



**DATE:** March 30, 2023

**FROM:** Elkhart County Highway Department  
610 Steury Avenue  
Goshen, Indiana 46528

**TO:** Prospective Bidders

**RE:** **ADDENDUM No. 1** to the Bidding Documents for  
County Road 20 Access Road Project

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This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Please acknowledge receipt of the Addendum in the space provided in the Bid Form. Failure to do so may subject the Bidder to disqualification.



**PROJECT PLAN DRAWINGS:**

The initial release of the Project Plan Drawing Set erroneously omitted Plan Sheet C100, "Topographic Survey Maintenance of Traffic Layout." Attached to this Addendum No. 1 is the complete Project Plan Drawing Set, including Plan Sheet C100 and all other Plan Sheets of the Project Plan Drawing Set to replace the previously released incomplete Project Plan Drawing Set.

**END OF ADDENDUM NO. 1**

**CONTRACTOR SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM AS PART OF  
THE SUBMITTED BID DOCUMENTS**

# ELKHART COUNTY, INDIANA

## CR 20 ACCESS ROAD

### COUNTY BOARD OF COMMISSIONERS

**BRADLEY D. ROGERS, PRESIDENT**

**SUZANNE M. WEIRWICK, VICE PRESIDENT**

**BOB BARNES, MEMBER**

### COUNTY ADMINISTRATOR

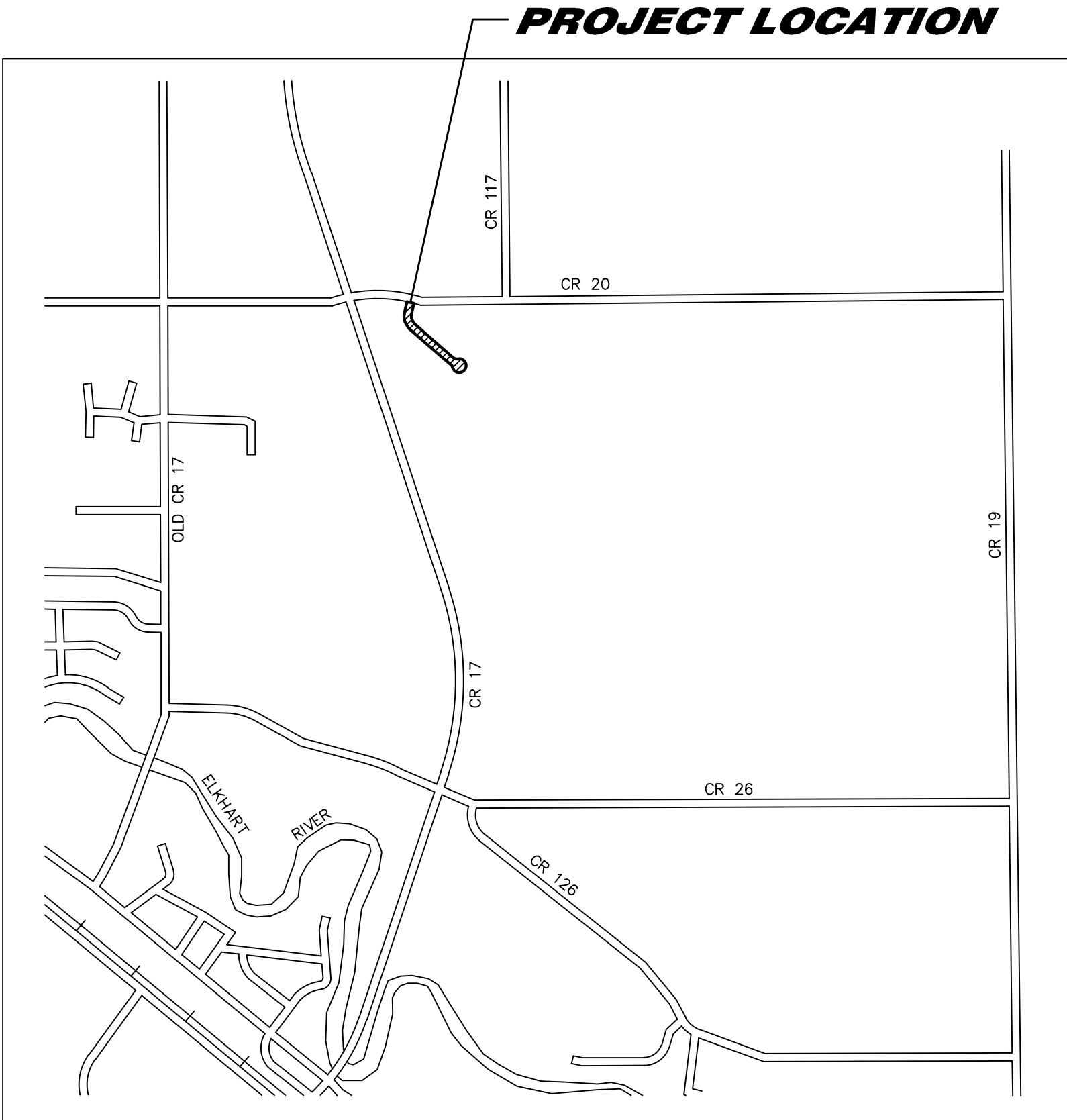
**T. JEFFERY TAYLOR**

### COUNTY HIGHWAY MANAGER

**CHARLIE MCKENZIE, P.E.**

### UTILITIES

ELECTRIC	NIPSCO 300 E. KERCHER ROAD GOSHEN, IN 46526 CLIFF SIDWELL 1-574-535-0215
GAS	NIPSCO 370 S 100 E LAGRANGE, IN 46761 JOSEPH HARTMAN 1-260-463-3999
GAS	TRUNKLINE GAS (ENERGY TRANSFER) CARL SHIDLER 1-574-298-9010 CHRIS KRUEGER 1-574-298-0868
TELEPHONE	FRONTIER (VERIZON) 24373 COUNTY ROAD 45 ELKHART, IN 46516 ROBIN BRANSON 1-574-875-3789
CABLE TELEVISION	COMCAST 1920 MCKINLEY AVENUE MISHAWAKA, IN 46545 JAY CASTELLO 1-574-532-2324
UTILITY LOCATE	INDIANA 811 1-800-382-5544



## VICINITY MAP - PORTION OF ELKHART COUNTY

### IMPORTANT UNDERGROUND UTILITY NOTES

EXISTING UNDERGROUND UTILITIES SHOWN IN THESE PLANS ARE BASED ON EVIDENCE OF ABOVE GROUND FEATURES, ON LOCATIONS MARKED IN THE FIELD BY OTHERS, OR ON RECORD INFORMATION PROVIDED BY UTILITY COMPANIES. PIPE INVERT ELEVATIONS WERE MEASURED WITHOUT ENTERING CONFINED SPACES. NO EXCAVATION SHOULD OCCUR WITHOUT NOTIFICATION OF APPROPRIATE AGENCIES AND UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF PIPE INVERT ELEVATIONS AND UTILITY LOCATIONS, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS ARE DISCOVERED.

### GENERAL NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES, CONTRACTOR SHALL CALL 1-800-382-5544 A MINIMUM OF THREE WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL INDIANA 811 PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE INDIANA 811 ALERT SYSTEM.

IF ANY ERRORS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

THE CONTRACTOR SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL GOVERNMENT, INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, AND THE INDIANA DEPARTMENT OF TRANSPORTATION.

THE CONTRACTORS SHALL MAKE WHATEVER SOIL BORINGS NECESSARY TO FULLY ACQUAINT THEMSELVES WITH CONDITIONS AS THEY EXIST SO THAT THEY MAY FULLY UNDERSTAND THE CONDITIONS WHICH MAY AFFECT THE COST OF THE WORK. FAILURE TO MAKE SUCH BORINGS OR ANY BORINGS MADE WHICH DO NOT PROVIDE A COMPLETE UNDERSTANDING OF THE CONDITIONS ENCOUNTERED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR CARRYING OUT ALL THE WORK TO COMPLETION AS SHOWN ON THE PLANS, OR AS SPECIFIED, AT THE PRICE SPECIFIED TO BE PAID FOR THE WORK. WHERE THE RESULTS OF ANY TEST BORINGS ARE SHOWN ON THE PLANS, THE INFORMATION IS NOT GUARANTEED AND THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE CHARACTER OF MATERIALS THAT MAY BE ENCOUNTERED.

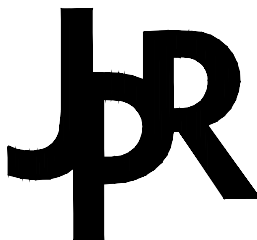
THE CONTRACTOR SHALL FOLLOW THE IOSHA REGULATIONS 29 C.F.R. 1926 SUBPART P, FOR TRENCH SAFETY SYSTEMS. THE COST FOR TRENCH SAFETY SYSTEMS SHALL BE MERGED INTO THE PAY ITEM OF THE PRINCIPAL WORK WITH WHICH THE SAFETY SYSTEMS ARE ASSOCIATED. THE CONTRACTOR SHALL OTHERWISE BE RESPONSIBLE FOR SAFETY IN REGARD TO THE PROJECT'S CONSTRUCTION.

### PLAN INDEX

COVER	G101
TOPOGRAPHIC SURVEY, MAINTENANCE OF TRAFFIC PROPOSED LAYOUT	C100
TYPICAL ROADWAY SECTION	C101
PLAN & PROFILE - LINE 'A' STA. 9+00 TO STA. 13+50	C201
PLAN & PROFILE - LINE 'A' STA. 9+00 TO STA. 13+50	C202
PLAN & PROFILE - LINE 'A' STA. 9+00 TO STA. 13+50	C203
EROSION CONTROL PLAN	C301



THE 811 LOGO IS A REGISTERED  
TRADEMARK OF THE ICA



Elkhart, IN  
p: 574.293.7762

South Bend, IN  
p: 574.232.4388

Fort Wayne, IN  
p: 260.422.2522

*Elkhart County*  
HIGHWAY DEPARTMENT

610 STEURY AVE, GOSHEN, IN 46528  
PH: 574-534-9394  
FAX: 574-533-7103  
WWW.ELKCOHWY.ORG



*Mark E. Wilson*  
MARK E. WILSON PE 80328

3/23/23  
DATE

COVERING DESIGN

REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA

REV	DESCRIPTION	DATE
1	REVISIONS PER TRUNKLINE GAS COMMENTS	3/23/23
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

CR 20 ACCESS ROAD

TITLE PAGE

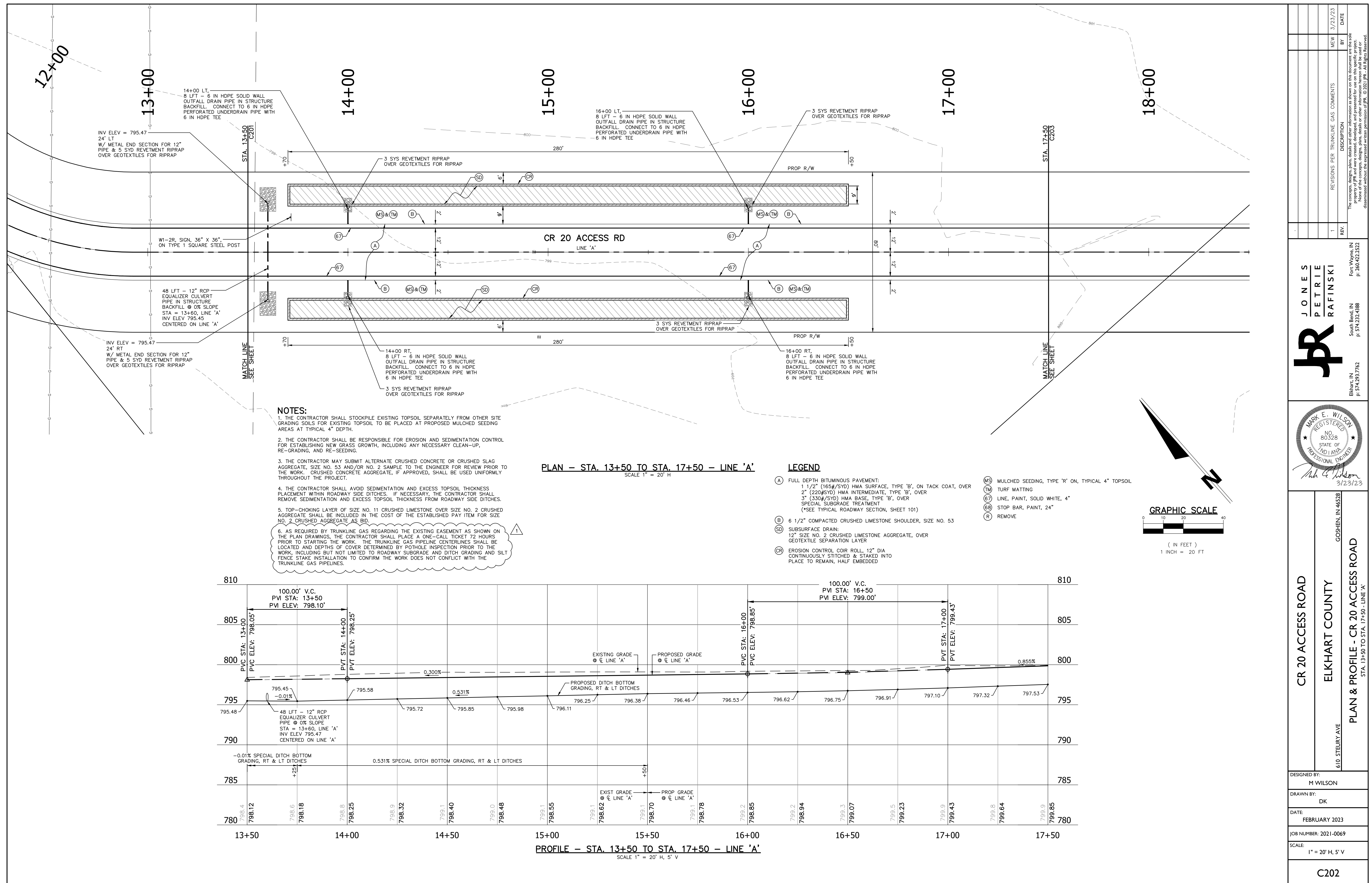
DESIGNED: _____ MEW _____	HORIZONTAL SCALE NONE
CHECKED: _____	VERTICAL SCALE NONE
DRAWN: _____ DK _____	SHEET G101
CHECKED: _____ MEW _____	PROJECT CR 20 ACCESS ROAD

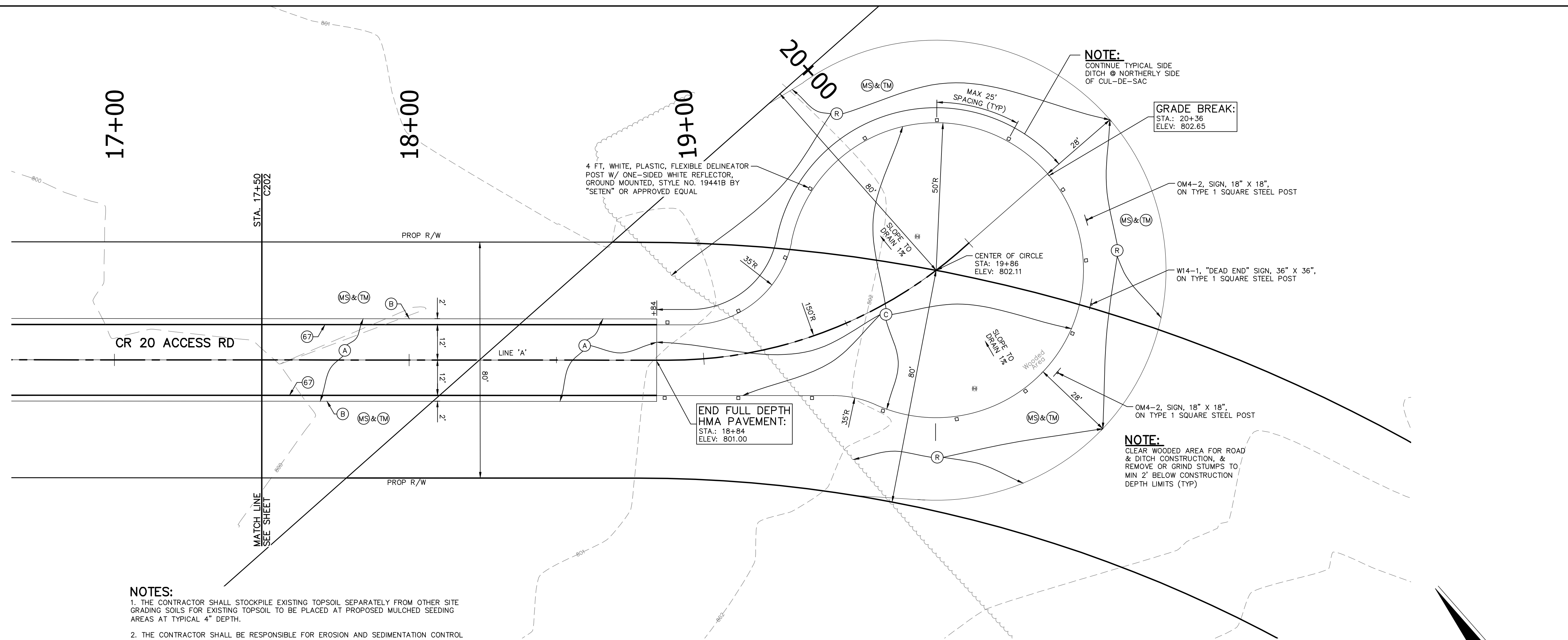














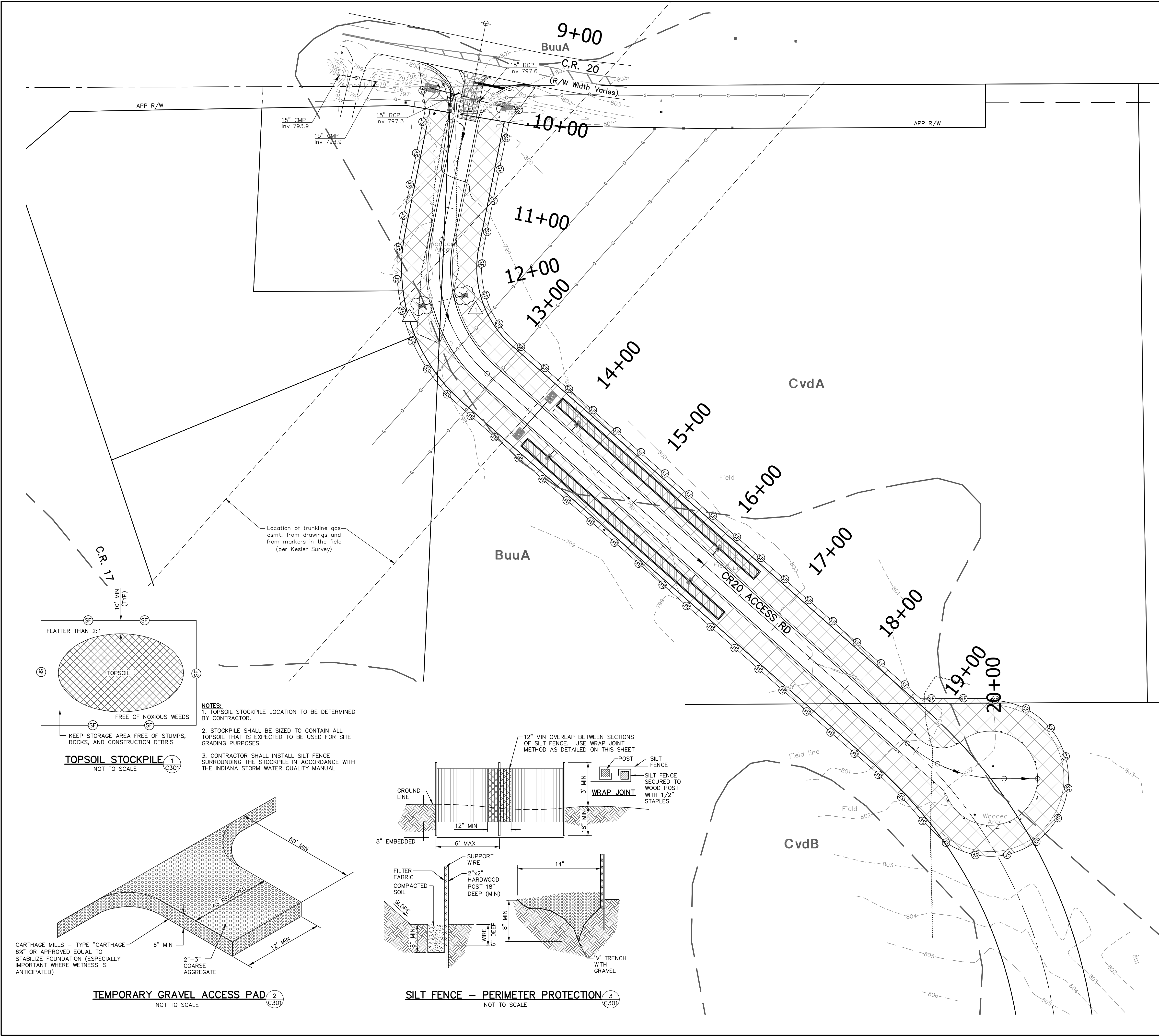


Table 1 - 100-YEAR REQUIRED RETENTION VOLUME				
Side-Ditch				
#REF!	CR 20 Access Road		Date:	1/20/2023
County:	Elkhart		Job No.:	2022-0315
City/Town:	Goshen		Project Manager:	Mark E. Wilson, P.E.
Inputs:				
Surface		Runoff Coefficient	Area (SFT) Developed	Area (SFT) Undeveloped
Permeable Surface		0.3	64,846	
Impermeable Surface		0.9	33,660	
TOTAL			98,506	
Storm Sewer Outfall				
Outflow Rate (cfs)				
Storm Duration (T <sub>c</sub> ) (hr)	10 year (I) (in/hr)	100 year (I) (in/hr)	Inflow Rate I = cIA (cfs)	Outflow Rate O (cfs)
0.083	6.96	9.61	10.98	10.9751
0.167	5.37	7.24	8.27	8.2685
0.25	4.40	5.99	6.84	6.8409
0.5	3.06	4.33	4.95	4.9451
1	1.95	2.89	3.30	3.3005
2	1.16	1.80	2.06	2.0557
3	0.829	1.29	1.47	1.4732
6	0.493	0.781	0.89	0.8919
12	0.28	0.443	0.51	0.5059
24	0.16	0.246	0.28	0.2809
Storage Rate ΔS = I - O (cfs)			Required Storage (Acre-feet) (ΔS)T <sub>c</sub>	
			12	
			0.7059	
			0.1151	
			0.1425	
			0.2065	
			0.2750	
			0.3426	
			0.3683	
			0.4460	
			0.5059	
			0.5619	
Side Ditch Detention Storage Required			0.5619 Acre-ft	
			24,476 CFT	

CR 20 ACCESS ROAD SIDE DITCH RETENTION VOLUME PER SIDE DITCH						
STA.	DEPTH (FT)	TOP WIDTH (FT)	BOTTOM WIDTH (FT)	AREA (SFT)	AVG AREA (SFT)	VOLUME (CFT)
10+25	0	0	0	0	16.09	125
11+50	1.85	24.8	10	32.19	31.94	200
13+50	1.83	24.64	10	31.69	21.79	300
16+50	0.88	17.04	10	11.9	5.95	100
17+50	0	0	0	0		595
GRAND TOTAL VOLUME FOR 2 SIDE DITCHES OF EQUAL VOLUME = 2 X 15,531 CFT = 31,062 (0.7131 ACRE-FT)					TOTAL PER SIDE DITCH	15,531

**SOILS LEGEND**

BuuA BROOKSTON LOAM, 0 TO 1% SLOPES

CvdA CROSIER LOAM, 0 TO 1% SLOPES

CvdB CROSIER LOAM, 1 TO 4% SLOPES

**EROSION CONTROL LEGEND**

TURF MATTING AND MULCHED SEEDING, TYPE R ON 4" TOPSOIL

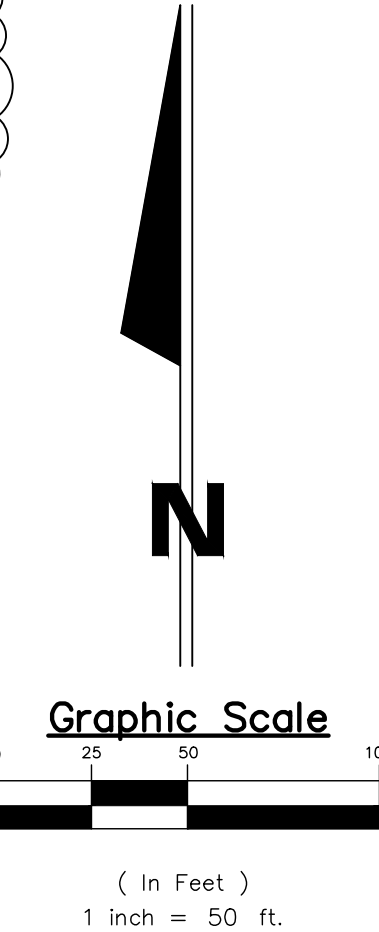
SILT FENCE

STANDARD EROSION CONTROL GRAVEL ENTRANCE PAD

**NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING OF STANDARD SOIL STOCKPILES AS NEEDED PER EROSION CONTROL DETAILS. SOIL STOCKPILES SHALL NOT BE LOCATED WITHIN THE TRUNKLINE GAS UTILITY EASEMENT INDICATED ON THE PLAN VIEW OF THIS SHEET.

2. AS REQUIRED BY TRUNKLINE GAS REGARDING THE EXISTING EASEMENT AS SHOWN ON THE PLAN DRAWINGS, THE CONTRACTOR SHALL PLACE A ONE-CALL TICKET 72 HOURS PRIOR TO STARTING THE WORK. THE TRUNKLINE GAS PIPELINE CENTERLINES SHALL BE LOCATED AND DEPTHS OF COVER DETERMINED BY POT HOLE INSPECTION PRIOR TO THE WORK, INCLUDING BUT NOT LIMITED TO ROADWAY SUBGRADE AND DITCH GRADING AND SILT FENCE STAKE INSTALLATION TO CONFIRM THE WORK DOES NOT CONFLICT WITH THE TRUNKLINE GAS PIPELINES.



CR 20 ACCESS ROAD

ELKHART COUNTY

EROSION CONTROL PLAN

DESIGNED BY:

M WILSON

DRAWN BY:

DK

DATE:

FEBRUARY 2023

JOB NUMBER:

2021-0069

SCALE:

1"=50'

C301

610 STEURY AVE

GOSHEN, IN 46528

JONES

PETRIE

RAFINSKI

PR

MARK E. WILSON

REGISTERED

NO. 80528

STATE OF INDIANA

PROFESSIONAL ENGINEER

3/23/23

Elkhart, IN

P: 574.237.7462

Fort Wayne, IN

P: 260.422.2322

South Bend, IN

P: 574.232.4388

REV.

1

REVISIONS PER TRUNKLINE GAS COMMENTS

DESCRIPTION

DATE

3/23/23

MEW

BY