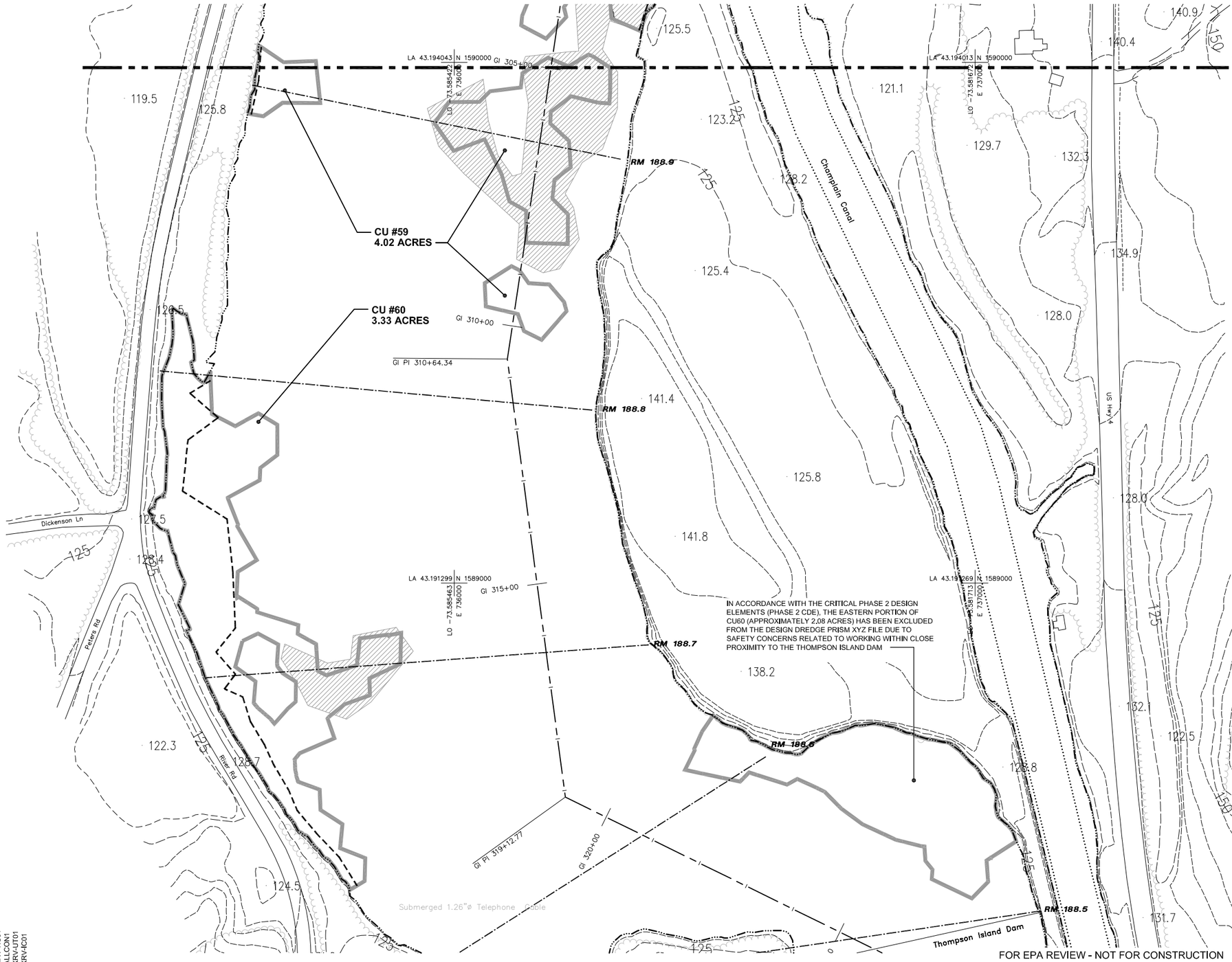
Appendix 2

Contract 42A - Dredging Operations, Revised Drawings



IN ACCORDANCE WITH THE CRITICAL PHASE 2 DESIGN ELEMENTS (PHASE 2 CDE), THE EASTERN PORTION OF CU60 (APPROXIMATELY 2.08 ACRES) HAS BEEN EXCLUDED FROM THE DESIGN DREDGE PRISM XYZ FILE DUE TO SAFETY CONCERNS RELATED TO WORKING WITHIN CLOSE PROXIMITY TO THE THOMPSON ISLAND DAM

LEGEND:

- NEARSHORE BORDER
- EXTENT OF CLAY DELINEATION
- APPROXIMATE DESIGN DREDGE PRISM CLAY LIMITS
- FLOODPLAIN ISOLATION COVER

NOTES:

1. SEE SHEET D–2025 FOR GENERAL NOTES AND GENERAL LEGEND.
2. THE REQUIRED ELEVATIONS ASSOCIATED WITH THE DESIGN CUT DREDGE PASS ARE SHOWN ON THE DREDGE PRISM XYZ FILE. DREDGING LIMITS ASSOCIATED WITH RE–DREDGE CUT PASSES WILL BE PROVIDED IN THE FIELD BY THE CONSTRUCTION MANAGER FOLLOWING THE DESIGN CUT DREDGE PASS AND RESIDUAL SAMPLING.
3. THE EXTENTS OF CLAY DELINEATION WERE PROVIDED BY ANCHOR QEA AND HAVE BEEN ESTIMATED FROM DATA GATHERED BETWEEN 2002 AND 2005 AND DURING 2011 AND 2012 AS PART OF THE SEDIMENT SAMPLING AND ANALYSIS PROGRAM (SSAP) AND SUPPLEMENTAL ENGINEERING DATA COLLECTION (SEDC) PROGRAM. THE APPROXIMATE DESIGN DREDGE PRISM CLAY LIMITS SHOWN ON THE DRAWINGS REPRESENT AREAS WHERE IT IS ESTIMATED THAT THE TOP OF GLACIAL LAKE ALBANY CLAY (GLAC) WILL BE ENCOUNTERED DURING THE DESIGN CUT DREDGE PASS. CLAY MAY BE ENCOUNTERED OUTSIDE OF THE AREAS SHOWN. SEE SPECIFICATION SECTION 13803 FOR DREDGING PROCEDURES IN AREAS WHERE CLAY IS ENCOUNTERED.
4. THE NEARSHORE AREA IS THE AREA BETWEEN THE NEARSHORE BORDER AND THE SHORELINE SHOWN ON THE DRAWINGS. SEE SPECIFICATION SECTION 13803 FOR DREDGING REQUIREMENTS WITHIN THE NEARSHORE AREA.

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XREFS:
XBM-MAJR
XBM-TEXT
XGN-BL01
XRV-CU01
XRV-RM01
XBM-MINR
XGN-TOOOR
XRV-GT001
XRV-NC01
ALLCON1
XRV-UT01
XRV-IC01

CITY: SYRACUSE, NY DIV/GROUP: 141/ENVCAD DB: L.POSENAUER LD: L.POSENAUER PM: C.GUEST LYRON="OFF=*REF*
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GENERAL ELECTRIC COMPANY • HUDSON RIVER PCBs SUPERFUND SITE
SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

DREDGE AREA PLAN - RIVER MILE 188.9 - 188.5

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No.
B0031087.0003.04900

Date
AUGUST 19, 2013

ARCADIS
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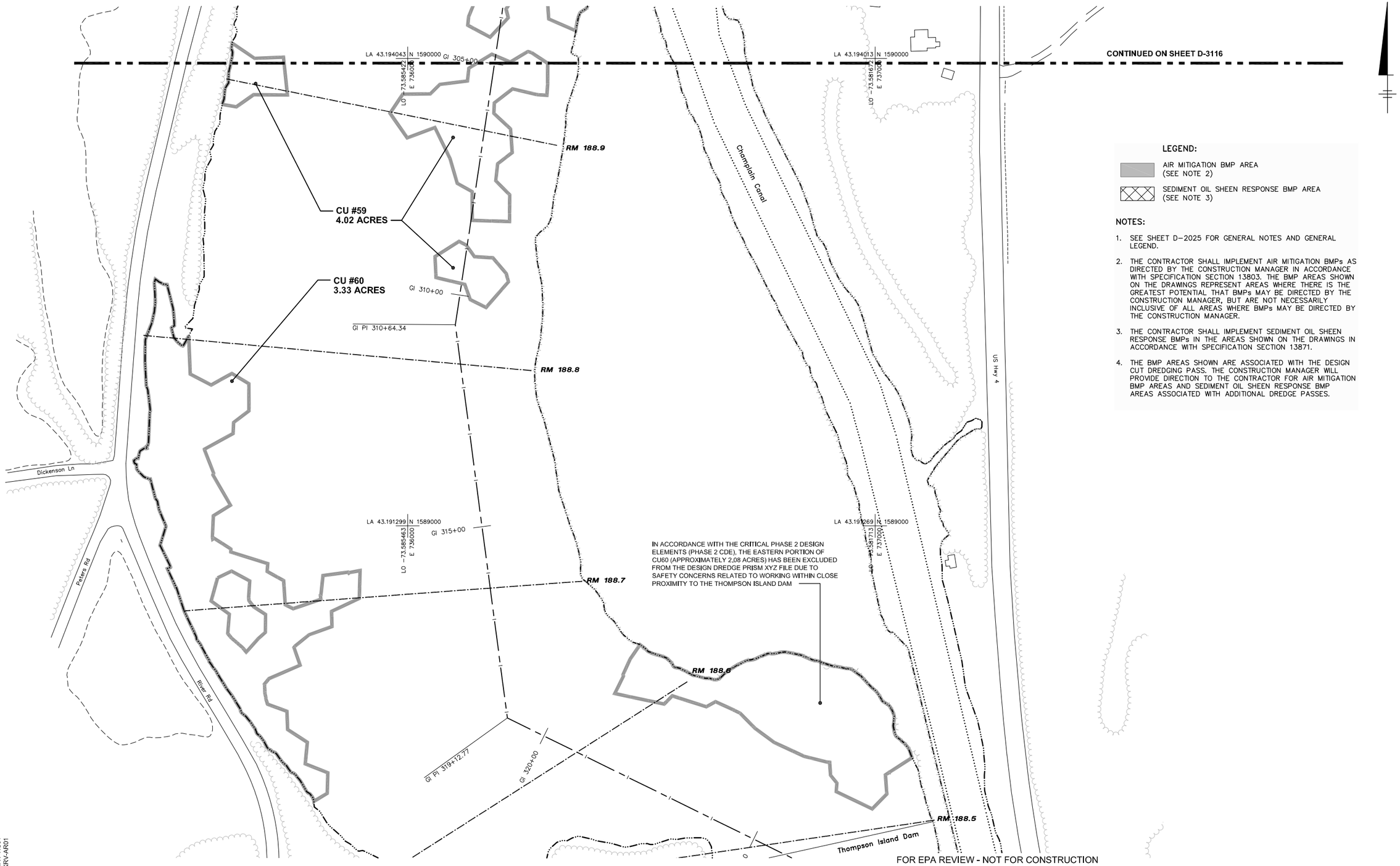
Syracuse, NY 13214
315-446-9120

D-2117



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LEGEND:

- AIR MITIGATION BMP AREA (SEE NOTE 2)
- SEDIMENT OIL SHEEN RESPONSE BMP AREA (SEE NOTE 3)

NOTES:

1. SEE SHEET D–2025 FOR GENERAL NOTES AND GENERAL LEGEND.
2. THE CONTRACTOR SHALL IMPLEMENT AIR MITIGATION BMPs AS DIRECTED BY THE CONSTRUCTION MANAGER IN ACCORDANCE WITH SPECIFICATION SECTION 13803. THE BMP AREAS SHOWN ON THE DRAWINGS REPRESENT AREAS WHERE THERE IS THE GREATEST POTENTIAL THAT BMPs MAY BE DIRECTED BY THE CONSTRUCTION MANAGER, BUT ARE NOT NECESSARILY INCLUSIVE OF ALL AREAS WHERE BMPs MAY BE DIRECTED BY THE CONSTRUCTION MANAGER.
3. THE CONTRACTOR SHALL IMPLEMENT SEDIMENT OIL SHEEN RESPONSE BMPs IN THE AREAS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH SPECIFICATION SECTION 13871.
4. THE BMP AREAS SHOWN ARE ASSOCIATED WITH THE DESIGN CUT DREDGING PASS. THE CONSTRUCTION MANAGER WILL PROVIDE DIRECTION TO THE CONTRACTOR FOR AIR MITIGATION BMP AREAS AND SEDIMENT OIL SHEEN RESPONSE BMP AREAS ASSOCIATED WITH ADDITIONAL DREDGE PASSES.

XREFS:
XBM-MAJR
XBM-TEXT
XGN-BL01
XRV-CU01
XGN-TB04
XRV-RM01
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AIR MITIGATION AND SHEEN RESPONSE BMP AREAS - RIVER MILE 188.9 - 188.5

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No. B0031087.0003.04900
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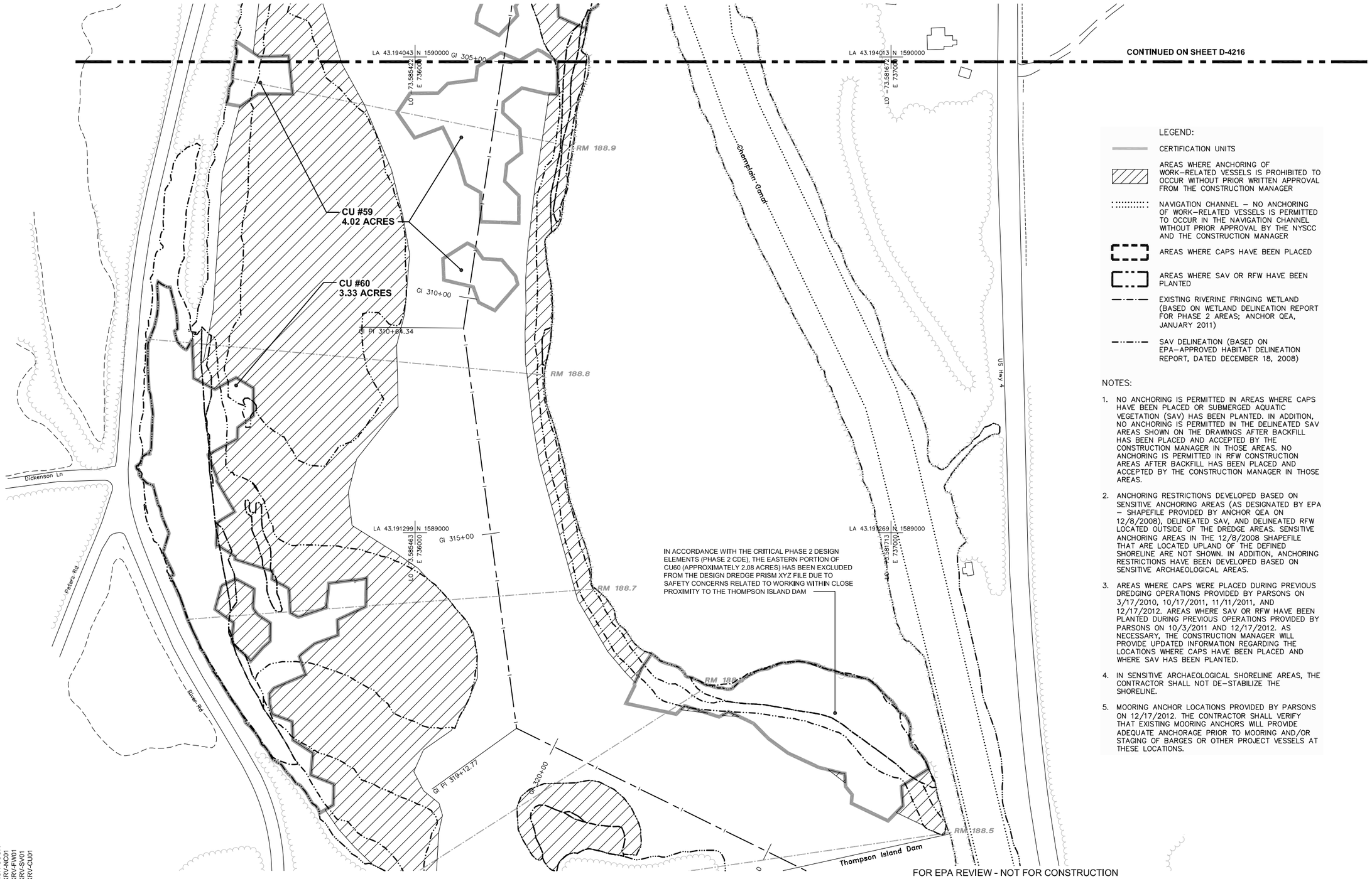

LEGEND:

- CERTIFICATION UNITS
- AREAS WHERE ANCHORING OF WORK-RELATED VESSELS IS PROHIBITED TO OCCUR WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONSTRUCTION MANAGER
- NAVIGATION CHANNEL – NO ANCHORING OF WORK-RELATED VESSELS IS PERMITTED TO OCCUR IN THE NAVIGATION CHANNEL WITHOUT PRIOR APPROVAL BY THE NYSCC AND THE CONSTRUCTION MANAGER
- AREAS WHERE CAPS HAVE BEEN PLACED
- AREAS WHERE SAV OR RFW HAVE BEEN PLANTED
- EXISTING RIVERINE FRINGING WETLAND (BASED ON WETLAND DELINEATION REPORT FOR PHASE 2 AREAS; ANCHOR QEA, JANUARY 2011)
- SAV DELINEATION (BASED ON EPA-APPROVED HABITAT DELINEATION REPORT, DATED DECEMBER 18, 2008)

NOTES:

1. NO ANCHORING IS PERMITTED IN AREAS WHERE CAPS HAVE BEEN PLACED OR SUBMERGED AQUATIC VEGETATION (SAV) HAS BEEN PLANTED. IN ADDITION, NO ANCHORING IS PERMITTED IN THE DELINEATED SAV AREAS SHOWN ON THE DRAWINGS AFTER BACKFILL HAS BEEN PLACED AND ACCEPTED BY THE CONSTRUCTION MANAGER IN THOSE AREAS. NO ANCHORING IS PERMITTED IN RFW CONSTRUCTION AREAS AFTER BACKFILL HAS BEEN PLACED AND ACCEPTED BY THE CONSTRUCTION MANAGER IN THOSE AREAS.
2. ANCHORING RESTRICTIONS DEVELOPED BASED ON SENSITIVE ANCHORING AREAS (AS DESIGNATED BY EPA – SHAPEFILE PROVIDED BY ANCHOR QEA ON 12/8/2008), DELINEATED SAV, AND DELINEATED RFW LOCATED OUTSIDE OF THE DREDGE AREAS. SENSITIVE ANCHORING AREAS IN THE 12/8/2008 SHAPEFILE THAT ARE LOCATED UPLAND OF THE DEFINED SHORELINE ARE NOT SHOWN. IN ADDITION, ANCHORING RESTRICTIONS HAVE BEEN DEVELOPED BASED ON SENSITIVE ARCHAEOLOGICAL AREAS.
3. AREAS WHERE CAPS WERE PLACED DURING PREVIOUS DREDGING OPERATIONS PROVIDED BY PARSONS ON 3/17/2010, 10/17/2011, 11/11/2011, AND 12/17/2012. AREAS WHERE SAV OR RFW HAVE BEEN PLANTED DURING PREVIOUS OPERATIONS PROVIDED BY PARSONS ON 10/3/2011 AND 12/17/2012. AS NECESSARY, THE CONSTRUCTION MANAGER WILL PROVIDE UPDATED INFORMATION REGARDING THE LOCATIONS WHERE CAPS HAVE BEEN PLACED AND WHERE SAV HAS BEEN PLANTED.
4. IN SENSITIVE ARCHAEOLOGICAL SHORELINE AREAS, THE CONTRACTOR SHALL NOT DE-STABILIZE THE SHORELINE.
5. MOORING ANCHOR LOCATIONS PROVIDED BY PARSONS ON 12/17/2012. THE CONTRACTOR SHALL VERIFY THAT EXISTING MOORING ANCHORS WILL PROVIDE ADEQUATE ANCHORAGE PRIOR TO MOORING AND/OR STAGING OF BARGES OR OTHER PROJECT VESSELS AT THESE LOCATIONS.

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XREFS:
XBM-MAJR
XBM-TEXT
XGN-BL01
XGN-TB04
XRV-AR01
XRV-RM01
XRV-AN01
XBM-MINR
XGN-COOR
XRV-NC01
XRV-FW01
XRV-SV01
XRV-CU01

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SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

ANCHORING RESTRICTIONS - RIVER MILE 188.9 - 188.5

CONTRACT 42A - DREDGING OPERATIONS

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D-4217

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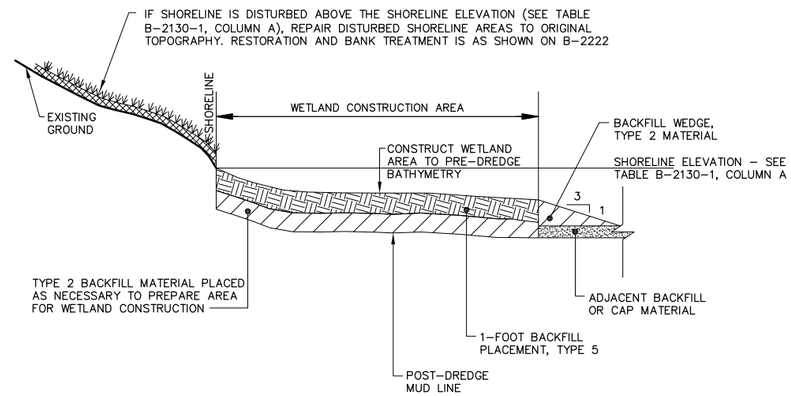

TYPICAL WETLAND EXAMPLE CROSS SECTION - CU59 AND CU60 (1)

NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL NOT DISTURB EXISTING WETLAND AREAS OUTSIDE THE DREDGE PRISM LIMITS. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING WETLANDS DISTURBED OUTSIDE THE DREDGE PRISM LIMITS AT NO ADDITIONAL COST TO GE.
2. WETLAND CONSTRUCTION MATERIALS SHALL BE PLACED ABOVE ISOLATION CAPS (IF PLACED).
3. CONDUCT SEEDING IN ACCORDANCE WITH SPECIFICATION SECTION 13701.
4. REFER TO DRAWINGS B-2316 AND B-2317 FOR LOCATIONS WHERE THE WETLAND CONSTRUCTION DETAILS ON DRAWING B-2130 SHALL APPLY.
5. 3:1 (H:V) SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF THE WETLAND CONSTRUCTION AREA DOWN TO THE ADJOINING BACKFILL OR CAP SURFACE OR TO THE ADJACENT MUDLINE.
6. THE CONSTRUCTED WETLAND AREA SLOPE SHALL BE CONSISTENT WITH THE PRE-DREDGING SLOPE.

TABLE B-2130-1 - BACKFILL ELEVATIONS IN EACH REACH

REACH	POOL	ELEVATION (FEET NAVD88) A (SHORELINE)
REACH 8	Thompson Island Pool	119.0

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BACKFILL - TYPICAL CROSS SECTIONS - RFW CONSTRUCTION AREAS IN CU59 AND CU60

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No.
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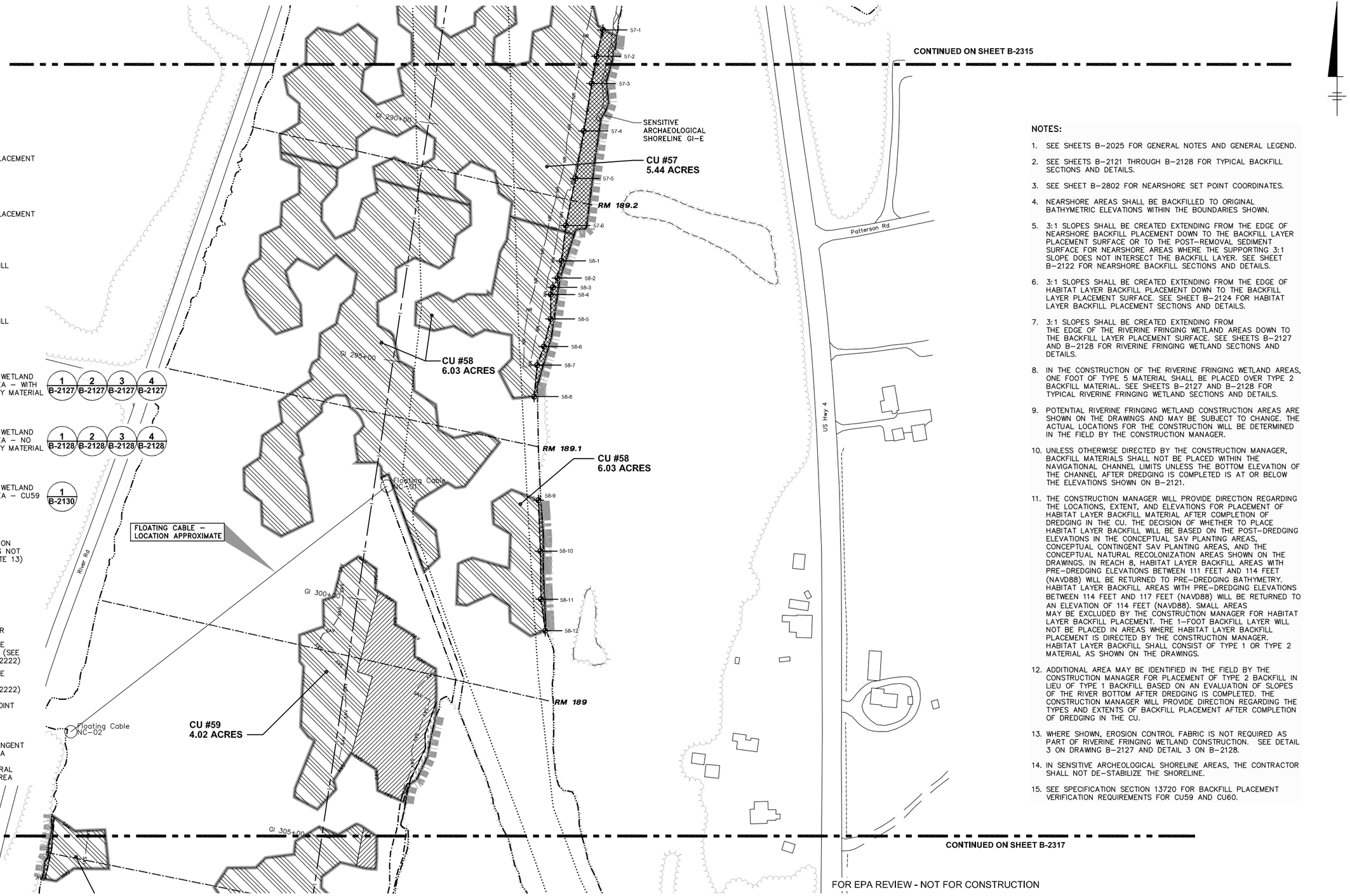

LEGEND:

- BACKFILL LAYER PLACEMENT –TYPE 1 MATERIAL
- BACKFILL LAYER PLACEMENT –TYPE 2 MATERIAL
- NEARSHORE BACKFILL PLACEMENT – TYPE 1 MATERIAL
- NEARSHORE BACKFILL PLACEMENT – TYPE 2 MATERIAL
- RIVERINE FRINGING WETLAND CONSTRUCTION AREA – WITH WETLAND BOUNDARY MATERIAL (1/B-2127, 2/B-2127, 3/B-2127, 4/B-2127)
- RIVERINE FRINGING WETLAND CONSTRUCTION AREA – NO WETLAND BOUNDARY MATERIAL (1/B-2128, 2/B-2128, 3/B-2128, 4/B-2128)
- RIVERINE FRINGING WETLAND CONSTRUCTION AREA – CU59 AND CU60 (1/B-2130)
- AREA WHERE EROSION CONTROL FABRIC IS NOT REQUIRED (SEE NOTE 13)
- EXISTING RIVERINE FRINGING WETLAND
- SHORELINE
- NEARSHORE BORDER
- NATURAL SHORELINE MODERATE ENERGY (SEE DETAILS SHEET B–2222)
- NATURAL SHORELINE LOW ENERGY (SEE DETAILS SHEET B–2222)
- NEARSHORE SET POINT
- SAV — CONCEPTUAL SAV PLANTING AREA
- CSAV — CONCEPTUAL CONTINGENT SAV PLANTING AREA
- NR — CONCEPTUAL NATURAL RECOLONIZATION AREA

NOTES:

1. SEE SHEETS B–2025 FOR GENERAL NOTES AND GENERAL LEGEND.
2. SEE SHEETS B–2121 THROUGH B–2128 FOR TYPICAL BACKFILL SECTIONS AND DETAILS.
3. SEE SHEET B–2802 FOR NEARSHORE SET POINT COORDINATES.
4. NEARSHORE AREAS SHALL BE BACKFILLED TO ORIGINAL BATHYMETRIC ELEVATIONS WITHIN THE BOUNDARIES SHOWN.
5. 3:1 SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF NEARSHORE BACKFILL PLACEMENT DOWN TO THE BACKFILL LAYER PLACEMENT SURFACE OR TO THE POST–REMOVAL SEDIMENT SURFACE FOR NEARSHORE AREAS WHERE THE SUPPORTING 3:1 SLOPE DOES NOT INTERSECT THE BACKFILL LAYER. SEE SHEET B–2122 FOR NEARSHORE BACKFILL SECTIONS AND DETAILS.
6. 3:1 SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF HABITAT LAYER BACKFILL PLACEMENT DOWN TO THE BACKFILL LAYER PLACEMENT SURFACE. SEE SHEET B–2124 FOR HABITAT LAYER BACKFILL PLACEMENT SECTIONS AND DETAILS.
7. 3:1 SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF THE RIVERINE FRINGING WETLAND AREAS DOWN TO THE BACKFILL LAYER PLACEMENT SURFACE. SEE SHEETS B–2127 AND B–2128 FOR RIVERINE FRINGING WETLAND SECTIONS AND DETAILS.
8. IN THE CONSTRUCTION OF THE RIVERINE FRINGING WETLAND AREAS, ONE FOOT OF TYPE 5 MATERIAL SHALL BE PLACED OVER TYPE 2 BACKFILL MATERIAL. SEE SHEETS B–2127 AND B–2128 FOR TYPICAL RIVERINE FRINGING WETLAND SECTIONS AND DETAILS.
9. POTENTIAL RIVERINE FRINGING WETLAND CONSTRUCTION AREAS ARE SHOWN ON THE DRAWINGS AND MAY BE SUBJECT TO CHANGE. THE ACTUAL LOCATIONS FOR THE CONSTRUCTION WILL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER.
10. UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER, BACKFILL MATERIALS SHALL NOT BE PLACED WITHIN THE NAVIGATIONAL CHANNEL LIMITS UNLESS THE BOTTOM ELEVATION OF THE CHANNEL AFTER DREDGING IS COMPLETED IS AT OR BELOW THE ELEVATIONS SHOWN ON B–2121.
11. THE CONSTRUCTION MANAGER WILL PROVIDE DIRECTION REGARDING THE LOCATIONS, EXTENT, AND ELEVATIONS FOR PLACEMENT OF HABITAT LAYER BACKFILL MATERIAL AFTER COMPLETION OF DREDGING IN THE CU. THE DECISION OF WHETHER TO PLACE HABITAT LAYER BACKFILL WILL BE BASED ON THE POST–DREDGING ELEVATIONS IN THE CONCEPTUAL SAV PLANTING AREAS, CONCEPTUAL CONTINGENT SAV PLANTING AREAS, AND THE CONCEPTUAL NATURAL RECOLONIZATION AREAS SHOWN ON THE DRAWINGS. IN REACH 8, HABITAT LAYER BACKFILL AREAS WITH PRE–DREDGING ELEVATIONS BETWEEN 111 FEET AND 114 FEET (NAVD88) WILL BE RETURNED TO PRE–DREDGING BATHYMETRY. HABITAT LAYER BACKFILL AREAS WITH PRE–DREDGING ELEVATIONS BETWEEN 114 FEET AND 117 FEET (NAVD88) WILL BE RETURNED TO AN ELEVATION OF 114 FEET (NAVD88). SMALL AREAS MAY BE EXCLUDED BY THE CONSTRUCTION MANAGER FOR HABITAT LAYER BACKFILL PLACEMENT. THE 1–FOOT BACKFILL LAYER WILL NOT BE PLACED IN AREAS WHERE HABITAT LAYER BACKFILL PLACEMENT IS DIRECTED BY THE CONSTRUCTION MANAGER. HABITAT LAYER BACKFILL SHALL CONSIST OF TYPE 1 OR TYPE 2 MATERIAL AS SHOWN ON THE DRAWINGS.
12. ADDITIONAL AREA MAY BE IDENTIFIED IN THE FIELD BY THE CONSTRUCTION MANAGER FOR PLACEMENT OF TYPE 2 BACKFILL IN LIEU OF TYPE 1 BACKFILL BASED ON AN EVALUATION OF SLOPES OF THE RIVER BOTTOM AFTER DREDGING IS COMPLETED. THE CONSTRUCTION MANAGER WILL PROVIDE DIRECTION REGARDING THE TYPES AND EXTENTS OF BACKFILL PLACEMENT AFTER COMPLETION OF DREDGING IN THE CU.
13. WHERE SHOWN, EROSION CONTROL FABRIC IS NOT REQUIRED AS PART OF RIVERINE FRINGING WETLAND CONSTRUCTION. SEE DETAIL 3 ON DRAWING B–2127 AND DETAIL 3 ON B–2128.
14. IN SENSITIVE ARCHEOLOGICAL SHORELINE AREAS, THE CONTRACTOR SHALL NOT DE–STABILIZE THE SHORELINE.
15. SEE SPECIFICATION SECTION 13720 FOR BACKFILL PLACEMENT VERIFICATION REQUIREMENTS FOR CU59 AND CU60.

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XREFS:
XBM-MAJR
XBM-TEXT
XGN-BL01
XRV-CU01
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XRV-NC01
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SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

BACKFILL - RIVER MILE 189.3 - 188.9

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No. B0031087.0001.03100
Date FEBRUARY 15, 2012
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B-2316

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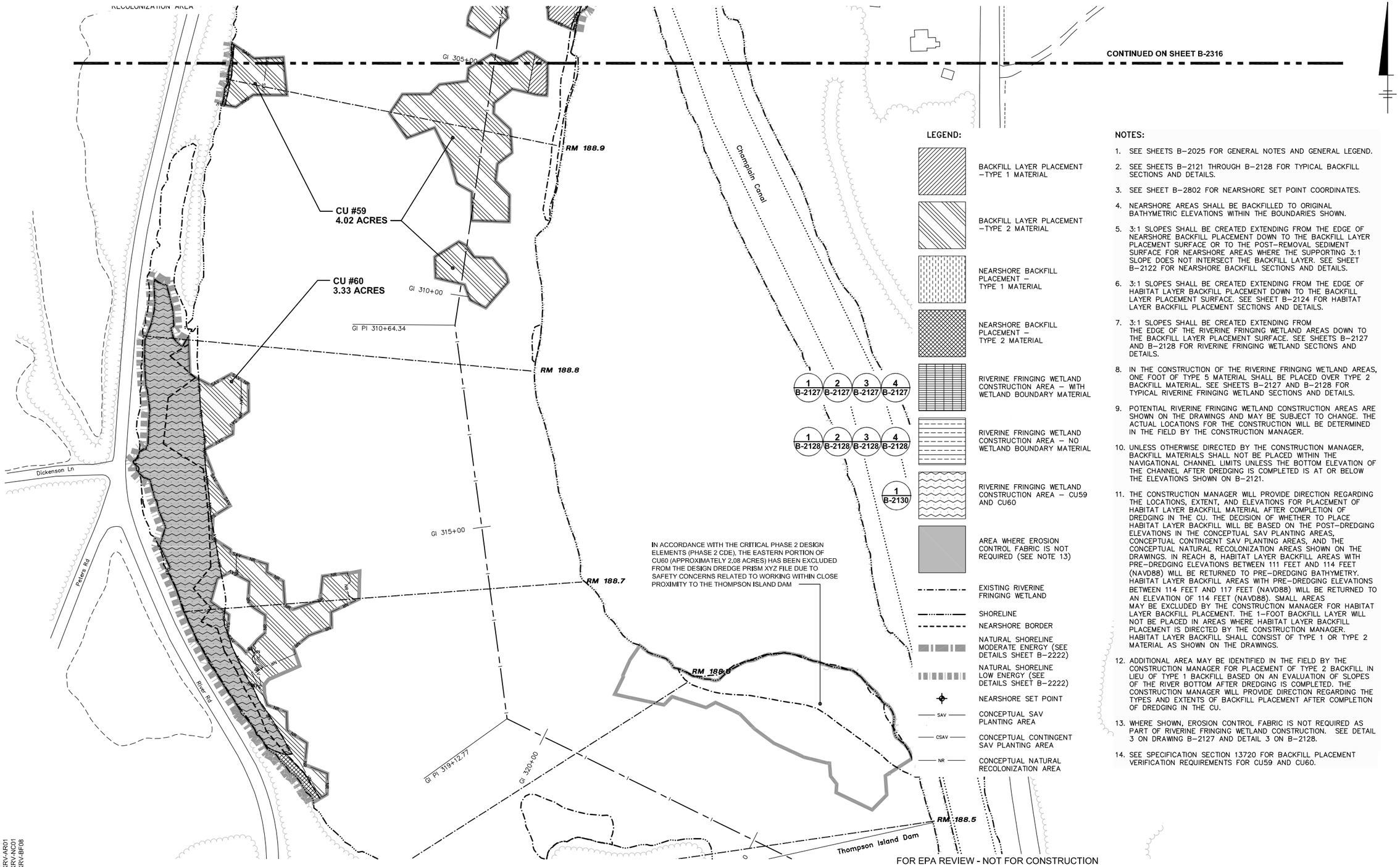

NOTES:

1. SEE SHEETS B–2025 FOR GENERAL NOTES AND GENERAL LEGEND.
2. SEE SHEETS B–2121 THROUGH B–2128 FOR TYPICAL BACKFILL SECTIONS AND DETAILS.
3. SEE SHEET B–2802 FOR NEARSHORE SET POINT COORDINATES.
4. NEARSHORE AREAS SHALL BE BACKFILLED TO ORIGINAL BATHYMETRIC ELEVATIONS WITHIN THE BOUNDARIES SHOWN.
5. 3:1 SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF NEARSHORE BACKFILL PLACEMENT DOWN TO THE BACKFILL LAYER PLACEMENT SURFACE OR TO THE POST–REMOVAL SEDIMENT SURFACE FOR NEARSHORE AREAS WHERE THE SUPPORTING 3:1 SLOPE DOES NOT INTERSECT THE BACKFILL LAYER. SEE SHEET B–2122 FOR NEARSHORE BACKFILL SECTIONS AND DETAILS.
6. 3:1 SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF HABITAT LAYER BACKFILL PLACEMENT DOWN TO THE BACKFILL LAYER PLACEMENT SURFACE. SEE SHEET B–2124 FOR HABITAT LAYER BACKFILL PLACEMENT SECTIONS AND DETAILS.
7. 3:1 SLOPES SHALL BE CREATED EXTENDING FROM THE EDGE OF THE RIVERINE FRINGING WETLAND AREAS DOWN TO THE BACKFILL LAYER PLACEMENT SURFACE. SEE SHEETS B–2127 AND B–2128 FOR RIVERINE FRINGING WETLAND SECTIONS AND DETAILS.
8. IN THE CONSTRUCTION OF THE RIVERINE FRINGING WETLAND AREAS, ONE FOOT OF TYPE 5 MATERIAL SHALL BE PLACED OVER TYPE 2 BACKFILL MATERIAL. SEE SHEETS B–2127 AND B–2128 FOR TYPICAL RIVERINE FRINGING WETLAND SECTIONS AND DETAILS.
9. POTENTIAL RIVERINE FRINGING WETLAND CONSTRUCTION AREAS ARE SHOWN ON THE DRAWINGS AND MAY BE SUBJECT TO CHANGE. THE ACTUAL LOCATIONS FOR THE CONSTRUCTION WILL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER.
10. UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER, BACKFILL MATERIALS SHALL NOT BE PLACED WITHIN THE NAVIGATIONAL CHANNEL LIMITS UNLESS THE BOTTOM ELEVATION OF THE CHANNEL AFTER DREDGING IS COMPLETED IS AT OR BELOW THE ELEVATIONS SHOWN ON B–2121.
11. THE CONSTRUCTION MANAGER WILL PROVIDE DIRECTION REGARDING THE LOCATIONS, EXTENT, AND ELEVATIONS FOR PLACEMENT OF HABITAT LAYER BACKFILL MATERIAL AFTER COMPLETION OF DREDGING IN THE CU. THE DECISION OF WHETHER TO PLACE HABITAT LAYER BACKFILL WILL BE BASED ON THE POST–DREDGING ELEVATIONS IN THE CONCEPTUAL SAV PLANTING AREAS, CONCEPTUAL CONTINGENT SAV PLANTING AREAS, AND THE CONCEPTUAL NATURAL RECOLONIZATION AREAS SHOWN ON THE DRAWINGS. IN REACH 8, HABITAT LAYER BACKFILL AREAS WITH PRE–DREDGING ELEVATIONS BETWEEN 111 FEET AND 114 FEET (NAVD88) WILL BE RETURNED TO PRE–DREDGING BATHYMETRY. HABITAT LAYER BACKFILL AREAS WITH PRE–DREDGING ELEVATIONS BETWEEN 114 FEET AND 117 FEET (NAVD88) WILL BE RETURNED TO AN ELEVATION OF 114 FEET (NAVD88). SMALL AREAS MAY BE EXCLUDED BY THE CONSTRUCTION MANAGER FOR HABITAT LAYER BACKFILL PLACEMENT. THE 1–FOOT BACKFILL LAYER WILL NOT BE PLACED IN AREAS WHERE HABITAT LAYER BACKFILL PLACEMENT IS DIRECTED BY THE CONSTRUCTION MANAGER. HABITAT LAYER BACKFILL SHALL CONSIST OF TYPE 1 OR TYPE 2 MATERIAL AS SHOWN ON THE DRAWINGS.
12. ADDITIONAL AREA MAY BE IDENTIFIED IN THE FIELD BY THE CONSTRUCTION MANAGER FOR PLACEMENT OF TYPE 2 BACKFILL IN LIEU OF TYPE 1 BACKFILL BASED ON AN EVALUATION OF SLOPES OF THE RIVER BOTTOM AFTER DREDGING IS COMPLETED. THE CONSTRUCTION MANAGER WILL PROVIDE DIRECTION REGARDING THE TYPES AND EXTENTS OF BACKFILL PLACEMENT AFTER COMPLETION OF DREDGING IN THE CU.
13. WHERE SHOWN, EROSION CONTROL FABRIC IS NOT REQUIRED AS PART OF RIVERINE FRINGING WETLAND CONSTRUCTION. SEE DETAIL 3 ON DRAWING B–2127 AND DETAIL 3 ON B–2128.
14. SEE SPECIFICATION SECTION 13720 FOR BACKFILL PLACEMENT VERIFICATION REQUIREMENTS FOR CU59 AND CU60.

FOR EPA REVIEW - NOT FOR CONSTRUCTION

XREFS:
XBM-MAJR
XBM-TEXT
XGN-BL01
XRV-CU01
XGN-TB00
XRV-FW01
XBM-AMKR
XRV-SA01
XRV-SH01
XRV-AR01
XRV-NC01
XRV-BF08

100' 0 100' 200'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

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Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS

ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

GENERAL ELECTRIC COMPANY • HUDSON RIVER PCBs SUPERFUND SITE

SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

BACKFILL - RIVER MILE 188.9 - 188.5

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No.
B0031087.0001.03100

Date
FEBRUARY 15, 2012

ARCADIS
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

B-2317

NEARSHORE SET POINTS		
POINT ID	NORTHING	EASTING
26–1	1607381.94	732180.40
26–2	1607295.99	732190.00
26–3	1607091.34	732234.74
26–4	1606989.98	732256.93
26–5	1606894.70	732287.28
26–6	1607401.06	732873.65
26–7	1607301.70	732884.96
26–8	1607221.94	732906.77
26–9	1607123.59	732924.84
26–10	1607028.93	732957.09
27–1	1606798.32	732313.95
27–2	1606735.33	732322.33
27–3	1606692.00	732339.04
27–4	1606629.25	732354.25
27–5	1606581.77	732372.16
27–6	1606488.12	732415.71
27–7	1606965.06	732968.03
27–8	1606866.11	732982.49
27–9	1606782.53	732999.09
27–10	1606684.84	733020.43
27–11	1606639.00	733040.65
27–12	1606598.50	733034.00
27–13	1606588.59	733047.58
28–1	1606208.10	732558.66
28–2	1606155.27	732571.61
28–3	1606106.86	732582.14
28–4	1606061.49	732606.33
28–5	1605997.17	732623.83
28–6	1606540.42	733058.42
28–7	1606515.68	733062.32
28–8	1606422.44	733081.51
29–1	1605966.93	732638.85
29–2	1605927.93	732657.07
29–3	1605870.70	732666.06
29–4	1605775.98	732698.13
29–5	1605676.39	732707.19
29–6	1605576.56	732713.07
29–7	1605529.00	732714.00
29–8	1605477.33	732725.42
29–9	1606027.85	733186.64
29–10	1605948.43	733209.97
29–11	1605853.35	733240.94
29–12	1605815.27	733263.31
29–13	1605656.56	733322.10
30–1	1605380.65	732750.98
30–2	1605284.07	732776.92
30–3	1605186.90	732800.54
30–4	1605091.02	732828.94
30–5	1604994.50	732855.08
30–6	1605633.00	733313.76
30–7	1605599.36	733321.78
30–8	1605539.73	733336.50
30–9	1605445.33	733369.50
30–10	1605396.74	733381.26
30–11	1605350.42	733401.00
30–12	1605298.85	733409.92
31–1	1604931.75	732873.11
31–2	1604883.64	732888.40
31–3	1604822.17	732907.09
31–4	1605209.58	733426.44
31–5	1605177.38	733433.62
31–6	1605133.21	733458.00
31–7	1605109.00	733483.33
31–8	1605070.50	733502.00
31–9	1604928.12	733558.12
31–10	1604906.81	733555.81
32–1	1604633.39	732972.24
32–2	1604524.98	733010.71

NEARSHORE SET POINTS		
POINT ID	NORTHING	EASTING
32–3	1604867.95	733572.47
32–4	1604778.46	733617.10
32–5	1604688.07	733659.86
32–6	1604600.05	733707.34
33–1	1604515.18	733760.22
33–2	1604465.13	733792.67
33–3	1604221.75	733852.29
33–4	1604207.80	733841.80
33–5	1604185.12	733856.12
33–6	1604138.79	733918.16
34–1	1603652.80	733653.54
34–2	1603594.71	733736.77
34–3	1603538.57	733819.53
34–4	1603513.95	733858.52
34–5	1603482.08	733874.28
35–1	1604914.58	733618.98
35–2	1604898.94	733646.76
35–3	1604838.94	733726.76
35–4	1604778.02	733806.06
35–5	1604701.71	733870.69
35–6	1604617.29	733924.29
35–7	1604537.65	733984.78
35–8	1604458.60	734046.01
35–9	1604433.00	734089.88
35–10	1604401.15	734127.86
35–11	1604366.00	734144.44
35–12	1604333.03	734149.97
35–13	1604258.00	734216.08
35–14	1604285.72	734124.72
35–15	1604288.88	734035.89
35–16	1604335.44	733944.91
35–17	1604351.81	733902.00
35–18	1604400.62	733869.07
35–19	1604240.22	733913.60
35–20	1604215.09	733993.37
35–21	1604205.25	734055.33
35–22	1604180.45	734141.45
35–23	1604136.05	734214.26
35–24	1605130.36	733484.36
35–25	1605019.56	733533.30
35–26	1604972.86	733577.86
35–27	1604951.15	733613.69
35–28	1604916.02	733707.32
35–29	1604886.17	733749.00
35–30	1604868.88	733795.51
35–31	1604821.37	733836.69
35–32	1604744.77	733900.98
35–33	1604674.80	733972.43
35–34	1604619.89	734056.00
35–35	1604555.41	734085.63
35–36	1604483.18	734154.79
35–37	1604409.14	734222.01
35–38	1604372.00	734247.09
35–39	1604327.64	734306.00
35–40	1604253.67	734346.83
36–1	1604063.57	734283.15
36–2	1603981.58	734340.41
36–3	1603894.20	734389.03
36–4	1603815.45	734450.67
36–5	1603732.46	734506.46
36–6	1603733.21	734443.46
36–7	1603756.11	734382.12
36–8	1603790.71	734288.30
36–9	1603808.02	734244.34
36–10	1604172.88	734405.77
36–11	1604089.53	734461.01
36–12	1603991.00	734521.77
36–13	1603946.73	734566.65

NEARSHORE SET POINTS		
POINT ID	NORTHING	EASTING
36–14	1603879.47	734640.64
36–15	1603811.79	734714.26
36–16	1603740.81	734784.70
36–17	1603669.87	734855.18
36–18	1603594.85	734921.31
36–19	1603534.39	735000.96
37–1	1603328.28	734397.26
37–2	1603301.32	734442.97
37–3	1603256.41	734532.32
37–4	1603203.35	734617.08
37–5	1603144.68	734698.06
37–6	1603078.16	734772.73
37–7	1603005.12	734841.03
37–8	1602927.34	734903.88
37–9	1602848.40	734965.27
37–10	1603481.78	735086.00
37–11	1603452.50	735152.44
37–12	1603460.75	735106.00
37–13	1603450.00	735082.33
37–14	1603421.08	735087.88
37–15	1603339.69	735145.98
37–16	1603270.95	735218.61
37–17	1603200.02	735289.10
37–18	1603130.07	735360.56
38–1	1602765.29	735020.89
38–2	1602679.18	735071.73
38–3	1602593.17	735122.73
38–4	1602500.33	735159.90
38–5	1602412.30	735207.34
38–6	1602324.49	735255.18
38–7	1603061.22	735433.08
38–8	1602989.94	735503.22
38–9	1602922.53	735577.09
38–10	1602842.05	735636.44
38–11	1602767.70	735683.70
38–12	1602720.97	735731.60
38–13	1602636.61	735785.30
39–1	1602235.75	735301.29
39–2	1602145.65	735344.67
39–3	1602052.78	735381.76
39–4	1601959.35	735417.41
39–5	1602558.27	735847.46
39–6	1602470.83	735895.98
39–7	1602380.71	735939.31
39–8	1602288.00	735976.80
39–9	1602199.74	736023.82
40–1	1601867.16	735456.15
40–2	1601770.74	735482.66
40–3	1601677.23	735518.11
40–4	1601579.51	735539.35
40–5	1602109.33	736066.55
40–6	1602066.79	736067.79
40–7	1602027.48	736100.00
40–8	1601918.03	736129.80
40–9	1601830.98	736179.02
40–10	1601733.32	736200.53
40–11	1601677.10	736215.90
40–12	1601640.67	736238.17
41–1	1601481.90	735561.06
41–2	1601385.47	735587.54
41–3	1601356.19	735622.78
41–4	1601332.00	735604.12
41–5	1601275.46	735610.90
41–6	1601543.83	736263.08
41–7	1601448.18	736292.29
41–8	1601362.26	736305.36
42–1	1600959.37	735712.90
42–2	1600860.89	735730.32

NEARSHORE SET POINTS		
POINT ID	NORTHING	EASTING
42–3	1600762.00	735745.15
42–4	1600865.35	736350.23
42–5	1600810.18	736347.10
42–6	1600752.67	736354.43
43–1	1600451.98	735792.98
43–2	1600361.75	735816.96
43–3	1600270.32	735840.32
43–4	1600150.18	735870.58
43–5	1600653.42	736366.64
43–6	1600556.96	736393.01
43–7	1600464.96	736432.21
43–8	1600369.19	736460.98
43–9	1600272.52	736486.57
44–1	1600034.46	735904.01
44–2	1599897.76	735955.21
44–3	1599796.61	735997.36
44–4	1599709.49	736046.46
44–5	1600174.26	736505.14
44–6	1600082.12	736544.00
44–7	1600028.80	736590.94
45–1	1599624.73	736099.51
45–2	1599544.89	736159.73
45–3	1599460.17	736212.85
45–4	1599381.64	736274.77
45–5	1599354.31	736299.00
45–6	1599974.95	736636.92
45–7	1599901.37	736699.32
45–8	1599811.75	736743.68
45–9	1599777.00	736768.63
45–10	1599767.44	736789.10
46–1	1599319.65	736353.23
46–2	1599292.00	736388.06
46–3	1599288.13	736417.04
46–4	1599012.10	736649.32
46–5	1598915.62	736675.62
46–6	1598815.69	736679.21
46–7	1598715.70	736677.60
46–8	1598615.71	736679.10
46–9	1599706.94	736826.65
46–10	1599634.25	736839.00
46–11	1599644.31	736889.16
46–12	1599615.37	736934.70
46–13	1599539.78	737000.17
46–14	1599452.37	737048.75
46–15	1599359.65	737086.20
46–16	1599264.31	737116.38
46–17	1599208.77	737125.80
47–1	1598515.73	736681.13
47–2	1598416.24	736691.20
47–3	1598316.25	736692.40
47–4	1598216.30	736689.02
47–5	1598116.33	736691.42
47–6	1598046.82	736695.18
47–7	1598009.00	736678.00
47–8	1597939.58	736606.02
47–9	1597868.61	736535.57
47–10	1597813.49	736493.50
47–11	1597914.22	736740.38
47–12	1597927.68	736707.73
47–13	1597887.94	736659.59
47–14	1597835.25	736616.08
47–15	1597780.06	736532.69
47–16	1598685.06	737293.73
47–17	1598620.22	737318.08
47–18	1598574.17	737313.10
47–19	1598494.84	737328.25
47–20	1598464.29	737328.29
47–21	1598439.37	737304.59

NEARSHORE SET POINTS		
POINT ID	NORTHING	EASTING
47–22	1598397.28	737261.97
48–1	1597544.32	736741.78
48–2	1597471.00	736760.16
48–3	1597371.38	736768.87
48–4	1597271.38	736769.39
48–5	1597189.69	736774.90
48–6	1597090.15	736772.54
48–7	1597000.17	736780.13
48–8	1596730.30	736849.99
48–9	1596679.00	736871.61
48–10	1596626.15	736892.41
48–11	1596559.00	736917.90
48–12	1596472.39	736948.15
48–13	1596250.30	737023.75
48–14	1596190.80	737049.13
48–15	1596122.58	737082.28
48–16	1597875.32	737269.06
48–17	1597827.45	737296.75
48–18	1597746.91	737310.50
48–19	1597647.14	737317.23
48–20	1597547.56	737308.03
48–21	1597448.28	737319.99
48–22	1597387.76	737339.00
48–23	1597363.00	737350.88
48–24	1597330.16	737346.92
49–1	1594555.94	737144.06
49–2	1594485.08	737109.92
49–3	1593928.59	736775.47
49–4	1593836.03	736727.04
49–5	1593751.87	736673.02
49–6	1593669.96	736615.65
49–7	1593579.92	736572.16
49–8	1593489.99	736528.43
49–9	1595140.50	737937.88
49–10	1595087.92	737912.67
49–11	1595039.58	737875.38
55–1	1592744.07	736278.07
55–2	1592683.40	736274.95
55–3	1592583.69	736267.33
55–4	1592503.79	736261.59
55–5	1593140.75	736901.14
55–6	1593086.83	736892.62
55–7	1593028.00	736875.50
55–8	1592989.66	736869.01
55–9	1592891.07	736852.28
55–10	1592813.29	736848.71
55–11	1592792.00	736838.68
55–12	1592713.73	736828.62
55–13	1592660.68	736846.99
55–14	1592560.82	736852.30
55–15	1592460.83	736852.83
56–1	1592435.29	736255.57
56–2	1592373.35	736255.65
56–3	1592243.29	736240.66
56–4	1592158.05	736228.37
56–5	1592039.61	736207.53
56–6	1591993.00	736199.83
56–7	1591951.92	736186.39
56–8	1592360.86	736850.50
56–9	1592287.00	736837.57
56–10	1592251.09	736826.91
56–11	1592197.69	736825.81
56–12	1592097.71	736824.00
56–13	1592042.50	736842.00
56–14	1592023.12	736855.01
56–15	1591991.44	736876.29
56–16	1591976.68	736879.00

NEARSHORE SET POINTS		
POINT ID	NORTHING	EASTING
56–17	1591956.78	736899.57
56–18	1591940.71	736921.71
56–19	1591921.75	736998.04
56–20	1591839.14	736927.72
56–21	1591842.06	736900.63
56–22	1591840.92	736861.92
56–23	1591820.56	736834.03
57–1	1591664.92	736770.04
57–2	1591610.33	736756.86
57–3	1591553.60	736746.73
57–4	1591454.95	736730.34
57–5	1591356.50	736712.80
57–6	1591258.48	736693.02
58–1	1591185.15	736684.00
58–2	1591149.36	736675.36
58–3	1591130.00	736666.15
58–4	1591115.00	736661.59
58–5	1591064.32	736661.42
58–6	1591007.00	736647.40
58–7	1590968.34	736633.34
58–8	1590903.17	736627.08
58–9	1590687.69	736635.92
58–10	1590581.94	736639.99
58–11	1590481.95	736641.23
58–12	1590416.55	736650.03

FOR EPA REVIEW - NOT FOR CONSTRUCTION

XREFS:
XGN-TB04

CITY: SYRACUSE, NY DIV/GROUP: 141/ENVCAD DB: L.POSENAUER LD: L.POSENAUER PM: C.GUEST LYR:ON=*;OFF=*REF*
V:\ENVCAD\SYRACUSE\ACT\CIB0031087\0003\04100\K42A-MOD_2013-03\REACH8\B-B-2802.dwg LAYOUT: B-2802 SAVED: 8/19/2013 4:16 PM PAGESETUP: ---- PLOTSTYLETABLE: PLTCONT.CTB PLOTTED: 8/19/2013 4:16 PM BY: POSENAUER, LISA

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

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Professional Engineer's Name
Professional Engineer's No.
State | Date Signed | Project Mgr.
Designed by | Drawn by | Checked by

ARCADIS
ARCADIS OF NEW YORK, INC.
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

GENERAL ELECTRIC COMPANY • HUDSON RIVER PCBs SUPERFUND SITE
SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

BACKFILL - NEARSHORE SET POINTS TABLE

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No.
B0031087.0003.04900
Date
AUGUST 19, 2013
ARCADIS
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

B-2802

FOR EPA REVIEW - NOT FOR CONSTRUCTION

LEGEND:

- CERTIFICATION UNIT
- EXTENT OF FLOODPLAIN ISOLATION COVER
- A — TYPE P ARMOR STONE SHORELINE TREATMENT (1 / B-2221)
- B — NEARSHORE BACKFILL (2 / B-2221)
- W — WETLAND AREA – SEE NOTE 4
- EXISTING RIVERINE FRINGING WETLAND

NOTES:

1. SEE SHEET B-2025 FOR GENERAL NOTES AND GENERAL LEGEND.
2. DETAILS FOR SHORELINE STABILIZATION TREATMENTS SHOWN ON DRAWING B-2221.
3. SEE G-SERIES REFERENCE DRAWINGS FOR SHORELINE FEATURES, GENERAL NOTES AND LEGEND. ALL LOCATIONS REFLECT AVAILABLE INFORMATION AT THE TIME OF DATA COLLECTION, MAY HAVE CHANGED SINCE THE TIME OF DATA COLLECTION, ARE APPROXIMATE, ARE PROVIDED FOR REFERENCE, AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
4. WHERE DESIGNATED, SHORELINE TREATMENT AT LOCATIONS WITH RIVERINE FRINGING WETLANDS SHALL CONSIST OF RIVERINE FRINGING WETLAND CONSTRUCTION AS SHOWN ON THE DRAWINGS. IF WETLANDS ARE NOT CONSTRUCTED IN THESE AREAS, THE SHORELINE TREATMENT SHALL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER.
5. SHORELINE STABILIZATION TREATMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS IF DREDGING OR THE IMPACTS OF DREDGING CONTACT THE SHORELINE SHOWN ON THE DRAWINGS. SHORELINE STABILIZATION TREATMENTS SHALL NOT BE INSTALLED IF DREDGING OR THE IMPACTS OF DREDGING DO NOT EXTEND TO THE SHORELINE SHOWN ON THE DRAWING UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER. IF SHORELINE TREATMENTS ARE NOT SHOWN ON THE DRAWINGS AND DREDGING OR THE IMPACTS OF DREDGING CONTACT THE SHORELINE SHOWN ON THE DRAWINGS, THE TYPES AND EXTENTS OF SHORELINE STABILIZATION TREATMENTS SHALL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER. SHORELINE TREATMENTS AT LOCATIONS WITH RIVERINE FRINGING WETLANDS SHALL CONSIST OF RIVERINE FRINGING WETLAND CONSTRUCTION AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING WETLANDS DISTURBED OUTSIDE THE DREDGE PRISM LIMITS AT NO ADDITIONAL COST TO GE.
6. IF RIP RAP IS NOT PRESENT ALONG THE SHORELINE IN THE AREAS SHOWN ON THE DRAWINGS, TYPE P ARMOR STONE SHORELINE TREATMENT SHALL BE INSTALLED.

CITY: SYRACUSE, NY DIV/GROUP: 141/ENVCAD DB: L.POSENAUER LD: L.POSENAUER PM: C.GUEST LYR:ON=*;OFF=*REF*
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XBM-TEXT
XGN-BL01
XGN-COOR
XRV-RM01
XRV-FW01
XRV-TB04
XRV-SH02
XRV-OF01
XRV-AR01
XRV-NC01
XRV-IC01
XRV-CU01

100' 0 100' 200'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

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Professional Engineer's Name
Professional Engineer's No.
State | Date Signed | Project Mgr.
Designed by | Drawn by | Checked by

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GENERAL ELECTRIC COMPANY • HUDSON RIVER PCBs SUPERFUND SITE
SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

SHORELINE STABILIZATION TREATMENT - RIVER MILE 188.9 - 188.5

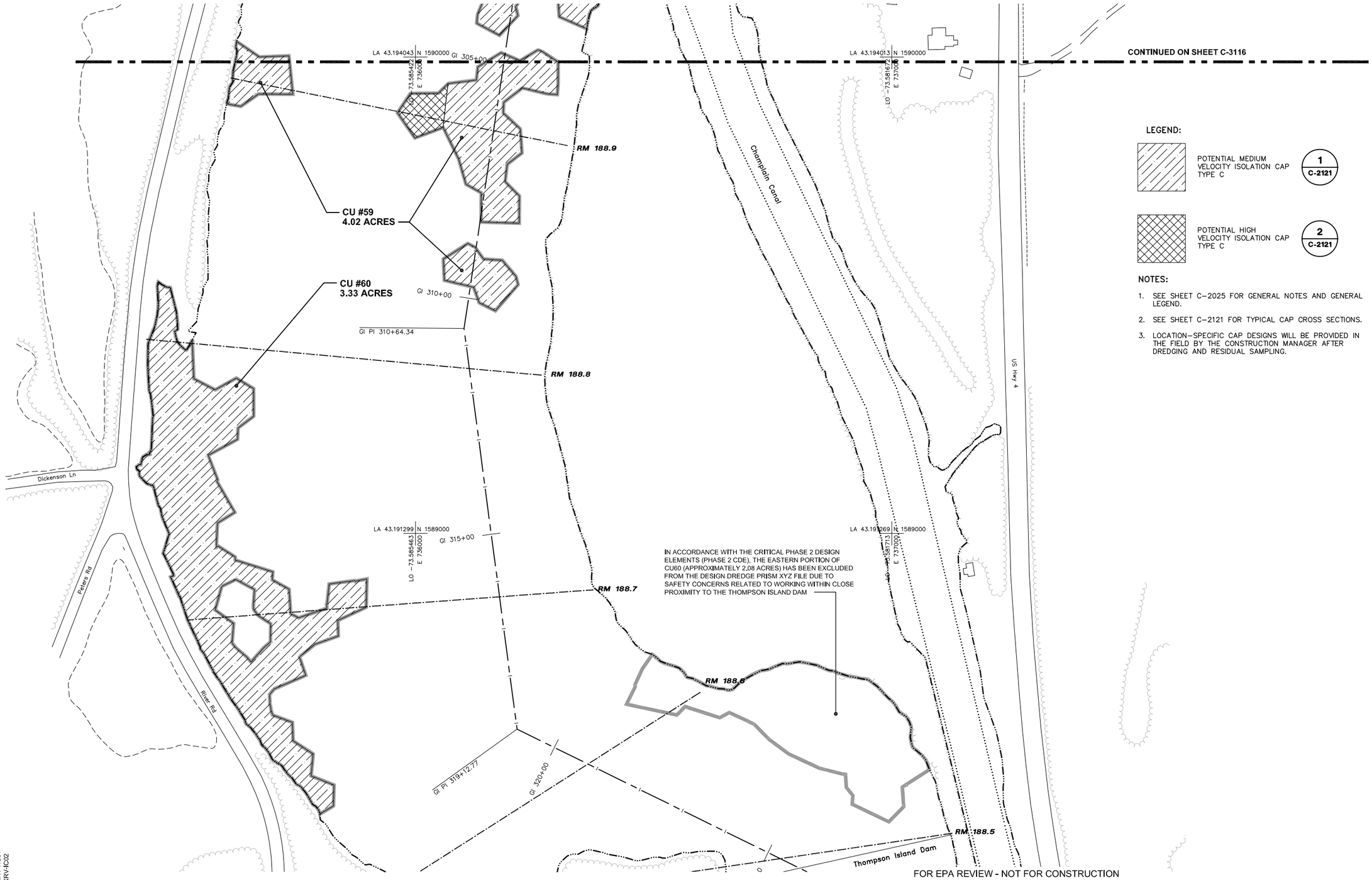
CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No.
B0031087.0003.04900

Date
AUGUST 19, 2013

ARCADIS
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

B-3117



LEGEND:

POTENTIAL MEDIUM VELOCITY ISOLATION CAP TYPE C — 1 / C-2121

POTENTIAL HIGH VELOCITY ISOLATION CAP TYPE C — 2 / C-2121

NOTES:

1. SEE SHEET C-2025 FOR GENERAL NOTES AND GENERAL LEGEND.
2. SEE SHEET C-2121 FOR TYPICAL CAP CROSS SECTIONS.
3. LOCATION-SPECIFIC CAP DESIGNS WILL BE PROVIDED IN THE FIELD BY THE CONSTRUCTION MANAGER AFTER DREDGING AND RESIDUAL SAMPLING.

FOR EPA REVIEW - NOT FOR CONSTRUCTION

XREFS:
XBM-MAJR
XBM-TEXT
XGN-BL01
XRV-CU01
XRV-RM01
XBM-MINR
XGN-CDOR
XRV-TB01
XRV-NC01
XRV-IC02

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Professional Engineer's Name
Professional Engineer's No.
State | Date Signed | Project Mgr.
Designed by | Drawn by | Checked by

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GENERAL ELECTRIC COMPANY • HUDSON RIVER PCBs SUPERFUND SITE
SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

ISOLATION CAP TYPE C - RIVER MILE 188.9 - 188.5

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No. B0031087.0003.04900
Date AUGUST 19, 2013
ARCADIS 6723 Towpath Road Syracuse, NY 13214 315-446-9120

C-3117

CITY: SYRACUSE, NY DIV/GROUP: 141/ENVCAD DB: L.POSENAUER LD: L.POSENAUER PM: C.GUEST LYRON="OFF=*REF*
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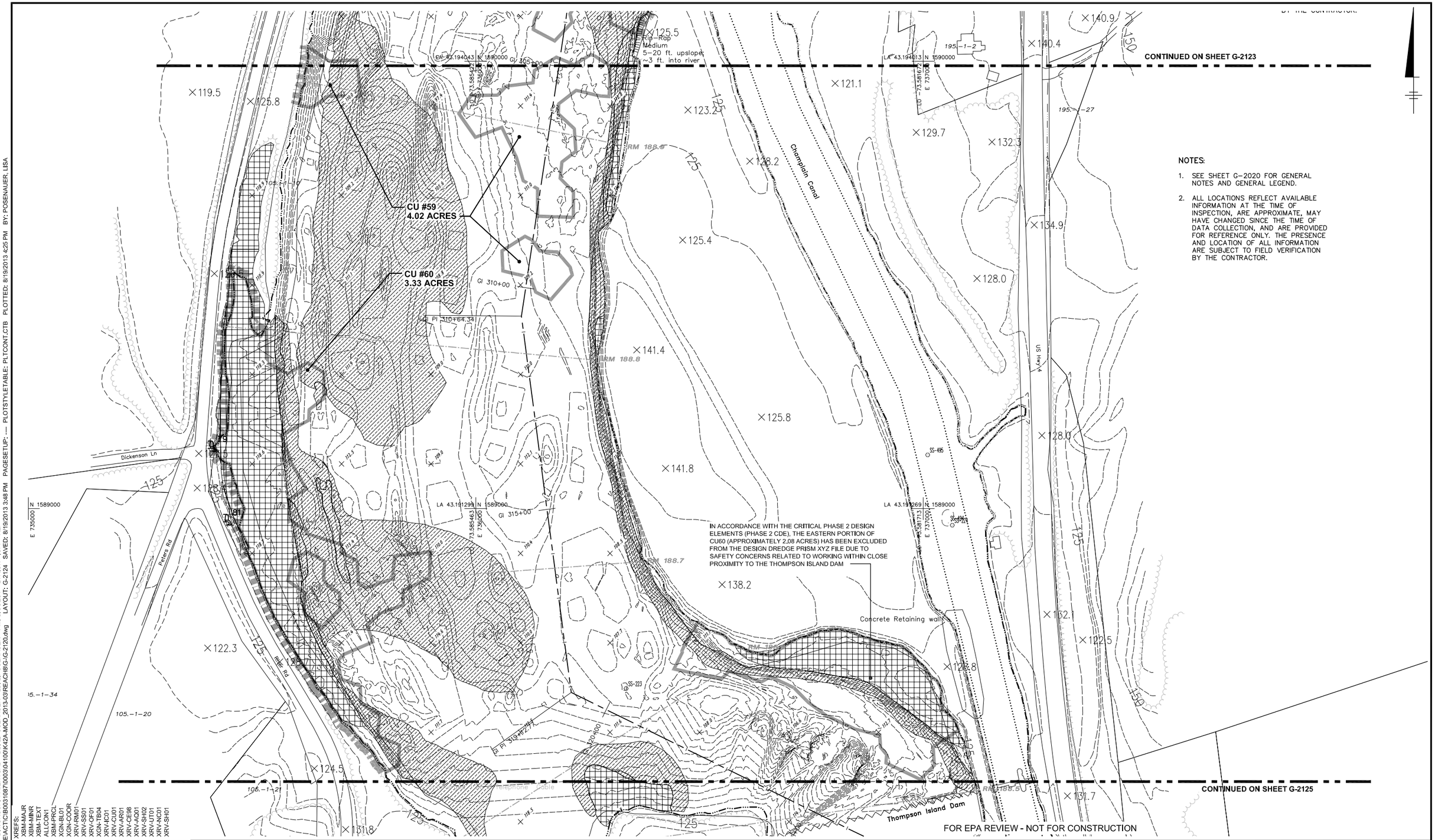

NOTES:

1. SEE SHEET G-2020 FOR GENERAL NOTES AND GENERAL LEGEND.
2. ALL LOCATIONS REFLECT AVAILABLE INFORMATION AT THE TIME OF INSPECTION, ARE APPROXIMATE, MAY HAVE CHANGED SINCE THE TIME OF DATA COLLECTION, AND ARE PROVIDED FOR REFERENCE ONLY. THE PRESENCE AND LOCATION OF ALL INFORMATION ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.

FOR EPA REVIEW - NOT FOR CONSTRUCTION

XREFS:
XBM-MAJR
XBM-MINR
XBM-TEXT
ALLCON1
XBM-PRCL
XGN-BL01
XGN-COOR
XRV-AQ001
XRV-SS01
XRV-OF01
XGN-TB04
XRV-IC01
XRV-CU01
XRV-AR01
XRV-CE98
XRV-AQ01
XRV-SH02
XRV-AT01
XRV-AT01
XRV-SH01

100' 0 100' 200'

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Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

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GENERAL ELECTRIC COMPANY • HUDSON RIVER PCBs SUPERFUND SITE

SEDIMENT REMEDIATION - PHASE 2 DREDGING PROJECT

EXISTING CONDITIONS - RIVER MILE 188.9 - 188.5 REFERENCE DRAWING

CONTRACT 42A - DREDGING OPERATIONS

ARCADIS Project No.
B0031087.0003.04900

Date
AUGUST 19, 2013

ARCADIS
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

G-2124

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