

WISDOT/CADDS SHEET 42

#### **GENERAL NOTES**

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

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

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

SEED, EROSION MAT, AND FERTILIZE ALL SALVAGED TOPSOILED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

DO NOT APPLY FERTILIZER WITHIN 20 FEET OF A WATER BODY OR WETLAND.

SEED MIXTURE NO.20 SHALL BE USED THROUGHOUT THE PROJECT.

EROSION CONTROL MEASURES WILL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. ANY REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.

RESHAPE AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING MOTORISTS AND PEDESTRIANS THAT MAY ENTER THE WORK ZONE FROM POSSIBLE HAZARD.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD.

FILE NAME :

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

#### **UTILITY CONTACTS**

CHARTER COMMUNICATIONS 2304 SOUTH MAIN STREET RICE LAKE, WI 54868 ATTN: JAMEY OLDEEN 715-736-0561 jamey.oldeen@charter.com

XCEL ENERGY - ELECTRICITY
2400 FARM ROAD
ASHLAND, WI 54806
ATTN: MURRAY SMERER
715-682-6928
murray.j.smerer@xcelenergy.com

XCEL ENERGY - GAS/PETROLEUM 2400 FARM ROAD ASHLAND, WI 54806 ATTN:MURRAY SMERER 715-682-6928 murray.j.smerer@xcelenergy.com

CENTURYLINK
20 SOUTH WILSON AVENUE
RICE LAKE, WI 54868
ATTN: MONTY PARKER
715-234-5528
monty.parker@centurylink.com

NORVADO - COMMUNICATION 43750 USH 63 PO BOX 67 CABLE, WI 54821 ATTN: GUY FOLSOM 715) 798-7123 gfolsom@norvado.com

WASHBURN MUN WATER AND SEWER UTILITY - WATER PO BOX 638
WASHBURN, WI 54891-0638
ATTN: BOB ANDERSON
715-373-6171
dpw@cityofwashburn.org

WASHBURN MUN WATER AND SEWER UTILITY - SEWER PO BOX 638
WASHBURN, WI 54891-0638
ATTN:BOB ANDERSON
715-373-6171
dpw@cityofwashburn.org

\* DENOTES NOT A DIGGERS HOTLINE MEMBER



#### WISDOT DESIGN CONTACT

1701 NORTH 4TH STREET SUPERIOR, WI 54880 ATTN: PHILIP KEPPERS, PE 715-395-3077 philip.keepers@dot.wi.gov

#### DESIGN CONTACT

AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: BRETT HOLLISTER, PE
715-834-3161
hollisterb@ayresassociates.com

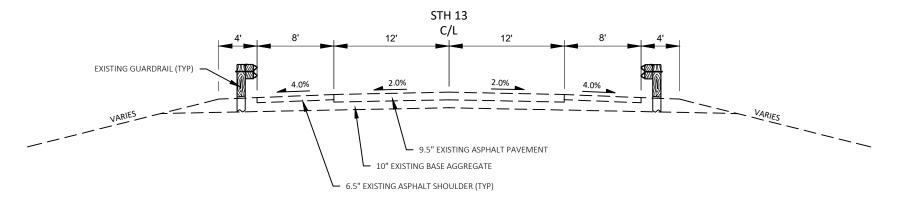
#### DNR CONTACT

DNR NORTHERN REGION HQ 810 WEST MAPLE STREET SPOONER, WI 54801 ATTN: SHAWN HASELEU 715-635-4228 shawn.haseleu@wisconsin.gov

PROJECT NO: 8160-01-70 HWY: STH 13 COUNTY: BAYFIELD GENERAL NOTES SHEET **E** 

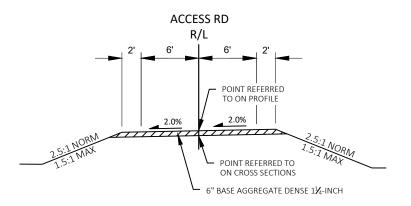
2

2



## **EXISTING TYPICAL SECTION STH 13**

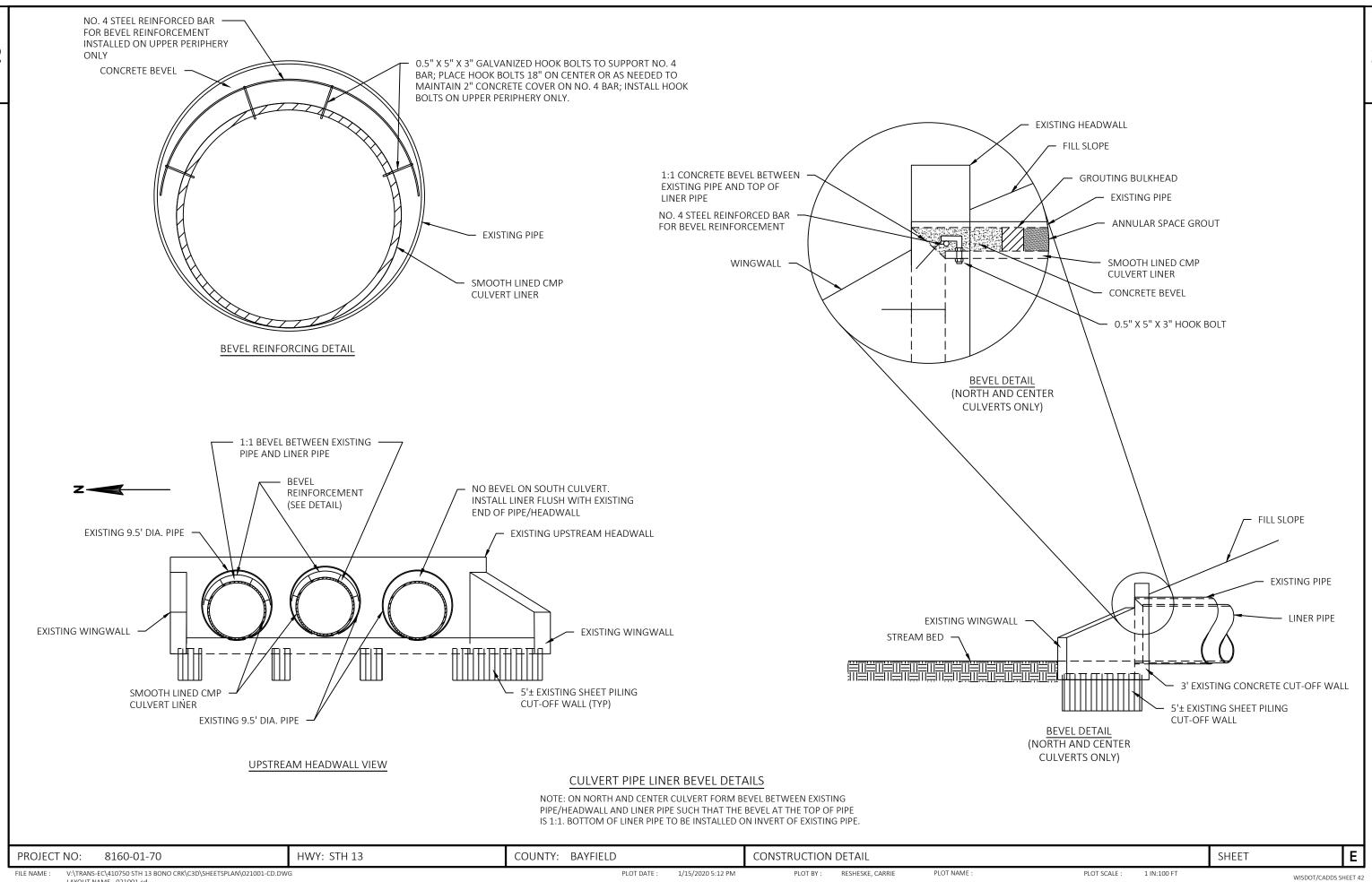
STA 202+80.00 - STA 210+86.00



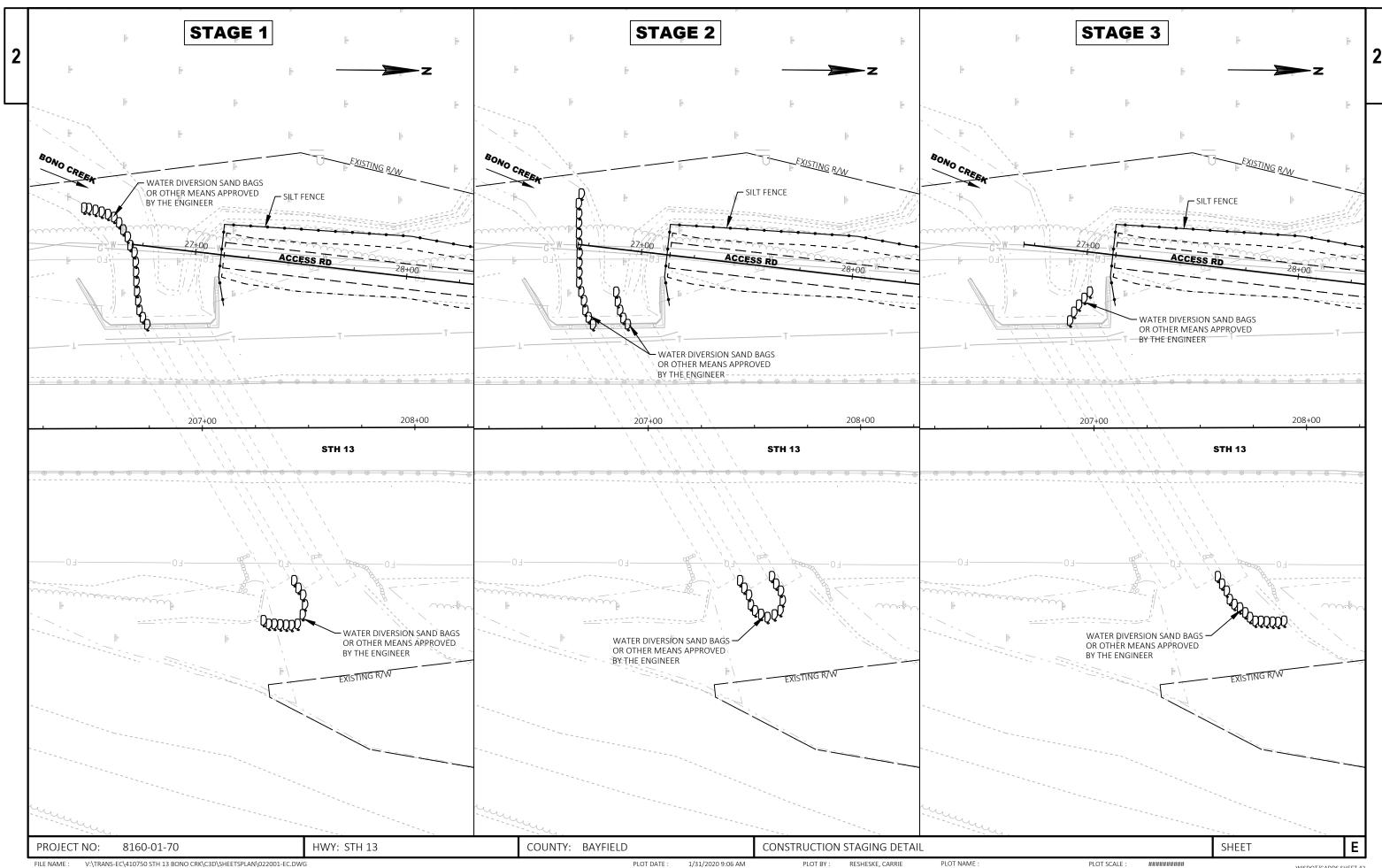
## FINISHED TYPICAL SECTION - ACCESS ROAD

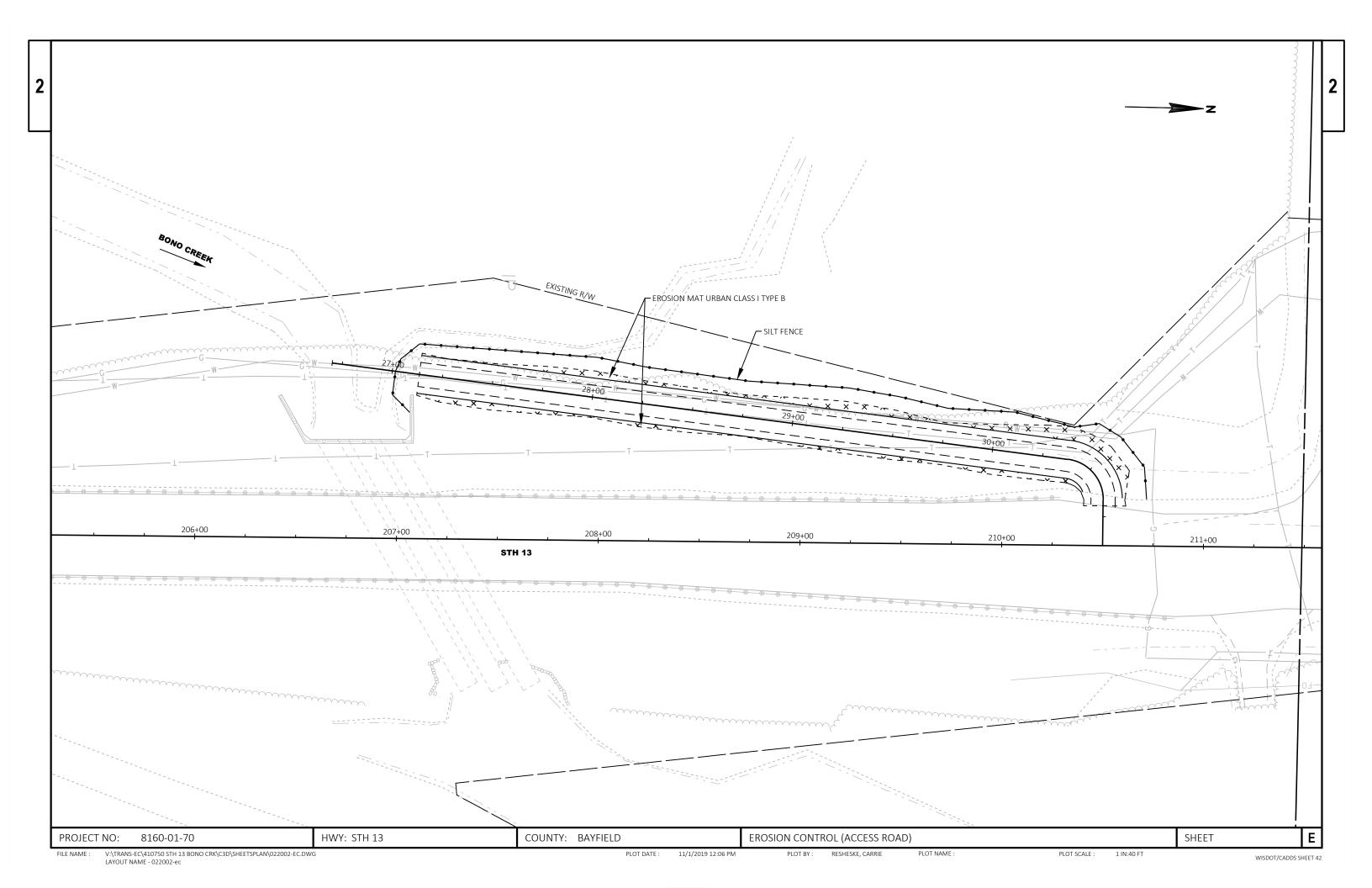
STA 27+13.49 - STA 30+70.26

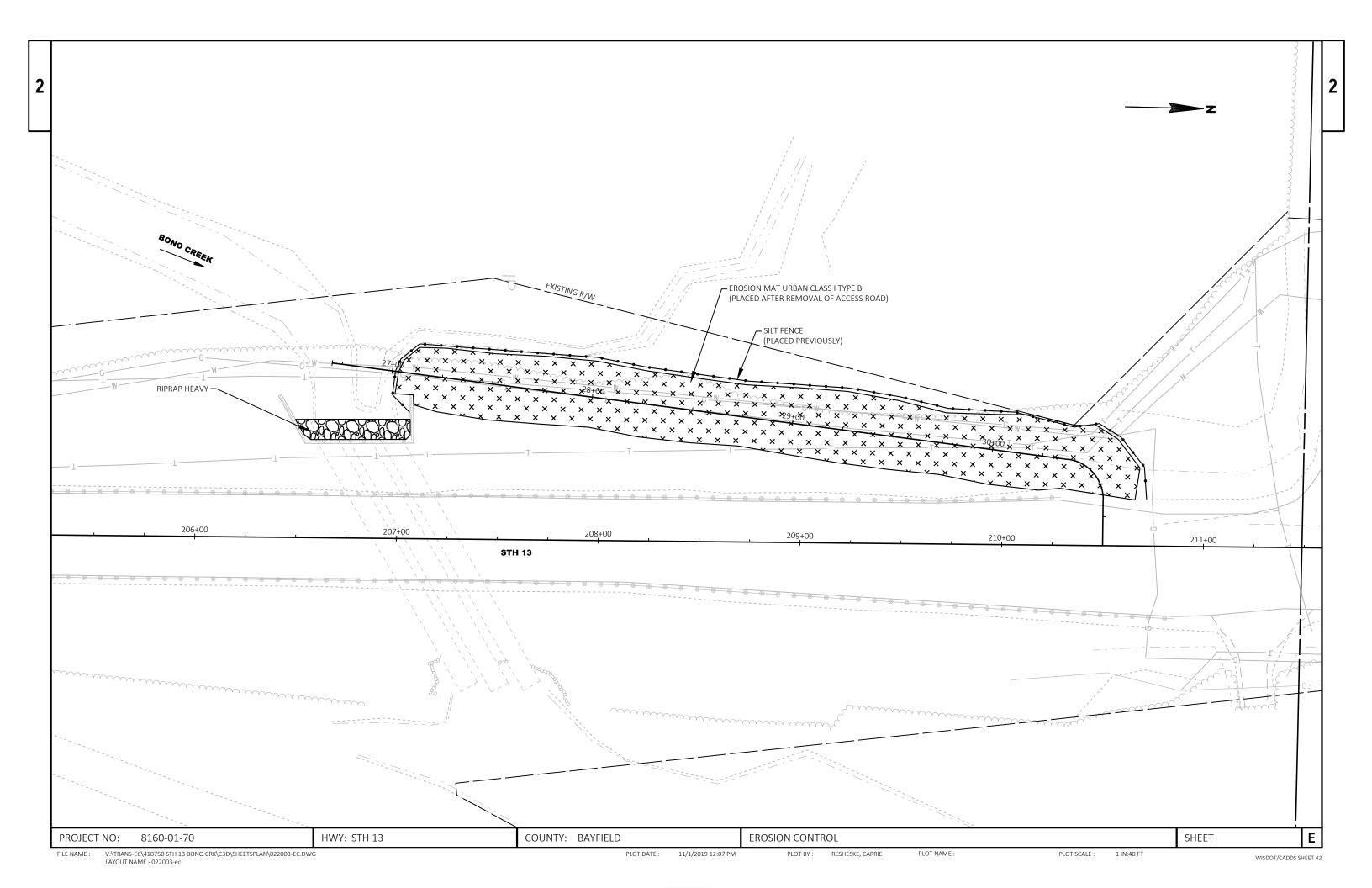
PROJECT NO: 8160-01-70 HWY: STH 13 COUNTY: BAYFIELD TYPICAL SECTIONS SHEET **E** 



LAYOUT NAME - 021001-cd







# **Estimate Of Quantities**

					8160-01-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0205	Grubbing	STA	4.000	4.000
0006	205.0100	Excavation Common	CY	386.000	386.000
0008	208.0100	Borrow	CY	284.000	284.000
0010	213.0100	Finishing Roadway (project) 01. 8160-01-70	EACH	1.000	1.000
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	259.000	259.000
0014	606.0300	Riprap Heavy	CY	40.000	40.000
0016	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8160-01-70	EACH	1.000	1.000
0018	619.1000	Mobilization	EACH	1.000	1.000
0020	624.0100	Water	MGAL	3.900	3.900
0022	625.0500	Salvaged Topsoil	SY	1,042.000	1,042.000
0024	627.0200	Mulching	SY	1,082.000	1,082.000
0026	628.1504	Silt Fence	LF	516.000	516.000
0028	628.1520	Silt Fence Maintenance	LF	516.000	516.000
0030	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0032	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0034	628.2008	Erosion Mat Urban Class I Type B	SY	1,830.000	1,830.000
0036	629.0210	Fertilizer Type B	CWT	1.100	1.100
0038	630.0120	Seeding Mixture No. 20	LB	47.000	47.000
0040	630.0200	Seeding Temporary	LB	24.600	24.600
0042	630.0500	Seed Water	MGAL	20.000	20.000
0044	642.5001	Field Office Type B	EACH	1.000	1.000
0046	643.0420	Traffic Control Barricades Type III	DAY	138.000	138.000
0048	643.0705	Traffic Control Warning Lights Type A	DAY	138.000	138.000
0050	643.0900	Traffic Control Signs	DAY	759.000	759.000
0052	643.5000	Traffic Control	EACH	1.000	1.000
0054	645.0120	Geotextile Type HR	SY	98.000	98.000
0056	650.4500	Construction Staking Subgrade	LF	357.000	357.000
0058	650.5000	Construction Staking Base	LF	357.000	357.000
0060	650.9910	Construction Staking Supplemental Control (project) 8160-01-70	LS	1.000	1.000
0062	650.9920	Construction Staking Slope Stakes	LF	357.000	357.000
0064	SPV.0090	Special 01. Smooth Lined CMP Culvert Liner, 102-Inch		288.000	288.000
0066	SPV.0090	Special 02. CMP Culvert Liner, 102-Inch	LF	144.000	144.000
0068	SPV.0090	Special 01. Temporary Water Diversion (B-04-0029)	LS	1.000	1.000
0000	SF V.U1U3	opedial 01. Temporary water Diversion (D-04-0029)	LS	1.000	1.000

#### BASE AGGREGATE DENSE 1 1/4 -INCH

PROJECT TOTALS		4	4
27+00 - 31+00	ACCESS RD	4	4
STATION TO STATION	LOCATION	STA	STA
		CLEARING	GRUBBING
		201.0105	201.0205

PROJECT TOTAL		259
UNDISTRIBUTED		34
27+13.49 - 30+70.26	ACCESS RD	225
STATION TO STATION	LOCATION	305.0120 TON

#### EARTHWORK SUMMARY

		(1) 205.0100 EXCAVATION	UNUSABLE PAVEMENT	(3) AVAILABLE	UNEXPANDED	(2) EXPANDED	MASS	(4) 208.0100
		COMMON	MATERIAL	MATERIAL	FILL	FILL	ORDINATE +/-	BORROW
STATION TO STATION	LOCATION	CY	CY	CY	CY	CY	CY	CY
27+00 - 30+50 27+00 - 30+50	ACCESS ROAD (INSTALL) ACCESS ROAD (REMOVE)	51 335		51 335	258 	335	284	284
PROJECT TOTALS		386		386		335	284	284

#### NOTES:

- (1) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (2) EXPANSION FACTOR = 1.3
- (3) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (4) BORROW = EXPANDED FILL AVAILABLE MATERIAL

## RIPRAP HEAVY & GEOTEXTILE TYPE HR

STATION	LOCATION	606.0300 HEAVY CY	645.0120 TYPE HR SY
207+15	LT	40	98
PROJECT TO	TALS	40	98

#### MOBILIZATION

LOCATION	619.1000 EACH
PROJECT LIMITS	1
PROJECT TOTAL	1

#### TOPSOIL, MULCHING, FERTILIZER, SEEDING & WATER

PROJECT TOTALS		1042	1082	1.1	47	24.6	20
UNDISTRIBUTED		95	98	.10	4.3	2.2	2
27+13.49 - 30+70.26	FINAL	947	984	1.00	42.7		18
27+13.49 - 30+70.26	TEMPORARY					22.4	
STATION TO STATION		SY	SY	CWT	LB	LB	MGAL
		TOPSOIL	MULCHING	TYPE B	NO. 20	TEMPORARY	WATER
		SALVAGED	627.0200	FERTILIZER	MIXTURE	SEEDING	SEED
		625.0500		629.0210	SEEDING	630.0200	630.0500
					630.0120		

#### WATER

PROJECT TOTAL		3.9
27+13.49 - 30+70.26	ACCESS RD	3.9
STATION TO STATION	LOCATION	624.0100 MGAL

#### SILT FENCE

PROJECT TOTALS		516	516
UNDISTRIBUTED		86	86
27+00 - 30+65	ACCESS RD	430	430
STATION TO STATION	LOCATION	LF	LF
		628.1504	MAINTENANCE
			628.1520

#### EROSION MAT URBAN CLASS I TYPE B

STATION TO STATION	LOCATION	628.2008 SY
27+25 - 30+75 27+00 - 30+65 UNDISTRIBUTED	ACCESS ROAD ACCESS RD REMOVAL	191 1334 305
PROJECT TOTAL		1830

# MOBILIZATIONS EROSION CONTROL AND EMERGENCY EROSION CONTROL

PROJECT TOTALS	4	3
8160-01-70	4	3
PROJECT	EACH	EACH
	628.1905	EMERGENCY
		628.1910

#### TRAFFIC CONTROL ITEMS

		BARRI	643.0420 CADES	WARNING	643.0705 LIGHTS		643.0900	643.5000 TRAFFIC
		TYPE	III	TYP	E A	SIC	GNS	CONTROL
PROJECT	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH
8160-01-70	69	2	138	2	138	11	759	1
PROJECT TOTA	LS		138		138		759	1

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8160-01-70 HWY: STH 13 COUNTY: BAYFIELD MISCELLANEOUS QUANTITIES SHEET NO: E

# 3

#### CONSTRUCTION STAKING

PROJECT TOTALS	357	357	357
27+13 - 30+70	357	357	357
STATION TO STATION	LF	LF	LF
	SUBGRADE	BASE	STAKES
	650.4500	650.5000	650.9920 SLOPE

# CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

PROJECT LIMITS 1

#### SMOOTH LINED CMP CULVERT LINER, 102-INCH

STATION	SPV.0090.01 LF
207+09.15	144
207+25.50	144
PROJECT TOTAL	288

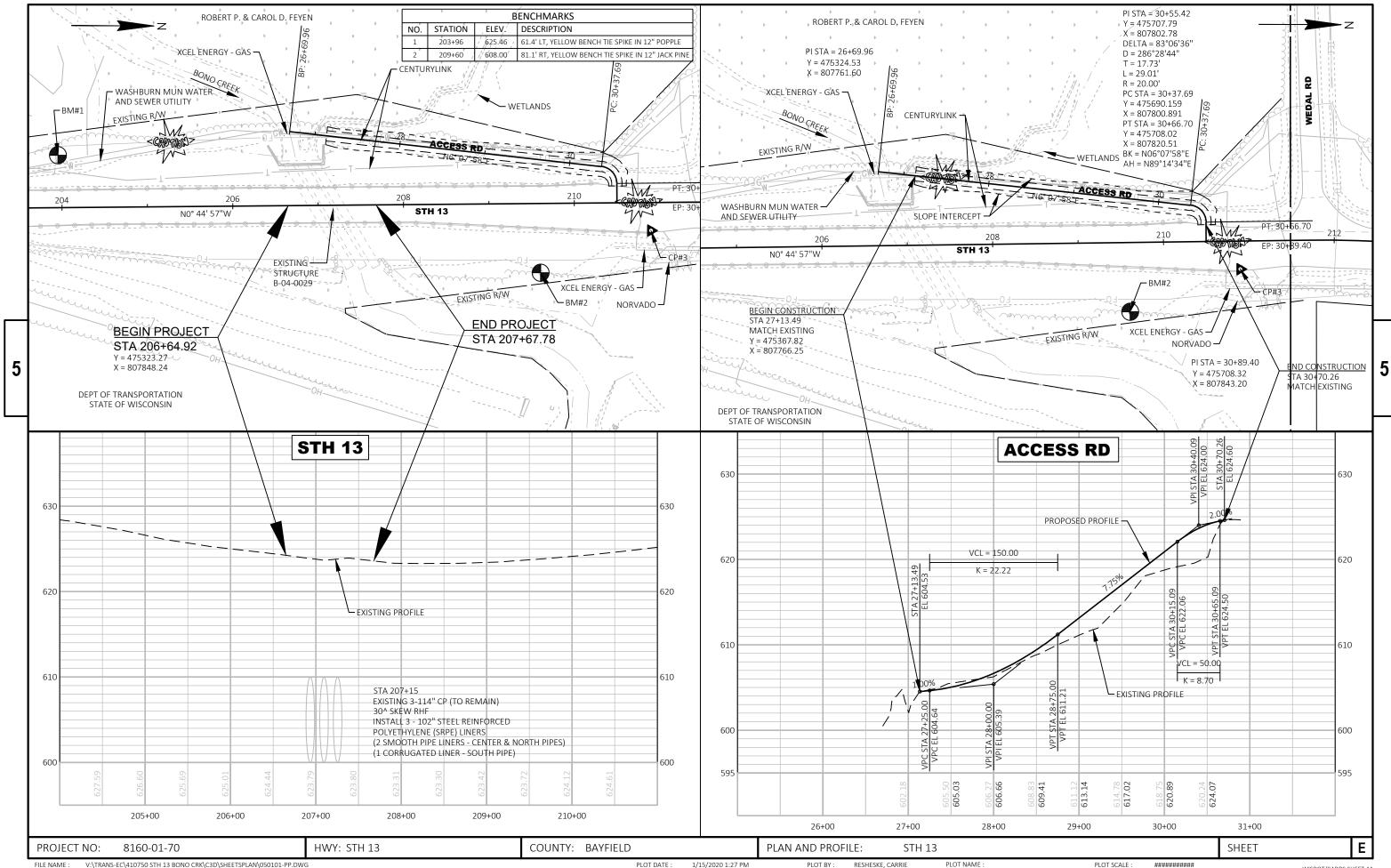
#### CMP CULVERT LINER, 102-INCH

#### TEMPORARY SAND BAG DIKE (STA 207+15)

			SPV.0105.01
LOCATIO	N	LS	
207.15	/ CITI MEDI	T TMED ()	1
ZU/+15	(CULVERT	LINEKS)	1

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8160-01-70 HWY: STH 13 COUNTY: BAYFIELD MISCELLANEOUS QUANTITIES SHEET NO: E



# Standard Detail Drawing List

08E09-06	SILT FENCE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D29-05	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

\_

# TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





# 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

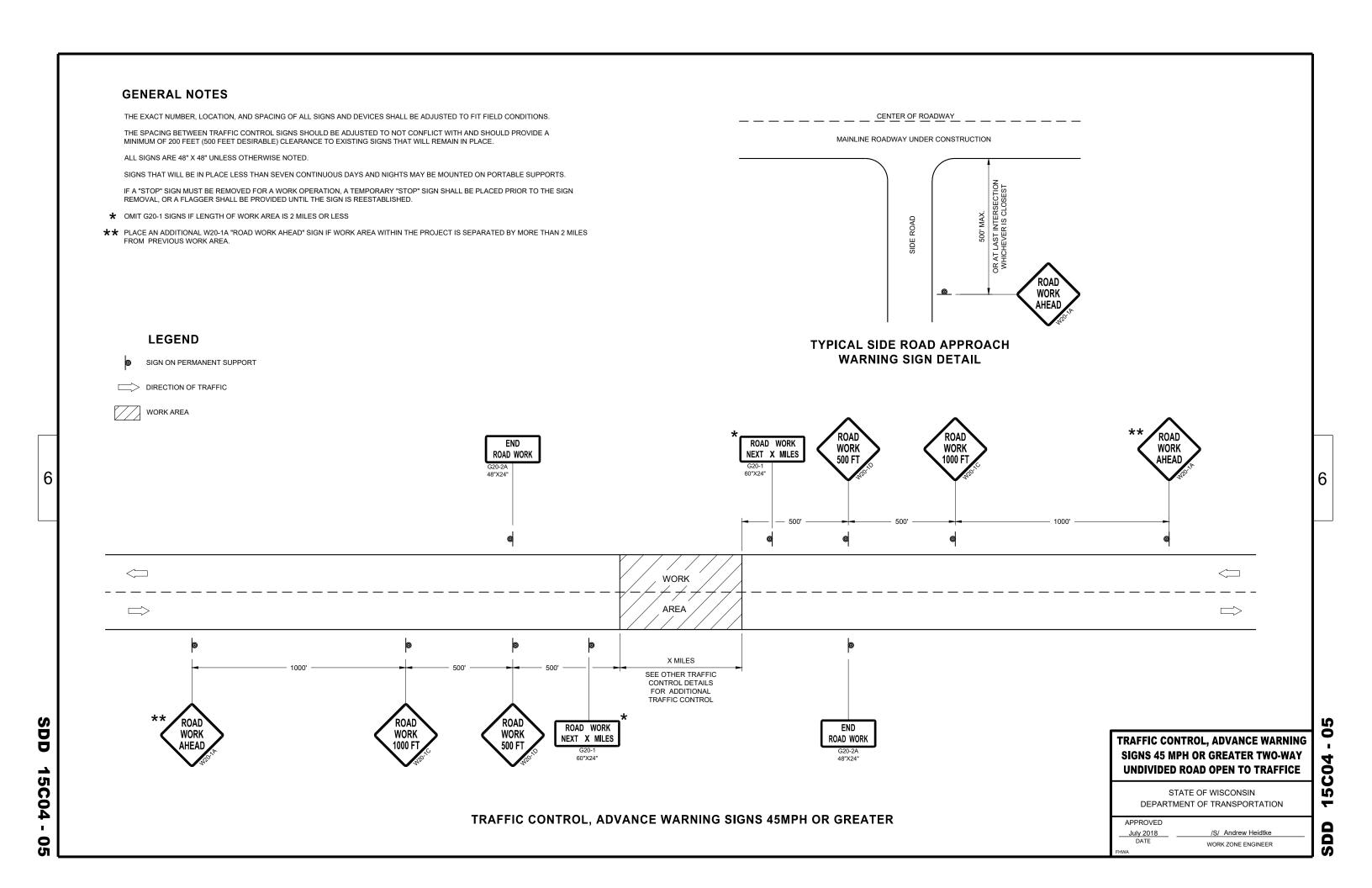
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

တ  $\infty$ 

6



SDD

**FLEXIBLE TUBULAR** 

**MARKER POST** 

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

RUMBLE

STRIPS

ROAD

WORK

#### **GENERAL NOTES FLAGGING LEGEND** FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

## TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

**FLAGGING OPERATION** STATE OF WISCONSIN

TRAFFIC CONTROL FOR

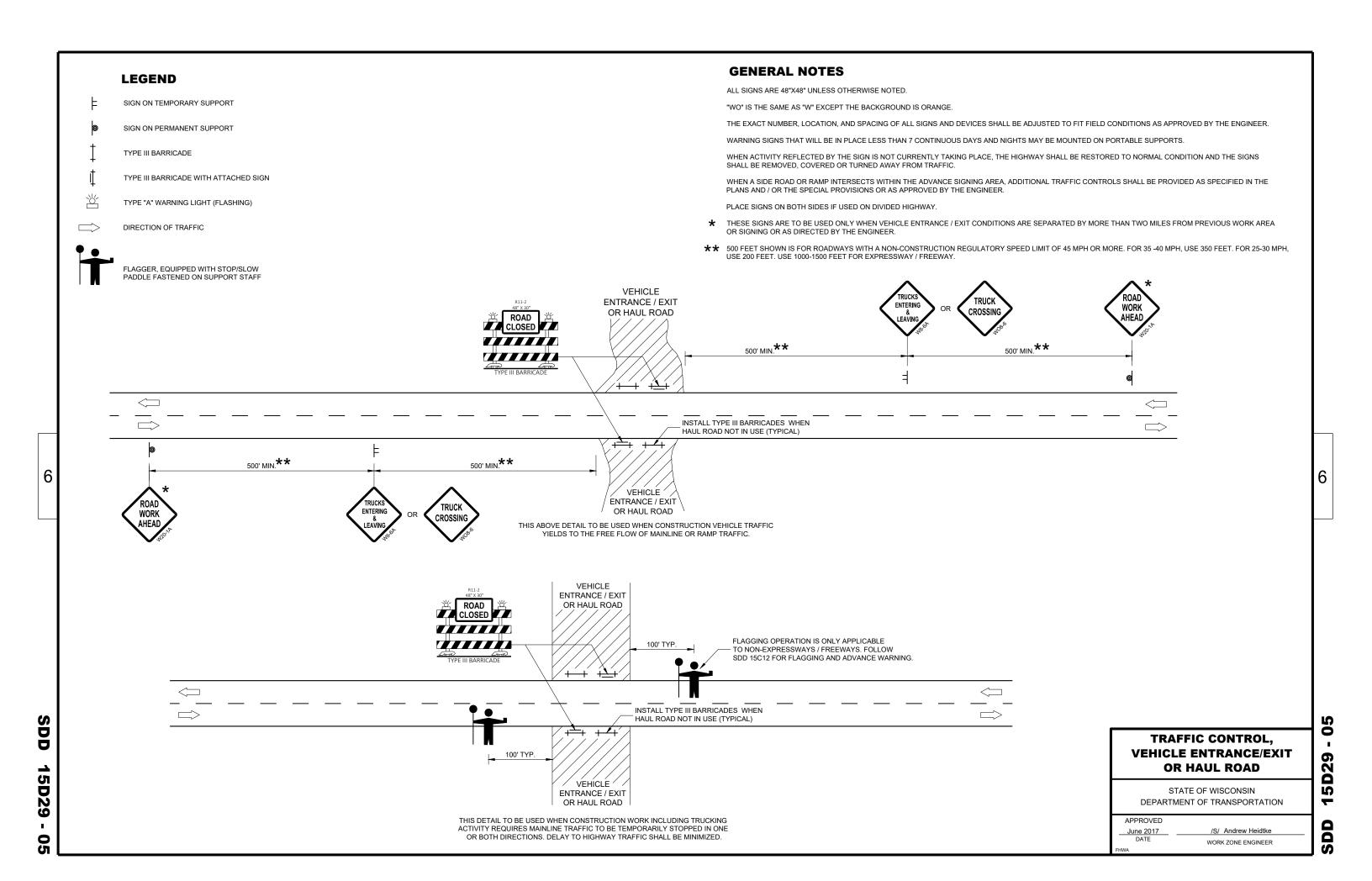
LANE CLOSURE WITH

2

S

DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER





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 EQUAL 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

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SQ. 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	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D  $\infty$ 

6

Δ

 $\infty$ 

6

- 11/2" DIAMETER HOLES

Ω

Ω

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 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 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

Ω Ω

6

2 b

18

က

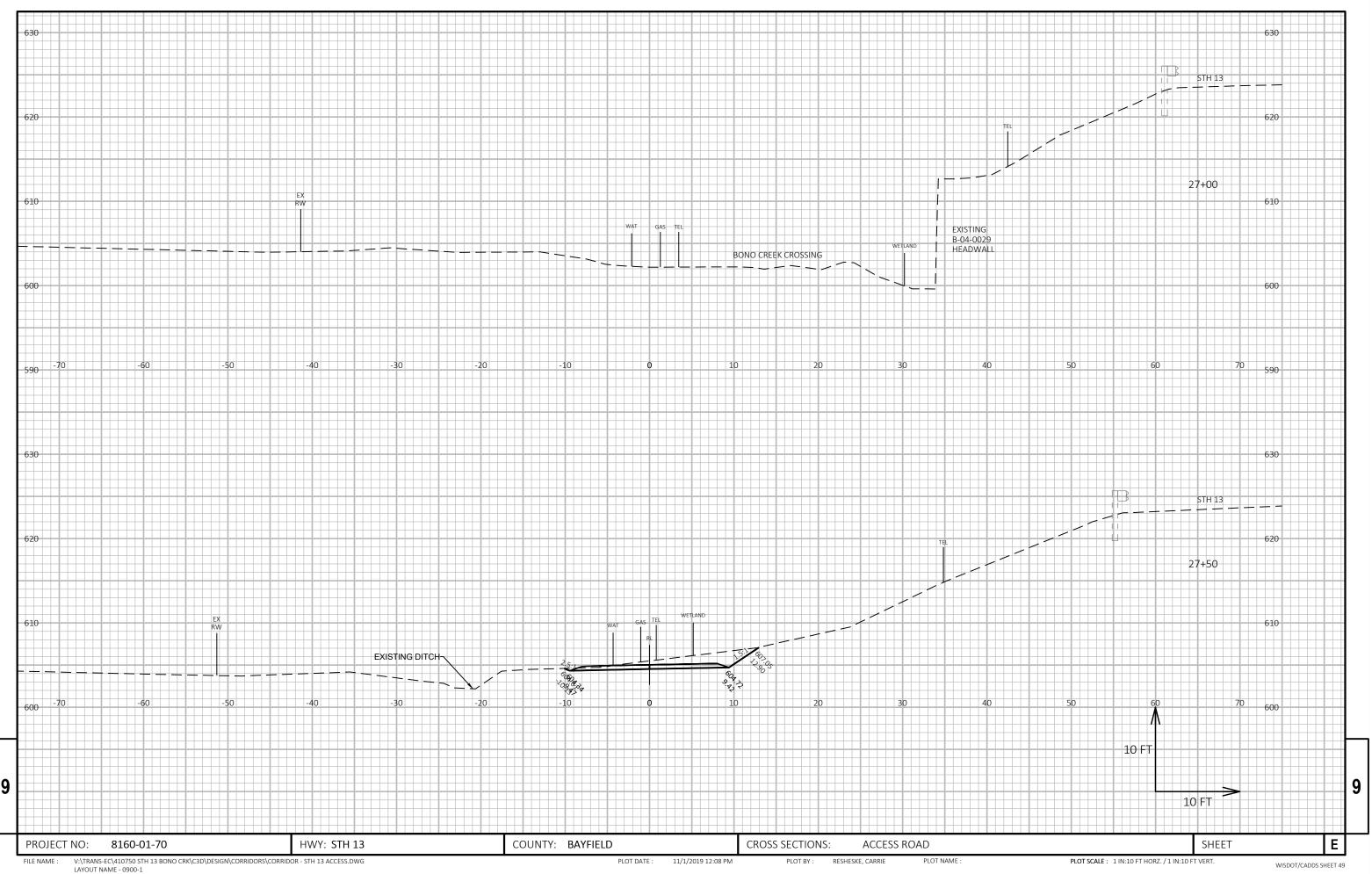
38-2b

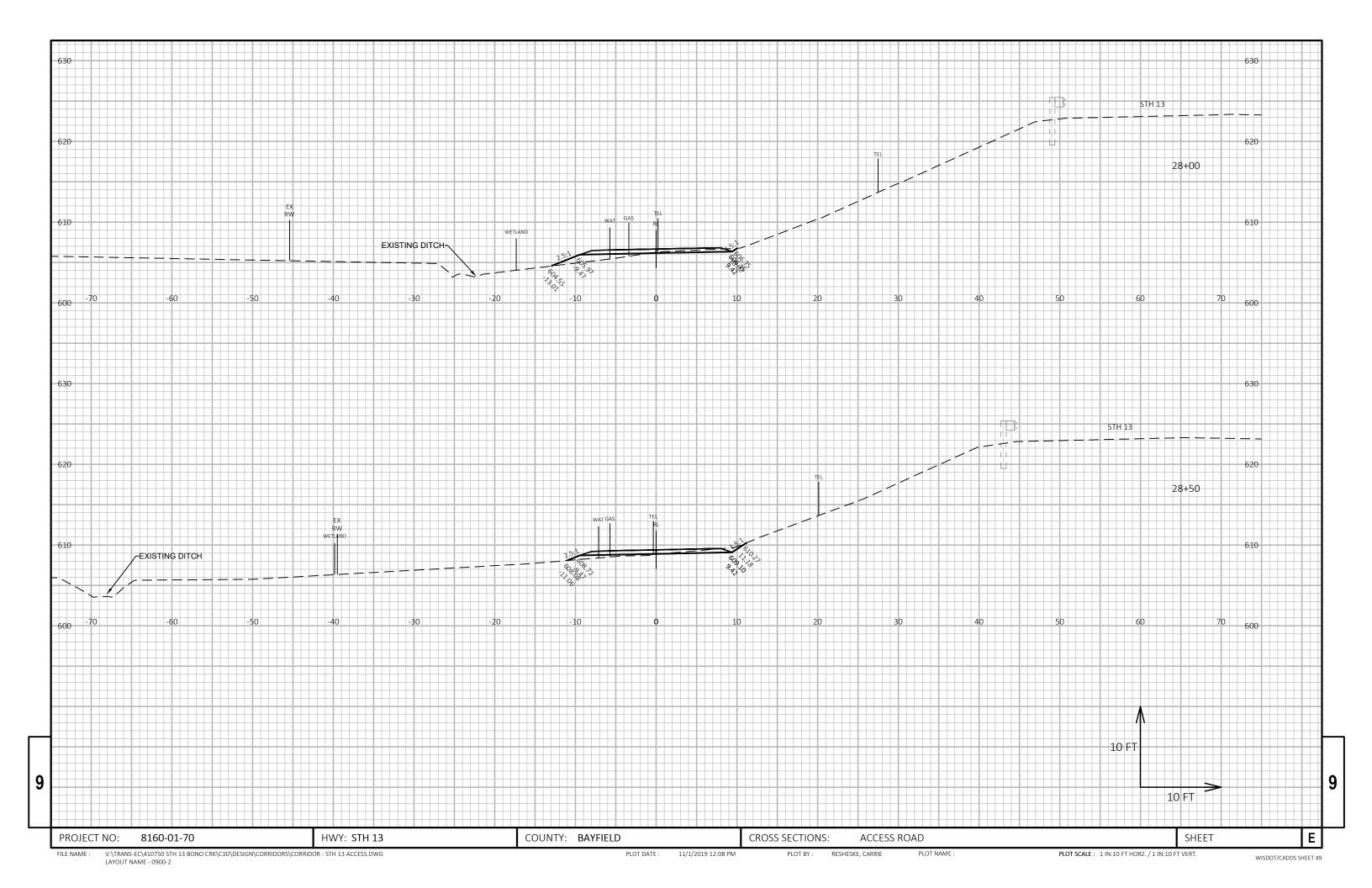
## **EARTHWORK DATA - ACCESS ROAD**

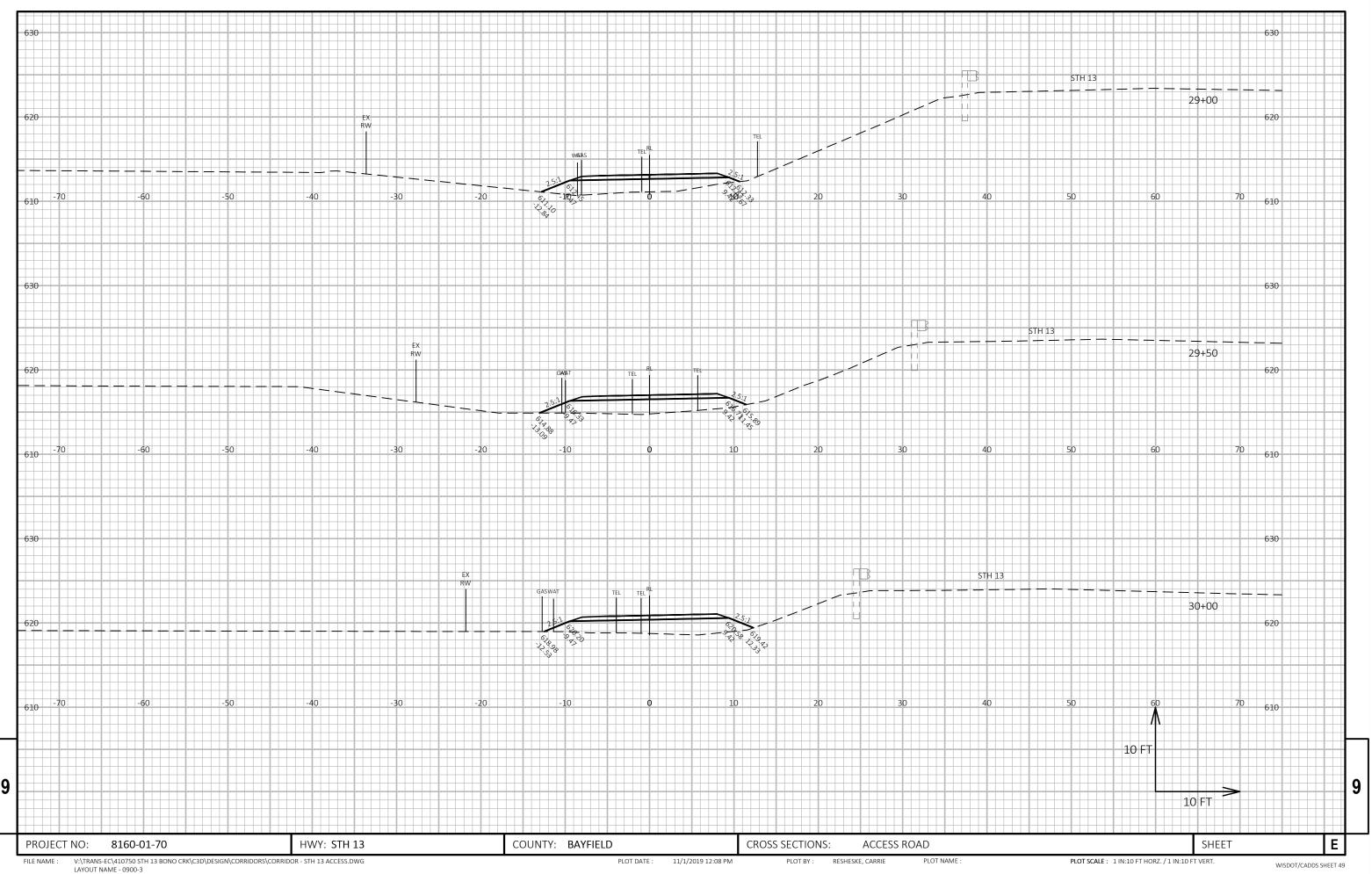
	AREA	A (SF)	INCR. VOL (CY)		CUMULATIVE VOL (CY)		
STATION	CUT	FILL	сит	FILL	CUT 1.00	EXP. FILL 1.30	MASS ORDINATE
27+00.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27+50.000	22.06	0.00	20.43	0.00	20.43	0.00	20.43
28+00.000	2.65	6.28	22.88	5.81	43.31	7.55	35.76
28+50.000	2.92	2.93	5.15	8.52	48.46	18.63	29.83
29+00.000	0.00	30.20	2.70	30.67	51.16	58.50	-7.34
29+50.000	0.00	33.11	0.00	58.62	51.16	134.71	-83.55
30+00.000	0.00	35.29	0.00	63.33	51.16	217.04	-165.88
30+50.000	0.00	61.44	0.00	91.05	51.16	335.40	-284.24

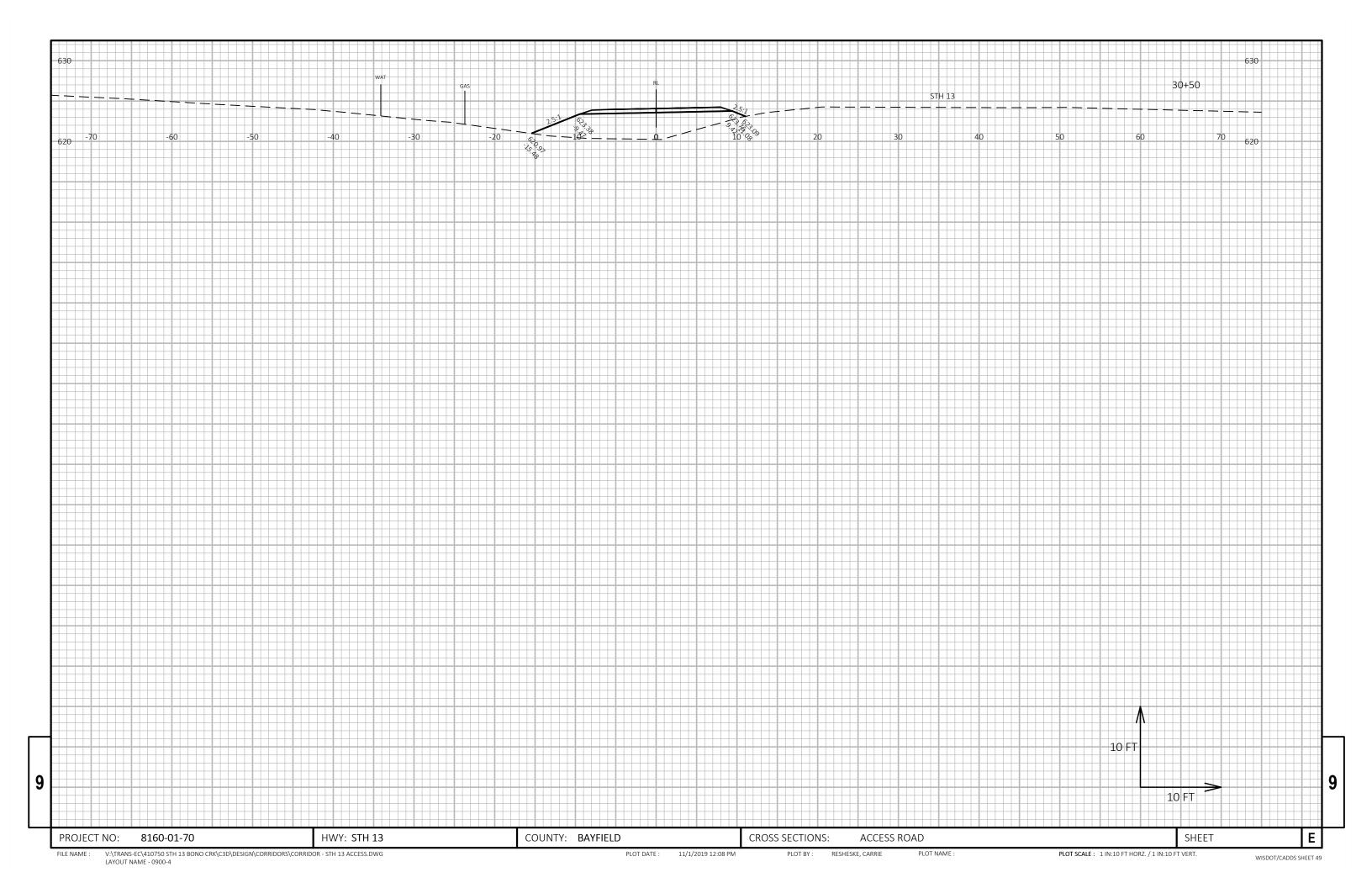
9

PROJECT NO: 8160-01-70 HWY: STH 13 COUNTY: BAYFIELD EARTHWORK DATA SHEET E









Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov