



June 4, 2025

Lorain County Engineer
247 Hadaway Street
Elyria, Ohio 44035

Attn: Peter Zwick, P.E., P.S., Chief Deputy Engineer

Re: Foster Ditch Restoration Petition Final Report

Lorain County Engineer's Office:

On behalf of the Lorain County Stormwater Management District, we report the final estimates of cost for the cleaning of sediment and restoring Foster Ditch as petitioned. This is classified as a routine ditch maintenance project.

Engineer's Office:

K.E. McCartney and Associates Inc. hereby estimates the cost to clean and restore Foster Ditch at \$1,320,000.00 (see detailed engineer's Final estimate in Appendix B). In our opinion, this project is feasible, it is conducive to public welfare, and its benefits are likely to exceed its estimated cost.

Project Location and Description

The project will clean and restore Foster Ditch from about 1,216 ft west of Whitehead Road, easterly 1.77 miles along Foster Ditch to its confluence with the roadside ditch north of Whitney Road. Thence, along the roadside ditch north of Whitney Road, 48 feet east and 58 feet west from the confluence of Foster Ditch. The project will restore an adequate outfall to the local storm system, roadside ditches, yard drains, house drains and field tiles that discharge to the ditch. Removal of flow obstructions will allow for better flow conveyance to reduce flooding incidents and the severity of the incidents while improving drainage throughout the watershed. The project scope includes clearing on one side of the ditch to provide permanent access, removal of log jams or other obstructions, removal of sediment within the ditch, ditch reshaping at specific locations to restore original line and grade.

52 N. Diamond St. | Mansfield, OH 44902 | T. 419.525.0093
526 E. Broad St. | Elyria, OH 44035 | T. 440.323.9608
5065 Oberlin Ave. | Lorain, OH 44053 | T. 440.444.1022
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The project also includes two conservation ditch sections, funded by H2Ohio, which include a widened, self-forming channel design with permanent access on both sides. The project will include best management practices for temporary and permanent erosion controls. The project will also provide for on-going inspection and maintenance in accordance with ORC 6137.06 within a new easement. The project will improve drainage for 1,420 acres within LaGrange Township; and it will feasibly reduce flooding of yards, roadway, and farm fields. More than 169 parcels of land will benefit from this project. The benefit area and associated list of benefiting properties is provided in Appendix A.

Other factors pro & con

1. This improvement is necessary to provide an adequate drainage outlet for the local storm water conveyance system, and to restore the drainage of about 1,420 acres and 169 parcels of land within LaGrange Township.
2. This improvement will relieve nearby agricultural tiles and septic outlets by restoring an adequate outfall.
3. This improvement will reconstruct and reshape the ditch in specific locations into safe and erosion resistant banks that are properly sloped.
4. Due to prolonged inundation of the ditch road culverts, the project will include sediment removal within the culverts to restore flow.
5. A corridor of trees and brush must be cleared along the ditch line for the purpose of access for construction as well as for ongoing maintenance.
6. This improvement will create permanent ditch maintenance easements about 50 feet wide (70 feet for conservation ditch sections) that will facilitate permanent maintenance by the County Engineer. The easements will encompass the ditch and unobstructed access lane(s) along the ditch.
7. Best management practices for temporary and permanent erosion controls will be employed before, during and after construction.
8. The wetlands environmental assessment indicated various wetlands present along the ditch. Wetlands and environmentally significant areas will be avoided. Sediment and vegetation will be removed per the US Army Corps of Engineers "one-step method." No additional impervious surface will result from this project. No removal of wetlands is planned for this project. Any crossing of wetlands will be done using US Army Corps of Engineers methods as to not disturb the wetlands.
9. This project will be funded in part by the Ohio Department of Natural Resources H2Ohio Statewide Wetland Grant Program. The Lorain County Engineer has an agreement with the Ohio Department of Agriculture for reimbursement of \$307,300 for the construction of a conservation ditch in two separate sections of the project under this program. The conservation ditch sections will restore the flowline of the ditch by constructing an overwide bottom, creating a self-forming channel. The constructed channel width will be designed based on the "Agricultural Ditches Regional Curve" Method.
10. K.E. McCartney and Associates Inc. estimates damages at \$0. K.E. McCartney and Associates Inc. estimates that as a result of this improvement and subsequent

maintenance thereof, the benefits of this project (including providing an outlet for runoff from upland, reduction of damage from flooding, removal of water that jeopardizes public health, safety or welfare, increased value and productivity of land, storage and regulation of ditch flow, and other benefits) will fully offset all potential damages.

11. This improvement will establish vegetated filter strip buffers that will protect water quality by removing sediment, contaminants, and suspended solids from overland flow coming from adjacent land and provide soil conservation.

Current conditions

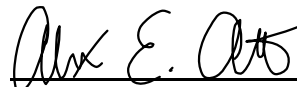
A photo log, previous ditch analysis, previous ditch reports and a preliminary wetland assessment to show the current condition of the ditch are attached as Appendix D, E, and F.

The following documents are included in this report:

Appendix A – Benefit Area Map & Benefiting Parcels List
Appendix B – Engineer’s Cost Estimate
Appendix C – Final Plan
Appendix D – Photo Log
Appendix E – Foster Ditch Preliminary Report, 2021
Appendix F – Preliminary Wetland Assessment, 2023
Appendix G – Foster Ditch Petition Map

Sincerely,

K.E. McCARTNEY & ASSOCIATES, INC.



Alex E. Alt, P.E.

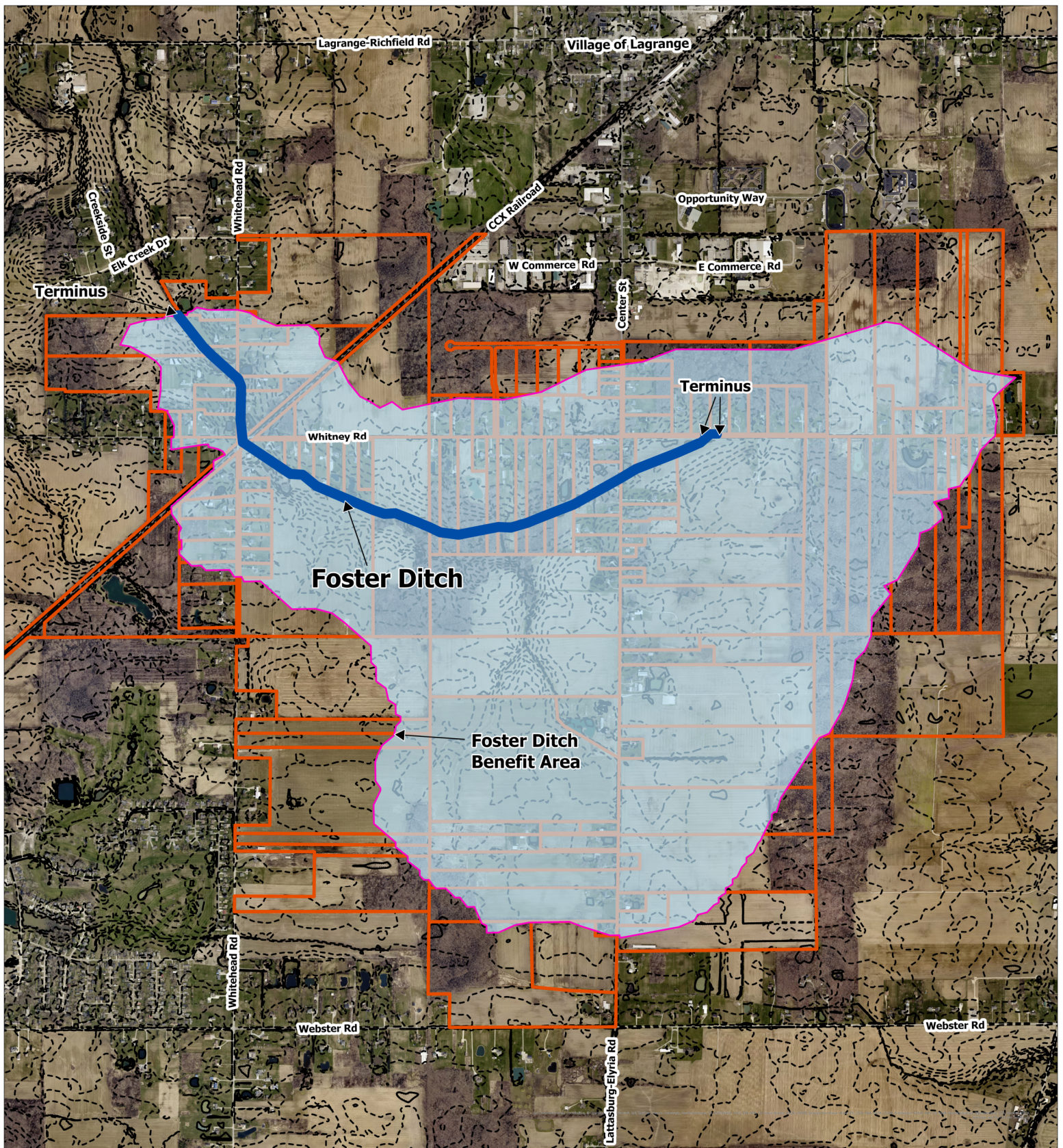
Project Manager

aalt@kemccartney.com

Enclosure

cc: Don Romancak, Storm Water and Community Development Coordinator, dromancak@loraincounty.us

Appendix A
Benefit Area Map & Benefiting Parcels List



Foster Ditch Benefit Area Map

Benefit Area = 1420.23 Acres



0 500 1,000 2,000 3,000 4,000 US Feet

List of Land Owners Claimed to be Benefited or Damaged

Lorain County Ditch Petition

Estimated Assessments

Foster Ditch

Total Project Cost = \$1,320,000

Total Benefitted = Ac. 1420.23

Annual Maint. Fee = \$66,000

Ditch Length = LF 8,614

Entry	Owners Name	Address	City	State	Zip	Parcel Number	Orig. Lot	Township	Adjacent	Acres Owned	Acres Benefited	Description	Damages	Assessment	Annual Maint.
1	BOONE DANIEL L & BOONE AMY D	42124 WHITNEY RD	LAGRANGE	OH	44050	1500063000030	63	LAGRANGE	No	1.68	1.68	Instr. 2018-0678322	\$0.00	\$1,562.39	\$78.12
2	PLAS CHARLES J	18615 STATE ROUTE 301	LAGRANGE	OH	44050	1500095000038	95	LAGRANGE	No	48.62	31.21	Instr. 2004-0007486	\$0.00	\$29,011.37	\$1,450.57
3	COWIE WANDA G	40598 WHITNEY RD	LAGRANGE	OH	44050	1500066000014	66	LAGRANGE	No	4.08	4.07	Instr. 2000-0667713	\$0.00	\$3,781.11	\$189.06
4	NOTLEY JOHN P & NOTLEY REBECCA D	44610 HUGHES RD	OVERLIN	OH	44074	1500084000009	84	LAGRANGE	No	65.02	20.53	Instr. 2023-0937630	\$0.00	\$19,082.76	\$954.14
5	EARLE MARK S & KATHLEEN A	PO BOX 262	LAGRANGE	OH	44050	1500063000035	63	LAGRANGE	Yes	31.00	13.09	Instr. 1991-0126523	\$0.00	\$12,163.40	\$608.17
6	FISH JAMES H TRUSTEE	41813 WHITNEY RD	LAGRANGE	OH	44050	1500077000016	77	LAGRANGE	Yes	3.13	3.14	Instr. 2013-0445220	\$0.00	\$2,918.35	\$145.92
7	ALLEN MARY A	40231 WHITNEY RD	LAGRANGE	OH	44050	1500074000018	74	LAGRANGE	No	10.16	10.15	Instr. 2001-0788607	\$0.00	\$9,433.22	\$471.66
8	RACEY SUSAN L	40112 WHITNEY RD	LAGRANGE	OH	44050	1500067000009	67	LAGRANGE	No	32.96	11.08	Instr. 2010-0343216	\$0.00	\$10,302.60	\$515.13
9	PLAS JEFFREY A TRUSTEE & PLAS CYNTHIA C TRUSTEE	18364 ST RT 301 S	LAGRANGE	OH	44050	1500085000001	85	LAGRANGE	No	50.00	50.25	Instr. 2018-0686489	\$0.00	\$46,703.42	\$2,335.17
10	SHAW CAROLINE A & SHAW ROBERT	41170 WHITNEY RD	LAGRANGE	OH	44050	1500065000034	65	LAGRANGE	No	4.00	4.01	Instr. 2017-0638669	\$0.00	\$3,724.72	\$186.24
11	INGERSOLL JEFFERY A & INGERSOLL KATHRYN J	42157 WHITNEY RD	LAGRANGE	OH	44050	1500078000024	78	LAGRANGE	No	2.48	0.54	Instr. 2013-0469412	\$0.00	\$501.42	\$25.07
12	RACEY SUSAN L	40112 WHITNEY RD	LAGRANGE	OH	44050	1500067000016	67	LAGRANGE	No	5.22	1.28	Instr. 2010-0343216	\$0.00	\$1,192.95	\$59.65
13	DVORAK KAREL F & FAWN A	41145 WHITNEY RD	LAGRANGE	OH	44050	1500076000013	76	LAGRANGE	Yes	9.37	9.34	Instr. 1991-0161882	\$0.00	\$8,682.52	\$434.13
14	SWIFT DARRALL & SWIFT MONICA	18281 WHITEHEAD RD	LAGRANGE	OH	44050	1500077000019	77	LAGRANGE	No	2.02	2.02	Instr. 2019-0722373	\$0.00	\$1,878.03	\$93.90
15	CINDIA JAMIE LYNNE	41809 WHITNEY RD	LAGRANGE	OH	44050	1500077000013	77	LAGRANGE	No	3.17	3.17	Instr. 2013-0490641	\$0.00	\$2,948.52	\$147.43
16	SCHMIDT RICHARD A & JUDITH A	41259 WHITNEY RD	LAGRANGE	OH	44050	1500076000019	76	LAGRANGE	Yes	5.62	5.62	Instr. 2006-0168609	\$0.00	\$5,227.88	\$261.39
17	MORRISON JAMES W & DEBORAH	41360 WHITNEY RD	LAGRANGE	OH	44050	1500065000031	65	LAGRANGE	No	4.00	3.60	Instr. 1989-0070064	\$0.00	\$3,343.03	\$167.15
18	GEEN ALFRED & GEEN JARITH	17759 WHITEHEAD RD	LAGRANGE	OH	44050	1500064000010	64	LAGRANGE	No	4.00	4.00	Instr. 2020-0792897	\$0.00	\$3,718.01	\$185.90
19	KC LAND HOLDINGS LLC	P O BOX 393	WELLINGTON	OH	44090	1500095000035	95	LAGRANGE	No	5.01	5.00	Instr. 2022-0865291	\$0.00	\$4,649.43	\$232.47
20	PUKA MARVIN J & DAWN M	41431 WHITNEY RD	LAGRANGE	OH	44050	1500076000007	76	LAGRANGE	Yes	9.37	9.36	Instr. 2008-0244916	\$0.00	\$8,701.22	\$435.06
21	MARQUIS MICHELE L	19034 ST RT 301	LAGRANGE	OH	44050	1500085000008	85	LAGRANGE	No	6.38	6.24	Instr. 2024-0002578	\$0.00	\$5,801.62	\$290.08

Properties Adjacent to project are shown bold

List of Land Owners Claimed to be Benefited or Damaged

Lorain County Ditch Petition

Estimated Assessments

Foster Ditch

Total Project Cost = \$1,320,000

Total Benefitted = Ac. 1420.23

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Ditch Length = LF 8,614

Entry	Owners Name	Address	City	State	Zip	Parcel Number	Orig. Lot	Township	Adjacent	Acres Owned	Acres Benefited	Description	Damages	Assessment	Annual Maint.
22	ALTMORE JAMES B & BOBBIE JO	40169 WHITNEY RD	LAGRANGE	OH	44050	1500074000029	74	LAGRANGE	No	3.17	3.17	Instr. 2016-0584997	\$0.00	\$2,948.02	\$147.40
23	SMITH VERLAN D & SMITH ROBERTA L	41825 Whitney Rd	LAGRANGE	OH	44050	1500077000025	77	LAGRANGE	Yes	2.81	2.81	Instr. 2014-0514429	\$0.00	\$2,613.89	\$130.69
24	LAGRANGE TOWNSHIP OF	P O BOX 565	LAGRANGE	OH	44050	1500077900003	77	LAGRANGE	Yes	0.09	0.09	Plat Ref. Vol 83 Pg. 75	\$0.00	\$84.22	\$4.21
25	CALDERON RAFAEL	40308 WHITNEY RD	LAGRANGE	OH	44050	1500067000021	67	LAGRANGE	No	4.00	3.97	Instr. 2022-0883111	\$0.00	\$3,688.24	\$184.41
26	GERTH BOBBIE JO	5545 VIRGINIA CT	AMHERST	OH	44001	1500074000022	74	LAGRANGE	No	19.18	19.15	Instr. 2006-0149070	\$0.00	\$17,796.62	\$889.83
27	NORRIS GLEN W & PAMELA S	42070 WHITNEY RD	LAGRANGE	OH	44050	1500063000013	63	LAGRANGE	No	4.63	4.61	Instr. 1992-0209866	\$0.00	\$4,283.62	\$214.18
28	BYERS BRIAN K & DEIDRICK DAWN L	18337 STATE ROUTE 301	LAGRANGE	OH	44050	1500075000011	75	LAGRANGE	No	0.92	0.92	Instr. 1998-0555175	\$0.00	\$857.73	\$42.89
29	MILESKI DAVID B	19012 ST RT 301 S	LAGRANGE	OH	44050	1500096000007	96	LAGRANGE	No	4.72	5.05	Instr. 1995-0359841	\$0.00	\$4,690.10	\$234.50
30	FATZ RANDALL A	PO BOX 508	LAGRANGE	OH	44050	1500075000003	75	LAGRANGE	No	40.00	39.81	Instr. 2008-0241610	\$0.00	\$37,002.00	\$1,850.10
31	JEWETT ANNA M TRUSTEE	17865 WHITEHEAD RD	LAGRANGE	OH	44050	1500064000017	64	LAGRANGE	Yes	2.76	2.75	Instr. 2016-0579745	\$0.00	\$2,560.41	\$128.02
32	NOTLEY JOHN P & NOTLEY REBECCA D	44610 HUGHES RD	OBERLIN	OH	44074	1500085000011	85	LAGRANGE	No	91.92	91.80	Instr. 2023-0937630	\$0.00	\$85,324.65	\$4,266.23
33	LINCICOME DANIEL & BONNIE K	17891 STATE ROUTE 301	LAGRANGE	OH	44050	1500066000006	66	LAGRANGE	No	3.85	3.85	Instr. 2003-0926222	\$0.00	\$3,574.17	\$178.71
34	WAAG CHARLES E	41290 WHITNEY ROAD	LAGRANGE	OH	44050	1500065000032	65	LAGRANGE	No	4.00	3.70	Instr. 1985-0181066	\$0.00	\$3,438.94	\$171.95
35	CHRISTOPHER & SHAWN DOOLEY	1503 GULF ROAD	ELYRIA	OH	44035	1500096000010	96	LAGRANGE	No	15.02	14.85	Instr. 2024-0030113	\$0.00	\$13,800.28	\$690.01
36	HADLOW PATRICK D & OBRIEN JOYCE J	17709 WHITEHEAD RD	LAGRANGE	OH	44050	1500064000006	64	LAGRANGE	No	1.00	0.95	Instr. 2024-0004382	\$0.00	\$886.76	\$44.34
37	HEATH CHARLES L	40673 WHITNEY ROAD	LAGRANGE	OH	44050	1500075000020	75	LAGRANGE	Yes	59.69	60.06	Instr. : 2019-0705181	\$0.00	\$55,819.22	\$2,790.96
38	PLAS JEFFREY A TRUSTEE & PLAS CYNTHIA C TRUSTEE	18364 ST RT 301 S	LAGRANGE	OH	44050	1500076000030	76	LAGRANGE	No	65.28	66.90	Instr. 2018-0686489	\$0.00	\$62,174.87	\$3,108.74
39	VAJAS BETH A	576 ERIN CR	MOUNT WASHINGTON	KY	40047	1500076000027	76	LAGRANGE	Yes	5.04	4.96	Instr. : 2005-0075441	\$0.00	\$4,608.26	\$230.41
40	MAITINO PAUL & MICHELLE	18791 ST RT 301	LAGRANGE	OH	44050	1500086000004	86	LAGRANGE	No	2.00	2.00	Instr. 2002-0850574	\$0.00	\$1,858.86	\$92.94
41	CSX TRANSPORTATION INC	500 WATER ST	JACKSONVILLE	FL	32202	1500064500001	64	LAGRANGE	Yes	34.95	5.98	Instr. 2000-0677885	\$0.00	\$5,559.32	\$277.97
42	GAUGHAN JOSEPH G JR & GAUGHAN STAGI L	41147 BUTTERNUT RIDGE RD	ELYRIA	OH	44035	1500077000022	77	LAGRANGE	No	2.08	2.08	Instr. 2013-0479135	\$0.00	\$1,931.73	\$96.59

Properties Adjacent to project are shown bold

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43	SOKOLOWSKI JOSEPH & JADWIGA & LA GRANGE	1953 PARKER RD	HINCKLEY	OH	44233	1500065900001	65	LAGRANGE	No	4.88	0.59	Instr. 1999-0595037	\$0.00	\$552.73	\$27.64
44	ABBOUD GEORGE & ABBODD MICHAEL	4093 SHELLY DR	SEVEN HILLS	OH	44131	1500074000009	74	LAGRANGE	No	19.08	0.57	Instr. 2007-0194923	\$0.00	\$531.51	\$26.58
45	FRENCH DAVID J & FRENCH EILEEN N	19741 ST RT 301 N	WELLINGTON	OH	44090	1500096000013	96	LAGRANGE	No	58.29	1.33	Instr. : 2016-0577552	\$0.00	\$1,234.84	\$61.74
46	RISTER STEVEN E & PATRICIA L	41811 WHITNEY RD	LAGRANGE	OH	44050	1500077000014	77	LAGRANGE	Yes	5.02	5.03	Instr. 2007-0225285	\$0.00	\$4,670.38	\$233.52
47	MCCASLIN MARVIN L & LOUISE A	40698 WHITNEY RD	LAGRANGE	OH	44050	1500066000012	66	LAGRANGE	No	4.08	4.06	Instr. 1979-0048618	\$0.00	\$3,775.35	\$188.77
48	HYSENJAI NERTIL	1362 PHELPS AVE	LAKEWOOD	OH	44107	1500076000034	76	LAGRANGE	Yes	3.14	3.13	Instr. 2023-0930176	\$0.00	\$2,910.26	\$145.51
49	KOCSIS RICHARD J & ELIZABETH	41297 WHITNEY RD	LAGRANGE	OH	44050	1500076000009	76	LAGRANGE	Yes	9.36	9.38	Instr. 1985-0181168	\$0.00	\$8,717.73	\$435.89
50	TERNES MELANIE SUE TRUSTEE	19192 INDIAN HOLLOW RD	GRAFTON	OH	44044	1500087000002	87	LAGRANGE	No	76.00	8.40	Instr. 2024-0007498	\$0.00	\$7,805.94	\$390.30
51	NOTLEY JOHN P & NOTLEY REBECCA D	44610 HUGHES RD	OVERLIN	OH	44074	1500084000004	84	LAGRANGE	No	12.07	2.10	Instr. 2023-0937630	\$0.00	\$1,953.67	\$97.68
52	HAMZA FRANKLIN M	18121 WHITEHEAD RD	LAGRANGE	OH	44050	1500077000005	77	LAGRANGE	No	1.70	1.70	Instr. 2013-0485996	\$0.00	\$1,582.98	\$79.15
53	CAMP LON JAMES	11703 State Route 303 S	LAGRANGE	OH	44050	1500067000001	67	LAGRANGE	No	2.41	0.05	Instr. 2016-0597701	\$0.00	\$42.49	\$2.12
54	ANDEL PAUL A & KAREN S	40836 WHITNEY	LAGRANGE	OH	44050	1500066000009	66	LAGRANGE	No	4.08	4.08	Instr. 1984-0159401	\$0.00	\$3,788.63	\$189.43
55	CONRAD FARMS	19900 INDIAN HOLLOW RD	GRAFTON	OH	44044	1500084000021	84	LAGRANGE	No	64.80	18.38	Instr. 2013-0485685	\$0.00	\$17,085.83	\$854.29
56	SOKOLOWSKI JOSEPH & JADWIGA	1953 PARKER RD	HINCKLEY	OH	44233	1500065000047	65	LAGRANGE	No	4.41	0.59	Instr. 1999-0595037	\$0.00	\$548.00	\$27.40
57	MILLER CHAD R	18565 LAGRANGE RD	LAGRANGE	OH	44050	1500086000008	86	LAGRANGE	No	6.25	6.35	Instr. 2004-0045263	\$0.00	\$5,897.45	\$294.87
58	GALLION BUDDY D & KATRINA J	18988 LAGRANGE RD	LAGRANGE	OH	44050	1500085000005	85	LAGRANGE	No	1.90	1.87	Instr. 2003-0927714	\$0.00	\$1,741.32	\$87.07
59	MEADOR BRENDA G	P O BOX 223	LAGRANGE	OH	44050	1500078000021	78	LAGRANGE	No	5.49	5.51	Instr. 2016-0605012	\$0.00	\$5,124.40	\$256.22
60	MYERS KEVIN J & MYERS NICOLE L	19170 ST RT 301	LAGRANGE	OH	44050	1500096000003	96	LAGRANGE	No	27.17	22.64	Instr. 2016-0601672	\$0.00	\$21,045.54	\$1,052.28
61	IZWORSKI TRACY A & IWANSKI MONICA J	17896 WHITEHEAD RD	LAGRANGE	OH	44050	1500063000033	63	LAGRANGE	No	2.72	2.72	Instr. 2001-0768899	\$0.00	\$2,527.24	\$126.36
62	CONROY JOSEPH P JR & SHERYL J	34492 FORTUNE CT	N RIDGEVILLE	OH	44039	1500074000023	74	LAGRANGE	No	19.15	19.05	Instr. 2006-0156247	\$0.00	\$17,705.38	\$885.27
63	JEWETT KEITH A TRUSTEE	17925 WHITEHEAD RD	LAGRANGE	OH	44050	1500064000016	64	LAGRANGE	Yes	8.58	8.48	Instr. 2007-0224767	\$0.00	\$7,885.88	\$394.29

Properties Adjacent to project are shown bold

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64	HALL DAVID E	439 S CENTER ST	LAGRANGE	OH	44050	1500075000021	75	LAGRANGE	No	4.00	3.99	Instr. 2021-0827484	\$0.00	\$3,710.59	\$185.53
65	MOZULSKI KARA H & PISCIONE CHAD RICHARD	18168 WHITEHEAD RD	LAGRANGE	OH	44050	1500078000015	78	LAGRANGE	No	5.03	5.05	Instr. 2021-0811674	\$0.00	\$4,692.79	\$234.64
66	HAYDN CONNOR & HAYDN JENNIFER	40030 WHITNEY RD	LAGRANGE	OH	44050	1500067000019	67	LAGRANGE	No	28.36	4.61	Instr. 2016-0591774	\$0.00	\$4,287.46	\$214.37
67	CROMER ALFRED L & SHIRLEY A	40548 WHITNEY RD	LAGRANGE	OH	44050	1500066000015	66	LAGRANGE	No	4.08	4.07	Instr. 1984-0169495	\$0.00	\$3,786.52	\$189.33
68	KC LAND HOLDINGS LLC	P O BOX 393	WELLINGTON	OH	44090	1500095000036	95	LAGRANGE	No	43.43	7.70	Instr. 2022-0865291	\$0.00	\$7,156.20	\$357.81
69	TERRY R SCOTT & SHARON A	17728 WHITEHEAD RD	LAGRANGE	OH	44050	1500063000037	63	LAGRANGE	Yes	5.62	5.65	Instr. 1991-0148563	\$0.00	\$5,250.74	\$262.54
70	WRIGHT STEPHEN C	18471 WHITEHEAD RD	LAGRANGE	OH	44050	1500077000017	77	LAGRANGE	No	2.02	2.02	Instr. 2005-0118489	\$0.00	\$1,873.28	\$93.66
71	MILESKEI DAVID B	19012 ST RT 301 S	LAGRANGE	OH	44050	1500085000009	85	LAGRANGE	No	0.72	0.60	Instr. 1995-0359841	\$0.00	\$553.88	\$27.69
72	EDWARDS KIMBERLY A	41817 WHITNEY RD	LAGRANGE	OH	44050	1500077000023	77	LAGRANGE	Yes	2.51	2.51	Instr. 2020-0792396	\$0.00	\$2,331.64	\$116.58
73	HENTHORN BRAD R	17262 FAIRWAY DR	LAGRANGE	OH	44050	1500066000004	66	LAGRANGE	No	19.10	13.08	Instr. 2019-0705921	\$0.00	\$12,159.32	\$607.97
74	RABER JASON E	300 EAST MAIN ST	LAGRANGE	OH	44050	1500076000023	76	LAGRANGE	No	4.04	4.03	Instr. 2007-0220774	\$0.00	\$3,743.79	\$187.19
75	ALLEN MARY A	40231 WHITNEY RD	LAGRANGE	OH	44050	1500074000019	74	LAGRANGE	No	28.00	12.85	Instr. 2002-0811307	\$0.00	\$11,940.06	\$597.00
76	LAGRANGE TOWNSHIP OF	P O BOX 565	LAGRANGE	OH	44050	1500077900004	77	LAGRANGE	No	1.51	1.55	Plat Ref. Vol 83 Pg. 75	\$0.00	\$1,437.77	\$71.89
77	WALTERS RANDALL	39993 WHITNEY RD	LAGRANGE	OH	44050	1500074000031	74	LAGRANGE	No	13.97	1.28	Instr. 2008-0260852	\$0.00	\$1,187.37	\$59.37
78	BARNES CHERIE L	40194 WHITNEY RD	LAGRANGE	OH	44050	1500067000011	67	LAGRANGE	No	3.73	3.72	Instr. 2006-0164498	\$0.00	\$3,454.66	\$172.73
79	SOKOLOWSKI JOSEPH & JADWIGA	1953 PARKER RD	HINCKLEY	OH	44233	1500065000048	65	LAGRANGE	No	4.41	0.05	Instr. 1999-0595037	\$0.00	\$48.70	\$2.43
80	MAY MARY ANN & MAY LARRY E JR	18273 WHITEHEAD RD	LAGRANGE	OH	44050	1500077000020	77	LAGRANGE	No	2.02	2.02	Instr. 2014-0498230	\$0.00	\$1,878.05	\$93.90
81	EMLING BERNARD E & TODOROVICH MERILEE	17925 STATE ROUTE 301	LAGRANGE	OH	44050	1500066000007	66	LAGRANGE	No	3.85	3.85	Instr. 1998-0558847	\$0.00	\$3,574.16	\$178.71
82	BEANE RYAN T & WYMER AMANDA R	18270 STATE ROUTE 301	LAGRANGE	OH	44050	1500076000028	76	LAGRANGE	No	4.03	4.03	Instr. 2025-0042390	\$0.00	\$3,744.44	\$187.22
83	LAGRANGE TOWNSHIP OF	P O BOX 565	LAGRANGE	OH	44050	1500077900001	77	LAGRANGE	No	1.85	1.10	Plat Ref. Vol 83 Pg. 75	\$0.00	\$1,018.74	\$50.94
84	MANTLE MICHAEL J & MANTLE CHERIE A	41219 WHITNEY RD	LAGRANGE	OH	44050	1500076000015	76	LAGRANGE	Yes	9.37	9.37	Instr. 2024-0037328	\$0.00	\$8,707.72	\$435.39

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List of Land Owners Claimed to be Benefited or Damaged

Lorain County Ditch Petition

Estimated Assessments

Foster Ditch

Total Project Cost = \$1,320,000

Total Benefitted = Ac. 1420.23

Annual Maint. Fee = \$66,000

Ditch Length = LF 8,614

Entry	Owners Name	Address	City	State	Zip	Parcel Number	Orig. Lot	Township	Adjacent	Acres Owned	Acres Benefited	Description	Damages	Assessment	Annual Maint.
85	PLAS CHARLES J	18615 STATE ROUTE 301	LAGRANGE	OH	44050	1500086000002	86	LAGRANGE	No	51.50	52.50	Instr. 2004-0007486	\$0.00	\$48,793.54	\$2,439.68
86	TRACY RANDY J	19250 ST RT 301 S	LAGRANGE	OH	44050	1500096000008	96	LAGRANGE	No	1.38	1.19	Instr. 2009-0295879	\$0.00	\$1,107.28	\$55.36
87	SUNKEL EARL A & CHRISTINE	18365 RT 301	LAGRANGE	OH	44050	1500075000013	75	LAGRANGE	No	0.92	0.92	Instr. 2001-0756918	\$0.00	\$857.75	\$42.89
88	GEEN JUSTIN H & GEEN NICOLE M	17801 WHITEHEAD RD	LAGRANGE	OH	44050	1500064000011	64	LAGRANGE	No	19.35	14.43	Instr. 2020-0792892	\$0.00	\$13,412.03	\$670.60
89	PLAS CHARLES J	18615 STATE ROUTE 301	LAGRANGE	OH	44050	1500086000005	86	LAGRANGE	No	40.00	32.30	Instr. 2004-0007486	\$0.00	\$30,019.62	\$1,500.98
90	BUCHNER ALEXANDER	42077 WHITNEY RD	LAGRANGE	OH	44050	1500078000028	78	LAGRANGE	No	4.00	1.93	Instr. 2021-0827287	\$0.00	\$1,798.16	\$89.91
91	HEBE BRAND DAVID M & RACHAEL M	17802 STATE ROUTE 301	LAGRANGE	OH	44050	1500065000015	65	LAGRANGE	No	0.71	0.24	Instr. 1999-0612189	\$0.00	\$218.80	\$10.94
92	SOKOLOWSKI JOSEPH & JADWIGA	1953 PARKER RD	HINCKLEY	OH	44233	1500065000045	65	LAGRANGE	No	4.33	2.34	Instr. 1999-0595037	\$0.00	\$2,173.35	\$108.67
93	BALLARD JOE G JR	18022 STATE ROUTE 301	LAGRANGE	OH	44050	1500076000035	76	LAGRANGE	No	3.38	3.37	Instr. 2003-0962593	\$0.00	\$3,136.21	\$156.81
94	CRABEELS JEFFREY S & STACI N	41365 WHITNEY RD	LAGRANGE	OH	44050	1500076000031	76	LAGRANGE	No	2.20	2.20	Instr. 2007-0219331	\$0.00	\$2,048.36	\$102.42
95	TOLBERT DONALD R & SALLY R	18289 ST RT 301	LAGRANGE	OH	44050	1500075000007	75	LAGRANGE	No	0.79	0.79	Vol. 1139 Pg. 39	\$0.00	\$734.05	\$36.70
96	GOBLE JESSICA LEIGH & GOBLE JAMES PRESTON	41230 WHITNEY RD	LAGRANGE	OH	44050	1500065000033	65	LAGRANGE	No	4.00	3.99	Instr. 2021-0827968	\$0.00	\$3,707.20	\$185.36
97	MILLER DOUGLAS M & MILLER SHANNON M	231 EASTERN AVE	OVERLIN	OH	44074	1500063000045	63	LAGRANGE	No	8.50	2.00	Instr. 2024-0000861	\$0.00	\$1,855.82	\$92.79
98	HARTLEY CLAYTON SPENCER	19070 ST RT 301	LAGRANGE	OH	44050	1500096000011	96	LAGRANGE	No	14.98	15.12	Instr. 2021-0835280	\$0.00	\$14,050.35	\$702.52
99	FISH JAMES H TRUSTEE	41813 WHITNEY RD	LAGRANGE	OH	44050	1500077000015	77	LAGRANGE	Yes	3.85	3.86	Instr. 2017-0618000	\$0.00	\$3,585.76	\$179.29
100	SABO JOSEPH J & ANN M	41420 WHITNEY RD	LAGRANGE	OH	44050	1500065000030	65	LAGRANGE	No	4.00	3.68	Instr. 1996-0436208	\$0.00	\$3,415.93	\$170.80
101	KARLESKINT MIKE & MARY	40798 WHITNEY RD	LAGRANGE	OH	44050	1500066000010	66	LAGRANGE	Yes	4.08	4.07	Instr. 2007-0207941	\$0.00	\$3,785.20	\$189.26
102	SMITH NANCY A & SMITH TED H	40260 WHITNEY RD	LAGRANGE	OH	44050	1500067000022	67	LAGRANGE	No	31.04	13.63	Instr. 2009-0286188	\$0.00	\$12,667.82	\$633.39
103	NOTLEY JOHN P & NOTLEY REBECCA D	44610 HUGHES RD	OVERLIN	OH	44074	1500097000001	97	LAGRANGE	No	8.28	1.89	Instr. 2023-0937630	\$0.00	\$1,755.29	\$87.76
104	DUPLAGA KATHLEEN A TRUSTEE	18759 INDIAN HOLLOW RD	GRAFTON	OH	44044	1500087000003	87	LAGRANGE	No	7.50	0.16	Instr. 2008-0261044	\$0.00	\$145.50	\$7.28
105	TYGART TIMOTHY J & JANET L	40632 WHITNEY RD	LAGRANGE	OH	44050	1500066000013	66	LAGRANGE	No	4.08	4.06	Instr. 1992-0168805	\$0.00	\$3,774.31	\$188.72

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List of Land Owners Claimed to be Benefited or Damaged

Lorain County Ditch Petition

Estimated Assessments

Foster Ditch

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Ditch Length = LF 8,614

Entry	Owners Name	Address	City	State	Zip	Parcel Number	Orig. Lot	Township	Adjacent	Acres Owned	Acres Benefited	Description	Damages	Assessment	Annual Maint.
106	PHELPS MARK A & PHELPS JENNIFER C	40357 WHITNEY ROAD	LAGRANGE	OH	44050	1500074000003	74	LAGRANGE	No	19.08	16.45	Instr. 2010-0333244	\$0.00	\$15,289.74	\$764.49
107	HADLOW PATRICK D & OBRIEN JOYCE J	17709 WHITEHEAD RD	LAGRANGE	OH	44050	1500064000008	64	LAGRANGE	No	0.14	0.10	Instr. 2024-0004382	\$0.00	\$91.72	\$4.59
108	NOTLEY JOHN P & NOTLEY REBECCA D	44610 HUGHES RD	OVERLIN	OH	44074	1500084000005	84	LAGRANGE	No	12.07	2.67	Instr. 2023-0937630	\$0.00	\$2,478.23	\$123.91
109	BOGGS JEREMY D	18359 WHITEHEAD RD	LAGRANGE	OH	44050	1500077000018	77	LAGRANGE	No	2.02	2.02	Instr. 2012-0414529	\$0.00	\$1,878.03	\$93.90
110	BEALL JOHN D	448 HENDRIX BLVD	LAGRANGE	OH	44050	1500097000041	97	LAGRANGE	No	32.12	1.55	Instr. 2007-0191425	\$0.00	\$1,437.48	\$71.87
111	LAGRANGE TOWNSHIP	P O BOX 565	LAGRANGE	OH	44050	1500066900001	66	LAGRANGE	Yes	2.84	2.63	Plat Ref. Vol. 33 Pg. 37	\$0.00	\$2,442.36	\$122.12
112	KUHL BRODY L	42180 WHITNEY RD	LAGRANGE	OH	44050	1500063000029	63	LAGRANGE	No	1.68	0.88	Instr. 2019-0742254	\$0.00	\$814.25	\$40.71
113	HECK PETER W & TAMMY L	17826 S R 301	LAGRANGE	OH	44050	1500065000021	65	LAGRANGE	No	0.71	0.71	Instr. 2003-0940750	\$0.00	\$661.47	\$33.07
114	KILLIANY GARY A & MALINDA M	39978 WHITNEY RD	LAGRANGE	OH	44050	1500068000019	68	LAGRANGE	No	5.95	0.43	Instr. 1986-0232416	\$0.00	\$398.39	\$19.92
115	FATZ RANDALL A	PO BOX 508	LAGRANGE	OH	44050	1500086000009	86	LAGRANGE	No	13.75	13.89	Instr. 2008-0241610	\$0.00	\$12,913.95	\$645.70
116	CAMP LON JAMES	17703 State Route 301 S	LAGRANGE	OH	44050	1500067000003	67	LAGRANGE	No	43.44	22.33	Instr. 2016-0597701	\$0.00	\$20,753.40	\$1,037.67
117	MOROG DUSTIN TRUSTEE & MOROG AMANDA	41470 WHITNEY RD	LAGRANGE	OH	44050	1500065000055	65	LAGRANGE	No	4.00	3.38	Instr. 2016-0609977	\$0.00	\$3,144.94	\$157.25
118	SPITZER A TEAM	150 E BRIDGE STREET	ELYRIA	OH	44035	1500078000023	78	LAGRANGE	No	46.12	0.45	Instr. 2005-0064822	\$0.00	\$415.87	\$20.79
119	MCCULLOUGH DAVID L II & ANGEL	40099 WHITNEY RD	LAGRANGE	OH	44050	1500074000014	74	LAGRANGE	No	0.09	0.08	Instr. 2008-0277950	\$0.00	\$73.33	\$3.67
120	HOLCOMB OTHO II	40490 WHITNEY RD	LAGRANGE	OH	44050	1500066000016	66	LAGRANGE	No	19.09	17.38	Instr. 1978-0994701	\$0.00	\$16,148.91	\$807.45
121	DECHANT THELMA M	44610 HUGHES RD	OVERLIN	OH	44074	1500077000012	77	LAGRANGE	Yes	78.10	61.31	Instr. 2005-0054035	\$0.00	\$56,983.22	\$2,849.16
122	BOHATY KEVIN A & SHARON L	18356 WHITEHEAD RD	LAGRANGE	OH	44050	1500078000013	78	LAGRANGE	No	5.49	1.60	Instr. 2002-0879864	\$0.00	\$1,482.63	\$74.13
123	BARANOWSKI PAUL G & MARY JO	41483 WHITNEY RD	LAGRANGE	OH	44050	1500076000003	76	LAGRANGE	Yes	5.62	5.46	Instr. 1997-0470243	\$0.00	\$5,072.35	\$253.62
124	MCLAUGHLIN JEFFREY L	41840 WHITNEY RD	LAGRANGE	OH	44050	1500064000004	64	LAGRANGE	No	2.93	2.96	Instr. 2024-0026281	\$0.00	\$2,755.24	\$137.76
125	MONROE THOMAS K & MONROE CHRISTINE T	17918 WHITEHEAD RD	LAGRANGE	OH	44050	1500063000034	63	LAGRANGE	No	2.51	2.53	Instr. 2019-0726959	\$0.00	\$2,348.11	\$117.41
126	NIX DAYNA L & NIX ANDREW S	19173 ST RT 301	LAGRANGE	OH	44050	1500095000034	95	LAGRANGE	No	2.27	2.27	Instr. 2016-0605496	\$0.00	\$2,112.38	\$105.62

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Ditch Length = LF 8,614

Lorain County Ditch Petition

Estimated Assessments

Foster Ditch

Entry	Owners Name	Address	City	State	Zip	Parcel Number	Orig. Lot	Township	Adjacent	Acres Owned	Acres Benefited	Description	Damages	Assessment	Annual Maint.
127	MORELL CRAIG & MORELL BRETT	18271 WHITEHEAD RD	LAGRANGE	OH	44050	1500077000021	77	LAGRANGE	No	2.02	2.02	Instr. 2023-0927763	\$0.00	\$1,877.96	\$93.90
128	CHURCH JOHN STANLEY & LAVIGNE CATHERINE C	40415 WHITNEY RD	LAGRANGE	OH	44050	1500074000020	74	LAGRANGE	No	19.19	19.19	Instr. 2023-0914176	\$0.00	\$17,751.75	\$887.59
129	KLINECT ROGER A & CYNTHIA S	41331 WHITNEY RD	LAGRANGE	OH	44050	1500076000010	76	LAGRANGE	No	5.61	5.63	Instr. 1979-0023174	\$0.00	\$5,230.79	\$261.54
130	HARDMAN DEWARD C JR & MILBURN DIANE L	18123 ST RT 301 S	LAGRANGE	OH	44050	1500075000017	75	LAGRANGE	No	10.00	10.05	Instr. 2009-0308266	\$0.00	\$9,341.01	\$467.05
131	INGERSOLL JEFFERY A & INGERSOLL KATHRYN J	42157 WHITNEY RD	LAGRANGE	OH	44050	1500078000029	78	LAGRANGE	No	8.69	0.75	Instr. 2013-0469413	\$0.00	\$700.81	\$35.04
132	HALL DAVID E	439 S CENTER ST	LAGRANGE	OH	44050	1500075000009	75	LAGRANGE	No	1.00	1.00	Instr. 2013-0450381	\$0.00	\$929.23	\$46.46
133	CERMAK WILLIAM C & NITA J	40119 WHITNEY RD	LAGRANGE	OH	44050	1500074000026	74	LAGRANGE	No	16.63	2.82	Instr. 2000-0677003	\$0.00	\$2,616.34	\$130.82
134	BRUNER LAND COMPANY INC	P O BOX 98	BYESVILLE	OH	43273	1500064000015	64	LAGRANGE	No	61.56	0.56	Instr. 2022-0876092	\$0.00	\$516.84	\$25.84
135	SCOTCH DENISE R	P O BOX 801	WEST SALEM	OH	44287	1500074000032	74	LAGRANGE	No	4.40	2.16	Instr. 2000-0677007	\$0.00	\$2,011.12	\$100.56
136	HARLESS STEVEN M	41821 WHITNEY RD	LAGRANGE	OH	44050	1500077000024	77	LAGRANGE	Yes	2.22	2.22	Instr. 2017-0650112	\$0.00	\$2,063.26	\$103.16
137	GALLION BUDDY D & KATRINA J	18988 LAGRANGE RD	LAGRANGE	OH	44050	1500085000006	85	LAGRANGE	No	2.00	2.01	Instr. 2003-0927714	\$0.00	\$1,871.55	\$93.58
138	WRIGHT REBECCA LEIGH & BUSH MATTHEW J	40748 WHITNEY RD	LAGRANGE	OH	44050	1500066000011	66	LAGRANGE	Yes	4.08	4.07	Instr. 2019-0704132	\$0.00	\$3,779.89	\$188.99
139	PLAS LAWRENCE R	36637 GRAFTON EASTERN RD	GRAFTON	OH	44044	1500076000029	76	LAGRANGE	No	1.38	1.38	Instr. 2006-0165469	\$0.00	\$1,280.31	\$64.02
140	SMITH NANCY A	40260 WHITNEY RD	LAGRANGE	OH	44050	1500067000023	67	LAGRANGE	No	2.45	2.47	Instr. 2004-0979342	\$0.00	\$2,292.18	\$114.61
141	FRENCH DAVID J & FRENCH EILEEN N	19404 STATE ROUTE 301 S	LAGRANGE	OH	44050	1500096000009	96	LAGRANGE	No	24.14	0.72	Instr. 2016-0577552	\$0.00	\$665.30	\$33.27
142	PUKA MARVIN J & DAWN M	41431 WHITNEY RD	LAGRANGE	OH	44050	1500076000033	76	LAGRANGE	Yes	12.78	12.79	Instr. 2007-0212574	\$0.00	\$11,883.86	\$594.19
143	ARTS ROBERT & FRENCH DARLA G	40048 WHITNEY RD	LAGRANGE	OH	44050	1500067000020	67	LAGRANGE	No	4.02	4.01	Instr. 2023-0928704	\$0.00	\$3,730.60	\$186.53
144	MARQUIS MICHELE L	19034 ST RT 301	LAGRANGE	OH	44050	1500096000006	96	LAGRANGE	No	9.28	9.27	Instr. 2024-0002578	\$0.00	\$8,616.25	\$430.81
145	POGACSNIK TIMOTHY G	17970 LAGRANGE RD	LAGRANGE	OH	44050	1500065000096	65	LAGRANGE	No	10.38	10.27	Instr. 2011-0376876	\$0.00	\$9,545.87	\$477.29
146	FITZGERALD MARIO C	18158 STATE ROUTE 301	LAGRANGE	OH	44050	1500076000025	76	LAGRANGE	Yes	4.93	4.98	Instr. 2015-0569065	\$0.00	\$4,630.42	\$231.52
147	IRWIN JOSEPH E & LAUREL J	41183 WHITNEY RD	LAGRANGE	OH	44050	1500076000017	76	LAGRANGE	Yes	5.62	5.62	Instr. 1997-0496005	\$0.00	\$5,223.16	\$261.16

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Lorain County Ditch Petition

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148	PLAS CHARLES J	18615 STATE ROUTE 301	LAGRANGE	OH	44050	1500095000037	95	LAGRANGE	No	1.38	1.38	Instr. 2005-0071544	\$0.00	\$1,279.99	\$64.00
149	JEWETT GERALD R TRUSTEE	18108 WHITEHEAD RD	LAGRANGE	OH	44050	1500078000003	78	LAGRANGE	No	5.00	5.07	Instr. 2003-0909023	\$0.00	\$4,715.80	\$235.79
150	HARTSEL NANCY J TRUSTEE	2029 N RIDGE RD	LORAIN	OH	44055	1500087000001	87	LAGRANGE	No	7.50	7.77	Instr. 2022-0863089	\$0.00	\$7,221.47	\$361.07
151	WHITE JEFFREY T & WHITE JODY A	17884 LAGRANGE	LAGRANGE	OH	44050	1500065000017	65	LAGRANGE	No	1.42	1.42	Instr. 2021-0851392	\$0.00	\$1,322.87	\$66.14
152	PLAS JEFFREY A TRUSTEE & PLAS CYNTHIA C TRUSTEE	18364 ST RT 301 S	LAGRANGE	OH	44050	1500064000005	64	LAGRANGE	No	55.32	25.47	Instr. 2018-0686489	\$0.00	\$23,673.21	\$1,183.66
153	SOKOLOWSKI JOSEPH & JADWIGA	1953 PARKER RD	HINCKLEY	OH	44233	1500065000046	65	LAGRANGE	No	4.41	1.54	Instr. 1999-0595037	\$0.00	\$1,430.88	\$71.54
154	BENTON FLORENCE ANNE	18161 ST ROUTE 301	LAGRANGE	OH	44050	1500075000022	75	LAGRANGE	No	4.00	4.01	Instr. 2006-0142643	\$0.00	\$3,724.89	\$186.24
155	PLAS CHARLES J	18615 STATE ROUTE 301	LAGRANGE	OH	44050	1500086000003	86	LAGRANGE	No	49.50	48.21	Instr. 2004-0007486	\$0.00	\$44,804.15	\$2,240.21
156	MCCULLOUGH DAVID L II & ANGEL	40099 WHITNEY RD	LAGRANGE	OH	44050	1500074000008	74	LAGRANGE	No	0.36	0.36	Instr. 2008-0277950	\$0.00	\$332.37	\$16.62
157	ALHEIT ALEX & ALHEIT ABIGAIL	17811 ST RT 301	LAGRANGE	OH	44050	1500066000005	66	LAGRANGE	No	3.85	3.63	Instr. 2022-0870346	\$0.00	\$3,377.81	\$168.89
158	SMITH TAMMY WARING & STEVEN R	17790 WHITEHEAD RD	LAGRANGE	OH	44050	1500063000038	63	LAGRANGE	Yes	29.11	13.01	Instr. 2009-0299201	\$0.00	\$12,094.67	\$604.73
159	RACEY SUSAN L	40112 WHITNEY RD	LAGRANGE	OH	44050	1500067000013	67	LAGRANGE	No	2.66	2.70	Instr. 2010-0343216	\$0.00	\$2,506.58	\$125.33
160	WITHROW DAWN MICHELLE & WITHROW MICHELLE	18513 ST RT 301	LAGRANGE	OH	44050	1500086000006	86	LAGRANGE	No	5.00	5.08	Instr. 2020-0779804	\$0.00	\$4,718.14	\$235.91
161	FISHER ROBERT A SR & JUDY E	18760 STATE ROUTE 301	LAGRANGE	OH	44050	1500085000010	85	LAGRANGE	No	11.72	11.84	Instr. 2004-0016506	\$0.00	\$11,003.63	\$550.18
162	SAUER RICHARD D & MARILYN A	18292 WHITEHEAD RD	LAGRANGE	OH	44050	1500078000014	78	LAGRANGE	No	5.49	5.30	Instr. 1992-0198097	\$0.00	\$4,925.33	\$246.27
163	PICKETT JOSEPH J & VICKI G	17975 S R 301	LAGRANGE	OH	44050	1500066000008	66	LAGRANGE	No	4.15	4.15	Instr. 1990-0104967	\$0.00	\$3,854.46	\$192.72
164	ANNEY JOSEPH P	17850 ROUTE 301	LAGRANGE	OH	44050	1500065000022	65	LAGRANGE	No	0.71	0.71	Instr. 2022-0891323	\$0.00	\$661.41	\$33.07
165	ERICKSON LAND LLC	20270 STATE ROUTE 511	WELLINGTON	OH	44090	1500075000014	75	LAGRANGE	No	36.86	36.53	Instr. 2024-0009047	\$0.00	\$33,951.62	\$1,697.58
166	LAGRANGE TOWNSHIP OF	P O BOX 565 LAGRANGE, OH 44050	LAGRANGE	OH	44050	1500077900002	77	LAGRANGE	No	0.35	0.34	Plat Ref. Vol. 83 Pg. 75	\$0.00	\$318.66	\$15.93
167	HUFFMAN CHEYENNE & HUFFMAN TAYLOR	18021 ST RT 301	LAGRANGE	OH	44050	1500075000019	75	LAGRANGE	Yes	2.31	2.31	Instr. 2020-0762657	\$0.00	\$2,147.57	\$107.38
168	PLAS JEFFREY A TRUSTEE & PLAS CYNTHIA C	18364 ST RT 301 S	LAGRANGE	OH	44050	1500077000002	77	LAGRANGE	Yes	50.10	50.37	Instr. 2018-0686489	\$0.00	\$46,811.43	\$2,340.57

Properties Adjacent to project are shown bold

List of Land Owners Claimed to be Benefited or Damaged

Lorain County Ditch Petition

Estimated Assessments

Foster Ditch

Total Project Cost = \$1,320,000

Total Benefitted = Ac. 1420.23

Annual Maint. Fee = \$66,000

Ditch Length = LF 8,614

Entry	Owners Name	Address	City	State	Zip	Parcel Number	Orig. Lot	Township	Adjacent	Acres Owned	Acres Benefited	Description	Damages	Assessment	Annual Maint.
169	JUSTEN KENT J	19045 WHITEHEAD RD	LAGRANGE	OH	44050	1500097000042	97	LAGRANGE	No	8.01	1.43	Instr. 2006-0162289	\$0.00	\$1,331.00	\$66.55

Properties Adjacent to project are shown bold

Appendix B

Engineer's Cost Estimate

COST ESTIMATE						
Foster Ditch Restoration						
LaGrange Twp., Lorain County, Ohio						
June 2, 2025						
TOTAL DITCH LENGTH			9,355	FT	1.77	MILES
REF. No.	ODOT ITEM	DESCRIPTION	QT	UNIT	UNIT COST	TOTAL COST
STANDARD DITCH SECTION						
1	103	Premium for Contract Performance Bond	1	LS	\$ 16,000.00	\$ 16,000.00
2	201	Clearing and Grubbing, as per plan	6.9	AC	\$ 16,000.00	\$ 110,400.00
3	SPC	Temporary Timber Matting	280	FT	\$ 110.00	\$ 30,800.00
4	202	Fence Removed	33	FT	\$ 18.00	\$ 594.00
5	203	Excavation, as per plan	1,365	CY	\$ 11.00	\$ 15,015.00
6	203	Embankment, as per plan	35	CY	\$ 15.00	\$ 525.00
7	203	Topsoil Stockpile and Replacement	45	CY	\$ 11.00	\$ 495.00
8	203	Spoils Removal - Hauling and Disposal	1,285	CY	\$ 11.00	\$ 14,135.00
9	601	Rock Channel Protection, Type B, With Filter, as directed	35	CY	\$ 150.00	\$ 5,250.00
10	601	Rock Channel Protection, Type C, With Filter, as per plan	3	CY	\$ 140.00	\$ 420.00
11	601	Rock Channel Protection, Type D, With Filter, as directed	50	CY	\$ 140.00	\$ 7,000.00
12	602	Concrete Masonry	1	CY	\$ 2,000.00	\$ 2,000.00
13	611	4"-8" Conduit, Type E, as directed	50	FT	\$ 45.00	\$ 2,250.00
14	611	10"-12" Conduit, Type E, as directed	50	FT	\$ 50.00	\$ 2,500.00
15	611	12" Conduit, Type D, 707.33, as per plan	27	FT	\$ 105.00	\$ 2,835.00
16	623	Construction Layout Stakes and Surveying	1	LS	\$ 15,000.00	\$ 15,000.00
17	624	Mobilization	1	LS	\$ 15,000.00	\$ 15,000.00
18	659	Seeding and Mulching, Class 2, as per plan	30,205	SY	\$ 1.75	\$ 52,858.75
19	671	Erosion Control Mat, Type B	2,695	SY	\$ 5.00	\$ 13,475.00
20	614	Maintaining Traffic	1	LS	\$ 15,000.00	\$ 15,000.00
21	832	Construction Entrance, as per plan	45	CY	\$ 130.00	\$ 5,850.00
22	832	Erosion Control, as per plan	34,000	EA	\$ 1.00	\$ 34,000.00
23	832	Stormwater Pollution Prevention Plan	1	LS	\$ 10,000.00	\$ 10,000.00
24	SPC	Permanent Access Drive, as per plan	3	EA	\$ 3,700.00	\$ 11,100.00
25	SPC	Ditch Access Sign, as per plan	3	EA	\$ 600.00	\$ 1,800.00
SUBTOTAL CONSTRUCTION					\$	384,302.75
SOFT COSTS (20%)					\$	76,861.25
TOTAL COST					\$	461,164.00
CONSERVATION DITCH SECTION 1						
26	201	Clearing and Grubbing, as per plan	3.9	AC	\$ 16,000.00	\$ 62,400.00
27	203	Excavation, as per plan	5,190	CY	\$ 11.00	\$ 57,090.00
28	203	Spoils Removal - Hauling and Disposal	5,190	CY	\$ 11.00	\$ 57,090.00
29	611	Field tile connections	5	EA	\$ 550.00	\$ 2,750.00
30	659	Seeding and Mulching, Class 2, as per plan	12,800	SY	\$ 1.75	\$ 22,400.00
31	671	Erosion Control Mat, Type B	3,705	SY	\$ 5.00	\$ 18,525.00
32	SPC	Ditch Access Sign, as per plan	1	EA	\$ 600.00	\$ 600.00
SUBTOTAL CONSTRUCTION					\$	220,855.00
SOFT COSTS (20%)					\$	44,163.50
TOTAL COST					\$	265,018.50
CONSERVATION DITCH SECTION 2						
33	201	Clearing and Grubbing, as per plan	1.9	AC	\$ 16,000.00	\$ 30,400.00
34	203	Excavation, as per plan	970	CY	\$ 11.00	\$ 10,670.00
35	203	Embankment, as per plan	45	CY	\$ 15.00	\$ 675.00
36	203	Topsoil Stockpile and Replacement	45	CY	\$ 11.00	\$ 495.00
37	203	Spoils Removal - Hauling and Disposal	880	CY	\$ 11.00	\$ 9,680.00
38	611	Field tile connections	5	EA	\$ 550.00	\$ 2,750.00
39	659	Seeding and Mulching, Class 2, as per plan	9,035	SY	\$ 1.75	\$ 15,811.25
40	671	Erosion Control Mat, Type B	1,385	SY	\$ 5.00	\$ 6,925.00
41	832	Construction Entrance, as per plan	45	CY	\$ 130.00	\$ 5,850.00
42	SPC	Permanent Access Drive, as per plan	3	EA	\$ 3,700.00	\$ 11,100.00
43	SPC	Ditch Access Sign, as per plan	2	EA	\$ 600.00	\$ 1,200.00
SUBTOTAL CONSTRUCTION					\$	95,556.25
SOFT COSTS (20%)					\$	23,231.25
TOTAL COST					\$	118,787.50
NOTES:					CONSTRUCTION SUBTOTAL	
Soft cost includes engineering cost, wetland review, bidding, construction administration and inspection.					\$ 844,970.00	
					CONTINGENCY (20%)	
					\$ 169,000.00	
					TOTAL CONSTRUCTION COST	
					\$ 1,013,970.00	
					ANNUAL MAINTENANCE (5%)	
					\$ 50,800.00	
					SOFT COSTS	
					\$ 255,230.00	
					PROJECT SUBTOTAL	
					\$ 1,320,000.00	
TOTAL ESTIMATED PROJECT COST (CURRENT CONSTRUCTION)					\$ 1,320,000.00	
TOTAL PROJECT COST PER FT					\$ 141.10	

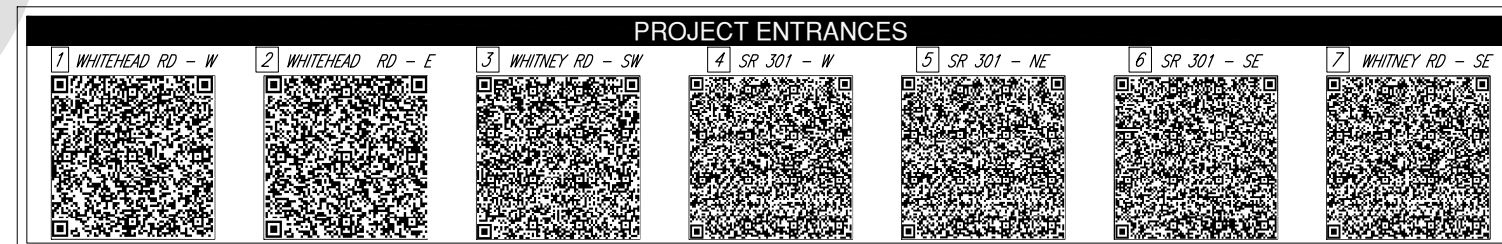
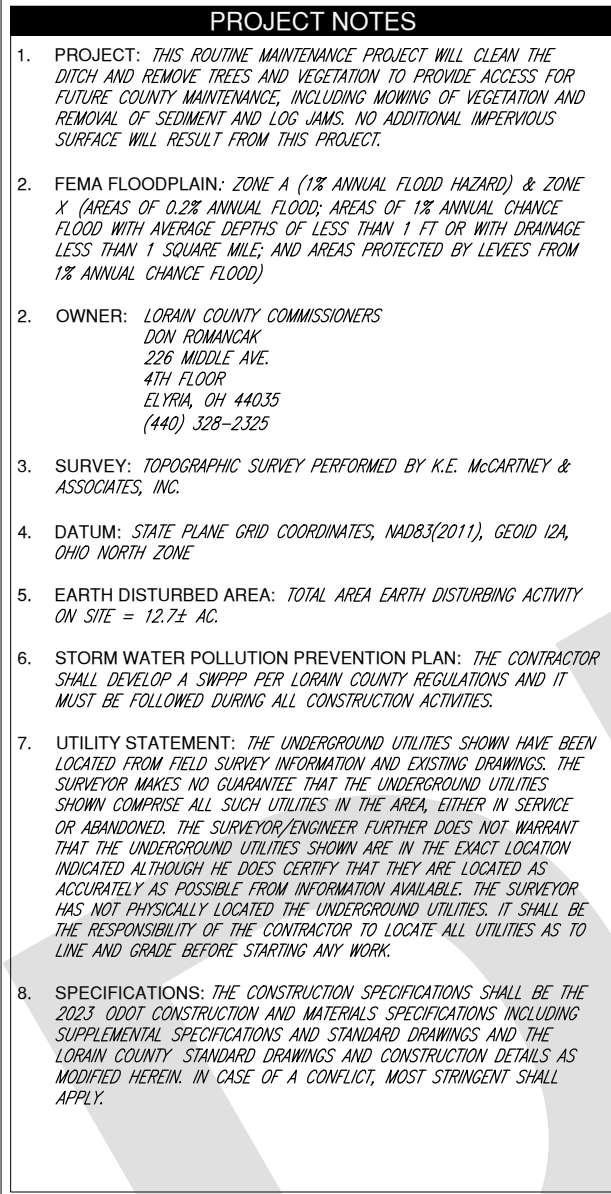
Statements of Probable Construction Cost and Detailed Cost Estimates prepared by the Engineer represent his best judgment as a design professional familiar with the construction industry. It is recognized, however, that the Engineer has no control over the cost of labor, materials, or equipment, over the contractors methods of determining bid prices, or over market conditions. Accordingly, the Engineer cannot and does not guarantee that bids will not vary from any Statement of Probable Construction Cost or other cost estimates prepared by him.

Probable Cost of Construction Certified by Alex E. Alt
 Alex E. Alt, P.E.
 Project Manager

Appendix C

Final Plan

DRAFTED BY K.E. MCCARTNEY & ASSOCIATES, INC., Z:\GS\GS-814 Foster Ditch LCSWMD\Basemap\GS-814-Foster-M.dwg\TS 1\jpfeifer



LEGEND

• M.N.S. MAGNAIL SPIKE SET-2" LONG	-EX. R/W-	EX RIGHT OF WAY
 MONUMENT BOX FOUND	ESMT	PR EASEMENT
○ I.P.F. IRON PIN FOUND	==	EX STORM SEWER
● I.P.S. IRON PIN SET	==	EX SANITARY SEWER
⊗ RAILROAD SPIKE FOUND	-W-	EX WATER LINE
⊕ BENCHMARK	-G-	EX GAS LINE
⌚ PROPERTY LINE	-E-	EX ELECTRIC LINE
⌚ OWNERSHIP HOOK	-OHE-	EX OVERHEAD ELECTRIC LINE
⌚ EX STORM SEWER MANHOLE	-T-	EX TELEPHONE LINE
⌚ OR ⌚ EX CATCH BASIN	-X-	EX FENCE
 EX UNKNOWN UTILITY BOX	ⓈA	EX SANITARY MANHOLE
 EX TELEPHONE BOX/PED.	⌚	EX CLEAN-OUT
 EX TELEPHONE MANHOLE	⌚ OR ⌚	EX PUBLIC SIGN
 EX TELEPHONE/POWER POLE		EX SHRUB
 EX TELE./POWER/LIGHT POLE		EX TREE
 EX TELEPHONE POLE		EX STUMP
 EX LIGHT POLE		EX TREE (SAVE)
 EX POWER POLE		EX TREE (REMOVE)
 GUY ANCHOR (DEAD MAN)	○	EX POST
 EX WATER VALVE		EX MAILBOX
⌚ W EX WATERLINE MARKER	○	EX LANDSCAPING STONE
 EX FIRE HYDRANT	AC	EX AIR CONDITIONING UNIT
 EX SERVICE STOP		EX GAS VALVE
 EX ELECTRIC METER		EX GAS METER
 EX UNKNOWN VALVE	+G	EX GAS LINE MARKER
 POTENTIAL WETLAND		SEDIMENT REMOVAL PT
 TIMBER MATTING	●	LOGJAM REMOVAL PT
 AGGREGATE DRIVE		OBSTRUCTION REMOVAL PT
 ROCK CHANNEL PROTECTION		
 PAVEMENT REPL./ PR SHLDR.		

PRELIMINARY NOT FOR CONSTRUCTION	DRAFT 06 ALEX E. ALT, P.E. 06/02/2025 DATE
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DESIGNED	DRAWN	CHECKED
AEA	IAP	MWR
REVISION		DATE
DRAFT 06		06/02/2025
SHEET NAME		
TITLE SHEET		
SHEET NUMBER		
1	/	52

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, INC., Z:\GS\GS-814_Foster Ditch LCS\WMD\Basemap\GS-814-Foster-M.dwg (N 1) pfeiffer

1. GENERAL: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILED PLANS, AS OUTLINED IN THE PROJECT SPECIFICATIONS, AND SHALL MEET THE RULES AND REGULATIONS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY, LORAIN COUNTY AND ALL OTHER GOVERNING CODES AND AGENCIES UNLESS HERE-IN-AFTER AMENDED. IN CASE OF CONFLICT BETWEEN APPLICABLE RULES, REGULATIONS, STANDARDS OR REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF ALL PERSONS, INCLUDING EMPLOYEES, AND PROPERTY.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR. THE COST OF SAID SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO PROVIDE AND REQUIRE A COMPLETED PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM SUCH CONTRACT DOCUMENTS WHICH ARE CLEARLY NECESSARY FOR THE COMPLETION OF SUCH WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK ALTHOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE CONTRACT DOCUMENTS.

ANY DEFECTS IN CONSTRUCTION, INCLUDING MATERIAL OR WORKMANSHIP, SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO THE ACCEPTANCE BY THE OWNER. THE COST SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

ANY MODIFICATIONS OF THE WORK AS SHOWN ON THESE APPROVED PLANS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE OWNER.

2. PROJECT SPECIFICATIONS: THE CONSTRUCTION SPECIFICATIONS SHALL BE THE 2023 ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS INCLUDING SUPPLEMENTAL SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS AND THE LORAIN COUNTY STANDARD DRAWINGS AND CONSTRUCTION DETAILS AS MODIFIED HEREIN. IN CASE OF A CONFLICT, MOST STRINGENT SHALL APPLY.

STANDARD CONSTRUCTION DRAWINGS	
DETAIL	OWNER/DRAWING No.
OUTLETS, DRAINS, SEWERS	ODOT DM-1.1
CONDUIT INSTALLATION	ODOT DM-1.4
HEADWALL-HALF HT.	ODOT HW-2.1
CONSTRUCTION EROSION CONTROL	ODOT DM-4.4
FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY - STATIONARY OPERATION	ODOT MT-97.10
CURRENT DRAWING AT TIME OF PLAN DATE SHALL APPLY	

3. INSPECTION: ALL CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY LORAIN COUNTY.
4. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE COUNTY 48 HOURS BEFORE STARTING WORK. NOTIFY ALL RESIDENTS AND OWNERS 48 HOURS IN ADVANCE OF ENTERING PRIVATE PROPERTY.
5. SCALE: DO NOT SCALE THESE DRAWINGS AS THEY ARE REPRODUCTIONS AND SUBJECT TO DISTORTION AND/OR SIZE REDUCTION.
6. CONTINGENCY QUANTITIES: THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.
7. CONSTRUCTION LAYOUT: NO COORDINATES OR BEARINGS HAVE BEEN SHOWN ON THESE DRAWINGS FOR HORIZONTAL CONTROL. THE CONTRACTOR SHALL BE PROVIDED WITH ELECTRONIC FILES FOR CONSTRUCTION LAYOUT AT HIS REQUEST. COSTS ASSOCIATED WITH CONSTRUCTION LAYOUT AND FIELD STAKING IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. PROTECTION AND RESTORATION OF PROPERTY: THE CONTRACTOR SHALL CONDUCT THE WORK REQUIRED AS NOT TO DISTURB EXISTING SURFACE FEATURES OF THE LAND OUTSIDE A REASONABLE WORK LIMIT. THE CONTRACTOR SHALL ALSO EXERCISE CARE TO PROTECT PUBLIC AND PRIVATE PROPERTY. AFTER COMPLETION OF THE PROJECT OR AS DIRECTED BY THE OWNER, THE CONTRACTOR SHALL RESTORE THE DISTURBED AREAS TO AN ACCEPTABLE CONDITION INCLUDING GRADING, SEEDING & MULCHING, EROSION CONTROL AND REPLACEMENT OF PAVEMENT, DRIVEWAYS, BERMS, SIDEWALKS, CURBING AND OTHER ITEMS AS DIRECTED BY THE OWNER. SEEDING & MULCHING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE "RAINWATER AND LAND DEVELOPMENT MANUAL" AS PUBLISHED BY ODNR. ALL OTHER ITEMS SHALL BE REPLACED IN ACCORDANCE WITH THE NOTES AND DETAILS OF THIS PLAN SET OR LOCAL STANDARDS, THE MORE STRINGENT SHALL APPLY. BEFORE LEAVING THE JOB, THE CONTRACTOR SHALL CLEAN UP AND REMOVE ALL REFUSE, RUBBISH, SCRAP MATERIALS, AND DEBRIS CAUSED BY CONSTRUCTION OPERATIONS. ALL OFF-SITE AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITION.
9. PROTECTION OF MONUMENTS, PROPERTY CORNER MARKERS, ETC.: SHALL NOT BE DISTURBED BY THE CONTRACTOR. IN THE EVENT IT IS NECESSARY TO REMOVE THESE ITEMS, THE CONTRACTOR SHALL AT HIS EXPENSE, EMPLOY A REGISTERED PROFESSIONAL SURVEYOR TO PROPERLY REFERENCE THE POINTS AND SHALL RESET SAME AFTER CONSTRUCTION HAS BEEN COMPLETED IN THE AREA.
10. CONSTRUCTION LIMITS: THE CONSTRUCTION LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.
11. STREET MAINTENANCE: CONTRACTOR SHALL MAINTAIN STREETS, RIGHT-OF-WAYS AND AREAS OUTSIDE THE "CONSTRUCTION LIMITS" CLEAR OF CONSTRUCTION MUD AND DEBRIS AT ALL TIMES.
12. MAINTAINING TRAFFIC: LOCAL TRAFFIC SHALL HAVE ACCESS TO THEIR RESPECTIVE RESIDENCES AT ALL TIMES, EXCEPT DURING RECONSTRUCTION OF DRIVEWAYS, PAVING OPERATIONS AND OTHER CONSTRUCTION OPERATIONS WHICH REQUIRES THE CLOSING OF DRIVEWAYS FOR SAFETY REASONS DURING THE ACTUAL HOURS OF CONSTRUCTION. THE CONTRACTOR SHALL GIVE SUFFICIENT PRIOR NOTICE TO PROPERTY OWNERS BEFORE CLOSING ANY PRIVATE DRIVEWAYS.

TEMPORARY SURFACES WHERE EXCAVATIONS ARE LOCATED IN STREETS, DRIVEWAYS AND PARKING AREAS SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR AND SHALL BE FULLY MAINTAINED WITH MATERIALS OF COMPARABLE QUALITY (ASPHALT, COLD PATCH, ETC.).

TWO-WAY TRAFFIC (ONE LANE IN EACH DIRECTION) SHALL BE MAINTAINED THROUGH THE PROJECT, UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR MAY REDUCE THE TRAVEL LANES TO ONE LANE TWO-WAY TRAFFIC AND SHALL MAINTAIN TRAFFIC THROUGH THE USE OF FLAGGERS. ALL NECESSARY LANE CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-95.31 AND MT-97.10. THE CONTRACTOR SHALL MAINTAIN A MINIMUM TRAVEL LANE WIDTH OF TEN (10) FEET AT ALL TIMES. FIGURE 6H-6 (TA-6) OF SECTION 6 OF THE MUTCD IS CITED AS AN APPROPRIATE EXAMPLE OF MAINLINE WORKZONES.

ALL WORK AND TRAFFIC CONTROL AND PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS." ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ODOT ITEM 614 - MAINTAINING TRAFFIC.

13. CLEARING AND GRUBBING, AS PER PLAN: THIS ITEM SHALL INCLUDE ALL CLEARING, GRUBBING, SCALPING AND THE REMOVAL AND SATISFACTORY DISPOSAL OF TREES, STUMPS, VEGETATION AND DEBRIS AS MAY BE NECESSARY FOR THE COMPLETION OF THE WORK. THIS ITEM SHALL ALSO INCLUDE THE REMOVAL OF MISCELLANEOUS ITEMS CALLED OUT TO BE REMOVED IN THE PLANS (LOG JAMS, WALLS, FOUNDATIONS, ROCKS, ETC.) THAT ARE NOT SEPARATELY ITEMIZED. REMOVE ALL DEBRIS WITHIN THE WORK LIMITS TO FACILITATE FUTURE MOWING OPERATIONS.

ALL TREES, VEGETATION AND OTHER DEBRIS/OBSTRUCTIONS WITHIN THE EASEMENT AREA AND ALONG ACCESS PATHS SHALL BE REMOVED, UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER. PRIOR TO CLEARING, ALL TREES SHALL BE FIELD VERIFIED WITH THE ENGINEER AND COUNTY TO DETERMINE TREE REMOVAL EXTENT. TREES LOCATED WITHIN 5FT OF THE EASEMENT LINE SHALL ALSO BE FIELD VERIFIED TO DETERMINE TREES TO REMAIN AND ALTERNATE DITCH ACCESS ROUTES.

TO REDUCE ANY POTENTIAL ADVERSE EFFECTS ON THE FEDERALLY-ENDANGERED INDIANA BAT (MYOTIS SODALIS), TREES (WOODY STEMS GREATER THAN 5 INCHES DIAMETER AT BREAST HEIGHT) MUST NOT BE CUT BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY YEAR.

TO REDUCE ANY POTENTIAL ADVERSE EFFECTS ON THE FEDERALLY-ENDANGERED NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), TREES (WOODY STEMS GREATER THAN 3 INCHES DIAMETER AT BREAST HEIGHT) MUST NOT BE CUT BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY YEAR.

IF TREES MUST BE CUT WITHIN THIS RANGE, THE CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION, ASSESSMENT, SURVEY OR COSTS RELATED TO ENDANGERED SPECIES PROTECTION, AS REQUIRED BY STATE OR FEDERAL LAW.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND SAVE ALL TREES WHICH ARE ADJACENT TO THE LINE OF WORK, OR AS IDENTIFIED ON THE PLANS TO REMAIN. TREES TO REMAIN WITHIN THE EASEMENT AREA ARE IDENTIFIED ON THE PLANS.

IF ANY TREE MARKED TO REMAIN OR OUTSIDE THE EASEMENT AREA IS DESTROYED, THE CONTRACTOR SHALL PAY THE PROPERTY OWNER FOR THE VALUE OF SAID TREE. THE VALUE WILL BE DETERMINED BASED ON THE OHIO TIMBER PRICE REPORT AS PRODUCED BY THE OHIO STATE UNIVERSITY, CURRENT AT THE TIME THE TREE IS DESTROYED. IF A TREE MARKED TO REMAIN MUST BE REMOVED IN ORDER TO COMPLETE THE WORK, THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE COUNTY. TREE PRUNING SHALL BE COMPLETED IN ACCORDANCE WITH ODOT ITEM 666 - PRUNING EXISTING TREES.

IF ANY TREE MARKED TO REMAIN, OR OUTSIDE OF THE EASEMENT AREA IS WOUNDED, THE CONTRACTOR SHALL DRESS THE WOUND IN ACCORDANCE WITH ODOT ITEM 666. WOUNDS THAT ARE 50% OR GREATER THAN THE TREE DIAMETER SHALL BE CLASSIFIED AS DESTROYING THE TREE AND WILL REQUIRE TREE REMOVAL AND PAYMENT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL OF ANY TREES MARKED TO REMAIN, FOR PRUNING OR FOR WOUND DRESSING.

TREE ROOTS AND BRANCHES OVERHANGING THE DITCH SHALL BE NEATLY TRIMMED AND COVERED WITH GRAFTING WAX. ALL DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER. WHERE MISCELLANEOUS SMALL TREES AND SHRUBS ARE NOTED TO BE REMOVED AND RESET, THE COST OF SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.

THE CONTRACTOR IS RESPONSIBLE TO VERIFY LOG JAMS. ALL FALLEN TREES/LOGS WITHIN THE DITCH SHALL BE REMOVED. TREES WITHIN NOTED TREE LINES WHICH NEED REMOVED FOR CONSTRUCTION SHALL BE REMOVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE TREES AND LOGS REQUIRED TO BE REMOVED AND NOT SPECIFICALLY MARKED ON THE PLANS.

WITHIN THE BANKS OF THE DITCH IN AREAS NOT EXCAVATED, CUT AND GRIND ALL STUMPS TO GRADE WITHOUT REMOVING THE ROOTS; DO NOT REMOVE TREES, BRUSH, OR VEGETATION BELOW THE SURFACE OF THE GROUND. TREE ROOTS AND BRANCHES OVERHANGING THE DITCH SHALL BE NEATLY TRIMMED AND COVERED WITH GRAFTING WAX. ALL DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER. WHERE MISCELLANEOUS SMALL TREES AND SHRUBS ARE NOTED TO BE REMOVED AND RESET, THE COST OF SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO VERIFY LOG JAMS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN.

14. WETLAND RESTRICTIONS: THE CONTRACTOR SHALL MINIMIZE ANY DISTURBANCE TO POTENTIAL WETLANDS TO THE MAXIMUM EXTENT PRACTICAL. MATERIAL REMOVED FROM THE CHANNEL SHALL BE PLACED SUFFICIENTLY UPLAND OUTSIDE OF THE FLOODPLAIN; MATERIAL SHALL NOT BE STOCKPILED IN THE STREAM CHANNEL, STREAM BANKS, ADJACENT WETLANDS, OR FLOODPLAIN. MATERIAL REMOVED FROM THE CHANNEL MAY BE PLACED DIRECTLY INTO AN ENCLOSED TRUCK BED AND HAULED TO AN APPROVED UPLAND DISPOSAL SITE. DO NOT DISCHARGE MATERIAL BACK INTO JURISDICTIONAL WATERS. PERFORM ALL WORK FROM ABOVE THE TOP OF BANK, AND FROM OUTSIDE OF THE FLOWING PORTION OF THE DITCH.

IN WETLAND AREAS, CUT AND GRIND ALL STUMPS TO GRADE WITHOUT REMOVING THE ROOTS. DO NOT REMOVE TREES, BRUSH, OR VEGETATION BELOW THE SURFACE OF THE GROUND. ALL WOODY DEBRIS RESULTING FROM TREE REMOVAL MUST BE REMOVED FROM WETLANDS WITHOUT THE USE OF HEAVY EQUIPMENT.

ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN. NO ADDITIONAL PAYMENT SHALL BE MADE FOR COSTS ASSOCIATED WITH WETLAND RESTRICTIONS.

15. TEMPORARY TIMBER MATTING: ALL WORK IN WETLAND AREAS, OR OTHER AREAS CALLED FOR ON THE PLANS, SHALL BE CONDUCTED ON TIMBER MATS. ANY TIMBER MATTING SHOWN ON THE PLANS IS FOR REFERENCE ONLY. REMOVE TIMBER MATS PROMPTLY AFTER COMPLETION OF THE WORK.

ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPC - TEMPORARY TIMBER MATTING.

16. IN-WATER WORK RESTRICTIONS: NO IN-WATER WORK SHALL OCCUR IN PERENNIAL STREAMS FROM MARCH 15 TO JUNE 30 TO REDUCE IMPACTS TO INDIGENOUS AQUATIC SPECIES AND THEIR HABITATS. ACTIVITIES SHOULD TAKE PLACE DURING LOW-FLOW OR NO-FLOW CONDITIONS. PRECAUTIONS SHOULD BE TAKEN TO PREVENT PETROLEUM PRODUCTS SUCH AS LUBRICATING, ENGINE, OR TRANSMISSION OILS AND GREASES, ETC. FROM ENTERING SURFACE WATERS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN. NO ADDITIONAL PAYMENT SHALL BE MADE FOR COSTS ASSOCIATED WITH IN-WATER WORK RESTRICTIONS.

17. EXCAVATION AND EMBANKMENT, AS PER PLAN: CUT (EXCAVATION) AND FILL (EMBANKMENT) SHALL BE PERFORMED IN ACCORDANCE WITH ODOT ITEM 203 AND 204. ENGINEER DOES NOT GUARANTEE A BALANCED SITE AND ANY QUANTITIES PROVIDED ARE FOR REFERENCE ONLY. EXCAVATION QUANTITIES ARE BASED ON MATERIAL IN THE ORIGINAL POSITION. EMBANKMENT QUANTITIES ARE BASED ON MATERIAL IN THE FINAL POSITION. QUANTITIES DO NOT INCLUDE SPOILS FROM BASEMENTS, FOOTINGS, PITS, FOUNDATIONS, STRUCTURES, CULVERTS OR UTILITY TRENCHES UNLESS SPECIFIED OTHERWISE. SEDIMENT SHALL BE REMOVED FROM ALL STRUCTURES AND CULVERTS LOCATED WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE TO PERFORM INDEPENDENT CUT AND FILL CALCULATIONS AND PROVIDE FOR EXPORT OR IMPORT OF ACCEPTABLE SOILS PER ODOT ITEM 203 AS REQUIRED TO BALANCE THE SITE. ALL EXCESS EXCAVATION MATERIAL AND RUBBISH SHALL BE DISPOSED OF BY THE CONTRACTOR PER ODOT 203.04, 105.16 AND 105.17.

NO CONSTRUCTION EQUIPMENT OR VEHICLES SHALL BE ALLOWED IN THE BOTTOM OF THE DITCH. PERFORM ALL DITCH EXCAVATION FROM THE SIDES OF THE DITCH. DO NOT PLACE FILL IN THE DITCH. ALL SPOILS SHALL BE HAULED OFF-SITE AND PROPERLY DISPOSED OF UNLESS OTHERWISE DIRECTED IN THE PLANS. UNDER NO CIRCUMSTANCES SHALL FILL BE PLACED IN ANY FLOODPLAIN.

THE FOLLOWING QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL PERFORM THEIR OWN CUT AND FILL CALCULATIONS TO DETERMINE THE REQUIREMENTS FOR EXCAVATION AND EMBANKMENT.

ITEM 203	EXCAVATION, AS PER PLAN:	7525 CY
ITEM 203	EMBANKMENT, AS PER PLAN:	80 CY
ITEM 203	TOPSOIL STOCKPILE AND REPLACEMENT:	90 CY
ITEM 203	SPOILS REMOVAL - HAULING AND DISPOSAL:	7355 CY

18. SEEDING AND MULCHING, CLASS 2, AS PER PLAN: SEEDING AND MULCHING, CLASS 2, SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE EASEMENT LINES, RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE EASEMENT AND RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT. THIS ITEM SHALL ALSO INCLUDE ALL REPAIR SEEDING AND MULCHING, INTER-SEEDING, LIME, COMMERCIAL FERTILIZER AND WATER PER ODOT 659 REQUIRED TO REPAIR ALL DAMAGE OR EROSION OF THE SEEDED AND MULCHED AREAS BEFORE THE COMPLETION OF THE PROJECT. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 659 - SEEDING AND MULCHING, CLASS 2, AS PER PLAN.

19. ROADWAY LIMITS: THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT STATE OF OHIO LOAD ROAD LIMITS (AND ALL POSTED REDUCED LOAD LIMITS) FOR ALL VEHICLES USED ON THIS PROJECT.

20. ROCK CHANNEL PROTECTION, TYPE B, WITH FILTER, AS DIRECTED: THE CONTRACTOR SHALL INSTALL ROCK CHANNEL PROTECTION IN AREAS DIRECTED BY THE ENGINEER IN THE FIELD, WHICH ARE NOT NECESSARILY SHOWN ON THE PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO, REPAIRING ERODING AREAS, SCOURING ALONG HEADWALLS/WINGWALLS/RETAINING WALLS, AND AT CULVERT ENTRANCES/EXITS. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CALCULATED FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 601	ROCK CHANNEL PROTECTION, TYPE B, WITH FILTER, AS DIRECTED	35 CY
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21. ROCK CHANNEL PROTECTION, TYPE D, WITH FILTER, AS DIRECTED: THE CONTRACTOR SHALL INSTALL ROCK CHANNEL PROTECTION IN AREAS DIRECTED BY THE ENGINEER IN THE FIELD, WHICH ARE NOT NECESSARILY SHOWN ON THE PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO, SMALL SWALES, DITCH CONFLUENCES, AND PIPE OUTLETS. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CALCULATED FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 601	ROCK CHANNEL PROTECTION, TYPE D, WITH FILTER, AS DIRECTED	50 CY
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22. PERMANENT ACCESS DRIVE, AS PER PLAN: CONSTRUCT PERMANENT ACCESS DRIVE APRONS PER PLAN. AFTER PROJECT COMPLETION, LEVEL PERMANENT APRON WITH ODOT 304, CCS. CONSTRUCTION ENTRANCE STONE ON GEOTEXTILE MAY REMAIN IN PLACE UNDER PERMANENT ACCESS.

AFTER CONSTRUCTION IS COMPLETE, RE-GRADE TEMPORARY ACCESS, AS NECESSARY. TO RESTORE PLAN ELEVATIONS AND REMOVE 4" OF STONE. COVER WITH 4" OF TOPSOIL AND FINE-GRADE TO MATCH PLAN ELEVATIONS. SEED AND MULCH DRIVE AND DISTURBED ADJACENT LAWN AREAS WITH ODOT 659 SEEDING AND MULCHING, CLASS 1.

ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPC - PERMANENT ACCESS DRIVE, AS PER PLAN.



FOSTER DITCH RESTORATION

LAGRANGE TOWNSHIP LORAIN COUNTY, OHIO

DESIGNED	DRAWN	CHECKED
AEA	IAP	MWR
REVISION		DATE
DRAFT 06		06/02/2025
SHEET NAME		

GENERAL NOTES

SHEET NUMBER	
2	52

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1. STRUCTURAL BACKFILL: ALL EXCAVATIONS WITHIN 1:1 INFLUENCE OR WITHIN 3 FEET OF ALL STREETS, DRIVES, BERMS, WALKS, PARKING AREAS AND OTHER ROADWAYS SHALL BE BACKFILLED AND COMPACTED WITH GRANULAR MATERIAL PER ODOT 703.11, TYPE 1 (ODOT 304) AND IN ACCORDANCE WITH ODOT 611.06. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ASSOCIATED 611 CONDUIT ITEM.

2. SHEETING & SHORING: ALL SHEETING AND SHORING REQUIRED TO SUPPORT ALL TRENCHES AND EXCAVATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE OHIO INDUSTRIAL COMMISSION PUBLICATION 4121:1-2 AND SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF SHEETING AND SHORING NECESSARY FOR PROTECTION OF STRUCTURES AND/OR UTILITIES ADJACENT TO TRENCHES AND EXCAVATIONS. THE CONTRACTOR SHALL DETERMINE WHERE SHEETING AND SHORING WILL BE REQUIRED AND PREPARE DESIGN AND DETAILS NECESSARY TO PROTECT ALL STRUCTURES, PAVEMENT, UTILITIES, ETC. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ASSOCIATED 611 CONDUIT ITEM.

3. ROCK EXCAVATION: THE CONTRACTOR SHALL PERFORM HIS OWN SUB-SURFACE INVESTIGATIONS TO DETERMINE SOIL PROFILES. ALL ROCK ENCOUNTERED SHALL BE REMOVED TO LINES AND GRADES AS SPECIFIED. UNDER THIS CONTRACT ALL ROCK EXCAVATION SHALL BE BY THE MECHANICAL METHOD ONLY. EXCAVATION BY BLASTING, USING EXPLOSIVES, IS NOT ACCEPTABLE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ASSOCIATED 611 CONDUIT ITEM.

4. RESIDENTIAL DRAINAGE CONNECTIONS: ALL PIPE OUTLETS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. THE CONTRACTOR SHALL CUT OR EXTEND PIPE TO ADJUST TO PROPOSED BANK GRADE USING DETAIL ON SHEET 6. EXISTING COLLECTORS, ISOLATED FARM DRAINS, ROOF DRAINS, FOOTER DRAINS OR YARD DRAINS WHICH ARE ABOVE THE ELEVATION OF THE FLOW LINE SHALL OUTLET INTO THE DITCH. EXISTING DRAINS THAT TIE INTO AN EXISTING STORM SEWER SHALL BE TIED BACK INTO THE PROPOSED STORM SEWER SYSTEM AT THE SAME LOCATION AS THE EXISTING CONNECTION. ALL DRAINAGE CONNECTIONS SHALL BE ODOT 611 TYPE E CONDUIT.

THE LOCATION, TYPE, SIZE AND ELEVATION OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE BASED ON FINAL MEASUREMENTS. ALL TIE-INS TO THE STORM SEWER SHALL BE DOCUMENTED AND LOCATIONS PROVIDED TO THE COUNTY. ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

ROCK CHANNEL PROTECTION SHALL BE PROVIDED FOR EROSION CONTROL, AS DIRECTED BY THE ENGINEER, FOR ALL PIPE OUTLETS AS PER DETAIL ON SHEET 6, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. ALL COSTS ASSOCIATED WITH PLACING RCP SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 601- ROCK CHANNEL PROTECTION, TYPE D, WITH FILTER, AS DIRECTED.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CALCULATED FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 611	4" - 8" CONDUIT, TYPE E, AS DIRECTED	50 FT
ITEM 611	10" - 12" CONDUIT, TYPE E, AS DIRECTED	50 FT

5. DEWATERING: THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROVIDE PROPER AND SATISFACTORY MEANS AND DEVICES FOR THE REMOVAL OF ALL WATER ENTERING THE EXCAVATIONS. ALL SUCH WATER SHALL BE REMOVED AS FAST AS IT MAY COLLECT IN SUCH MANNER AS TO NOT INTERFERE WITH THE OPERATION OF THE WORK, THE PROPER PLACING OF MASONRY OR OTHER WORK. DEWATERING SHALL TAKE PLACE IN SUCH A MANNER AS TO COMPLY WITH THE OEPA NPDES PERMIT NO. OHCO00006. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE ASSOCIATED 611 CONDUIT ITEM.

6. CLEAN WATER CONNECTIONS: ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED. DEWATERING OF TRENCHES INTO THE SANITARY SEWER IS PROHIBITED.

7. EROSION AND SEDIMENT CONTROL: INSTALL, MAINTAIN, AND REMOVE EROSION AND SEDIMENT CONTROL MEASURES PER LORAIN COUNTY REGULATIONS, AND AS DIRECTED. PROPER CONTROL OF SOIL EROSION AND SEDIMENTATION SHALL BE PROVIDED. SEDIMENT SHALL NOT LEAVE THE PROJECT LIMITS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT BARRIERS AND EROSION CONTROLS AT ALL TIMES. THE CONTRACTOR SHALL COMPLY WITH THE EROSION CONTROL REQUIREMENTS OF LORAIN COUNTY AND THE OEPA NPDES PERMIT NO. OHCO00006. WHERE A CONFLICT MAY EXIST, THE MORE STRINGENT REQUIREMENT SHALL BE UTILIZED. PAYMENT WILL BE MADE PER ODOT SS 832. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 832	EROSION CONTROL, AS PER PLAN	34,000 EA
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8. UNDERGROUND UTILITIES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT BUT THE ENGINEER AND OWNER DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND LOCATE ALL UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT AS TO LINE AND GRADE BEFORE STARTING ANY OPERATION THAT INTERFERES WITH THE UTILITY.

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN IN THE PLANS. THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

THE FOLLOWING IS A PARTIAL LIST OF UTILITY OWNERS WHO MUST BE NOTIFIED. THE CONTRACTOR SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE RESPECTIVE PUBLIC SERVICE CORPORATIONS AS LISTED:

CENTURYLINK
203 WEST 9TH ST.
LORAIN, OH 44052
(440)-244-8330

COLUMBIA GAS OF OHIO, INC.
7080 FRY RD.
MIDDLEBURG HEIGHTS, OH 44130
(440)-891-2428

FIRST ENERGY (OHIO EDISON TRANS.) HEADQUARTERS
76 SOUTH MAIN ST.
AKRON, OH 44308
(330)-761-4268

LAGRANGE TOWNSHIP
P.O. BOX 565
LAGRANGE, OH 44050
(440)-355-6071

LORAIN COUNTY ENGINEERS
247 HADAWAY ST.
ELYRIA, OH 44035
(440)-329-5584

LORAIN-MEDINA RURAL ELECTRIC
22898 WEST RD.
P.O. BOX 158
WELLINGTON, OH 44090
800-222-5673

VERIZON BUSINESS (MC)
120 RAVINE STREET
AKRON, OH 11303
330-622-5967

WINDSTREAM, OHIO
560 TERNES AVE.
ELYRIA, OH 44035
440-329-4245

9. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL PUBLIC OR PRIVATE UTILITY FACILITIES DURING CONSTRUCTION. SHOULD IT BECOME NECESSARY TO MOVE, ADJUST, OR TEMPORARILY RELOCATE ANY SUCH FACILITY, THE WORK SHALL BE DONE BY THE OWNER OF SAID FACILITY. ANY DAMAGE TO UTILITY FACILITIES BY THE CONTRACTOR OR SUB-CONTRACTORS SHALL BE REPAIRED BY THE OWNER OF SAID UTILITY AND THE COST OF SAID REPAIRS WILL BE DEDUCTED FROM PAYMENT TO BE MADE TO THE CONTRACTOR UNDER THE CONTRACT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL OF THE PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT OR RELOCATED POSITIONS AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE OR DAMAGE SUSTAINED BY CONTRACTOR DUE TO ANY INTERFERENCE FROM THE SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM. THE CONTRACTOR SHALL PROPERLY PROTECT AND SUPPORT ALL UTILITIES DURING CONSTRUCTION.

10. EXISTING UTILITY CROSSINGS AND CONNECTIONS: WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. WHERE PLANS PROVIDE FOR AN EXISTING CONDUIT TO BE EXTENDED, THE SPECIFIED PIPE TYPE SHALL BE USED FOR THE EXTENSION. CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT END AND REMOVE TO A JOINT OR CLEAN FIELD CUT. A MASONRY COLLAR OR FERNCO CONNECTION SHALL BE PROVIDED TO ASSURE A STABLE JOINT BETWEEN THE EXISTING AND PROPOSED CONDUIT. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE OF AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 611 CONDUIT ITEM.

11. UTILITY SERVICES: PRIVATE UTILITY CONNECTIONS INCLUDING ELECTRIC, PHONE, CABLE, & GAS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE DESIGN, LOCATION AND INSTALLATION OF ALL PRIVATE SERVICE CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANIES.

12. STORM SEWER: PIPE FOR STORM SEWER USING OPEN CUT EXCAVATION METHODS SHALL BE ODOT 707.33 CORRUGATED POLYETHYLENE SMOOTH LINED PIPE. CONDUIT INSTALLATION SHALL BE TYPE A UNLESS SPECIFIED OTHERWISE. PIPE AND FITTINGS SHALL CONFORM TO AASHTO M294, TYPE S AND ASTM F2648.

ALL STORM SEWERS AND DRAINAGE STRUCTURES SHALL BE INSTALLED PER ODOT 611, THE TYPICAL TRENCH DETAIL, AND MANUFACTURERS RECOMMENDATION. THE MOST STRINGENT SHALL APPLY. THE FOLLOWING ODOT 611 SPECIFICATION SECTIONS DO NOT APPLY TO THIS PROJECT: 611.04.D, 611.12, 611.13, 611.14, & 611.15.

ALL ACCESS DRIVE PIPE LOCATIONS AND INVERT ELEVATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER.

THE INVERT ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS ARE FLOW LINES PROJECTED TO THE CENTER OF THE STRUCTURE.

ALL STORM STRUCTURES SHALL BE BUILT ACCORDING TO ODOT STANDARD CONSTRUCTION DRAWINGS UNLESS DETAILED OTHERWISE ON THE PLANS. ADDITIONALLY, NON-SHRINK MORTAR AS PER ODOT 705.22 SHALL BE USED TO GROUT ALL OPENINGS BETWEEN THE PIPE AND STRUCTURE. THE AREA AROUND ALL STORM STRUCTURES AND GRATE ADJUSTMENTS SHALL BE GRADED AT A 12:1 MAXIMUM SLOPE TO MEET EXISTING GRADE UNLESS SHOWN OTHERWISE ON THE PLANS.

ALL EXISTING STORM SEWER OR STRUCTURES TO BE REMOVED FOR INSTALLATION OF NEW STORM SEWER OR STRUCTURES IS INCIDENTAL TO THE INSTALLATION OF THE NEW SEWER OR STRUCTURES.

ALL DIRECT CONNECTIONS TO THE STORM SEWER SHALL BE WATERTIGHT, AS SHOWN IN THE PLANS.

ALL HALF-HEIGHT HEADWALLS SHALL INCLUDE ANCHOR CABLES AS CALLED FOR IN THE ODOT SCD.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ASSOCIATED 611 ITEM.

13. STORMWATER POLLUTION PREVENTIION PLAN: THE CONTRACTOR SHALL FURNISH A STORMWATER POLLUTION PREVENTION PLAN TO REPRESENT AND WARRANT COMPLIANCE WITH ODOT SUPPLEMENTAL SPECIFICATIONS IN 832. THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 832.11 A-C FOR THE INSPECTION REPORTS TO BE COMPLETED UNDER THE DIRECTION OF THE ENGINEER WHO PREPARED THE PLANS ARE WAIVED.

14. ABBREVIATIONS:

AC
ADA
APPX
BM
BMP
BW
CB
CCS
CF
CI
CLR
CMP
CMS
CN
CONC
CONST
CORP
CPP
CR
CRL
CY
c/c
DB
DIA
DIP
DR
EJ
EL
EOP
ETC
EX
FD
FDC
FFB
FG
FM
FRP
FT
FW
HD
HDD
HP
HW
HYD
ID
IMP
IN
INV
IPS
L
L&D
LD
LPG
LSM
LT

ACRES
AMERICANS WITH DISABILITIES ACT
APPENDIX
BENCH MARK
BEST MANAGEMENT PRACTICE
GROUND ELEVATION AT BACK OF WALL
CATCH BASIN
CRUSHED CARBONATE STONE
CUBIC FEET
CURB INLET
CLEARANCE
CORRUGATED METAL PIPE
CONSTRUCTION & MATERIAL SPECIFICATIONS
CURVE NUMBER
CONCRETE
CONSTRUCTION CORPORATION
CORPORATION
CORRUGATED PLASTIC PIPE
COUNTY ROUTE
CONTROL
CUBIC YARDS
CENTER TO CENTER
DRAIN BASIN
DIAMETER
DUCTILE IRON PIPE
DRIVE
EJ USA, INC. (EAST JORDAN)
ELEVATION
EDGE OF PAYMENT
ET CETERA
EXISTING
FINGER DRAIN
FIRE DEPARTMENT CONNECTION
FRONT FLANGE BOLT
FINISH GRADE
FACTORY MUTUAL GLOBAL
FIBER REINFORCED PLASTIC
FOOT(FEET)
GROUND ELEVATION AT FACE OF WALL
HEAVY DUTY
HORIZONTAL DIRECTIONAL DRILL
HIGH PERFORMANCE
HEADWALL
HYDRANT
INLINE DRAIN
IMPERVIOUS
INCH(ES)
INVERT
IRON PIPE SIZE
LENGTH
LOCATION & DESIGN
LIGHT DUTY
LIQUEFIED PETROLEUM GAS
LOW STRENGTH MORTAR [BACKFILL]
LEFT

MEX
MH
MIN
NAVD
No
NP
NPDES

NTS
NWL
NWS
OC
OD
ODNR

ODOT
OEPA
ORC
P&P
PE
PED
PERM
PIV
PR
PKWY
RCP
RD
ROP
RT
SCD
SDR
SR
SSMH
ST
STA
STD
STMH
SWP3
T
TB
TC
TD
TEMP
TG
TOC
TRM
TYP
UL
USGS
VOL
W
w/
WSE
XPS
YR

MATCH EXISTING
MANHOLE
MINIMUM
NORTH AMERICAN VERTICAL DATUM
NUMBER
NYLOPLAST
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NOT TO SCALE
NORMAL WATER LEVEL
NORMAL WATER SURFACE
ON-CENTER
OUTSIDE DIAMETER
OHIO DEPARTMENT OF NATURAL RESOURCES
OHIO DEPARTMENT OF TRANSPORTATION
OHIO ENVIRONMENTAL PROTECTION AGENCY
OHIO REVISED CODE
PLAN AND PROFILE
POLYETHYLENE
PEDESTRIAN
PERMANENT
POST INDICATOR VALVE
PROPOSED
PARKWAY
REINFORCED CONCRETE PIPE
ROAD
ROCK OUTLET PROTECTION
RIGHT
STANDARD CONSTRUCTION DRAWING
STANDARD DIMENSION RATIO
STATE ROUTE
SANITARY SEWER MANHOLE
STREET
STATION
STANDARD
STORM MANHOLE
STORMWATER POLLUTION PREVENTION PLAN
THICKNESS
TOP OF BANK
TIME OF CONCENTRATION
TRENCH DRAIN
TEMPORARY
TOP OF GRATE
TOP OF CASTING
TURF REINFORCEMENT MATTING
TYPICAL
UNDERWRITERS LABORATORIES
UNITED STATES GEOLOGICAL SURVEY
VOLUME
WIDTH
WITH
WATER SURFACE ELEVATION
EXTRUDED POLYSTYRENE
YEAR

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LORAIN COUNTY

OHIO

SENIOR COMMISSIONER

LAGRANGE TOWNSHIP

LORAIN COUNTY, OHIO

FOSTER DITCH

RESTORATION

LAGRANGE TOWNSHIP

LORAIN COUNTY, OHIO

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CENTERLINE DATA								
<u>CURVE C1</u> R 100.00' Δ 8°12'55" PC STA. 100+00.00 PT STA. 100+14.34	<u>CURVE C2</u> R 110.00' Δ 15°11'42" PC STA. 100+27.87 PT STA. 100+57.04	<u>CURVE C3</u> R 125.00' Δ 19°39'07" PC STA. 100+91.30 PT STA. 101+34.17	<u>CURVE C4</u> R 110.00' Δ 15°40'32" PC STA. 101+34.86 PT STA. 101+64.96	<u>CURVE C5</u> R 75.00' Δ 10°40'57" PC STA. 101+72.15 PT STA. 101+86.14	<u>CURVE C6</u> R 65.00' Δ 17°49'06" PC STA. 101+86.81 PT STA. 102+07.02	<u>CURVE C7</u> R 200.00' Δ 8°35'56" PC STA. 102+10.46 PT STA. 102+40.47	<u>CURVE C8</u> R 125.00' Δ 9°32'04" PC STA. 102+41.37 PT STA. 102+62.17	<u>CURVE C9</u> R 85.00' Δ 18°17'20" PC STA. 102+62.84 PT STA. 102+89.97
<u>CURVE C10</u> R 100.00' Δ 9°06'16" PC STA. 102+93.06 PT STA. 103+08.95	<u>CURVE C11</u> R 75.00' Δ 29°42'32" PC STA. 103+39.69 PT STA. 103+78.58	<u>CURVE C12</u> R 320.00' Δ 8°11'50" PC STA. 103+79.55 PT STA. 104+25.33	<u>CURVE C13</u> R 170.00' Δ 13°21'08" PC STA. 104+27.40 PT STA. 104+67.02	<u>DEFLECTION D1</u> Δ 5°20'07" STA. 104+72.27	<u>DEFLECTION D2</u> Δ 10°40'56" STA. 105+08.74	<u>CURVE C14</u> R 20.00' Δ 34°32'17" PC STA. 105+28.73 PT STA. 105+40.78	<u>CURVE C15</u> R 335.00' Δ 7°41'58" PC STA. 105+41.05 PT STA. 105+86.07	<u>CURVE C16</u> R 100.00' Δ 10°33'26" PC STA. 106+26.55 PT STA. 106+44.98
<u>CURVE C17</u> R 100.00' Δ 10°33'26" PC STA. 106+45.02 PT STA. 106+84.89	<u>CURVE C18</u> R 250.00' Δ 7°00'53" PC STA. 107+11.47 PT STA. 107+42.08	<u>CURVE C19</u> R 230.00' Δ 6°47'17" PC STA. 107+43.14 PT STA. 107+70.39	<u>CURVE C20</u> R 175.00' Δ 7°47'58" PC STA. 107+70.49 PT STA. 107+94.31	<u>CURVE C21</u> R 1020.00' Δ 3°13'03" PC STA. 108+11.04 PT STA. 108+68.32	<u>CURVE C22</u> R 250.00' Δ 4°51'41" PC STA. 108+94.58 PT STA. 109+15.79	<u>CURVE C23</u> R 175.00' Δ 4°40'39" PC STA. 109+15.97 PT STA. 109+30.26	<u>CURVE C24</u> R 175.00' Δ 1°36'47" PC STA. 109+30.26 PT STA. 109+35.19	<u>CURVE C25</u> R 175.00' Δ 1°36'47" PC STA. 109+71.75 PT STA. 110+10.26
<u>CURVE C26</u> R 500.00' Δ 1°08'23" PC STA. 110+10.26 PT STA. 110+20.21	<u>CURVE C27</u> R 300.00' Δ 5°39'41" PC STA. 110+35.28 PT STA. 110+64.92	<u>CURVE C28</u> R 145.00' Δ 6°58'29" PC STA. 110+65.19 PT STA. 110+82.84	<u>CURVE C29</u> R 85.00' Δ 17°29'13" PC STA. 110+84.67 PT STA. 111+10.61	<u>CURVE C30</u> R 300.00' Δ 6°18'34" PC STA. 111+10.78 PT STA. 111+43.82	<u>CURVE C31</u> R 70.00' Δ 13°19'56" PC STA. 111+44.19 PT STA. 111+60.48	<u>CURVE C32</u> R 60.00' Δ 20°07'32" PC STA. 111+94.27 PT STA. 112+15.35	<u>CURVE C33</u> R 375.00' Δ 4°41'47" PC STA. 112+16.06 PT STA. 112+46.80	<u>CURVE C34</u> R 1000.00' Δ 2°19'46" PC STA. 112+61.55 PT STA. 113+02.20
<u>DEFLECTION D3</u> Δ 12°48'17" STA. 113+03.14	<u>DEFLECTION D4</u> Δ 13°24'15" STA. 114+08.95	<u>CURVE C35</u> R 80.00' Δ 10°44'53" PC STA. 114+09.24 PT STA. 114+24.25	<u>CURVE C36</u> R 500.00' Δ 5°08'20" PC STA. 114+48.64 PT STA. 114+93.49	<u>CURVE C37</u> R 100.00' Δ 16°13'18" PC STA. 115+00.00 PT STA. 115+28.31	<u>CURVE C38</u> R 600.00' Δ 6°31'05" PC STA. 115+33.47 PT STA. 116+01.73	<u>CURVE C39</u> R 150.00' Δ 10°41'34" PC STA. 116+02.94 PT STA. 116+30.93	<u>CURVE C40</u> R 200.00' Δ 5°34'27" PC STA. 116+68.10 PT STA. 116+87.56	<u>CURVE C41</u> R 110.00' Δ 14°21'41" PC STA. 116+87.82 PT STA. 117+15.39
<u>CURVE C42</u> R 1000.00' Δ 2°47'58" PC STA. 117+58.03 PT STA. 118+06.89	<u>CURVE C43</u> R 140.00' Δ 6°43'58" PC STA. 118+07.27 PT STA. 118+23.73	<u>CURVE C44</u> R 275.00' Δ 7°07'55" PC STA. 118+24.61 PT STA. 118+58.84	<u>CURVE C45</u> R 200.00' Δ 7°43'08" PC STA. 118+75.37 PT STA. 119+02.31	<u>CURVE C46</u> R 10.00' Δ 45°24'18" PC STA. 119+04.08 PT STA. 119+12.01	<u>CURVE C47</u> R 40.00' Δ 25°33'52" PC STA. 119+16.59 PT STA. 119+34.44	<u>CURVE C48</u> R 10.00' Δ 52°05'25" PC STA. 119+36.10 PT STA. 119+45.19	<u>CURVE C49</u> R 80.00' Δ 17°37'47" PC STA. 119+62.81 PT STA. 119+87.42	<u>CURVE C50</u> R 100.00' Δ 28°21'20" PC STA. 120+38.68 PT STA. 120+88.17
<u>CURVE C51</u> R 50.00' Δ 60°53'42" PC STA. 121+02.06 PT STA. 121+55.20	<u>CURVE C52</u> R 100.00' Δ 28°27'51" PC STA. 122+76.55 PT STA. 123+26.23	<u>CURVE C53</u> R 250.00' Δ 38°47'13" PC STA. 124+14.05 PT STA. 125+83.29	<u>CURVE C54</u> R 50.00' Δ 45°14'55" PC STA. 126+06.74 PT STA. 126+46.22	<u>CURVE C55</u> R 300.00' Δ 5°28'07" PC STA. 127+71.17 PT STA. 127+99.80	<u>CURVE C56</u> R 200.00' Δ 22°05'07" PC STA. 135+53.89 PT STA. 136+30.98	<u>DEFLECTION D5</u> Δ 1°40'07" STA. 137+40.99	<u>DEFLECTION D6</u> Δ 0°05'55" STA. 137+61.29	<u>CURVE C57</u> R 100.00' Δ 31°11'48" PC STA. 137+89.31 PT STA. 138+43.76
<u>CURVE C58</u> R 500.00' Δ 15°17'32" PC STA. 138+61.82 PT STA. 139+95.27	<u>CURVE C59</u> R 50.00' Δ 19°24'42" PC STA. 142+72.26 PT STA. 142+89.20	<u>CURVE C60</u> R 20.00' Δ 34°48'36" PC STA. 142+90.98 PT STA. 143+03.13	<u>CURVE C61</u> R 15.00' Δ 36°51'40" PC STA. 143+13.68 PT STA. 143+23.33	<u>CURVE C62</u> R 125.00' Δ 7°43'16" PC STA. 143+35.79 PT STA. 143+52.64	<u>CURVE C63</u> R 100.00' Δ 12°02'27" PC STA. 143+54.49 PT STA. 143+75.51	<u>CURVE C64</u> R 25.00' Δ 31°37'23" PC STA. 143+84.30 PT STA. 143+98.10	<u>CURVE C65</u> R 175.00' Δ 12°08'21" PC STA. 144+13.23 PT STA. 144+50.31	<u>CURVE C66</u> R 80.00' Δ 17°22'14" PC STA. 144+51.61 PT STA. 144+75.86
<u>CURVE C67</u> R 50.00' Δ 22°05'33" PC STA. 144+79.40 PT STA. 144+98.67	<u>CURVE C68</u> R 275.00' Δ 7°57'50" PC STA. 144+98.93 PT STA. 145+37.16	<u>CURVE C69</u> R 250.00' Δ 4°44'56" PC STA. 145+57.91 PT STA. 145+78.63	<u>CURVE C70</u> R 250.00' Δ 3°30'06" PC STA. 145+80.52 PT STA. 145+95.80	<u>CURVE C71</u> R 500.00' Δ 3°34'39" PC STA. 146+32.85 PT STA. 146+64.07	<u>CURVE C72</u> R 135.00' Δ 13°45'48" PC STA. 146+75.72 PT STA. 147+08.15	<u>CURVE C73</u> R 70.00' Δ 15°34'41" PC STA. 147+08.50 PT STA. 147+27.53	<u>CURVE C74</u> R 100.00' Δ 23°35'32" PC STA. 147+54.85 PT STA. 147+96.03	<u>CURVE C75</u> R 400.00' Δ 4°55'06" PC STA. 148+77.16 PT STA. 149+11.50
<u>CURVE C76</u> R 150.00' Δ 14°31'21" PC STA. 149+23.62 PT STA. 149+61.64	<u>CURVE C77</u> R 400.00' Δ 7°42'31" PC STA. 149+75.08 PT STA. 150+28.90	<u>CURVE C78</u> R 400.00' Δ 3°26'12" PC STA. 150+29.18 PT STA. 150+53.17	<u>CURVE C79</u> R 500.00' Δ 5°55'37" PC STA. 150+83.48 PT STA. 151+35.20	<u>CURVE C80</u> R 200.00' Δ 9°52'56" PC STA. 151+37.47 PT STA. 151+69.06	<u>CURVE C81</u> R 60.00' Δ 16°56'25" PC STA. 151+70.47 PT STA. 151+88.21	<u>CURVE C82</u> R 250.00' Δ 7°01'41" PC STA. 151+89.84 PT STA. 152+20.50	<u>CURVE C83</u> R 50.00' Δ 19°45'38" PC STA. 152+23.60 PT STA. 152+40.85	<u>CURVE C84</u> R 75.00' Δ 15°20'20" PC STA. 152+46.16 PT STA. 152+66.24
<u>CURVE C85</u> R 45.00' Δ 23°52'38" PC STA. 152+69.23 PT STA. 152+87.98	<u>CURVE C86</u> R 35.00' Δ 27°11'44" PC STA. 152+95.66 PT STA. 153+12.27	<u>CURVE C87</u> R 1100.00' Δ 4°49'16" PC STA. 153+21.18 PT STA. 154+13.74	<u>CURVE C88</u> R 600.00' Δ 3°47'57" PC STA. 154+15.01 PT STA. 154+54.79	<u>CURVE C89</u> R 500.00' Δ 2°28'37" PC STA. 155+05.85 PT STA. 155+27.46	<u>CURVE C90</u> R 275.00' Δ 5°14'13" PC STA. 155+28.58 PT STA. 155+53.71	<u>CURVE C91</u> R 85.00' Δ 16°58'12" PC STA. 156+08.46 PT STA. 156+33.63	<u>CURVE C92</u> R 200.00' Δ 7°53'45" PC STA. 156+75.58 PT STA. 157+03.14	<u>CURVE C93</u> R 130.00' Δ 8°41'38" PC STA. 157+03.66 PT STA. 157+23.39
<u>CURVE C94</u> R 100.00' Δ 9°32'07" PC STA. 160+10.62 PT STA. 160+27.27	<u>CURVE C95</u> R 200.00' Δ 8°04'35" PC STA. 160+27.96 PT STA. 160+56.16	<u>CURVE C96</u> R 1000.00' Δ 2°23'27" PC STA. 160+70.88 PT STA. 161+12.61	<u>CURVE C97</u> R 600.00' Δ 3°33'11" PC STA. 161+13.87 PT STA. 161+51.08	<u>CURVE C98</u> R 250.00' Δ 5°32'49" PC STA. 162+39.22 PT STA. 162+63.43	<u>CURVE C99</u> R 250.00' Δ 6°39'23" PC STA. 162+64.91 PT STA. 162+93.95	<u>CURVE C100</u> R 500.00' Δ 4°55'49" PC STA. 163+70.47 PT STA. 164+13.49	<u>CURVE C101</u> R 250.00' Δ 6°08'54" PC STA. 164+17.89 PT STA. 164+44.72	<u>CURVE C102</u> R 250.00' Δ 5°03'00" PC STA. 164+57.36 PT STA. 164+79.39
<u>CURVE C103</u> R 150.00' Δ 8°27'20" PC STA. 164+80.11 PT STA. 165+02.24	<u>CURVE C104</u> R 400.00' Δ 8°49'20" PC STA. 165+79.12 PT STA. 166+40.71	<u>CURVE C105</u> R 250.00' Δ 7°00'35" PC STA. 166+79.75 PT STA. 167+10.34	<u>CURVE C106</u> R 140.00' Δ 11°36'53" PC STA. 167+10.75 PT STA. 167+39.13	<u>CURVE C107</u> R 250.00' Δ 7°35'42" PC STA. 167+57.77 PT STA. 167+90.91	<u>CURVE C108</u> R 90.00' Δ 16°47'52" PC STA. 167+91.98 PT STA. 168+18.37	<u>CURVE C109</u> R 35.00' Δ 26°05'24" PC STA. 168+30.14 PT STA. 168+46.08	<u>CURVE C110</u> R 40.00' Δ 24°24'31" PC STA. 168+55.00 PT STA. 168+72.04	<u>CURVE C111</u> R 275.00' Δ 7°43'43" PC STA. 168+72.77 PT STA. 169+09.87
<u>CURVE C112</u> R 750.00' Δ 2°17'16" PC STA. 169+22.61 PT STA. 169+52.56	<u>CURVE C113</u> R 750.00' Δ 1°23'14" PC STA. 169+52.56 PT STA. 169+70.72	<u>CURVE C114</u> R 200.00' Δ 7°11'09" PC STA. 169+98.13 PT STA. 170+23.21	<u>CURVE C115</u> R 130.00' Δ 9°25'34" PC STA. 170+24.62 PT STA. 170+46.00	<u>CURVE C116</u> R 175.00' Δ 10°44'54" PC STA. 170+64.94 PT STA. 170+97.76	<u>CURVE C117</u> R 25.00' Δ 31°04'34" PC STA. 170+98.37 PT STA. 171+11.93	<u>CURVE C118</u> R 55.00' Δ 10°06'17" PC STA. 171+23.39 PT STA. 171+33.09	<u>DEFLECTION D7</u> Δ 0°48'01" STA. 171+33.44	<u>CURVE C119</u> R 30.00' Δ 50°27'29" PC STA. 171+79.24 PT STA. 172+05.66
<u>CURVE C120</u> R 60.00' Δ 16°42'31" PC STA. 172+06.71 PT STA. 172+24.21	<u>CURVE C121</u> R 100.00' Δ 12°14'46" PC STA. 174+19.31 PT STA. 174+40.68	<u>CURVE C122</u> R 100.00' Δ 48°19'22" PC STA. 183+85.94 PT STA. 184+70.28	<u>DEFLECTION D8</u> Δ 19°57'53" STA. 184+90.10					

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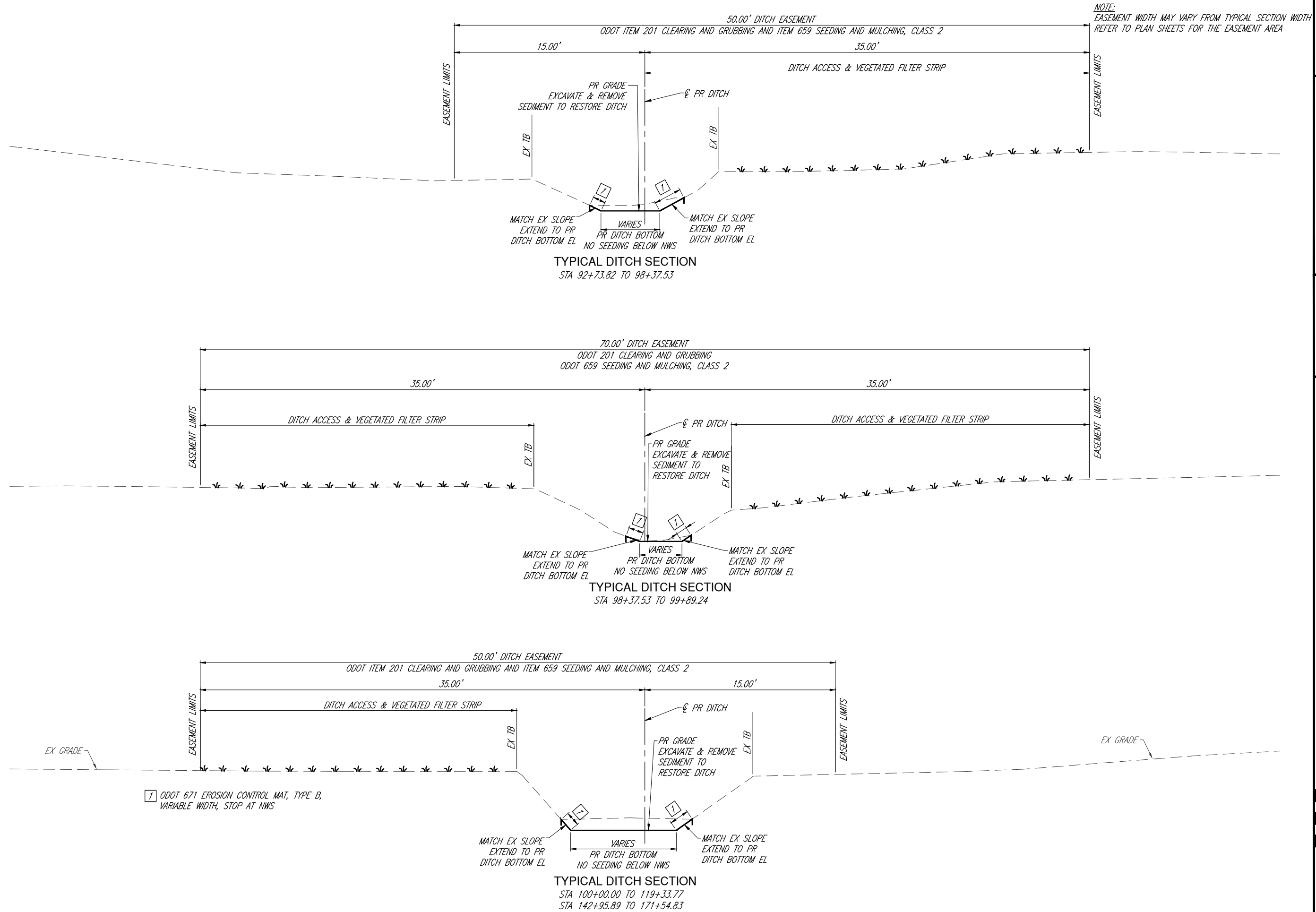
FOSTER DITCH RESTORATION

LAGRANGE TOWNSHIP

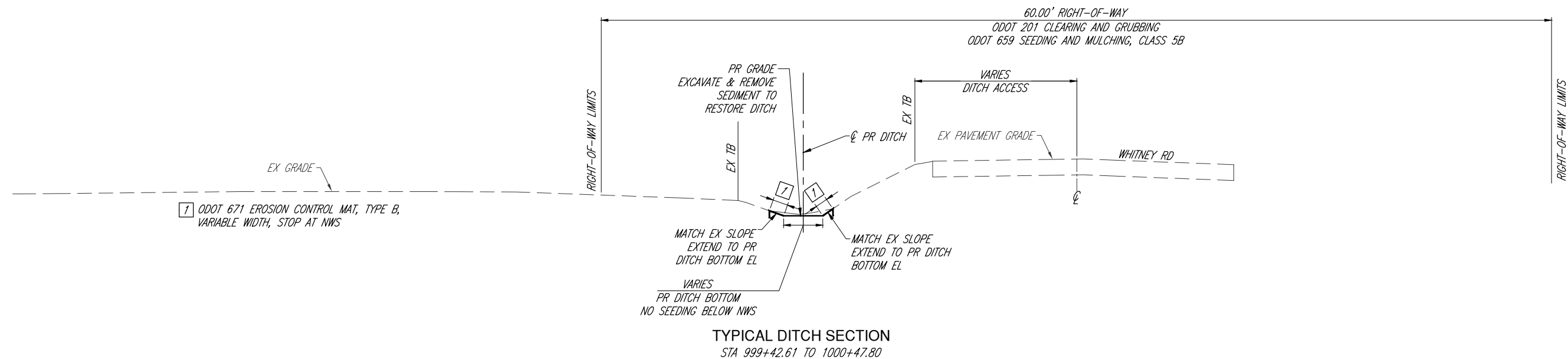
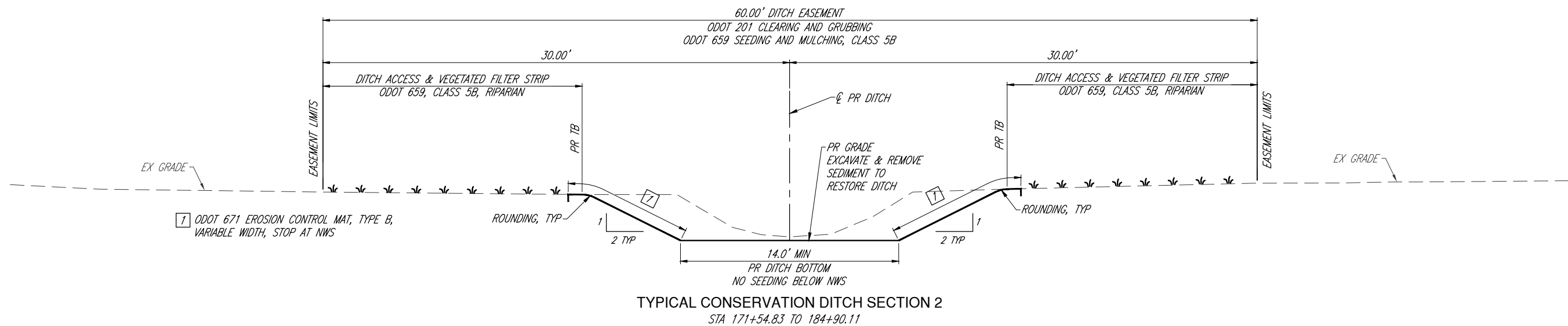
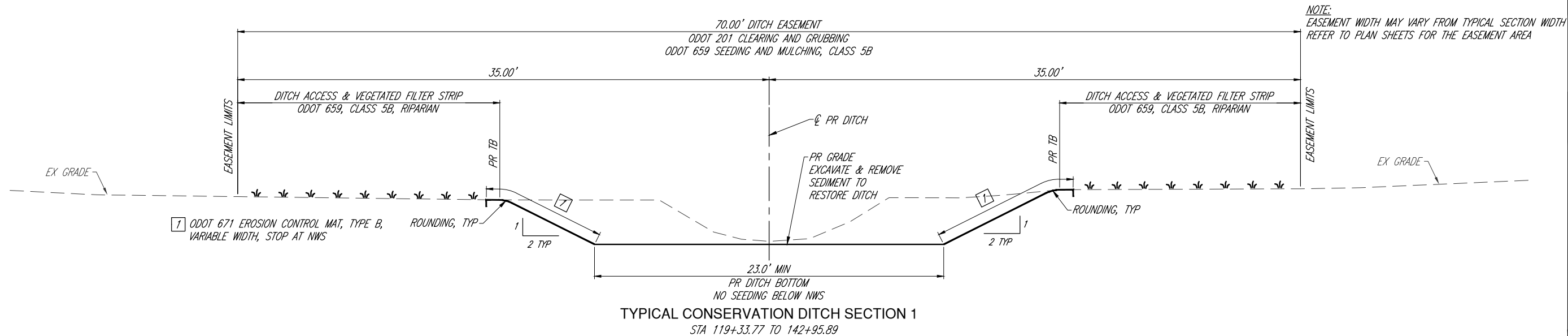
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REVISION	DATE	
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GENERAL NOTES		
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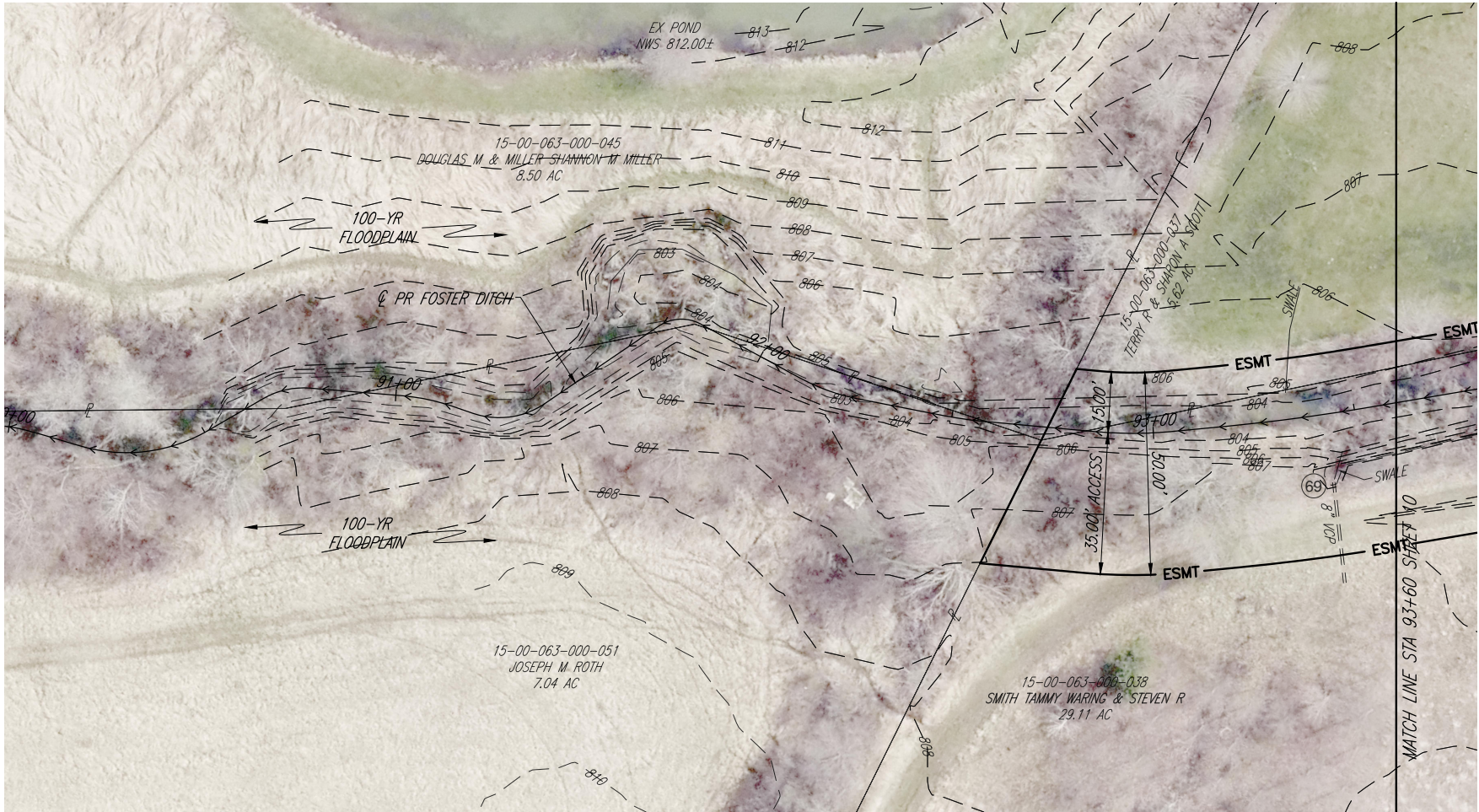


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LORAIN COUNTY, OHIO

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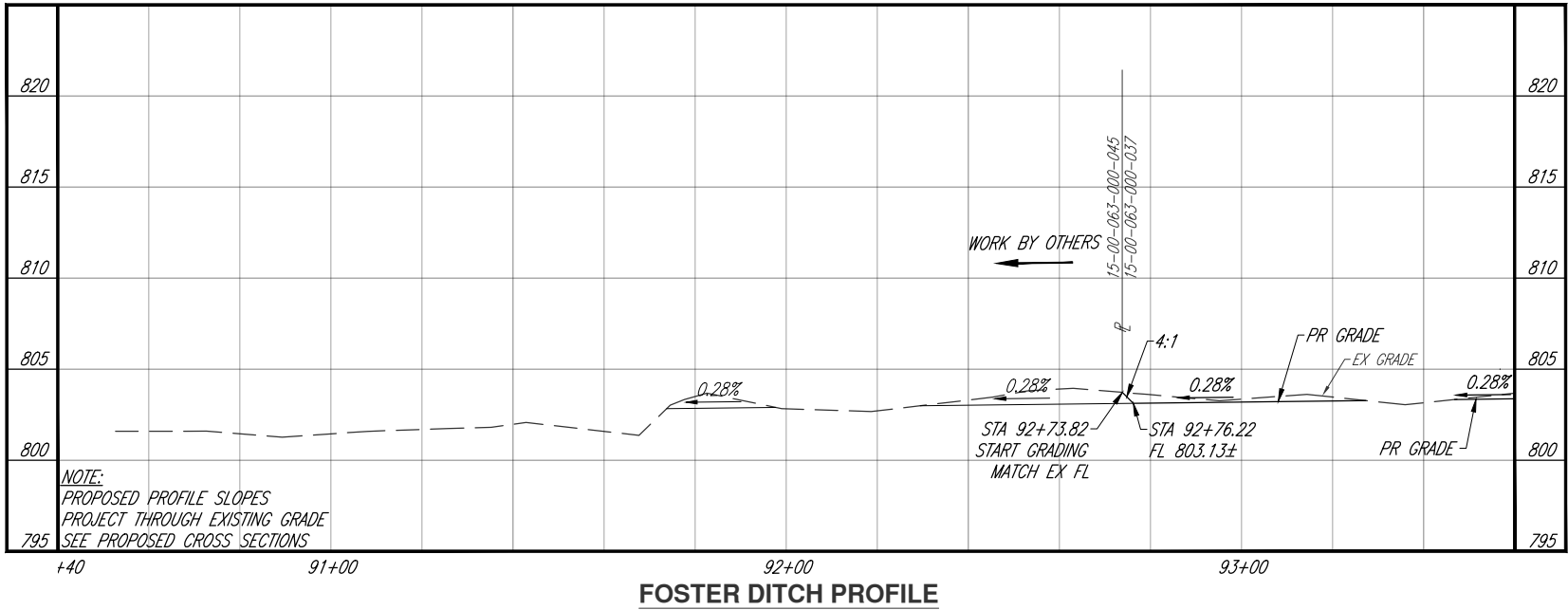
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FOSTER DITCH

STRUCTURE DATA	
(69)	EX PIPE OUTLET INV 805.29(SW) 8"



0 20 40
HORIZONTAL SCALE IN FEET

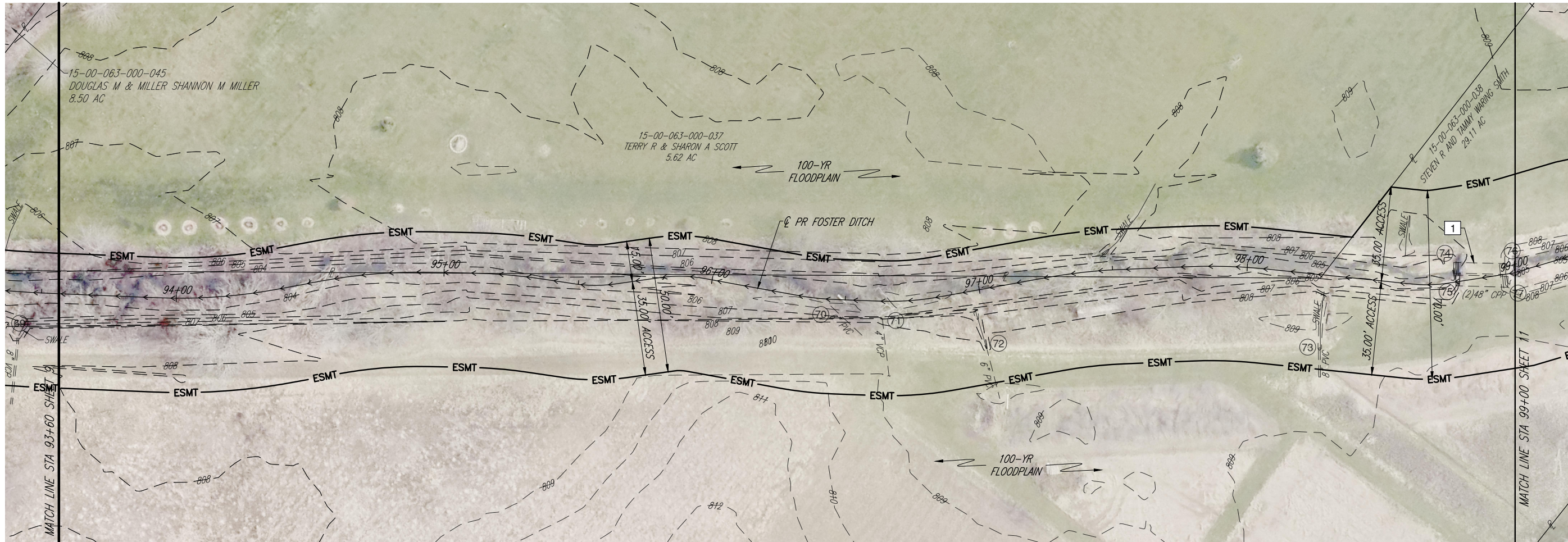
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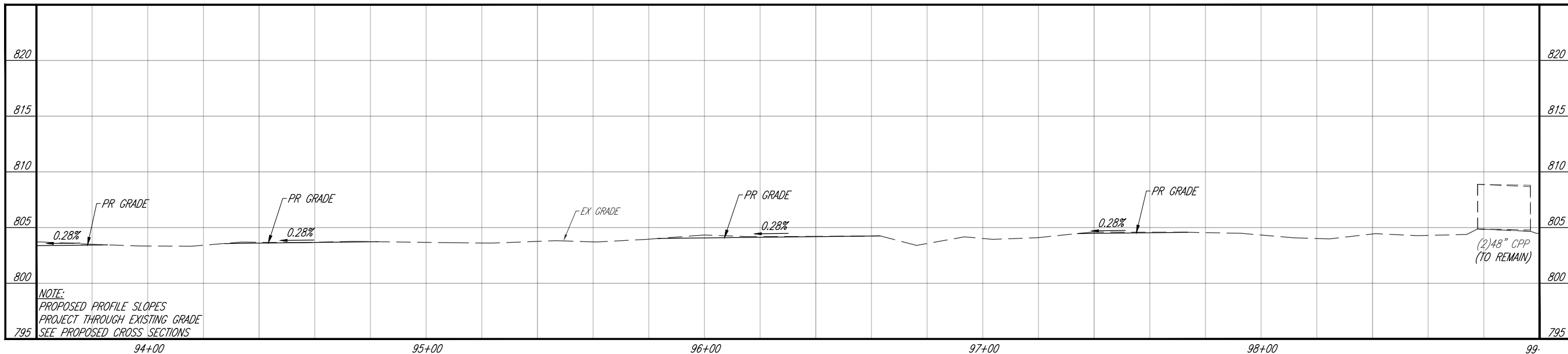
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STRUCTURE DATA

(70) EX PIPE OUTLET INV 805.69(S) 6"	(73) EX PIPE OUTLET INV 807.51(SE) 8"	(76) EX PIPE OUTLET INV 804.67(NW) 48"
(71) EX PIPE OUTLET INV 805.63(SE) 4"	(74) EX PIPE INLET INV 804.88(SE) 48"	(77) EX PIPE OUTLET INV 804.80(NW) 48"
(72) EX PIPE OUTLET INV 807.37(SW) 6"	(75) EX PIPE INLET INV 804.88(SE) 48"	

CODED NOTES

- INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- EX TWIN 48" CULVERT TO REMAIN. DO NOT DISTURB.



FOSTER DITCH PROFILE

FOSTER DITCH RESTORATION

LAGRANGE TOWNSHIP
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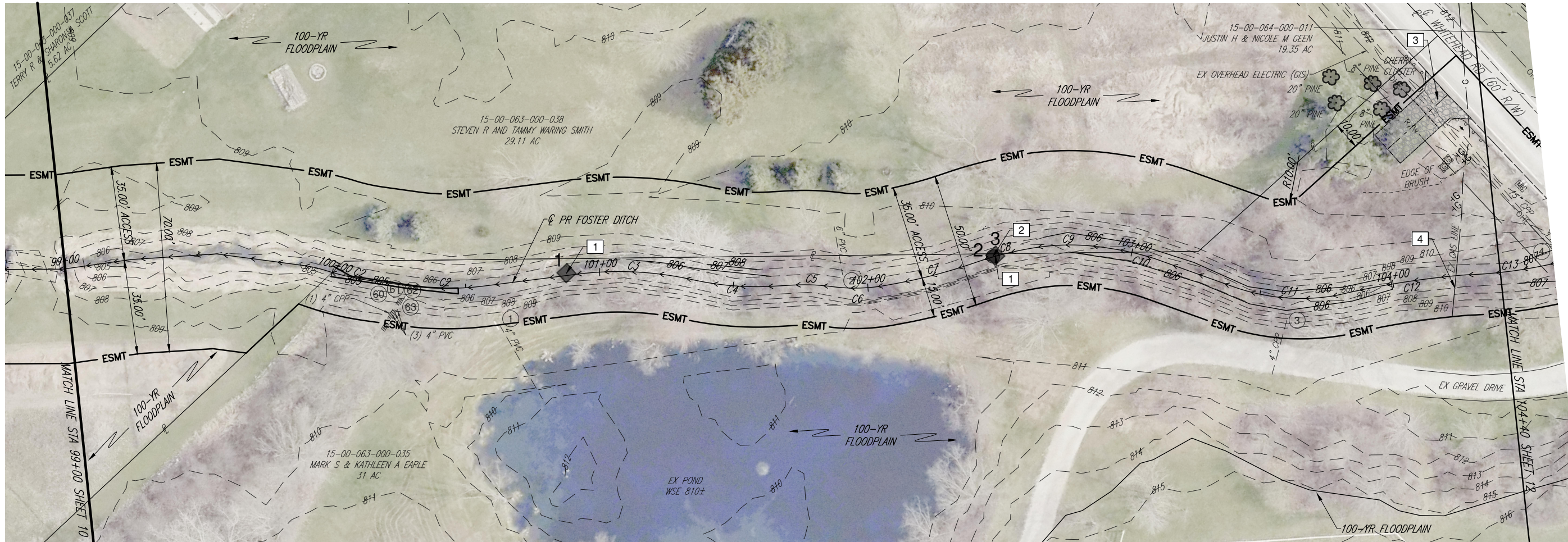
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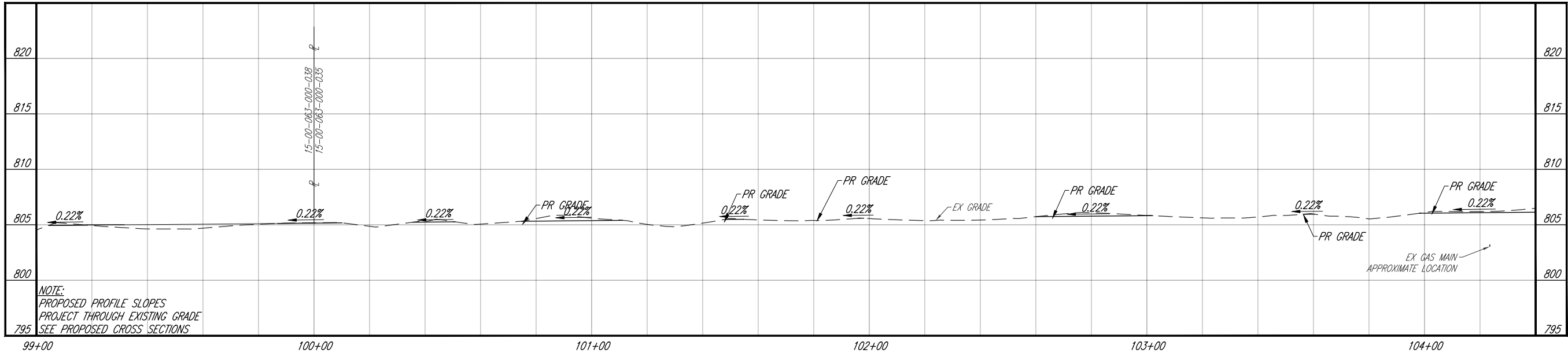
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FOSTER DITCH

STRUCTURE DATA		
60 EX PIPE OUTLET INV UNKNOWN(SW) 4"	63 EX PIPE OUTLET INV UNKNOWN(SW) 4"	3 EX PIPE OUTLET INV 808.37(SW) 4"
61 EX PIPE OUTLET INV UNKNOWN(SW) 4"	1 EX PIPE OUTLET INV 809.24(S) 4"	
62 EX PIPE OUTLET INV UNKNOWN(SW) 4"	2 EX PIPE OUTLET INV 806.42(NE) 6"	

CODED NOTES	
#	INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
1.	REMOVE SEDIMENT (1 CF±)
2.	REMOVE LOG JAM.
3.	PR ACCESS DRIVE. SEE SHEET 28 FOR DETAILS.
4.	EX GAS LINE. DO NOT DISTURB.



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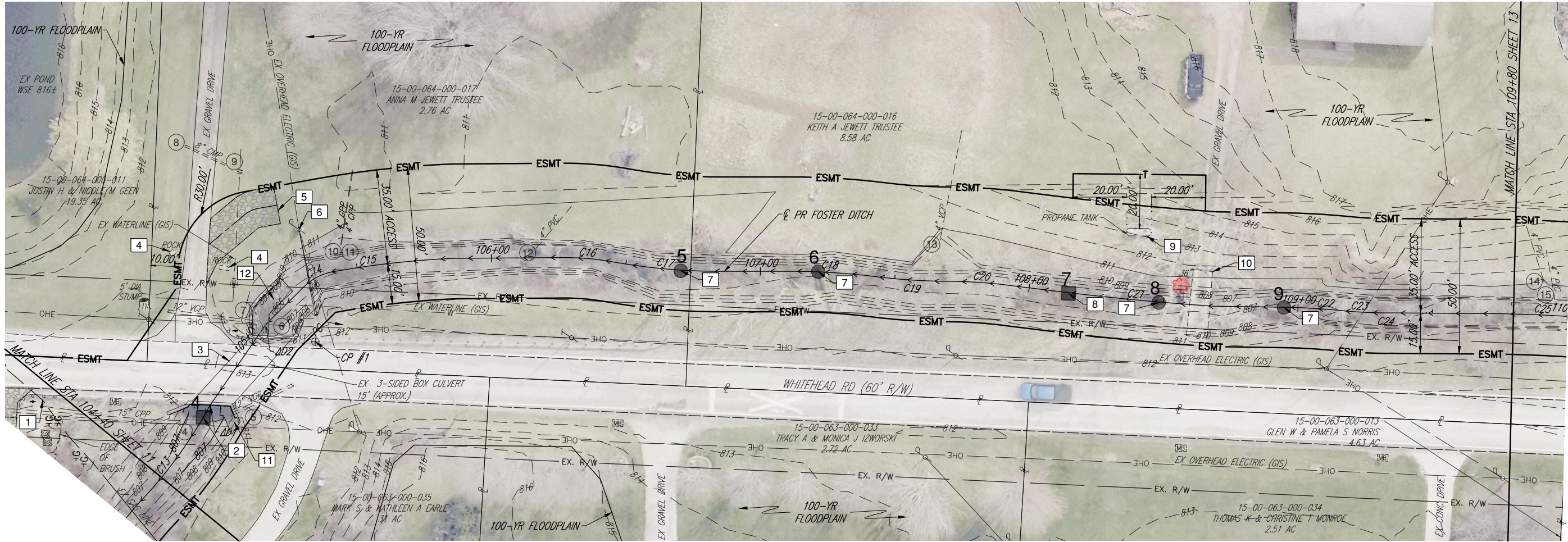
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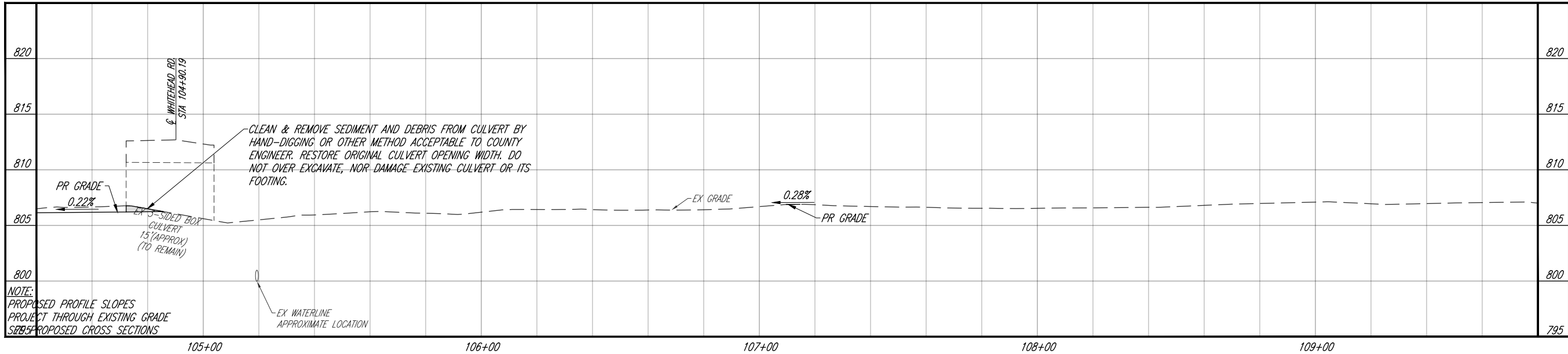
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STRUCTURE DATA

④ EX PIPE OUTLET INV 807.76 (N) 15"	⑦ EX PIPE OUTLET INV 807.87(N) 12"	⑩ EX PIPE OUTLET INV 809.49(E) 4"	⑬ EX PIPE OUTLET INV 809.80(E) 4"
⑤ EX BOX CULVERT FL 806.76(E) 15' (APPROX.)	⑧ EX PIPE INLET INV 811.22(SW) 8"	⑪ EX PIPE OUTLET INV 809.49(E) 4"	
⑥ EX BOX CULVERT FL 805.44 (W) 15' (APPROX.)	⑨ EX PIPE OUTLET INV 810.31(NE) 8"	⑫ EX PIPE OUTLET INV 808.12(SE) 4"	

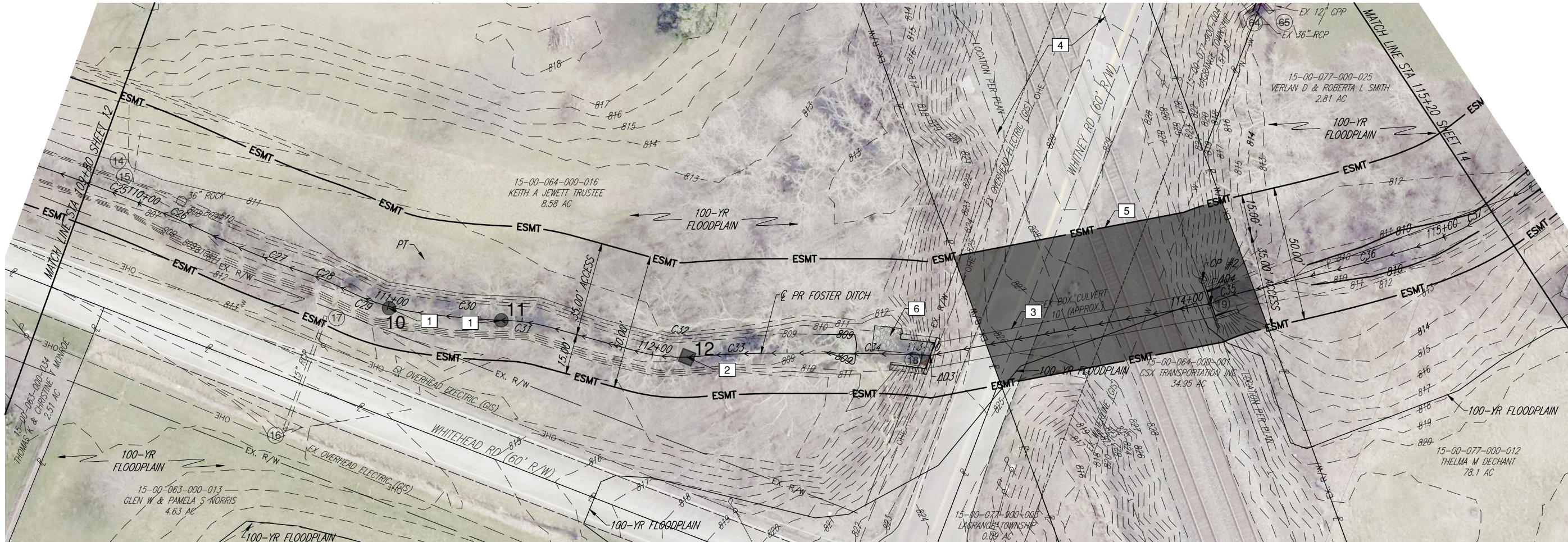
INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW

- EX GAS LINE TO REMAIN. DO NOT DISTURB.
- REMOVE SEDIMENT (2 CY±)
- EX BOX CULVERT TO REMAIN. DO NOT DISTURB.
- EX ROCK TO REMAIN. DO NOT DISTURB.
- PR ACCESS DRIVE. SEE SHEET 29 FOR DETAILS.
- EX POWER POLE TO REMAIN. DO NOT DISTURB.
- REMOVE LOG JAM.
- REMOVE SEDIMENT (1 CF±)
- EX PROPANE TANK TO REMAIN. DO NOT DISTURB.
- EX BRIDGE TO REMAIN. DO NOT DISTURB.
- PR ROCK CHANNEL PROTECTION, TYPE B (5 CY). PLACE AS DIRECTED TO REPAIR EROSION.
- PR ROCK CHANNEL PROTECTION, TYPE B (15 CY). PLACE AS DIRECTED TO REPAIR EROSION.



FOSTER DITCH PROFILE

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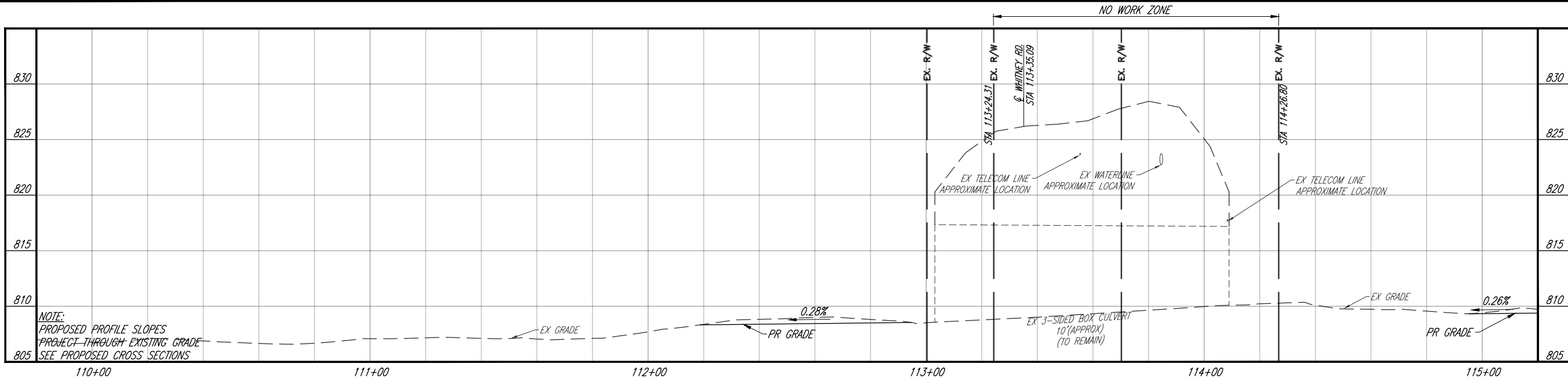
FOSTER DITCH

STRUCTURE DATA

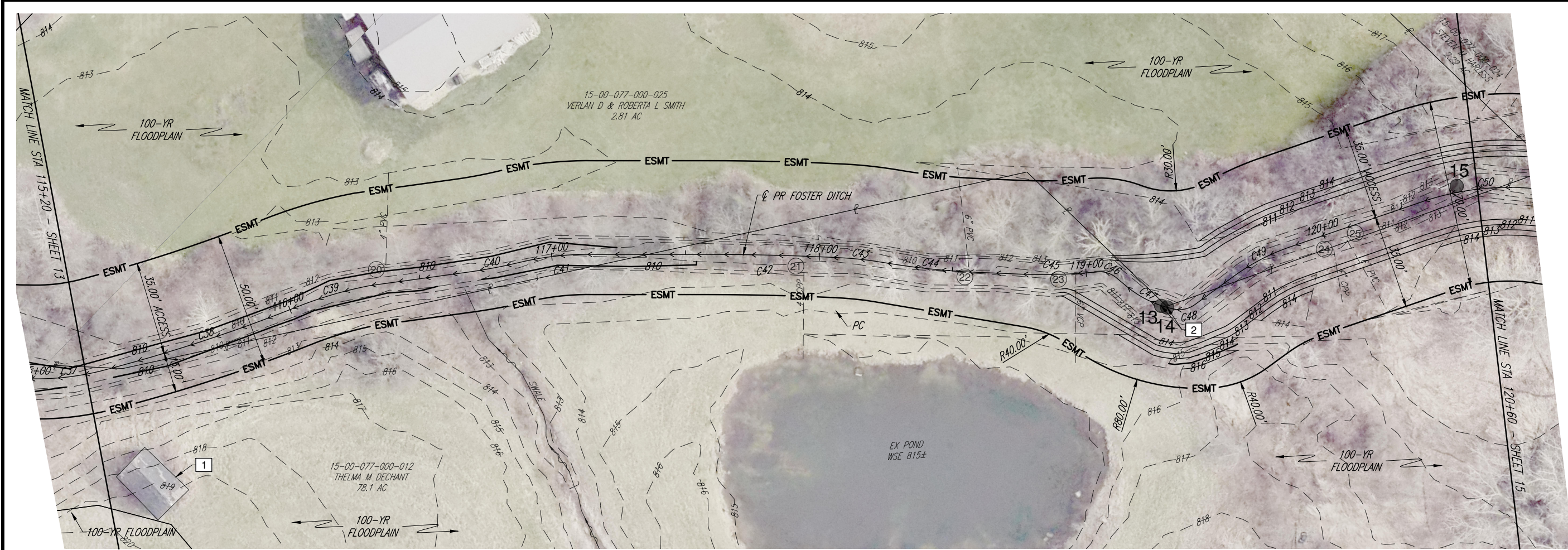
- | | | |
|---------------------------------------|--|---|
| 14 EX PIPE OUTLET
INV 810.15(N) 4" | 17 EX PIPE OUTLET
INV 809.62(W) 15" | 64 EX PIPE OUTLET
INV UNKNOWN(N) 36" |
| 15 EX PIPE OUTLET
INV 809.32(N) 4" | 18 EX BOX CULVERT
FL 808.57(S) 10' (APPROX.) | 65 EX PIPE OUTLET
INV UNKNOWN(N) 12" |
| 16 EX PIPE INLET
INV 810.51(E) 15" | 19 EX BOX CULVERT
FL 810.09(NW) 10' (APPROX.) | |

CODED NOTES

- # INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
1. REMOVE LOG JAM.
 2. REMOVE SEDIMENT (3± CY).
 3. EX BOX CULVERT TO REMAIN. DO NOT DISTURB.
 4. EX TELEPHONE LINE TO REMAIN. DO NOT DISTURB.
 5. NO CLEARING IN THE SHADED EASEMENT AREA.
 6. PR ROCK CHANNEL PROTECTION, TYPE B (15 CY). PLACE AS DIRECTED TO REPAIR EROSION.



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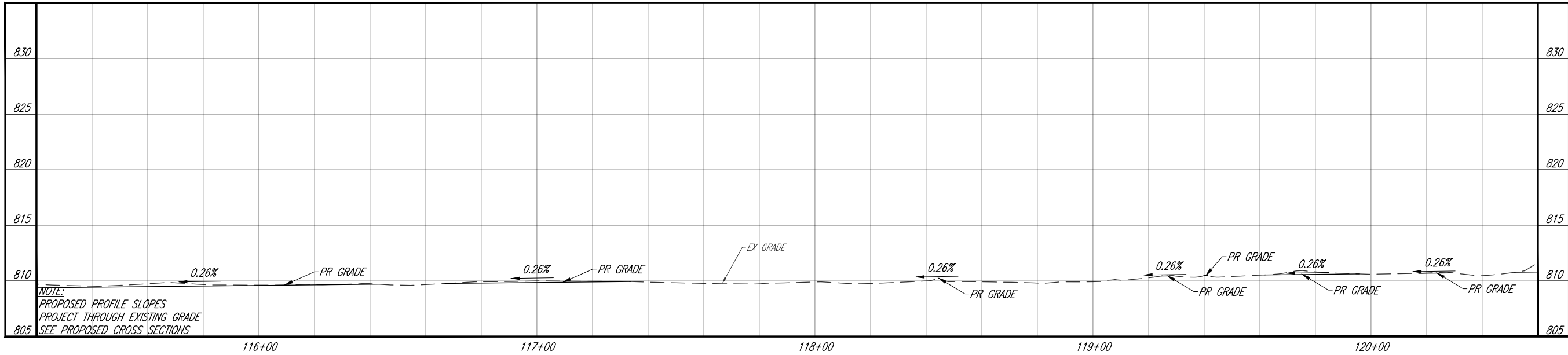
FOSTER DITCH

STRUCTURE DATA

20 EX PIPE OUTLET INV 812.17(NE) 4"	23 EX PIPE OUTLET INV 810.36(SW) 6"
21 EX PIPE OUTLET INV 811.20(SW) 4"	24 EX PIPE OUTLET INV 811.66(SW) 4"
22 EX PIPE OUTLET INV 811.23(NE) 6"	25 EX PIPE OUTLET INV 811.92(SW) 6"

CODED NOTES

- ← # INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- EX BUILDING TO REMAIN. DO NOT DISTURB.
 - REMOVE LOG JAM.



FOSTER DITCH PROFILE

FOSTER DITCH
RESTORATION
LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

DESIGNED	DRAWN	CHECKED
AEA	IAP	MWR
REVISION	DATE	
DRAFT 06	06/02/2025	
SHEET NAME		

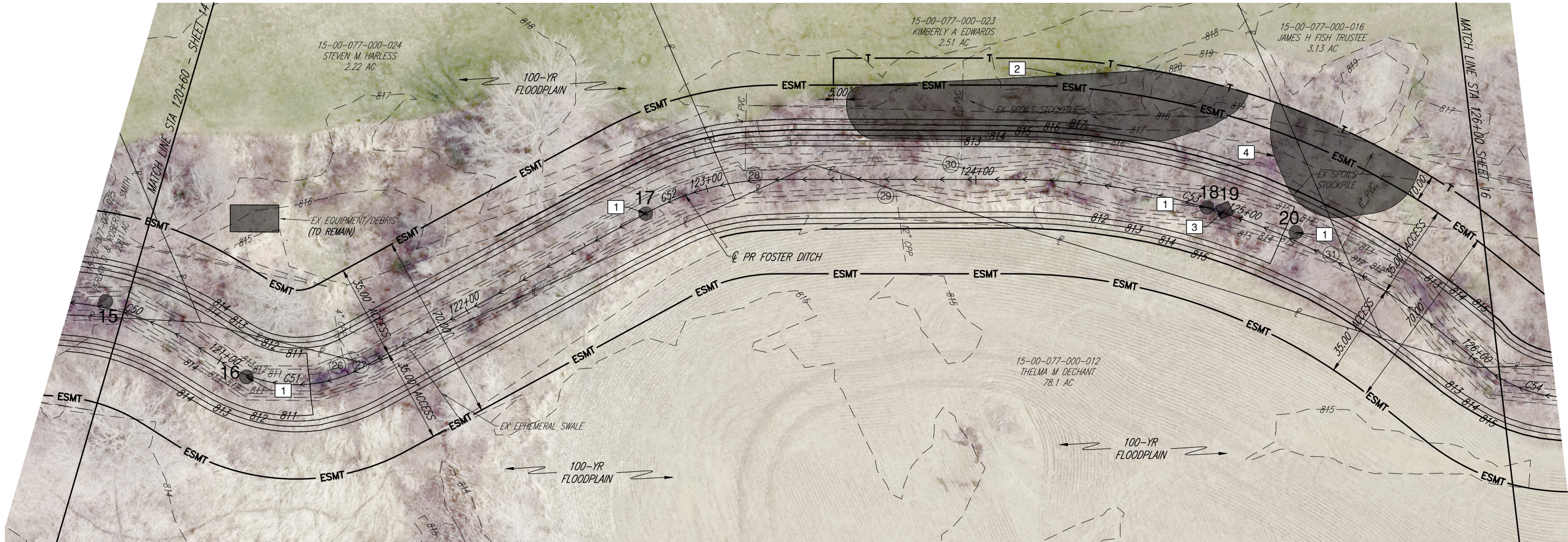
PLAN & PROFILE

SHEET NUMBER	
14	52

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FOSTER DITCH

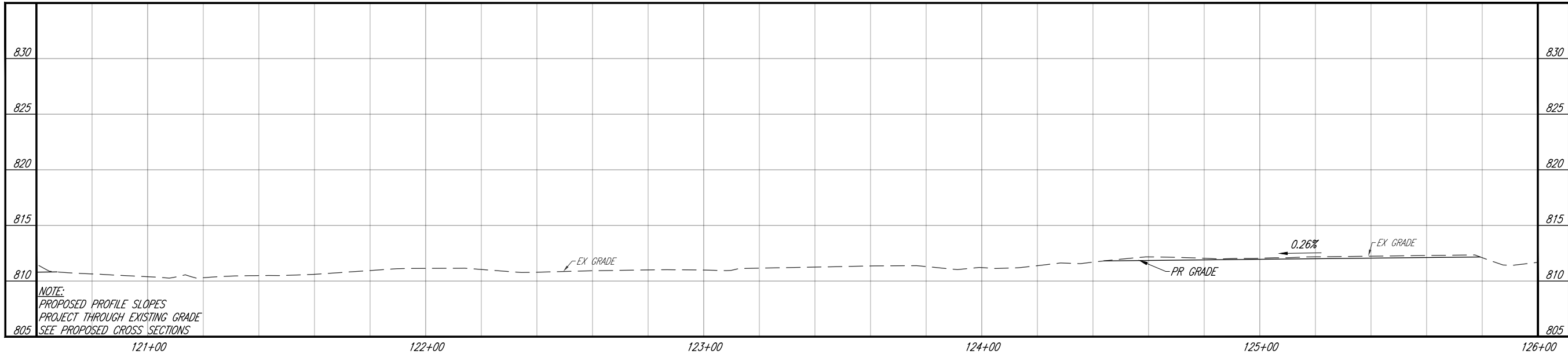
STRUCTURE DATA

(26) EX PIPE OUTLET INV 811.89(N) 4"	(29) EX PIPE OUTLET INV 813.79(SW) 12"
(27) EX PIPE OUTLET INV 812.11(N) 4"	(30) EX PIPE OUTLET INV 814.94(NE) 6"
(28) EX PIPE OUTLET INV 813.93(NE) 4"	(31) EX PIPE OUTLET INV 812.95(NE) 6"

CODED NOTES

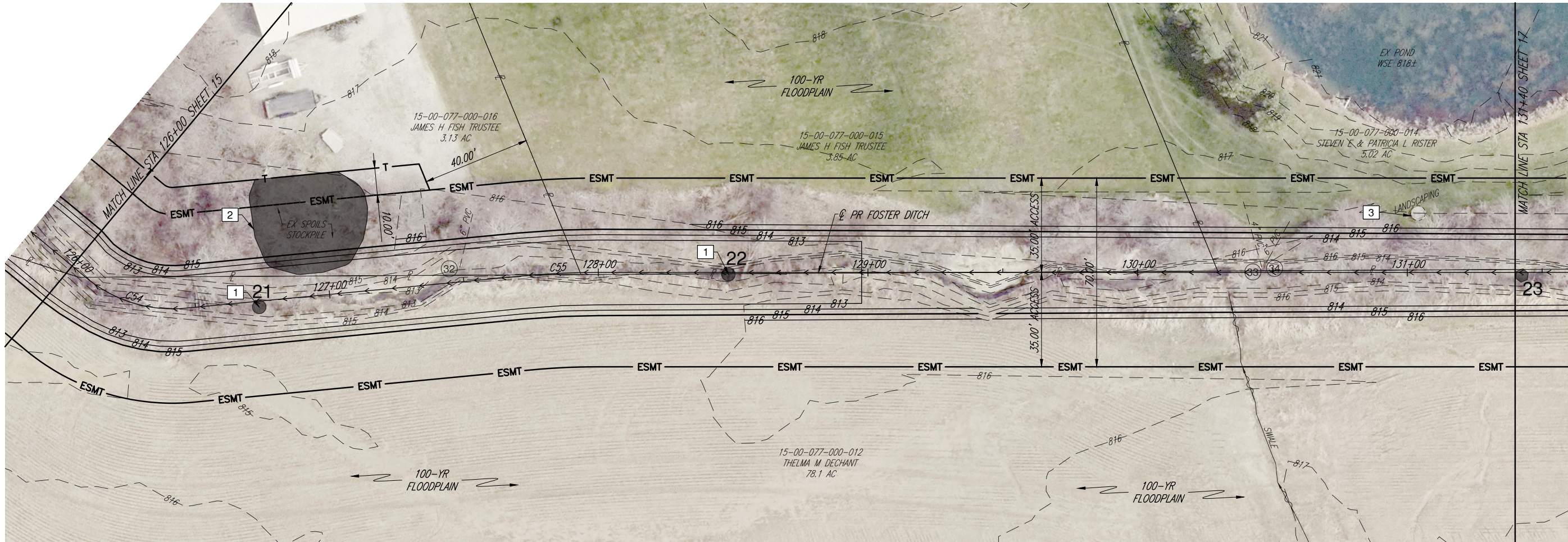
INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW

1. REMOVE LOG JAM.
2. REMOVE EX STOCKPILE (312± CY).
3. REMOVE SEDIMENT (1± CY).
4. REMOVE EX STOCKPILE (145± CY).



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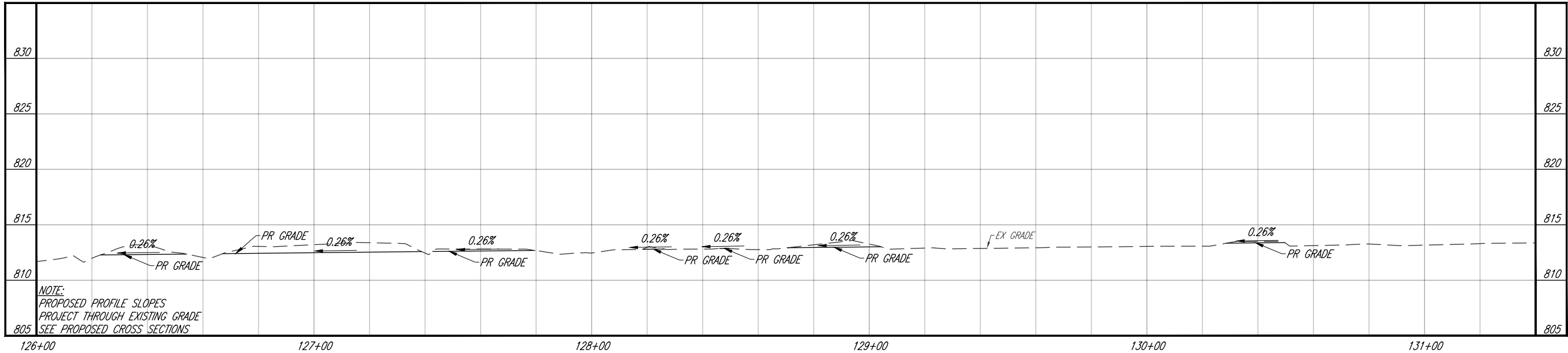


STRUCTURE DATA

- 32 EX PIPE OUTLET
INV 813.98(NE) 6"
- 33 EX PIPE OUTLET
INV 814.16(N) 4"
- 34 EX PIPE OUTLET
INV 814.13(NE) 6"

CODED NOTES

- INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- REMOVE LOG JAM.
 - REMOVE EX STOCKPILE (148± CY).
 - EX LANDSCAPING TO REMAIN. DO NOT DISTURB.



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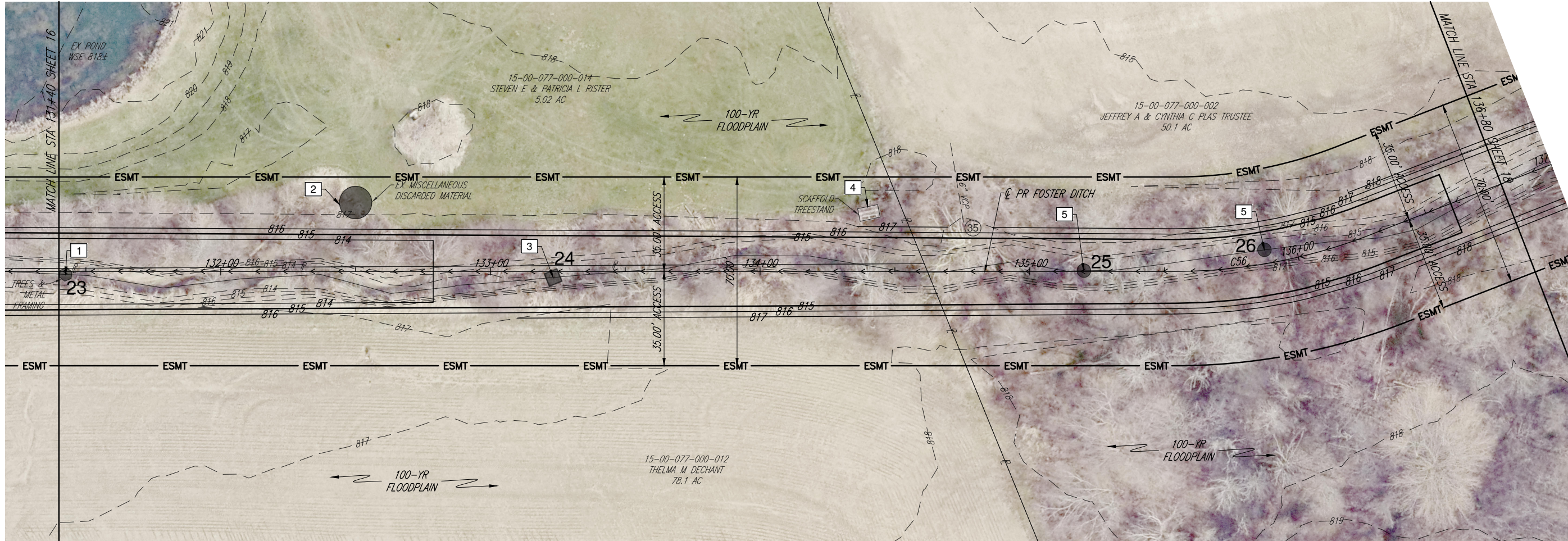
LORAIN COUNTY
OHIO
SENIOR
COMMISSIONER

**FOSTER DITCH
RESTORATION**
LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

DESIGNED	DRAWN	CHECKED
AEA	IAP	MWR
REVISION	DATE	
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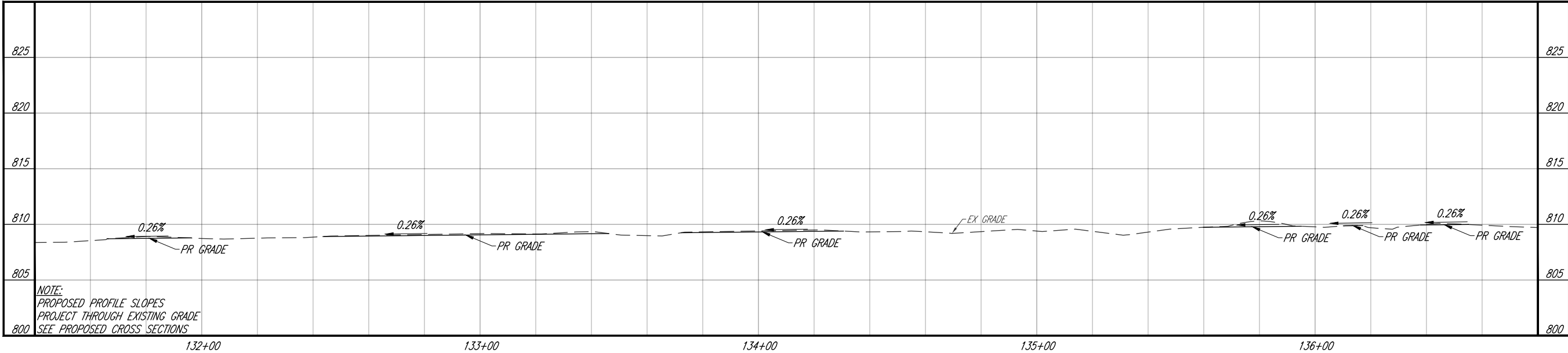
FOSTER DITCH

STRUCTURE DATA

(35) EX PIPE OUTLET
INV 815.68(N.E) 6"

CODED NOTES

- INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- REMOVE OBSTRUCTION.
 - EX DEBRIS TO BE REMOVED.
 - REMOVE SEDIMENT (1± CY).
 - EX SCAFFOLD TREESTAND TO BE REMOVED BY OTHERS.
 - REMOVE LOG JAM.



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SHEET NAME		

PLAN & PROFILE

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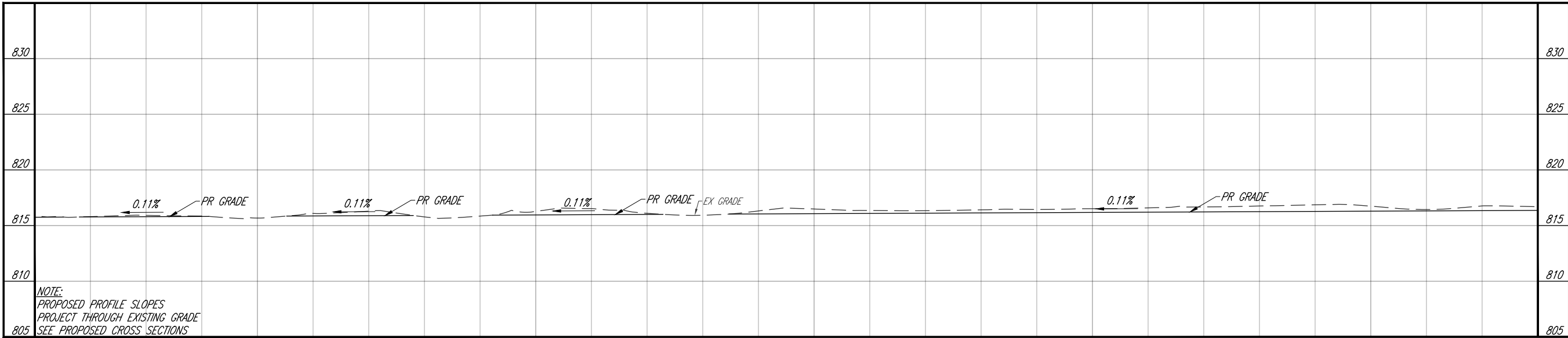
FOSTER DITCH

STRUCTURE DATA

- (42) EX PIPE OUTLET
INV 816.89(N) 4"
- (43) EX PIPE OUTLET
INV 817.13(N) 4"
- (66) EX PIPE OUTLET
INV UNKNOWN(S) 6"

CODED NOTES

- # INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- EX WOOD PILE TO BE REMOVED BY OTHERS.
 - EX BRIDGE TO REMAIN, DO NOT DISTURB.
 - REMOVE EX FENCE, 33'±.



FOSTER DITCH PROFILE

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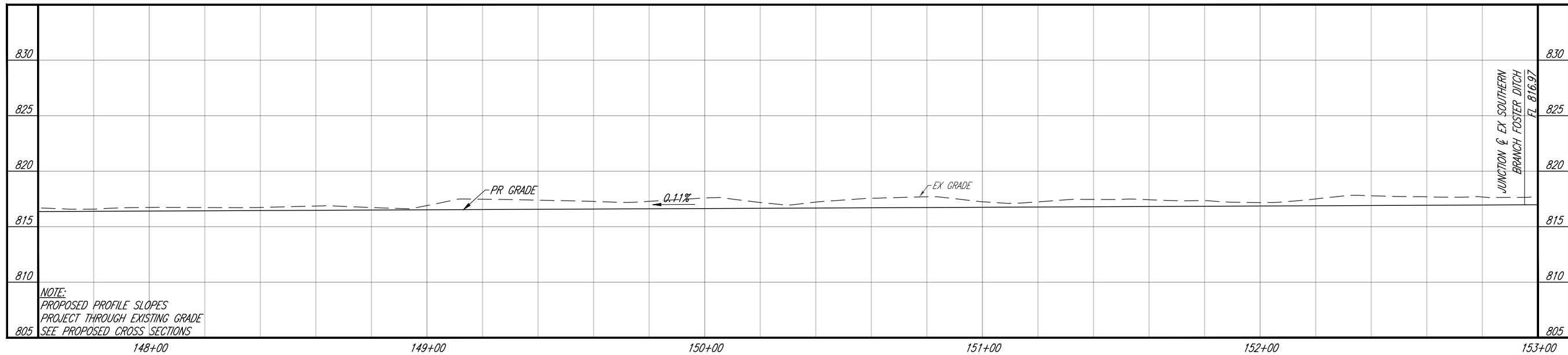
0 20 40
FOSTER DITCH

STRUCTURE DATA

- (44) EX PIPE OUTLET
INV 818.17(N) 4"
- (45) EX PIPE OUTLET
INV 820.01(NE) 4"
- (67) EX PIPE OUTLET
INV UNKNOWN(NE) 6"

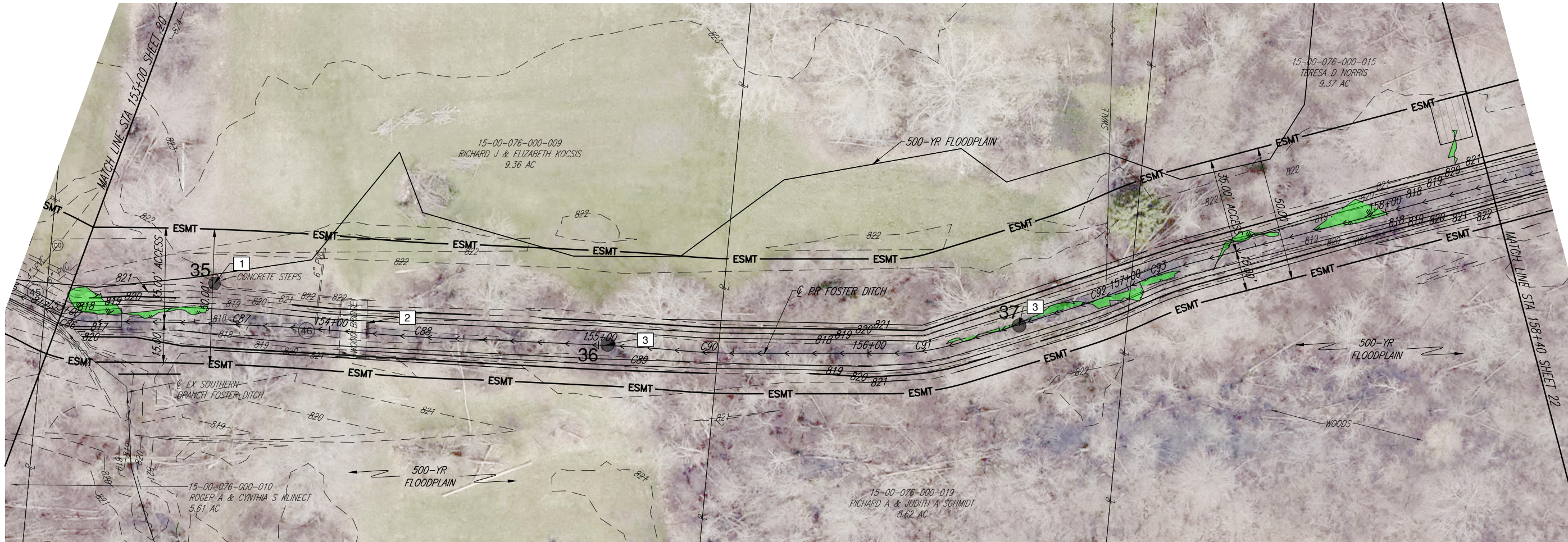
CODED NOTES

- ← # INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
1. REMOVE SEDIMENT (1± CY).
 2. REMOVE SEDIMENT (9± CY).
 3. EX BRIDGE TO REMAIN, DO NOT DISTURB.
 4. REMOVE LOG JAM.



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FOSTER DITCH

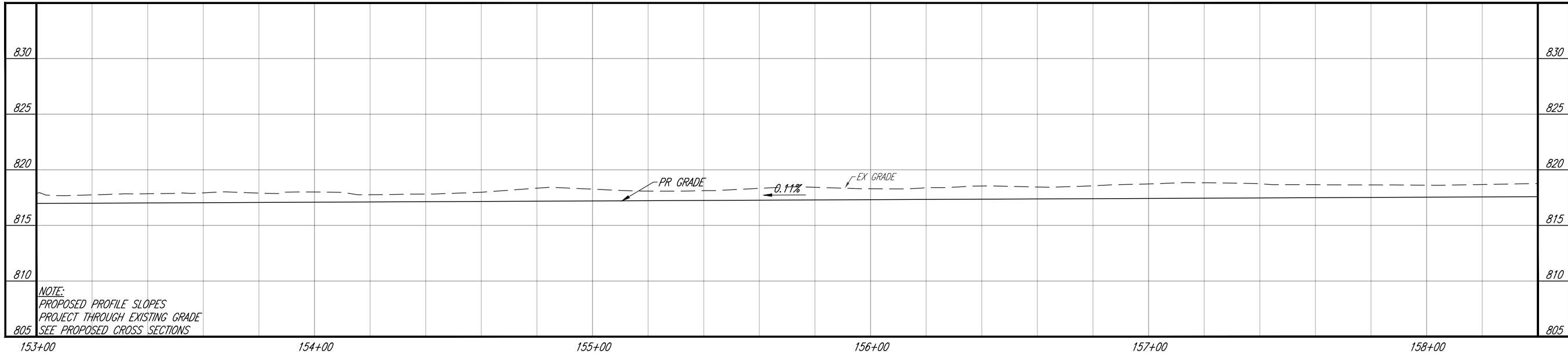
STRUCTURE DATA

(46) EX PIPE OUTLET
INV 818.17(N) 4"

CODED NOTES

INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW

1. REMOVE OBSTRUCTION.
2. EX BRIDGE TO REMAIN, DO NOT DISTURB.
3. REMOVE LOG JAM.



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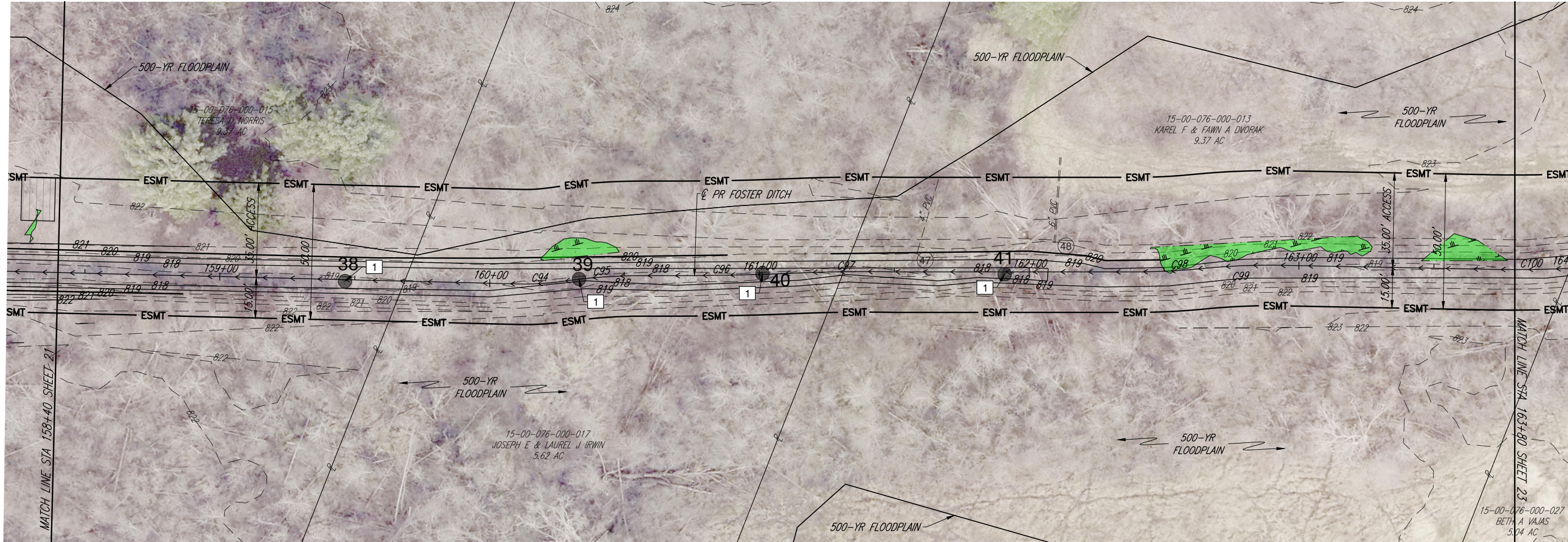
**FOSTER DITCH
RESTORATION**
LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

DESIGNED	DRAWN	CHECKED
AEA	IAP	MWR
REVISION	DATE	
DRAFT 06	06/02/2025	
SHEET NAME		

PLAN & PROFILE

SHEET NUMBER
21 / 52

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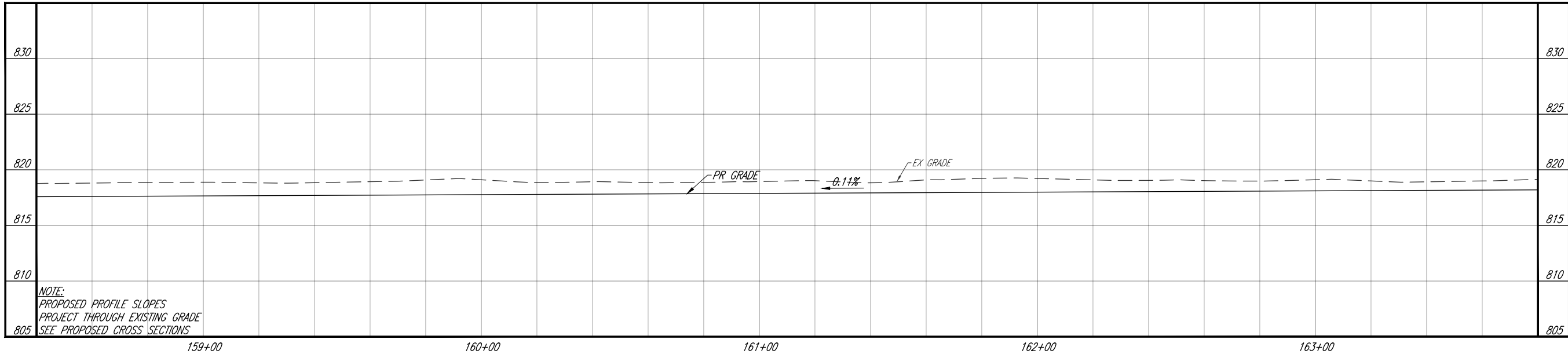
FOSTER DITCH

STRUCTURE DATA

- 47 EX PIPE OUTLET
INV 819.75(N) 4"
- 48 EX PIPE OUTLET
INV 820.75 (NW) 6"

CODED NOTES

- INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- REMOVE LOG JAM.



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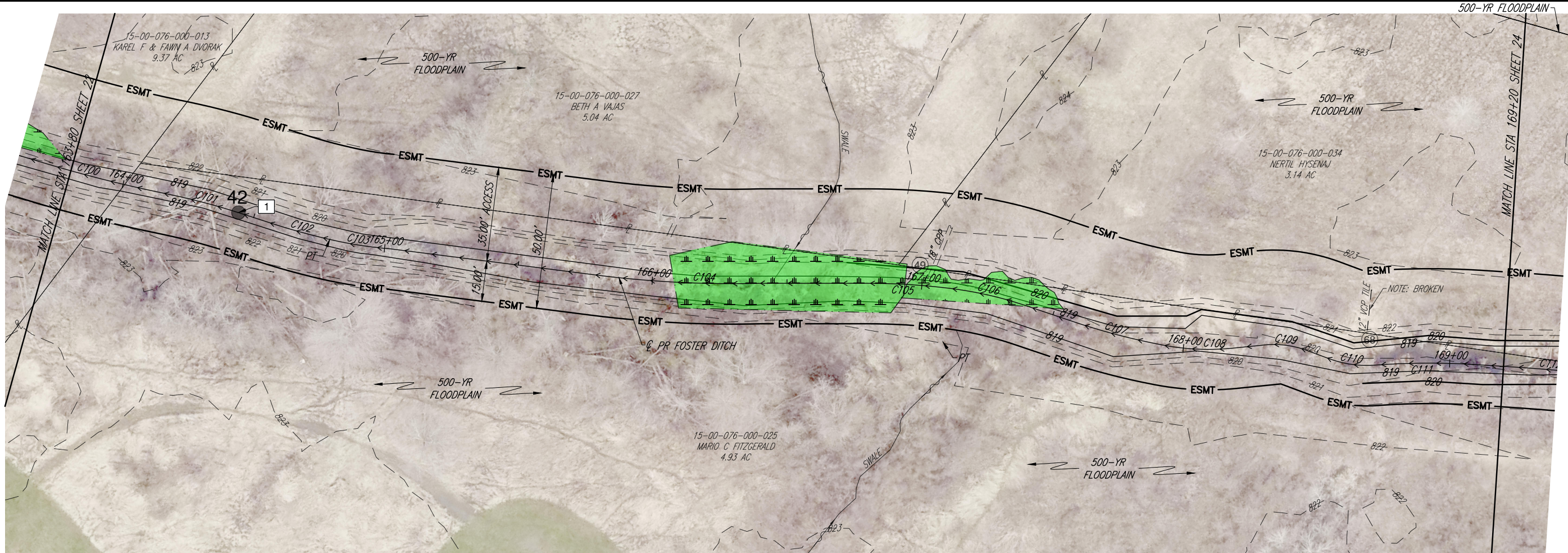
LORAIN COUNTY
OHIO
SENIOR'S COMMISSION

**FOSTER DITCH
RESTORATION**
LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

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REVISION	DATE	
DRAFT 06	06/02/2025	
SHEET NAME		

PLAN & PROFILE

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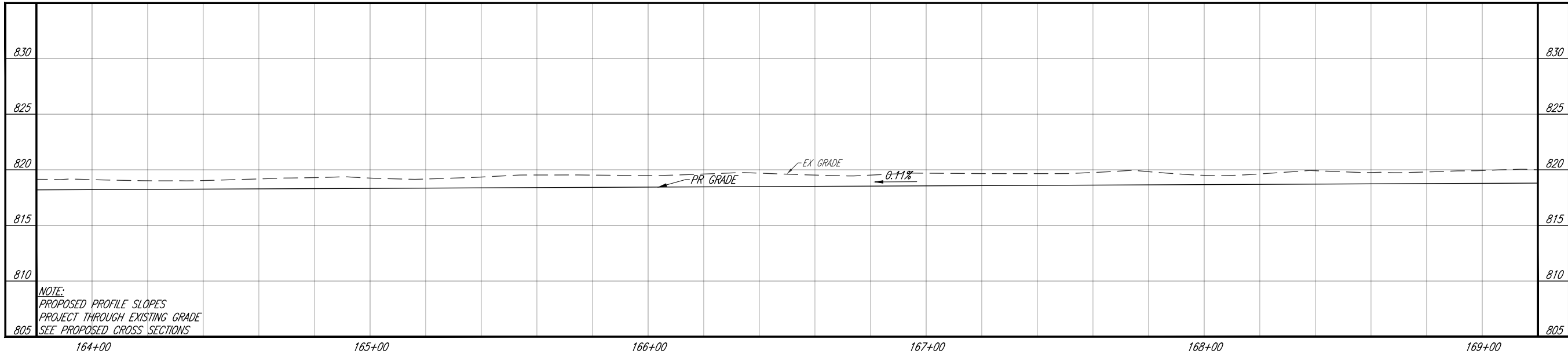
FOSTER DITCH

STRUCTURE DATA

- (49) EX PIPE OUTLET
INV 820.02(NW) 18"
- (68) EX PIPE OUTLET
INV 820.02(NW) 12"

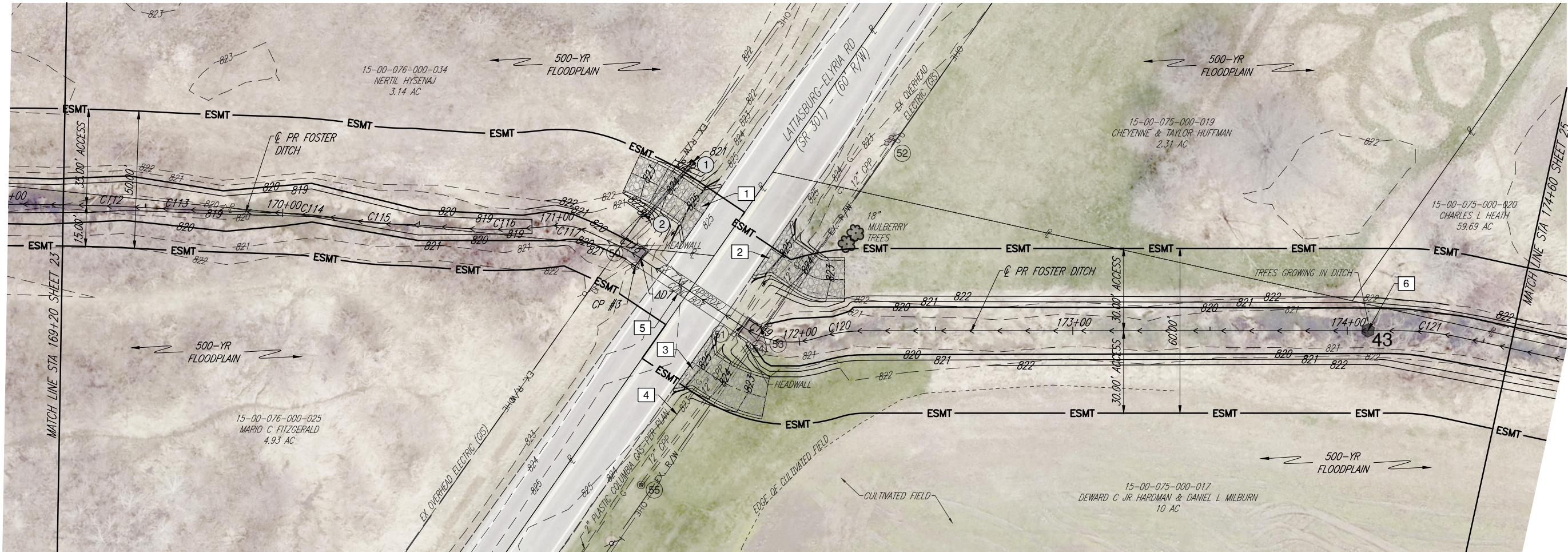
CODED NOTES

- INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
1. REMOVE LOG JAM.



NOTE:
PROPOSED PROFILE SLOPES
PROJECT THROUGH EXISTING GRADE
SEE PROPOSED CROSS SECTIONS

FOSTER DITCH PROFILE



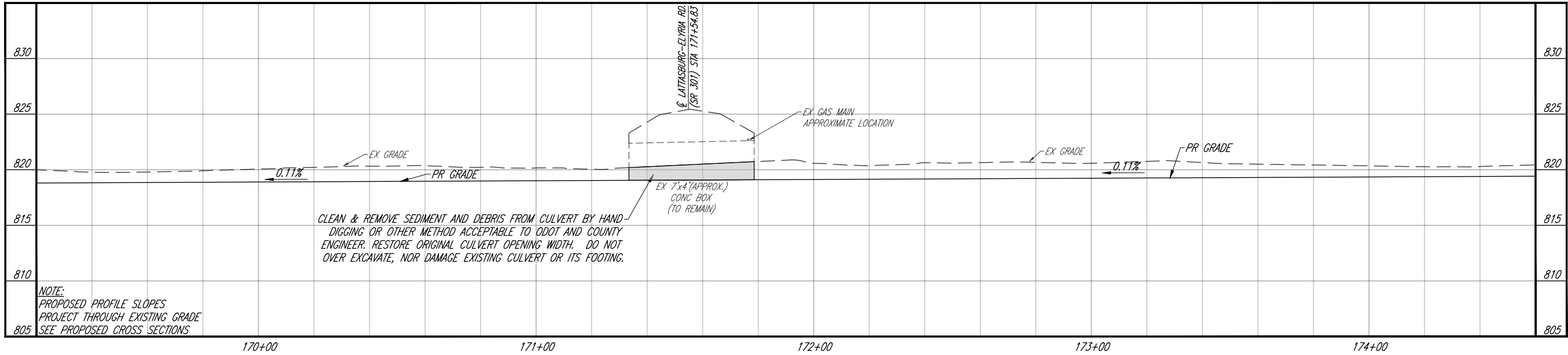
FOSTER DITCH

STRUCTURE DATA

- 50 EX BOX CULVERT
FL 819.98(E) 7'x4' (APPROX)
- 51 EX BOX CULVERT
FL 820.17(W) 7'x4' (APPROX)
- 52 EX PIPE INLET
INV 820.98(S) 12"
- 53 EX PIPE OUTLET
INV 819.88 (N) 12"
- 54 EX PIPE OUTLET
INV 819.72 (S) 12"
- 55 EX CATCH BASIN
821.95 T/GRATE
820.76 INV. 12" N

CODED NOTES

- # INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- 1. PR ACCESS DRIVE. SEE SHEET 31 FOR DETAILS.
 - 2. PR ACCESS DRIVE. SEE SHEET 32 FOR DETAILS.
 - 3. PR ACCESS DRIVE. SEE SHEET 33 FOR DETAILS.
 - 4. EX GAS LINE TO REMAIN. DO NOT DISTURB.
 - 5. EX BOX CULVERT & HEADWALLS TO REMAIN. DO NOT DISTURB.
 - 6. REMOVE OBSTRUCTION.



CLEAN & REMOVE SEDIMENT AND DEBRIS FROM CULVERT BY HAND DIGGING OR OTHER METHOD ACCEPTABLE TO ODOT AND COUNTY ENGINEER. RESTORE ORIGINAL CULVERT OPENING WIDTH. DO NOT OVER EXCAVATE, NOR DAMAGE EXISTING CULVERT OR ITS FOOTING.

NOTE:
PROPOSED PROFILE SLOPES
PROJECT THROUGH EXISTING GRADE
SEE PROPOSED CROSS SECTIONS

FOSTER DITCH PROFILE

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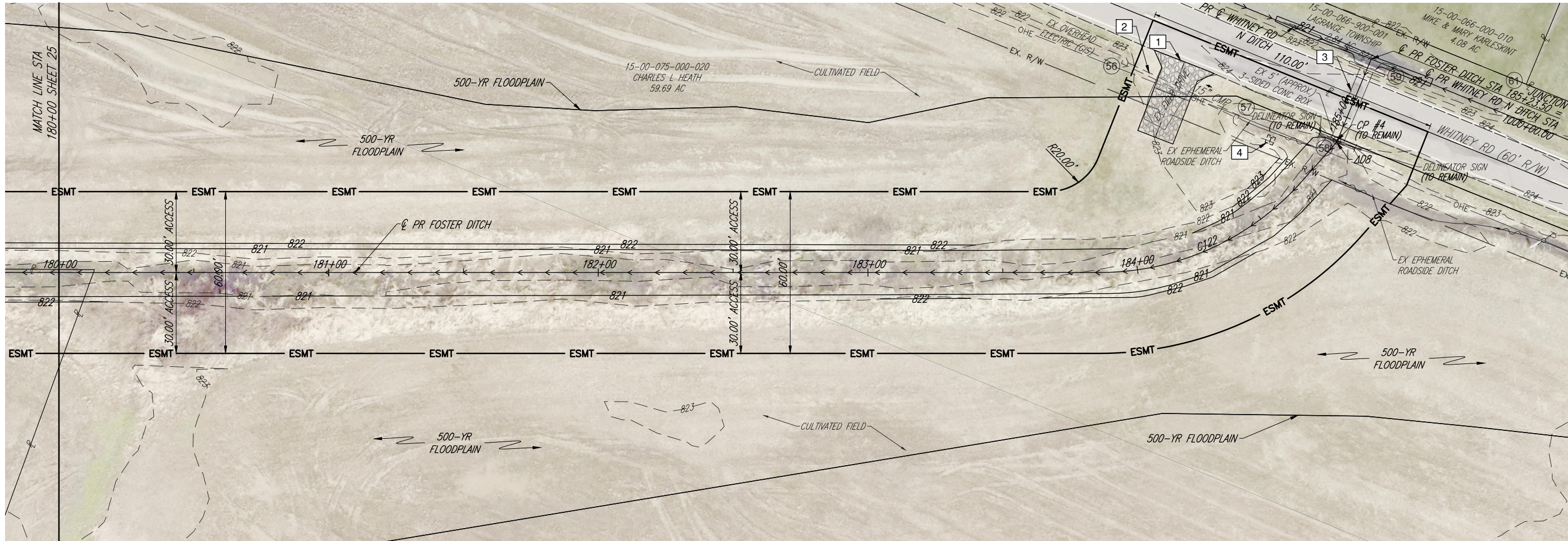
**FOSTER DITCH
RESTORATION**
LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

DESIGNED	DRAWN	CHECKED
AEA	IAP	MWR
REVISION		DATE
DRAFT 06		06/02/2025
SHEET NAME		

PLAN & PROFILE

SHEET NUMBER
24 / 52

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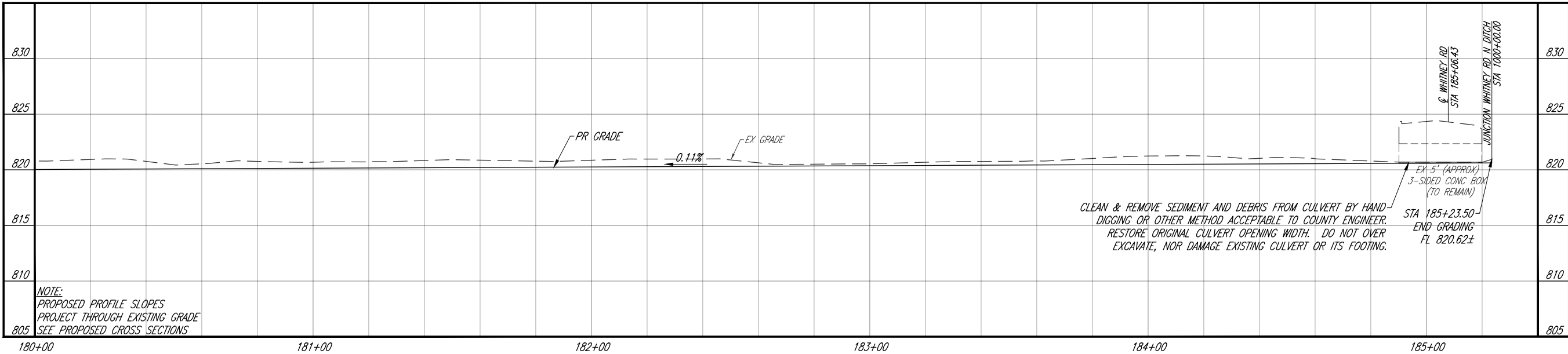
FOSTER DITCH

STRUCTURE DATA

- | | |
|--|--|
| 56 EX PIPE INLET
INV 820.70(E) 15" | 59 EX BOX CULVERT
FL 820.67(S) 5' (APPROX.) |
| 57 EX PIPE OUTLET
INV 820.68(W) 15" | 61 EX PIPE OUTLET
INV 821.42±(W) |
| 58 EX BOX CULVERT
FL 820.58(N) 5' (APPROX.) | |

CODED NOTES

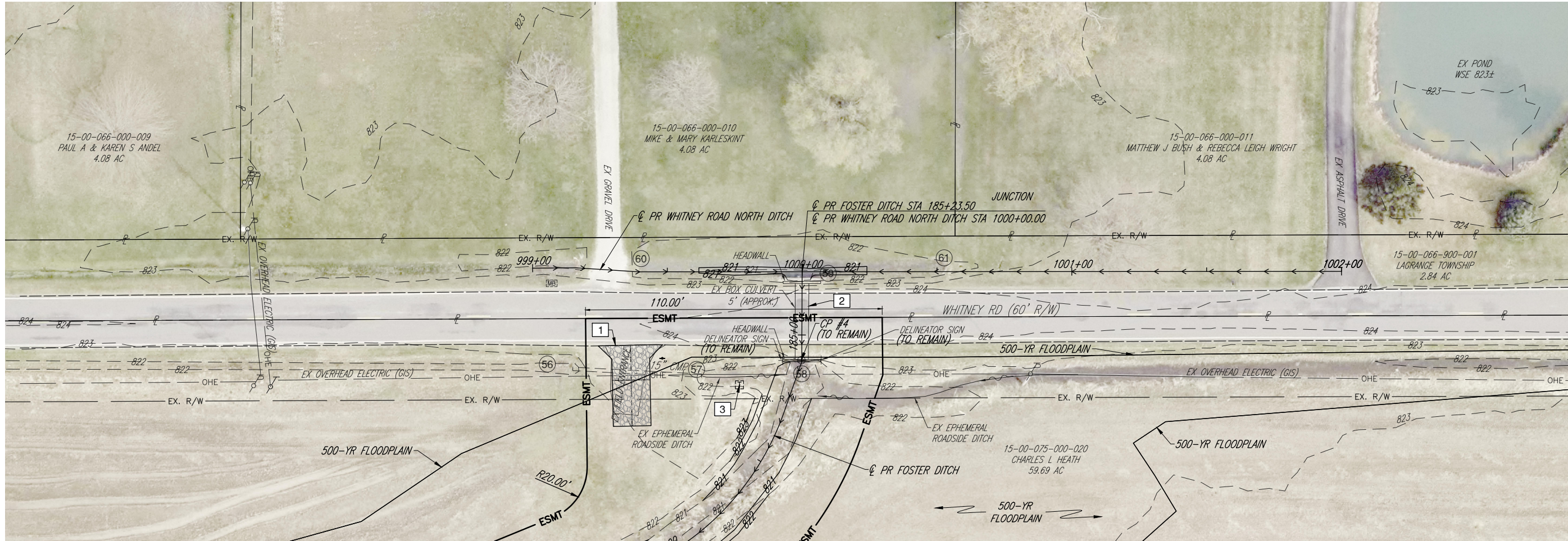
- # INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- PR ACCESS DRIVE. SEE SHEET 34 FOR DETAILS.
 - EX CONDUIT TO REMAIN. DO NOT DISTURB.
 - EX BOX CULVERT & HEADWALLS TO REMAIN. DO NOT DISTURB.
 - TELEPHONE PEDESTAL TO REMAIN. DO NOT DISTURB.



CLEAN & REMOVE SEDIMENT AND DEBRIS FROM CULVERT BY HAND-DIGGING OR OTHER METHOD ACCEPTABLE TO COUNTY ENGINEER. RESTORE ORIGINAL CULVERT OPENING WIDTH. DO NOT OVER EXCAVATE, NOR DAMAGE EXISTING CULVERT OR ITS FOOTING.

NOTE:
PROPOSED PROFILE SLOPES
PROJECT THROUGH EXISTING GRADE
SEE PROPOSED CROSS SECTIONS

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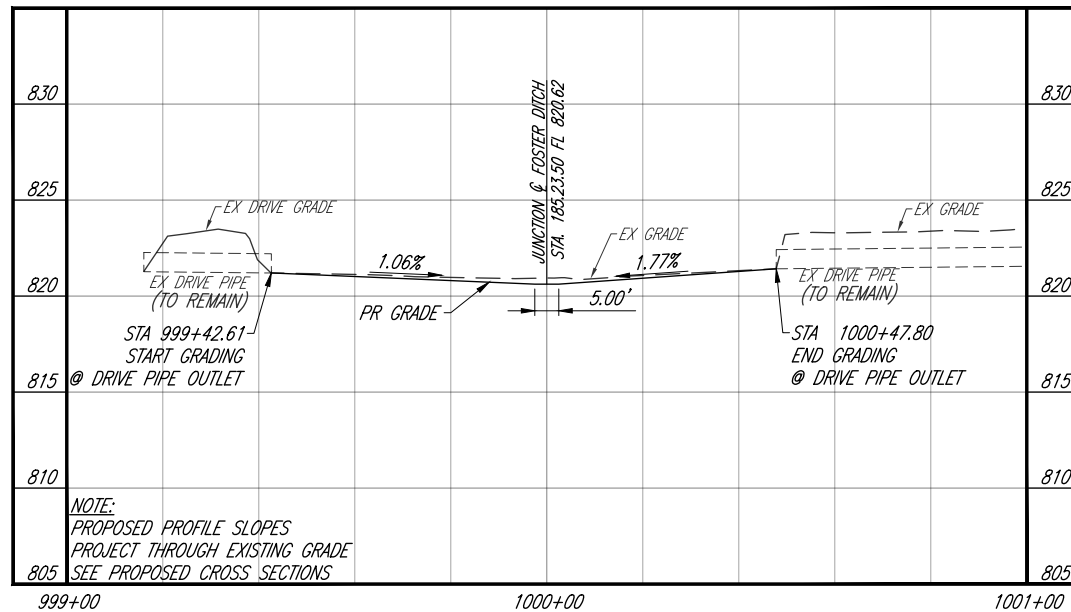
WHITNEY ROAD NORTH DITCH

STRUCTURE DATA

56 EX PIPE INLET INV 820.70(E) 15"	59 EX BOX CULVERT FL 820.67(S) 5' (APPROX.)
57 EX PIPE OUTLET INV 820.68(W) 15"	60 EX PIPE OUTLET INV 821.20±(E)
58 EX BOX CULVERT FL 820.58(N) 5' (APPROX.)	61 EX PIPE OUTLET INV 821.42±(W)

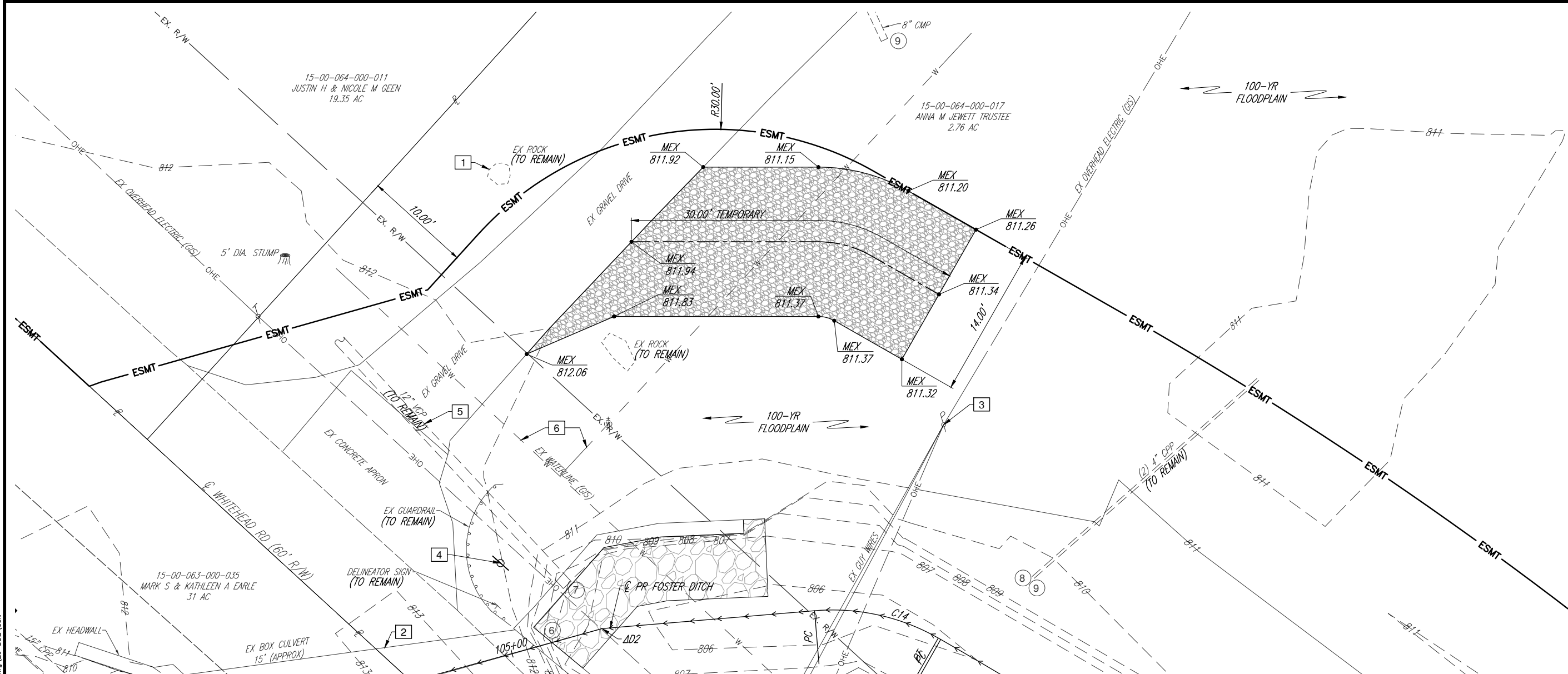
CODED NOTES

- INDICATED BY BOX AROUND CORRESPONDING NUMBER BELOW
- PR ACCESS DRIVE. SEE SHEET 34 FOR DETAILS.
 - EX BOX CULVERT & HEADWALLS TO REMAIN. DO NOT DISTURB.
 - TELEPHONE PEDESTAL TO REMAIN. DO NOT DISTURB.

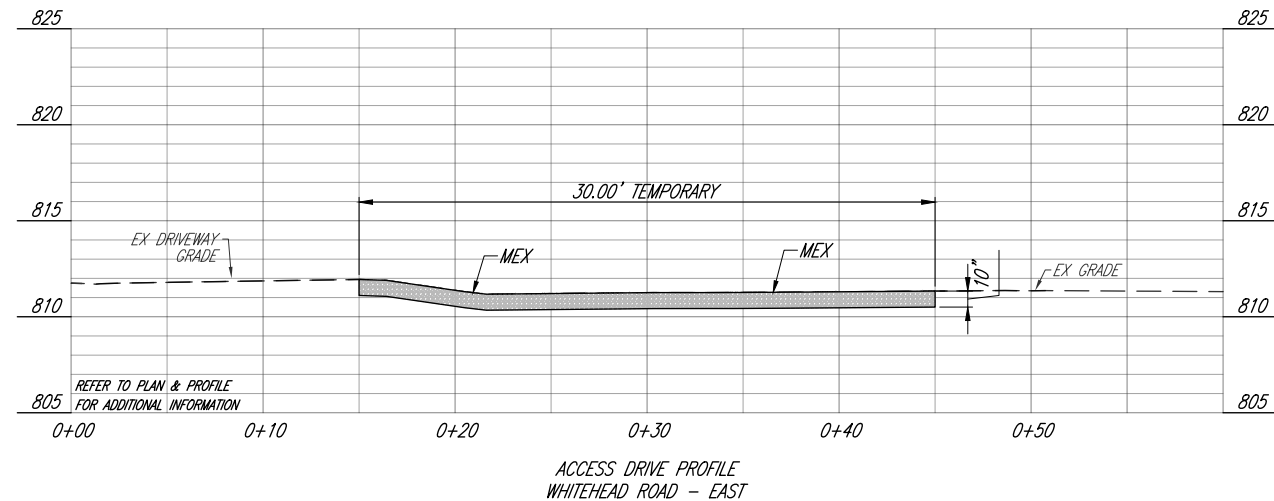


WHITNEY ROAD NORTH DITCH PROFILE

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WHITEHEAD ROAD EAST ENTRANCE



ACCESS DRIVE PROFILE
WHITEHEAD ROAD - EAST

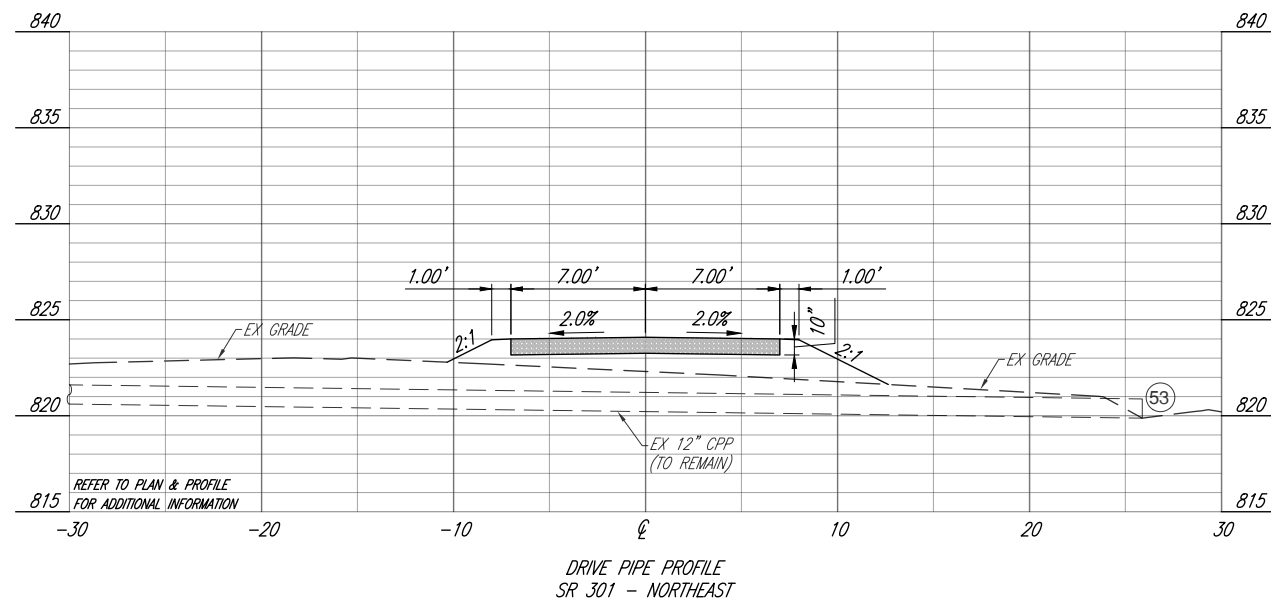
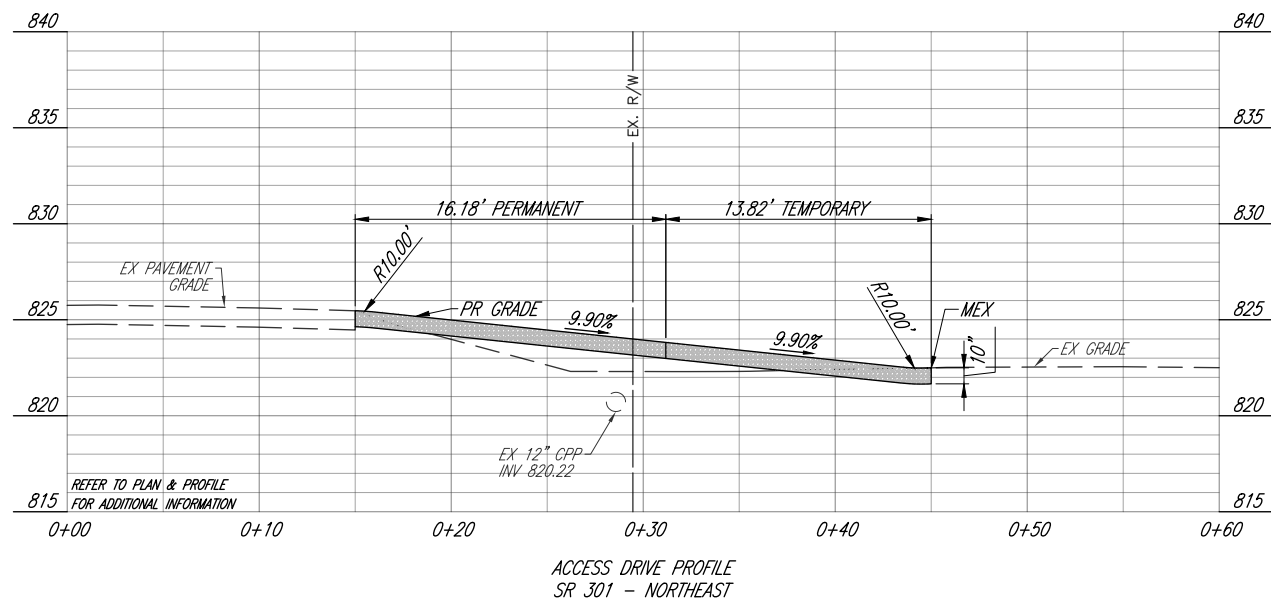
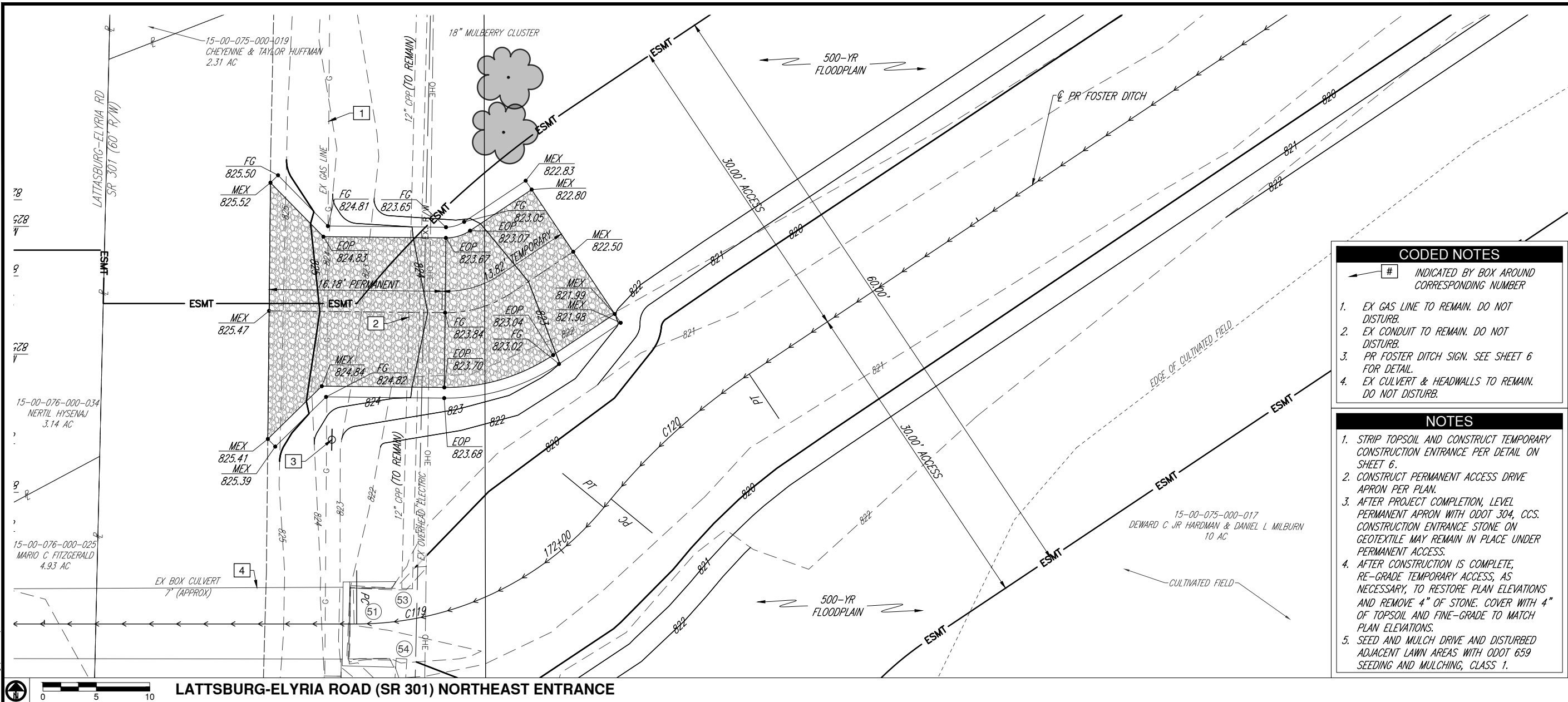
CODED NOTES

- # INDICATED BY BOX AROUND CORRESPONDING NUMBER
- EX ROCK TO REMAIN. DO NOT DISTURB.
 - EX CULVERT & HEADWALLS TO REMAIN. DO NOT DISTURB.
 - EX POWER POLE & GUY WIRES TO REMAIN. DO NOT DISTURB.
 - PR FOSTER DITCH SIGN. SEE SHEET 6 FOR DETAIL.
 - EX CONDUIT TO REMAIN. DO NOT DISTURB.
 - EX WATERLINE TO REMAIN. DO NOT DISTURB.

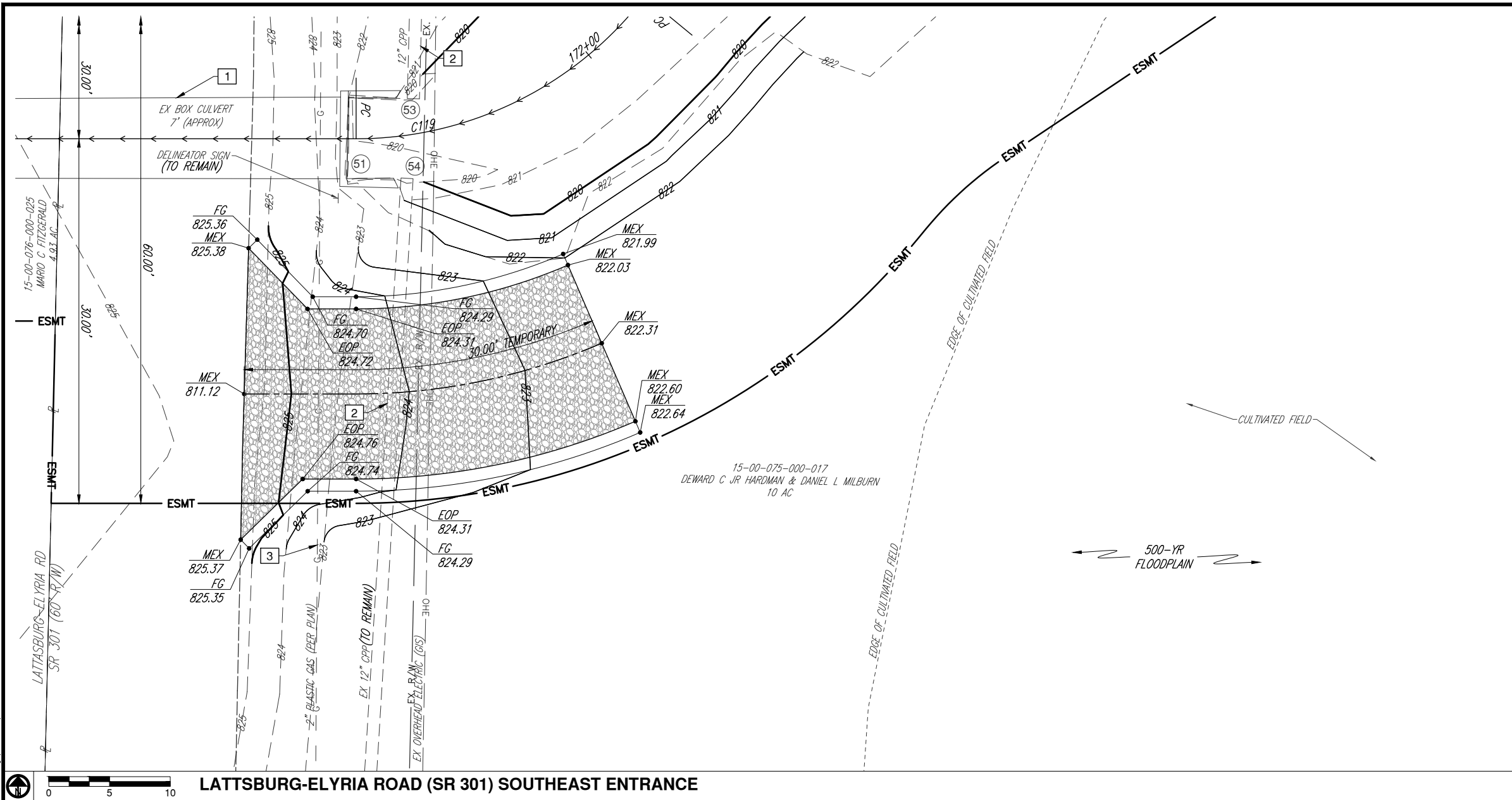
NOTES

- STRIP TOPSOIL AND CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE PER DETAIL ON SHEET 6.
- CONSTRUCT PERMANENT ACCESS DRIVE APRON PER PLAN.
- AFTER PROJECT COMPLETION, LEVEL PERMANENT APRON WITH ODOT 304, CCS. CONSTRUCTION ENTRANCE STONE ON GEOTEXTILE MAY REMAIN IN PLACE UNDER PERMANENT ACCESS.
- AFTER CONSTRUCTION IS COMPLETE, RE-GRADE TEMPORARY ACCESS, AS NECESSARY, TO RESTORE PLAN ELEVATIONS AND REMOVE 4" OF STONE. COVER WITH 4" OF TOPSOIL AND FINE-GRADE TO MATCH PLAN ELEVATIONS.
- SEED AND MULCH DRIVE AND DISTURBED ADJACENT LAWN AREAS WITH ODOT 659 SEEDING AND MULCHING, CLASS 1.

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LATTSBURG-ELYRIA ROAD (SR 301) SOUTHEAST ENTRANCE

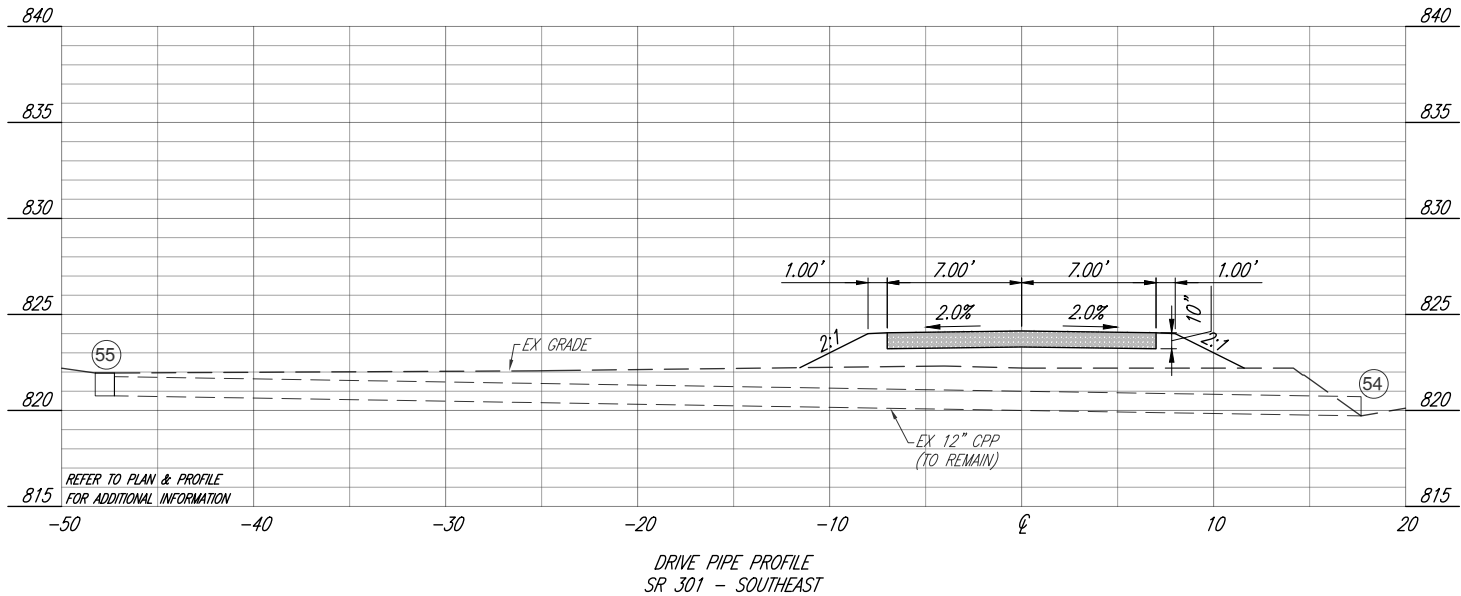
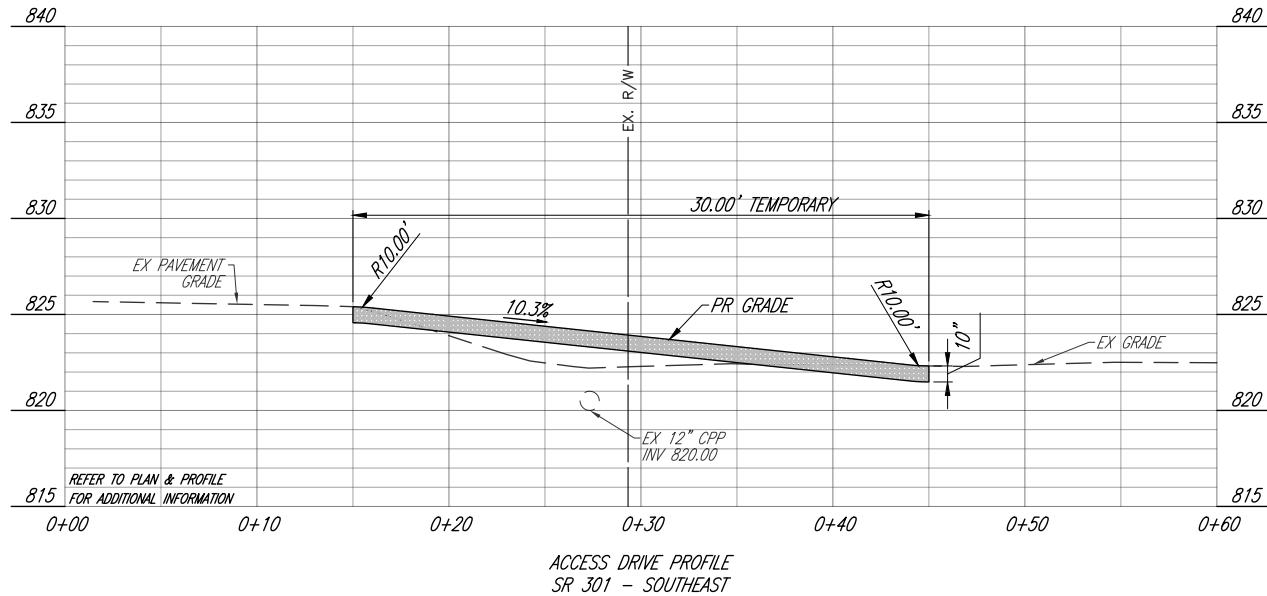
CODED NOTES

INDICATED BY BOX AROUND CORRESPONDING NUMBER

- EX CULVERT & HEADWALLS TO REMAIN. DO NOT DISTURB.
- EX CONDUIT TO REMAIN. DO NOT DISTURB.
- EX GAS LINE TO REMAIN. DO NOT DISTURB.

NOTES

- STRIP TOPSOIL AND CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE PER DETAIL ON SHEET 6.
- CONSTRUCT PERMANENT ACCESS DRIVE APRON PER PLAN.
- AFTER PROJECT COMPLETION, LEVEL PERMANENT APRON WITH ODOT 304, CCS. CONSTRUCTION ENTRANCE STONE ON GEOTEXTILE MAY REMAIN IN PLACE UNDER PERMANENT ACCESS.
- AFTER CONSTRUCTION IS COMPLETE, RE-GRADE TEMPORARY ACCESS, AS NECESSARY, TO RESTORE PLAN ELEVATIONS AND REMOVE 4" OF TOPSOIL AND FINE-GRADE TO MATCH PLAN ELEVATIONS.
- SEED AND MULCH DRIVE AND DISTURBED ADJACENT LAWN AREAS WITH ODOT 659 SEEDING AND MULCHING, CLASS 1.



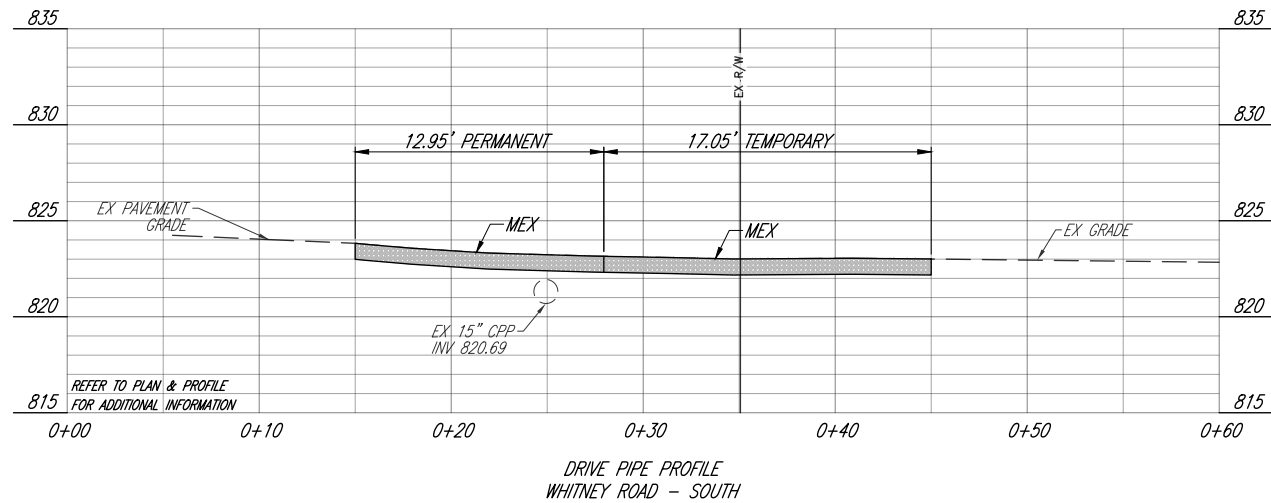
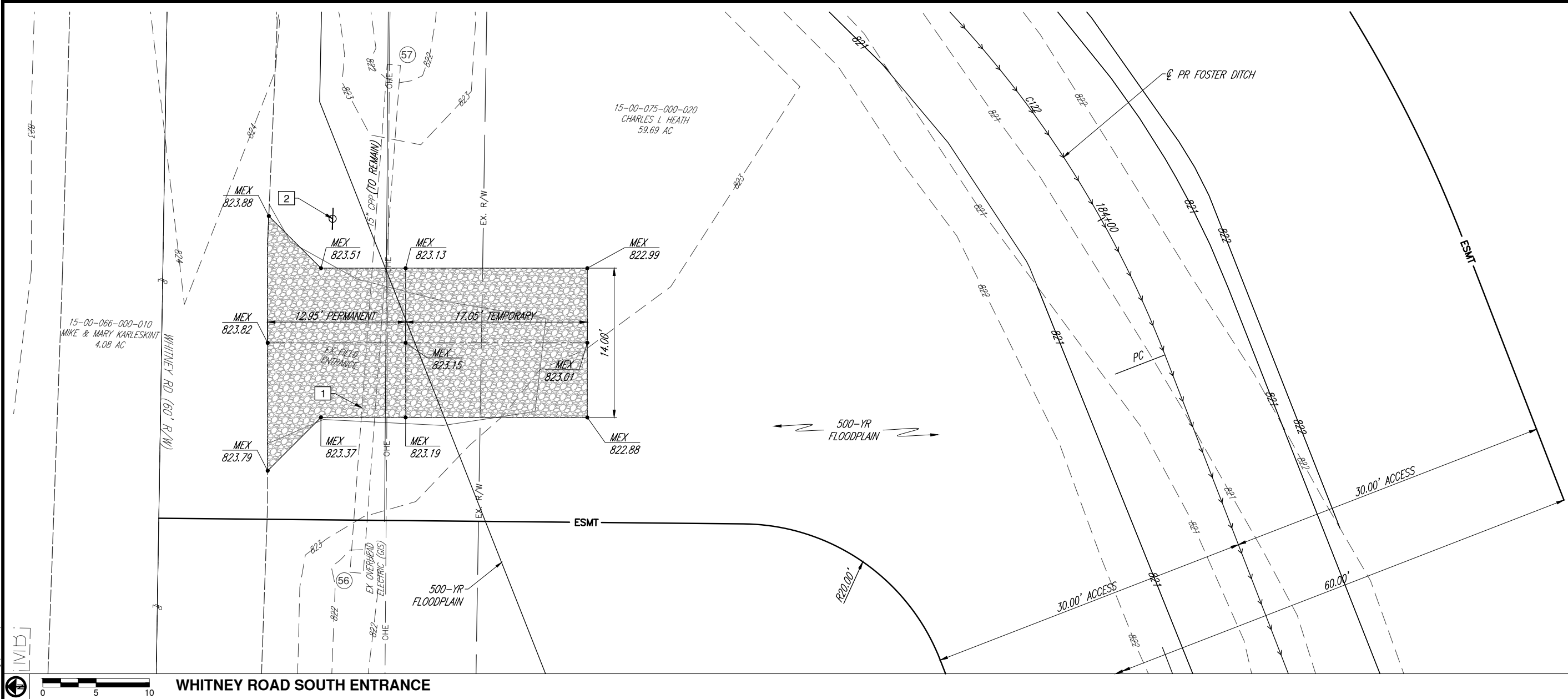
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GRADING DETAILS		
SHEET NUMBER		
33	52	

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CODED NOTES

INDICATED BY BOX AROUND CORRESPONDING NUMBER

- EX CONDUIT TO REMAIN. DO NOT DISTURB.
- PR FOSTER DITCH SIGN. SEE SHEET 6 FOR DETAIL.

NOTES

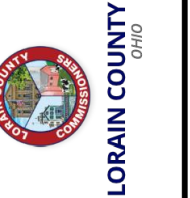
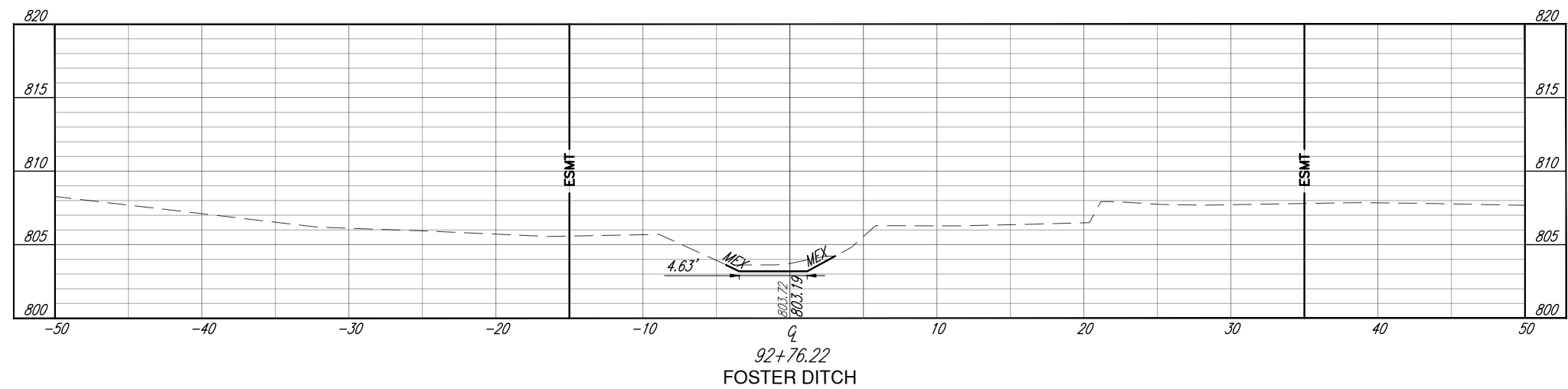
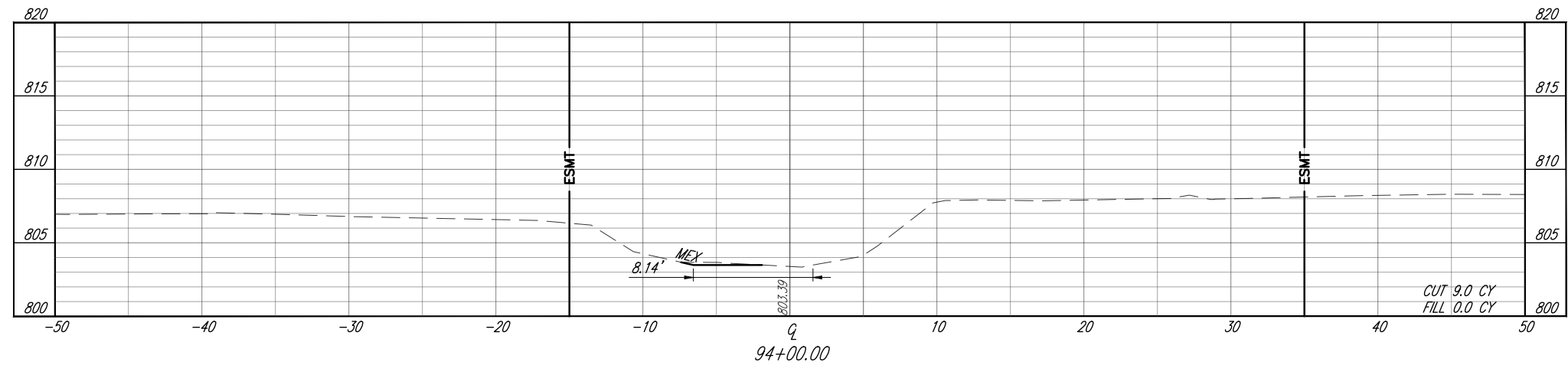
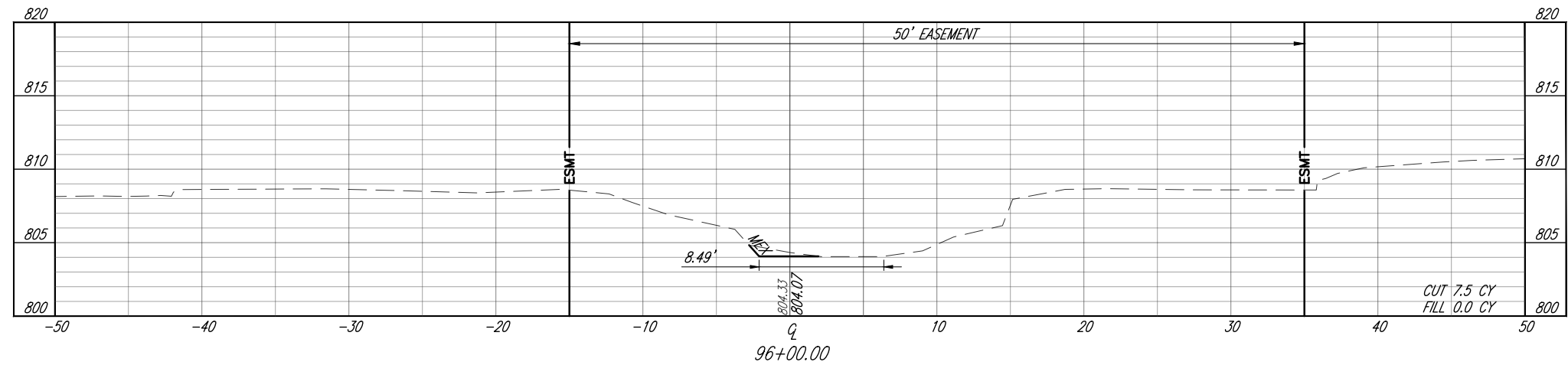
- STRIP TOPSOIL AND CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE PER DETAIL ON SHEET 6.
- CONSTRUCT PERMANENT ACCESS DRIVE APRON PER PLAN.
- AFTER PROJECT COMPLETION, LEVEL PERMANENT APRON WITH ODOT 304, CCS. CONSTRUCTION ENTRANCE STONE ON GEOTEXTILE MAY REMAIN IN PLACE UNDER PERMANENT ACCESS.
- AFTER CONSTRUCTION IS COMPLETE, RE-GRADE TEMPORARY ACCESS, AS NECESSARY, TO RESTORE PLAN ELEVATIONS AND REMOVE 4" OF STONE. COVER WITH 4" OF TOPSOIL AND FINE-GRADE TO MATCH PLAN ELEVATIONS.
- SEED AND MULCH DRIVE AND DISTURBED ADJACENT LAWN AREAS WITH ODOT 659 SEEDING AND MULCHING, CLASS 1.

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FOSTER DITCH RESTORATION
LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

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REVISION	DATE	
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SHEET NAME		
GRADING DETAILS		
SHEET NUMBER		
34	52	



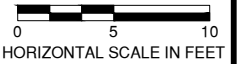
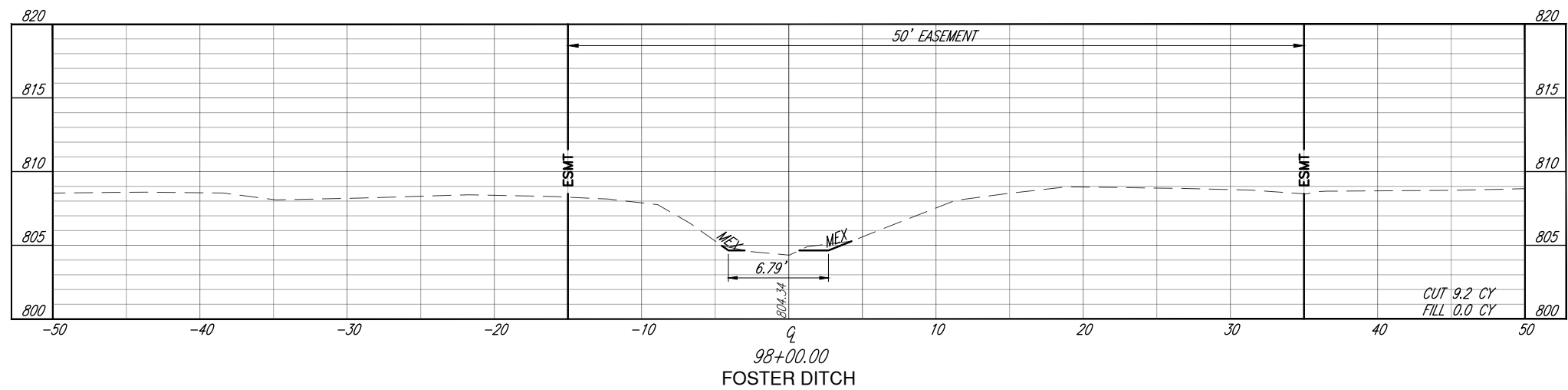
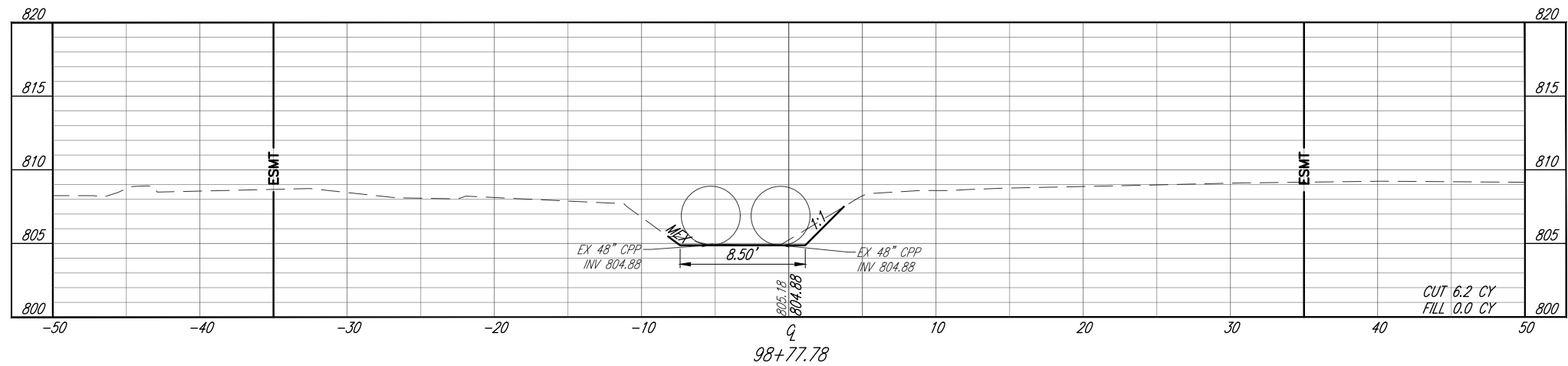
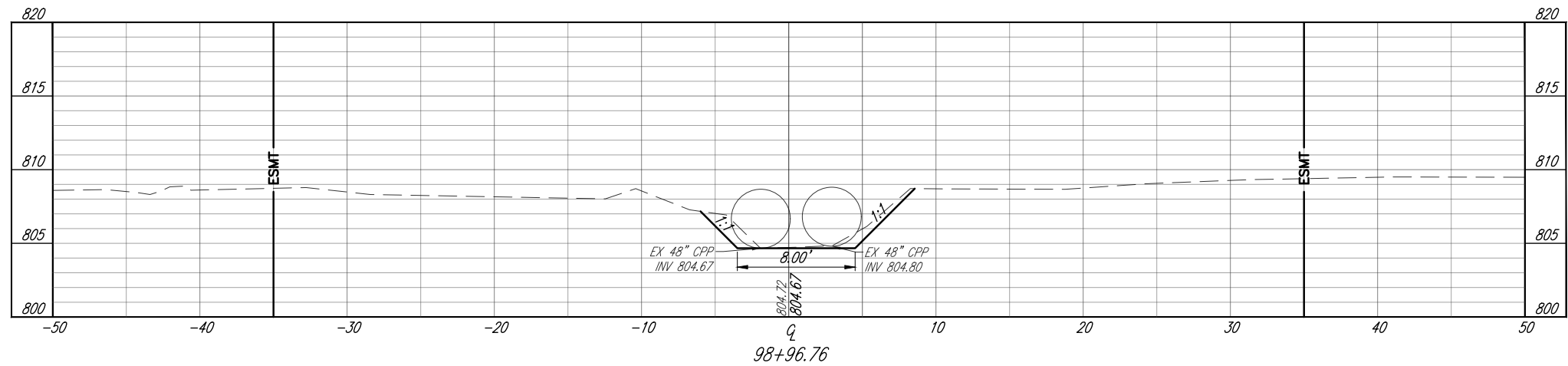
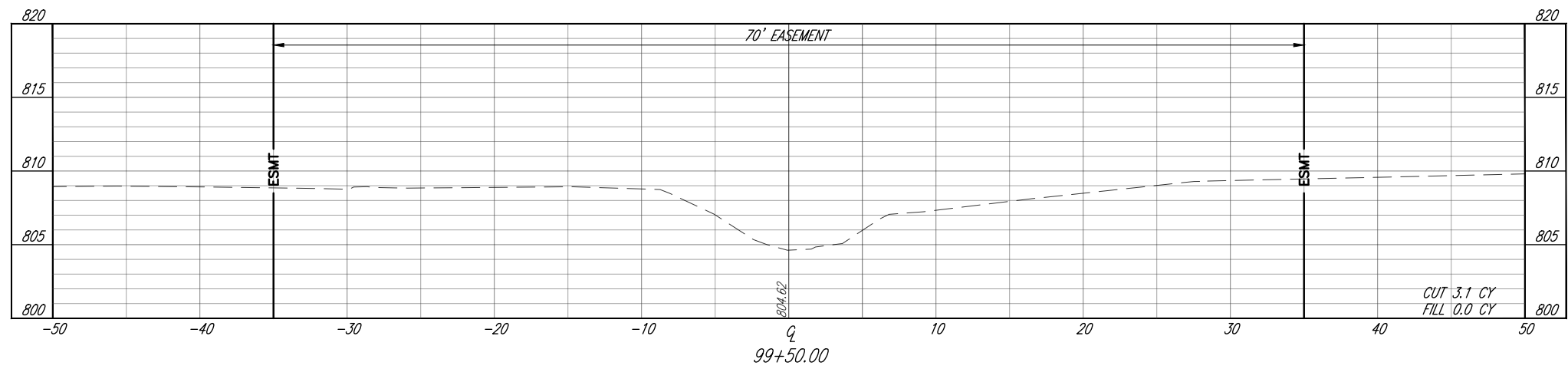
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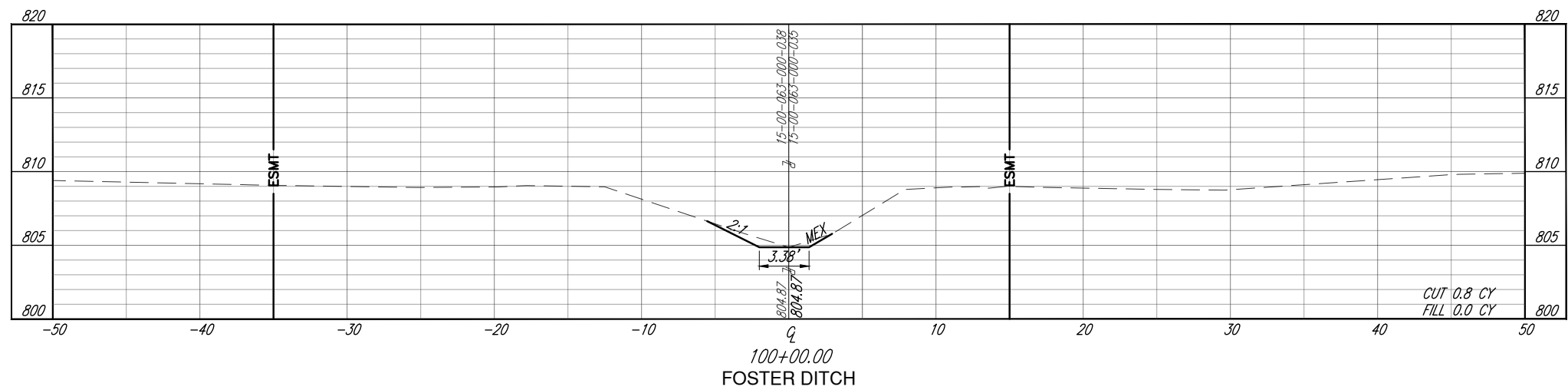
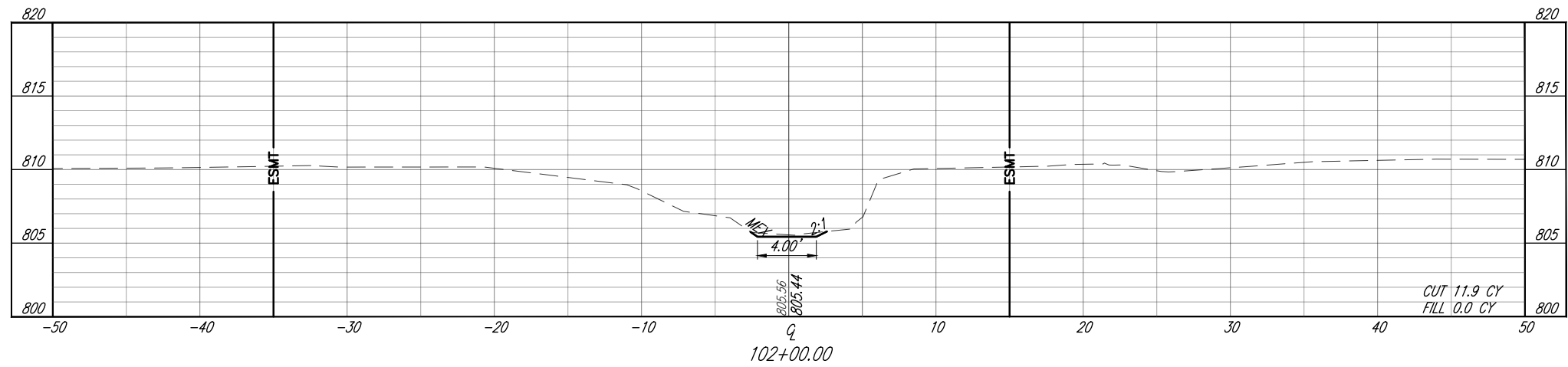
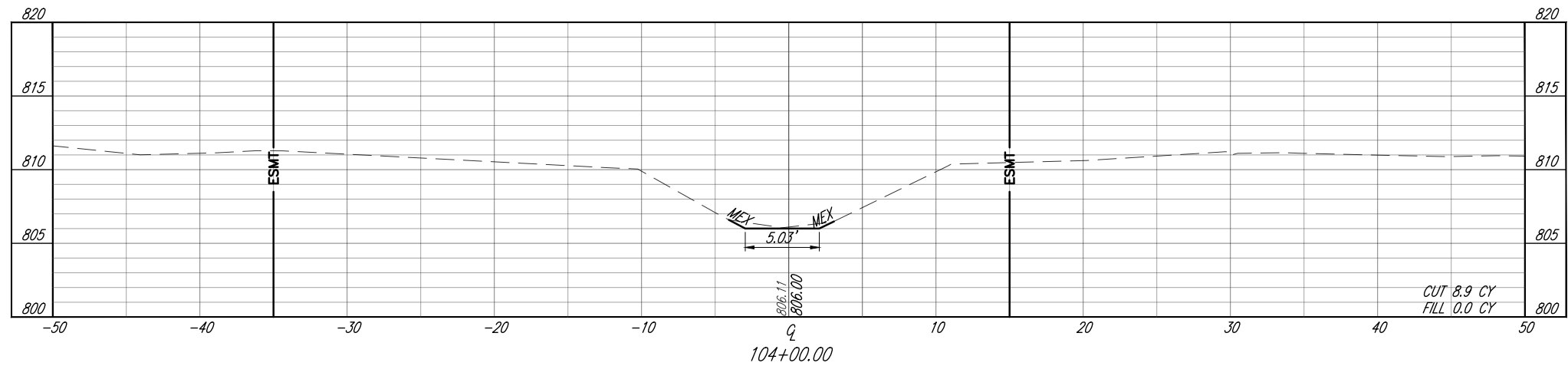
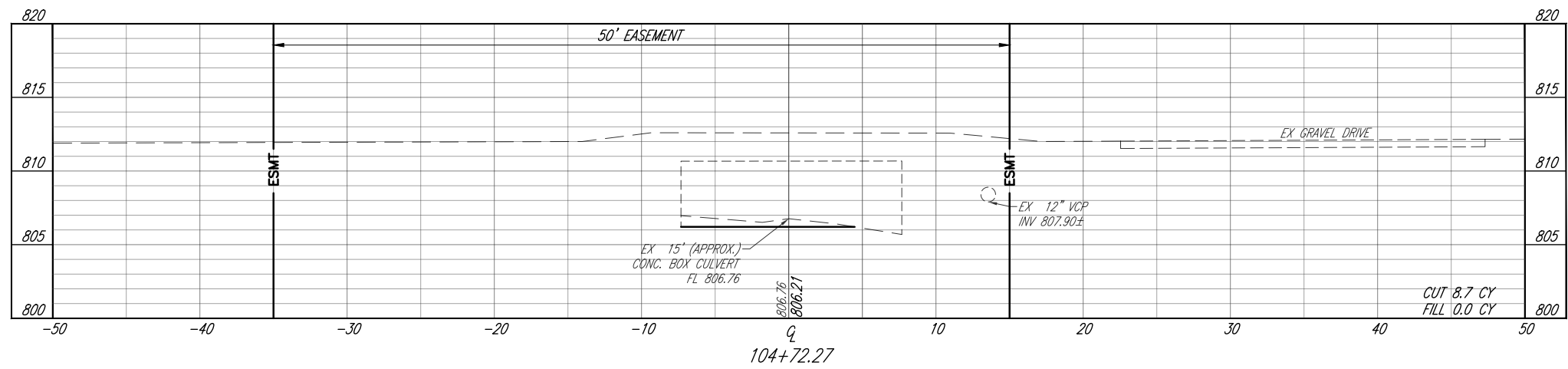
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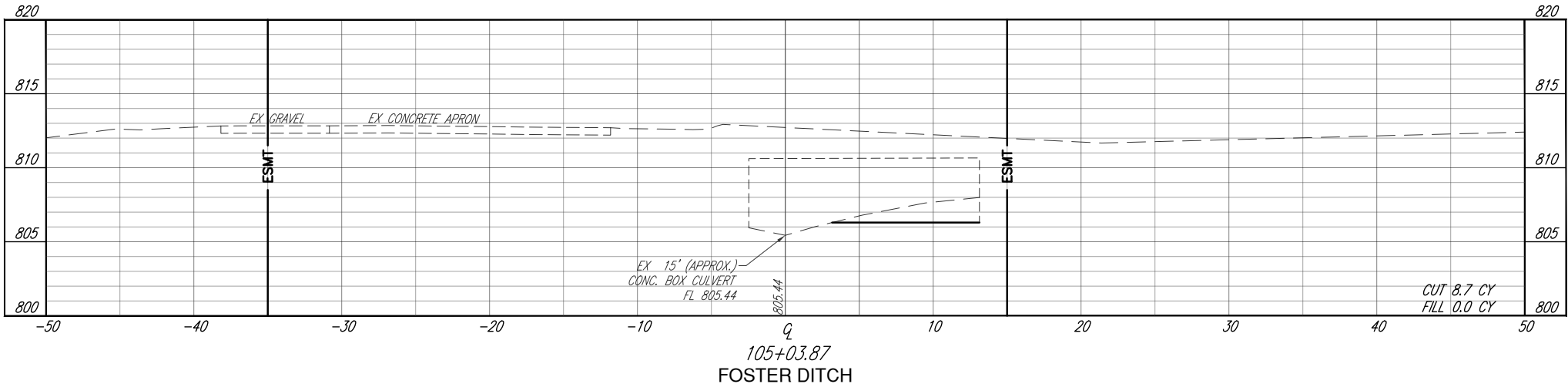
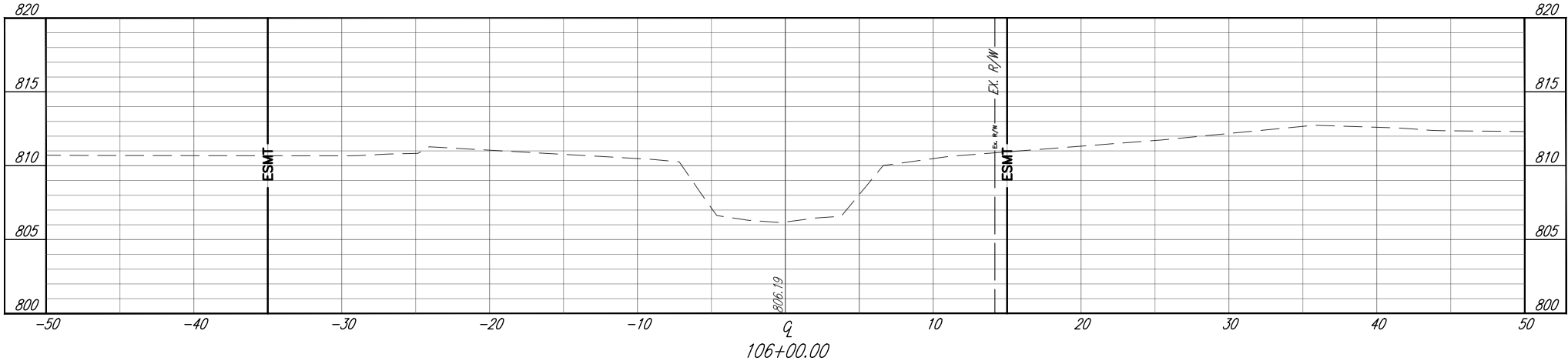
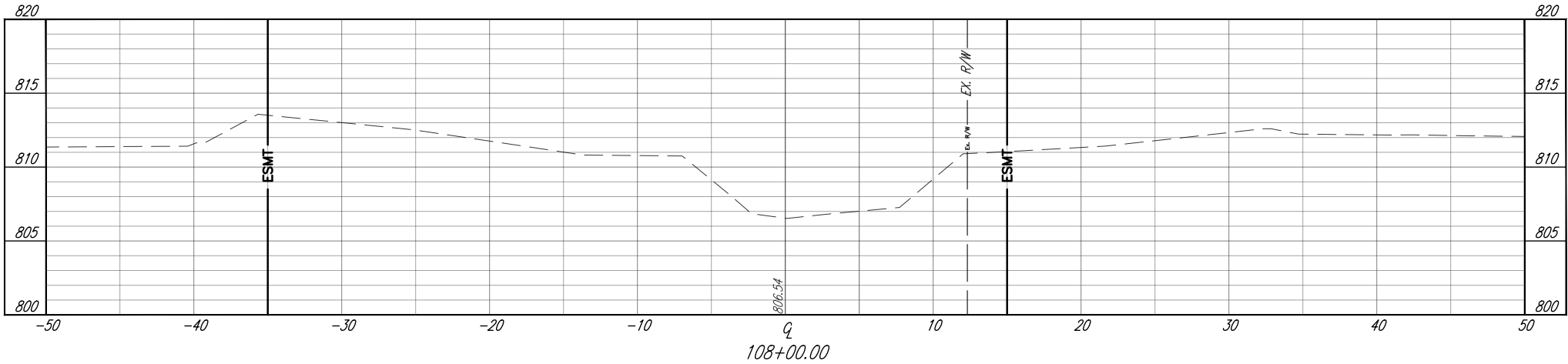
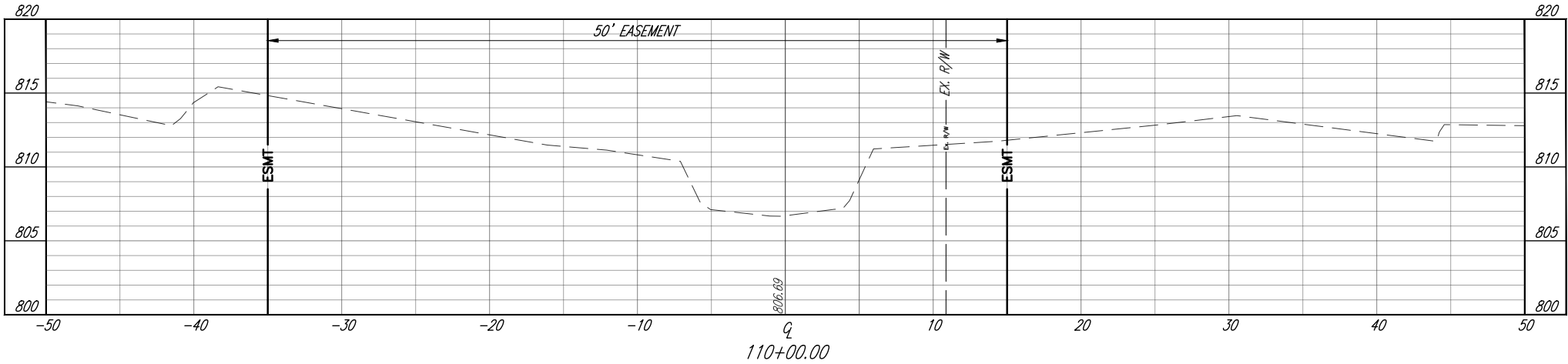
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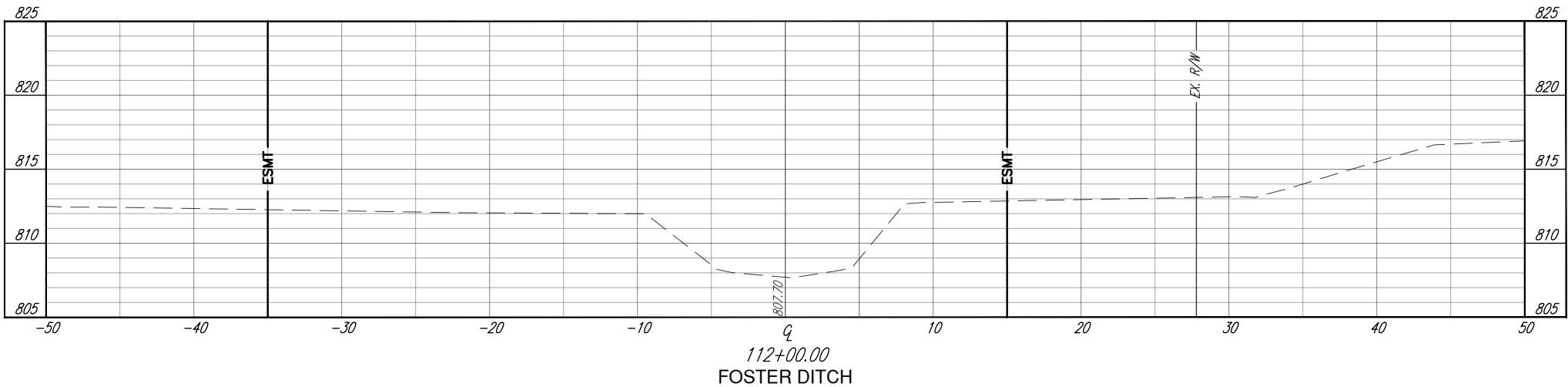
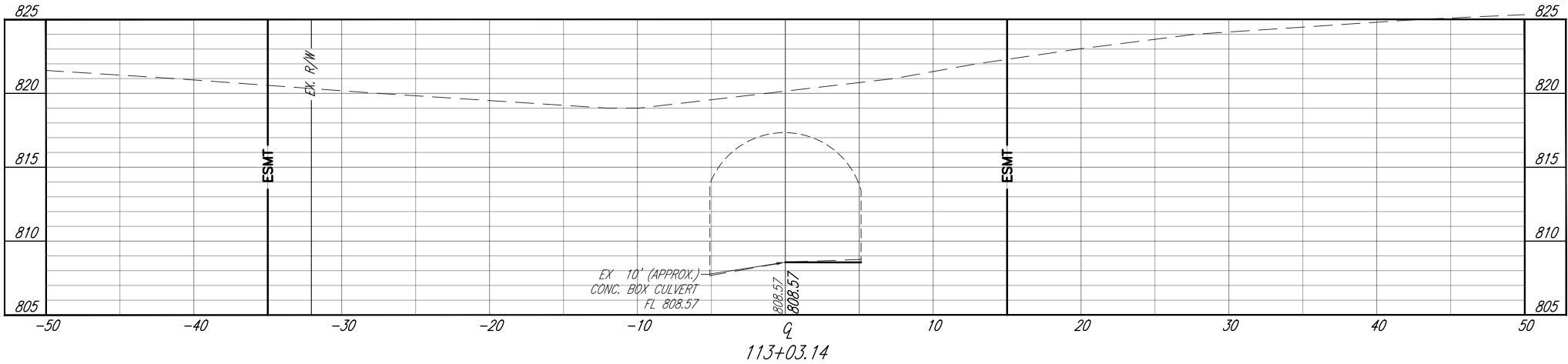
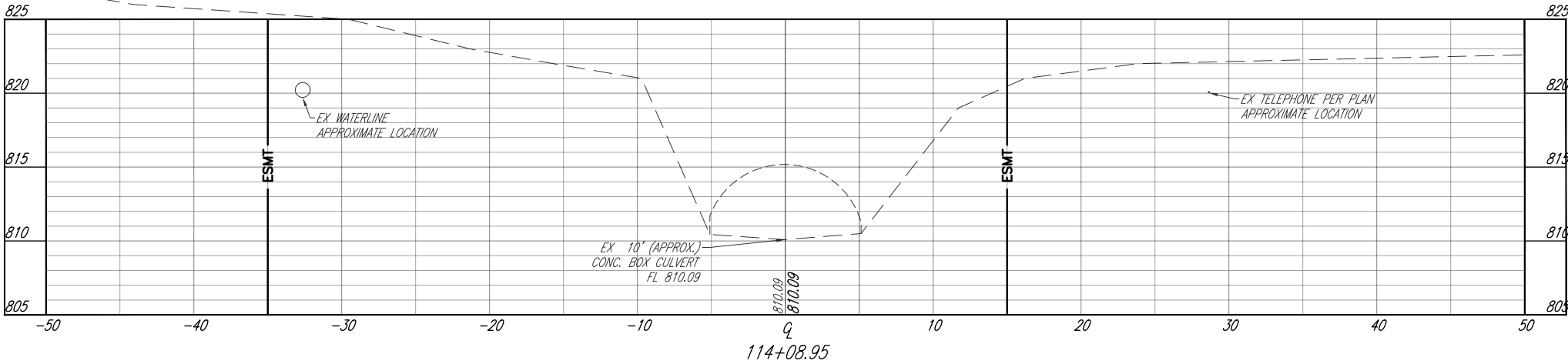
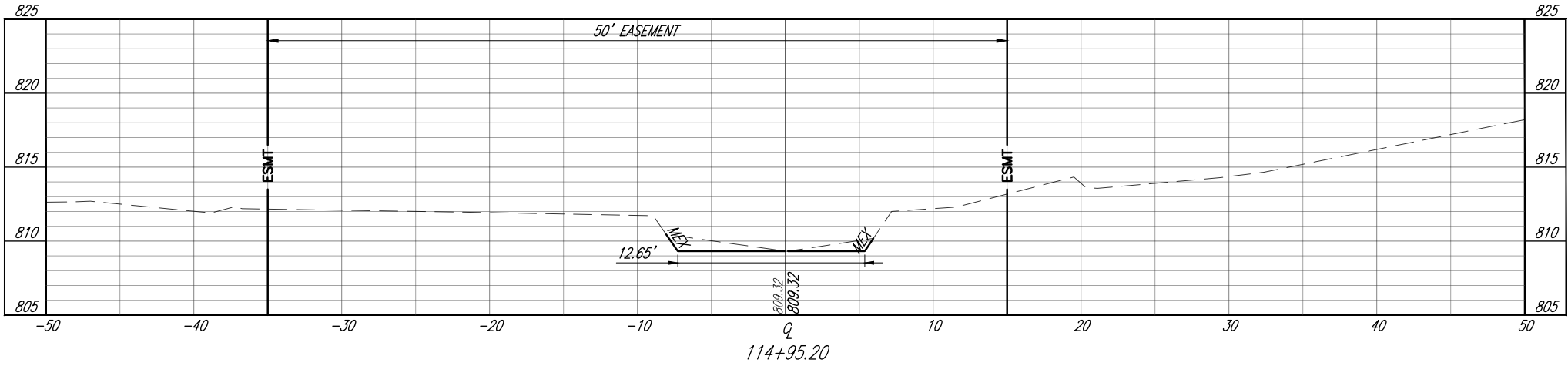
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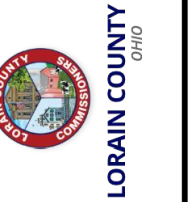
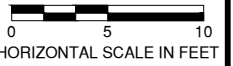
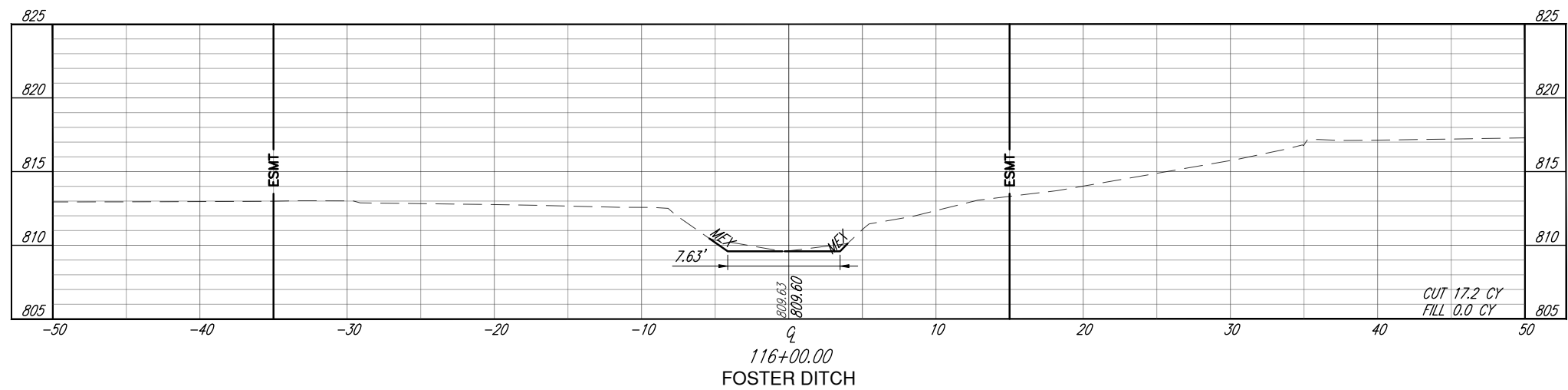
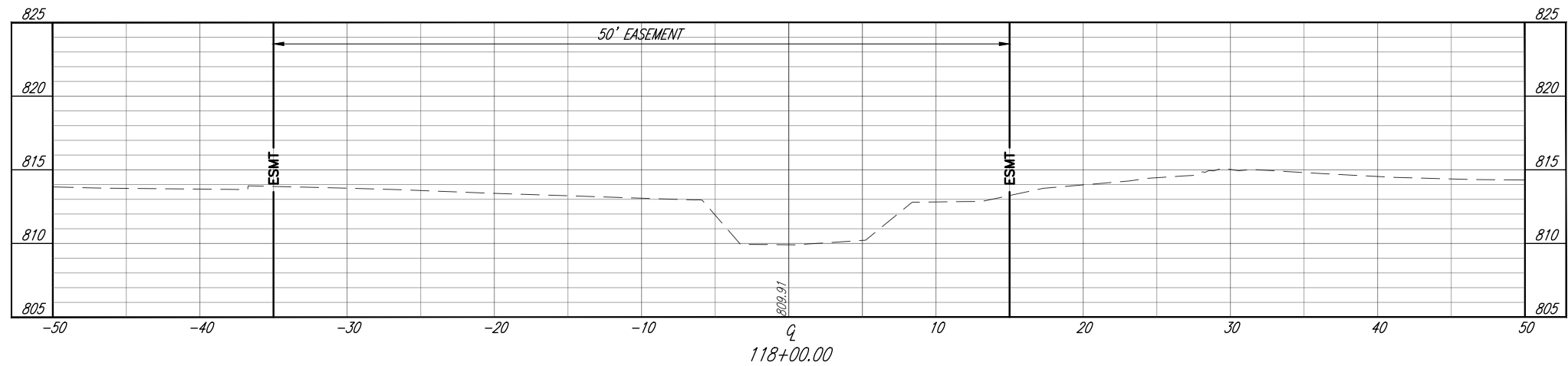
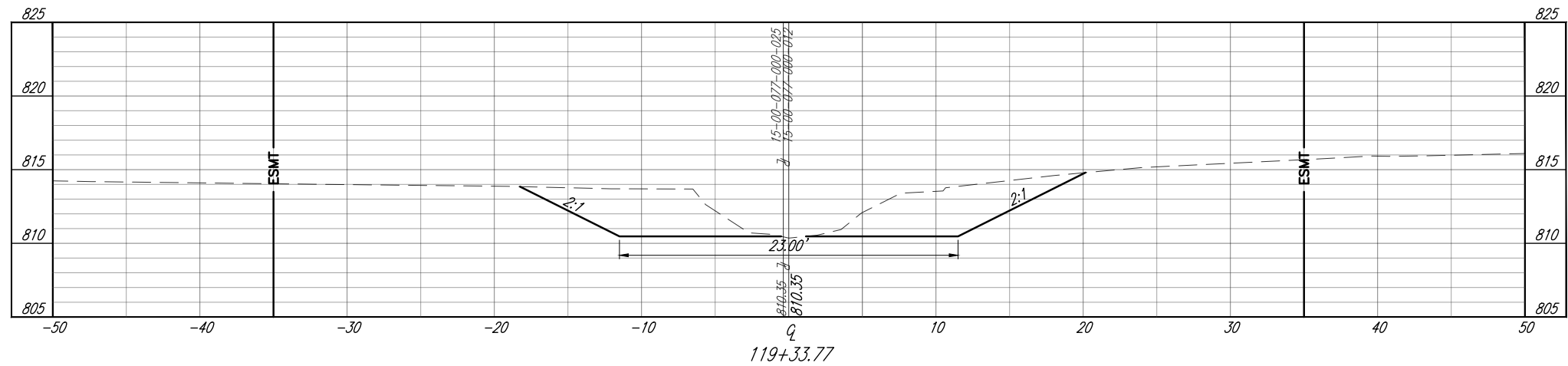
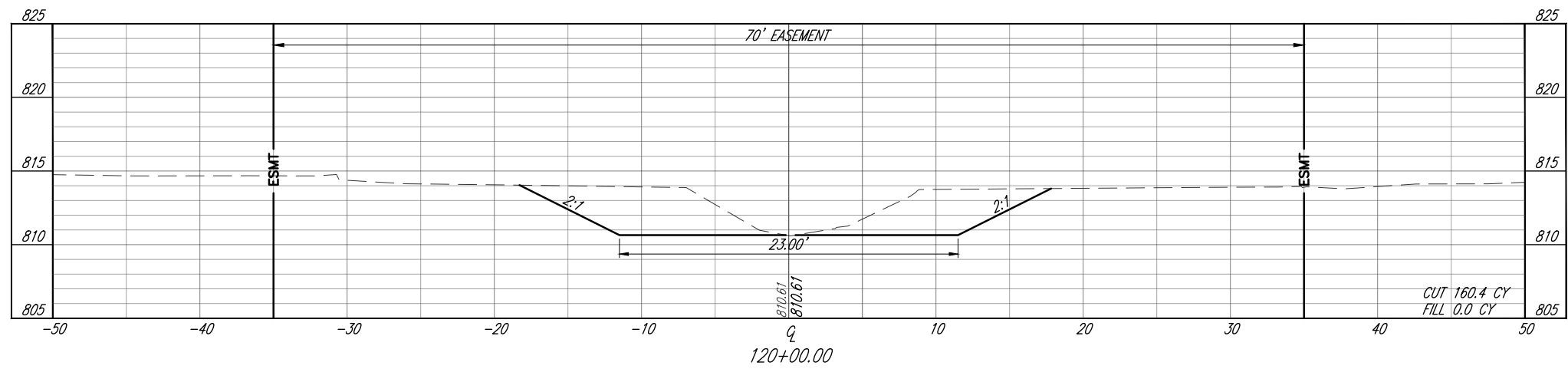
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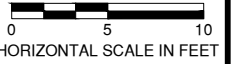
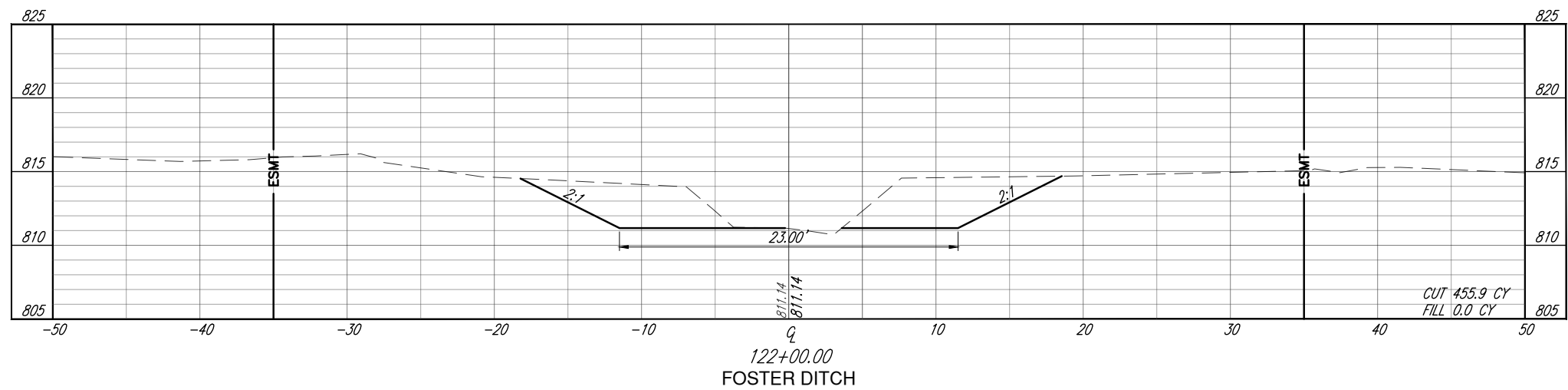
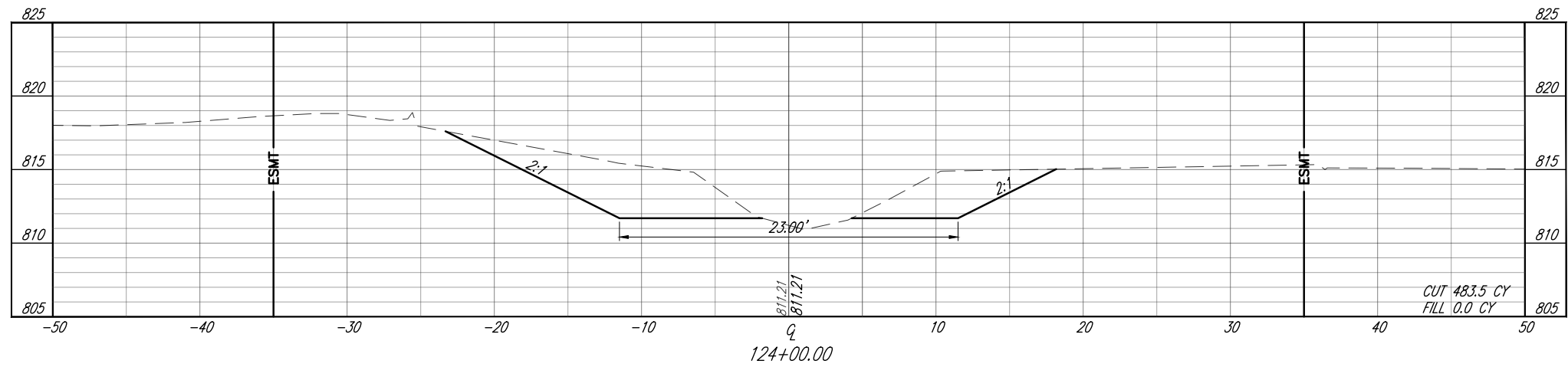
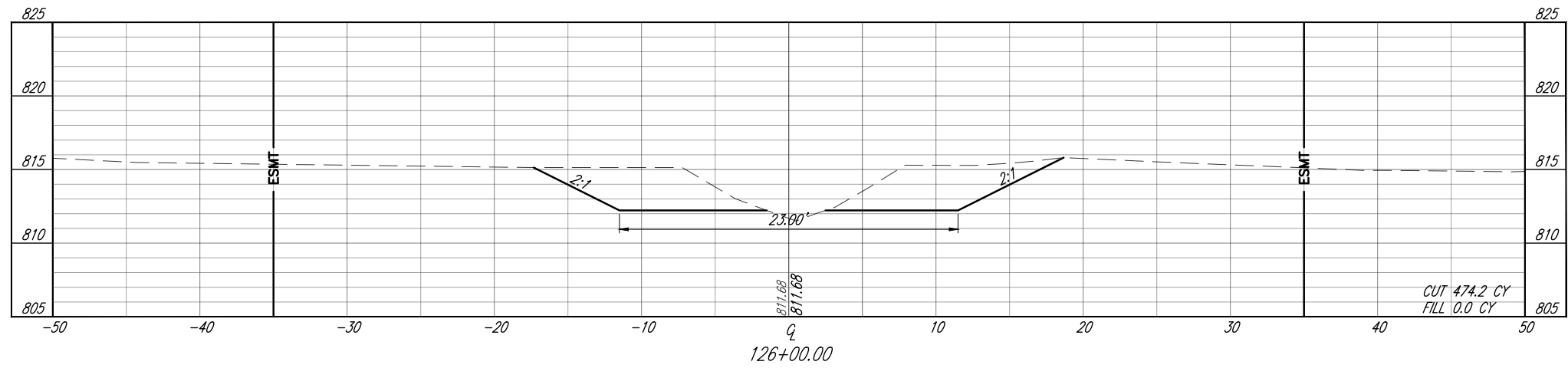
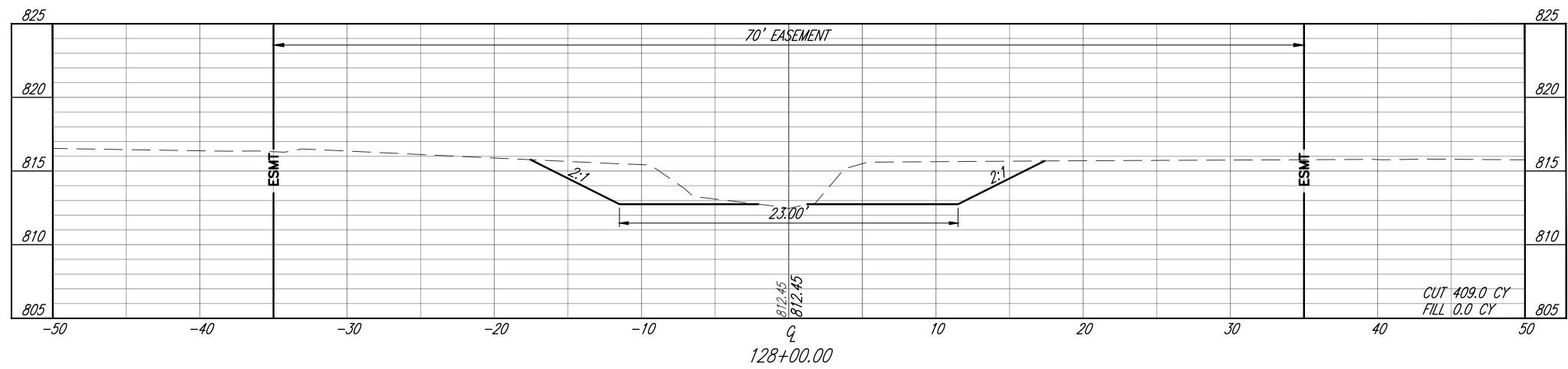
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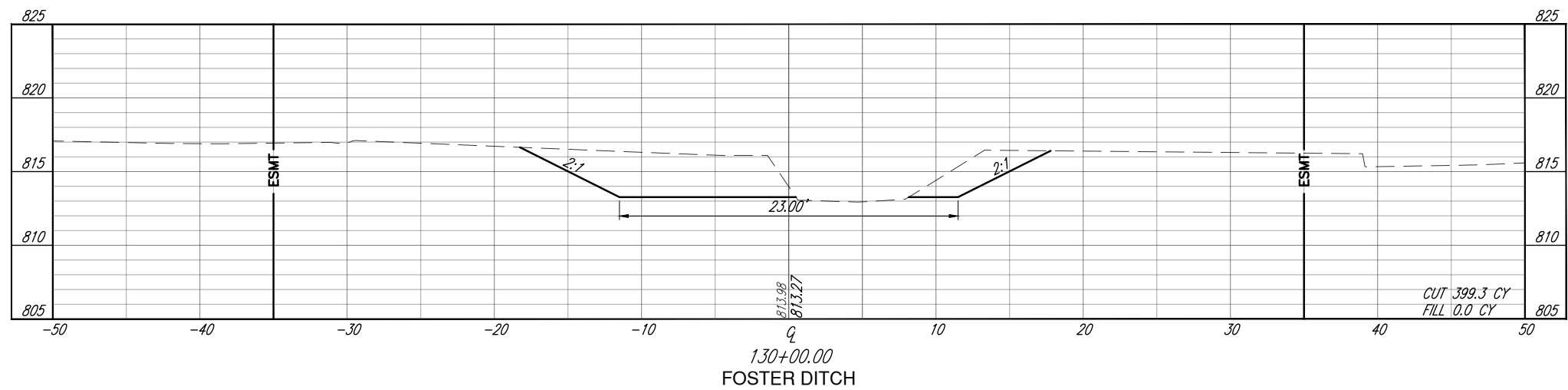
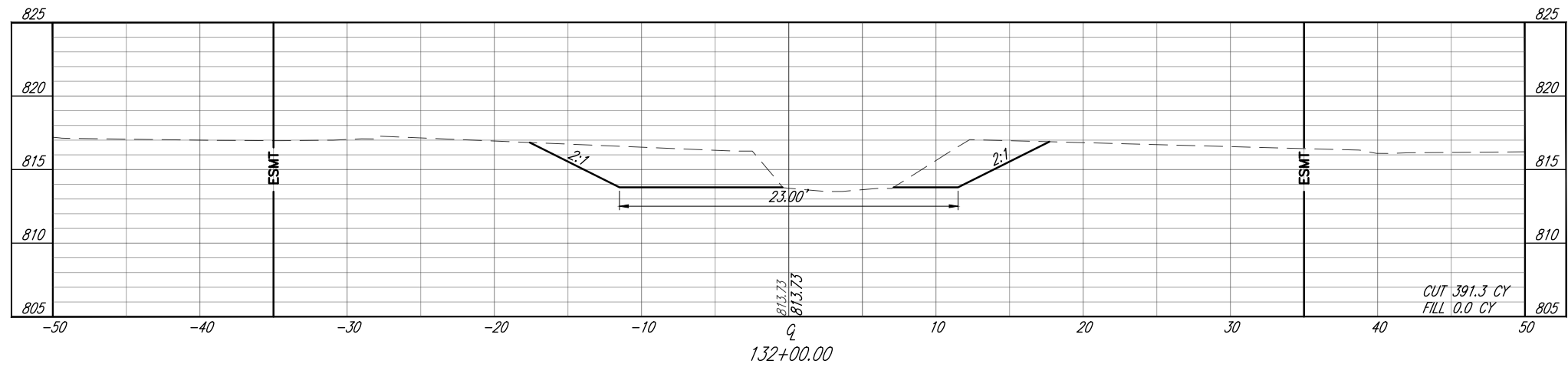
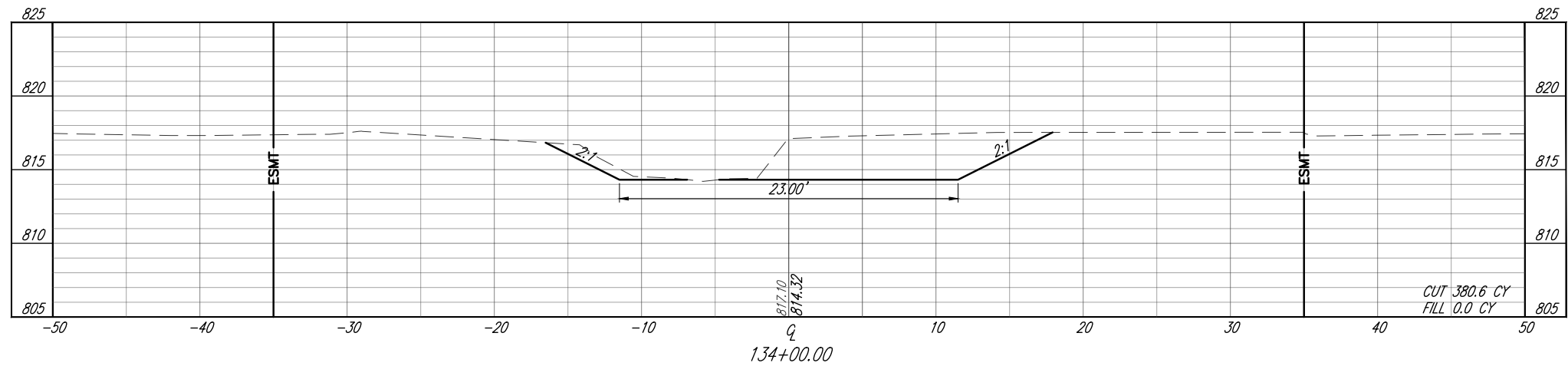
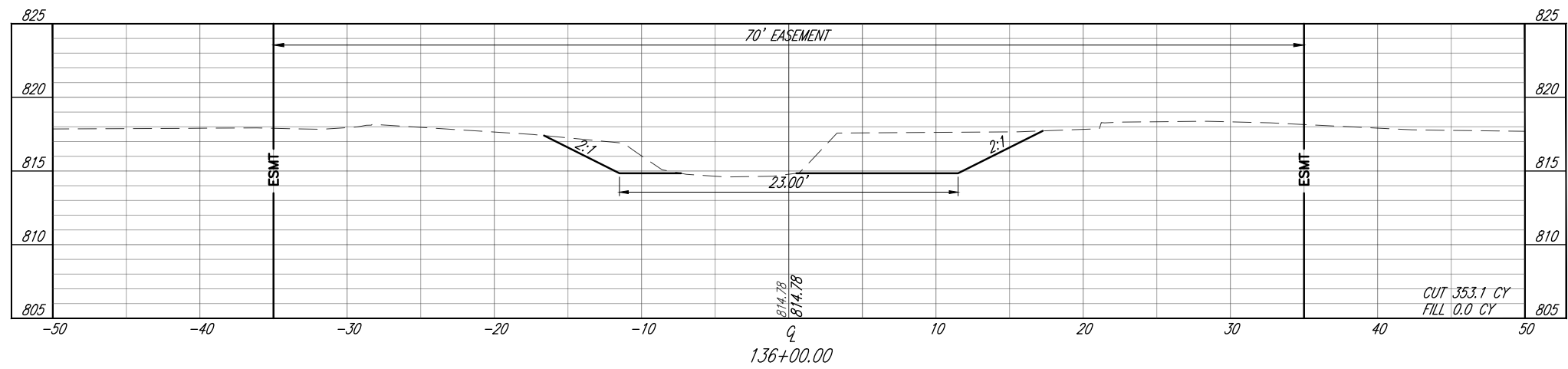
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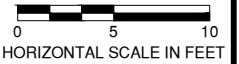
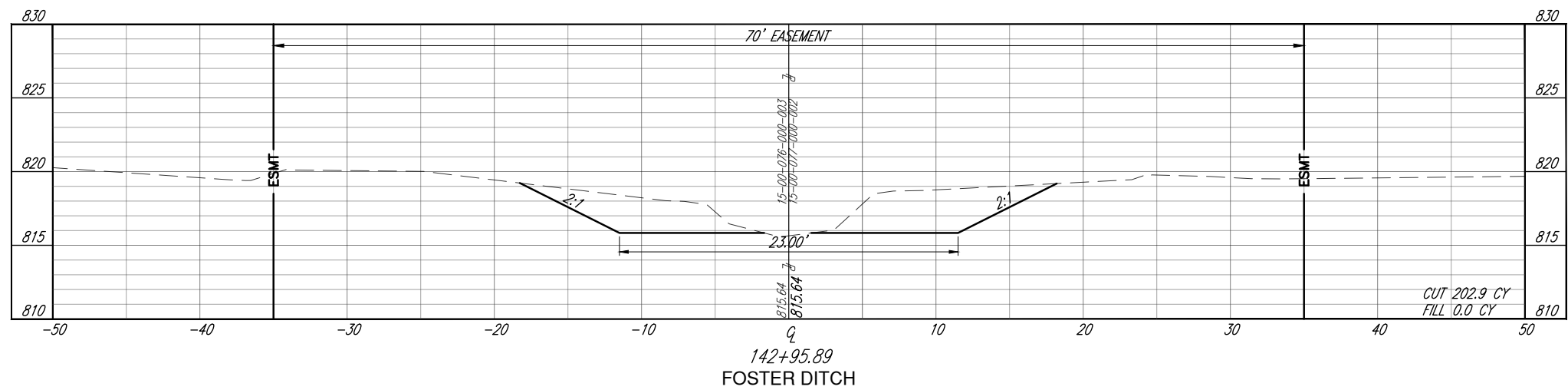
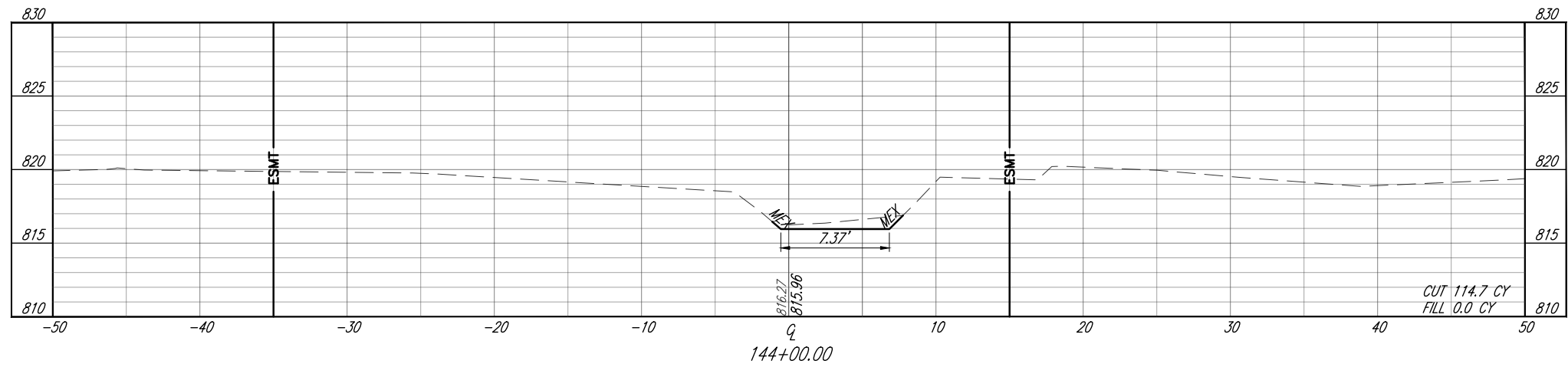
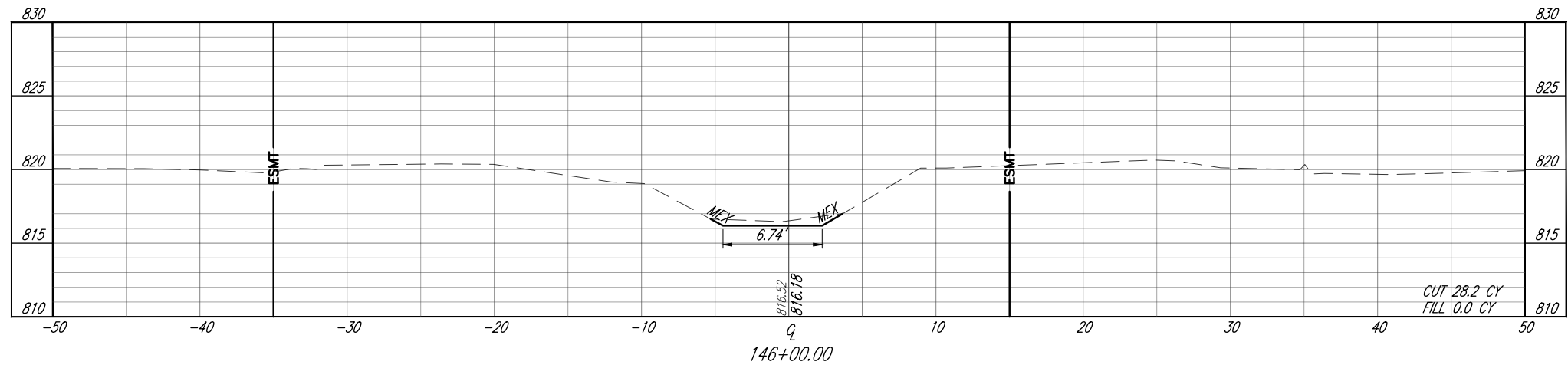
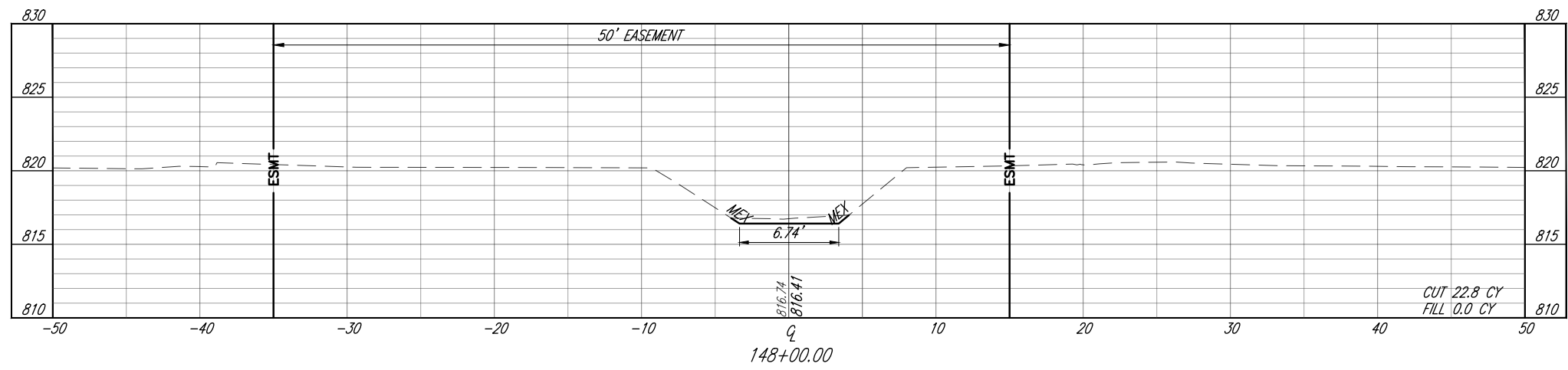
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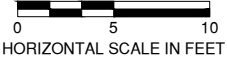
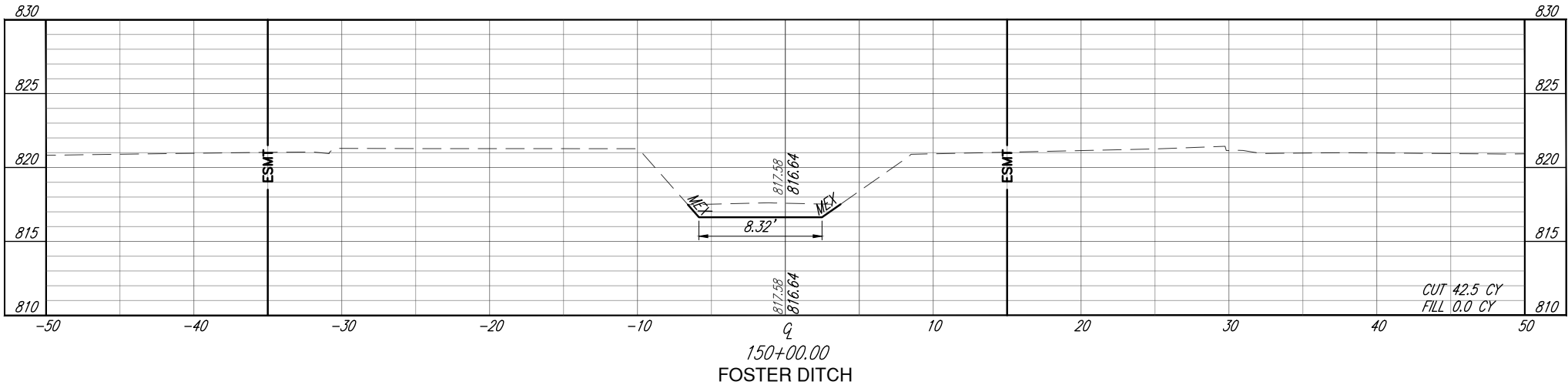
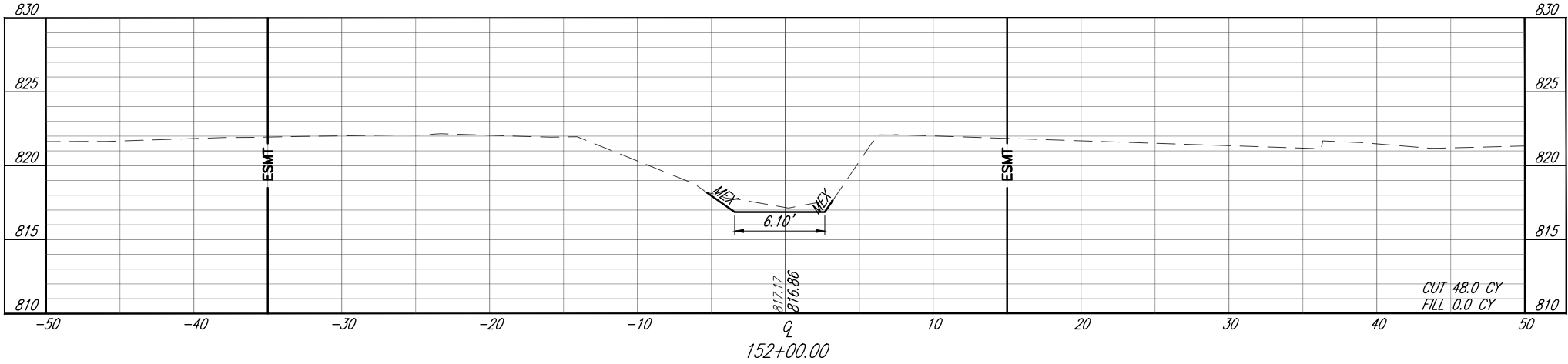
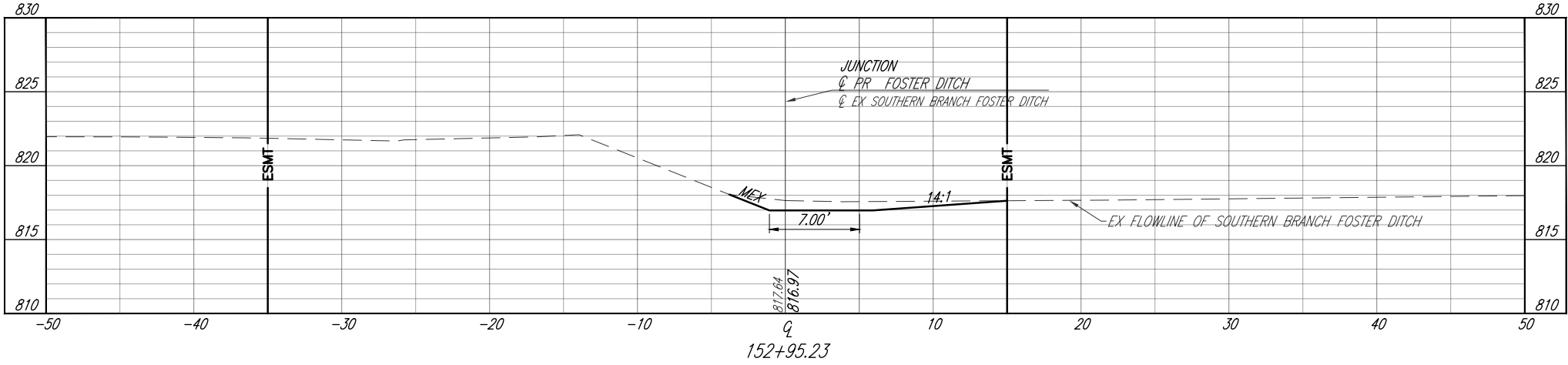
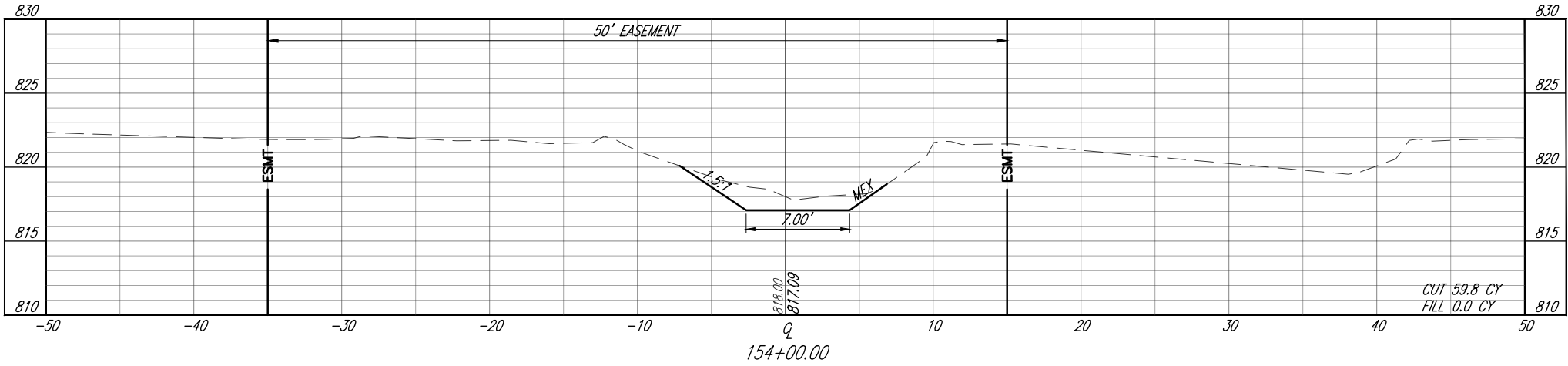
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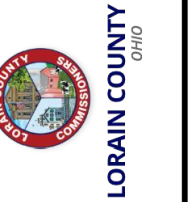
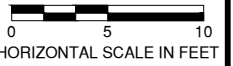
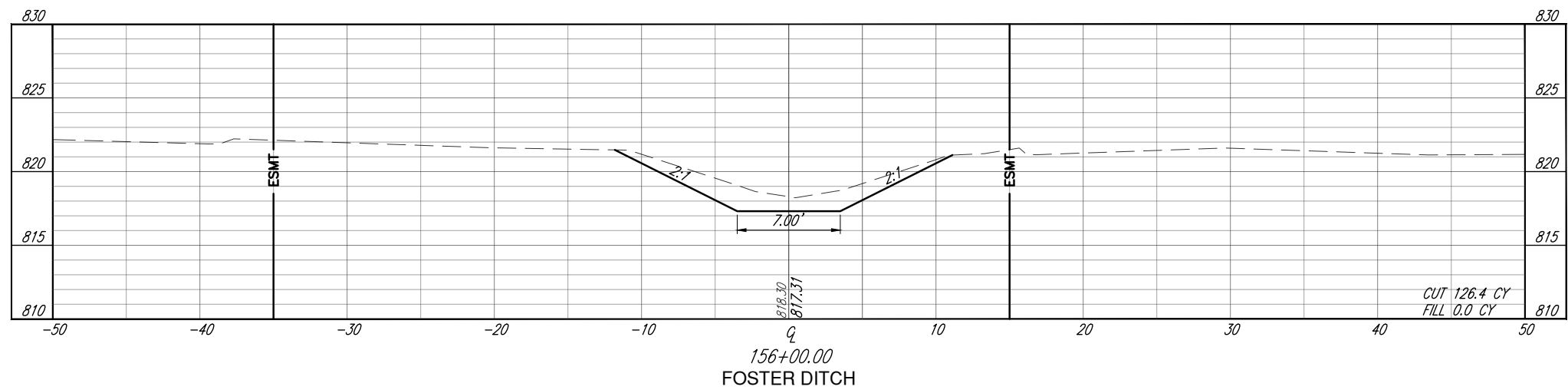
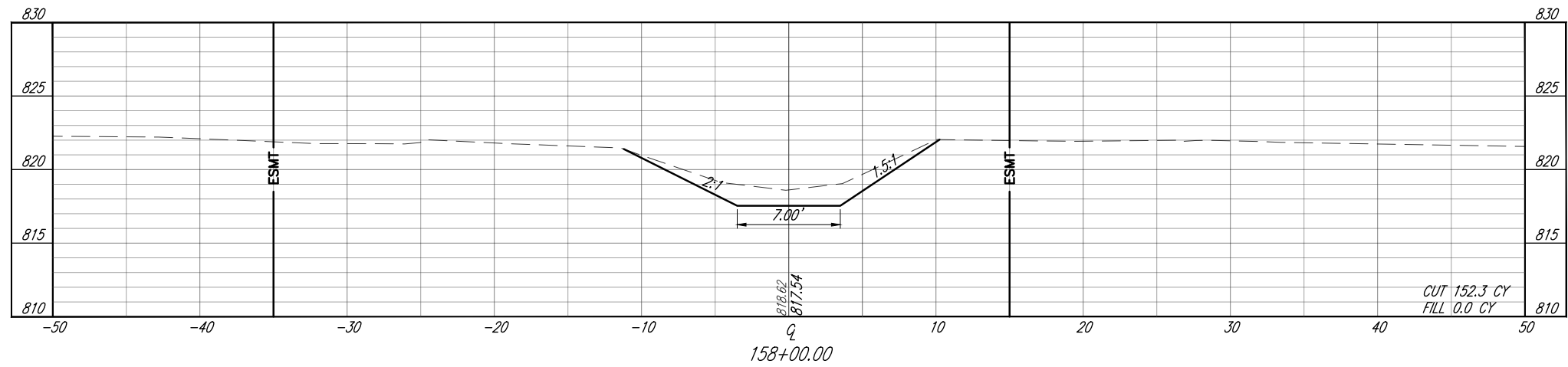
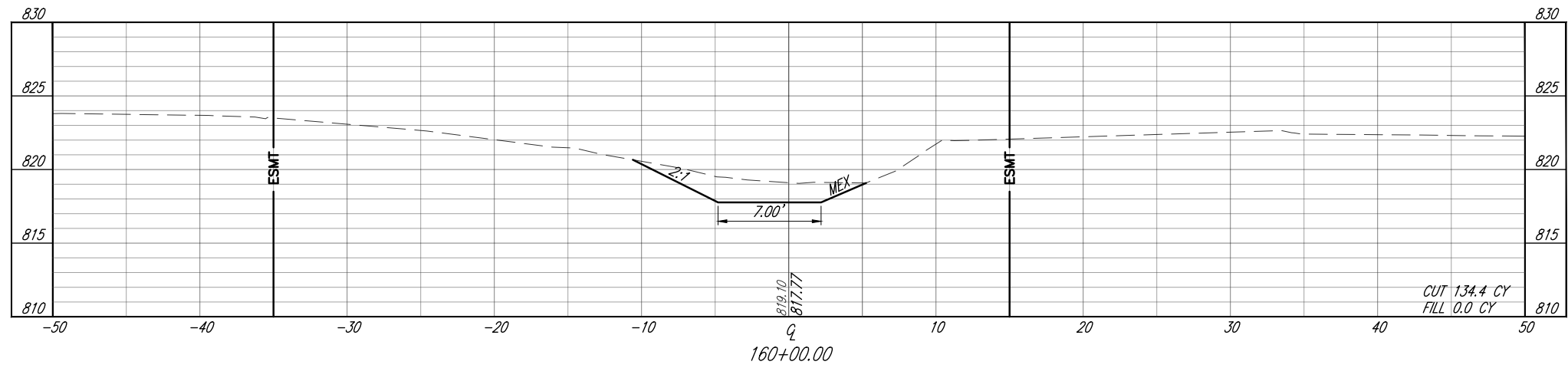
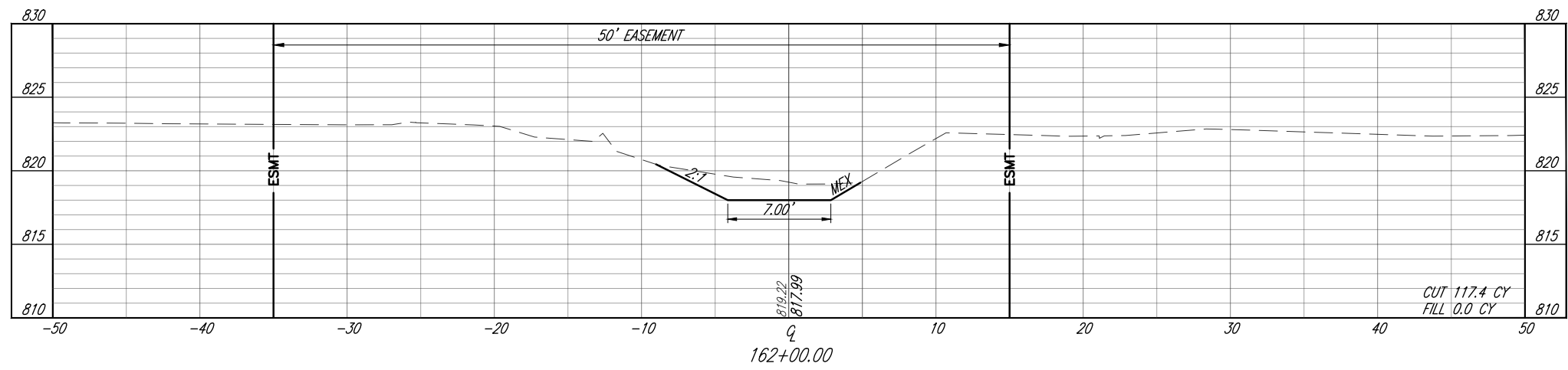
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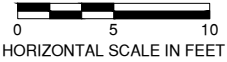
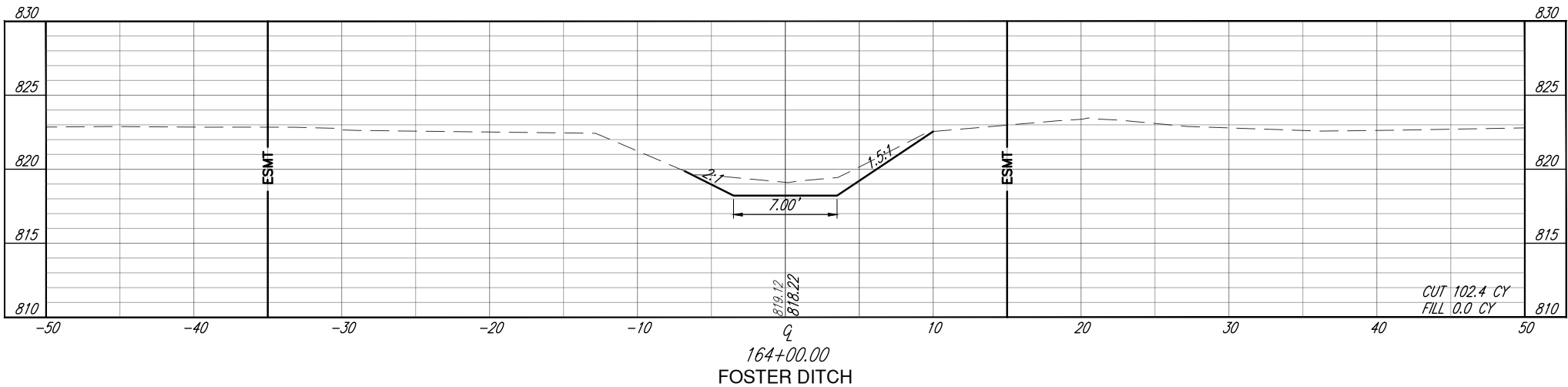
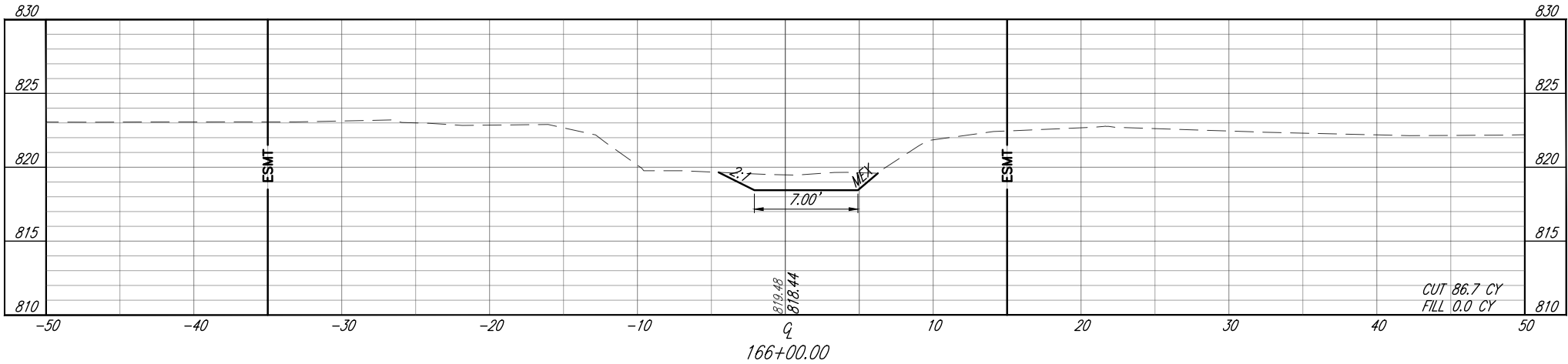
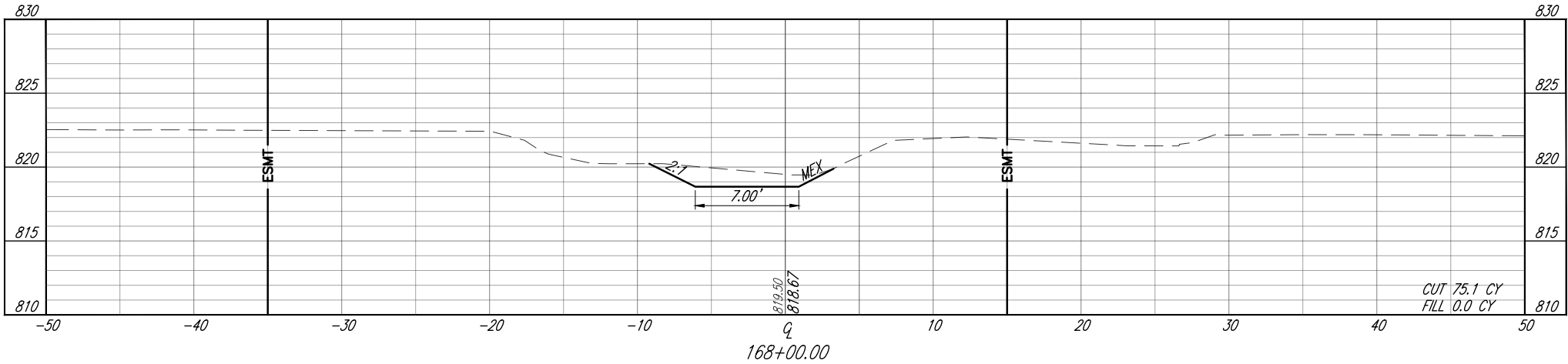
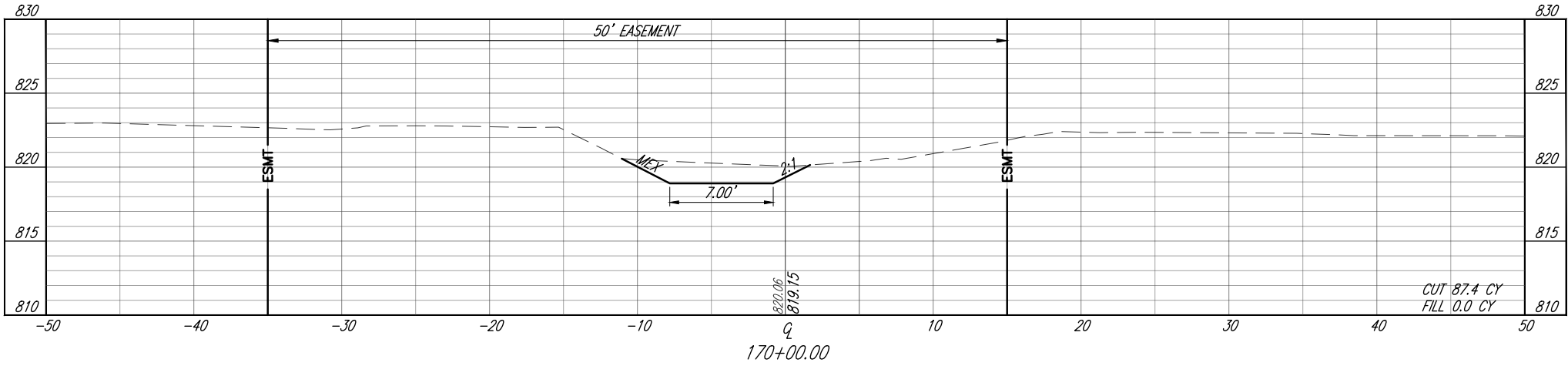
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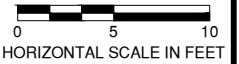
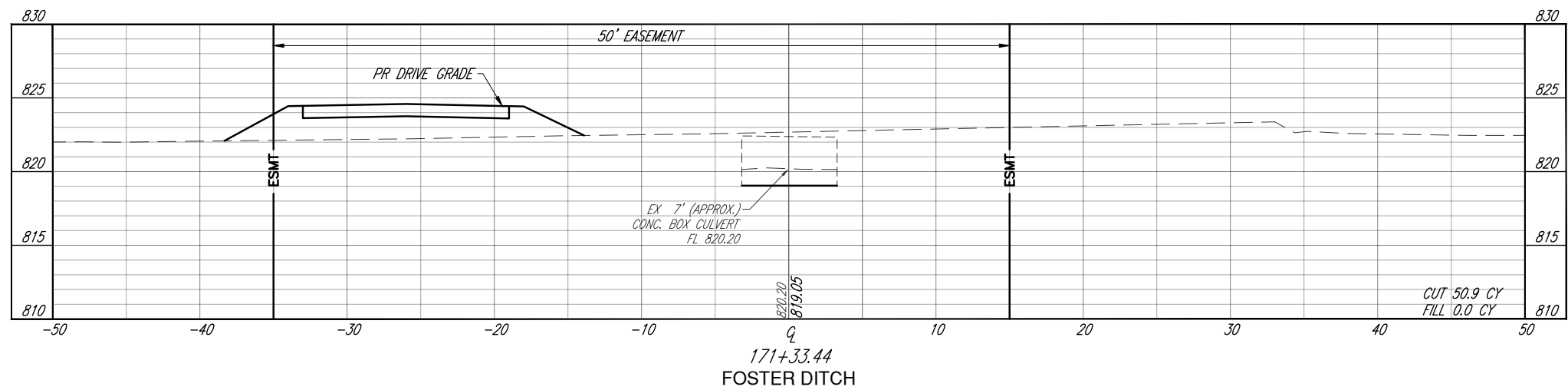
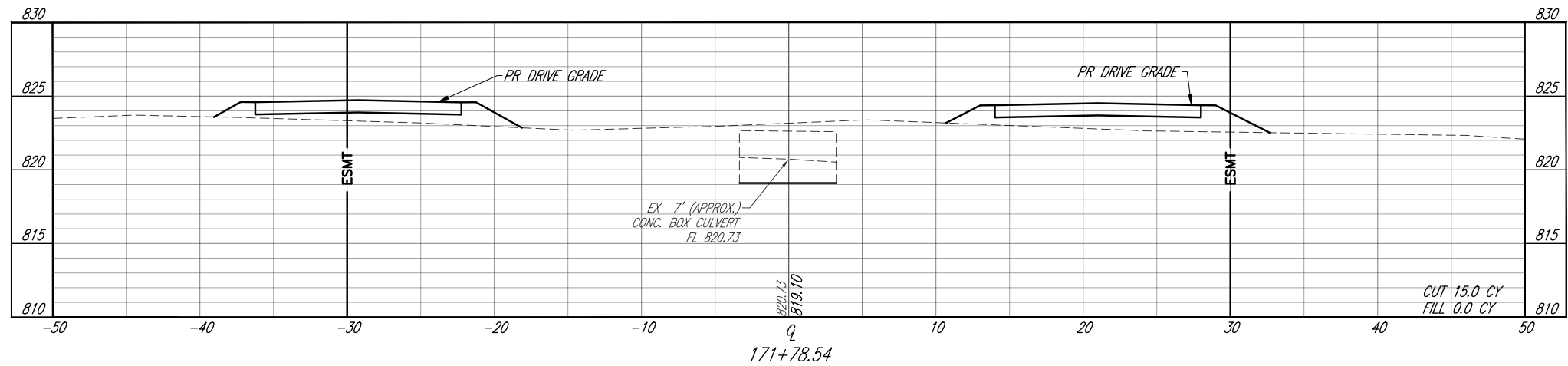
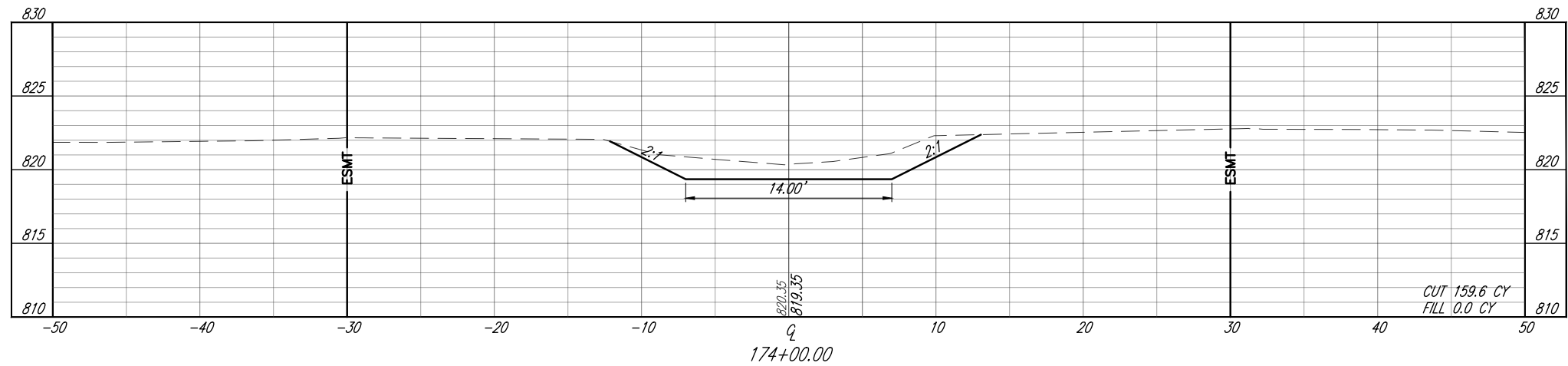
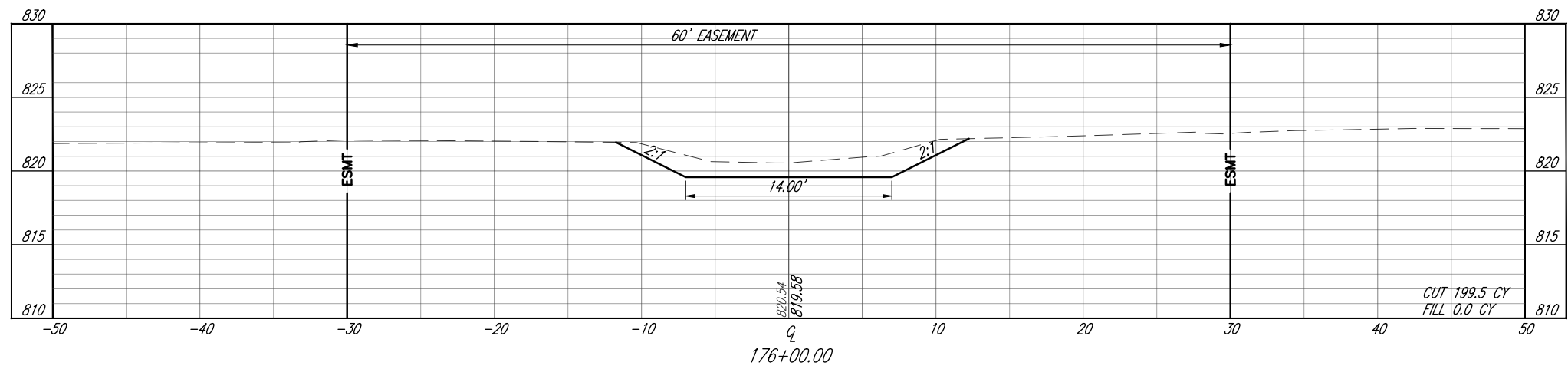
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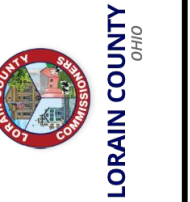
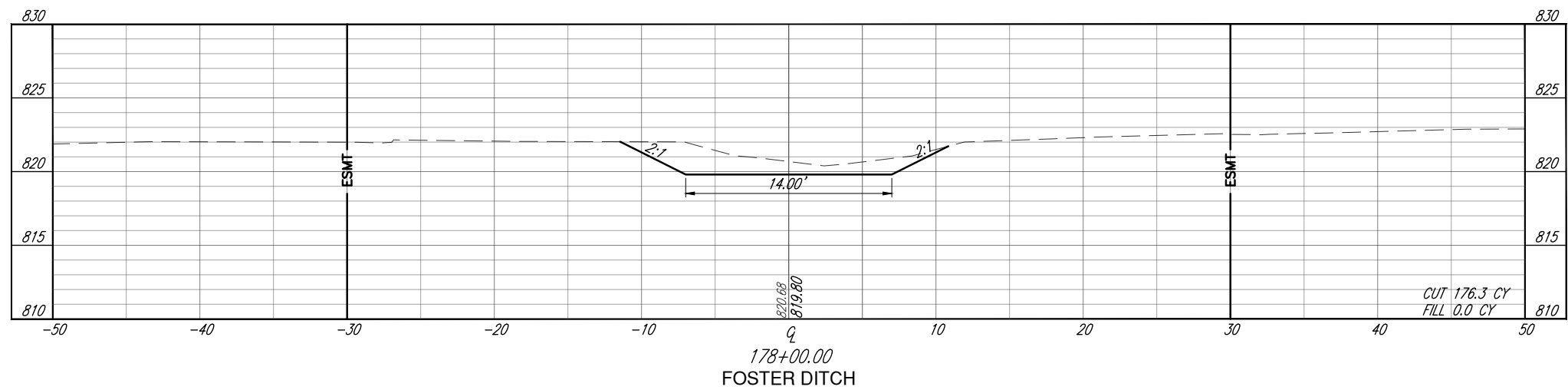
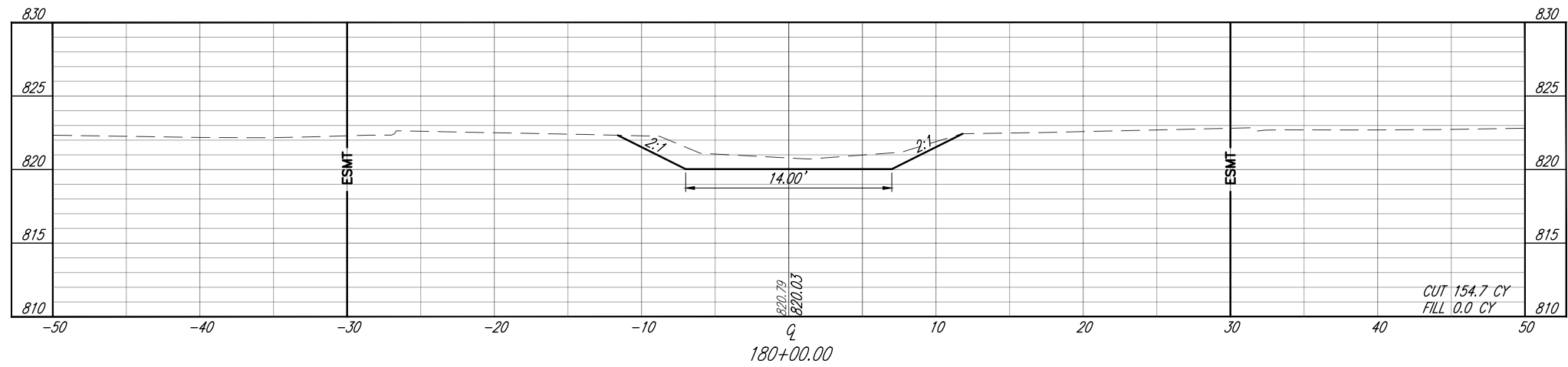
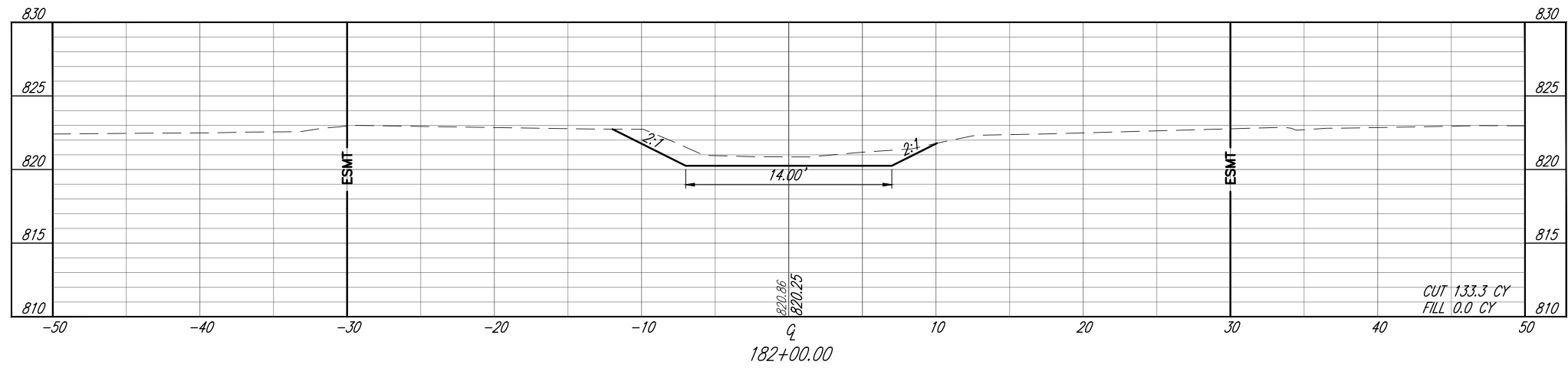
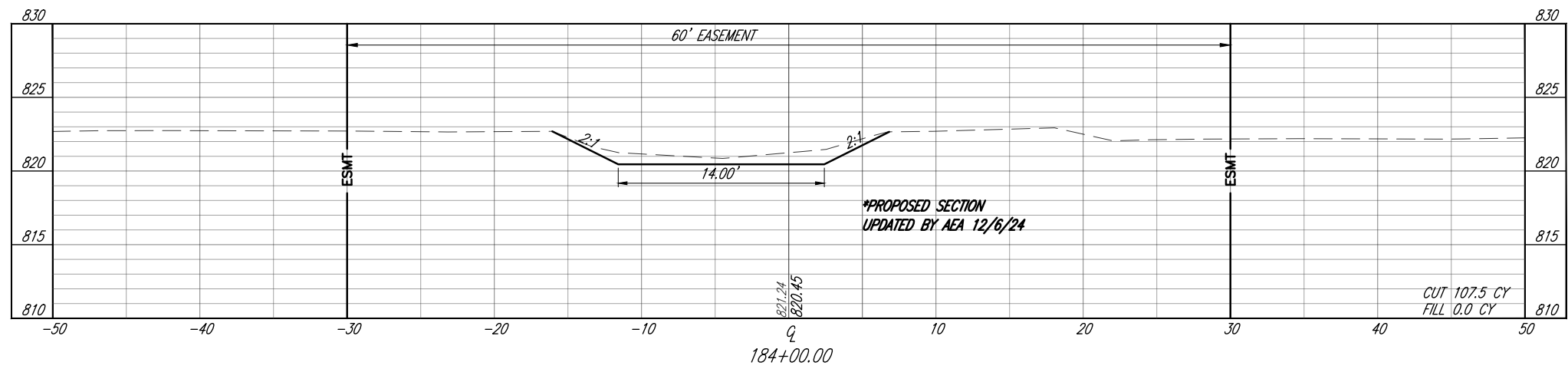
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LORAIN COUNTY, OHIO

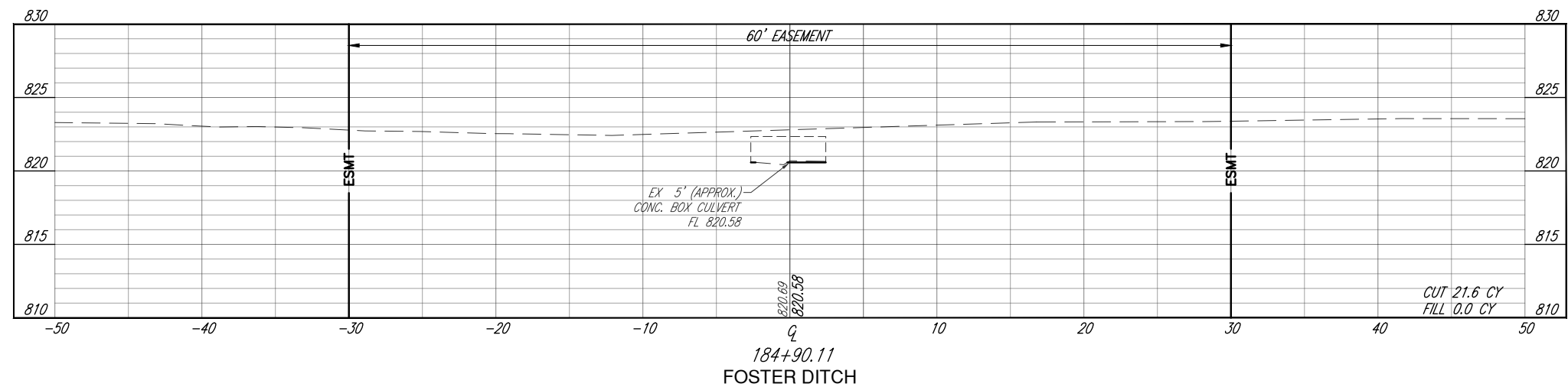
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Profile view of the road showing elevation (810 to 830) versus stationing (-50 to 50). A dashed line represents the existing ground surface. A solid line represents the proposed road grade, which is 5 feet above the existing ground at station 185+19.91. A box culvert is shown at station 185+19.91, with a depth of 5 feet (approximate). The culvert is labeled "EX. 5' (APPROX.) CONC. BOX CULVERT FL 820.67". The ground surface is labeled "CUT 0.3 CY" and "FILL 0.0 CY".



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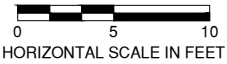
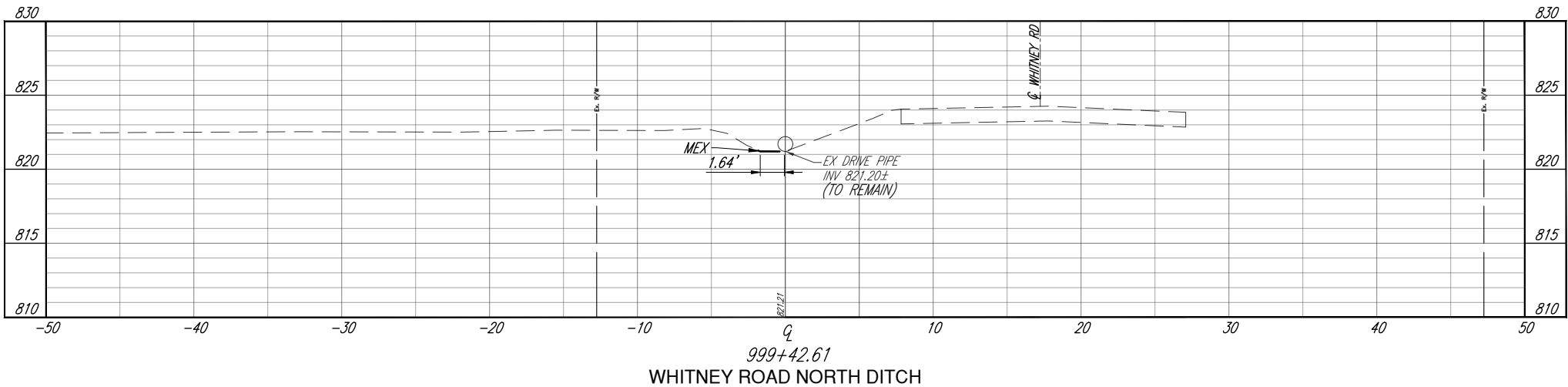
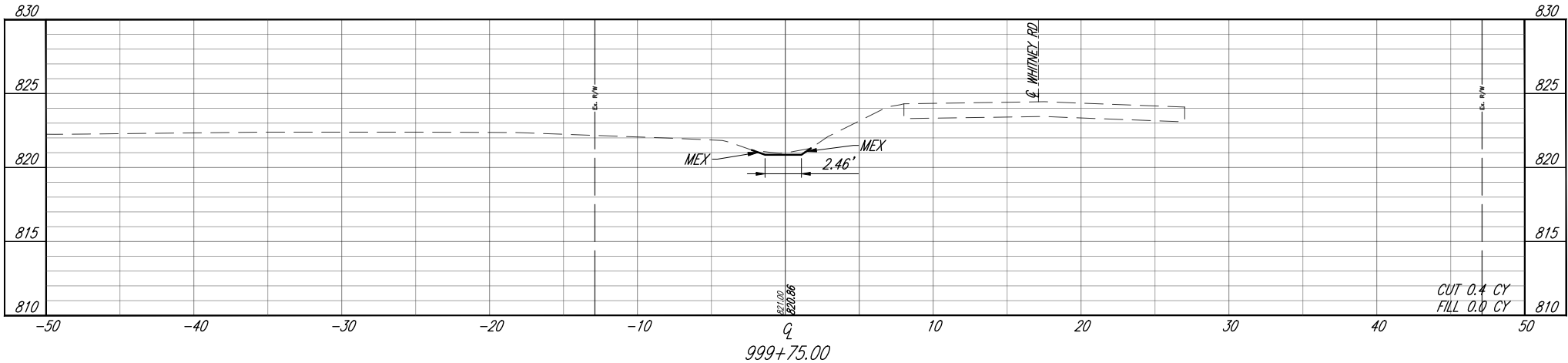
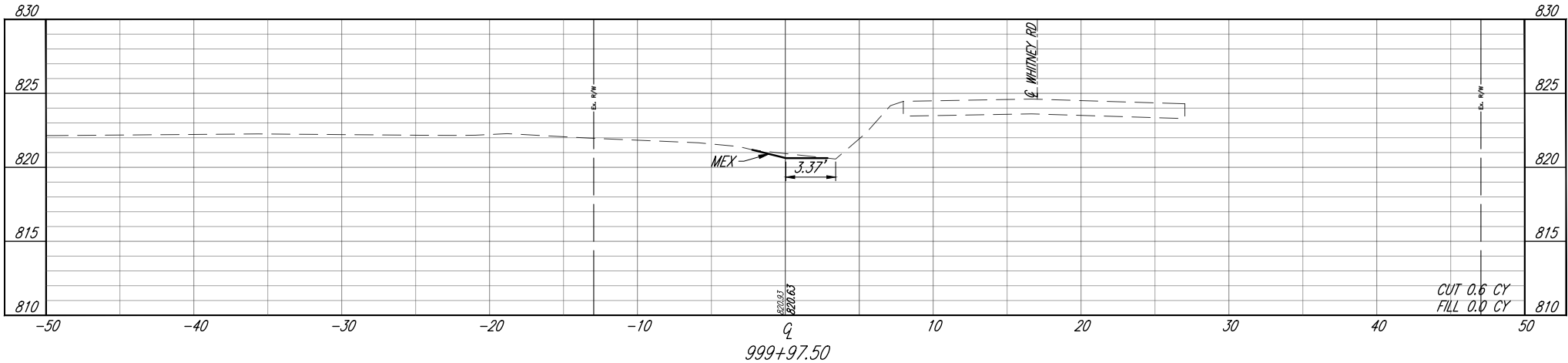
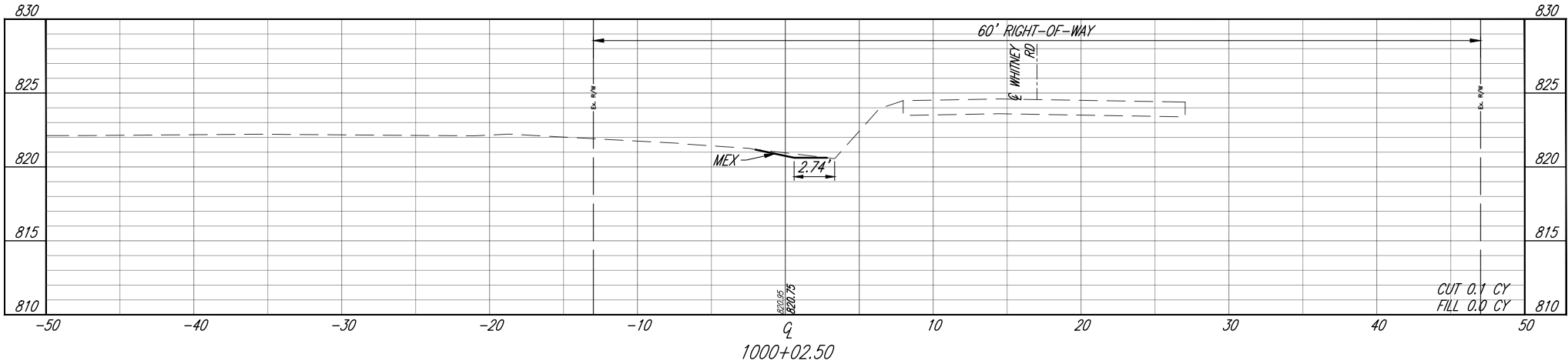
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FOSTER DITCH RESTORATION

LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

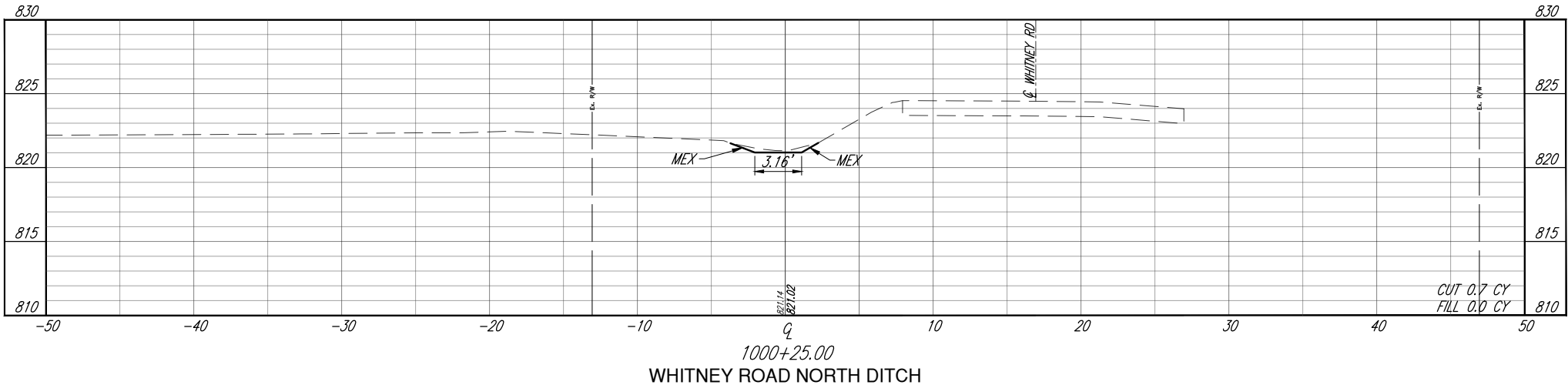
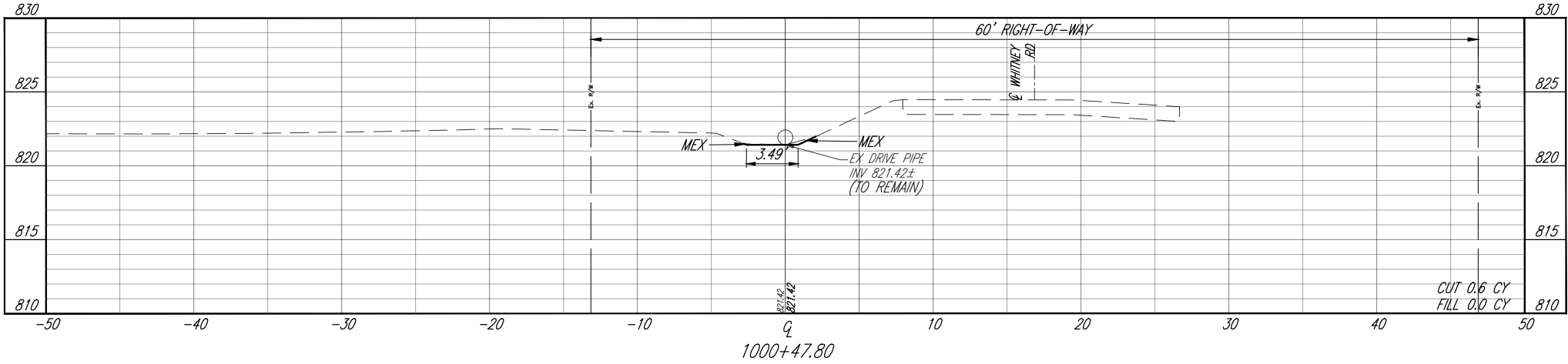
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FOSTER DITCH RESTORATION

LAGRANGE TOWNSHIP
LORAIN COUNTY, OHIO

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Appendix D

Photo Log

FOSTER DITCH IMPROVEMENTS

PHOTO LOG



NOVEMBER, 2024

K.E. McCartney & Associates, Inc.

Lorain County Ditch Inspection

Inspection Id:	1
Date and Time:	November 7, 2024 10:21 AM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	10'x5'x6"= 25 CF
Comment:	Sediment removal area.

Image 1



Lorain County Ditch Inspection

Inspection Id:	2
Date and Time:	November 7, 2024 10:29 AM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	15'x5'x6" = 37.5 CF
Comment:	Sediment removal west side of ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	3
Date and Time:	November 7, 2024 10:30 AM
Inspection Type:	Minor Log Jam
Comment:	Few logs in ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	4
Date and Time:	November 7, 2024 10:34 AM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	10'x10'x6"= 50 CF
Comment:	Sediment removal downstream of whitehead road culvert.

Image 1



Lorain County Ditch Inspection

Inspection Id:	5
Date and Time:	November 7, 2024 10:38 AM
Inspection Type:	Minor Log Jam
Comment:	Few logs and brush piled in ditch.

Image 1



Image 2



Lorain County Ditch Inspection

Inspection Id:	6
Date and Time:	November 7, 2024 10:39 AM
Inspection Type:	Minor Log Jam
Comment:	Few logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	7
Date and Time:	November 7, 2024 10:41 AM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	3'x8'x1'= 24 CF
Comment:	Sediment removal on centerline of ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	8
Date and Time:	November 7, 2024 10:43 AM
Inspection Type:	Minor Log Jam
Comment:	Single log across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	9
Date and Time:	November 7, 2024 10:46 AM
Inspection Type:	Minor Log Jam
Comment:	Trees areoss ditch. Remove log ja.

Image 1



Lorain County Ditch Inspection

Inspection Id:	10
Date and Time:	November 7, 2024 10:51 AM
Inspection Type:	Minor Log Jam
Comment:	Flow obstruction

Image 1



Lorain County Ditch Inspection

Inspection Id:	11
Date and Time:	November 7, 2024 10:53 AM
Inspection Type:	Minor Log Jam
Comment:	Few logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	12
Date and Time:	November 7, 2024 10:55 AM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Major
Sediment Estimate:	15'x5'x1'= 75 CF
Comment:	Sediment removal.

Image 1



Lorain County Ditch Inspection

Inspection Id:	13
Date and Time:	November 7, 2024 11:22 AM
Inspection Type:	Minor Log Jam
Comment:	Minor brush obstructed by flow.

Image 1



Lorain County Ditch Inspection

Inspection Id:	14
Date and Time:	November 7, 2024 11:23 AM
Inspection Type:	Minor Log Jam
Comment:	Minor log jam.

Image 1



Lorain County Ditch Inspection

Inspection Id:	15
Date and Time:	November 7, 2024 11:26 AM
Inspection Type:	Minor Log Jam
Comment:	Log jam removal.

Image 1



Lorain County Ditch Inspection

Inspection Id:	16
Date and Time:	November 7, 2024 11:30 AM
Inspection Type:	Minor Log Jam
Comment:	Minor log jams removal.

Image 1



Lorain County Ditch Inspection

Inspection Id:	17
Date and Time:	November 7, 2024 11:37 AM
Inspection Type:	Minor Log Jam
Comment:	Brush in ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	18
Date and Time:	November 7, 2024 11:46 AM
Inspection Type:	Minor Log Jam
Comment:	

Image 1



Lorain County Ditch Inspection

Inspection Id:	19
Date and Time:	November 7, 2024 11:46 AM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	15'x4'x6"= 30 CF
Comment:	Sediment removal on centerline of ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	20
Date and Time:	November 7, 2024 11:48 AM
Inspection Type:	Minor Log Jam
Comment:	Few logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	21
Date and Time:	November 7, 2024 11:53 AM
Inspection Type:	Minor Log Jam
Comment:	Few logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	22
Date and Time:	November 7, 2024 11:58 AM
Inspection Type:	Minor Log Jam
Comment:	Log across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	23
Date and Time:	November 7, 2024 12:02 PM
Inspection Type:	Minor Obstruction
Comment:	Trees and metal framing in ditch.

Image 1



Image 2



Lorain County Ditch Inspection

Inspection Id:	24
Date and Time:	November 7, 2024 12:07 PM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	10'x3'x6"= 15 CF
Comment:	

Image 1



Lorain County Ditch Inspection

Inspection Id:	25
Date and Time:	November 7, 2024 12:13 PM
Inspection Type:	Minor Log Jam
Comment:	Log jam to remove.

Image 1



Lorain County Ditch Inspection

Inspection Id:	26
Date and Time:	November 7, 2024 12:14 PM
Inspection Type:	Minor Log Jam
Comment:	Logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	27
Date and Time:	November 7, 2024 12:16 PM
Inspection Type:	Minor Log Jam
Comment:	

Image 1



Lorain County Ditch Inspection

Inspection Id:	28
Date and Time:	November 7, 2024 12:22 PM
Inspection Type:	Minor Log Jam
Comment:	Minor log jams to remove.

Image 1



Image 2



Lorain County Ditch Inspection

Inspection Id:	29
Date and Time:	November 7, 2024 12:25 PM
Inspection Type:	Minor Log Jam
Comment:	Log jams removal.

Image 1



Lorain County Ditch Inspection

Inspection Id:	30
Date and Time:	November 7, 2024 12:28 PM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	20'x6'x8"= 80 CF
Comment:	

Image 1



Lorain County Ditch Inspection

Inspection Id:	31
Date and Time:	November 7, 2024 12:43 PM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Minor
Sediment Estimate:	4'x6'x6"=12 CF
Comment:	Sediment removal.

Image 1



Lorain County Ditch Inspection

Inspection Id:	32
Date and Time:	November 7, 2024 12:46 PM
Inspection Type:	Sediment Removal
Sediment Accumulation:	Major
Sediment Estimate:	30'x10'x10"= 250 CF
Comment:	Major sediment removal. Possible at grade crossing.

Image 1



Image 2



Lorain County Ditch Inspection

Inspection Id:	33
Date and Time:	November 7, 2024 12:53 PM
Inspection Type:	Minor Log Jam
Comment:	Logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	34
Date and Time:	November 7, 2024 12:54 PM
Inspection Type:	Minor Log Jam
Comment:	Logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	35
Date and Time:	November 7, 2024 12:58 PM
Inspection Type:	Minor Obstruction
Comment:	Concrete stairs on the north bank.

Image 1



Lorain County Ditch Inspection

Inspection Id:	36
Date and Time:	November 7, 2024 1:01 PM
Inspection Type:	Minor Log Jam
Comment:	Log across ditch with brush surrounding.

Image 1



Lorain County Ditch Inspection

Inspection Id:	37
Date and Time:	November 7, 2024 1:04 PM
Inspection Type:	Minor Log Jam
Comment:	Log across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	38
Date and Time:	November 7, 2024 1:11 PM
Inspection Type:	Minor Log Jam
Comment:	Log across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	39
Date and Time:	November 7, 2024 1:12 PM
Inspection Type:	Minor Log Jam
Comment:	Few logs across ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	40
Date and Time:	November 7, 2024 1:16 PM
Inspection Type:	Minor Log Jam
Comment:	Brush in ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	41
Date and Time:	November 7, 2024 1:22 PM
Inspection Type:	Minor Log Jam
Comment:	Logs and brush in the ditch.

Image 1



Lorain County Ditch Inspection

Inspection Id:	42
Date and Time:	November 7, 2024 1:29 PM
Inspection Type:	Major Log Jam
Comment:	Log jams and brush in ditch.

Image 1



Image 2



Lorain County Ditch Inspection

Inspection Id:	43
Date and Time:	November 7, 2024 1:48 PM
Inspection Type:	Minor Obstruction
Comment:	Trees growing in ditch.

Image 1



Appendix E
Foster Ditch Preliminary Report, 2021

Lorain County Storm Water Management District
226 Middle Avenue
Elyria, Ohio 44035

Attn: Don Romancak, Storm Water Coordinator romancakd@loraincounty.us

Re: **Foster Ditch Restoration** (SWAC) planning, LaGrange Twp.

Gentlemen:

For planning purposes, we report as follows, including our preliminary project scope and rough estimate of drainage improvement costs listed under #25 at the end on page 14:

1. The drainage problems reported lie east of the box culvert under Ohio Route 301 along Foster Ditch. Naturally low-lying portions of two farms on the south side of Whitney Road, and several low-lying residential front yards along the north side of Whitney Road suffer from frequent shallow (at least 1 foot deep) flooding; and occasionally more severe flooding, including reported flooding over Whitney Road, and at least one basement back-up reported on Route 301:



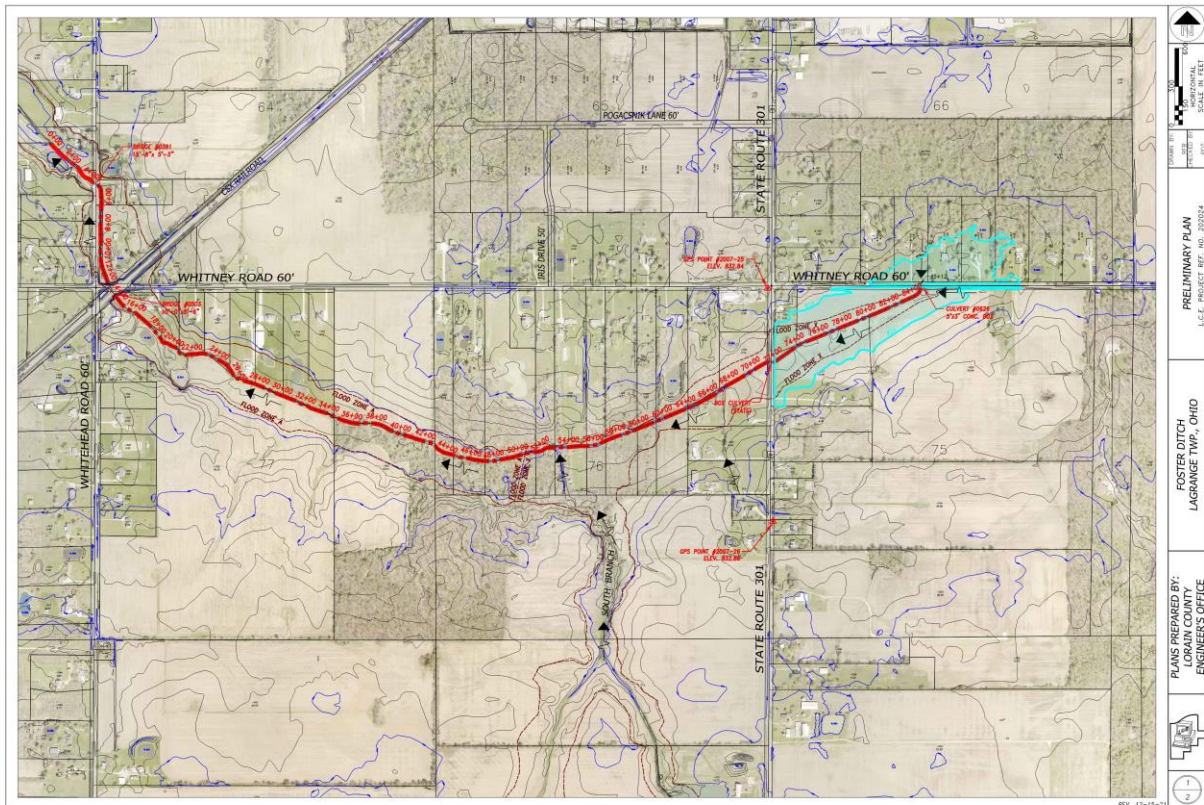
2. Additionally, water frequently stands in Foster Ditch at the box culvert under Whitney Road (opposite 40798 Whitney Rd.):



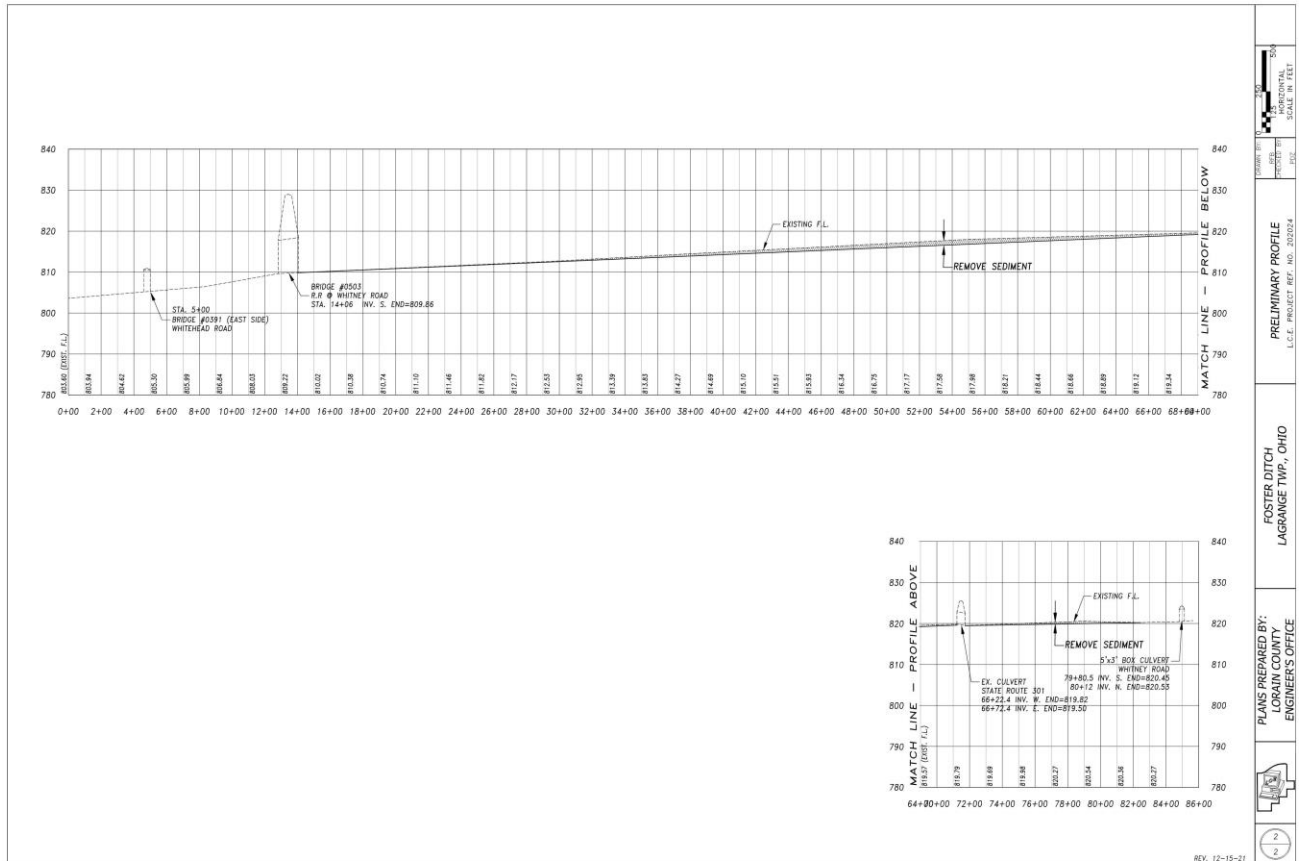
3. At this time, there are no flooding complaints west of Route 301 (downstream).
4. Preliminary analysis indicates that these two culverts suffer from the lack of adequate drainage outlets—especially west of Route 301 where sediment and vegetative overgrowth obstruct Foster Ditch for quite some distance downstream:



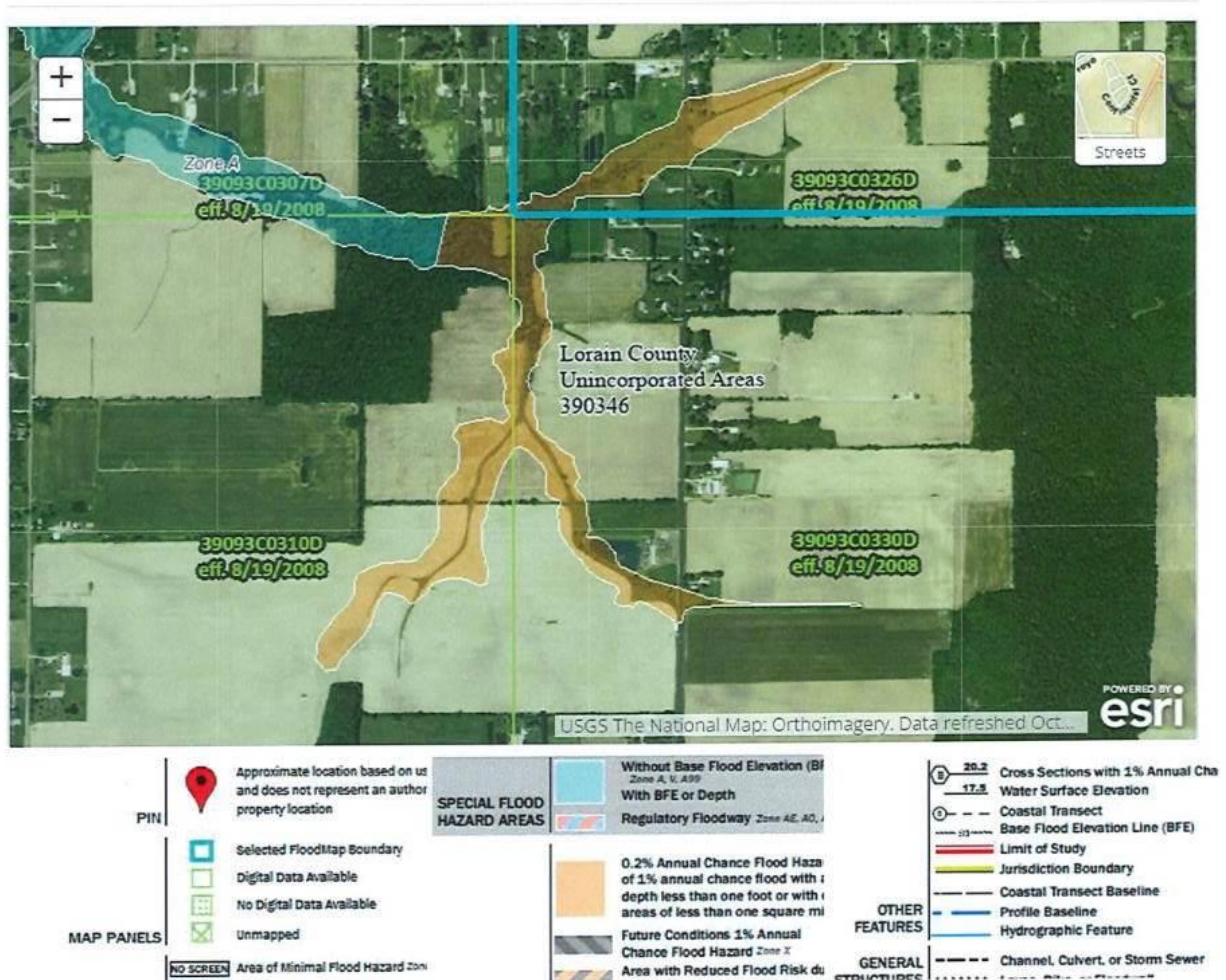
5. Therefore, this report addresses the reach of Foster Ditch from the culvert under Whitney Road, as it runs generally west about 1.6 miles to Whitehead Road, as indicated in **red** on the following map. This scope/project limits are consistent with the Township's original request. The flood problem area is indicated in **blue** color at the right of the map:



This engineering profile drawing indicates the approximate levels of sediment to be removed to restore the flow line of Foster Ditch:



6. We have received no reports of any recent maintenance efforts along Foster Ditch.
7. FEMA Flood Zones A and X generally characterize this reach of Foster Ditch. Zone X (an “other special flood hazard area”) in orange color extends to Whitney Road at the upper right. Zone X also extends along the south branch of Foster Ditch through woodland and into other farmland that lies further to the south:



8. Because of its natural topography, the slope of Foster Ditch east of Ohio Route 301 would remain very flat (less than 0.1%), even after cleaning. This sub-reach is overgrown with cattails, and with heavier vegetation near Route 301, but suffers from less than one foot of sedimentation at this time. Access for maintenance along the north side of the ditch is readily available at the Whitney Road culvert, however:



8. Unfortunately, it is not feasible to significantly deepen the ditch east of Route 301. Therefore, only slight improvement or restoration of the ditch's drainage capacity is possible east of Route 301. The low-lying land and flood prone problem areas would still suffer from relatively poor drainage, even after any downstream restoration west of Route 301. The expectation would be that floodwaters would accumulate to a slightly lesser depth, and could drain away slightly faster, however.
9. Because it is low-lying, the land along Foster Ditch east of Route 301 may be a candidate for the location of a future storm water management facility, however. The area might afford a small amount of storage capacity compared to its upstream tributary. Significant widening of the ditch would be the simplest and most cost-effective method to provide additional storage volume here—see photos of this area that appear on the following page. Further engineering analysis of this possibility is beyond the scope of this ditch report.



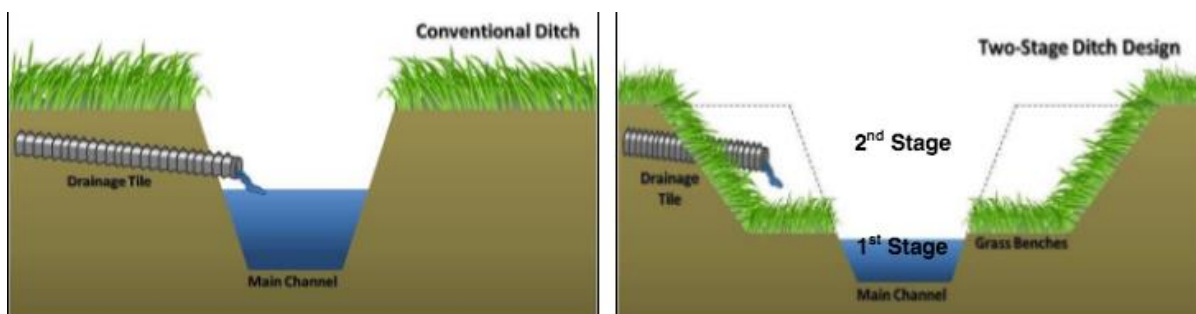
10. West of Route 301, the next sub-reach of Foster Ditch runs through the sides and rears of rural residential yards one-third mile to the confluence with its south branch (or lateral ditch). This area is also overgrown with vegetation including trees, but suffers from more sedimentation, especially around the confluence. Removal of vegetation and one to two feet of sediment could improve the slope of this sub-reach slightly (to about 0.1%):



11. Because it is low-lying and centrally located, that land near the confluence is a good candidate for the location of a future storm water management facility. The larger (currently wooded) area could afford more storage capacity, and such a facility could include sediment trapping and environmental features that would protect Foster Ditch from agricultural runoff. Further engineering analysis of this possibility is beyond the scope of this ditch report.
12. Downstream from the confluence, Foster Ditch runs three-fourths mile further west to the railroad bridge near Whitehead Road. This sub-reach also suffers from vegetative overgrowth and large woody debris, but sedimentation appears to decrease downstream from the confluence. Large woody debris obstructs one notable triple CMP culvert that provides access to farms and a commercial gas well as shown in the following photo:



13. Because of its wide bottom, high flows, and large drainage area, Foster Ditch below the confluence may be a candidate for the two-stage (pilot channel) ditch design that is promulgated by H2Ohio and others. Less excavation (therefore slightly less cost) may possibly offer the more cost-effective ditch cross-section. Additional engineering with topographic mapping would properly evaluate this design alternative:



14. Downstream, the railroad bridge (a large arched culvert) changes direction underground, then emerges as a concrete box on the west side of Whitehead Road:



15. Preliminary analysis indicates that the railroad structure slightly increases (backs-up) the elevation of floodwaters in Zone A near the railroad, but its influence is not appreciable at the problem area east of Route 301 that is 1.4 miles upstream. Furthermore, the cost of replacing or upgrading this large structure is likely prohibitive.

16. As it turns north along Whitehead Road, the natural slope of Foster Ditch increases to 0.5% from the railroad to the next bridge that is 0.2 mile downstream. This sub-reach does not suffer from significant sedimentation, however. Cleaning by removing individual sediment deposits, trees and vegetation, and shaping the ditch banks at 2:1 slope would restore the adequacy of this outlet that is located downstream from the railroad box structure:



17. Improvements to this sub-reach (especially shaping of the banks) likely will require the replacement of the following residential driveway bridge. The pictured house that is served by this private bridge, lies entirely in Flood Zone A, but no flooding complaints have been reported there:



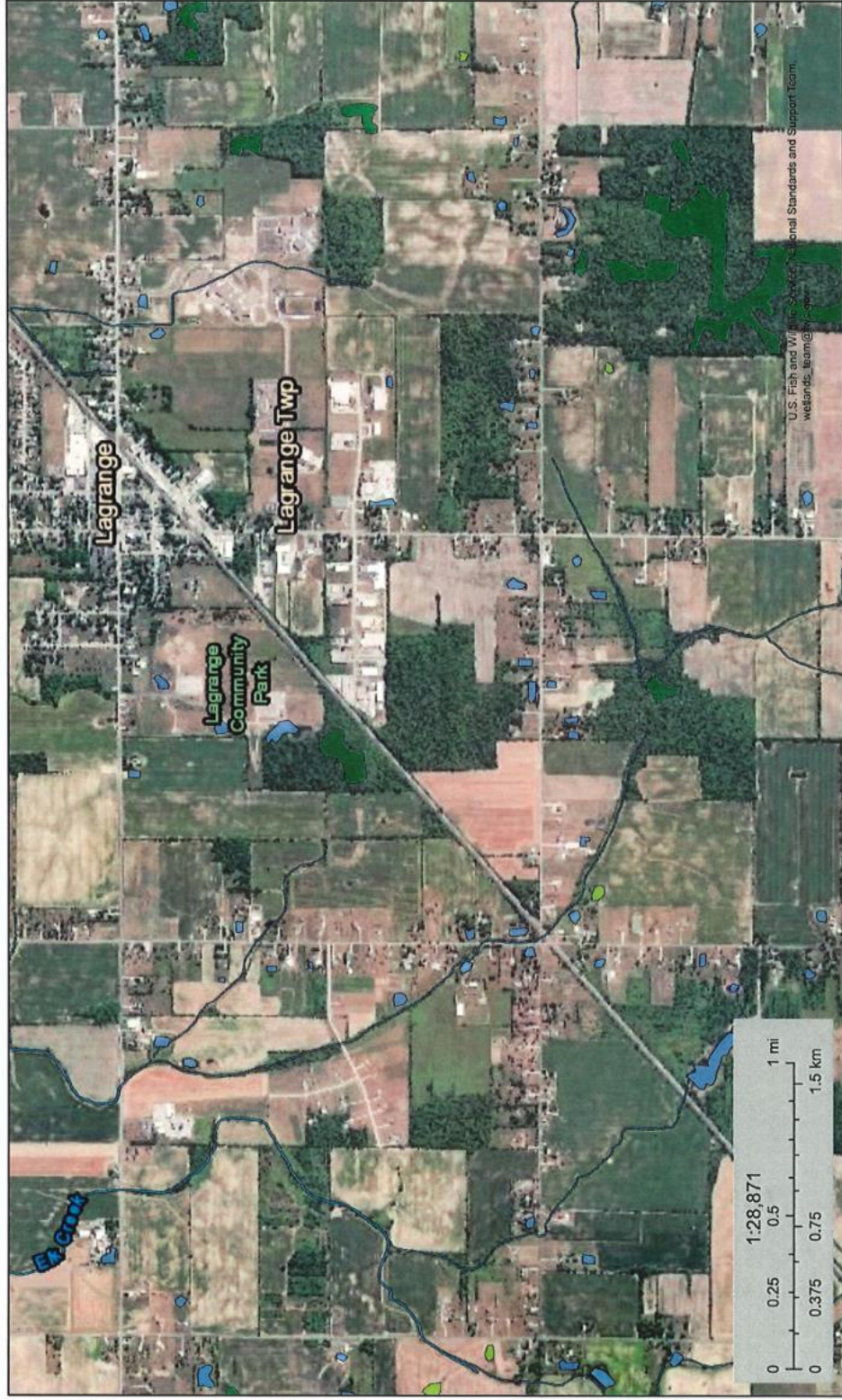
18. Whitehead Road itself lies in Flood Zone A from Whitney Road north past the bridge. Preliminary analysis indicates that the public roadway bridge across Whitehead Road slightly increases the elevation of the floodwaters in this vicinity. Therefore, the adequacy of its outlet should be restored by at least 200 feet of ditch channel cleaning, removal of vegetation, and erosion control downstream from the Whitehead Road bridge:



This would represent the western terminus of the recommended project scope--construction activities would proceed from here eastward to the culvert under Whitney Road that is about 1.6 miles upstream.

19. Note that more than one dozen private crossings of Foster Ditch between Whitehead Road and Route 301 would require removal or replacement. Except for the two described above, most are light-duty wooden bridges that provide access to wooded residential backland (about twenty acres total). Further analysis will determine the preferred methods to accommodate these crossings, and will better estimate the associated costs. Alternatively, acquisition of the twenty acres of land may cost less.
20. Further analysis of wetlands and environmental constraints may substantially impact the costs estimated in this report. Although the National Wetlands Inventory Map (see map on the following page) does not indicate significant conflicts, further environmental investigation will be necessary. Additional costs may include the need for consultants, US Army Corps of Engineers or Ohio EPA permits, the use of timber mats during construction, innovative low-impact private ditch crossings, etc.

Foster Ditch 2018



December 10, 2018

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

21. The construction of this large project may be accomplished in phases. A logical first phase would involve the removal of trees, vegetation, large woody debris (log jams) and obstructions within the new easement corridor.
22. This ditch improvement project would likely proceed under the Ohio petition process. Some damage costs may be expected to impact the project's total cost. Assessments would be calculated based upon benefited acreage, but other County funds may pay some or all of the costs. If approved by the County Commissioners, the petition will create a new easement, and provide for permanent maintenance of the improvements.
23. Historically, the County cleaned Foster Ditch in 1840 and again in 1894, but without any provisions for maintenance. At those times the petitioner, George Foster, owned the farmland immediately east of present-day Route 301.
24. See also my preliminary report dated December 7, 2018 for additional flood photos and related information.
25. For planning purposes, the total ditch restoration project may be estimated at about \$1 million, broken down by major reaches as follows:

A. Outlet northwest of railroad/Whitney Rd.	\$150,000
B. Between Whitehead Rd. and Route 301	\$692,500
C. Route 301 northeast to Whitney Rd.	<u>\$112,500</u>
Total	\$955,000

Peter Zwick, P.E., P.S.
Chief Deputy Engineer

& SEAL

PZ/kim

cc:

cc: Doug Gardner, Trustee dg6129@windstream.net

????? Roberta Dove Moore, Fiscal Officer via e-mail lagrangetownship@gmail.com

K:\SWMD (SWAC) & DRAINAGE Projects\DITCHES\Foster Ditch LaGrange Twp 2018\SWAC

Appendix F
Preliminary Wetland Assessment, 2023

Technical Memorandum

Date: August 18, 2023

To: Mark Rufener
K.E. McCartney & Associates
5065 Oberlin Avenue
Lorain, Ohio 44053

From: Chip Wendt, Water Resources Specialist
Coldwater Consulting, LLC
3079 East Erie Ave.
Lorain, Ohio 44052

Re: Foster Ditch Improvement Project
Preliminary Wetland Assessment

Dear Mr. Rufener:

Lorain County desires to perform ditch maintenance along a reach of Foster Ditch in portions of Lagrange township, Lorain County, Ohio. The project involves the establishment of original design contours through excavation of sediment and debris from the channel and bank shaping. On June 20, 2023, Coldwater Consulting, LLC conducted a preliminary wetland assessment of the project area to determine the potential presence of wetlands or other regulated surface waters. The assessment corridor was defined as 35 feet from the channel centerline on both sides of the stream, along the approximate 8,600-foot reach of open channel proposed for maintenance.

The United States Army Corps of Engineers (USACE) regulates the discharge of dredged or fill material in waters of the United States under Section 404 of the Clean Water Act. A summary of surface water features identified during the inventory, including Coldwater's opinion regarding USACE jurisdiction, is provided below in Table 1. Representative photographs of these features are attached. The National Wetlands Inventory mapper tool was consulted to determine if there are any mapped wetlands within the assessment area; as shown on Figure 1, Foster Ditch is described as an intermittent riverine streambed habitat that is flooded seasonally. Surface water locations are shown in Figures 2-3 where 24 emergent wetlands and one unnamed tributary were identified. It is important to note that surface water boundaries shown on the attached figures were not formally delineated and should be considered approximate for planning purposes only.



Table 1: Preliminary Wetland Assessment Results

Name	Type of Surface Water Feature	Relatively Permanent Water	USACE Jurisdiction Likely	USACE Jurisdiction Unlikely
Foster Ditch	Perennial Stream	X	X	
Wetlands 1-24 (PW 1-24)	Emergent	X	X	
Unnamed Tributary 1	Perennial Stream	X	X	

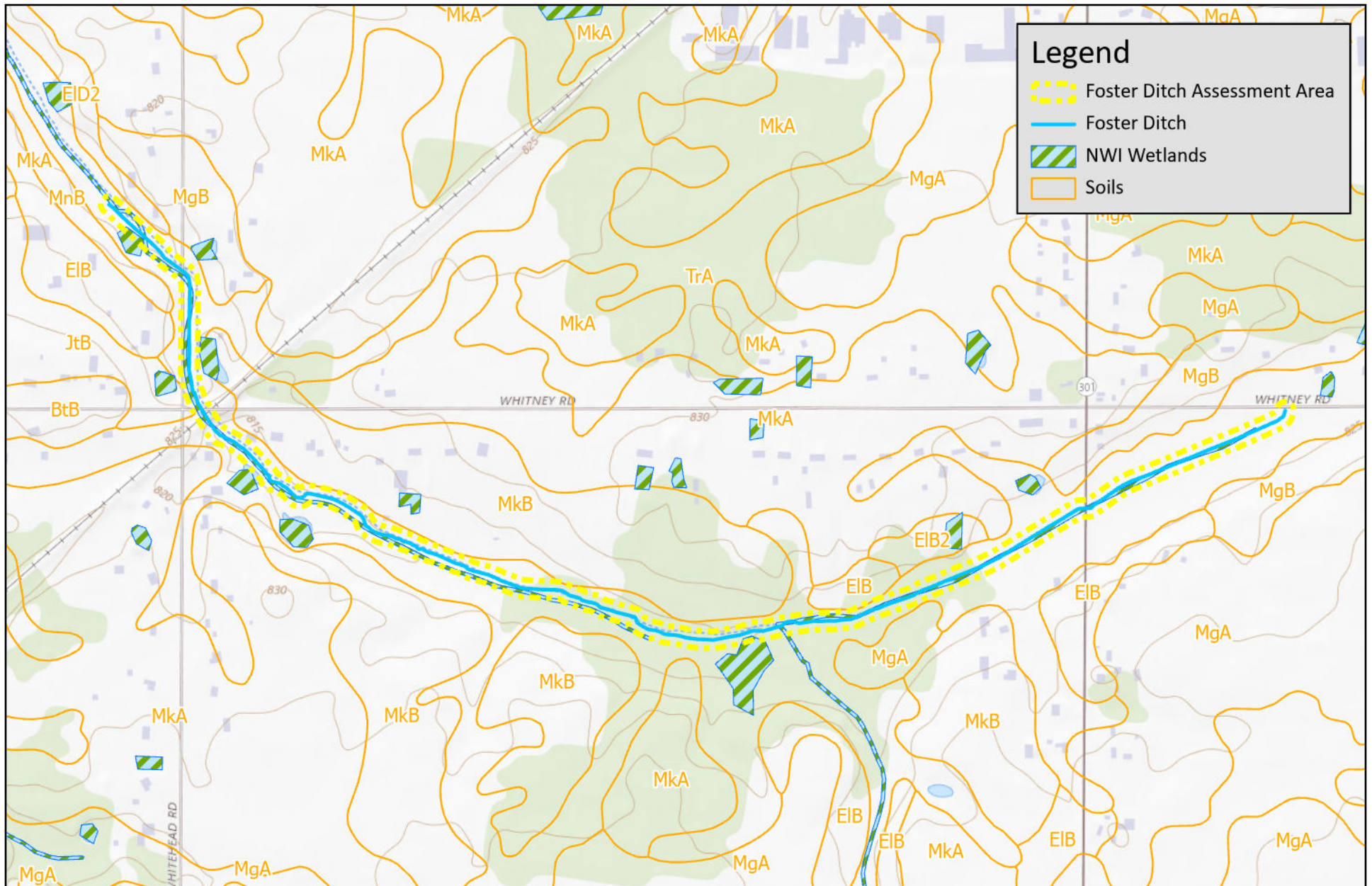
Based upon our assessment, it is likely that the USACE would designate Foster Ditch, and the 24 potential wetlands and one unnamed tributary within the assessment area as jurisdictional waters of the United States.

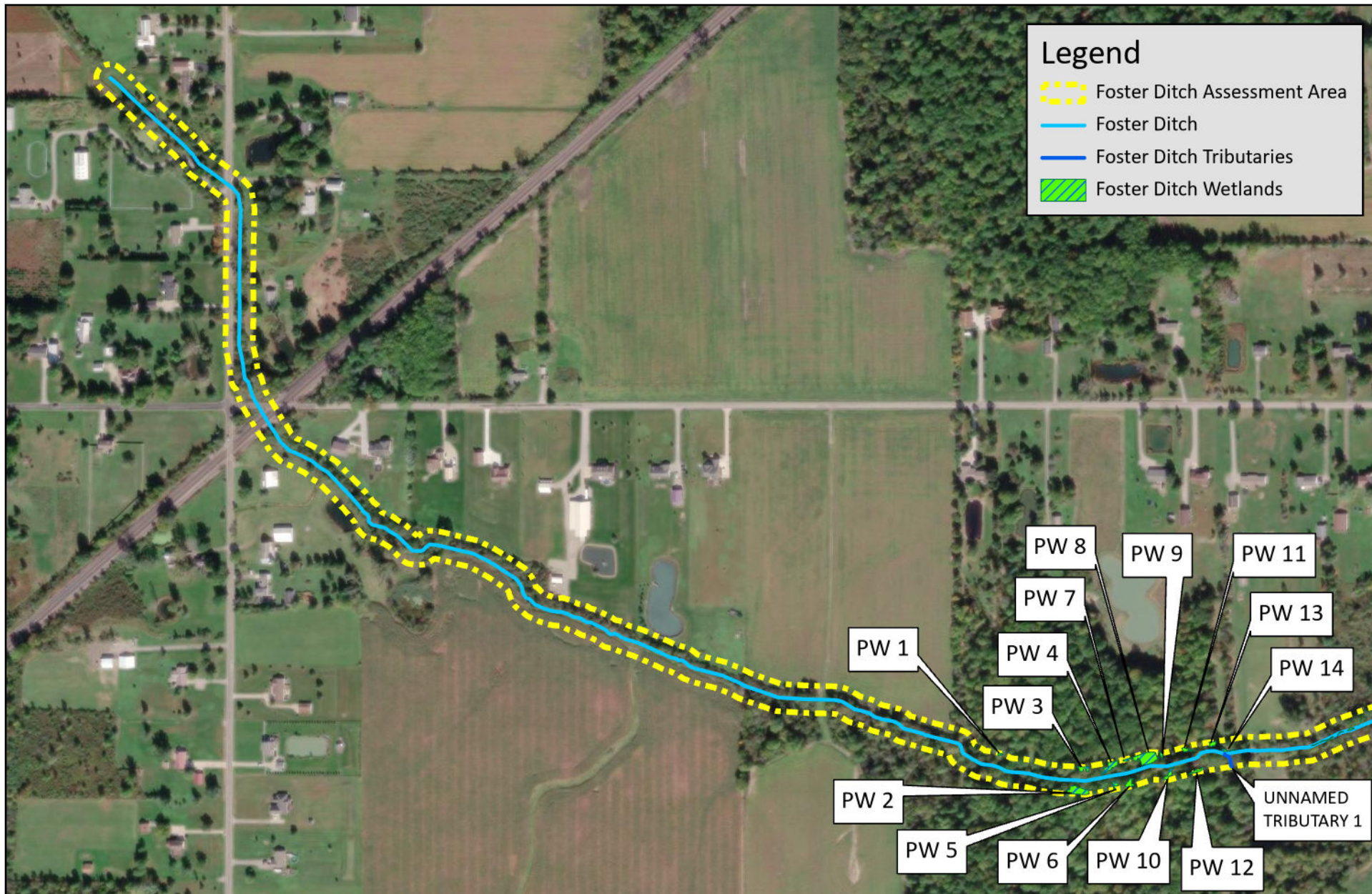
Based upon a meeting with the USACE, Lorain County, and Coldwater Consulting on October 24, 2016, removal of sediments/debris can be accomplished without the need for a 404 permit if performed in a manner that does not result in the discharge of material back into jurisdictional waters. This method is referred to as the one-step removal process and is based upon protocol outlined in “Guidelines for One-Step Removal of Stream Flow Obstructions” by the Kentucky Division of Water. A permit from the USACE may not be required if the one-step removal is performed as outlined below:

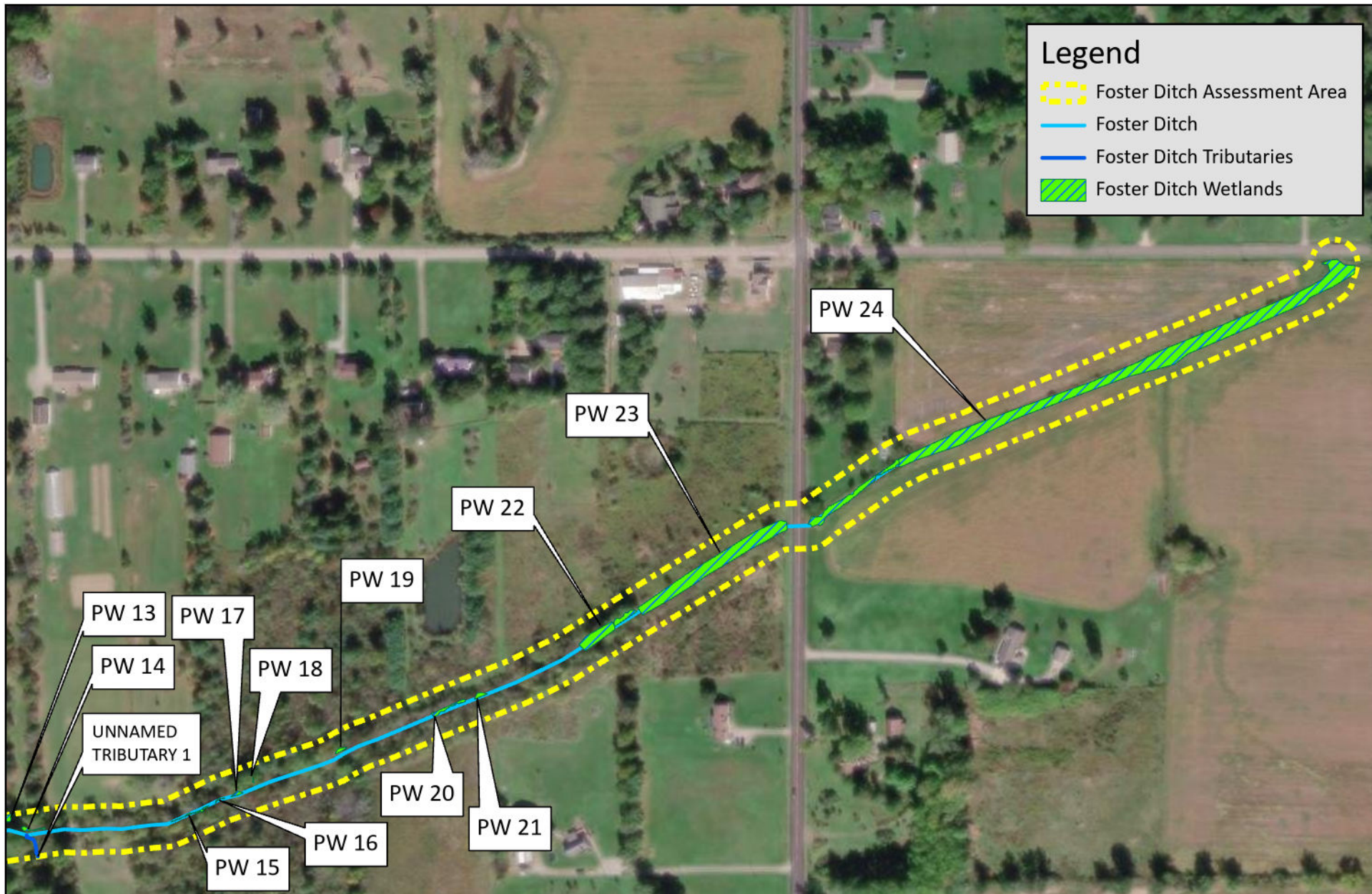
- All work in wetlands should be conducted on timber mats, and when the ground is frozen or sufficiently dry to avoid ground disturbance.
- Any tree removal in wetlands should be minimized to the maximum extent practicable.
- Any trees that must be removed in wetlands must be hand-cut cut (i.e., no mechanized clearing) above their crowns without removing the tree trunks and roots.
- All woody debris resulting from tree removal must be removed from wetlands without the use of heavy equipment.
- The material removed from the channel should be placed sufficiently upland/landward outside of the floodplain; materials should never be stockpiled in the stream channel, stream banks, adjacent wetlands, or floodplain. As an alternative, material removed from the channel may be placed directly into an enclosed truck bed and hauled to an approved upland disposal site.
- The material removed from the channel should be stabilized with seed and mulch; it is recommended that erosion control blankets be installed over seed on streambanks and slopes.
- Temporary sediment/erosion control materials (e.g., silt fence, compost filter socks) should be installed as necessary to prevent dredged material or return water from re-entering the stream. All work should be performed from above the bank and outside of the flowing section(s) of the stream.
- The temporary or permanent disposal and/or side-casting of removed material into wetlands, stream tributaries, side ditches, or other surface waters is not allowed and would require appropriate federal and/or state authorizations before the work is done.
- All disturbed areas outside of the stream channel should be restored to original conditions, reseeded, or replanted with native riparian species and mulched in order to prevent erosion and sedimentation.
- Equipment which can scoop or lift material out of the channel from the stream bank is recommended for this type of work as long as material is not pushed against the banks or piled in the channel.
- Activities should take place during low-flow or no-flow conditions.
- Removal of materials should not be conducted during the fish spawning season (April 15 to June 30).
- Precautions should be taken to prevent petroleum products such as lubricating, engine, or transmission oils and greases, etc. from entering surface waters.



Due to the presence of multiple potentially jurisdictional surface waters within the project area that may not be unavoidable during obstruction removal, it is recommended that this project be coordinated through the USACE Buffalo District to verify that no permit is required if debris removal is implemented as outlined above. The USACE may require a formal wetland delineation and report in order to decide. If any other activities outside of debris removal are proposed (e.g., culvert replacement, riprap placement, stream crossings), coverage under Section 404 and pre-construction notification to the USACE may be required.







Legend

- Foster Ditch Assessment Area
- Foster Ditch
- Foster Ditch Tributaries
- Foster Ditch Wetlands

Appendix G
Foster Ditch Petition Map

with center
cutting out

→ ditch
formerly laid by Commissioners

David Curtis's Land

Lot No. 77

County

South