



CUYAHOGA RIVER
CREATION OF NEW RIVER BEND 6
CUYAHOGA VALLEY NATIONAL PARK
BRECKSVILLE, OHIO

SOLICITATION NO.: W912P424BXXXX
CONTRACT NO.: CONTRACT NO
ISSUE DATE: OCTOBER 2024

THIS PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

THE INITIALS AND SIGNATURES AFFIXED TO THIS SHEET
INDICATE OFFICIAL RECOMMENDATION AND APPROVAL
OF ALL BUFFALO DISTRICT DRAWINGS WITHIN THIS
PROJECT SET AS INDEXED ON THE FOLLOWING SHEET.

APPROVED BY:

CHIEF, TECHNICAL SERVICES DIVISION, P.E.

DATE _____

APPROVAL RECOMMENDED BY:

CHIEF, CIVIL/STRUCTURAL DESIGN TEAM, P.E.

DATE _____

CHIEF, DESIGN BRANCH, P.E.

DATE _____

[illegible]

U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT 1700 N. GARDEN STREET BUFFALO, NY 14207	DRAWN BY:	UNIONED BY: PDT 10 OCTOBER 2023
	CHECKED BY:	SIGATURE: CONTRACT NO.:
	SUBMITTED BY:	P2 PROJECT NO.:
	D. TELLINGHUISEN, P.E.	477210
	SIZE:	
	INCHES	

CREATION OF NEW RIVER BEND 6
CUYAHOGA VALLEY NATIONAL PARK
BRECKSVILLE, OHIO

COVER SHEET

SHEET ID

G-001



GENERAL SHEET NOTES

1. FOR GENERAL NOTES, SEE SHEET G-002.



**U.S. Army Corps
Engineers®**

[illegible]

1776 NIAGARA STREET BUFFALO, NY 14207	DRAWN BY:	W512P424BXXXX
	CHECKED BY:	CONTRACT NO.:
	DWG. DATE:	CONTRACT NO.:
	QUANTITY BY:	P2 PROJECT NO.:
	D. TELLINGHUISEN, P.E.	477210
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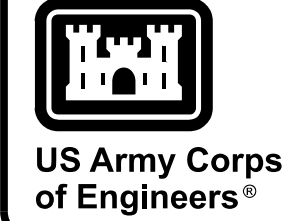
COMMISSION ON THE NEW RIVER Gorge
CUYAHOGA VALLEY NATIONAL PARK
BRECKSVILLE, OHIO

SHEET ID

C-101



1. FOR GENERAL NOTES, SEE SHEET G-002.
2. ALL WORK SHOWN ON THIS SHEET IS TO BE CONSTRUCTED DURING YEAR 1.
3. FOR CONTINUATION OF UPSTREAM END OF BEND 6 CHANNEL TO BE CONSTRUCTED IN YEAR 3, SEE SHEET C-106.
4. THE LEFT BANK CHANNEL SIDESLOPE VARIES UPSTREAM OF STATION 17+77 AND IS TO BE CONSTRUCTED PER THE LANDXML SURFACE MODEL FILE ATTACHED TO THE CONTRACT SPECIFICATIONS.
5. FILL BRANDYWINE CREEK WITH EARTH FILL TO APPROXIMATE EXISTING ELEVATION 640 CONTOUR AS SHOWN ON THE PLAN. CONTRACTOR TO STAKE FILL LIMITS THAT ARE OUTSIDE OF BEND 6 CHANNEL EXCAVATION EVERY 25 FEET PRIOR TO PLACING EARTH FILL.
6. AREAS OF BRANDYWINE FILLED PER NOTES 5 EXCEPT ALL AREAS WITHIN 20 FEET OF TOP OF NEW CHANNEL SIDESLOPES AND ALL AREAS TO BE EXCAVATED IN YEAR 1 MUST BE PROTECTED OR STOCKPILING EXCAVATED SOILS TO BE USED FOR EARTH FILL DURING YEAR 3 CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PERFORMING CONSTRUCTION SEQUENCE OF THE WORK SHOWN ON THE PLAN ON THIS SHEET AS NECESSARY TO MAINTAIN FLOW OF BRANDYWINE CREEK INTO THE CUYAHOGA RIVER. FINAL CONSTRUCTION HAS BRANDYWINE CREEK FLOWING INTO THE NEW BEND 6 CHANNEL AND THEN INTO THE CUYAHOGA RIVER.

[illegible]

U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT 1776 NAGARA STREET BUFFALO, NY 14207	DESIGNED BY: DOT	ISSUE DATE: OCTOBER 2024
	DRAWN BY: W312P242BX0000	SOLICITATION NO.:
	CHECKED BY: DAB, DOT	CONTRACT NO.:
	SUBMITTED BY: D. TELLINGHUISEN, P.E.	P2 PROJECT NO.:
	SIZE:	477210

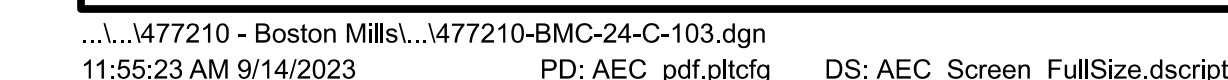
CUYAHOGA RIVER
CREATION OF NEW RIVER BEND 6
CUYAHOGA VALLEY NATIONAL PARK
BRECKSVILLE, OHIO

BEND 6 YEAR 1 PLAN OF NEW WORK

SHEET ID

C-102

PRELIMINARY SUBMITTAL INITIAL BCOES/ATR



1. FOR GENERAL NOTES, SEE SHEET C-502.
2. ALL WORK SHOWN ON THIS SHEET IS TO BE CONSTRUCTED DURING YEAR 3 EXCEPT FOR WORK PREVIOUSLY CONSTRUCTED IN YEAR 1 AS SHOWN ON SHEET C-105.
3. THE LEFT BANK CHANNEL SIDESLOPE VARIES DOWNSTREAM OF STATION 5+43 AND IS TO BE CONSTRUCTED PER THE LANDXML SURFACE MODEL FILE ATTACHED TO THE CONTRACT SPECIFICATIONS.
4. A TOTAL OF 30 ROOTWAD TREES ARE REQUIRED AT BEND 6. THE ROOTWAD TREES ARE TO BE HORIZONTALLY ALIGNED PER THE CENTERLINE COORDINATES GIVEN IN THE TABLE ON THIS SHEET. REQUIREMENTS FOR LOCATING THE ROOTWAD PORTION OF THE TREE WITH RESPECT TO THE FACE OF THE OUTER RIPRAP SIDESLOPE ARE GIVEN ON SHEET C-502. THE VERTICAL CENTERLINE OF ALL BEND 6 ROOTWAD TREES IS TO BE AT EL. 632.0.
5. EXISTING SHOAL MATERIAL WITHIN THE LIMITS OF NEW CHANNEL EXTENSION OUTSIDE OF THE SHOAL REMOVAL AREAS SHOWN ON THE PLAN MEETING THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS FOR STONE FILL MAY BE USED FOR STONE FILL AT BEND 6.
6. CONSTRUCT 4 HABITAT PILES IN THE AREA WHERE THE EXISTING BRACKISHWINE CREEK CHANNEL HAS BEEN FILLED. CONSTRUCT HABITAT PILES ONLY AFTER ANY AND ALL STOCKPILED EARTH FILL HAS BEEN REMOVED AND THE AREA LEVELED TO EL. 640.0. LOCATIONS OF THE BRUSH PILES TO BE DETERMINED IN THE FIELD BY THE CONTRACTING OFFICER. SEE CONTRACT SPECIFICATIONS FOR HABITAT PILE CONSTRUCTION REQUIREMENTS.
7. THE YEAR 3 BERM THAT CONNECTS TO THE YEAR 1 BERM IS TO HAVE THE SAME TOP ELEVATION AND GEOMETRY AS THE YEAR 1 BERM.
8. BEFORE PLACING ANY FILLS ON THE CUYAHOGA RIVER BOTTOM BOTTOM AND BANKS, REMOVE ANY AND ALL EXISTING FALLEN TREES, BRANCHES, DEBRIS AND TRASH UNLESS DIRECTED OTHERWISE BY THE CONTRACTING OFFICER.

NOTE: STATIONS, COORDINATES, RADII, LENGTH AND TANGENT ARE IN FEET.

TABLE NOTES:

1. WHERE SHOWN IN TABLE TO VARY, WIDTH AND V-DEPTH TO VARY UNIFORMLY BETWEEN SPECIFIED STATIONS.
2. V-DEPTH SPECIFIED OCCURS AT CHANNEL BOTTOM CENTERLINE.

ROOTWAD TREE HORIZONTAL CENTERLINE COORDINATES				
NUMBER	CHANNEL END		LAND END	
	EASTING	NORTHING	EASTING	NORTHING
1	2225081.389	592153.680	2225105.537	592160.151
2	2225096.630	592148.924	2225120.778	592155.394
3	2225109.691	592143.998	2225133.839	592150.468
4	2225120.440	592139.299	2225144.697	592145.349
5	2225129.869	592134.684	2225154.868	592134.995
6	2225144.214	592126.657	2225169.212	592126.968
7	2225156.234	592118.952	2225181.223	592119.703
8	2225167.627	592110.715	2225192.514	592108.346
9	2225177.982	592102.299	2225202.782	592099.145
10	2225187.358	592093.844	2225211.953	592089.366
11	2225195.178	592086.096	2225219.773	592081.611
12	2225203.749	592076.769	2225227.937	592070.447
13	2225212.506	592066.173	2225236.693	592059.851
14	2225220.291	592055.643	2225245.006	592051.882
15	2225227.934	592044.039	2225252.649	592040.279
16	2225233.673	592034.345	2225267.817	592027.857
17	2225239.967	592022.347	2225264.833	592019.759
18	2225245.258	592010.868	2225269.735	592005.784
19	2225249.453	592000.564	2225272.994	591992.148
20	2225253.382	591989.463	2225276.505	591979.959
21	2225257.129	591978.906	2225280.272	591967.452
22	2225260.136	591964.536	2225284.220	591957.831
23	2225262.433	591952.479	2225284.369	591940.489
24	2225264.148	591940.391	2225279.756	591920.863
25	2225265.158	591929.184	2225274.944	591906.180
26	2225265.817	591914.577	2225275.793	591891.653
27	2225265.611	591900.967	2225274.349	591877.543
28	2225264.651	591887.205	2225273.934	591863.992
29	2225262.822	591872.805	2225271.488	591849.356
30	2225260.377	591859.201	2225271.007	591836.131

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U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT 1776 NIAGARA STREET BUFFALO, NY 14207	DESIGNED BY:	ISSUE DATE:
	PREPARED BY:	PROJECT NO. 477210
	CHECKED BY:	SOLICITATION NO.:
	DRAWN BY:	W912P242BXXXXX
	DAB, DDT	CONTRACT NO.:
	SUBMITTED BY:	P2 PROJECT NO.:
	WILKINSON, P.E.	477210
	SIZE:	ANSI D

CUYAHOGA RIVER
CREATION OF NEW RIVER BEND 6
CUYAHOGA VALLEY NATIONAL PARK
BRECKSVILLE, OHIO

BEND 6 YEAR 3 PLAN OF NEW WORK

SHEET ID

C-103

PRELIMINARY SUBMITTAL INITIAL BCOES/ATR

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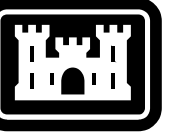
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GENERAL SHEET NOTES

1. FOR GENERAL NOTES, SEE SHEET G-002.
2. ALL VEGETATION PLANTING ZONES SHOWN ON THIS SHEET ARE FOR VEGETATION TO BE PLANTED DURING YEAR 1.
3. FOR DETAILED PLAN OF BEND 6 YEAR 1 CHANNEL CONSTRUCTION REQUIREMENTS, SEE SHEET C-105.
4. SEE CONTRACT SPECIFICATIONS FOR VEGETATION PLANTING REQUIREMENTS FOR ALL VEGETATION PLANTING ZONES SHOWN ON THE PLAN ON THIS SHEET.

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U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT ATTENTION: DISTRICT PROJECT BUFFALO, NY 14207	DESIGNED BY: P.D.T. DRAWN BY: W912P2A42BX XXX CHECKED BY: C. H. HARRIS SUBMITTED BY: D. TELLINGHUISEN, P.E. SIZE: 477210	ORDERED BY: OCTOBER 2024 SOLICITATION NO.: W912P2A42BX XXX CONTRACT NO.: W912P2A42BX XXX PROJECT NO.: 477210
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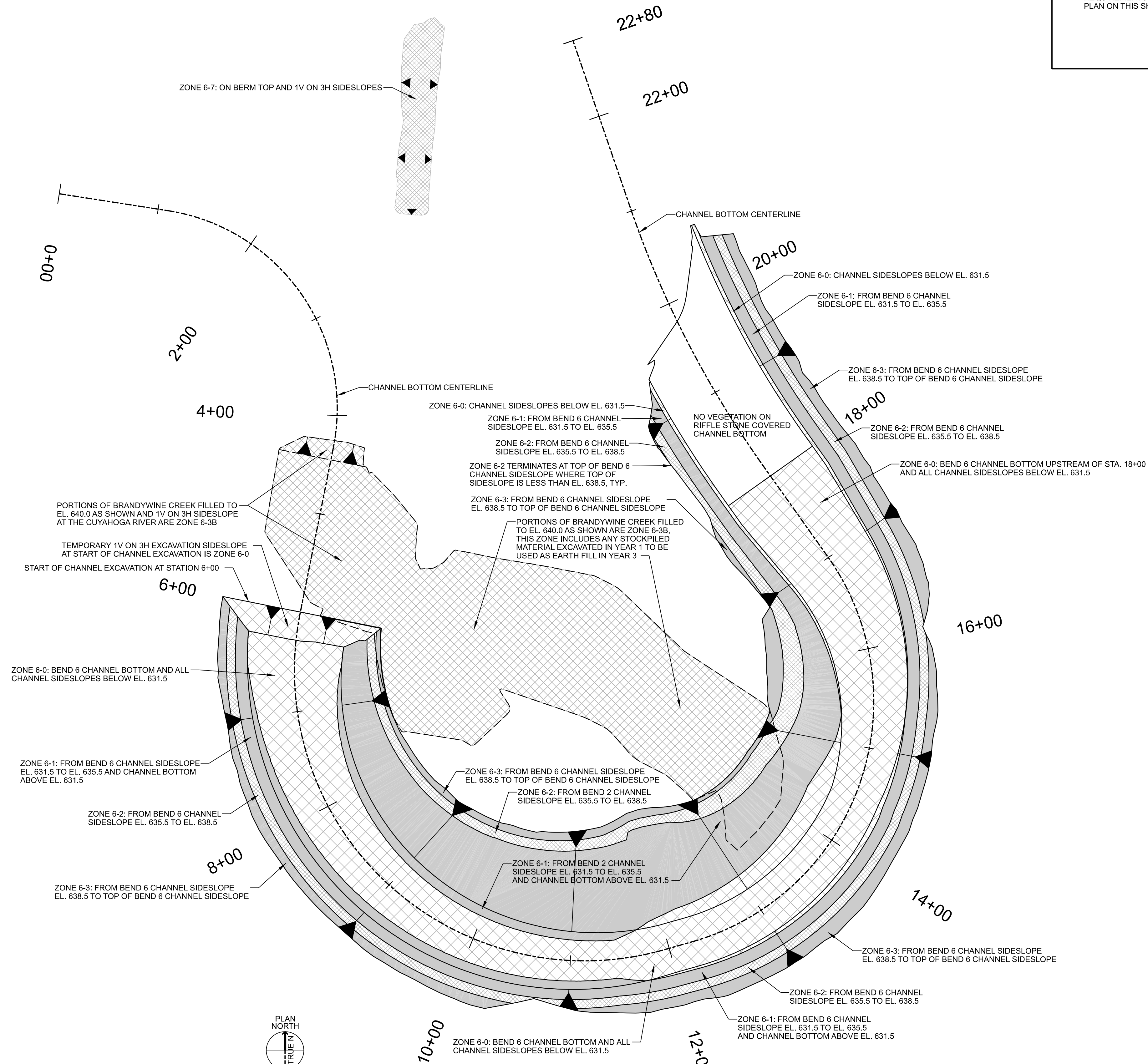
CUYAHOGA RIVER
CREATION OF NEW RIVER BEND 6
CUYAHOGA VALLEY NATIONAL PARK
BRECKSVILLE, OHIO

BEND 6 YEAR 1

PLAN OF VEGETATION PLANTING ZONES

SHEET ID

C-104



A1 BEND 6 YEAR 1 PLAN OF VEGETATION PLANTING ZONES
SCALE: 1" = 60'

SCALE: 1" = 60'

0 60' 120

**U.S. Army Corps
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1776 NIAGARA STREET
BUFFALO, NY 14207

SHEET ID

A ————— B ————— C



SCALE: 1" = 60'

