

BARTON NATURE AREA BORDER TO BORDER TRAIL

CITY OF ANN ARBOR PARKS AND RECREATION SERVICES & WASHTENAW COUNTY PARKS AND RECREATION COMMISSION

CITY RFP# 23-54

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GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, AASHTO'S 2011 A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AASHTO'S 2012 GUIDE TO THE DEVELOPMENT OF BICYCLE FACILITIES.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ANN ARBOR, AND WASHTENAW COUNTY PARKS AND RECREATION COMMISSION WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACTS 173 & 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 OR 811. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE OWNER.

THE ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, PERFORM ALL WORK ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2020 EDITION.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

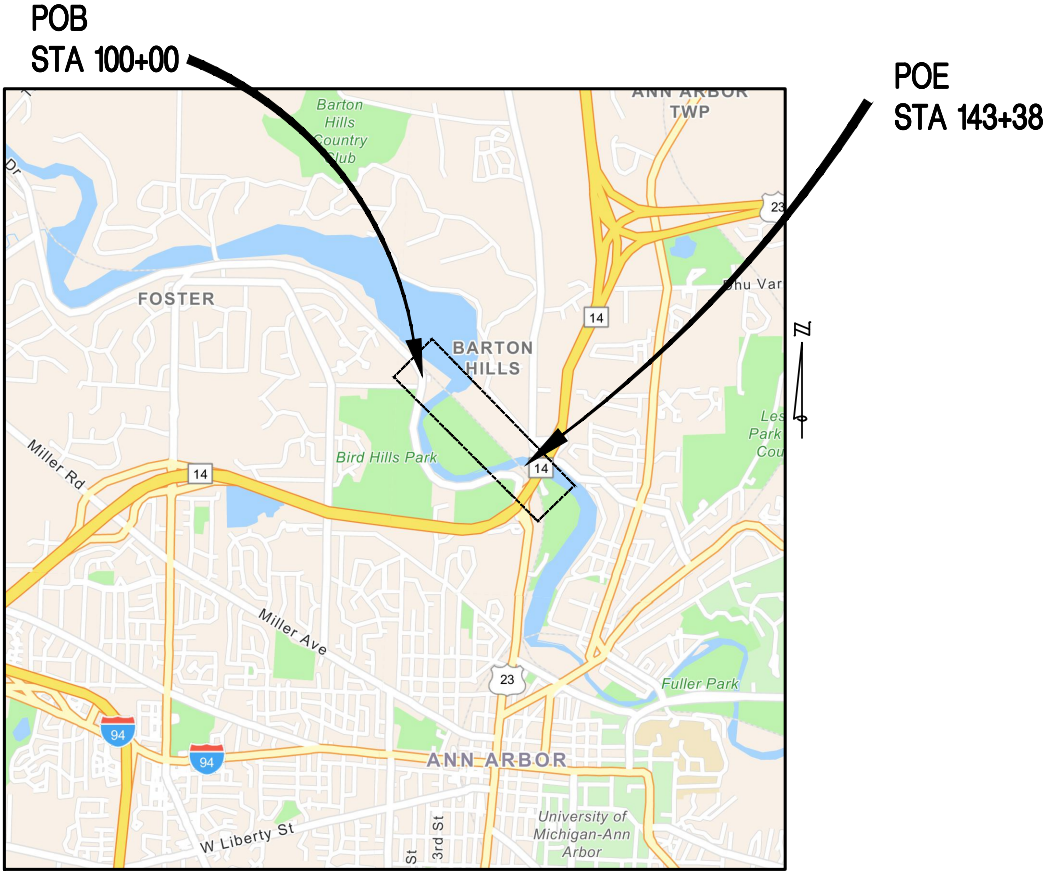
CONCRETE:
GRADE 3500 $f'_c = 3,500$ psi

STEEL REINFORCEMENT $F_y = 60,000$ psi

STRUCTURAL STEEL (INCLUDING H-PILES, SPLICES AND PILE POINTS):
AASHTO M270 GRADE 50 $F_y = 50,000$ psi

UNLESS OTHERWISE SHOWN ON THE PLANS, PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:

CONCRETE CAST AGAINST EARTH: 3 IN.
ALL OTHER UNLESS SHOWN ON PLANS: 2 IN.



LOCATION MAP
N.T.S.

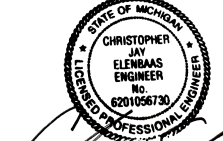
APPLICATION DATE	PERMITS	APPROVAL DATE
9/8/2023	EGLE JOINT PERMIT	
BY CONTRACTOR	CITY OF ANN ARBOR SESC PERMIT	

CONTRACT FOR: 0.60 MILES OF NEW 10' WIDE CONCRETE PATHWAY WITHIN BARTON NATURE AREA, CONNECTING TO TWO EXISTING PEDESTRIAN BRIDGES SPANNING THE HURON RIVER.



Advancing Communities
34000 Plymouth Road | Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427

PREPARED UNDER THE SUPERVISION OF:



CHRISTOPHER ELENBAAS, P.E.

6201056730
Registration No.

9/8/2023
Date

REVISIONS

PROJECT NO. 1022-18-0011	SHEET NO. 1 OF 33
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WATER & SEWER UTILITY SYMBOLS

- EXISTING**
- ST STORM MANHOLE
 - SQUARE CATCH BASIN
 - ⊕ ROUND CATCH BASIN
 - ≡≡≡ CULVERT
 - ⊕ CULVERT W/O END SECTION
 -) CULVERT W/END SECTION
 - S SANITARY MANHOLE
 - ⊙ CLEAN OUT
 - ⊗GW GATE VALVE & WELL
 - GATE VALVE & BOX
 - Ⓜ WATER STOP BOX
 - ⊕ FIRE HYDRANT
 - ⓂP METER PIT
 - ⊕ WATER METER
 - ⊕ SPRINKLER HEAD
 - ⊕ IRRIGATION VALVE

- PROPOSED**
- STORM MANHOLE
 - INLET/CATCH BASIN
 -) CULVERT END SECTION
 - SANITARY MANHOLE
 - ⊗GV&W GATE VALVE & WELL
 - ⊗GV&B GATE VALVE & BOX
 - ⊗TSV&W TAPPING SLEEVE VALVE & WELL
 - ⊗TSV&B TAPPING SLEEVE VALVE & BOX
 - ⊕ FIRE HYDRANT

REAL ESTATE SYMBOLS

- CONTIGUOUS PROPERTY SYMBOL
- XXXX PARCEL NUMBER BOX
- NO ROW IMPACTS

MISCELLANEOUS UTILITY SYMBOLS

- EXISTING**
- ↖ GUY WIRE
 - ⊕GP GUY POLE
 - ⊕U UTILITY POLE
 - ⊕ UTILITY POLE W/LIGHT
 - ⊕ LIGHT/DECOR LAMP POLE
 - ⊕ FLOOD LIGHT
 - ⊕ GAS VALVE
 - ⊕ GAS VENT
 - ⊕ GAS METER
 - ◇ GAS RISER
 - ⊕ TRAFFIC SIGNAL
 - ⊕ PEDESTRIAN RISER
 - ⊕ TRANSFORMER PAD
 - ⊕ PRIVATE UTILITY MANHOLE
 - R X R RAILROAD CROSSING
 - ⊕ ELECTRIC METER
 - ⊕ PB PHONE BOOTH
 - ⊕ TS TRAFFIC SIGNAL CONTROLLER
 - ⊕ HAND HOLE
 - ⊕ ELECTRIC RISER
 - ⊕ TELEPHONE RISER
 - ⊕ CABLE TV RISER
 - ⊕ MONITORING WELL
 - UNDERGROUND MARKER

MISCELLANEOUS SYMBOLS

- EXISTING**
- ⊕ RIPRAP
 - ↑ SIGN
 - FLOW DIRECTION
 - ⊕ STUMP
 - ⊕ WETLAND
 - ⊕ CONIFEROUS TREE } CL 1 1" TO 5"
 - ⊕ DECIDUOUS TREE } CL 2 6" TO 17"
 - ⊕ CONIFEROUS SHRUB
 - ⊕ DECIDUOUS SHRUB
 - ⊕ SB# SOIL BORING
 - ⊕ SECTION CORNER
 - MONUMENT
 - IRON ROD/PIPE
 - ⊕ PK PK NAIL
 - BM# BENCHMARK
 - △ TP# TRAVERSE POINT
 - ⊕ MAIL/NEWSPAPER BOX
 - ⊕ FP FLAG POLE
 - POST

HAZARDOUS OR FLAMMABLE MATERIAL USED WITH UNDERGROUND GAS & ELECTRICAL LINES

CAUTION - CRITICAL UNDERGROUND UTILITY USED WITH TELEPHONE & FIBER OPTIC LINES

- PROPOSED**
- ⊕ RIPRAP
 - ↑, ↓, ←, → SIGN
 - FLOW DIRECTION
 - ⊕ WM SAN STM STRUCTURE NUMBER
 - ⊕ ADA SIDEWALK RAMP
 - ⊕ GRAVEL

UTILITY PATTERN

- EXISTING**
- ELEC --- ELECTRICAL *
 - 6" (COMPANY) GAS --- GAS/OIL
 - (COMPANY) CABLE/TEL --- CABLE/TELEPHONE *
 - FIBER OPTIC --- FIBER OPTIC *
 - 12" WM --- WATER
 - 12" SAN --- SANITARY
 - 12" STM --- STORM
- PROPOSED**
- 12" --- STORM/SANITARY/WATER
 - 12" --- PRIMARY UTILITY WILL HAVE A CONTINUOUS LIFESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LIFESTYLE
- *OH = OVERHEAD, UG = UNDERGROUND

ROW PATTERN

- EXISTING**
- ROW --- ROW
 - SECTION --- SECTION
 - PROPERTY/PARCEL --- PROPERTY/PARCEL
- PROPOSED**
- ROW --- ROW

TOPO PATTERN

- EXISTING**
- HEDGE/TREE --- HEDGE/TREE
 - FENCE --- FENCE
 - GUARDRAIL --- GUARDRAIL
 - CENTERLINE OF DITCH --- CENTERLINE OF DITCH
 - RAILROAD --- RAILROAD
 - WETLAND/EDGE OF WATER --- WETLAND/EDGE OF WATER
 - 100 YEAR FLOODPLAIN --- 100 YEAR FLOODPLAIN
- PROPOSED**
- GRADING LIMIT (SLOPE STAKE) --- GRADING LIMIT (SLOPE STAKE)
 - CENTERLINE OF DITCH --- CENTERLINE OF DITCH
 - TREE LINE --- TREE LINE
 - FENCE --- FENCE
 - EROSION CONTROL, SILT FENCE --- EROSION CONTROL, SILT FENCE
 - EROSION CONTROL, WATTLES --- EROSION CONTROL, WATTLES

REMOVAL LEGEND

- ▨ SIDEWALK REMOVAL
- ▨ HMA SURFACE REMOVAL
- ▨ PAVEMENT REMOVAL
- ▨ COLD MILLING HMA SURFACE
- ▨ HMA BASE CRUSHING AND SHAPING
- ▨ EXCAVATION, EARTH, MODIFIED
- ▨ REMOVE GRAVEL & PLANT SEED
- CURB AND GUTTER, REM
- ⊗ TREE, REM
- S-XXXXXX SALVAGE
- B-XXXXXX BULKHEAD
- A-XXXXXX ABANDON
- R-XXXXXX REMOVE
- ADJ-XXXXXX ADJUST
- REL-XXXXXX RELOCATE
- REC-XXXXXX RECONSTRUCT
- R B/O-XXXXXX REMOVE BY OTHERS
- ADJ B/O-XXXXXX ADJUST BY OTHERS
- REL B/O-XXXXXX RELOCATE BY OTHERS

IF NECESSARY FOR CLARITY

- Ⓢ SALVAGE
- ⓑ BULKHEAD
- Ⓐ ABANDON
- Ⓒ CLEARING
- Ⓡ REMOVE
- ⓇEL RELOCATE
- ⓇEC RECONSTRUCT
- ⓇEL B/O RELOCATE BY OTHERS
- ⓇADJ B/O ADJUST BY OTHERS

SPECIAL LEGEND

- ▨ Riprap, Cobblestone
- ▨ Infiltration Trench, Det A

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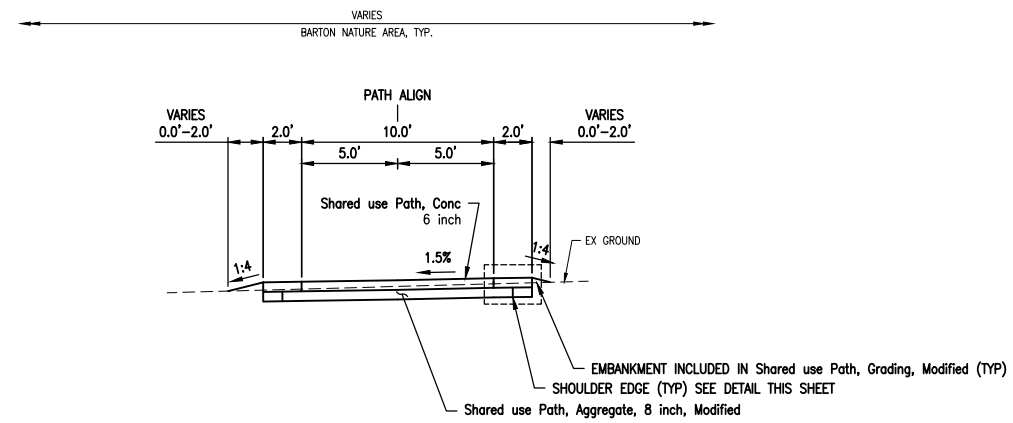
REVISIONS:

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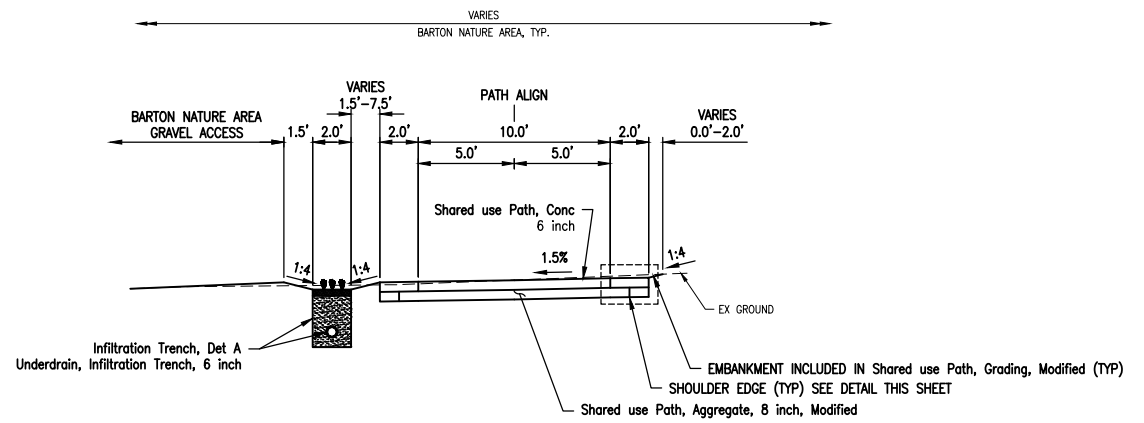
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
LEGEND

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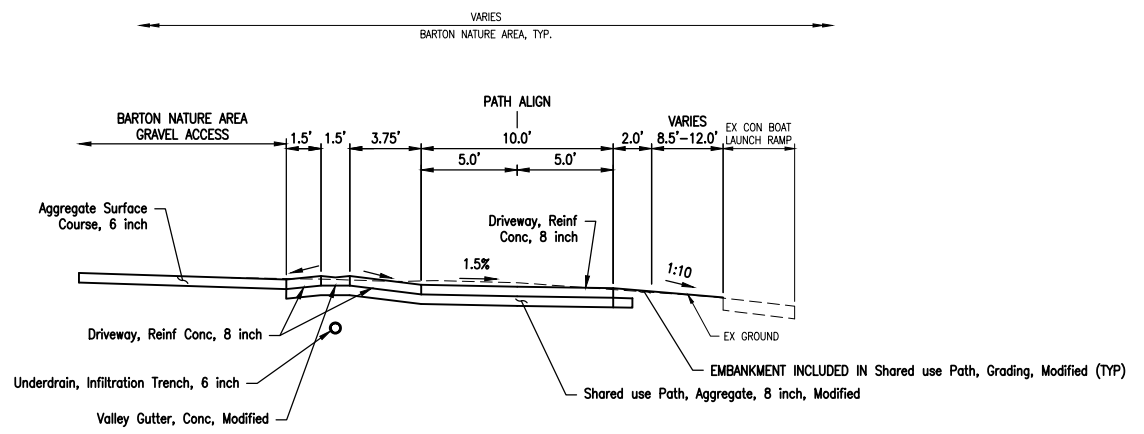
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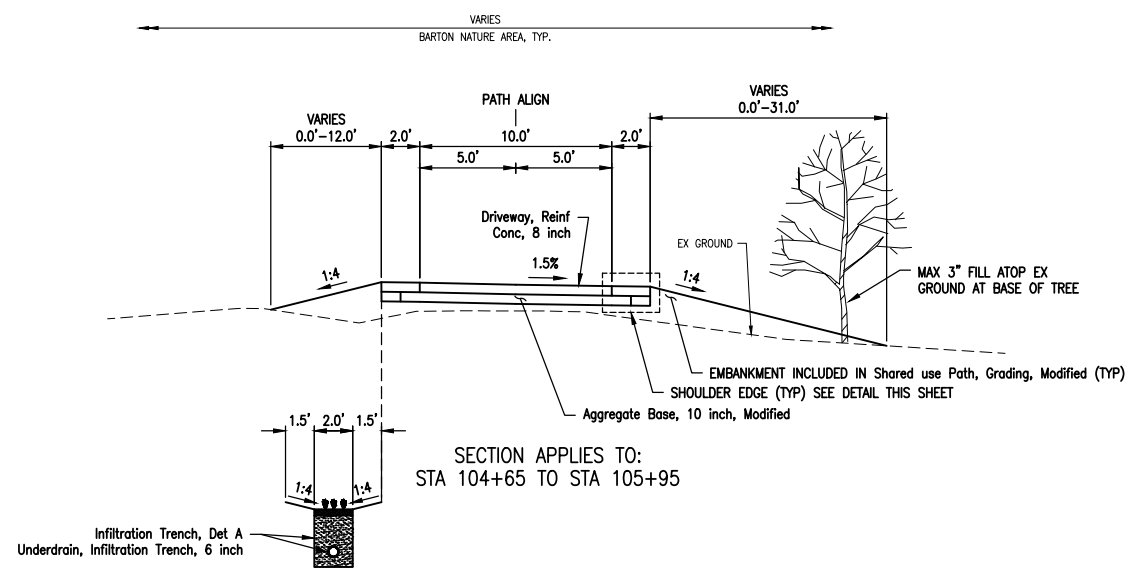
SECTION APPLIES TO:
 STA 100+32 TO STA 102+80



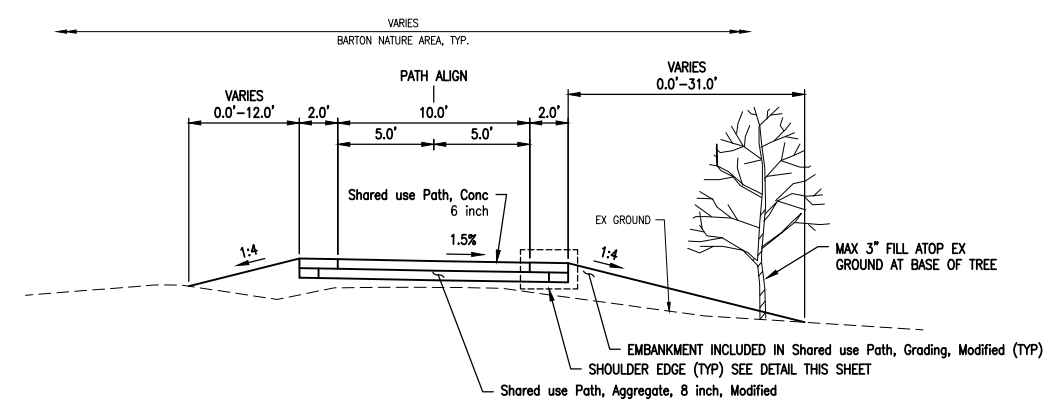
SECTION APPLIES TO:
 STA 102+80 TO STA 104+34



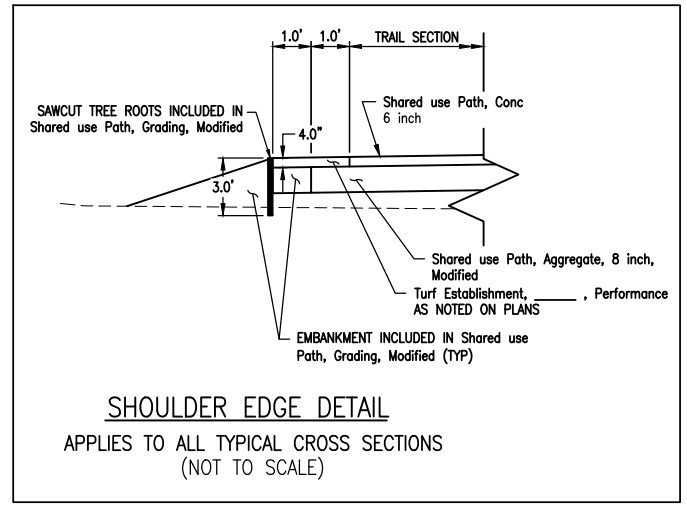
SECTION APPLIES TO:
 STA 104+34 TO STA 104+65



SECTION APPLIES TO:
 STA 104+65 TO STA 104+73



SECTION APPLIES TO:
 STA 105+95 TO STA 106+53



SHOULDER EDGE DETAIL
 APPLIES TO ALL TYPICAL CROSS SECTIONS
 (NOT TO SCALE)

- LEGEND**
- ③ NOTE NUMBER
 - ④C PAVEMENT CALLOUT

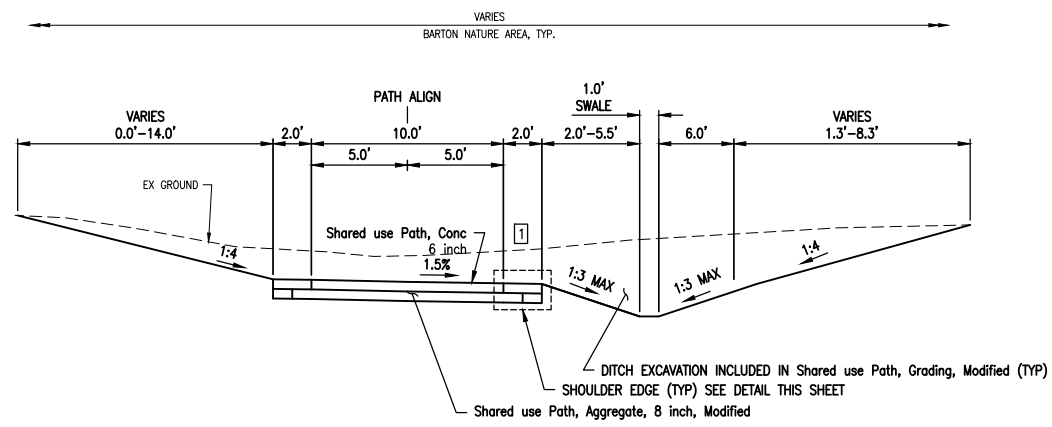
REVISIONS:

DATE	PROJ NUMBER	ENG	PROJ MGR	CAD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	V.	H.	VERT DATUM	HORIZ DATUM	
8/28/2022	1022-16-0011	MB	CE	JK	WASHTENAW	CITY OF ANN ARBOR	1"=40'	1"=4'		NAVD83	NAVD83	NAVD88

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 TYPICAL CROSS SECTIONS

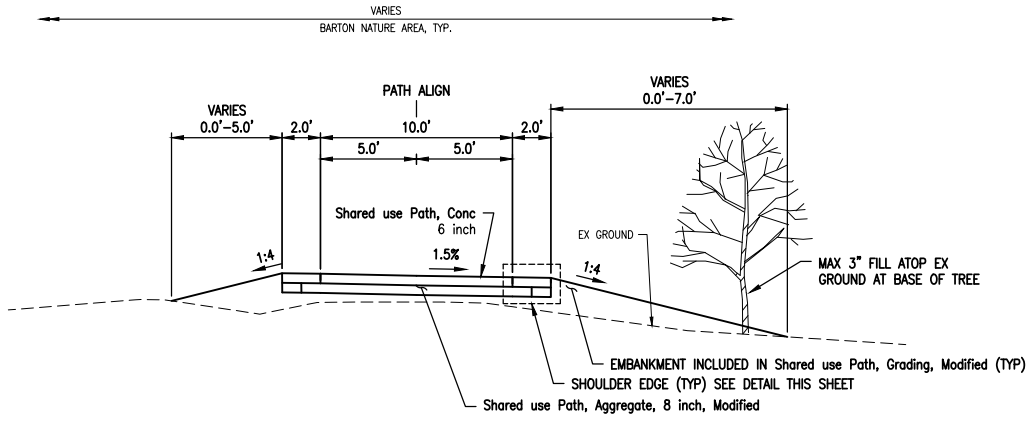
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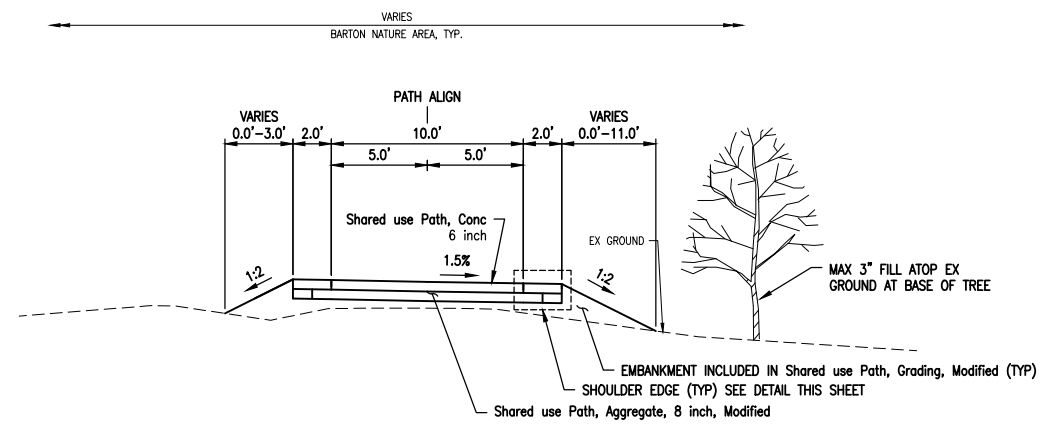


SECTION APPLIES TO:
STA 108+43 TO STA 110+16

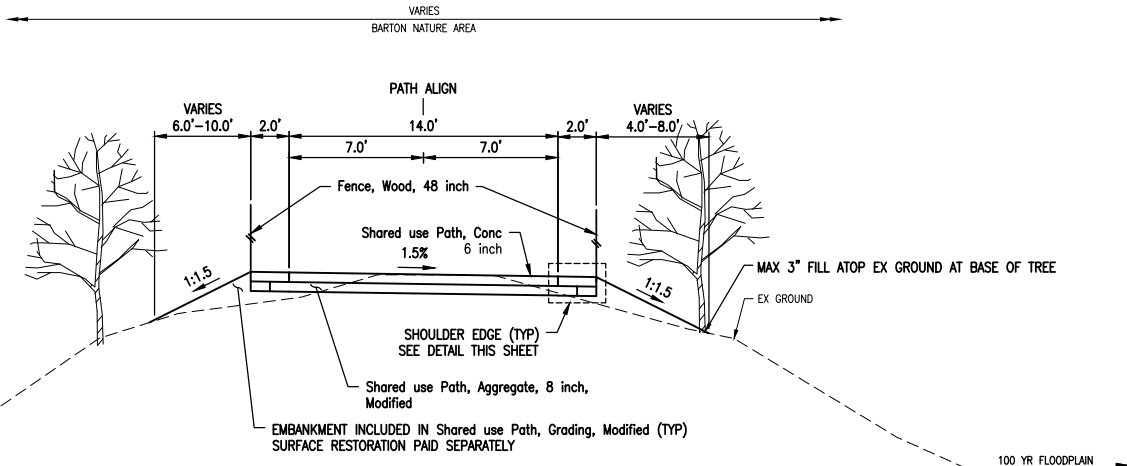
1 CONC RETAINING WALL STA 104+44 TO STA 104+48
SEE DETAILS SHEET 18



SECTION APPLIES TO:
STA 110+16 TO STA 127+66



SECTION APPLIES TO:
STA 127+66 TO STA 130+91



SECTION APPLIES TO:
STA 130+91 STA 131+94

LEGEND

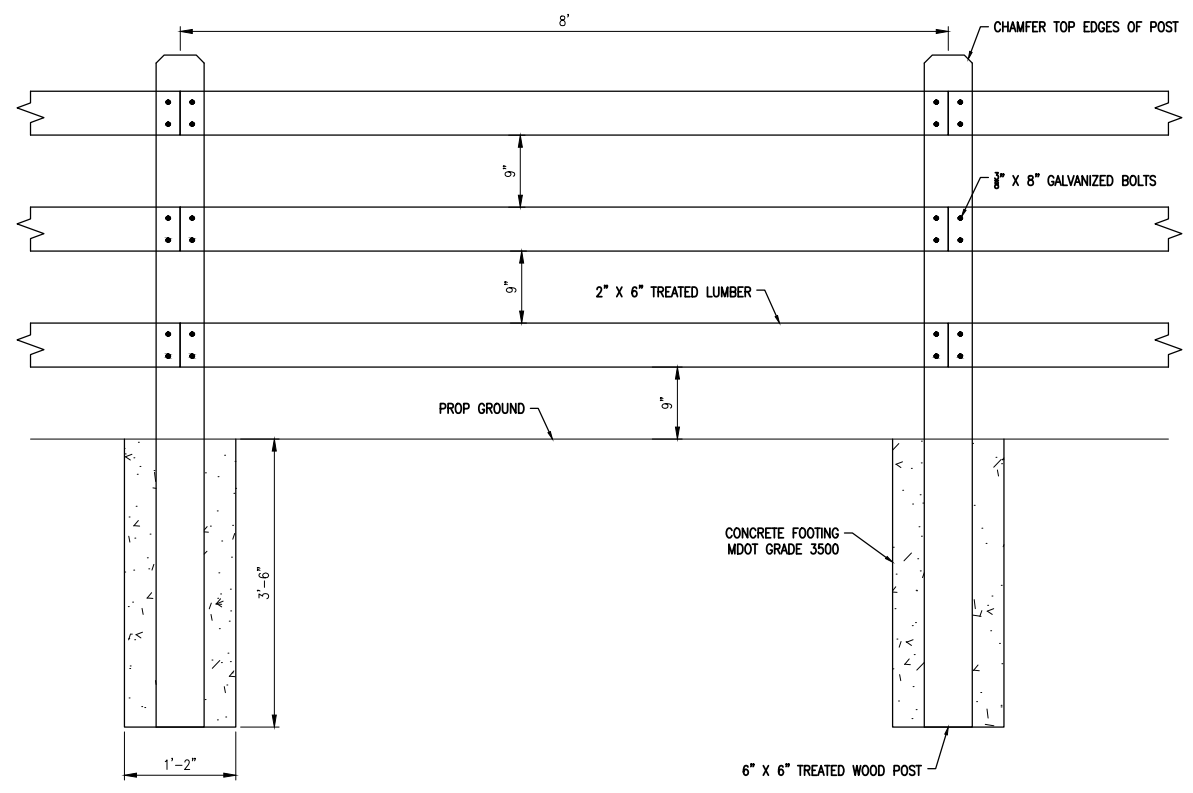
- 1 NOTE NUMBER
- 4C PAVEMENT CALLOUT

DATE	PROJ NUMBER	ENG	PROJ MGR	CAD	COUNTY	CITY/VIL/LAGE/TOWNSHIP	SCALE	VERT DATUM	REVISIONS									
8/28/2022	1022-16-001	MB	CE	JK	WASHTENAW	CITY OF ANN ARBOR	H. 1"=40'	V. 1"=4'	<table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>									

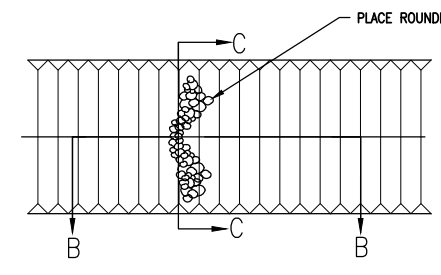
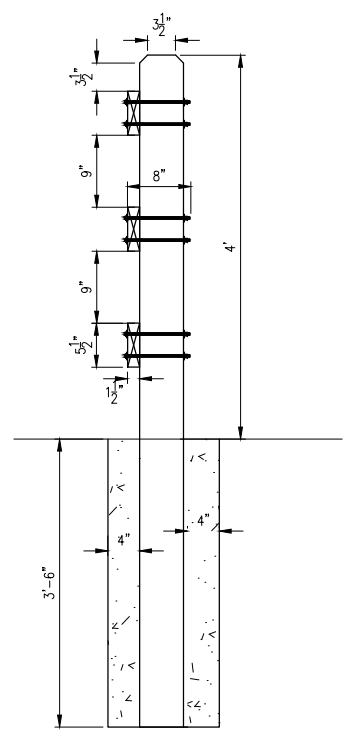
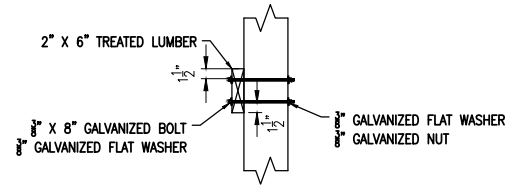
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
TYPICAL CROSS SECTIONS

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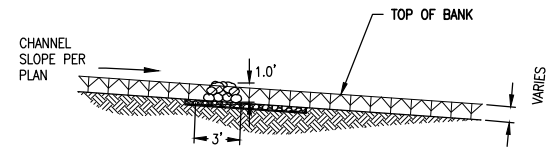
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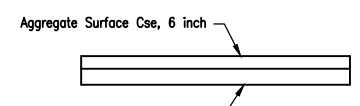
Fence, Wood, 48 inch
 NOT TO SCALE



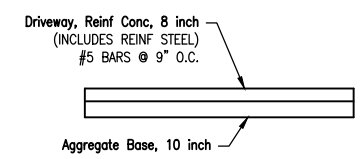
CHECK DAM, COBBLESTONE
 NOT TO SCALE



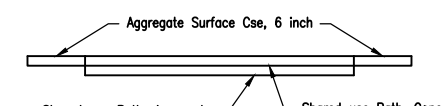
SECTION B-B



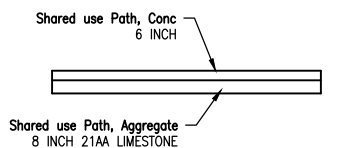
HEAVY DUTY AGGREGATE SURFACE COURSE
 NOT TO SCALE



REINFORCED CONCRETE PAVEMENT
 NOT TO SCALE

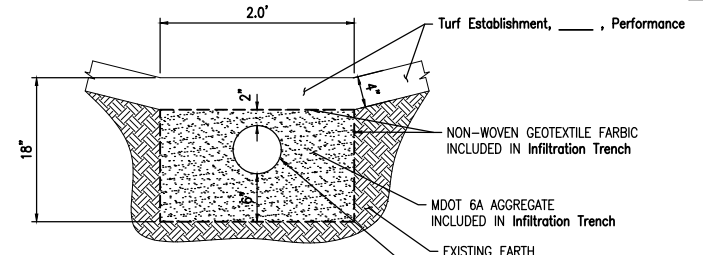


CONCRETE ADA PARKING
 NOT TO SCALE

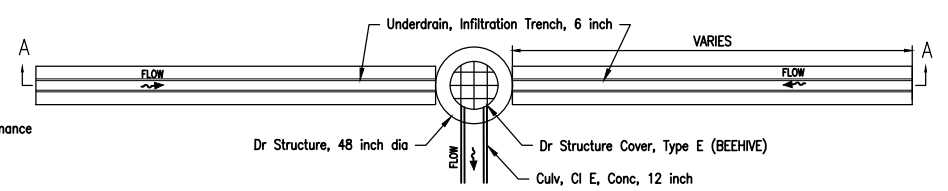


CONCRETE SHARED USE PATH
 NOT TO SCALE

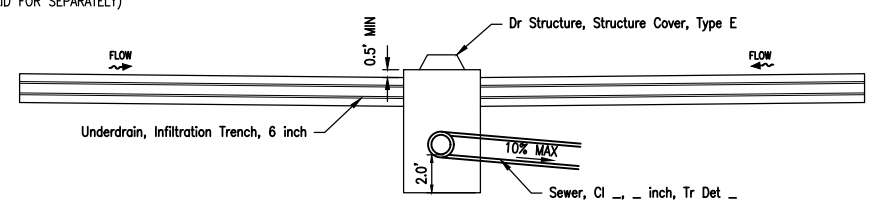
STORM END SECTION SCHEDULE			
END SECTION NAME	END SECTION DETAILS	STATION	OFFSET
1 Dr Structure, 48 inch dia	12" SE INV = 775.40	104+21.40	-9.45' L
ES1 Culv End Section, Conc, 12 inch	12" NW INV = 775.00	104+43.07	24.43' R
ES2 Culv End Section, Conc, 12 inch	12" S INV = 776.31	104+79.20	-9.66' L
ES3 Culv End Section, Conc, 12 inch	12" N INV = 776.00	104+75.35	20.63' R
ES4 Underdrain, Outlet Ending, 6 inch	6" N INV = 774.82	105+24.17	20.31' R
ES5 Culv End Section, Conc, 12 inch	12" S INV = 777.00	105+70.61	-22.54' L
ES6 Culv End Section, Conc, 12 inch	12" N INV = 776.00	105+75.58	20.09' R
ES7 Culv End Section, Conc, 12 inch	12" S INV = 779.14	108+41.11	10.56' R
ES8 Culv End Section, Conc, 12 inch	12" N INV = 779.60	108+52.17	17.18' R
ES9 Culv End Section, Conc, 12 inch	12" SE INV = 783.88	109+52.95	14.49' R
ES10 Culv End Section, Conc, 12 inch	12" NW INV = 784.90	109+72.62	12.88' R
ES11 Culv End Section, Conc, 12 inch	12" SW INV = 788.03	125+94.89	-12.74' L
ES12 Culv End Section, Conc, 12 inch	12" NE INV = 787.80	125+97.83	12.66' R



Infiltration Trench, Det A
 NOT TO SCALE



INFILTRATION TRENCH
 NOT TO SCALE



SECTION A-A
 NOT TO SCALE

REVISIONS:

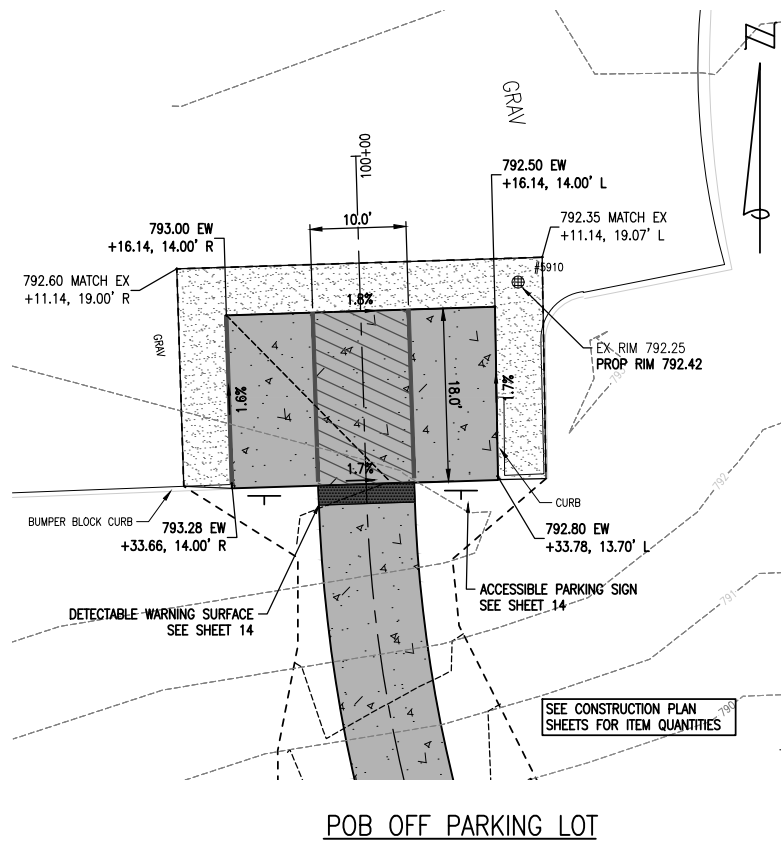
1			
2			
3			
4			
5			
6			

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 SITE DETAILS

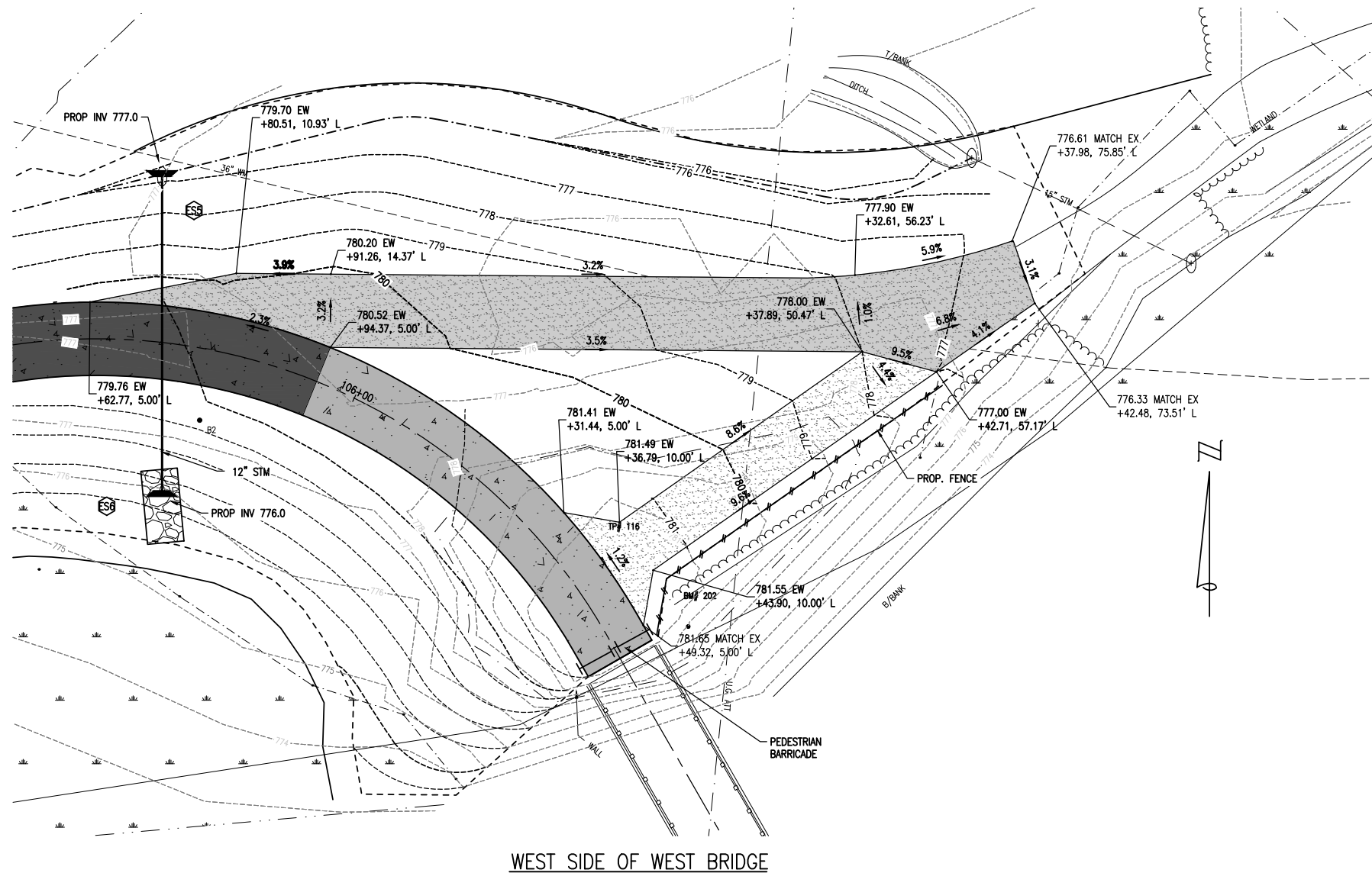
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POB OFF PARKING LOT



WEST SIDE OF WEST BRIDGE

LEGEND

- CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6
- REINFORCED CONCRETE PAVEMENT
SEE DETAIL SHEET 6
- HEAVY DUTY AGGREGATE SURFACE COURSE
SEE DETAIL SHEET 6
- Aggregate Surface Cse, 6 inch, Modified

LEGEND

- TC TOP OF CURB
- EP EDGE OF PAVEMENT
- ES EDGE OF SHOULDER
- G GUTTER
- EW EDGE OF WALK
- T/CAST TOP OF CAST
- HP/LP HIGH POINT/LOW POINT
- (R) RAMP
- (L) LEVEL LANDING



Know what's below.
Call before you dig.

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Livonia, MI 48150
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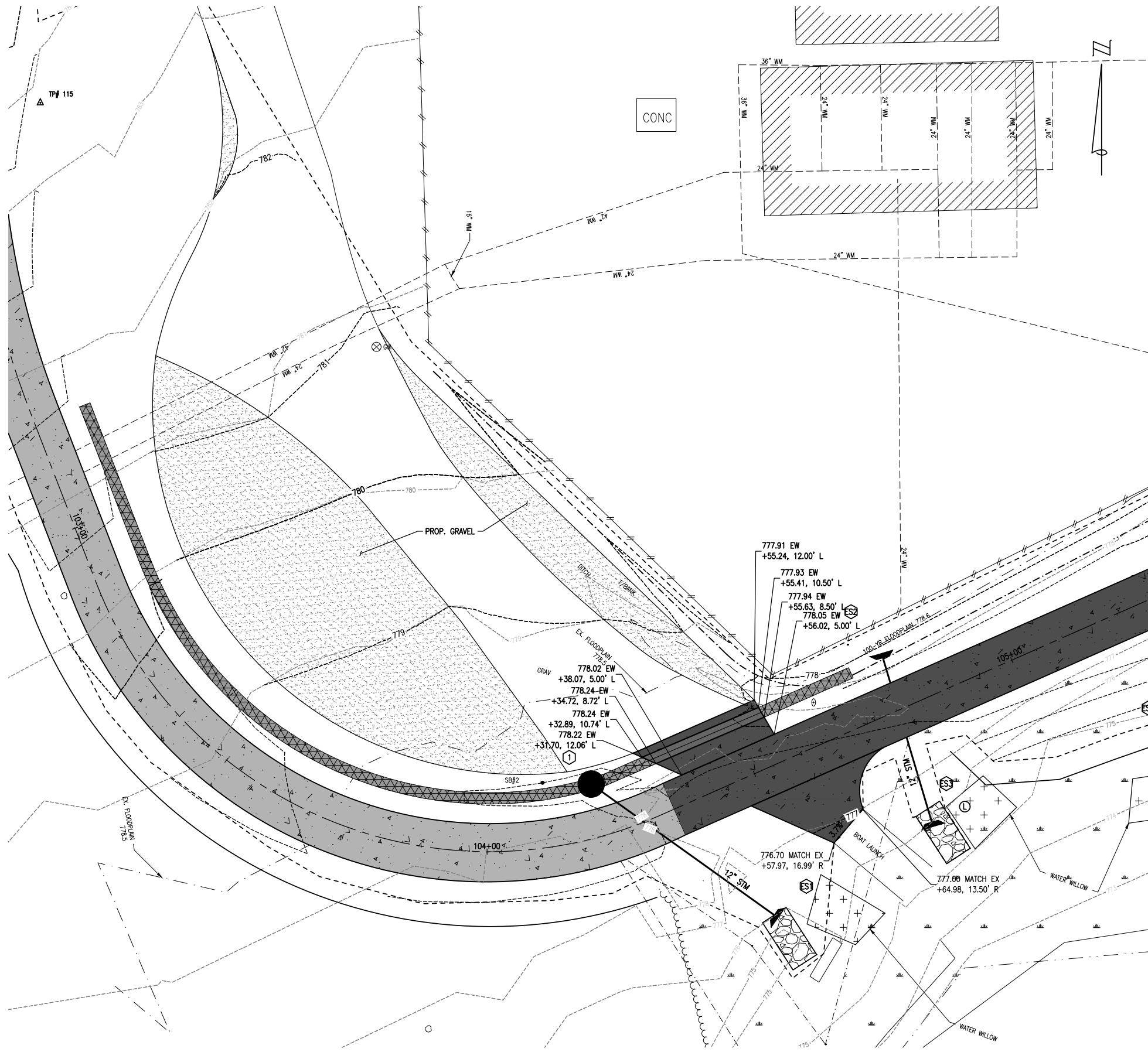
REVISIONS:

CITY/VILLAGE/TOWNSHIP: COUNTY: STATE: SCALE: DATE: SHEET: PROJECT: CITY OF ANN ARBOR

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
GRADING DETAILS

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BARTON NATURE AREA BOAT LAUNCH



LEGEND

	CONCRETE SHARED USE PATH SEE DETAIL SHEET 6
	REINFORCED CONCRETE PAVEMENT SEE DETAIL SHEET 6
	HEAVY DUTY AGGREGATE SURFACE COURSE SEE DETAIL SHEET 6
	Aggregate Surface Cse, 6 inch, Modified

LEGEND

TC	TOP OF CURB
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
G	GUTTER
EW	EDGE OF WALK
T/CAST	TOP OF CAST
HP/LP	HIGH POINT/LOW POINT
Ⓡ	RAMP
Ⓛ	LEVEL LANDING



Know what's below.
Call before you dig.

REVISIONS: _____

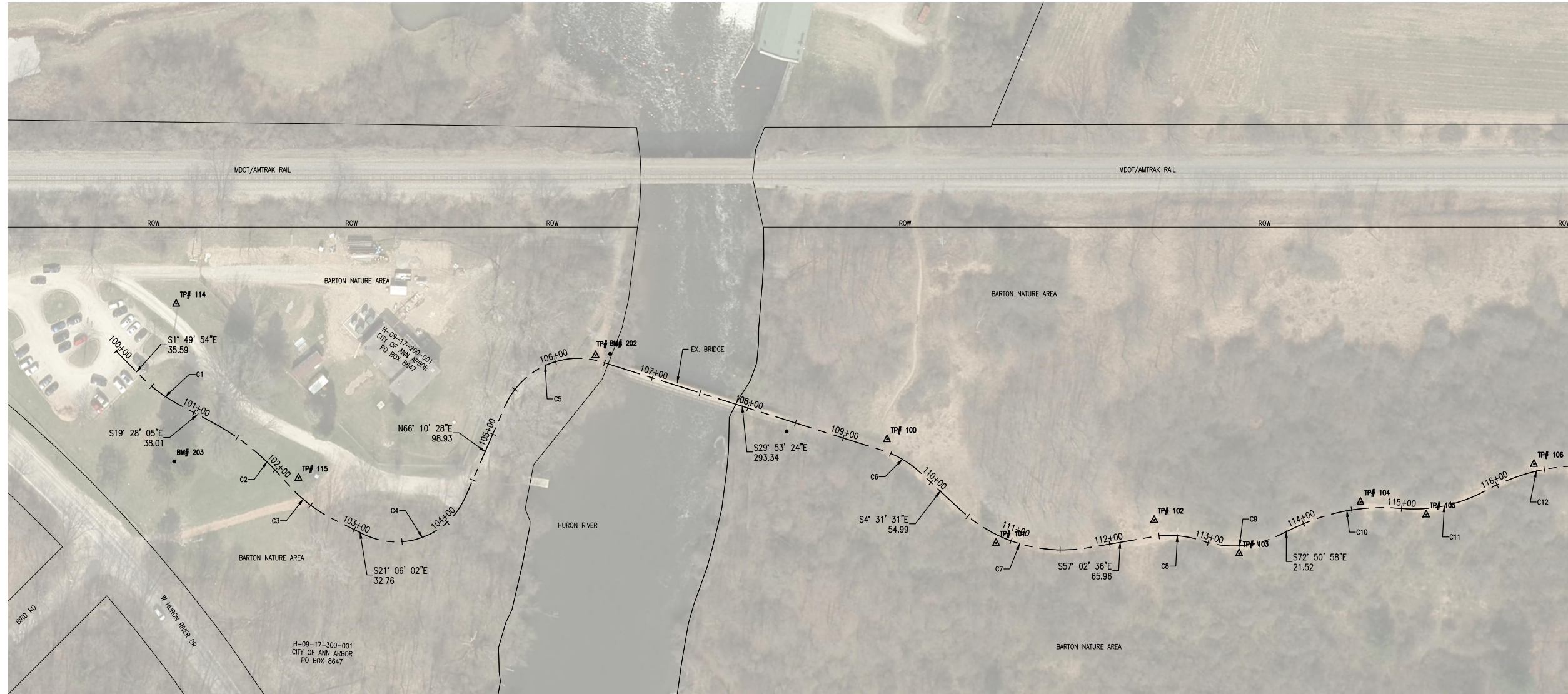
CITY/TOWNSHIP: _____ VERT DATUM: _____
COUNTY: _____ HORIZ DATUM: _____
CITY OF ANN ARBOR: _____ DATE: 8/28/2022
SCALE: 1"=10'
SHEET: _____

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
GRADING DETAILS

9
OF 33

DRAWING PATH: P:\1000 - 1999\1022\10010_BandemerBarton_TrailDrawings\Civil\Grading\10010GRD.dwg Sep 20, 2023 - 12:04pm

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ALIGNMENT CURVE DATA													
Curve #	Δ	R (Ft)	L (Ft)	T	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING
C1	17°38'11"	150.000	46.172	23.27	100+35.59	295252.87	13288320.76	100+58.86	295229.62	13288321.51	100+81.76	295207.68	13288329.26
C2	20°52'30"	250.000	91.084	46.05	101+19.77	295171.84	13288341.93	101+65.82	295128.42	13288357.28	102+10.85	295082.38	13288356.15
C3	22°30'27"	150.000	58.925	29.85	102+18.61	295074.63	13288355.96	102+48.45	295044.79	13288355.22	102+77.53	295016.95	13288365.97
C4	92°43'30"	74.879	121.180	78.53	103+10.29	294986.38	13288377.76	103+88.82	294913.12	13288406.03	104+31.47	294944.84	13288477.87
C5	83°56'09"	80.000	117.196	71.95	105+30.40	294984.81	13288568.37	106+02.35	295013.87	13288634.18	106+47.59	294951.49	13288670.04
C6	25°21'53"	100.000	44.270	22.50	109+40.94	294697.17	13288816.22	109+63.44	294677.66	13288827.44	109+85.20	294655.22	13288829.21
C7	52°31'05"	150.000	137.492	74.00	110+40.19	294600.41	13288833.55	111+14.19	294526.64	13288839.39	111+77.69	294486.38	13288890.148
C8	28°20'35"	100.000	49.468	25.25	112+43.65	294450.50	13288956.83	112+68.90	294436.76	13288978.02	112+93.12	294414.61	13288990.15
C9	44°08'58"	100.000	77.055	40.55	112+93.12	294414.61	13288990.15	113+33.67	294379.04	13289009.62	113+70.17	294367.08	13289048.37
C10	30°36'57"	200.000	106.869	54.74	113+91.69	294360.73	13289068.93	114+46.44	294344.59	13289121.24	114+98.56	294304.06	13289158.04
C11	33°57'49"	150.000	88.917	45.81	114+98.56	294304.06	13289158.04	115+44.37	294270.14	13289188.83	115+87.48	294259.21	13289233.31
C12	31°02'32"	200.000	108.358	55.54	115+87.48	294259.21	13289233.31	116+43.02	294245.96	13289287.26	116+95.84	294206.79	13289326.64



Know what's below.
 Call before you dig.

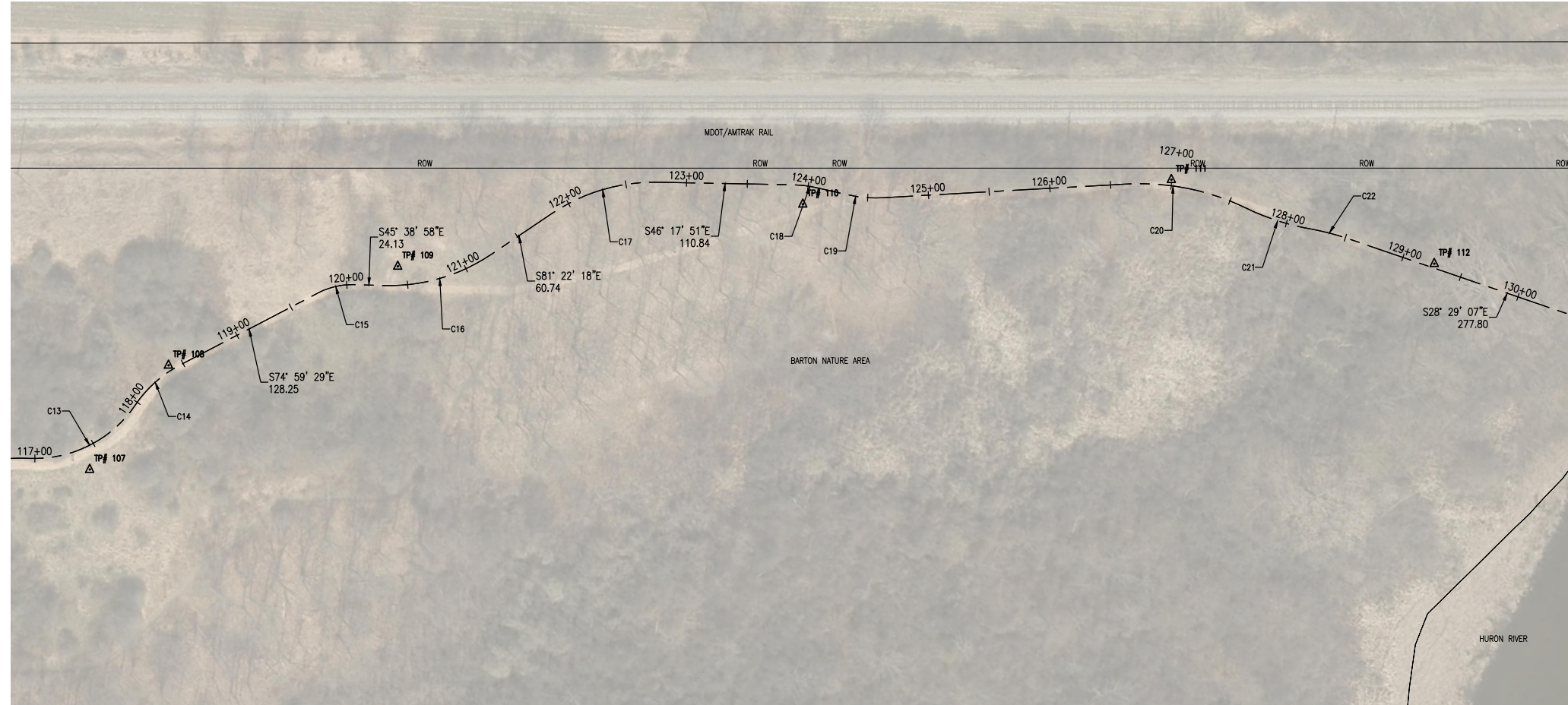
DATE: 6/28/2022
 PROJECT NUMBER: 1022-18-001
 ENGINEER: MB
 PROJECT MANAGER: CE
 COUNTY: WASHTENAW
 CITY/VILLAGE/TOWNSHIP: CITY OF ANN ARBOR
 SCALE: 1"=40'
 VERT DATUM: NAVD83
 HORIZ DATUM: NAD83

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 ALIGNMENT SHEET

DRAWING PATH: P:\1000_1899\1022180010_BorderArea-Barton_Trail\Drawings\Civil\Misc\180010ALN.dwg Sep 28, 2023 - 12:04pm

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DRAWING PATH: P:\000_1999\1022180010_Borderline-Barton_Trail\Drawings\Civil\Misc\180010041.dwg Sep 26, 2023 - 12:04pm



ALIGNMENT CURVE DATA													
Curve #	Δ	R (Ft)	L (Ft)	T	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING
C13	58°15'38"	100.000	101.684	55.73	116+95.84	294206.79	13289326.64	117+51.56	294167.49	13289366.15	117+97.52	294180.42	13289420.36
C14	28°25'27"	100.000	49.609	25.33	117+97.52	294180.42	13289420.36	118+22.85	294186.30	13289444.99	118+47.13	294179.74	13289469.45
C15	29°20'31"	60.000	30.727	15.71	119+75.38	294146.53	13289593.33	119+91.09	294142.46	13289608.50	120+06.11	294131.48	13289619.74
C16	35°43'20"	150.000	93.520	48.34	120+30.24	294114.61	13289636.99	120+78.57	294080.82	13289671.55	121+23.76	294073.57	13289719.34
C17	35°04'26"	150.000	91.823	47.40	121+84.49	294064.46	13289779.39	122+31.89	294057.35	13289826.26	122+76.32	294024.60	13289860.53
C18	11°39'36"	100.000	20.351	10.21	123+87.15	293948.02	13289940.65	123+97.36	293940.96	13289948.04	124+07.50	293932.56	13289953.84
C20	29°08'57"	200.000	101.749	52.00	126+62.84	293762.83	13290143.06	127+14.84	293729.84	13290183.26	127+64.59	293681.45	13290202.30
C21	15°59'58"	200.000	55.848	28.11	127+64.59	293681.45	13290202.30	127+92.70	293655.30	13290212.59	128+20.44	293632.99	13290229.69
C22	8°59'32"	200.000	31.389	15.73	128+20.44	293632.99	13290229.69	128+36.16	293620.51	13290239.26	128+51.83	293606.69	13290246.76

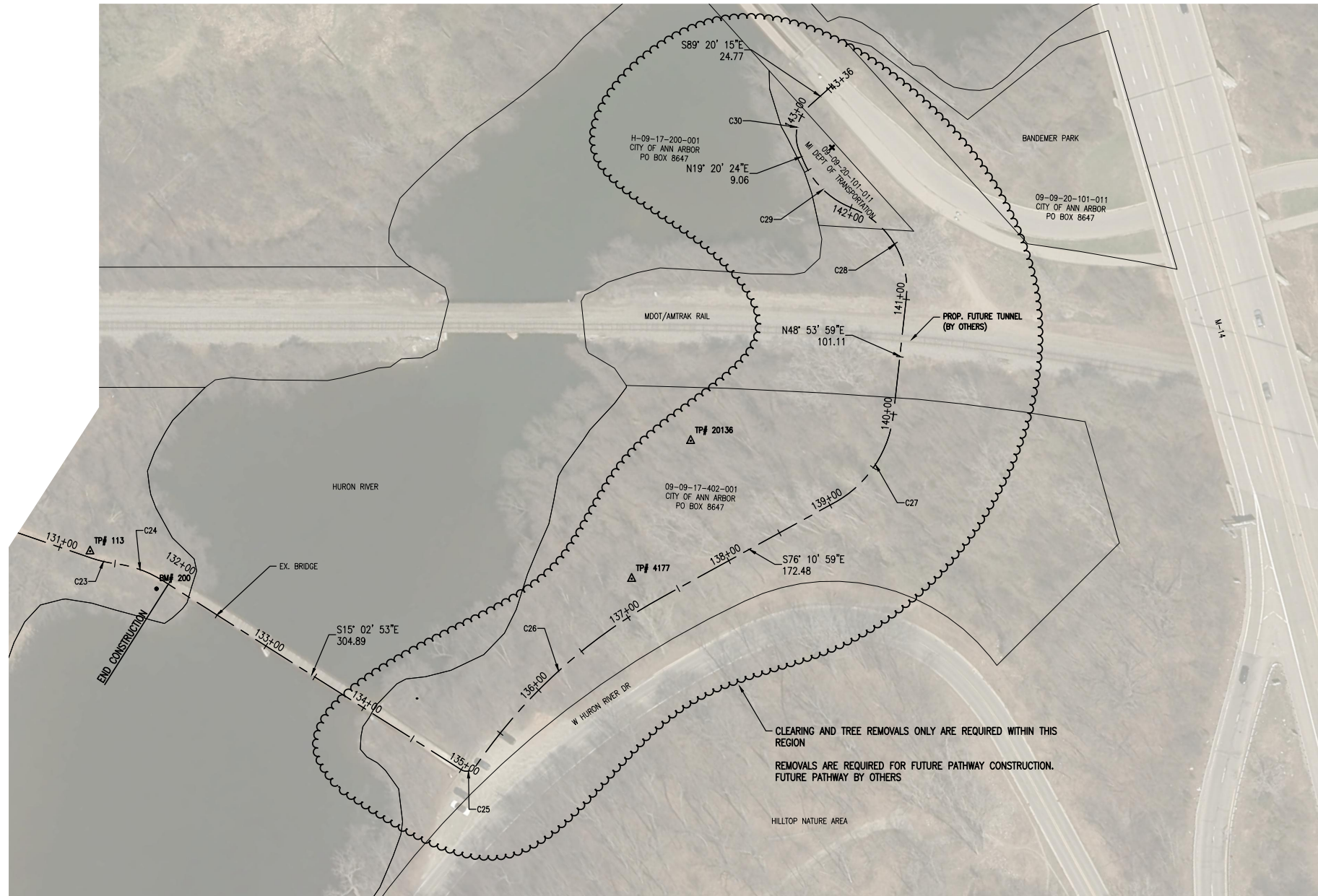
REVISIONS

DATE	PROJ NUMBER	ENG	MB	PROJ LEAD	CE	CADD	JK	COUNTY	WASHTENAW	CITY/TOWNSHIP	CITY OF ANN ARBOR	SCALE	H: 1"=40'	V: N/A	HORIZ DATUM	NAD83	VERT DATUM	NAVD83
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC																		
BARTON NATURE AREA BORDER TO BORDER TRAIL																		
ALIGNMENT SHEET																		



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DRAWING PATH: P:\000_1999\1022180010_Bandemer-Prs\Trail\Drawings\Civil\Misc\18001041.dwg Sep 29, 2023 - 12:04pm



ALIGNMENT CURVE DATA													
Curve #	Δ	R (Ft)	L (Ft)	T	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING
C23	11°51'02"	100.000	20.683	10.38	131+29.62	293362.52	13290379.25	131+40.00	293353.40	13290384.20	131+50.31	293345.49	13290390.92
C24	25°17'15"	100.000	44.135	22.43	131+50.31	293345.49	13290390.92	131+72.74	293328.39	13290405.44	131+94.44	293306.72	13290411.26
C25	91°37'02"	9.151	14.633	9.41	134+99.33	293012.29	13290490.42	135+08.74	293003.06	13290492.27	135+13.96	293005.16	13290501.44
C26	27°05'29"	465.282	220.000	112.10	135+13.96	293005.16	13290501.44	136+26.06	293030.77	13290610.58	137+33.96	293003.86	13290719.40
C27	53°34'35"	100.000	93.509	50.49	139+06.44	292962.67	13290886.89	139+56.93	292951.76	13290936.18	139+99.95	292984.95	13290974.23
C28	74°57'56"	75.000	98.130	57.51	141+01.06	293051.42	13291050.42	141+58.57	293089.23	13291093.76	141+99.19	293140.89	13291068.49
C29	45°24'22"	75.000	59.436	31.38	141+99.19	293140.89	13291068.49	142+30.57	293169.08	13291054.70	142+58.63	293198.69	13291065.09
C30	71°19'21"	35.000	43.569	25.11	142+67.69	293207.23	13291068.09	142+92.80	293230.93	13291076.41	143+11.25	293230.64	13291101.52

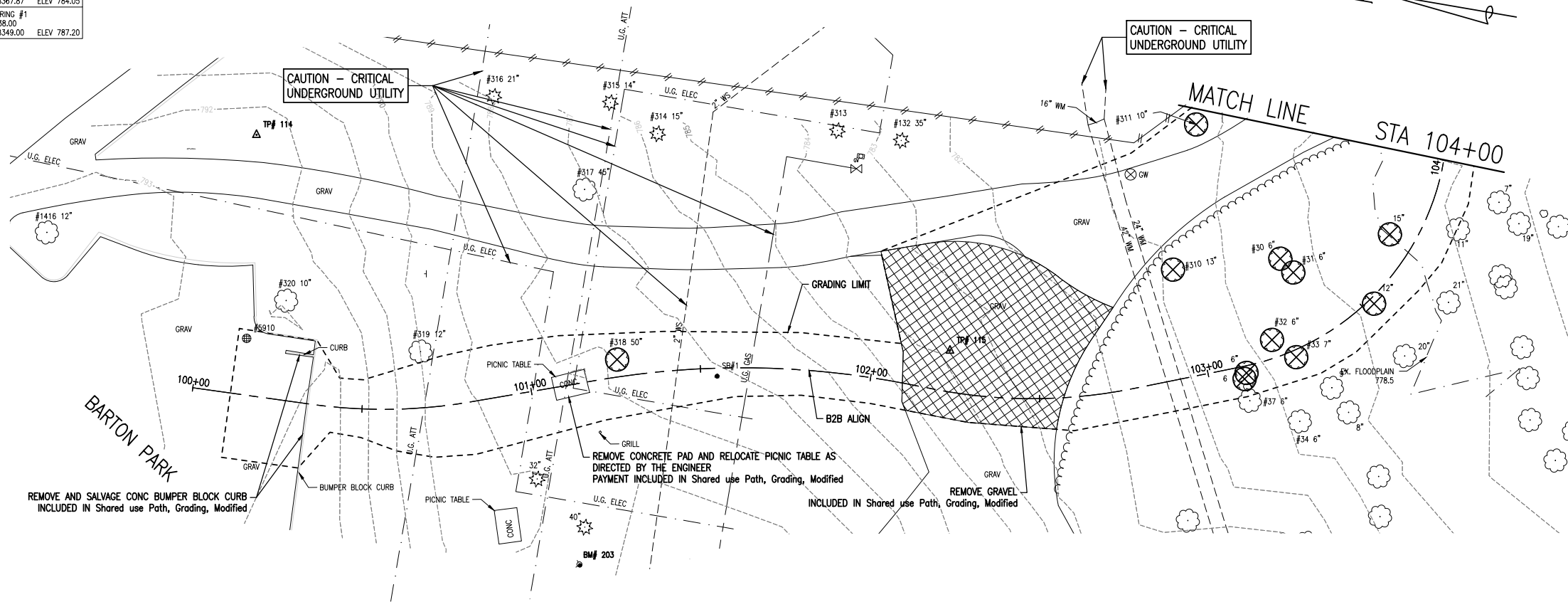
REVISIONS



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JOB BENCHMARK #203 LOCATED ON HYDRANT DETAILS UNKNOWN ELEV 790.792	
TRAVERSE POINT #114 N 295282.56 E 13288395.75 ELEV 792.76	
TRAVERSE POINT #115 N 295071.64 E 13288367.87 ELEV 784.05	
SOIL BORING #1 N 295138.00 E 13288349.00 ELEV 787.20	

REMOVAL PLAN



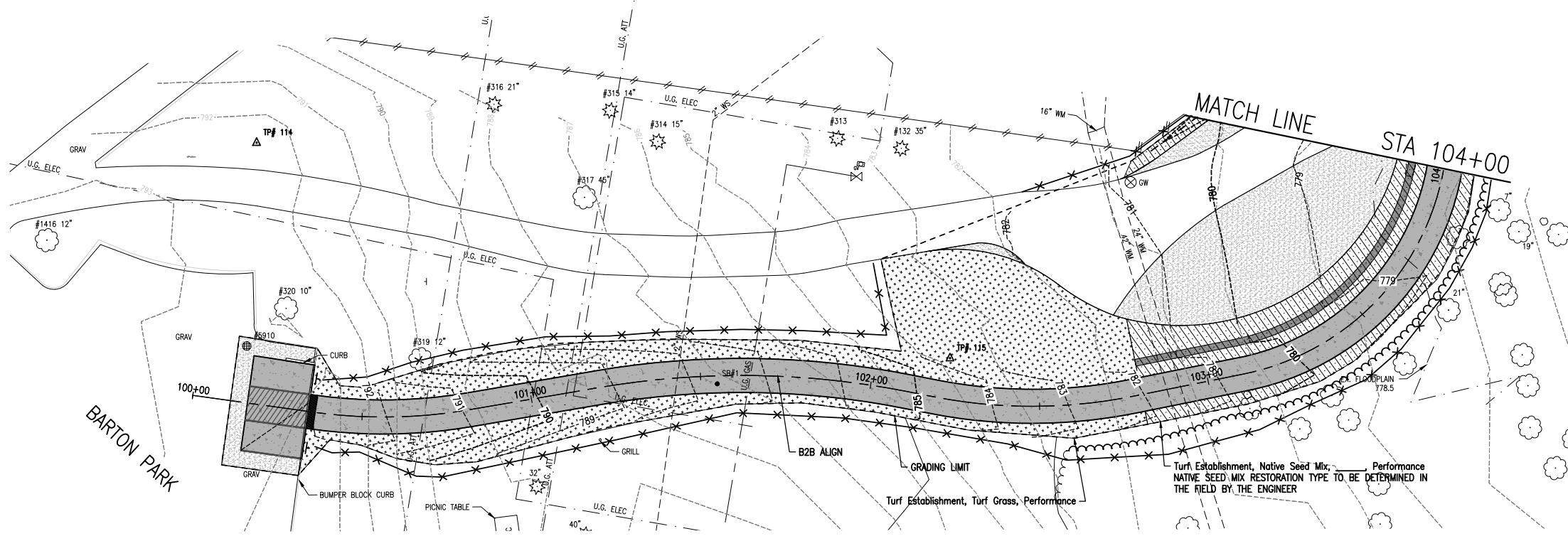
QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 37 inch or Larger
9	Ea	Tree, Rem, 6 inch to 18 inch

LEGEND

- Tree, Rem, _____
- Erosion Control, Inlet Protection, Fabric Drop
- Erosion Control, Silt Fence
- Check Dam, Cobblestone
- Turf Establishment, Turf Grass, Performance
- Turf Establishment, Native Seed Mix, _____, Performance
- CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6
- Aggregate Surface Cse, 6 inch, Modified

RESTORATION PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
576	Ft	Erosion Control, Silt Fence
539	Syd	Turf Establishment, Turf Grass, Performance
192	Syd	Turf Establishment, Native Seed Mix, _____, Performance



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34000 Plymouth Road
Livonia, MI 48150
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REVISIONS:

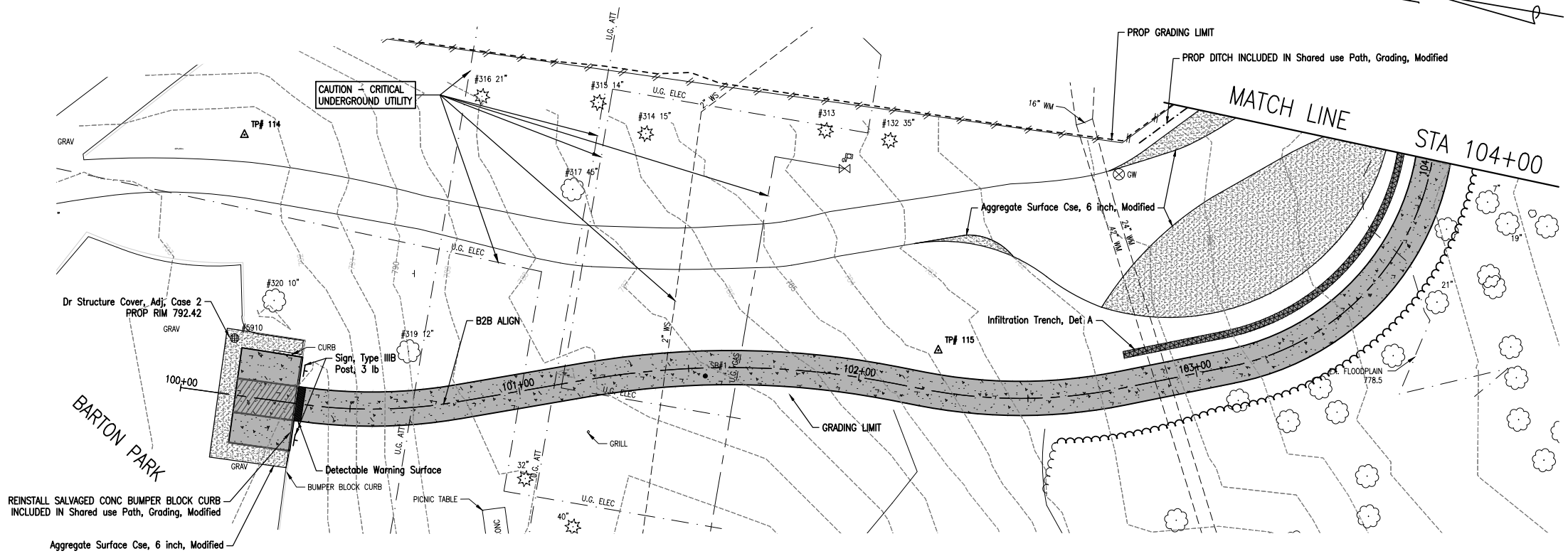
NO.	DATE	DESCRIPTION
1		
2		
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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
REMOVAL, GRADING AND EROSION CONTROL PLAN
POB TO STA 104+00

DRAWING PATH: P:\1000_1999\1022\10010_BandemerBarton_TrailDrawings\CivilPlans_Constr\10010GRD_RES_01.dwg Sep 20, 2023 - 12:05pm

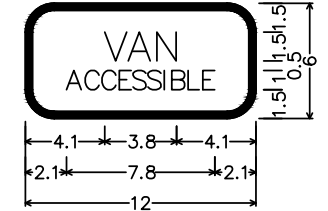
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TRAVERSE POINT #114
N 295282.56
E 13288395.75 ELEV 792.76
TRAVERSE POINT #115
N 295071.64
E 13288367.87 ELEV 784.05
SOIL BORING #1
N 295138.00
E 13288349.00 ELEV 787.20



R7-8
1.5" Radius, 0.4" Border, 0.4" Indent, Green on White;
"RESERVED", C 2K 50% spacing;
"PARKING", C 2K 66% spacing;
Rounded Rectangle 0.5" Radius Blue;
"ONLY", C 2K;

R7-8 (12" X 18")
1.5 SFT TYPE III B SIGN
1- 3# POST (15 FT)



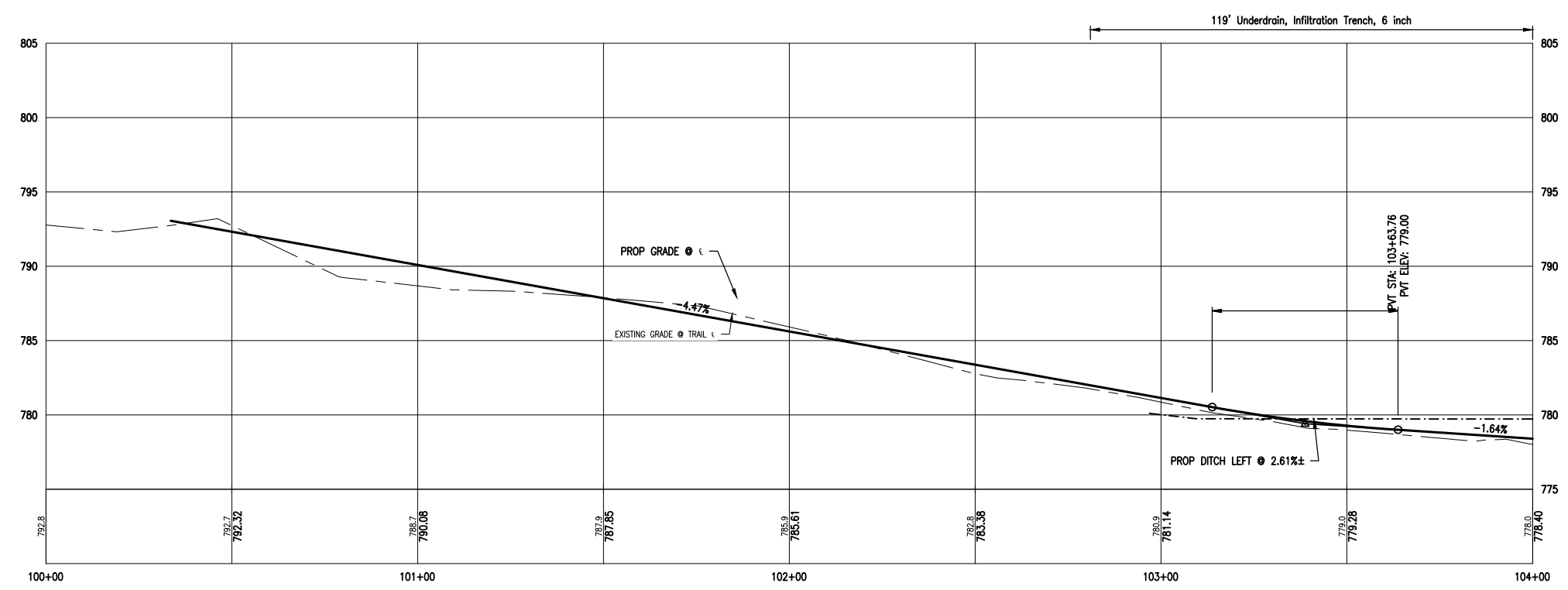
R7-8p_12x6
1.5" Radius, 0.4" Border, White on Blue;
"VAN", D 2K specified length;
"ACCESSIBLE", D 2K specified length;

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
119	Ft	Infiltration Trench, Det A
310	Syd	Aggregate Surface Cse, 6 inch, Modified
1	Ea	Dr Structure Cover, Adj, Case 2
119	Ft	Underdrain, Infiltration Trench, 6 inch
10	Ft	Detectable Warning Surface
488	Syd	Shared use Path, Conc
389	Ft	Shared use Path, Grading, Modified
547	Syd	Shared use Path, Aggregate, 8 inch, Modified
30	Ft	Post, Steel, 3 lb
4	Sft	Sign, Type III B
143	Ft	Pavt Mrkg, Waterborne, for Rest Areas, Parks, and Lots, 4 inch, Blue

LEGEND

[Pattern]	CONCRETE SHARED USE PATH SEE DETAIL SHEET 6
[Pattern]	REINFORCED CONCRETE PAVEMENT SEE DETAIL SHEET 6
[Pattern]	HEAVY DUTY AGGREGATE SURFACE COURSE SEE DETAIL SHEET 6
[Pattern]	Aggregate Surface Cse, 6 inch, Modified



REVISIONS:

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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
CONSTRUCTION PLAN
POB TO STA 104+00

DRAWING PATH: P:\1000_1999\1022\80010_BandemerBarton_TrailDrawings\CivilPlans_Constr\80010CONV.dwg Sep 20, 2023 - 12:05pm

JOB BENCHMARK #202
 SET BOXED 'X' ON SE/COR OF
 HEADWALL N/SIDE OF HURON RIVER
 ELEV 781.55

TRAVERSE POINT #116
 N 294961.04
 E 13288669.58 ELEV 781.52

SOIL BORING #2
 N 294950.00
 E 13288457.00 ELEV 778.19

SOIL BORING #3
 N 294989.00
 E 13288613.00 ELEV 776.89

REMOVAL PLAN

CAUTION - CRITICAL
 UNDERGROUND UTILITY

QUANTITIES THIS SHEET

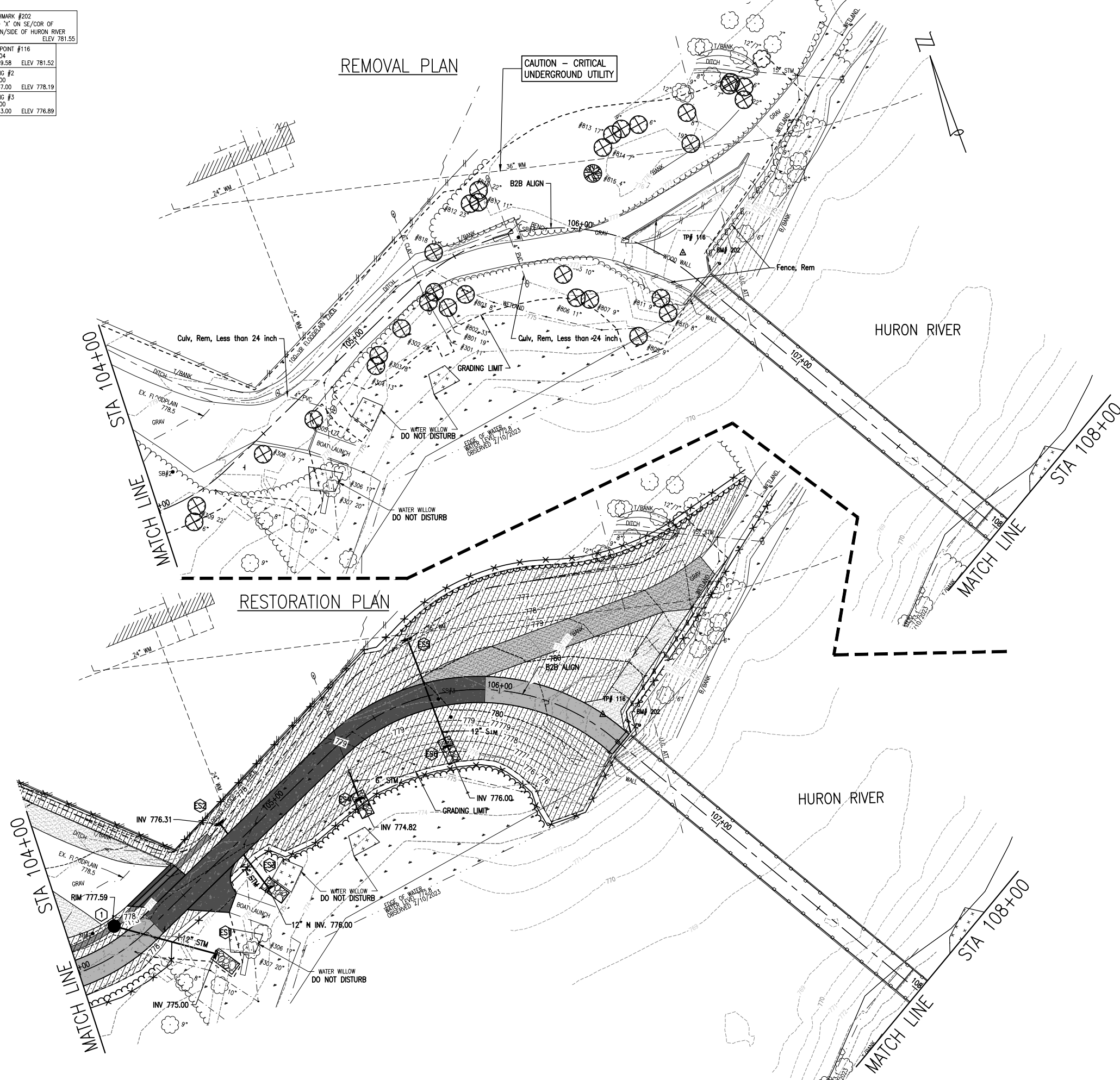
TOTAL	UNIT	DESCRIPTION
8	Ea	Tree, Rem, 19 inch to 36 inch
23	Ea	Tree, Rem, 6 inch to 18 inch
2	Ea	Culv, Rem, Less than 24 inch
78	Ft	Fence, Rem



ARCHITECTS ENGINEERS PLANNERS









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 Livonia, MI 48150
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RESTORATION PLAN

LEGEND

-  Tree, Rem, _____
-  Erosion Control, Inlet Protection, Fabric Drop
-  Erosion Control, Silt Fence
-  Turf Establishment, Native Seed Mix, _____, Performance
-  CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6
-  REINFORCED CONCRETE PAVEMENT
SEE DETAIL SHEET 6
-  HEAVY DUTY AGGREGATE SURFACE COURSE
SEE DETAIL SHEET 6
-  Aggregate Surface Cse, 6 inch, Modified

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
757	Ft	Erosion Control, Silt Fence
977	Syd	Turf Establishment, Native Seed Mix, _____, Performance

DRAWING PATH: P:\1000_19891022\100010_BandemerBarton_TrailDrawings\CivilPlans_Constr\100010GRD_RES_01.dwg Sep 20, 2023 - 12:05pm

REVISIONS:

DATE

BY

NO

DATE

BY

NO

DATE

BY

NO

DATE

BY

NO

DATE

BY

NO

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA 104+00 TO STA 108+00



Know what's below.
 Call before you dig.

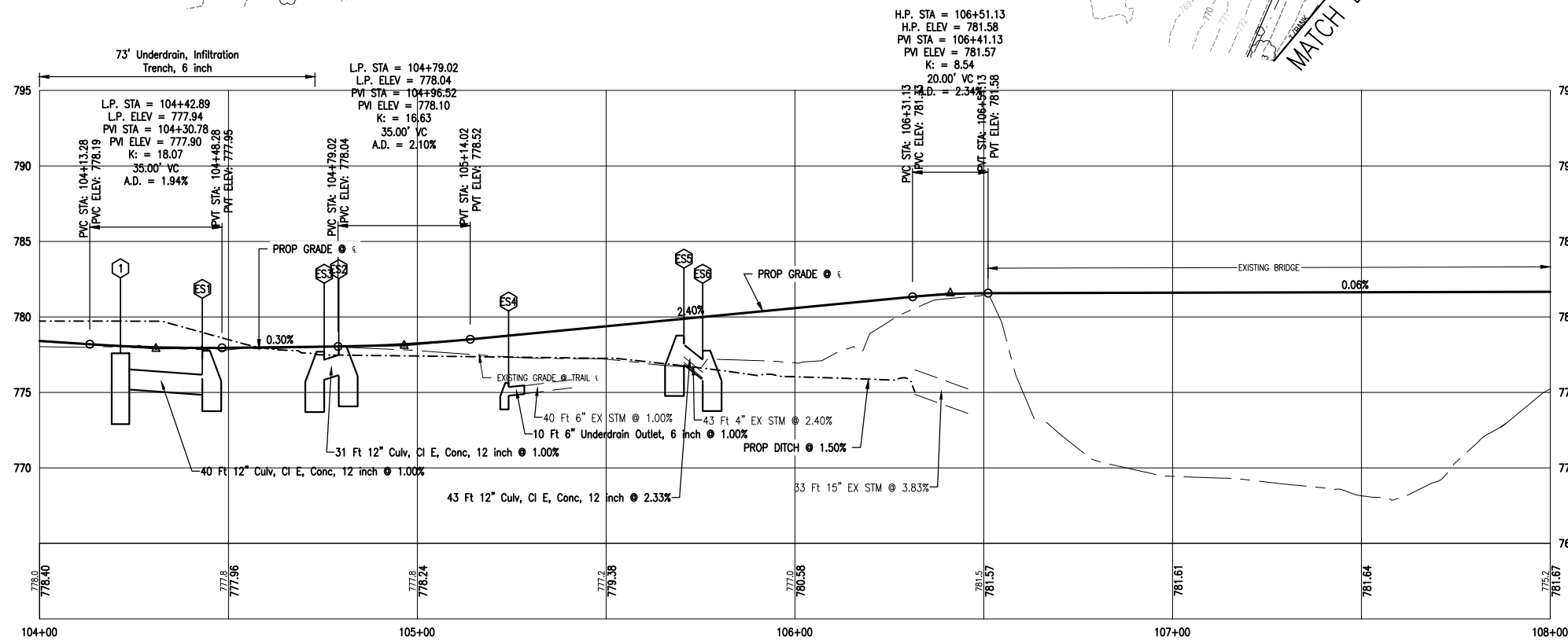
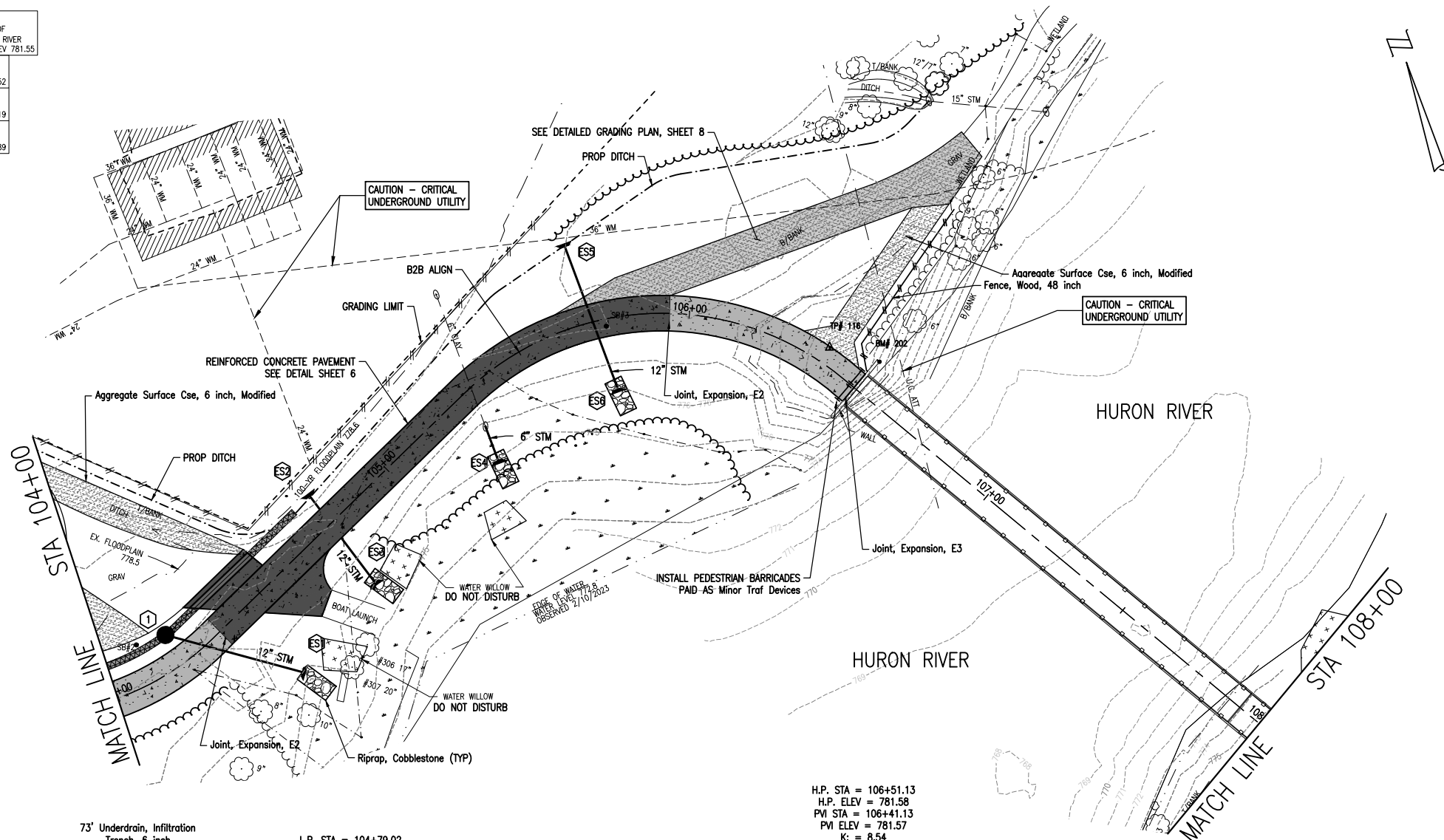
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JOB BENCHMARK #202
 SET BOXED 'X' ON SE/COR OF
 HEADWALL N/SIDE OF HURON RIVER
 ELEV 781.55

TRAVERSE POINT #116
 N 294961.04
 E 13288669.58 ELEV 781.52

SOIL BORING #2
 N 294950.00
 E 13288457.00 ELEV 778.19

SOIL BORING #3
 N 294989.00
 E 13288613.00 ELEV 776.89



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
52	Ft	Infiltration Trench, Det A
340	Syd	Aggregate Base, 10 inch, Modified
239	Syd	Aggregate Surface Cse, 6 inch, Modified
6	Ea	Culv End Sect, Conc, 12 inch
113	Ft	Culv, Cl E, Conc, 12 inch
1	Ea	Dr Structure Cover, Type E
1	Ea	Dr Structure, 48 inch dia
10	Ft	Underdrain Outlet, 6 inch
1	Ea	Underdrain, Outlet Ending, 6 inch
73	Ft	Underdrain, Infiltration Trench, 6 inch
20	Ft	Joint, Expansion, E2
10	Ft	Joint, Expansion, E3
212	Syd	Driveway, Reinf Conc, 8 inch
22	Ft	Valley Gutter, Conc, Modified
105	Syd	Shared use Path, Conc
390	Ft	Shared use Path, Grading, Modified
120	Syd	Shared use Path, Aggregate, 8 inch, Modified
54	Ft	Fence, Wood, 48 inch
23	Syd	Riprap, Cobblestone

LEGEND

	CONCRETE SHARED USE PATH SEE DETAIL SHEET 6
	REINFORCED CONCRETE PAVEMENT SEE DETAIL SHEET 6
	HEAVY DUTY AGGREGATE SURFACE COURSE SEE DETAIL SHEET 6
	Aggregate Surface Cse, 6 inch, Modified

- ① STA 104+21.40, -9.5' L Dr Structure, 48 inch dia T/CAST 777.59, COVER G 12" INV SE 775.40
- ② STA 104+43.07, 24.4' R Culv End Section, Conc, 12 inch 12" INV NW 775.00
- ③ STA 104+79.20, -9.7' L Culv End Section, Conc, 12 inch 12" INV S 776.31
- ④ STA 104+75.35, 20.6' R Culv End Section, Conc, 12 inch 12" INV N 776.00
- ⑤ STA 105+24.17, 20.3' R Underdrain, Outlet Ending, 6 inch 6" INV N 774.82
- ⑥ STA 105+70.61, -22.5' L Culv End Section, Conc, 12 inch 12" INV S 777.00
- ⑦ STA 105+75.58, 20.1' R Culv End Section, Conc, 12 inch 12" INV N 776.00



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REVISIONS:

NO.	DATE	DESCRIPTION
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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 CONSTRUCTION PLAN
 STA 104+00 TO STA 108+00

DATE: 9/18/2023
 PROJ NUMBER: 1022-060011
 COUNTY: WASHTENAW
 CITY OF ANN ARBOR
 CAD: JK
 PROJ MGR: CE
 SCALE: H: 1"=20'
 V: 1"=4'

DRAWING PATH: P:\1000_19891022\00010_Bandemer-Barton_Trail\Drawings\Civil\Plans_Constr\10010CON1.dwg Sep 20, 2023 - 12:06pm

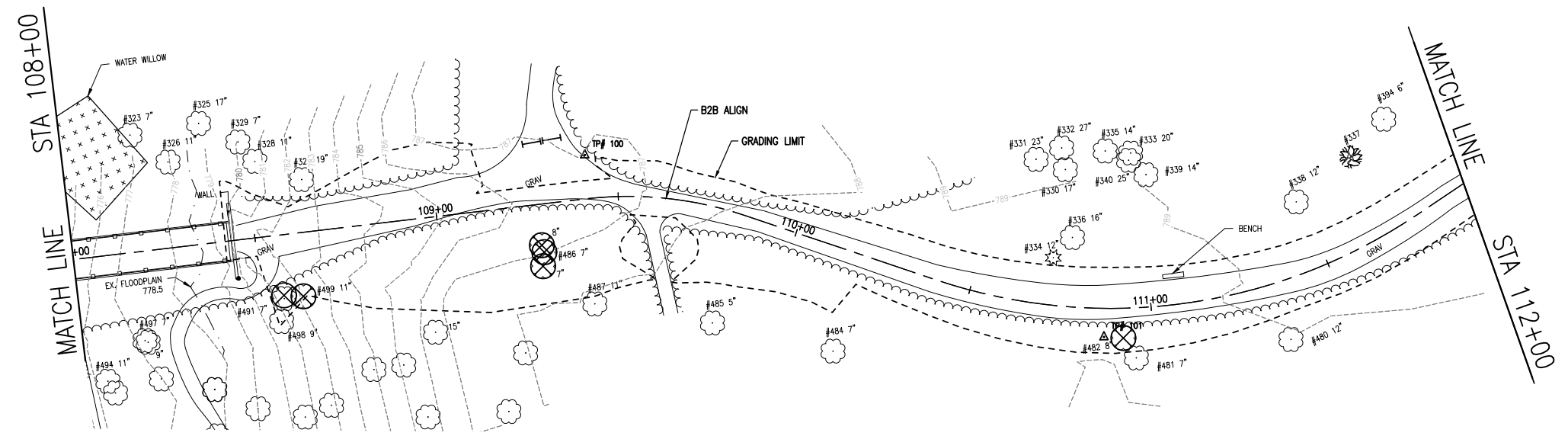
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JOB BENCHMARK #201 SET BOXED "X" ON S/WALL ON WEST BRIDGE ELEV 781.79		
TRAVERSE POINT #100 N 294701.97 E 13288827.18	ELEV 786.93	
TRAVERSE POINT #101 N 294551.88 E 13288837.23	ELEV 788.25	



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Livonia, MI 48150
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REMOVAL PLAN

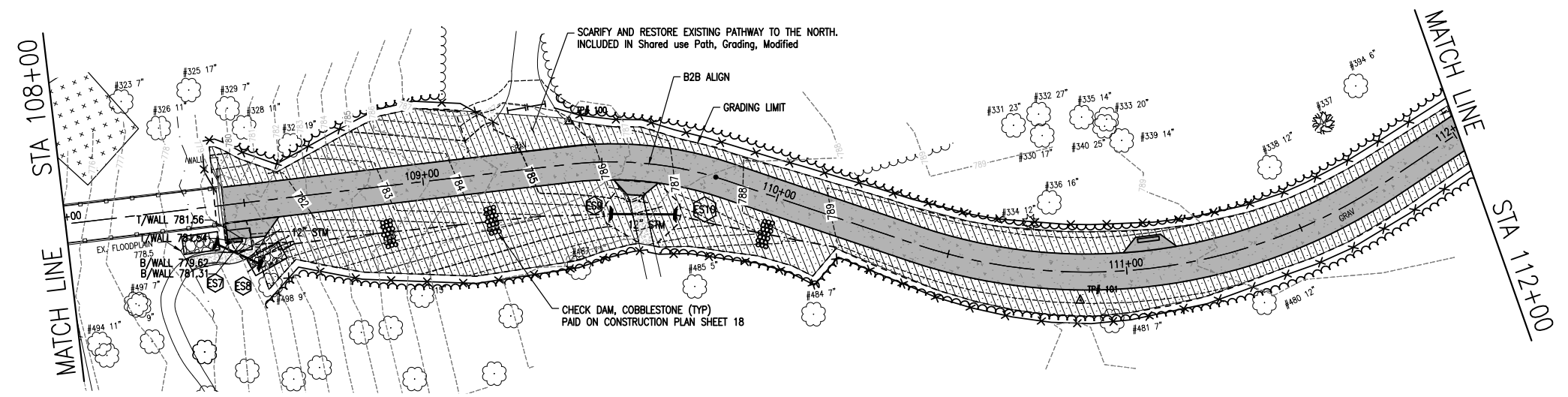


QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
6	Ea	Tree, Rem, 6 inch to 18 inch

- LEGEND
- Tree, Rem, _____
 - Erosion Control, Inlet Protection, Fabric Drop
 - Check Dam, Cobblestone
 - Turf Establishment, Native Seed Mix, _____, Performance
 - CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6
 - Aggregate Surface Cse, 6 inch, Modified

RESTORATION PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
718	Ft	Erosion Control, Silt Fence
595	Syd	Turf Establishment, Native Seed Mix, _____, Performance

DRAWING PATH: P:\1000-1989\1022\80010_BandemerBarton_TrialDrawings\CivilPlans_Const\80010GRD_RES_01.dwg Sep 20, 2023 - 12:05pm

REVISIONS:

DATE: 8/29/2022 PROJ NUMBER: 1022-19-0011 MR: CE PROJ MGR: CE CAD: J.K. COUNTY: WASHTENAW CITY/TOWNSHIP: CITY OF ANN ARBOR STATE: MI SCALE: H: 1"=50' V: N/A HORIZ DATUM: NAD83 VERT DATUM: NAVD83

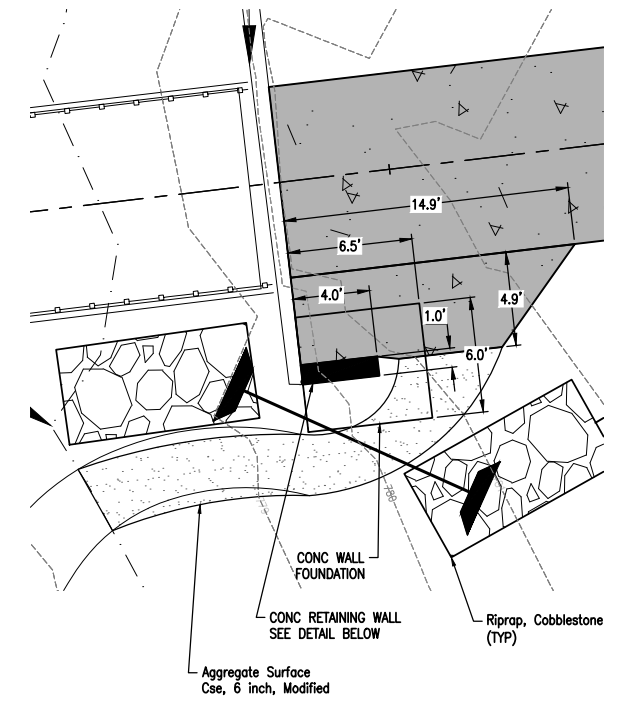
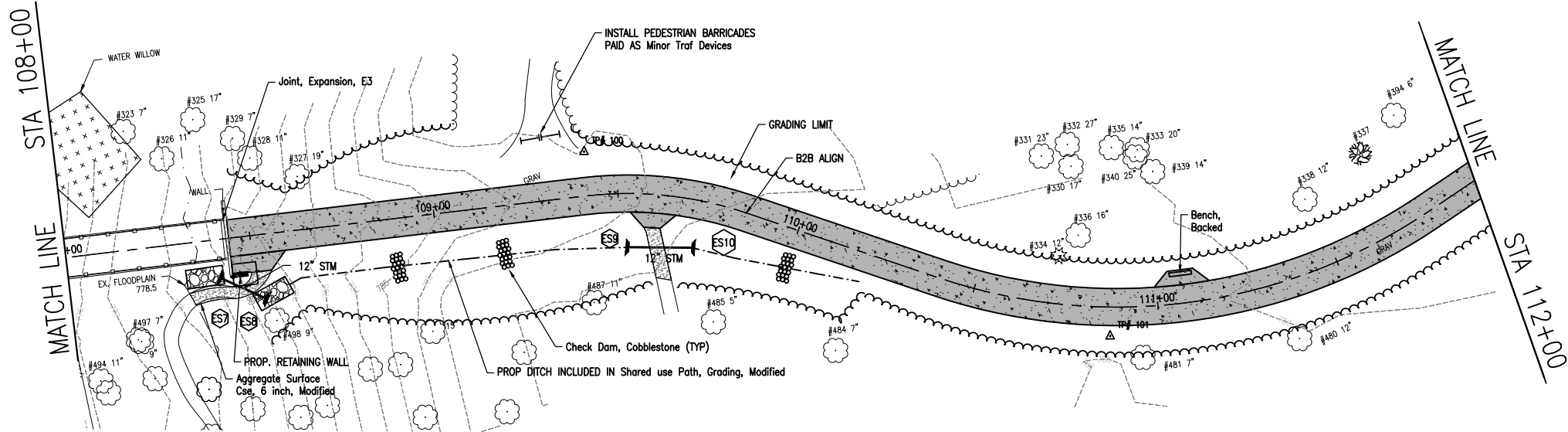
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
REMOVAL, GRADING AND EROSION CONTROL PLAN
STA 108+00 TO STA 112+00



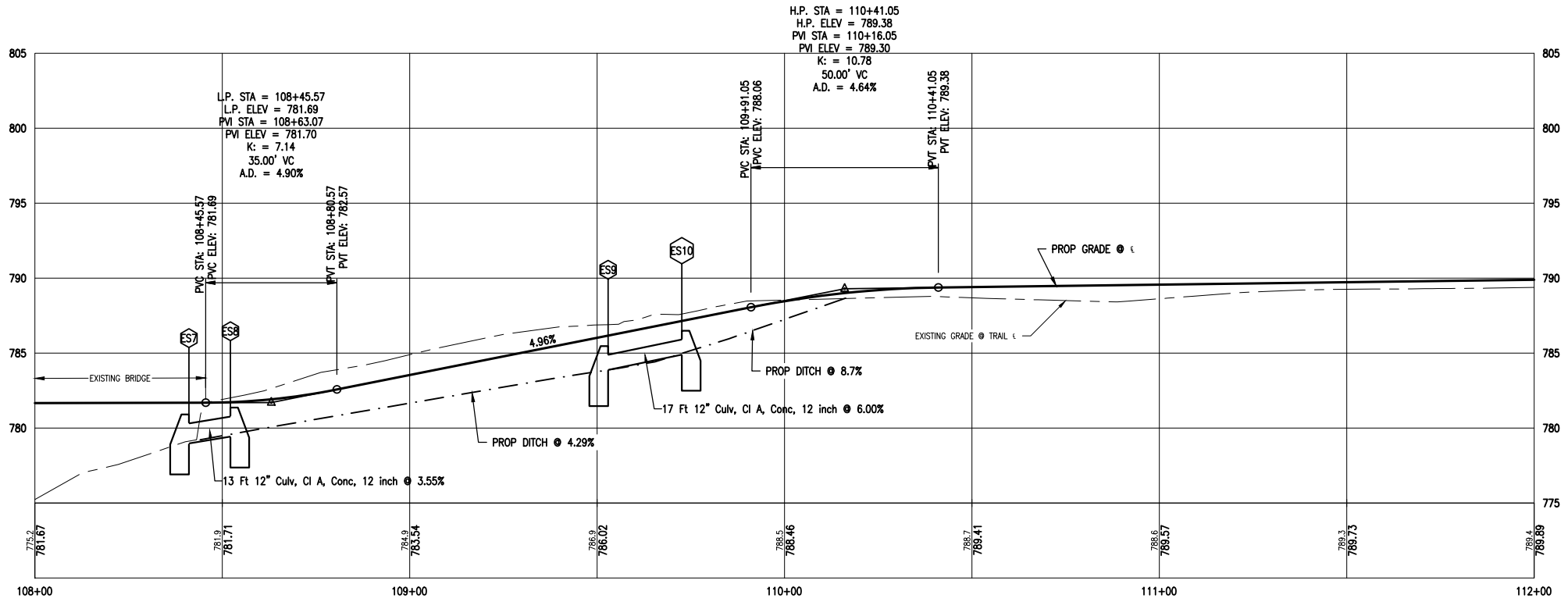
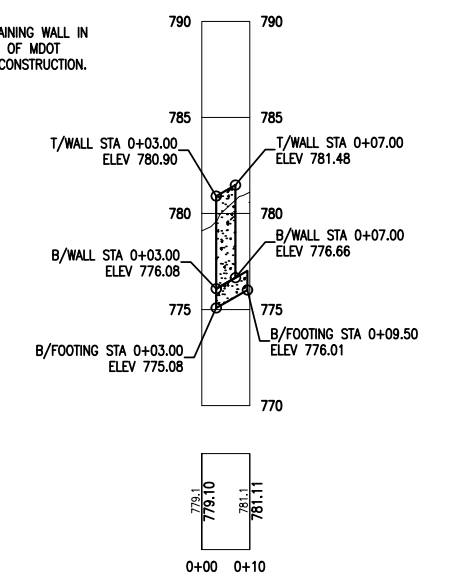
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JOB BENCHMARK #201 SET BOXED 'X' ON S/WALL ON WEST BRIDGE ELEV 781.79	
TRAVERSE POINT #100 N 294701.97 E 13288827.18 ELEV 786.93	
TRAVERSE POINT #101 N 294551.88 E 13288637.23 ELEV 788.25	



NOTES:
1. CONSTRUCT CAST IN PLACE RETAINING WALL IN ACCORDANCE WITH SECTION 706 OF MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.



LEGEND

	CONCRETE SHARED USE PATH SEE DETAIL SHEET 6
	Aggregate Surface Cse, 6 inch, Modified

QUANTITIES THIS SHEET

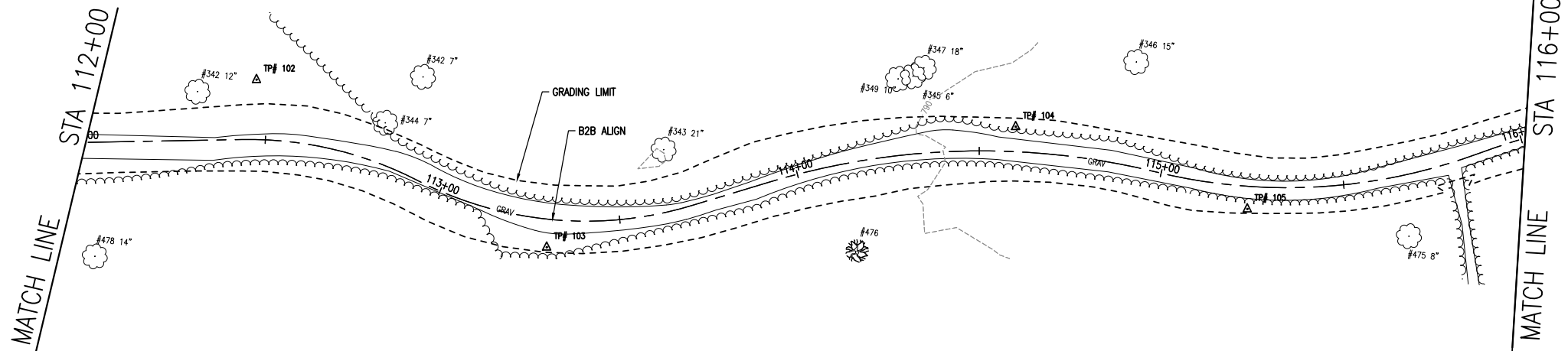
TOTAL	UNIT	DESCRIPTION
15	Syd	Aggregate Surface Cse, 6 inch, Modified
4	Ea	Culv End Sect, Conc, 12 inch
30	Ft	Culv, Cl E, Conc, 12 inch
10	Ft	Joint, Expansion, E3
50	Lb	Reinforcement, Steel, Epoxy Coated
1	Cyd	Conc, Grade 3500
460	Syd	Shared use Path, Conc
356	Ft	Shared use Path, Grading, Modified
525	Syd	Shared use Path, Aggregate, 8 inch, Modified
30	Ft	Check Dam, Cobblestone
12	Syd	Riprap, Cobblestone
1	Ea	Bench, Backed

- ES7 STA 108+41.11, 10.6' R
Culv End Section, Conc, 12 inch
12" INV S 779.14
- ES8 STA 108+52.17, 17.2' R
Culv End Section, Conc, 12 inch
12" INV N 779.60
- ES9 STA 109+52.95, 14.5' R
Culv End Section, Conc, 12 inch
12" INV SE 783.88
- ES10 STA 109+72.62, 12.9' R
Culv End Section, Conc, 12 inch
12" INV NW 784.90





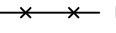


TRAVERSE POINT #102	N 294461.78	E 13289009.21	ELEV 789.48
TRAVERSE POINT #103	N 294373.79	E 13289009.12	ELEV 789.90
TRAVERSE POINT #104	N 294335.60	E 13289133.26	ELEV 790.36
TRAVERSE POINT #105	N 294281.78	E 13289172.97	ELEV 790.60

REMOVAL PLAN

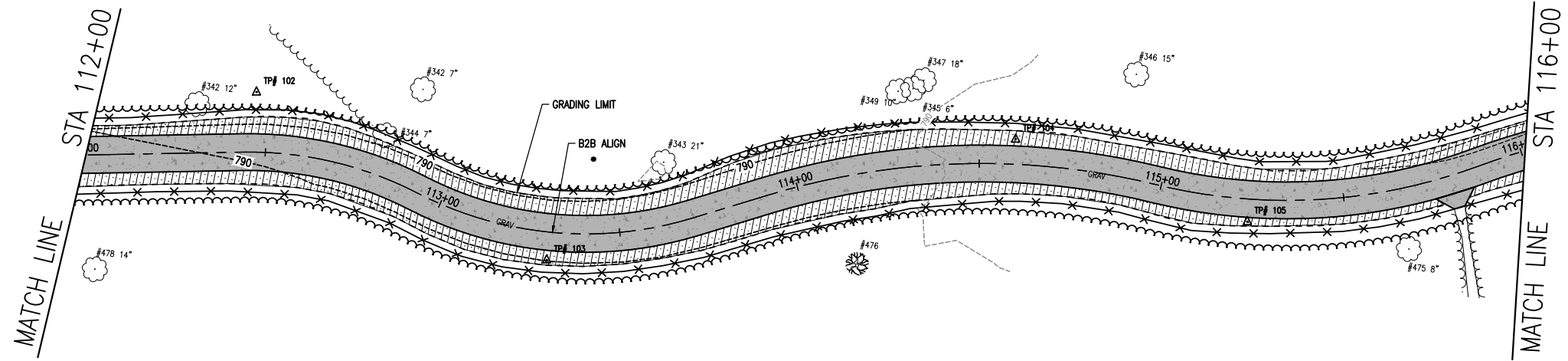


QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 6 inch to 18 inch

- LEGEND
-  Tree, Rem, _____
 -  Erosion Control, Inlet Protection, Fabric Drop
 -  Erosion Control, Silt Fence
 -  Turf Establishment, Native Seed Mix, _____, Performance
 -  CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

RESTORATION PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
800	Ft	Erosion Control, Silt Fence
280	Syd	Turf Establishment, Native Seed Mix, _____, Performance



Know what's below.
 Call before you dig.

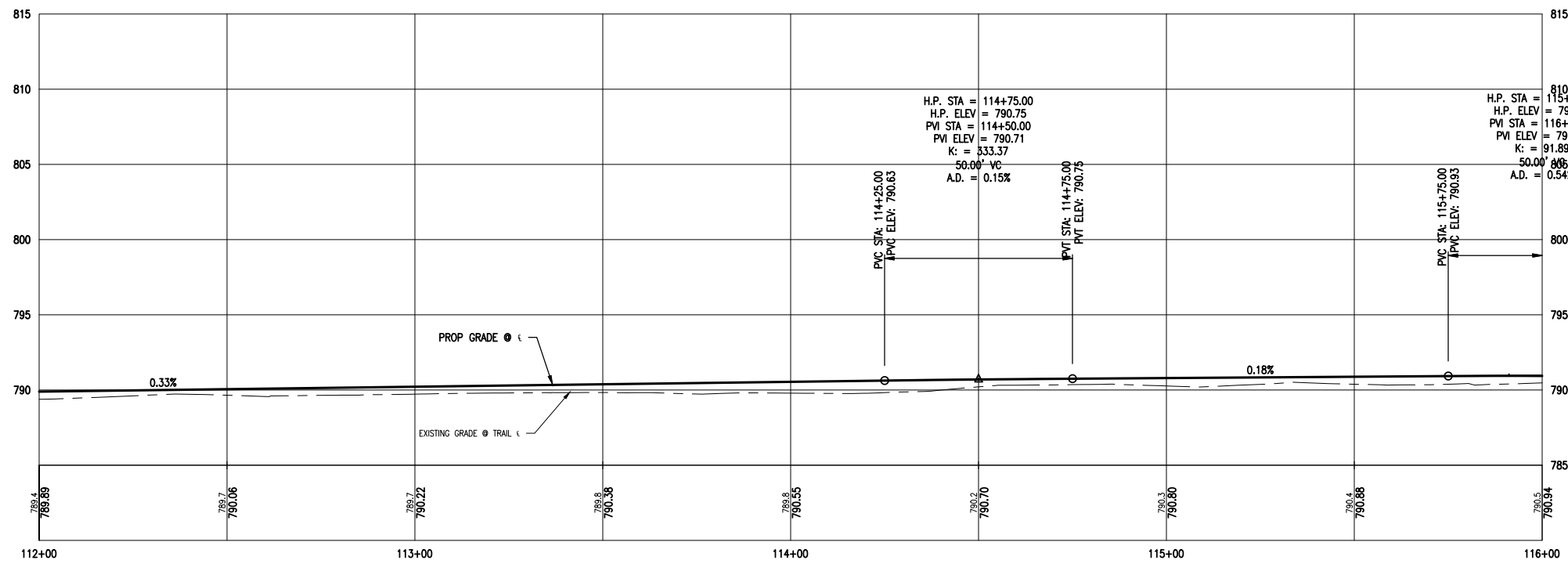
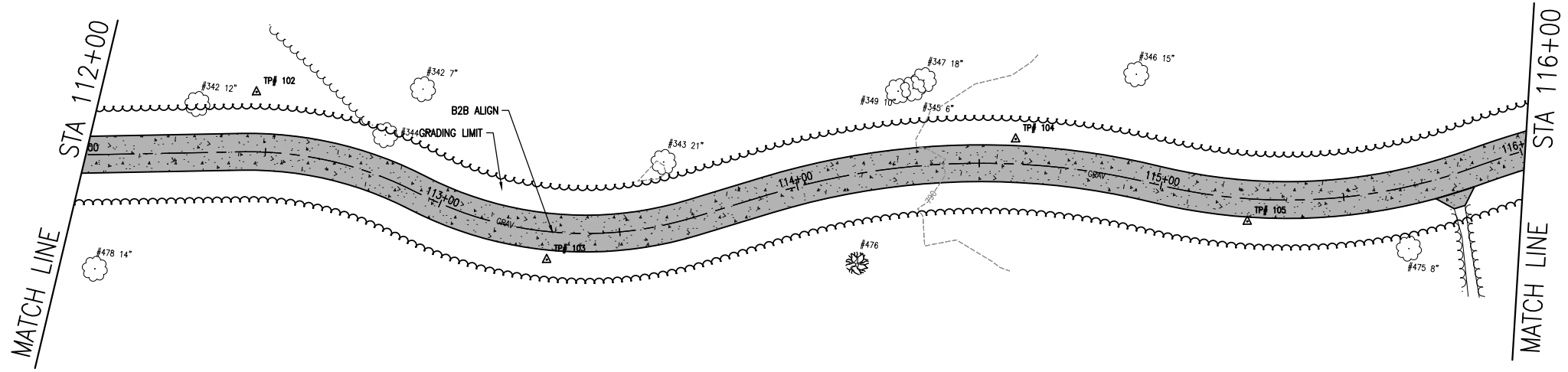
DATE	PROJ NUMBER	ENG	MR	CE	PROJ MGR	CADD	COUNTY	CITY/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM	REVISIONS
8/28/2022	1022-16-0011						WASHTENAW	CITY OF ANN ARBOR	1"=20'	NAD83	NAD83	

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA 112+00 TO STA 116+00

DRAWING PATH: P:\1000_1989\1022\100010_BandemerBarton_TrailDrawings\CivilPlans_Constr\100010GRD_RES_01.dwg Sep 20, 2023 - 12:07pm

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TRAVERSE POINT #102	N 294461.78	E 1328909.21	ELEV 789.48
TRAVERSE POINT #103	N 294373.79	E 13289009.12	ELEV 789.90
TRAVERSE POINT #104	N 294335.60	E 13289133.26	ELEV 790.36
TRAVERSE POINT #105	N 294281.78	E 13289172.97	ELEV 790.60



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
467	Syd	Shared use Path, Conc
400	Ft	Shared use Path, Grading, Modified
534	Syd	Shared use Path, Aggregate, 8 inch, Modified

Q
T

DRAWING PATH: P:\1000_19891022\80010_BandemerBarton_Trail\Drawings\Civil\Plans_Constr\80010CON1.dwg Sep 20, 2023 - 12:07pm

REVISIONS:

DATE: 9/19/2023
 PROJ NUMBER: 1022-060011
 COUNTY: WASHTENAW
 CITY/TOWNSHIP: CITY OF ANN ARBOR
 SCALE: H: 1"=20' V: 1"=4'
 CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRS
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 CONSTRUCTION PLAN
 STA 112+00 TO STA 116+00



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TRAVERSE POINT #106
N 294246.10
E 13289286.59 ELEV 790.09
TRAVERSE POINT #107
N 294168.66
E 13289356.58 ELEV 789.87
TRAVERSE POINT #108
N 294185.92
E 13289462.30 ELEV 790.07

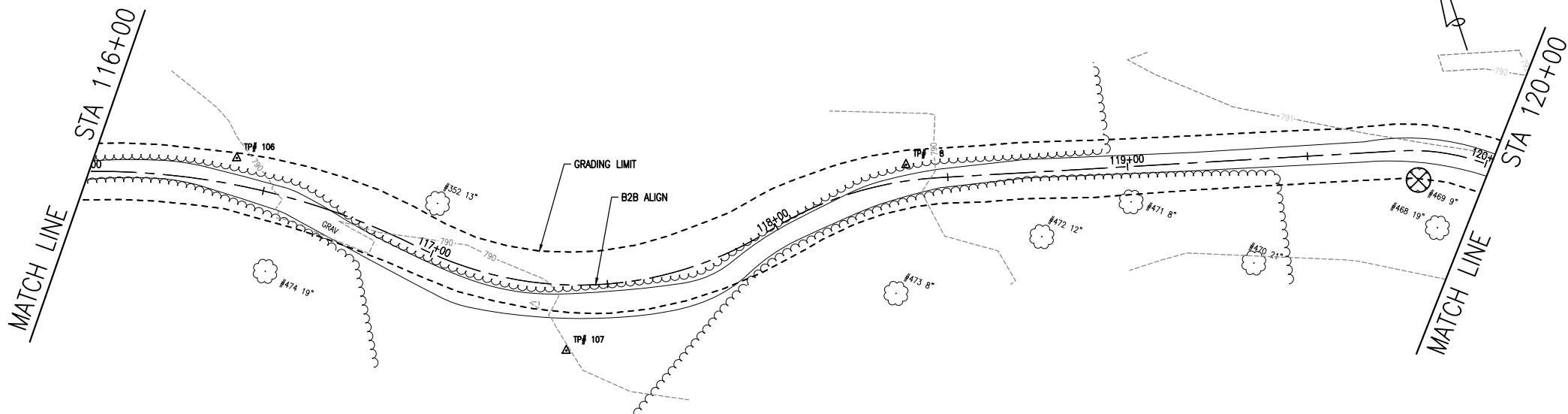







ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM

QUANTITIES THIS SHEET

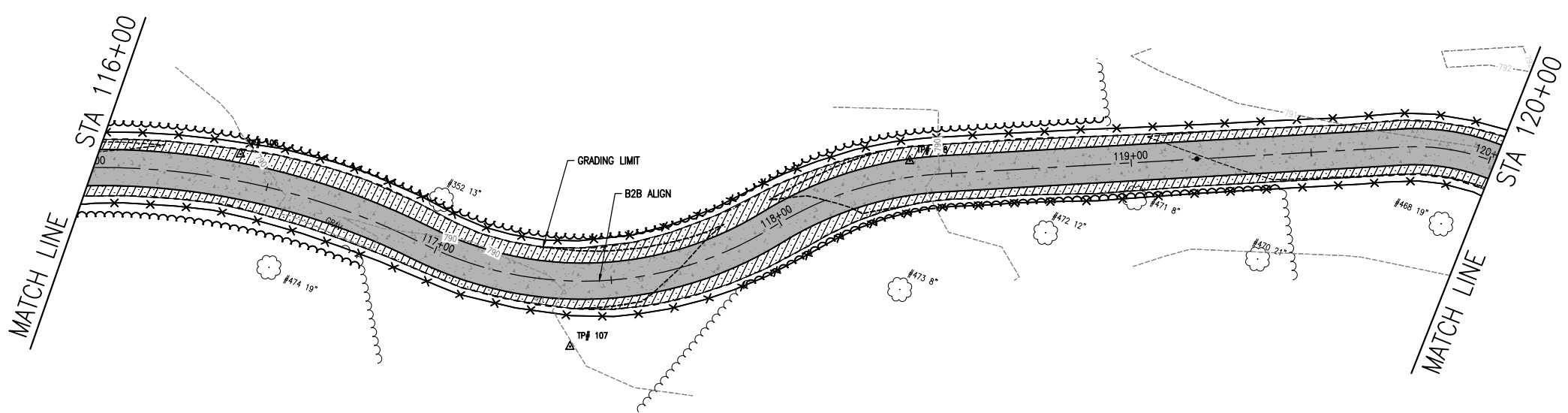
TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 6 inch to 18 inch

REMOVAL PLAN



- LEGEND
-  Tree, Rem, _____
 -  Erosion Control, Inlet Protection, Fabric Drop
 -  Erosion Control, Silt Fence
 -  Turf Establishment, Native Seed Mix, _____, Performance
 -  CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

RESTORATION PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
800	Ft	Erosion Control, Silt Fence
280	Syd	Turf Establishment, Native Seed Mix, _____, Performance

DRAWING PATH: P:\1000-1989\1022\10010_BandmerBarton_Traffic\Drawings\CivilPlans_Constr\10010GRD_RES_02.dwg Sep 20, 2023 - 12:08pm

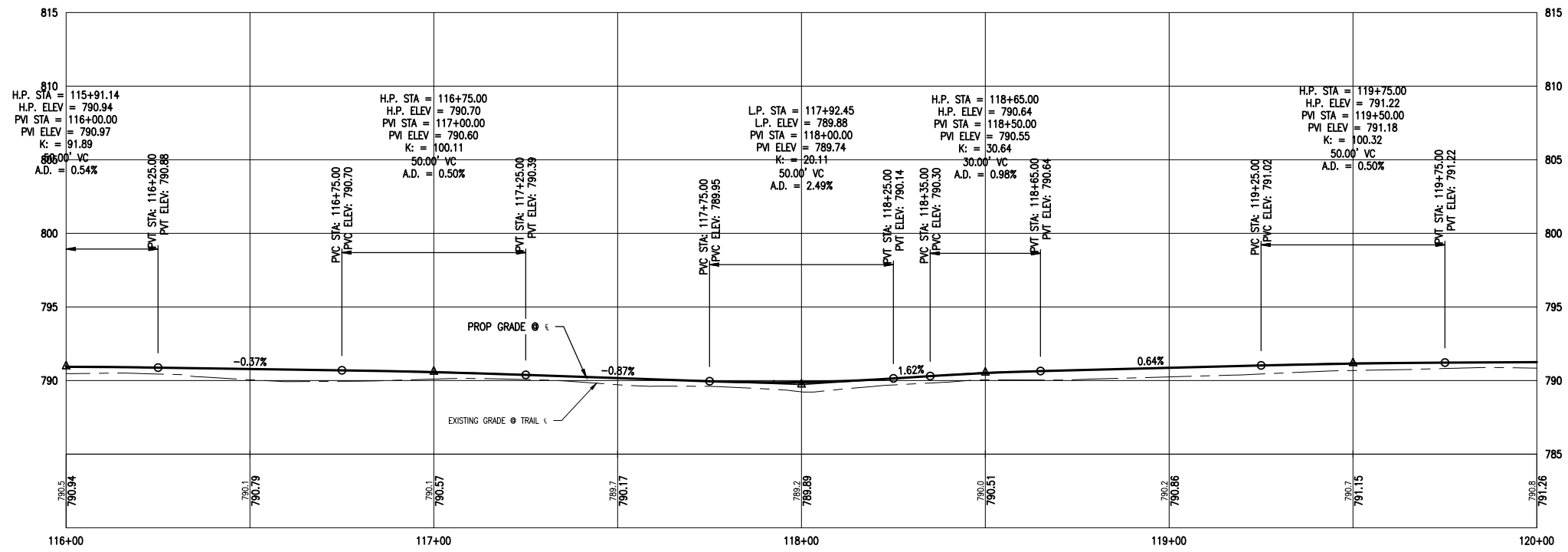
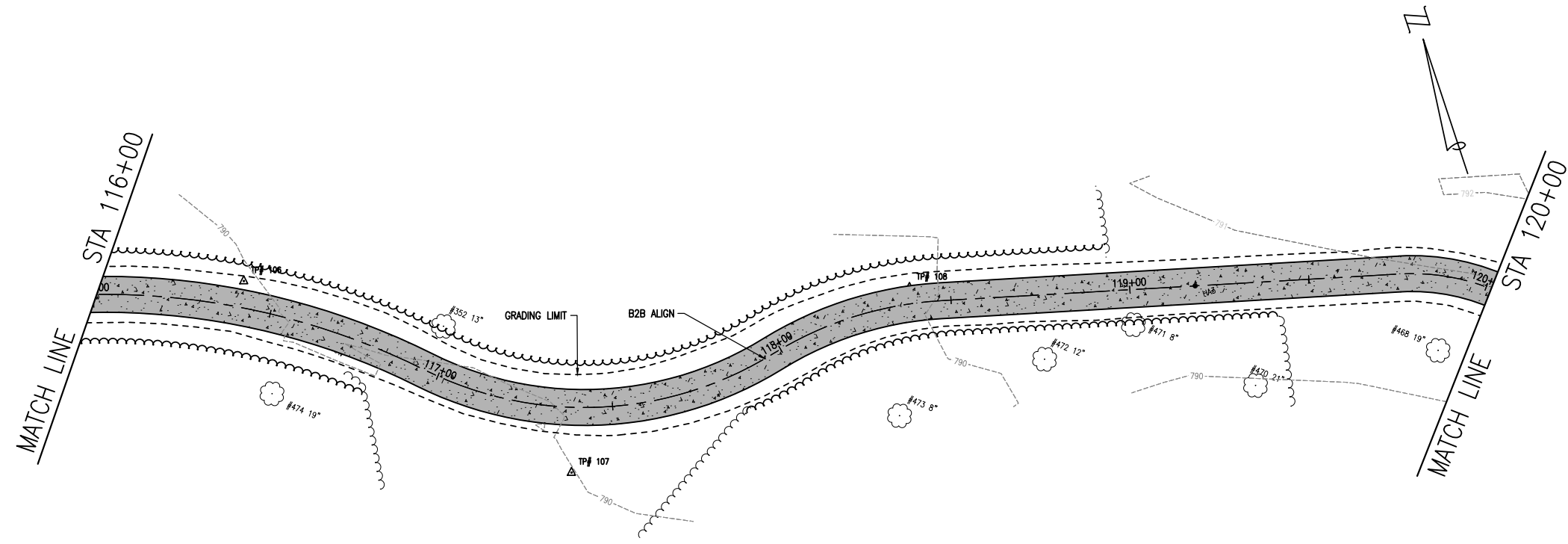
REVISIONS:

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DATE	9/18/2023	PROJ NUMBER	1022-10011	ENG	MB	PROJ MGR	CE	CADD	JK	COUNTY	WASHTENAW	CITY/TOWNSHIP	CITY OF ANN ARBOR	HORIZ DATUM	NA83	VERT DATUM	NA83	SCALE	H. 1"=20'	V.
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC																				
BARTON NATURE AREA BORDER TO BORDER TRAIL																				
REMOVAL, GRADING AND EROSION CONTROL PLAN																				
STA 116+00 TO STA 120+00																				
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TRAVERSE POINT #106	N 294246.10	ELEV 790.09
E 13289286.59		
TRAVERSE POINT #107	N 294168.66	ELEV 789.87
E 13289356.58		
TRAVERSE POINT #108	N 294185.92	ELEV 790.07
E 13289462.30		

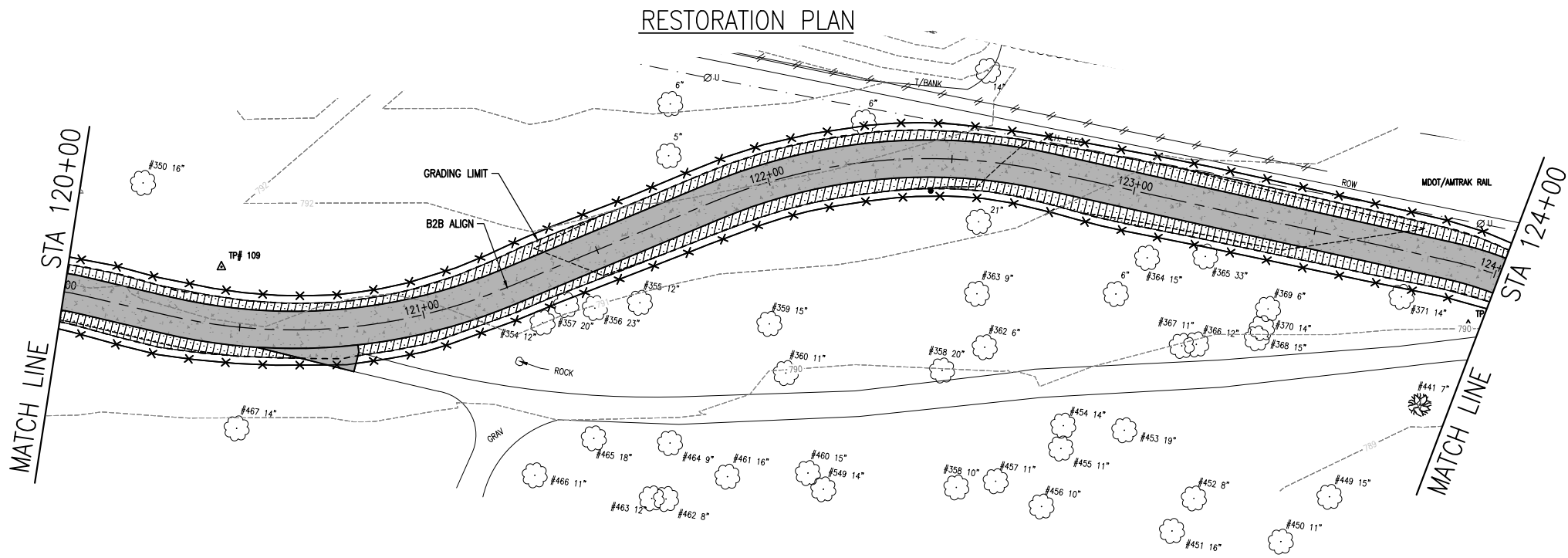
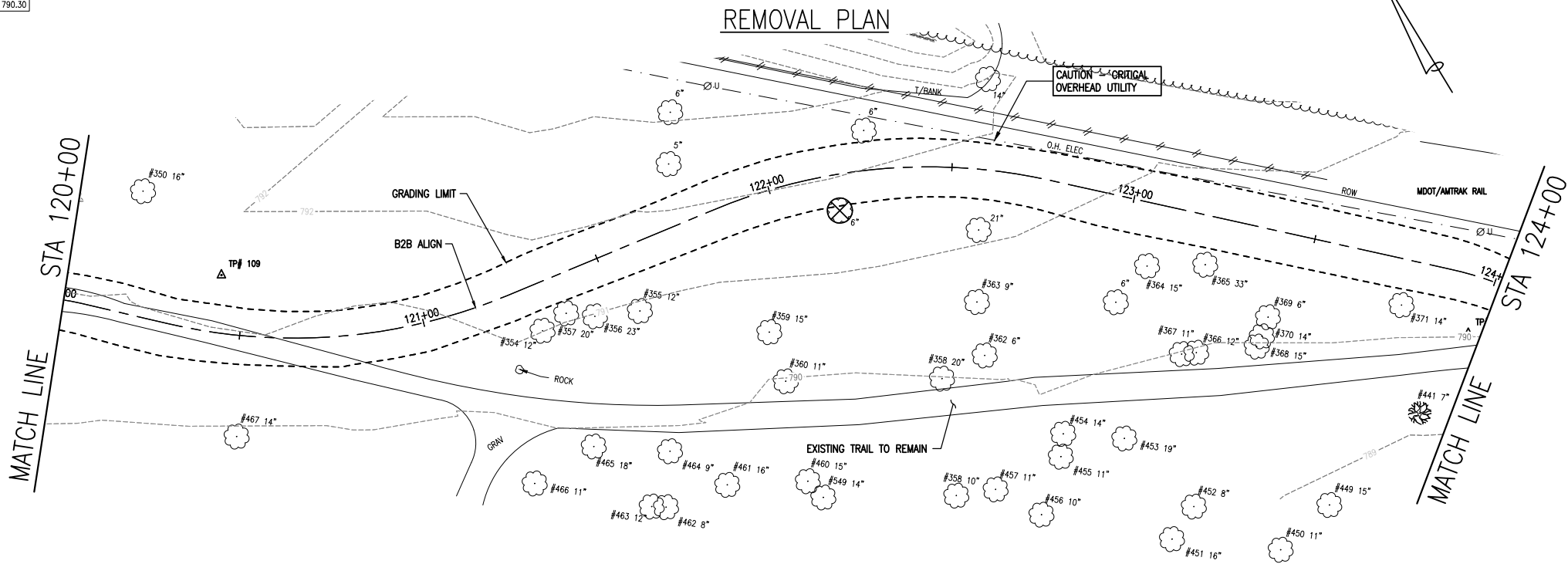


QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
467	Syd	Shared use Path, Conc
400	Ft	Shared use Path, Grading, Modified
534	Syd	Shared use Path, Aggregate, 8 inch, Modified






DRAWING PATH: P:\1000_19891102\180010_Bandemer-Barton_Trail\Drawings\Civil\Plans_Constr\180010CON2.dwg Sep 20, 2023 - 12:09pm

TRAVERSE POINT #109
 N 294118.26
 E 13289656.20 ELEV 791.42
 TRAVERSE POINT #110
 N 293930.45
 E 13289936.01 ELEV 790.30



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	EA	Tree, Rem, 6 inch to 18 inch

- LEGEND
-  Tree, Rem, _____
 -  Erosion Control, Inlet Protection, Fabric Drop
 -  Erosion Control, Silt Fence
 -  Turf Establishment, Native Seed Mix, _____, Performance
 -  CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
800	Ft	Erosion Control, Silt Fence
264	Syd	Turf Establishment, Native Seed Mix, _____, Performance

REVISIONS: _____

DATE: 9/18/2023
 PROJECT NUMBER: 1022-16-0011
 ENGINEER: MB
 PROJECT MANAGER: CE
 CAD: JK
 COUNTY: WASHTENAW
 CITY/TOWNSHIP: CITY OF ANN ARBOR
 VERT DATUM: NAVD83
 HORIZ DATUM: NAVD83
 SCALE: H: 1"=20'

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA 120+00 TO STA 124+00

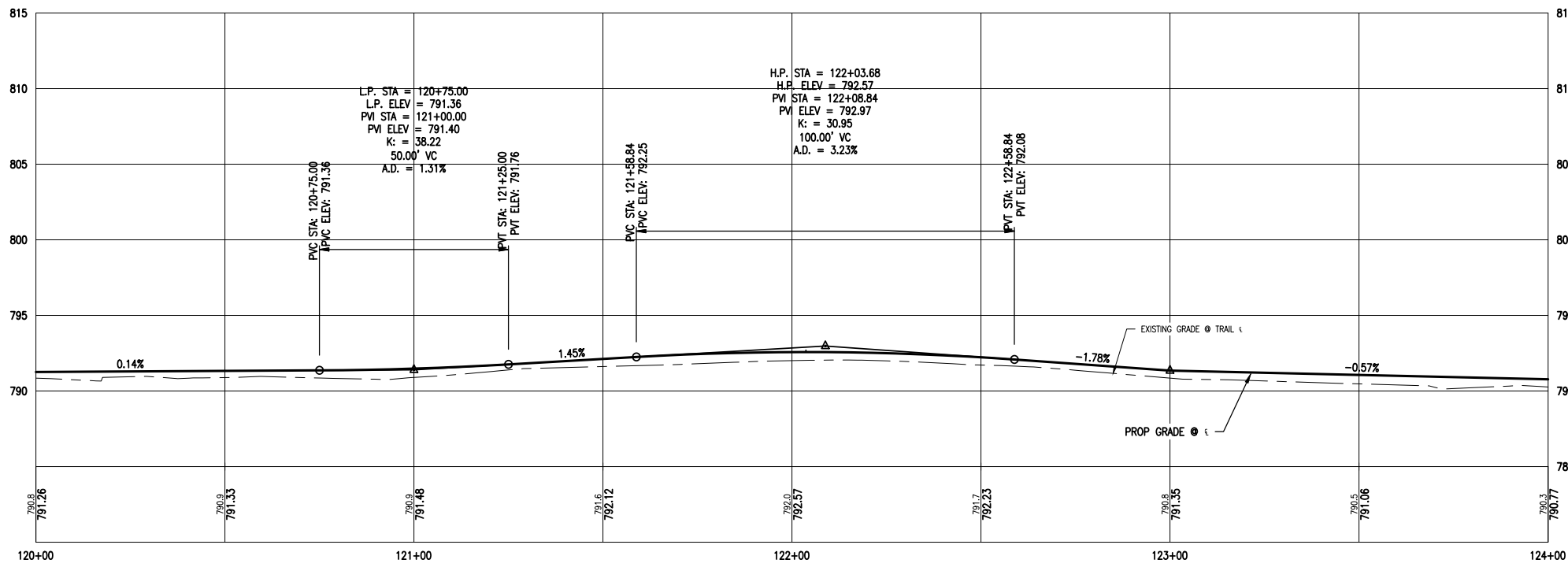
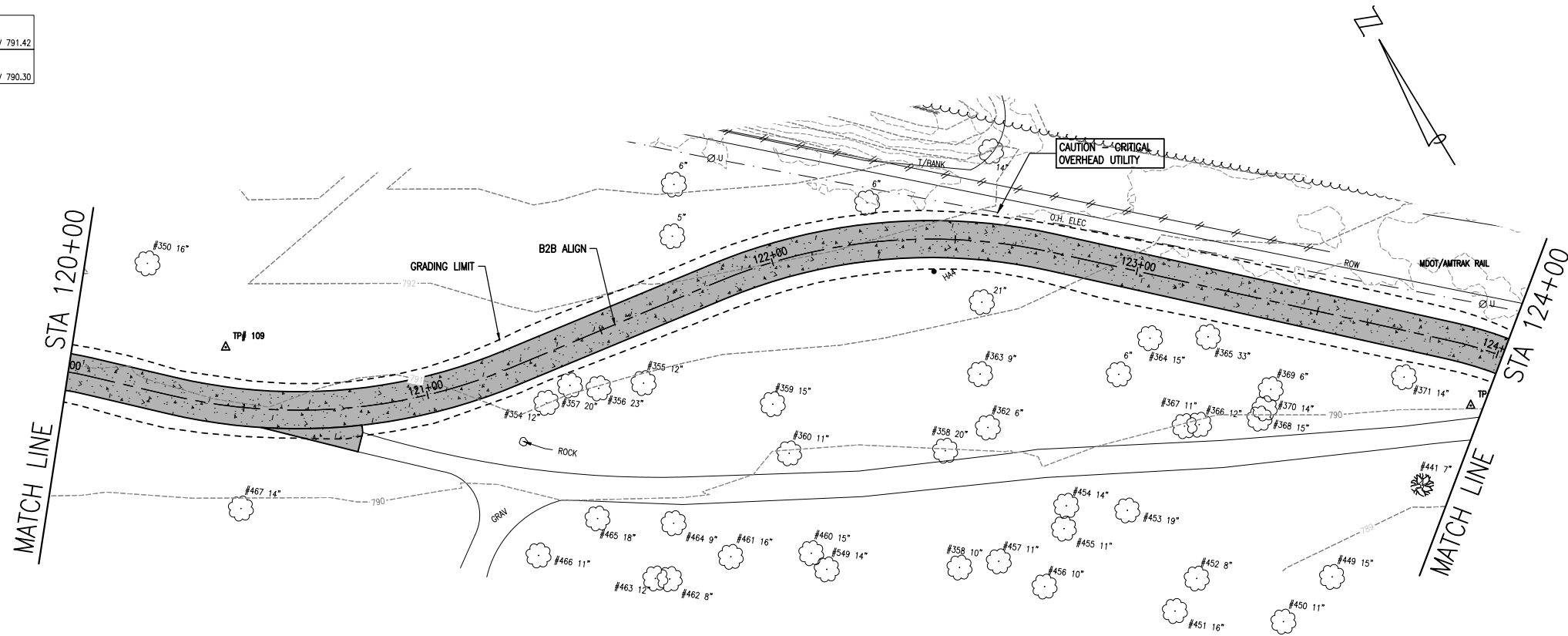


Know what's below.
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DRAWING PATH: P:\1000_1989\1022\10010_BandemerBarton_TrailDrawings\CivilPlans_Const\10010GRD_RES_02.dwg Sep 20, 2023 - 12:10pm

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TRAVERSE POINT #109
 N 294118.26
 E 13289656.20 ELEV 791.42
 TRAVERSE POINT #110
 N 293930.45
 E 13289936.01 ELEV 790.30



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
477	Syd	Shared use Path, Conc
400	Ft	Shared use Path, Grading, Modified
546	Syd	Shared use Path, Aggregate, 8 inch, Modified

DRAWING PATH: P:\1000_1989\1022\80010_BandemerBarton_TrailDrawings\CivilPlans_Constr\80010CON2.dwg Sep 20, 2023 - 12:10pm

REVISIONS:

DATE: 9/18/2023
 PROJ NUMBER: 1022-06011 MB
 PROJ MGR: CE
 COUNTY: WASHTENAW
 CITY/TOWNSHIP: CITY OF ANN ARBOR
 SCALE: H: 1"=20' V: 1"=4'
 HORIZ DATUM: NAD83
 VERT DATUM: NAVD88

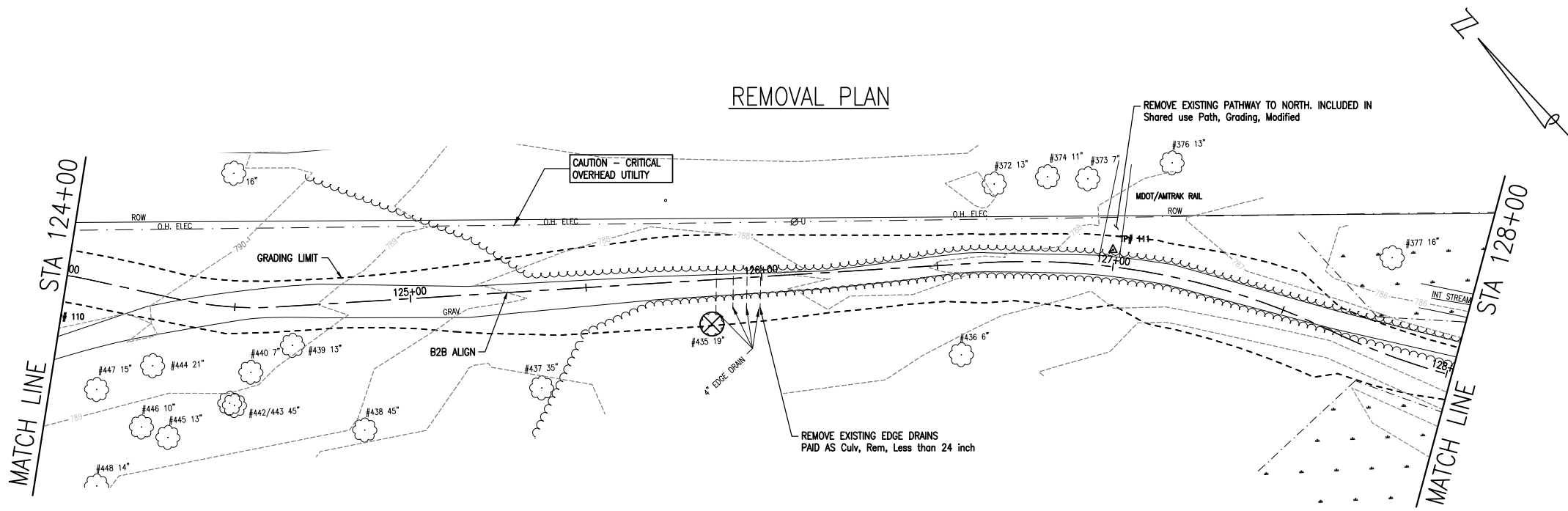
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 CONSTRUCTION PLAN
 STA 120+00 TO STA 124+00



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TRAVERSE POINT #111
 N 293740.24
 E 13290172.76 ELEV 787.69






REMOVAL PLAN



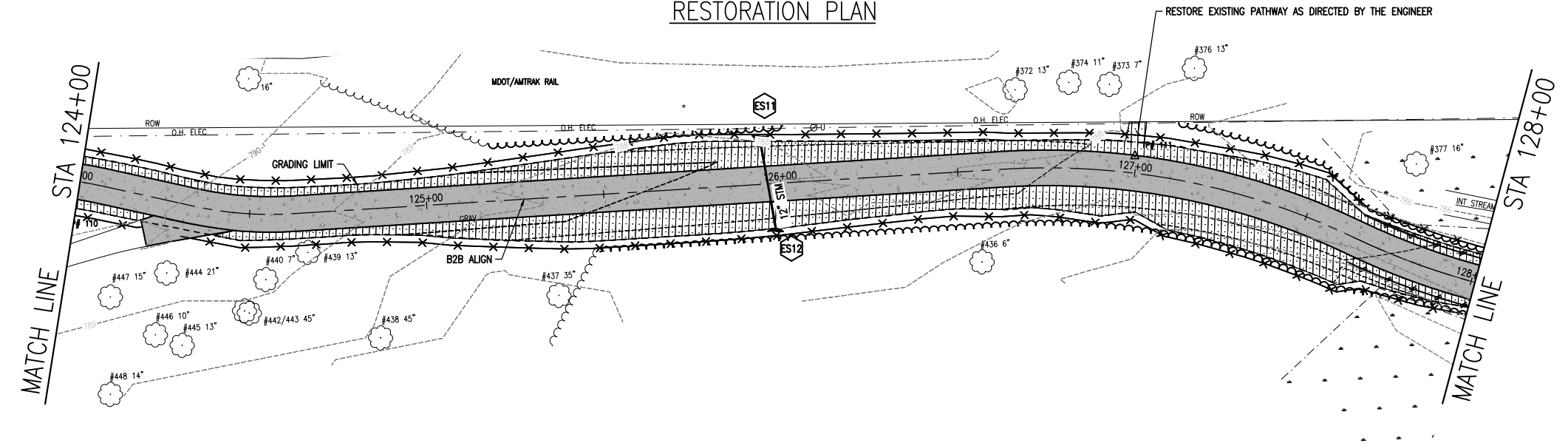
QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 19 inch to 36 inch
4	Ea	Culv, Rem, Less than 24 inch

LEGEND

-  Tree, Rem, _____
-  Erosion Control, Inlet Protection, Fabric Drop
-  Erosion Control, Silt Fence
-  Turf Establishment, Native Seed Mix, _____, Performance
-  CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

RESTORATION PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
800	Ft	Erosion Control, Silt Fence
442	Syd	Turf Establishment, Native Seed Mix, _____, Performance

DRAWING PATH: P:\1000_1989\1022\100010_BandemerBarton_TrafficDrawings\CivilPlans_Const\100010GRD_RES_02.dwg Sep 20, 2023 - 12:11pm

REVISIONS:

NO. 1

DATE

BY

SCALE

H. 1"=20'

V.

CITY/TOWNSHIP

COUNTY

STATE

DATE

PROJECT

SHEET

OF 33

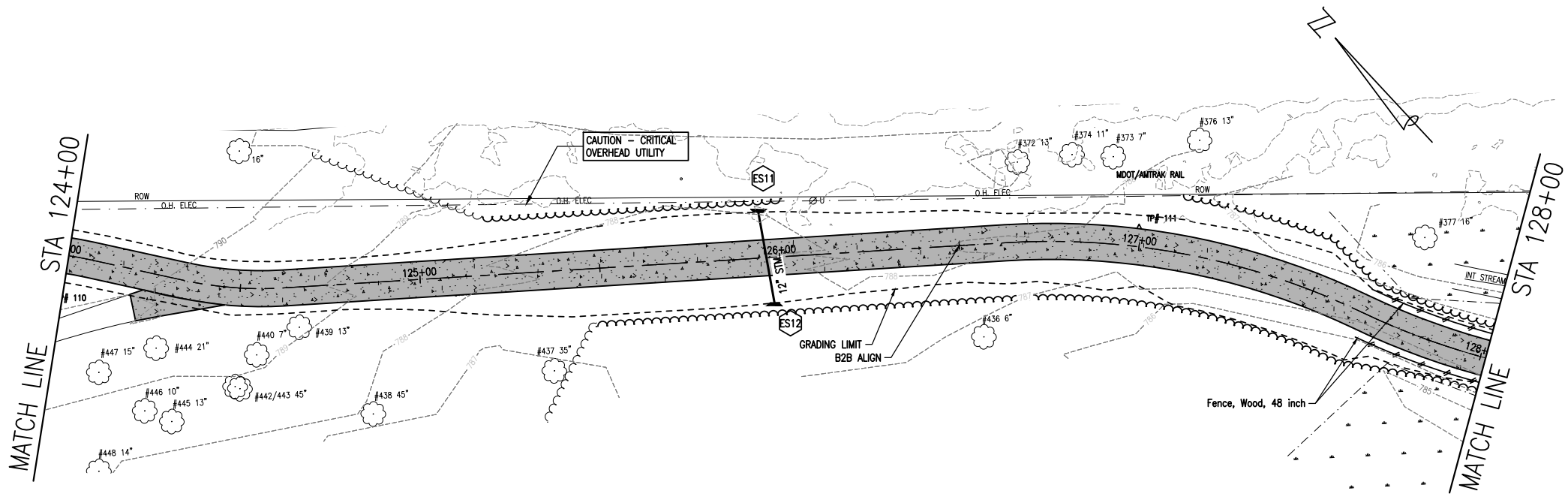
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA 124+00 TO STA 128+00



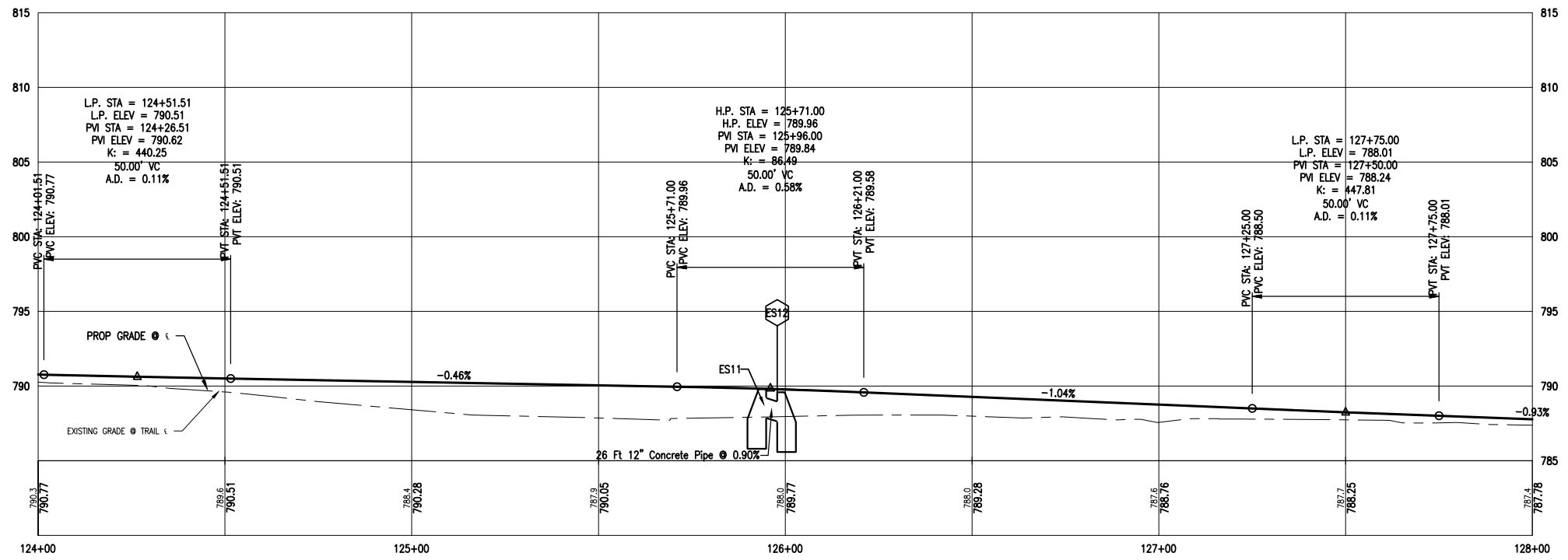
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TRAVERSE POINT #111
 N 293740.24
 E 13290172.76 ELEV 787.69



FENCE € THIS SHEET	
STA	OFFSET
127+66	7.0' L/R
128+00	7.0' L/R



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
4	Ea	Culv, Rem, Less than 24 inch
2	Ea	Culv End Sect, Conc, 12 inch
26	Ft	Culv, Cl E, Conc, 12 inch
480	Syd	Shared use Path, Conc
400	Ft	Shared use Path, Grading, Modified
548	Syd	Shared use Path, Aggregate, 8 inch, Modified
70	Ft	Fence, Wood, 48 inch

ES11 STA 125+94.89, -12.7' L
 Culv End Section, Conc, 12 inch
 12" INV SW 788.03

ES12 STA 125+97.83, 12.7' R
 Culv End Section, Conc, 12 inch
 12" INV NE 787.80

DRAWING PATH: P:\1000_1899\1022180010_BandmeesBarton_Trail\Drawings\Civil\Plans_Constr\180010CC02.dwg Sep 20, 2023 - 12:11pm

REVISIONS:
 DATE PROJ NUMBER ENG PROJ MGR CAD COUNTY CITY/TOWNSHIP SCALE V: 1"=4' H: 1/2"=30' CITY OF ANN ARBOR NAVD83

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 CONSTRUCTION PLAN
 STA 124+00 TO STA 128+00



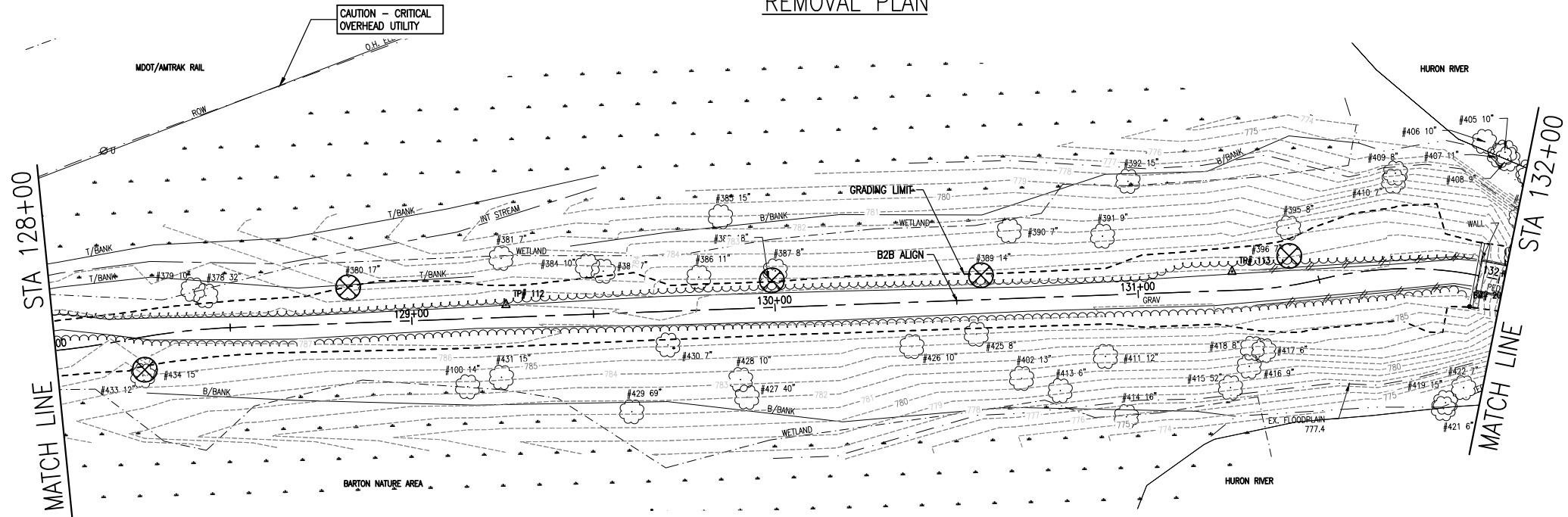
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JOB BENCHMARK #200
 SET BOXED 'X' ON S/WALL ON
 EAST BRIDGE
 ELEV 787.61

TRAVERSE POINT #112
 N 293543.08
 E 13290285.20 ELEV 787.24






TRAVERSE POINT #113
 N 293368.14
 E 13290382.06 ELEV 787.31

REMOVAL PLAN

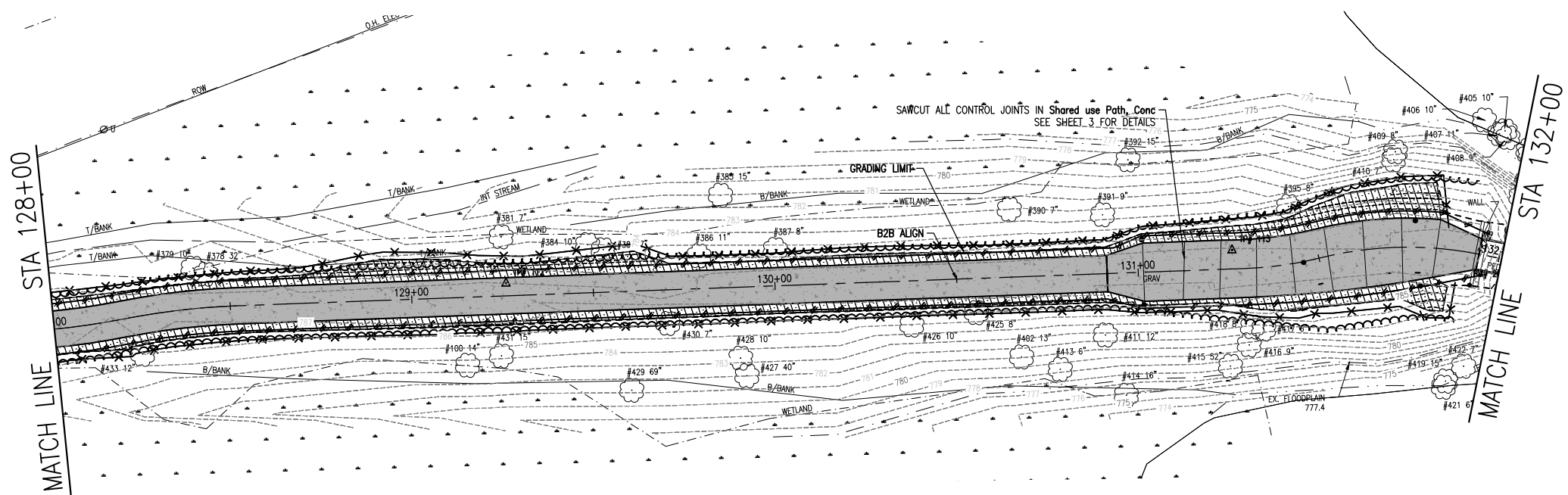


QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
5	Ea	Tree, Rem, 6 inch to 18 inch

- LEGEND
-  Tree, Rem, _____
 -  Erosion Control, Inlet Protection, Fabric Drop
 -  Erosion Control, Silt Fence
 -  Turf Establishment, Native Seed Mix, _____, Performance
 -  CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

RESTORATION PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
797	Ft	Erosion Control, Silt Fence
284	Syd	Turf Establishment, Native Seed Mix, _____, Performance

DRAWING PATH: P:\1000_19891022\80010_Bandemer\Barton_Trail\Drawings\Civil\Plans_Constr\80010GRD_RES_02.dwg Sep 20, 2023 - 12:12pm

REVISIONS:

NO. 1

DATE

BY

SCALE

H. 1"=20'

CITY/TOWNSHIP

CITY OF ANN ARBOR

COUNTY

WASHTENAW

PROJ MGR

CE

ENG

MB

DATE

9/19/2023

SHEET

27

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA 128+00 TO STA 132+00



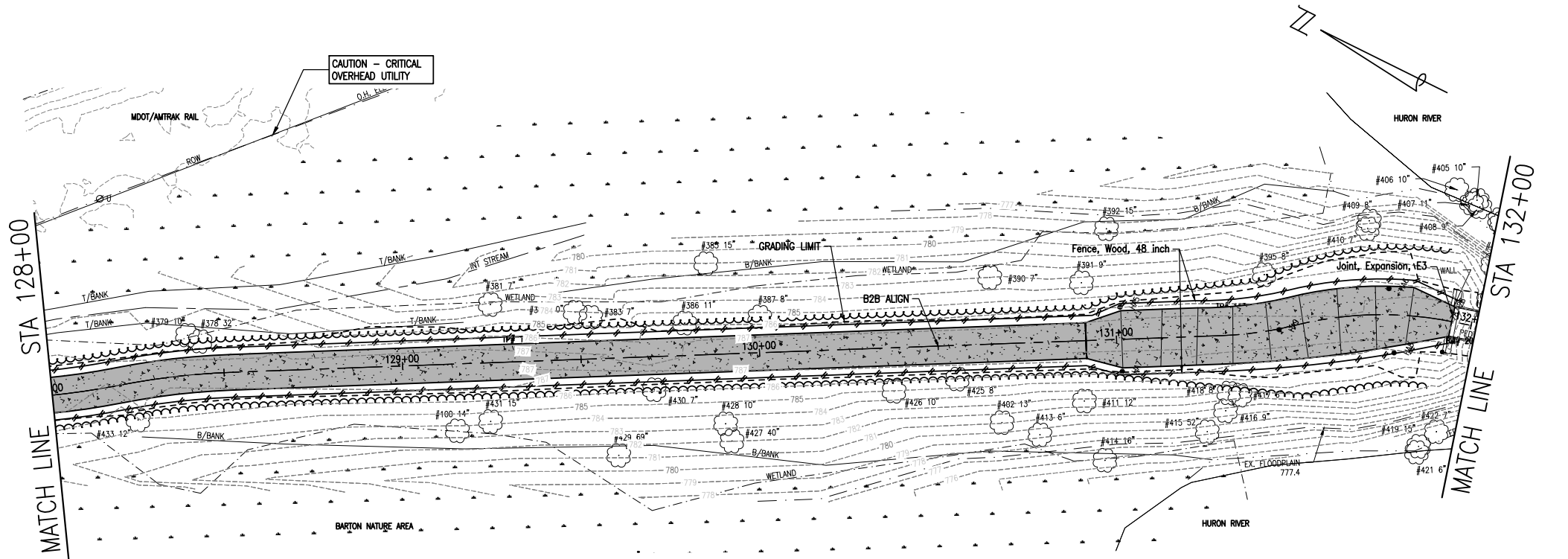
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JOB BENCHMARK #200
 SET BOXED 'X' ON S/WALL ON
 EAST BRIDGE
 ELEV 787.61

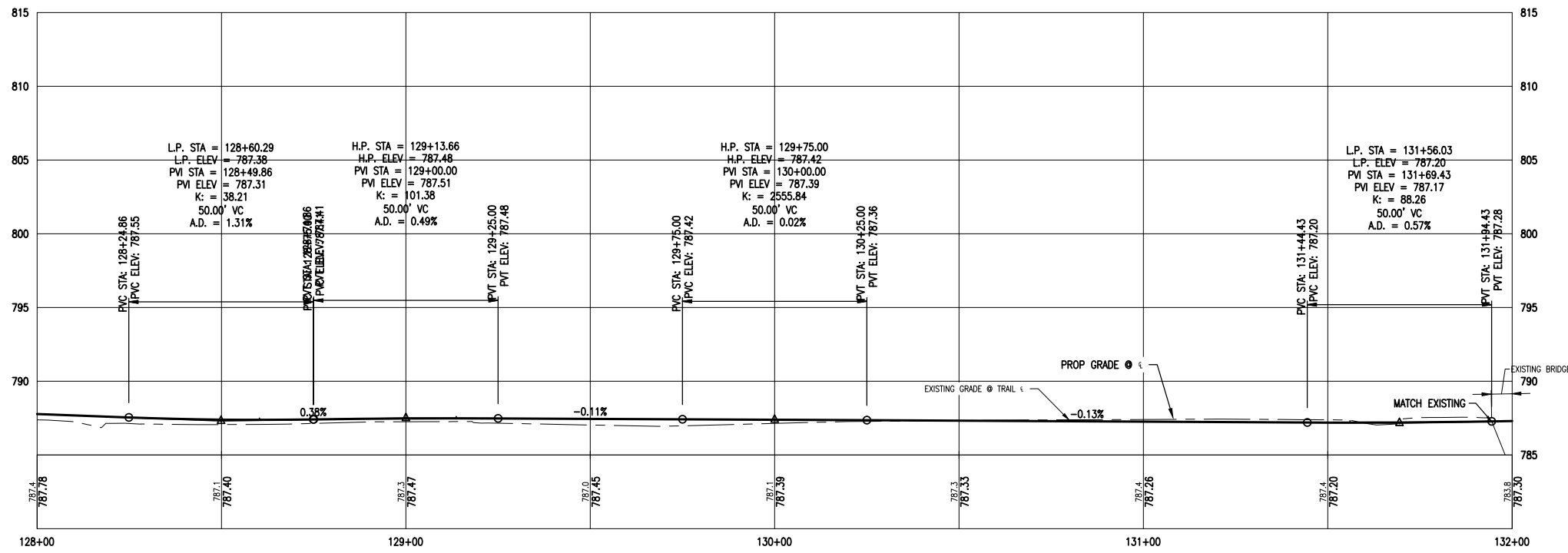
TRAVERSE POINT #112
 N 293543.08
 E 13290285.20 ELEV 787.24

TRAVERSE POINT #113
 N 293368.14
 E 13290382.06 ELEV 787.31



FENCE & THIS SHEET

STA	OFFSET
128+00	7.0' L/R
130+91	7.0' L/R
131+01	10.0' L/R
131+96	10.0' L/R



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
10	Ft	Joint, Expansion, E3
544	Syd	Shared use Path, Conc
400	Ft	Shared use Path, Grading, Modified
607	Syd	Shared use Path, Aggregate, 8 inch, Modified
794	Ft	Fence, Wood, 48 inch

DRAWING PATH: P:\1000_1989\1022\80010_BandemerBarton_Trail\Drawings\Civil\Plans_Constr\180010CON2.dwg Sep 20, 2023 - 12:19pm

REVISIONS: _____

DATE: 9/18/2023 PROJ NUMBER: 1022-06001 MB: CE PROJ MGR: CE CAD: JK COUNTY: WASHTENAW CITY/VILLAGE/TOWNSHIP: CITY OF ANN ARBOR SCALE: H: 1"=20' V: 1"=4' HORZ DATUM: NAD83 VERT DATUM: NAVD83

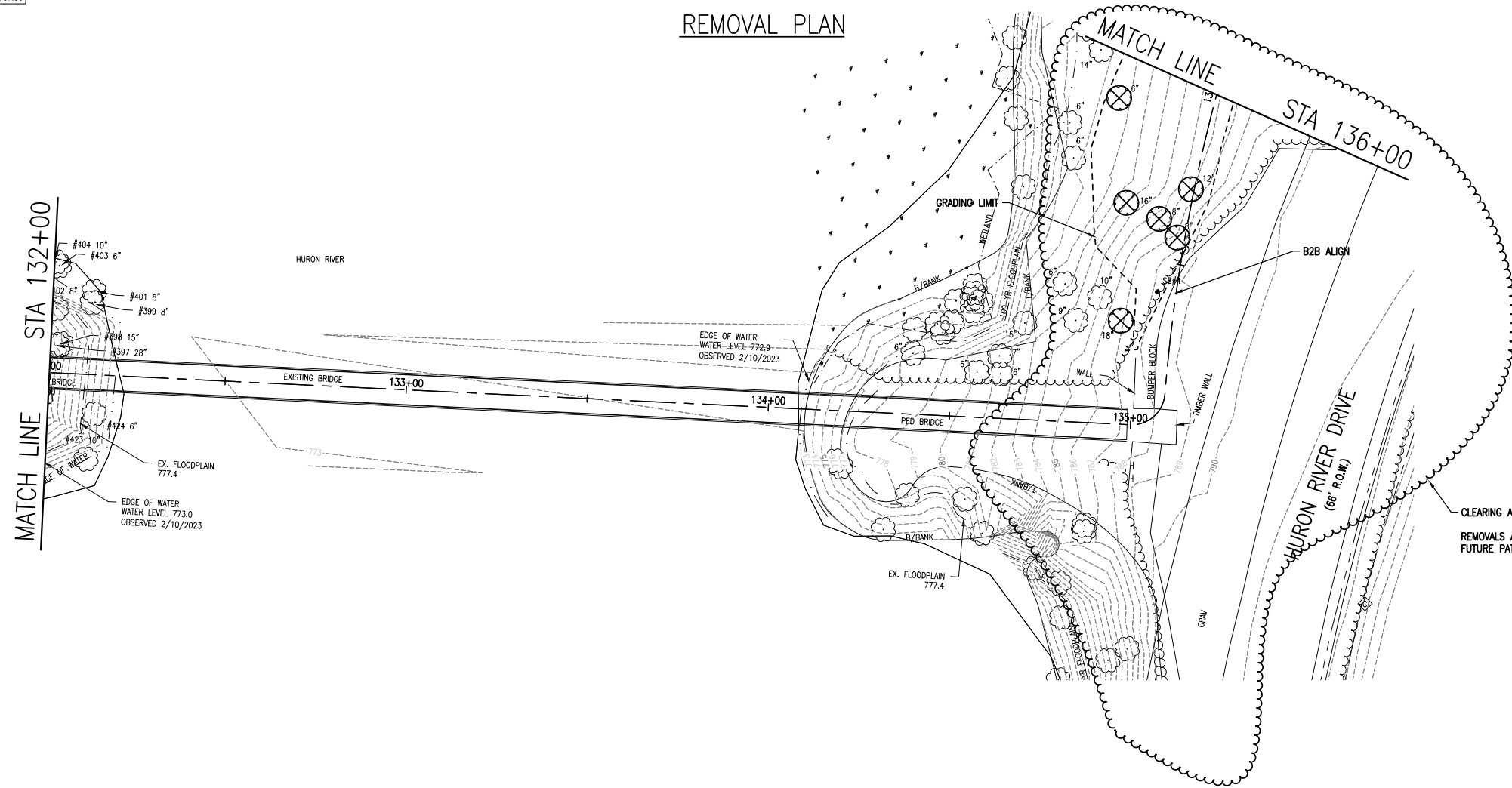
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 CONSTRUCTION PLAN
 STA 128+00 TO STA 132+00



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SOIL BORING #4
 N 293018.00
 E 13290528.00 ELEV 787.86

REMOVAL PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
6	Ea	Tree, Rem, 6 inch to 18 inch

CLEARING AND TREE REMOVALS REQUIRED WITHIN THIS REGION
 REMOVALS ARE REQUIRED FOR FUTURE PATHWAY CONSTRUCTION.
 FUTURE PATHWAY BY OTHERS

- LEGEND**
- Tree, Rem, _____
 - Erosion Control, Inlet Protection, Fabric Drop
 - Erosion Control, Silt Fence
 - Turf Establishment, Native Seed Mix, _____, Performance
 - CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

DRAWING PATH: P:\1000_1989\1022\80010_BandemerBarton_Trail\Drawings\CivilPlans_Constr\80010GRD_RES_03.dwg Sep 20, 2023 - 12:13pm

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 Livonia, MI 48150
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REVISIONS:

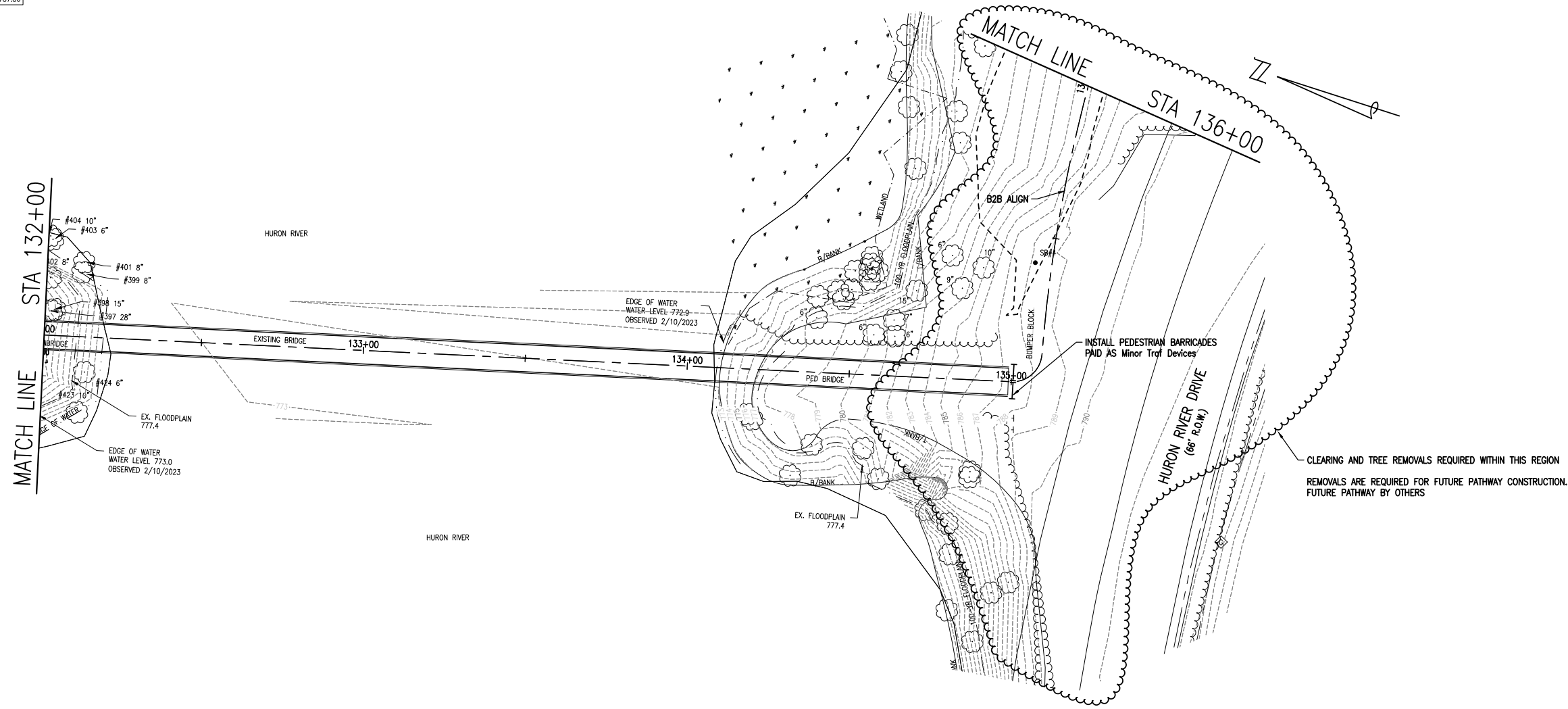
NO.	DATE	DESCRIPTION

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA ##### TO STA #####



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SOIL BORING #4
 N 293018.00
 E 13290528.00 ELEV 787.86



DRAWING PATH: P:\1000_1989\1022\80010_Bandemer-Barton_Trail\Drawings\Civil\Plans_Constr\80010CON3.dwg Sep 20, 2023 - 12:19pm

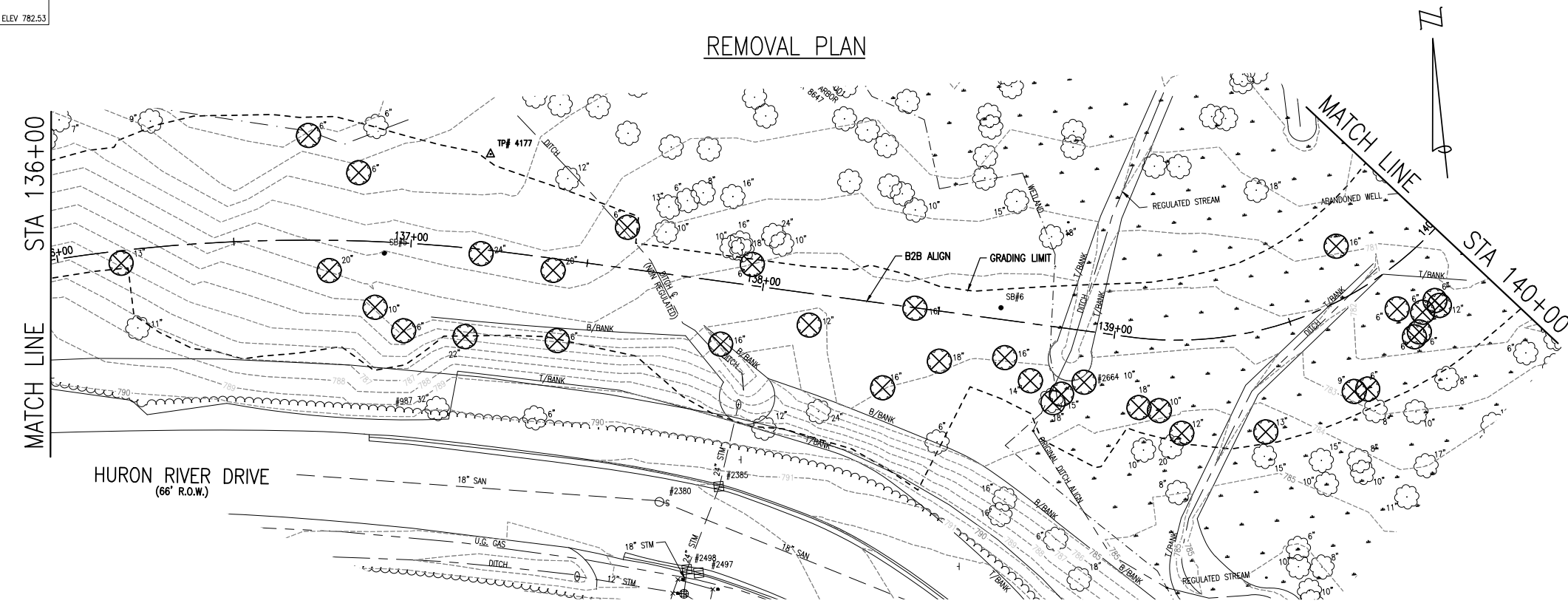
REVISIONS:

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/TOWNSHIP	HORIZ DATUM	VERT DATUM
9/18/2023	1022-86011	MB	CE	JK	WASHTENAW	CITY OF ANN ARBOR	NAD83	NAVD88
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC BARTON NATURE AREA BORDER TO BORDER TRAIL							CONSTRUCTION PLAN	
STA 132+00 TO STA 136+00							STA 132+00 TO STA 136+00	



SOIL BORING #5
 N 293009.00
 E 13290678.00 ELEV 781.05
 SOIL BORING #6
 N 292975.00
 E 13290849.00 ELEV 782.53

REMOVAL PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
4	Ea	Tree, Rem, 19 inch to 36 inch
31	Ea	Tree, Rem, 6 inch to 18 inch

- LEGEND
- Tree, Rem, _____
 - Erosion Control, Inlet Protection, Fabric Drop
 - Erosion Control, Silt Fence
 - Turf Establishment, Native Seed Mix, _____, Performance
 - CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

ARCHITECTS ENGINEERS PLANNERS
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 Livonia, MI 48150
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REVISIONS:

NO. 1
 DATE

DATE 9/18/2023
 PROJ NUMBER 1022-06001
 ENG MB
 PROJ MGR CE
 CAD JK
 COUNTY WASHTENAW
 CITY/TOWNSHIP CITY OF ANN ARBOR
 SCALE H. 1"=20'
 V. N/A
 HORIZ DATUM NAD83
 VERT DATUM NAVD88

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA ##### TO STA #####

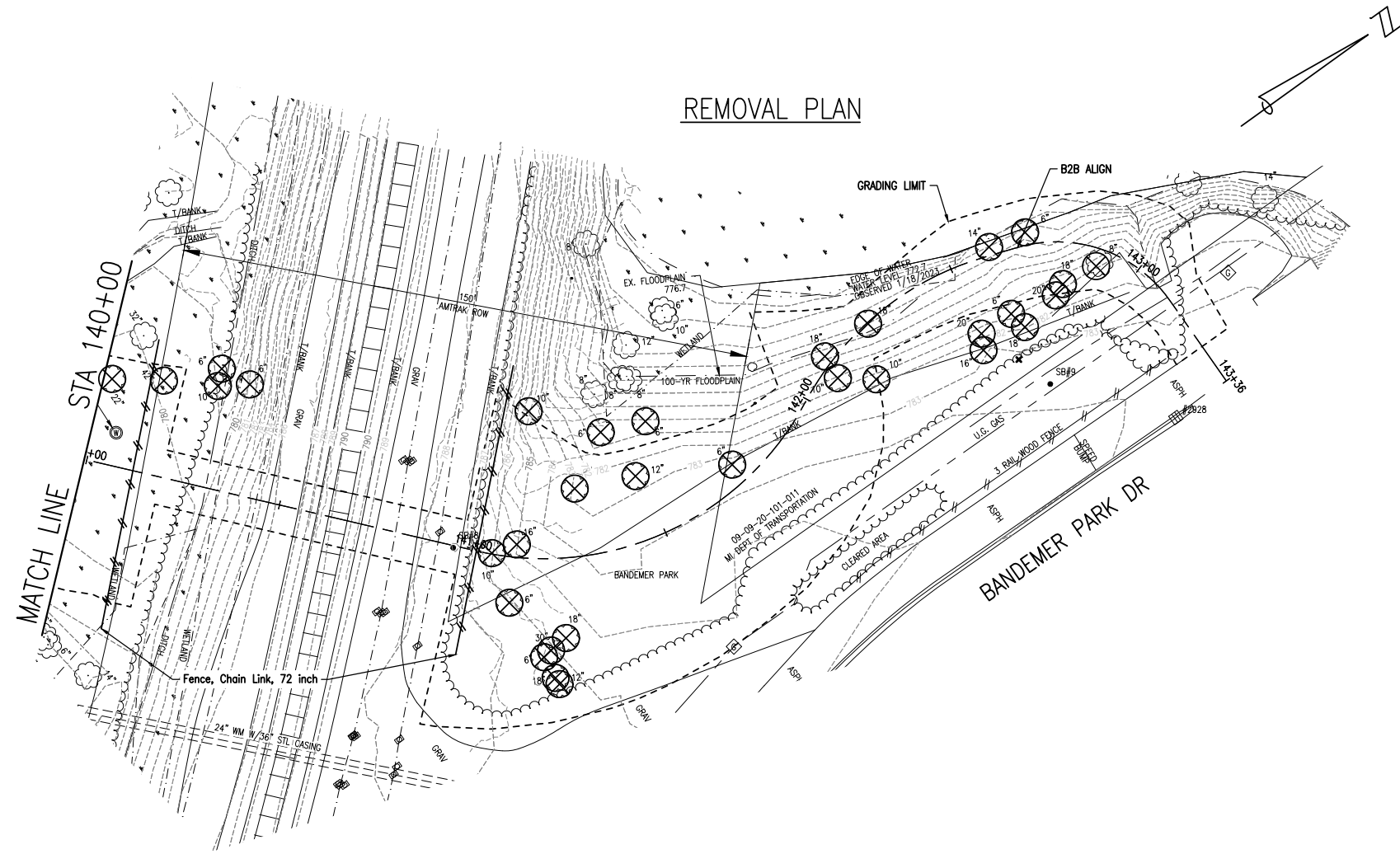


DRAWING PATH: P:\1000_1989\1022\060010_BandemerBarton_TrailDrawings\CivilPlans_Constr\060010GRD_RES_03.dwg Sep 20, 2023 - 12:14pm

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SOIL BORING #8
 N 293047.00
 E 13291046.00 ELEV 787.46
 SOIL BORING #9
 N 293194.00
 E 13291101.00 ELEV 783.64

REMOVAL PLAN



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
4	Ea	Tree, Rem, 19 inch to 36 inch
1	Ea	Tree, Rem, 37 inch or Larger
27	Ea	Tree, Rem, 6 inch to 18 inch
150	Ft	Fence, Chain Link, 72 inch

- LEGEND
- Tree, Rem, _____
 - Erosion Control, Inlet Protection, Fabric Drop
 - Erosion Control, Silt Fence
 - Turf Establishment, Native Seed Mix, _____, Performance
 - CONCRETE SHARED USE PATH
SEE DETAIL SHEET 6

NOTE:
 Fence, Chain Link, 72 inch TO BE INSTALLED AS DIRECTED BY THE ENGINEER TO PREVENT ACCESS TO RAILROAD RIGHT-OF-WAY WITHIN THE TREE REMOVAL LIMITS.

DRAWING PATH: P:\1000_1989\1022\80010_BandemerParkon_TrailDrawings\CivilPlans_Constr\80010GRD_RES_03.dwg Sep 20, 2023 - 12:14pm



Know what's below.
 Call before you dig.

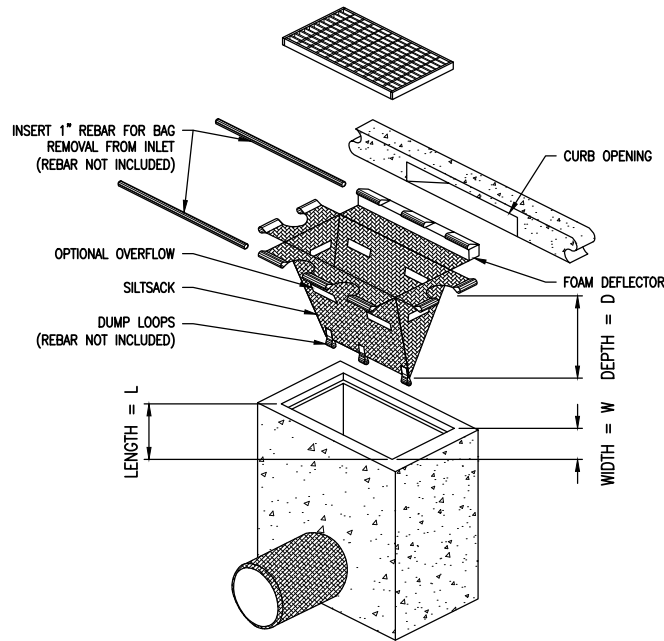
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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON NATURE AREA BORDER TO BORDER TRAIL
 REMOVAL, GRADING AND EROSION CONTROL PLAN
 STA ##### TO PDE

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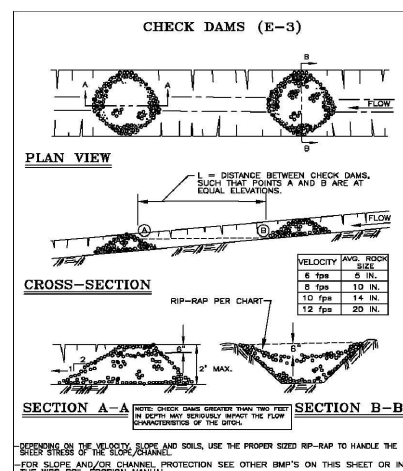
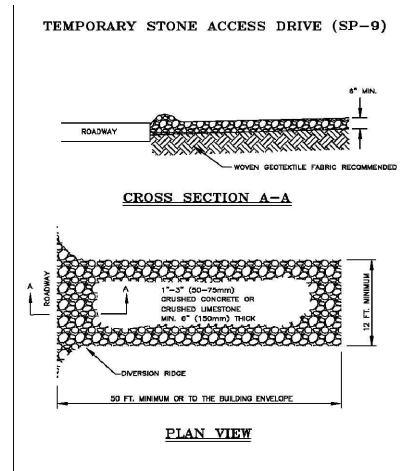
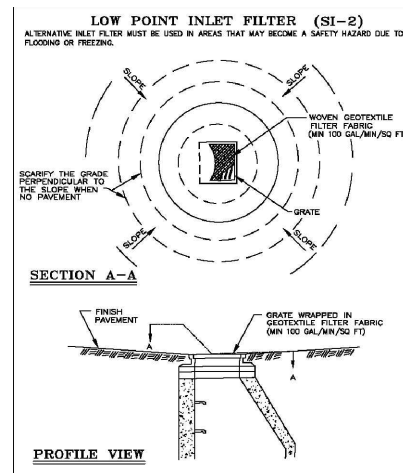
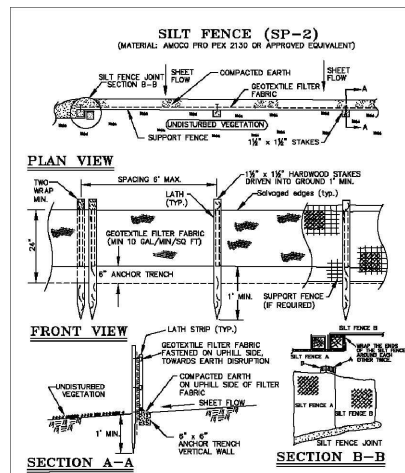
SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT OF THE STATE OF MICHIGAN, PART 91 OF ACT 451, OF THE PUBLIC ACTS OF 1994 AND THE REQUIREMENTS OF THE CITY OF ANN ARBOR.
2. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN A MANNER THAT WILL REDUCE ACCELERATED EROSION TO THE PRACTICAL MINIMUM AND PREVENT DAMAGING SILTATION TO EXISTING SEWERS AND WATER COURSES LEADING FROM THE WORK SITE.
3. THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT THE ENTRY OF FUELS, OILS, BITUMINOUS MATERIALS, CHEMICALS, SEWERAGE OR OTHER HARMFUL MATERIALS INTO NEARBY LAKES AND STREAMS.
4. WASTE DISPOSAL AREAS SHALL BE SELECTED BY THE CONTRACTOR WITH FULL CONSIDERATION OF EROSION AND SEDIMENT CONTROL, SELECTION OF DISPOSAL SITE, AND CONTROL OF OPERATIONS, AND THE RESTORATION OF SAID AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. EXCAVATION FROM THE RIGHT-OF-WAY, CHANNELS, OR OTHER MATERIAL SHALL NOT BE DEPOSITED IN OR NEAR RIVERS, STREAMS OR PONDS WHERE IT MAY ENTER THE WATERWAY.
6. AT THE COMPLETION OF EACH DAY'S CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE THAT MINIMAL EROSION WILL OCCUR IN TRENCHES AND TO STOCKPILED MATERIALS UNTIL RESUMPTION OF WORK.
7. CONTRACTOR SHALL CONFINE OPERATIONS TO THE MINIMUM AMOUNT OF WORKING SPACE PRACTICAL TO MINIMIZE SOIL EROSION.
8. THE PROJECT WILL BE CONTINUALLY INSPECTED BY THE ENGINEER FOR EROSION CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY UPON NOTICE OF SUCH DEFICIENCIES. FAILURE TO CORRECT THE DEFICIENCIES MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND THERE WILL BE NO CONTRACT TIME EXTENSION GRANTED FOR THIS TYPE OF STOPPAGE.
9. TEMPORARY SOIL EROSION CONTROL MEASURES CONSISTING OF SILT FENCE, MULCHING, AND TARPING SHALL BE IMPLEMENTED THROUGHOUT THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT, AND SHALL BE REMOVED BY THE CONTRACTOR AFTER THE PERMANENT SOIL EROSION MEASURES HAVE BEEN COMPLETED.
10. THE CONTRACTOR SHALL INSPECT SILT FENCE AFTER EACH RAIN EVENT AND REPAIR POSTS AND FABRIC THAT HAVE BEEN DAMAGED AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. STRAW MULCH WITH NETTING TIE DOWN, HIGH VELOCITY MULCH BLANKET OR OTHER APPROVED MULCH SHALL BE PLACED ON DISTURBED SLOPES WHERE DIRECTED BY THE ENGINEER.
12. PERMANENT SOIL EROSION MEASURES CONSISTING OF A VARIETY OF NATIVE SEED MIXES, TURF GRASS AND MULCH BLANKET SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS OF FINAL GRADING. IN THE EVENT IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE THE AREA DUE TO SITE CONDITIONS AND/OR SEASONAL LIMITATIONS, THE TEMPORARY MEASURES SHALL REMAIN IN FORCE AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS IT IS PRACTICAL TO COMPLETE THE PERMANENT SOIL EROSION CONTROL MEASURES. REFER TO TURF ESTABLISHMENT PROVISION FOR ADDITIONAL DETAILS.
13. THE ENGINEER SHALL HAVE FULL AUTHORITY TO TEMPORARILY SUSPEND WORK IN THE EVENT THAT ANY OF THE ABOVE REQUIREMENTS ARE NOT BEING MET BY THE CONTRACTOR, OR IF CONDITIONS INDICATE THAT ADDITIONAL TEMPORARY CONTROL MEASURES ARE WARRANTED, IN THE OPINION OF THE ENGINEER.
14. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL INSTALL INLET FILTERS AT ALL INLETS IN THE CONSTRUCTION AREA PER STANDARD SPECIFICATION DETAIL DRAWING SI-2 AND SI-4, INLET FILTER. ALL OTHER SESC MEASURES TO BE IN PLACE PRIOR TO START OF CONSTRUCTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TEMPORARY ROAD SURFACE AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT.
16. ALL WORK TO BE COMPLETED WITHIN EXISTING RIGHT-OF-WAY AND/OR EASEMENTS.
17. WASHTENAW COUNTY PARKS AND RECREATION COMMISSION TO MAINTAIN PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION OF PROJECT.



EROSION CONTROL, INLET PROTECTION, FABRIC DROP

NOT TO SCALE



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Livonia, MI 48150
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REVISIONS:

CITY/TOWNSHIP: N/A
COUNTY: WASHTENAW
SCALE: 1"=20'
DATE: 02/20/22
PROJECT: CITY OF ANN ARBOR
PROJECT NUMBER: 1025-16-011
ENGINEER: MB
CITY/TOWNSHIP: N/A
COUNTY: WASHTENAW
SCALE: 1"=20'
DATE: 02/20/22
PROJECT: CITY OF ANN ARBOR
PROJECT NUMBER: 1025-16-011
ENGINEER: MB

**CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON NATURE AREA BORDER TO BORDER TRAIL
SESC DETAIL**



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