

FILE NAME : I:\45\450505 W. PINE LAKE ROAD\C3D\SHEETSPLAN\010101_TI.DWG

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GARNICA, BRANDON PLOT BY :

		FEDERAL PROJECT				
	STATE PROJECT	PROJECT	CONTRACT			
	9815-00-70	WISC 2024258	1			
- 8						
		ACCEPTED FOR				
4		FOREST COUNTY				
		10-31-2013 Allul 1	-			
32		DATE HIGHWAY COM	MMISSIONER			
		ORIGINAL PLANS PREPA	RED BY			
		AVDEC				
		AVICES				
		SCONS	un,			
		ALL WILL				
		RYAND.	100			
		SCHRITEL	An			
		GREENBAY.	E .			
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		SONAL EN	mm			
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CT	- 	10/30/20	23			
			N			
		DEPARTMENT OF TRANSPO	RTATION			
		PREPARED BY				
		Surveyor AYRES				
		Designer AYRES	/A			
		Project ManagerUAN ER				
		Regional Supervisor DAN ER	/Α			
ONS	SIN					
ARE	ry, Grid	APPROVED FOR THE DEPARTMENT				
RID E RE	DISTANCES	DATE:(Signature	2)			
D O	N GEOID 12B.	,	Ē			

RUNOFF COEFFICIENT TABLE

GENERAL NOTES

THE LOCATION OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

PROPERTY LINES AS SHOWN ARE APPROXIMATE.

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

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

UTILITIES

EROSION CONTROL LOCATIONS AS SHOWN ON THE EROSION CONTROL PLAN ARE APPROXIMATE. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SUBGRADE SHOULDER POINTS ARE TO BE SEEDED AND EROSION MAT AS DIRECTED BY THE ENGINEER.

ALL ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD 88 (2012).

WISDOT WILL FURNISH A BENCHMARK MONUMENT TO BE SET BY THE CONTRACTOR.

HYDROLOGIC SOIL GROUP в Α SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT 2-6 LAND USE 0-2 6 & OVER 2-6 6 & OVE 0-2 ROW CROPS .08 .16 .22 .12 .20 .27 .22 .30 .38 .26 .34 .44 MEDIAN STRIP-.19 .20 .24 .19 .22 .26 TURF .24 .26 .30 .25 .28 .33 SIDE SLOPE-.27 .25 TURF .32 .34 PAVEMENT: ASPHALT .70 -CONCRETE .80 -BRICK .70 -DRIVES, WALKS .75 -ROOFS .75 - .95 GRAVEL ROADS, SHOULDERS .40 - .60

TOTAL PROJECT AREA= 0.20 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.17 ACRES SOIL GROUP A/D

* FRONTIER COMMUNICATIONS AYRES TELEPHONE 608-637-0373 TELEPHONE 920-327-7840 114 E COURT STREET 3376 PACKERLAND DRIVE VIROQUA, WI 54665 DE PERE, WI 54115 STANDARD ABBREVIATIONS ATTENTION: GLENN LEFEBVRE ATTENTION: RYAN SCHAITEL E-MAIL: glen.lefebvre@FTR.com E-MAIL: SchaitelR@AyresAssociates.com ADT AVERAGE DAILY TRAFFIC ASPHALT CEMENT AC AGG AGGREGATE DEPARTMENT OF NATURAL RESOURCES * WISCONSIN PUBLIC SERVICES - ELECTRIC TELEPHONE 715-848-7353 ASPH ASPHALT PO BOX 1166 BM BENCH MARK WDNR-NORTHERN REGION WAUSAU, WI 54401-1166 C/L TELEPHONE 715-367-1936 CENTERLINE 107 SUTLIFF ATTENTION: KEVIN TERMAAT CONC CONCRETE RHINELANDER, WI 54501 E-MAIL: kevin.termaat@wisconsinpublicservice.com CMP CORRUGATED METAL PIPE ATTENTION: JON SIMONSEN CR. CREEK E-MAIL: jonathan.simonsen@wisconsin.com D DEGREE OF CURVE DHV DESIGN HOUR VOLUME * WISCONSIN PUBLIC SERVICES - GAS TELEPHONE 715-369-7133 ESALS EQUIVALENT SINGLE AXIS LOADS FOREST COUNTY 2027 NAVAJO STREET EXIST FXISTING RHINELANDER, WI 54501 FE FIELD ENTRANCE ATTENTION: SHANE SARKKINEN HIGHWAY COMMISSIONER HYD HYDRANT E-MAIL: shane.sarkkinen@wisconsinpublicservice.com TELEPHONE 715-478-3516 5350 COUNTY HWY W IRON PIPE OR PIN IP CRANDON, WI 54520 LENGTH OF CURVE 1 ATTENTION MARK CHRISMAN LC LONG CHORD OF CURVE E-MAIL: mchrisman@co.forest.wi.us *-MEMBER OF DIGGERS HOTLINE LR LENGTH OF RUNOFF ΜΗ MANHOLE TOWN OF HILES TOWN CHAIRMAN TELEPHONE 715-784-1323 9193 NORTH MAIN STREET HILES, WI 54511 ATTENTION: BRIAN BUKOVIC Dial 811 or (800)242-8511 E-MAIL: townofhiles@outlook.com www.DiggersHotline.com **GENERAL NOTES**

DESIGN CONTACT

PROJECT NO: 9815-00-70 HWY: WEST PINE LAKE ROAD COUNTY: FOREST

I:\45\450505 W. PINE LAKE ROAD\C3D\SHEETSPLAN\020101_GN.DWG FILE NAME : LAYOUT NAME - 020101_gn

PLOT DATE : 10/30/2023 2:08 PM PLOT BY :

GARNICA, BRANDON PLOT NAME

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		С		D			
)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
R	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
			.28 .36			.30 .38	
.95							
.95							
.80							
.85							

NC	NORMAL CROWN
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PE	PRIVATE ENTRANCE
R	RADIUS
REM	REMOVE
R/L OR RL	REFERENCE LINE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
R.O.	RUNOUT
R/W	RIGHT-OF-WAY
STA	STATION
SE	SUPER ELEVATION
SS	STORM SEWER
т	TANGENT
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
Т	TRUCKS
VC	VERTICAL CURVE
W	WELL

2

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NATURAL / GROUND

TOPSOIL, FERTILIZE, SEED AND EROSION MAT

NATURAL GROUND

2

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FILE NAME : I:\45\450505 W. PINE LAKE ROAD\C3D\SHEETSPLAN\021001_CD.DWG LAYOUT NAME - 021001_cd PLOT DATE : 10/30/2023 2:08 PM PLOT BY : GARNICA, BRANDON

IDON PLOT NAME :

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AT URBAN CLASS I, TYPE B	4	2
BARRIER		
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ATER FLOW		\mathbf{i}
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ROAD R/W		
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EXISTING R/W		-
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	RAILROAD	R/W
	СПЕСТ	── <u></u> <u> </u>
	SHEEL	1 - 1

# Estimate Of Quantities

					9815-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	2.000	2.000	
0004	204.9060.S	Removing (item description) 01. Sheet Piling	EACH	2.000	2.000	
0006	205.0100	Excavation Common	CY	106.000	106.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-21-32	EACH	1.000	1.000	
0010	213.0100	Finishing Roadway (project) 01. 9815-00-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	141.000	141.000	
0016	450.4000	HMA Cold Weather Paving	TON	14.000	14.000	
0018	455.0605	Tack Coat	GAL	15.000	15.000	
0020	465.0105	Asphaltic Surface	TON	54.000	54.000	
0022	465.0315	Asphaltic Flumes	SY	9.000	9.000	
0024	502.0100	Concrete Masonry Bridges	CY	120.000	120.000	
0026	502.3200	Protective Surface Treatment	SY	105.000	105.000	
0028	502.3210	Pigmented Surface Sealer	SY	55.000	55.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3.080.000	3.080.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15.040.000	15.040.000	
0034	516 0500	Rubberized Membrane Waterproofing	SY	18 000	18 000	
0036	550 0020	Pre-Boring Rock or Consolidated Materials	LE	140 000	140 000	
0000	550 1100	Piling Steel HP 10-Inch X 42 I b	L,	140.000	140.000	
0030	606.0300	Rinran Heavy	CV	135,000	135,000	
0040	612 0406	Riprap Heavy Pipe Linderdrain Wrapped 6-Inch	LE	90,000	90,000	
0042	614 0150	Anchor Assemblies for Stool Plate Ream Guard		30.000	30.000	
0044	618 0100	Maintonanco and Popair of Haul Poads (project) 01, 0815,00,70	EACH	4.000	4.000	
0040	610,1000	Mahilization	EACH	1.000	1.000	
0040	624 0100	Woter	EACH	2,000	2.000	
0050	625.0100		NGAL	2.000	2.000	
0052	629.4504		51	142.000	142.000	
0054	628,1504	Sill Fence Maintananaa		191.000	191.000	
0050	628,1520	Sill Fende Maintenance		562.000	362.000 E 000	
0000	626.1905	Mobilizations Environment Francisco Control	EACH	5.000	5.000	
0060	628.1910	Freedom Met Urben Cleas LTure D	EACH	3.000	3.000	
0062	628.2008	Erosion Mat Urban Class I Type B	SY	70.000	70.000	
0064	628.6005	Lurbidity Barriers	SY	137.000	137.000	
0066	628.7570	ROCK Bags	EACH	40.000	40.000	
0068	629.0210	Fertilizer Type B	CWI	0.100	0.100	
0070	630.0140	Seeding Mixture No. 40	LB	2.000	2.000	
0072	630.0200	Seeding Temporary	LB	3.000	3.000	
0074	630.0500	Seed Water	MGAL	4.000	4.000	
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0080	638.2602	Removing Signs Type II	EACH	10.000	10.000	
0082	638.3000	Removing Small Sign Supports	EACH	12.000	12.000	
0084	642.5001	Field Office Type B	EACH	1.000	1.000	
0086	643.0420	Traffic Control Barricades Type III	DAY	1,152.000	1,152.000	
8800	643.0705	Traffic Control Warning Lights Type A	DAY	1,792.000	1,792.000	
0090	643.0900	Traffic Control Signs	DAY	896.000	896.000	
0092	643.5000	Traffic Control	EACH	1.000	1.000	
0094	645.0111	Geotextile Type DF Schedule A	SY	80.000	80.000	
0096	645.0120	Geotextile Type HR	SY	255.000	255.000	
0098	650.4500	Construction Staking Subgrade	LF	98.000	98.000	
0100	650.5000	Construction Staking Base	LF	98.000	98.000	

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# Estimate Of Quantities

					9815-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	2.000	2.000	
0004	204.9060.S	Removing (item description) 01. Sheet Piling	EACH	2.000	2.000	
0006	205.0100	Excavation Common	CY	106.000	106.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-21-32	EACH	1.000	1.000	
0010	213.0100	Finishing Roadway (project) 01. 9815-00-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	141.000	141.000	
0016	450.4000	HMA Cold Weather Paving	TON	14.000	14.000	
0018	455.0605	Tack Coat	GAL	15.000	15.000	
0020	465.0105	Asphaltic Surface	TON	54.000	54.000	
0022	465.0315	Asphaltic Flumes	SY	9.000	9.000	
0024	502.0100	Concrete Masonry Bridges	CY	120.000	120.000	
0026	502.3200	Protective Surface Treatment	SY	105.000	105.000	
0028	502.3210	Pigmented Surface Sealer	SY	55.000	55.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3.080.000	3.080.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15.040.000	15.040.000	
0034	516 0500	Rubberized Membrane Waterproofing	SY	18 000	18 000	
0036	550 0020	Pre-Boring Rock or Consolidated Materials	LE	140 000	140 000	
0000	550 1100	Piling Steel HP 10-Inch X 42 I b	L, LF	140.000	140.000	
0030	606.0300	Rinran Heavy	CV	135,000	135,000	
0040	612 0406	Riprap Heavy Pipe Linderdrain Wrapped 6-Inch	LE	90,000	90,000	
0042	614 0150	Anchor Assemblies for Stool Plate Ream Guard		30.000	30.000	
0044	618 0100	Maintonanco and Popair of Haul Poads (project) 01, 0815,00,70	EACH	4.000	4.000	
0040	610,1000	Mahilization	EACH	1.000	1.000	
0040	624 0100	Woter	EACH	2,000	2.000	
0050	625.0100		NGAL	2.000	2.000	
0052	629.4504		51	142.000	142.000	
0054	628,1504	Sill Fence Maintananaa		191.000	191.000	
0050	628,1520	Sill Fende Maintenance		562.000	362.000 E 000	
0000	626.1905	Mobilizations Environment Francisco Control	EACH	5.000	5.000	
0060	628.1910	Freedom Met Urben Cleas LTure D	EACH	3.000	3.000	
0062	628.2008	Erosion Mat Urban Class I Type B	SY	70.000	70.000	
0064	628.6005	Lurbidity Barriers	SY	137.000	137.000	
0066	628.7570	ROCK Bags	EACH	40.000	40.000	
0068	629.0210	Fertilizer Type B	CWI	0.100	0.100	
0070	630.0140	Seeding Mixture No. 40	LB	2.000	2.000	
0072	630.0200	Seeding Temporary	LB	3.000	3.000	
0074	630.0500	Seed Water	MGAL	4.000	4.000	
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0080	638.2602	Removing Signs Type II	EACH	10.000	10.000	
0082	638.3000	Removing Small Sign Supports	EACH	12.000	12.000	
0084	642.5001	Field Office Type B	EACH	1.000	1.000	
0086	643.0420	Traffic Control Barricades Type III	DAY	1,152.000	1,152.000	
8800	643.0705	Traffic Control Warning Lights Type A	DAY	1,792.000	1,792.000	
0090	643.0900	Traffic Control Signs	DAY	896.000	896.000	
0092	643.5000	Traffic Control	EACH	1.000	1.000	
0094	645.0111	Geotextile Type DF Schedule A	SY	80.000	80.000	
0096	645.0120	Geotextile Type HR	SY	255.000	255.000	
0098	650.4500	Construction Staking Subgrade	LF	98.000	98.000	
0100	650.5000	Construction Staking Base	LF	98.000	98.000	

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	Estimate Of Quantities							
				9815-00-70				
Line Item	Item Description	Unit	Total	Qty				
0102 650.650	Construction Staking Structure Layout (structure) 01. B-21-32	EACH	1.000	1.000				
0104 650.991	1 Construction Staking Supplemental Control (project) 01. 9815-00-7	70 EACH	1.000	1.000				
0106 650.992	20 Construction Staking Slope Stakes	LF	98.000	98.000				
0108 690.015	50 Sawing Asphalt	LF	37.000	37.000				
0110 715.050	2 Incentive Strength Concrete Structures	DOL	720.000	720.000				
0112 ASP.1T	0A On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000				
0114 ASP.1T	0G On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000				
0116 SPV.00	60 Special 01. Retrofit PVC Waterstop	EACH	2.000	2.000				
0118 SPV.00	60 Special 02. Railroad Settlement Monitoring	EACH	1.000	1.000				
0120 SPV.01	95 Special 01. Backfill Structure Special	TON	240.000	240.000				

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# LANDSCAPING

		625.0100	629.0210 FERTILIZER TYPE	630.0140 SEEDING	630.0200 SEEDING	630.0500
		TOPSOIL	В	MIXTURE NO. 40	TEMPORARY	SEED WATER
TION TO STATION	LOCATION	SY	CWT	LB	LB	MGAL
- 9+75	WEST PINE LAKE RD, LT & RT	33	0.02	0.6	0.9	0.7
- 10+80	WEST PINE LAKE RD, LT & RT	23	0.01	0.5	0.6	0.5
	WASTE SITE	72	0.02	0.5	0.6	2.0
	UNDISTRIBUTED	14	0.05	0.4	0.9	0.8
	TOTALS	142	0.10	2.0	3.0	4.0

# SILT FENCE

				628.1504	628.1520
					SILT FENCE
				SILT FENCE	MAINTENANCE
STATION	ТО	STATION	LOCATION	LF	LF
9+50	-	9+63	WEST PINE LAKE RD, LT	21	42
9+50	-	9+73	WEST PINE LAKE RD, RT	41	82
10+19	-	10+90	WEST PINE LAKE RD, RT	72	144
10+74	-	10+90	WEST PINE LAKE RD, LT	19	38
			UNDISTRIBUTED	38	76
			TOTALS	191	382

### TURBIDITY BARRIER

					628.6005 TURBIDITY
CATEGORY	STATION	ТО	STATION	LOCATION	SY
0010	0.02		0.04		50
0010	9+63	-	9+94	WEST PINE LAKE RD	58
0010	10+06	-	10+74	WEST PINE LAKE RD	79
				TOTAL	137

GORY 0010 UNLESS STATED OTHERWISE

PROJECT NO: 9815-00-70	HWY: WEST PINE LAKE ROAD	COUNTY: FOREST	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\\030200_mq.pptx		PLOT DATE: October 30, 2023	PLOT BY : A.R.H.	PLOT NAME :

STATION

# MOBILIZATIONS EROSION CONTROL

	628.1905	628.1910
		MOBILIZATIONS
	MOBILIZATIONS	EMERGENCY
	EROSION	EROSION
	CONTROL	CONTROL
	EACH	EACH
Т	5	3
	5	3

# EROSION MAT

				628.2008 EROSION MAT URBAN CLASS I
STATION	то	STATION	LOCATION	SY
9+50	-	9+75	WEST PINE LAKE RD	33
10+15	-	10+80	WEST PINE LAKE RD	23
			UNDISTRIBUTED	14
			TOTALS	70

# ROCK BAGS

		628.7570
		ROCK BAGS
STATION	LOCATION	EACH
9+65	WEST PINE LAKE RD, LT	8
9+75	WEST PINE LAKE RD, RT	8
10+30	WEST PINE LAKE RD, RT	8
10+40	WEST PINE LAKE RD, LT	8
	UNDISTRIBUTED	8
	TOTAL 0010	40

SHEET:

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# REMOVING SIGNS

			638.2602	638.3000	
				REMOVING	
			REMOVING	SMALL SIGN	
			SIGNS TYPE II	SUPPORTS	
STATION	LOCATION	DESCRIPTION	EACH	EACH	REMARKS
	WEST PINE LAKE RD, RT	"10 TON BRIDGE 2.8 MILES AHEAD"	1	2	SALVAGE "SNOWMOBILE" & "ATV 25MPH" SIGI
	WEST PINE LAKE RD, RT	ONE LANE BRIDGE	1	1	SALVAGE WOOD SIGN
9+75	WEST PINE LAKE RD, RT	"WEIGHT POSTED 10 TONS"	1	1	
9+80	WEST PINE LAKE RD, LT	OBJECT MARKER	1	1	
9+80	WEST PINE LAKE RD, RT	OBJECT MARKER	1	1	
10+20	WEST PINE LAKE RD, LT	OBJECT MARKER	1	1	
10+20	WEST PINE LAKE RD, RT	OBJECT MARKER	1	1	
	WEST PINE LAKE RD, RT	"WEIGHT POSTED 10 TONS"	1	1	
	WEST PINE LAKE RD, RT	ONE LANE BRIDGE	1	1	SALVAGE "SLOW" SIGN
	WEST PINE LAKE RD, RT	"10 TON BRIDGE 3.1 MILES AHEAD"	1	2	SALVAGE "ATV 25MPH" SIGN
	TOTALS		10	12	-

	SIGNS TY	PE II AND POSTS		
		634.0612	637	.2230
		POSTS WOOD	SIGNS	S TYPE II
		4X6-INCH X 12-F1	REFLE W5-52L	W5-52R
QUADRANT	LOCATION	EACH	SF	SF
SW	WEST PINE LAKE RD	1	-	3
NW	WEST PINE LAKE RD	1	3	-
SE	WEST PINE LAKE RD	1	3	-
NE	WEST PINE LAKE RD	1	-	3
	TOTALS	4		12

GORY 0010 UNLESS STATED OTHERWISE			
PROJECT NO: 9815-00-70	HWY: WEST PINE LAKE ROAD	COUNTY: FOREST	MISCELLANEOUS QUANTITIES

FILE NAME : N:\PDS\...\030200_mq.pptx

PLOT DATE: October 30, 2023

PLOT NAME :

PLOT BY : A.R.H.

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IGNS 3	5
690.0150 SAWING ASPHALT	
18	
37	

PLOT SCALE : 1:1

SHEET:

E

# TRAFFIC CONTROL

		643.0	0420	643.0	0705	643.0	900	
		TRAFFIC	CONTROL	TRAFFIC C	ONTROL			
		BARRICA	DES TYPE	WARNING	G LIGHTS	TRAFFIC C	ONTROL	
	APPROX.	II	L	TYP	ΕA	SIGI	٧S	
	SERVICE	NO. IN		NO. IN		NO. IN		
 LOCATION	PERIOD	SERVICE	DAY	SERVICE	DAY	SERVICE	DAY	REMARKS
WEST PINE LAKE RD& YELLOW BIRCH RD	64	2	128	4	256	3	192	REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSUF
WEST PINE LAKE RD (WEST PROJECT LIMITS)	64	7	448	10	640	4	256	REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURE
WEST PINE LAKE RD (EAST PROJECT LIMITS)	64	7	448	10	640	4	256	REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURE
WEST PINE LAKE RD & MITCHELL PLOT RD	64	2	128	4	256	3	192	REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSUF
TOTALS			1,152	-	1,792	-	896	

### CONSTRUCTION STAKING

					650.4500	650.5000	650.6501.01	650.9911.01	650.9920
							CONSTRUCTION	CONSTRUCTION	
							STAKING	STAKING	
					CONSTRUCTION		STRUCTURE	SUPPLEMENTAL	CONSTRUCTION
					STAKING	CONSTRUCTION	LAYOUT	CONTROL (9815-	STAKING SLOPE
					SUBGRADE	STAKING BASE	(B-21-32)	00-70)	STAKES
CATEGORY	STATION	ТО	STATION	LOCATION	LF	LF	EACH	EACH	LF
0010	9+50	-	9+84	WEST PINE LAKE RD, LT & RT	34	34	-	-	34
0010	10+16	-	10+80	WEST PINE LAKE RD, LT & RT	64	64	-	-	64
0010	Р	ROJEC	T	WEST PINE LAKE RD, LT & RT	-	-	-	1	-
				0010 TOTALS	98	98	0	1	98
0020	STF	ΝΟΟΤΙ	JRE	B-21-32	-	-	1	-	-
				0020 TOTALS	0	0	1	0	0
				TOTALS	98	98	1	1	98

GORY 0010 UNLESS STATED OTHERWISE

PROJECT NO: 9815-00-70	ROJECT NO: 9815-00-70 HWY: WEST PINE LAKE ROAD COUNTY: FORES		MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\\030200_mq.pptx		PLOT DATE: October 30, 2023	PLOT BY : A.R.H.	PLOT NAME :

-	_
CUEET	۰.
SHEEL	

SURES DETAIL C" JRES DETAIL C & D" JRES DETAIL C & D" SURES DETAIL C"

# Estimate Of Quantities

					9815-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	2.000	2.000	
0004	204.9060.S	Removing (item description) 01. Sheet Piling	EACH	2.000	2.000	
0006	205.0100	Excavation Common	CY	106.000	106.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-21-32	EACH	1.000	1.000	
0010	213.0100	Finishing Roadway (project) 01. 9815-00-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	141.000	141.000	
0016	450.4000	HMA Cold Weather Paving	TON	14.000	14.000	
0018	455.0605	Tack Coat	GAL	15.000	15.000	
0020	465.0105	Asphaltic Surface	TON	54.000	54.000	
0022	465.0315	Asphaltic Flumes	SY	9.000	9.000	
0024	502.0100	Concrete Masonry Bridges	CY	120.000	120.000	
0026	502.3200	Protective Surface Treatment	SY	105.000	105.000	
0028	502.3210	Pigmented Surface Sealer	SY	55.000	55.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3.080.000	3.080.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15.040.000	15.040.000	
0034	516 0500	Rubberized Membrane Waterproofing	SY	18 000	18 000	
0036	550 0020	Pre-Boring Rock or Consolidated Materials	LE	140 000	140 000	
0000	550 1100	Piling Steel HP 10-Inch X 42 I b	L, LF	140.000	140.000	
0030	606.0300	Rinran Heavy	CV	135,000	135,000	
0040	612 0406	Riprap Heavy Pipe Linderdrain Wrapped 6-Inch	LE	90,000	90,000	
0042	614 0150	Anchor Assemblies for Stool Plate Ream Guard		30.000	30.000	
0044	618 0100	Maintonanco and Popair of Haul Poads (project) 01, 0815,00,70	EACH	4.000	4.000	
0040	610,1000	Mahilization	EACH	1.000	1.000	
0040	624 0100	Woter	EACH	2,000	2.000	
0050	625.0100		NGAL	2.000	2.000	
0052	629.4504		51	142.000	142.000	
0054	628,1504	Sill Fence Maintananaa		191.000	191.000	
0050	628,1520	Sill Fende Maintenance		562.000	362.000 E 000	
0000	626.1905	Mobilizations Environment Francisco Control	EACH	5.000	5.000	
0060	628.1910	Freedom Met Urben Cleas LTure D	EACH	3.000	3.000	
0062	628.2008	Erosion Mat Urban Class I Type B	SY	70.000	70.000	
0064	628.6005	Lurbidity Barriers	SY	137.000	137.000	
0066	628.7570	ROCK Bags	EACH	40.000	40.000	
0068	629.0210	Fertilizer Type B	CWI	0.100	0.100	
0070	630.0140	Seeding Mixture No. 40	LB	2.000	2.000	
0072	630.0200	Seeding Temporary	LB	3.000	3.000	
0074	630.0500	Seed Water	MGAL	4.000	4.000	
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0080	638.2602	Removing Signs Type II	EACH	10.000	10.000	
0082	638.3000	Removing Small Sign Supports	EACH	12.000	12.000	
0084	642.5001	Field Office Type B	EACH	1.000	1.000	
0086	643.0420	Traffic Control Barricades Type III	DAY	1,152.000	1,152.000	
8800	643.0705	Traffic Control Warning Lights Type A	DAY	1,792.000	1,792.000	
0090	643.0900	Traffic Control Signs	DAY	896.000	896.000	
0092	643.5000	Traffic Control	EACH	1.000	1.000	
0094	645.0111	Geotextile Type DF Schedule A	SY	80.000	80.000	
0096	645.0120	Geotextile Type HR	SY	255.000	255.000	
0098	650.4500	Construction Staking Subgrade	LF	98.000	98.000	
0100	650.5000	Construction Staking Base	LF	98.000	98.000	

# 12/19/2023 13:09:33

Page 1

	Estimate Of Quantities						
				9815-00-70			
Line Item	Item Description	Unit	Total	Qty			
0102 650.650	Construction Staking Structure Layout (structure) 01. B-21-32	EACH	1.000	1.000			
0104 650.991	1 Construction Staking Supplemental Control (project) 01. 9815-00-7	70 EACH	1.000	1.000			
0106 650.992	20 Construction Staking Slope Stakes	LF	98.000	98.000			
0108 690.015	50 Sawing Asphalt	LF	37.000	37.000			
0110 715.050	2 Incentive Strength Concrete Structures	DOL	720.000	720.000			
0112 ASP.1T	0A On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000			
0114 ASP.1T	0G On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000			
0116 SPV.00	60 Special 01. Retrofit PVC Waterstop	EACH	2.000	2.000			
0118 SPV.00	60 Special 02. Railroad Settlement Monitoring	EACH	1.000	1.000			
0120 SPV.01	95 Special 01. Backfill Structure Special	TON	240.000	240.000			

# 12/19/2023 13:09:33

Page 2

# Standard Detail Drawing List

- 08D04-07 08E09-06 08E11-02 12A03-10 13C19-03 15C02-09A 15C02-09B 15C06-12 15C11-10B CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES SILT FENCE

  - TURBIDITY BARRIER NAME PLATE (STRUCTURES)
  - HMA LONGITUDINAL JOINTS

  - BARRICADES AND SIGNS FOR MAINLINE CLOSURES BARRICADES AND SIGNS FOR VARIOUS CLOSURES
  - SIGNING & MARKING FOR TWO LANE BRIDGES
- CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS





S.D.D. 8 E 9

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# **GENERAL NOTES**

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

- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF  $1/_8$ " X  $1/_8$ " OF OAK OR HICKORY.
- (4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.







(WHEN REQUIRED BY THE ENGINEER)





- WATER ELEVATIONS.





SDD 08E -. 02





ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT. (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



# ALTERNATE LUG

# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

# APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

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# **GENERAL NOTES**

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11 - 2 SHALL BE 48" X 30"
  - R11 3 SHALL, R11 4 AND R10 61 SHALL BE 60 " X 30" M4 - 9 SHALL BE 30" X 24"
  - M3 X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
  - M4 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

  - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
  - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





SDD

**15C06-12** 

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

# DISTANCE TABLE

STED OR 85TH CENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

6

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# SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

# **GENERAL NOTES**

- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**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.

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

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# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



PROJECT NO:	HWY:	COUNTY:			
			DU OT DUTE V AT NUM ODOO AVA	DI OT DY I IO	DLOT NAME -

# GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. 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'' (+). 3. For expressways and freeways, mounting height is 7'- 3" ( $\pm$ ) or  $6'-3''(\pm)$  depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3"  $(\pm)$  or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN		PLOT DATE : 27-JAN-2014 09	:48 PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



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

7

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  $7'-3''(\pm)$  or  $6'-3''(\pm)$ 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.

 $\times$   $\times$  See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS					
)	WISCONSIN DEPT OF TRANSPORTATION					
/	APPROVED Matther & Rauch					
	For State Traffic Engineer DATE <u>8/21/17</u> PLATE NO. <u>A4-4.15</u>					
]						
	SHEET NO: E					
DI AT CA						

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



3 fasteners.

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

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E





FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

# GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two  $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Хe	ô	WOO	DF	POST			
	MODIFICATIONS								
	WISCONSIN DEPT OF TRANSPORTATION								
	APPROVE	D		hester .	Γέ	Spang			
	for State Traffic Engineer								
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2		
			9	SHEET	N0:		Ε		
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42		



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT NAME :

# NOTES

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

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 4. Alternate colors of stripes as shown.

Z	Area sq. ft.	STANDARD SIGN				
		W5-52L & W5-52R				
	3.0					
	3.0	WISCONSIN DEPT OF TRANSPORTATION				
	6.75	APPROVED Matthew & Rauch				
		for State Traffic Engineer				
		DATE 5/29/12 PLATE NO. W5-52.9				
SHEET NO: E						
PLOT SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42						

PLOT DATE : 29-MAY-2012 13:03





# DESIGN DATA

LIVE LOAD:

# MATERIAL PROPERTIES:

### HYDRAULIC DATA:

# FOUNDATION DATA:

### TRAFFIC DATA:





BID ITEM NUMBER	BID ITEMS	UNIT	N. ABUT.	S. ABUT.	SUPER.	тоти
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-21-32	EACH				1
502.0100	CONCRETE MASONRY BRIDGES	CY	29.6	29.5	60.8	120
502.3200	PROTECTIVE SURFACE TREATMENT	SY			105	105
502.3210	PIGMENTED SURFACE SEALER	SY			55	55
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,540	1,540		3,08
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,230	1,210	12,600	15,04
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9		18
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	80	60		140
550.1100	PILING STEEL HP 10-INCH × 42 LB	LF	80	60		140
606.0300	RIPRAP HEAVY	CY	70	65		135
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	45	45		90
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	2		4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	40	40		80
645.0120	GEOTEXTILE TYPE HR	SY	130	125		255
SPV.0060	RETROFIT PVC WATERSTOP	EACH	1	1		2
SPV.0195	BACKFILL STRUCTURE SPECIAL	TÓN	120	120		240
	NON-BID ITEMS					
	FILLER	SIZE				1/2" &

# TOTAL ESTIMATED OUANTITIES

	til.tbl	l
	.n-pys	l
	seau.	l
2022	BLE:Bf	l
17.701	PENTA	l

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PROTECTIVE SURFACE TREATMENT AND

PIGMENTED SURFACE SEALER DETAILS









TYPICAL FILL SECTION AT WING TIPS

BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

➡ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 6.



I:±45±450505 W.Pine Lake Road±Structures±CADD±Final±450505 soils.dgn

10/27/2023 PENTARI F-RE









I:±45±450505 W. Pine Lake Road±Structures±CADD±Final±450505 na.dgn

STATE PROJECT NUMBER

9815-00-70





* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10  $\times$  1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL



# RETROFIT PVC WATERSTOP DETAIL



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N		FOR	PILE SPLICE	DETAIL SI	EE SHI	EET 2.		8
.00								-
	NO.	DATE	F	REVISION			BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSFORTATION							
	STRUCTURE B-21-32							
				DRAWN BY	CLP	PLANS CK'D.	JMC	
IS PREPARED BY	N	ORT	'H ABU1	MENT	SHEE	Т 6	OF 12	
33 Oakwood Hills Parkway u Claire, WI 54701 w.AyresAssociates.com	F	PILE BILI	LAYOU OF B	T& ARS				

- STD. 180° НООК

10'-0"

<u>A805</u>





11"

<u>A511</u>

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

	B	ILL O	FBA	R:	5		
BAR NO.	COATED BAR	NO. REO'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	LOCATION
A401	-	4	28-0	х			BODY @ PILES
A402		8	2-3				BODY @ PILES
A503		33	14-2	Х			BODY VERT.
A604		11	26-2				BODY HORIZ.
A805		14	10-11	Х			BODY HORIZ. @ WING B.F.
A606		7	12-0				BODY HORIZ. BETW. WINGS B.F.
A507	Х	25	2-0				BODY DOWELS
A508	Х	20	15-8	×			WINGS 1 & 2 VERT.
A509	Х	6	12-2				WING 1 HORIZ. F.F.
A610	х	16	12-2				WINGS 1 & 2 HORIZ. B.F. & TOP
A511	х	28	9-4	Х			WINGS 1 & 2 VERT.
A412	х	10	9-7				WINGS 1 & 2 HORIZ. E.F.
A613	х	4	9-7				WINGS 1 & 2 HORIZ. E.F.
A414	х	6	4 - 7				BODY VERT. END @ WINGS 1 & 2
A515	х	6	10-10				WING 2 HORIZ. F.F.

_____

STATE PROJECT NUMBER

9815-00-70

10/27/2023 PENTARI F-RE

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SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF



![](_page_38_Figure_0.jpeg)

![](_page_38_Picture_1.jpeg)

10/27/2023 PENTARI F.RR

STATE PROJECT NUMBER

9815-00-70

![](_page_39_Figure_0.jpeg)

		FOR P	PILE SPLICE	DETAIL SEE	SHEE	IT 2.		
								┝
	NO.	DATE		REVISION			ΒY	1
	<b>•</b> •••	STRL	STATE DEPARTMENT	OF WISCONS OF TRANSP	ORTAT	ION		
				DRAWN BY	CLP	PLANS CK'D.	JMC	1
is prepared by 33 Oakwood Hills Parkway u Claire, WI 54701 w.AyresAssociates.com	S( F	out Pile Bill	H ABU LAYOI _ OF B	TMENT JT & SARS	SHEE	ET 9	OF 12	

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<u>∽</u> STD. 180° HOOK <u>B805</u>

10'-0"

![](_page_39_Figure_9.jpeg)

![](_page_39_Figure_10.jpeg)

11''

<u>B511</u>

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

	B	ILL O	FBA	R:	5		
BAR NO.	COATED BAR	NO. REO'D.	LENGTH	BENT BAR	BUNDLED	<b>BAR SERIES</b>	LOCATION
3401		4	28-0	Х			BODY @ PILES
3402		8	2-3				BODY @ PILES
3503		33	14-2	Х			BODY VERT.
3604		11	26-2				BODY HORIZ.
3805		14	10-11	Х			BODY HORIZ. @ WING B.F.
3606		7	12-0				BODY HORIZ. BETW. WINGS B.F.
3507	Х	25	2-0				BODY DOWELS
3508	Х	20	15-8	Х			WINGS 3 & 4 VERT.
3509	Х	6	12-2				WINGS 4 HORIZ. F.F.
3610	Х	16	12-2				WINGS 3 & 4 HORIZ. B.F. & TOP
3511	Х	28	8-10	Х			WINGS 3 & 4 VERT.
3412	Х	10	9-7				WINGS 3 & 4 HORIZ. E.F.
3613	X	4	9-7				WINGS 3 & 4 HORIZ. E.F.
3414	Х	6	4 - 7				BODY VERT. END @ WINGS 3 & 4
3515	Х	6	10-10				WING 3 HORIZ. F.F.

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![](_page_40_Figure_0.jpeg)

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-O' CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-O' CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

8

![](_page_40_Figure_5.jpeg)

![](_page_40_Picture_6.jpeg)

							9815-00-70
	B	<u>ILL O</u>	FBA	RS	<u>&gt;</u>		
S NO.	ED BAR	REO'D.	ЧСТН	f bar	DLED	SERIES	
BAF	COAT	NO. 1	LE	BENI	BUN	BAR	LOCATION
501	Х	54	5-10	Х			SLAB @ ABUT.
502	Х	54	3-3	Х			SLAB @ ABUT.
1003	Х	49	27-3				SLAB LONG. BOT.
504	Х	52	26-2				SLAB TRANS. BOT.
505	Х	33	26-2				SLAB TRANS. TOP
406	Х	27	32-2				SLAB LONG. TOP
507	Х	98	4-5	Х			SLAB @ PARAPET VERT.
508	Х	98	6-8	Х			PARAPET VERT.
509	Х	16	32-2				PARAPET HORIZ.
510	X	60	5-0				SLAB TRANS. TOP @ EDGES

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![](_page_41_Figure_0.jpeg)

PART LONGITUDINAL SECTION

![](_page_41_Figure_2.jpeg)

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

# TOP OF DECK ELEVATIONS

E. EDGE OF SLAB         1638.76         1638.72         1638.67         1638.63         1638.55         1638.51         1638.48         1638.45         1638.42         163           © OF STRUCTURE         1639.00         1638.96         1638.91         1638.87         1638.83         1638.75         1638.72         1638.66         163           W <edclor< td="">         50.00         1637.76         1637.72         1638.91         1638.87         1638.83         1638.75         1638.72         1638.66         163</edclor<>	LOCATION	€ OF N. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF S. ABUT.
€ OF STRUCTURE 1639.00 1638.96 1638.91 1638.87 1638.83 1638.79 1638.75 1638.72 1638.69 1638.66 163	E. EDGE OF SLAB	1638.76	1638.72	1638.67	1638.63	1638.59	1638.55	1638.51	1638.48	1638.45	1638.42	1638.39
	€ OF STRUCTURE	1639.00	1638.96	1638.91	1638.87	1638.83	1638.79	1638.75	1638.72	1638.69	1638.66	1638.63
W. EDGE OF SLAB   1638.76   1638.72   1638.67   1638.63   1638.59   1638.55   1638.51   1638.48   1638.45   1638.42   163	W. EDGE OF SLAB	1638.76	1638.72	1638.67	1638.63	1638.59	1638.55	1638.51	1638.48	1638.45	1638.42	1638.39

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

# SURVEY TOP OF SLAB ELEVATIONS

LOCATION	€ OF N. ABUT.	5/10 PTS.	€ OF S. ABUT.
E. EDGE OF SLAB			
€ OF STRUCTURE			
W. EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE €. OF ABUTMENTS AND AT 5/10 PTS, TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR €. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

![](_page_41_Picture_12.jpeg)

6/5/2023

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TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE, FOLLOW THIS PROCEDURE:

PLUS..... FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

NO. DATE REVISION ΒY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-21-32 DRAWN BY CLP PLANS CK'D. JMC SHEET 11 OF 12 SUPERSTRUCTURE ARES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com DETAILS

![](_page_42_Figure_0.jpeg)

.....

		AREA (SF)		INCREME	NTAL VOL (CY) (UN	ADJUSTED)	CUMULA	TIVE VOL (CY)		
STATION	СИТ	UNUSABLE PAVEMENT	FILL	FILL	UNUSABLE PAVEMENT	FILL	СИТ	EXPANDED FILL	MASS ORDINATE	
		MATERIAL			MATERIAL		1.00	1.30		
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8	
9+50	22.31	7.92	0.00	0	0	0	0	0	0	
9+60	36.04	7.92	0.33	11	3	0	11	0	8	
9+83.75	36.04	7.92	0.33	32	7	0	43	0	33	
B-21-32	0.00	0.00	0.00	0	0	0	43	0	33	
10+16.25	28.48	7.96	2.41	0	0	0	43	0	33	
10+50	28.48	7.92	2.41	36	10	3	79	4	55	
10+80	20.34	7.92	0.00	27	9	1	106	5	72	

# EARTHWORK - WEST PINE LAKE RD

106 29 4

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - UNUSABLE PAVEMENT - (FILL * FILL FACTOR)

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9

SHEET	Ε	

![](_page_44_Figure_0.jpeg)

I:\45\450505 W. PINE LAKE ROAD\C3D\SHEETSPLAN\090201_XS.DWG LAYOUT NAME - 090201_xs

PLOT DATE : 10/30/2023 2:09 PM PLOT BY :

![](_page_45_Figure_0.jpeg)

WISDOT/CADDS SHEET 49

![](_page_46_Picture_0.jpeg)

# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

![](_page_46_Picture_4.jpeg)