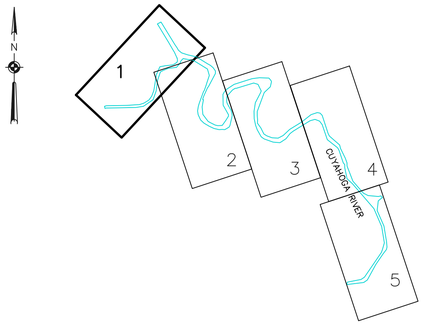


SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
18.0	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)

SITE SPECIFIC NOTES

1.PROJECT DEPTHS AND SOUNDINGS ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET ABOVE INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85).

2.HORIZONTAL COORDINATES ARE U.S. SURVEY FEET REFERRED TO NORTH AMERICAN DATUM 1983/2011 (NAD83/11) OHIO STATE PLANE COORDINATE SYSTEM – NORTH ZONE.

3.PROJECT DEPTH IS AS NOTED BELOW LOW WATER DATUM.

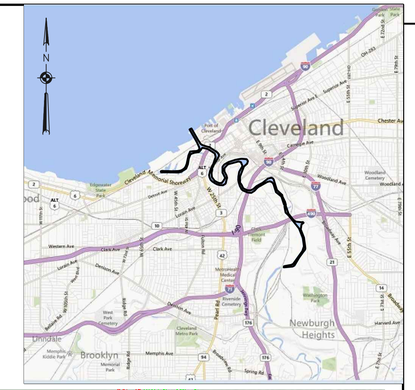
4.SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 44' X 18' HYPACK MATRIX.

5.SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY C.STRONG AND PARTY DURING APRIL 30 THRU MAY 4, 2020 USING:
GPS POSITIONING, POS–MV VER. 5 AND RTK TIDES
SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULTIBEAM
1.0 DEGREE BEAMS 150 DEGREE ARC
HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
VELOCITY PROFILER; SONTEK CASTAWAY CTD,
HYPACK SURVEY SOFTWARE
SURVEY VESSEL MONSON

6.THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.

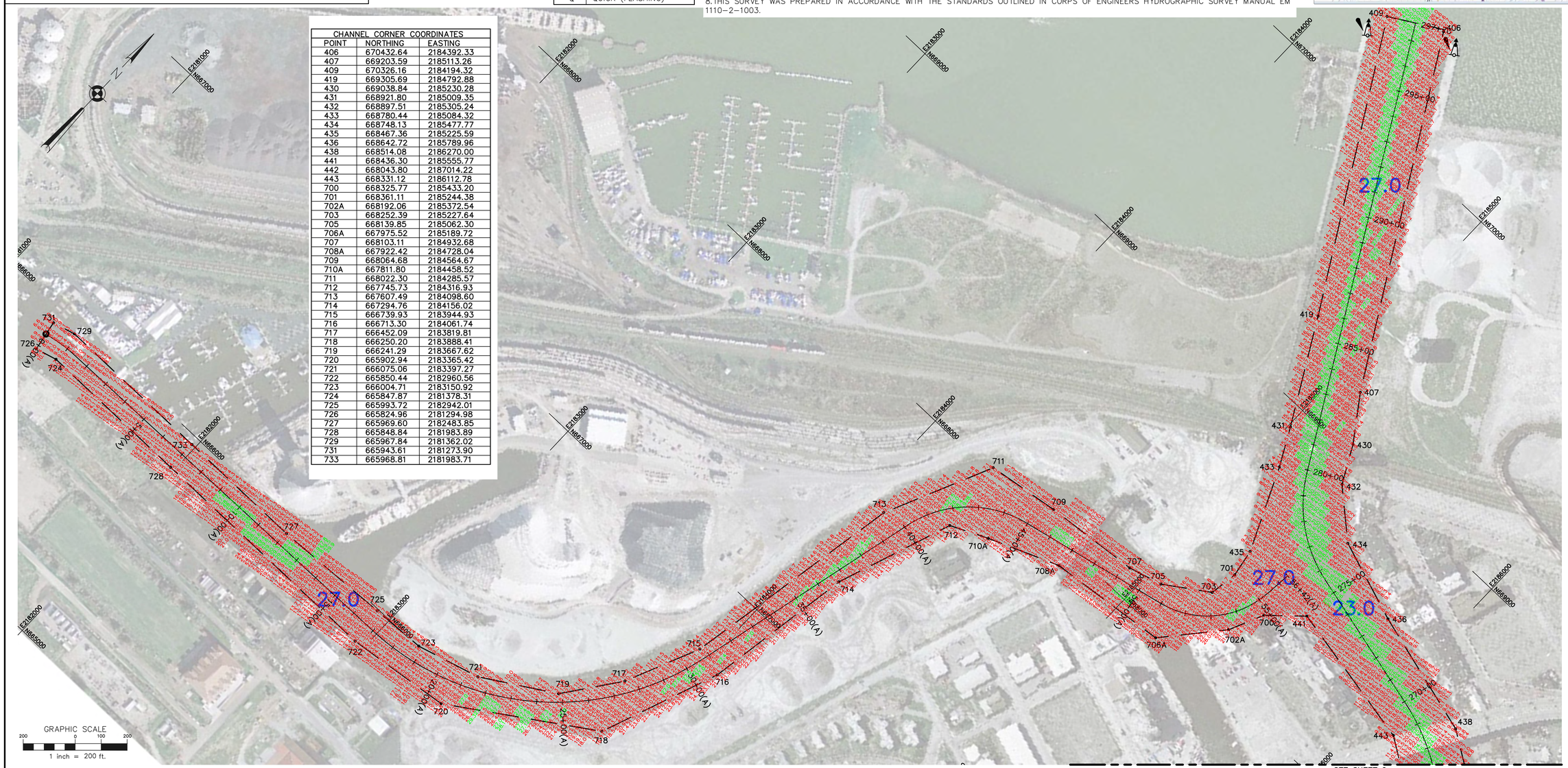
7.THE BACKGROUND IMAGERY SHOWN WAS ACQUIRED FROM THE OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM.

8.THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.



CHANNEL CORNER COORDINATES

POINT	NORTHING	EASTING
406	670432.64	2184392.33
407	669203.59	2185113.26
409	670326.16	2184194.32
419	669305.69	2184792.88
430	669038.84	2185230.28
431	668921.80	2185009.35
432	668897.51	2185305.24
433	668780.44	2185084.32
434	668748.13	2185477.77
435	668467.36	2185225.59
436	668642.72	2185789.96
438	668514.08	2186270.00
441	668436.30	2185555.77
442	668043.80	2187014.22
443	668331.12	2186112.78
700	668325.77	2185433.20
701	668361.11	2185244.38
702A	668192.06	2185372.54
703	668252.39	2185227.64
705	668139.85	2185062.30
706A	667975.52	2185189.72
707	668103.11	2184932.68
708A	667922.42	2184728.04
709	668064.68	2184564.67
710A	667811.80	2184458.52
711	668022.30	2184285.57
712	667745.73	2184316.93
713	667607.49	2184098.60
714	667294.76	2184156.02
715	666739.93	2183944.93
716	666713.30	2184061.74
717	666452.09	2183819.81
718	666250.20	2183888.41
719	666241.29	2183667.62
720	665902.94	2183365.42
721	666075.06	2183397.27
722	665850.44	2182960.56
723	666004.71	2183150.92
724	665847.87	2181378.31
725	665993.72	2182942.01
726	665824.96	2181294.98
727	665969.60	2182483.85
728	665848.84	2181983.89
729	665967.84	2181362.02
731	665943.61	2181273.90
733	665968.81	2181983.71



US Army Corps of Engineers
Buffalo District

DATE	REVISION

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: ADK
Checked by: KPL
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved: Adam W. Hamm, PE
Chief, NY–PA O & M Office

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

To download an electronic version of this map, point a web browser to http://www.lrb.usace.army.mil/WebWater/NoticeAgent/survey/survey.html

CLEVELAND, OHIO
CUYAHOGA RIVER
PROJECT SOUNDINGS 2020

SCALE: 1" = 200'

Sheet reference number
VH–101
Sheet 1 of 5

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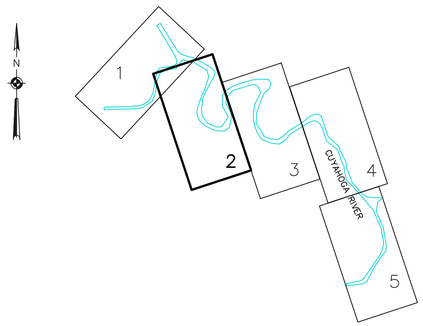

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
18.0	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)

SITE SPECIFIC NOTES

1.PROJECT DEPTHS AND SOUNDINGS ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET ABOVE INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85).

2.HORIZONTAL COORDINATES ARE U.S. SURVEY FEET REFERRED TO NORTH AMERICAN DATUM 1983/2011 (NAD83/11) OHIO STATE PLANE COORDINATE SYSTEM – NORTH ZONE.

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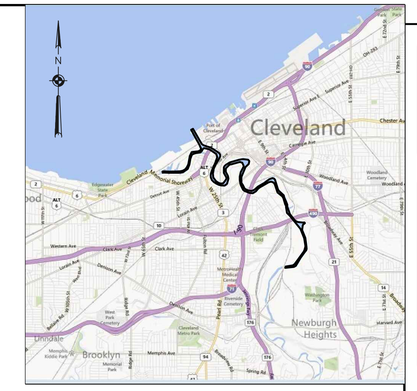
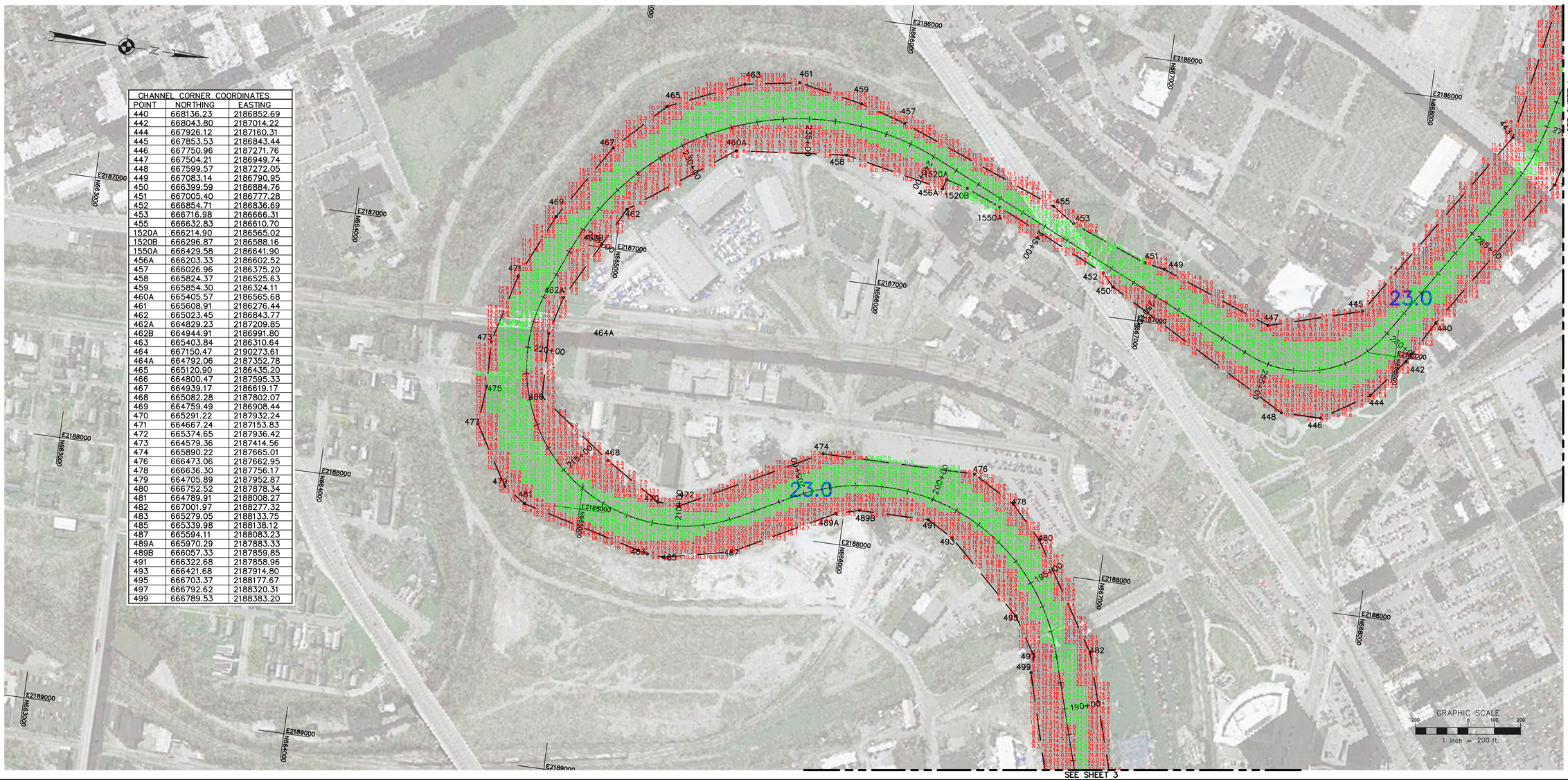
GPS POSITIONING, POS–MV VER. 5 AND RTK TIDES
SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULTIBEAM
1.0 DEGREE BEAMS 150 DEGREE ARC
HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
VELOCITY PROFILER; SONTEK CASTAWAY CTD,
HYPACK SURVEY SOFTWARE
SURVEY VESSEL MONSON

6.THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.

7.THE BACKGROUND IMAGERY SHOWN WAS ACQUIRED FROM THE OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM.

8.THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.





CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
440	668136.23	2186852.69
442	668043.80	2187014.22
444	667926.12	2187160.31
445	667853.53	2186843.44
446	667750.96	2187271.76
447	667504.21	2186949.74
448	667599.57	2187272.05
449	667083.14	2186790.95
450	666399.59	2186884.76
451	667005.40	2186777.28
452	666854.71	2186836.69
453	666716.98	2186666.31
455	666632.83	2186610.70
1520A	666214.90	2186565.02
1520B	666296.87	2186588.16
1550A	666429.58	2186641.90
456A	666203.33	2186602.52
457	666026.96	2186375.20
458	665824.37	2186525.63
459	665854.30	2186324.11
460A	665405.57	2186565.68
461	665608.91	2186276.44
462	665023.45	2186843.77
462A	664829.23	2187209.85
462B	664944.91	2186991.80
463	665403.84	2186310.64
464	667150.47	2190273.61
464A	664792.06	2187352.78
465	665120.90	2186435.20
466	664800.47	2187595.33
467	664939.17	2186619.17
468	665082.28	2187802.07
469	664759.49	2186908.44
470	665291.22	2187932.24
471	664667.24	2187153.83
472	665374.65	2187936.42
473	664579.36	2187414.56
474	665890.22	2187665.01
476	666473.06	2187662.95
478	666636.30	2187756.17
479	664705.89	2187952.87
480	666752.52	2187878.34
481	664789.91	2188008.27
482	667001.97	2188277.32
483	665279.05	2188133.75
485	665339.98	2188138.12
487	665594.11	2188083.23
489A	665970.29	2187883.33
489B	666057.33	2187859.85
491	666322.68	2187858.96
493	666421.68	2187914.80
495	666703.37	2188117.67
497	666792.62	2188320.31
499	666789.53	2188383.20

US Army Corps of Engineers
Buffalo District

REVISION	DATE

Original sheet size = ANSI D

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Drawn by: ACK
Checked by: KPL
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved: Adam W. Hamm, PE
Chief, NY–PA O & M Office

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

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CLEVELAND, OHIO
CUYAHOGA RIVER
PROJECT SOUNDINGS 2020
SCALE: 1" = 200'

Sheet reference number
VH–102
Sheet 2 of 5

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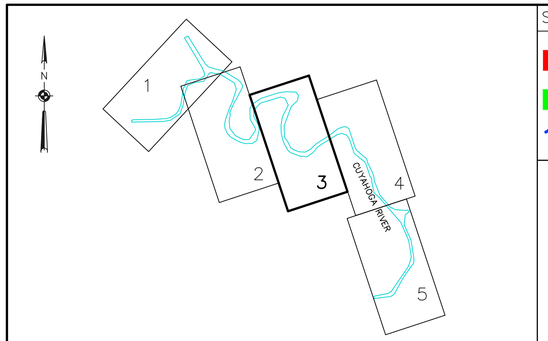

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
18.0	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)

SITE SPECIFIC NOTES

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GPS POSITIONING, POS–MV VER. 5 AND RTK TIDES
SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULTIBEAM
1.0 DEGREE BEAMS 150 DEGREE ARC
HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
VELOCITY PROFILER; SONTEK CASTAWAY CTD,
HYPACK SURVEY SOFTWARE
SURVEY VESSEL MONSON

6.THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.

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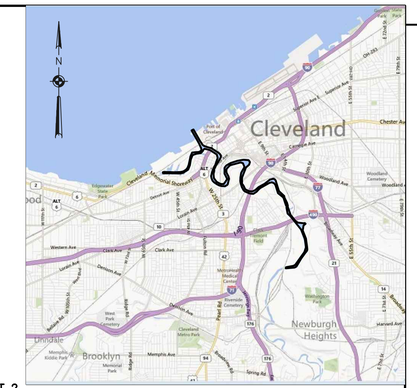
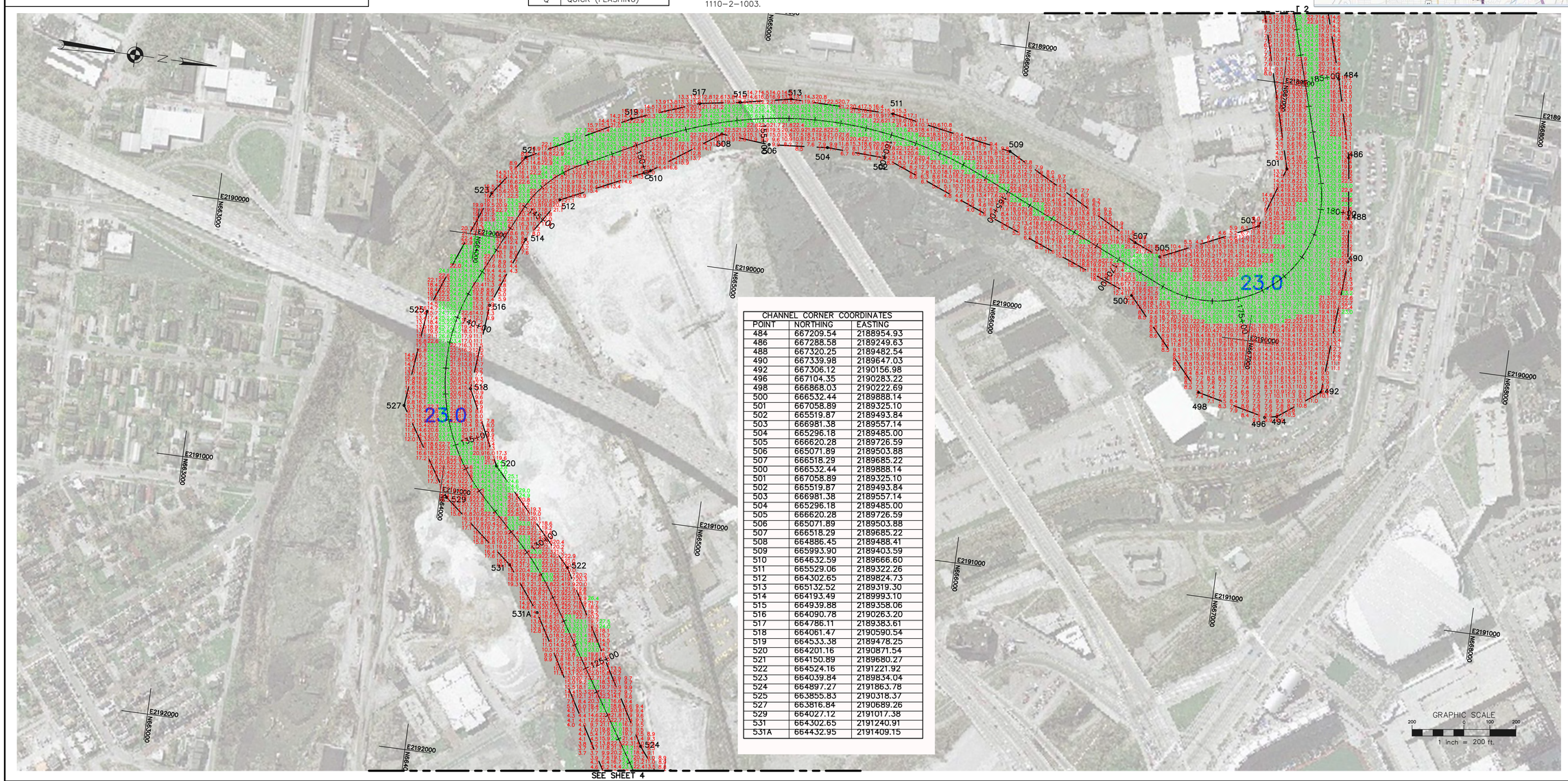
8.THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.





CHANNEL CORNER COORDINATES

POINT	NORTHING	EASTING
484	667209.54	2188954.93
486	667288.58	2189249.63
488	667320.25	2189482.54
490	667339.98	2189647.03
492	667306.12	2190156.98
496	667104.35	2190283.22
498	666868.03	2190222.69
500	666532.44	2189888.14
501	667058.89	2189325.10
502	665519.87	2189493.84
503	666981.38	2189557.14
504	665296.18	2189485.00
505	666620.28	2189726.59
506	665071.89	2189503.88
507	666518.29	2189685.22
500	666532.44	2189888.14
501	667058.89	2189325.10
502	665519.87	2189493.84
503	666981.38	2189557.14
504	665296.18	2189485.00
505	666620.28	2189726.59
506	665071.89	2189503.88
507	666518.29	2189685.22
508	664886.45	2189488.41
509	665993.90	2189403.59
510	664632.59	2189666.60
511	665529.06	2189322.26
512	664302.65	2189824.73
513	665132.52	2189319.30
514	664193.49	2189993.10
515	664939.88	2189358.06
516	664090.78	2190263.20
517	664786.11	2189383.61
518	664061.47	2190590.54
519	664533.38	2189478.25
520	664201.16	2190871.54
521	664150.89	2189680.27
522	664524.16	2191221.92
523	664039.84	2189834.04
524	664897.27	2191863.78
525	663855.83	2190318.37
527	663816.84	2190689.26
529	664027.12	2191017.38
531	664302.65	2191240.91
531A	664432.95	2191409.15

US Army Corps of Engineers
Buffalo District

DATE	REVISION

Original sheet size = ANSI D

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Drawn by: ADK
Checked by: KPL
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved: Adam W. Hamm, PE
Chief, N<<PA O & M Office

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

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CLEVELAND, OHIO
CUYAHOGA RIVER
PROJECT SOUNDINGS 2020
SCALE: 1" = 200'

Sheet reference number
VH–103
Sheet 3 of 5

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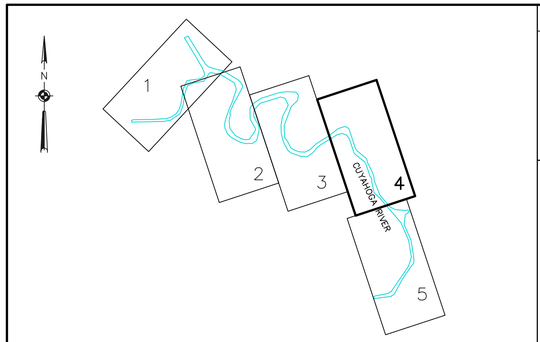

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
18.0	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
○417	CHANNEL CORNER
◎H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)

SITE SPECIFIC NOTES

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SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULTIBEAM
1.0 DEGREE BEAMS 150 DEGREE ARC
HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
VELOCITY PROFILER; SONTEK CASTAWAY CTD,
HYPACK SURVEY SOFTWARE
SURVEY VESSEL MONSON

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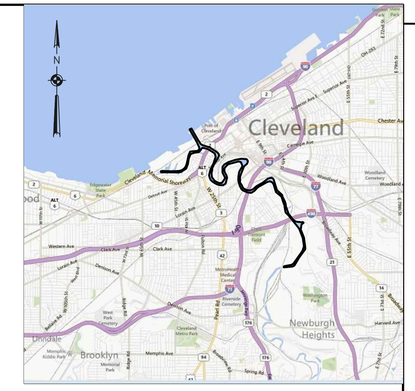

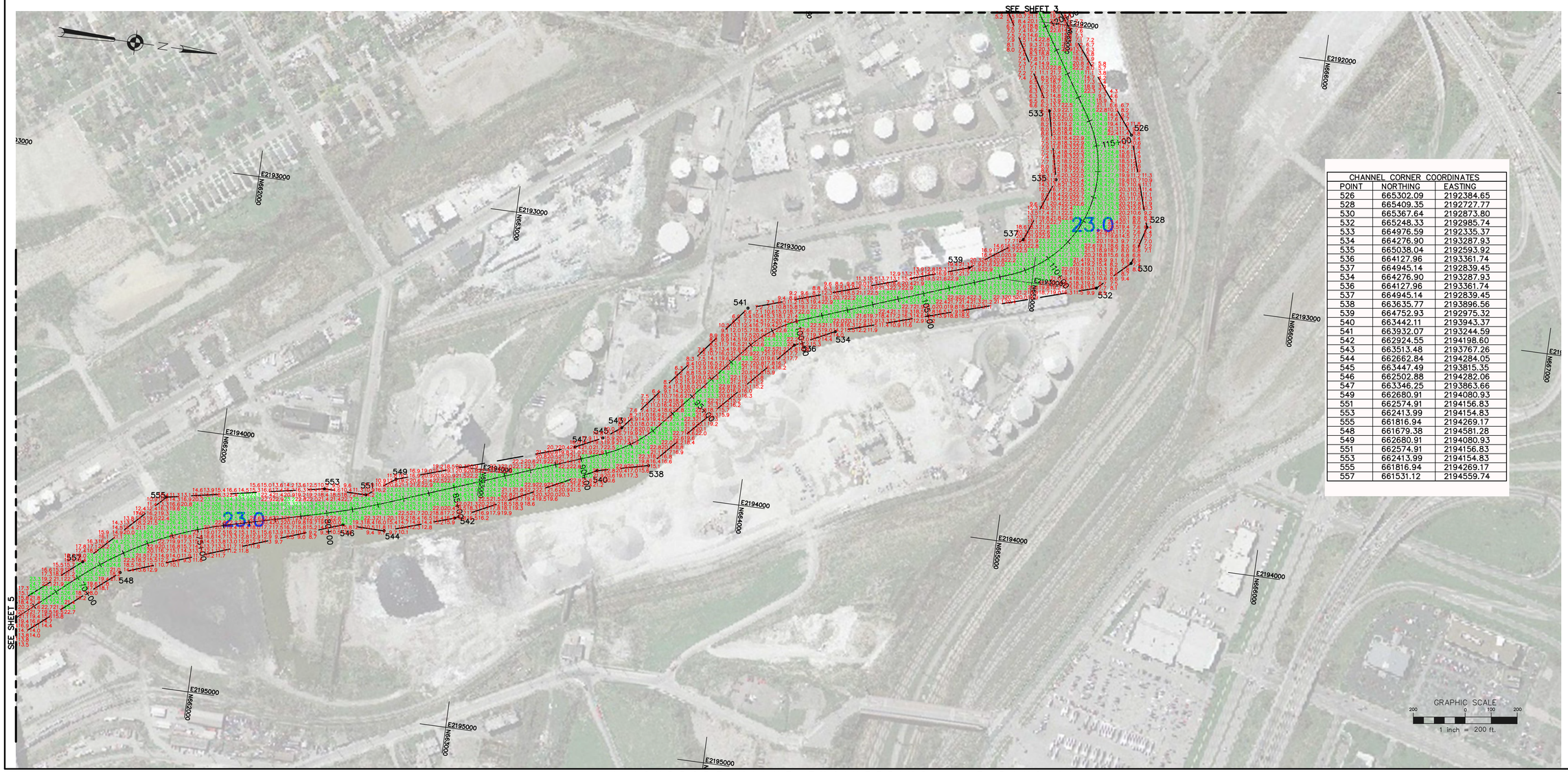

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
526	665302.09	2192384.65
528	665409.35	2192727.77
530	665367.64	2192873.80
532	665248.33	2192985.74
533	664976.59	2192335.37
534	664276.90	2193287.93
535	665038.04	2192593.92
536	664127.96	2193361.74
537	664945.14	2192839.45
534	664276.90	2193287.93
536	664127.96	2193361.74
537	664945.14	2192839.45
538	663635.77	2193896.56
539	664752.93	2192975.32
540	663442.11	2193943.37
541	663932.07	2193244.59
542	662924.55	2194198.60
543	663513.48	2193767.26
544	662662.84	2194284.05
545	663447.49	2193815.35
546	662502.88	2194282.06
547	663346.25	2193863.66
549	662680.91	2194080.93
551	662574.91	2194156.83
553	662413.99	2194154.83
555	661816.94	2194269.17
548	661679.38	2194581.28
549	662680.91	2194080.93
551	662574.91	2194156.83
553	662413.99	2194154.83
555	661816.94	2194269.17
557	661531.12	2194559.74

US Army Corps of Engineers
Buffalo District

DATE	REVISION

Original sheet size = ANSI D

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Drawn by: AGK
Checked by: KPL
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved: Adam W. Hamm, PE
Chief, N<<PA O & M Office

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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

CLEVELAND, OHIO
CUYAHOGA RIVER
PROJECT SOUNDINGS 2020
SCALE: 1" = 200'

Sheet reference number
VH–104
Sheet 4 of 5

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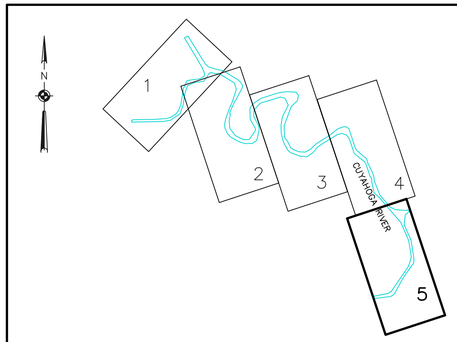


SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND	
	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
23.0	PROJECT DEPTH

LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
○417	CHANNEL CORNER
◎H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)

SITE SPECIFIC NOTES

1.PROJECT DEPTHS AND SOUNDINGS ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET ABOVE INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85).

2.HORIZONTAL COORDINATES ARE U.S. SURVEY FEET REFERRED TO NORTH AMERICAN DATUM 1983/2011 (NAD83/11) OHIO STATE PLANE COORDINATE SYSTEM – NORTH ZONE.

3.PROJECT DEPTH IS AS NOTED BELOW LOW WATER DATUM.

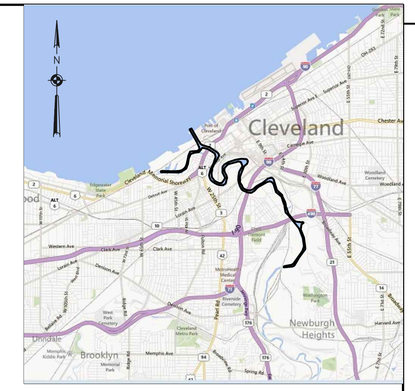
4.SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 44' X 18' HYPACK MATRIX.

5.SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY C.STRONG AND PARTY DURING APRIL 28, 2020 USING:
GPS POSITIONING, POS–MV VER. 5 AND RTK TIDES
SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULTIBEAM
1.0 DEGREE BEAMS 150 DEGREE ARC
HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
VELOCITY PROFILER; SONTEK CASTAWAY CTD,
HYPACK SURVEY SOFTWARE
SURVEY VESSEL MONSON

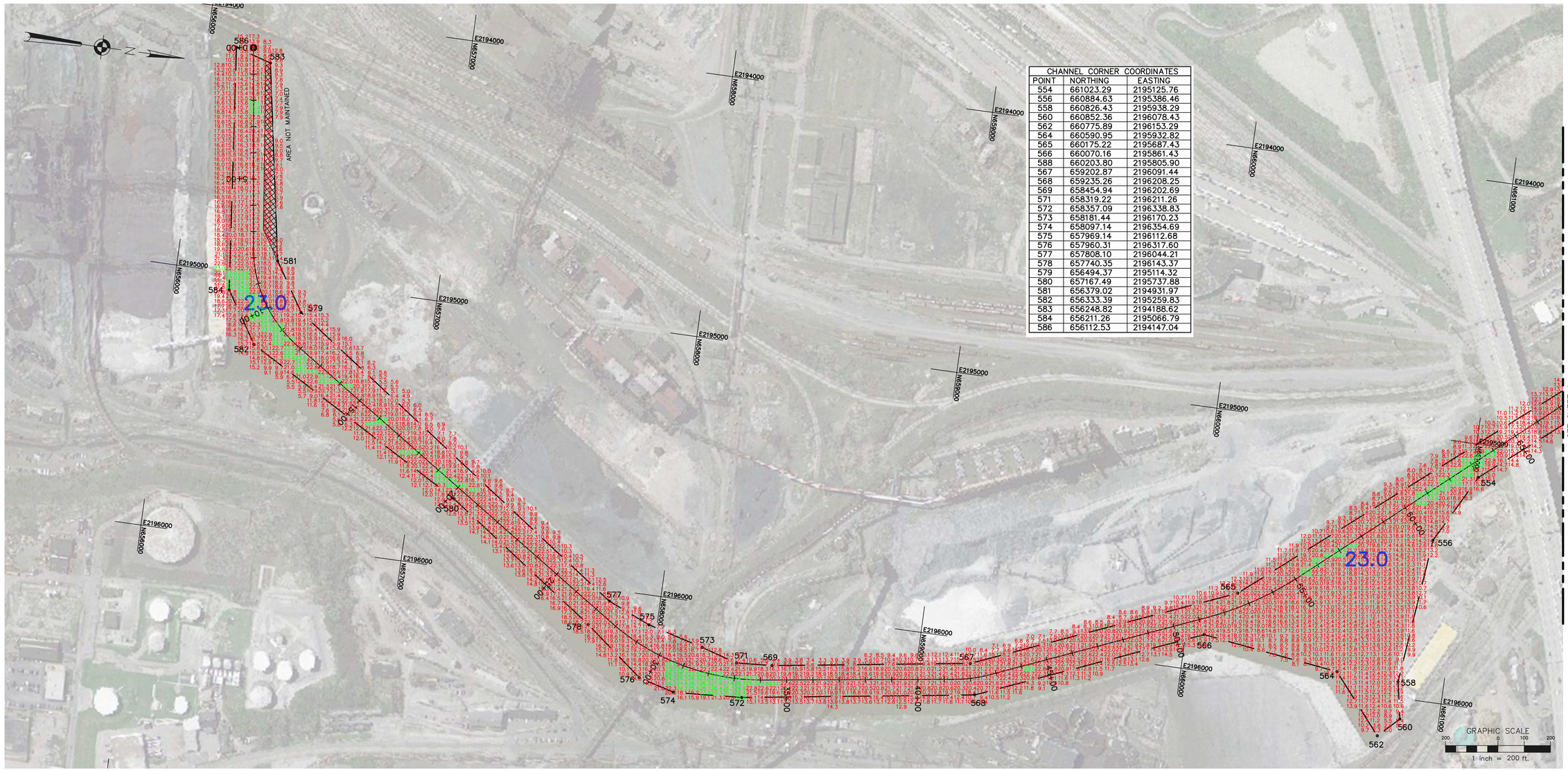
6.THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.

7.THE BACKGROUND IMAGERY SHOWN WAS ACQUIRED FROM THE OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM.

8.THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.



CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
554	661023.29	2195125.76
556	660884.63	2195386.46
558	660826.43	2195938.29
560	660852.36	2196078.43
562	660775.89	2196153.29
564	660590.95	2195932.82
565	660175.22	2195687.43
566	660070.16	2195861.43
588	660203.80	2195805.90
567	659202.87	2196091.44
568	659235.26	2196208.25
569	658454.94	2196202.69
571	658319.22	2196211.26
572	658357.09	2196338.83
573	658181.44	2196170.23
574	658097.14	2196354.69
575	657969.14	2196112.68
576	657960.31	2196317.60
577	657808.10	2196044.21
578	657740.35	2196143.37
579	656494.37	2195114.32
580	657167.49	2195737.88
581	656379.02	2194931.97
582	656333.39	2195259.83
583	656248.82	2194188.62
584	656211.26	2195066.79
586	656112.53	2194147.04



US Army Corps of Engineers
Buffalo District

REVISION	DATE

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

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CLEVELAND, OHIO
CUYAHOGA RIVER
PROJECT SOUNDINGS 2020

SCALE: 1" = 200'

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Sheet 5 of 5

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