JANUARY 2020 ORDER OF SHEETS

Section No. 1

Typical Sections and Details Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities

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

Section No. 6 Standard Detail Drawings Section No. 7

Section No. 8

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

TOTAL SHEETS = 140

DESIGN DESIGNATION 8200-00-70

A.A.D.T. (2021) = 3100 A.A.D.T. (2041) = 3600 D.H.V. (2041) = 414 VPH = 60/40 T. (% A.A.D.T.) = 24.6%

= 55 MPH (ALI 'A' & 'B')/ 45 MPH (ALI 'C') DESIGN SPEED

= 1,400,000 **ESALS**

CONVENTIONAL SYMBOLS

PLAN

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

WOODED OR SHRUB AREA

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION

CULVERT (Profile View) UTILITIES ELECTRIC ----OVERHEAD UTILITY FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

WATER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

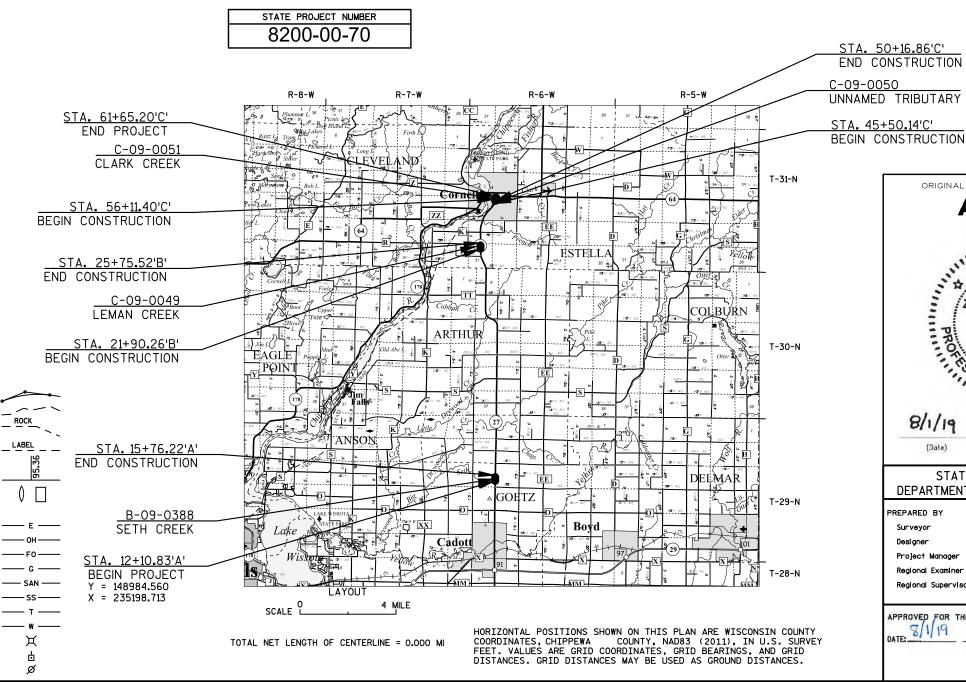
PLAN OF PROPOSED IMPROVEMENT

CADOTT - CORNELL

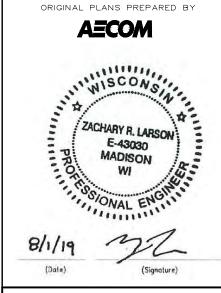
100TH AVENUE TO SOUTH STREET/4-CULV

STH 27

CHIPPEWA COUNTY



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2019817 8200-00-70



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WisD0T Surveyor AECOM TYLER RONGSTAD TOU YANG JAMES KOENIG

APPROVED FOR THE DEPARTMENT 8/1/19

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GENERAL NOTES

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

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

CROSS DRAIN PIPES ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS, SHALL BE ADJUSTED TO FIT THE EXISTING FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.

EXCAVATION BELOW SUBGRADE (EBS), FOR REMOVAL OF UNSUITABLE MATERIAL, AS SHOWN ON THE PLANS IS MEASURED AND PAID FOR AS EXCAVATION COMMON, EXACT LOCATIONS FOR REMOVING UNSUITABLE MATERIAL WILL BE DETERMINED BY THE ENGINEER.

SALVAGED TOPSOIL, SEEDING, MULCHING, AND FERTILIZER HAVE BEEN COMPUTED BY A DIRECT MEASUREMENT ON THE CROSS SECTIONS PLUS FIVE (5) FEET BEYOND THE TOE OF SLOPE.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES, UNLESS OTHERWISE NOTED IN THE PLANS.

THE CONTRACTOR SHALL NOT OPERATE BEYOND THE SLOPE INTERCEPTS AS SHOWN IN THE PLANS WHEN ADJACENT TO WETLANDS OR ENVIRONMENTALLY SENSITIVE AREAS.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANF

ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

EROSION CONTROL ITEMS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS TO FIT FIELD CONDITIONS.

WETLANDS. WATERWAYS. AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

ELEVATIONS ARE REFERENCED TO NAVD 83 (2011).

THE HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON A UNIT WEIGHT OF 112 LBS/SY/IN OF DEPTH.

HWY: STH 27

7.5-INCH ASPHALTIC SURFACE (MUST MEET 4 MT 58-34 S OR HIGHER)

LAYER	THICKNESS	BID ITEM				
UPPER	2.5-INCHES	ASPHALTIC SURFACE				
MIDDLE	2.5-INCHES	ASPHALTIC SURFACE				
LOWER	2.5-INCHES	ASPHALTIC SURFACE				

ABBREVIATIONS

(100') RECORDED AS A.A.D.T. ANNUAL AVERAGE DAILY TRAFFIC ACCESS POINT/DRIVEWAY CONNECTION ΔR ACCESS RIGHTS ASPH. ASPHALTIC ET. AL. AND OTHERS BASE AGGREGATE DENSE B.A.D. BENCH MARK C & G CURB AND GUTTER CENTERLINE € OR CL C.A.B.C. CRUSHED AGGREGATE BASE COURSE CULVERT PIPE C.P. C.P.C.S. CULVERT PIPE CORRUGATED STEEL C.P.R.C. CULVERT PIPE REINFORCED CONCRETE COUNTY TRUNK HTGHWAY C.T.H. COMMERCIAL ENTRANCE CORRUGATED METAL CULVERT PIPE C.M.C.P. CONCRETE CORNER

CONC. COR. CERTIFIED SURVEY MAP CSM HUNDREDWEIGHT CWT. DEGREE OF CURVE DIRECTIONAL DISTRIBUTION D.D. DESIGN HOUR VOLUME D.H.V.

DTAMFTFR DIA. DOC. DOCUMENT EAST

EXCAVATION BELOW SUBGRADE E.B.S. E.S.A.L. EQUIVALENT SINGLE AXLE LOAD EASE. EASEMENT **EASTBOUND** EB

EL OR ELEV **ELEVATION** ELEC. ELECTRIC (AL) EXCAVATION EXC. EXISTING EXIST. FIELD ENTRANCE F.E. F.L. OR F/L FLOW LINE FT. F00T H.E. HIGHWAY EASEMENT

HOT MIX ASPHALT HMA INL. INLET TNV TNVFRT IP OR I.P. IRON PIN LENGTH OF CURVE

L.H.F. LEFT-HAND FORWARD LUMP SUM L.S. LB. POLIND LANE

LT. OR LT LEFT M.L. OR M/L MATCH LINE MATERIAL MATL. MAXIMUM MAX. MANHOLE MH MINIMUM MIN. MON. MONUMENT ROADWAY MILEAGE NORTH NORMAL CROWN N.C. NORTH BOUND OBLIT OBLITERATE

P.A.S.P. PIPE ARCH STRUCTURAL PLATE POINT OF CURVATURE
POINT OF COMPOUND CURVE P.C. P.C.C. P.E. PRIVATE ENTRANCE POINT OF INTERSECTION P.I. PROPERTY LINE P.L.E. PERMANENT LIMITED EASEMENT POINT OF TANGENCY P.T.

PAVEMENT PAVT. PROJ. **PROJECT** PT. **POINT** RADIUS

RIGHT-HAND FORWARD R.H.F. REFERENCE LINE R OR R/L RIGHT-OF-WAY

COUNTY: CHIPPEWA

REINFORCED CONCRETE CULVERT PIPE R.C.C.P. REINFORCEMENT BAR RFRAR

ABBREVIATIONS CONT.

REINF REINFORCING OR REINFORCEMENT REM. REMAINING REQD. REQUIRED

RELEASE OF RIGHTS ROR RATLROAD RR. RAILROAD SPIKE RRSP

RT OR RT. RIGHT SOUTH S.D.D. STANDARD DETAIL DRAWINGS

SUPERELEVATION S.F. OR SQ.FT. SQUARE FEET

STORM SEWER S.S. S.S.P.R.C. STORM SEWER PIPE REINFORCED CONCRETE

S.T.H. STATE TRUNK HIGHWAYS

S.Y. OR SQ.YD. SQUARE YARD SALVAGED SALV. SOUTHBOUND SEC. **SECTION** SHLDR. SHOULDER SPECS. **SPECIFICATIONS** STATION STA. STANDARD STD. TANGENT

TRUCKS (PERCENT OF) TEMPORARY LIMITED EASEMENT T.L.E. TEMPORARY PAVEMENT MARKING T.P.M.

TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE T.P.M.R.T.

TEL. **TELEPHONE** TEMP. **TEMPORARY** TYPICAL TYP. UNITED STATES HIGHWAY U.S.H.

UNDERGROUND UG.

VOLUME. v.c. VERTICAL CURVE

WEST WB WESTBOUND

EAST GRID COORDINATE NORTH GRID COORDINATE

> **DETAIL SHEET INDEX** GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS **EROSION CONTROL** PAVEMENT MARKING & SIGNING DETOUR ALIGNMENT DATA

> > SHEET

COMMUNICATION LINE

CENTURYLINK BRIAN HUHN 425 ELLINGSON AVENUE P.O. BOX 78 HAWKINS, WI 54530 (715) 532-0023 WORK (715) 563-8294 CELL brian.huhn@centurylink.com

CHARTER COMMUNICATIONS SHANE YODER 1201 MCCANN DRIVE ALTOONA, WI 54720 (715) 831-8940 EXT 51113 shane.yoder@charter.com

ELECTRICITY

CHIPPEWA VALLEY ELECTRIC COOPERATIVE JIM HODOWANIC 317 S 8TH ST P.O. BOX 575 CORNELL, WI 54732 (715) 239-6800 OFFICE (715) 827-0214 CELL jhodowanic@cve.coop

CITY OF CORNELL BEN MODL 300 PARK ROAD CORNELL, WI 54732 715-577-4590 cornellutilitiydept@centurytel.net

WATER

CITY OF CORNELL BEN MODL 300 PARK ROAD CORNELL. WI 54732 715-577-4590 cornellutilitiydept@centurytel.net

<u>SEWER</u>

CITY OF CORNELL BEN MODL 300 PARK ROAD CORNELL, WI 54732 715-577-4590 cornellutilitiydept@centurytel.net

GAS/PETROLEUM

WE ENERGIES STEVEN CHAVERS 104 W. SOUTH ST. RICE LAKE, WI 54868 (715) 234-9605 Steven.chavers@we-energies.com

24-HOUR EMERGENCY (GAS) 800-261-5325

WISDOT

WisDOT DESIGN PROJECT MANAGER TYLER RONGSTAD 718 CLAIREMONT AVE EAU CLAIRE, WI 54701 PHONE: (715) 836-2094 tyler.rongstad@dot.wi.gov

WISDNR

WISCONSIN DEPARTMENT OF NATURAL RESOURCES (NORTHERN REGION) CHIPPEWA COUNTY AMY CRONK 810 W. MAPLE STREET SPOONER, WI 54801 PHONE: (715) 635-4229 amy.cronk@wisconsin.gov

DESIGN CONTRACT (ROADWAY)

AECOM ZACH LARSON 1350 DEMING WAY SUITE 100 MIDDLETON, WI 53562 PHONE: (608) 828-8165 zachary.larson@aecom.com

OTHER AGENCIES

Dial or (800) 242-8511 www.DiggersHotline.com

PROJECT NO: 8200-00-70

HWY:STH 27

COUNTY: CHIPPEWA

GENERAL NOTES

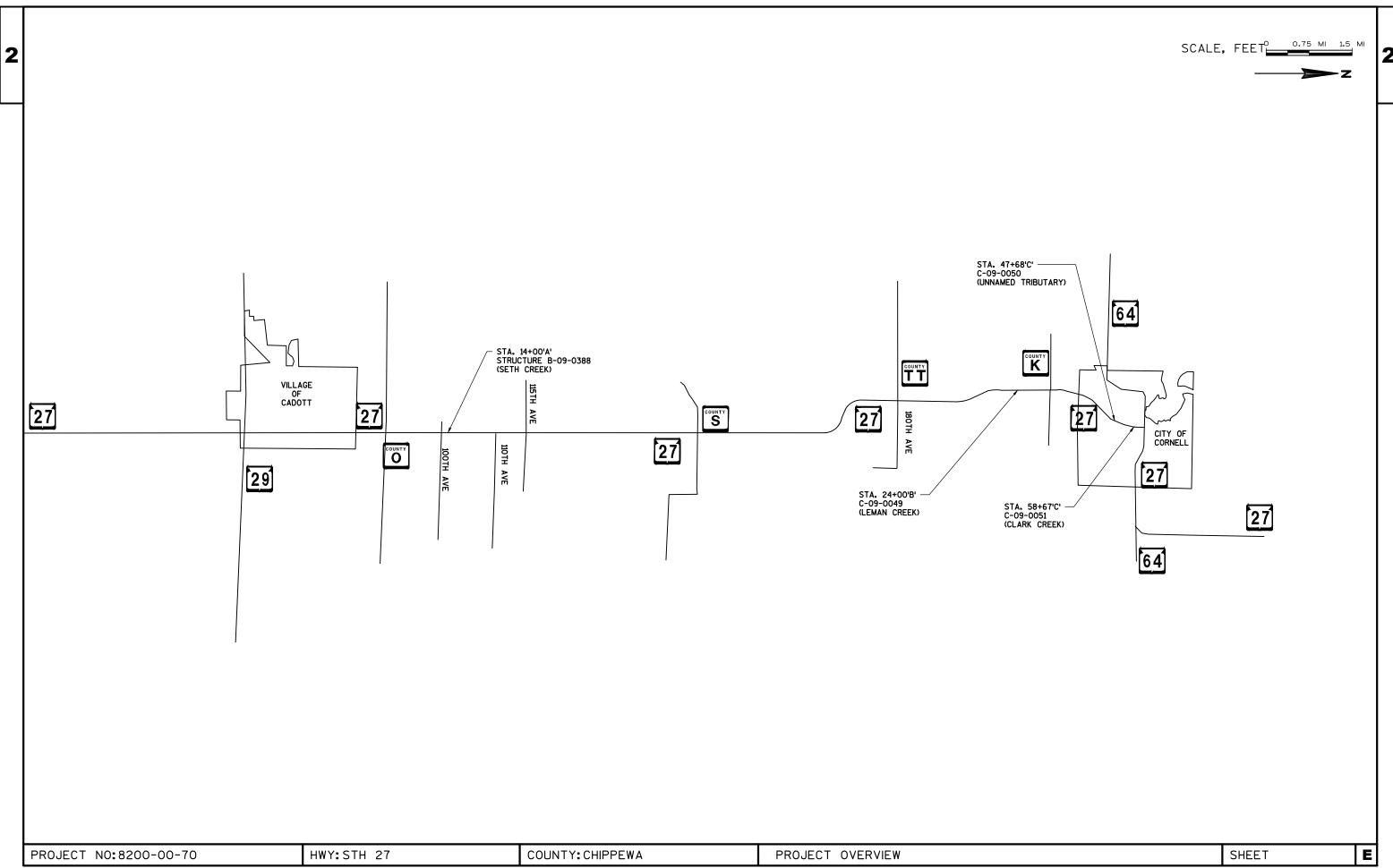
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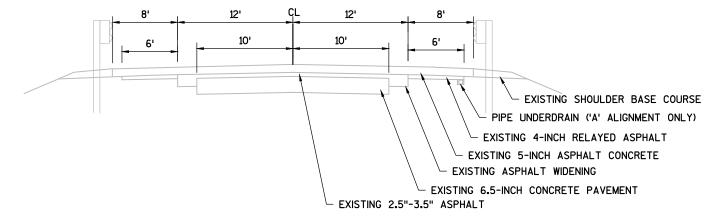
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PLOT DATE : 7/30/2019 10:09 AM

PLOT BY: ARBUCKLE, ADRIAN PLOT NAME: ______

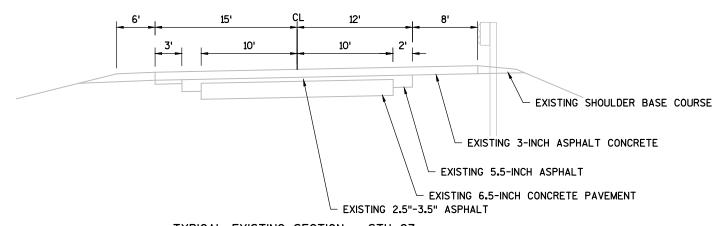




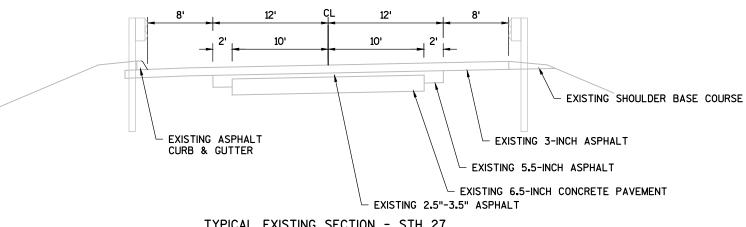


TYPICAL EXISTING SECTION - STH 27

STA. 12+11'A' - STA. 15+76'A' STA. 21+90'B' - STA. 25+76'B'



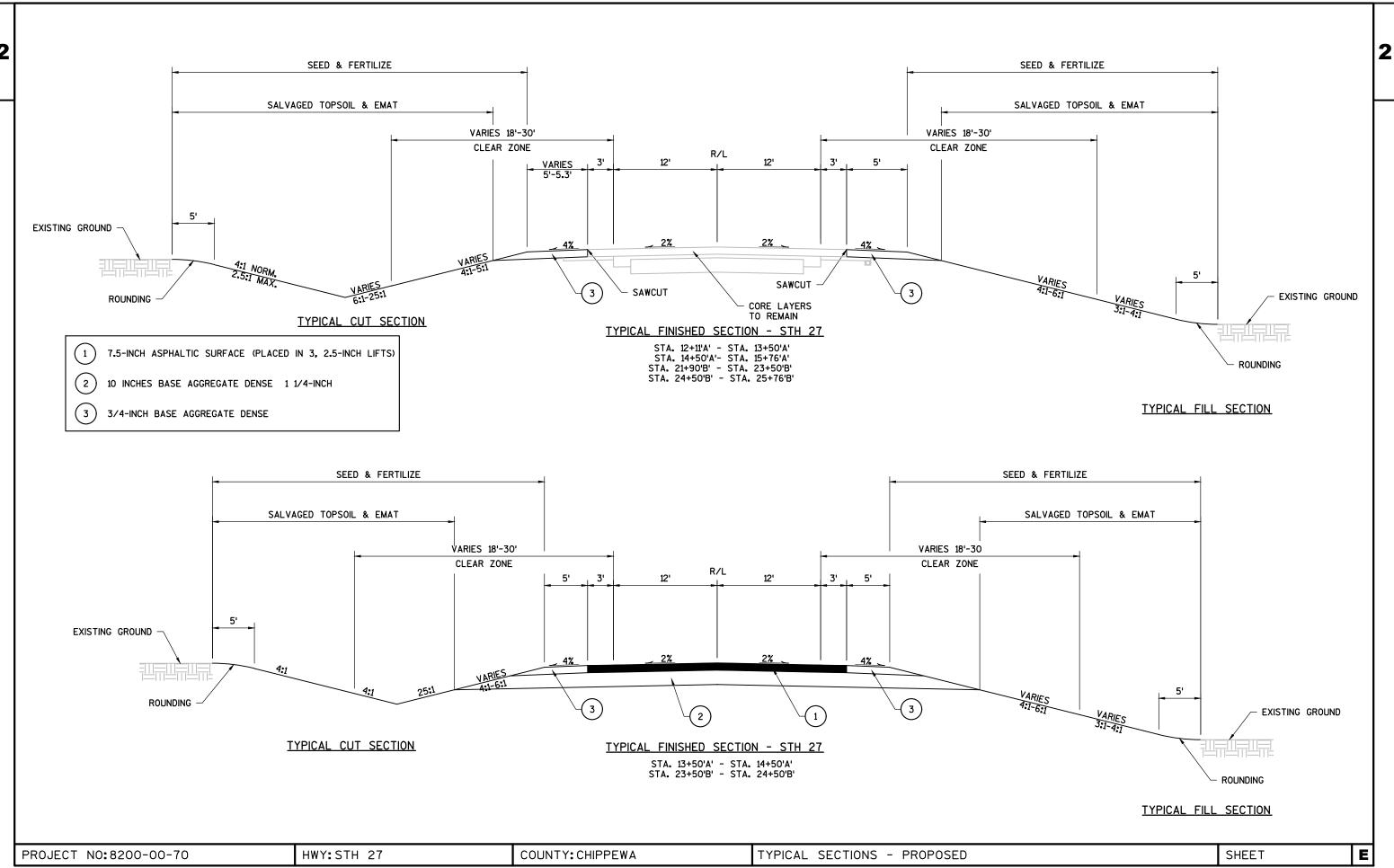
TYPICAL EXISTING SECTION - STH 27 STA. 45+50'C' - STA. 50+17'C'

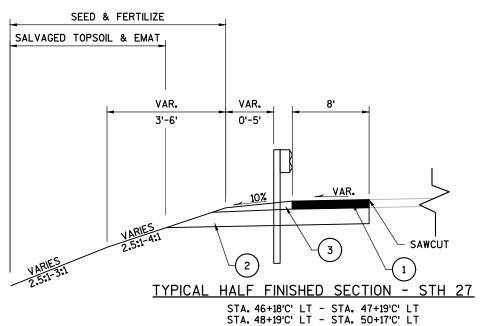


TYPICAL EXISTING SECTION - STH 27

STA. 56+11'C' - STA. 61+65'C'

HWY:STH 27 COUNTY: CHIPPEWA TYPICAL SECTIONS - EXISTING SHEET E PROJECT NO:8200-00-70



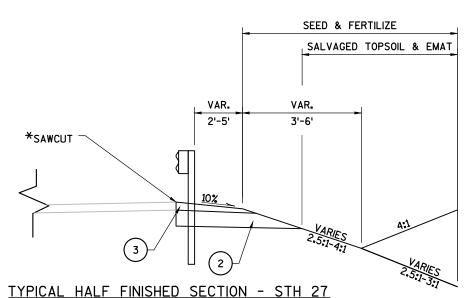


HWY:STH 27

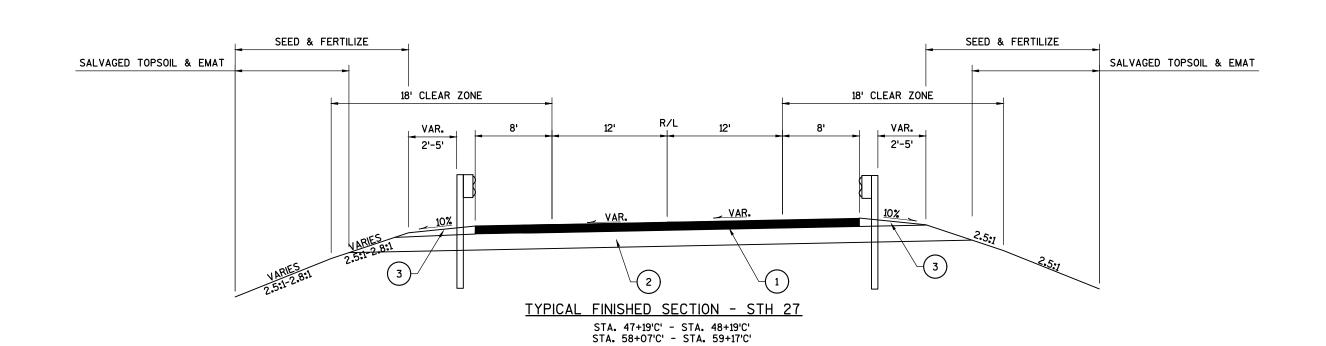
2 10 INCHES BASE AGGREGATE DENSE 1 1/4-INCH

7.5-INCH ASPHALTIC SURFACE (PLACED IN 3, 2.5-INCH LIFTS)

(3) 3/4-INCH BASE AGGREGATE DENSE



STA. 45+50'C' RT - STA. 47+19'C' RT STA. 48+19'C' RT - STA. 48+76'C' RT STA. 56+77'C' RT - STA. 58+07'C' RT * STA. 57+58'C' LT - STA. 58+07'C' LT STA. 59+17'C' RT - STA. 60+57'C' RT STA. 59+17'C' LT - STA. 61+65'C' LT *



COUNTY: CHIPPEWA

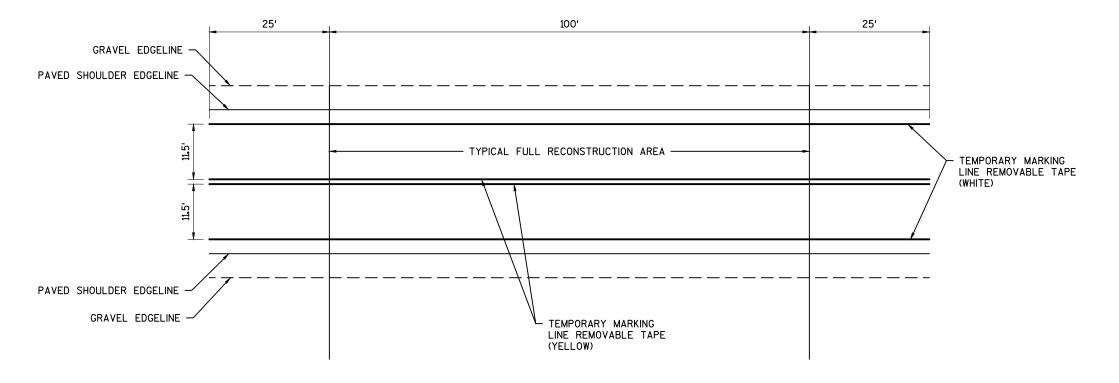
PROJECT NO:8200-00-70

TYPICAL SECTIONS - PROPOSED

SHEET

E

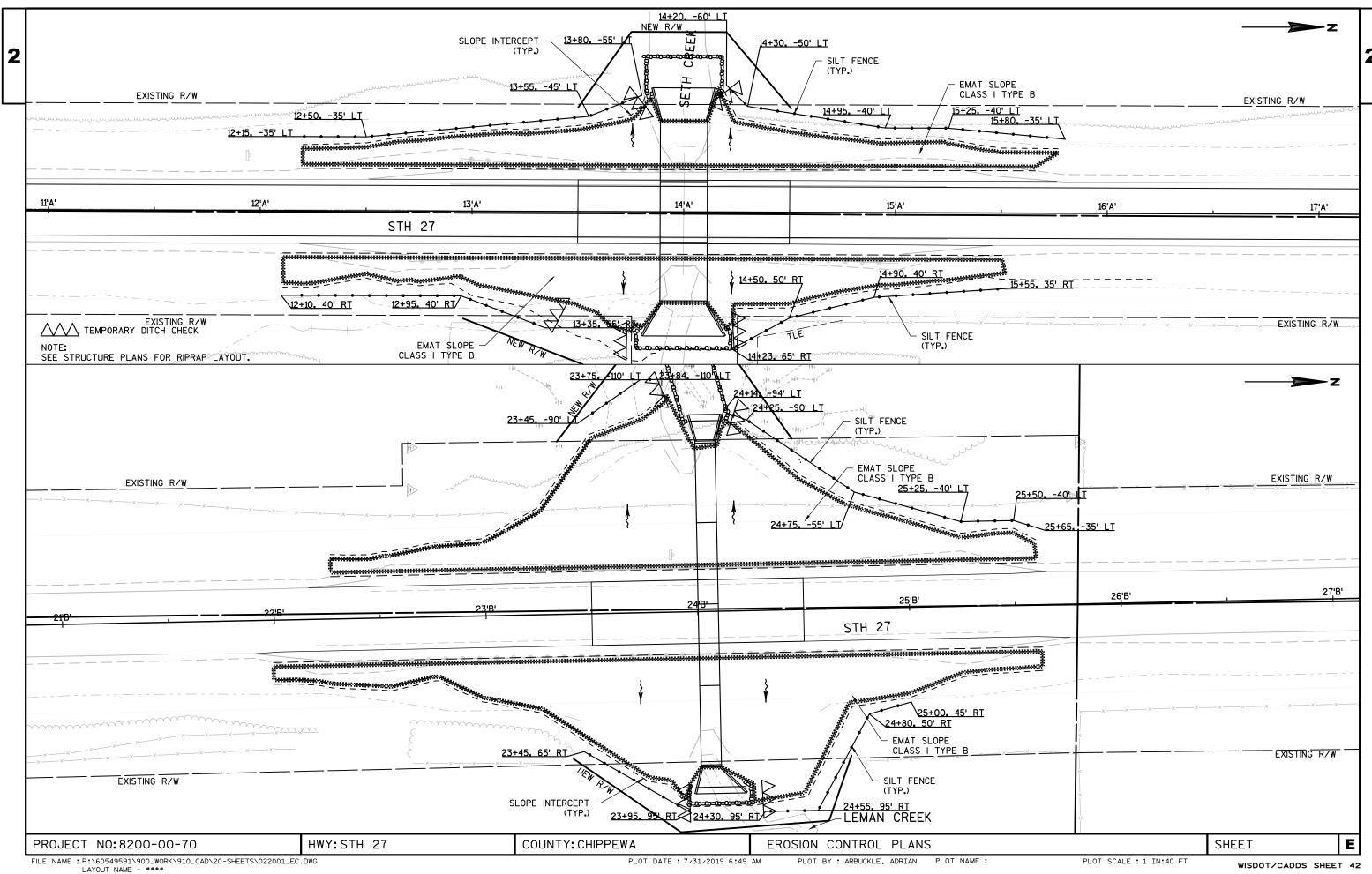


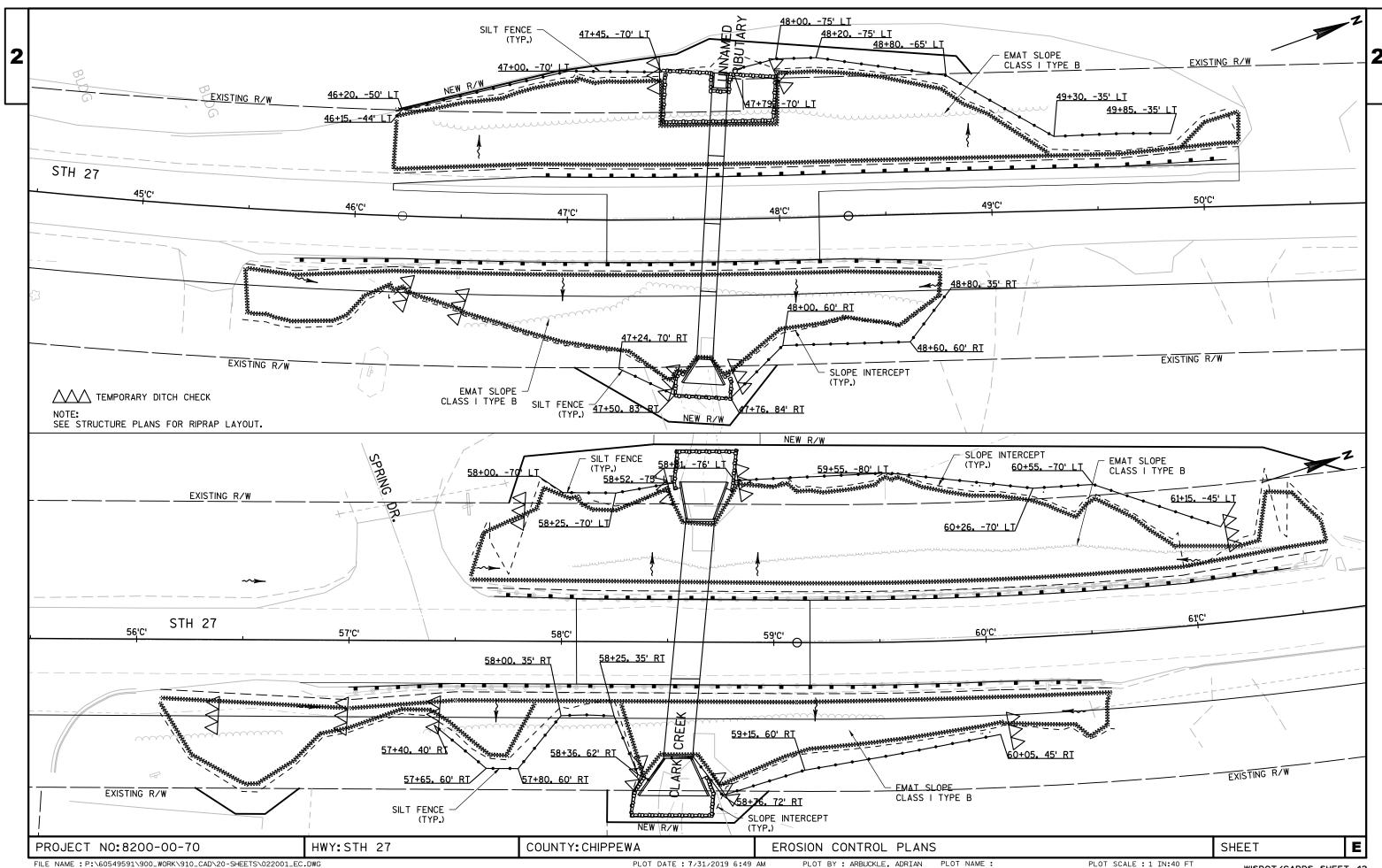


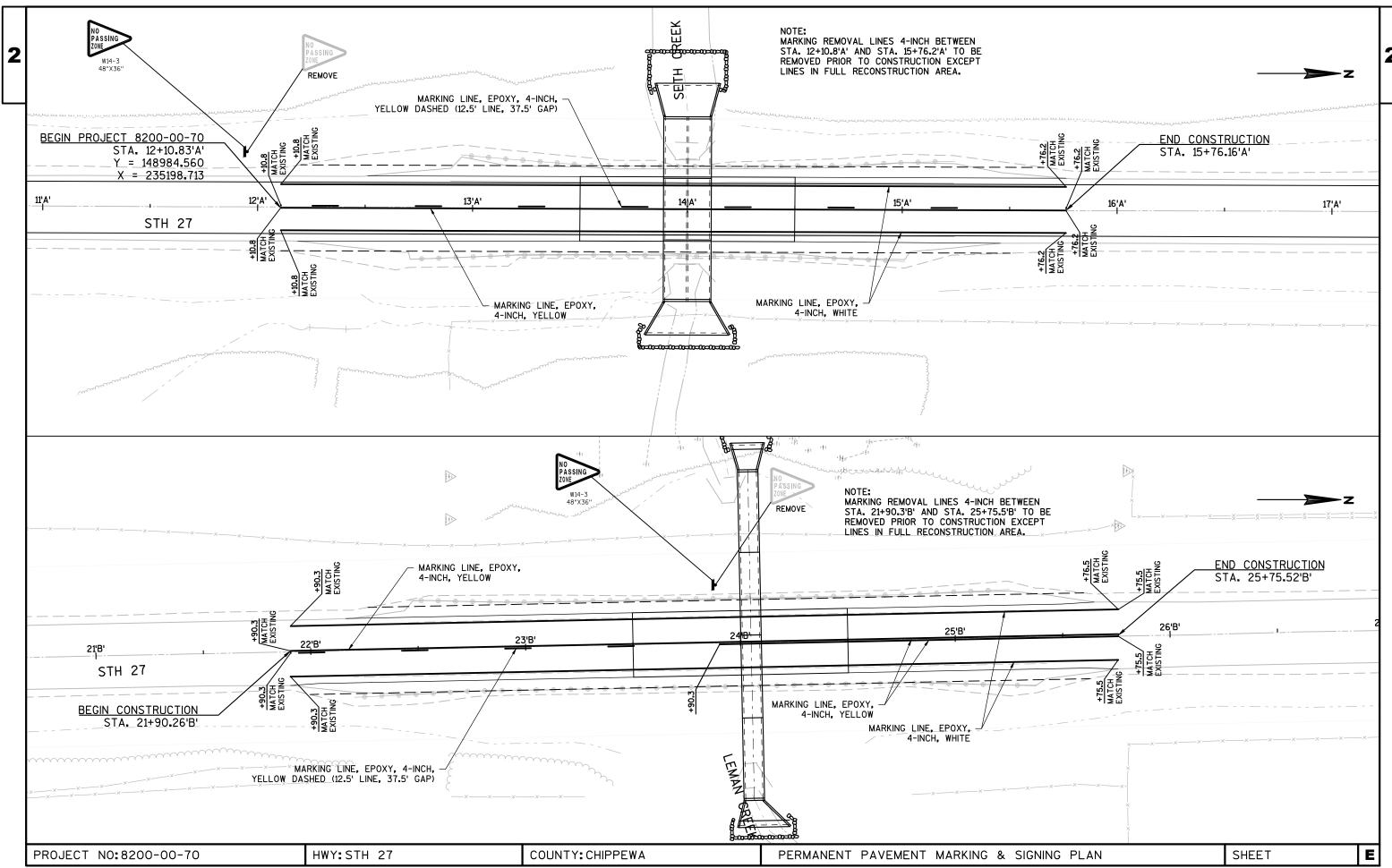
TEMPORARY PAVEMENT MARKING

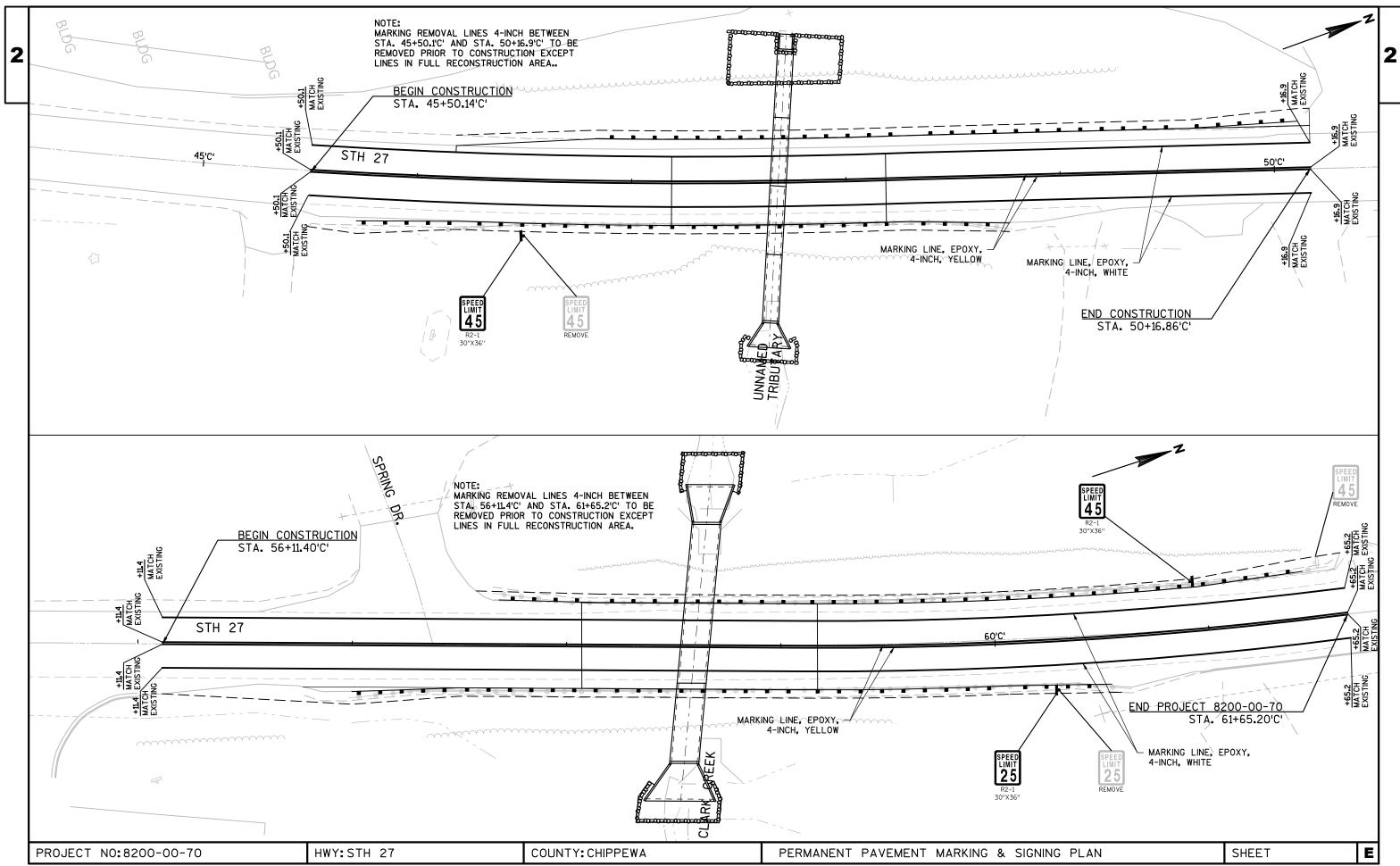
TO BE USED AT WORK ZONES WHILE SPECIAL EVENTS OCCUR SUCH AS COUNTRYFEST AND ROCKFEST.

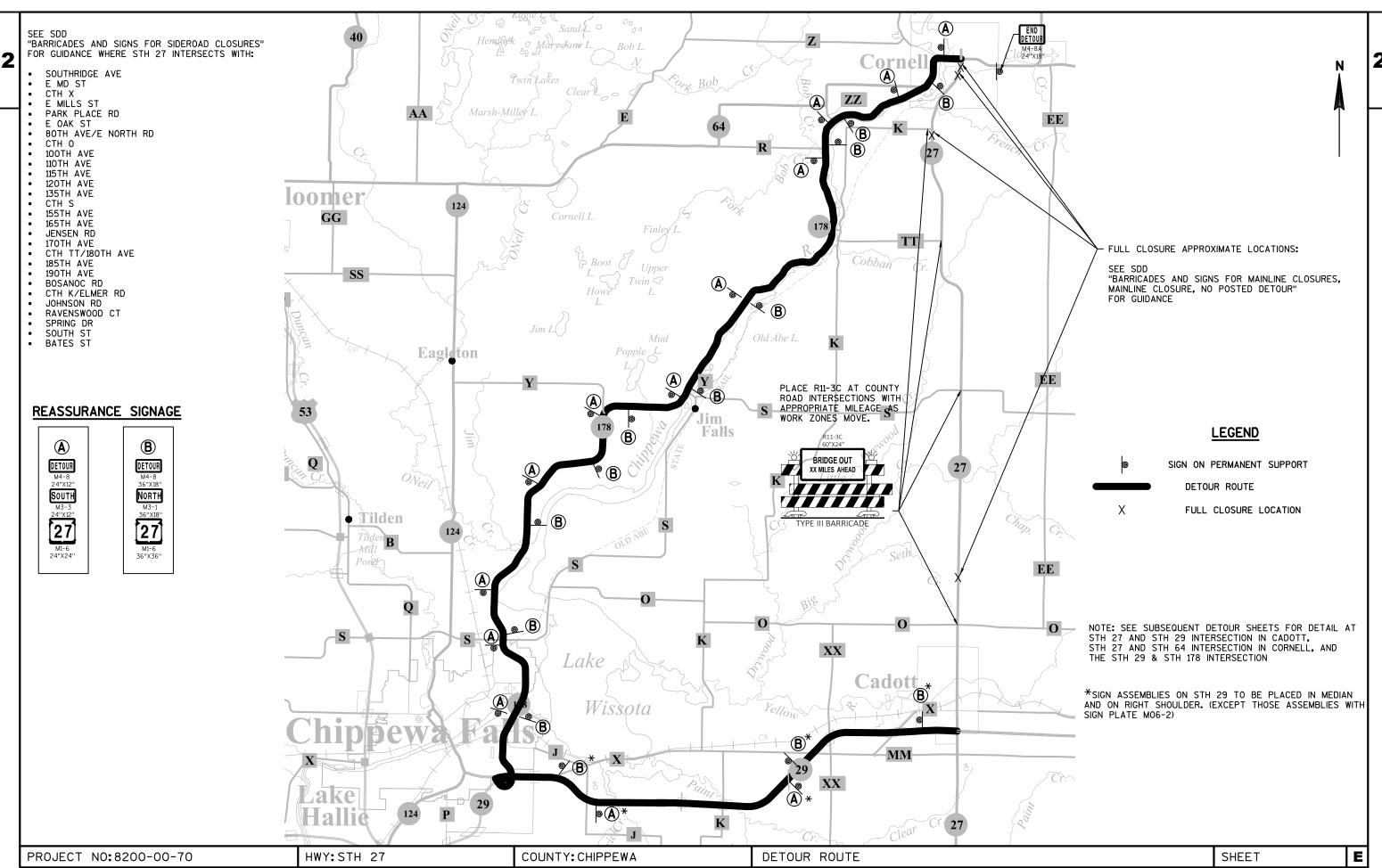
PROJECT NO:8200-00-72 HWY:STH 27 COUNTY:CHIPPEWA CONSTRUCTION DETAIL - TEMPORARY PAVEMENT MARKING PLACEMENT SHEET E

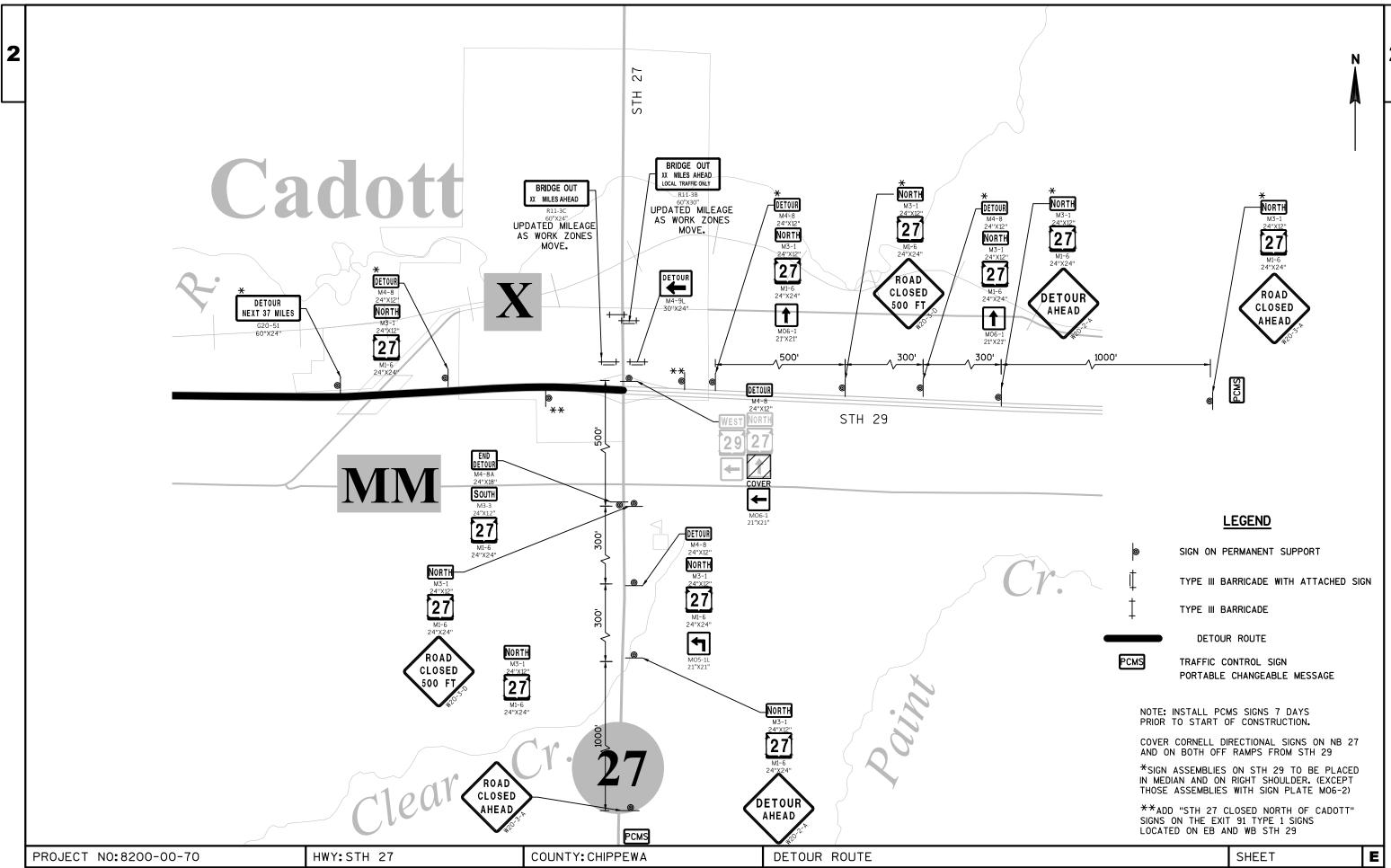


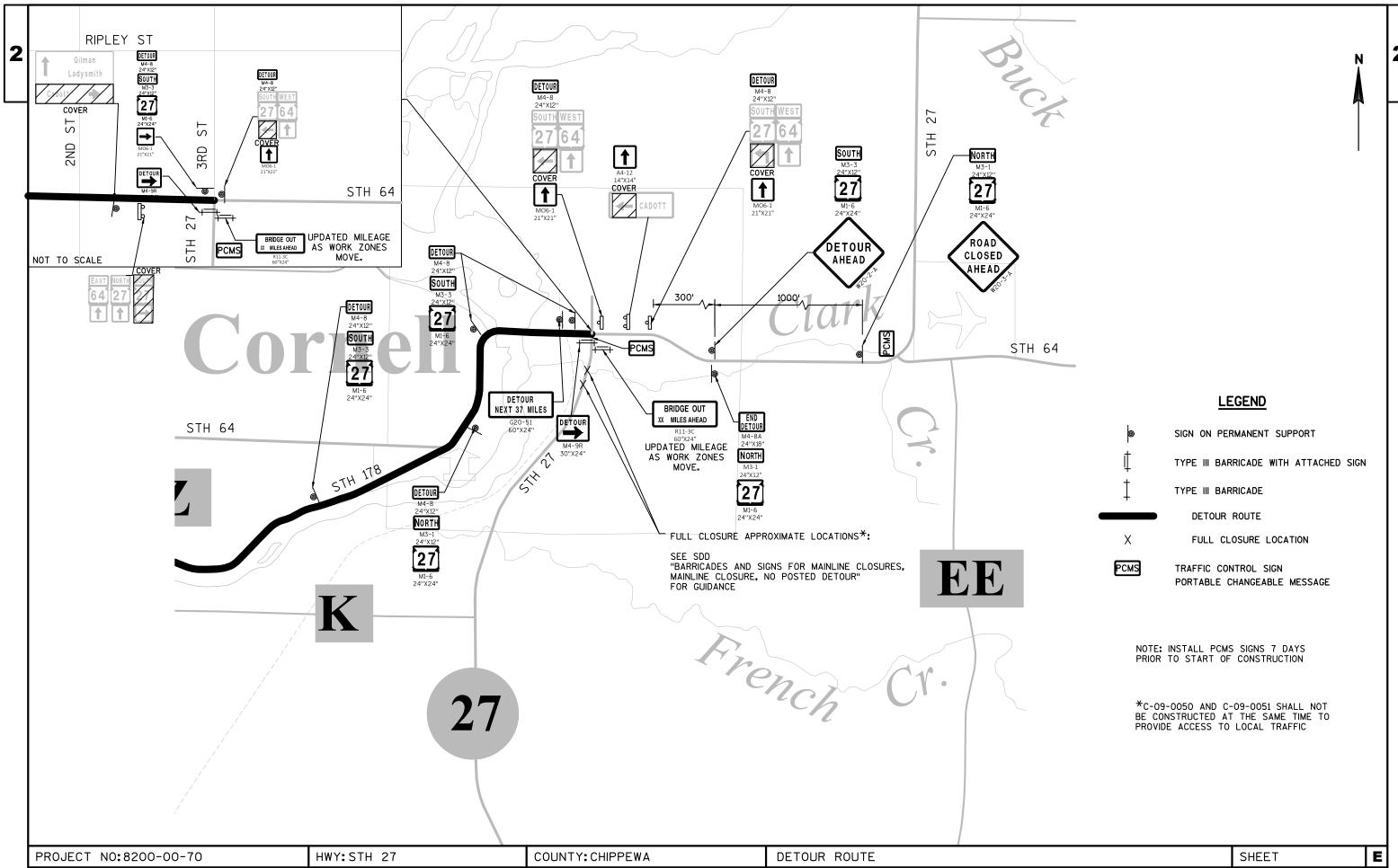


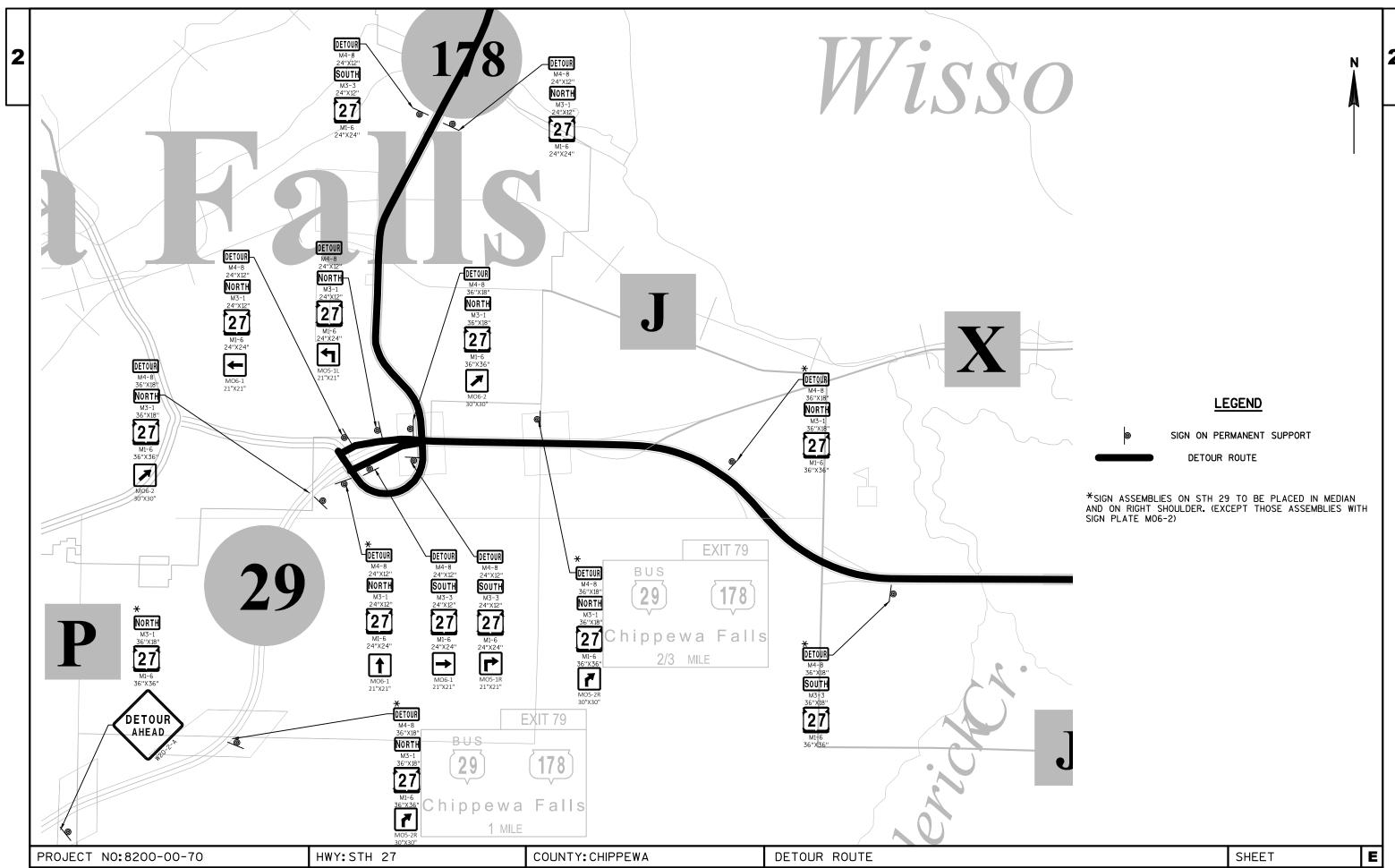


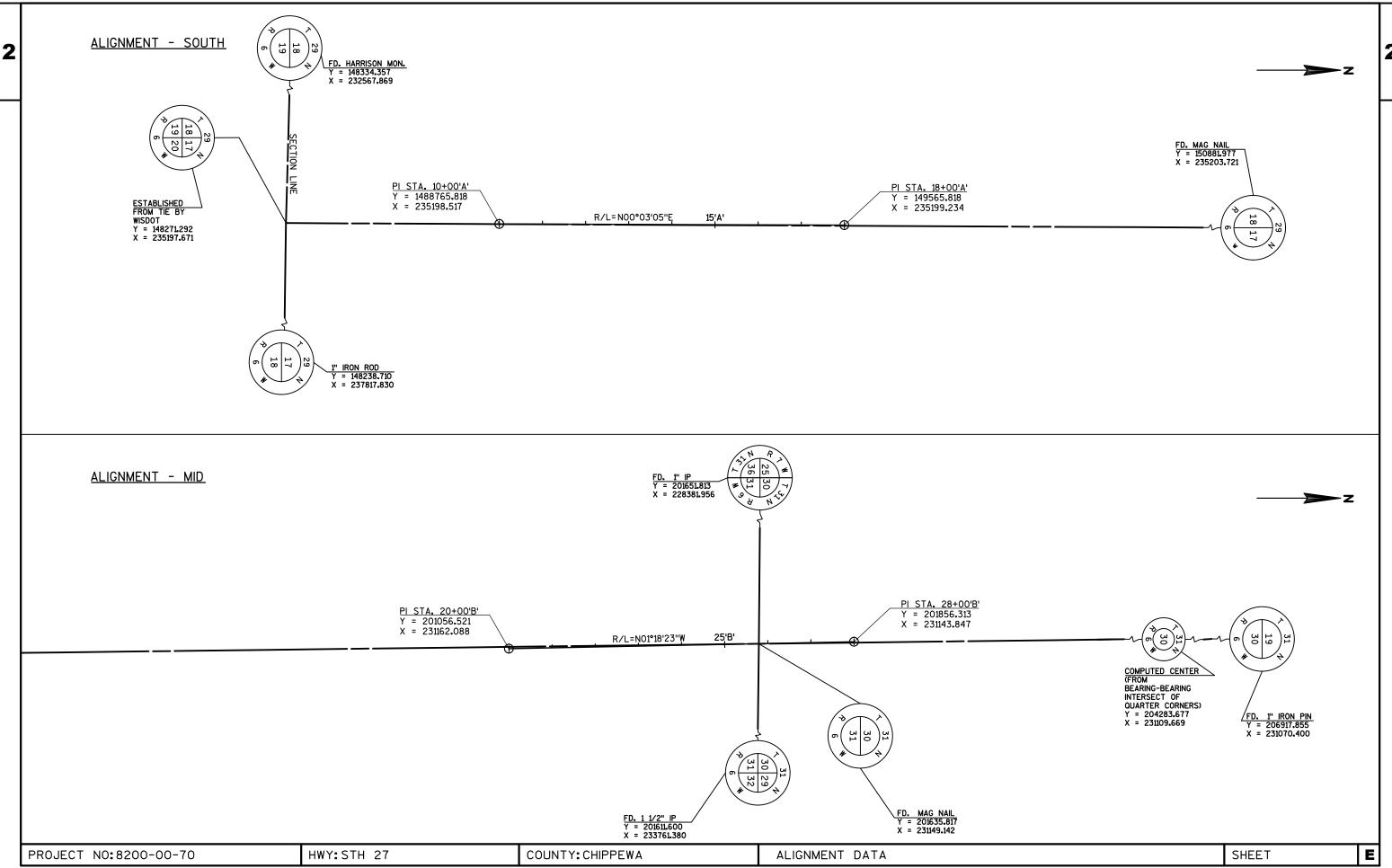


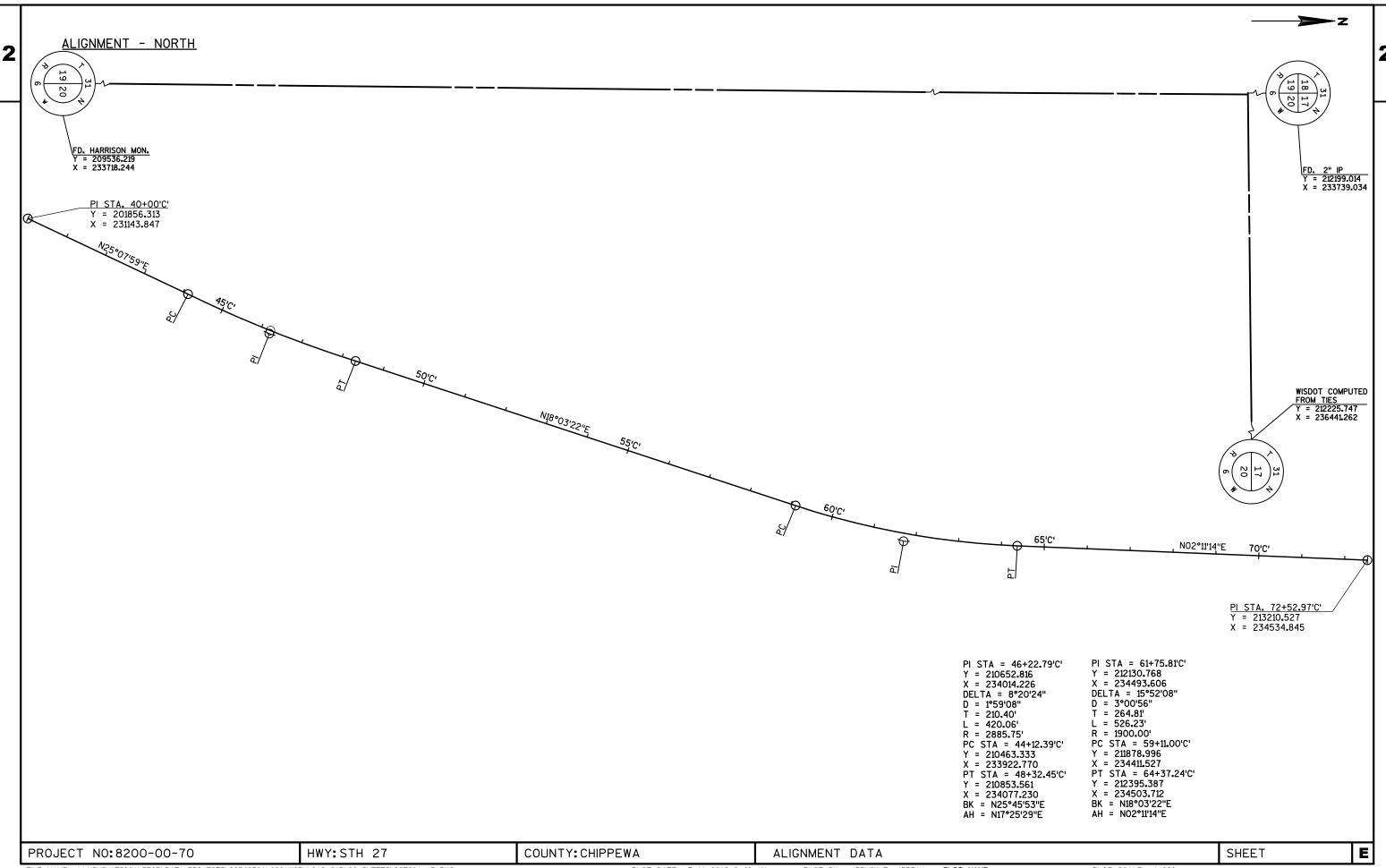












Estimate Of Quantities

8200-00-70

					8200-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	13.000	13.000
0004	201.0205	Grubbing	STA	13.000	13.000
0006	203.0200	Removing Old Structure (station) 01. 14+00	LS	1.000	1.000
0008	203.0200	Removing Old Structure (station) 02. 24+00	LS	1.000	1.000
0010	203.0200	Removing Old Structure (station) 03. 47+68	LS	1.000	1.000
0012	203.0200	Removing Old Structure (station) 04. 58+60	LS	1.000	1.000
0014	204.0100	Removing Pavement	SY	912.000	912.000
0016	204.0165	Removing Guardrail	LF	2,077.000	2,077.000
0018	204.0170	Removing Fence	LF	395.000	395.000
0020	204.0170	Removing Inlets	EACH	1.000	1.000
0020	204.0220	Removing Storm Sewer (size) 01. 12-Inch	LF	50.000	50.000
0022	205.0100	Excavation Common	CY	2,217.000	2,217.000
0024	206.2000	Excavation Common Excavation for Structures Culverts (structure) 01. B-9-	LS	1.000	1.000
0020	200.2000	388	LO	1.000	1.000
0028	206.2000	Excavation for Structures Culverts (structure) 02. C-9-	LS	1.000	1.000
		49			
0030	206.2000	Excavation for Structures Culverts (structure) 03. C-9-50	LS	1.000	1.000
0032	206.2000	Excavation for Structures Culverts (structure) 04. C-9-	LS	1.000	1.000
0002	200.2000	51	LO	1.000	1.000
0034	208.0100	Borrow	CY	5,655.000	5,655.000
0036	210.2500	Backfill Structure Type B	TON	7,679.000	7,679.000
0038	213.0100	Finishing Roadway (project) 01. 8200-00-70	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	925.000	925.000
0042	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,610.000	1,610.000
0042	311.0115	Breaker Run	CY	433.000	433.000
0044	450.4000	HMA Cold Weather Paving	TON	247.000	247.000
0048	455.0605	Tack Coat	GAL	150.000	150.000
0048	465.0105	Asphaltic Surface	TON	987.000	987.000
		·			
0052	504.0100	Concrete Masonry Culverts	CY	738.000	738.000
0054	505.0400	Bar Steel Reinforcement HS Structures	LB	91,100.000	91,100.000
0056	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	7,560.000	7,560.000
0058	516.0500	Rubberized Membrane Waterproofing	SY	103.000	103.000
0060	606.0300	Riprap Heavy	CY	297.000	297.000
0062	614.2300	MGS Guardrail 3	LF	1,150.000	1,150.000
0064	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0066	614.2620	MGS Guardrail Terminal Type 2	EACH	4.000	4.000
0068	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8200-00-70	EACH	1.000	1.000
0070	619.1000	Mobilization	EACH	1.000	1.000
0072	624.0100	Water	MGAL	25.000	25.000
	020 .00		5,	_0.000	_0.000

Estimate Of Quantities

8200-00-70	

					8200-00-70
Line	Item	Item Description	Unit	Total	Qty
0074	625.0500	Salvaged Topsoil	SY	8,498.000	8,498.000
0076	627.0200	Mulching	SY	3,115.000	3,115.000
0078	628.1504	Silt Fence	LF	2,670.000	2,670.000
0800	628.1520	Silt Fence Maintenance	LF	2,670.000	2,670.000
0082	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0084	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0086	628.2004	Erosion Mat Class I Type B	SY	11,070.000	11,070.000
8800	628.7504	Temporary Ditch Checks	LF	230.000	230.000
0090	629.0205	Fertilizer Type A	CWT	8.000	8.000
0092	630.0120	Seeding Mixture No. 20	LB	340.000	340.000
0094	630.0200	Seeding Temporary	LB	340.000	340.000
0096	630.0300	Seeding Borrow Pit	LB	35.000	35.000
0098	630.0500	Seed Water	MGAL	300.000	300.000
0100	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	5.000	5.000
0102	637.2210	Signs Type II Reflective H	SF	22.500	22.500
0104	637.2230	Signs Type II Reflective F	SF	11.120	11.120
0104	638.2602	Removing Signs Type II	EACH	5.000	5.000
0108	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0110	642.5001	Field Office Type B	EACH	1.000	1.000
0112	643.0420	Traffic Control Barricades Type III	DAY	26,058.000	26,058.000
0114	643.0705	Traffic Control Warning Lights Type A	DAY	50,298.000	50,298.000
0116	643.0900	Traffic Control Signs	DAY	1,212.000	1,212.000
0118	643.0920	Traffic Control Covering Signs Type II	EACH	48.000	48.000
0110	643.1000	Traffic Control Signs Fixed Message	SF	108.000	108.000
0120	643.1050		DAY	294.000	294.000
		Traffic Control			
0124	643.5000	Traffic Control	EACH	1.000	1.000
0126	645.0105	Geotextile Type C	SY	1,422.000	1,422.000
0128	645.0120	Geotextile Type HR	SY	591.000	591.000
0130	646.1020	Marking Line Epoxy 4-Inch	LF	6,664.000	6,664.000
0132	646.9000	Marking Removal Line 4-Inch	LF	5,112.000	5,112.000
0134	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,200.000	1,200.000
0136	650.4500	Construction Staking Subgrade	LF	410.000	410.000
0138	650.5000	Construction Staking Base	LF	410.000	410.000
0140	650.9910	Construction Staking Supplemental Control (project) 01. 8200-00-70	LS	1.000	1.000
0142	650.9920	Construction Staking Slope Stakes	LF	1,772.000	1,772.000
0144	690.0150	Sawing Asphalt	LF	1,910.000	1,910.000
0146	715.0502	Incentive Strength Concrete Structures	DOL	4,428.000	4,428.000
0148	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0150	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000

13+50'A' - 15+00'A' 23+00'B' - 25+00'B' 46+00'C' - 50+00'C' 58+00'C' - 61+50'C'	201.0105 CLEARING (STA)	201.0205 GRUBBING (STA) 3 2 4 4 4	REMOVING INLETS & REMOVING STORM SEWER 204.0245 REMOVING STORM SEWER INLETS 12-INCH COMMENTS COMMENTS
REMOVI	NG PAVEMENT 204.0100 REMOVING		BASE AGGREGATE DENSE
13+50'A' 23+50'B' 47+18'C' 58+07'C'	- STATION (SY) - 14+50'A' 222 - 24+50'B' 222 - 48+19'C' 224 - 59+17'C' 244 PROJECT TOTALS 912	COMMENTS	305.0110 305.0120 BASE BASE AGGREGATE AGGREGATE DENSE DENSE 624.0100 3/4-INCH 1 1/4-INCH WATER STATION - STATION (TON) (TON) (MGAL) COMMENTS 12+11'A' - 15+76'A' 199 300 5 21+90'B' - 25+76'B' 197 282 5 45+50'C' - 50+17'C' 146 353 5
REMOVING GUARDRAIL A	AND REMOVING FENCE 204.0165	204.0170	56+11'C' - 61+65'C' 196 353 5 UNDISTRIBUTED 187 322 5 PROJECT TOTALS 925 1,610 25
STATION - STATION 12+70'A' - 15+00'A' 12+90'A' - 14+75'A' 12+94'A' - 15+24'A' 22+20'B' - 25+37'B' 22+46'B' - 25+25'B' 22+95'B' - 25+05'B' 46+12'C' - 48+77'C' 56+98'C' - 60+62'C' 77+66'C' - 61+59'C'	REMOVING GUARDRAIL LT/RT (LF) RT 230 RT LT 230 RT 317 LT 279 LT RT 262 RT 366 LT 393	204.0170 REMOVING FENCE (LF) 185 210 395	

FILE NAME : ...\030201_mq.ppt PLOT DATE : 7/31/2019 6:53 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

EARTHWORK (PROJECT 8200-00-70)

			205.0 EXCAVATION		SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (6)		EXPANDED EBS BACKFILL		EXPANDED FILL (4)	MASS		
									UNEXPANDED		ORDINATE +/-		208.0100
DIVISION	FROM/TO STATION	LOCATION	CUT (2)	EBS (3)			FACTOR	FACTOR	FILL	FACTOR	(5)	WASTE	BORROW
							0.00	1.30		1.30			
1	12+09.30'A' - 15+76.68'A'	Seth Creek	388	0	195	193	0	0	630	820	-626	195	626
	21+99.24'B' - 25+62.38'B'	Leman Creek	386	0	193	193	0	0	1844	2397	-2204	193	2,204
	45+50.14'C' to 50+16.88'C'	Unnamed Tributary	648	0	128	520	0	0	1462	1888	-1369	128	1,369
	56+11.40'C' to 61+65.20'C'	Clark Creek	595	0	116	479	0	0	1495	1935	-1456	116	1,456
	UNDISTRIBUTED		0	200	0	0	0	260	0	0	0	200	0
DIVISION 1 SUBTOTAL			2017	200			0	260	5431	7040	-5655	832	5,655
PROJECT TOTALS	,		2,2	17			0	260	5,431	7,040	-5,655	832	5,655

- 1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS.
- 2) SALVAGED/UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 3) EBS EXCAVATION TO BE BACKFILLED WITH BORROW, OR COMMON EXCAVATION AS DIRECTED BY THE ENGINEER
- 4) EXPANDED FILL = UNEXPANDED FILL* FILL FACTOR
- 5) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- 6) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL

PROJECT NO: 8200-00-70 HWY: STH 27 COUNTY: CHIPPEWA MISCELLANEOUS QUANTITIES SHEET E

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HMA PAVEMENT ITEMS

STATION	- STATIO	PAVEMENT DEPTH DN (INCHES)	465.0105 ASPHALTIC SURFACE (TON)	455.0605 TACK COAT (GAL)	450.4000 HMA COLD WEATHER PAVING (TON)
13+50'A'	- 14+50'	A' 7.5	160	30	
23+50'B'	- 24+50'		160	30	
47+18'C'	- 48+19'	C' 7.5	436	40	
58+07'C'	- 59+17'	C' 7.5	230	50	
UNDISTRI	BUTED				247
		PROJECT TOTALS	987	150	247

MGS GUARDRAIL AND TERMINALS

								614.2610		614.2620
								MGS		MGS
					6	14.2300	(GUARDRAIL		GUARDRAIL
						MGS		TERMINAL		TERMINAL
					GU/	ARDRAIL 3		EAT		TYPE 2
STATION	-	STATION	LO	CATION		(LF)		(EACH)		(EACH)
										_
45+73'C'	-	48+76'C'		RT		250.0		1		1
46+83'C'	-	50+11'C'		LT		275.0		1		1
57+00'C'	-	60+53'C'		RT		300.0		1		1
57+68'C'	-	61+46'C'		LT		325.0		1		1
						1.150.0		4	-	4

630.0120 SEEDING

MIXTURE

NO. 20

(LB)

21

35

630.0200

SEEDING

(LB)

21

35

36

29

38

35

630.0300

SEEDING

(LB)

30

TEMPORARY BORROW PIT

630.0500

SEED

WATER

(MGAL)

21

17

29

30

24

28

28

40 25

58

300

SALVAGED TOPSOIL, MULCHING, FERTILIZER, SEEDING, & TEMPORARY SEEDING

625.0500

SALVAGED

(SY)

783

544

1,056

1,118

1,279

1,157

1,575

--

986

MAINTENANCE AND REPAIR OF HAUL ROADS

618.0100

1

MAINTENANCE AND REPAIR OF HAUL ROADS **EACH** PROJECTID

PROJECT TOTAL

8200-00-70

TOPSOIL LOCATION STATION - STATION 10+99'A' - 16+21'A' RT 12+20'A' - 15+77'A' LT RT 21+99'B' - 25+62'B' - 25+50'B' LT 22+27'B' 45+49'C' - 48+76'C' RT 46+17'C' - 50+17'C' LT 56+11'C' - 60+57'C' RT 57+58'C' - 61+65'C' LT **BORROW PIT** UNDISTRIBUTED

70 2,004 70 PROJECT TOTALS 8,498 3,115 8.0 340 340 35

629.0205

FERTILIZER

TYPE A

(CWT)

0.7

0.5

0.8

0.8

0.9

8.0

1.1

627.0200

MULCHING

(SY)

1,111

COUNTY: CHIPPEWA PROJECT NO: 8200-00-70 HWY: STH 27 MISCELLANEOUS QUANTITIES SHEET

FILE NAME : ...\030201_mq.ppt PLOT DATE : 7/31/2019 6:53 AM PLOT NAME : 030201_mq PLOT SCALE: 1.000000:1.000000 WISDOT / CADDS SHEET 42

EROSION CONTROL ITEMS

STATION	- STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)
40 40141	45 50141	DT	0/4	0/4		24		
12+10'A'	- 15+50'A'	RT	264	264		24		
12+10'A'	- 15+50'A'	RT			922			
12+20'A'	- 15+80'A'	LT	332	332		16		
12+20'A'	- 15+80'A'	LT			743			
22+00'B'	- 25+60'B'	RT			1291			
22+00'B'	- 25+60'B'	RT	155	155		16		
22+90'B'	- 25+70'B'	LT			1345			
22+90'B'	- 25+70'B'	LT	275	275				
45+45'C'	- 48+90'C'	RT	156	156		32		
45+45'C'	- 48+90'C'	RT			957			
46+15'C'	- 50+10'C'	LT	347	347		16		
46+15'C'	- 50+10'C'	LT			1239			
56+10'C'	- 60+60'C'	RT	322	322		48		
56+10'C'	- 60+60'C'	RT			917			
57+50'C'	- 61+55'C'	LT	284	284		32		
57+50'C'	- 61+55'C'	LT			1440			
	UNE	DISTRIBUTED	535	535	2216	46	5	4
	PRO.	JECT TOTALS	2,670	2,670	11,070	230	5	4

SIGNS TYPE II AND POSTS

		637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	634.0616 POSTS WOOD 4X6-INCH-16 FT	
STATION	LOCATION	(SF)	(SF)	(EACH)	DESCRIPTION
11+95'A' 23+90'B' 46+49'C'	LT LT RT	 7.50	5.56 5.56 	1 1 1	NO PASSING ZONE NO PASSING ZONE SPEED LIMIT 45 MPH
60+28'C' 60+95'C'	RT LT	7.50 7.50		1 1	SPEED LIMIT 25 MPH SPEED LIMIT 45 MPH
	PROJECT TOTALS	22.50	11.12	5	

TRAFFIC CONTROL - DRUMS, BARRICADES, WARNING LIGHTS, ARROW BOARDS, AND SIGNS

		,	•	•				
	PROJECT TOTALS	26,058	50,298	1,212	48	108	294	
3rd ST	303			4 1212				DETOUR SIGNING, 3 CYLCES
<u>STH 64</u>	303			32 9696	21			DETOUR SIGNING, 3 CYLCES
<u>STH 178</u>	303			78 23634				DETOUR SIGNING, 3 CYLCES
<u>STH 29</u>	303			137 41511	18	108	1 98	DETOUR SIGNING, 3 CYLCES
<u>STH 27</u>	303	86 26,058	166 50,298	75 22725	9		2 196	DETOUR SIGNING, 3 CYLCES
ROADWAY	DAYS IN SERVICE	643.0420 BARRICADES TYPE III NO. (DAYS)	643.0705 WARNING LIGHTS TYPE A NO. (DAYS)	643.0900 SIGNS NO. (DAYS)	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II NO.	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE (SF)	643.1050 TRAFFIC CONTROL SIGNS PCMS NO. (DAYS)	COMMENTS

REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS

STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	DESCRIPTION
11+95'A' 23+90'B' 46+49'C' 60+28'C' 61+50'C'	LT LT RT RT LT	1 1 1 1	1 1 1 1 1	NO PASSING NO PASSING SPEED LIMIT 45 MPH SPEED LIMIT 25 MPH SPEED LIMIT 45 MPH
	PROJECT TOTALS	5	5	

PROJECT NO: 8200-00-70 HWY: STH 27 COUNTY: CHIPPEWA MISCELLANEOUS QUANTITIES

FILE NAME: ...\030201_mq.ppt

PLOT DATE: 7/31/2019 11:45 AM PLOT BY: PLOT NAME: 030201_mq PLOT SCALE: 1.00000:1.00000 WISDOT / CADDS SHEET

		646.01 EPOXY 4-		646.9000 MARKING	649.0150 TEMPORARY MARKING LINE		
		YELLOW	WHITE	REMOVAL LINE 4-INCH	REMOVABLE TAPE 4-INCH		
STATION	- STATION	(LF)	(LF)	(LF)	(LF)	COMMENTS	
2.11101	15.7/\\	AE.	720	024			
12+11'A' 21+90'B'	- 15+76'A' - 25+76'B'	456 622	730 772	836 1,032			
5+50'C'	- 50+17'C'	934	934	1,468			
6+11'C'	- 61+65'C'	1,108	1,108	1,776			
	UNDISTRIBUTED				1,200	TEMPORARY MARKING FOR FESTIVAL EVENTS IF NEEDED	
	SUBTOTALS	3,120	3,544	5,112	1,200		
	TOTAL FOR 646.0106	6,664	l				
	PROJECT TOTALS		6,664	5,112	1,200		

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			650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)	650.9920 CONSTRUCTION STAKING SLOPE STAKES
STATION	-	STATION	(LF)	(LF)	(LS)	(LF)
12+11'A'	_	15+76'A'	100	100		365
21+90'B'	-	25+76'B'	100	100		386
45+50'C'	-	50+17'C'	100	100		467
56+11'C'	-	61+65'C'	110	110		554
		PROJECT TOTALS	410	410		1,772

SAWNG ASPHALT

				690.0150 SAWING
CTATION		CTATION	LOCATION	ASPHALT
STATION	-	STATION	LOCATION	(LF)
12+11'A'	-	13+50'A'	LT & RT	260
14+50'A'	-	15+76'A'	LT & RT	252
21+90'B'	-	23+50'B'	LT & RT	324
24+50'B'	-	25+76'B'	LT & RT	271
46+18'C'	-	47+19'C'	LT & RT	145
48+19'C'	-	50+17'C'	LT & RT	239
56+77'C'	-	58+07'C'	LT & RT	173
59+17'C'	-	61+26'C'	LT & RT	246
			PROJECT TOTALS	1,910

PROJECT NO: 8200-00-70 HWY: STH 27 COUNTY: CHIPPEWA MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : ...\030201_mq.ppt PLOT DATE : 7/31/2019 6:53 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET

8200-00-20

CADOTT - CORNELL

100TH AVENUE TO SOUTH STREET/4-CULV

STH 27

CONVENTIONAL SYMBOLS **CHIPPEWA COUNTY** R/W MONUMENT • SECTION LINE SECTION C-09-0051 CORNER C-09-0050 QUARTER LINE NON-MONUMENTED O SYMBOL CLARK CREEK R-5-WUNNAMED TRIBUTARY SIXTEENTH LINE SECTION FOUND IRON PIN (1-INCH UNLESS NOTED) * NEW REFERENCE LINE CORNER NEW R/W LINE CLEVELANÎ GEODETIC SURVEY MONUMENT EXISTING R/W OR HE LINE SIXTEENTH CORNER MONUMENT PROPERTY LINE OFF-PREMISE (1-25) SIGN LOT, TIE & OTHER Cornell SIGN MINOR LINES SLOPE INTERCEPT T-31-N NON-COMPENSABLE COMPENSABLE ELECTRIC POLE 111111111 CORPORATE LIMITS TELEPHONE POLE UNDERGROUND FACILITY PEDESTAL (LABEL TYPE) **ESTELLA** (TV. TEL. ELEC. ETC.) //// (HATCHING VARIES BY OWNER) ACCESS RESTRICTED BY ACQUISITION TEMPORARY LIMITED NO ACCESS (BY STATUTORY AUTHORITY) EASEMENT AREA C-09-0049 EASEMENT AREA (PERMANENI LIMITEU OR ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL) LEMAN CREEK RESTRICTED DEVELOPMENT) NO ACCESS (NEW HIGHWAY) IP POINT NUMBER UTILITY NUMBER (40) PARCEL NUMBER (25) 4021) R/W POINT NUMBER BUILDING TO BE REMOVED 1647) TLE POINT NUMBER POINT PARALLEL OFFSETS T-30-N CONVENTIONAL ABBREVIATIONS B-09-0388 ACCESS RIGHTS POINT OF CURVATURE SETH CREEK ACRES POINT OF COMPOUND CURVE PCC AHEAD POINT OF INTERSECTION ALUMINUM PROPERTY LINE ET AL AND OTHERS RECORDED AS (100') BACK REEL / IMAGE R/I BLOCK REFERENCE LINE R/L CENTERLINE REMAINING REM GOETZ CERTIFIED SURVEY MAP CSM RESTICTIVE DEVELOPMENT RDE CONCRETE CONC EASEMENT COLINTY RIGHT Boyd COUNTY TRUNK HIGHWAY RIGHT OF WAY R/W T-29-N DISTANCE DIST SECTION SEC CORNER SEPTIC VENT SEPV DOCUMENT NUMBER DOC SOLIARE FEET FASEMENT STATE TRUNK HIGHWAY FASE STH FXTSTING FX STATTON $ST\Delta$ TELEPHONE PEDESTAL FOUND FD GAS VALVE TEMPORARY LIMITED TLE T-28-N FASEMENT GRID NORTH GN HIGHWAY EASEMENT TRANSPORTATION PROJECT HF IDENTIFICATION ID PLAT TRON PTN UNITED STATES HIGHWAY USH LAND CONTRACT LC VOLUME EASTING COORDINATE CONVENTIONAL UTILITY LEFT MONUMENT NORTHING COORDINATE MON SYMBOLS NATIONAL GEODETIC SURVEY NGS CURVE DATA NUMBER LAYOUT NOT TO SCALE LONG CHORD TELEPHONE OUTLOT

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8200-00-20

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), CHIPPEWA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY $\frac{3}{4}$ " X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN EAU CLAIRE.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 27 SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DIVISION JOB 6301, PLAT OF SURVEY 1655, CSM 3466, PLAT OF SURVEY 003267b

EXISTING SECTION CORNER AND PROPERTY CORNER INFORMATION PROVIDED BY WISDOT NORTHWEST REGION.

> RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 8200-00-20 - 4.01 SHEET 02 OF 02

FILE NAME: P:\60549591\400 TECHNICAL\433 SURVEY-MAP\60549591\60549591\RW\040100 RP.DWG APPRAISAL PLAT DATE: FEBRUARY 4, 2019

LCB

A /DFI TA

DΔ

DB

OVERHEAD

ELECTRIC

CABLE TELEVISION FIBER OPTIC

SANTTARY SEWER

LONG CHORD BEARING

CENTRAL ANGLE

DIRECTION AHEAD

DIRECTION BACK

LENGTH OF CURVE

RADIUS DEGREE OF CURVE

PLE

PLOT BY : ARBUCKLE, ADRIAN PLOT NAME : _____

POINT OF TANGENCY

PERMANENT LIMITED

POINT OF BEGINNING

EASEMENT

EXISTING PL DIMENSIONS TO SECTION LINE.

REFERENCE LINE DOES NOT FOLLOW THE SECTION LINE.

PI STA = 5+05.47'A'

Y = 148271.285

X = 235198.073

PI STA = 19+00.00'A'

Y = 149665.820

X = 235199.324

SCALE, FEE

20

LOCATION

THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: Michael Pollin DATE: 02/05/09

NORTHWEST REGION - FAU CLAIRE

PRINT NAME: MICHAEL PILLER

REGISTER OF DEEDS

TRANSFER FEE: FEE EXEMPT: CHIPPEWA COUNTY, WI PAGES: 1

**The above recordi verifies that this

4

(11042)

/FD. 1" IRON PIN

= 206917.855

(= 231070.400

837

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 8200-00-20-4.02 AMENDMENT NO:__

LINE

DETAIL 'B'

COMPUTED CENTER

QUARTER CORNERS) Y = 204283.677

ALIGNMENT

QUARTER LINE

DETAIL 'A

RODERICK D. STEEGE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN

HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT 8200-00-20-4.02

ULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN

STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION.

BFARING-BEARING

INTERSECT OF

X = 231109.669

FROM

N.T.S.

51

ALIGNMENT

QUARTER LINE

11152

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT. TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION THE PROTECTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CHARTER COMMUNICATIONS

SEE DETAIL 'A'

837)

833

UTILITY SCHEDULE & INTEREST REQUIRED

CHIPPEWA VALLEY ELECTRIC COOPERATIVE

WISCONSIN GAS LLC D/B/A WE ENERGIES

CENTURYTEL OF THE MIDWEST-KENDALL, LLC D/B/A CENTURYLINK

R-7-W 13

24

LITILITY OWNER

TRANSPORTATION PROJECT PLAT NO: 8200-00-20 - 4.02

RELOCATION ORDER STH 27 CHIPPEWA COUNTY, CADOTT - CORNELL (100TH AVENUE TO SOUTH STREET/4-CULV)

TRANSFER OF EASEMENT RIGHTS TO WISCONSIN GAS - UTIL 202

ALL IN TOWNSHIP 31 NORTH, RANGE 6 WEST, TOWN OF ESTELLA, CHIPPEWA COUNTY, WISCONSIN

THAT PART OF THE NE 1/4 OF THE NW 1/4 AND THAT PART OF THE NW 1/4 OF THE NE 1/4 OF SECTION 31.

25+79,45 B 0.00 23+40.00'B' 68.38 22+61.92'B' 62.24 763 22+62.08'B' 82.24 789 (R/L)20+00.00'B 0.00 790 (R/L)28+00.00'B' 0.00 23+35.00'B' 819 81.67 820 23+84.00 'B 143.00 821 24+46.00'B' 80.79 24+71.24 'B' 69.41 826 24+60.00'B' 100.00 827 23+90.00'B' 104.00 20+00.00'B' 829 64.31 830 25+81.73'B' 79.72 25+81.01'B' 28+00.00'B' 52.99 28+00.00'B' 833 72.01 25+77.20'B' 834 70.25 835 20+00.00'B' 65.69 837 28+00.00'B' 2.01 939 24+14.00'B' 128.00' 25+79.44'B' 0.27 0-09-0049 TOWN (763) 819

R/W STATION AND OFFSET TABLE

STATION

23'B'

67

RIGHT OF WAY COURSE TABLE CONT.

BEARING

N 89°28'08" W

S 0°51'15" E

S 0°51'15" E

(820)

R/L=N01°18'23"W

(827)

NW-NE

ESTELLA

0°51'15" E

N 89°28'08"

DISTANCE

70.02

2542.33

2634.47

2427.59

NE-NW

CR

MAN

ш

939

220.56

(11151)

). 1" IP = 201651.813

X = 228381.956

821

25'B'

825

826

STH 27

36

(830)

COMPANY, LLC

DOC. #690660

DOC. #700235

PARCEL 3

831

(834)

51

26'B'

RIGHT OF WAY EASEMENT - UTIL 201

27'B'

SEE DETAIL 'B'

CHIPPEWA VALLEY ELECTRIC COOPERATIVE

(832)

NUMBER

201

202

203

FD. MAG NAIL

X = 231149.142

= 201635-817

11152

PARCEL 3

PARCEL 4

FROM - TO

1153 - 834

11152 - 834

11042 - 753 753 - 837

837 - 11152

OFFSET

762

A

Y = 201856.313

X = 231143.847

2612.35 CHIPPEWA VALLEY ELECTRIC COOPERATIVE

Y = 201056.521

X = 231162.088

DISTANCE

218.99

52.99

70.00

222.81

105.96

32.59

70.11

61.39

65.69'

64.31

261.93

20.00

72.92

78.50' 33.54'

57.03'

25.01

54.75

55.01

2687.22

2767.23

0.27

135.73

340.01

2.01

POINT

(789) CENTURYLINK DIVISION JOB 6301 -OF REFERENCE LINE

PI STA = 20+00.00'B' PI STA = 28+00.00'B'

RIGHT OF WAY GRANT - UTIL 203 WISCONSIN TELEPHONE COMPANY (CENTURYLINK) V. 356 P. 384 DOC. #347145 QUIT CLAIM DEED TO MIDWEST-KENDALL

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET,

AS SHEET 2 OF 2 OF DOCUMENT NO. 886184.

RIGHT OF WAY COURSE TABLE

FROM - TO

831 - 832

837 - 833

833 - 834

834 - 825

825 - 826

826 - 827

827 - 67

67 - 835

829 - 762

762 - 763

763 - 819

819 - 820

820 - 939

939 - 821

821 - 830

830 - 831

|51 - 11152

11152 - 831

11151 - 830

11151 - 11152

11152 - 1153

831 - 51

835 - 789 (R/L

789 (R/L) - 829

832 - 790 (R/L

790 (R/L) - 837

RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN CHIPPEWA COUNTY

BEARING

N 88°41'37"

N 88°41'37"

N 88°41'37'

S 0°51'15"

S 0°51'15"

S 71°07'35"

S 34°09'48"

S 0°51'15"

S 4°34'37" E

S 88°41'37" W

S 88°41'37" W

S 89°08'47" W

N 0°51'15" W

N 52°41'05" W

N 25°15'31'

N 54°33'47"

N 0°51'15" W

S 89°40'08" E

S 89°40'08" W

N 89°40'08" W

N 89°40'08" W

S 89°40'08" E

S 89°28'08" E

(829)

(835)

S 89°40'08"

N 0°51'15" W

0°51'15" W

DOC. #586239 PARCEL 4

COORDINATES (WISCRS), CHIPPEWA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. EXISTING SECTION CORNER AND PROPERTY CORNER INFORMATION PROVIDED BY

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM

WISDOT NORTHWEST REGION. FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING LINIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION OFFICE IN EAU CLAIRE. EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF

EXISTING RIGHT OF WAY FOR STH 27 IS ESTABLISHED FROM PREVIOUS DIVISION JOB 6301.

SCHEDULE OF LANDS & INTEREST REQUIRED AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT. AREAS SF REQUIRED NEW EXISTING TOTAL PAMELA J. HERRELL FEE 3,894 -----3,894

3,360 ---- 3,360 JANICE L. CURRIE FEE

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY

CTH K FD. 1 1/2" IP Y = 201611.600 X = 233761.380 195TH AVE 36 LOCATION SCALE. FEET

25 29

20

LOCATION SKETCH

19

SE-SW

SW-SE

INTEREST

REQUIRED

RELEASE OF RIGHT

RELEASE OF RIGHT:

RELEASE OF RIGHTS

AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR
BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE:

DATE: 02/11/19 PRINT NAME: RODERICK D. STEEGE REGISTRATION NUMBER: 1761

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - FALL CLATRE

SIGNATURE: __Michael Balles DATE: 02/11/19 PRINT NAME: MICHAEL PILLER

PLOT BY: ARBUCKLE, ADRIAN PLOT NAME :

PLOT DATE: 2/11/2019 11:22 AM

8200-00-20-4.02__

FILE NAME : P:\60549591\400_TECHNICAL\433_SURVEY-MAP\60549591\60549591\RW\040101_RP.DWG APPRAISAL PLAT DATE : FEBRUARY 11, 2018

TRANSFER FEE: FEE EXEMPT: CHIPPEWA COUNTY, WI PAGES: 1

**The above recording inform verifies that this d

4

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 8200-00-20-4.03 AMENDMENT NO:__

HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES. EXISTING MONUMENTS 210198.670 | 233859.784 1" REBAR 1" REBAR 210739.220 | 234112.459

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

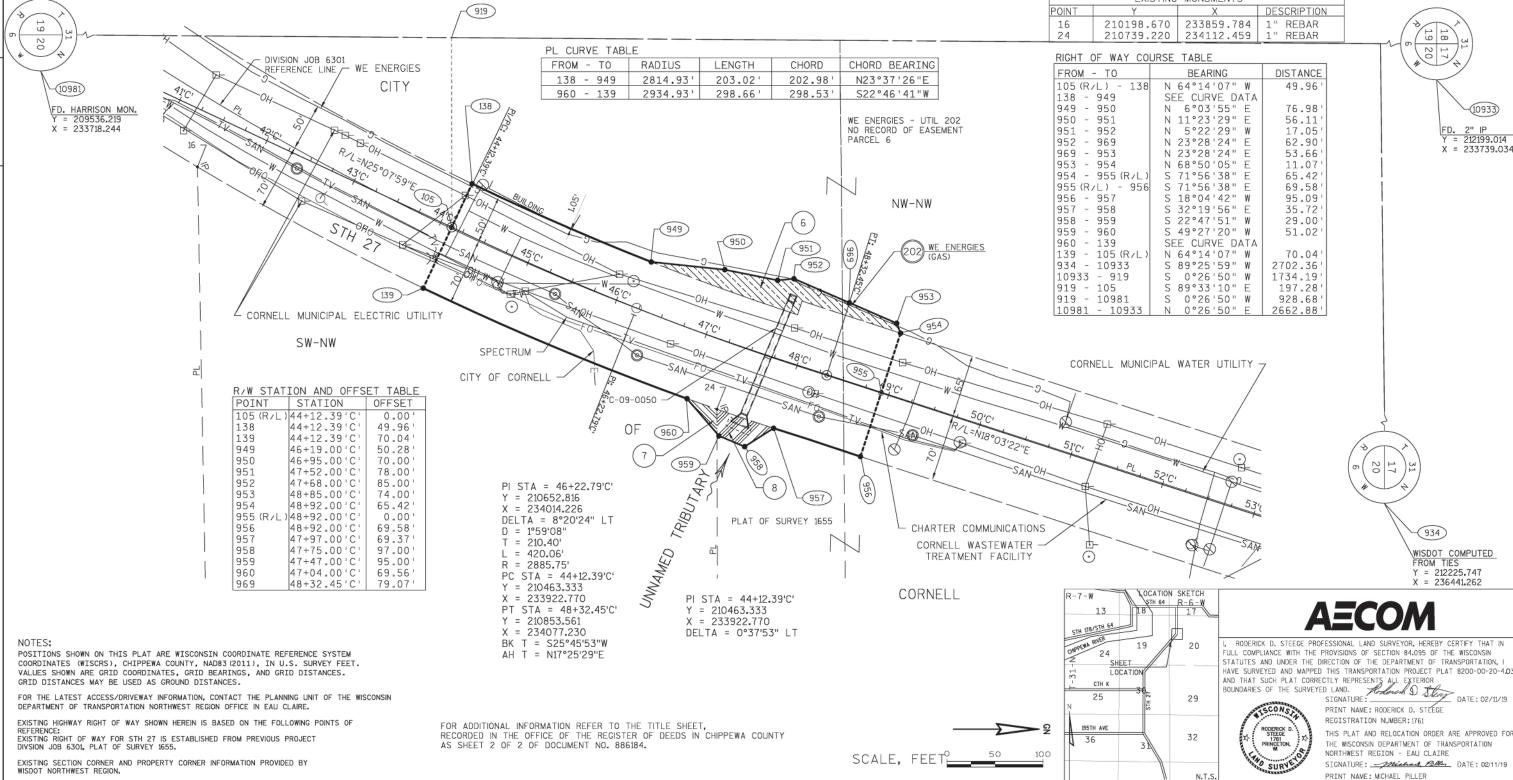
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION

THAT PART OF THE NW 1/4 OF THE NW 1/4 AND THAT PART OF THE SW 1/4 OF THE NW 1/4 OF SECTION 20.

TRANSPORTATION PROJECT PLAT NO: 8200-00-20 - 4.03

RELOCATION ORDER STH 27 CHIPPEWA COUNTY, CADOTT - CORNELL (100TH AVENUE TO SOUTH STREET/4-CULV)

TOWNSHIP 31 NORTH, RANGE 6 WEST, CITY OF CORNELL, CHIPPEWA COUNTY, WISCONSIN



OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

4.438

393

1,241

PLE SF

AREAS SF REQUIRED

4.438

393

1,241

INTEREST

REQUIRED

RELEASE OF RIGHTS

NEW EXISTING TOTAL

REQUIRED

FEE

FEE

FEE

SCHEDULE OF LANDS & INTEREST REQUIRED

UTILITY SCHEDULE & INTEREST REQUIRED

202 WISCONSIN GAS LLC D/B/A/ WE ENERGIES

LITILITY OWNER

KURT MANUFACTURING COMPANY, INC.

MINNESOTA CORPORATION

HAROLD B. & FERN E. HALL

CORNELL CORPORATION

NUMBER

REC.
TRANSFER FEL.
FEE EXEMPT:
CHIPPEWA COUNTY, WI
PAGES: 1
recording infor

**The above record

(10933)

= 212199.014

X = 233739.034

4

RESERVED FOR REGISTER OF DEEDS

PROJECT NUMBER 8200-00-20-4.04

AMENDMENT NO:_

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

PART OF LOT 1, CERTIFIED SURVEY MAP NO. 3466 AND THAT PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION

TRANSPORTATION PROJECT PLAT NO: 8200-00-20 - 4.04

RELOCATION ORDER STH 27 CHIPPEWA COUNTY, CADOTT - CORNELL (100TH AVENUE TO SOUTH STREET/4-CULV)

20, TOWNSHIP 31 NORTH, RANGE 6 WEST, CITY OF CORNELL, CHIPPEWA COUNTY, WISCONSIN

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POINT X DESCRIPTION 211863.162 234479.960 1" IRON PIN 212160.379 234551.417 1" IRON PIN 212162.336 234669.413 FD NAIL PL CURVE TABLE FROM - TO RADIUS LENGTH CHORD | CHORD BEARING (912) 305.69' S13°31'07"W 37 - 36 1980.75' 305.99' 20 CORNELL WASTEWATER TREATMENT FACILITY CORNELL MUNICIPAL WATER UTILITY 908 FOR RIPRAP / RIGHT OF WAY COURSE TABLE (10981) PLACEMENT 905 WE ENERGIES FROM - TO 500 SF 905 (R/L) - 908 DIVISION JOB 6301 = 209536.219 REFERENCE LINE 988 908 - 971 X = 233718.244C-09-0051 971 - 972 993 972 - 993 985 (972) 993 - 973 989 973 - 974 R/W STATION AND OFFSET TABLE 59+ 974 - 975 POINT STATION OFFSET 0 975 - 976 (R/L) 59+16.94'C' 69.98' 976 (R/L) - 37 62+12.03 C 70.47 37 - 36 -SAMOH-905 (R/L _)|54+65.00'0 0.00 Ø) 36 - 977 54+65.00 C 907 69.80 977 - 978 908 54+65.00'0 65.20 978 - 979 935 56+77.00 °C 69.88 938 979 - 980 SANDI 907 936 56+61.00'C 82.00 980 - 935 Ø 937 56+47.00 C 82.00 935 935 - 936 938 56+28.00 °C 69.86 CITY OF CORNELL 936 - 937 937 57+75.00'0 65.08 STHE 937 - 938 972 57+82.00 C 87.00' 980 938 - 907 CSM 3466 973 59+11.00 C 93.00 936 907 - 905 (R/L) 61+40.00 C 80.00 977 934 - 10933 975 61+78.00 C 64.60 33' INGRESS/EGRESS EASEMENT 36 10933 - 912)61+94.90°C 976 (R) 0.00 PER CSM FOR LOT 2 990 912 - 905 977 58+98.00 C 69.96 912 - 10981 978 58+82.00 C 85.00' 10981 - 10933

ARK

7

CORNELL

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

9,021 ---- 9,021 500 1,192

213

PLE SF

582

AREAS SF REQUIRED

1,192

213

FFF/TLF

FEE/TLE

FEE

EXISTING MONUMENTS

NEW EXISTING TOTAL

SCHEDULE OF LANDS & INTEREST REQUIRED

OWNER

NUMBER

12

4

979

980

993

POTNT

915

985

988

989

990

991

REFERENCE:

58+22.00 'C'

58+22.00 'C'

58+43.00 C

STATION

TLE STATION AND OFFSET TABLE

59+11.00 C

58+93.00 C

58+43.00 °C

58+22.00 C

58+81.89'C'

58+93.00'C' 103.00

GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

85.00

69.93

93.00'

OFFSET

93.00

93.00

95.00

95.00

103.00

9 JOHN S. OLYNICK

DANIEL PAULI

MICHAEL V. & HOPE M. JONES

TLE FOR RIPRAP PLACEMENT 582 SF 810 SF / 915 PLAT OF LOT 1 SURVEY CSM 3466 991 CR. 003267Ь DOC. 748438 V. 16 CSM P. 39

> NW-NW CORNELL MUNICIPAL ELECTRIC UTILITY PI STA = 61+75.81'C' PC TO 976 Y = 212130.768R = 1900.00'X = 234493.606DELTA = 8°33'40" LT DELTA = 15°52'08" LT T = 142.21' $D = 3^{\circ}00'56''$ L = 283.90T = 264.81LCH = 283.63'L = 526.23LCB = N13°46'32"E

R = 1900.00'PC STA = 59+11.00'C' Y = 211878.996X = 234411.527PT STA = 64+37.24'C' Y = 212395.387X = 234503.712BK T = N02°11'14"E

AH T = $N09^{\circ}29'42''E$

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN CHIPPEWA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 886184.

LOCATION SKETC STH 64 R-6-W 13 19 24 LOCATION стн к 25 29 195TH AVE 32 36

RODERICK D. STEEGE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN ILL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION. HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT 8200-00-20-4.0

AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR
BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE:

DATE: 02/11/19 PRINT NAME: RODERICK D. STEEGE

REGISTRATION NUMBER: 1761 THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EALL CLATRE

934

WISDOT COMPUTED FROM TIES

Y = 212225.747 X = 236441.262

SIGNATURE: ________ DATE: 02/11/19 PRINT NAME: MICHAEL PILLER

BEARING

N 71°56'37" W

N 54°13'49" W

N 12°26'19" E

N 18°03'22" E

N 18°00'11" E

N 85°19'51" E

N 85°19'51" E

SEE CURVE DATA

5 18°04'42" W

S 25°09'58" E

S 18°03'22" W

N 71°56'37" W

S 18°04'42" W

S 19°05'30" E

S 18°03'22" W

S 50°38'03" W

18°04'42" W

N 71°56'37" W

S 89°25'59" W

S 0°26'50" W

N 90°00'00" E

S 0°26'50" W

N 0°26'50" E

N 33°25'05"

18°04'42"

65.20

310.00

23.01

61.29

68.00

218.83

39.66

66.70

72.59

19.16

21.96

60.00

15.07

20.07

14.00

22.55

163.00

2702.36

744.08

540.06

1918.80

2662.88

69.80

145.00

EXISTING SECTION CORNER AND PROPERTY CORNER INFORMATION PROVIDED BY

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), CHIPPEWA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET.

VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF

EXISTING RIGHT OF WAY FOR STH 27 IS ESTABLISHED FROM PREVIOUS PROJECT, DIVISION JOB 6301, CSM 3466 AND PLAT OF SURVEY 003267b.

DEPARTMENT OF TRANSPORTATION NORTHWEST REGION OFFICE IN EAU CLAIRE.

PLOT DATE: 2/11/2019 11:22 AM

SCALE, FEE

100

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), CHIPPEWA COUNTY, NADB3 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES.

TPP 8200-00-20 - 4.01

TPP 8200-00-20 - 4.02

TPP 8200-00-20 - 4.03

TPP 8200-00-20 - 4.04

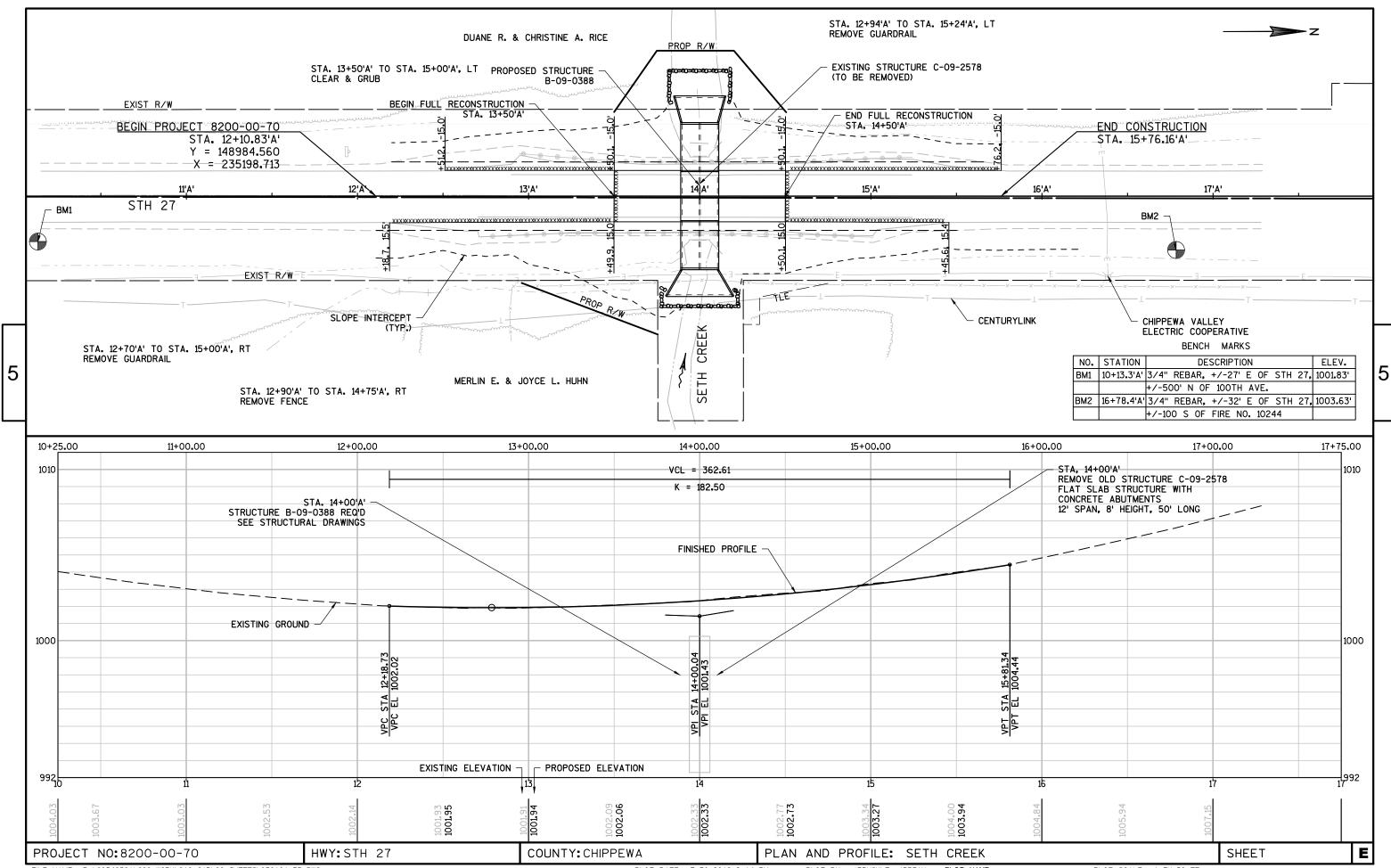
RELOCATION ORDER STH 27 CHIPPEWA COUNTY, CADOTT - CORNELL (100TH AVENUE TO SOUTH STREET/4-CULV)

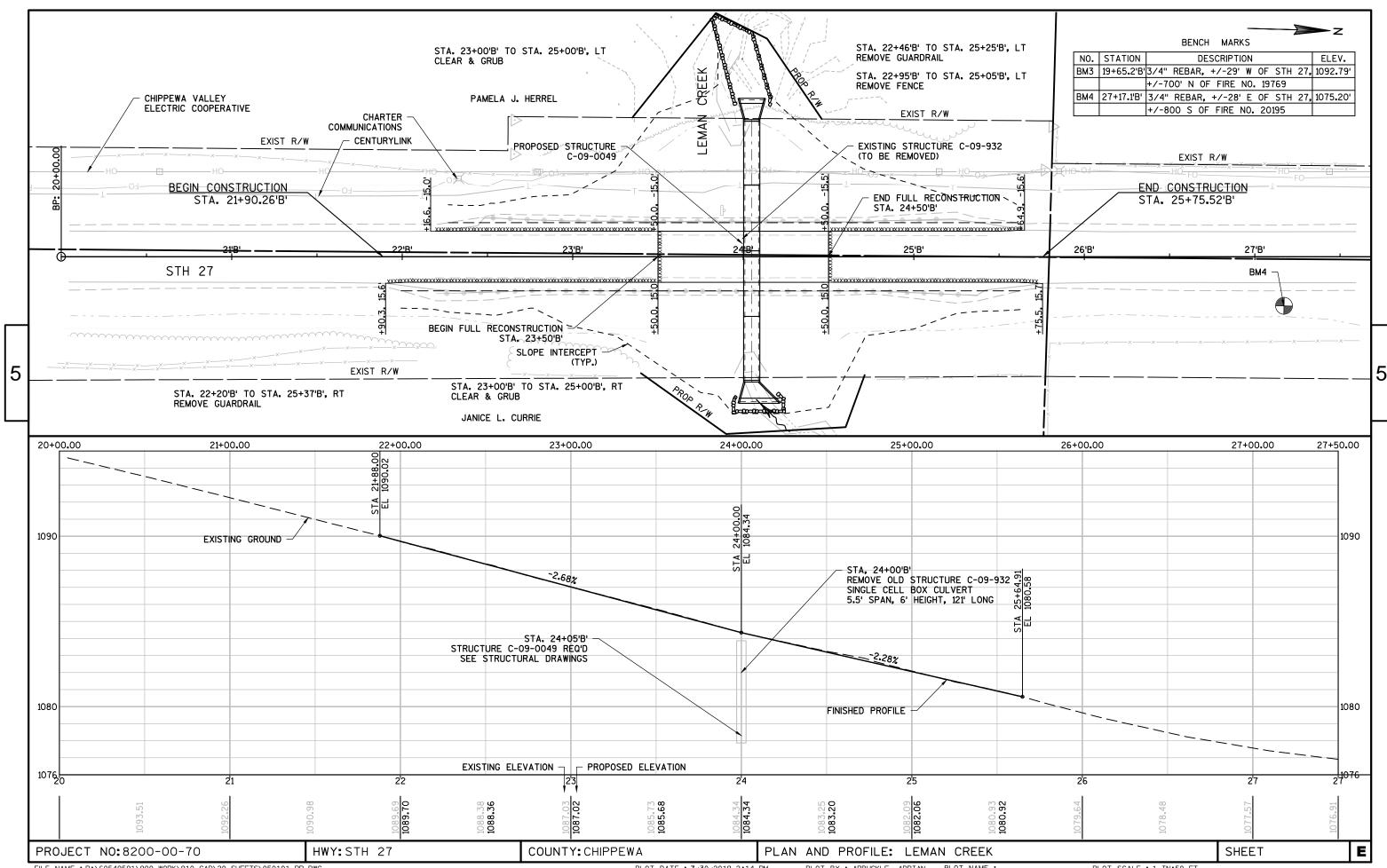
POINT 737 149191.222 235331.803 149141.222 | 235331.687 738 149191.174 235249.803 149191.857 235149.628 149140.891 235113.853 149185.891 235113.893 740 799 800 801 802 149216.405 | 235149.861 149515.818 235199.189 148765.818 235198.517 806 808 148765.864 235148.817 149515.865 235150.555 809 811 149515.768 235250.555 148765.772 235248.817 149141.191 235279.687 812 813 814 149061.767 235249.503 148765.818 235198.817 816 817 149515.817 235200.555 148271.292 235197.671 150881.977 235203.721 818 2326 12264

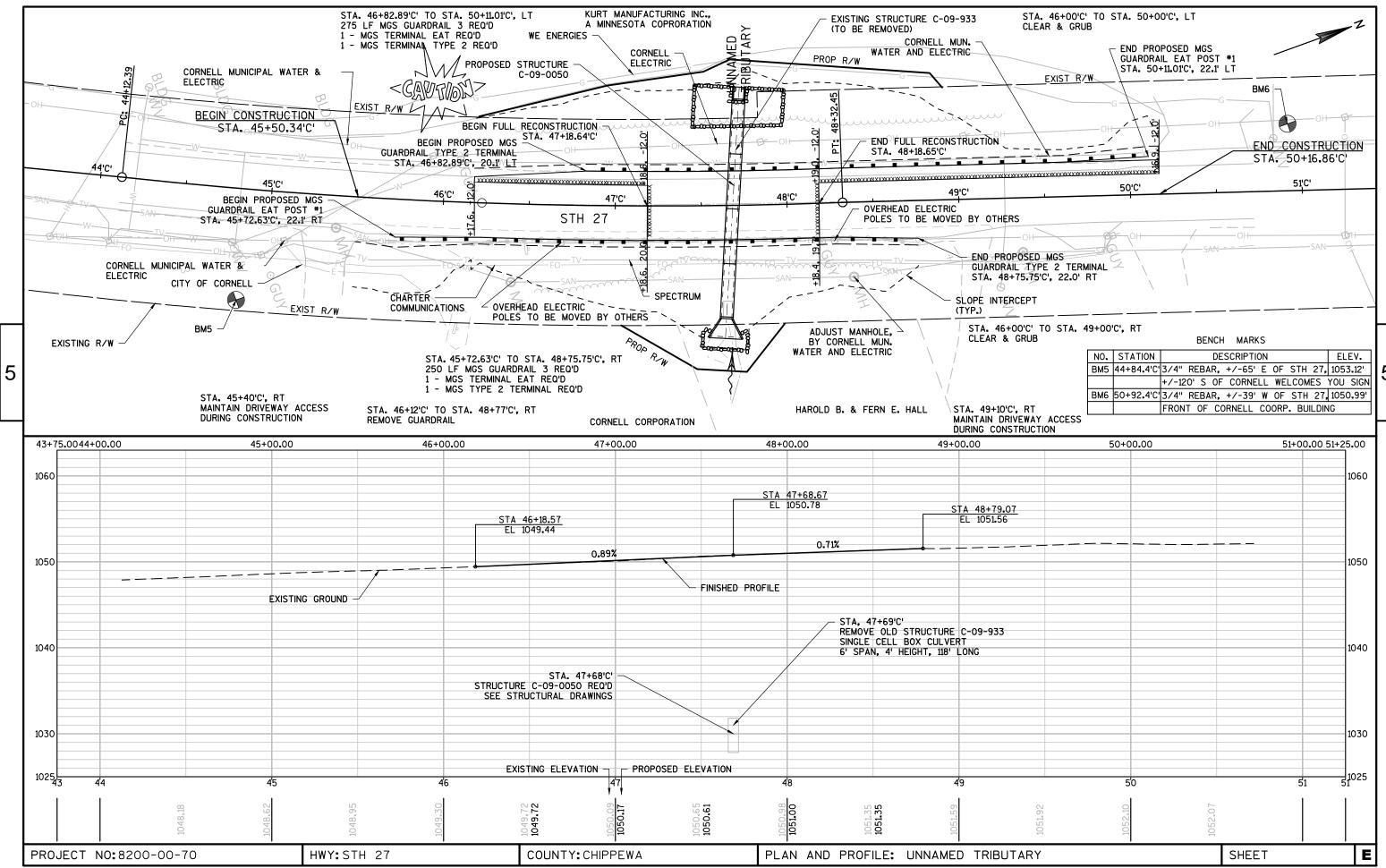
POINT	Υ	X
51 67 753 763 789 790 819 821 825 826 827 828 831 833 834 833 837 939	201635.819 201397.992 204283.677 201316.960 201056.521 201856.313 201389.572 201437.161 201500.563 201529.223 201518.682 201448.791 201055.052 201636.135 201855.105 201857.955 201635.105 201857.955 201635.109 201856.359 201467.495	231148.876 231222.693 231109.669 231093.889 231162.088 231143.847 231072.804 231010.369 231071.149 231220.739 231251.573 231257.168 231097.793 231069.126 231094.131 231090.867 231215.838 231219.159 231227.763 231217.763 231217.763

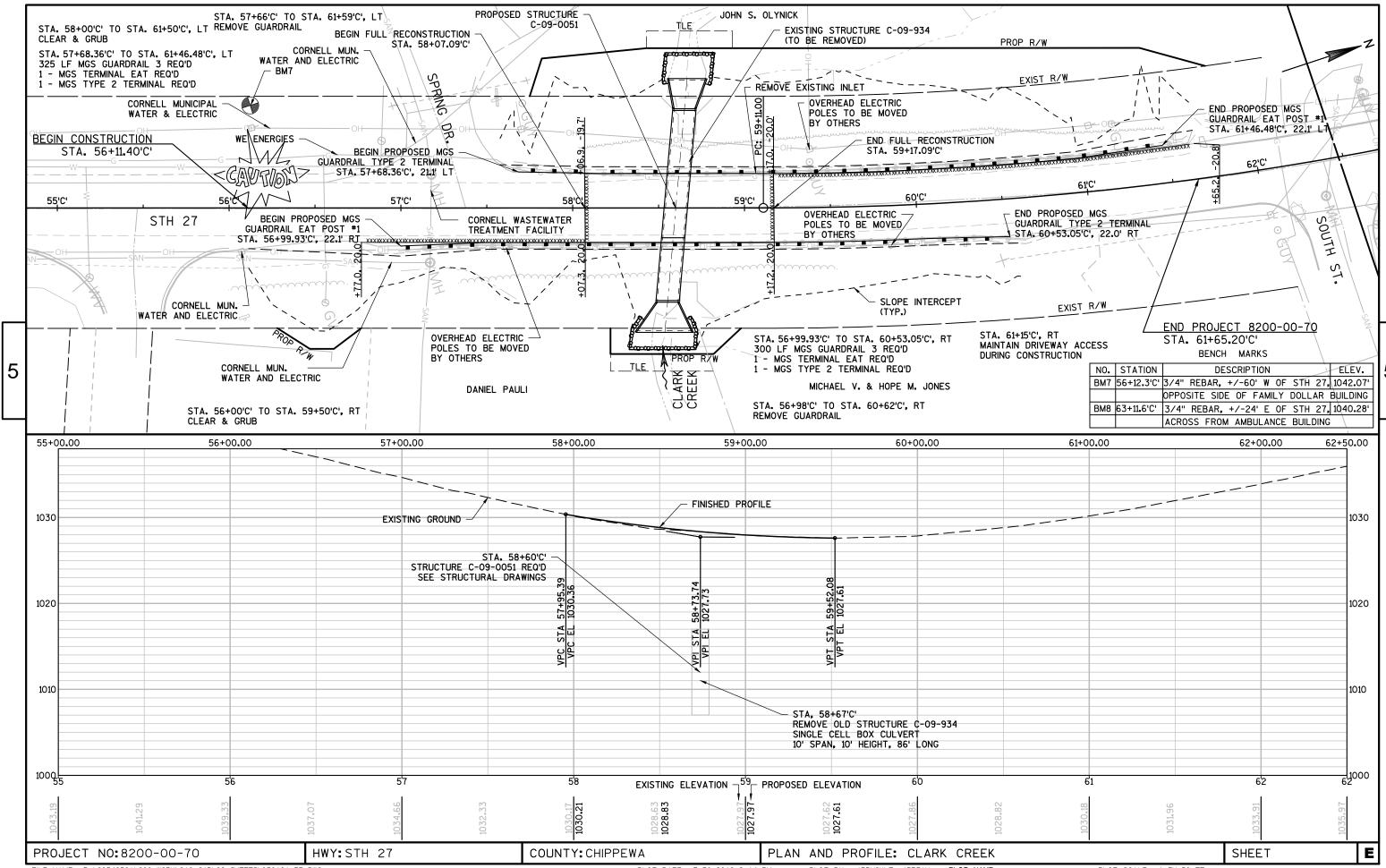
105 210463.333 233922.770 138 210485.049 233877.777 139 210432.888 233985.847 934 21225.747 236441.262 949 210671.014 233997.115 950 210747.566 233967.249 951 210802.571 233978.332 952 210819.547 233976.735 953 210926.459 234023.162 954 210930.456 234033.485 955 210910.178 234095.688 956 210798.221 234132.330 958 210798.221 234132.330 958 210741.304 234140.197 960 210708.139 234101.427 969 210877.239 234001.788	POINT	Υ	X
	138	210485.049	233877.777
	139	210432.888	233985.847
	934	212225.747	236441.262
	949	210671.014	233959.115
	950	210747.566	233967.239
	951	210802.571	233978.332
	952	210819.547	233976.735
	953	210926.459	234023.162
	954	210930.456	234033.485
	955	210910.178	234095.688
	956	210888.613	234161.837
	957	210798.221	234132.330
	958	210768.039	234151.434
	959	210741.304	234140.197
	960	210708.139	234101.427

POINT	Y	X
905 907 908 912 935 936 937 938 971 972 973 974 975 976 977 978 979 980	211454.960 211433.326 211475.170 211454.960 211634.860 211635.891 211602.581 211588.279 211769.866 211783.314 211907.821 21215.934 212149.040 212154.470 211844.950 211825.078 211768.033 211772.702 211843.170	234273.289 234339.648 234211.297 233733.225 234405.435 234412.001 234407.662 234390.230 234307.495 234288.82 234323.107 234390.739 234412.583 234479.066 234474.015 234483.352 234464.755 234480.431 234302.030









Standard Detail Drawing List

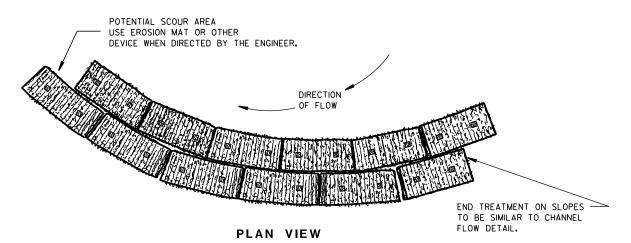
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
SILT FENCE
NAME PLATE (STRUCTURES)
HMA LONGITUDINAL JOINTS
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
BARRICADES AND SIGNS FOR VARIOUS CLOSURES
DETOUR SIGNING FOR MAINLINE CLOSURES
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
LONGITUDINAL MARKING (MAINLINE)
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
ATTACHMENT OF SIGNS TO POSTS

6

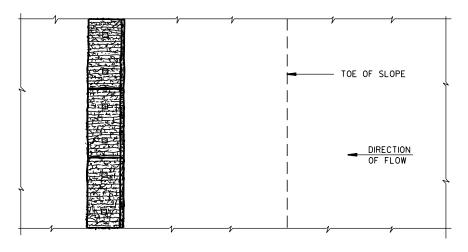
GENERAL NOTES

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.

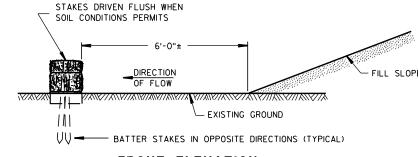
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

6

6

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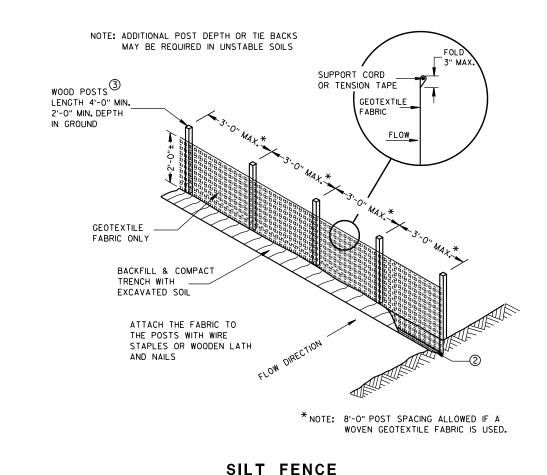
TYPICAL APPLICATION OF SILT FENCE

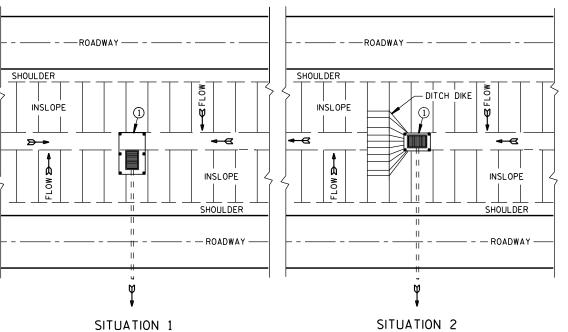
6

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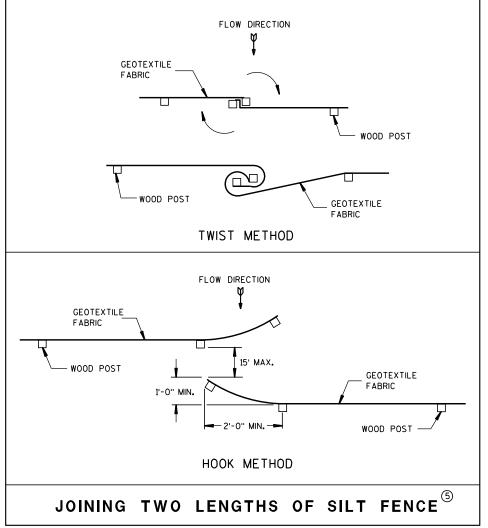
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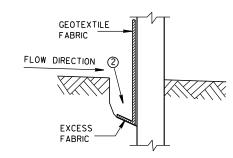
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



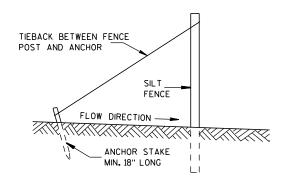
GENERAL NOTES

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

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

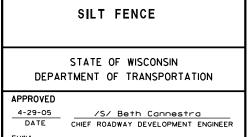


TRENCH DETAIL



SILT FENCE TIE BACK

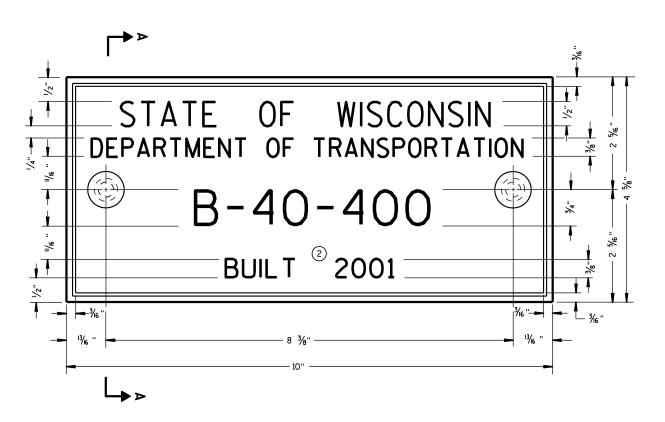
(WHEN REQUIRED BY THE ENGINEER)



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TYPICAL NAME PLATE (BRIDGES, CULVERTS, AND RETAINING WALLS)

 $\begin{array}{c} \text{FOR MULTI-UNIT STRUCTURES} \\ \text{Line 3 above shall read} \\ \text{B = BRIDGE} \\ \text{C = CULVERT} \\ \text{R = RETAINING WALL} \\ \end{array}$

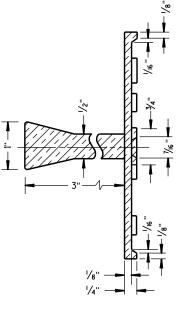
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

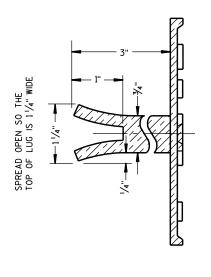
GENERAL NOTES

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.

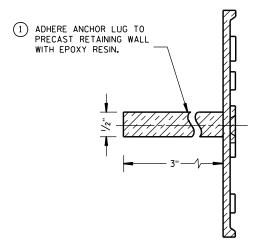
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.





SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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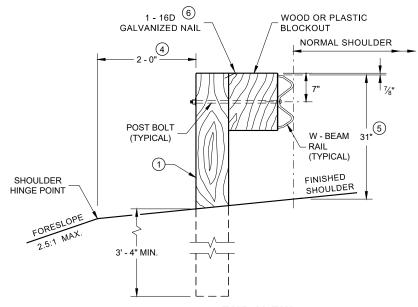
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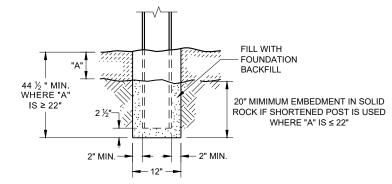
May 2019 DATE

/S/ Steven Hefel HMA PAVEMENT ENGINEER

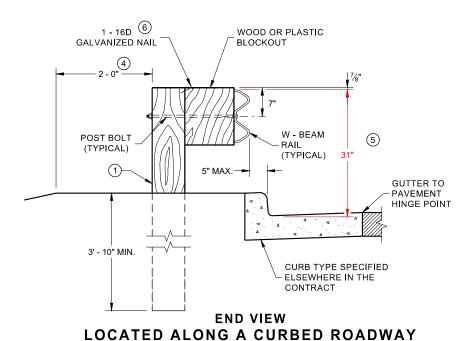
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- 7 TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

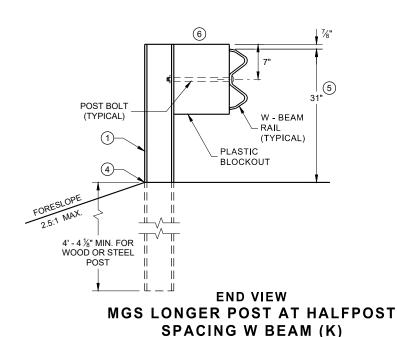


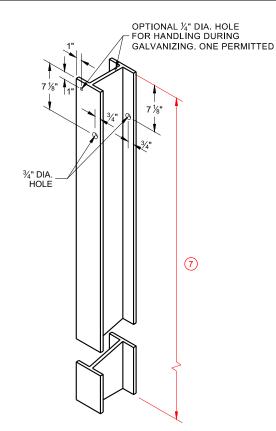
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



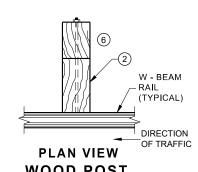
SETTING STEEL OR WOOD POST IN ROCK



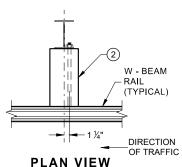




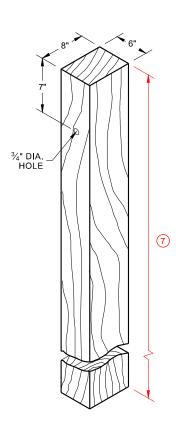
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



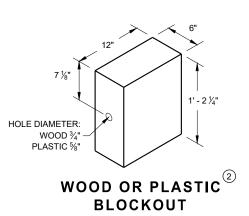
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

JD 14B42 -

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

6' 3" C - C

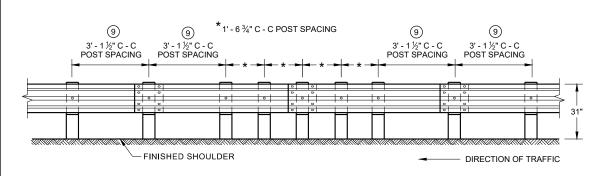
POST SPACING

DIRECTION OF TRAFFIC

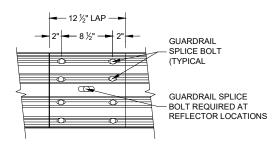
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)**



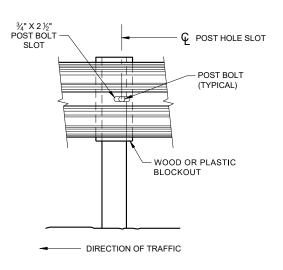
FRONT VIEW MID-SPAN BEAM SPLICE

GENERAL NOTES

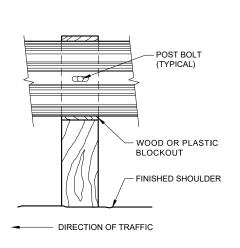
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
- $25\,\mbox{FEET}$ OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BÈ LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

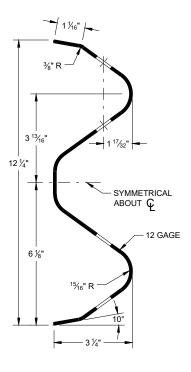
GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



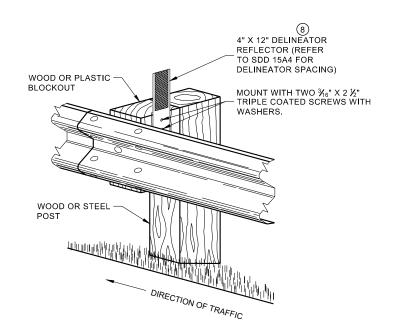
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

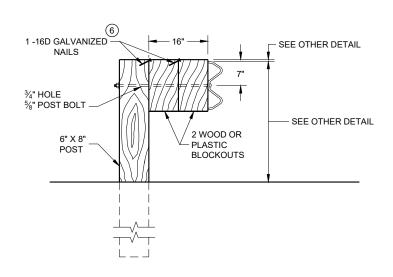
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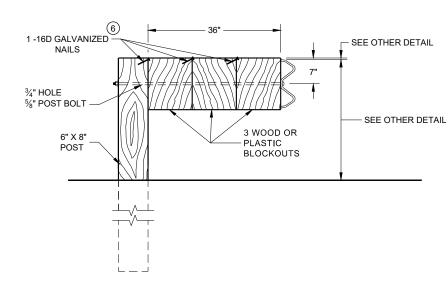
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



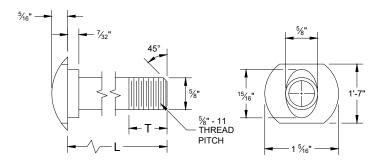
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" 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.

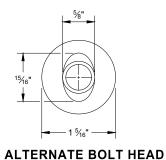
NOTE:

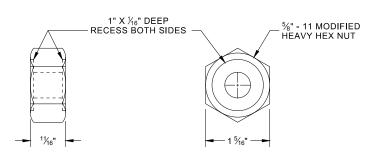
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

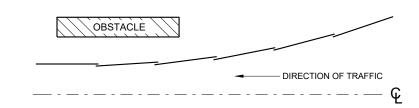
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



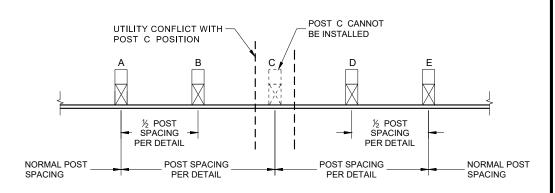


POST BOLT, SPLICE BOLT AND RECESS NUT

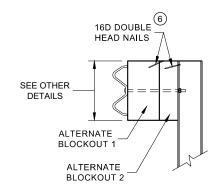
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

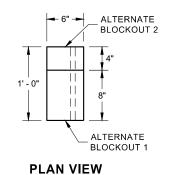


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

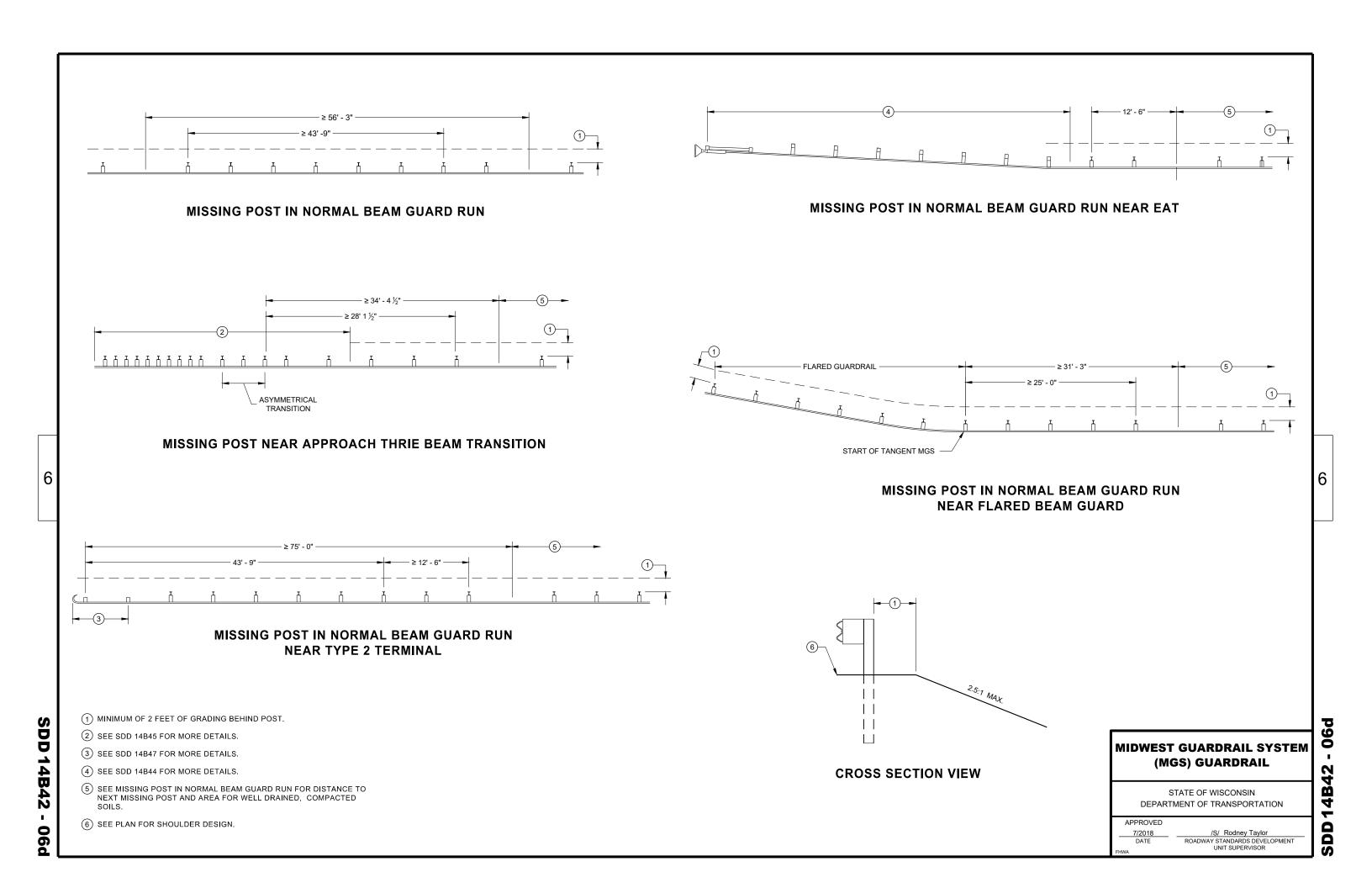
ALTERNATE WOOD BLOCKOUT DETAIL

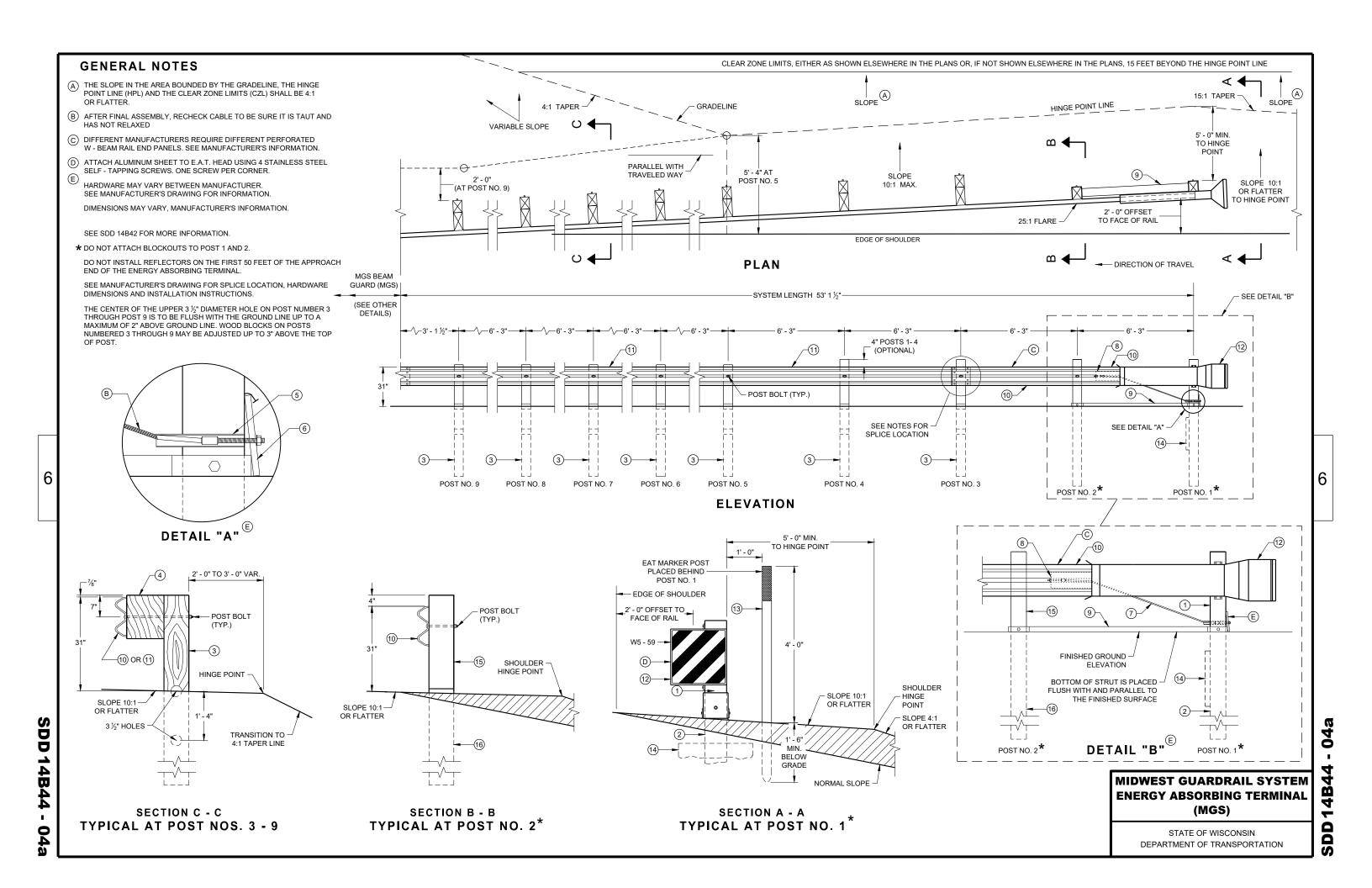
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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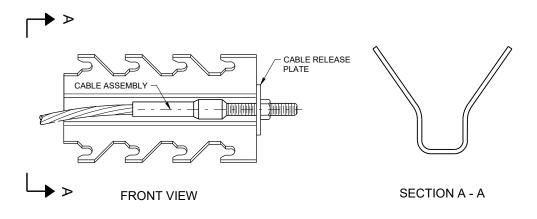
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

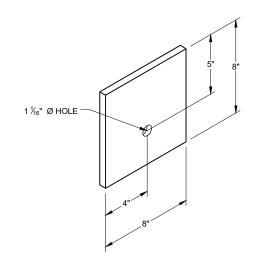




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

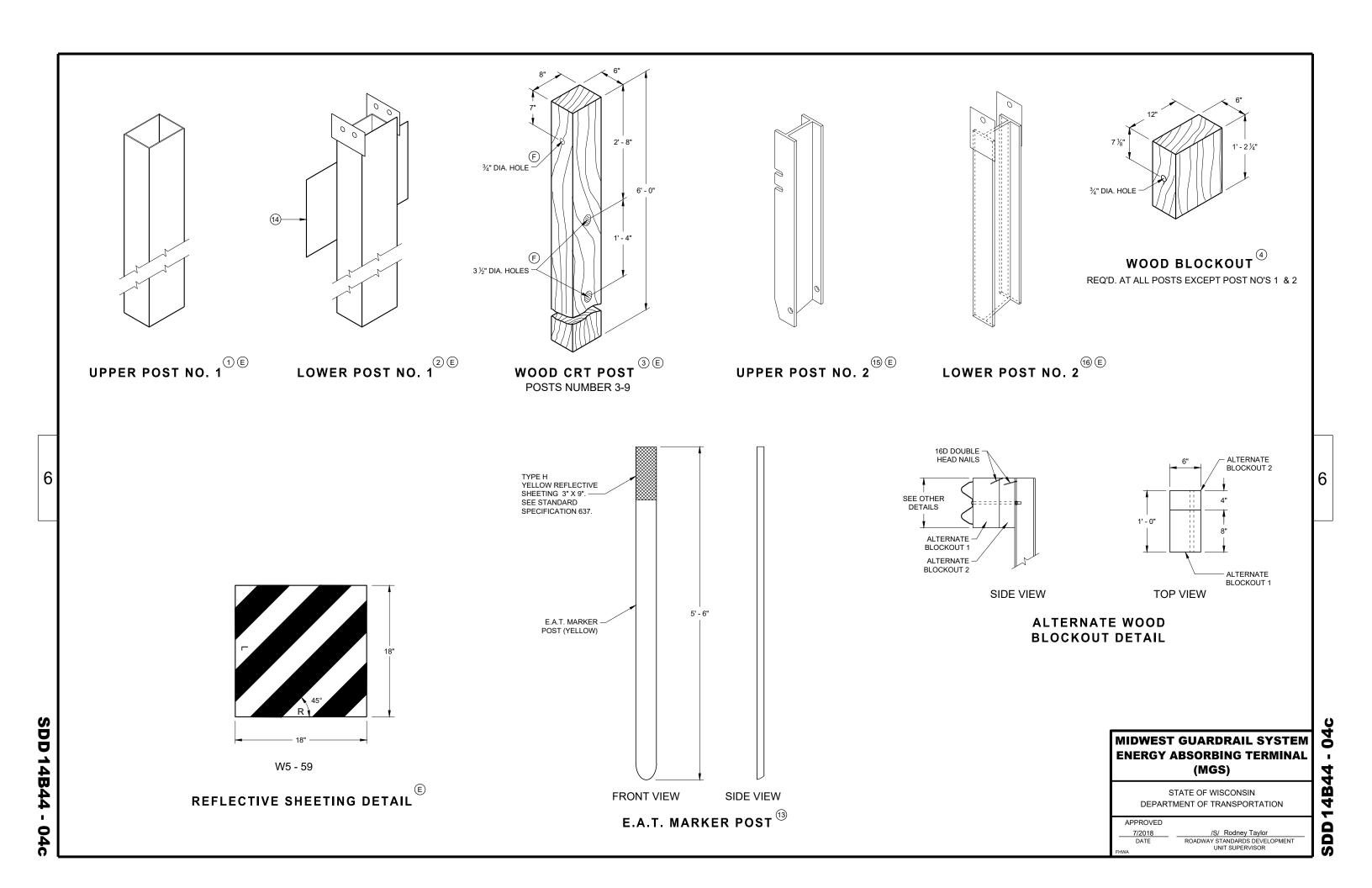
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

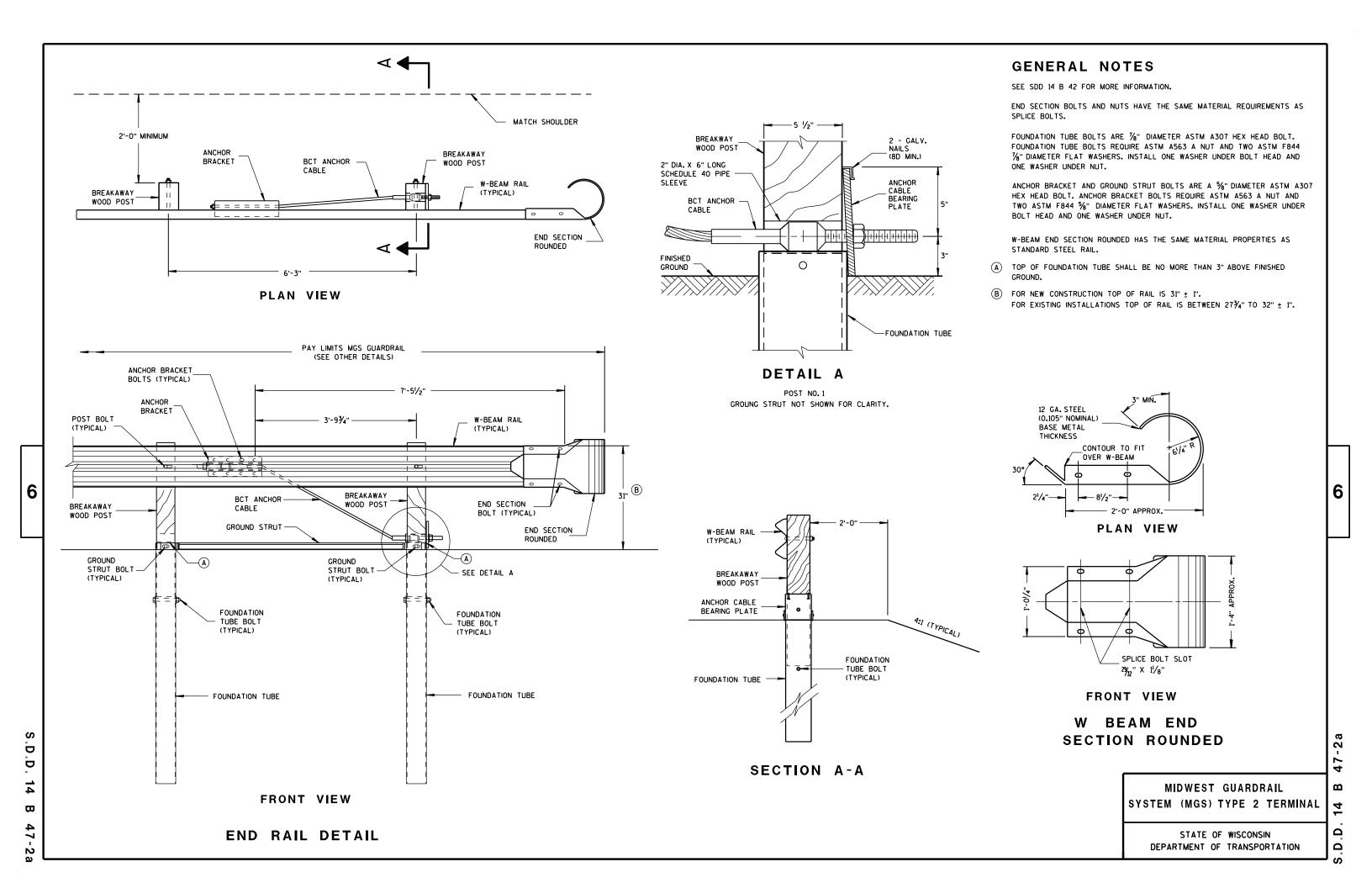
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

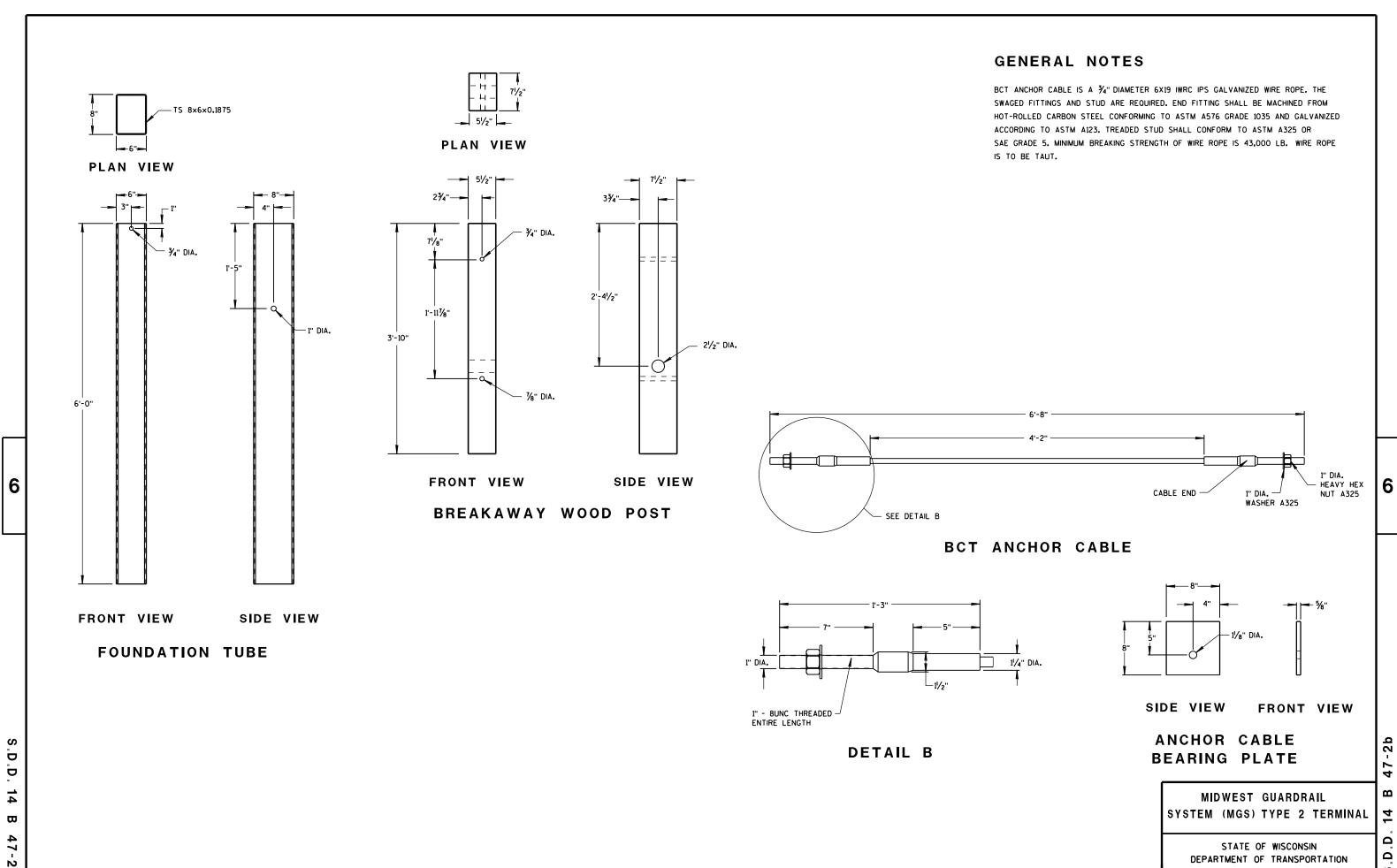
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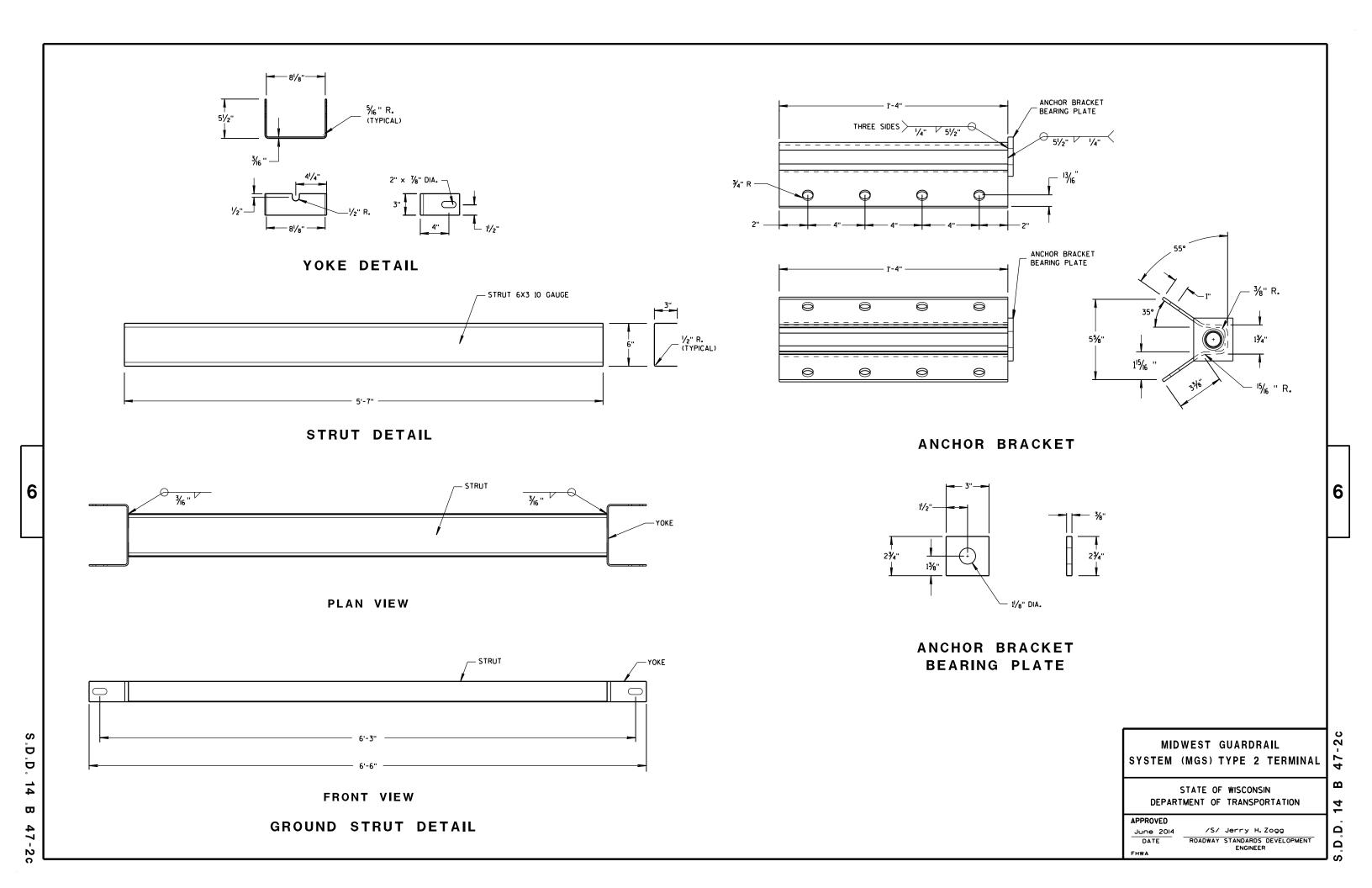
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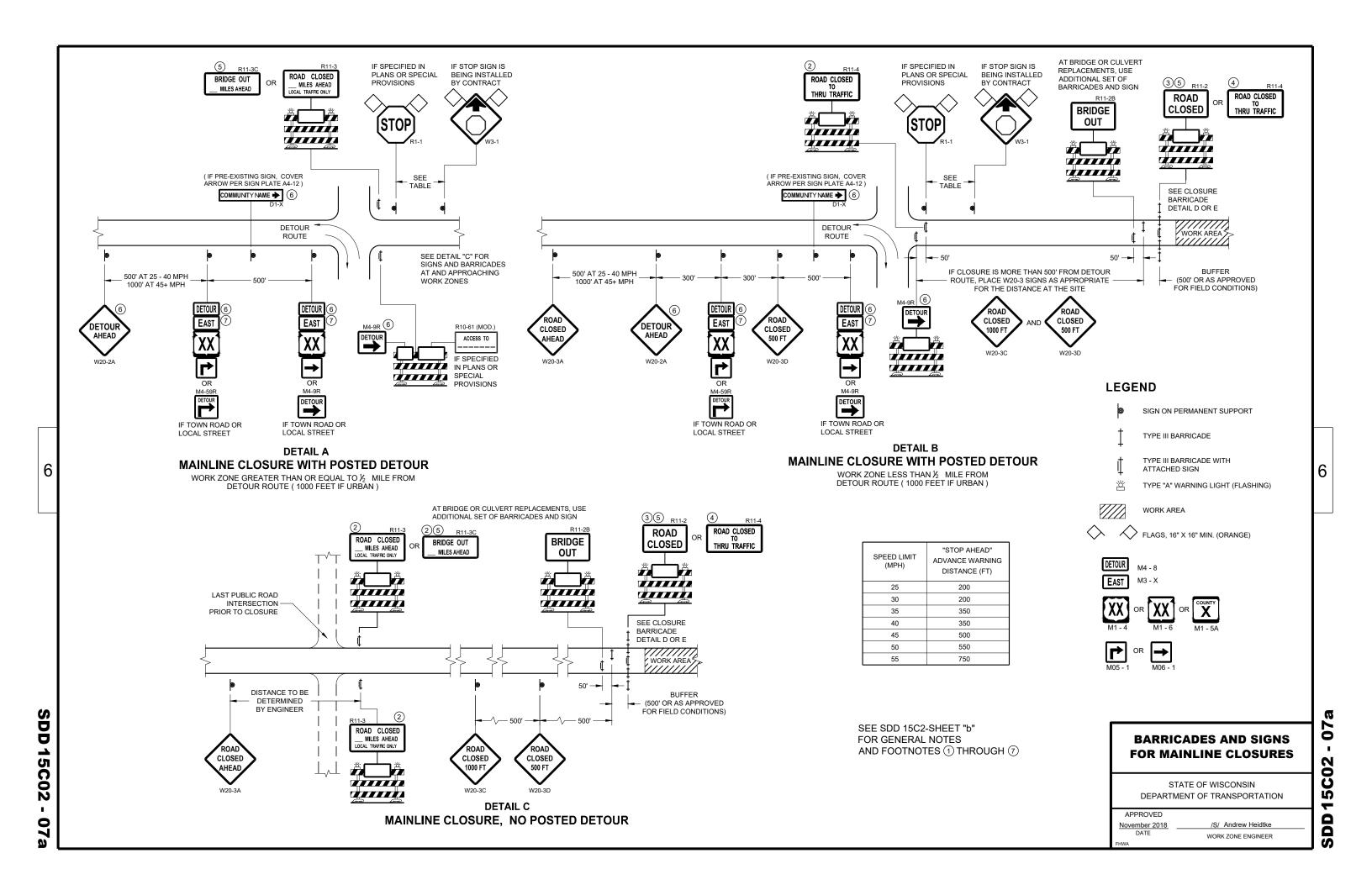


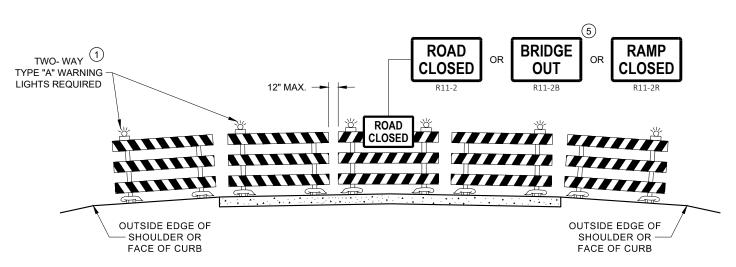




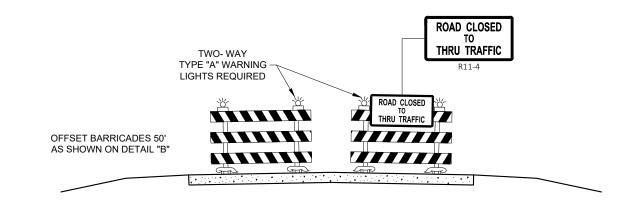
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DETAIL D ROAD CLOSURE BARRICADE DETAIL **APPROACH VIEW**



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE 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)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" 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"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (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 ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

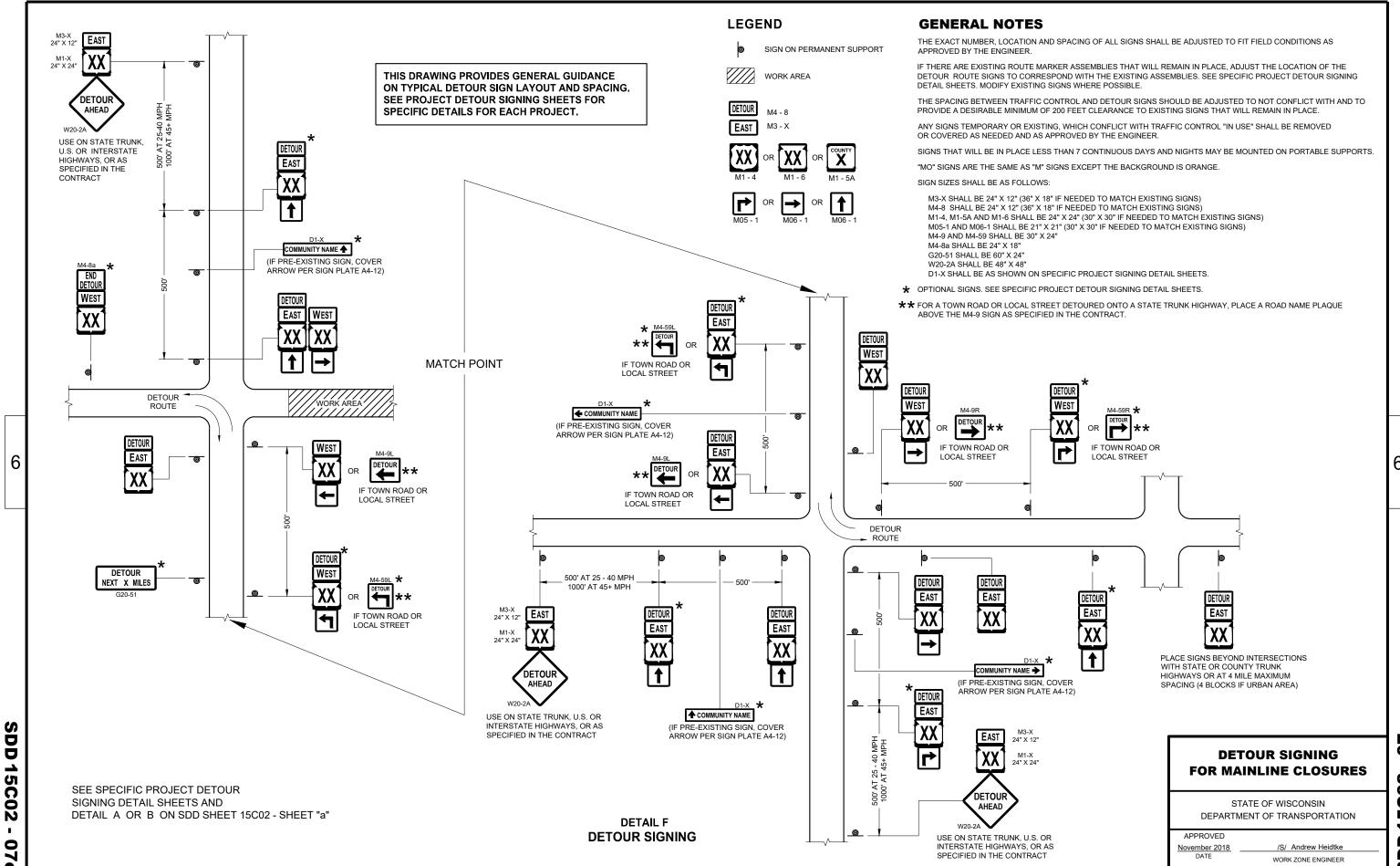
APPROVED

November 2018 DATE

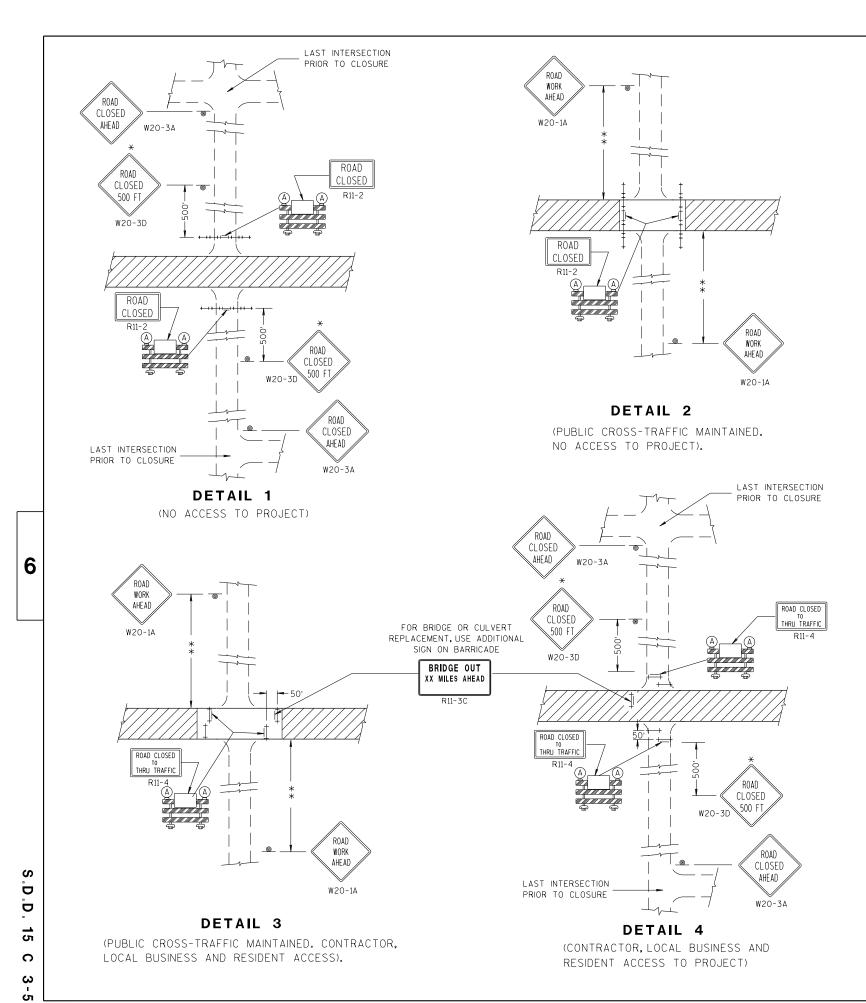
WORK ZONE ENGINEER

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GENERAL NOTES

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

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY. SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES, STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- *OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.
- **500'MAX.OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

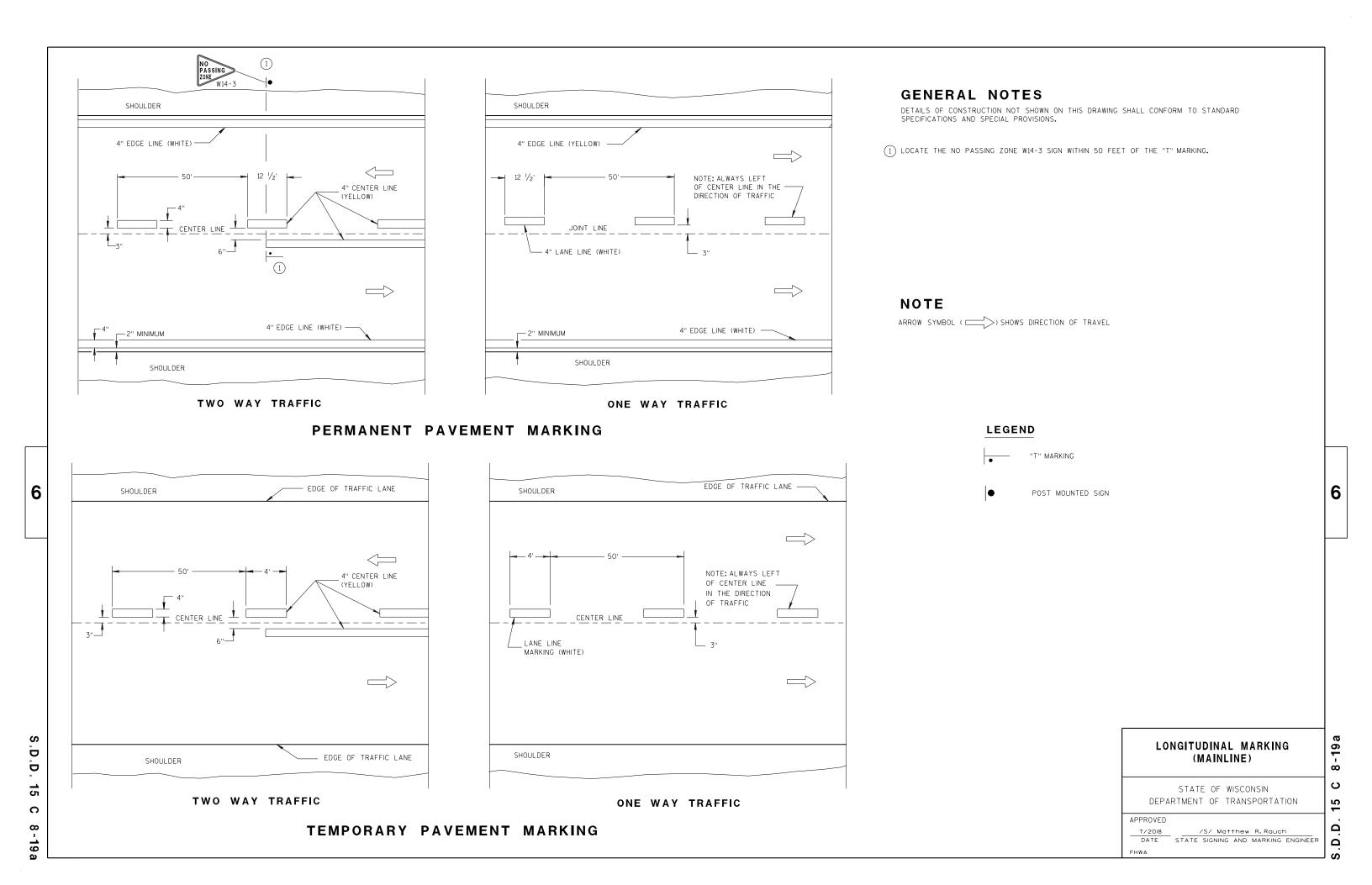
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36" MIN.

36" MIN.

DRUM

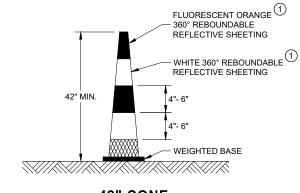
TYPE II BARRICADE

SDD 15C11

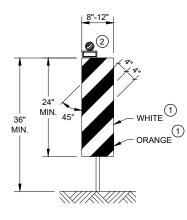
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

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.

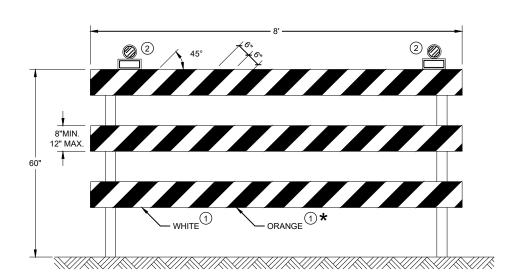
FLUORESCENT ORANGE

WHITE 360° REBOUNDABLE 1

- 360° REBOUNDABLE REFLECTIVE SHEETING

REFLECTIVE SHEETING

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES



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.

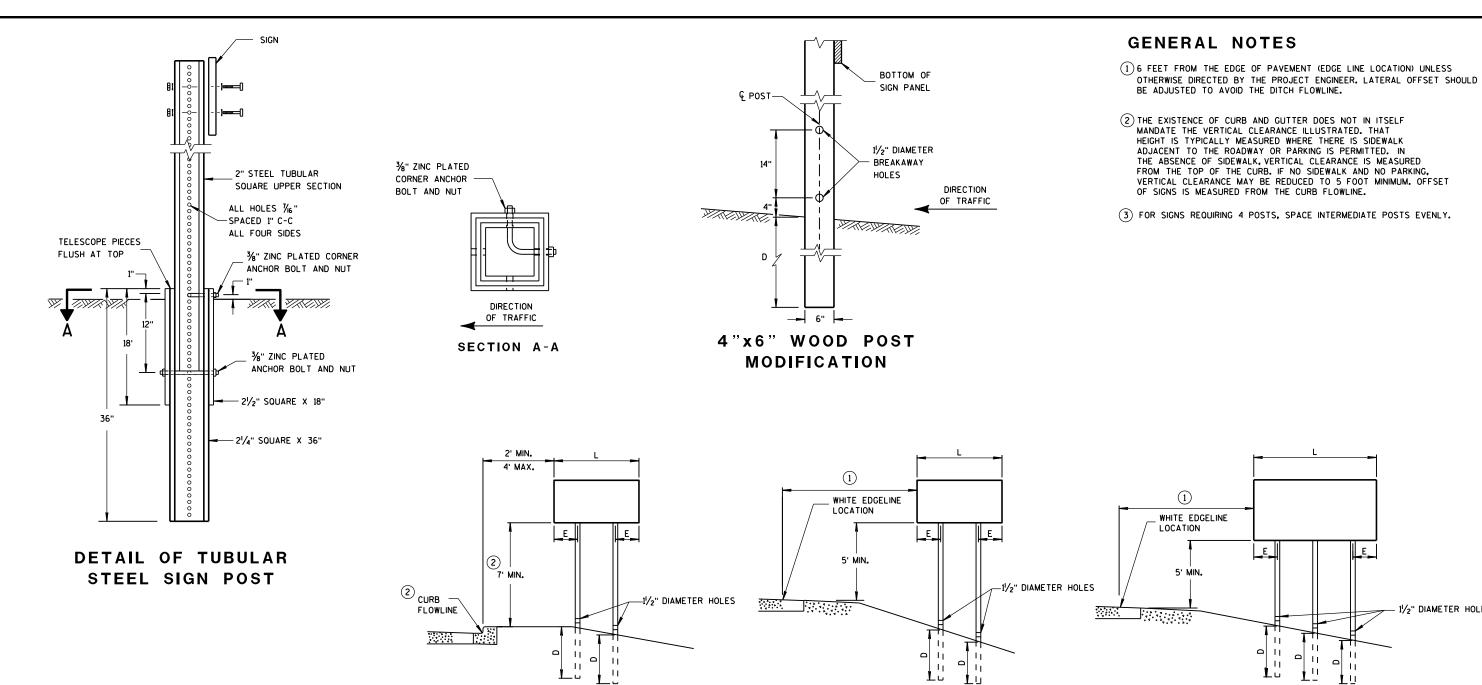
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

07

SDD 15C



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	!
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω Ω

D

15

D

38-2b

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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - $\frac{9}{32}$ " (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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

S.D.D. 15

2 b

18

က

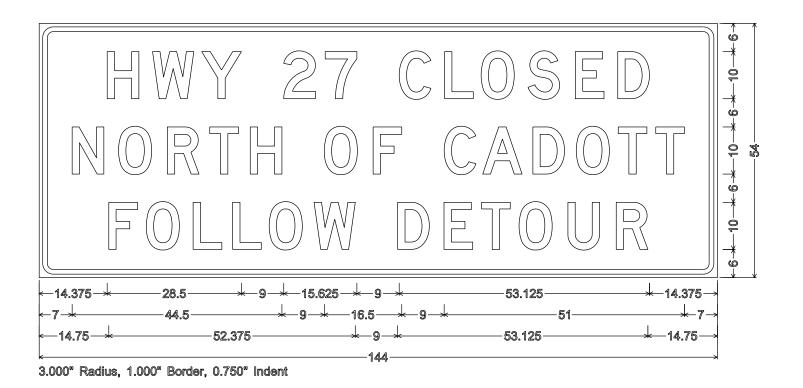
6

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

Background - Orange

Message - Black

3. Message Series - D



7

PROJECT NO:8200-00-70 HWY:STH 27 COUNTY:CHIPPEWA TEMPORARY SIGNING SHEET NO: **E**

FILE NAME: C:\CAEfiles\Projects\tr_d6\6091a719FMS.dgn

PLOT DATE: 31-JUL-2019 9:47

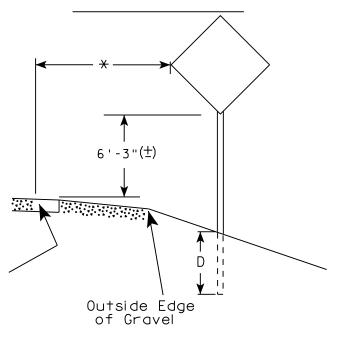
PLOT BY : dotc4c

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

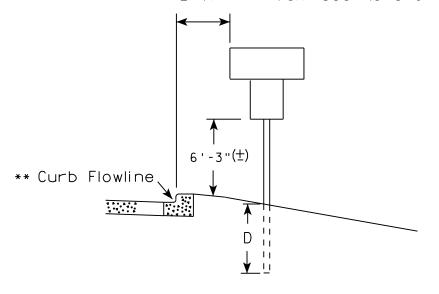
URBAN AREA

2' Min - 4' Max (See Note 6) 7'-3"(±) ** Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline D' Location Outside Edge of Gravel

POST EMBEDMENT DEPTH

GENERAL NOTES

3. For expressways and freeways, mounting height is 7'- 3" (±) or

A4-10 sign plate.

of a sub-sign.

for mounting height.

height is 3 inches.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on

multiple posts. Refer to plate A4-4.

6'-3" (±) depending upon existence

5. Minimum mounting height for signs

6. Offset distance shall be consistent

with existing signs or consistent throughout length of project.

9. The Double Arrow sign (W12-1) shall be

7. The (+) tolerance for mounting

2. If signs are mounted on barrier wall, see

4. J-Assemblies are considered to be one sign

8. Folding signs shall be mounted at a height

of 5'-3'' (\pm) or as directd by the Engineer.

shall be mounted at a height of 4'-3'' (\pm).

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)

mounted on traffic signal poles is $5' - 3'' (\pm)$.

Area of Sign	
Installation	D
(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

Matthew R Rayes

DATE 8/21/17 PLATE NO. <u>A4-3.21</u>

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 16:04

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

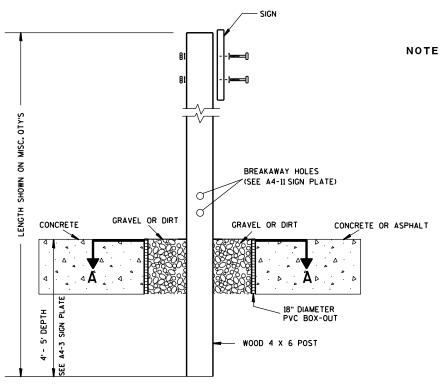
PLOT SCALE: 100.601251:1.000000

WISDOT/CADDS SHEET 42

SHEET NO:

APPROVED

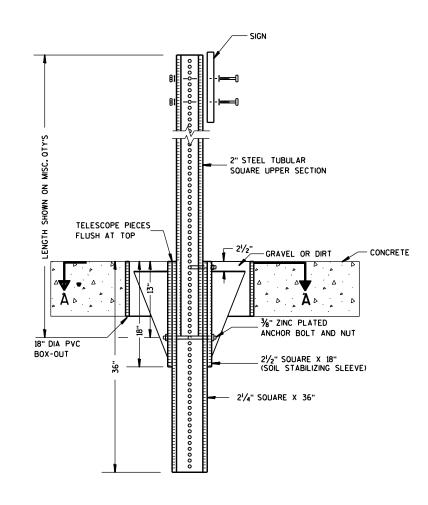
For State Traffic Engineer



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.



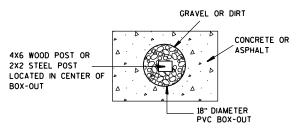
ELEVATION VIEW

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

ELEVATION VIEW

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

- 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.
- $\star\star\star$ 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'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

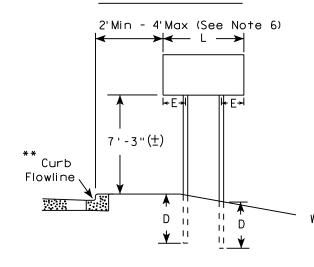
For State Traffic Engineer

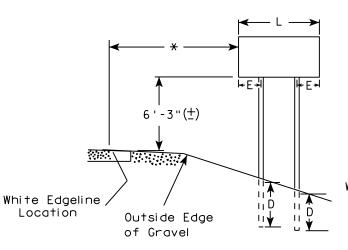
DATE 8/21/17 PLATE NO. A4-4.15

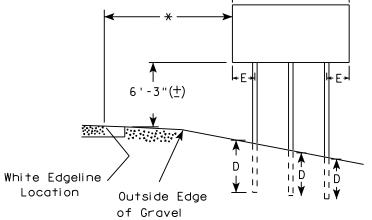
SHEET NO:

URBAN AREA

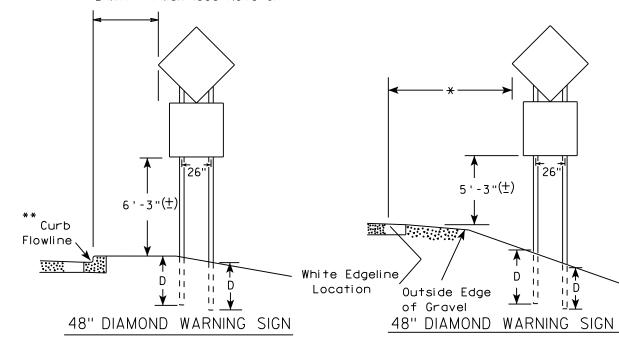
RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN (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

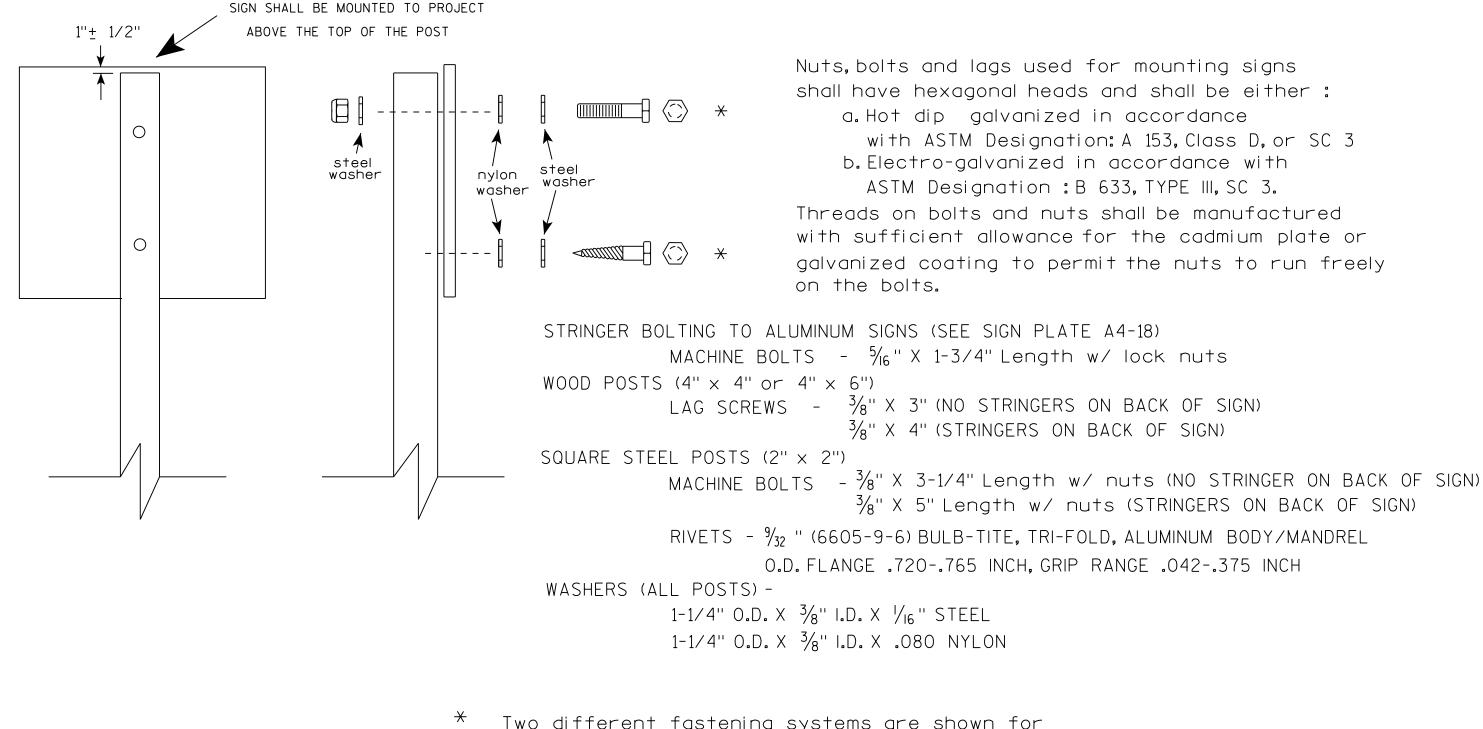
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

Matther R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

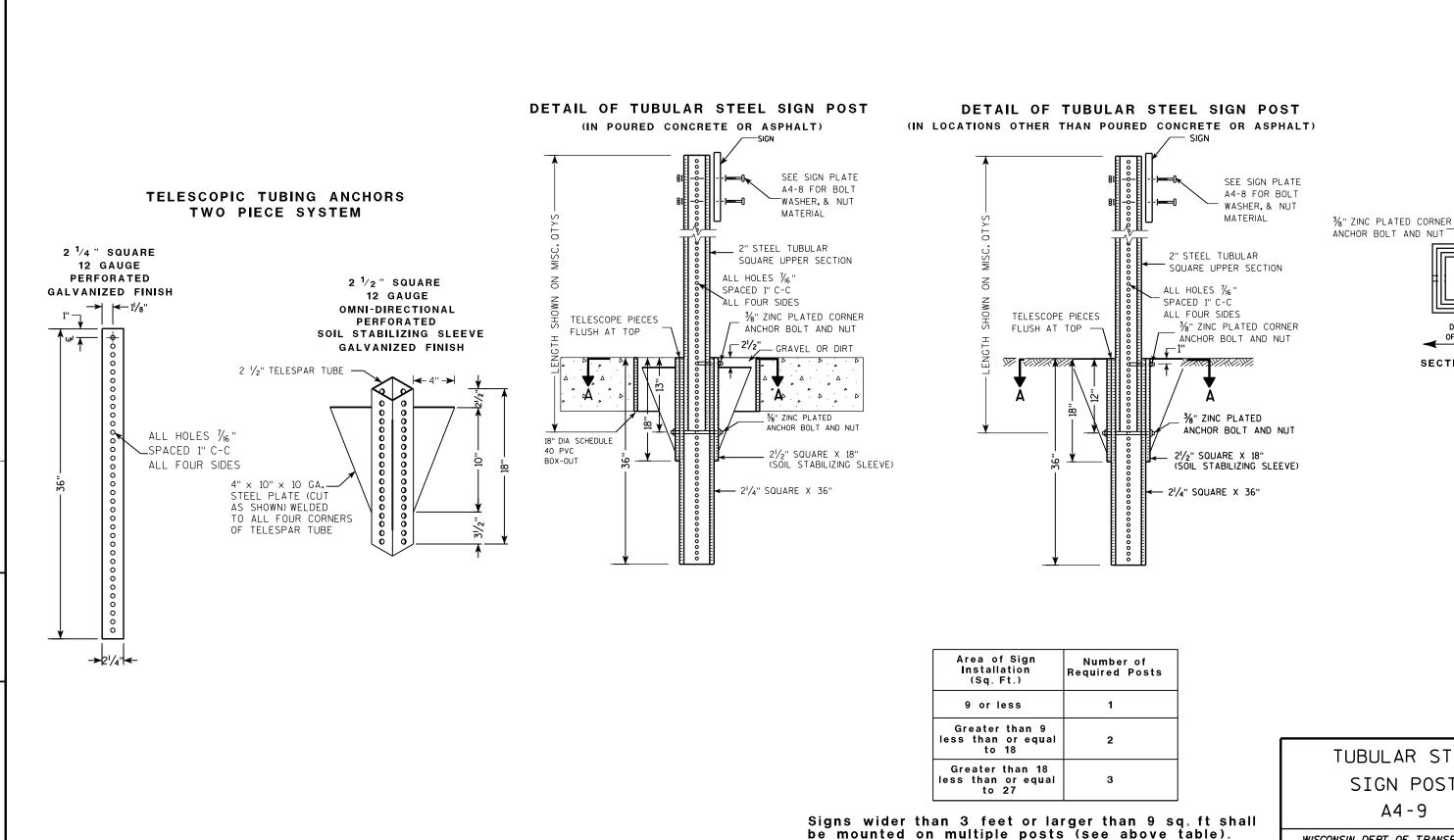
FILE NAME : C:\CAFfiles\Projects\tr strolgte\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

LI NO:



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

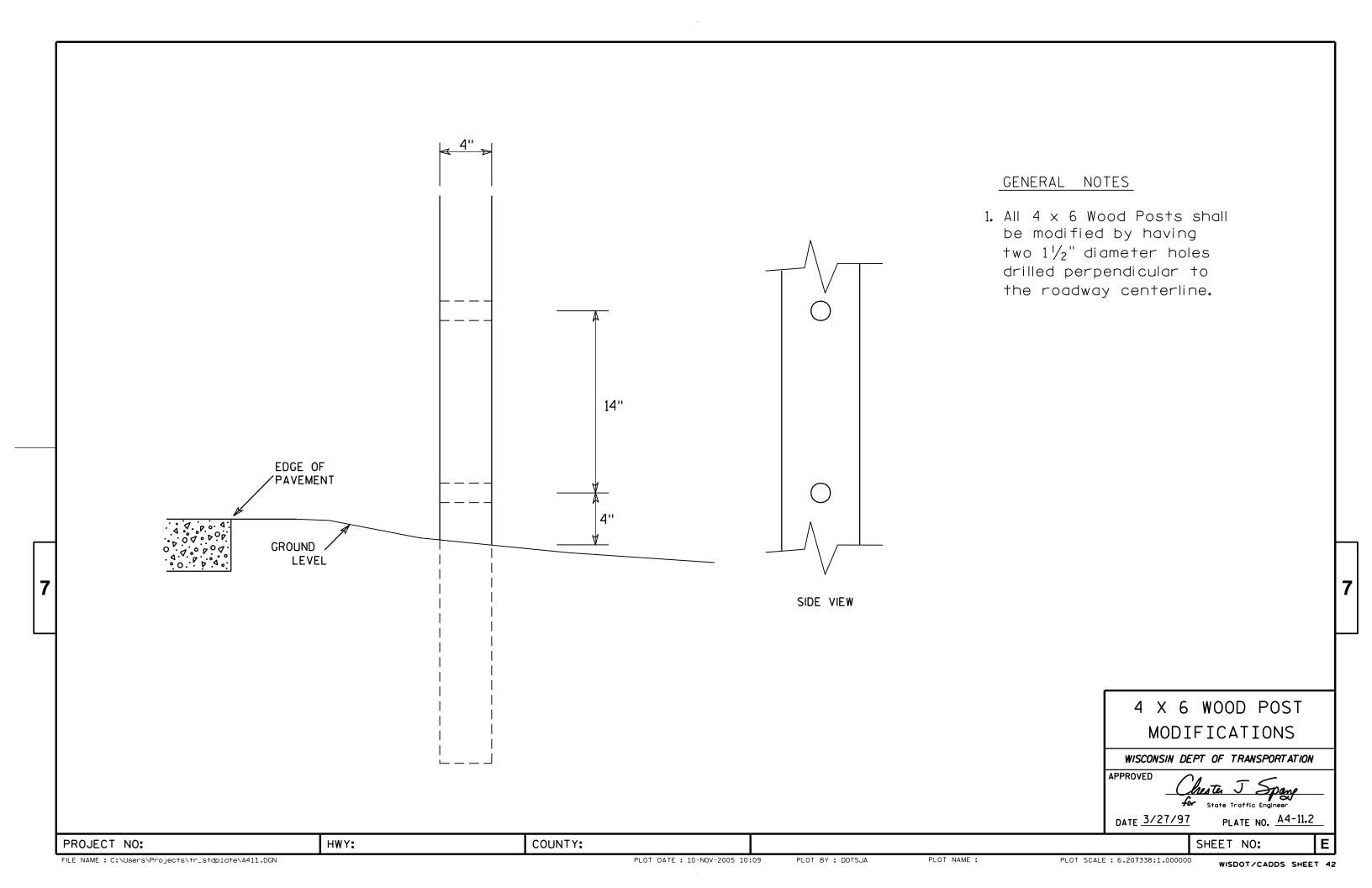
COUNTY:

PLOT NAME :

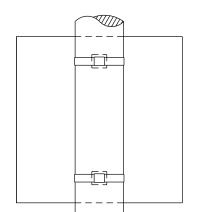
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

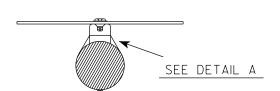
SECTION A-A

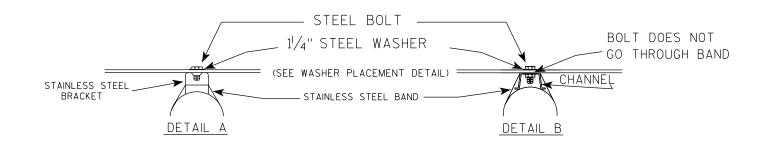


BANDING

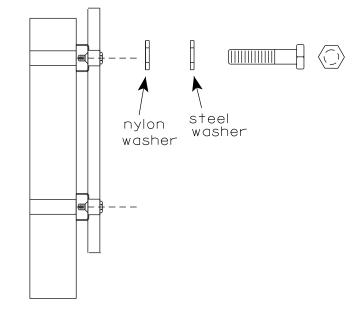


SINGLE SIGN





WASHER PLACEMENT



HWY:

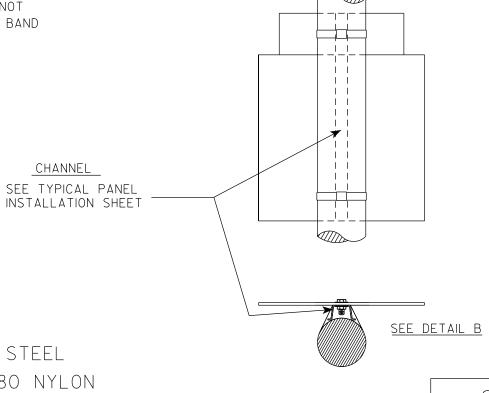
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 6/10/19

SHEET NO:

State Traffic Engineer

PLATE NO. A5-9.4

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

COUNTY:

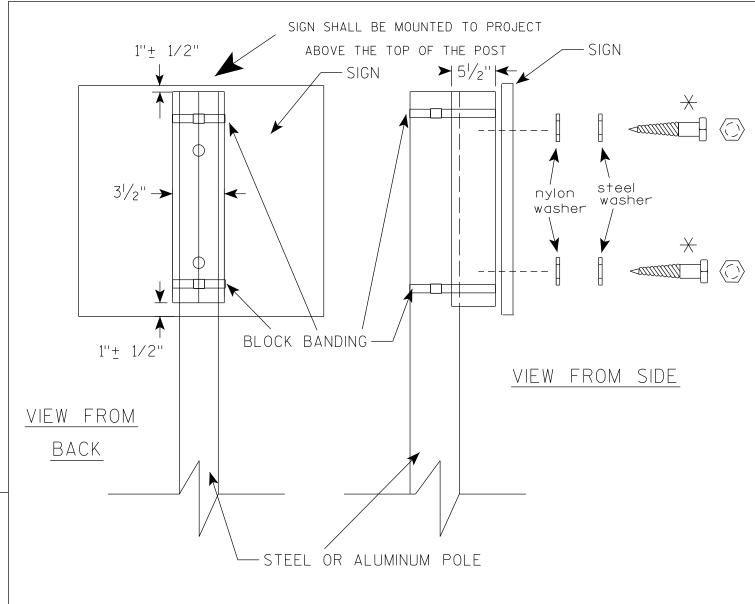
PLOT BY: mscj9h

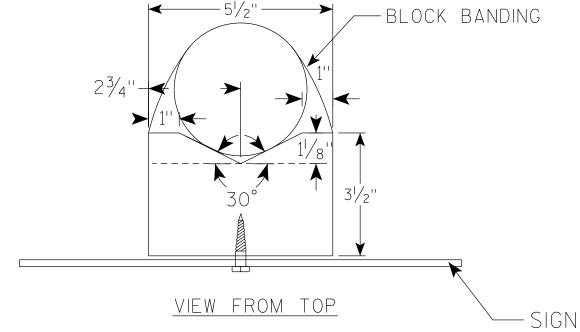
CHANNEL

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 10-JUN 2019 4:10





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

PROJECT NO:

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series Line 1 is D and Line 2 is C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

—————————————————————————————————————		-I
	NEXT O MILES	→ F → G
		<i></i>

SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 %															10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
5																											

COUNTY:

STANDARD SIGN G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>3/14/</u>17

PLATE NO. <u>G20-51.2</u>

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\G2051.DGN

PROJECT NO:

HWY:

PLOT DATE: 14-MAR-2017 13:33

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

PLOT SCALE: 6.904489:1.000000

WISDOT/CADDS SHEET 42

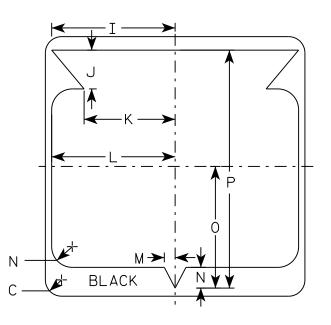
NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

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

	G F A H H H
▲ M1 - 6	



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																										1	
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹or State Traffic Engineer PLATE NO. M1-6.10

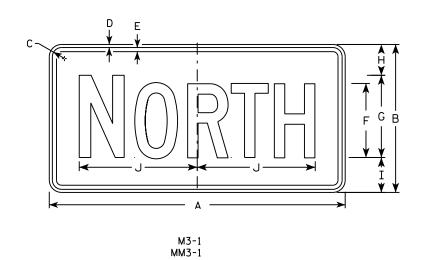
DATE 3/16/18

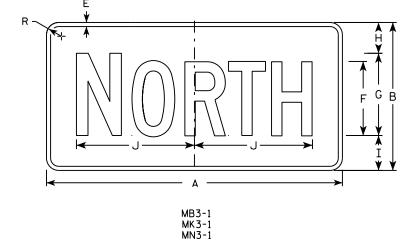
PLOT SCALE : 6.655277:1.000000

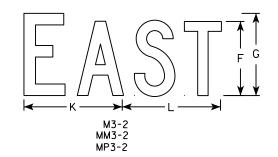
SHEET NO:

HWY:

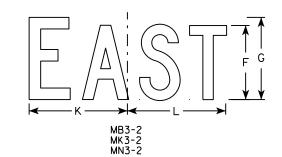
PROJECT NO:

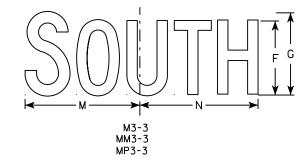


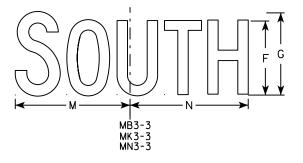


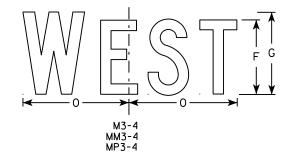


MP3-1

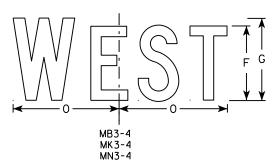








HWY:



NOTES

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

Background - See note 5 Message - See note 5

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

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.
1 1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Raw State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

FILE NAME . C.\CAFfiles\Projects\tr stdplote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PINT RY . \$\$ DIOTUSER \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

NOTES

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

Background - Orange Message - Black

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

$C \xrightarrow{D} E \\ \downarrow \\ \downarrow \\ \uparrow$	★ G	
	F - * G *	

С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 12 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

PLOT DATE: 10-NOV-2010 13:18

PLOT NAME :

PLOT BY : ditjph

PLOT SCALE: 4.767233:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

HWY:

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

2. Color:

Background - Orange Message - Black

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

 $D \longrightarrow$ Н M4-8A

SIZE	Α .		В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	w	Х	Y	Z	Area sq. ft.
1																												
2	24	4	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	0	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																												
5						·					·	·				·						·	·				·	

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther For State Traffic Engineer

SHEET NO:

DATE 3/9/11

PLATE NO. M4-8A.2

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

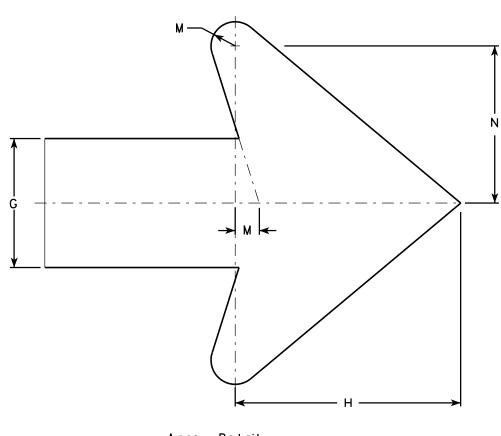
WISDOT/CADDS SHEET 42

<u>NOTES</u> 1. Sign is Type II - 1

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

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

A	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 %													5.00
30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 %													5.00
48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
	30 48	30 24 30 24 48 36	30 24 1 ½8 30 24 1 ½8 48 36 1 ¾8	30 24 1 ½ 3/8 30 24 1 ½ 3/8 48 36 1 3/8 ½	30 24 1 ½ 3½ ½ 30 24 1 ⅓ 3½ ½ 48 36 1 ¾ ½ 5½	30 24 1 ½ 3½ ½ 5 30 24 1 ½ 3½ ½ 5 48 36 1 ¾ ½ 5% 8	30 24 1 ½ 3/8 ½ 5 4 30 24 1 ½ 3/8 ½ 5 4 48 36 1 3/8 ½ 5/8 8 6	30 24 1 ½ 3/8 ½ 5 4 7 30 24 1 ½ 3/8 ½ 5 4 7 48 36 1 3/8 ½ 5/8 8 6 10 ½	30 24 1 ½8 ¾8 ½2 5 4 7 8 30 24 1 ⅓8 ¾8 ½2 5 4 7 8 30 24 1 ⅓8 ¾8 ½2 5 4 7 8 48 36 1 ¾8 ½ 5 8 6 10 ½ 11 ⅙	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8	30 24 1 ½ 3½ ½ 5 4 7 8 11 ½ 12 30 24 1 ⅓ 3½ ½ 5 4 7 8 11 ½ 12 30 24 1 ⅓ 3½ ½ 5 4 7 8 11 ½ 12 48 36 1 ¾ ½ 5% 8 6 10 ½ 11 5% 20 ½ 20 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 8 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 4 ⅓ 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 4 ⅓ 4 ⅓ 4 ⅓ 8 36 1 ¾ ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 6 ½ 5 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 4 ½ 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 4 ½ 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 1 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ½ 6 ½ 6 ½ 6 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 4 ½ 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6	30 24 1 ½ ¾ ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 30 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 8 4 ½ 5 8 8 6 10 ½ 11 ½ 20 ½ 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 № 6 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 6 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 € 10 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 € 10 ½ 11 5% 20 5% 20 ½ 13 ½ 11 ½ 8 6 ⅓ 8 € 10 € 10 € 10 € 10 € 10 € 10 € 10 €	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 5 6 5 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ½ 6 ½ 6 5/8 5	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 3 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 3/4 4 ⅓ 5 5 4 7 8 11 ½ 12 9 3/4 4 ⅓ 6 ⅓ 6 ⅓ 6 13/8 ½ 5/8 8 6 10 ½ 11 ⅓ 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅙ 6 ⅓ 6 ⅓ 6 ⅓ 6 ⅓ 6 ⅓ 6 ⅓ 6 ⅓ 6 ⅓ 6	30 24 1 ½ ¾ ¾ ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 30 24 1 ⅓ ¾ ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 30 24 1 ⅓ ¾ ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 48 36 1 ¾ ½ 5 8 8 6 10 ½ 11 ⅓ 20 ⅓ 20 ½ 13 ¼ 1 ⅓ 6 ⅓	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 6 ¾ 9 ¼ 4 ½ 9 9 ¾ 4 ½ 9 9 ¾ 4 ½ 9 9 ¾ 4 ½ 9 9 ¾ 4 ½ 9 9 ¾ 4 ½ 9 9 ¾ 4 ½ 9 9 ¾ 4 ½ 9 9 № 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

COUNTY:

M4-9R

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED /// // // //

Por State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

SHEET NO:

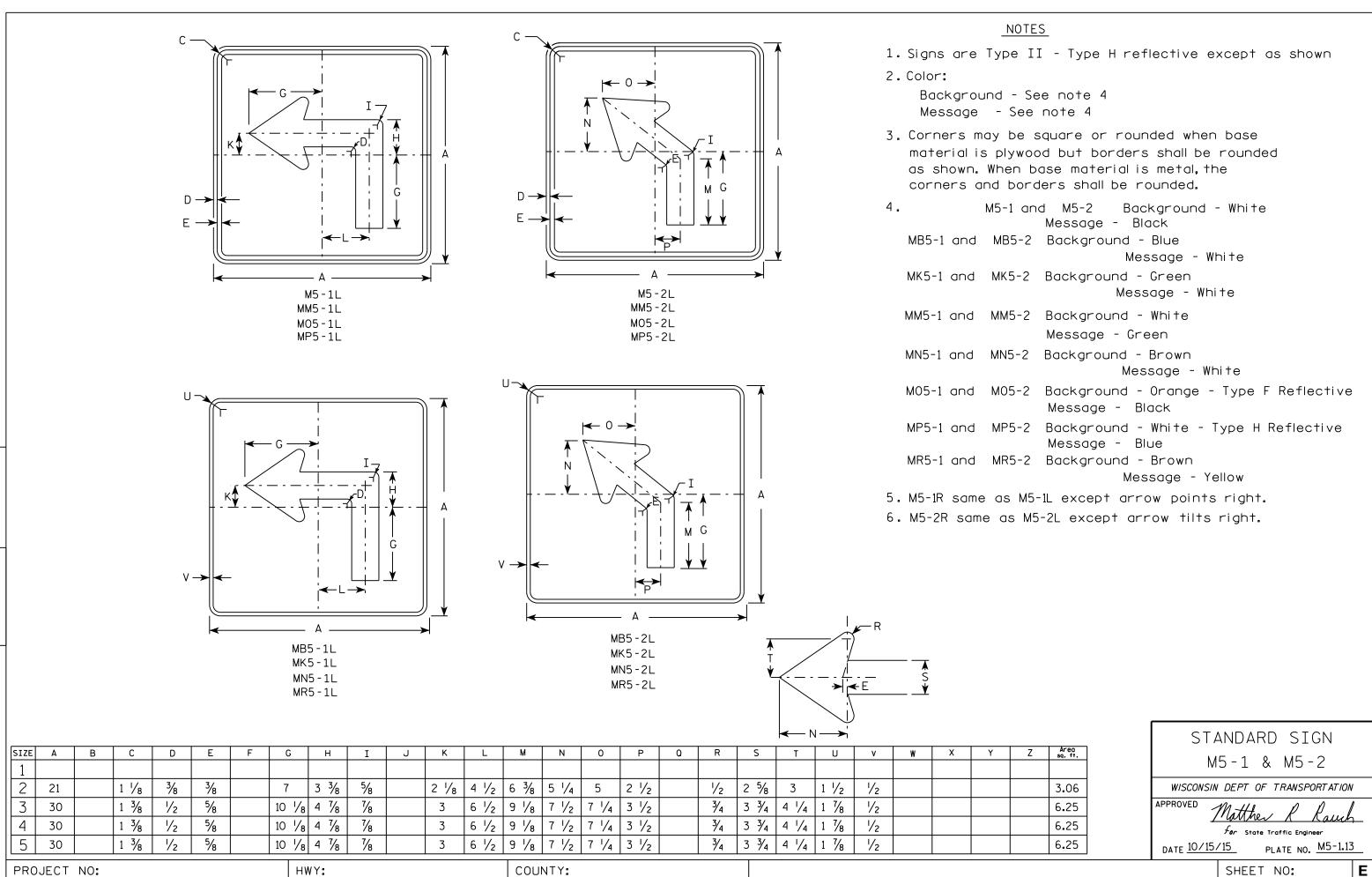
PLOT NAME :

PLOT S

PLOT SCALE : 5.959043:1.000000

PROJECT NO:

HWY:



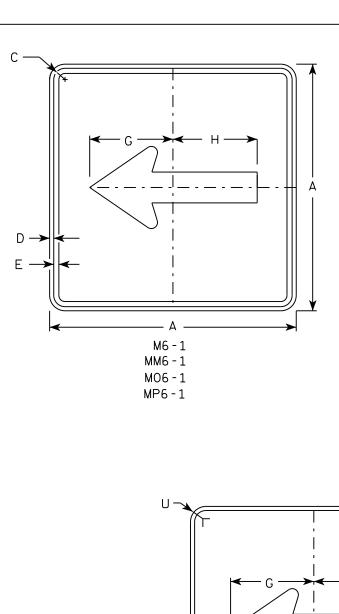
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

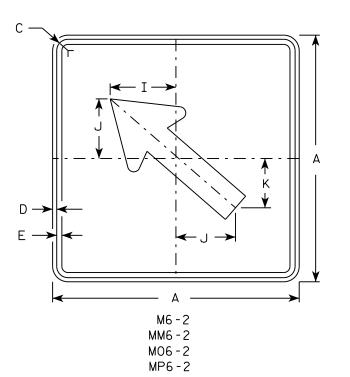
PLOT DATE . 01-DEC-2015 18:07

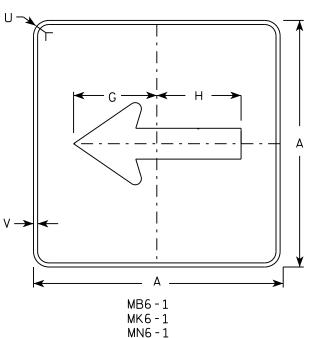
PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

311LL 1 110.

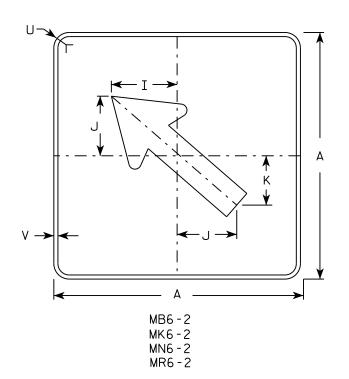






MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 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. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

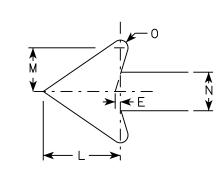
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-1.15 Ε

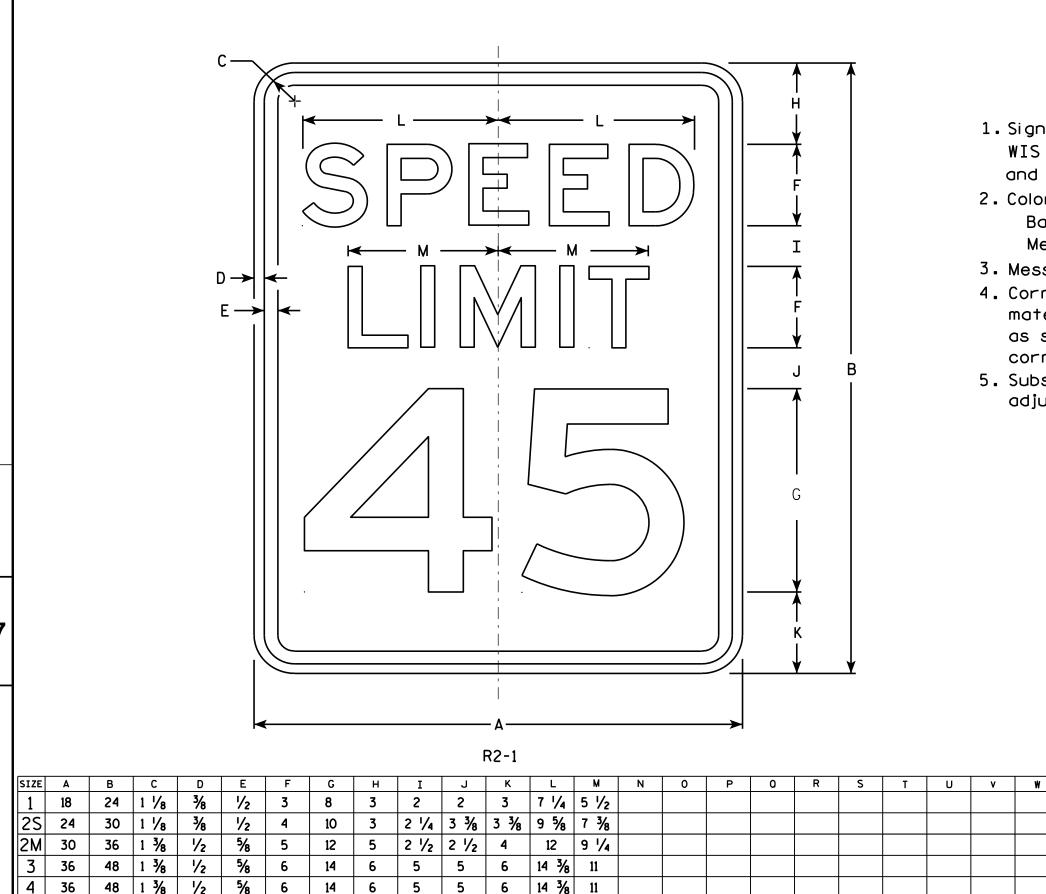
FILE NAME . C.\CAFfiles\Projects\tr stdblote\M61 DGN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1 WISCONSIN DEPT OF TRANSPORTATION APPROVED Matther R Raus For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

2 1/4

5

48

PROJECT NO:

60

PLOT DATE: 28-MAY-2010 08:32

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 4.717577:1.000000

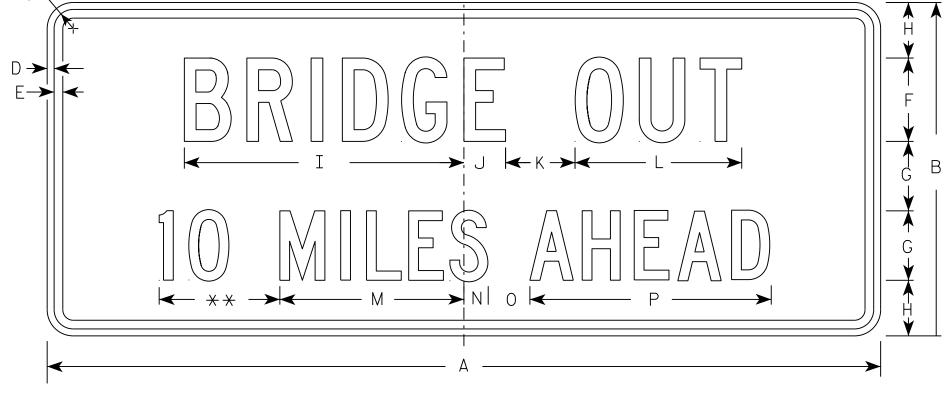
WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

1/4 MILE AND

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3 . 75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matthew R Rauch
For State Traffic Engineer

DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

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

PROJECT NO:



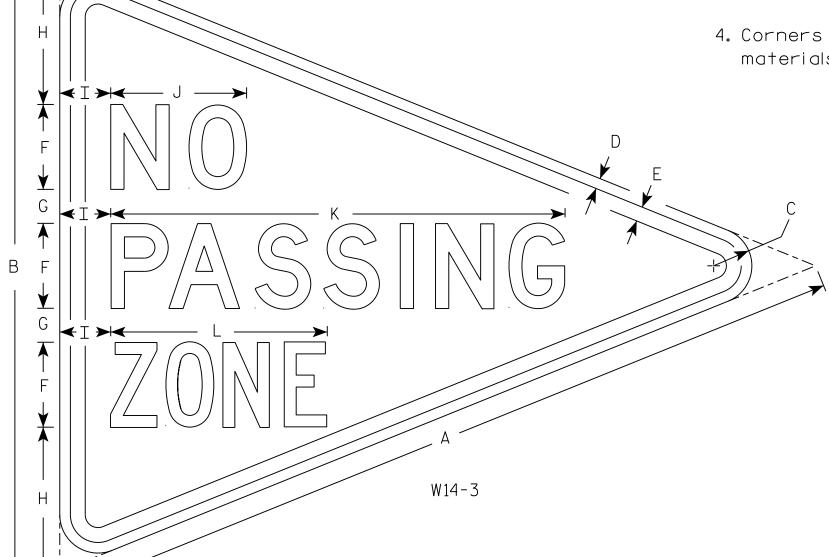
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message – Black

3. Message Series - Lines 1 and 2 are Series D. Line 3 is series C.

4. Corners and borders shall be rounded on all base materials for this sign.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	<i>7</i> ⁄8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											
	JECT	NO.	•					WY:			•			JNTY:	•	•	•	•			•	•	•	•			•

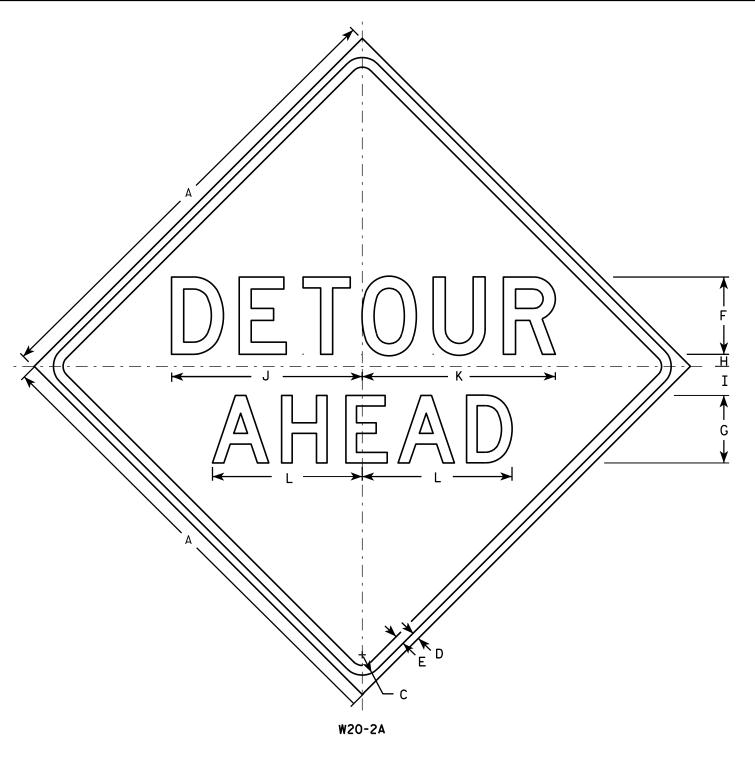
STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

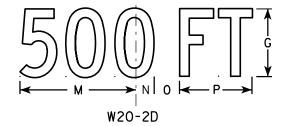
//W/ For DATE _3/21/17

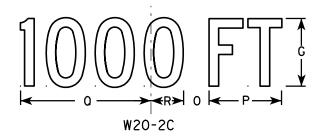
For State Traffic Engineer
TE 3/21/17 PLATE NO. W14-3.

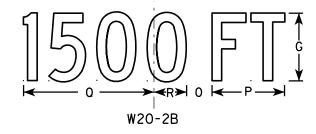
SHEET NO:

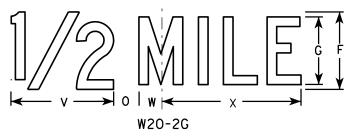


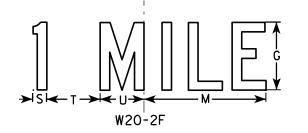
HWY:











<u>NOTES</u>

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

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

SIZE	Α		В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36	6		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48	8		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48	8		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0
3	48	8		2 1/4	¾	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48	8		2 1/4	3∕4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48	8		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

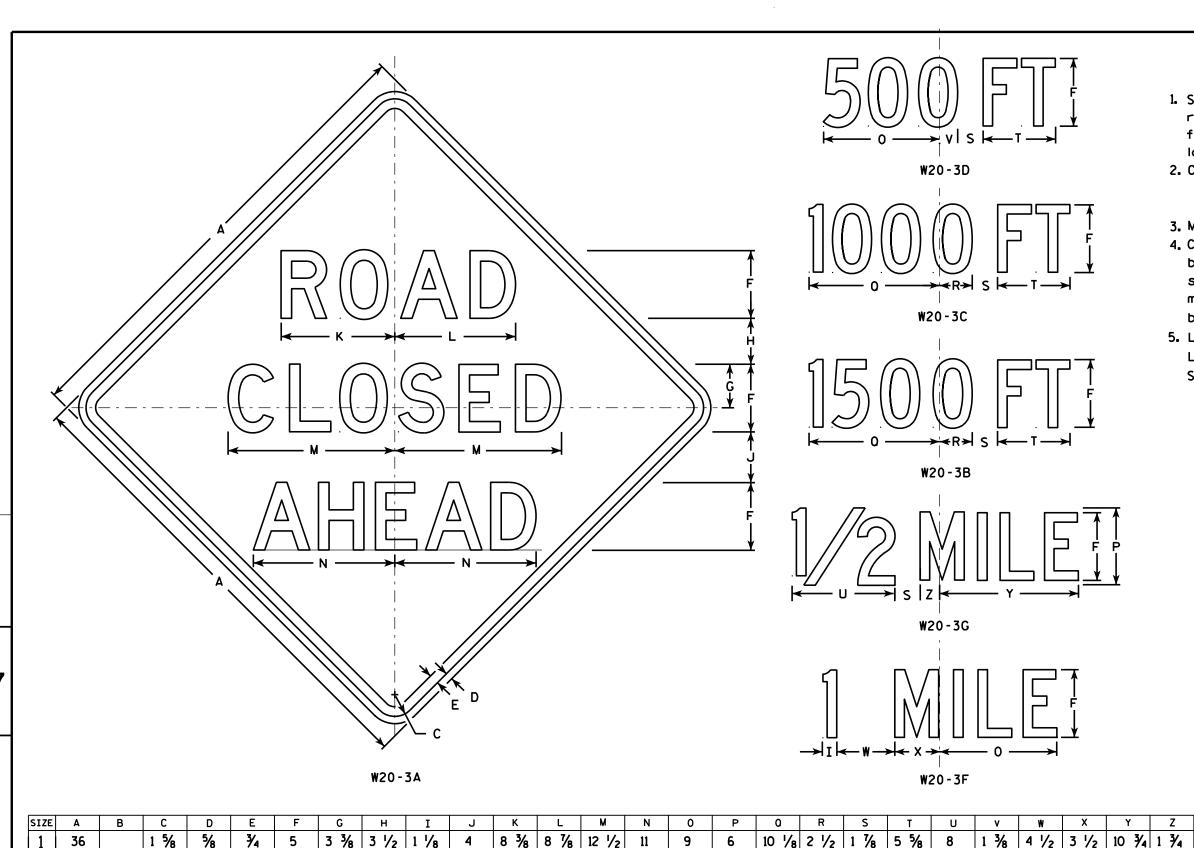
WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:

PROJECT NO:

PLOT NAME :



NOTES

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

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D.
 Line 3 is Series D for AHEAD and
 Series C for all other distances.

STANDARD SIGN
W20-3A, B, C, D, F & G
WISCONSIN DEPT OF TRANSPORTATION
APPROVED

Mathewall Rauh
For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO:

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

COUNTY:

PLOT DATE: 18-MAR-2011 12:08 PLOT BY: mscj9h

13 1/2 3 3/8 2 5/8

PLOT NAME :

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

10 % 1 %

7 1/2

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0

4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0

4 % | 14 % | 2 % | 16.0

4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0

4 5/8 14 3/8 2 3/8 16.0

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42

2 1/4

2M

5

48

48

48

48

PROJECT NO:

3/4

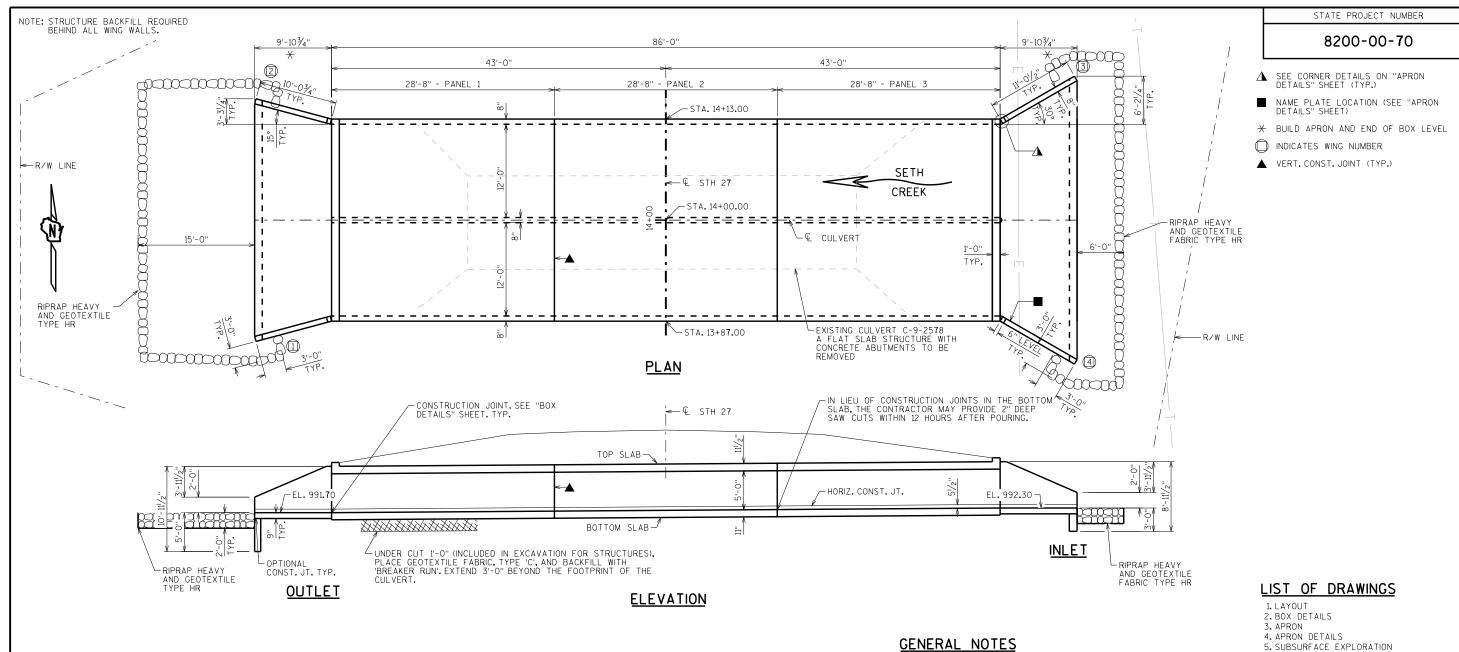
3/4

3/4

3/4

3/4

HWY:



DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05 OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:

8

DESIGNED FOR 3.5 TO 4.5 FT. OF FILL.

MATERIAL PROPERTIES:

— f'c = 3,500 P.S.I. — fy = 60,000 P.S.I. CONCRETE MASONRY:

BAR STEEL REINFORCEMENT:

TRAFFIC VOLUME

ADT = 3,100 (2021)

R.D.S. = 55 M.P.H.

STH 27

HYDRAULIC DATA

100 YEAR FREQUENCY

 $Q_{100} = 1200 \text{ C.F.S.}$ VEL.₁₀₀= 11.1 F.P.S. $HW_{-100} = EL. 1001.42$ WATERWAY AREA = 120 SQ. FT. DRAINAGE AREA = 3.3 SQ. MI. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

Q₂ = 244 C.F.S. VEL.2 = 2.7 F.P.S. HW.₂ = EL. 996.81

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 14+00	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-9-388	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1,157
311.0115	BREAKER RUN	CY	129
504.0100	CONCRETE MASONRY CULVERTS	CY	217
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	25,050
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	920
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	24
606.0300	RIPRAP HEAVY	CY	65
645.0105	GEOTEXTILE TYPE C	SY	409
645.0120	GEOTEXTILE TYPE HR	SY	131
	NON-BID ITEMS		
	FILLER	EACH	3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-9-388" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #10R #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS: BRETT FOLLETT (608) 266-0214 LAURA SHADEWALD (608) 267-9592

NO. DATE BY **BUREAU OF**

CHIEF STRUCTURES DESIGN ENGINEER STRUCTURE B-9-388

STH 27 OVER SETH CREEK CHIPPEWA DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

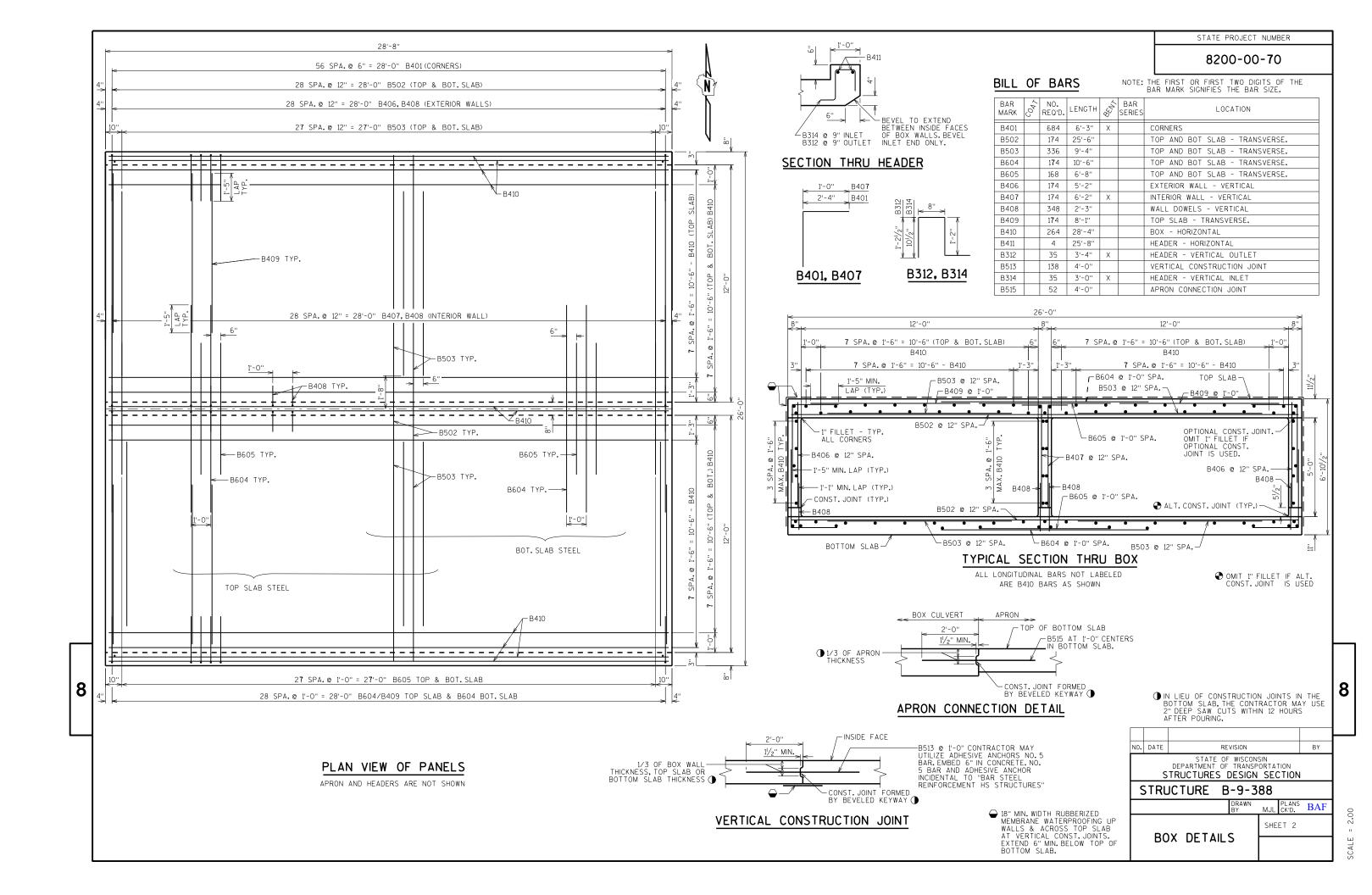
DESIGNED MJL CK'D. BAF BY MJL PLANS BAF

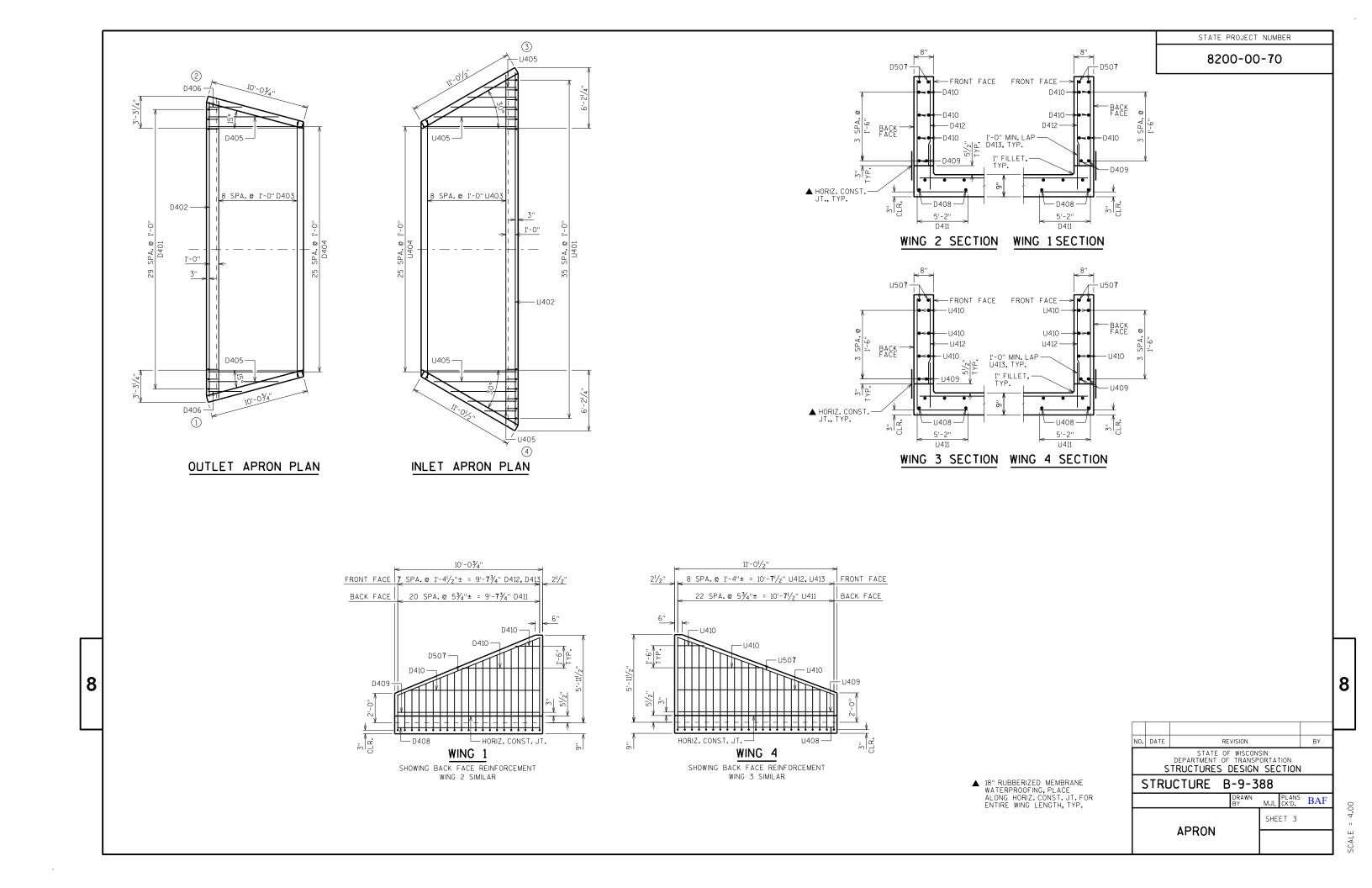
LAYOUT

SHEET 1 OF

DATE: MAY 2019

GOETZ





BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

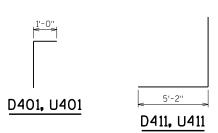
						AK MAKK SIGNIFIES THE BAK SIZE
BAR MARK	CO47	NO. REQ'D	LENGTH	8EW7	BAR SERIES	LOCATION
D401		30	5'-6"	Х		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	30'-1"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		9	28'-2"		Λ	OUTLET APRON SLAB HORIZ.
D404		26	9'-6"			OUTLET APRON HORIZ.
D405		2	7 '-2''			OUTLET APRON SLAB HORIZ.
D406		2	3'-5"			OUTLET APRON SLAB HORIZ.
D50 7	Х	4	10'-5"			OUTLET WINGS HORIZ. TOP BOTH FACES
D408		4	9'-8"			OUTLET APRON SLAB
D409	Х	4	9'-8"			OUTLET WINGS HORIZ. BOTTOM BOTH FACES
D410	Х	12	5'-3"		\triangle	OUTLET WINGS HORIZ.
D411	Х	42	9'-6"	Х	$ \Lambda $	OUTLET WINGS VERT.BACK FACE
D412	Х	16	3'-5"		$ \mathbf{\Lambda} $	OUTLET WINGS VERT.FRONT FACE
D413	Х	16	2'-0"			OUTLET WINGS DOWELS FRONT FACE
U401		36	3'-6"	Х		INLET APRON AND CUTOFF WALL VERT.
U402		3	36'-1"			INLET APRON AND CUTOFF WALL HORIZ.
U403		9	31'-0''		$ \Lambda $	INLET APRON SLAB HORIZ.
U404		26	9'-6"			INLET APRON HORIZ.
U405		8	5'-11"		Δ	INLET APRON SLAB HORIZ.
U507	Х	4	11'-3"			INLET WINGS HORIZ. TOP BOTH FACES
U408		4	10'-8''			INLET APRON SLAB
U409	Х	4	10'-8"			INLET WINGS HORIZ. BOTTOM BOTH FACES
U410	Х	12	5'-10''		\triangle	INLET WINGS HORIZ.
U411	Х	46	9'-6"	Х	Δ	INLET WINGS VERT. BACK FACE
U412	Х	18	3'-5"		lacktriangle	INLET WINGS VERT. FRONT FACE
U413	Х	18	2'-0"			INLET WINGS DOWELS FRONT FACE

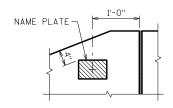
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

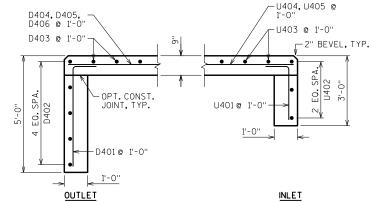
BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 9	26'-0" TO 30'-3"
D410	4 SERIES OF 3	1'-8" TO 8'-11"
D411	2 SERIES OF 21	7 '-6" TO 11'-5"
D412	2 SERIES OF 8	1'-5" TO 5'-4"
U403	1 SERIES OF 9	26'-4" TO 35'- 7 "
U405	2 SERIES OF 4	3'-4" TO 8'-5"
U410	4 SERIES OF 3	1'-10" TO 9'-10"
U411	2 SERIES OF 23	7 '-6" TO 11'-5"
U412	2 SERIES OF 9	1'-5" TO 5'-4"

BUNDLE AND TAG EACH SERIES SEPARATELY

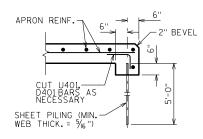




NAME PLATE LOCATION WING 4



CUT-OFF WALLS



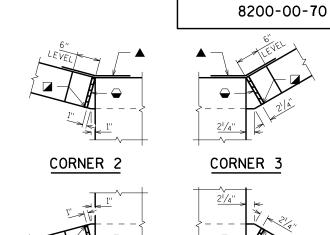
ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

FINISHED GRADE TOP OF BOX CULVERT -PAY LIMITS OF BACKFILL REQ'D -BACKFILL STRUCTURE -LIMITS OF UNDERCUT

TYPICAL SECTION THRU BOX CULVERT

- ◆ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- ☆ UNDERCUT 1'-0".EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES.PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

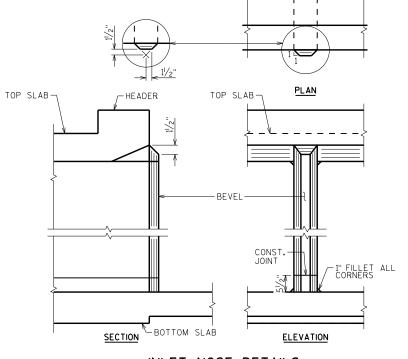


CORNER 1

CORNER 4

STATE PROJECT NUMBER

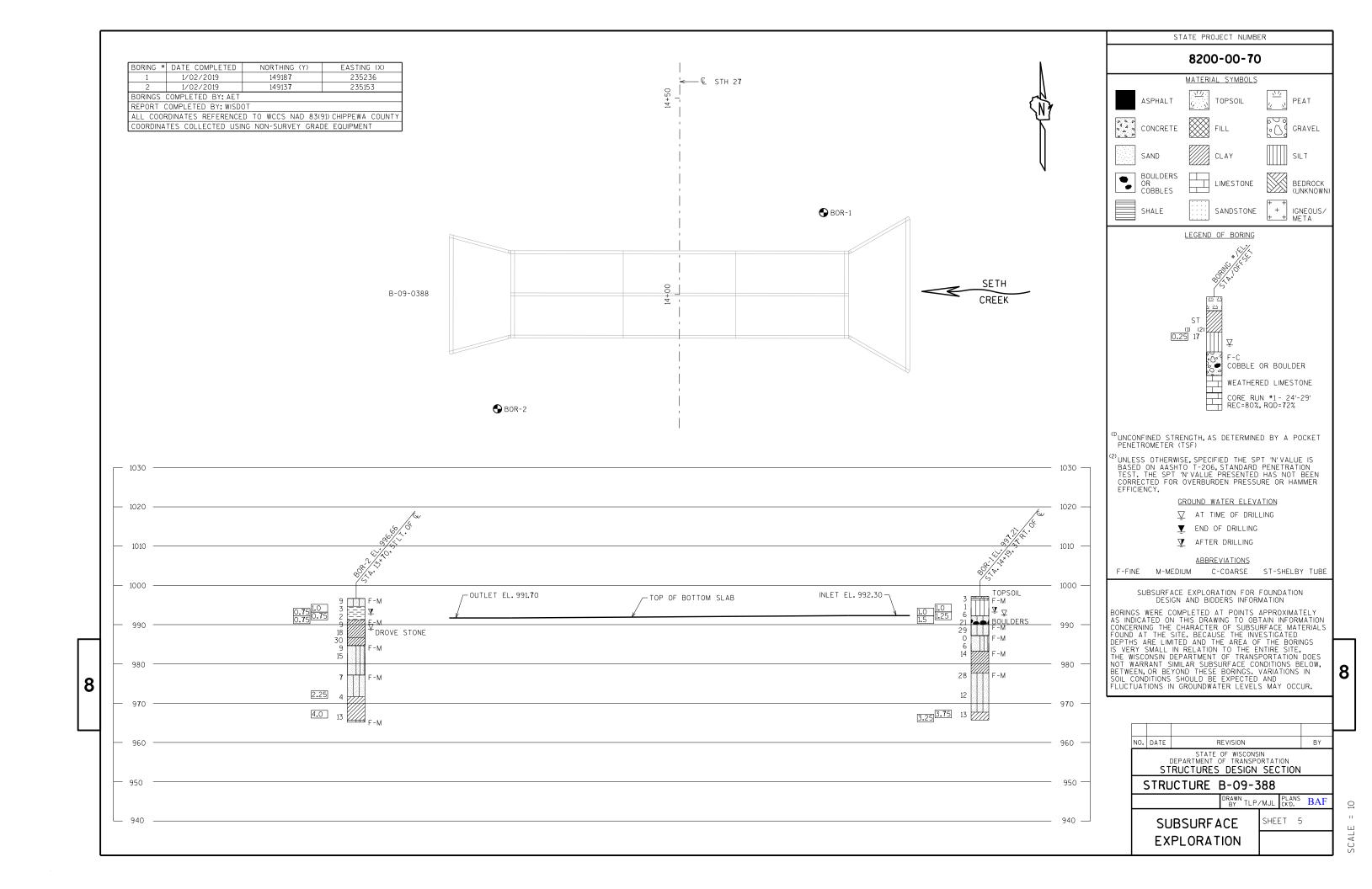
CORNER DETAILS

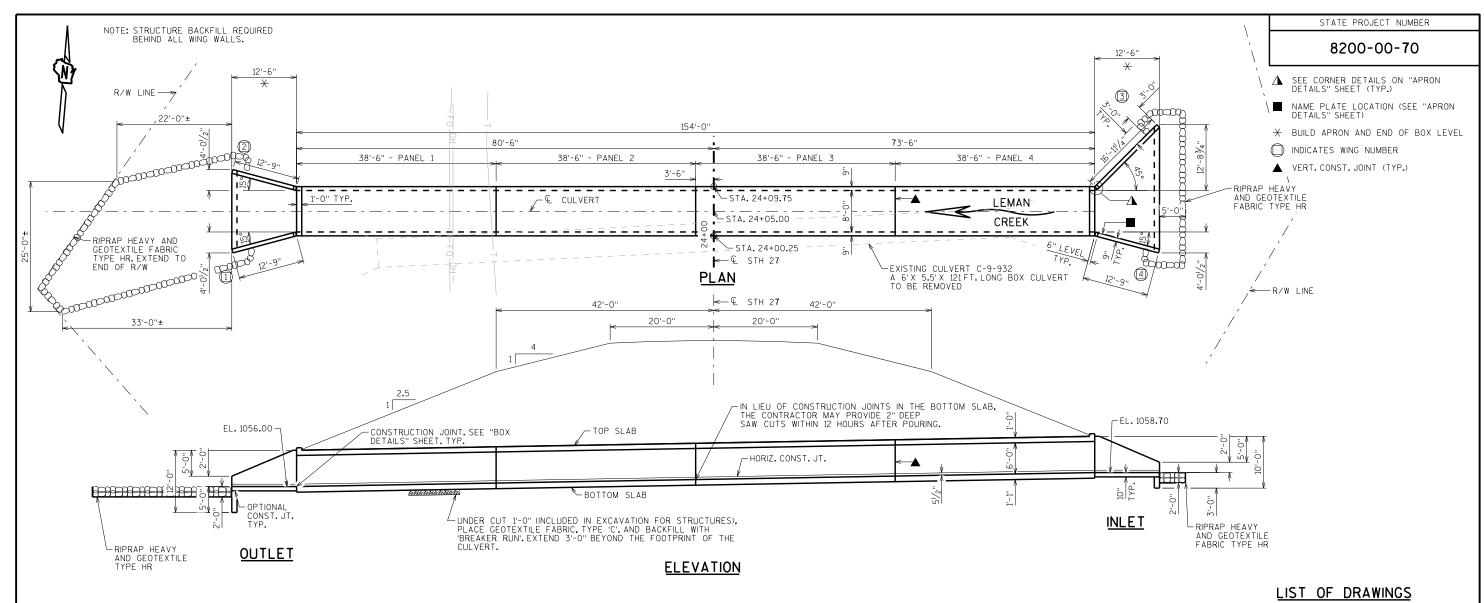


INLET NOSE DETAILS

- → 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.
- ☑ 1" BEVEL, TYP.
- ▲ 18" RUBBERIZED MEMBRANE WATERPROOFING.EXTEND FROM HORIZ.CONST.JT.TO TOP OF WALL.

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-9-388 MJL PLANS BAF SHEET 4 APRON DETAILS





DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.05 OPERATING RATING FACTOR: RF = 1.35 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:

8

DESIGNED FOR 20 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY: f'c = 3,500 P.S.I. BAR STEEL REINFORCEMENT: fy = 60,000 P.S.I.

TRAFFIC VOLUME

ADT = 3,100 (2021)

R.D.S. = 55 M.P.H.

STH 27

<u>HYDRAULIC DATA</u>

100 YEAR FREQUENCY

O₁₀₀ = 200 C.F.S. VEL.₁₀₀ = 14.1 F.P.S. HW.₁₀₀ = EL. 1064.13 WATERWAY AREA = 48 SO.FT. DRAINAGE AREA = 1 SO.MI. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

Q₂ = 39 C.F.S. VEL.₂ = 3.2 F.P.S. HW.₂ = EL. 1060.64

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 24+00	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-9-49	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	2,295
311.0115	BREAKER RUN	CY	109
504.0100	CONCRETE MASONRY CULVERTS	CY	188
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	19,540
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,220
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	27
606.0300	RIPRAP HEAVY	CY	69
645.0105	GEOTEXTILE TYPE C	SY	366
645.0120	GEOTEXTILE TYPE HR	SY	138
	NON-BID ITEMS		
	FILLER	EACH	3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BEVEL EXPOSED EDGES OF CONCRETE $\frac{\pi}{4}$ UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-9-49" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APPRON WING WALLS

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE OUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE *10R *2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

1. LAYOUT

2. BOX DETAILS

3. APRON 4. APRON DETAILS

5. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

BRETT FOLLETT (608) 266-0214 LAURA SHADEWALD (608) 267-9592

NO. DATE REVISION BY

BUREAU OF

COMMUNICATION BY

S RUC URES

ACCEPTED William C. Dulius 11/1/19

CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-9-49

STH 27 OVER LEMAN CREEK

COUNTY

CHIPPEWA TOWN

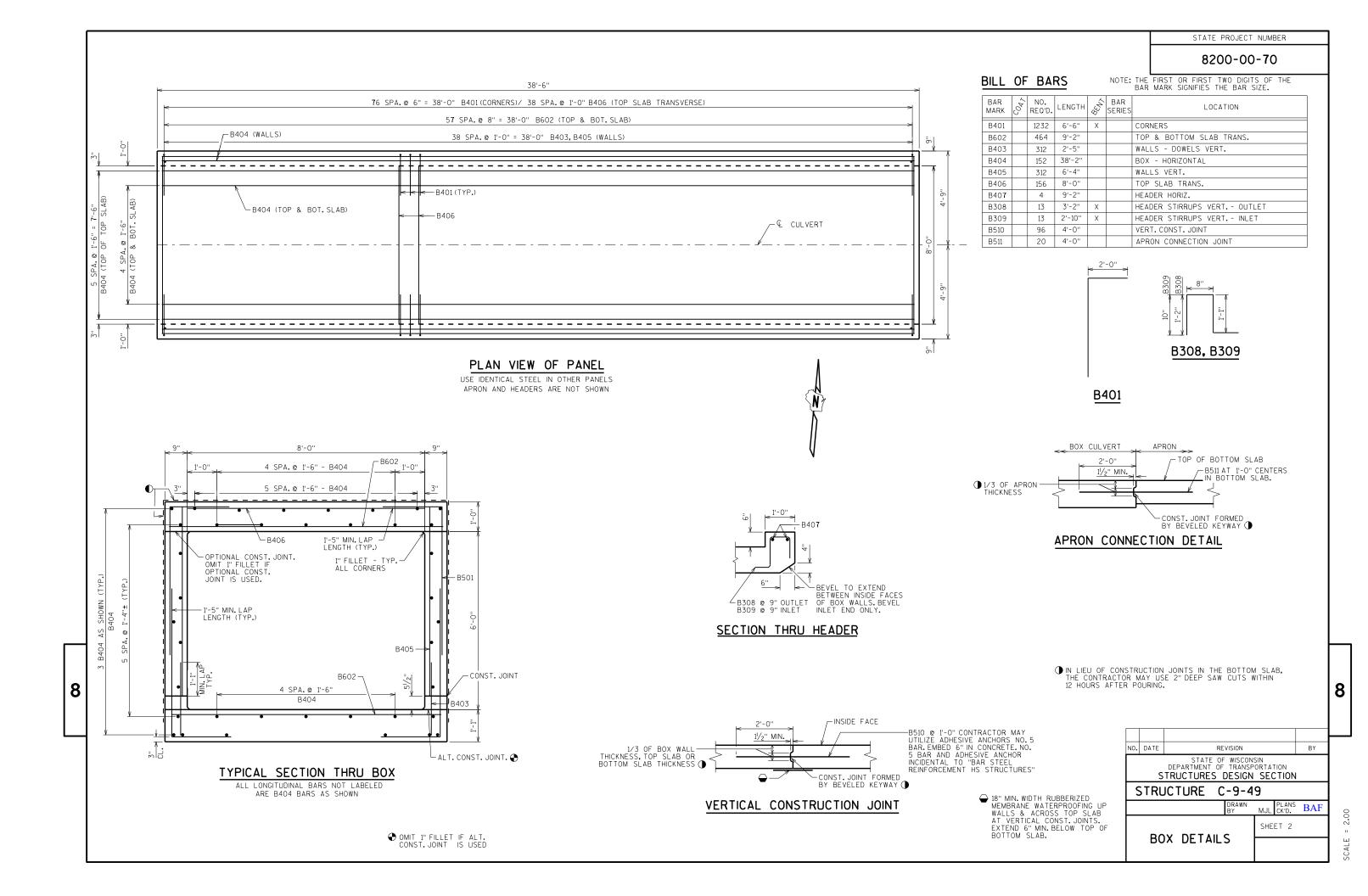
DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

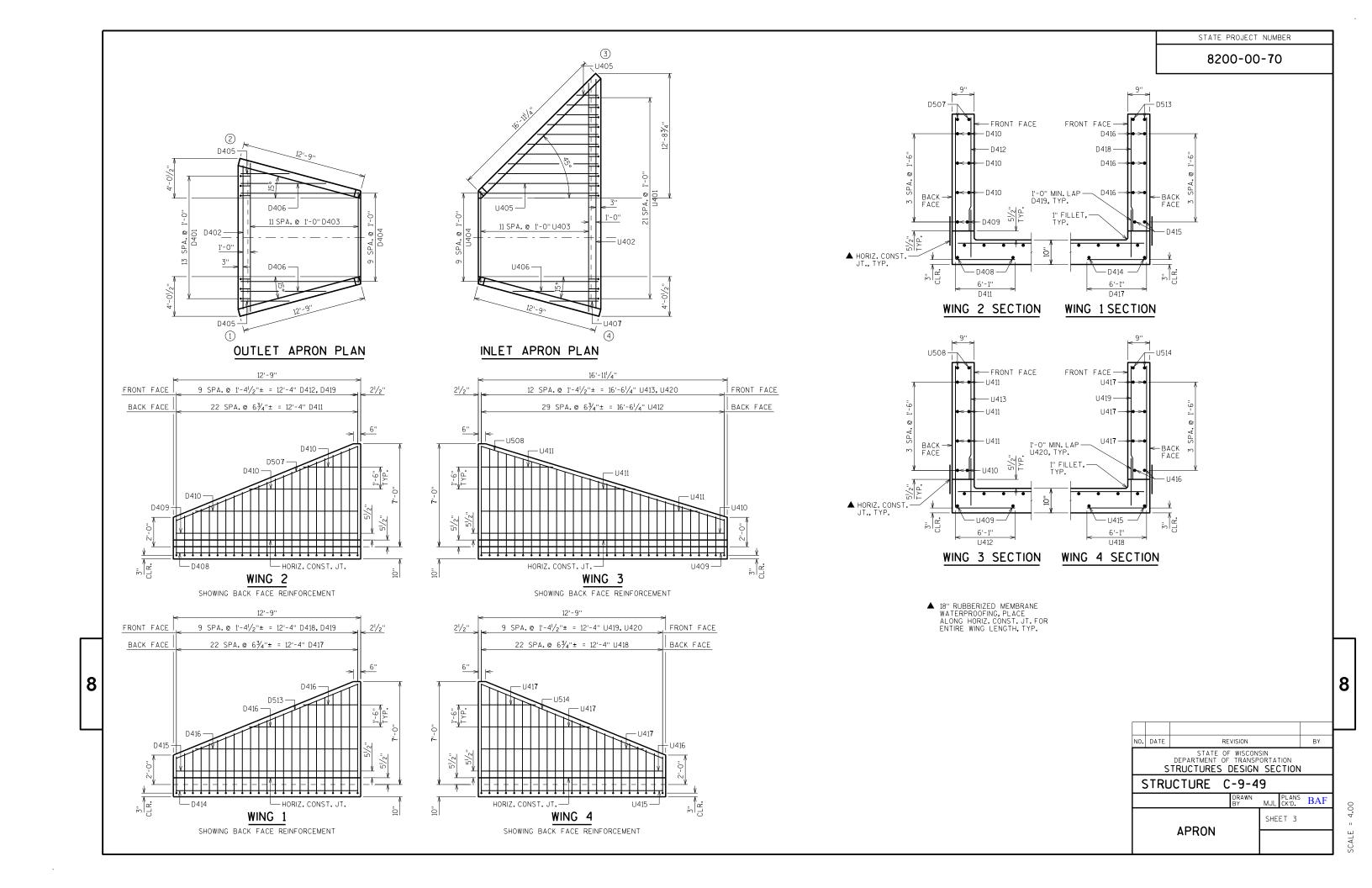
DESIGNED MULICKYD. BAF BAF DRAWN
MULICKYD. BAF BAF CRYD.

LAYOUT

SHEET 1 OF

I.D. 8200-00-00B DATE: MAY 2019





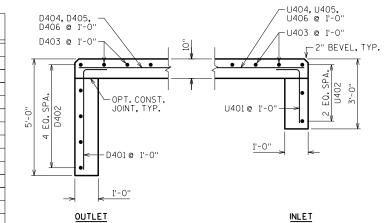
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

DILL			1113		В	AR MARK SIGNIFIES THE BAR SIZE
BAR MARK	C047	NO. REQ'D	LENGTH	8EN7	BAR SERIES	LOCATION
D401		14	5'-6"	Х		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	14'-8''			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		12	12'-3"		lacktriangle	OUTLET APRON SLAB HORIZ.
D404		10	12'-1"			OUTLET APRON HORIZ.
D405		2	5'-0"			OUTLET APRON SLAB HORIZ.
D406		2	8'-9"			OUTLET APRON SLAB HORIZ.
D50 7	Х	2	13'-4"			WING 2 HORIZ. TOP BOTH FACES
D408		2	12'-4"			WING 2 HORIZ. APRON SLAB
D409	Х	2	12'-4"			WING 2 HORIZ. BOTTOM BOTH FACES
D410	Х	6	7'-5"		lack	WING 2 HORIZ.
D411	Х	23	11'-0''	Х	lacktriangle	WING 2 VERT. BACK FACE
D412	Х	10	3'-11"		lacktriangle	WING 2 VERT.FRONT FACE
D513	Х	2	13'-4"			WING 1 HORIZ. TOP BOTH FACES
D414		2	12'-4"			WING 1 HORIZ. APRON SLAB
D415	Х	2	12'-4"			WING 1 HORIZ. BOTTOM BOTH FACES
D416	Х	6	7 '-5''		lacktriangle	WING 1 HORIZ.
D417	Х	23	11'-0''	Х	Δ	WING 1 VERT. BACK FACE
D418	Х	10	3'-11"		lack	WING 1 VERT. FRONT FACE
D419	Х	20	2'-1"			WINGS 1 & 2 DOWELS FRONT FACE
U401		22	3'-6"	Х		INLET APRON AND CUTOFF WALL VERT.
U402		3	23'-5"			INLET APRON AND CUTOFF WALL HORIZ.
U403		12	16'-4''		lack	INLET APRON SLAB HORIZ.
U404		10	12'-1"			INLET APRON HORIZ.
U405		10	6'-9''		lack	INLET APRON SLAB HORIZ.
U406		1	8'-9''			INLET APRON SLAB HORIZ.
U40 7		1	5'-0"			INLET APRON SLAB HORIZ.
U508	Х	2	17'-0''			WING 3 HORIZ. TOP BOTH FACES
U409		2	16'-6''			WING 3 HORIZ. APRON SLAB
U410	Х	2	16'-6''			WING 3 HORIZ.BOTTOM BOTH FACES
U411	Х	6	9'-10''		lack	WING 3 HORIZ.
U412	Х	30	11'-0''	Х	lack	WING 3 VERT.BACK FACE
U413	Х	13	3'-11"		lack	WING 3 VERT.FRONT FACE
U514	Х	2	13'-4''			WING 4 HORIZ. TOP BOTH FACES
U415		2	12'-4"			WING 4 HORIZ. APRON SLAB
U416	Х	2	12'-4''			WING 4 HORIZ. BOTTOM BOTH FACES
U41 7	Χ	6	7'-5"		lacktriangle	WING 4 HORIZ.
U418	Χ	23	11'-0''	Х	lacktriangle	WING 4 VERT. BACK FACE
U419	Х	10	3'-11"		lack	WING 4 VERT.FRONT FACE
U420	Χ	23	2'-1"			WINGS 3 & 4 DOWELS FRONT FACE

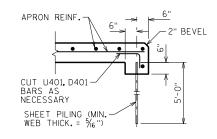
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 12	9'-3" TO 15'-2"
D410	2 SERIES OF 3	3'-9" TO 11'-1"
D411	1 SERIES OF 23	8'-6" TO 13'-5"
D412	1 SERIES OF 10	1'-5" TO 6'-4"
D416	2 SERIES OF 3	3'-9" TO 11'-1"
D41 7	1 SERIES OF 23	8'-6" TO 13'-5"
D418	1 SERIES OF 10	1'-5" TO 6'-4"
U403	1 SERIES OF 12	9'-4" TO 23'-4"
U405	1 SERIES OF 10	2'-3" TO 11'-3"
U411	2 SERIES OF 3	4'-11" TO 14'-9"
U412	1 SERIES OF 30	8'-6" TO 13'-5"
U413	1 SERIES OF 13	1'-5" TO 6'-4"
U417	2 SERIES OF 3	3'-9" TO 11'-1"
U418	1 SERIES OF 23	8'-6" TO 13'-5"
U419	1 SERIES OF 10	1'-5" TO 6'-4"
BUNDI	F AND TAG FACH	SERIES SEPARATEL`



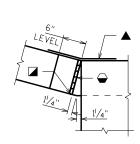
CUT-OFF WALLS

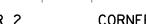


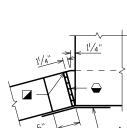
ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS, PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

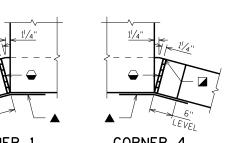
-FINISHED GRADE







CORNER 1



NO.	DATE		REVISION		BY
	S	DEPARTMENT	OF WISCONSIN OF TRANSPORT S DESIGN S		
S	STRL	JCTURE	C-9-49		
			DRAWN	PL ANS	

SHEET 4

TOP OF BOX CULVERT -PAY LIMITS OF BACKFILL REQ" -BACKFILL STRUCTURE TYPE B -LIMITS OF UNDERCUT

TYPICAL SECTION THRU BOX CULVERT

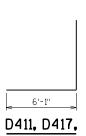
- ♦ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- ☆ UNDERCUT 1'-0".EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES.PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

→ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

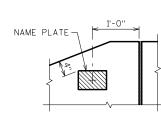
☐ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

D401, U401



U412, U418



NAME PLATE LOCATION WING 4

3¾"

STATE PROJECT NUMBER

8200-00-70

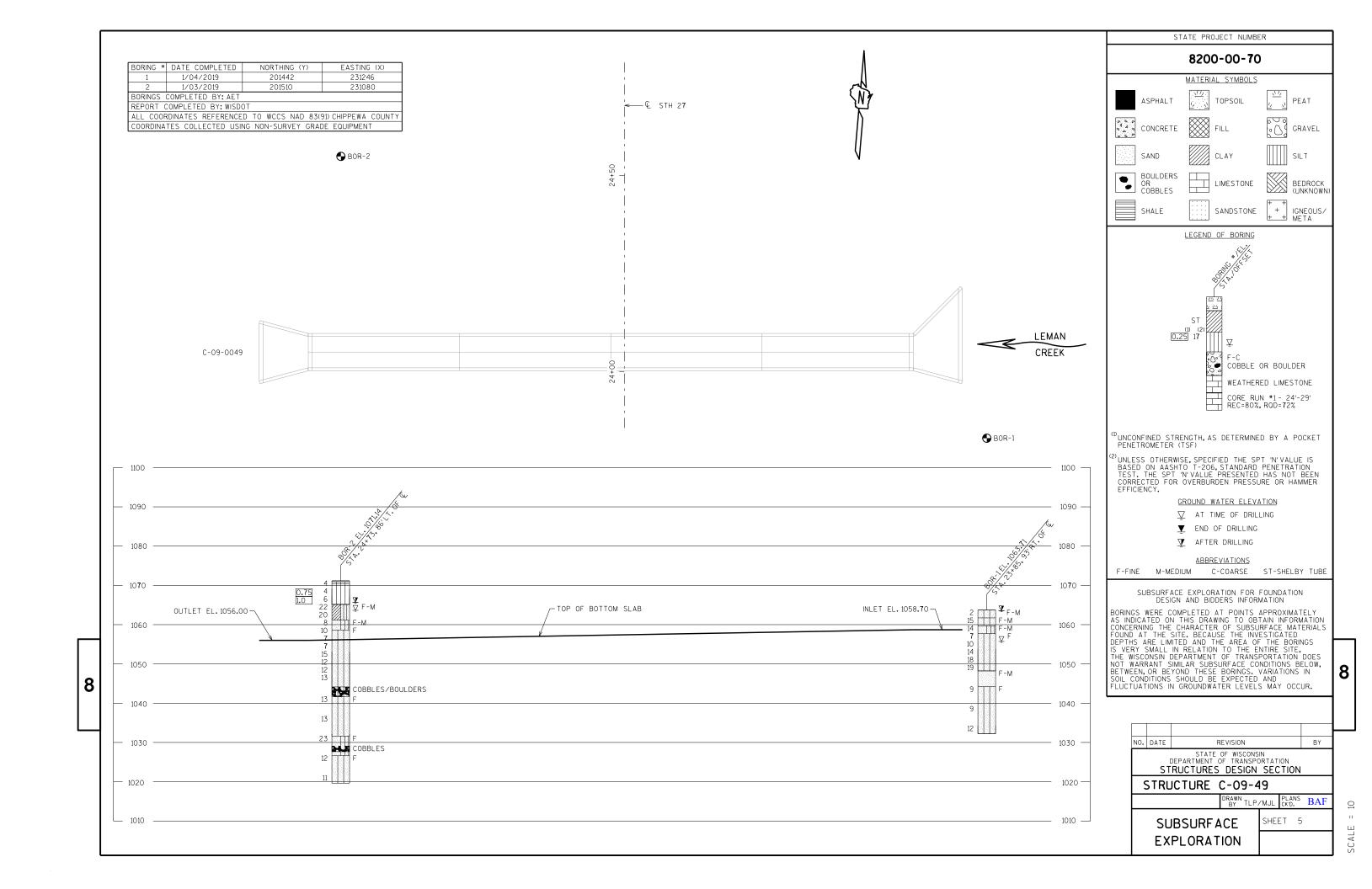
CORNER 2

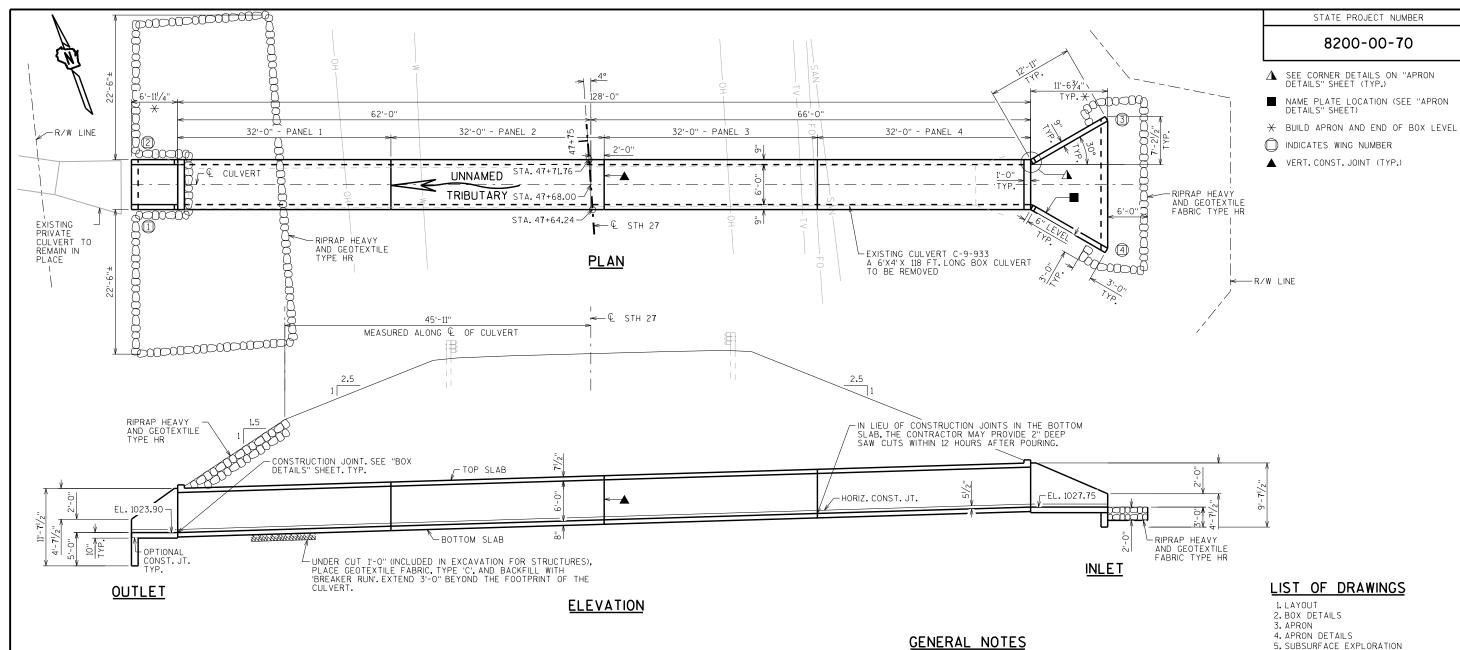
CORNER 3

CORNER 4

CORNER DETAILS

MJL PLANS BAF APRON DETAILS





DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD:

8

DESIGNED FOR 19 FT. OF FILL.

MATERIAL PROPERTIES:

-f'c = 3,500 P.S.I. -fy = 60,000 P.S.I. CONCRETE MASONRY: BAR STEEL REINFORCEMENT:

TRAFFIC VOLUME

ADT = 3,100 (2021)

R.D.S. = 45 M.P.H.

STH 27

HYDRAULIC DATA

100 YEAR FREQUENCY

 $Q_{100} = 200$ C.F.S. VEL.₁₀₀= 10.2 F.P.S. HW.₁₀₀ = EL. 1041.59 WATERWAY AREA = 36 SQ. FT. DRAINAGE AREA = 0.63 SQ. MI. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

 $Q_2 = 30 \text{ C.F.S.}$ VEL.2 = 7.6 F.P.S. HW.2 = EL. 1040.43

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 47+68	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-9-50	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1,625
311.0115	BREAKER RUN	CY	77
504.0100	CONCRETE MASONRY CULVERTS	CY	104
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	18,850
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	8 7 0
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	22
606.0300	RIPRAP HEAVY	CY	96
645.0105	GEOTEXTILE TYPE C	SY	262
645.0120	GEOTEXTILE TYPE HR	SY	186
	NON-BID ITEMS		
	FILLER	EACH	3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-9-50" SHALL BE THE EXISTING GROUNDLINE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOIT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:

BRETT FOLLETT (608) 266-0214 LAURA SHADEWALD (608) 26**7**-9592

NO. DATE BY REVISION **BUREAU OF**



STRUCTURE C-9-50

STH 27 OVER UNNAMED TRIBUTARY CHIPPEWA CORNEL DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

MJL PLANS BAF

MJL CK'D. BAF BY

SHEET 1 OF LAYOUT

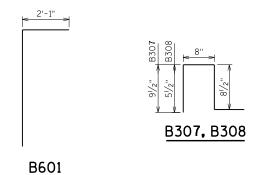


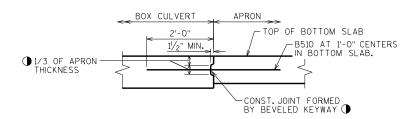
8200-00-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	C047	NO. REQ'D.	LENGTH	1N38	BAR SERIES	LOCATION
B601		1024	6'-6"	Χ		CORNERS
B502		512	7'-2"			TOP & BOTTOM SLAB TRANS.
B403		264	2'-0"			WALLS - DOWELS VERT.
B404		128	31'-8''			LONGITUDINAL
B405		264	6'-0"			WALLS VERT.
B406		4	7'-2"			HEADER HORIZ.
B30 7		11	2'-5"	Х		HEADER STIRRUPS VERT OUTLET
B308		11	2'-1''	Χ		HEADER STIRRUPS VERT INLET
B509		84	4'-0''			VERT. CONST. JOINT
B510		16	4'-0''			APRON CONNECTION JOINT





APRON CONNECTION DETAIL

♠ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

NO. DATE REVISION

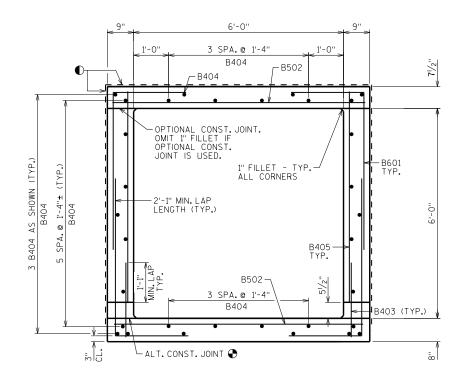
BOX DETAILS

32'-0" 63 SPA. @ 6" = 31'-6" B601 (CORNERS) 63 SPA.@ 6" = 31'-6" B502 (TOP & BOT. SLAB) -B404 (WALLS) 31 SPA. @ 1'-0" = 31'-0" B403, B405 (WALLS) -B404 (TOP & BOT.SLAB) 3 SPA. B404 (

PLAN VIEW OF PANEL

USE IDENTICAL STEEL IN OTHER PANELS APRON AND HEADERS ARE NOT SHOWN

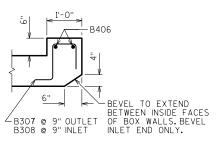




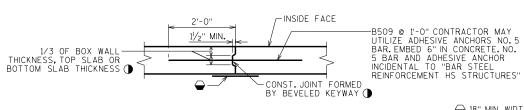
TYPICAL SECTION THRU BOX

ALL LONGITUDINAL BARS NOT LABELED ARE B404 BARS AS SHOWN

OMIT 1" FILLET IF ALT. CONST. JOINT IS USED



SECTION THRU HEADER

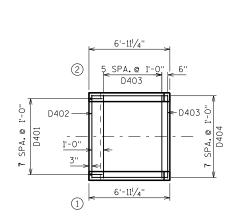


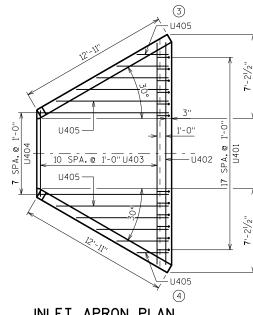
VERTICAL CONSTRUCTION JOINT

→ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS & ACROSS TOP SLAB AT VERTICAL CONST. JOINTS. EXTEND 6" MIN. BELOW TOP OF BOTTOM SLAB.

BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE C-9-50 MJL PLANS BAF SHEET 2

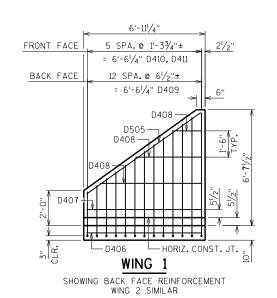
8200-00-70



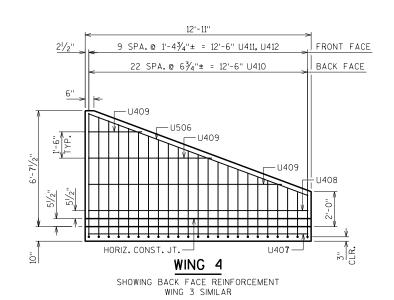


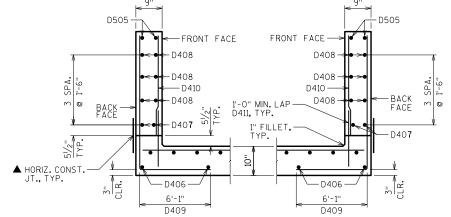
OUTLET APRON PLAN



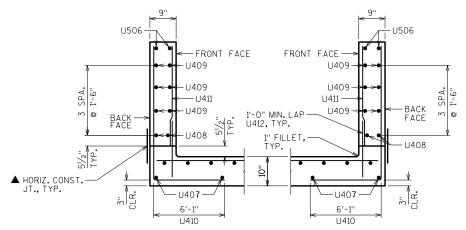


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WING 2 SECTION WING 1 SECTION



WING 3 SECTION WING 4 SECTION

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-9-50

SHEET 3 **APRON**

MJL PLANS BAF

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	C047	NO. REQ'D	LENGTH	BENZ	BAR SERIES	LOCATION
D401		8	5'-6"	Х		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	7'-0"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		7	7'-2"			OUTLET APRON SLAB HORIZ.
D404		8	6'-6"			OUTLET APRON HORIZ.
D505	Х	4	8'-0"			OUTLET WINGS HORIZ. TOP BOTH FACES
D406		4	6'-6"			OUTLET APRON SLAB
D40 7	Х	4	6'-6"			OUTLET WINGS HORIZ. BOTTOM BOTH FACES
D408	Х	12	3'-9"		lack	OUTLET WINGS HORIZ.
D409	Х	26	10'-10''	Х	lacktriangle	OUTLET WINGS VERT.BACK FACE
D410	Х	12	3'-9"		lacktriangle	OUTLET WINGS VERT.FRONT FACE
D411	Х	12	2'-1"			OUTLET WINGS DOWELS FRONT FACE
U401		18	3'-6"	Х		INLET APRON AND CUTOFF WALL VERT.
U402		3	19'-1"			INLET APRON AND CUTOFF WALL HORIZ.
U403		11	13'-3''		lacktriangle	INLET APRON SLAB HORIZ.
U404		8	11'-1''			INLET APRON HORIZ.
U405		10	6'-3"		Δ	INLET APRON SLAB HORIZ.
U506	Х	4	13'-5"			INLET WINGS HORIZ. TOP BOTH FACES
U40 7		4	12'-6"			INLET APRON SLAB
U408	Х	4	12'-6"			INLET WINGS HORIZ. BOTTOM BOTH FACES
U409	Χ	12	7'-1"		Δ	INLET WINGS HORIZ.
U410	Χ	46	10'-10''	Х	Δ	INLET WINGS VERT. BACK FACE
U411	Х	20	3'-9"		lack	INLET WINGS VERT. FRONT FACE
U412	Χ	20	2'-1"			INLET WINGS DOWELS FRONT FACE

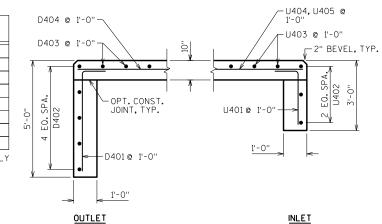
LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

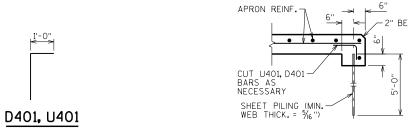
BAR MARK	NO. REQ'D	LENGTH
D408	4 SERIES OF 3	1'-8" TO 5'-10"
D409	2 SERIES OF 13	8'- 7 " TO 13'-1"
D410	2 SERIES OF 6	1'-5" TO 6'-0"
U403	1 SERIES OF 11	7 '-5" TO 19'-0"
U405	2 SERIES OF 5	2'-9" TO 9'-8"
U409	4 SERIES OF 3	3'-1" TO 11'-1"
U410	2 SERIES OF 23	8'- 7 " TO 13'-1"
U411	2 SERIES OF 10	1'-5" TO 6'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY

6'-1" D409, U410



CUT-OFF WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

-FINISHED GRADE

-PAY LIMITS OF BACKFILL

-BACKFILL STRUCTURE TYPE B

TOP OF BOX CULVERT

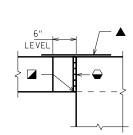
-LIMITS OF UNDERCUT

TYPICAL SECTION

THRU BOX CULVERT

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

☆ UNDERCUT 1'-O".EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES.PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

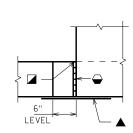


NAME PLATE LOCATION

WING 4

NAME PLATE -





CORNER 1

STATE PROJECT NUMBER

8200-00-70

CORNER 4

CORNER DETAILS

→ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ, CONS JT. TO TOP OF WING.

☐ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING.EXTEND FROM HORIZ.CONST.JT.TO TOP OF WALL.

NO. DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

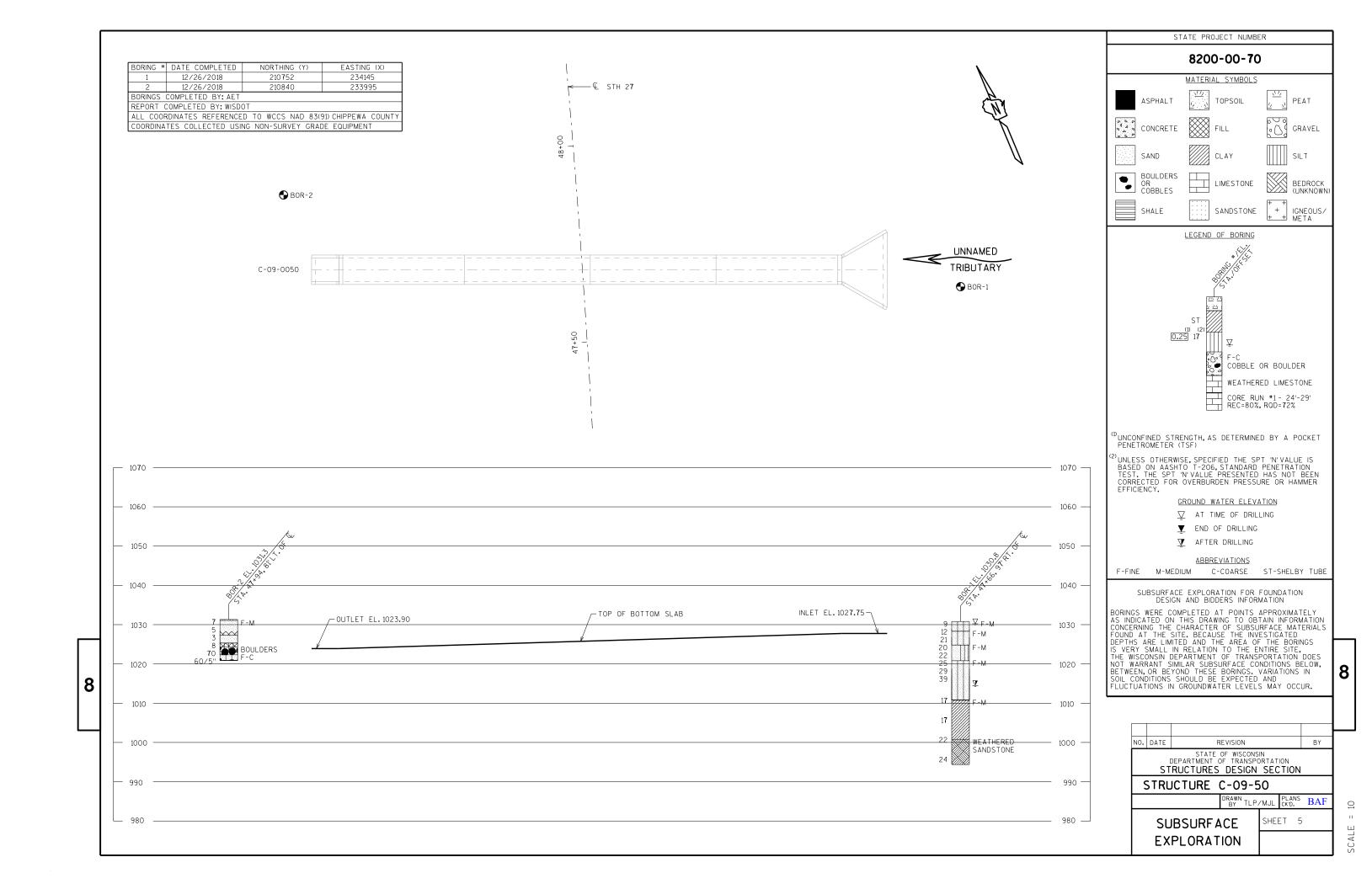
STRUCTURE C-9-50

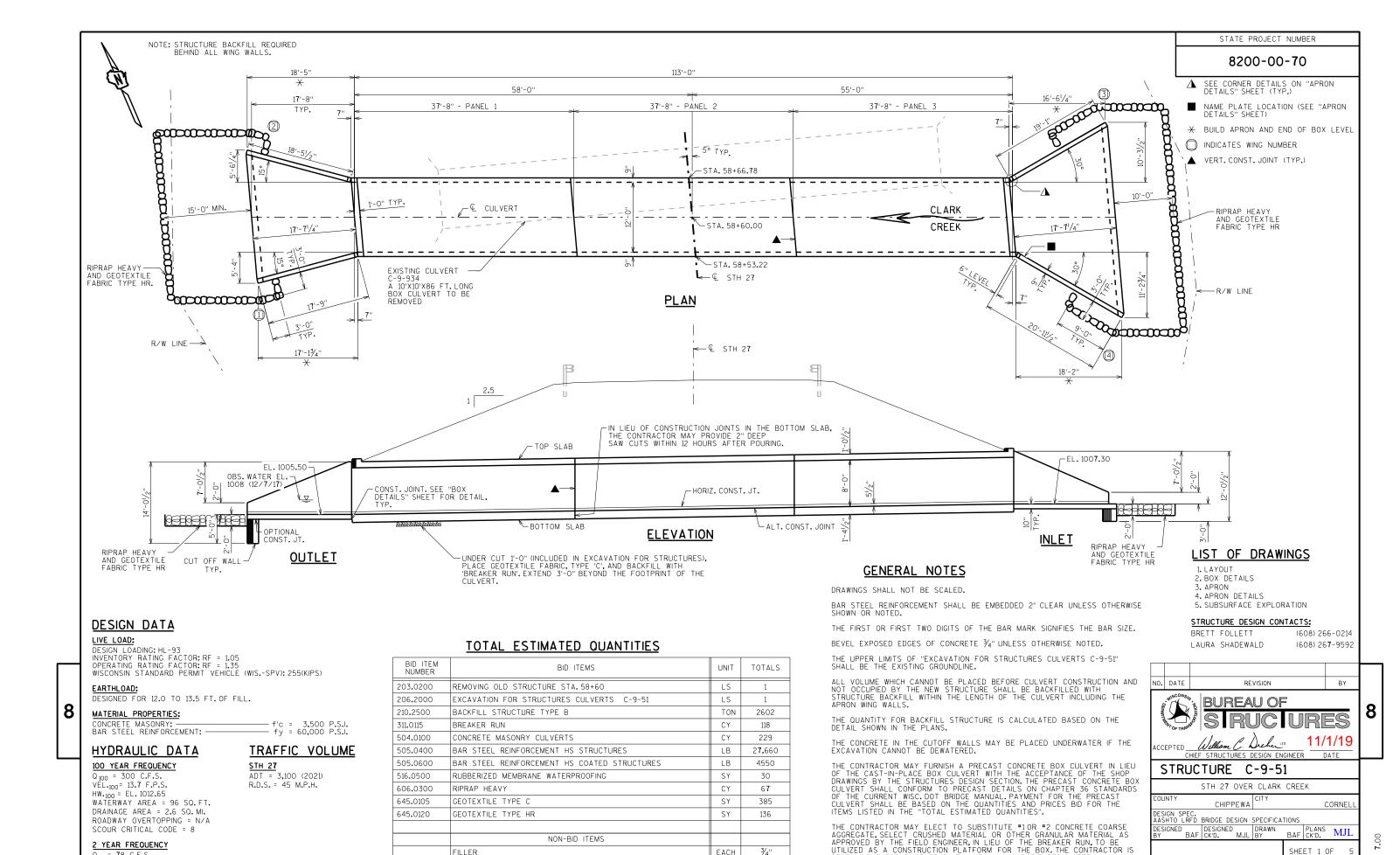
MJL PLANS BAF SHEET 4

APRON DETAILS

8

BY





EACH

3/4"

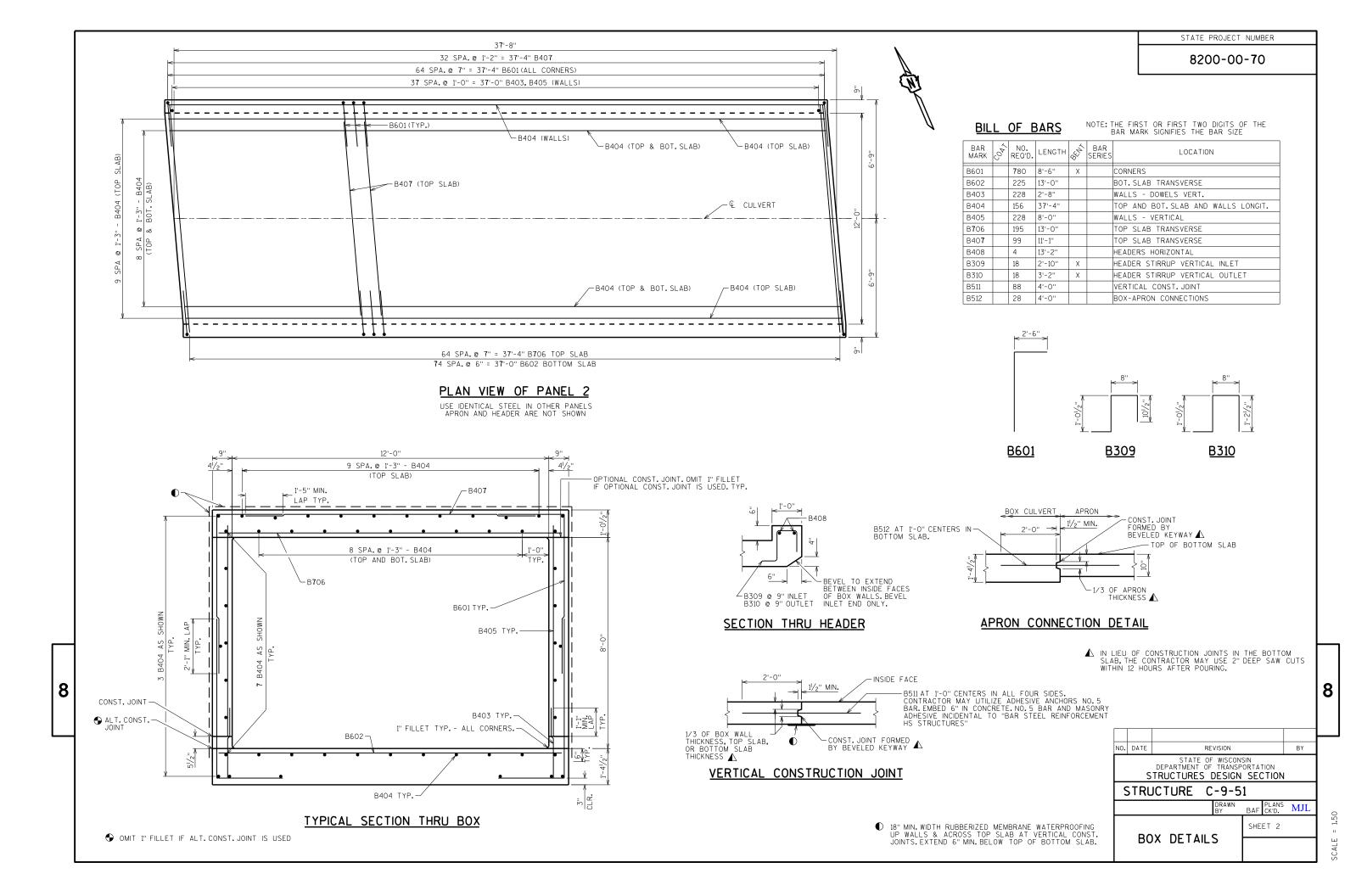
RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

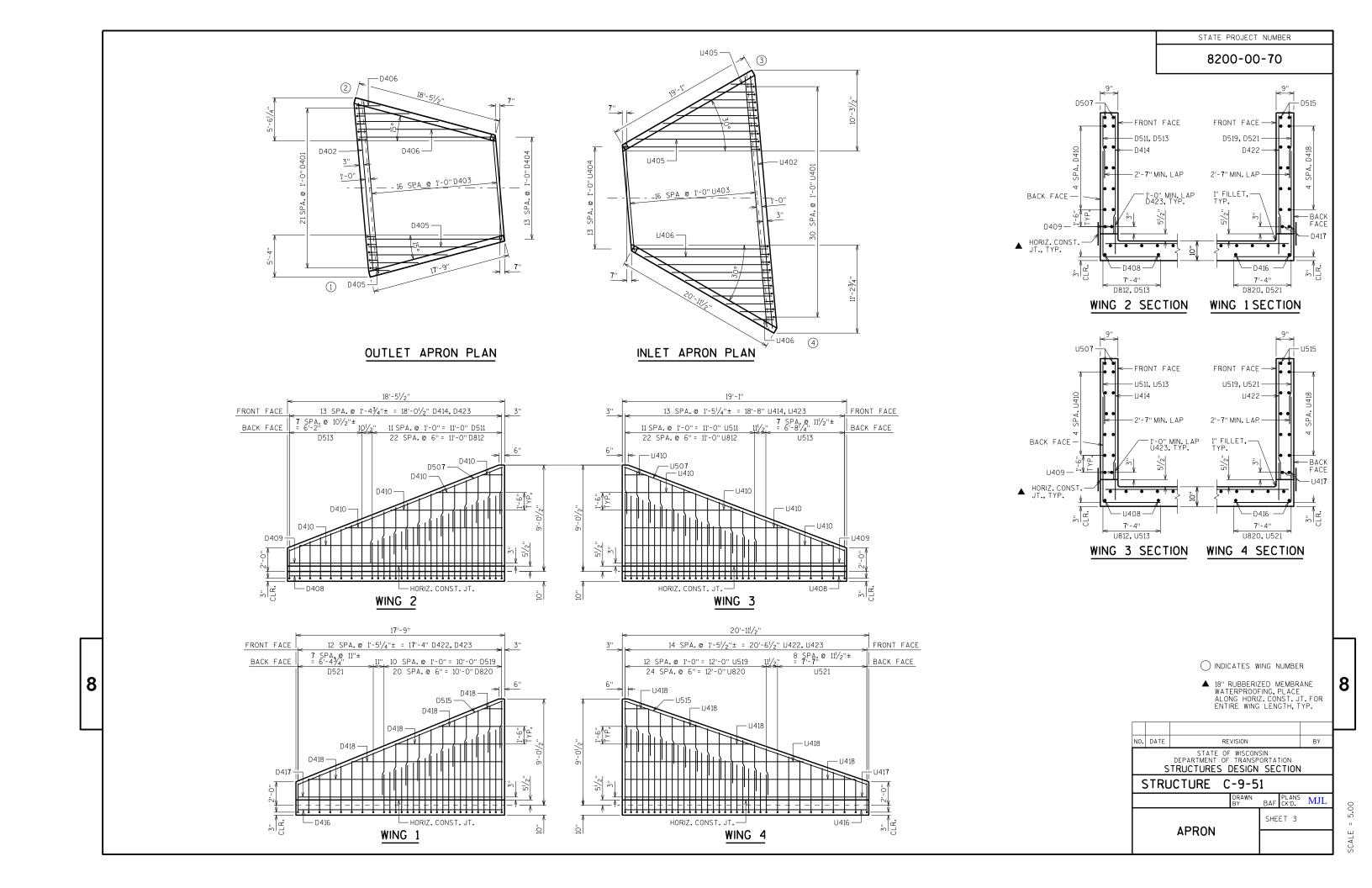
FILLER

Q₂ = **7**8 C.F.S.

VEL.2 = 5.2 F.P.S. HW.₂ = EL.1009.67 LAYOUT

SHEET 1 OF

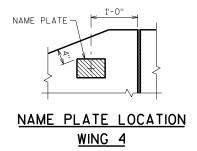




NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

DILL			1113		B	BAR MARK SIGNIFIES THE BAR SIZE				
BAR MARK	COAY	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION				
D401		22	5'-5"	Х		OUTLET APRON AND CUTOFF WALL VERT.				
D402		5	21'-5"			OUTLET APRON AND CUTOFF WALL HORIZ.				
D403		17	17'-8''		lack	OUTLET APRON SLAB HORIZ.				
D404		14	17'-3"			OUTLET APRON HORIZ.				
D405		4	8'-2"			OUTLET APRON SLAB HORIZ.				
D406		4	8'-7"			OUTLET APRON SLAB HORIZ.				
D50 7	X	2	19'-5"			WING 2 HORIZ. TOP BOTH FACES				
D408		2	18'-1"			WING 2 HORIZ. APRON SLAB				
D409	X	2	18'-1"			WING 2 HORIZ. BOTTOM BOTH FACES				
D410	X	10	9'-8"			WING 2 HORIZ.				
D511	X	12	4'-3"			WING 2 VERT. BACK FACE				
D812	X	23	12'-11''	Х		WING 2 VERT. BACK FACE				
D513	X	8	11'-0"	X	Ā	WING 2 VERT. BACK FACE				
D414	X	14	4'-11"		$\overline{\Lambda}$	WING 2 VERT. FRONT FACE				
D515	X	2	18'-9"			WING 1 HORIZ, TOP BOTH FACES				
D416	<u> </u>	2	17'-4"			WING 1HORIZ. APRON SLAB				
D41 7	X	2	17'-4"			WING 1HORIZ. BOTTOM BOTH FACES				
D418	X	10	9'-3"		lacksquare	WING THORIZ.				
D519	X	11	4'-5"		-	WING 1 VERT. BACK FACE				
D820	X	21	12'-9"	Х		WING 1 VERT. BACK FACE				
D521	X	8	11'-1"	X		WING 1 VERT. BACK FACE				
D422	X	13	4'-11"	_^		WING 1 VERT. FRONT FACE				
D423	X	27	2'-1"		-	WINGS 1 & 2 DOWELS FRONT FACE				
U401	<u> </u>	31	3'-5"	Х		INTLET APRON AND CUTOFF WALL VERT.				
U402		3	32'-2"	^		INLET APRON AND CUTOFF WALL HORIZ.				
U403		17	22'-10"			INLET APRON SLAB HORIZ.				
U404		14	17'-3"		-	INLET APRON HORIZ.				
U405		8	9'-4"		lacksquare	INLET APRON SLAB HORIZ.				
U406		9	9'-3"			INLET APRON SLAB HORIZ.				
U507	X	2	20'-0"		-	WING 3 HORIZ. TOP BOTH FACES				
U408	 ^	2	18'-8"			WING 3 HORIZ, APRON SLAB				
U409	X	2	18'-8"			WING 3 HORIZ. BOTTOM BOTH FACES				
U410	X	10	9'-11"		lacksquare	WING 3 HORIZ.				
U511	X	12	4'-4"		-	WING 3 VERT. BACK FACE				
U812	X	23	12'-10"	Х		WING 3 VERT. BACK FACE				
U513	^	8	11'-0"	X	$lack \Delta$	WING 3 VERT. BACK FACE				
U414	X	14	4'-11"	^		WING 3 VERT. FRONT FACE				
U515	X	2	21'-9"			WING 4 HORIZ. TOP BOTH FACES				
U416	+^	2	20'-7"			WING 4 HORIZ. APRON SLAB				
U417	X	2	20'-7"			WING 4 HORIZ, BOTTOM BOTH FACES				
U418	X	10	11'-0"			WING 4 HORIZ.				
U519	X	13	4'-5"			WING 4 VERT. BACK FACE				
U820	X	25	12'-10"	Х		WING 4 VERT. BACK FACE				
U521	X	9	11'-0"	X		WING 4 VERT. BACK FACE				
U521 U422	X	15	4'-11"	^	<u> </u>	WING 4 VERT. FRONT FACE				
U423	X	29	2'-1''			WINGS 3 & 4 DOWELS FRONT FACE				

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



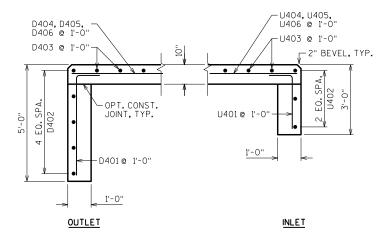
BAR SERIES TABLE

BAR MARK	NO.REQ'D	LENGTH
D403	1 SERIES OF 17	13'-4" TO 22'-0"
D405	1 SERIES OF 4	2'-5" TO 13'-11"
D406	1 SERIES OF 4	3'-1" TO 14'-0"
D410	2 SERIES OF 5	2'-0" TO 1 7 '-3"
D812	1 SERIES OF 23	10'-9" TO 15'-0"
D513	1 SERIES OF 8	9'-9" TO 12'-2"
D414	1 SERIES OF 14	1'-5" TO 8'-5"
D418	2 SERIES OF 5	1'-11" TO 16'- 7 "
D820	1 SERIES OF 21	10'-9" TO 14'-9"
D521	1 SERIES OF 8	9'-9" TO 12'-4"
D422	1 SERIES OF 13	1'-5" TO 8'-5"
U403	1 SERIES OF 17	13'-6" TO 32'-2"
U405	1 SERIES OF 8	2'-11" TO 15'-8"
U406	1 SERIES OF 9	2'-8" TO 15'-10"
U410	2 SERIES OF 5	2'-0" TO 1 7 '-10"
U812	1 SERIES OF 23	10'-9" TO 14'-10"
U513	1 SERIES OF 8	9'-8" TO 12'-3"
U414	1 SERIES OF 14	1'-5" TO 8'-5"
U418	2 SERIES OF 5	2'-3" TO 19'-8"
U820	1 SERIES OF 25	10'-9" TO 14'-10"
U521	1 SERIES OF 9	9'-8" TO 12'-4"
U422	1 SERIES OF 15	1'-5" TO 8'-5"
CLIND	E AND TAG EAGU	CEDIEC CEDEDATE

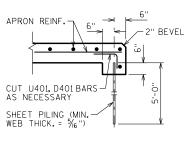
BUNDLE AND TAG EACH SERIES SEPERATELY



D812, D513, D820, D521

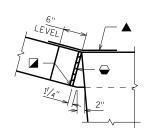


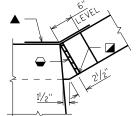
CUT-OFF WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



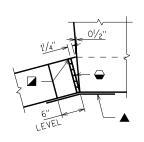


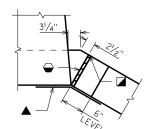
STATE PROJECT NUMBER

8200-00-70

CORNER 2



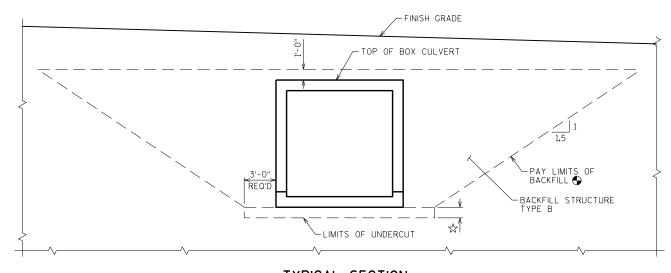




CORNER 1

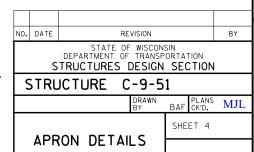
CORNER 4

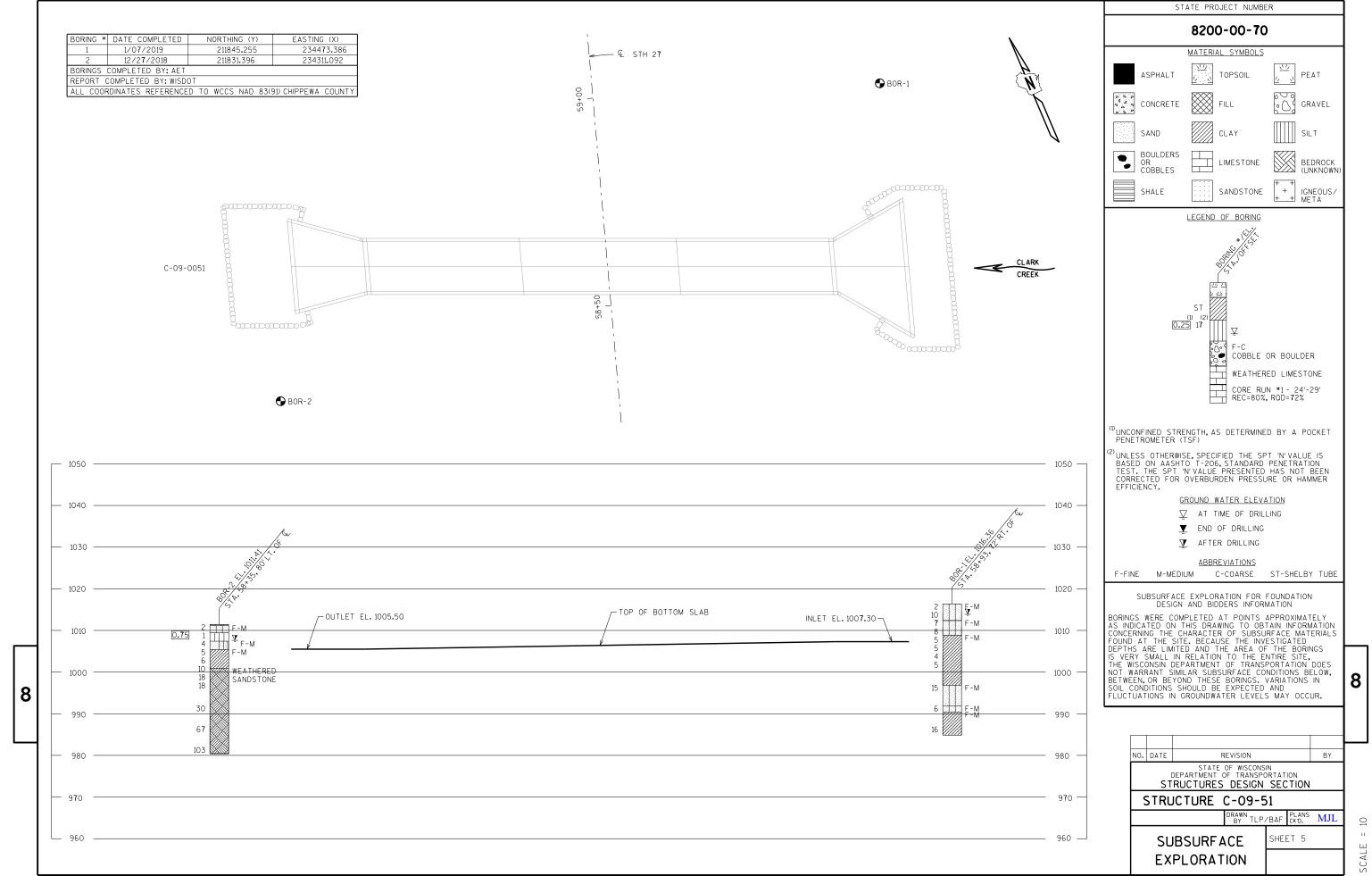
CORNER DETAILS



TYPICAL SECTION THRU BOX CULVERT

- ♠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- ☆ UNDERCUT 1'-O". EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".
- → 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.
- ☑ 1" BEVEL, TYP.
- ▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.





Seth Creek: STA. 12+09.30'A' - STA. 15+76.68'A'

		AREA (SF)		Incremental Vol	(CY) (Unadjusted)	Cumula		
STATION	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	Mass Ordinate Note 1
10+99'A'	0	0	0	0	0	0	0	0
12+09'A'	110	0	0	0	0	0	0	0
12+11'A'	2	0.3	7.4	0	0	0	0	0
12+20'A'	9	0.8	4.23	0	2	0	3	-3
12+20'A'	0	0.67	5.63	0	0	0	3	-3
12+50'A'	30	12.56	0	7	3	8	7	1
13+00'A'	50	23.46	1.23	33	1	41	8	33
13+50'A'	50	6.3	38.41	28	37	68	56	12
13+50'A'	0	10.43	51.98	0	0	68	56	12
13+75'A'	25	39.67	80.18	23	61	92	136	-44
14+00'A'	25	6.39	422.29	21	233	113	438	-325
14+25'A'	25	9.63	62.91	7	225	120	730	-610
14+50'A'	25	36	20.27	21	39	141	780	-639
14+50'A'	0	12.45	31.67	0	0	142	780	-639
15+00'A'	50	18.27	0	28	29	170	818	-648
15+50'A'	50	3.39	0.98	20	1	190	820	-630
15+50'A'	0	4.12	1.04	0	0	190	820	-630
15+50'A'	0	3.77	0	0	0	190	820	-630
15+75'A'	25	3.19	0	3	0	193	820	-626
15+77'A'	2	0	0	0	0	193	820	-626
15+81'A'	5	0	0	0	0	193	820	-626
		1		193	630			

NOTES: 1 - MASS ORDINATE = CUT - (FILL) X FILL FACTOR

9

COUNTY: CHIPPEWA PROJECT NO: 8200-00-70 HWY: STH 27 **EARTHWORK DATA SHEET** SHEET

FILE NAME : ...\0901_ew.ppt PLOT DATE : 7/30/2019 3:22 PM PLOT NAME: 0901_ew PLOT SCALE: 1.000000:1.000000 WISDOT / CADDS SHEET 42 Leman Creek: STA. 21+99.24'B' - STA. 25+62.38'B'

			AREA (SF)		(CY) (Unadjusted)	Cumula		
STATION	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	Mass Ordinate Note 1
21+96'B'	0	0	0	0	0	0	0	0
21+99'B'	3	2.73	0	0	0	0	0	0
22+00'B'	1	2.87	0	0	0	0	0	0
22+27'B'	27	8.65	0	6	0	6	0	6
22+27'B'	0	12.03	0.58	0	0	6	0	6
22+50'B'	23	16.77	0.02	12	0	18	0	18
23+00'B'	50	8.66	7.29	24	7	42	9	33
23+50'B'	50	7.66	189.81	15	182	57	246	-189
23+50'B'	0	17.14	194.3	0	1	57	248	-191
24+00'B'	50	23.86	524.1	38	664	95	1111	-1016
24+50'B'	50	31.15	245.69	51	713	146	2037	-1892
24+50'B'	0	14.17	265.31	0	1	146	2039	-1893
25+00'B'	50	9.96	16.46	22	260	168	2377	-2209
25+50'B'	50	12.92	0	21	15	189	2397	-2207
25+60'B'	10	6.34	0	4	0	193	2397	-2204
25+60'B'	0	3.65	0	0	0	193	2397	-2204
25+62'B'	2	2.99	0	0	0	193	2397	-2204
25+63'B'	1	0	0	0	0	193	2397	-2204
		1		193	1844			

NOTES: 1 - MASS ORDINATE = CUT - (FILL) X FILL FACTOR

9

COUNTY: CHIPPEWA PROJECT NO: 8200-00-70 HWY: STH 27 **EARTHWORK DATA SHEET** SHEET

FILE NAME : ...\0901_ew.ppt PLOT DATE : 7/30/2019 3:22 PM PLOT NAME: 0901_ew PLOT SCALE: 1.000000:1.000000 WISDOT / CADDS SHEET 42 Unnamed Tributary - Sta. 45+50.14'C' to Sta. 50+16.88'C'

		ARE <i>l</i>	A (SF)	Incremental Vol	(CY) (Unadjusted)	Cumulative Vol (CY)		
STATION	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	Mass Ordinate Note 1
45+48'C'	0	0	0	0	0	0	0	1 101 C 1
45+50'C'	2	53.76	0	2	0	2	0	2
45+50 C 45+52'C'	2	53.76	0	1	0	6	0	6
45+72'C'	20	53.9 52	0	40	0	46	0	46
45+72 C 45+73'C'	1	51.8	0	1	0	47	0	47
45+92'C'	19	38.96	0	32	0	79	0	79
45+98'C'	6	31.23	0	7	0	86	0	86
	2		0	2	0	89	0	89
46+00'C' 46+17'C'	17	25.72	1	10	0	98	0	98
	0	5.2	I 10.1E	0	0	99	0	
46+17'C'	5	25.7	18.15	5	4	103	5	98
46+23'C'		21.9	21.44		4 E1	123	ວ 71	98 52
46+50'C'	27 33	17.63	78.78	20 21	51 120	144		52 -107
46+83'C'		16.85	148.59		139		252	
47+00'C'	17	16.53	172.88	11	102	155	384	-229
47+19'C'	19	16.82	173.29	11	119	166	538	-372
47+19'C'	0	37.39	154.71	0	1	166	539	-373
47+50'C'	31	39.87	216.37	45 27	215	211	819	-608
47+68'C'	18	38.21	271.68	27	166	238	1036	-798 1072
48+00'C'	32	36.56	146.68	44	245	282	1354	-1072
48+18'C'	18	36.94	134.75	25	95	306	1478	-1171
48+18'C'	0	18.38	144.34	0	1	307	1478	-1172
48+28'C'	9	17.62	144.18	6	49	313	1543	-1230
48+29'C'	1	17.57	137.5	1	6	314	1551	-1237
48+50'C'	21	19.06	134.88	14	107	328	1690	-1362
48+54'C'	4	19.89	128.85	3	20	331	1715	-1385
48+76'C'	22	23.77	73.77	17	81	348	1820	-1472
48+76'C'	0	15.36	69.48	0	0	348	1821	-1472
49+00'C'	24	15.87	19.55	14	40	362	1873	-1510
49+24'C'	24	16.49	0.53	14	9	377	1884	-1508
49+50'C'	26	16.04	0.06	16	0	392	1885	-1492
49+61'C'	11	15.89	0	7	0	399	1885	-1486
49+86'C'	25	15.51	0.05	15	0	413	1885	-1471
50+00'C'	14	28.13	0	11	0	425	1885	-1460
50+11'C'	111	40.42	0	87	12	449	1888	-1439
50+17'C'	6	24.87	0	7	0	457	1888	-1432
50+18'C'	1	0	0	1	0	457	1888	-1431
	ı			520	1462			

NOTES: 1 - MASS ORDINATE = CUT - (FILL) X FILL FACTOR

PROJECT NO: 8200-00-70 HWY: STH 27 COUNTY: CHIPPEWA EARTHWORK DATA SHEET SHEET

FILE NAME : ...\0901_ew.ppt PLOT DATE : 7/30/2019 3:22 PM PLOT NAME: 0901_ew PLOT SCALE: 1.000000:1.000000 WISDOT / CADDS SHEET 42

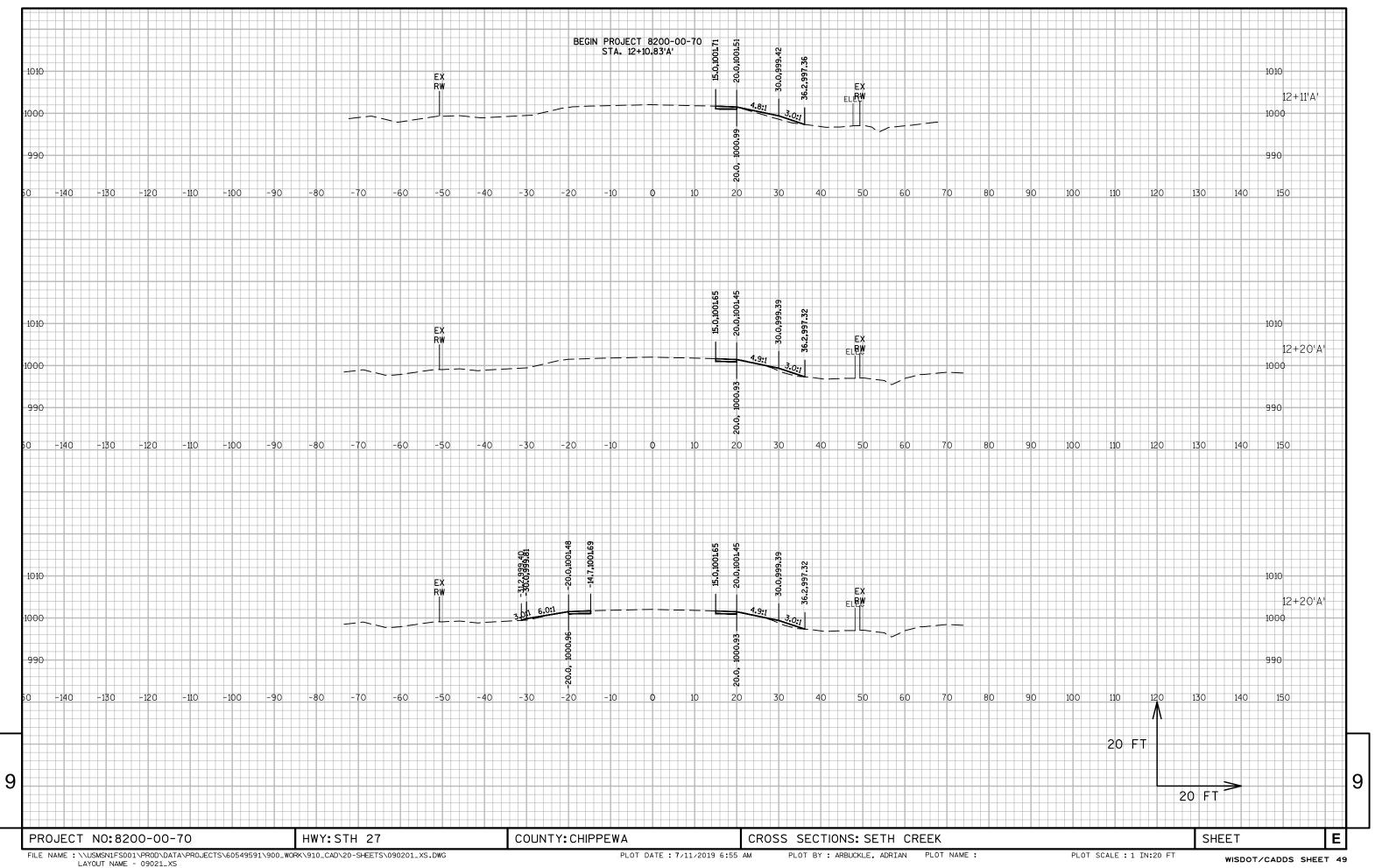
Clark Creek: Sta. 56+11.40'C' to Sta. 61+65.20'C'

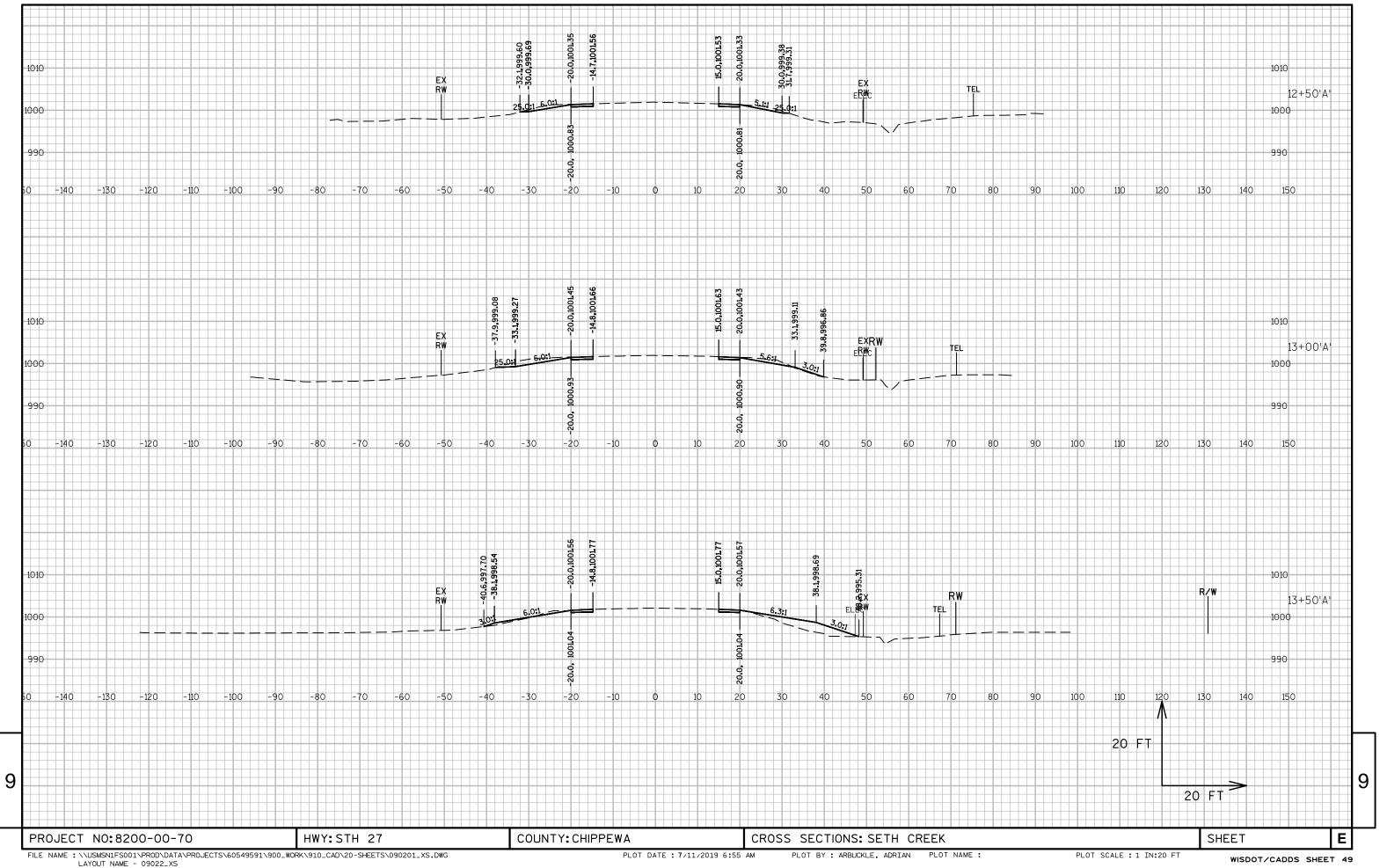
		AREA	(SF)	Incremental Vol	(CY) (Unadjusted)	d) Cumulative Vol (CY)		
STATION	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	Mass Ordinate
o minor.	Biotario							Note 1
5609.769	0	0	0	0	0	0	0	0
5611.399	2	18.28	0	1	0	1	0	1
5650	39	59.45	0	56	0	56	0	56
5700	50	33.97	0	87	0	143	0	143
5724.927	25	14.24	0	22	0	165	0	165
5750	25	10.9	1.59	12	1	177	1	176
5757.68	8	9.82	19.91	3	3	179	5	175
5757.784	0	34.81	0.82	0	0	180	5	175
5764.651	7	37.51	10.89	9	1	189	7	182
5789.67	25	17.51	116.1	25	59	214	83	131
5800	10	15.39	82.81	6	38	221	133	88
5807.19	7	14.75	94.09	4	24	225	163	61
5807.293	0	57.94	69.92	0	0	225	164	61
5814.688	7	36.94	78.34	13	20	238	190	47
5850	35	29.43	185.84	43	173	281	415	-134
5860	10	33.1	269.99	12	84	293	525	-232
5900	40	34.92	145.62	50	308	343	925	-582
5917.232	17	33.94	149.35	22	94	365	1047	-682
5917.331	0	11.57	137.8	0	1	365	1048	-683
5937.331	20	11.28	142.49	8	104	374	1183	-809
5950	13	11	154.64	5	70	379	1273	-895
6000	50	11.55	110.81	21	246	400	1593	-1193
6006.157	6	11.33	111.43	3	25	402	1626	-1224
6030.91	25	11.22	96.96	10	96	413	1750	-1337
6050	19	20.39	67.62	11	58	424	1826	-1402
6057.357	7	25.35	66.91	6	18	430	1850	-1420
6057.46	0	7.17	63.36	0	0	430	1850	-1420
6095.933	38	7.73	0	11	45	441	1909	-1468
6100	4	8.54	0	1	0	442	1909	-1467
6103.839	4	8.78	0	1	0	443	1909	-1465
6121.18	17	8.38	2.74	6	1	449	1910	-1461
6146.475	25	8.02	3.78	8	3	456	1914	-1457
6150	4	8.44	38.3	1	3	457	1917	-1460
6165.203	69	8.75	9.89	21	20	462	1935	-1472
6166.913	2	0	0	0	0	462	1935	-1473
				479	1495			

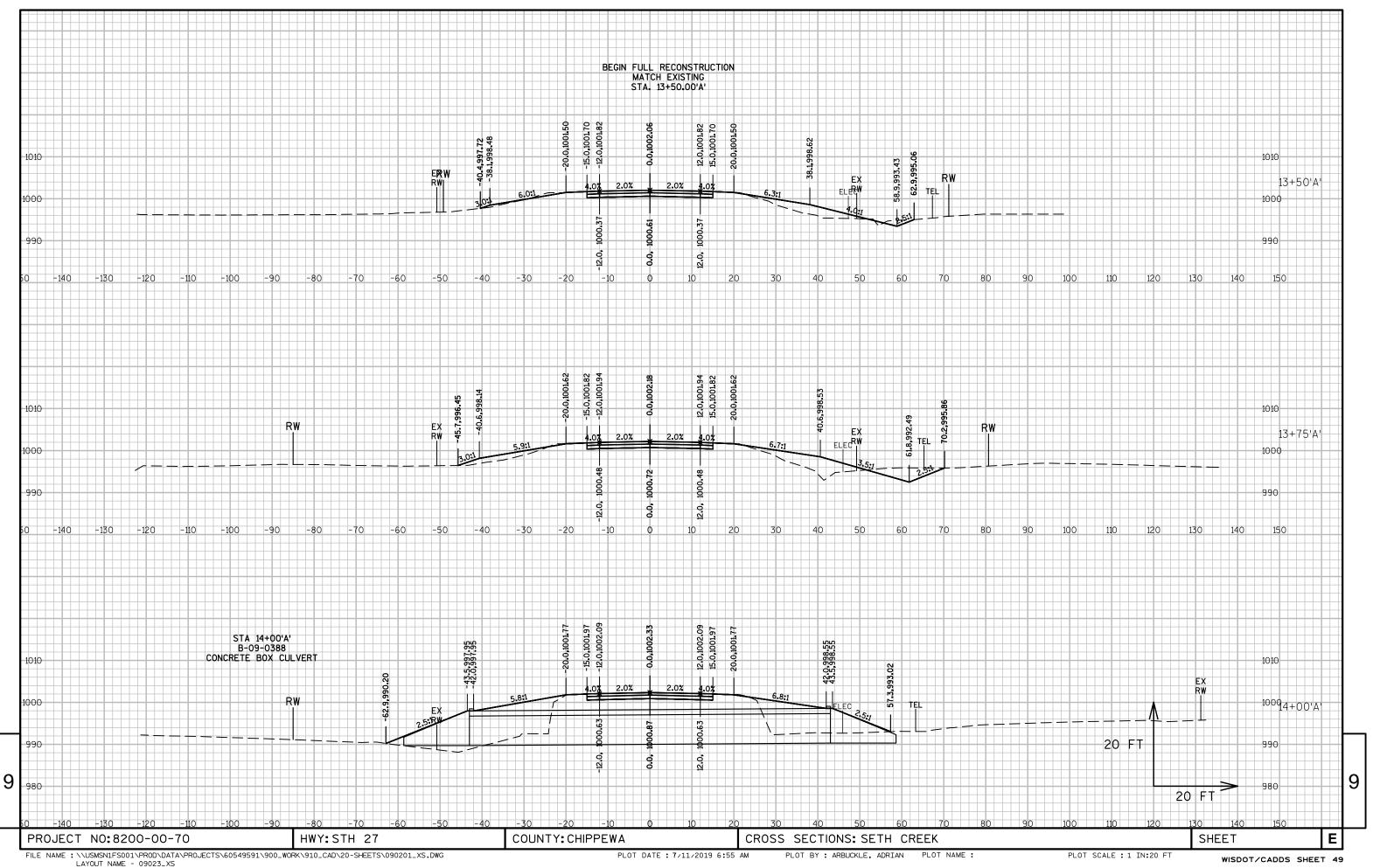
COUNTY: CHIPPEWA PROJECT NO: 8200-00-70 HWY: STH 27 **EARTHWORK DATA SHEET** SHEET

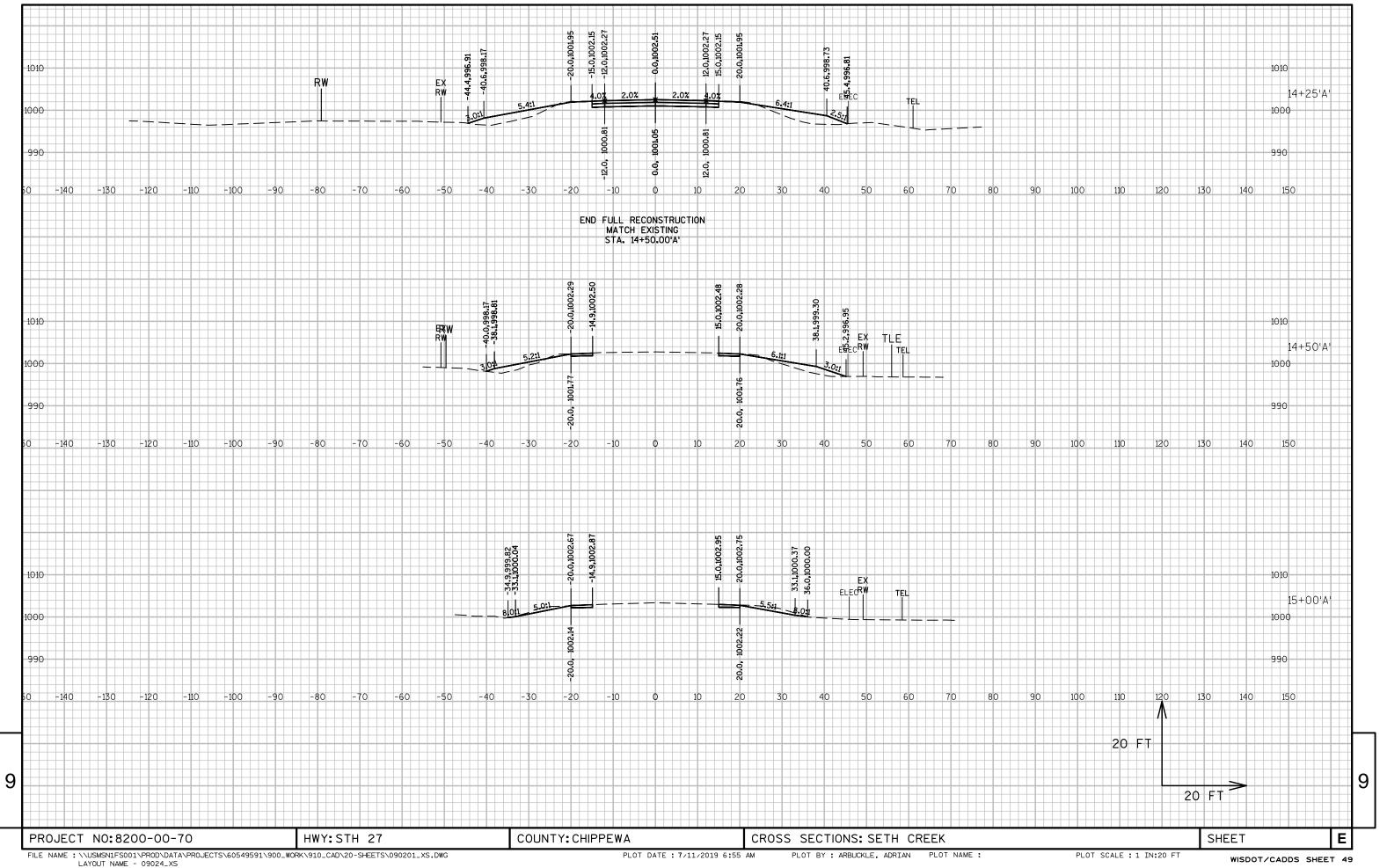
FILE NAME : ...\0901_ew.ppt PLOT DATE : 7/30/2019 3:22 PM PLOT NAME: 0901_ew PLOT SCALE: 1.000000:1.000000 WISDOT / CADDS SHEET 42

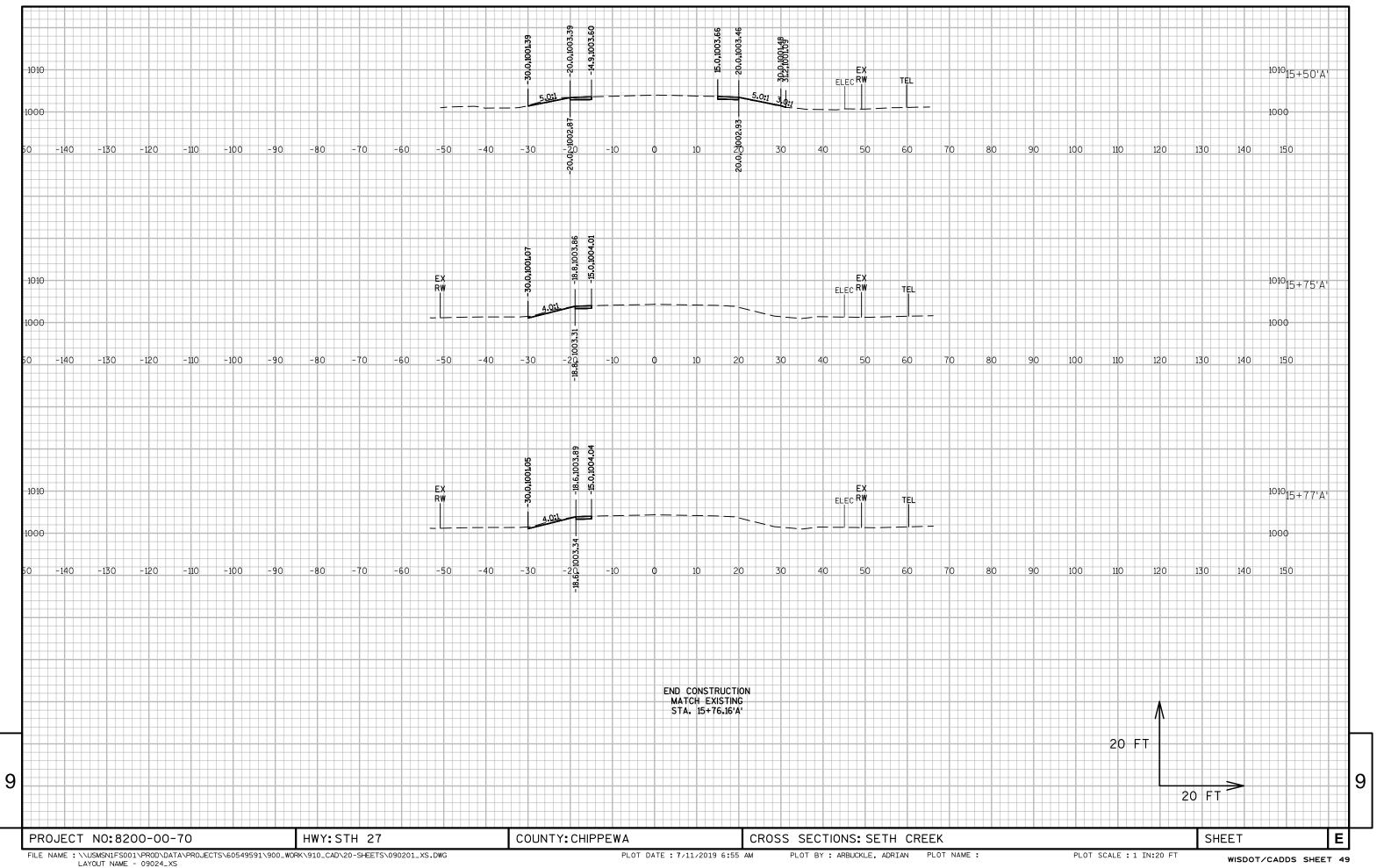
^{1 -} MASS ORDINATE = CUT - (FILL) X FILL FACTOR

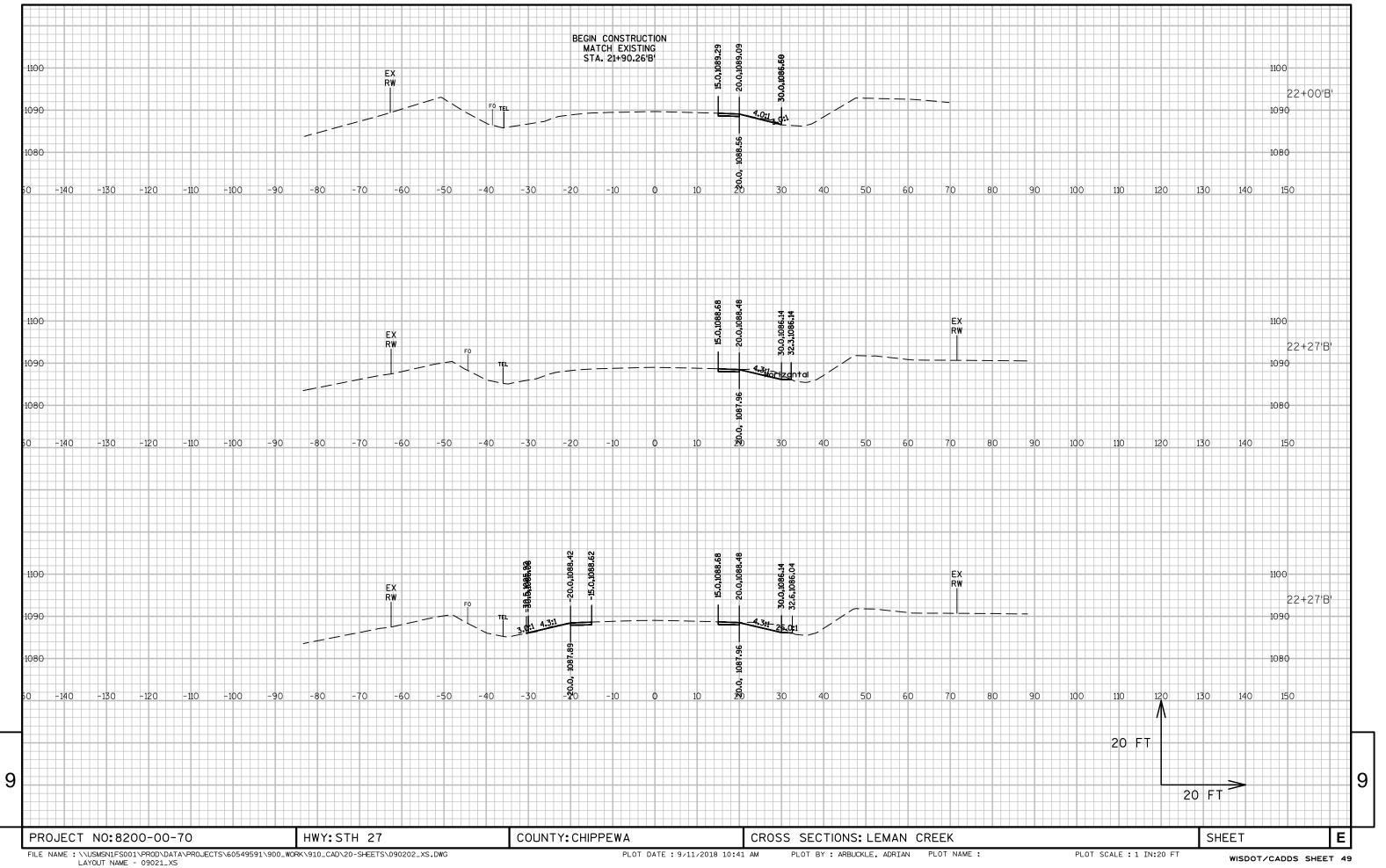


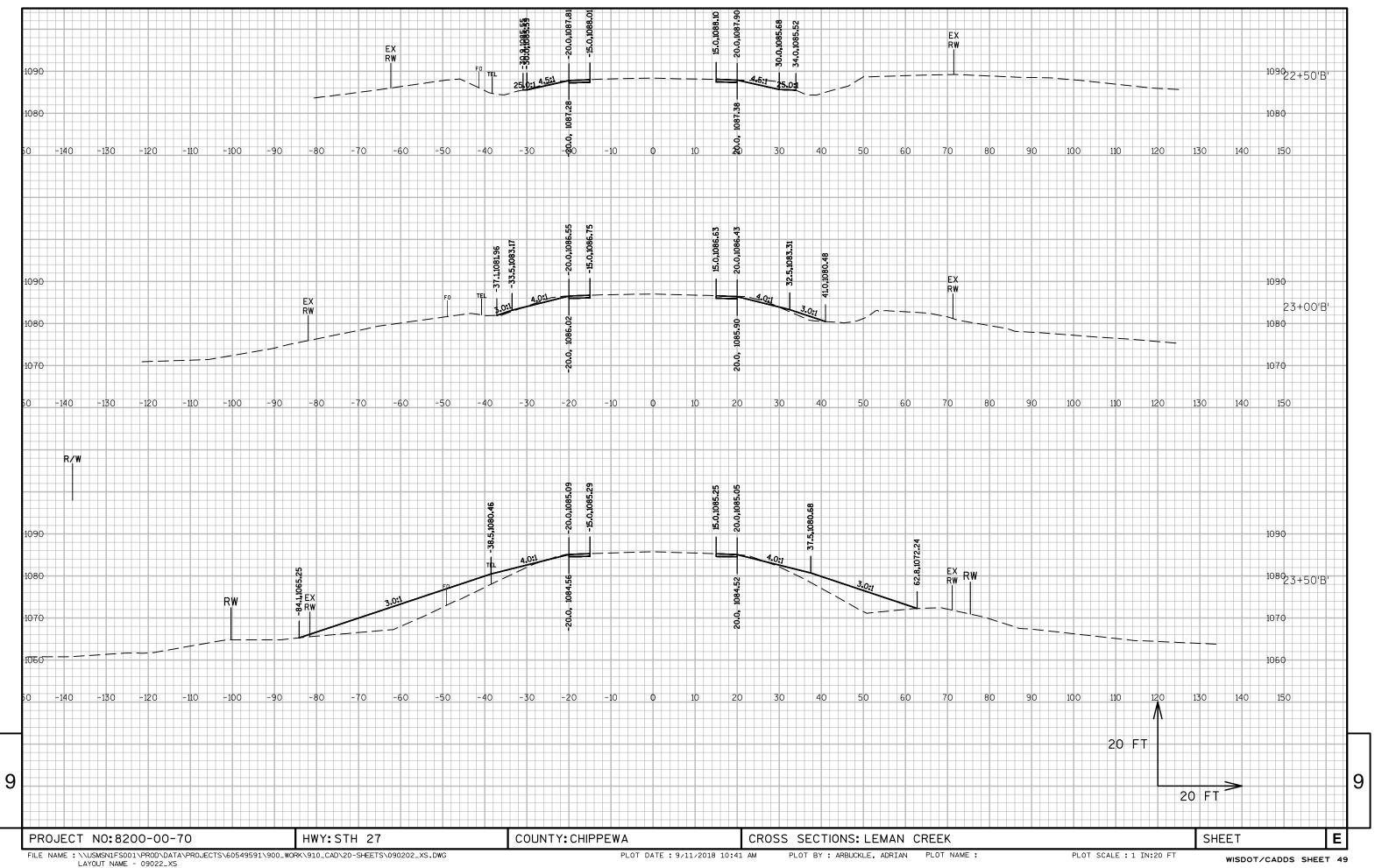


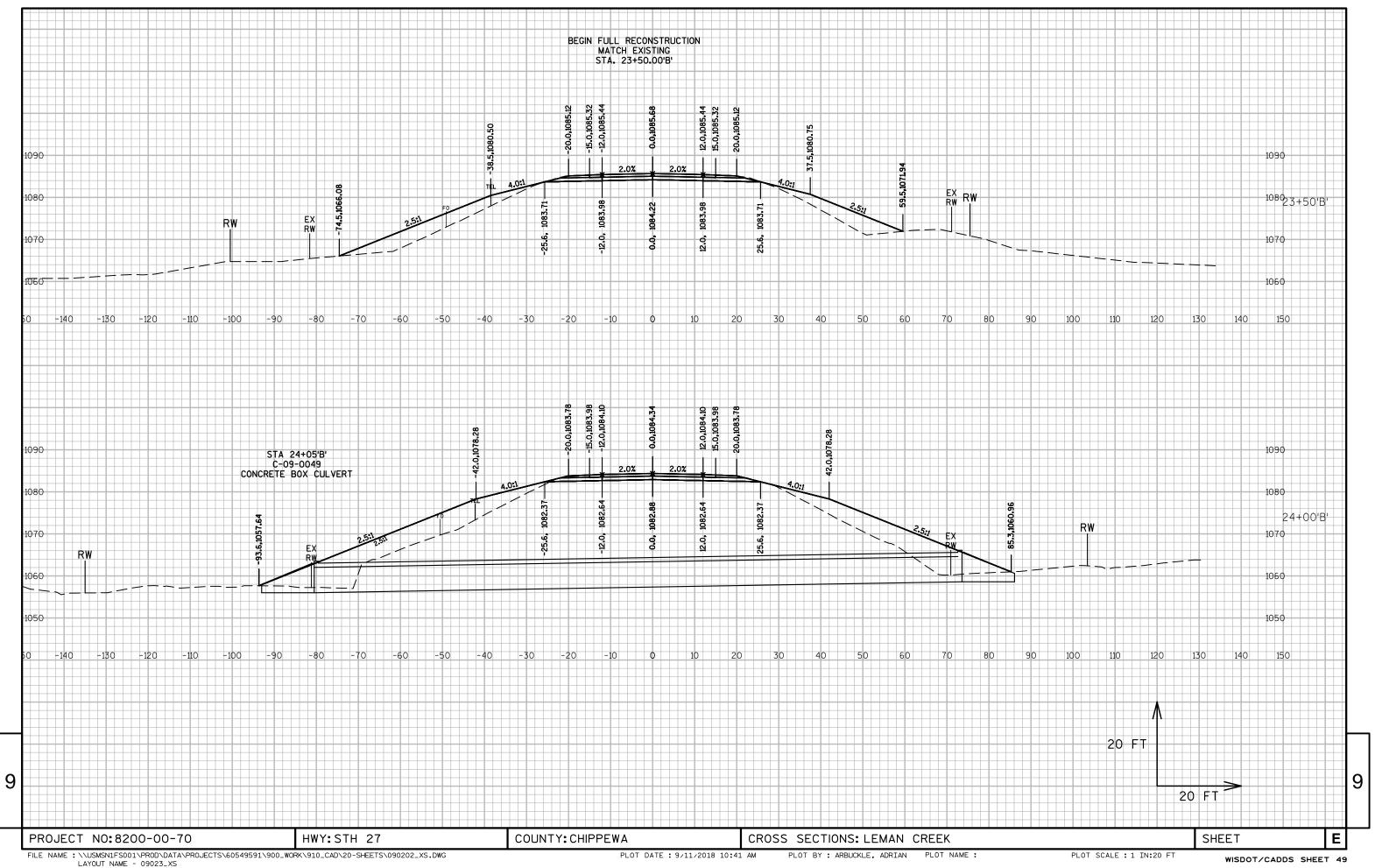


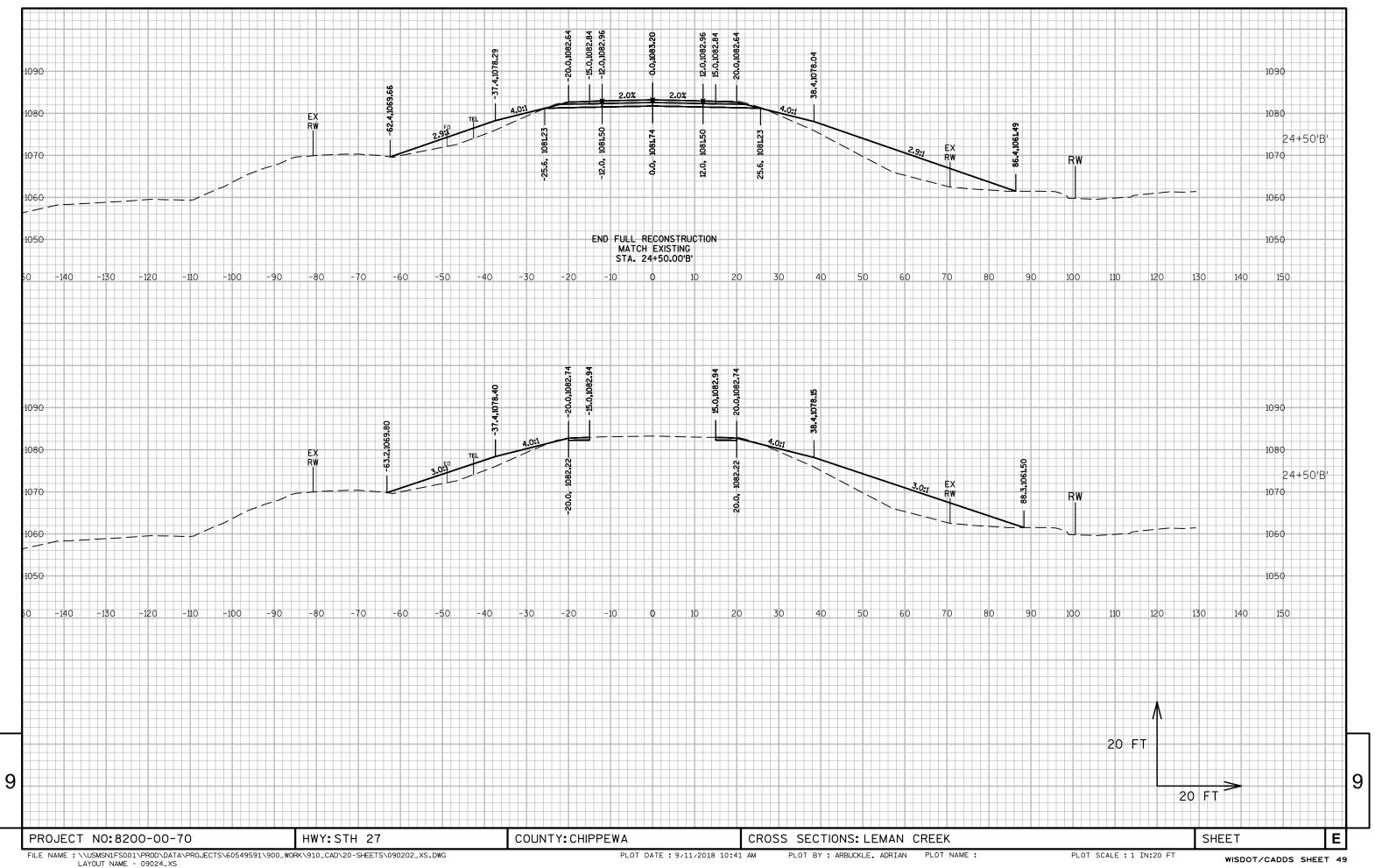


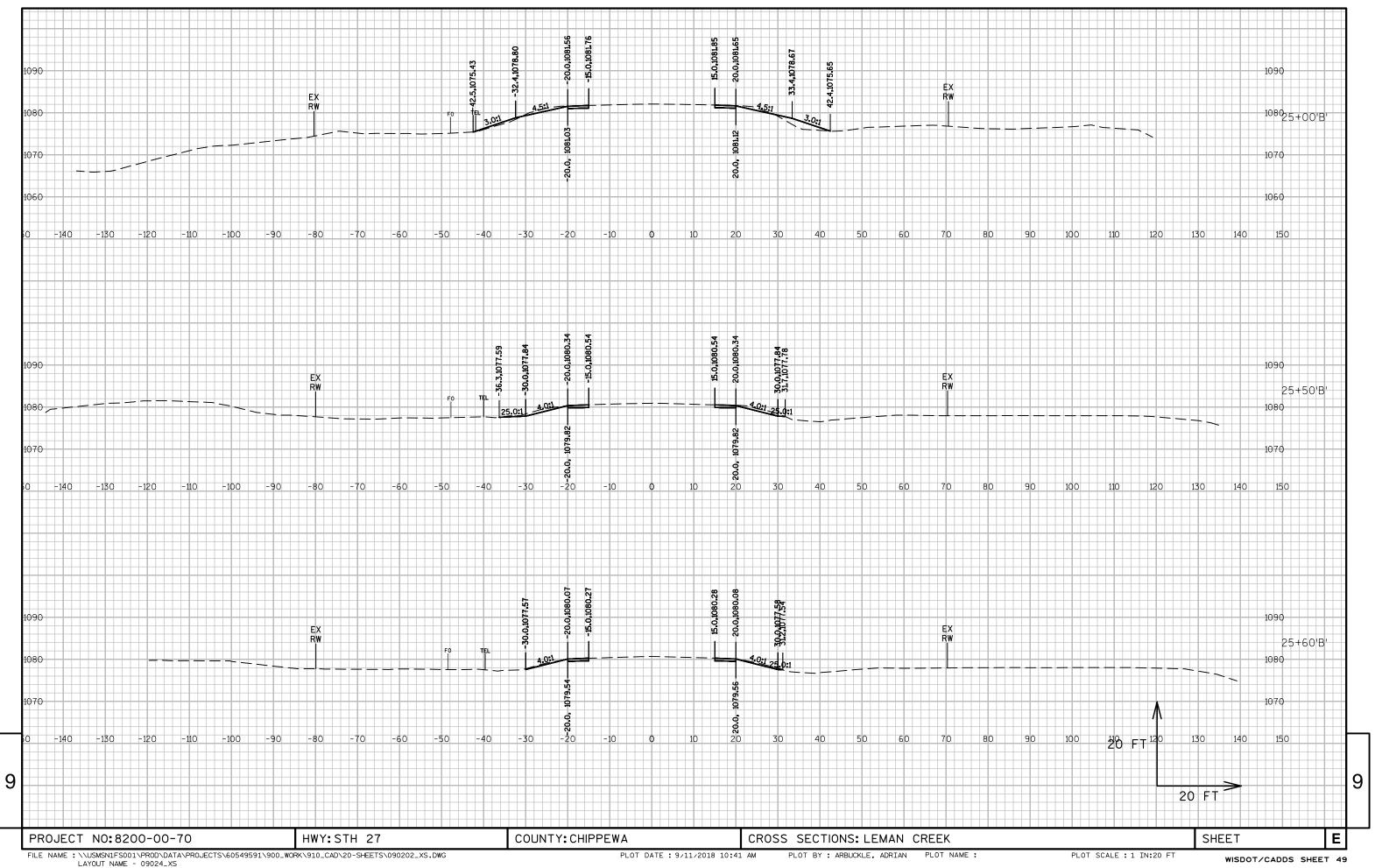


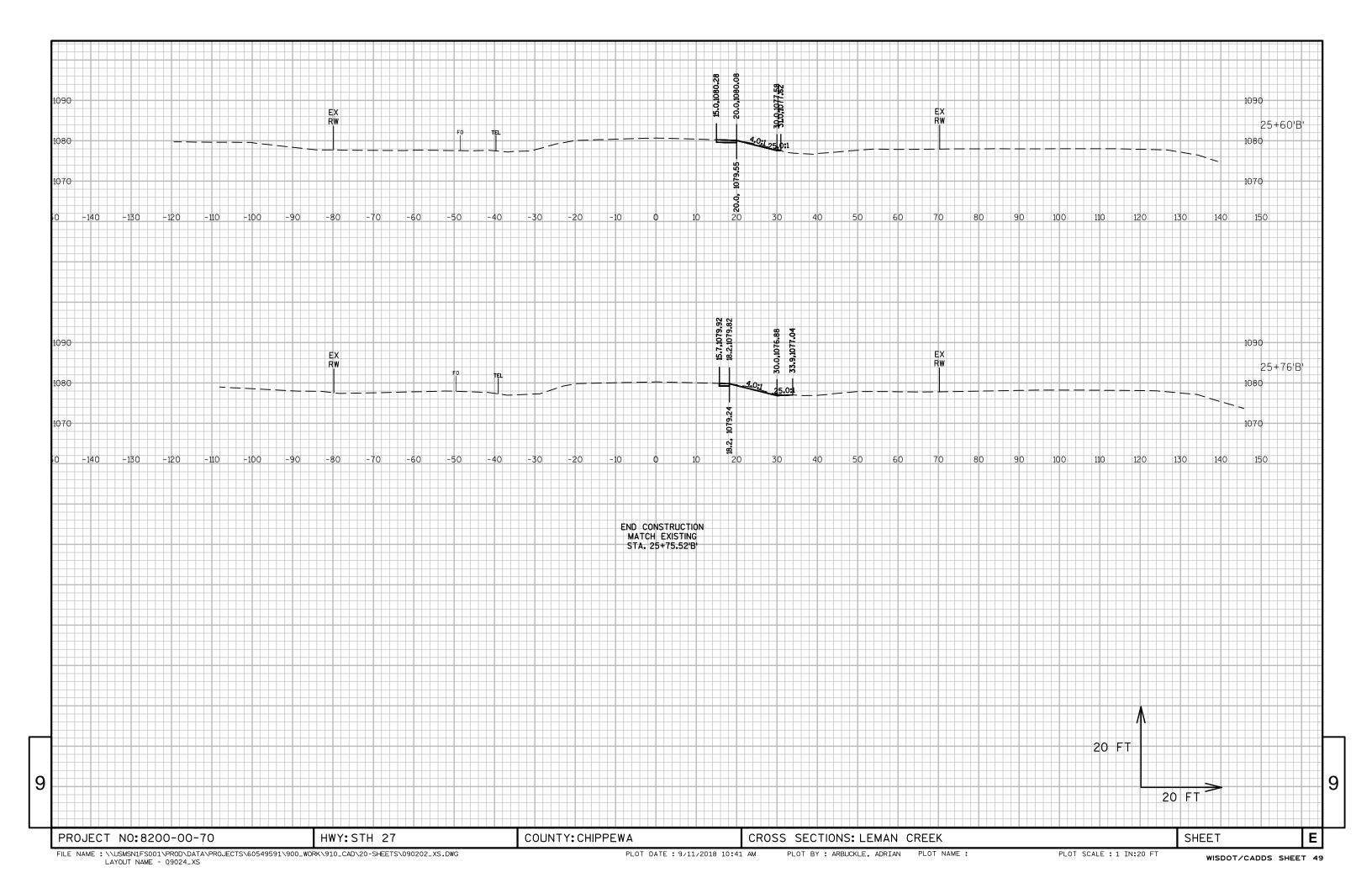


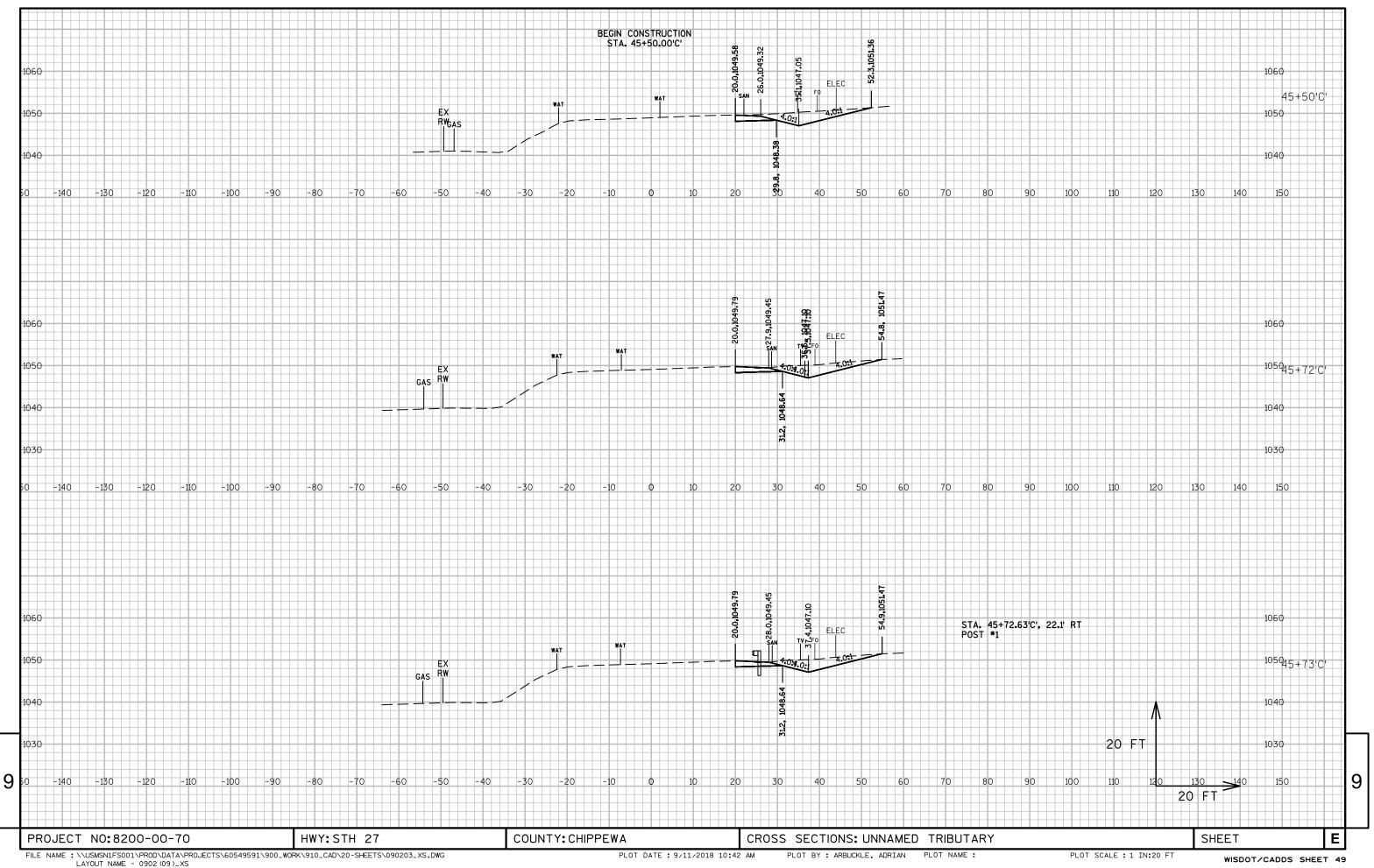


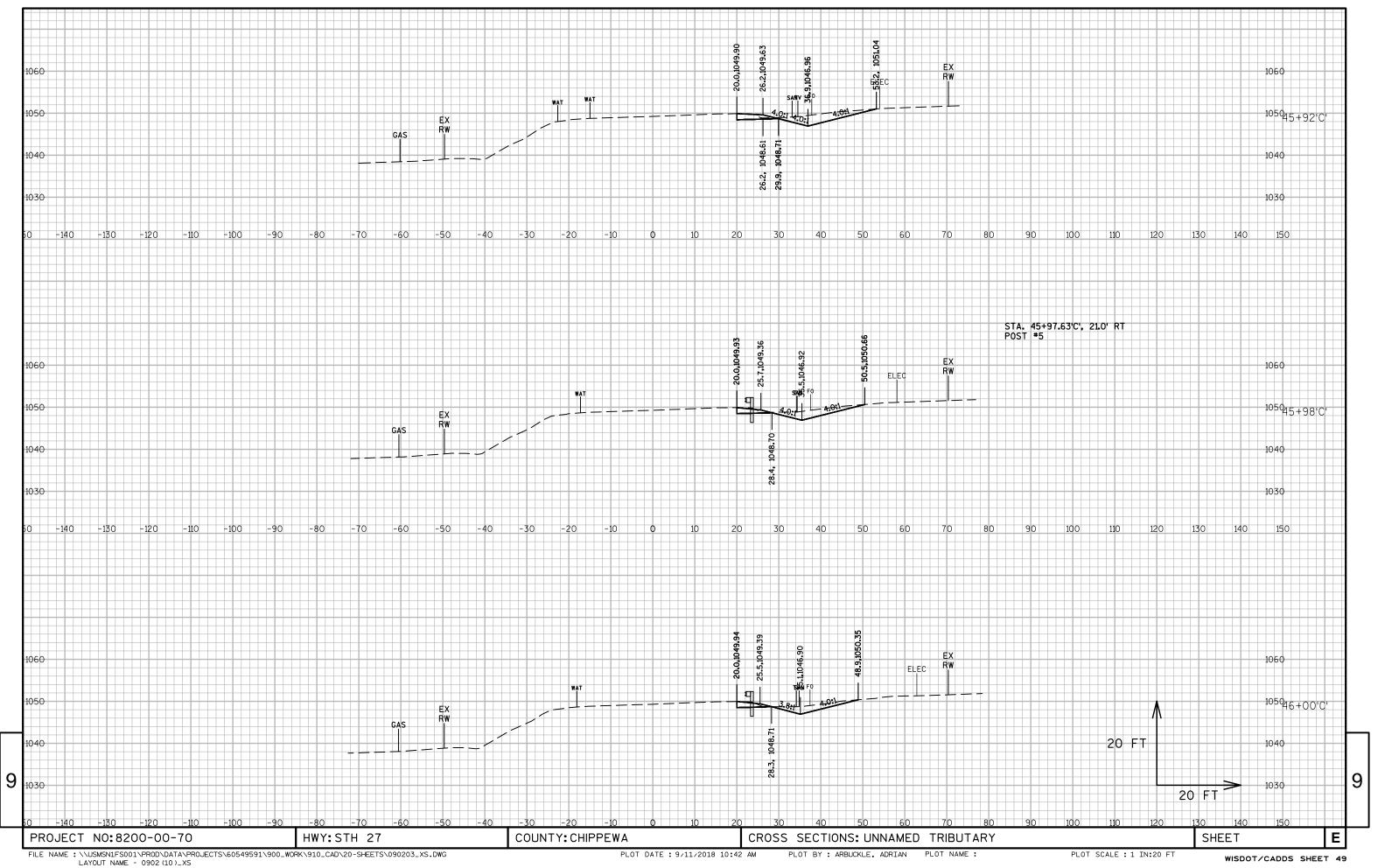


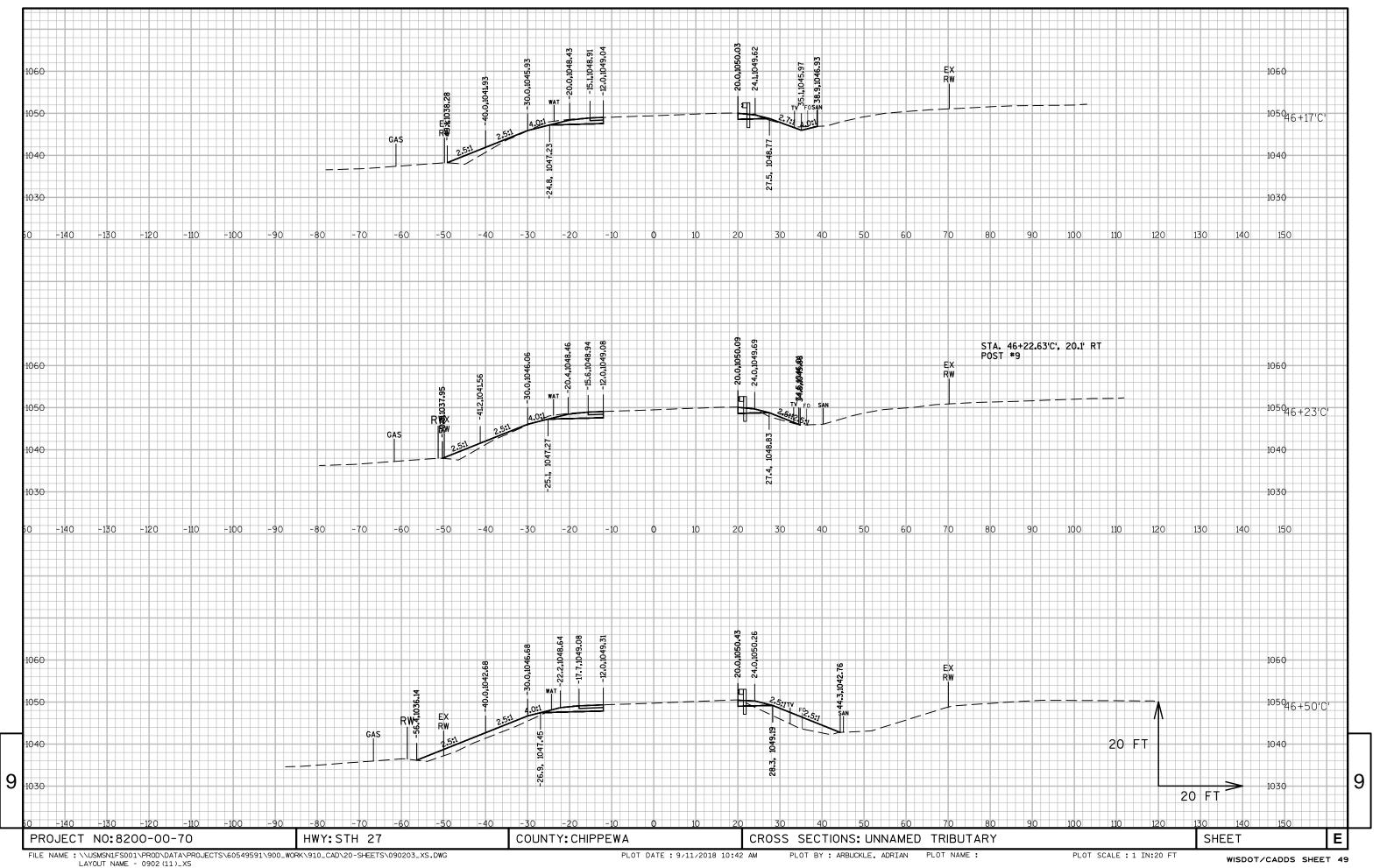


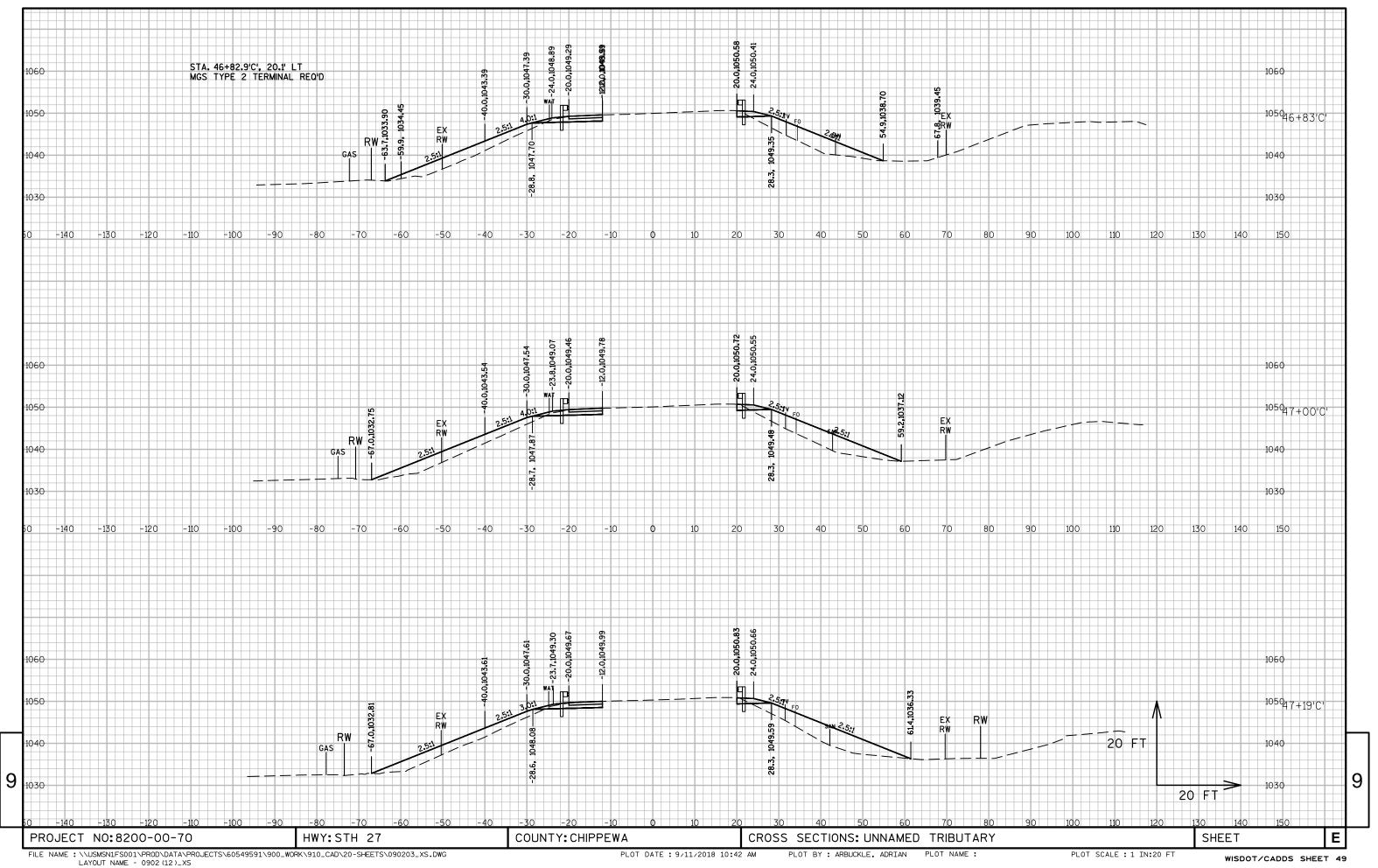


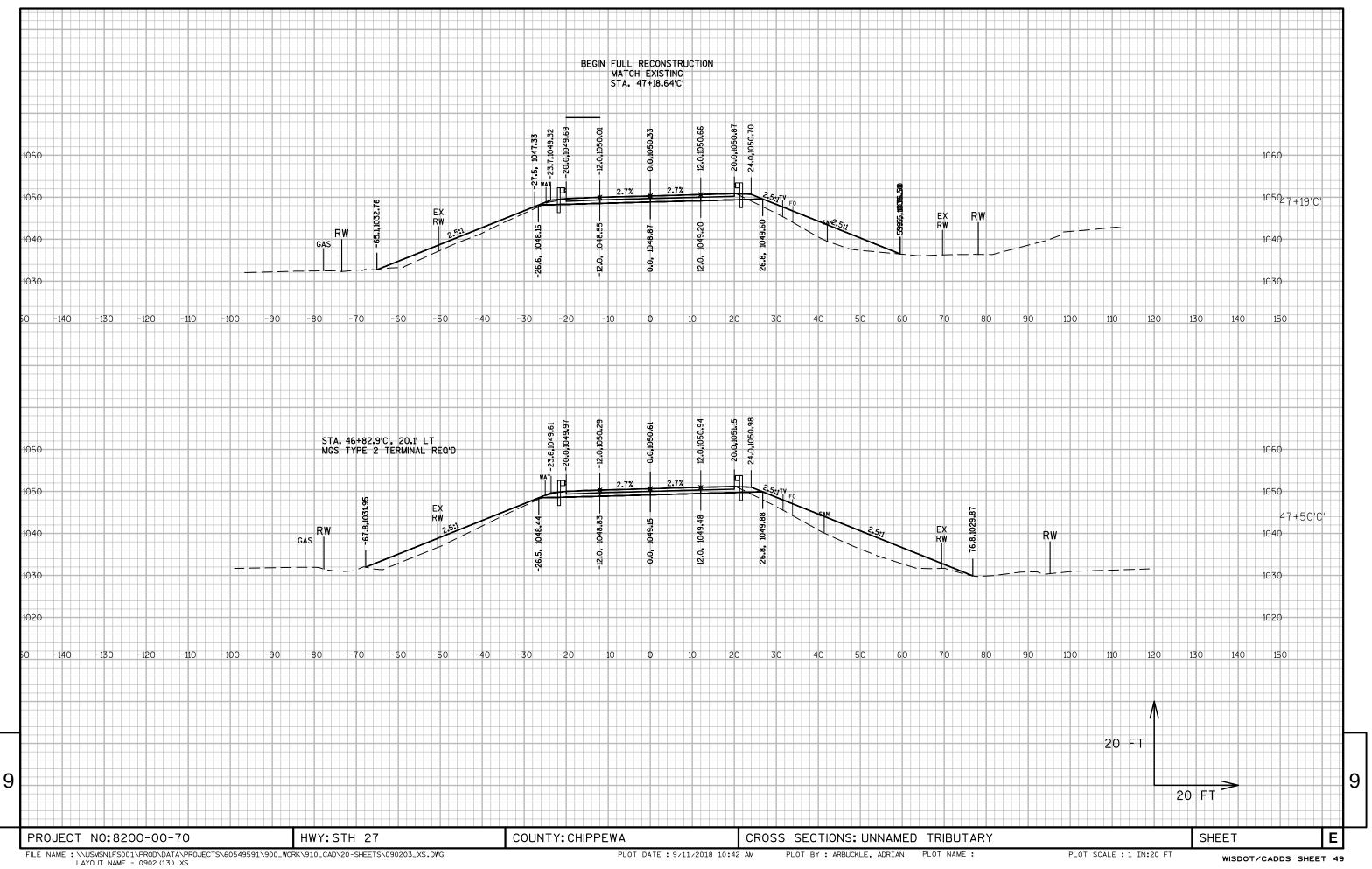


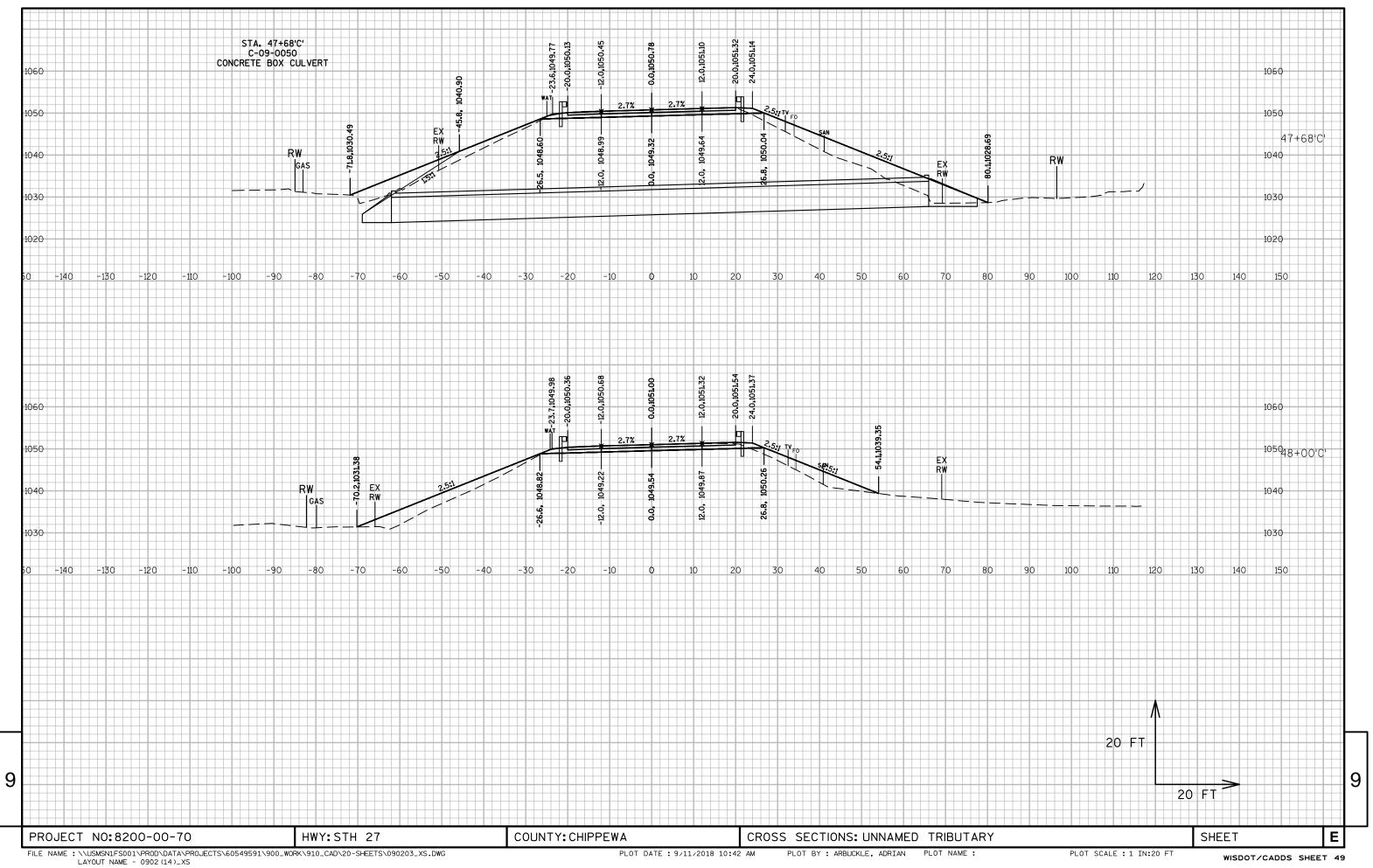


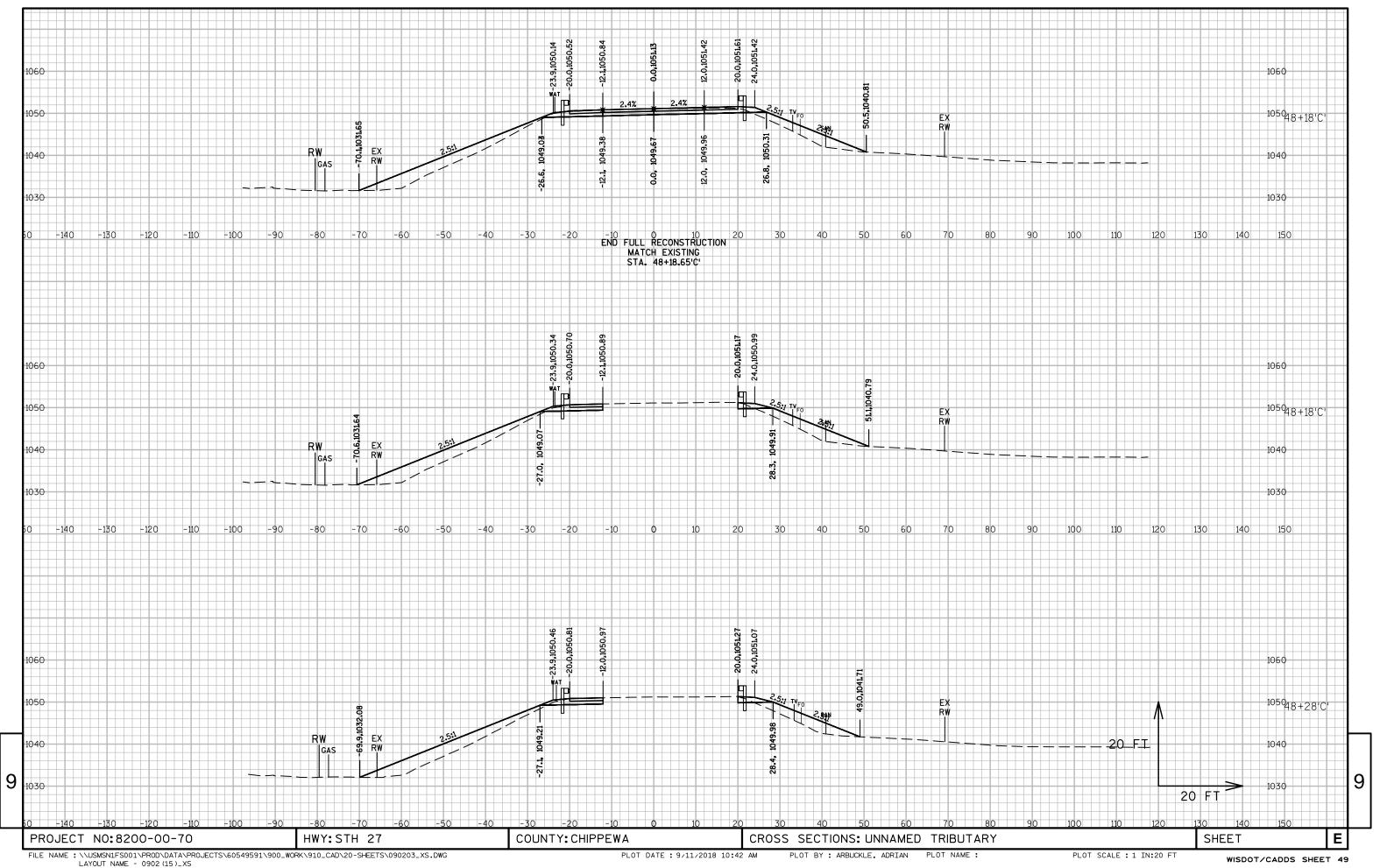


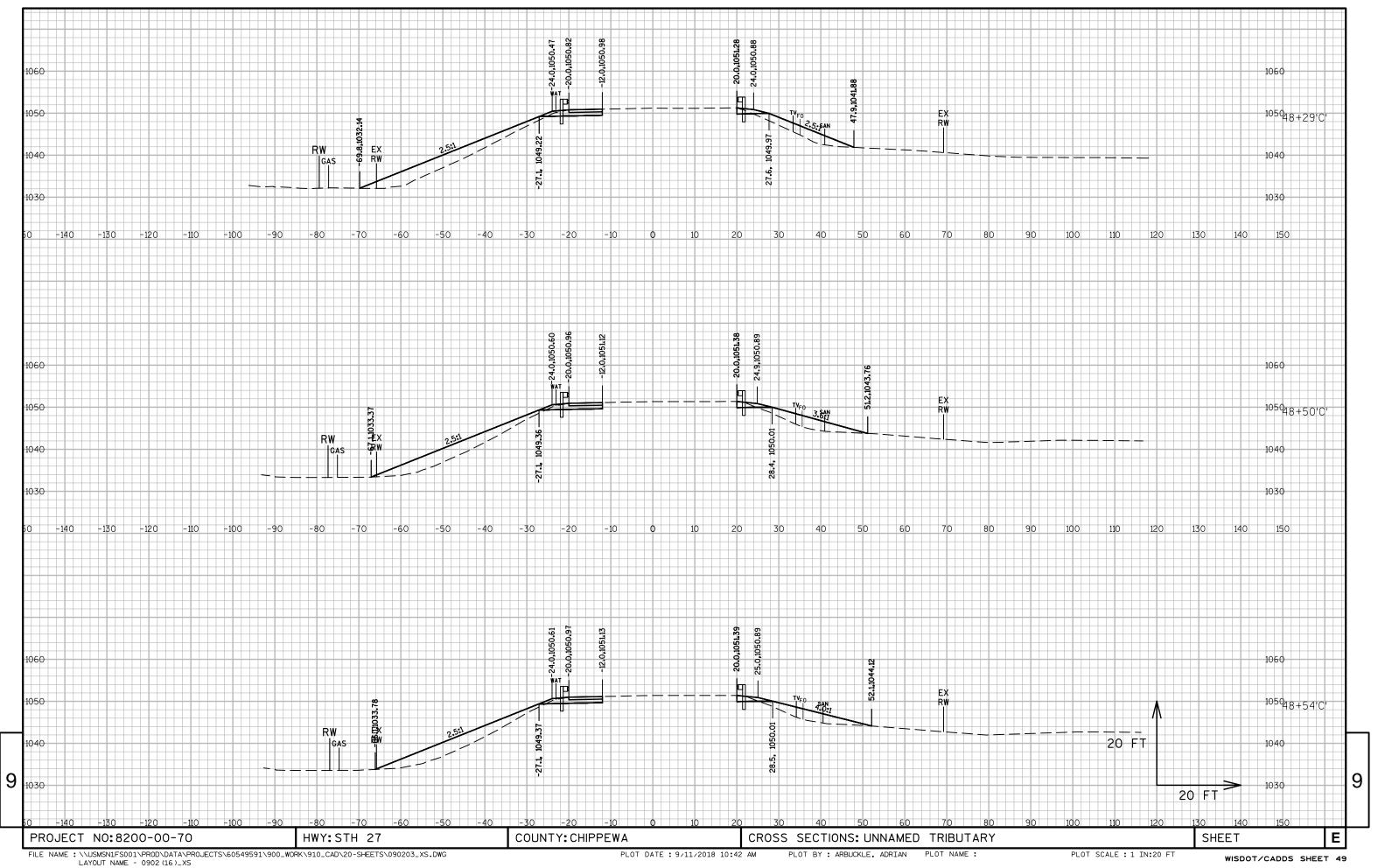


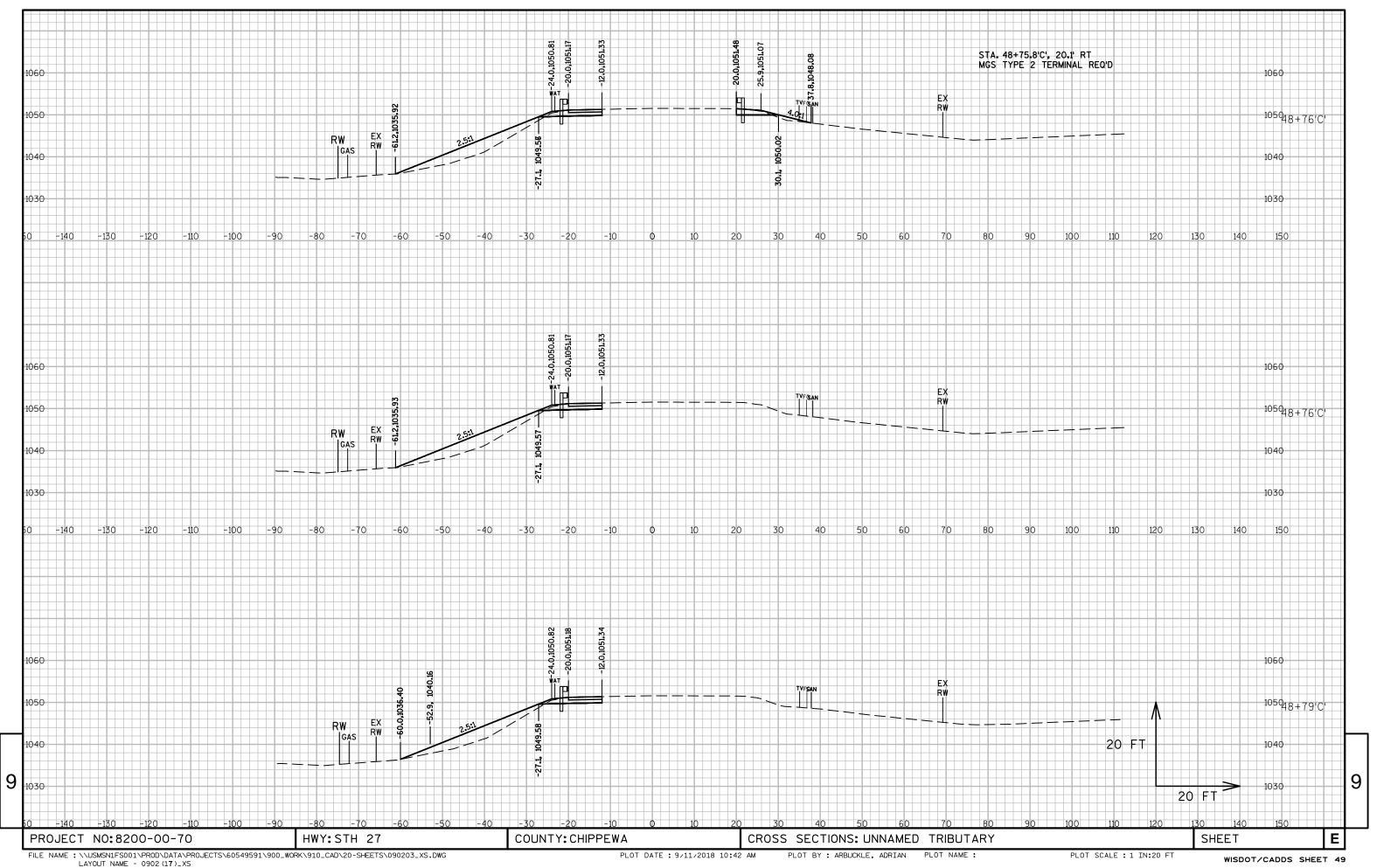


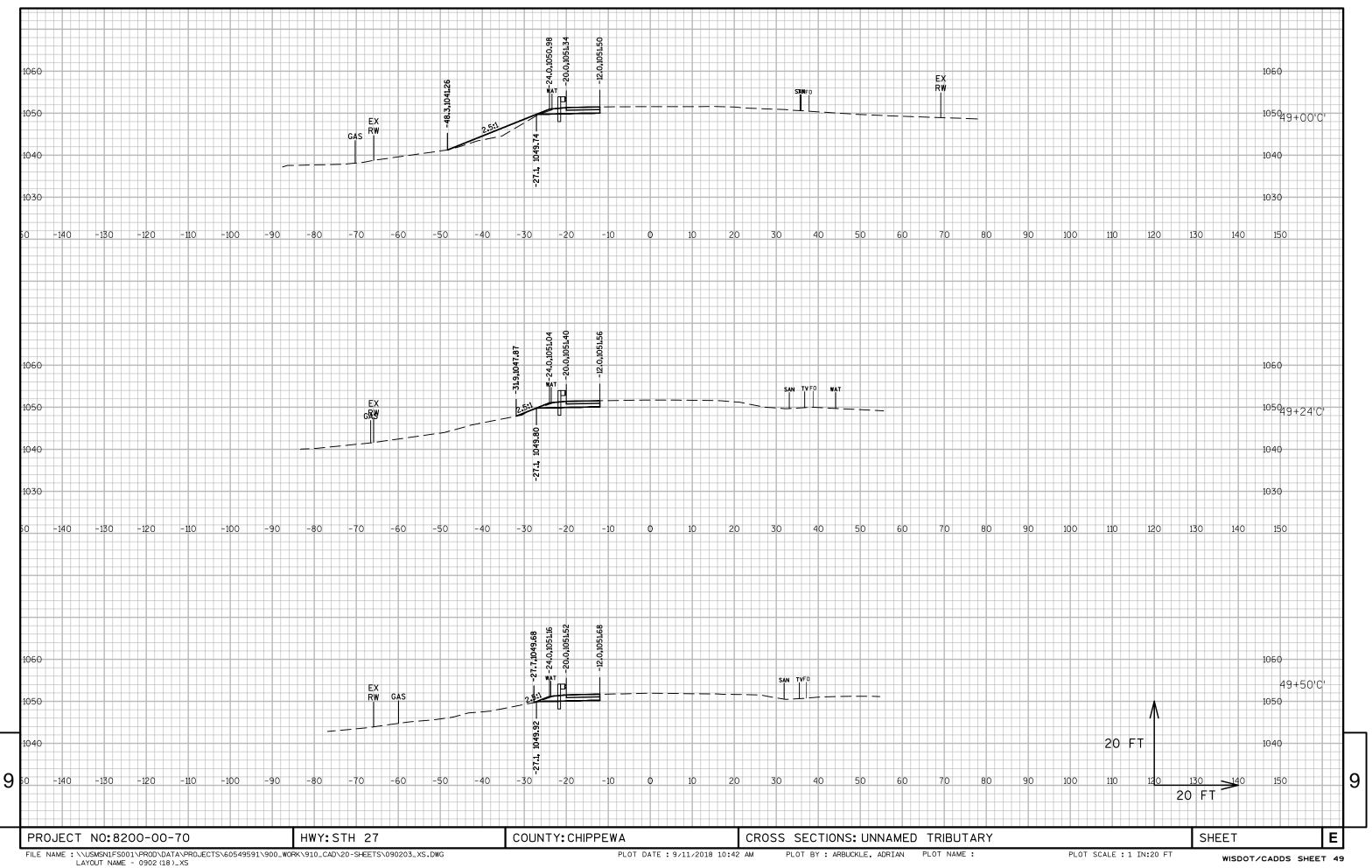


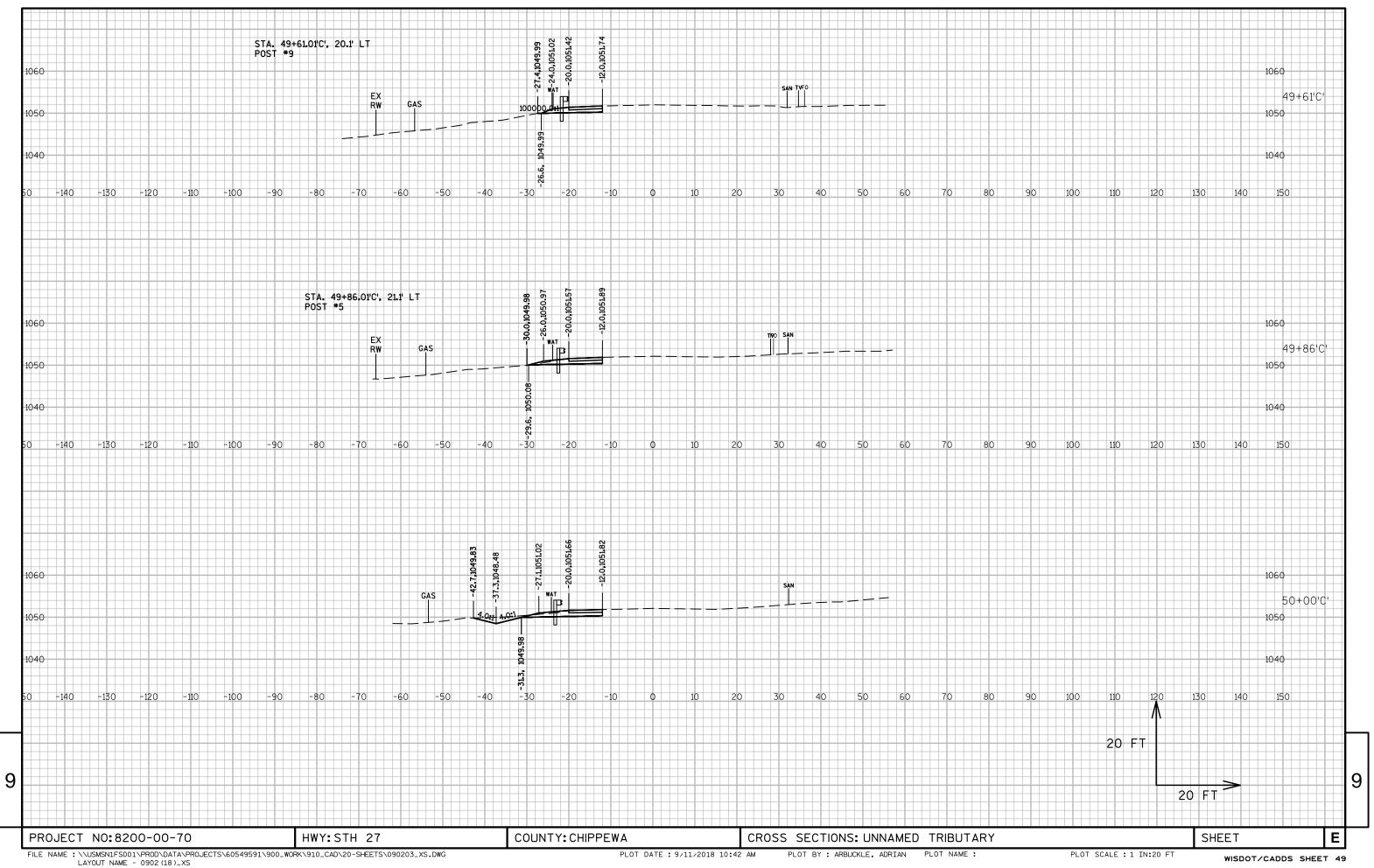


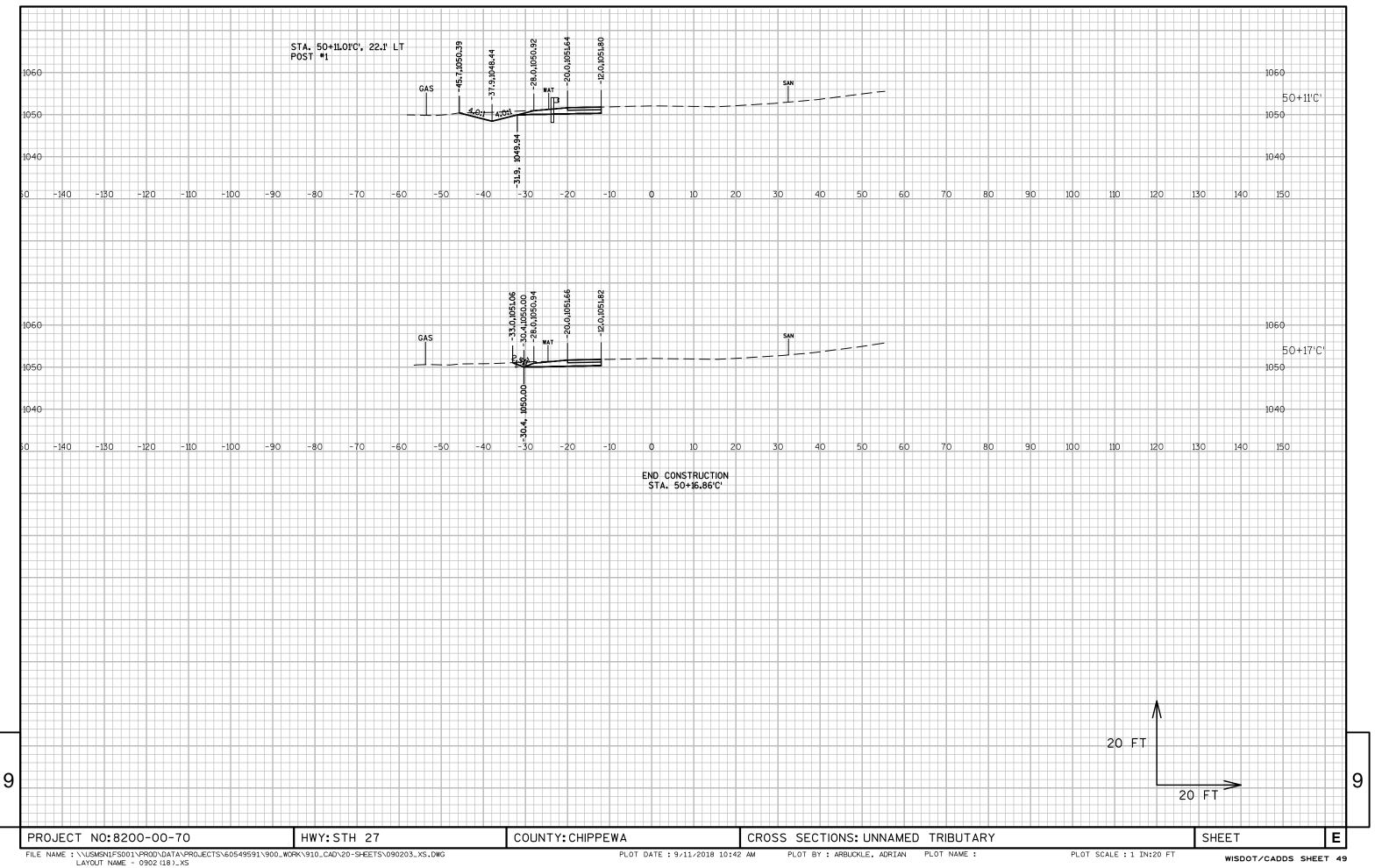


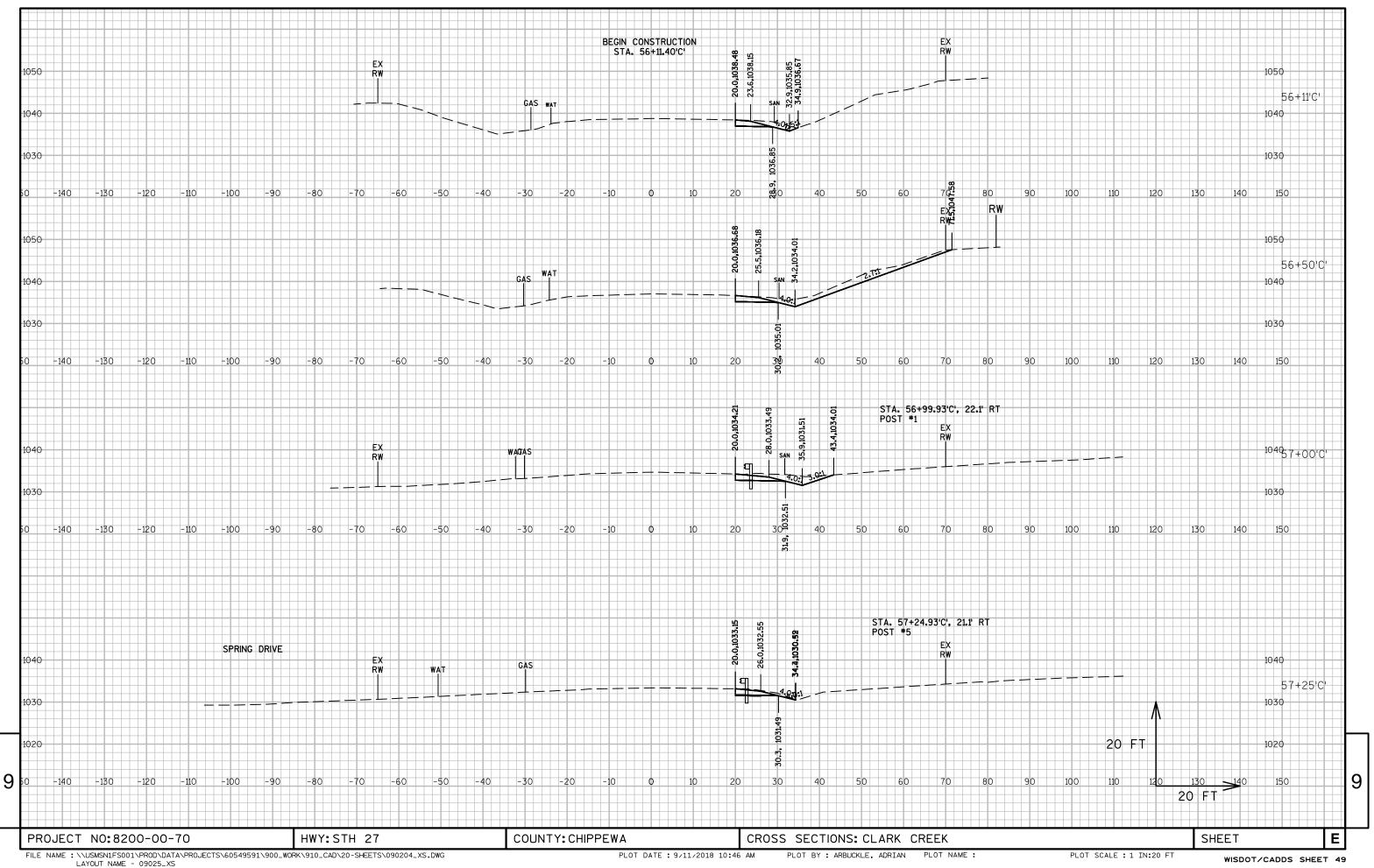


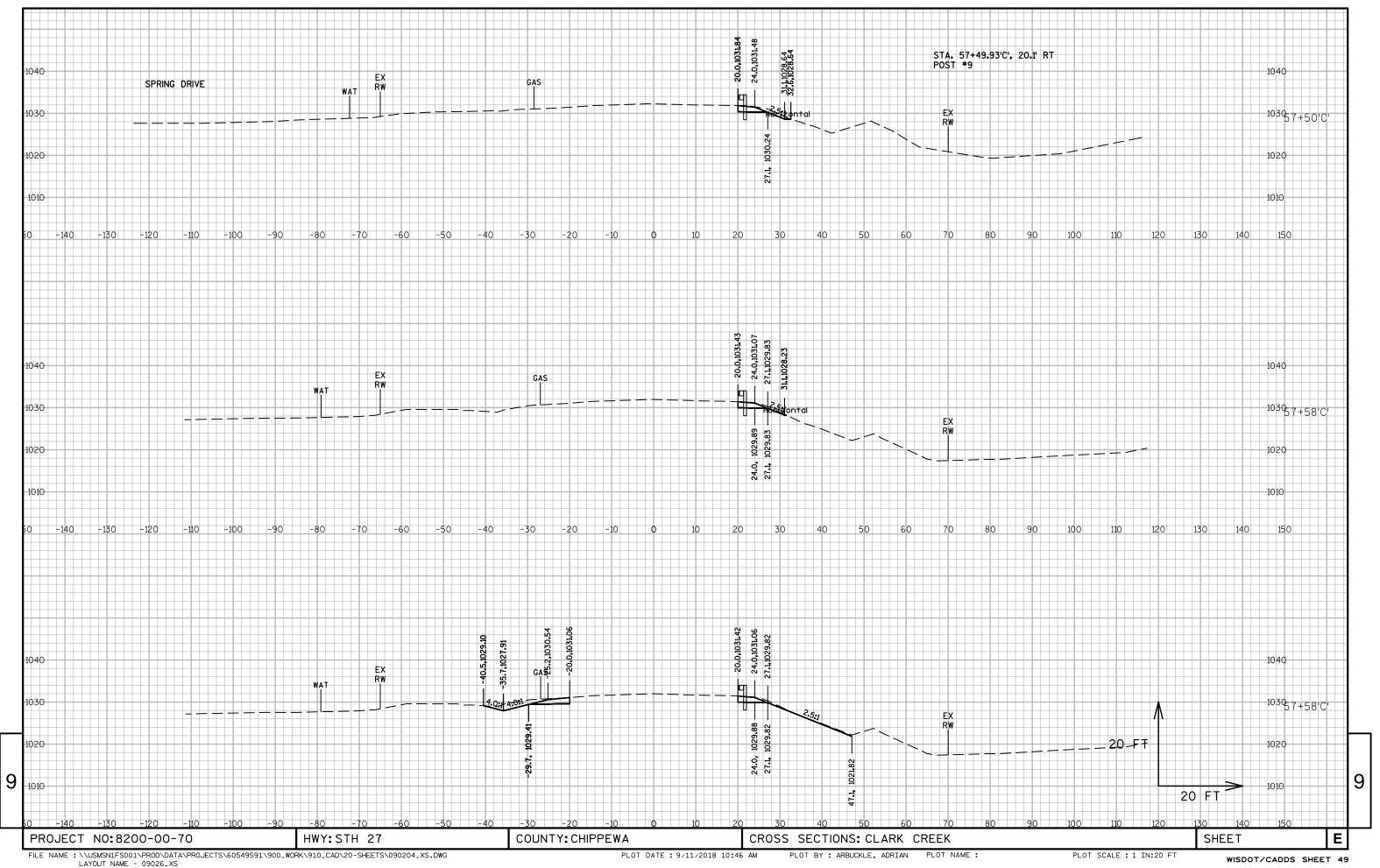


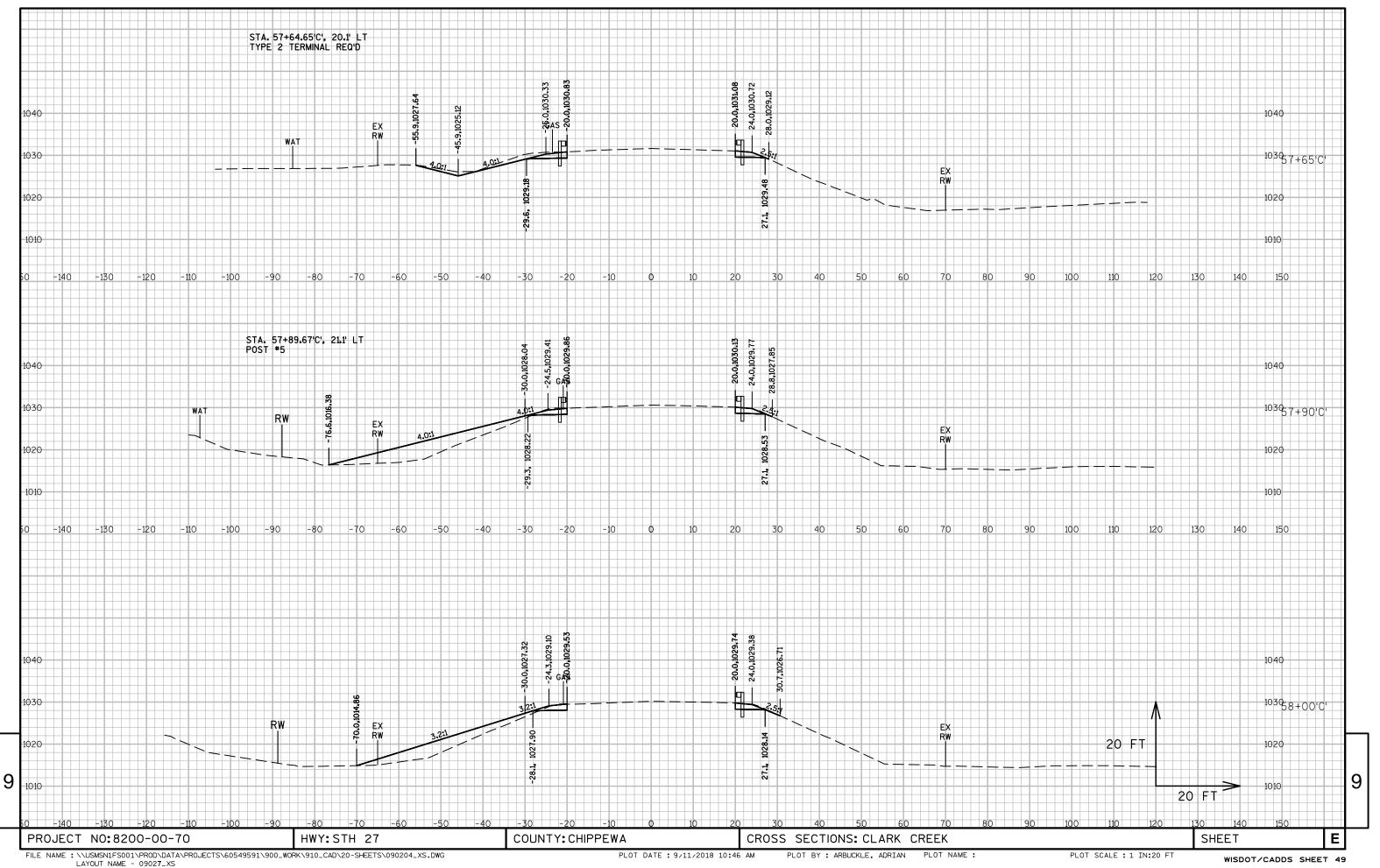


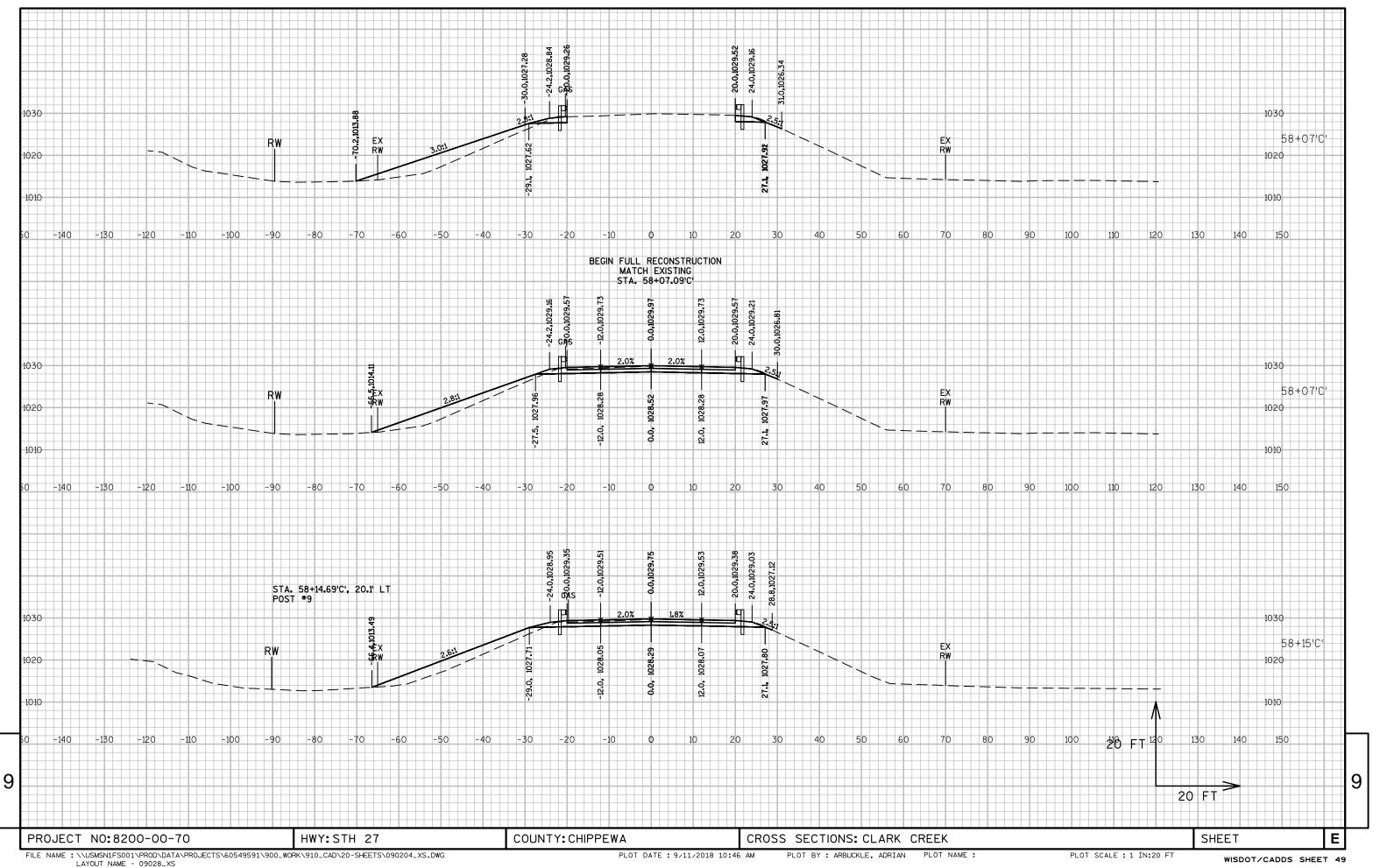


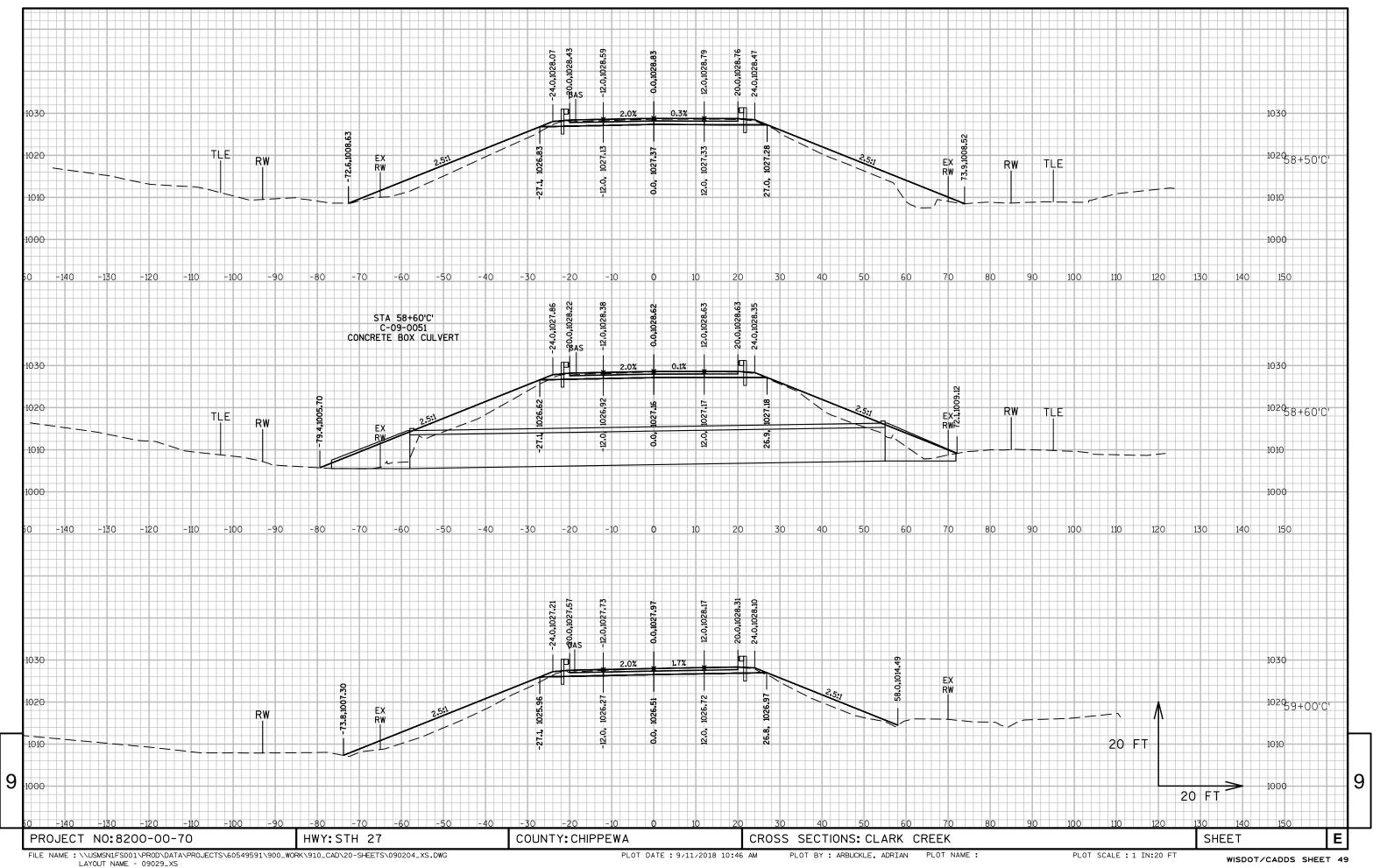


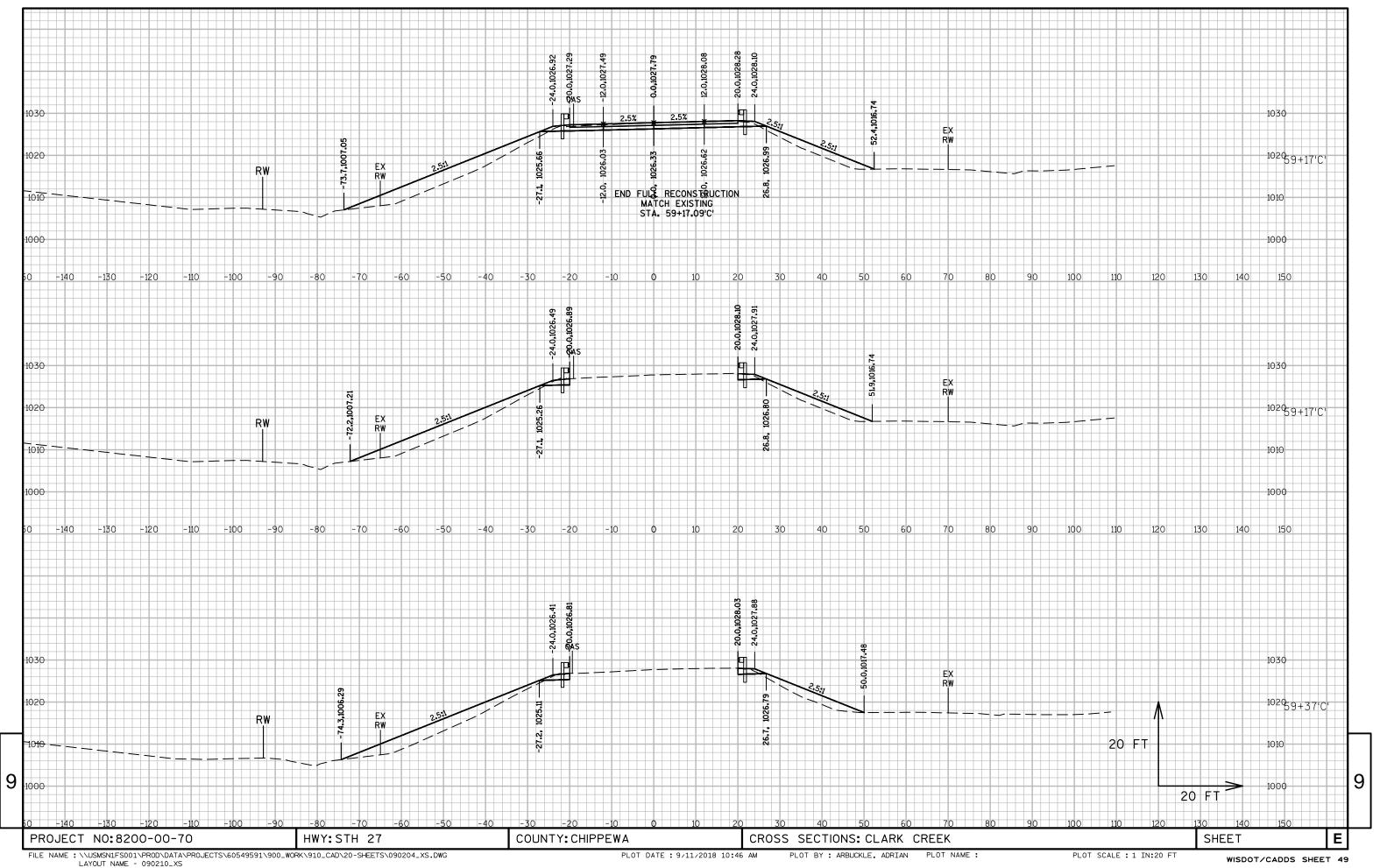


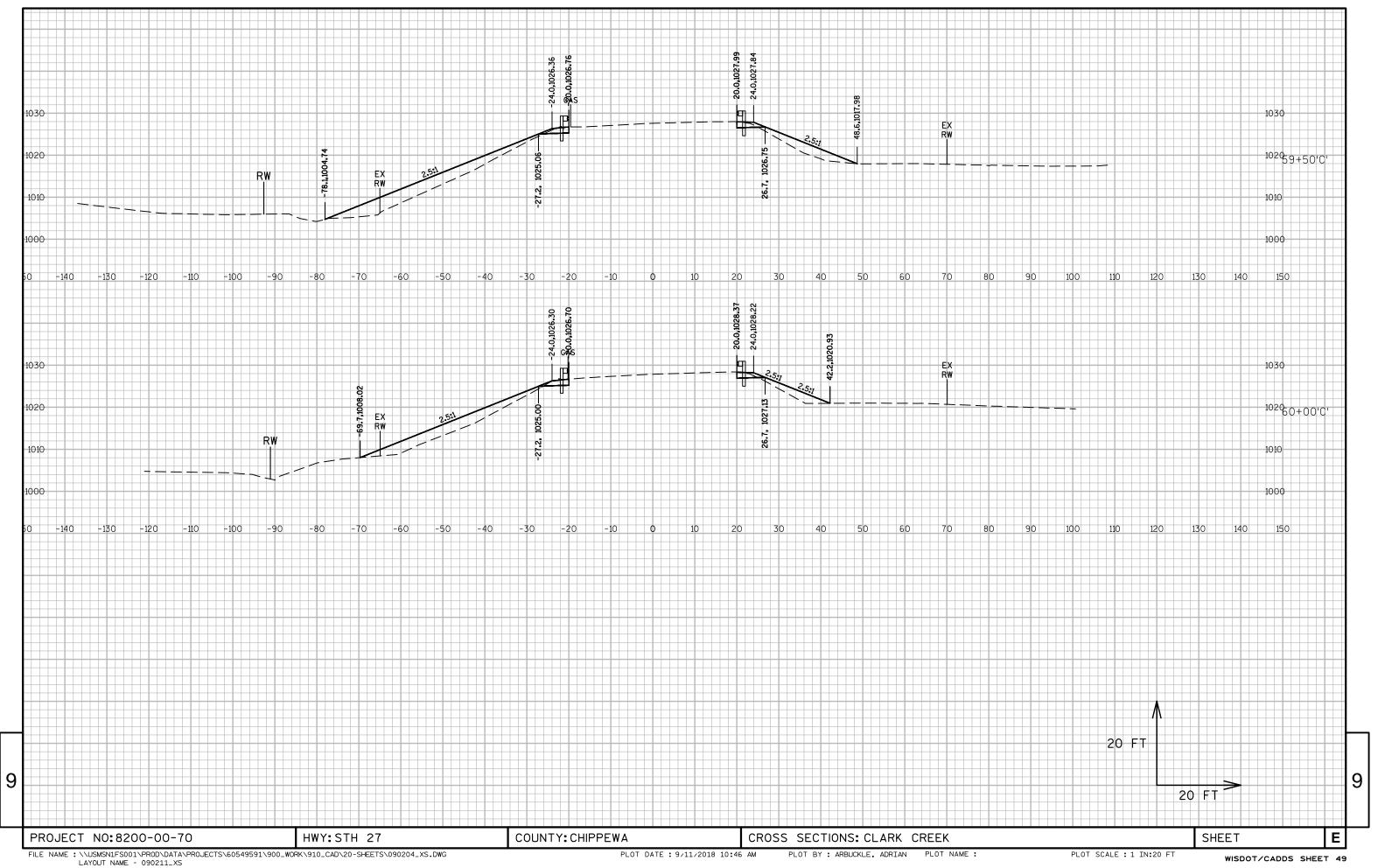


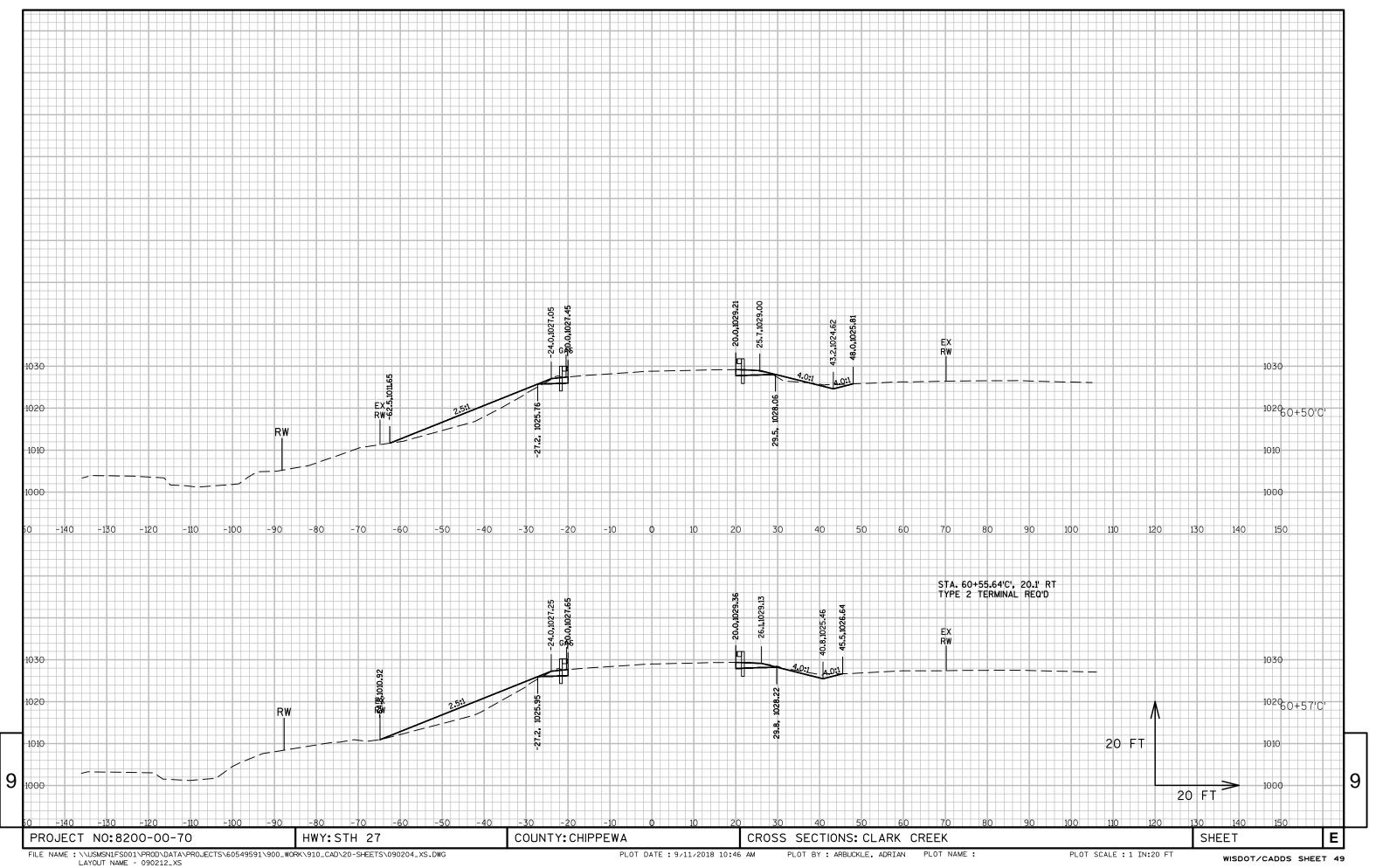


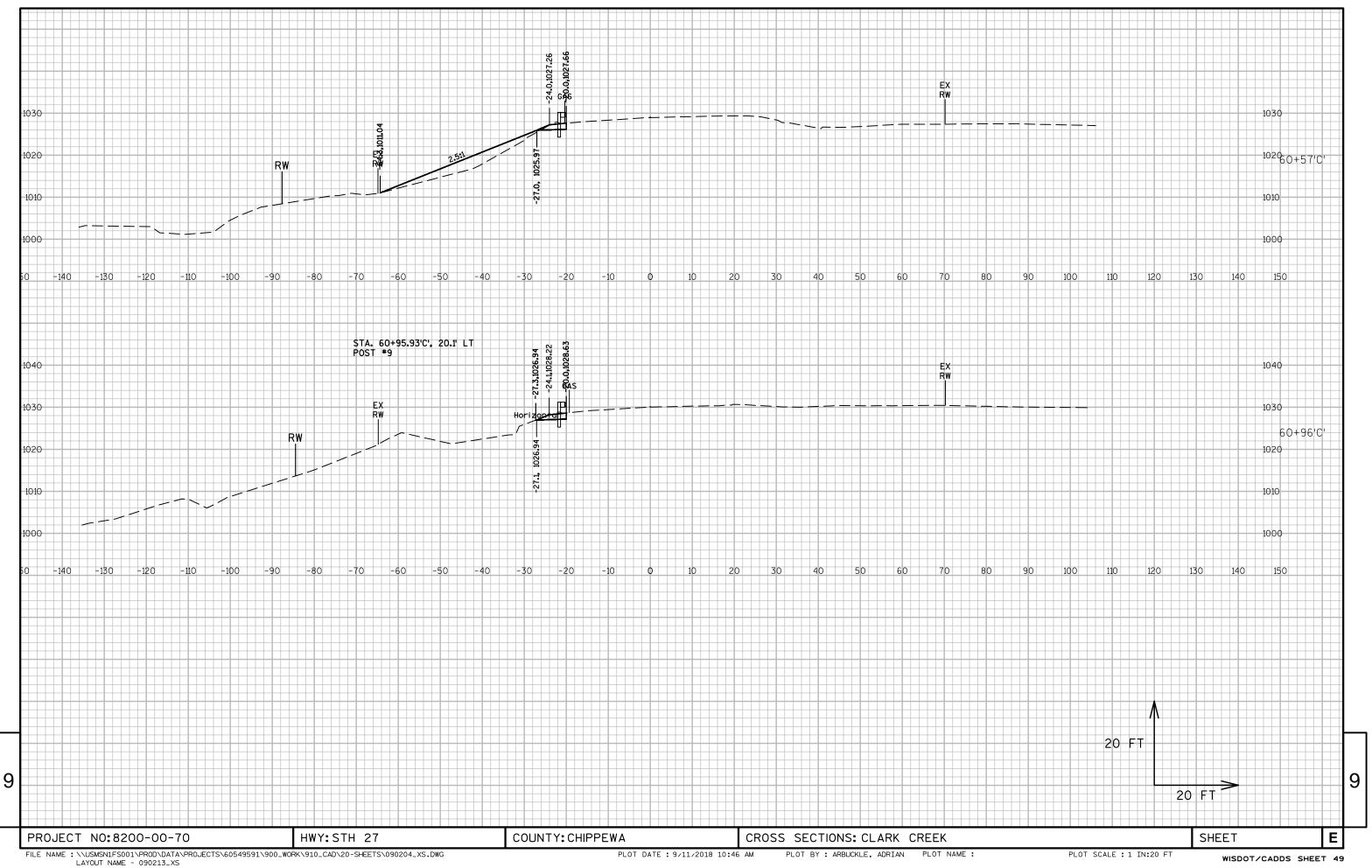


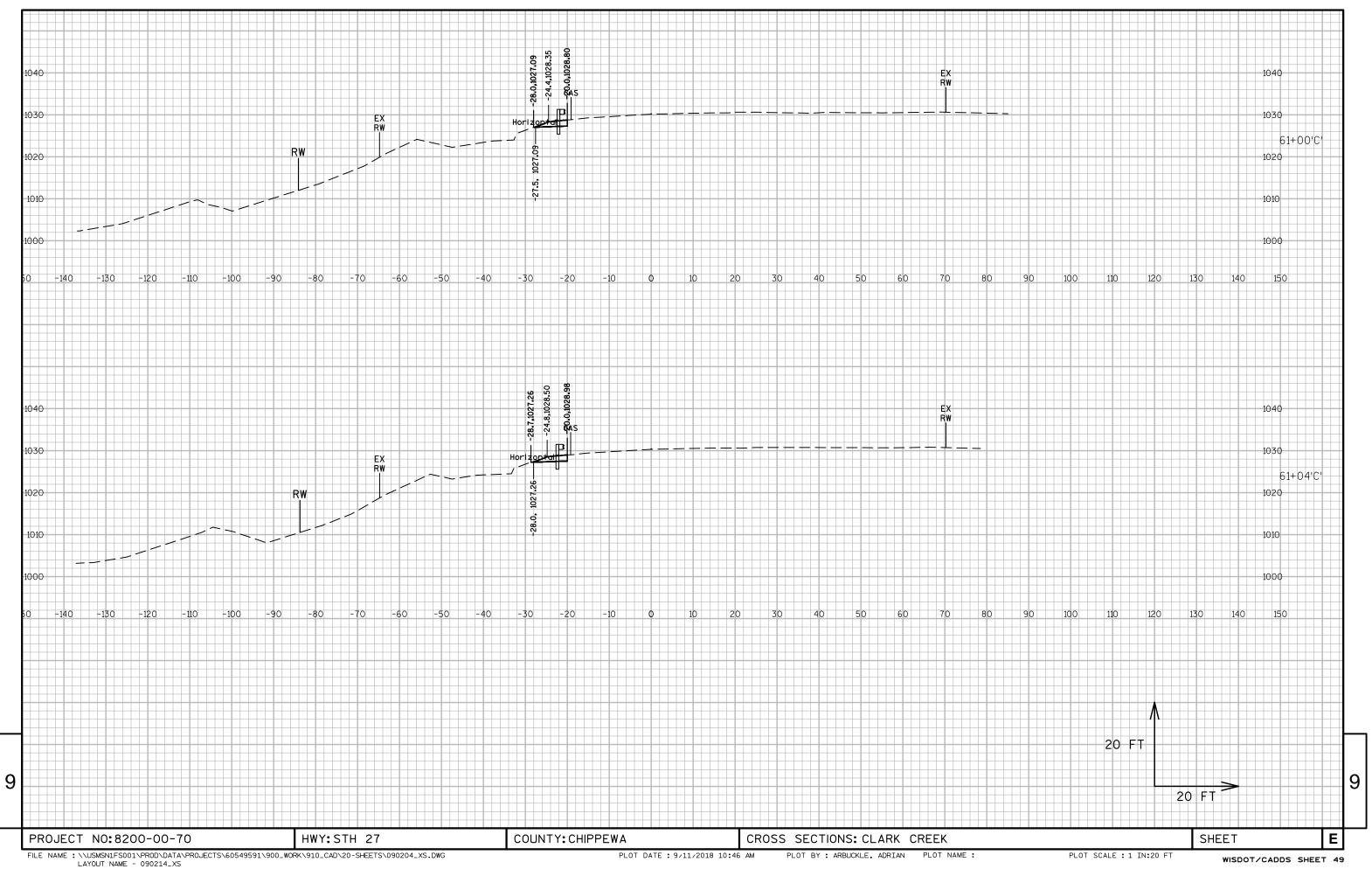


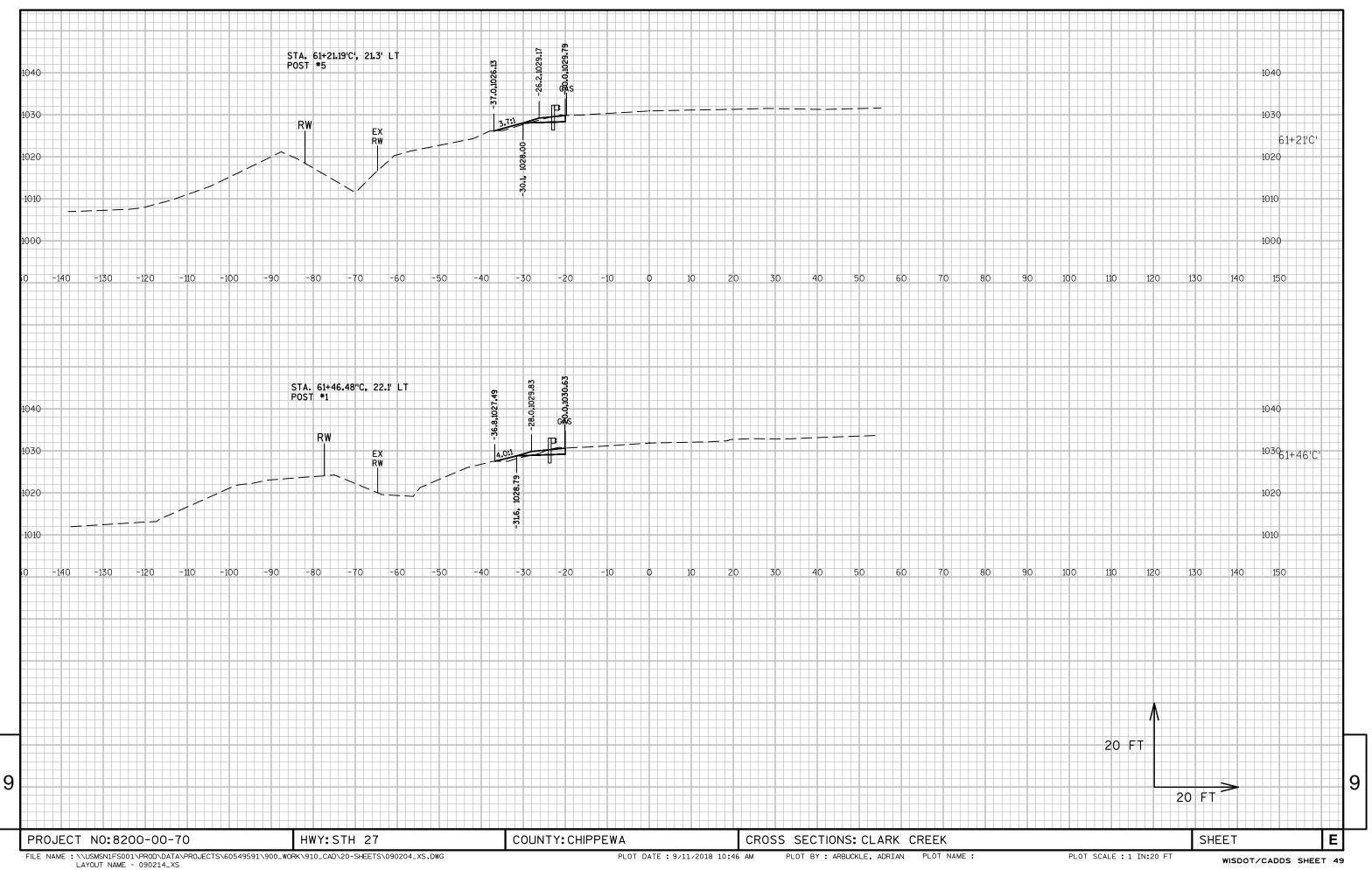


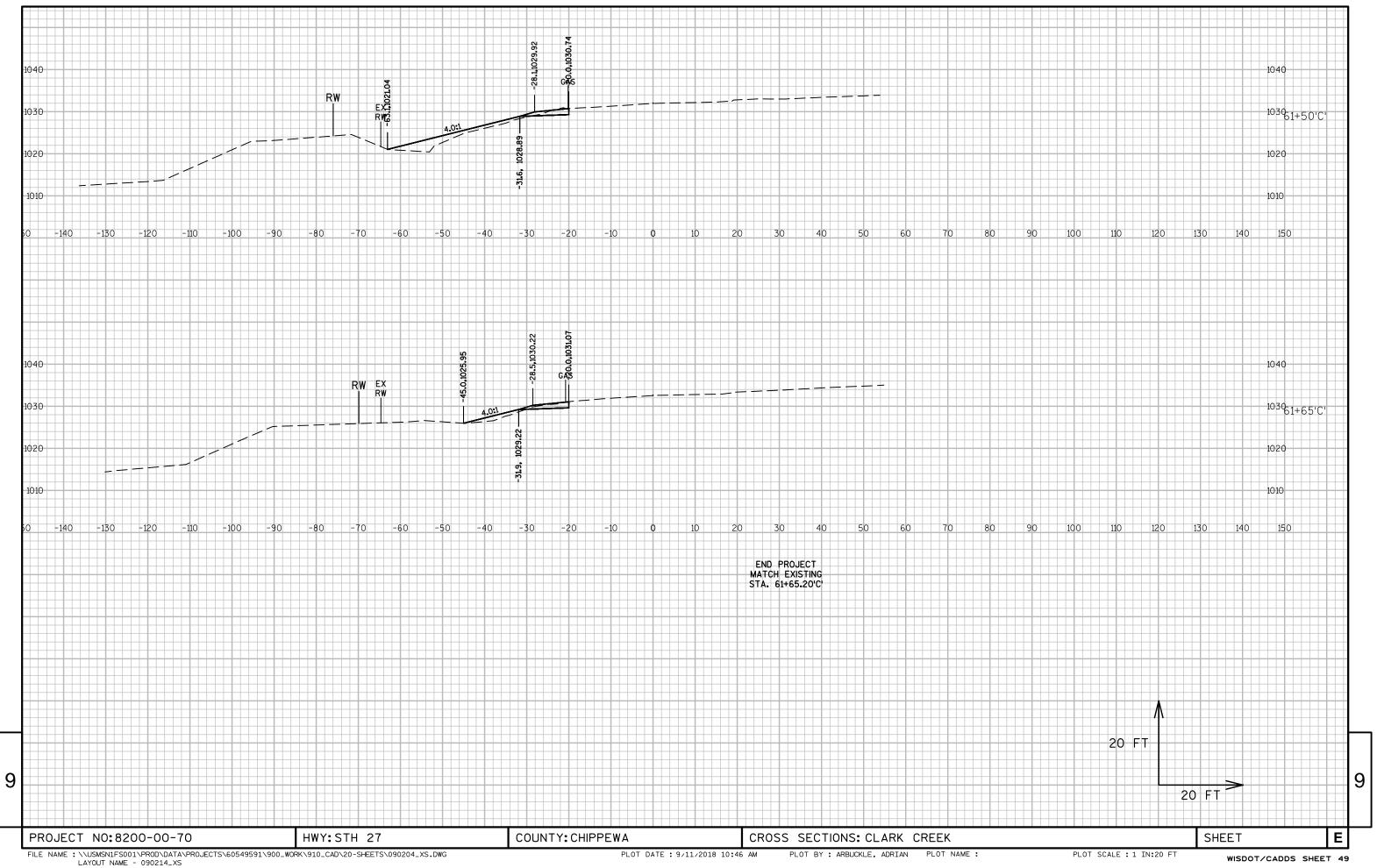


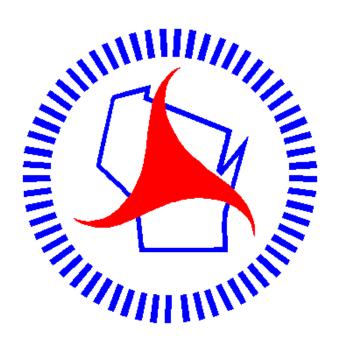












Wisconsin Department of Transportation

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