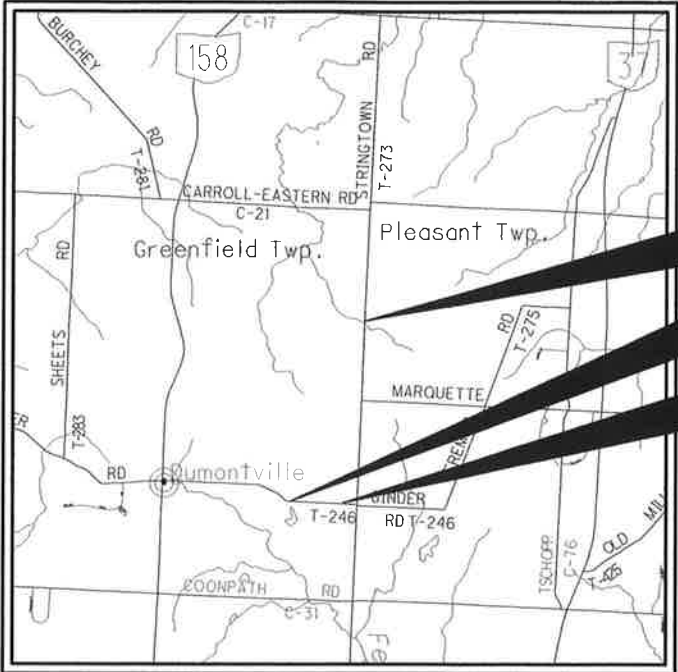


FAIRFIELD COUNTY ENGINEER

FAI-TR273-3.315

FAI-TR246-2.207

FAI-TR246-2.656



LOCATION MAP

LATITUDE: 39° 47' 30" LONGITUDE: 82° 35' 48" - TR273-3.315

LATITUDE: 39° 46' 33" LONGITUDE: 82° 36' 13" - TR246-2.207

LATITUDE: 39° 46' 32" LONGITUDE: 82° 35' 52" - TR246-2.656



PORTION TO BE IMPROVED legend: INTERSTATE HIGHWAY, FEDERAL ROUTES, STATE ROUTES, COUNTY & TOWNSHIP ROADS, OTHER ROADS.

DESIGN DESIGNATION

Table with design parameters: CURRENT ADT (2024) 598, DESIGN YEAR ADT (2044) 688, DESIGN SPEED 55, LEGAL SPEED 55, DESIGN FUNCTIONAL CLASSIFICATION.

DESIGN EXCEPTIONS

NA



PLAN PREPARED BY: FAIRFIELD COUNTY ENGINEER'S OFFICE, 3026 W. FAIR AVENUE, LANCASTER, OHIO 43130, JEREMIAH D. UPP, P.E., P.S., FAIRFIELD COUNTY ENGINEER

ENGINEER'S SEAL: WILLIAM G. MARAVY 71811 REGISTERED PROFESSIONAL ENGINEER. SIGNED: William Maravy, DATE: 2-6-25

GREENFIELD AND PLEASANT TOWNSHIP STRINGTOWN ROAD GINDER ROAD CULVERT REPLACEMENT PROJECTS

INDEX OF SHEETS:

Table listing sheet titles and numbers: TITLE SHEET (1), TYPICAL SECTION (2), GENERAL NOTES (3-4), GENERAL SUMMARY (5), SUBSUMMARY (6), PLAN AND PROFILE (7), CROSS SECTIONS (8-14), CULVERT DETAIL (15), T.R. 246-2.207 PLAN (16), T.R. 246-2.656 PLAN (17), RIGHT OF WAY PLAT (18).

Table with columns: STANDARD CONSTRUCTION DRAWINGS, SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS. Includes drawing codes like BP-3.1, MGS-1.1, MGS-2.1, MGS-4.1, HW-2.1, DM-4.2, DM-4.4, MT-101.6.

PROJECT DESCRIPTION: PROJECT WILL REPLACE EXISTING CULVERTS WITH NEW CULVERTS. PROJECTS INCLUDE SHOULDER WIDENING, DITCH RELOCATION AND GUARDRAIL INSTALLATION.

FEDERAL PROJECT NUMBER

NONE

RAILROAD INVOLVEMENT

NONE

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVED THESE PLANS AND DECLARE THAT THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY.

FAIRFIELD COUNTY ENGINEER: [Signature], DATE: 2-13-2025

WE THE TRUSTEES OF GREENFIELD TOWNSHIP IN FORMAL SESSION, HEREBY APPROVE THESE PLANS:

TRUSTEE: [Signature], DATE: 2/12/25

TRUSTEE: [Signature], DATE: 2-12-2025

TRUSTEE: [Signature], DATE: 2-17-25

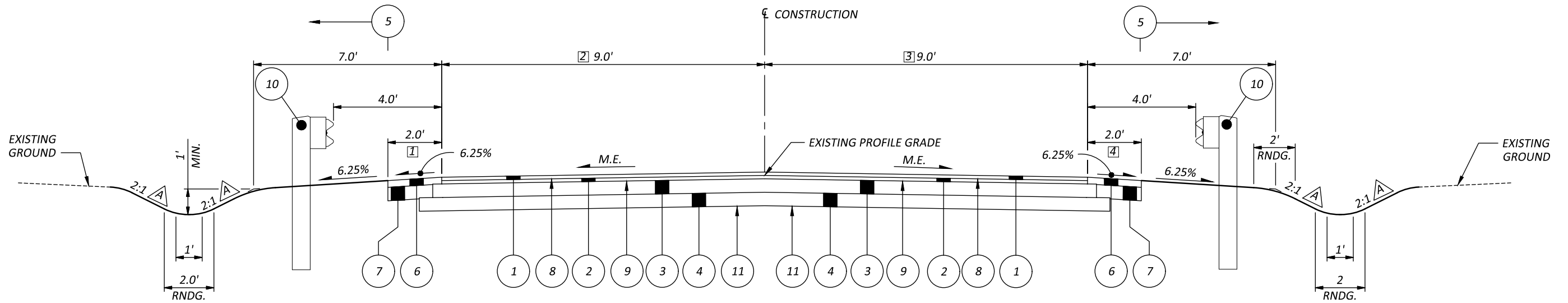
TITLE SHEET



Table with project details: DESIGN AGENCY (Fairfield County Engineer), DESIGNER (JAA), REVIEWER (JAA), PROJECT ID (WGM 11-13-24), PROJECT ID (TR273-3.315), SHEET (1), TOTAL (18).

FAI-TR273-3.315

J:\Township\Greenfield\Various Culverts 2024\GRE-TR273-3.315\Design\Plans\Sheets\T273-3.315\_GT001.dwg 06-Feb-25 9:47 AM



**NORMAL SECTION T.R.273-3.315**

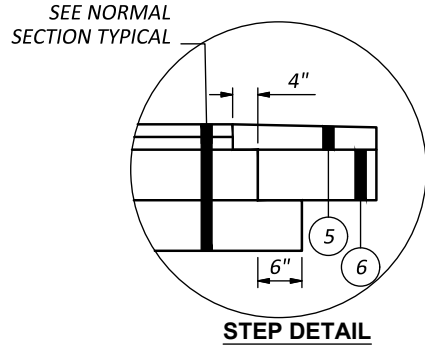
SECTION APPLIES:  
STA. 174+55.00 TO STA. 175+55.00 = 100 FT.

LEFT SIDE		RIGHT SIDE			
1	VAR. 1.2' @ STA. 174+55.00 TO 2.0' @ STA. 174+80.00 2.0' FROM STA. 174+80.00 TO STA. 175+30.00 VAR. 2.0' @ STA. 175+30.00 TO 1.4' @ STA. 175+55.00	= 25.00 FT = 50.00 FT = 25.00 FT	3	VAR. 7.9' @ STA. 174+55.00 TO 9.0' @ STA. 174+80.00 9.0' FROM STA. 174+80.00 TO STA. 175+30.00 VAR. 9.0' @ STA. 175+30.00 TO 7.5' @ STA. 175+55.00	= 25.00 FT = 50.00 FT = 25.00 FT
2	VAR. 8.1' @ STA. 174+55.00 TO 9.0' @ STA. 174+80.00 9.0' FROM STA. 174+80.00 TO STA. 175+30.00 VAR. 9.0' @ STA. 175+30.00 TO 8.3' @ STA. 175+55.00	= 25.00 FT = 50.00 FT = 25.00 FT	4	VAR. 1.0' @ STA. 174+55.00 TO 2.0' @ STA. 174+80.00 2.0' FROM STA. 174+80.00 TO STA. 175+30.00 VAR. 2.0' @ STA. 175+30.00 TO 1.5' @ STA. 175+55.00	= 25.00 FT = 50.00 FT = 25.00 FT

**A** OR AS SHOWN IN CROSS SECTIONS  
M.E. MATCH EXISTING

**LEGEND**

- 1 ITEM 441 - 1 1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22 (449)
- 2 ITEM 441 - 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2 (449)
- 3 ITEM 301 - 6" ASPHALT CONCRETE BASE
- 4 ITEM 304 - 6" AGGREGATE BASE
- 5 ITEM 659 - SEEDING AND MULCHING
- 6 ITEM 411 - STABILIZED CRUSHED AGGREGATE (T=3), AS PER PLAN
- 7 ITEM 304 - 6" AGGREGATE BASE (BERM)
- 8 ITEM 407 - NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE (0.05 GAL/SY)
- 9 ITEM 407 - NON-TRACKING TACK COAT FOR BASE COURSE (0.075 GAL/SY)
- 10 ITEM 606 - GUARDRAIL, TYPE MGS
- 11 ITEM 204 - SUBGRADE COMPACTION
- A EXISTING ASPHALT PAVEMENT (T 12"±)



DESIGN AGENCY	
DESIGNER	JAA
REVIEWER	
PROJECT ID	WGM11-13-24
	TR273-3.315
SHEET	TOTAL
2	18



**ROUNDING**

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICALS SECTIONS APPLIES TO ALL CROSS SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

**UTILITIES**

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT OUPS (800-362-2764) FOR EACH LOCATION WHERE DIGGING IS REQUIRED OR IN LOCATIONS WHERE POSTS ARE TO BE DRIVE4N. NON-MEMBER UTILITY COMPANIES MUS BE CALLED DIRECTLY BY THE CONTRACTOR.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

SOUTH CENTRAL POWER COMPANY  
ATTN:ZACHERY A. REED, P.E.  
DIRECTOR OF ENGINEERING  
720 MILL PARK DR  
LANCASTER, OH 43130  
O: 740-689-6150  
C: 740-415-4274  
zreed@southcentralpower.com

AT&T ZANESVILLE OFFICE  
ATTN: KEVIN GLASSER  
160 N. 6TH ST.  
ZANESVILLE, OHIO 43701  
C: 614-208-9312  
Kg1963@att.com

SOUTH CENTRAL POWER COMPANY  
ATTN: MIKE CHALFAN  
720 MILL PARK DR  
LANCASTER, OHIO 43130  
O: 740-689-6168  
C: 614-563-9628  
chalfan@southcentralpower.com

NORTHEAST GAS OF OHIO  
ATTN: MARK CALLAHAN  
5640 LANCASTER-NEWARK ROAD NE  
PLEASANTVILLE, OHIO 43148  
O: 740-400-4312  
C: 740-808-6040  
mcallahan@neogas.com

AT&T ZANESVILLE OFFICE  
BARRETT TAMASOVICH  
160 N. 6TH ST.  
ZANESVILLE, OHIO 43701  
O: 740-454-3552  
C: 740-319-8995  
BT2178@ATT.COM

BRANDON DELONG  
CONSTRUCTION COORDINATOR II  
CHARTER COMMUNICATIONS  
737 HOWARD ST  
ZANESVILLE, OH 43701  
CELL (740) 819-0966  
Brandon.DeLong@Charter.com

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC DEVICES AS REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**ENGINEER DEFINED**

DULY AUTHORIZED AGENT OF THE FAIRFIELD COUNTY ENGINEER ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR PURPOSES OF ENGINEERING ADMINISTRATION OF THE CONTRACT.

**CONTRACTOR DEFINED**

THE INDIVIDUAL, FIRM OR CORPORATION CONTRACTING WITH THE FAIRFIELD COUNTY ENGINEER FOR PERFORMANCE OF PRESCRIBED WORK, ACTING DIRECTLY OR THROUGH A DULY AUTHORIZED REPRESENTATIVE AND QUALIFIED UNDER THE PROVISIONS OF 5525.02 TO 5525.09, OF THE ORC, AND ANY AMENDMENTS THERETO.

**CONTINGENCY QUANTITIES**

THE CONTRACTOR SHALL NOT ORDER MATERIAL OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

**SURVEYING PARAMETER**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON FCEO PROJECT. SEE SHEET \_\_\_ OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**PROJECT CONTROL:**

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID12A

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83(2011)  
ELLIPSOID: GRS80  
COORDINATE SYSTEM: OHIO STATE PLANE SOUTH

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

**ROUNDING**

THE ROUNDING AT SLOPE BREAK POINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THROUGH OTHERWISE SHOWN.

**ITEM 201 - CLEARING AND GRUBBING**

ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING , EXCEPT THOSE OTHERWISE DESIGNATED BY THE ENGINEER. LANDOWNERS SHALL BE ALLOWED TO SALVAGE THE WOOD FROM TREES BEING REMOVED FROM THEIR PROPERTY. TREES DESIGNATED AS BEING SALVAGED FOR WOOD, SHALL BE CUT ABOVE THE BASE AND PLACED OUTSIDE OF THE RIGHT-OF-WAY.

**ITEM 204 - UNSUITABLE FOUNDATION SOILS**

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF PROPOSED ROADBED OR STRUCTURES, THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. THE LOCATIONS AND DIMENSIONS WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONSTRINGENCY QUANTIFIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE AS DIRECTED BY THE ENGINEER.

204 - EXCAVATION OF SUBGRADE	50 CY
204 - GRANULAR MATERIAL, TYPE F, APP	50 CY
204 - GEOTEXTILE FABRIC	100 CY

**ITEM 204 - PROOF ROLLING, AS PER PLAN**

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY UTILIZED A FULLY LOADED DUMP TRUCK, APPROVED BY THE ENGINEER, IN LIEU OF THE PROOF ROLLER REQUIREMENTS LISTED IN THE SPECIFICATION 204.06 A-G. ALL OTHER REQUIREMENTS PER 204.06 SHALL APPLY.

ITEM 204 - PROOF ROLLING	1 HR.
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**ITEM 407 - NON-TRACKING TACK COAT (BASE AND INTERMEDIATE COURSE)**

THE RATE OF APPLICATION OF THE 407 NON-TRACKING TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY THE PLAN QUANTITIES INDICATE AND AVERAGE APPLICATION RATE OF:

407 - NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE	0.005 GAL/SY
407 - NON-TRACKING TACK COAT FOR BASE COURSE	0.075 GAL/SY

**ITEM 411 - STABILIZED CRUSHED AGGREGATE, AS PER PLAN**

THE CRUSHED MATERIAL PROVIDED FOR THIS ITEM SHALL BE CRUSHED LIMESTONE.

**ITEM 441 - ASPHALT CONCRETE**

THE HOT MIX ASPHALT MIXTURE SHALL BE COMPOSED OF AGGREGATE, ASPHALT BINDER, AND MODIFIER (WHERE SPECIFIED) MEETING OHIO DEPARTMENT OF TRANSPORTATION (ODOT) REQUIREMENTS. PRIOR TO PRODUCING HOT MIX ASPHALT FOR THIS CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, A JOB MIX FORMULA (JMF) OR BITUMINOUS CONCRETE DATA SHEET.

THE JMF SHALL INCLUDE THE MIX TYPE PROPOSED FOR USE, AGGREGATE TYPE AND GRADATION, DESCRIPTION AND SOURCE OF MODIFIER (IF APPLICABLE), AND UNIT WEIGHT OF THE MIXTURE. THE JMF, OR DATA SHEET, SHALL HAVE PREVIOUSLY BEEN APPROVED FOR USE ON ODOT WORK.

**FARM DRAINS**

ALL FARM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION WILL EITHER BE REPAIRED OR PROVIDED WITH UNOBSTRUCTED OUTLETS.

EXISTING FARMS DRAINS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATION AND WHICH CROSS THE ROADWAY SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES SHALL BE OUTLETED INTO THE ROADWAY DITCH BY ITEM 611 CONDUIT, TYPE F. THE OPTIMUM OUTLET, INVERT ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS INTO THE LIMITS OF CONSTRUCTION SHALL BE INTERCEPTED BY ITEM 611 CONDUIT, TYPE F AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OR REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENT.

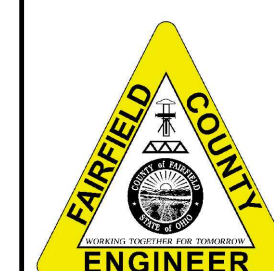
EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET AND OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1 EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS, TEES OR OTHER FITTINGS SHALL B INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 611 - 4" CONDUIT, TYPE F	50 FT.
ITEM 611 - 6" CONDUIT, TYPE F	50 FT.
ITEM 611 - 12" CONDUIT, TYPE D	50 FT.
ITEM 611 - 12" CONDUIT, TYPE F	50 FT.

GENERAL NOTES

DESIGN AGENCY



DESIGNER	JAA
REVIEWER	
PROJECT ID	WGM11-13-24
	TR273-3.315
SHEET	TOTAL
3	18

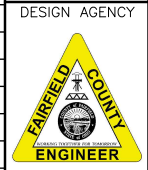






SHEET NUM.								PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	6	14	16	17									
												ROADWAY		
								201	11000	LS		CLEARING AND GRUBBING		
				200				202	23000	307	SY	PAVEMENT REMOVED		
				37				202	35200	109	FT	PIPE REMOVED, OVER 24"		
					58			203	10000	58	CY	EXCAVATION		
					145			203	20000	145	CY	EMBANKMENT		
	50							204	13000	50	CY	EXCAVATION OF SUBGRADE		
								204	30051	50	CY	GRANULAR MATERIAL, TYPE F, AS PER PLAN	3	
								204	50000	100	SY	GEOTEXTILE FABRIC	3	
								204	10000	213	SY	SUBGRADE COMPACTION		
								204	45000	1	HOUR	PROOF ROLLING	3	
								209	60200	3.5	STA	LINEAR GRADING		
								606	15050	200	FT	GUARDRAIL, TYPE MGS		
								606	25000	4	EACH	ANCHOR ASSEMBLY, TYPE A		
								659	10000	346	SY	SEEDING AND MULCHING		
												EROSION CONTROL		
								601	32100	34	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER FABRIC		
								601	32200	100	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER FABRIC		
								659	20000	0.05	TON	COMMERCIAL FERTILIZER		
								659	31000	0.12	ACRE	LIME		
								659	35000	3	MGAL	WATER		
								670	00710	120	SY	DITCH EROSION PROTECTION MAT, TYPE A		
								623	40000	1	EACH	MONUMENT ASSEMBLY REMOVED AND RESET		
								832	30000	400	EACH	EROSION CONTROL, PERIMETER FENCE	5	
												DRAINAGE		
								611	00406	50	FT	4" CONDUIT, TYPE F		
								611	01500	50	FT	6" CONDUIT, TYPE F		
								611	04900	50	FT	12" CONDUIT, TYPE D		
								611	05200	50	FT	12" CONDUIT, TYPE F		
								611	20700	56	FT	48" CONDUIT, TYPE A, 706.02		
								611	13200	40	FT	30" CONDUIT, TYPE A, 707.33		
								611	16200	40	FT	36" CONDUIT, TYPE A, 707.33		
								602	20000	2.5	CY	CONCRETE MASONRY		
												PAVEMENT		
								301	56000	52	CY	ASPHALT CONCRETE BASE, PG64-22, (449)		
								304	20000	70	CY	AGGREGATE BASE		
								407	20000	16	GAL	NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE		
								407	20000	20	GAL	NON-TRACKING TACK COAT FOR BASE COURSE		
								411	10001	7	CY	STABILIZED CRUSHED AGGREGATE, AS PER PLAN	3	
								441	70300	15	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)		
								441	70000	17	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22		
												INCIDENTALS		
								614	11000	LS		MAINTAINING TRAFFIC		
								623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
								624	10000	LS		MOBILIZATION		

GENERAL SUMMARY



DESIGN AGENCY  
 DESIGNER  
 JAA  
 REVIEWER  
 WGM 11-13-24  
 PROJECT ID  
 TR273-3.315  
 SHEET TOTAL  
 5 18

REF. NO.	SHEET NO.	STATION TO STATION		SIDE	202	202	606	606	611			670					
					PAVEMENT REMOVED SY	PIPE REMOVED, OVER 24" SY	GUARDRAIL TYPE MGS FT	ANCHOR ASSEMBLY, TYPE A EA	48" CONDUIT, TYPE A, 707.33 FT			DITCH EROSION PROTECTION MAT, TYPE A SY					
R1	7	174+55.00	175+55.00	LR/RT	200												
R2	7		175+03.09	LT/RT		37											
D1	15		175+03.09	LT/RT					56								
G1	7	174+30.00	175+80.00	LT			100	2									
G2	7	174+30.00	175+80.00	RT			100	2									
E1	7	174+00.00	174+95.00	LT								57					
E2	7	174+00.00	174+90.00	RT								48					
E3	7	175+13.00	175+37.00	RT								15					
E5	7	174+94.79	175+12.79	LT													
E6	7	174+95.00	175+13.00	RT													
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					200	37	200	4	56			120	0	0	0	0	0

**PAVEMENT CALCULATIONS**

\* CADD GENERATED AREA

**ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22**

\*2551 SF x 1.50" / 27 = **11 CY**

**ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)**

\*1751 SF x 1.75" / 27 = **10 CY**

**ITEM 301 - ASPHALT CONCRETE BASE**

\*1818 SF x 6" / 27 = **34 CY**

**ITEM 304 - AGGREGATE BASE**

\*1920 SF x 6" / 27 = **36 CY**

**ITEM 304 - AGGREGATE BASE (BERM)**

{\*180 SF (LT) + \*180 SF (RT)} x 6" / 27 = **7 CY**

**ITEM 407 NON-TRACKING TACK COAT (BASE COURSE)**

(\*1752 SF / 9) x 0.075 = **15 GAL**

**ITEM 407 NON-TRACKING TACK COAT (INTERMEDIATE COURSE)**

(\*1752 SF / 9) x 0.050 = **10 GAL**

**ITEM 411 STABILIZED CRUSHED AGGREGATE, AS PER PLAN**

{\*180 SF (LT) + \*180 SF (RT)} x 3" / 27 = **3 CY**

**ITEM 204 SUBGRADE COMPACTION**

\*1920 SF / 9 = **213 SY**

**ITEM 601 ROCK CHANNEL PROTECTION, TYPE B W/ FILTER FABRIC**

(\*180 SF + 180 SF) x 2.5 FT / 27 = **33.3 CY**

**ITEM 659 COMMERCIAL FERTILIZER**

\*5153 SF x (20 / 1000 SF) X (1 TON / 2000) = **0.05 TON**

**ITEM 659 LIME**

\*5153 SF x (1 SF/43560 AC) = **0.12 AC**

**ITEM 659 WATER**

\*5153 SF x (300 GAL / 1000 SF) x (1 MGAL/1000 GAL) x 2 = **3 MGAL**

DESIGN AGENCY



DESIGNER

JAA

REVIEWER

WGM11-13-24

PROJECT ID

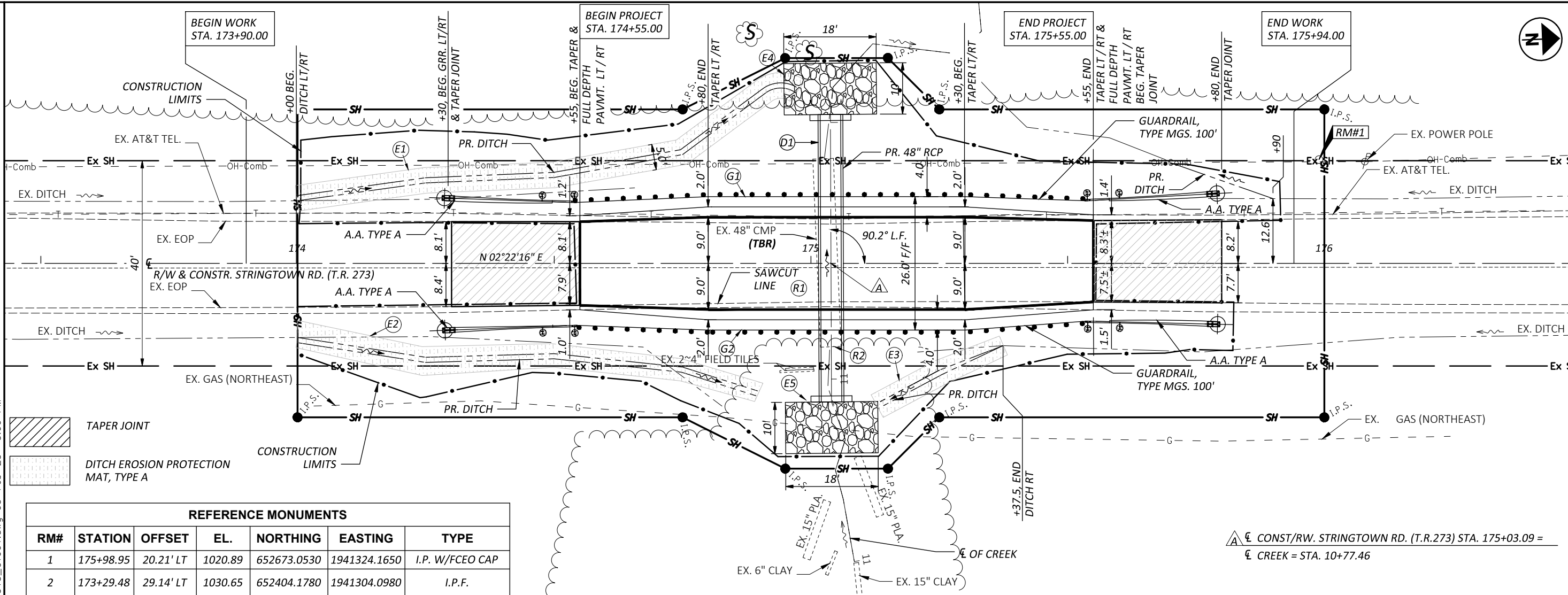
TR273-3.315

SHEET

TOTAL

6 18

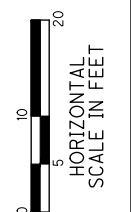
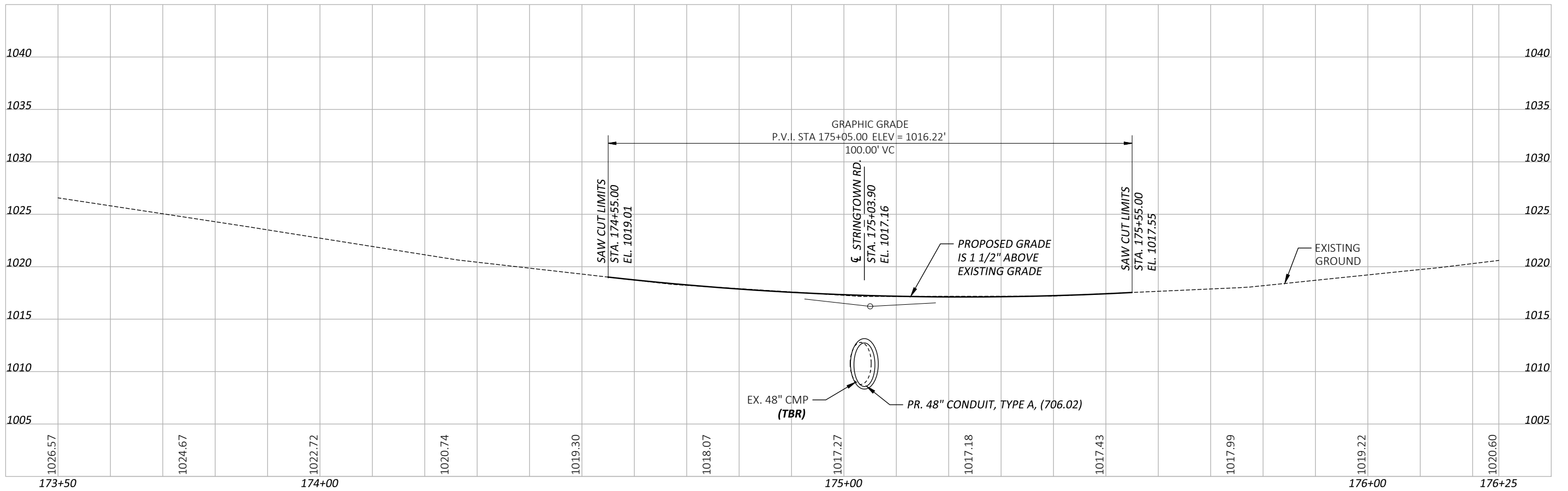




REFERENCE MONUMENTS

RM#	STATION	OFFSET	EL.	NORTHING	EASTING	TYPE
1	175+98.95	20.21' LT	1020.89	652673.0530	1941324.1650	I.P. W/FCEO CAP
2	173+29.48	29.14' LT	1030.65	652404.1780	1941304.0980	I.P.F.

△ CONST./RW. STRINGTOWN RD. (T.R.273) STA. 175+03.09 =  
 ◊ CREEK = STA. 10+77.46



**PLAN AND PROFILE**  
 STA. 173+50.00 TO STA. 176+50.00  
 T.R.273-3.315 STRINGTOWN RD.



DESIGNER	JAA
REVIEWER	
PROJECT ID	WGM 11-13-24
	TR273-3.315
SHEET	TOTAL
7	18



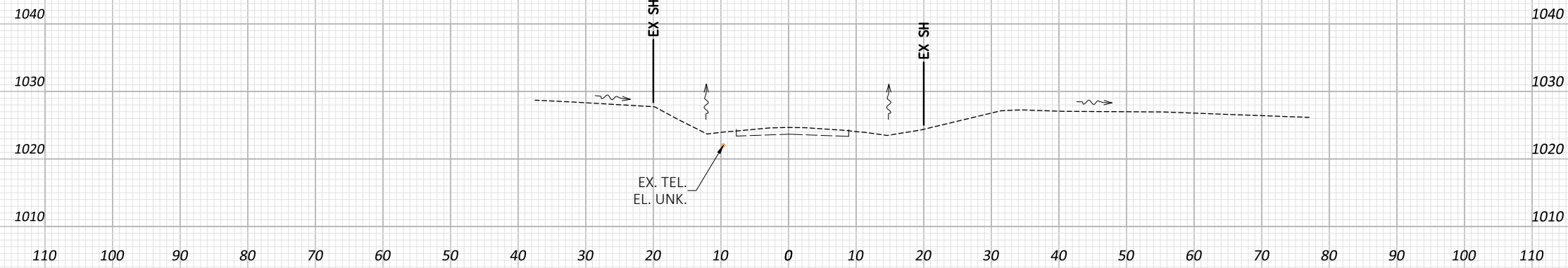


SEEDING  
END SO.  
WIDTH YDS.

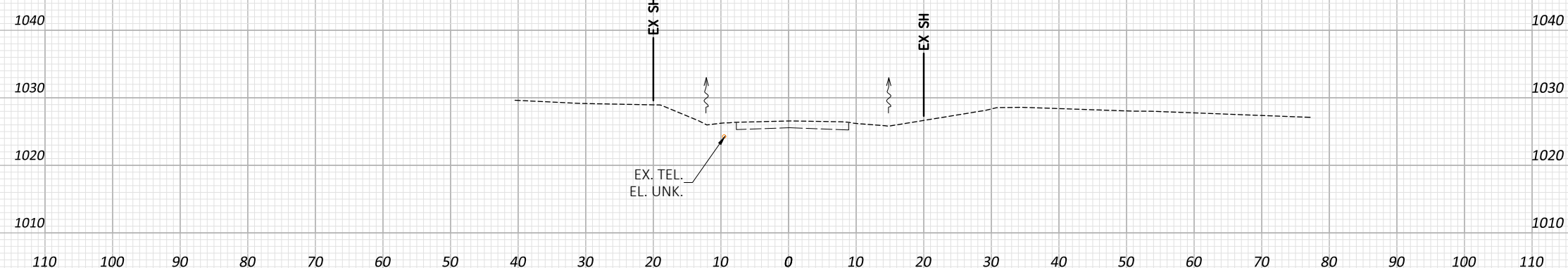
0	0
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END AREA  
CUT FILL

0	0	0	0
---	---	---	---



1024.67  
173+75.00  
1024.67



1026.57  
173+50.00  
1026.57

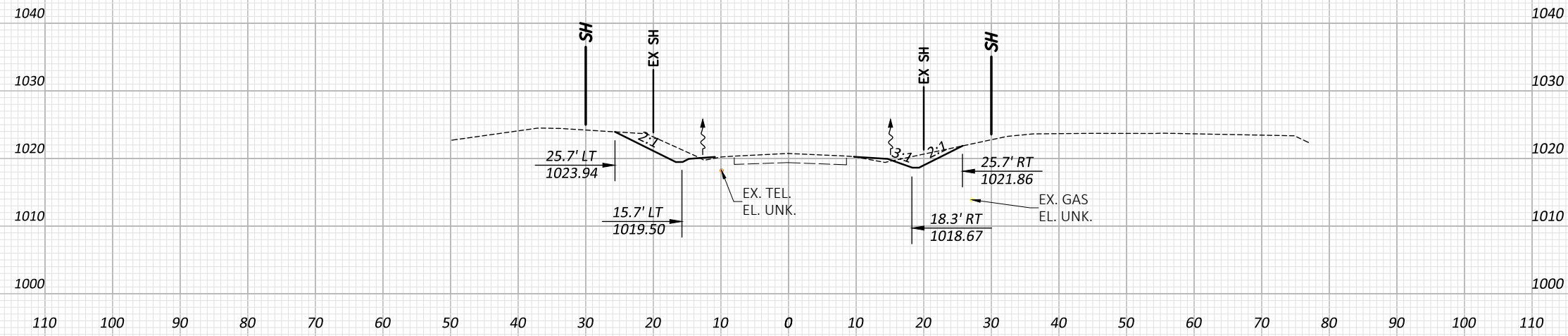
**CROSS SECTIONS - T.R273-3.315 (STRINGTOWN RD)  
STA. 173+50.00 TO STA. 173+75.00**



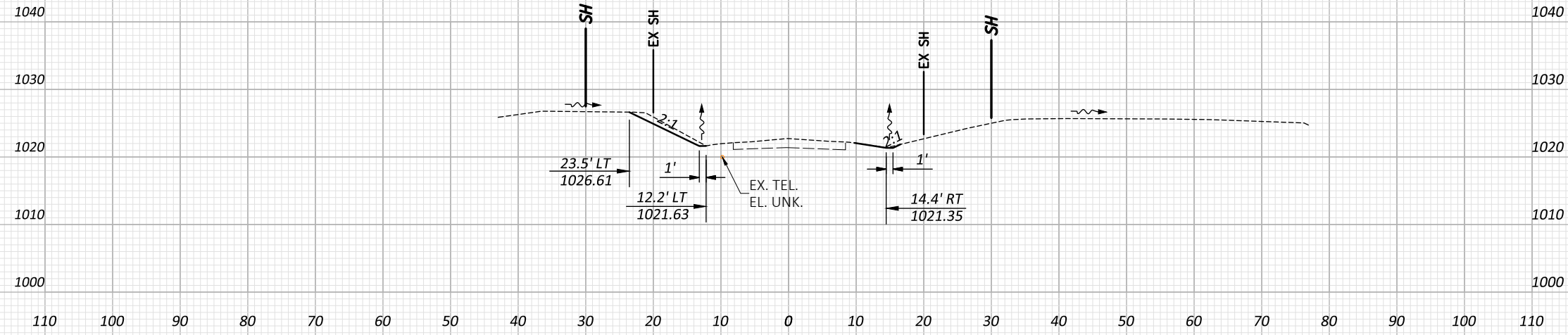
DESIGN AGENCY
DESIGNER JAA
REVIEWER WGM11-13-24
PROJECT ID TR273-3.315
SHEET TOTAL 9 18

SEEDING

END WIDTH	SO. YDS.
110	0
100	18
90	68
80	31
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	
110	



1020.74  
174+25.00  
1020.74



1022.72  
174+00.00  
1022.72

END CUT	AREA		VOLUME	
	CUT	FILL	CUT	FILL
28		2		
			17	1
9		0		
			4	0
			21	1

**CROSS SECTIONS - T.R273-3.315 (STRINGTOWN RD)**  
**STA. 174+00.00 TO STA. 174+25.00**



DESIGN AGENCY  
DESIGNER  
JAA  
REVIEWER  
WGM11-13-24  
PROJECT ID  
TR273-3.315  
SHEET TOTAL  
10 18



SEEDING	
END WIDTH	SO. YDS.

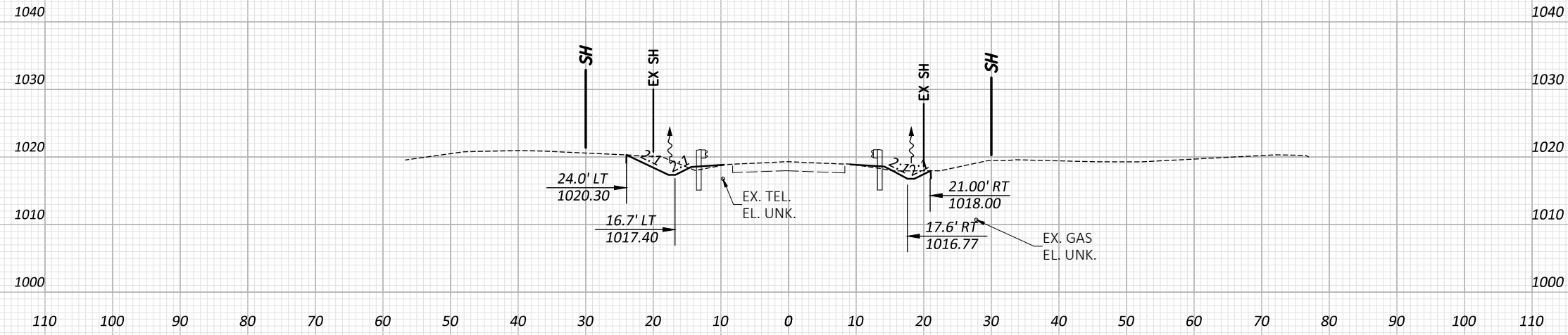
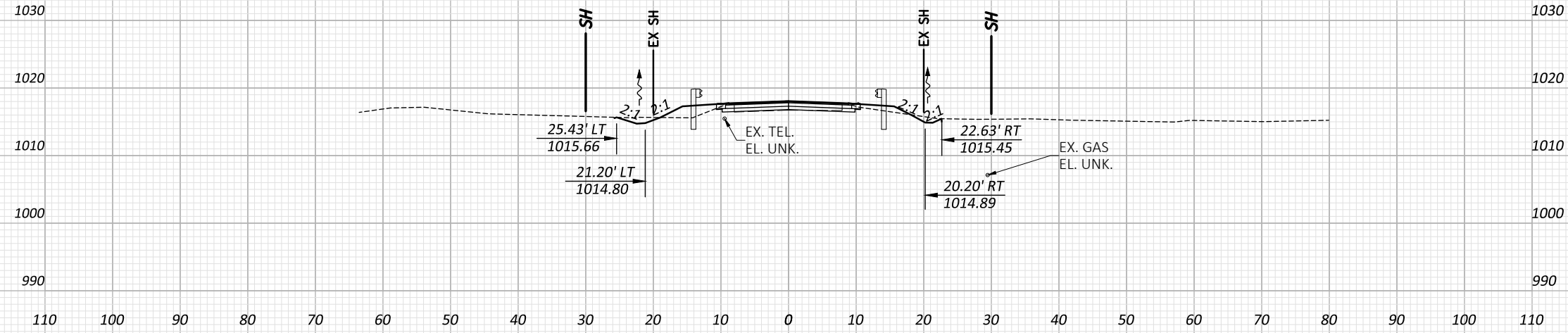
27

74

26

79

153



END CUT	AREA		VOLUME	
	CUT	FILL	CUT	FILL
6	14	10	8	
16	3	20	2	
30	10	30	10	

**CROSS SECTIONS - T.R273-3.315 (STRINGTOWN RD)  
STA. 174+50.00 TO STA. 174+75.00**



DESIGN AGENCY	
DESIGNER	JAA
REVIEWER	
PROJECT ID	WGM11-13-24
	TR273-3.315
SHEET	TOTAL
11	18

SEEDING  
END SO.  
WIDTH YDS.

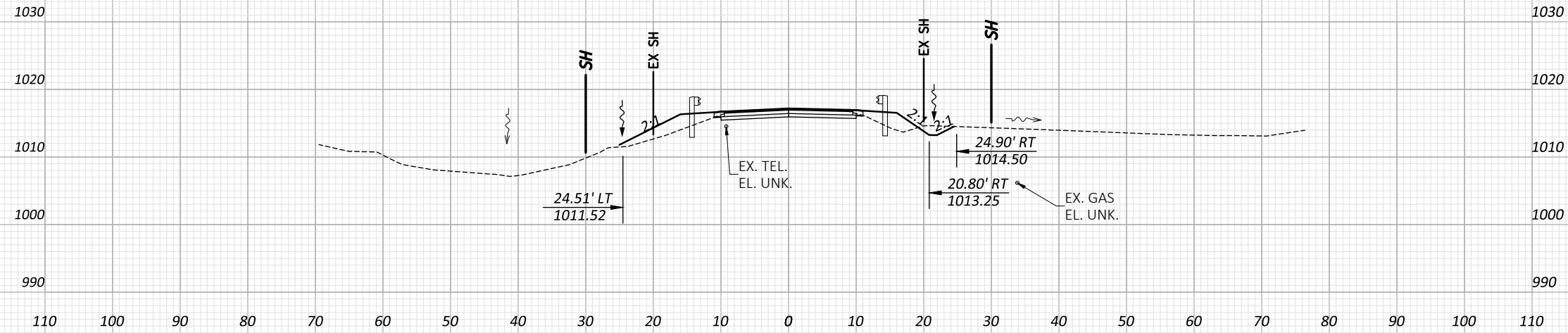
28

83

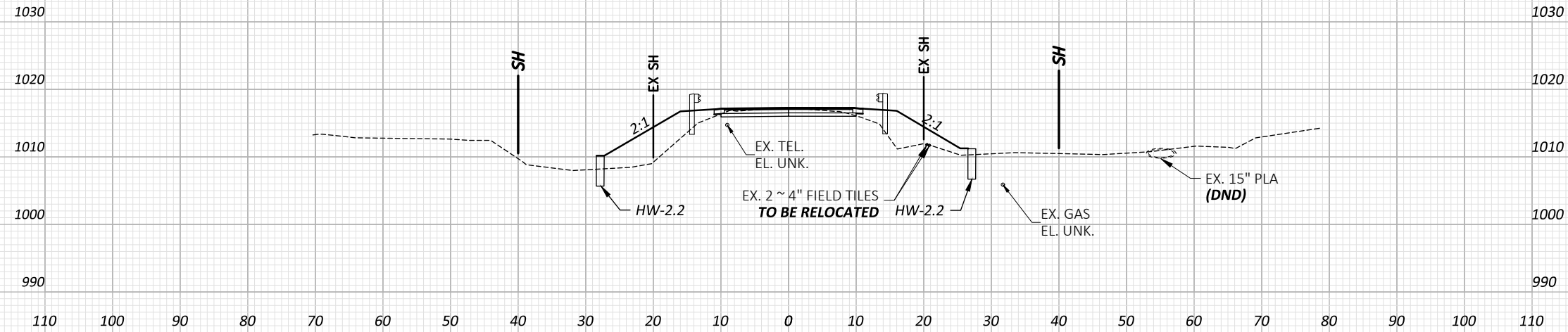
32

82

165



1017.18  
175+25.00  
1017.18



1017.27  
175+00.00  
1017.27

END CUT	AREA		VOLUME	
	CUT	FILL	CUT	FILL
4		22		
			2	56
0		100		
			3	53
			5	109

**CROSS SECTIONS - T.R273-3.315 (STRINGTOWN RD)  
STA. 175+00.00 TO STA. 175+25.00**

DESIGN AGENCY

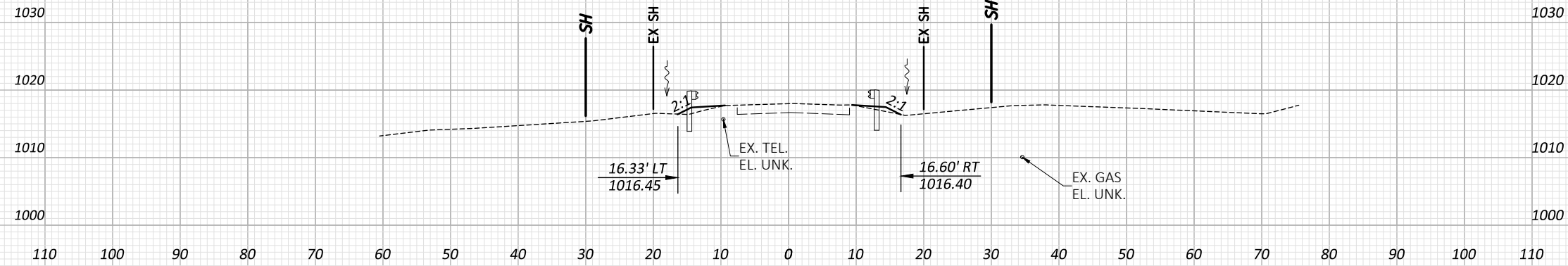


DESIGNER  
JAA  
REVIEWER  
WGM11-13-24  
PROJECT ID  
TR273-3.315  
SHEET TOTAL  
12 18

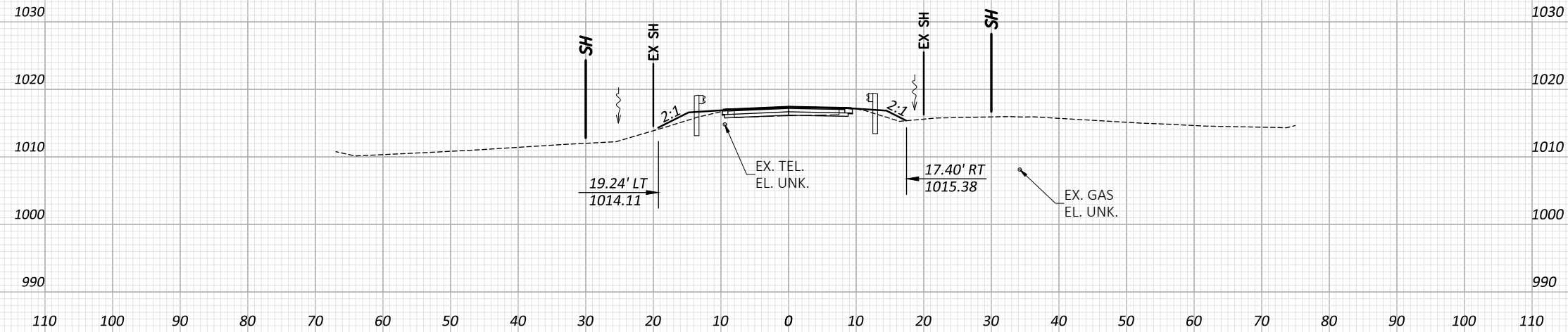


SEEDING  
END SO.  
WIDTH YDS.

14	
43	
17	
63	
106	



1017.99  
175+75.00  
1017.99



1017.43  
175+50.00  
1017.43

END CUT	AREA		VOLUME	
	CUT	FILL	CUT	FILL
0	0	6	0	6
0	0	7	0	7
0	0	10	0	10
2	2	15	2	15
2	2	22	2	22

**CROSS SECTIONS - T.R273-3.315 (STRINGTOWN RD)  
STA. 175+50.00 TO STA. 175+75.00**

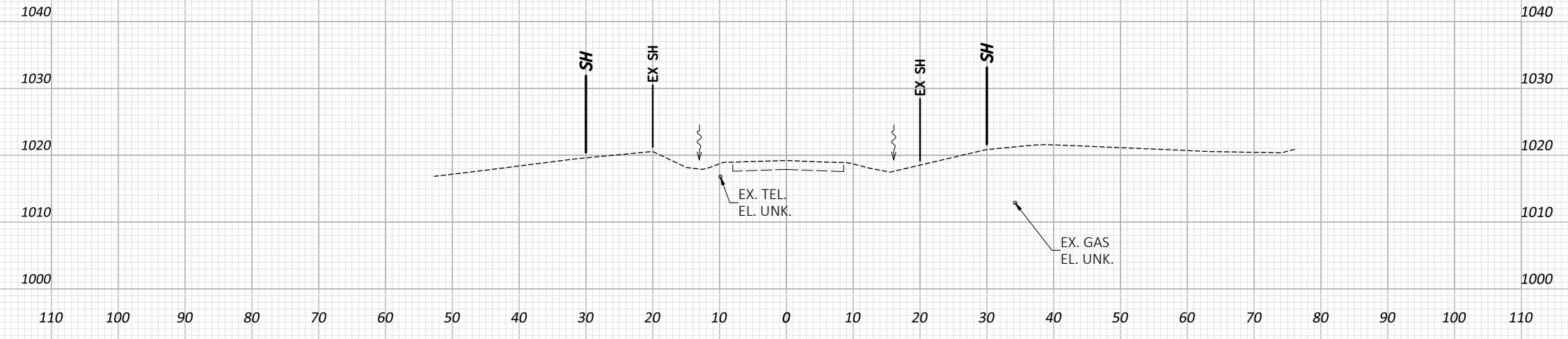
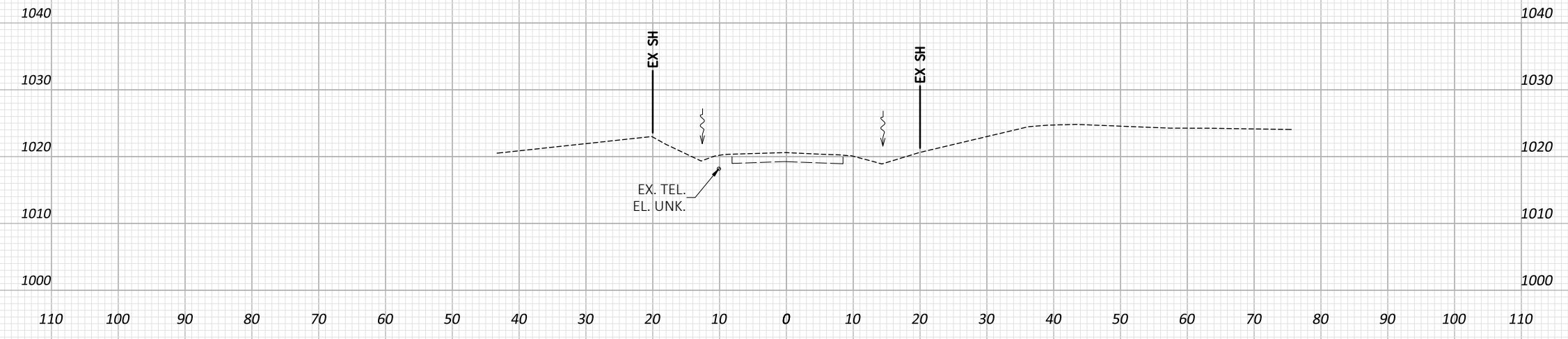


DESIGN AGENCY  
DESIGNER  
JAA  
REVIEWER  
WGM11-13-24  
PROJECT ID  
TR273-3.315  
SHEET TOTAL  
13 18

SEEDING	
END WIDTH	SO. YDS.
346	TOTALS CARRIED TO GENERAL SUMMARY

TOTALS CARRIED TO GENERAL SUMMARY

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	58	145



**CROSS SECTIONS - T.R273-3.315 (STRINGTOWN RD)  
STA. 176+00.00 TO STA. 176+25.00**



DESIGN AGENCY	
DESIGNER	JAA
REVIEWER	
PROJECT ID	WGM11-13-24
	TR273-3.315
SHEET	TOTAL
14	18

19

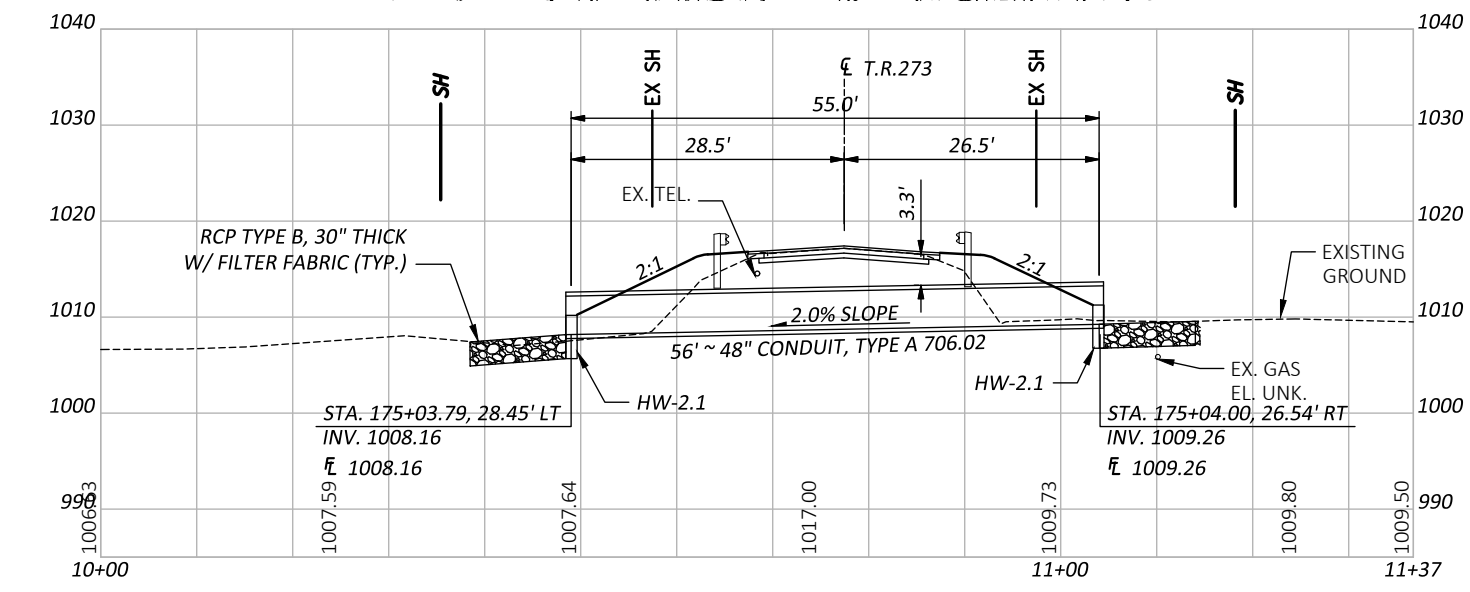
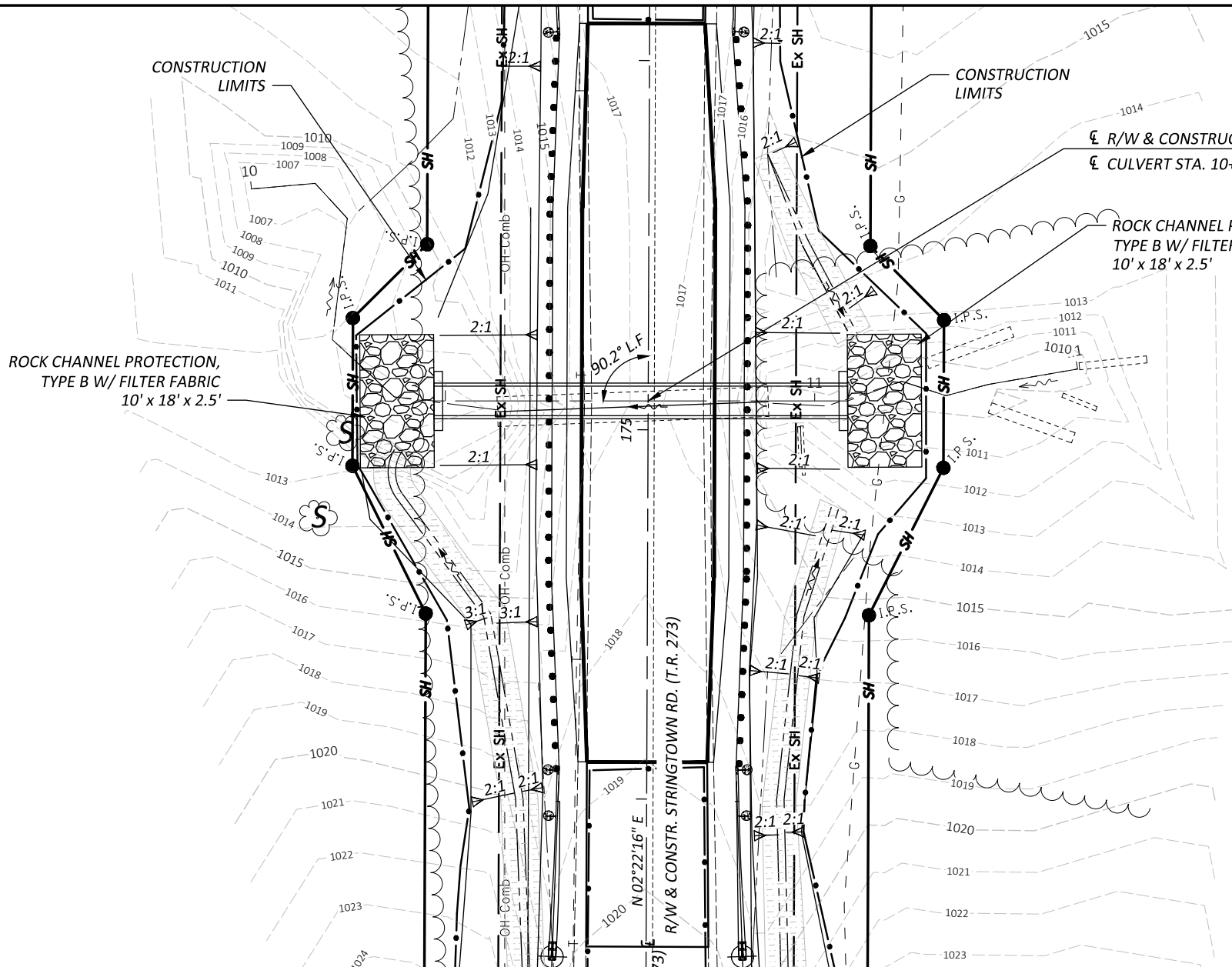
19

0

0

3

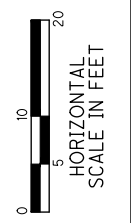
3



FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET  $\frac{7}{18}$

**NOTES**  
EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

**HYDRAULIC DATA**  
DRAINAGE AREA = 0.15 SQ. MILES  
Q (10) = 78 CFS      V (10) = 9.3 FT/S  
Q (100) = 172 CFS      V (100) = 12.3 FT/S  
STRUCTURE CLEARS THE \_\_\_\_ YEAR  
DESIGN HW BY 1013.90 FEET.



**CULVERT DETAIL**  
STA. 175+03.50  
T.R.273-3.315 STRINGTOWN RD.

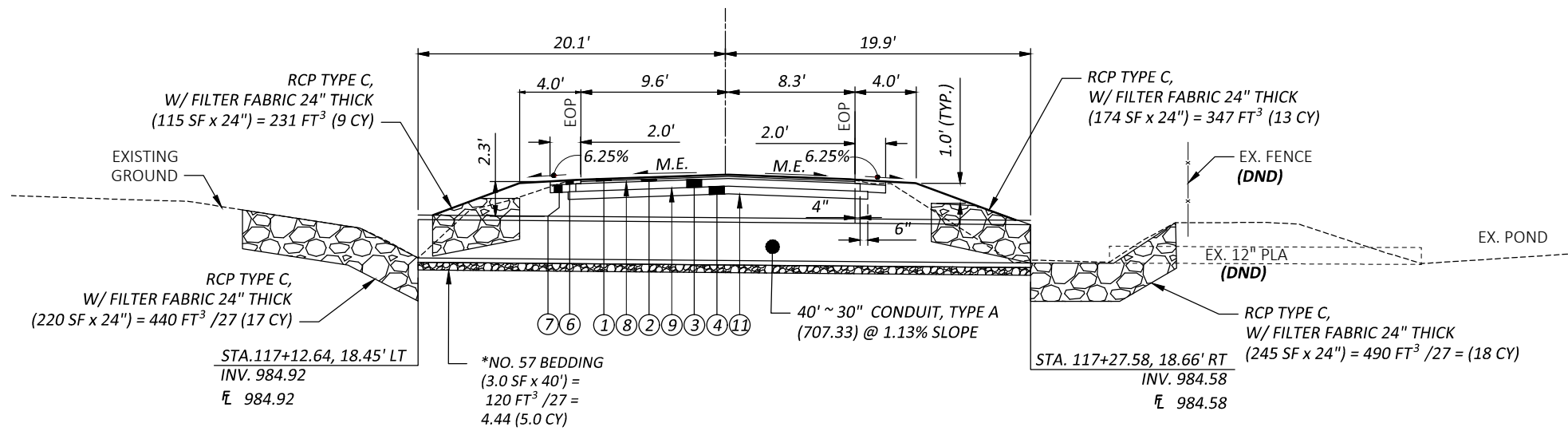
EXISTING STRUCTURE
TYPE: 48" CORRUGATED METAL PIPE SKEW: 87.7° L.F. ALIGNMENT: TANGENT CROWN: NC

PROPOSED STRUCTURE
TYPE: 48" ROUND CONCRETE PIPE ROADWAY: 26'-0" F/F GUARDRAIL SKEW: 90.2° L.F. ALIGNMENT: TANGENT CROWN: NC COORDINATES: LATITUDE 39° 47' 30" LONGITUDE -82° 35' 48"



DESIGN AGENCY	
DESIGNER	JAA
REVIEWER	
PROJECT ID	WGM 08/24
PROJECT ID	TR273-3.315
SHEET	15
TOTAL	18



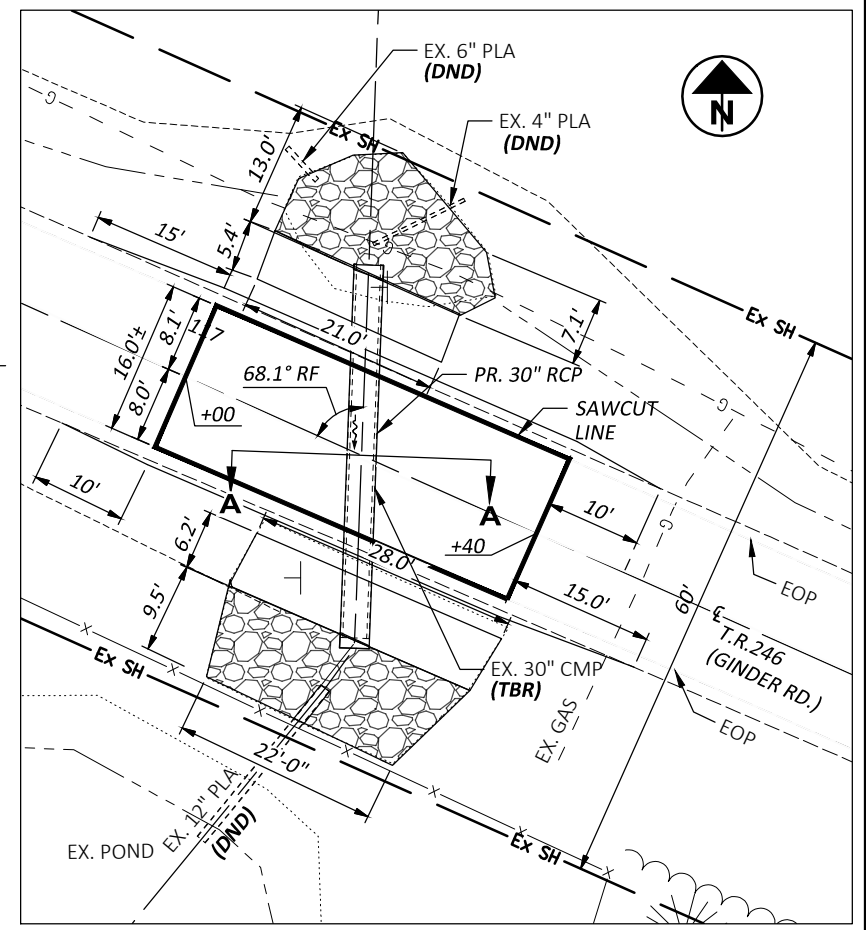


**NORMAL SECTION T.R 246-2.207**  
SECTION APPLIES:  
STA. 117+00.00 TO STA. 117+40.00 = 40 FT.  
(SKEW: 68.1° R.F).

FOR TYPICAL SECTION LEGEND SEE PROJECT T.R. 273-3.315, SHEET 2

NOTES

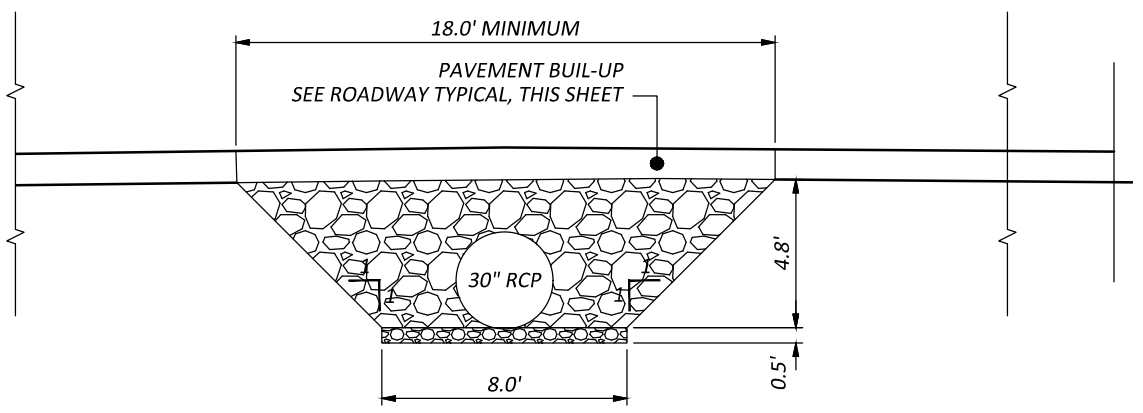
1. POSITIVE DRAINAGE SHALL BE MAINTAINED.



**PLAN VIEW**

CONTROL TABLE						
RN	STA.	OFF	EL.	NORTHING	EASTING	DESCRIPTION
1	118+21.98	33.634' RT	991.33'	647055.2820	1938792.5920	CNPT RED FCEO CONTROL CAP
2	116+61.22	25.164' RT	989.45'	647128.6140	1938649.2820	CNPT RED FCEO CONTROL CAP

ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	ROADWAY
202	74	SY	PAVEMENT REMOVED
202	39	FT	PIPE REMOVED, OVER 24"
209	2	STA.	LINEAR GRADING
301	12	CY	ASPHALT CONCRETE BASE
304	13	CY	AGGREGATE BASE
304	4	CY	AGGREGATE BASE, (BERM)
407	5	GAL	NON-TRACKING TACK COAT FOR BASE COURSE
407	4	GAL	NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE
411	2	CY	STABILIZED CRUSHED AGGREGATE, (T=3)
441	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (449)
441	4	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
611	40	FT	30" CONDUIT, TYPE A, 707.33
601	59	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER FABRIC
TOTALS CARRIED TO GENERAL SUMMARY SHEET 5			



**SECTION A-A**  
N.T.S.

INSTALL AS PER 611 INSTALLATION PLAN

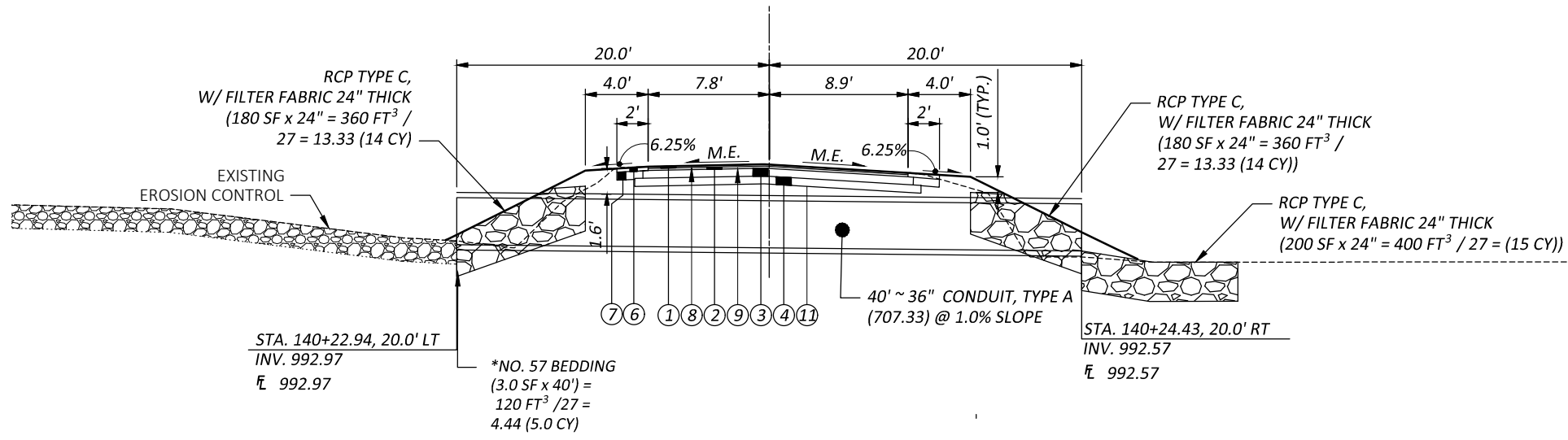
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16  
18

**T.R. 246-2.207 PLAN**

**CULVERT REPLACEMENT**  
GREENFIELD TOWNSHIP - T.R. 246-2.2.207 (GINDER RD.)

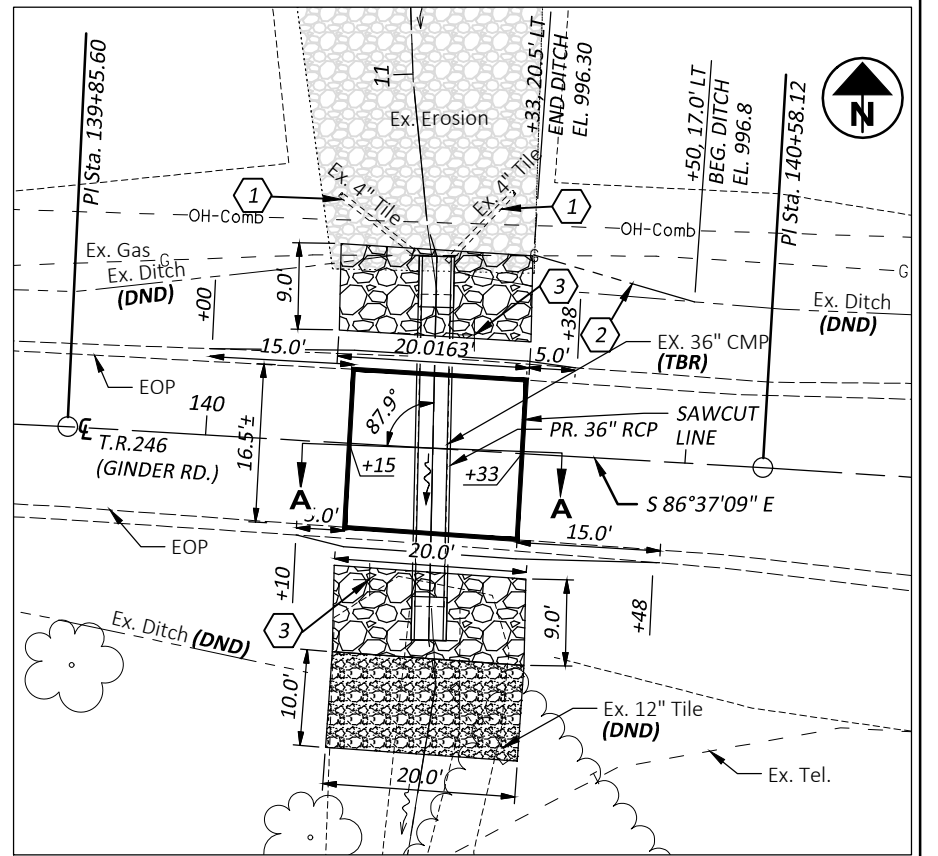
CHECKED	CALCULATED
WGM	JAA
DATE	
10/05	



**NORMAL SECTION T.R. 246-2.656**  
SECTION APPLIES:  
STA. 140+15.00 TO STA. 140+33.00 = 18.0 FT.  
(SKEW: 87.9° R.F.)

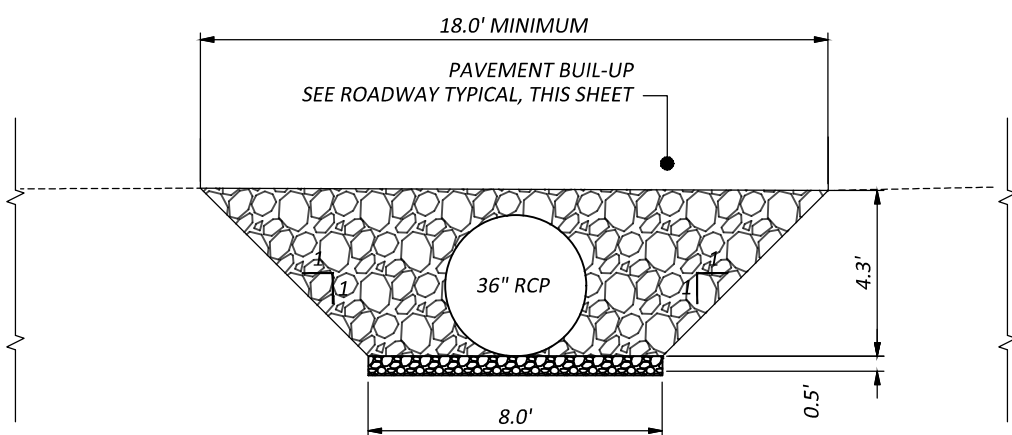
FOR TYPICAL SECTION LEGEND SEE PROJECT T.R. 273-3.315, SHEET 2  
NOTES  
1. POSITIVE DRAINAGE SHALL BE MAINTAINED.

- (X) CODED NOTES**
- CUT EXISTING TILES TO WITHIN 5 FT OF CONDUIT.
  - MAINTAIN POSITIVE DRAINAGE ON PROPOSED DITCH.
  - REMOVE AND RETURN EXISTING SIGNS TO THE COUNTY.



**PLAN VIEW**

CONTROL TABLE						
RN.	STA.	OFF	EL.	NORTHING	EASTING	DESCRIPTION
1	140+90.79	56.67' RT	995.50'	646686.5330	1941048.1600	CNPT RED FCEO CONTROL CAP
2	141+03.25	49.50' LT	1001.68'	646791.7000	1941067.3370	CNPT RED FCEO CONTROL CAP



**SECTION A-A**  
N.T.S.

INSTALL AS PER 611 INSTALLATION PLAN

ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	ROADWAY
202	33	SY	PAVEMENT REMOVED
202	33	FT	PIPE REMOVED, OVER 24"
209	1.5	STA.	LINEAR GRADING
301	6	CY	ASPHALT CONCRETE BASE
304	7	CY	AGGREGATE BASE
304	3	CY	AGGREGATE BASE, (BERM)
407	3	GAL	NON-TRACKING TACK COAT FOR BASE COURSE
407	2	GAL	NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE
411	2	CY	STABILIZED CRUSHED AGGREGATE, (T=3)
441	2	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (449)
441	2	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
611	40	FT	36" CONDUIT, TYPE A, 707.33
601	44	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER FABRIC
TOTALS CARRIED TO GENERAL SUMMARY SHEET 5			

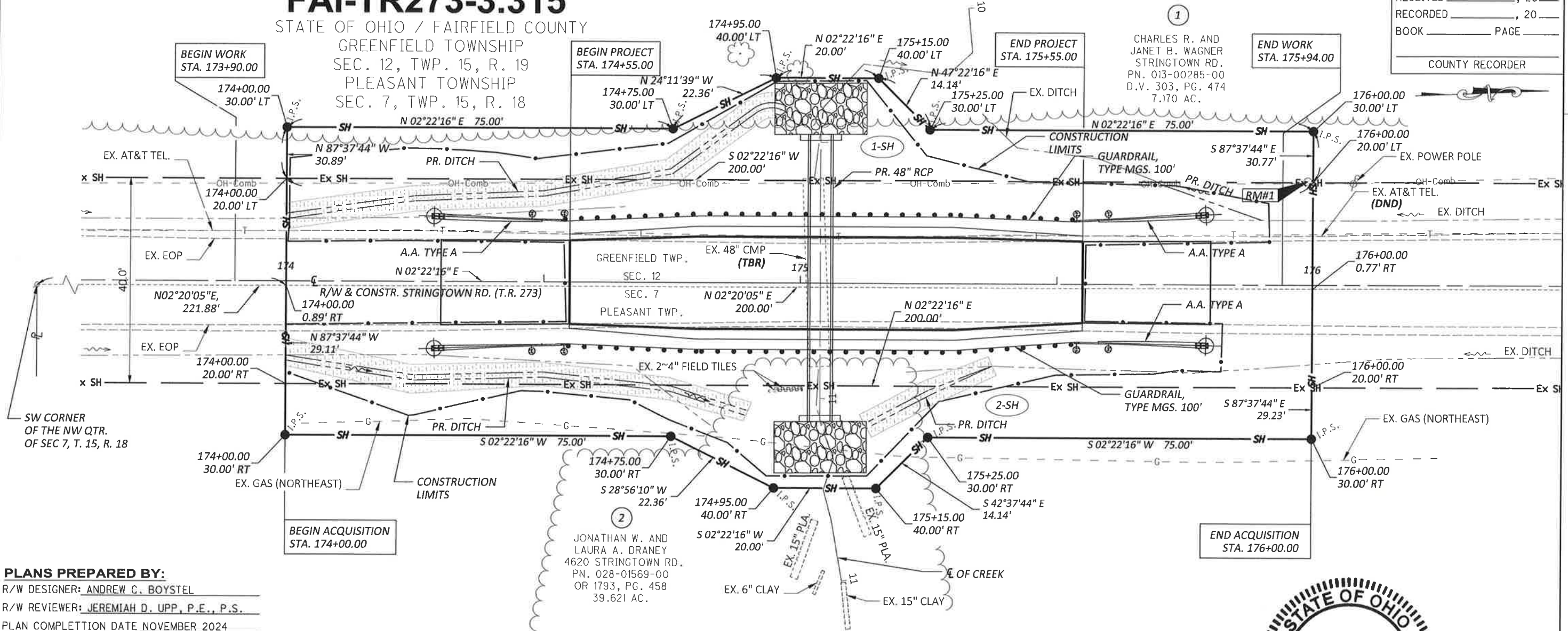
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# FAI-TR273-3.315

STATE OF OHIO / FAIRFIELD COUNTY  
 GREENFIELD TOWNSHIP  
 SEC. 12, TWP. 15, R. 19  
 PLEASANT TOWNSHIP  
 SEC. 7, TWP. 15, R. 18

RECEIVED \_\_\_\_\_, 20\_\_\_\_  
 RECORDED \_\_\_\_\_, 20\_\_\_\_  
 BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
 COUNTY RECORDER



**PLANS PREPARED BY:**  
 R/W DESIGNER: ANDREW C. BOYSTEL  
 R/W REVIEWER: JEREMIAH D. UPP, P.E., P.S.  
 PLAN COMPLETION DATE NOVEMBER 2024

**LEGEND**

Ditch / Creek (Ex) -----	Property Line Symbol $\overline{P}$ , Example $\overline{P}$
Ditch / Creek (Pr) -----	Break Line Symbol $\overline{B}$ , Example $\overline{B}$
Tree Line (Ex) -----	Tree (Pr) $\odot$ , Tree (Ex) $\odot$ , Shrub (Ex) $\odot$
Section Line -----	Tree (Remove) $\otimes$ , Shrub (Remove) $\otimes$
Fence Line (Ex) -----	Evergreen (Ex) $\star$ , Stump $\star$
Center Line -----	Evergreen (Remove) $\star$ , Stump (Remove) $\star$
Standard Highway Ease.(Ex) -----	Wetland (Pr) $\nabla$ , Grass (Pr) $\nabla$ , Aerial Target $\triangle$
Standard Highway Ease.(Pr) -----	Post (Ex) $\circ$ , Mailbox (Ex) $\square$ , Mailbox (Pr) $\square$
Guardrail (Ex) -----	Light (Ex) $\odot$ , Telephone Marker (Ex) $\odot$
Construction Limits -----	Fire Hydrant (Ex) $\square$ , Water Meter (Ex) $\square$
Edge of Pavement (Ex) -----	Water Valve (Ex) $\odot$ , Utility Valve Unknown (Ex.) $\odot$
Edge of Pavement (Pr) -----	Telephone Pole (Ex) $\odot$ , Power Pole (Ex) $\odot$
Edge of Shoulder (Ex) -----	Light Pole (Ex) $\odot$
Edge of Shoulder (Pr) -----	

**MONUMENT LEGEND**  
 $\odot$  RAILROAD SPIKE FOUND  
 $\bullet$  I.P.S.  $\frac{3}{8}$ " x 30" LONG REBAR W/ YELLOW PLASTIC CAP MARKED "FCEO SURVEY BOUNDARY"

**TYPES OF TITLE LEGEND:**  
 SH = STANDARD HIGHWAY EASEMENT

**BASIS FOR BEARINGS:**  
 BEARINGS ARE BASED ON THE OHIO STATE PLANE GRID COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2011) AND THE WEST LINE OF SECTION 7 AS BEING N02°20'05"E AND ARE USED TO DENOTE ANGLES ONLY

**PERTINENT DOCUMENTS**  
 FAIRFIELD COUNTY TAX MAPS  
 REFERENCED DEEDS OF RECORDS  
 AND CORRESPONDING PLATS OF SURVEY



I HEREBY CERTIFY THAT THIS PLAT DEPICTS AN ACTUAL FIELD SURVEY PREPARED BY THE FAIRFIELD COUNTY ENGINEER'S OFFICE AND UNDER THE SUPERVISION OF JEREMIAH D. UPP, P.E., P.S. IN 2024  
 Professional Land Surveyor No. 8531 Date 12/11/24

**SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED**

NO. OF STRUCTURES =0  
 NO. OF PROPERTY OWNERS =2  
 NO. OF TOTAL EASEMENT TAKES =2

**GRANTEE:**  
 ALL RIGHT OF WAY ACQUIRED IN THE NAME OF BOARD OF FAIRFIELD COUNTY COMMISSIONERS OF FAIRFIELD COUNTY, OHIO UNLESS OTHERWISE SHOWN.

ALL AREAS IN ACRES  
 NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE  
 NET TAKE = GROSS TAKE - PRO IN TAKE (c) = CALCULATED

PARCEL NO.	OWNER	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
										LEFT	RIGHT			INSTRUMENT NO.	
1-SH	CHARLES R. AND JANET B. WAGNER	D.V. 303, PG. 474	013-00285-00	7.170		0.149	0.095	0.054							
2-SH	JONATHAN W. AND LAURA A. DRANEY	OR 1793, PG. 458	028-01569-00	39.621		0.141	0.088	0.053			LOCAL				

REV. BY	DATE	DESCRIPTION



DESIGNER: ACB  
 REVIEWER: WGM  
 PROJECT ID: TR273-3.315  
 SHEET TOTAL: 18 / 18

J:\Township\Greenfield\Various Culverts 2024\GRE-TR273-3.315\Design\Plans\Sheets\TR273-3.315\_RW001.dwg 10-Dec-24 10:14 AM  
 FAI-TR273-3.315

RIGHT OF WAY PLAN  
 TR 273 (STRINGTOWN ROAD)