#### GRE MAR 2014

ORDER OF SHEETS

Section No.	1	IITIO
Section No.	2	Typical Sections and Detail
Section No.	3	Estimate of Quantities
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. 9 Cross Sections

TOTAL SHEETS = 20

# **BROWN COUNTY**

PROFILE

GRADE LINE ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

TELEPHONE

WATER

SANITARY SEWER STORM SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

Д

Ø

GRADE ELEVATION

MARSH OR ROCK PROFILE (To be noted as such)

CULVERT (Profile View)

#### DESIGN DESIGNATION

A.A.D.T. (2015)	=	10,400
A.A.D.T. (2035)	=	13,000
D.H.V. (K100, 2035)	=	1,274
D.D.	=	60/40
T. (DHV)	=	11.6%
DESIGN SPEED	=	30 MPH
ESALS	Ξ	4,905,600

#### CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS	(//////
PROPERTY LINE	PL • 58.1
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-caution-
MARSH AREA	
WOODED OR SHRUB AREA	£

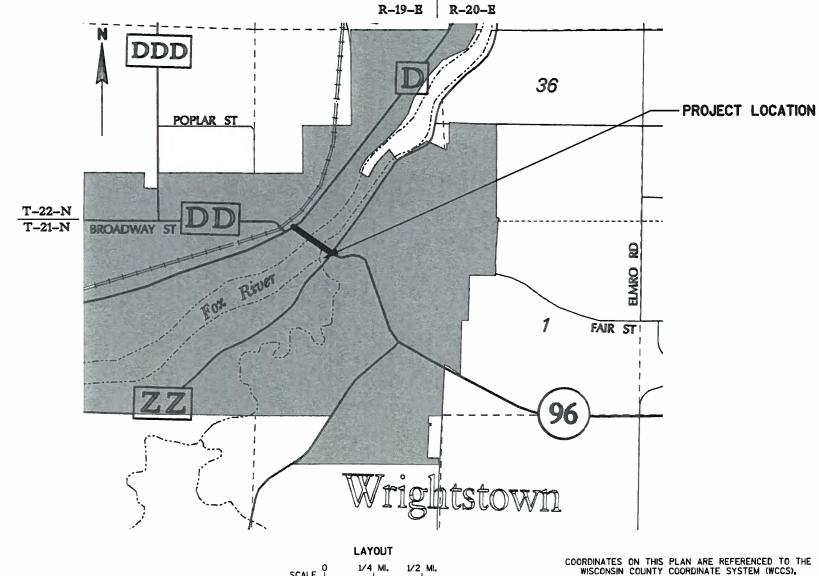
# **STATE OF WISCONSIN** DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

# **VILLAGE OF WRIGHTSTOWN**

**STH 96** 

STATE PROJECT NUMBER 4075-28-73



TOTAL NET LENGTH OF CENTERLINE = 0.000

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS).

APPROVED FOR THE DEPARTMENT BROWN COUNTY, NAD 1983 (91)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (91)

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2014074 4075-28-73



# STATE OF WISCONSIN

DEPARTMENT	UF	TRANSPORTATION
PREPARED BY		
Surveyor .		WISDOT
Designer .		MNNI ASSOCIATES, INC
Project Manager .		A. FULCER
Regional Examiner .		
Regional Supervisor.		D. SEGERSTROM
C.O. Examiner .		

DATE: 10/17/2013

**FOX RIVER BRIDGE B05-381** 

**BROWN COUNTY** 

UTILITIES	
	MITCONICINI PUBLIC CERVICE COPPORATION
ELECTRIC	WISCONSIN PUBLIC SERVICE CORPORATION 2850 SOUTH ASHLAND AVENUE
	GREEN BAY, WI 54304
	RANDY D. STEIER
	TEL: 920-617-5167
	MOBILE: 920-655-1596 EMAIL: rdsteier@wisconsinpublicservice.com
EMERGENCY	
CONTACT	TEL: 1-800-450-7240
GAS	WISCONSIN PUBLIC SERVICE CORPORATION
	2850 SOUTH ASHLAND AVENUE
	GREEN BAY, WI 54304
	TERRY LUTTENEGGER
	TEL: 920-617-5129
	MOBILE: 920-639-3964
EMERGENCY	WPSC GAS 24-HOUR EMERGENCY SERVICE
CONTACT	TEL: 1-800-450-7280
WATER	VILLAGE OF WRIGHTSTOWN PUBLIC WORKS AND UTILITIES
10 (1 2)(	101 WASHINGTON STREET
	WRIGHTSTOWN, WI 54180
	TRAVIS COENEN
	TEL: 920-532-00434
	MOBILE: 920-360-2118
	FAX: 920-532-0433
	EMAIL: tcoenen@wrightstown.us
SANITARY	VILLAGE OF MURICUITATIONAL PURILITA MORNAL AND LITTLITIES
· · · · · · · · · · · · · · · · · · ·	VILLAGE OF WRIGHTSTOWN PUBLIC WORKS AND UTILITIES
SEWER	101 WASHINGTON STREET
	WRIGHTSTOWN, WI 54180 TRAVIS COENEN
	TEL: 920-532-00434
	MOBILE: 920-660-2118 FAX: 920-532-0433
	EMAIL: tcoenen@wrightstown.us
TEL EDUONE	AT&T WISCONSIN
TELEPHONE	
	205 SOUTH JEFFERSON STREET
	GREEN BAY, WI 54301
	ERIC ADAIR
	TEL: 920-433-4155
	MOBILE: 920-433-4155
	EMAIL: az9216@att.com
CABLE	TIME WARNER CABLE
	3520 EAST DESTINATION DRIVE
	APPLETON, WI 54915
	VINCE ALBIN
	TEL: 920-831-9249
	MOBILE: 920-378-0444
	FAX: 920-749-1154
	EMAIL: vince.albin@twcable.com

**OTHER CONTACTS** 

DNR LIAISON JIM DOPERALSKI

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

2984 SHAWANO AVENUE GREEN BAY, WI 54313 TEL: (920) 662-5119

EMAIL: james.doperalski@wisconsin.gov

BROWN COUNTY HIGHWAY DEPARTMENT BROWN COUNTY

2198 GLENDALE AVE

GREEN BAY, WI 54305 PAUL VAN NOIE, PUBLIC WORKS DIRECTOR

TEL: 920-662-2161

**DESIGNER** KRIS OLSON, PROJECT MANAGER

> OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914

TEL: (920) 830-6123

GENERAL NOTES

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT LIMITS, HOWEVER IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS. THE UTILITY CONTACTS PROVIDED HEREON ARE FOR UTILITIES LOCATED IN AREAS ADJACENT TO THE PROJECT LIMITS AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE FOLLOWING DESCRIBES THE SOIL CONDITIONS IN SOIL

OF BROWN, CLAY, TRACE SILT, OVERLYING

OF FINE TO COURSE, SAND AND GRAVEL, SOME

OF BROWN, SOFT, HIGH PLASTICITY, CLAY,

OF BROWN, HARD TO VERY HARD, SILT, SOME

OF BROWN, MEDIUM HARD, SILT, SOME CLAY,

BORINGS PERFORMED WITHIN THE FILL AREA:

SILT, OVERLYING

OVERLYING

LIMESTONE BEDROCK

• 0.5'

1.0'

• 2.0'

31.5'

19.5'

4.0'

OF TOPSOIL, OVERLYING

WITH SILT SEAMS, OVERLYING

GRAVEL, SOME SAND, OVERLYING

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE PRIOR TO THE START OF WORK.

BENCHMARK LOCATIONS IN THE PLANS ARE APPROXIMATE AND SHOULD BE VERIFIED.

ONLY TREES OR SHRUBS WITHIN THE CLEARING AND GRUBBING LIMITS ARE TO BE REMOVED.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM BORROW AND COMMON EXCAVATION. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.15 FOR BORROW.

ALL DISTURBED AREAS NOT OTHERWISE SURFACED ARE TO BE RESTORED PER THE EROSION CONTROL PLAN.

WETLAND AREAS ARE SHOWN ON THE PLANS. LIMIT CONSTRUCTION ACTIVITIES TO WORK WITHIN THE SLOPE INTERCEPTS IN THE WETLAND AREAS. DO NOT STOCKPILE OR STORE MATERIAL IN WETLAND AREAS.

THE EROSION CONTROL FEATURES SHOWN IN THE PLAN ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

AREAS OF FILL IN THIS PLAN ARE THE CORE OF THE FUTURE EAST ABUTMENT FILL. NO BOULDERS ARE PERMITTED IN THE FILL THAT WOULD INTERFERE WITH FUTURE ABUTMENT CONSTRUCTION.

STRIP TOPSOIL FROM THE ENTIRE FILL AREA. RESTORE AREAS AS SHOWN ON THE EROSION CONTROL PLAN. STOCKPILE EXTRA TOPSOIL IN LOCATION SHOWN ON EROSION CONTROL PLAN OR AS DIRECTED BY THE ENGINEER FOR USE IN THE FUTURE BRIDGE PROJECT.

Dial or (800) 242-8511

www.DiggersHotline.com

PROJECT NO: 4075-28-73

HWY: STH 96

COUNTY: BROWN

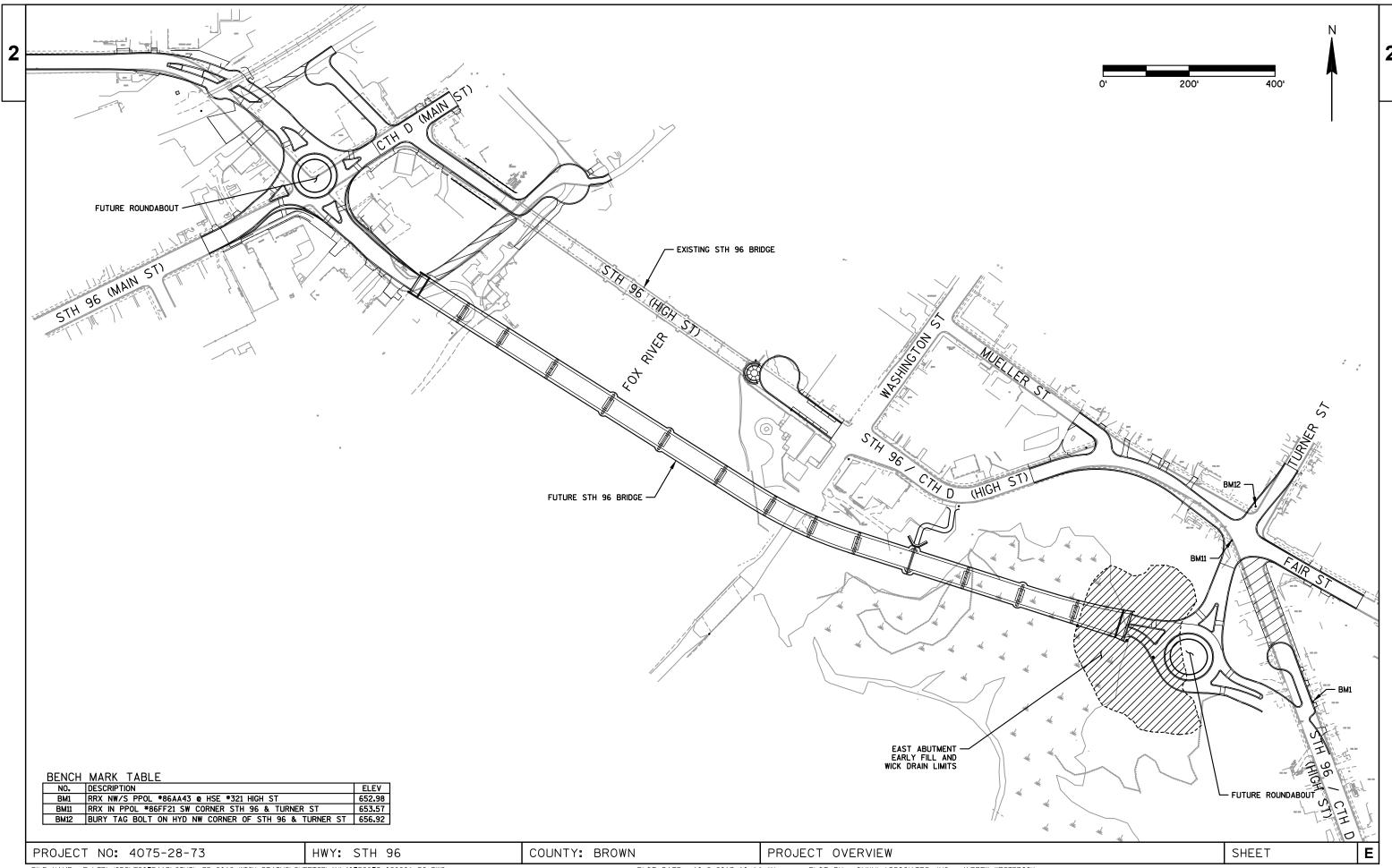
**GENERAL NOTES** 

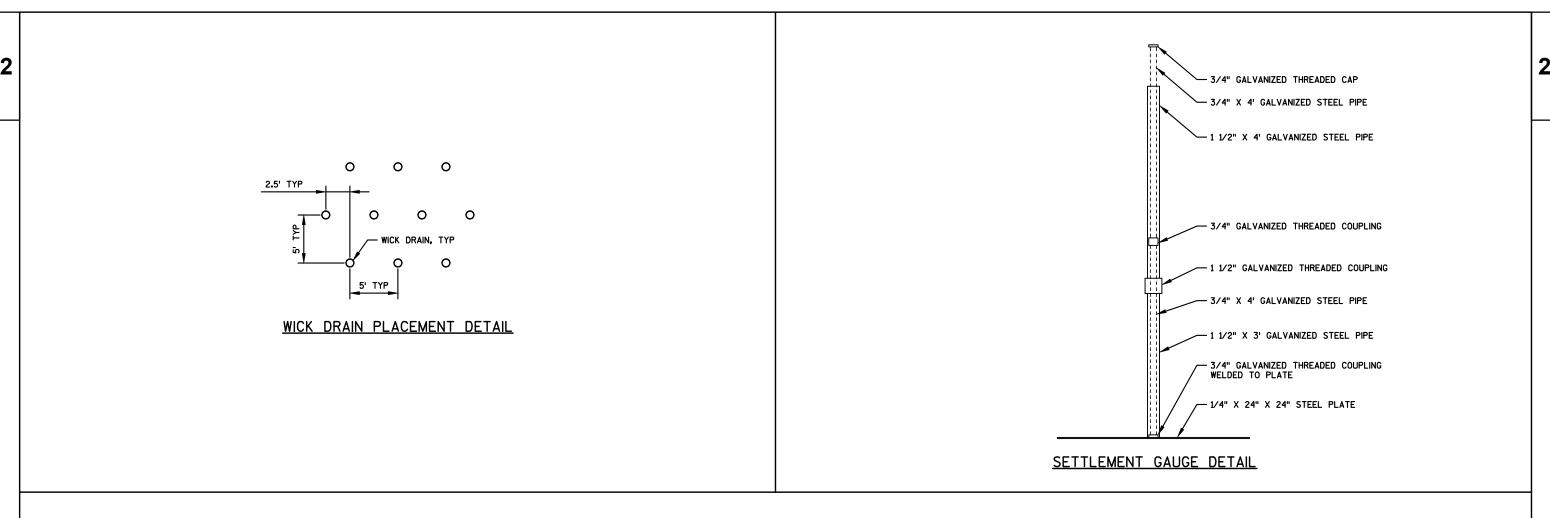
SHEET:

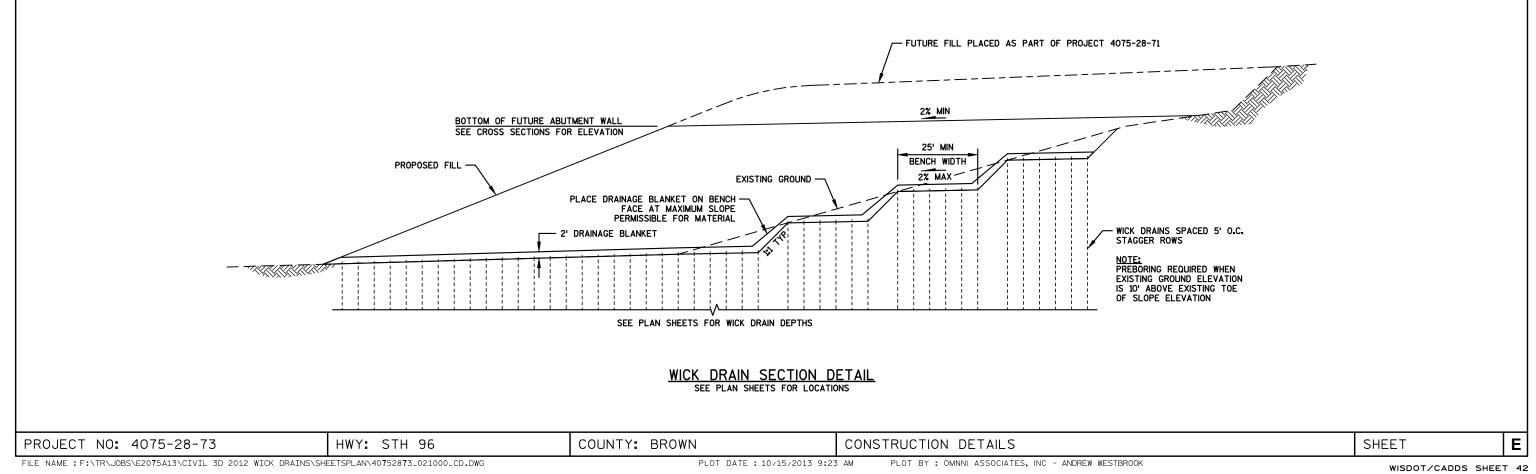
ORIGINATOR: OMNNI ASSOCIATES

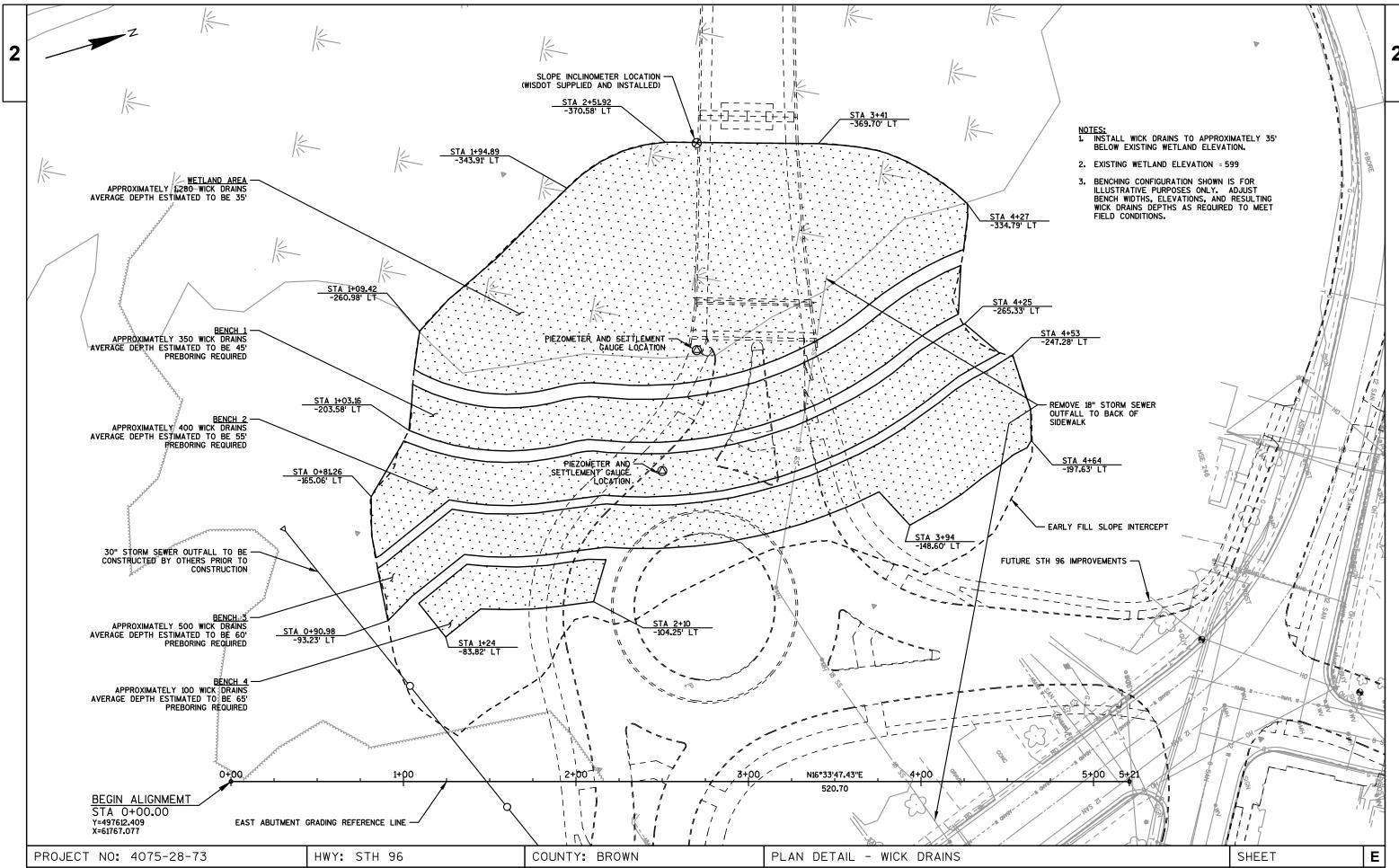
REV. DATE:

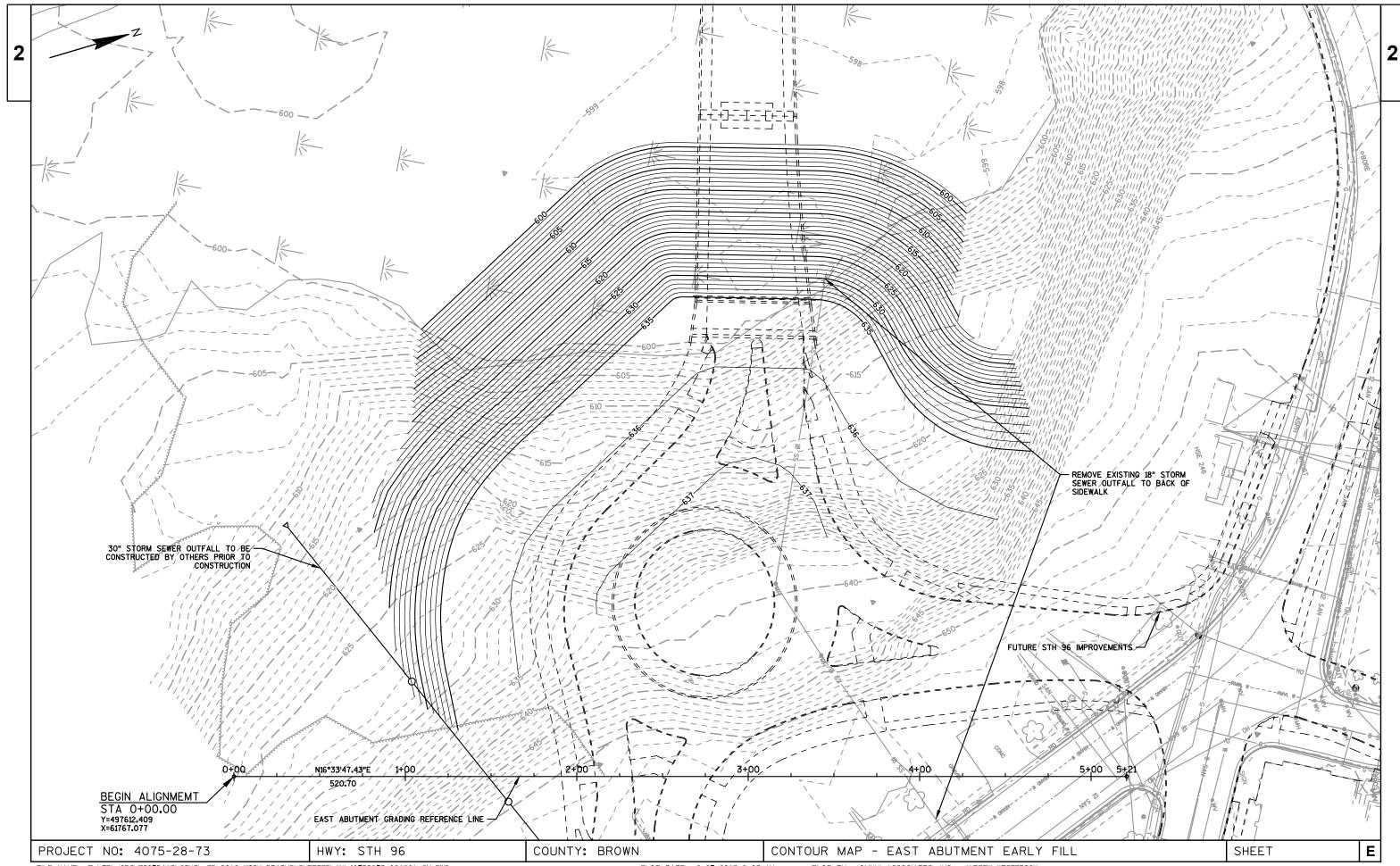
PRINT DATE: October 2, 2013

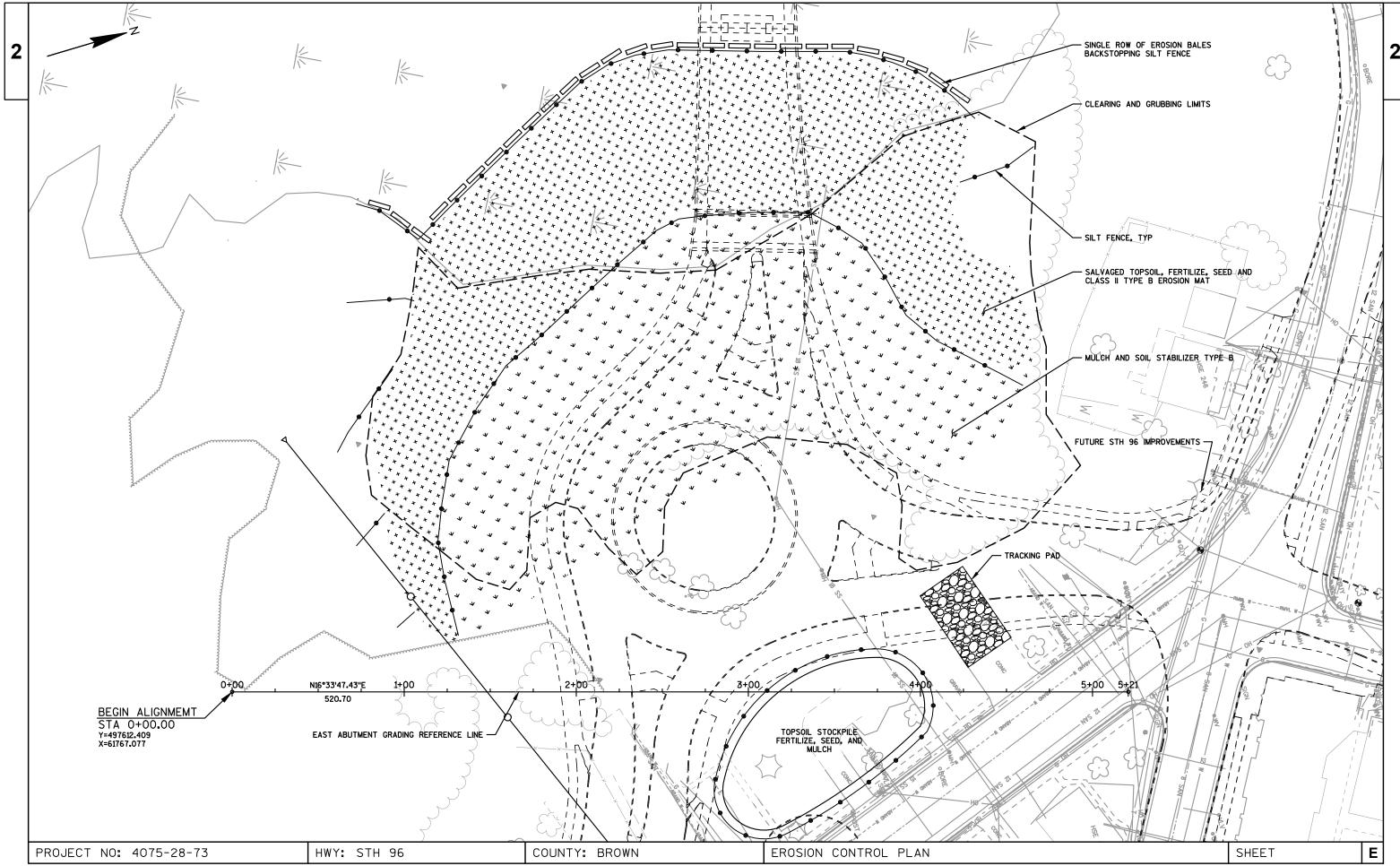












DATE 09 LINE	JAN14	EST	IMATE	E OFQUAN	T I T I E S 4075-28-73
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0115	CLEARI NG	ACRE	1.500	1.500
0020 0030	201. 0215 204. 0245	GRUBBING REMOVING STORM SEWER (SIZE) 01. 18-INCH	ACRE LF	1. 500 350. 000	1. 500 350. 000
0040	205. 0100	EXCAVATION COMMON	CY	5, 400. 000	5, 400. 000
0050	208. 0100	BORROW	CY	46, 100. 000	46, 100. 000
0060	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 4075-28-73	EACH	1. 000	1.000
0070	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000
0800	625. 0500	SALVAGED TOPSOIL	SY	6, 000. 000	6, 000. 000
0090	627. 0200 628. 1104	MULCHI NG EROSI ON BALES	SY EACH	13, 000. 000 215. 000	13, 000. 000 215. 000
0100	028.1104	ERUSION BALES			
0110	628. 1504	SILT FENCE	LF	1, 900. 000	1, 900. 000
0120	628. 1520 628. 1905	SILT FENCE MAINTENANCE MOBILIZATIONS EROSION CONTROL	LF EACH	1, 900. 000 1. 000	1, 900. 000 1. 000
0130 0140	628. 1910	MOBILIZATIONS EROSION CONTROL  MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1. 000	1. 000
0150	628. 2023	EROSION MAT CLASS II TYPE B	SY	5, 900. 000	5, 900. 000
	(00 (510	COLL OTABLLIZED TYPE D			
0160 0170	628. 6510 628. 7560	SOIL STABILIZER TYPE B TRACKING PADS	ACRE EACH	0. 280 1. 000	0. 280 1. 000
0170	629. 0210	FERTILIZER TYPE B	CWT	4. 000	4. 000
0190	630. 0120	SEEDING MIXTURE NO. 20	LB	190. 000	190. 000
0200	630. 0200	SEEDING TEMPORARY	LB	90.000	90.000
0210	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 4075-28-73	EACH	1. 000	1. 000
0220	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	150.000	150.000
0230	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	300.000	300.000
0240	643. 0900 650. 9910	TRAFFIC CONTROL SIGNS CONSTRUCTION STAKING SUPPLEMENTAL	DAY LS	300. 000 1. 000	300. 000 1. 000
0250	030. 9910	CONTROL (PROJECT) 01. 4075-28-73	L3	1.000	1.000
0260	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	400.000	400.000
0270	ASP. 1T0A	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	300.000	300.000
		00/HR		220.000	220.000
0280	ASP. 1TOG	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	600.000	600.000
0290	SPV. 0035	SPECIAL O1. DRAINAGE BLANKET	CY	5, 530. 000	5, 530. 000
0300	SPV. 0060	SPECIAL O1. VIBRATING WIRE PIEZOMETER INSTRUMENTATION SYSTEM DELIVERED	EACH	4. 000	4. 000
0310	SPV. 0060	SPECIAL 02. SETTLEMENT GAUGE	EACH	2.000	2. 000
0310	SPV. 0060 SPV. 0075	SPECIAL 02. SETTLEMENT GAUGE SPECIAL 01. STREET SWEEPING	HRS	25. 000	25. 000 25. 000
0330	SPV. 0090	SPECIAL 01. WICK DRAIN	LF	44, 800. 000	44, 800. 000
0340	SPV. 0090	SPECIAL 02. PRE-BORED WICK DRAIN	LF	74, 250. 000	74, 250. 000

CLEARING AN	CLEARING AND GRUBBING							
	201.0115	201.0215						
	CLEARING	GRUBBING						
LOCATION	ACRE	ACRE						
CATEGORY 0010								
EAST ABUTMENT FILL	1.5	1.5						
PROJECT TOTALS	1.5	1.5						

REMOVING STORM	<u>SEWER</u>
	204.0245
	18-INCH
LOCATION	LF
CATEGORY 0010	
EAST ABUTMENT FILL	350

PROJECT TOTAL

350

	205.0100						208.0100	
LOCATION	COMMON EXCAVATION	AVAILABLE MATERIAL SHRINKAGE FACTOR	DRAINAGE BLANKET VOLUME	FILL	REMAINING FILL (UNEXPANDED)	EXPANDED FILL FILL FACTOR	BORROW	
		0.7				1.15		
	CY	CY	CY	CY	CY	CY	CY	
PROJECT 4337-11-71 CATEGORY 0010								
EAST ABUTMENT FILL	5,400*	3,780	5,530	49,400**	40,090***	46,100	46,100	

**EARTHWORK SUMMARY** 

5,400\* 46,100

#### **EROSION CONTROL AND LANDSCAPING**

	625.0500	627.0200	628.1104	628.1504	628.1520	628.2023	628.1905	628.1910	628.6510	628.7560	629.0210	630.0120	630.0200
	SALVAGED TOPSOIL	MULCHING	EROSION BALES	SILT FENCE	SILT FENCE MAINTENANCE	CLASS TT	MOBILIZATIONS EROSION CONTROL	MOBILIZATIONS EMERGENCY EROSION CONTROL	SOIL STABILIZER TYPE B	TRACKING PADS	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING TEMPORARY
LOCATION	SY	SY	EA	LF	LF	SY	EA	EA	ACRE	EA	CWT	LB	LB
CATEGORY 0010													
EAST ABUTMENT FILL	4,700	10,400	170	1,500	1,500	4,700	1		.22*	1	3	150	70
UNDISTRIBURTED	1,300	2,600	45	400	400	1,200		1	0.06		1	40	20
PROJECT TOTALS	6,000	13,000	215	1,900	1,900	5,900	1	1	0.28	1	4	190	90

#### TRAFFIC CONTROL

		643.	0420	643.	0705	643.0900	
	DURATION		CADES	WARNING LIGHTS TYPE A		SIGNS	
LOCATION	DAYS	QTY	DAYS	QTY	DAYS	QTY	DAYS
CATEGORY 0010							
EAST ABUTMENT FILL	75	2	150	4	300	4	300
	PROJECT TOTAL	_S	150		300		300

#### **CONSTRUCTION STAKING**

	650.9910	650.9920	
	SUPPLEMENTAL	SLOPE	
	CONTOL	STAKES	
LOCATION	LS	LF	
CATEGORY 0010			
EAST ABUTMENT FILL	1	400	
PROJECT TOTALS	1	400	

#### **WICK DRAIN ITEMS**

	SPV.0035.01	SPV.0090.01	SPV.0090.02
	DRAINAGE BLANKET	WICK DRAIN	PRE-BORED WICK DRAIN
LOCATION	CY	LF	LF
CATEGORY 0010			
EAST ABUTMENT FILL	5,530	44,800	74,250
PROJECT TOTALS	5,530	44,800	74,250

#### VIBRATING WIRE PIEZOMETER INSTRUMENTATION SYSTEM **DELIVERED**

		SPV.0060.01	ESTIMATED
			TIP
LOCATION	STATION OFFSET	EA	ELEVATION
CATEGORY 0010			
EAST ABUTMENT FILL	2+70, 250' LT	1	579 FT
EAST ABUTMENT FILL	2+70, 250' LT	1	569 FT
EAST ABUTMENT FILL	2+50, 180' LT	1	590 FT
EAST ABUTMENT FILL	2+50, 180' LT	1	580 FT

#### SETTLEMENT GAUGE

		SPV.0060.02
LOCATION	STATION OFFSET	EA
CATEGORY 0010		
EAST ABUTMENT FILL	2+70, 250' LT	1
EAST ABUTMENT FILL	2+50, 180' LT	1
	PROJECT TOTAL	2

#### STREET SWEEPING

	SPV.0075.01
LOCATION	HRS
CATEGORY 0010	
EAST ABUTMENT FILL	25

#### PROJECT TOTAL

#### **SLOPE INCLINOMETER**

		****	ESTIMATED
			TIP
LOCATION	STATION OFFSET	EA	ELEVATION
CATEGORY 0010			
EAST ABUTMENT FILL	2+70, 370' LT	1	545 FT

1 PROJECT TOTAL 25

> \*\*\*\* NOTE: QUANTITY FOR INFORMATIONAL PURPOSES ONLY. SLOPE INCLINOMETER TO BE FURNISHED AND INSTALLED BY WISDOT

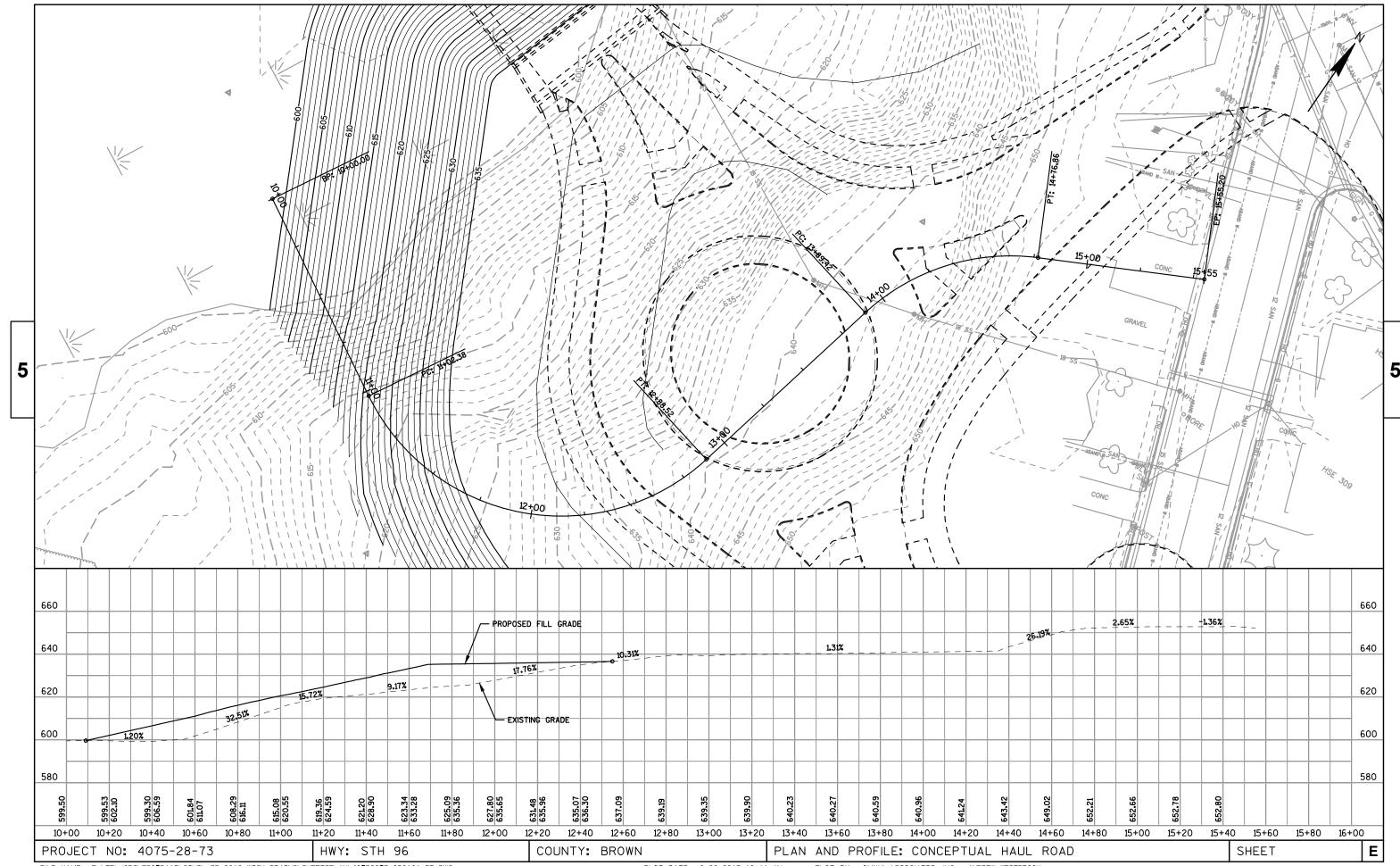
PROJECT NO: 4075-28-73 HWY: STH 96 **COUNTY: BROWN** SUMMARY OF QUANTITIES SHEET NO:

PROJECT TOTAL

<sup>\*</sup>ESTIMATED VOLUME OF MATERIAL EXCAVATED FOR WICK DRAIN BENCHES

<sup>\*\*</sup>FILL VOLUME INCLUDING ADDITIONAL VOLUME EXCAVATED FOR BENCHES

<sup>\*\*\*</sup>UNADJUSTED REMAINING VOLUME TO BE FILLED AFTER BENCH CUT MATERIAL IS USED AND DRAINAGE BLANKET PLACED



### Standard Detail Drawing List

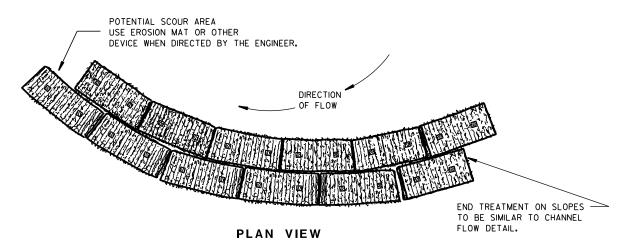
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE TRACKING PAD TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

08E08-03 08E09-06 08E14-01 15D29-03

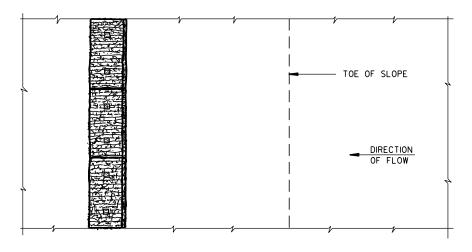
#### **GENERAL NOTES**

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.

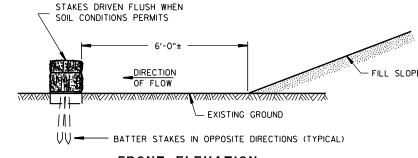
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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## TYPICAL APPLICATION OF SILT FENCE

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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

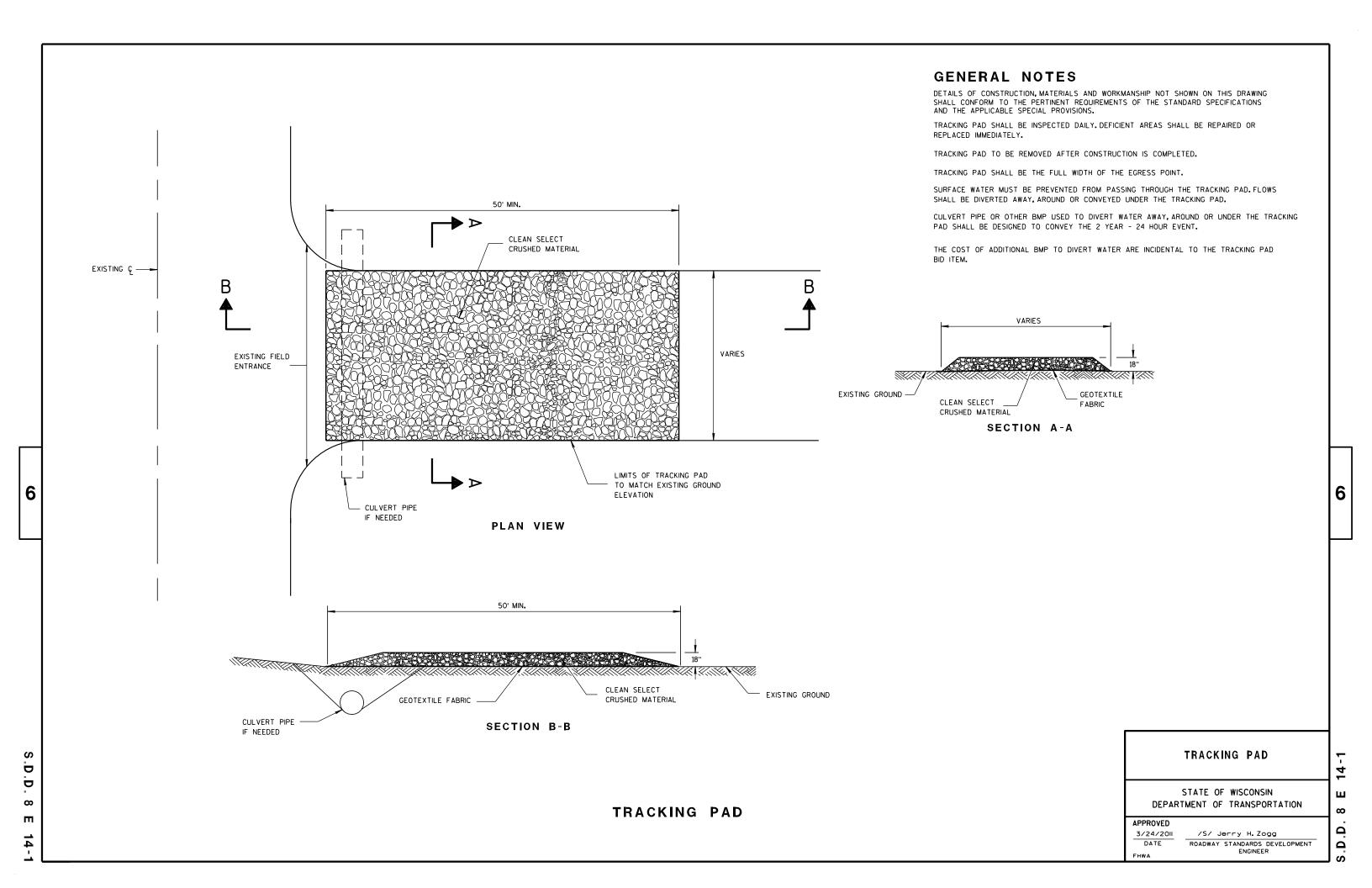
(WHEN REQUIRED BY THE ENGINEER)

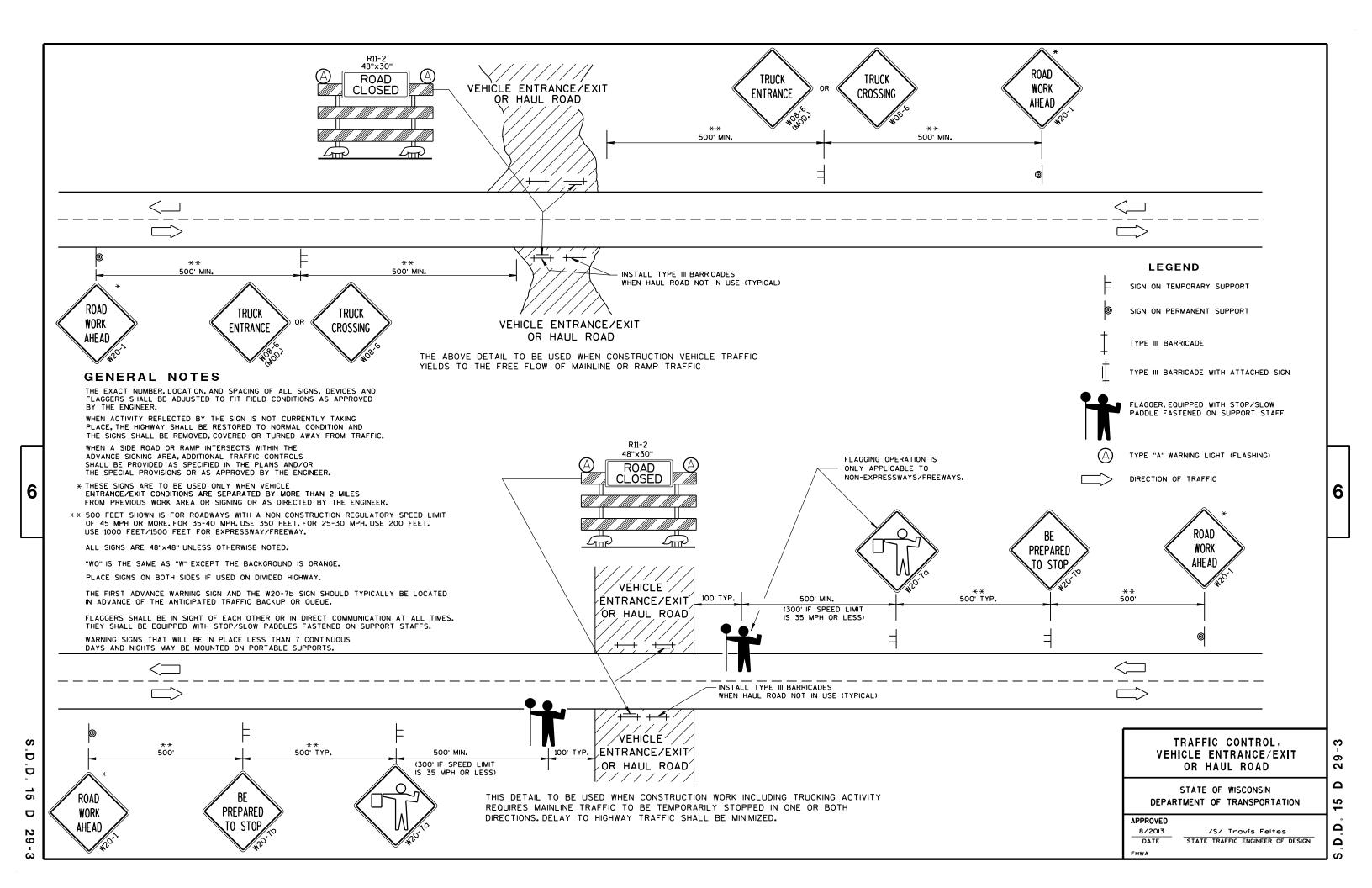


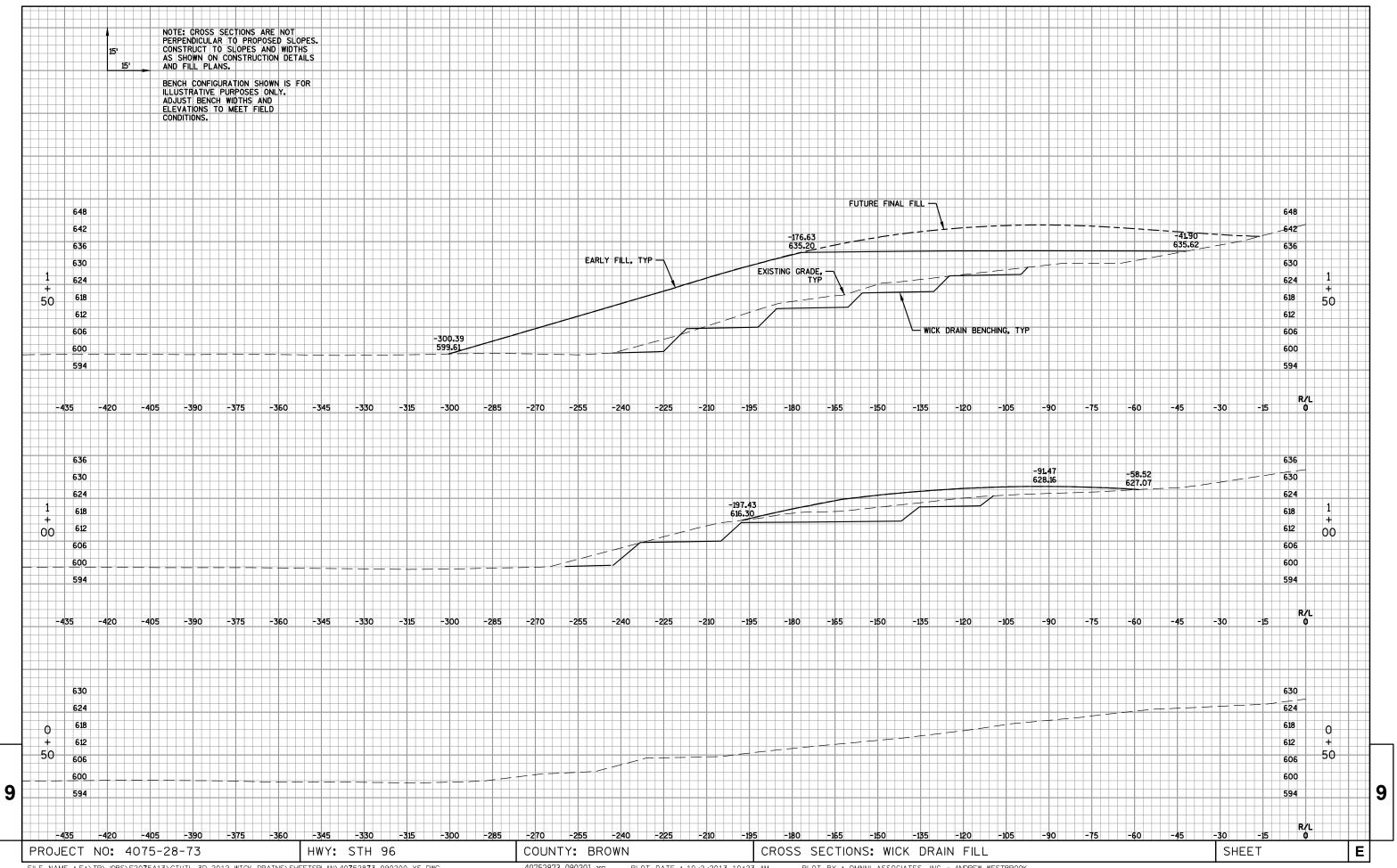
SILT FENCE

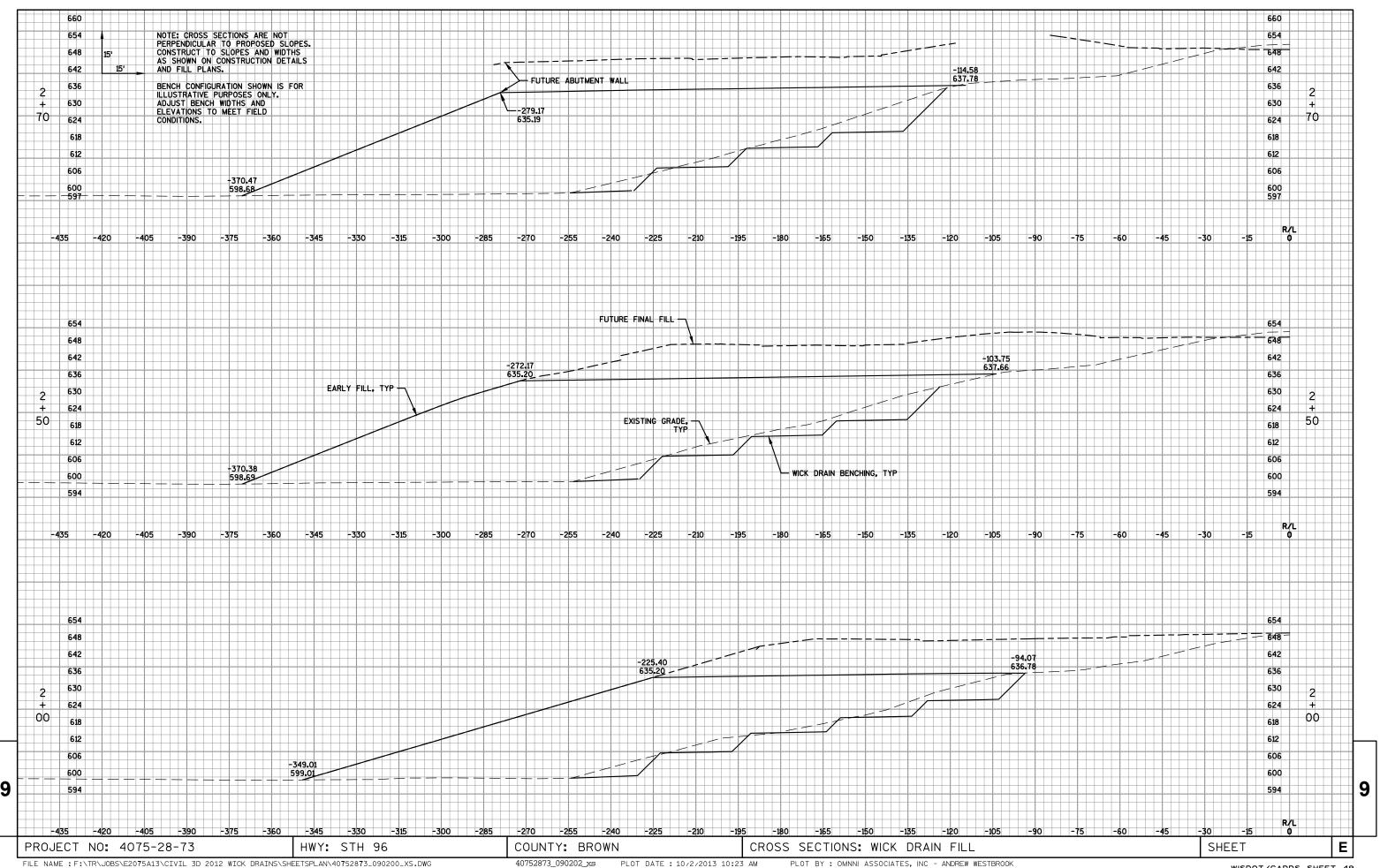
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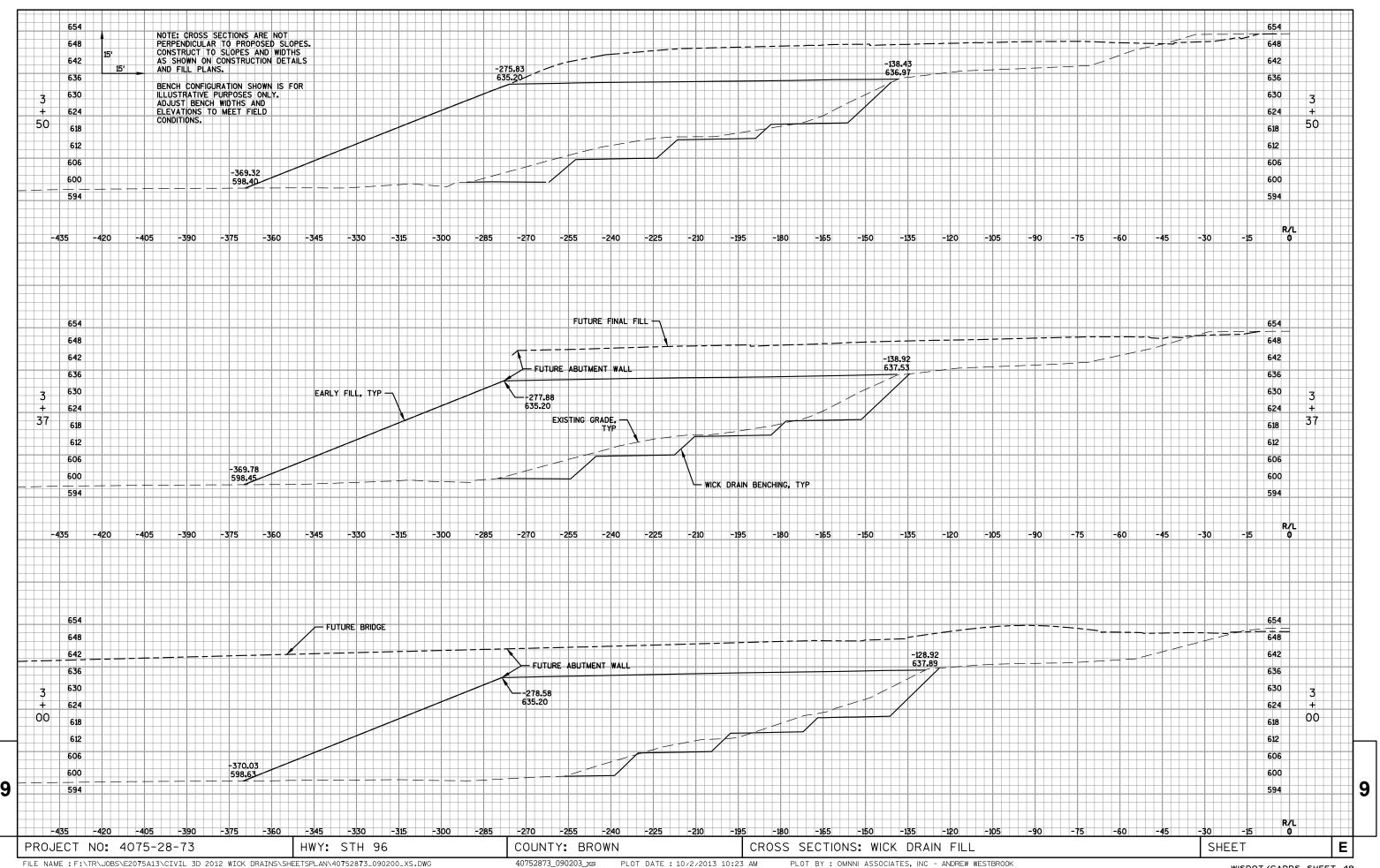
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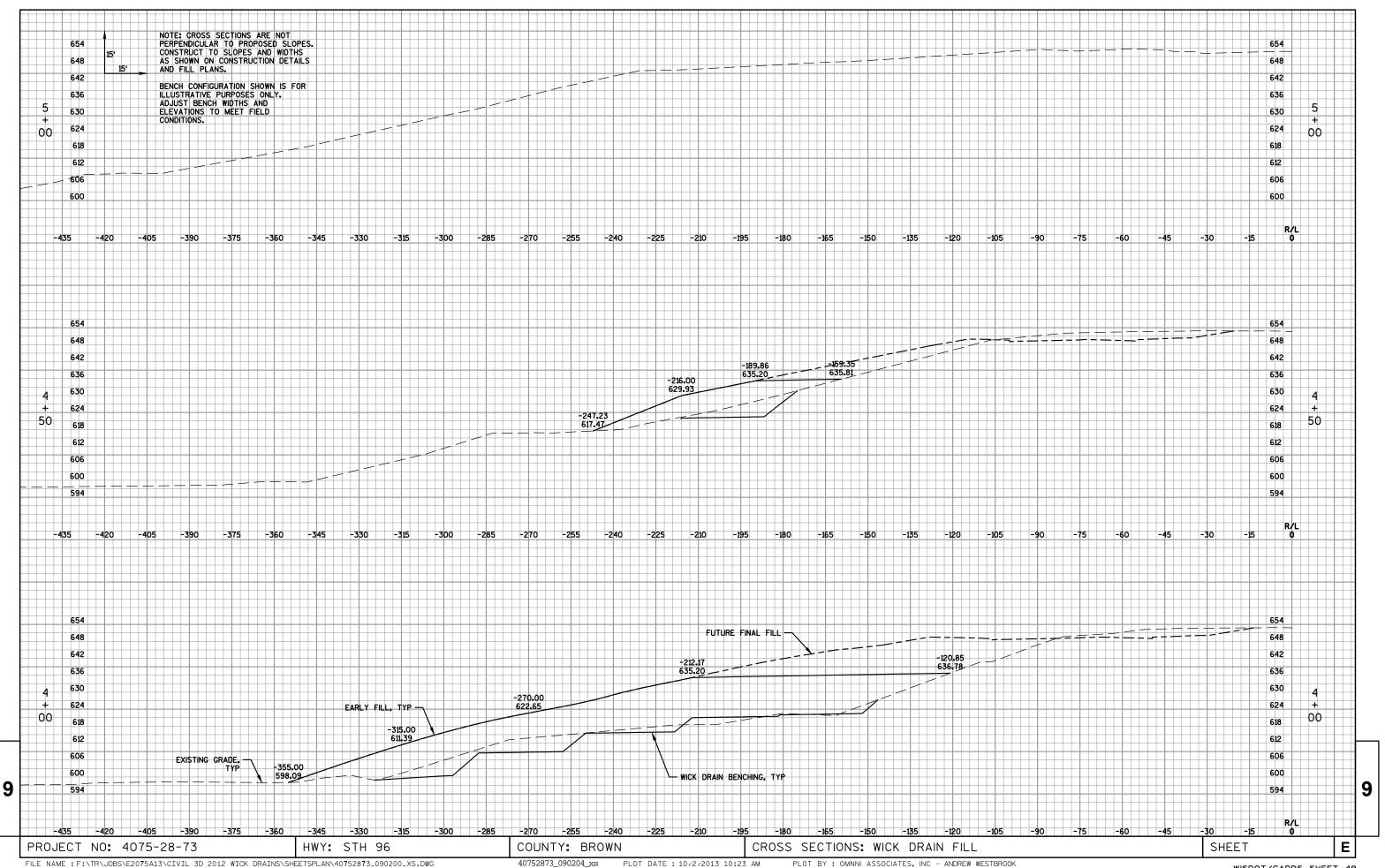


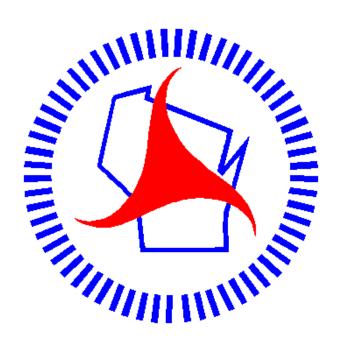












# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov