	202+75 - 499+81		& SIDEROADS	625 625			0010	469+19	USH 12 TOTAL 0010	30	_					
	<u>643.1050</u>						NOTE: STATION	IS ARE APPROX	IMATED. VERI	FY IN FIELD						
		.1050								648.0100						
		AFFIC														
		OL SIGNS									648.010)				
OATEGORY'		CMS	DELAKSIIS								LOCATING I					
CATEGORY)AY	REMARKS								PASSING ZO	NES				
0010 0010		14 14					CATEGORY	STATION T	O STATION	LOCATION	MI	REM	ARKS			
0010							0010	202+75	499+81	CL	5.6					
	TOTAL 0010	28								TOTAL 0010	5.6					
PROJECT NO: 58	80-00-67		HWY: USH 12			COUNTY: JUNEAU		MI	CELLANFO	US QUANTITII	ES				SHEET	E
IE NAME: NI-\DDC\C3D\E990			5511 12			3331111 30112/10	DLOT DATE : 2/7/2022 2			VILIDY VATULES				T SCALE : 1" = 1'	5,1,2,2,1	<u> </u>

PLOT DATE : 3/7/2022 3:44 PM PLOT BY : KLUDY, KATHLEEN M PLOT NAME : PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

			650.800 CONSTRUCT STAKING RESURFACI REFERENC	TION G NG	
CATEGORY		TION LOCATIO		REMARKS	_
0010	202+75 - 499	+81 CL TOTAL 00:	29,706 10 29,706		
	650.9910.01				
		650.9910.0 CONSTRUCT STAKING SUPPLEMEN CONTROL (PROJECT) (0 5880-00-6	TAL - D1.		
CATEGORY	LOCATION	LS	REMA	ARKS	
0010	USH 12 TOTAL 0010	1			
	LANDMARI	(REFERENCE MONU	<u>MENTS</u>		
			SPV.0060.01 SPECIAL (01. VERIFY LANDMARK REFERENCE MONUMENT)	SPV.0060.02 SPECIAL (02. LANDMARK REFERENCE MONUMENTS MODIFIED)	
CATEGORY	STATION	LOCATION	EACH	EACH	REMARKS
0010	462+91.74	85.66' RT TOTAL 0010	1 1 1000 IMENT CANNO	1 1 OT BE FOUND OR IS DAN	MAGE DO NOTUSERO

0020						
0010	230+60			RT	13	P.E. ASPH.
0010	244+02	-	245+09	R⊤	107	EAST ST
0010	277+22	-	278+07	RT	85	AMHERST RD
0010	286+36			R⊤	43	P.E. ASPH.
0010	290+96			RT	13	P.E. ASPH.
0010	294+62	-	295+53	R⊤	91	SOUTHERN RD
0010	293+87	-	294+95	LT	108	KOVAL RD
0010	305+35			R⊤	13	P.E. ASPH.
0010	320+22			RT	13	P.E. ASPH.
0010	325+25			R⊤	13	C.E. ASPH.
0010	326+55			R⊤	13	C.E. ASPH.
0010	346+00			R⊤	13	P.E. ASPH.
0010	349+52	-	350+32	RT	85	REST HAVEN RD
0010	376+61	-	377+52	R⊤	88	DEES RD
0010	377+09	-	377+96	LT	82	DEES RD
0010	379+68			LT	28	P.E. ASPH.
0010	384+09			R⊤	15	C.E. ASPH.
0010	385+93			R⊤	13	C.E. ASPH.
0010	394+53			LT	16	P.E. ASPH.
0010	395+77	-	396+64	LT	85	ARBOR LAKE RD N
0010	399+25			R⊤	19	C.E. ASPH.
0010	413+35	-	414+06	LT	69	ARBOR LAKE RD E
0010	416+66			R⊤	23	C.E. ASPH.
0010	418+48	-	419+21	LT	74	OAKGLEN CIRCLE
0010	428+92			LT	13	P.E. ASPH.
0010	431+25			R⊤	19	P.E. ASPH.
0010	437+29	-	438+16	LT	87	OAKGLEN LANE
0010	447+72			R⊤	20	C.E. ASPH.

RT

RT

TOTAL 0010

105

113

1,692

<u>690.0150</u>

RT

RT

LT

STATION TO STATION LOCATION

213+22 - 213+75

221+38 - 222+35

218+60

452+34

463+07 - 464+18

495+94 - 497+08

0010 0010

0010

CATEGORY

0010

0010

0010

690.0150 SAWING ASPHALT

53

18

91

REMARKS

PINE ST

P.E. ASPH.

INDUSTRIAL AVE

C.E. ASPH.

ARROWHEAD RD

CTH J

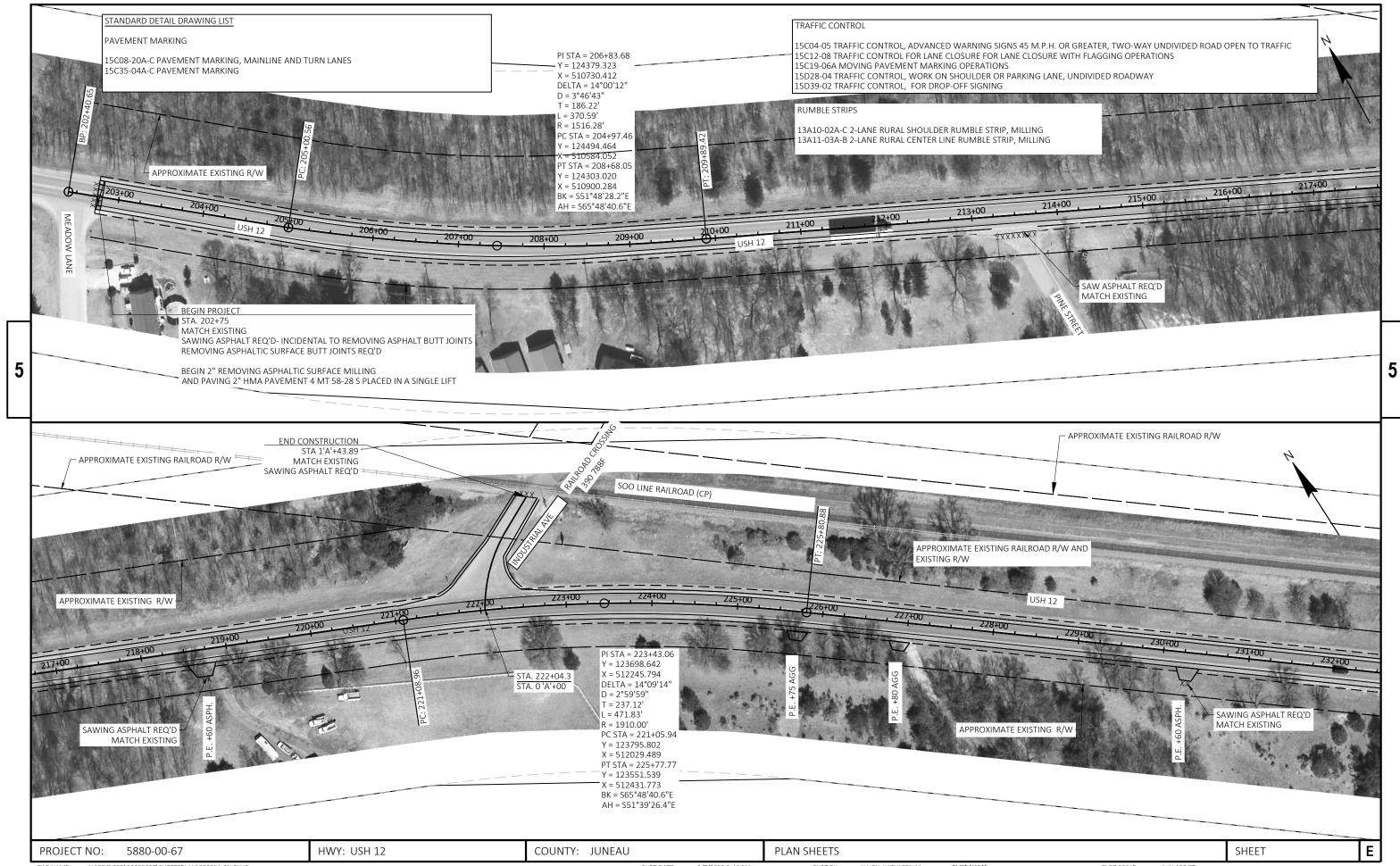
SPV.		

SPV.0180.01 SPECIAL (01. REMOVING DISTRESSED MILLING) REMARKS STATION TO STATION LOCATION SY CATEGORY 10,426 *DISTRESSED PAVEMENT AREAS (10% OF TOTAL) 0010 202+75 - 488+21 USH 12 TOTAL 0010 10,426

*PAVEMENT AREAS TO BE DETERMINED BY ENGINEER IN THE FIELD.

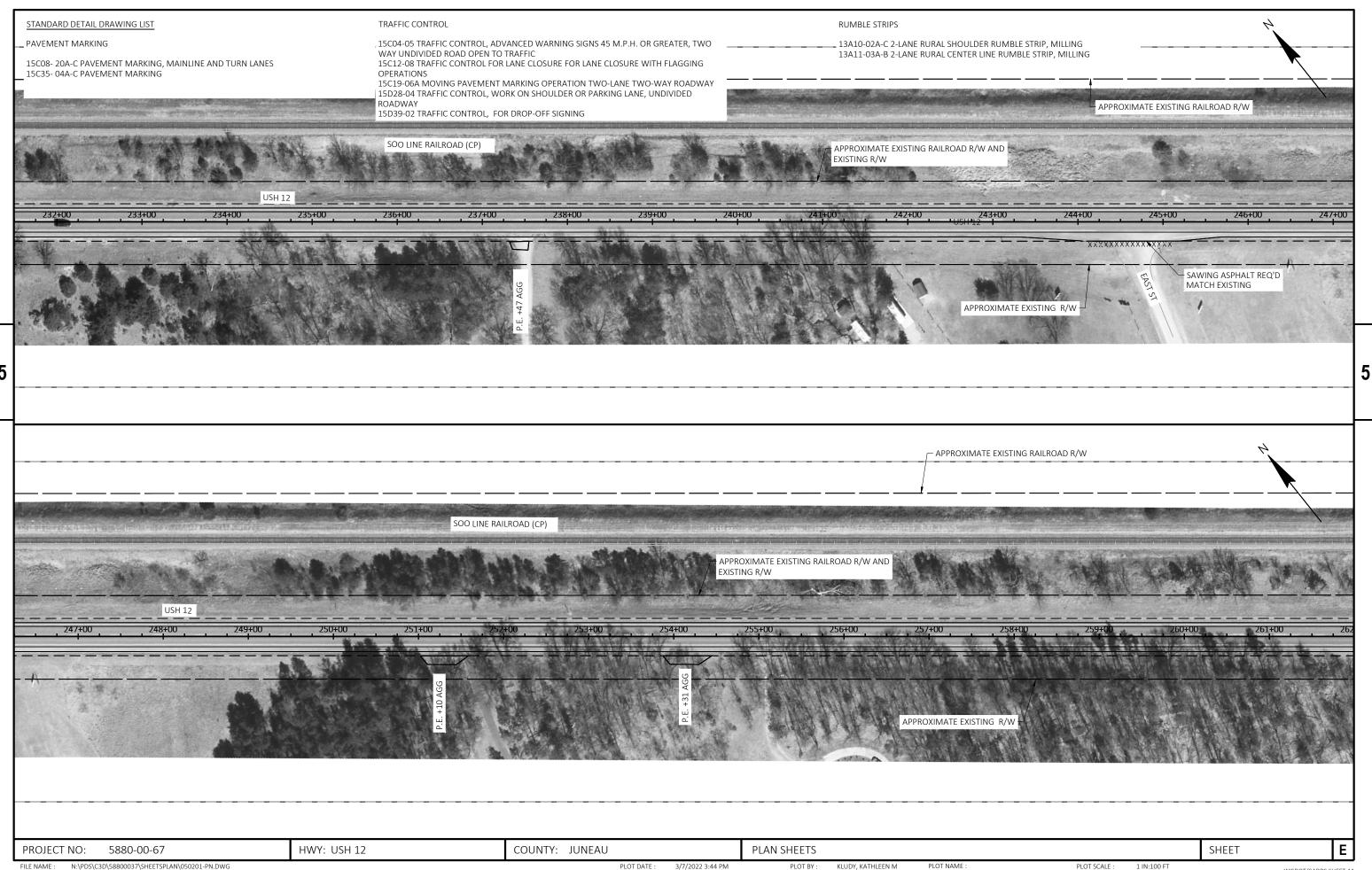
HWY: USH 12 MISCELLANEOUS QUANTITIES Ε PROJECT NO: 5880-00-67 COUNTY: JUNEAU SHEET FILE NAME : N:\PDS\C3D\58800037\SHEETSPLAN\030201-MQ.DWG PLOT DATE : 3/7/2022 3:44 PM PLOT BY: KLUDY, KATHLEEN M PLOT NAME : PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

LAYOUT NAME - 07



FILE NAME: N:\PDS\C3D\58800037\SHEETSPLAN\050201-PN.DWG PLOT DATE: 3/7/2022 3:44 PM PLOT BY: KLUDY, KATHLEEN M PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 44

LAYOUT NAME - 050201-pn

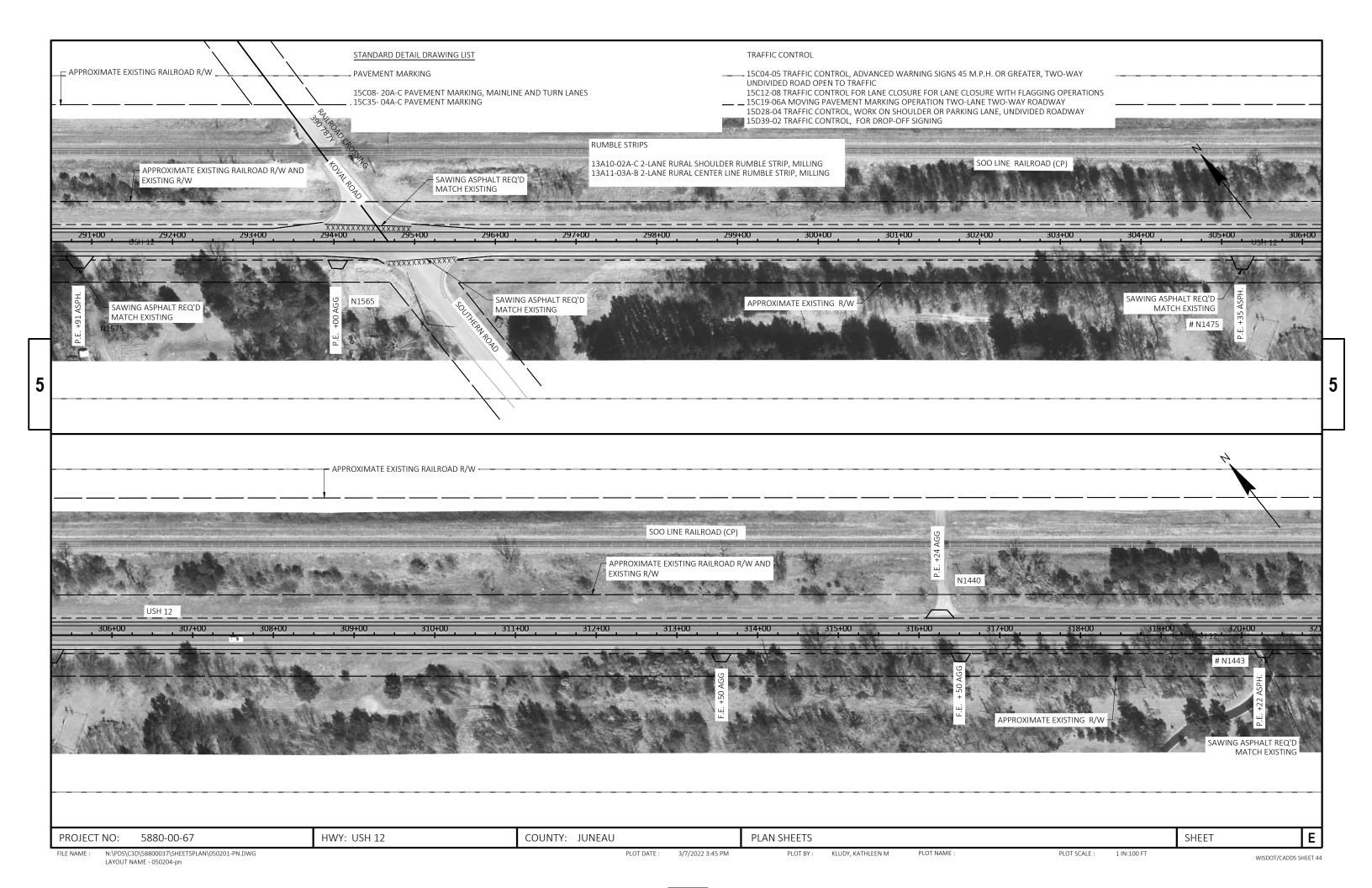


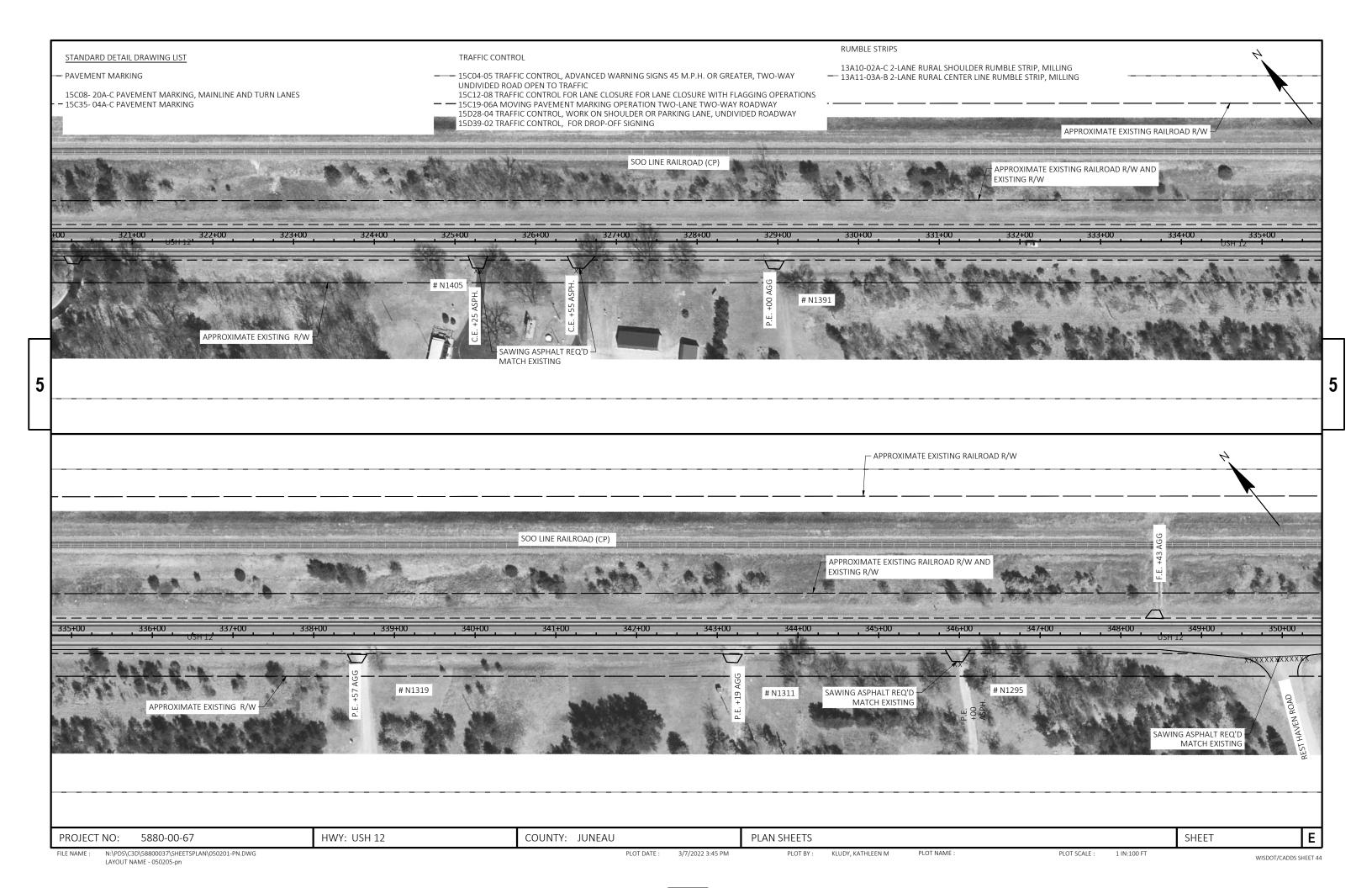
LAYOUT NAME - 050202-pn

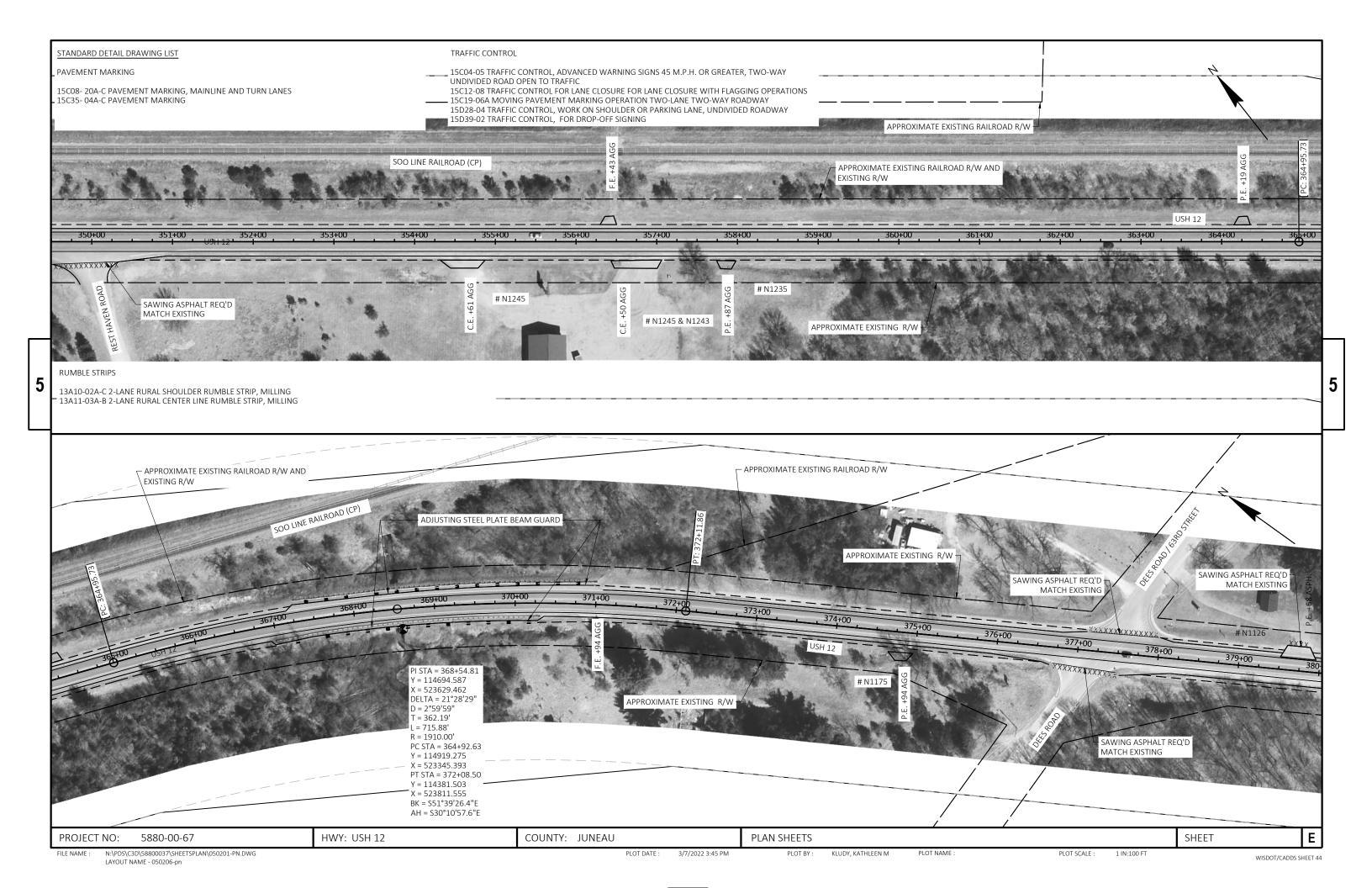


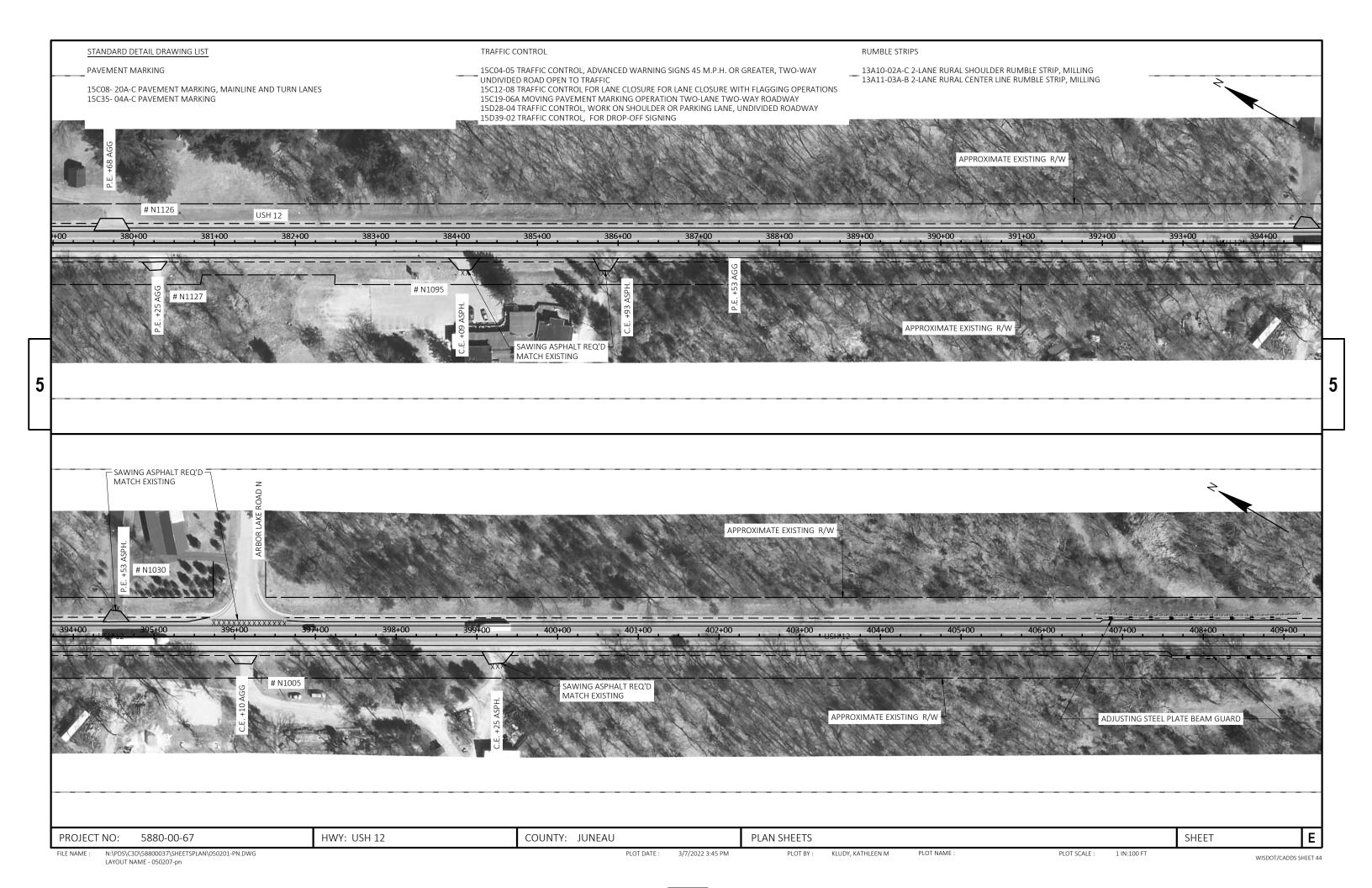
N:\PDS\C3D\58800037\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050203-pn

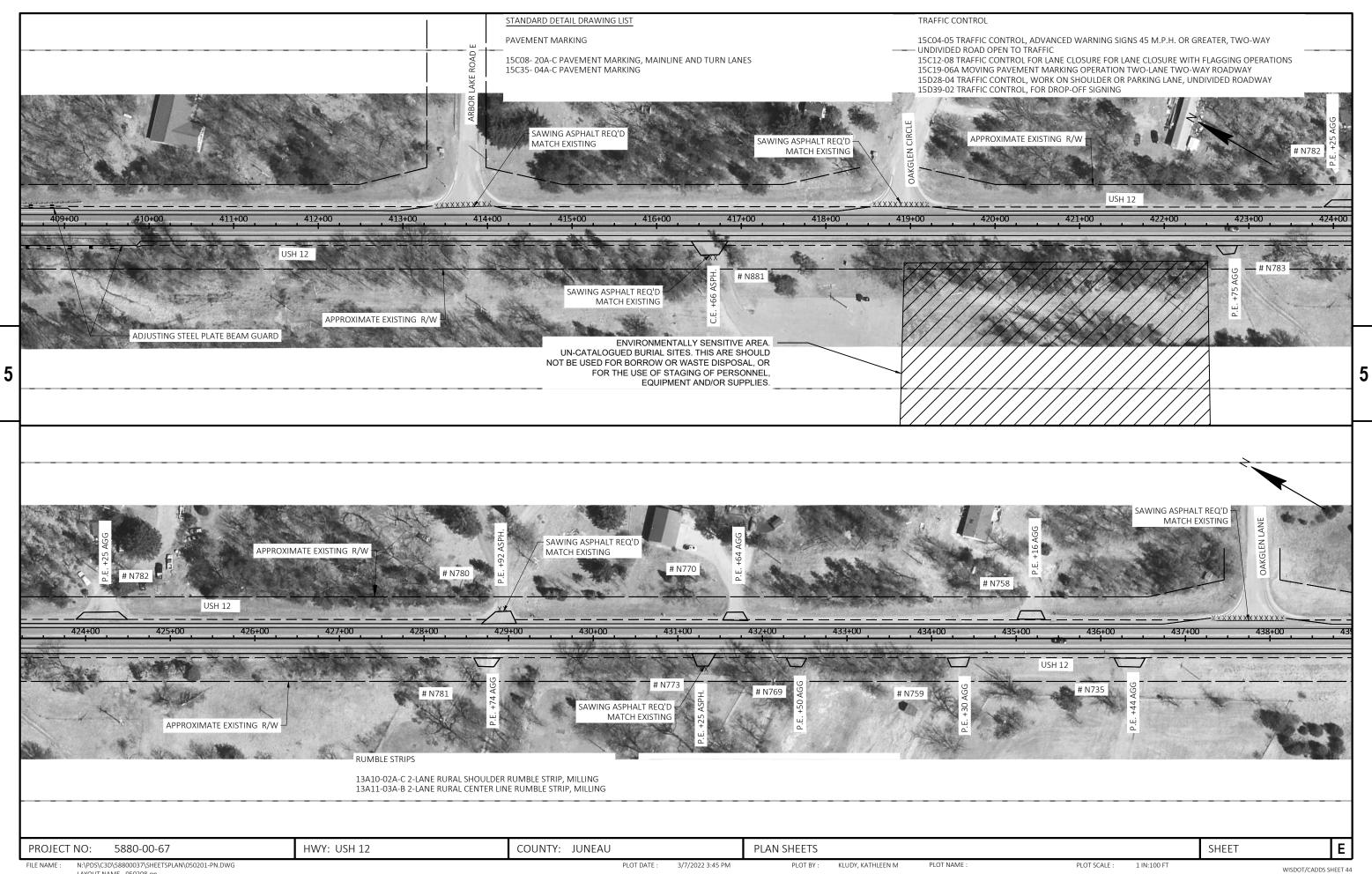
PLOT DATE : 3/7/2022 3:45 PM
PLOT BY : KLUDY, KATHLEEN M



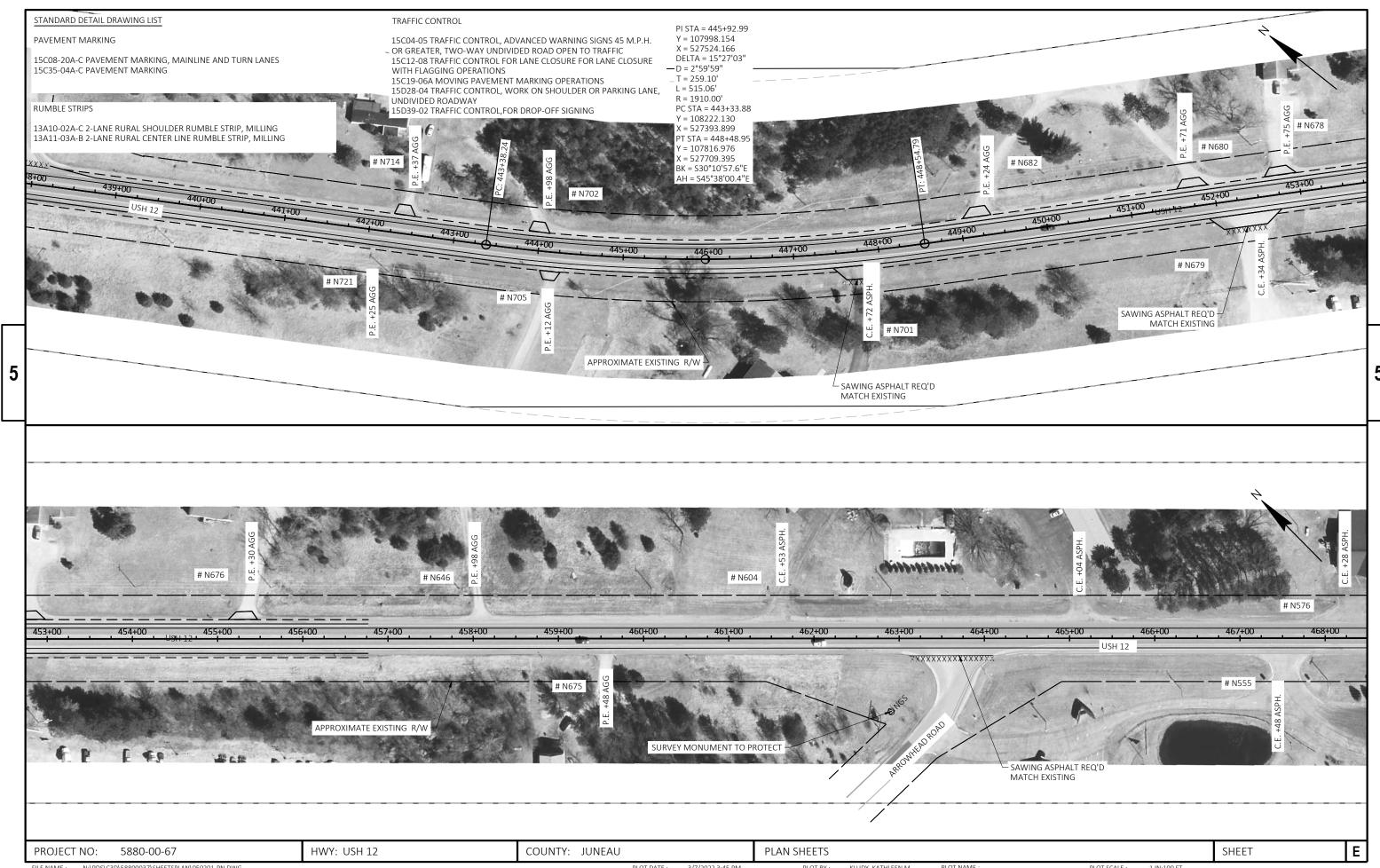




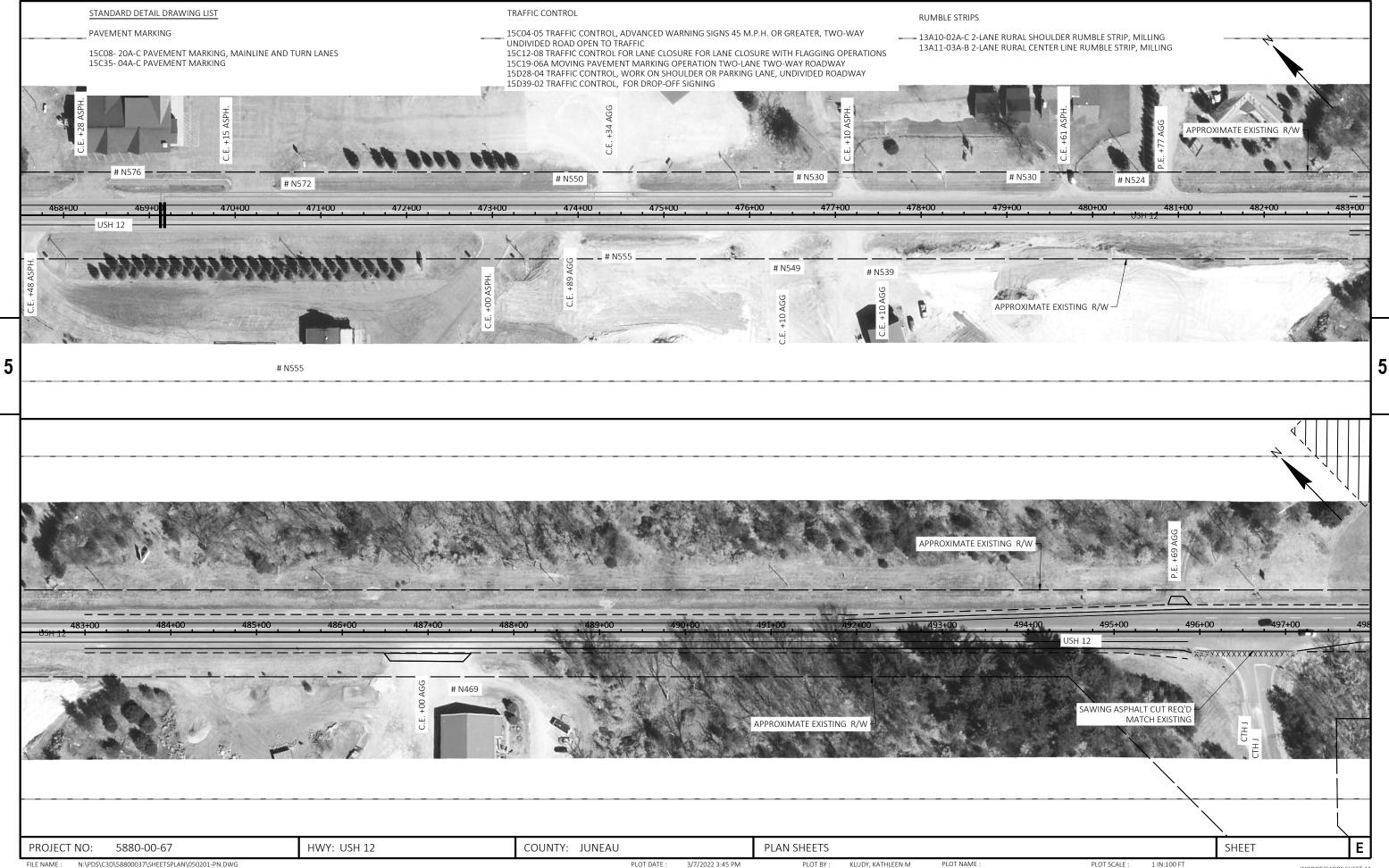


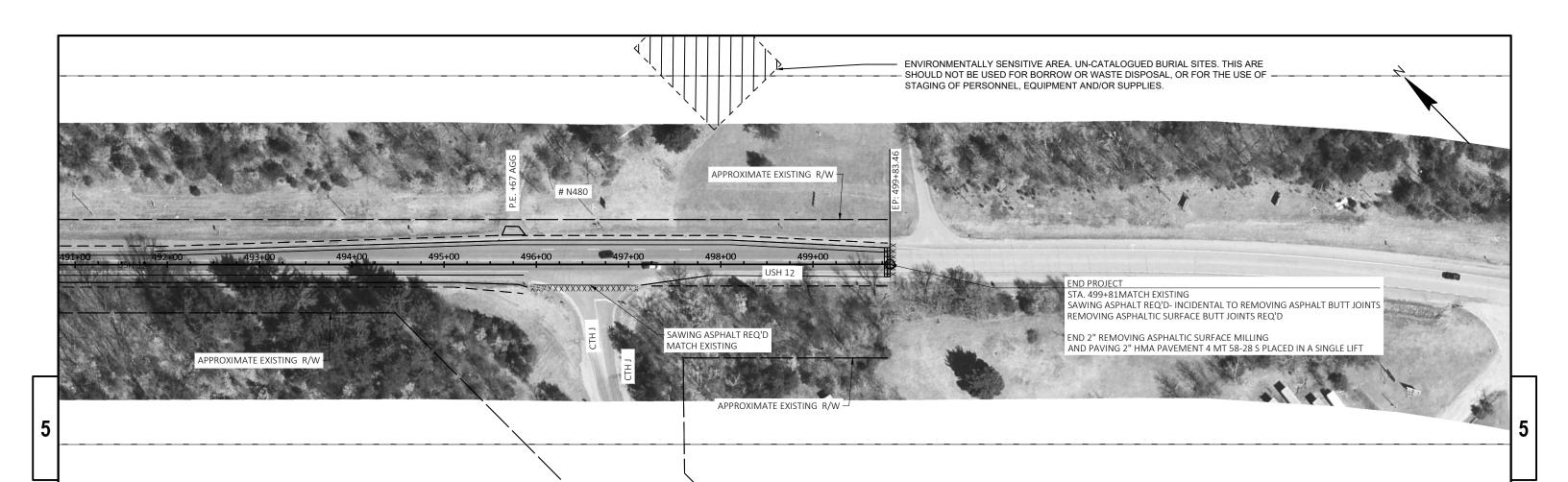


LAYOUT NAME - 050208-pn



N:\PDS\C3D\S8800037\SHEETSPLAN\050201-PN.DWG
PLOT DATE: 3/7/2022 3:45 PM
PLOT BY: KLUDY, KATHLEEN M PLOT NAME: PLOT SCALE: 1 IN:100 FT
USDOT/CADDS SHEET 44





STANDARD DETAIL DRAWING LIST

PAVEMENT MARKING

15C08-20A-C PAVEMENT MARKING, MAINLINE AND TURN LANES 15C35-04A-C PAVEMENT MARKING

TRAFFIC CONTROL

15C04-05 TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

15C12-08 TRAFFIC CONTROL FOR LANE CLOSURE FOR LANE CLOSURE WITH FLAGGING OPERATIONS 15C19-06A MOVING PAVEMENT MARKING OPERATIONS

15D28-04 TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

15D39-02 TRAFFIC CONTROL, FOR DROP-OFF SIGNING

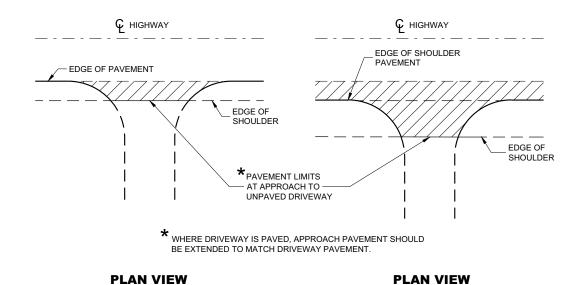
RUMBLE STRIPS

13A10-02A-C 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING 13A11-03A-B 2-LANE CENTERLINE RUMBLE STRIP, MILLING

HWY: USH 12 PROJECT NO: 5880-00-67 COUNTY: JUNEAU PLAN SHEETS SHEET N:\PD\$\C3D\58800037\SHEETSPLAN\050201-PN.DWG PLOT DATE : KLUDY, KATHLEEN M PLOT SCALE : 3/7/2022 3:45 PM 1 IN:100 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 050211-pn

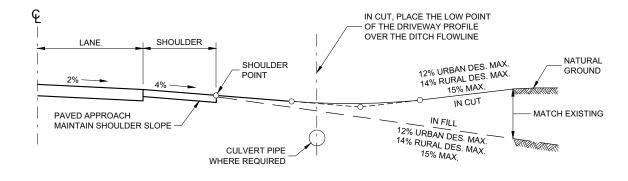
Standard Detail Drawing List

08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D21 01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15C35-04B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-04C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
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
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

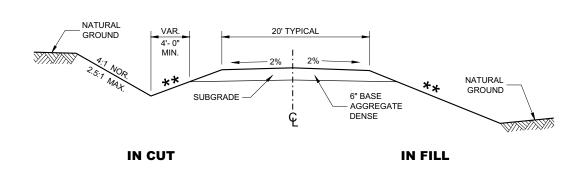


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)

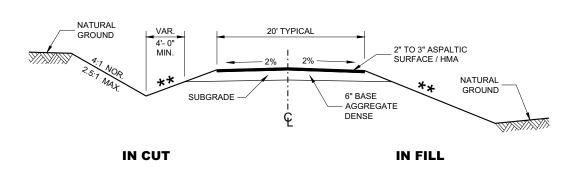


TYPICAL DRIVEWAY PROFILES



(UNPAVED SHOULDER ON HIGHWAY)

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2 POSTED SPEED MAX. SLOPE MPH <35 4:1 ≥ 35 TO < 60 6:1 10:1 ≥60



TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

TYPICAL CROSS SECTION FOR

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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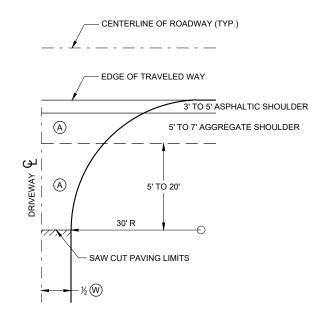
08D21

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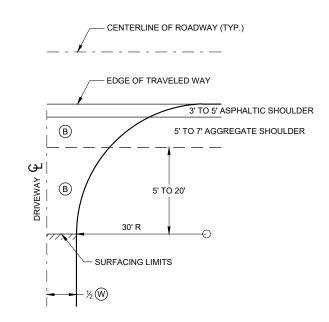
SDD 08D21

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December 2017 DATE

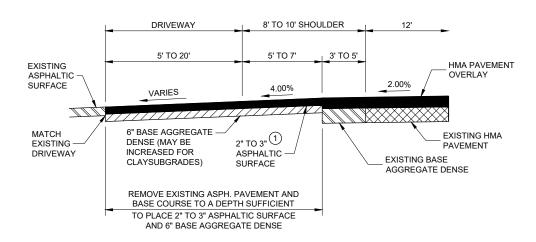


- (A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)
- ig(Big) : PAID FOR AS BASE AGGREGATE DENSE 1 $1\!\!\!/ _4$ " (TON)
- W): DRIVEWAY WIDTH 16' MIN. 24' MAX.

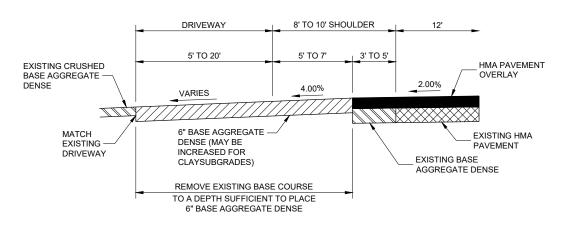


PLAN VIEW HALF SECTION





PROFILE VIEW
RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS



PROFILE VIEW
RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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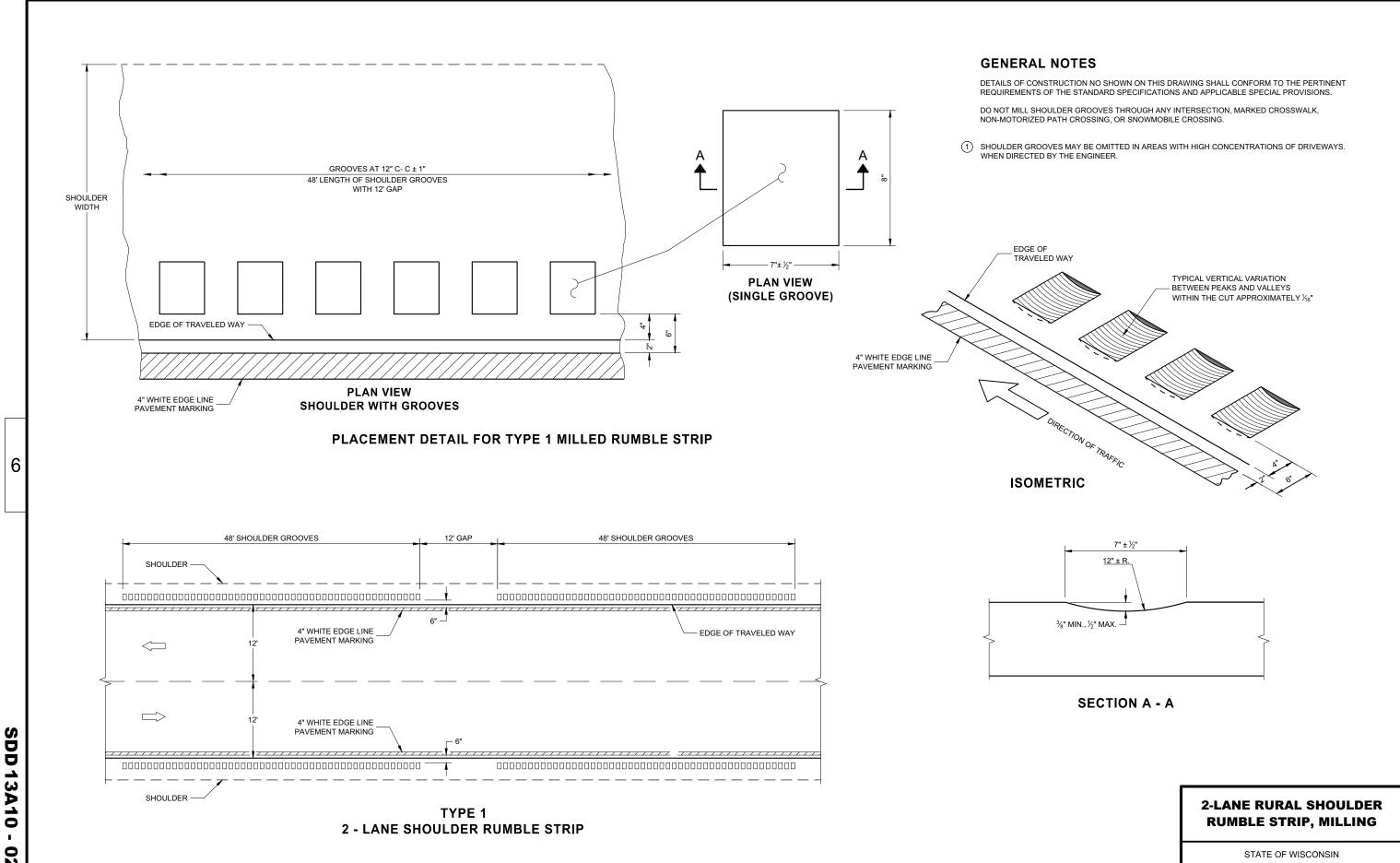
APPROVED

December 2016
DATE

ROADWAY STANDARDS DEVELOPMENT
ENGINEER

SDD 08D22 - 0

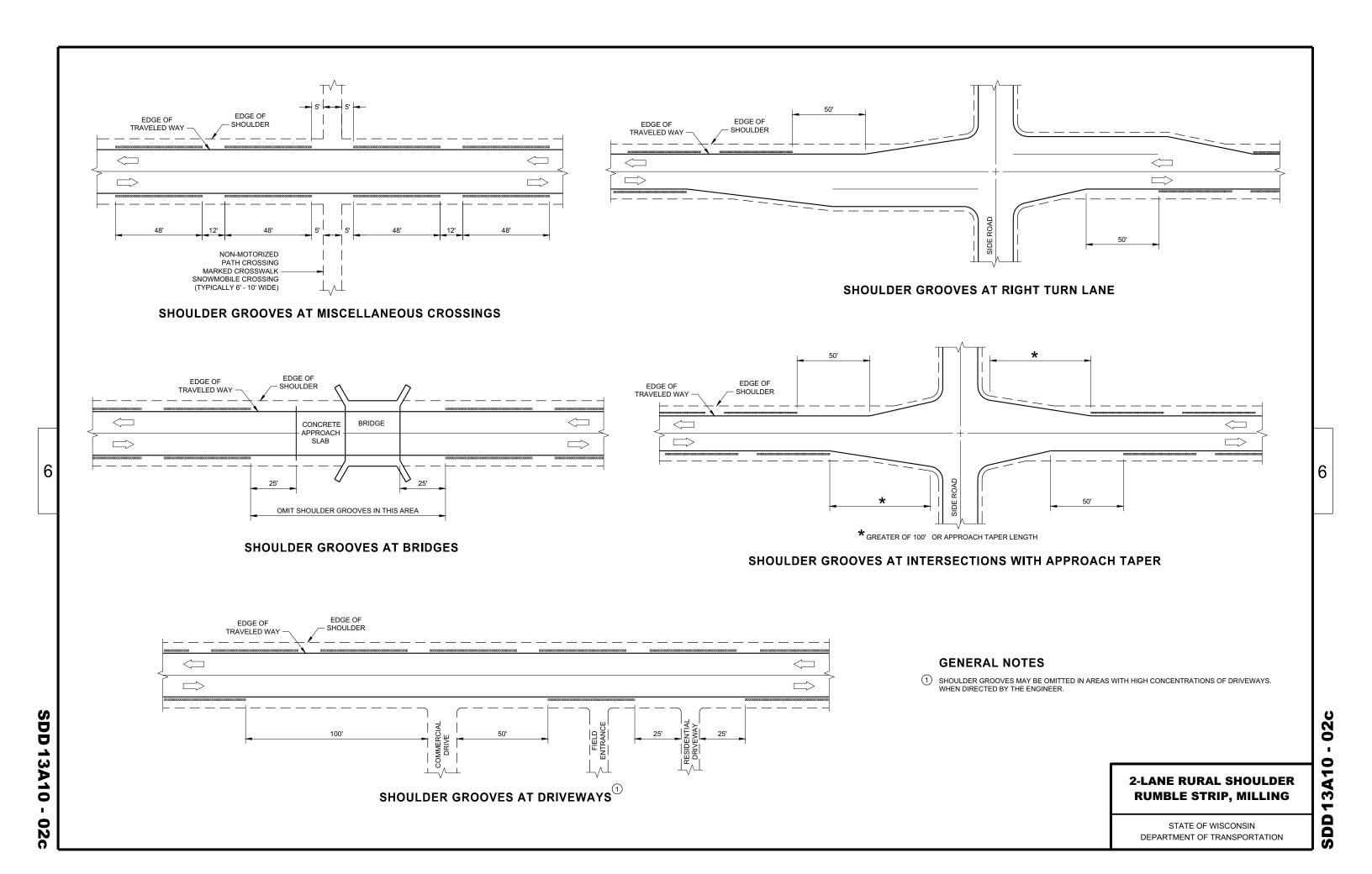
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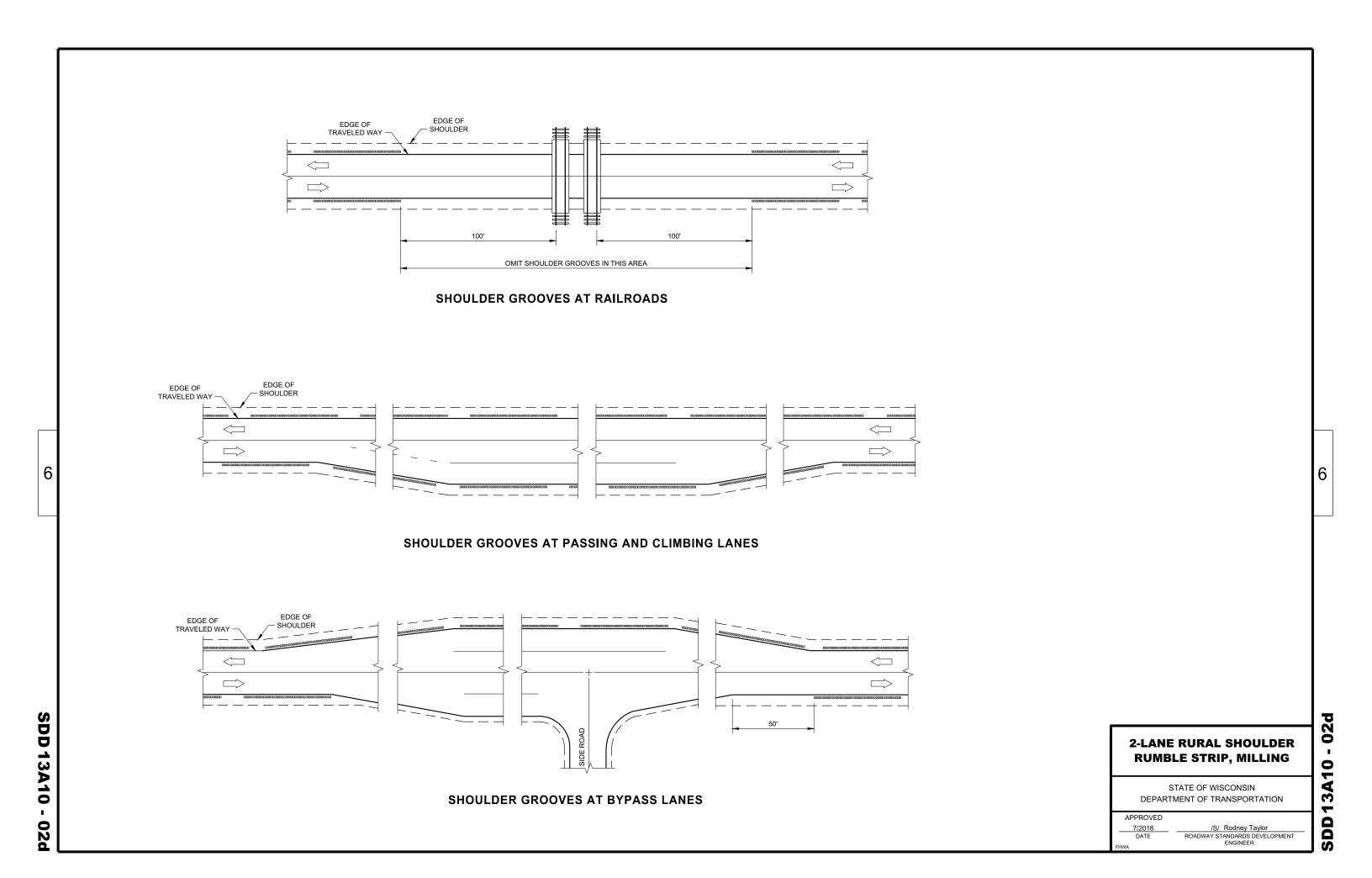


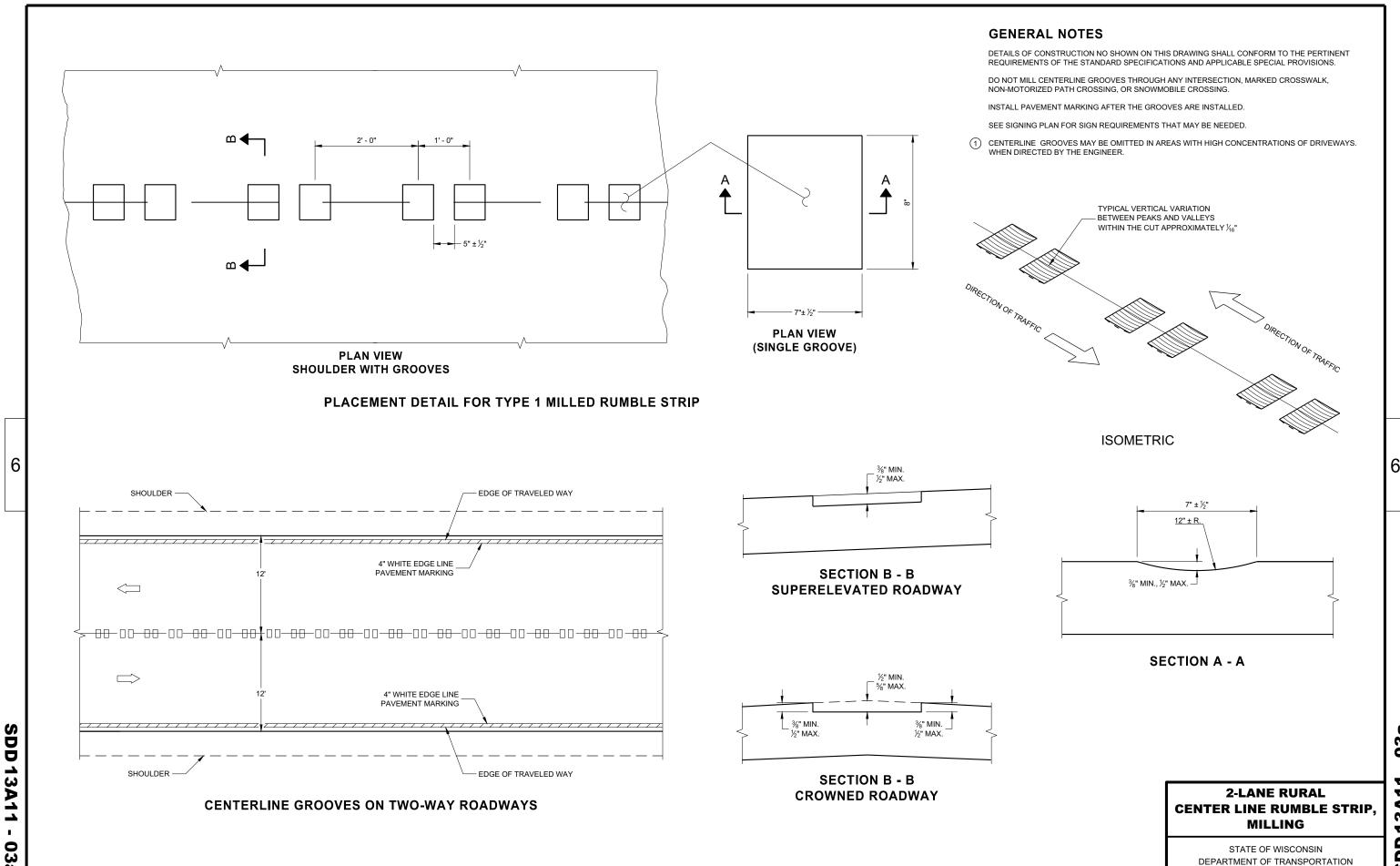
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DEPARTMENT OF TRANSPORTATION

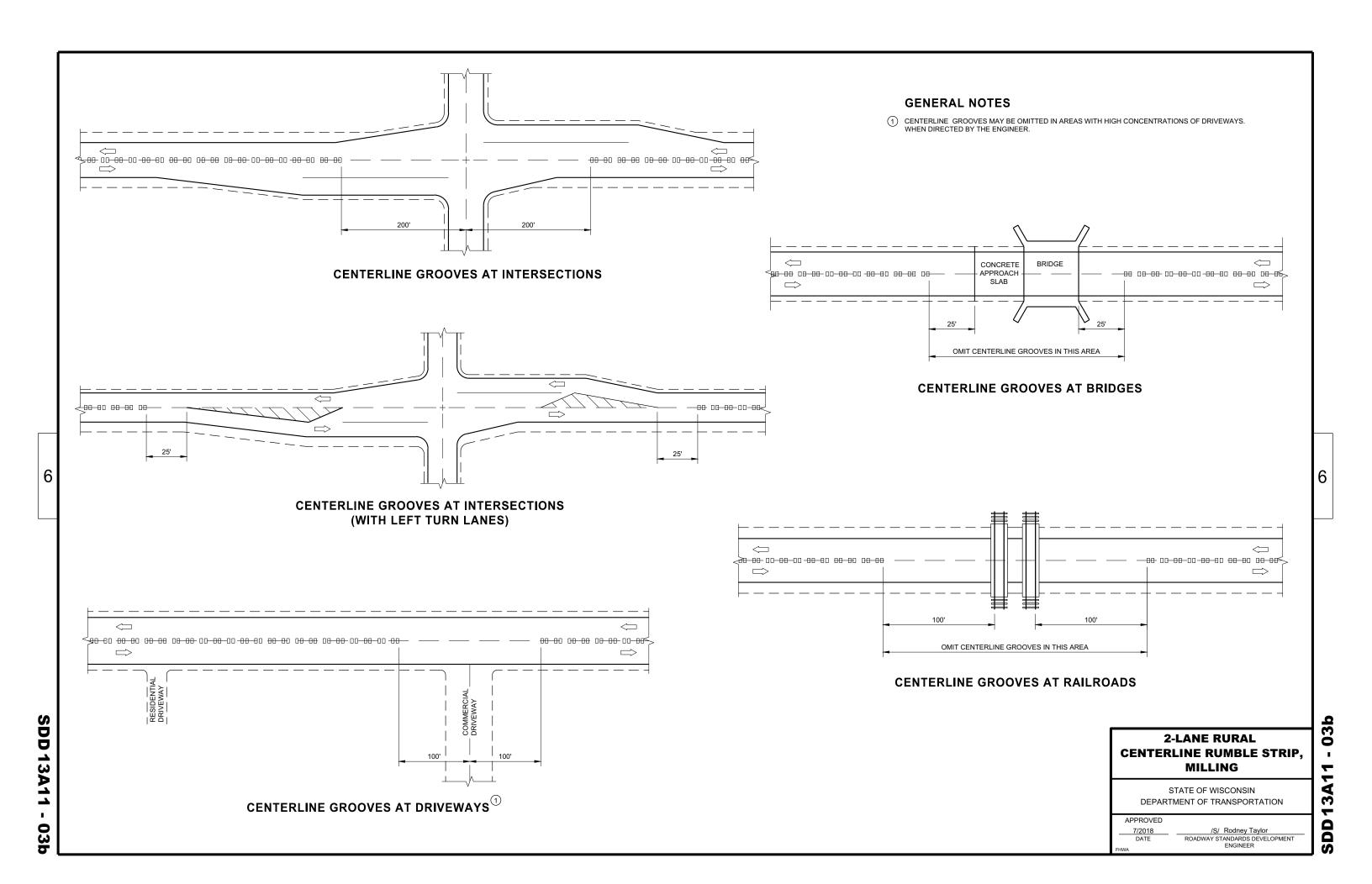
DEPARTMENT OF TRANSPORTATION

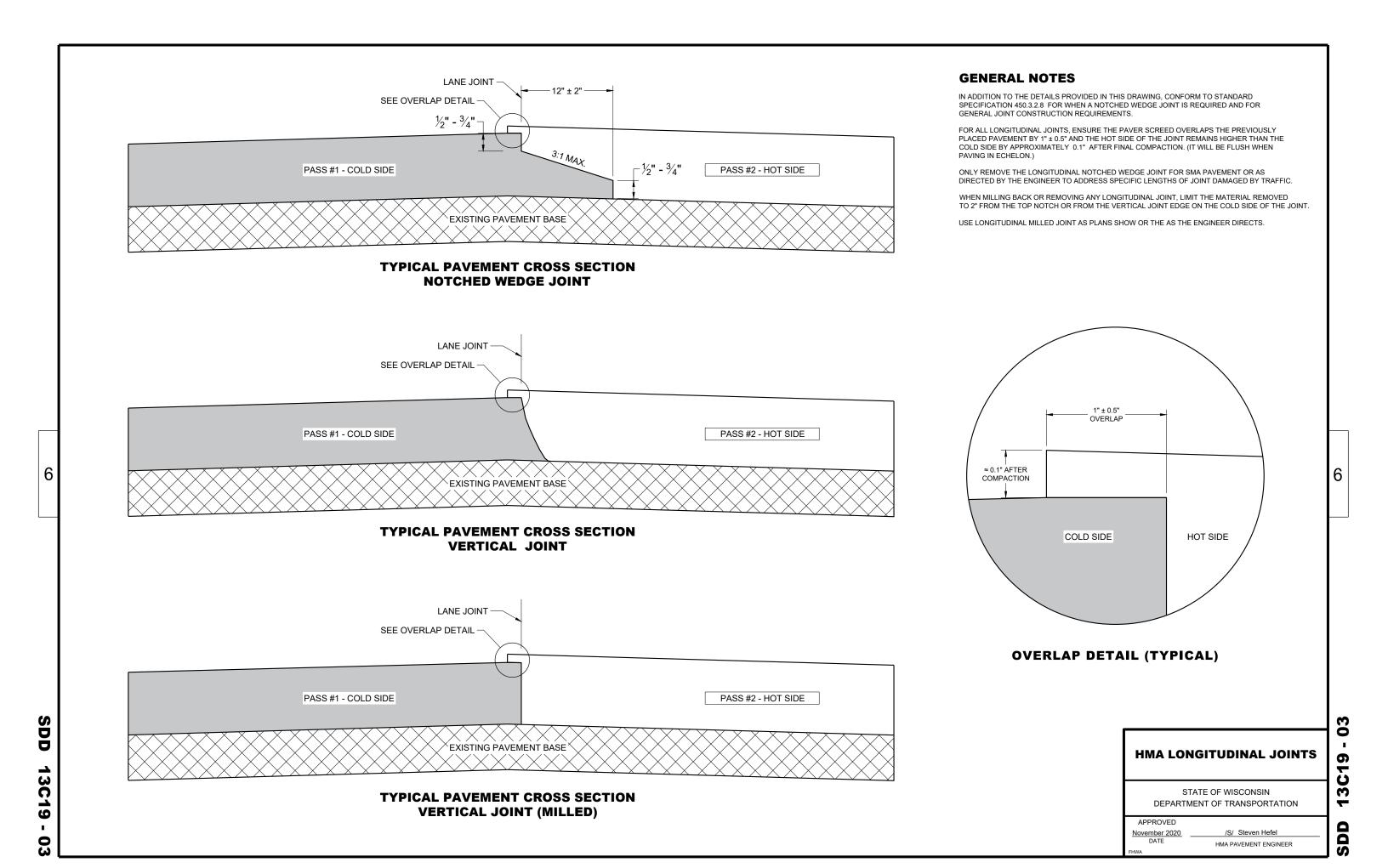


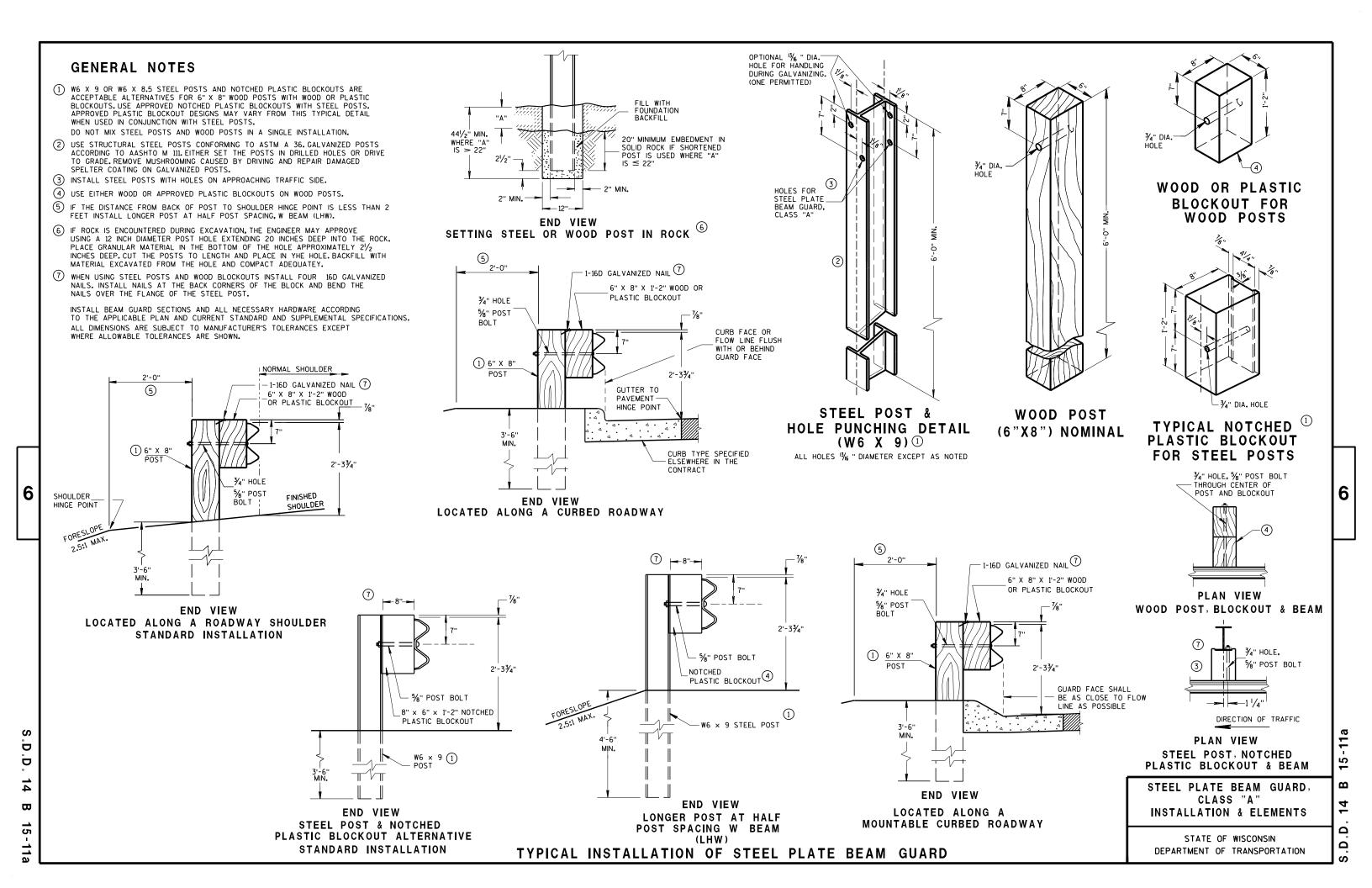




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FRONT VIEW

POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM

3'-1¹/₂" C-C

SPACING

3'-1¹/₂" C-C

POST

SPACING

DIRECTION OF

3'-11/2" C-C

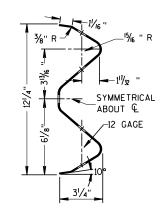
SPACING

3'-11/2" C-C

SPACING

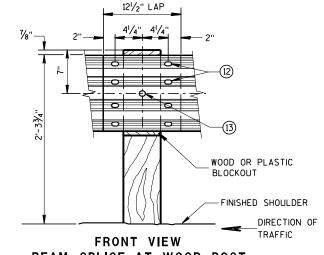
FINISHED

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN), USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



SECTION THRU W BEAM

 $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT



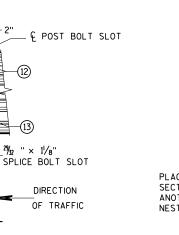
BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

121/2" LAP

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA, START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (13) 5%" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5%" DIA. F844 FLAT WASHER UNDER NUT.



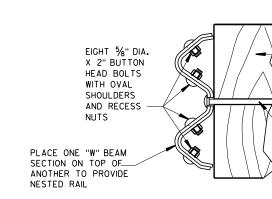
FRONT VIEW BEAM SPLICE AT STEEL POST

NOTCHED

PLASTIC

BLCKOUT

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



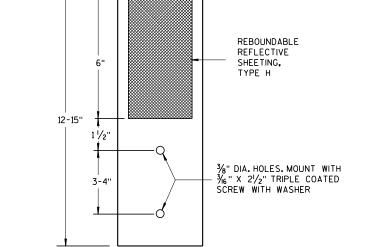
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

SHOULDER TRAFFIC FRONT VIEW POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

GUARDRAIL REFLECTOR 9 DIRECTION OF TRAFFIC

4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



3-4"-

2%2 " × 11/8"

4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", **INSTALLATION & ELEMENTS**

6" X 8" X 1'-2" WOOD OR PLASTIC

BLOCKOUT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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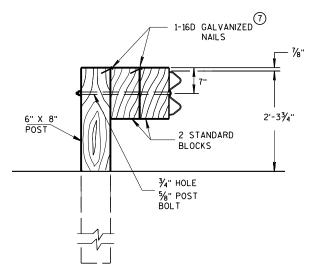
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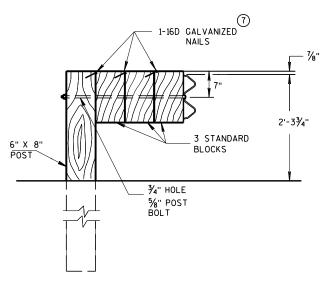
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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

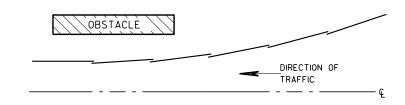


DETAIL FOR TRIPLE BLOCKS

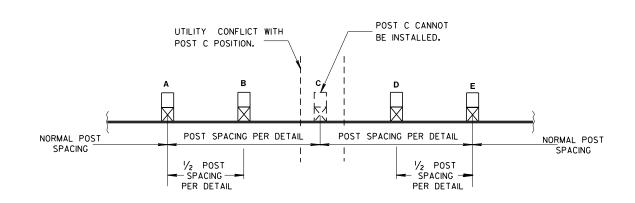
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

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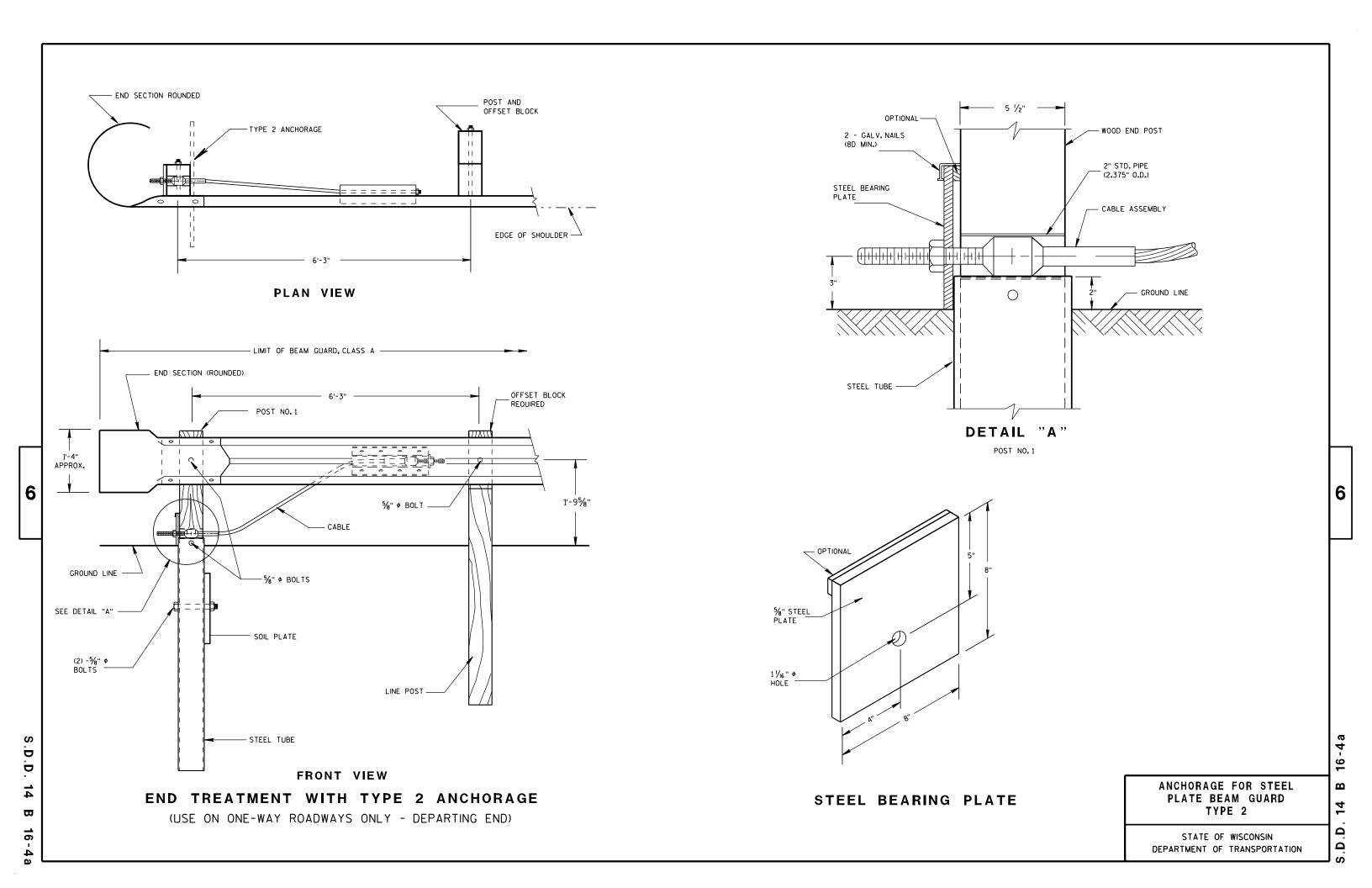
/S/ Rodney Taylor

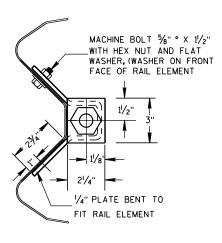
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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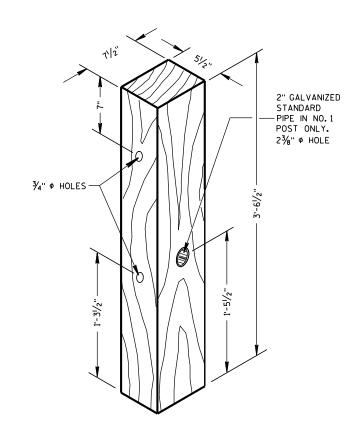




FRONT VIEW

END VIEW

ANCHOR PLATE DETAIL



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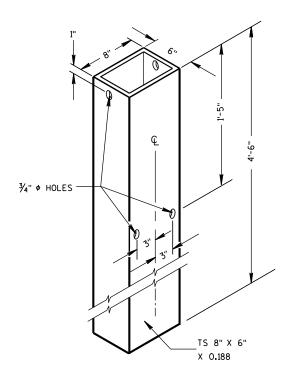
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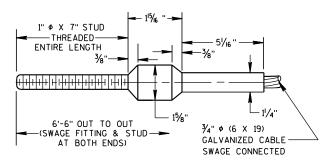
WOOD BREAKAWAY POST



STEEL TUBE

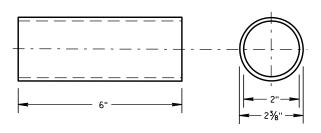
STEEL TUBE SHALL CONFORM TO REQUIREMENTS OF ASTM A500

END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP A MINIMUM BREAKING STRENGTH OF 40,000 LB (TIGHTEN UNTIL TAUT)



BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"

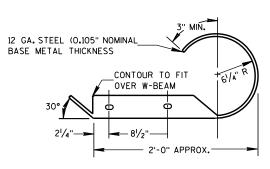
GENERAL NOTES

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

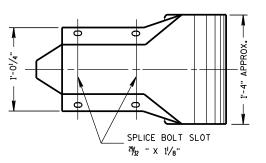
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO.1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

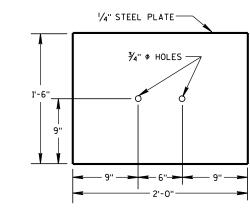
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW



FRONT VIEW W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

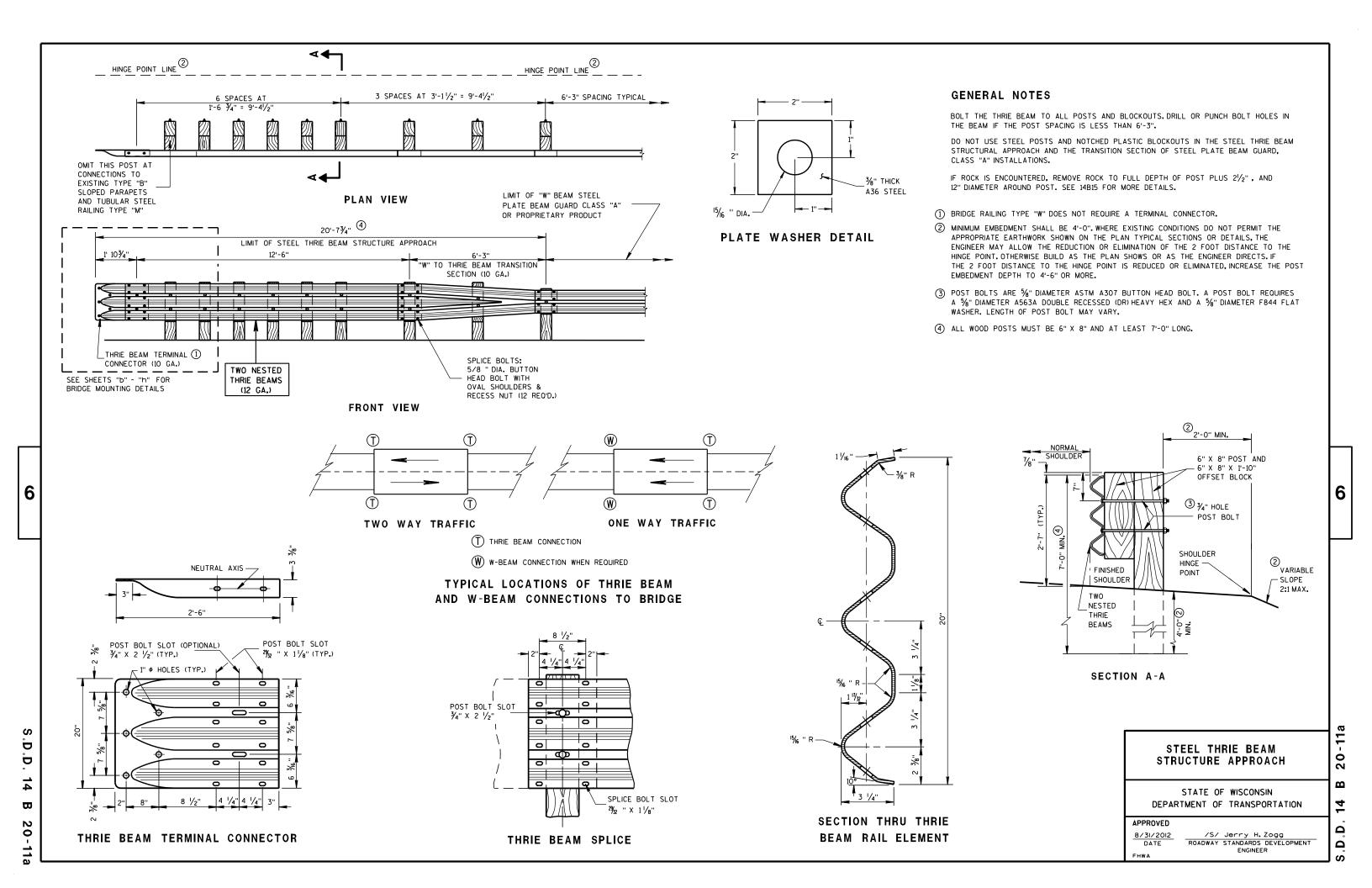
APPROVED

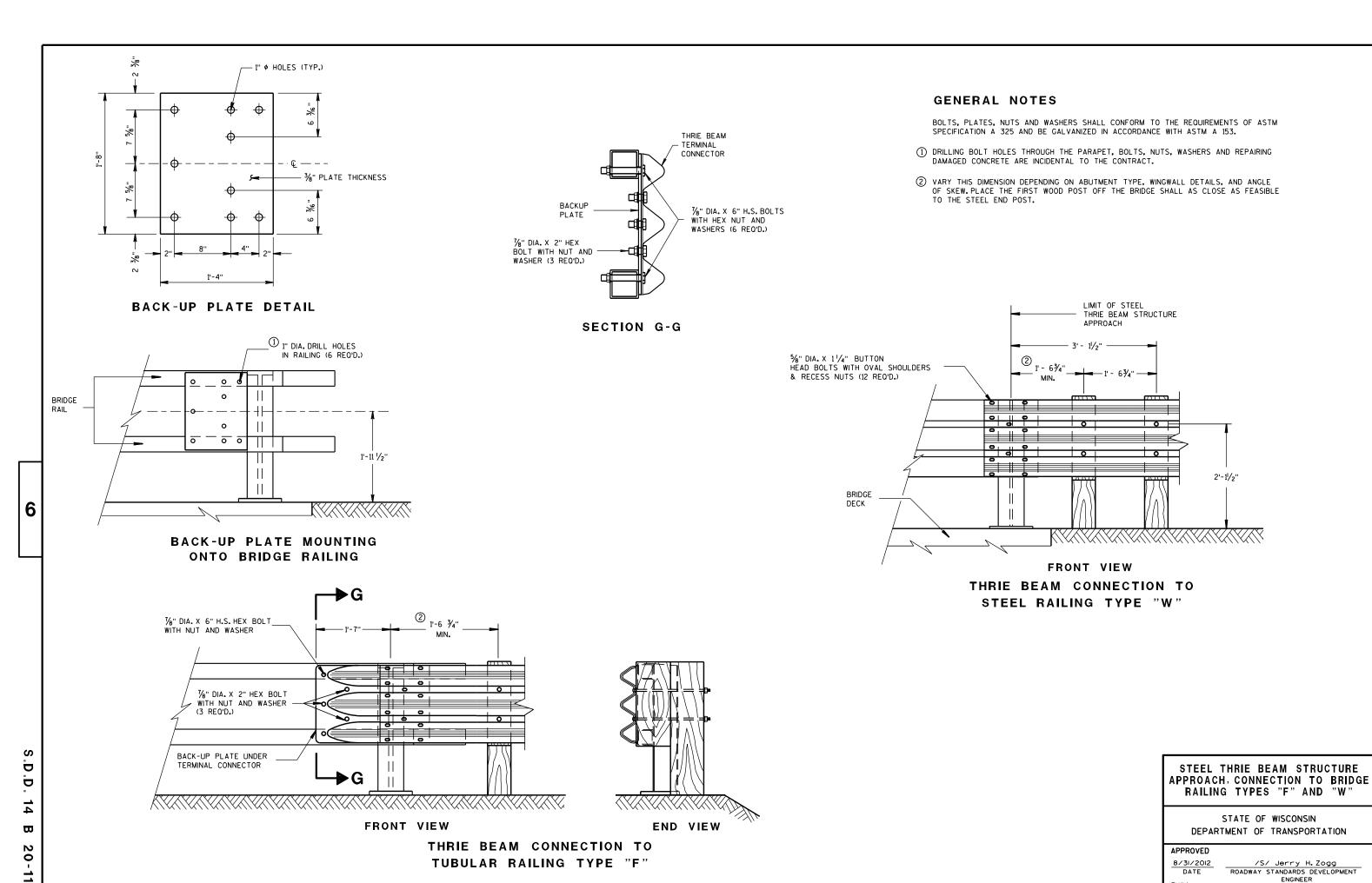
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 8/21/2007

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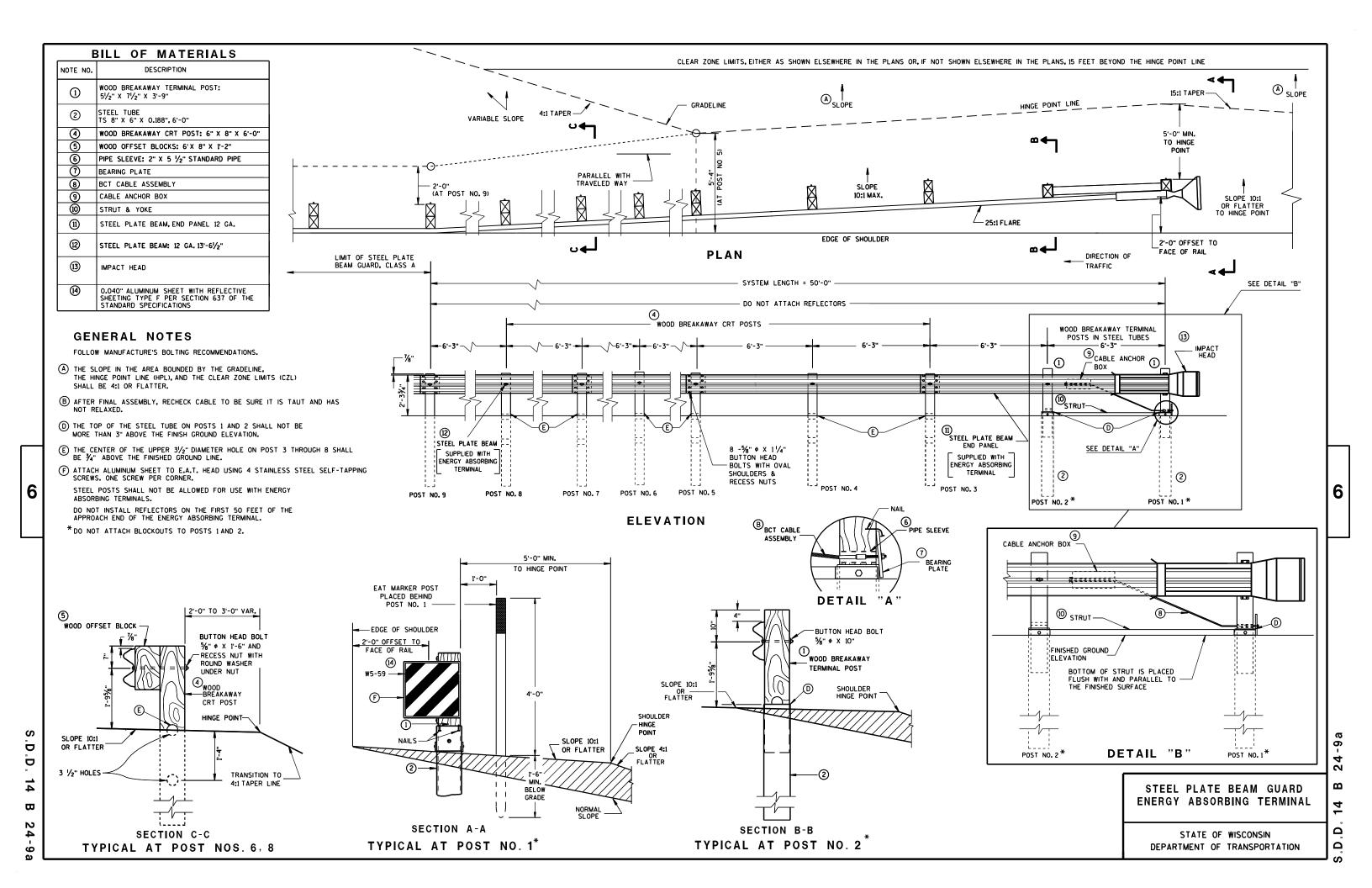


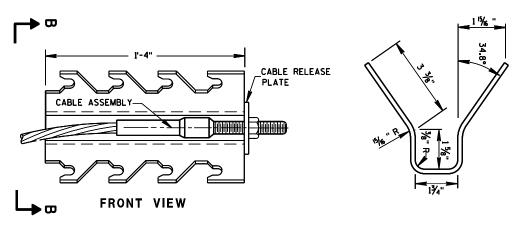
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ENGINEER

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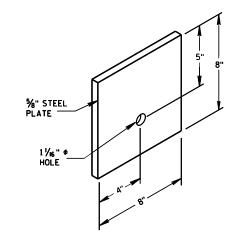
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SECTION B-B

(9) CABLE ANCHOR BOX



[⊙]STEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

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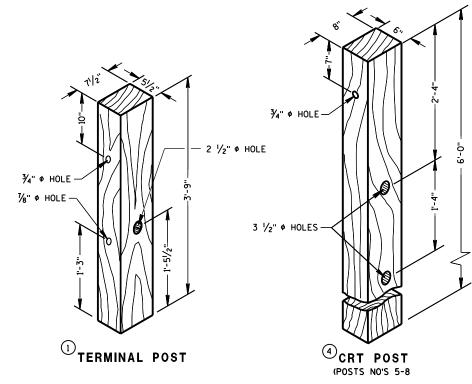
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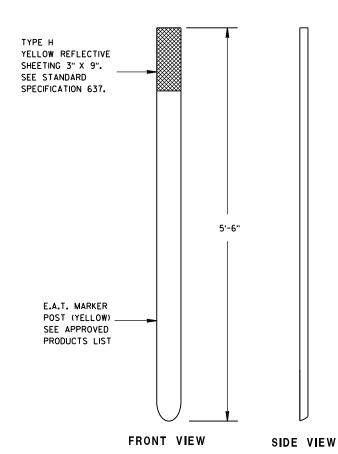
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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(4) REFLECTIVE SHEETING DETAILS



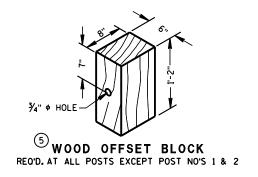
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



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STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

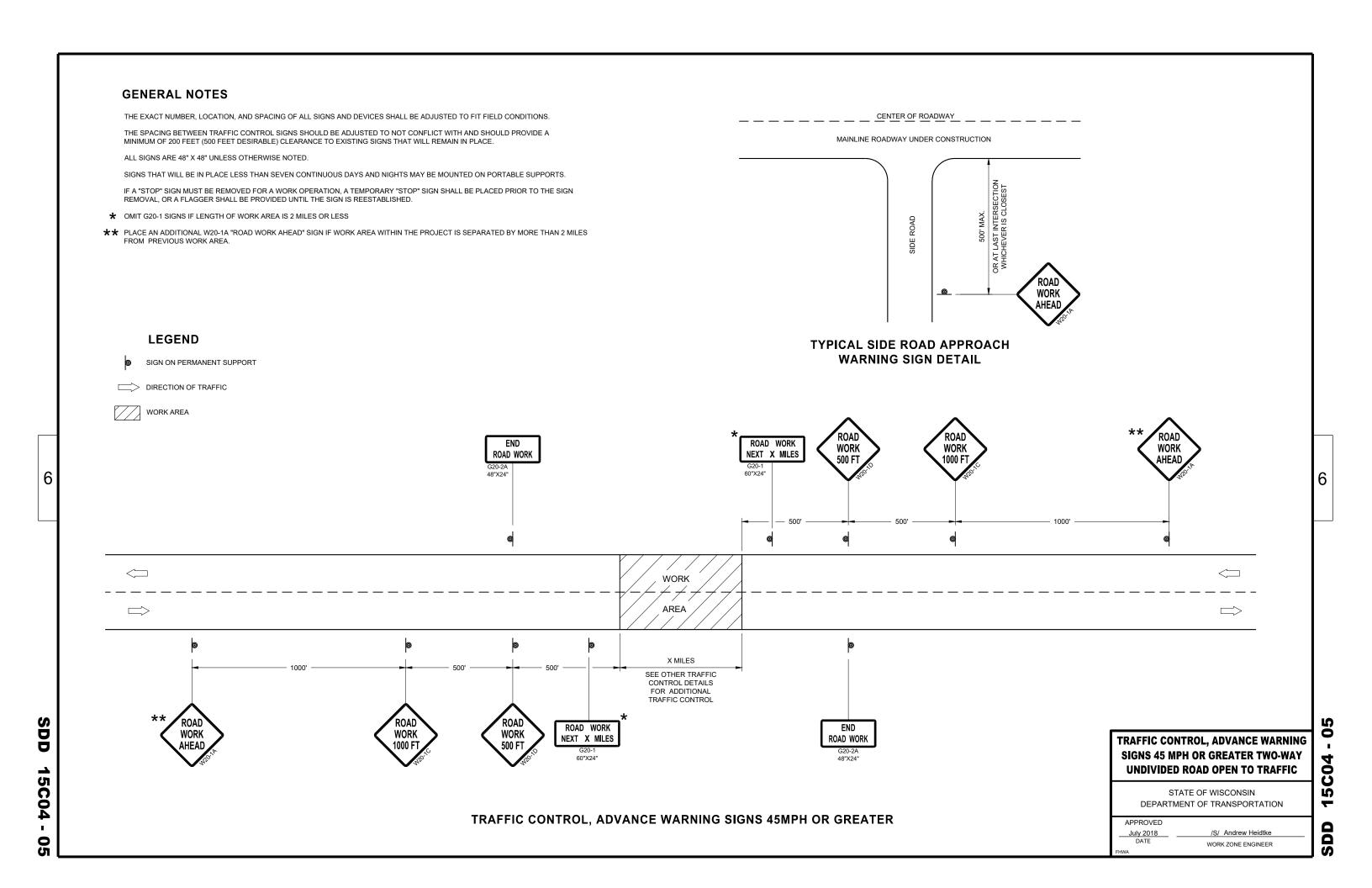
APPROVED June 2017

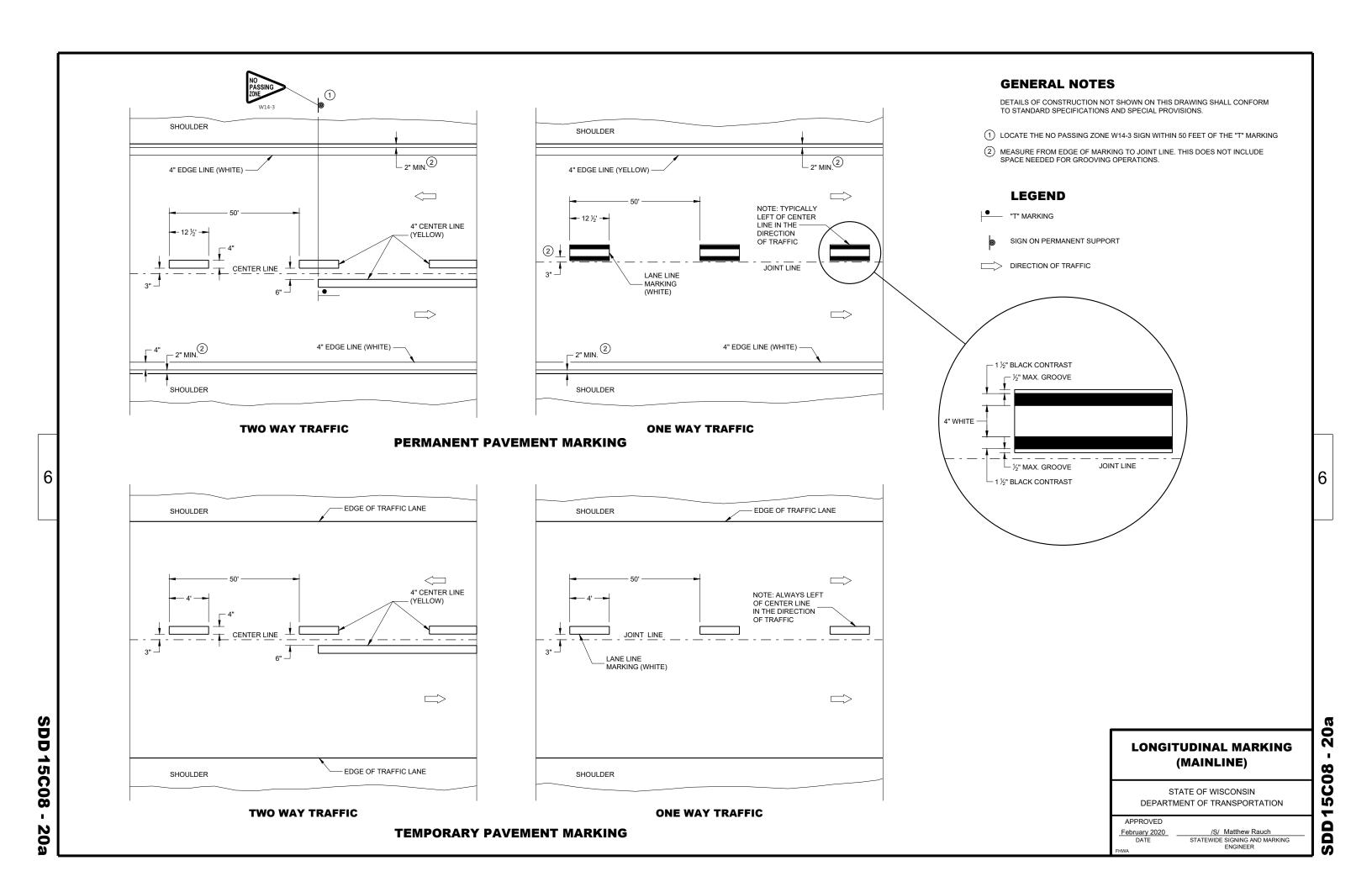
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

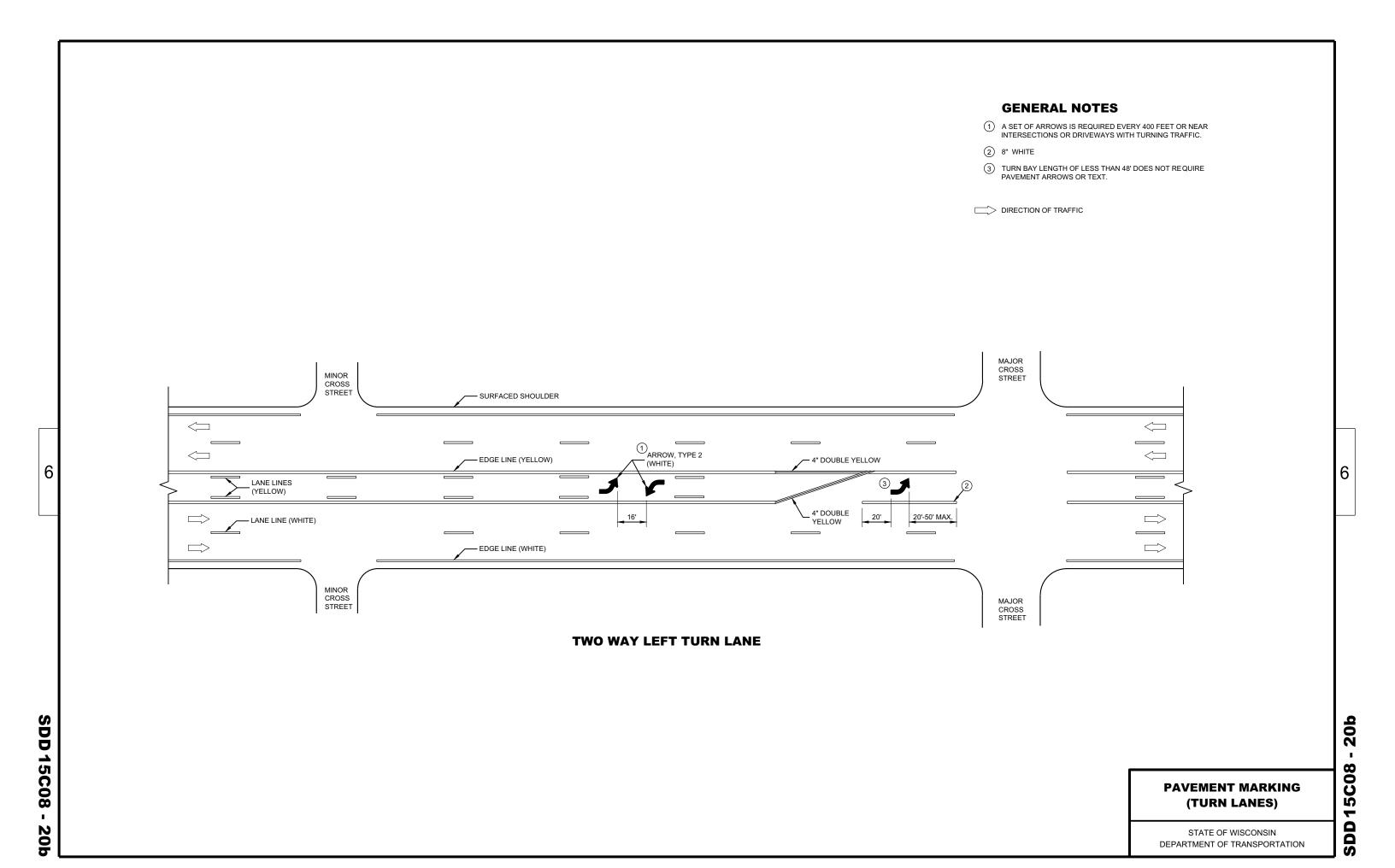
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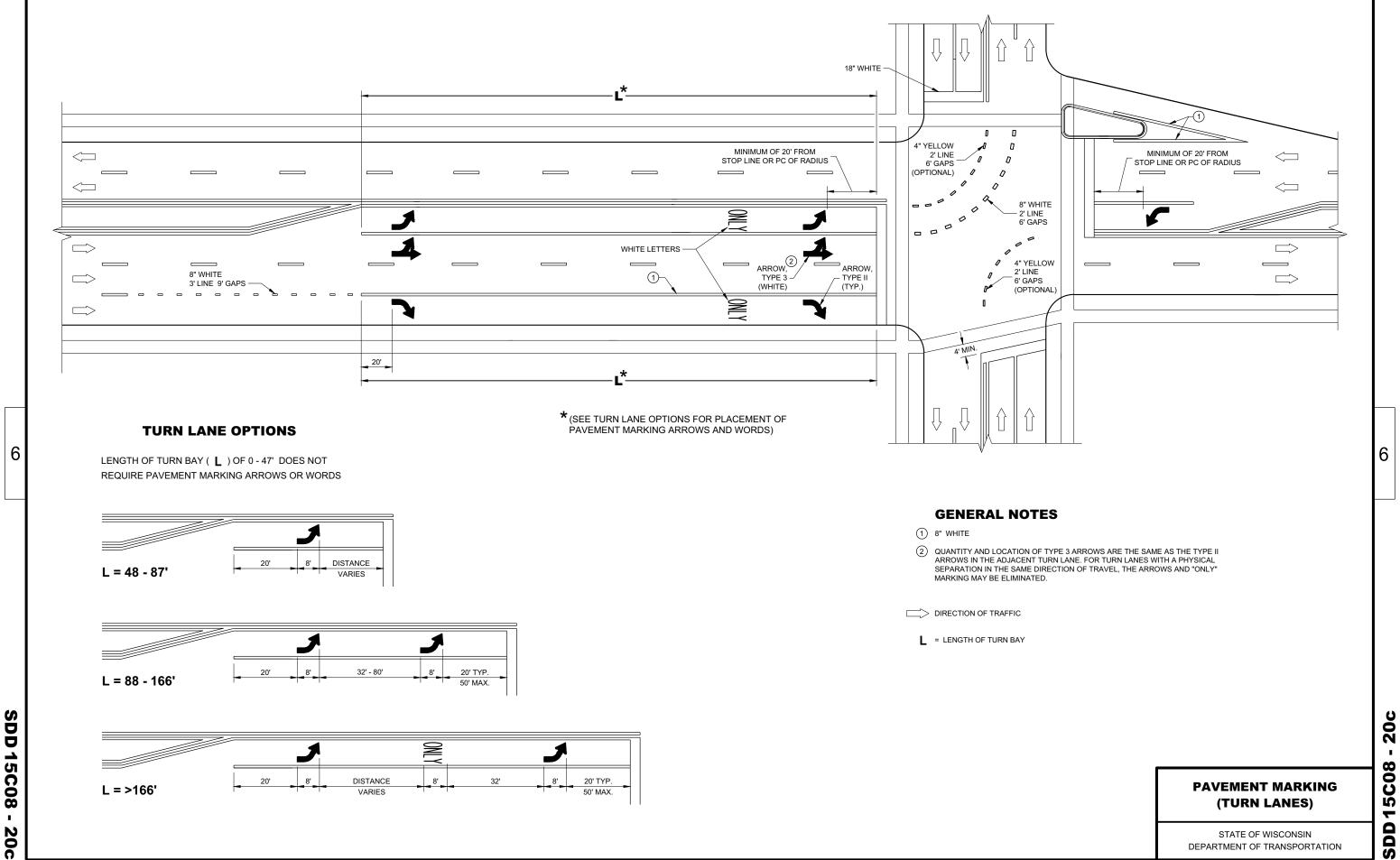
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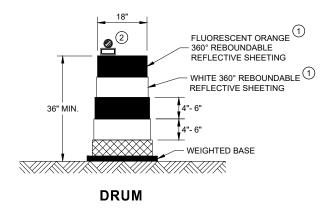


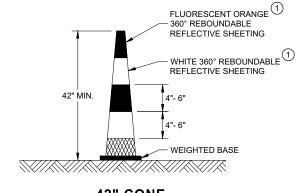
DEPARTMENT OF TRANSPORTATION

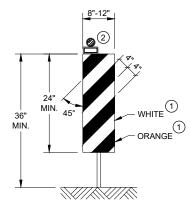
<u>60</u> 15C

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.



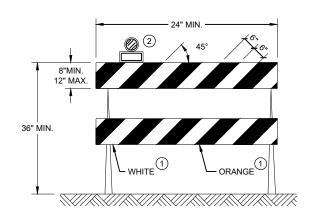




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

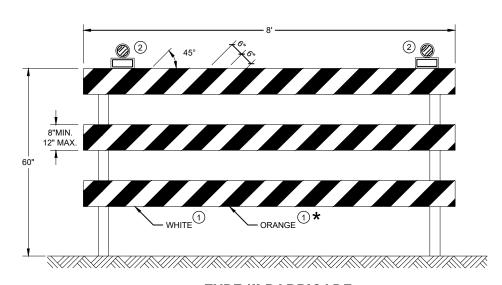
VERTICAL PANEL

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

GENERAL NOTES DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. TEMPORARY PORTABLE RUMBLE "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM 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.

ROAD

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STRIPS

WORK



RUMBLE

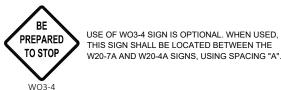
STRIPS

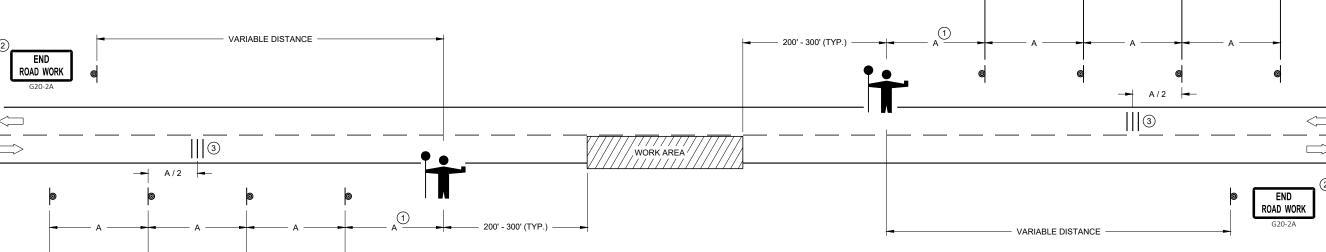
ROAD

WORK

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'





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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

November 2021 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

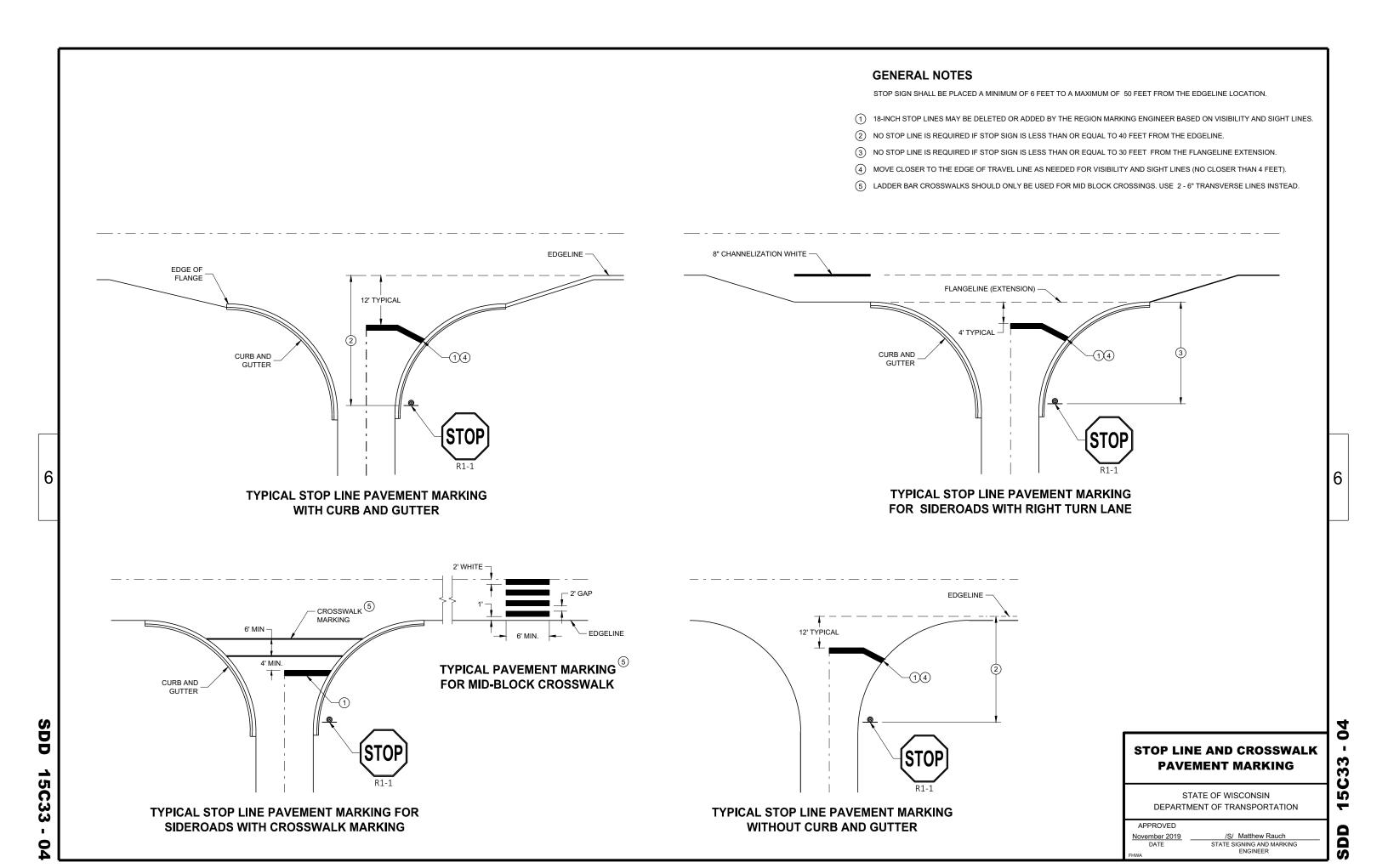
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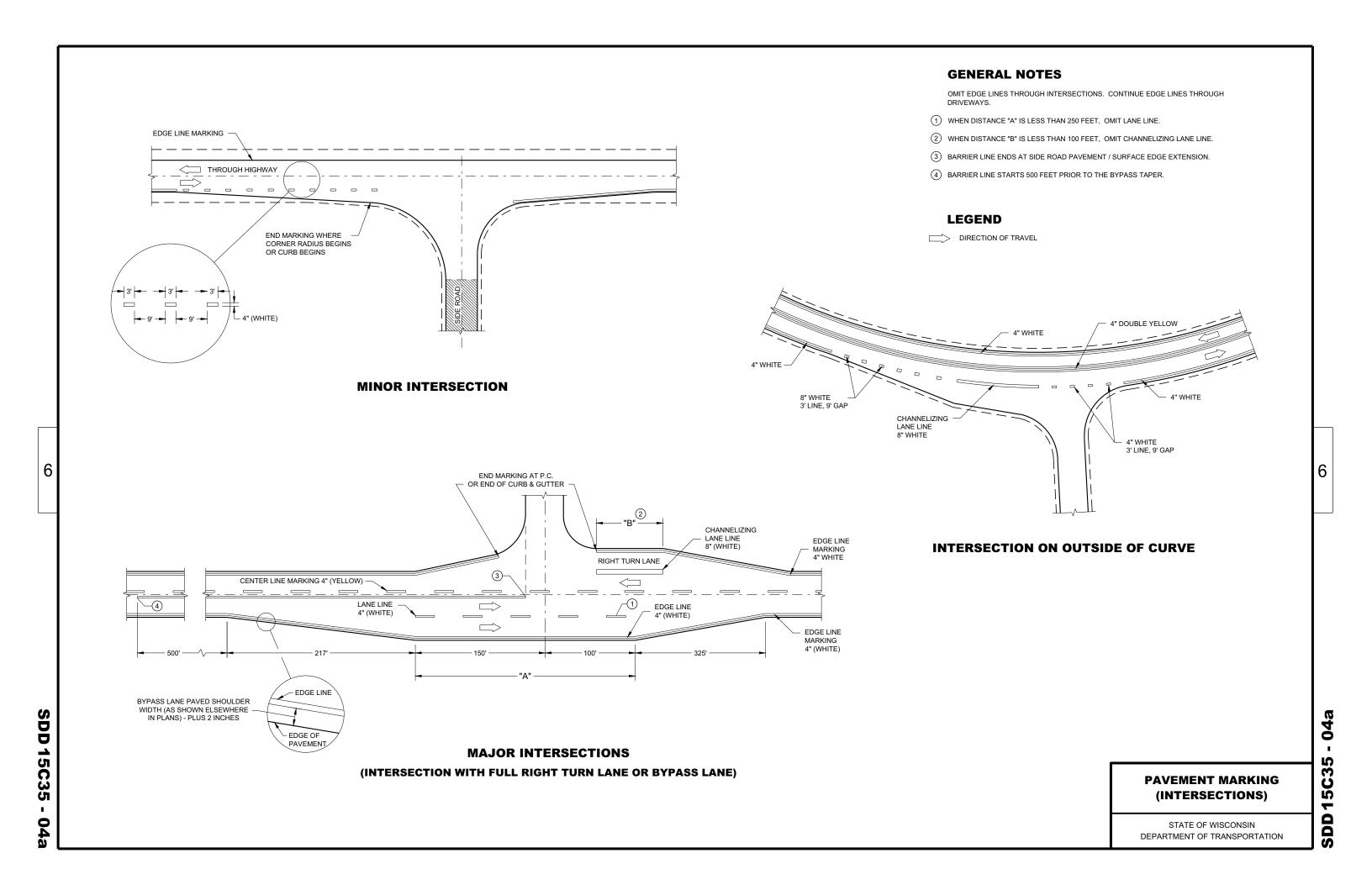
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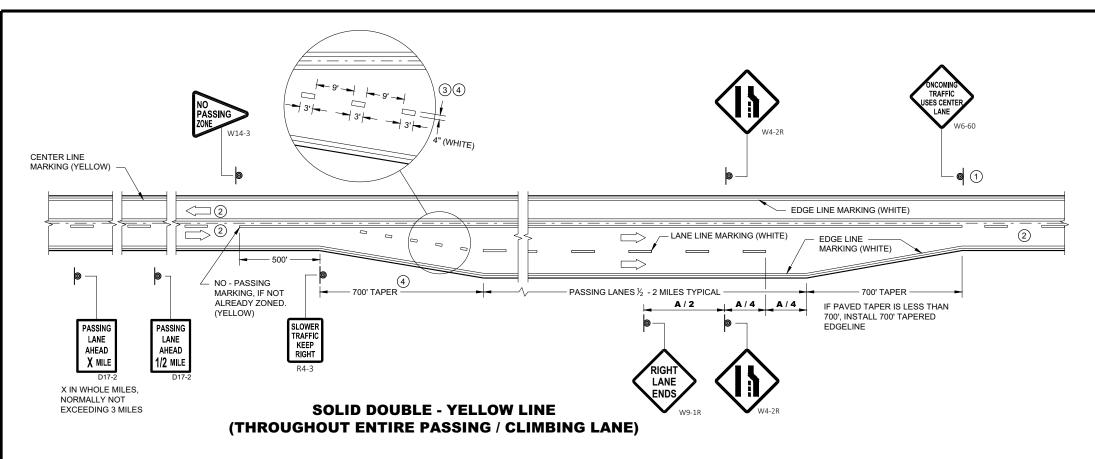


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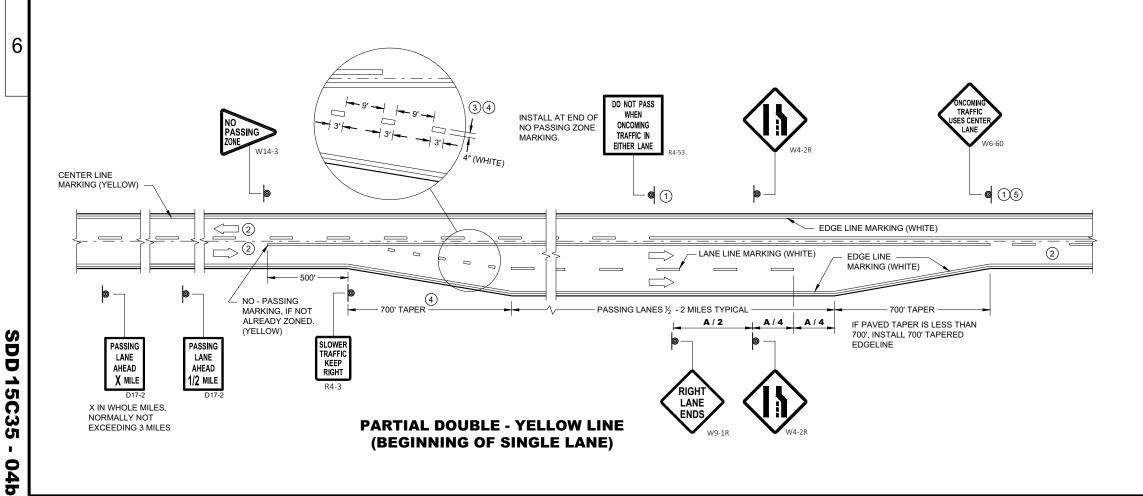
GENERAL NOTES

- \bigodot SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- (5) REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

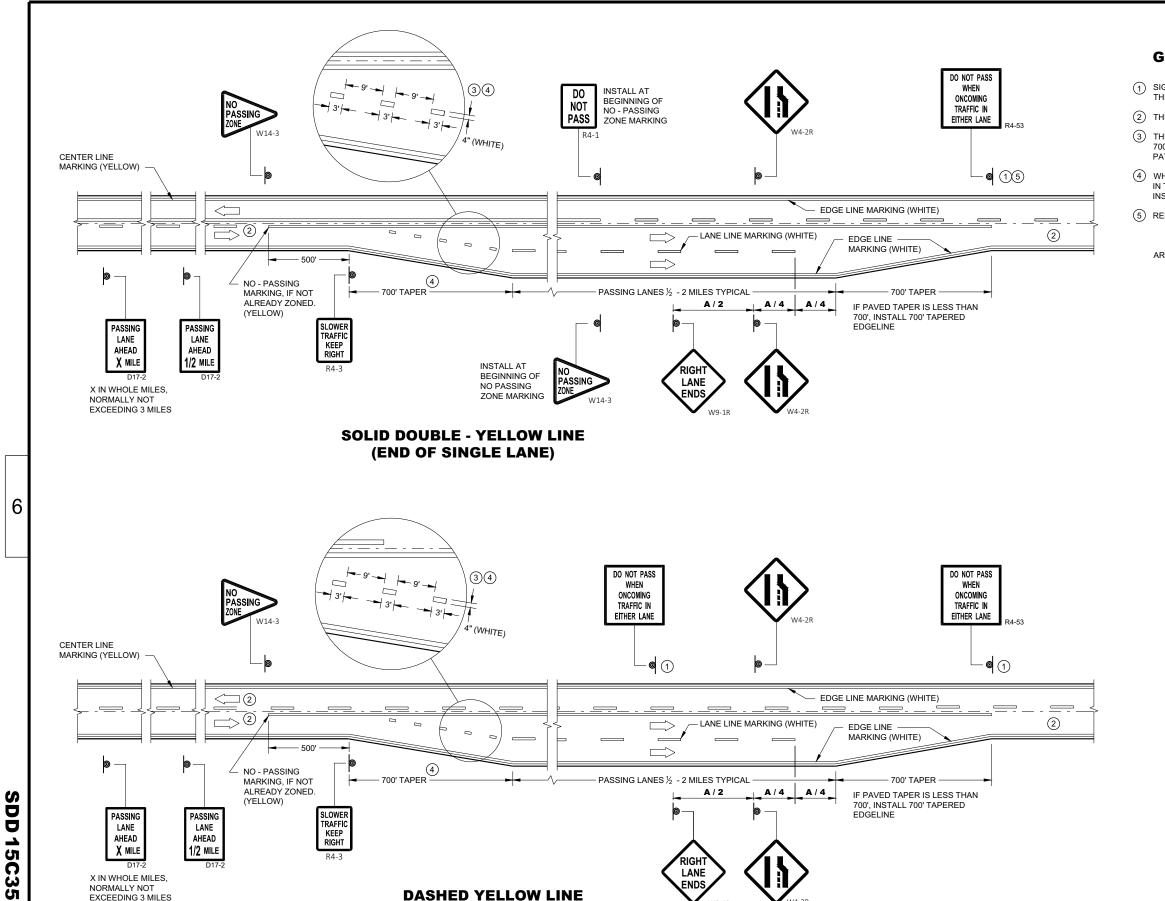
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"	
45	775	
50	885	
55	990	



PAVEMENT MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



DASHED YELLOW LINE

(THROUGHOUT SINGLE LANE)

EXCEEDING 3 MILES

04c

GENERAL NOTES

- (1) SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- (2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- (5) REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

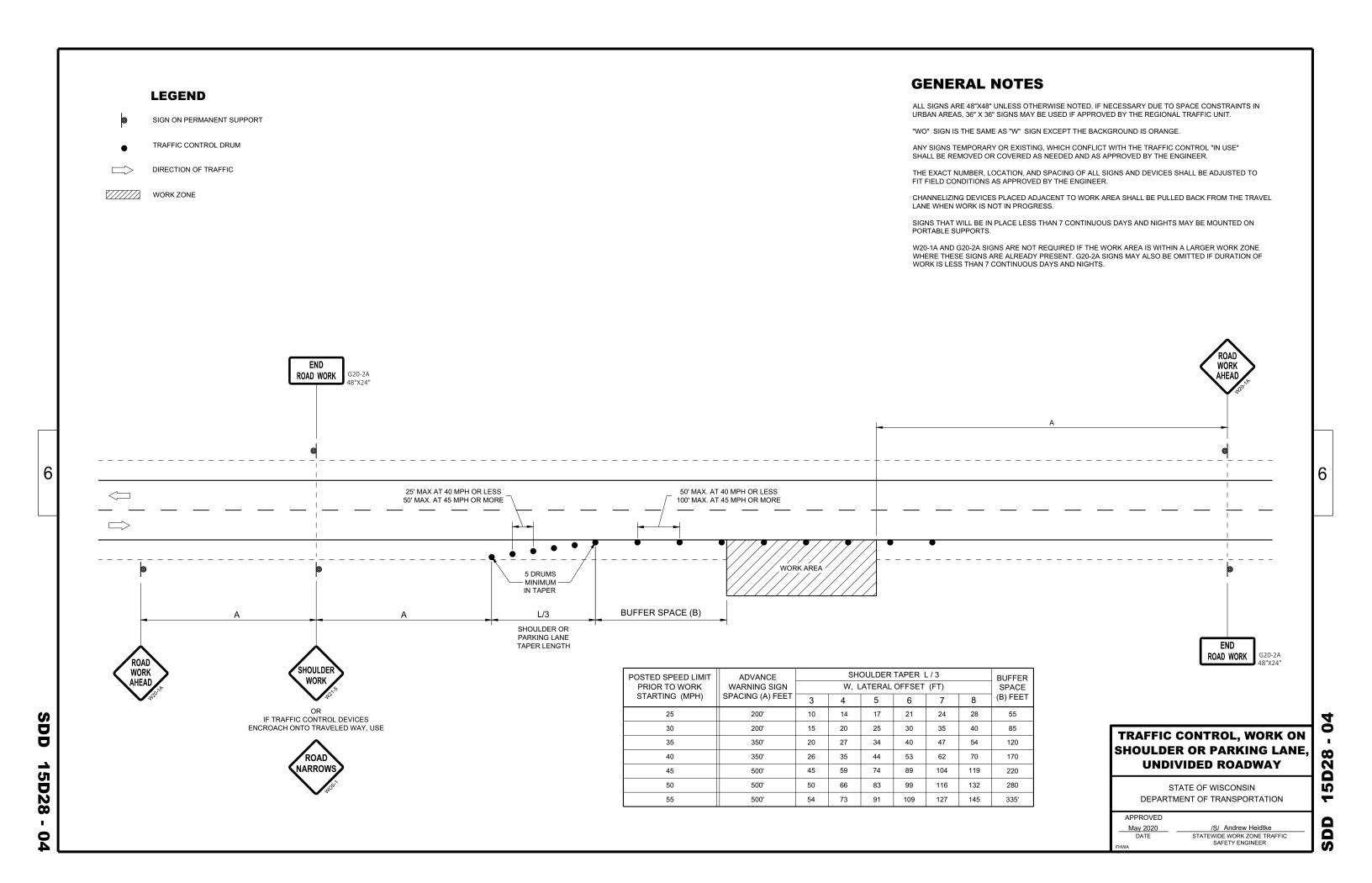
PAVEMNET MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

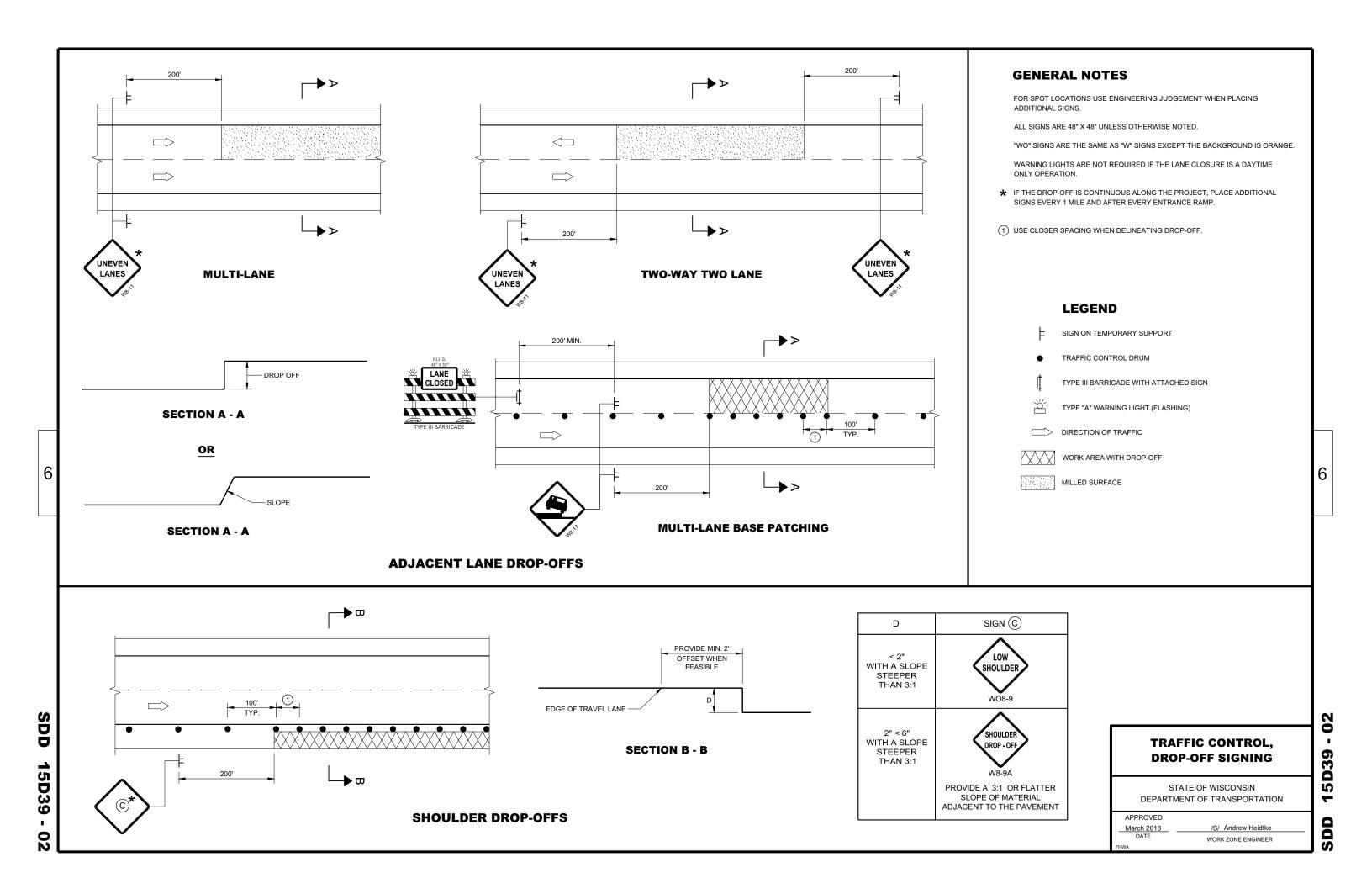
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2019 DATE

/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER

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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 LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

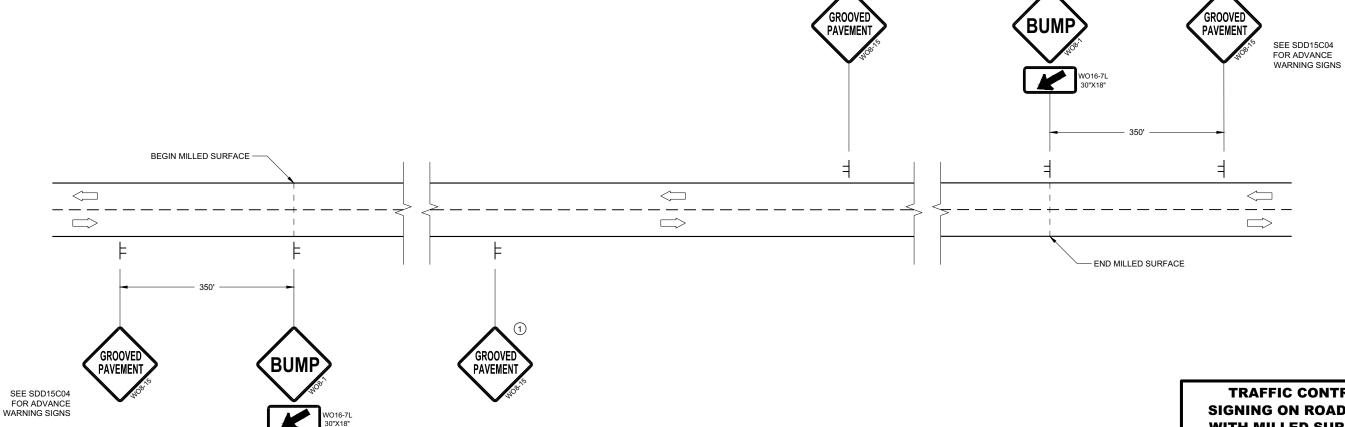
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

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



DETAIL FOR SIGNING ON MILLED SURFACES

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

 $\perp \!\!\! \perp$

TYPICAL SIDE ROAD APPROACH SIGN DETAIL

PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

Ò S 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.

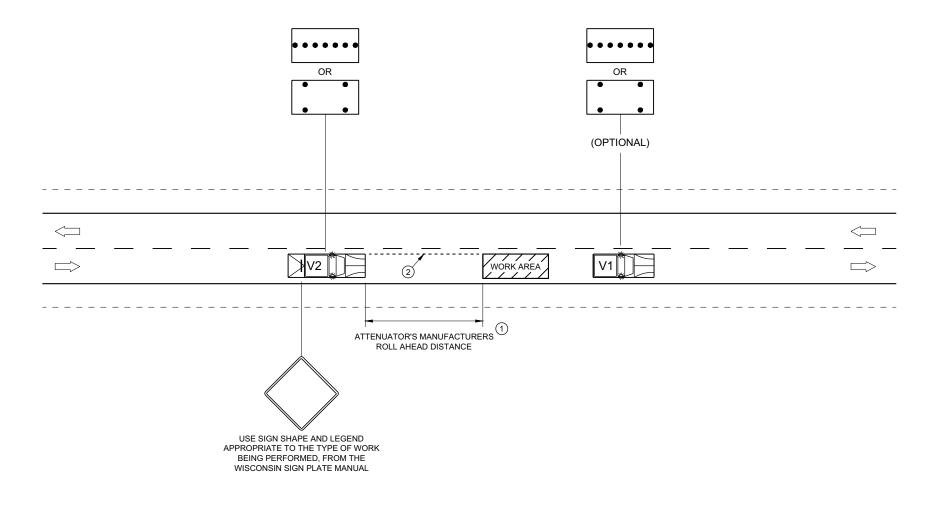
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

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 ARROW PANEL.

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

APPROVED

February 2021
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

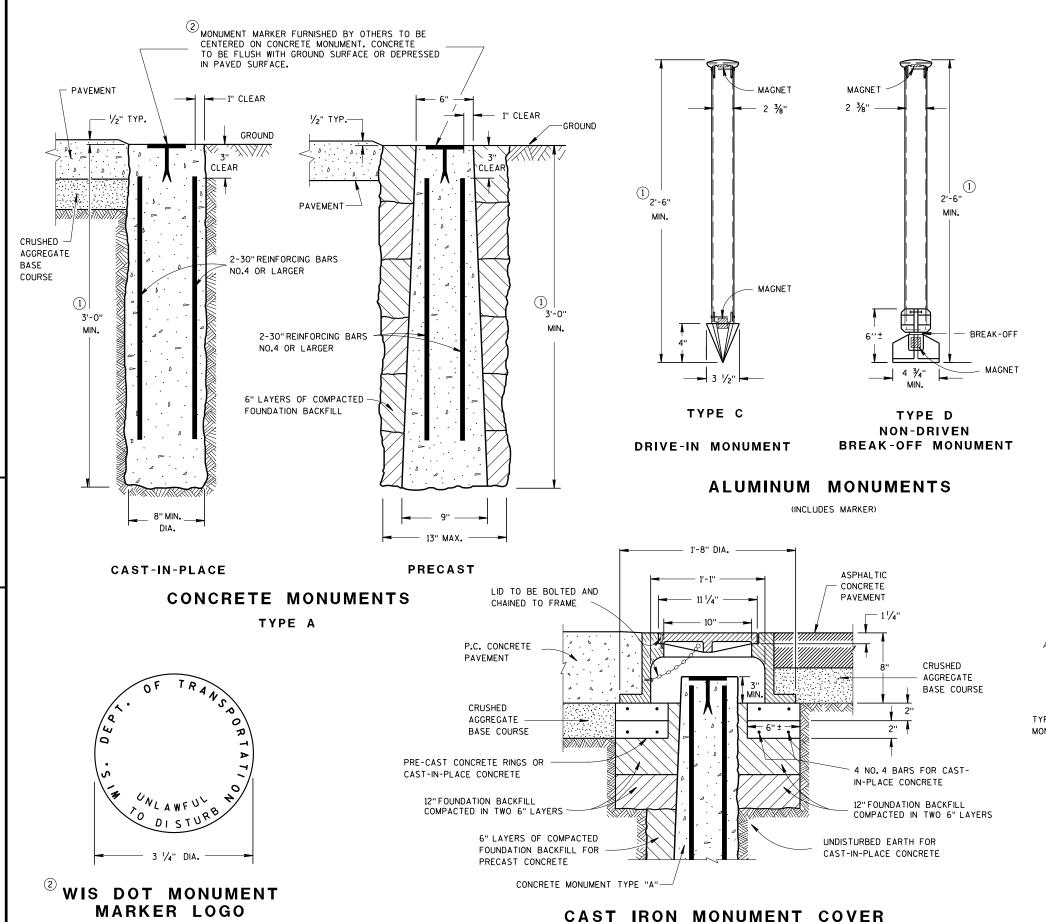
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300 130

WISCO TRANS /S/ And EWIDE WO SAFETY



(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

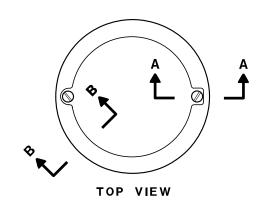
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

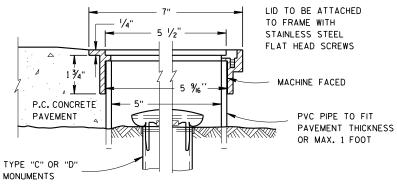
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

- (1) MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- ② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





SECTION B-B

SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2018

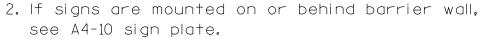
DATE

CHIEF SURV

/S/ Raymond A. KumapayI
CHIEF SURVEYING AND MAPPING ENGINEER

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The Double Arrow sign (W12-1D) 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).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

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

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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- ** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

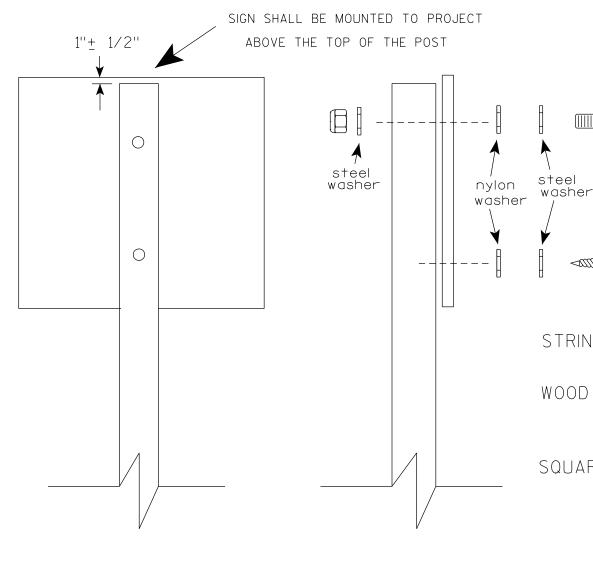
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4" \times 6")$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{1}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer





Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov