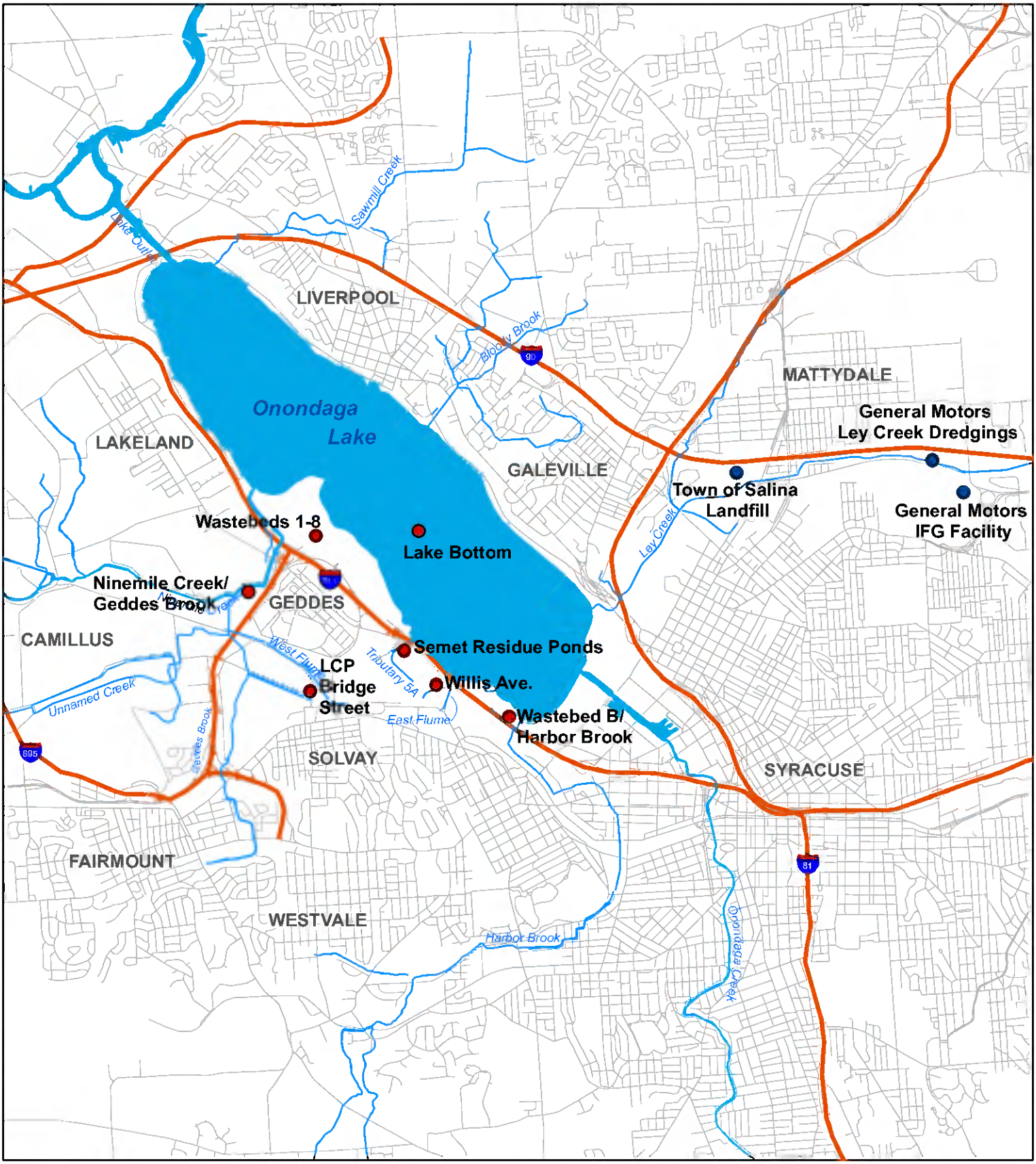

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Date Revised: 8/18/2011 10:08:13 AM

Honeywell NPL Site

Non-Honeywell NPL Site

N

0 0.5 1 2

Miles

FIGURE 1.1

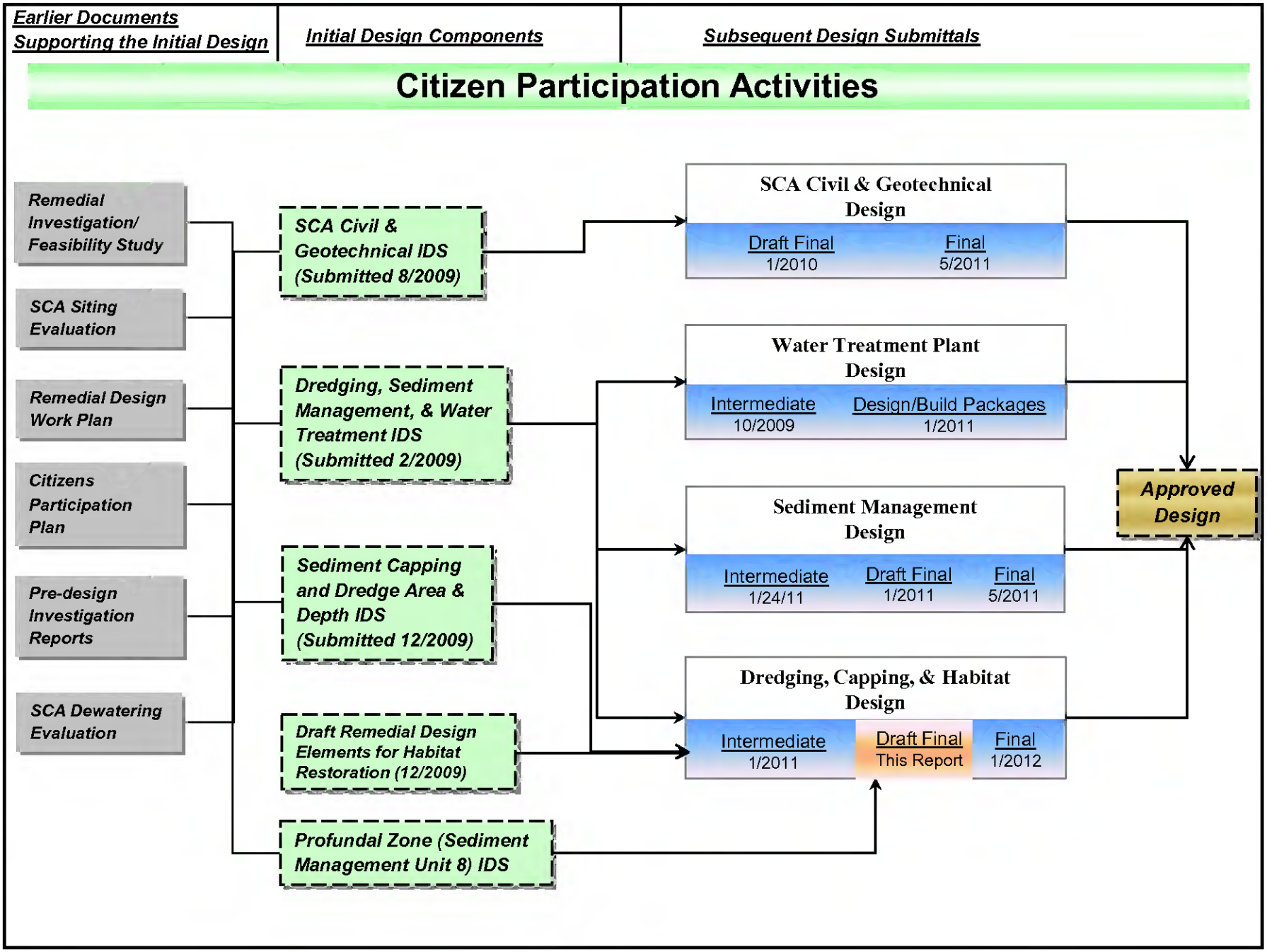
Honeywell

Onondaga Lake
Syracuse, New York

Site Location

PARSONS

301 PLAINFIELD RD, SUITE 350; SYRACUSE, NY 13212


Earlier Documents Supporting the Initial Design
Initial Design Components
Subsequent Design Submittals
Citizen Participation Activities
Remedial Investigation/ Feasibility Study
SCA Siting Evaluation
Remedial Design Work Plan
Citizens Participation Plan
Pre-design Investigation Reports
SCA Dewatering Evaluation
SCA Civil & Geotechnical IDS (Submitted 8/2009)
Dredging, Sediment Management, & Water Treatment IDS (Submitted 2/2009)
Sediment Capping and Dredge Area & Depth IDS (Submitted 12/2009)
Draft Remedial Design Elements for Habitat Restoration (12/2009)
Profundal Zone (Sediment Management Unit 8) IDS
SCA Civil & Geotechnical Design
Draft Final 1/2010
Final 5/2011
Water Treatment Plant Design
Intermediate 10/2009
Design/Build Packages 1/2011
Sediment Management Design
Intermediate 1/24/11
Draft Final 1/2011
Final 5/2011
Dredging, Capping, & Habitat Design
Intermediate 1/2011
Draft Final This Report
Final 1/2012
Approved Design

Wastebed

Sediment Management Unit (SMU) Boundary

NYSDEC Wetlands

Delineated Wetlands

Notes:
1. Wetland boundary delineations were performed during various upland site investigation programs. Some of the delineations are currently under NYSDEC review.

N

New York State Digital Orthoimagery from 2009

1,900 950 0 1,900
Feet

FIGURE 1.2

Honeywell Onondaga Lake Syracuse, New York

Vicinity Wetlands and Wastebeds

PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

Date Revised: 1/20/2011 9:07:54 AM

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Remediation Area A

SMU 5
SMU 4

SMU 3
SMU 4

Wastebeds 1-8

Ninemile Creek

Remediation Area B

Delineated Wetland Boundaries

Remediation Area Boundary

Isolation Cap Area

Dredge Area

Sediment Management Unit (SMU) Boundary

Groundwater Collection Trench

N

New York State Digital Orthoimagery from 2009

0 300 600 1,200

Feet

FIGURE 3.2

Honeywell

Onondaga Lake
Syracuse, New York

Remediation Areas A & B
Dredge and Cap Areas

PARSONS

301 PLAINFIELD RD. SUITE 350, SYRACUSE, NY 13212

Date Revised: 8/24/2011 10:14:20 AM

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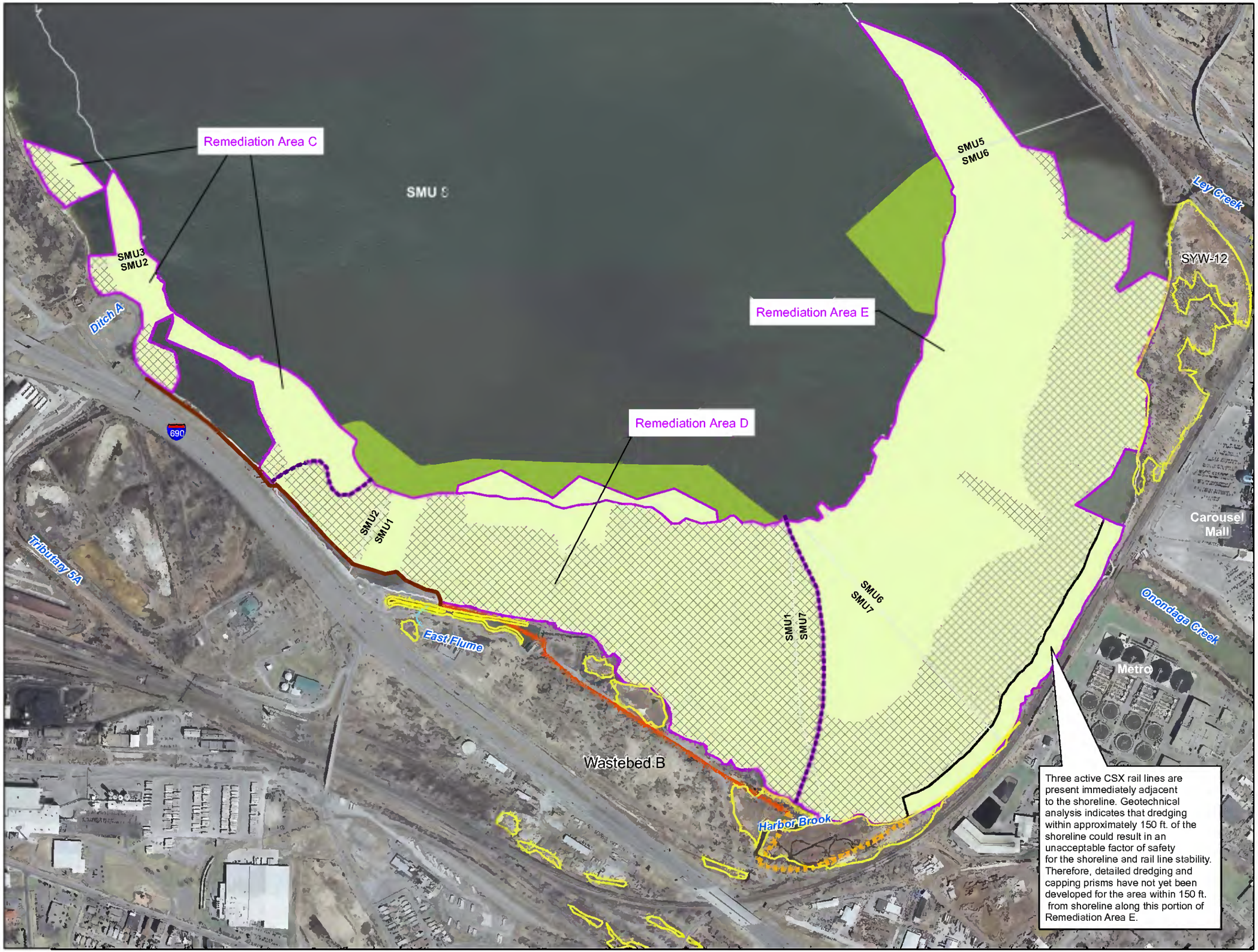

Remediation Area Boundary
Isolation Cap Area
SMU 8 Thin-layer Cap Area
Dredge Area
Delineated Wetland Boundaries
Sediment Management Unit (SMU) Boundary
Extent of ILWD in Littoral Zone
Willis/Semet IRM Barrier Wall
West Wall Portion of the WB-B/HB IRM
East Wall Portion of the WB-B/HB IRM

N

New York State Digital Orthoimagery from 2009

650 325 0 650
Feet

FIGURE 3.3

Honeywell Onondaga Lake Syracuse, New York

Remediation Areas C, D, & E Dredge & Cap Areas

PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

User: p0013927
Date Revised: 8/18/2011 10:02:56 AM
Path: Q:\GIS\GIS_Lake\CAP\MXD\Intermediate_Design\RemsCDE_Dredge_Cap.mxd

Remediation Area Boundary

Sediment Management Unit (SMU) Boundary

Delineated Wetland Boundaries

Isolation Cap Area

N

New York State Digital Orthoimagery from 2009

750 375 0 750

Feet

FIGURE 3.4

Honeywell Onondaga Lake Syracuse, New York

Remediation Area F Cap Area

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

Date Revised: 1/3/2011 5:22:27 PM

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Date Revised: 8/17/2011 10:55:09 AM

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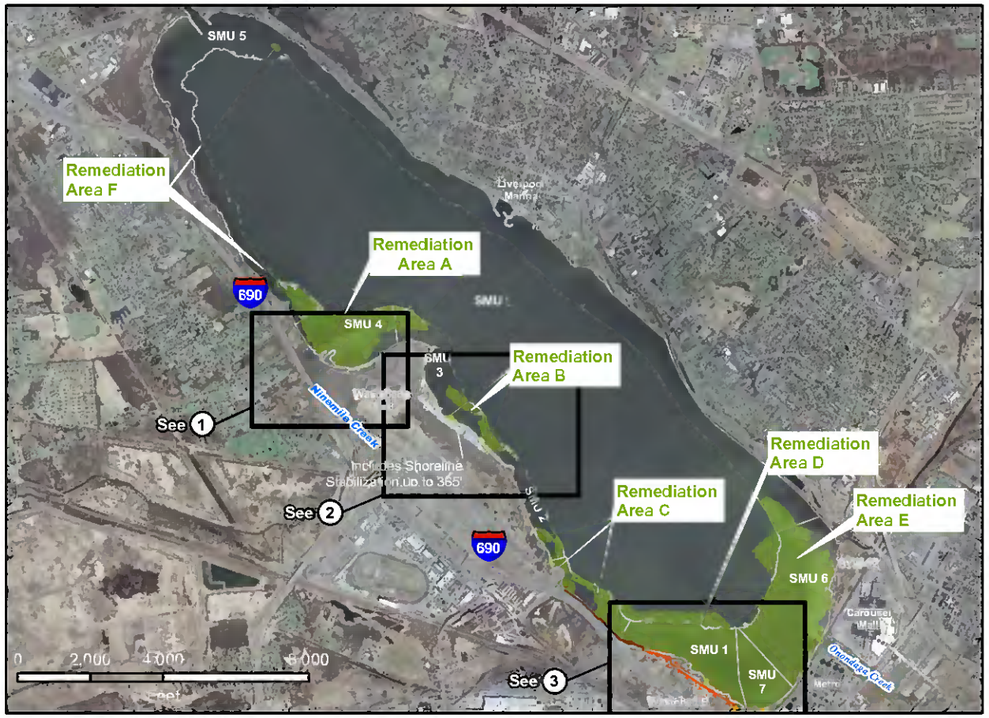
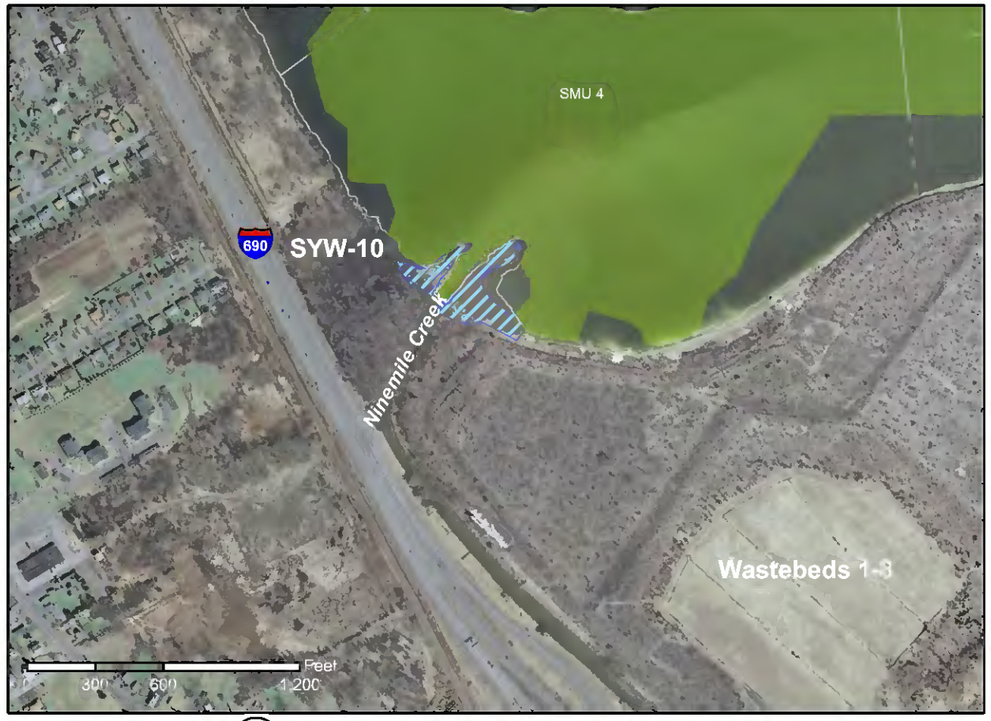


Onondaga Lake Overall Site Plan



1 Ninemile Creek Spits

2 Wastebeds 1-8 Connected Wetlands

3 Wastebed B/ Harbor Brook Outboard Area

Sediment Management Unit (SMU) Boundary

Remediation Area (Parsons, 2010)

Wetland Areas to be included in the Onondaga Lake Design

Willis/Semet IRM Barrier Wall

West Wall Portion of the WB-B/HB IRM

East Wall Portion of the WB-B/HB IRM

N

New York State Digital Orthoimagery from 2009

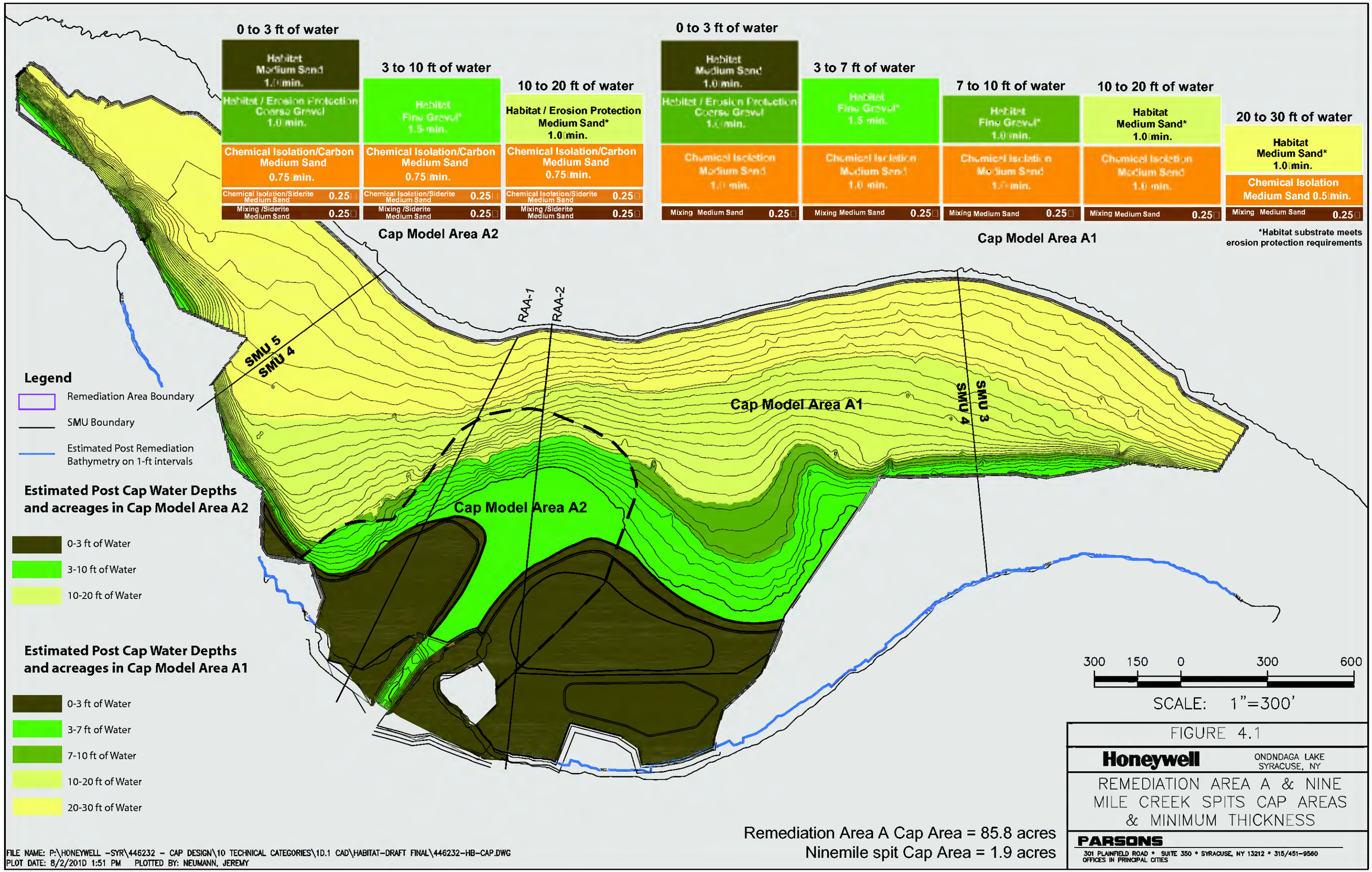
FIGURE 3.5

Honeywell Onondaga Lake Syracuse, New York

Adjacent Areas Included in Design

PARSONS

301 Plainfield Road, Suite 350; Syracuse, NY 13212


0 to 3 ft of water
Habitat
Medium Sand
1.0 min.
Habitat / Erosion Protection
Coarse Gravel
1.0 min.
Chemical Isolation/Carbon
Medium Sand
0.75 min.
Chemical Isolation/Siderite
Medium Sand 0.25
Mixing /Siderite
Medium Sand 0.25
3 to 10 ft of water
Habitat
Fine Gravel*
1.5 min.
Chemical Isolation/Carbon
Medium Sand
0.75 min.
Chemical Isolation/Siderite
Medium Sand 0.25
Mixing /Siderite
Medium Sand 0.25
10 to 20 ft of water
Habitat / Erosion Protection
Medium Sand*
1.0 min.
Chemical Isolation/Carbon
Medium Sand
0.75 min.
Chemical Isolation/Siderite
Medium Sand 0.25
Mixing /Siderite
Medium Sand 0.25
Cap Model Area A2
0 to 3 ft of water
Habitat
Medium Sand
1.0 min.
Habitat / Erosion Protection
Coarse Gravel
1.0 min.
Chemical Isolation
Medium Sand
1.0 min.
Mixing Medium Sand 0.25
3 to 7 ft of water
Habitat
Fine Gravel*
1.5 min.
Chemical Isolation
Medium Sand
1.0 min.
Mixing Medium Sand 0.25
7 to 10 ft of water
Habitat
Fine Gravel*
1.0 min.
Chemical Isolation
Medium Sand
1.0 min.
Mixing Medium Sand 0.25
10 to 20 ft of water
Habitat
Medium Sand*
1.0 min.
Chemical Isolation
Medium Sand
1.0 min.
Mixing Medium Sand 0.25
20 to 30 ft of water
Habitat
Medium Sand*
1.0 min.
Chemical Isolation
Medium Sand 0.5 min.
Mixing Medium Sand 0.25
Cap Model Area A1
*Habitat substrate meets erosion protection requirements
RAA-1
RAA-2
SMU 5
SMU 4
SMU 4
SMU 3
Cap Model Area A1
Cap Model Area A2
Legend
Remediation Area Boundary
SMU Boundary
Estimated Post Remediation Bathymetry on 1-ft intervals
Estimated Post Cap Water Depths and acreages in Cap Model Area A2
0-3 ft of Water
3-10 ft of Water
10-20 ft of Water
Estimated Post Cap Water Depths and acreages in Cap Model Area A1
0-3 ft of Water
3-7 ft of Water
7-10 ft of Water
10-20 ft of Water
20-30 ft of Water
300 150 0 300 600
SCALE: 1"=300'
Remediation Area A Cap Area = 85.8 acres
Ninemile spit Cap Area = 1.9 acres
FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\1D.1 CAD\HABITAT-DRAFT FINAL\446232-HB-CAP.DWG
PLOT DATE: 8/2/2010 1:51 PM PLOTTED BY: NEUMANN, JEREMY
FIGURE 4.1
Honeywell
ONONDAGA LAKE
SYRACUSE, NY
REMEDIATION AREA A & NINE MILE CREEK SPITS CAP AREAS & MINIMUM THICKNESS
PARSONS
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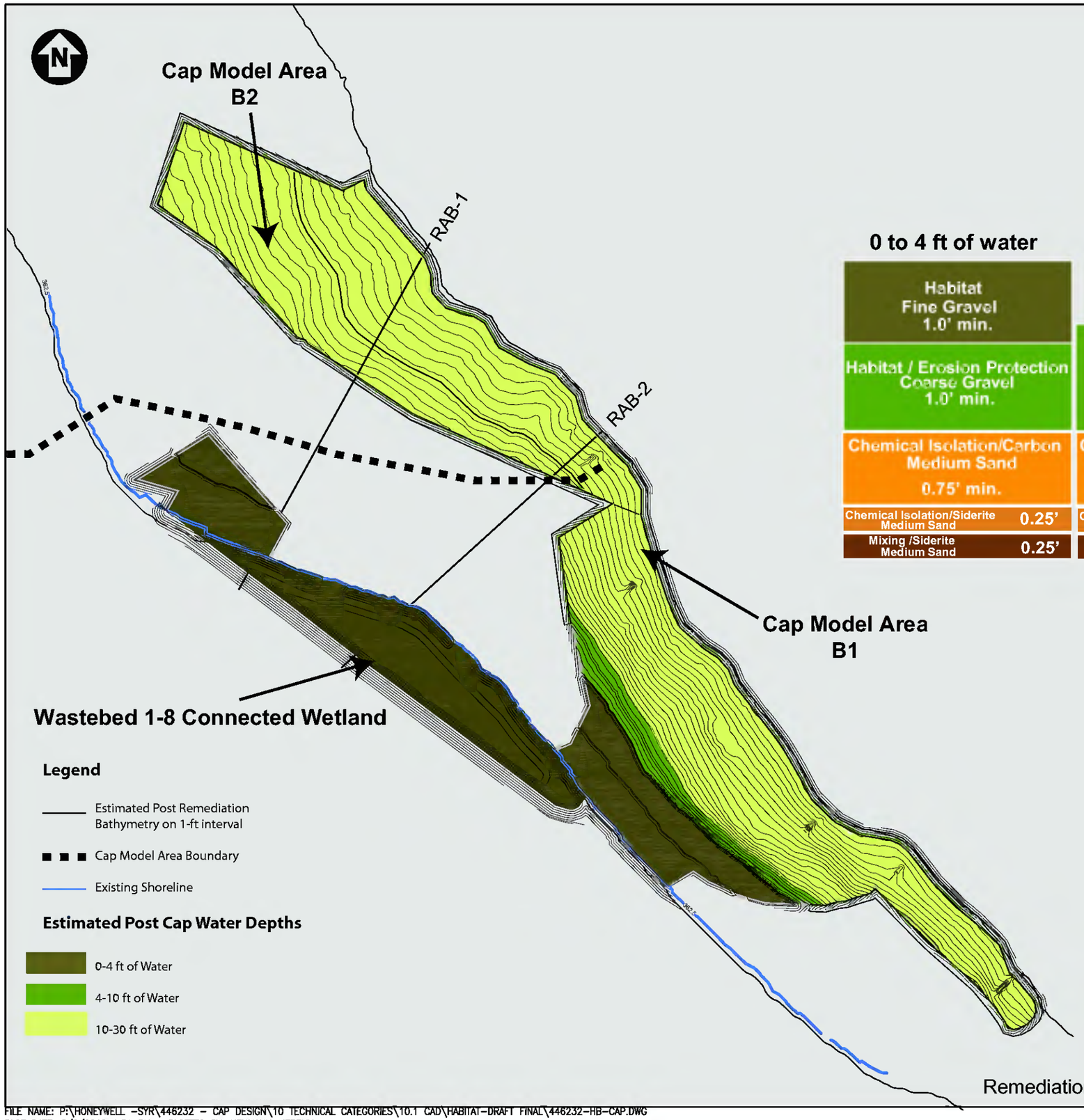
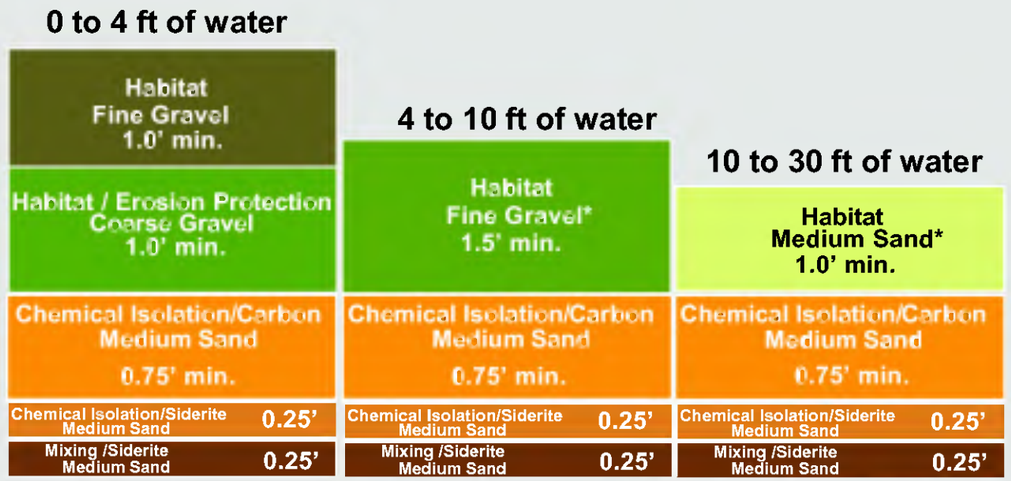
OFFICES IN PRINCIPAL CITIES





*Habitat substrate meets erosion protection requirements

250 0 250 500

SCALE: 1"=250'

Remediation Area B Cap Area=16.6 acres

FIGURE 4.2

Honeywell ONONDAGA LAKE SYRACUSE, NY

REMEDIATION AREA B & WB 1-8 CONNECTED WETLAND CAP AREAS AND MINIMUM THICKNESS

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FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HB-CAP.DWG
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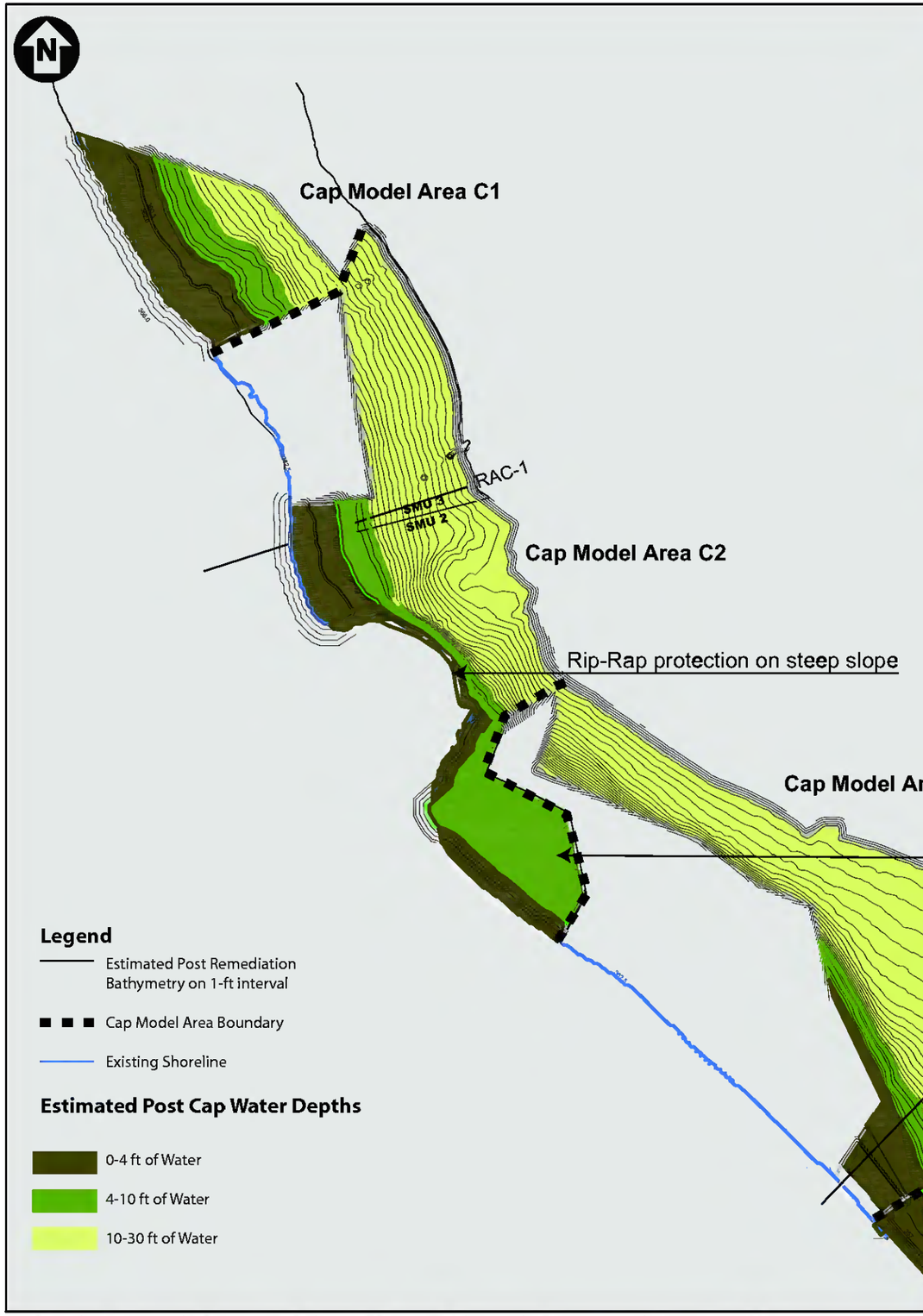

Legend

- Estimated Post Remediation Bathymetry on 1-ft interval
- Cap Model Area Boundary
- Existing Shoreline

Estimated Post Cap Water Depths

- 0-4 ft of Water
- 4-10 ft of Water
- 10-30 ft of Water

0 to 4 ft of water

Habitat Fine Gravel 1.0' min.	
Habitat / Erosion Protection Coarse Gravel 1.0' min.	
Chemical Isolation/Carbon Medium Sand 0.75' min.	
Chemical Isolation/Siderite Medium Sand	0.25'
Mixing /Siderite Medium Sand	0.25'

4 to 10 ft of water

Habitat Fine Gravel* 1.5' min.	
Chemical Isolation/Carbon Medium Sand 0.75' min.	
Chemical Isolation/Siderite Medium Sand	0.25'
Mixing /Siderite Medium Sand	0.25'

10 to 30 ft of water

Habitat Medium Sand* 1.0' min.	
Chemical Isolation/Carbon Medium Sand 0.75' min.	
Chemical Isolation/Siderite Medium Sand	0.25'
Mixing /Siderite Medium Sand	0.25'

*Habitat substrate meets erosion protection requirements

4 to 10 ft of water

Habitat Coarse Gravel* 1.5' min.	
Chemical Isolation/Carbon Medium Sand 0.75' min.	
Chemical Isolation/Siderite Medium Sand	0.25'
Mixing /Siderite Medium Sand	0.25'

300 150 0 300 600

SCALE: 1"=300'

FIGURE 4.3

Honeywell — ONONDAGA LAKE SYRACUSE, NY

REMEDIATION AREA C CAP AREAS AND MINIMUM THICKNESS

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FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HB-CAP.DWG
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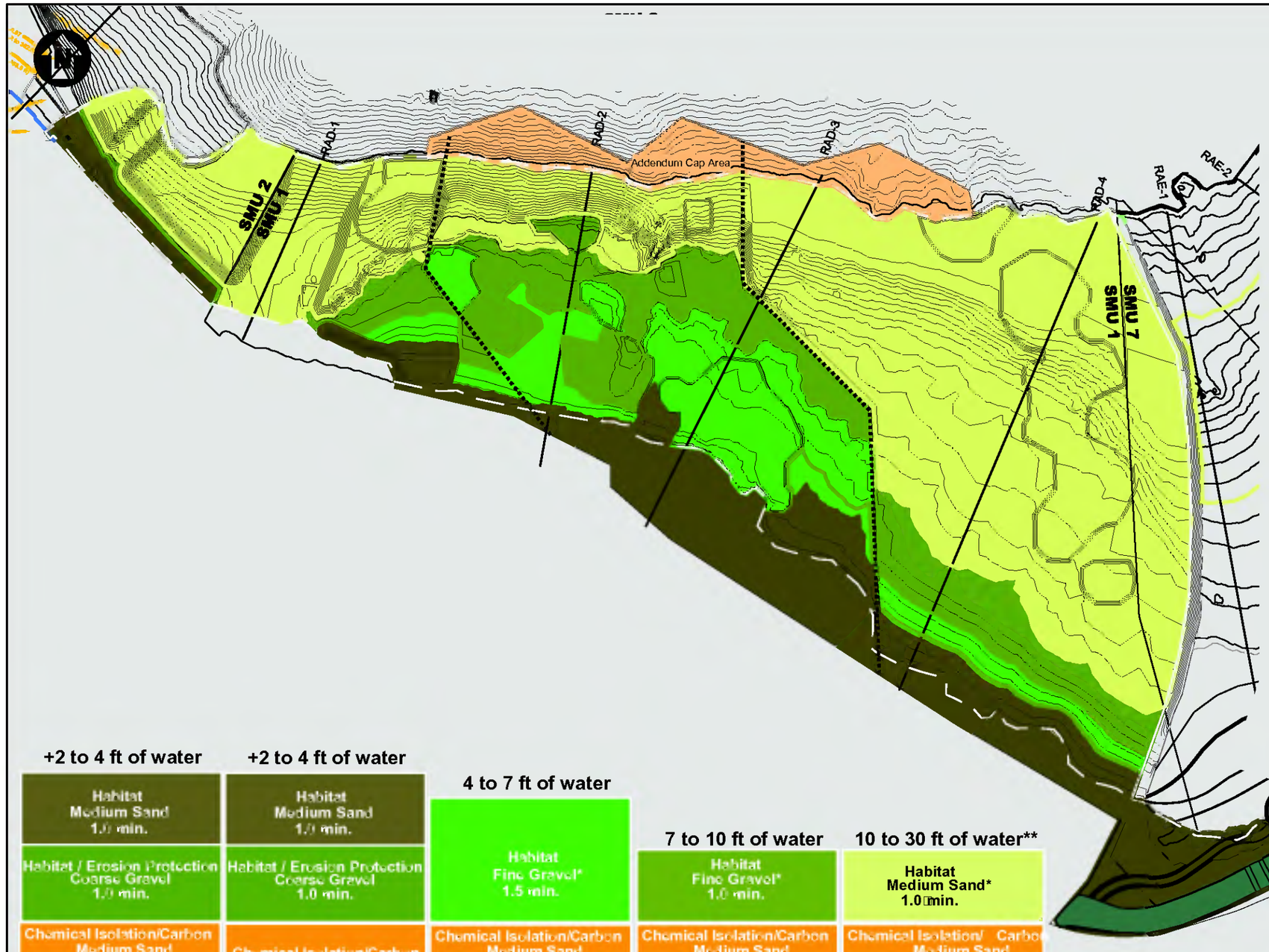

Legend

- Estimated Post Remediation Bathymetry on 1-ft interval
- Cap Model Area Boundary
- Existing Shoreline

Estimated Post Cap Water Depths

- Outboard West +2-4 ft of Water
- Outboard East +2-4 ft of Water
- 0-4 ft of Water
- 4-7 ft of Water
- 7-10 ft of Water
- 10-30 ft of Water
- Addendum Cap Area

+2 to 4 ft of water

Habitat
Medium Sand
1.0 min.

Habitat / Erosion Protection
Coarse Gravel
1.0 min.

Chemical Isolation/Carbon
Medium Sand
0.75 min.

Chemical Isolation/Siderite Medium Sand 0.25

Mixing /Siderite Medium Sand 0.25

RA-D & West Outboard Cap

+2 to 4 ft of water

Habitat
Medium Sand
1.0 min.

Habitat / Erosion Protection
Coarse Gravel
1.0 min.

Chemical Isolation/Carbon
Medium Sand
1.0 min.

Mixing /Carbon Medium Sand 0.25

East Outboard Cap

4 to 7 ft of water

Habitat
Fine Gravel*
1.5 min.

Chemical Isolation/Carbon
Medium Sand
0.75 min.

Chemical Isolation/Siderite Medium Sand 0.25

Mixing /Siderite Medium Sand 0.25

7 to 10 ft of water

Habitat
Fine Gravel*
1.0 min.

Chemical Isolation/Carbon
Medium Sand
0.75 min.

Chemical Isolation/Siderite Medium Sand 0.25

Mixing /Siderite Medium Sand 0.25

*Habitat substrate meets erosion protection requirements

10 to 30 ft of water**

Habitat
Medium Sand*
1.0 min.

Chemical Isolation/ Carbo
Medium Sand
0.75 min.

Chemical Isolation/Siderite Medium Sand 0.25

Mixing /Siderite Medium Sand 0.25

**Also applies to addendum cap area

Habitat
Fine Gravel*/Carbon
1.5 min.

Chemical Isolation/Carbon
Fine Gravel
1.0 min.

Mixing /Carbon Fine Gravel 0.25

Outboard Cap in Sequential Dredge/Cap Area

400 200 0 400 800

SCALE: 1"=400'

Remediation Area D Cap Area=98.5 acres
Outboard Cap Area=16.6 acres
Addendum Cap Area=5.6 acres

FIGURE 4.4

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

REMEDIATION AREA D &
WASTEBED B OUTBOARD CAP
AREAS & MINIMUM THICKNESS

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FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HB-CAP.DWG
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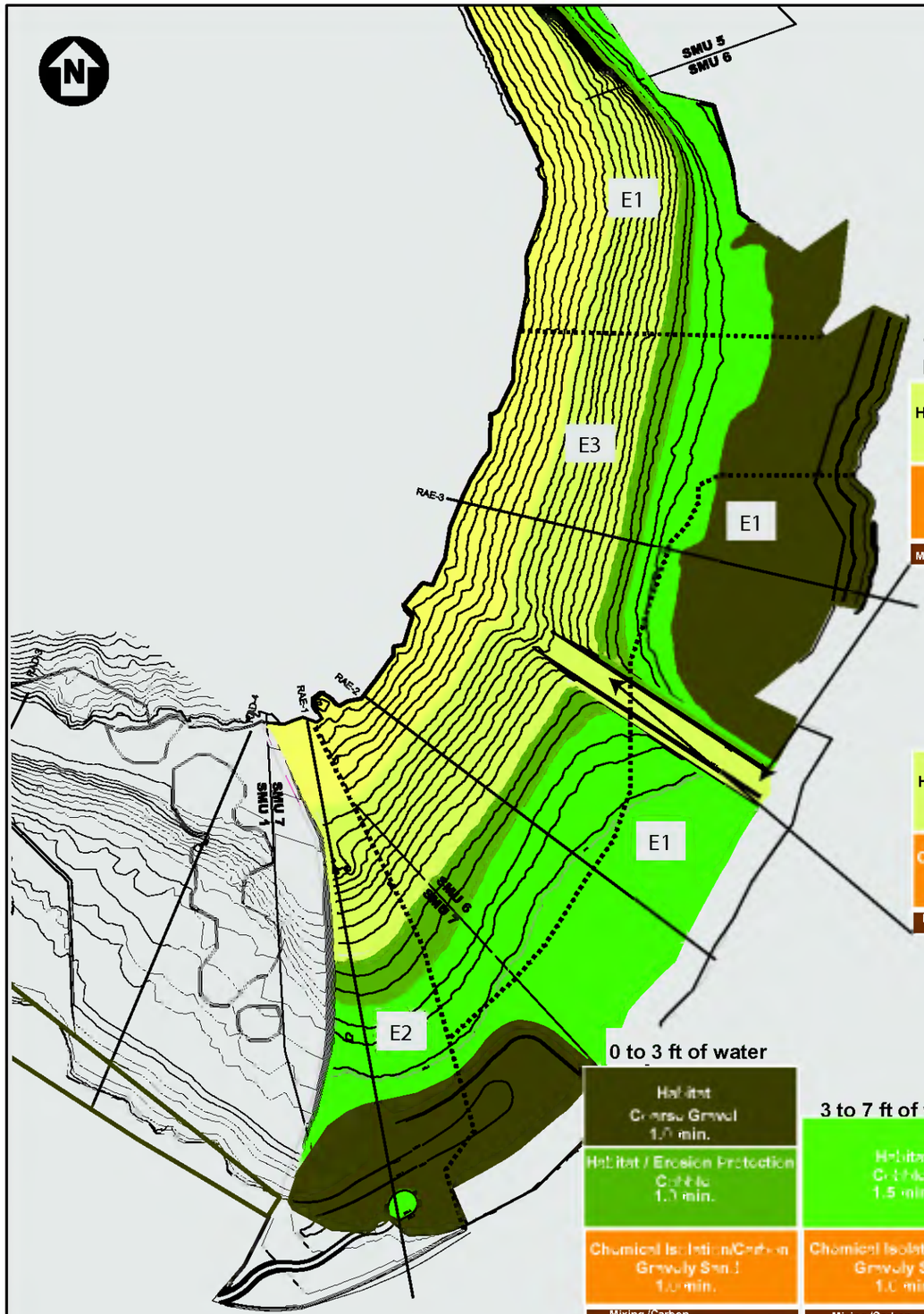

0 to 3 ft of water

Habitat
Coarse Gravel
1.0 min.

Habitat / Erosion Protection
Cobble
1.0 min.

Chemical Isolation
Gravelly Sand
1.0 min.

Mixing Medium Sand 0.25

3 to 7 ft of water

Habitat
Cobble*
1.5 min.

Chemical Isolation
Gravelly Sand
1.0 min.

Mixing Medium Sand 0.25

7 to 10 ft of water

Habitat
Coarse Gravel*
1.0 min.

Chemical Isolation
Medium Sand
1.0 min.

Mixing Medium Sand 0.25

10 to 20 ft of water

Habitat
Fine Gravel*
1.0 min.

Chemical Isolation
Medium Sand
1.0 min.

Mixing Medium Sand 0.25

20 to 30 ft of water

Habitat
Medium Sand*
1.0 min.

Chemical Isolation
Medium Sand
0.5 min.

Mixing Medium Sand 0.25

Cap Model Area E1

*Habitat substrate meets erosion protection requirements

10 to 20 ft of water
Navigation Channel

Habitat / Erosion Protection
Cobble
1.0 min.

Chemical Isolation
Gravelly Sand
1.0 min.

Mixing Medium Sand 0.25

Estimated Post Cap Water Depths
Cap Model Area E1

- 0-3 ft of Water
- 3-7 ft of Water
- 7-10 ft of Water
- 10-20 ft of Water
- Nav. Channel 10-20 ft of Water
- 20-30 ft of Water

10 to 20 ft of water
Navigation Channel

Habitat / Erosion Protection
Cobble
1.0 min.

Chemical Isolation/Carbon
Gravelly Sand
1.0 min.

Mixing /Carbon Medium Sand 0.25

Estimated Post Cap Water Depths
Cap Model Area E2 & E3

- 0-3 ft of Water
- 3-7 ft of Water
- 7-10 ft of Water
- 10-20 ft of Water
- Nav. Channel 10-20 ft of Water
- 20-30 ft of Water

0 to 3 ft of water

Habitat
Coarse Gravel
1.0 min.

Habitat / Erosion Protection
Cobble
1.0 min.

Chemical Isolation/Carbon
Gravelly Sand
1.0 min.

Mixing /Carbon Medium Sand 0.25

3 to 7 ft of water

Habitat
Cobble*
1.5 min.

Chemical Isolation/Carbon
Gravelly Sand
1.0 min.

Mixing /Carbon Medium Sand 0.25

7 to 10 ft of water

Habitat
Coarse Gravel*
1.0 min.

Chemical Isolation/Carbon
Medium Sand
1.0 min.

Mixing /Carbon Medium Sand 0.25

10 to 20 ft of water

Habitat
Fine Gravel*
1.0 min.

Chemical Isolation/Carbon
Medium Sand
1.0 min.

Mixing /Carbon Medium Sand 0.25

20 to 30 ft of water

Habitat
Medium Sand*

Chemical Isolation/Carbon
Medium Sand
0.5 min.

Mixing /Carbon Medium Sand 0.25

Cap Model Area E2 & E3

*Habitat substrate meets erosion protection requirements

Legend

- SMU Boundary
- Estimated Post Remediation Bathymetry on 1-ft intervals
- Cap Model Area Boundary

****GAC addition in E2 and E3 included for constructability purposes in mixing layer and is not accounted for in cap modeling**

Remediation Area E Cap Area = 175.5 acres
(Excluding CSX Shoreline)

600 300 0 600 1200

SCALE: 1"=600'

FIGURE 4.5

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

REMEDIATION AREA E CAP AREAS AND MINIMUM THICKNESS

PARSONS

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FILE NAME: P:\HONEYWELL –SYR\446232 – CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT–DRAFT FINAL\446232–HB–CAP.DWG
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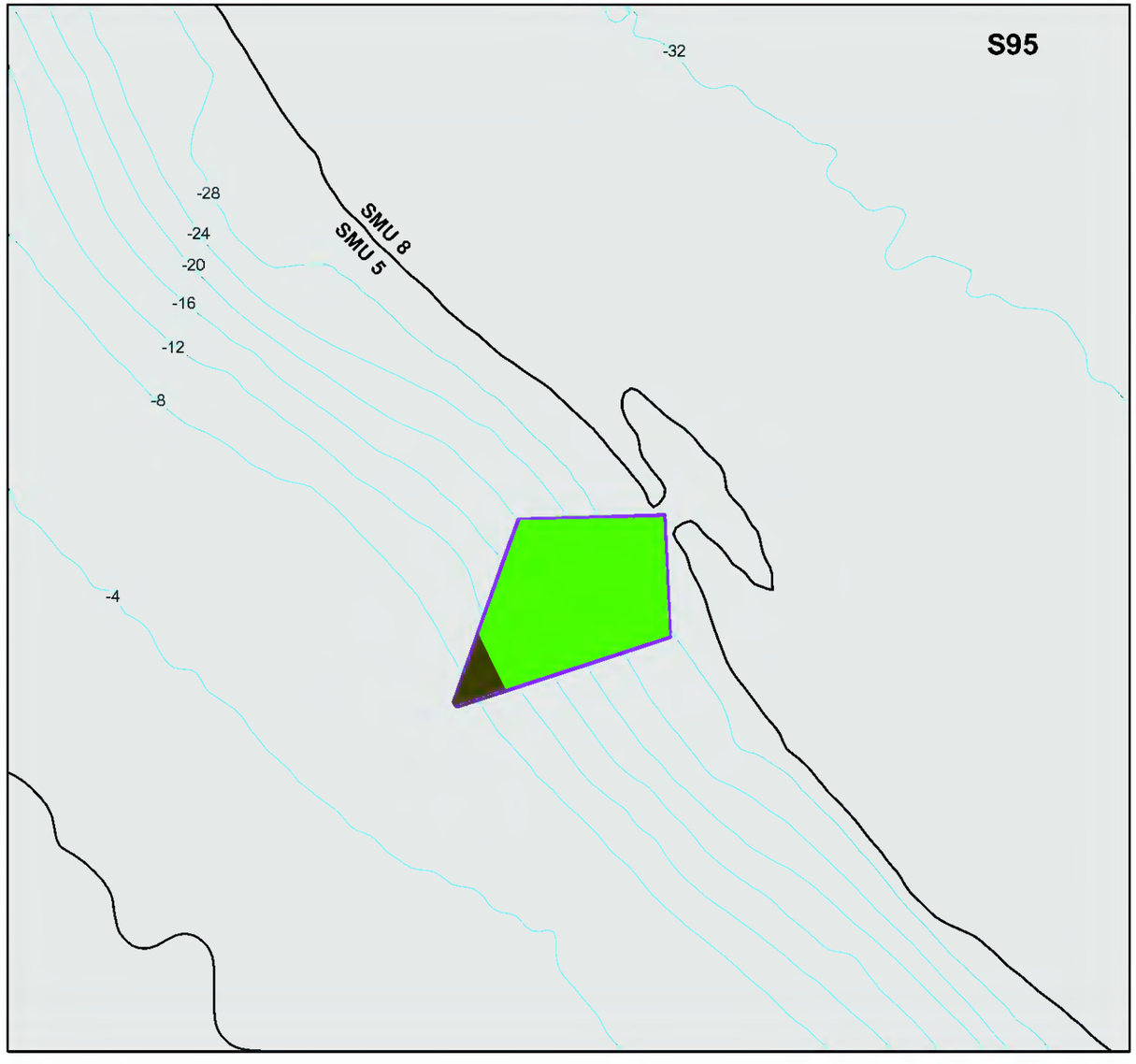

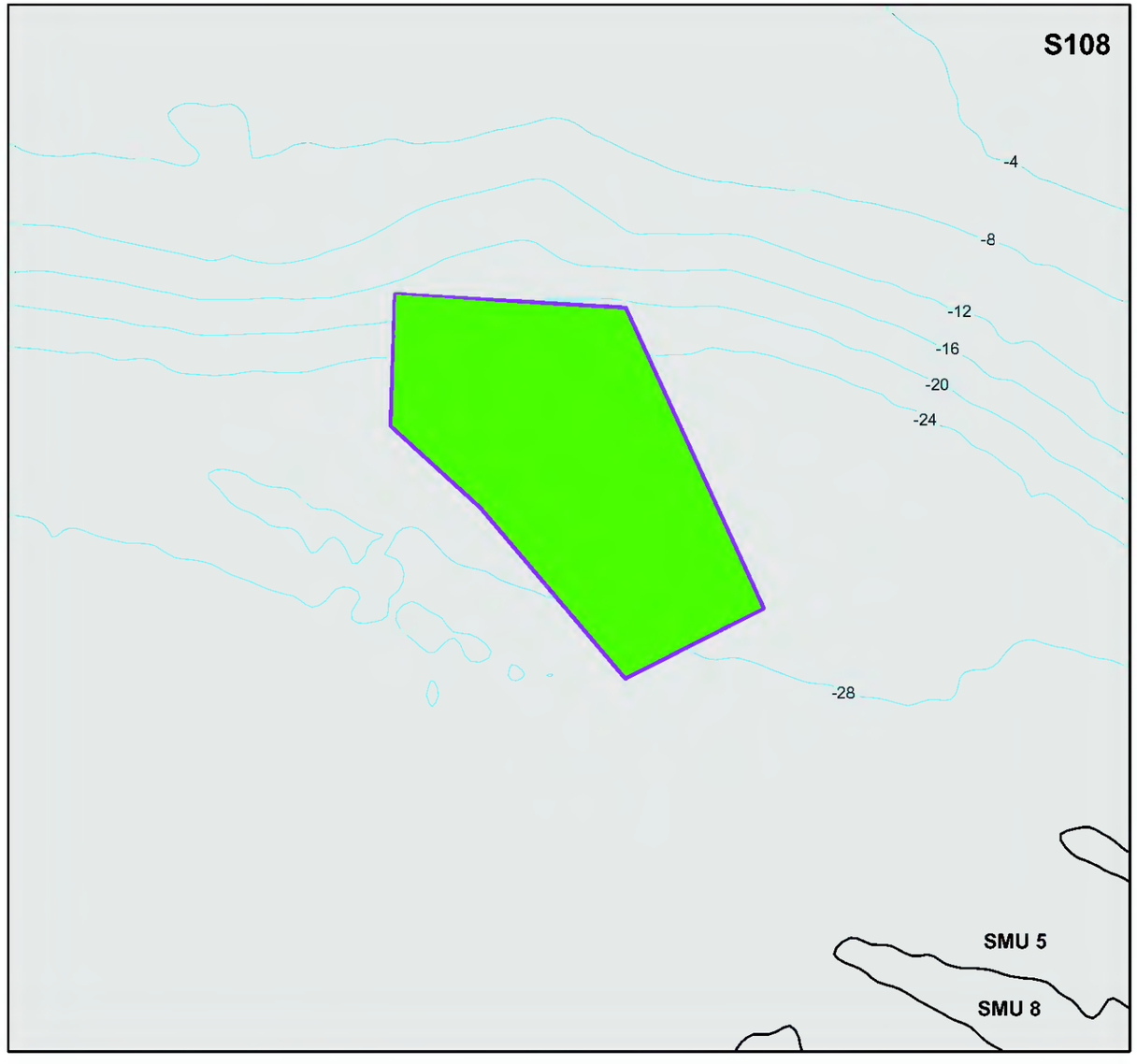

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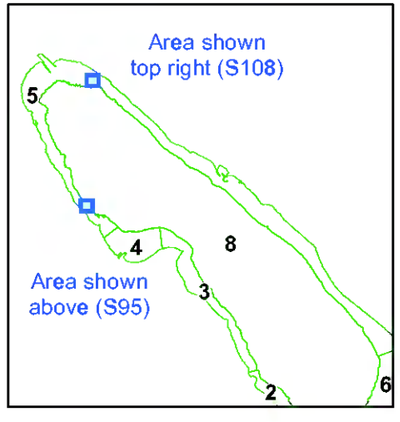

Legend

- Remediation Area Boundary
- SMU Boundary
- Current Bathymetry in 4 ft. Intervals

Estimated Post Cap Water Depths

- 3 - 7 ft of Water
- 7 - 20 ft of Water

3 to 7 ft of water

Habitat/Erosion Protection Fine Gravel 1.5' min.	
Chemical Isolation Medium Sand 1.0' min.	
Medium Sand	0.25'

7 to 20 ft of water

Habitat/Erosion Protection Medium Sand 1.0' min.	
Chemical Isolation Medium Sand 1.0' min.	
Medium Sand	0.25'

Remediation Area F Cap Area = 0.6 Acres

0 50 100 200

Feet

FIGURE 4.6

Honeywell

Onondaga Lake
Syracuse, New York

Remediation Area F Cap Area
And Minimum Thicknesses

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

LEGEND:

- CROSS SECTION LOCATION ANO IDENTIFIER
- SEDIMENT MANAGEMENT UNITS (SMU) BOUNDARY
- REMEDIATION AREA BOUNDARY
- NYSDEC APPROVED WETLAND BOUNDARIES
- HABITAT BOUNDARY LINE
- WASTEBEDS 1–8 COLLECTION TRENCH

N

SMU 8

REMEDIATION AREA A
(LOW ENERGY)

RAA-1

RAA-2

SMU 5

SMU 4

SMU 4

SMU 3

WASEBEDS 1–8
SHORELINE REVETMENT

1

2A

1

2A

3A

5A

5A

6A

5A

3B

9B

6A

9B

4A

300 150 0 300 600

SCALE: 1"=300'

FIGURE 4.7

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

HABITAT MODULE APPLICATION
REMEDIATION AREA A

PARSONS

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FILE NAME: P:\HONEYWELL -SYR\446232 – CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HE-SK003.DWG
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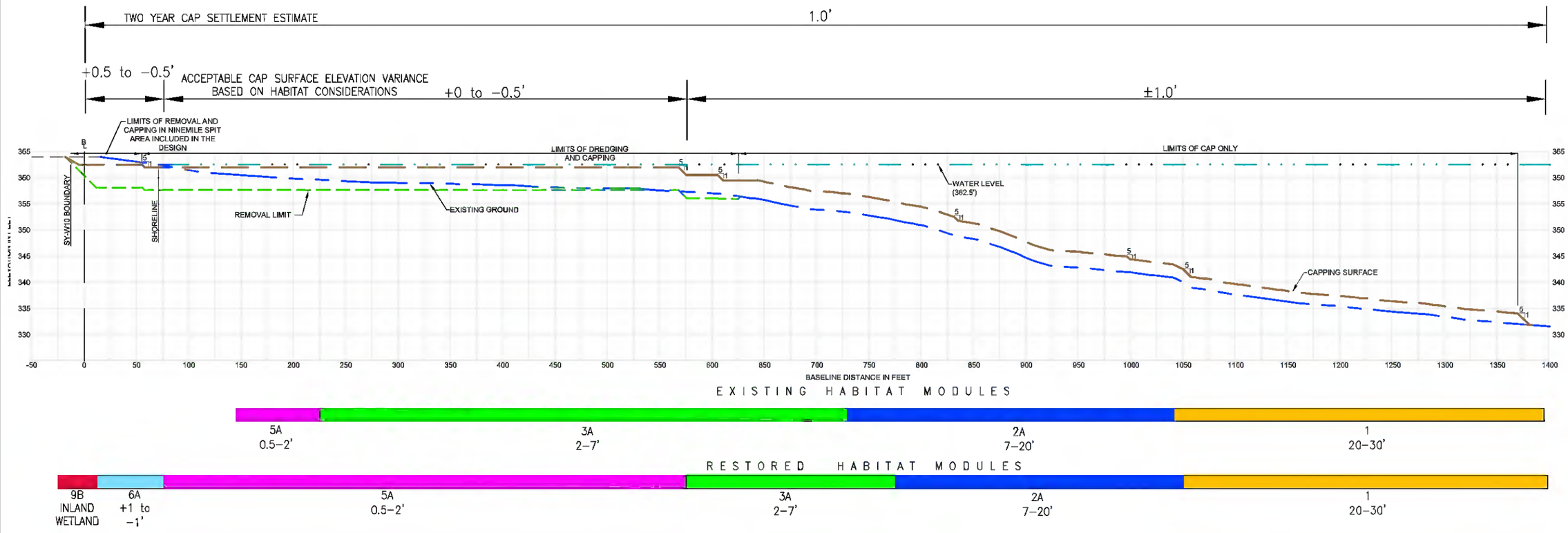

REMEDIATION AREA A – SECTION RAA–1

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.8

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA A (SMU 4)
SECTION RAA–1

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FILE NAME: P:\HONEYWELL –SYR\444284 – HABITAT AND CPP II\10 TECHNICAL CATEGORIES\10.1 CAD\GRAPHICS\FINAL DESIGN SECTIONS FROM ANCHOR\JR–HABITAT_FINAL_DESIGN_REPORT_ XSEC.DWG
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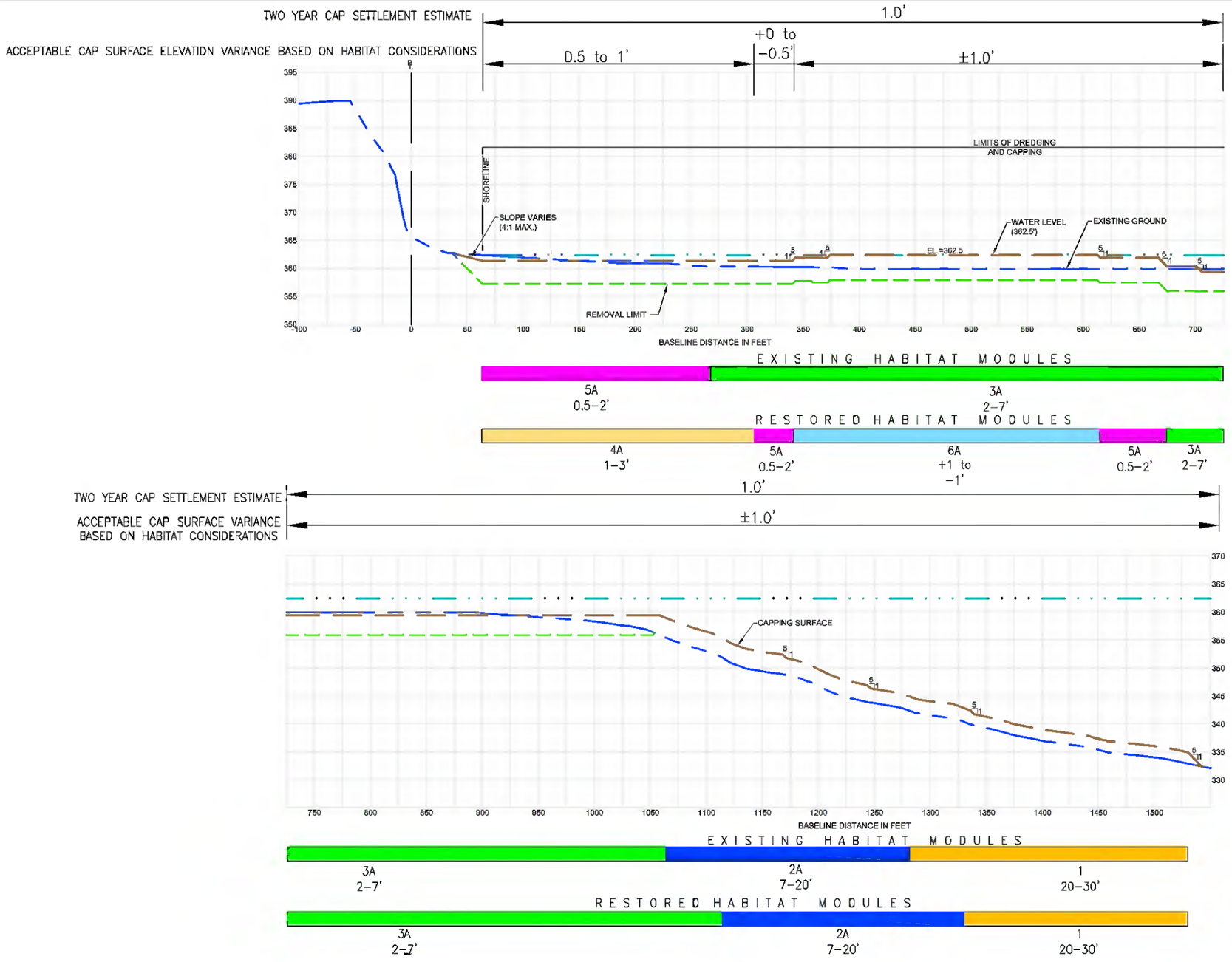

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

REMEDIATION AREA A – SECTION RAA–2

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.9

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA A (SMU 4)
SECTION RAA–2

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FILE NAME: P:\HONEYWELL –SYR\444284 – HABITAT AND CPP II\1D TECHNICAL CATEGORIES\10.1 CAD\GRAPHICS\FINAL DESIGN SECTIONS FROM ANCHOR\JR–HABITAT_FINAL_DESIGN_REPORT_ XSEC.DWG
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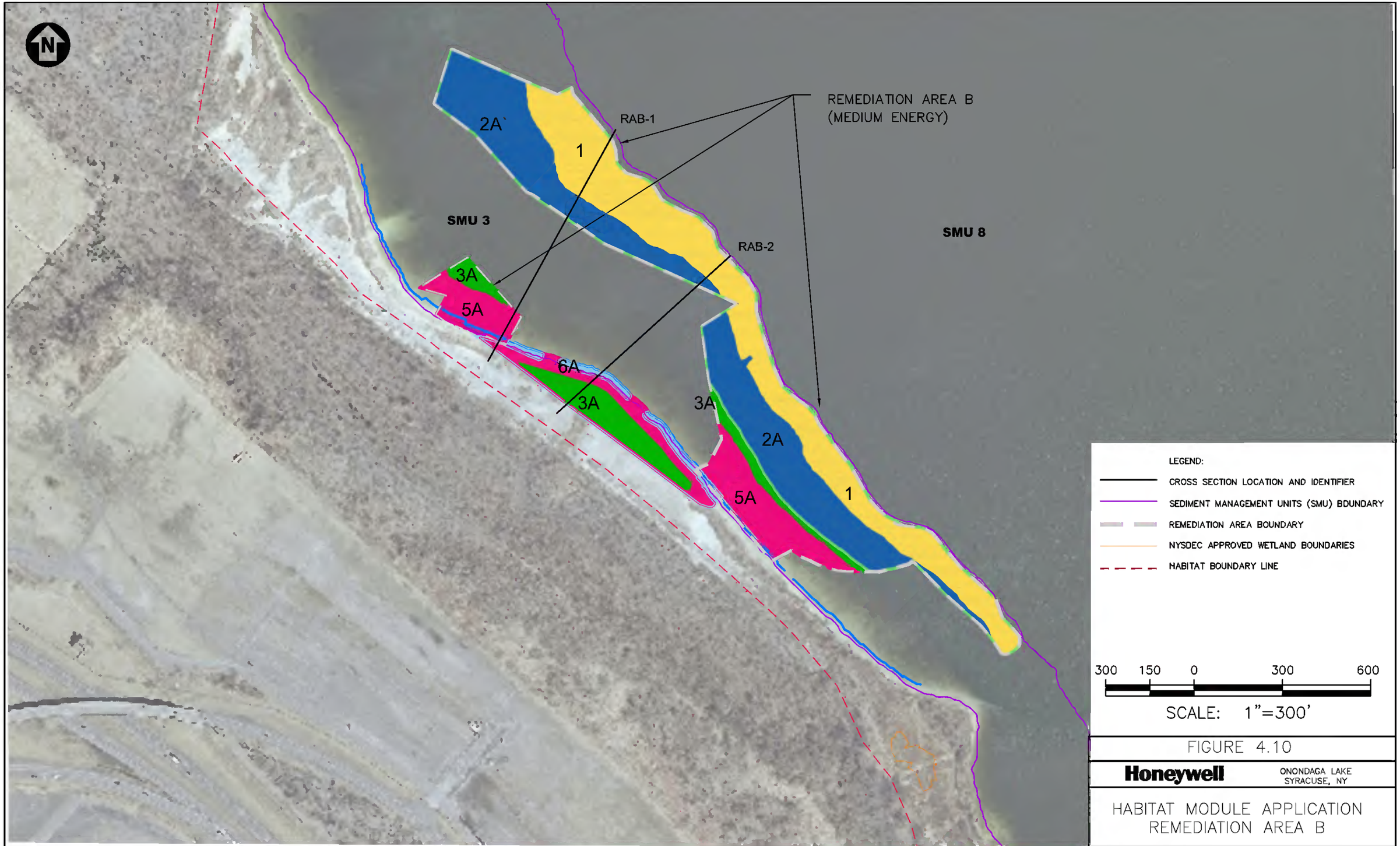

FIGURE 4.10

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

HABITAT MODULE APPLICATION
REMEDIATION AREA B

PARSONS
301 PLAINFIELD ROAD • SUITE 350 • SYRACUSE, NY 13212 • 315/451-9580
OFFICES IN PRINCIPAL CITIES

FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HB-SK003.DWG
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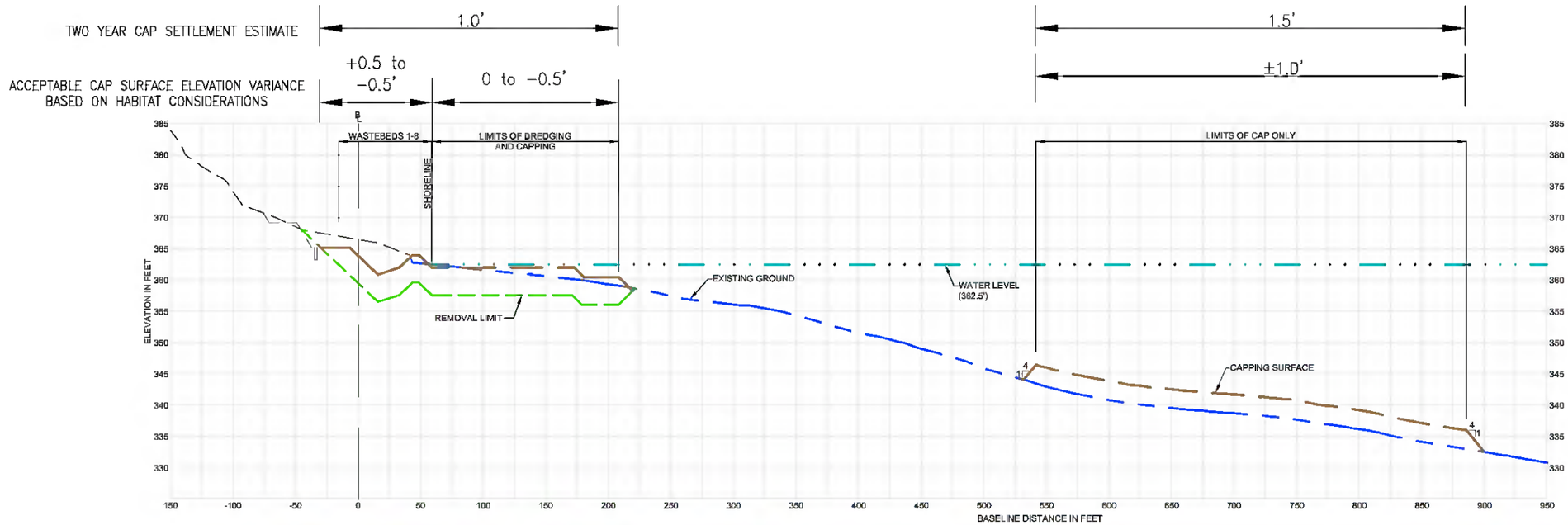

REMEDIATION AREA B – SECTION RAB–1

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
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4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.11

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA B (SMU 3)
SECTION RAB–1

PARSONS
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OFFICES IN PRINCIPAL CITIES

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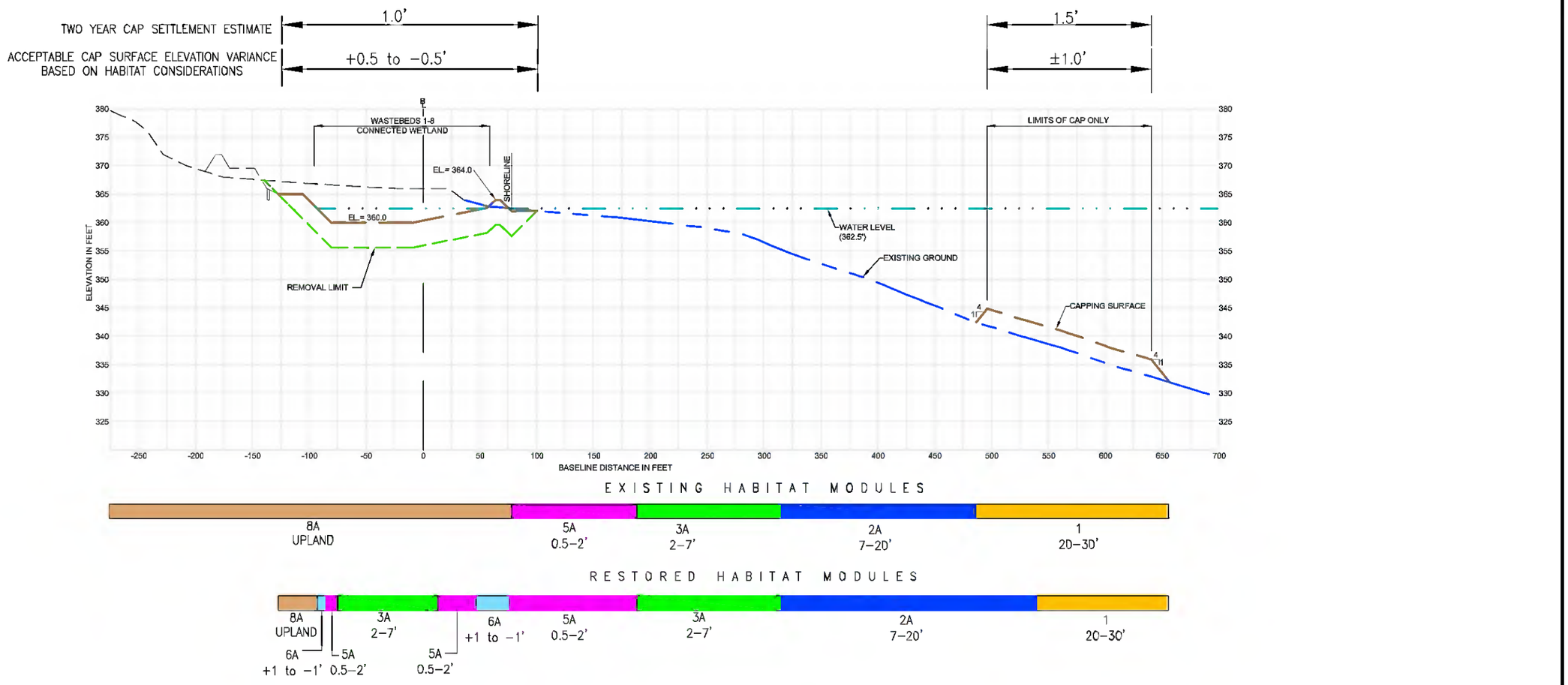

REMEDIATION AREA B – SECTION RAB–2

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
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LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.12

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA B (SMU 3)
SECTION RAB–2

PARSONS
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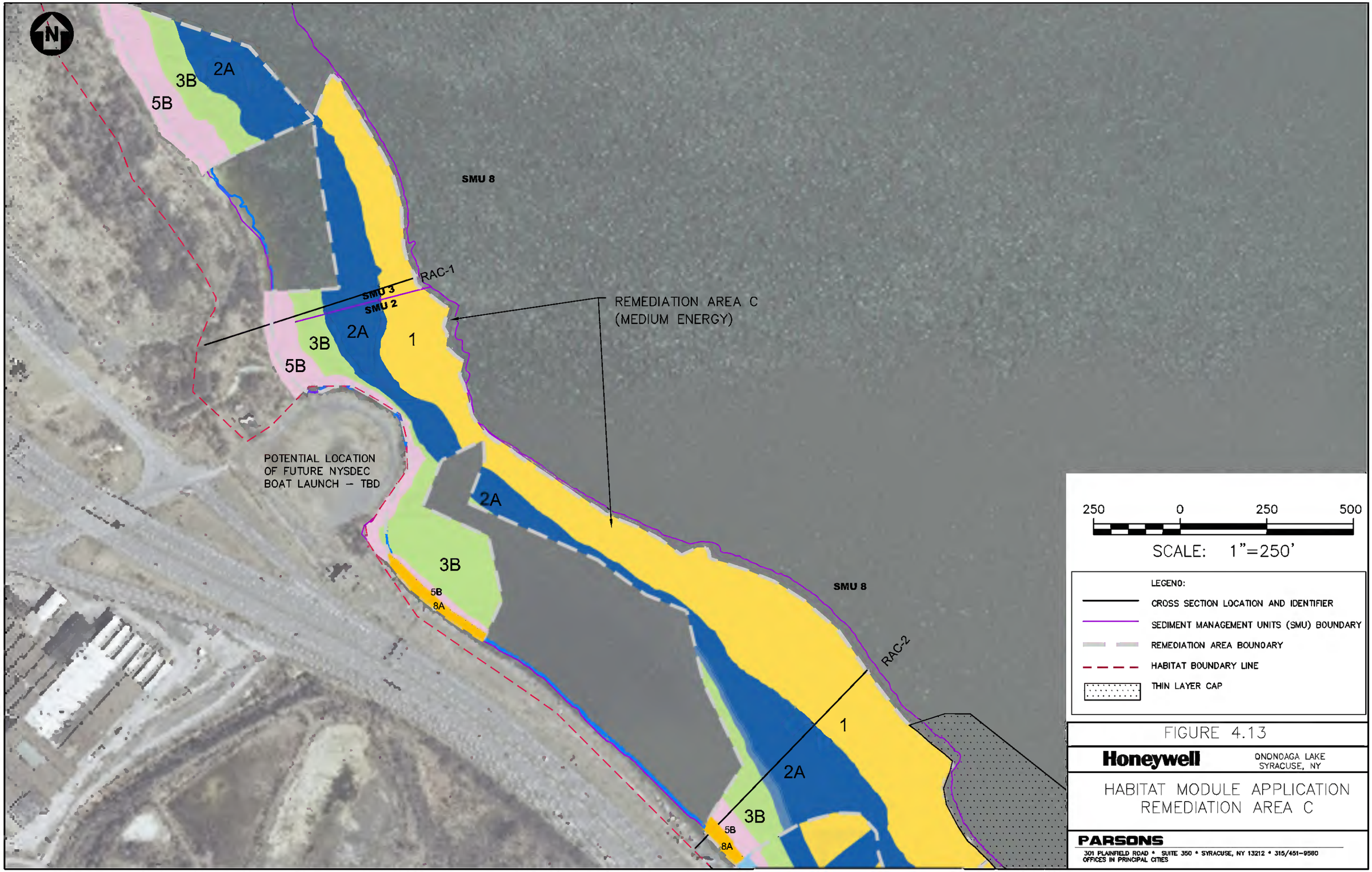

FIGURE 4.13

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

HABITAT MODULE APPLICATION
REMEDIATION AREA C

PARSONS
301 PLAINFIELD ROAD • SUITE 350 • SYRACUSE, NY 13212 • 315/451-9560
OFFICES IN PRINCIPAL CITIES

FILE NAME: P:\NONEYWELL –SYR\446232 – CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT–DRAFT FINAL\446232–HB–SK003.DWG
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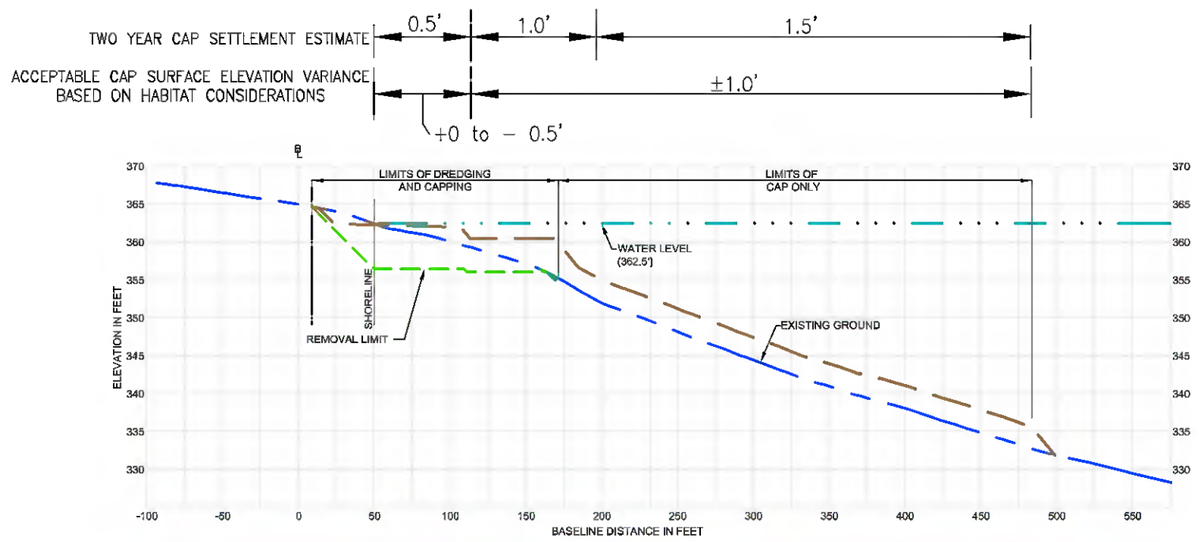

REMEDIATION AREA C – SECTION RAC–1

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
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LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.14

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA C (SMU 2)
SECTION RAC–1

PARSONS
310 PLAINFIELD ROAD ■ SUITE 350 ■ SYRACUSE, NY 13212 ■ 315/451-9560
OFFICES IN PRINCIPAL CITIES

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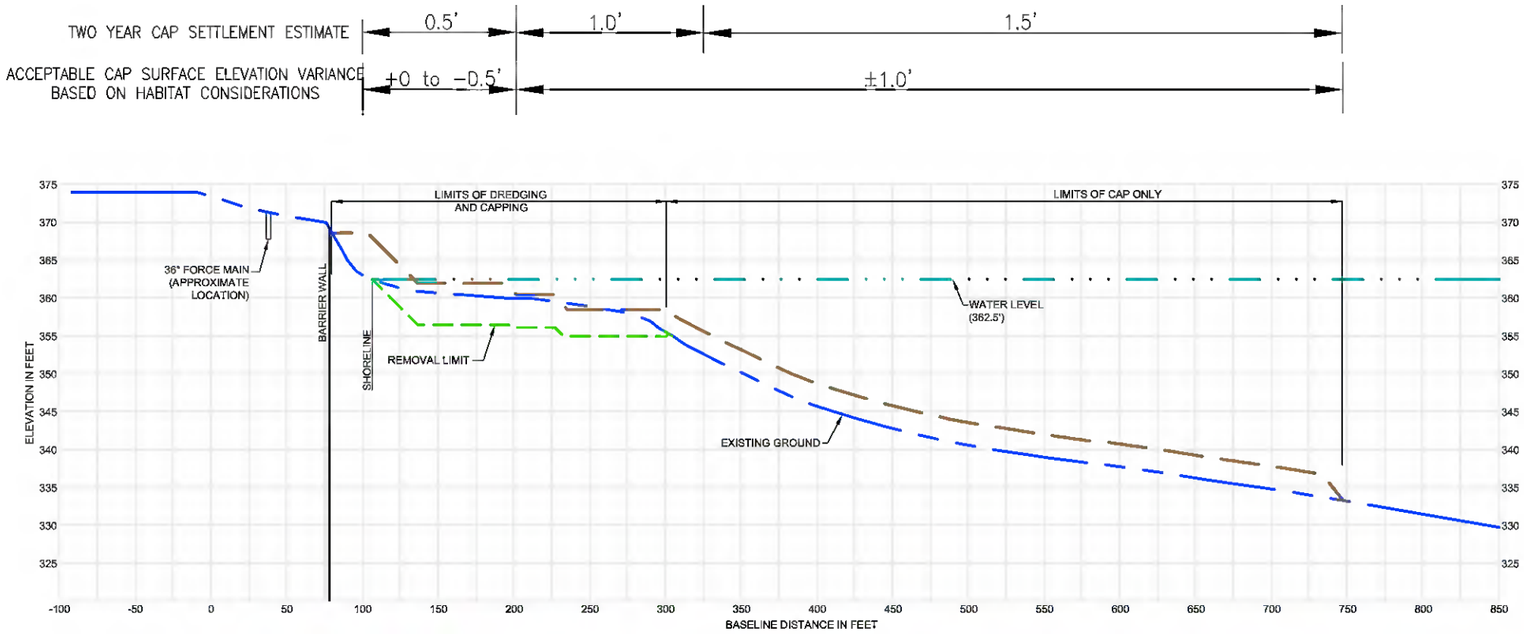

REMEDIATION AREA C – SECTION RAC-2

Vertical: 1"=20'-0"
Horizontal: 1"-100'-0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.15

Honeywell

CONCEPTUAL CROSS SECTION
REMEDIATION AREA C (SMU 2)
SECTION RAC-2

PARSONS
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PLOT DATE: 8/19/2011 5:04 PM PLOTTED BY: NEUMANN, JEREMY

SMU 8

REMEDIATION AREA D ADDENDUM

REMEDIATION AREA D (MEDIUM ENERGY)

SMU 8

RAC-1

RAD-1

RAD-2

RAD-3

RAD-4

RAE-1

RAE-2

SMU 2

SMU 1

SMU 7

SMU 1

SMU 6

SMU 7

2A

1

5A

2A

3B

9B

6A

3B

CURRENT SHORELINE

HARBOR BROOK CHANNEL

LEGEND:

- CROSS SECTION LOCATION AND IDENTIFIER
- SEDIMENT MANAGEMENT UNITS (SMU) BOUNDARY
- REMEDIATION AREA BOUNDARY
- NYSDEC APPROVED WETLAND BOUNDARIES
- APPROXIMATE HB CHANNEL ALIGNMENT
- WB-B/HB IRM BARRIER WALL
- EXTENT OF ILWD IN LITTORAL ZONE
- HABITAT BOUNDARY LINE
- THIN LAYER CAP
- HOT SPOT LOCATIONS

400 200 0 400 800

SCALE: 1"=400'

FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HB-SK0D3.DWG
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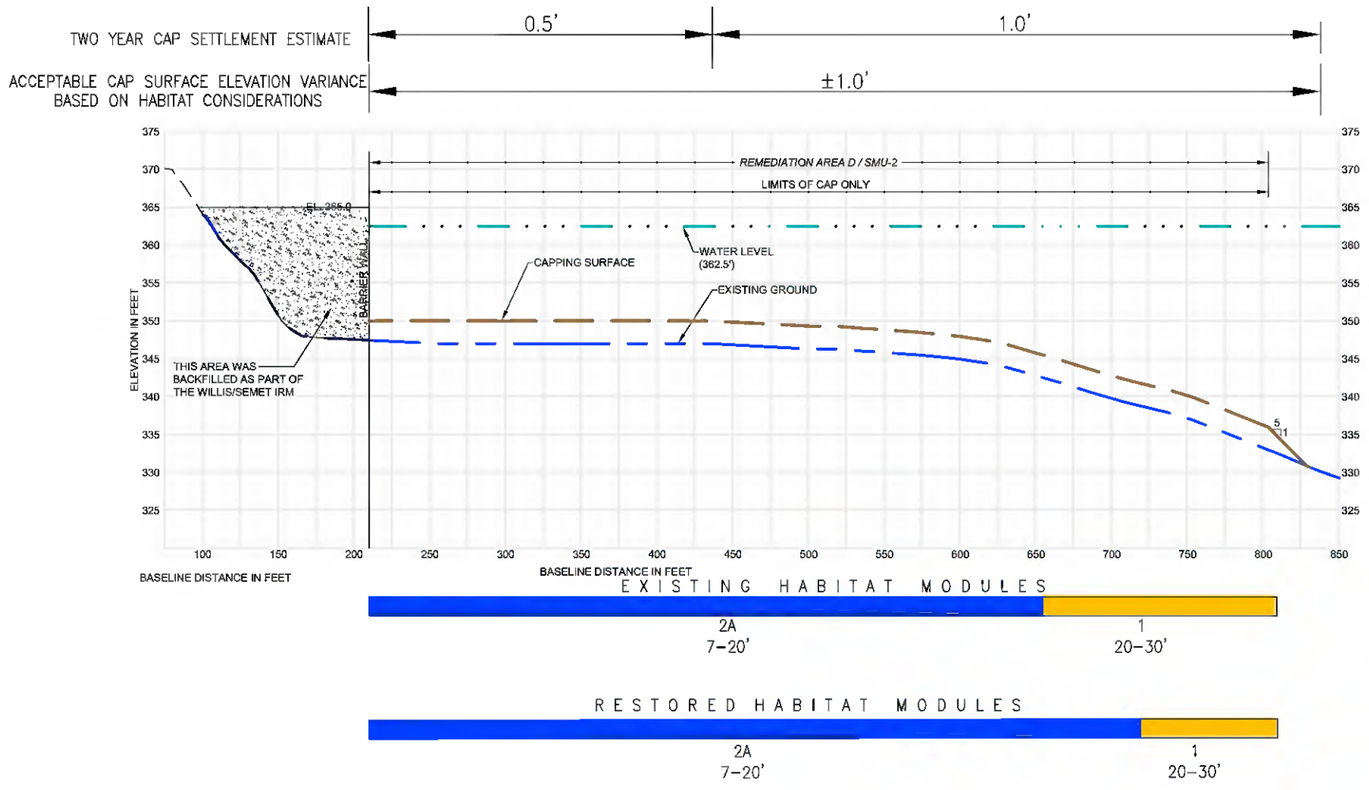
FIGURE 4.16

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

HABITAT MODULE APPLICATION
REMEDIATION AREA D &
OUTBOARD AREA

PARSONS
301 PLAINFIELD ROAD • SUITE 350 • SYRACUSE, NY 13212 • 315/451-9560
OFFICES IN PRINCIPAL CITIES



REMEDIATION AREA D - SECTION RAD-1

Vertical: 1"=20'-0"
Horizontal: 1"-100'-0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- CAP GRADE

FIGURE 4.17

Honeywell

CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD-1

PARSONS
310 PLAINFIELD ROAD ▪ SUITE 350 ▪ SYRACUSE, NY 13212 ▪ 315/451-9560
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FILE NAME: P:\HONEYWELL -SYR\444284 - HABITAT AND CPP II\10 TECHNICAL CATEGORIES\10.1 CAD\GRAPHICS\FINAL DESIGN SECTIONS FROM ANCHOR\JR-HABITAT_FINAL_DESIGN_REPORT_ XSEC.DWG
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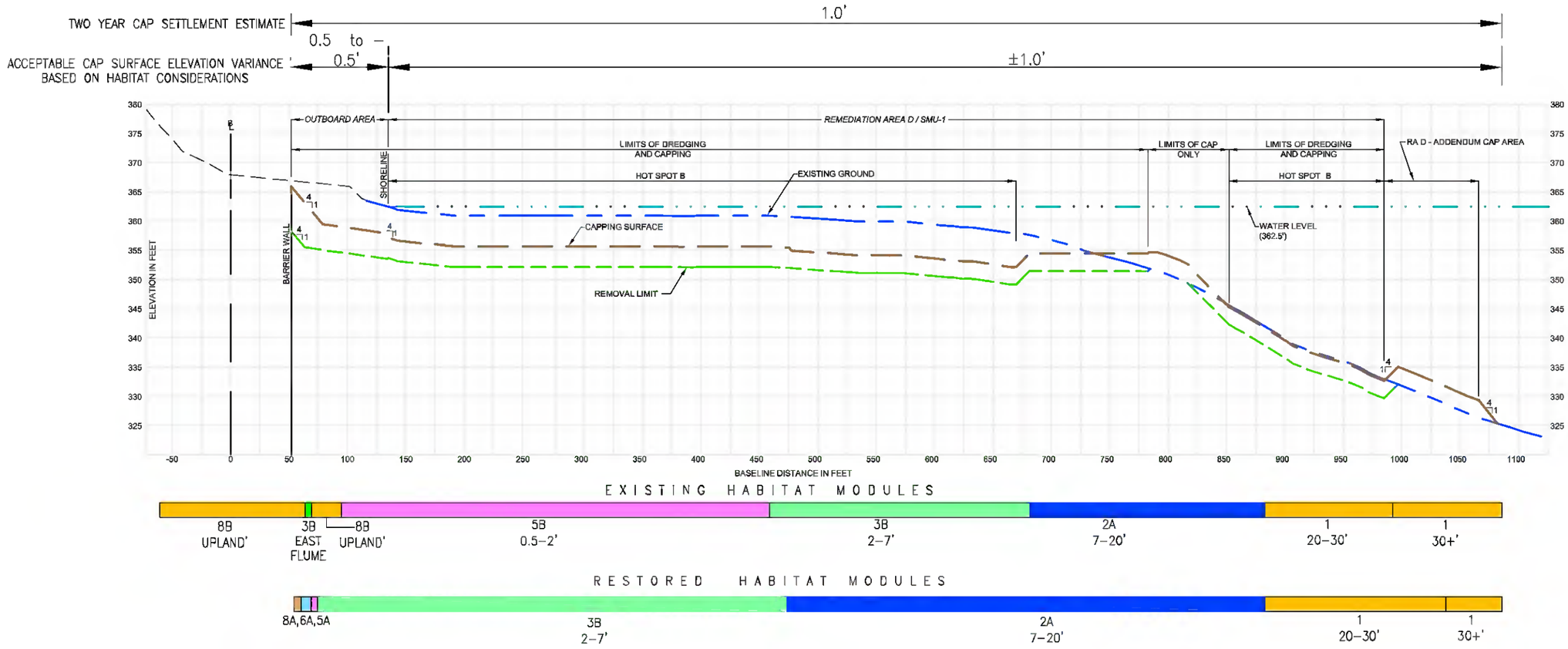

REMEDIATION AREA D – SECTION RAD–2

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.18

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD–2

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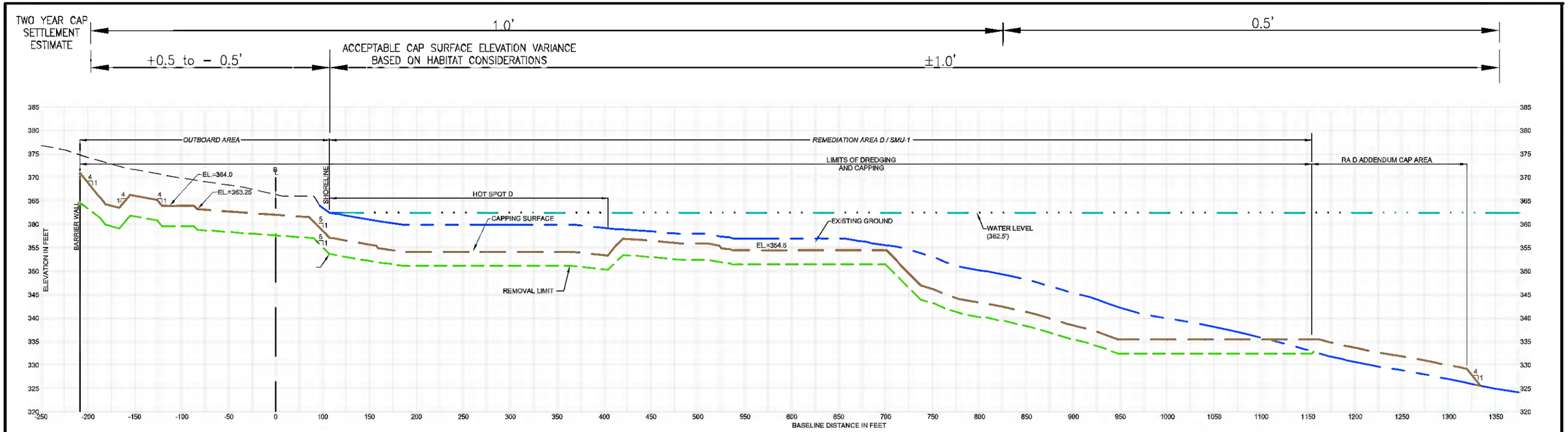


REMEDIATION AREA D – SECTION RAD–3

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

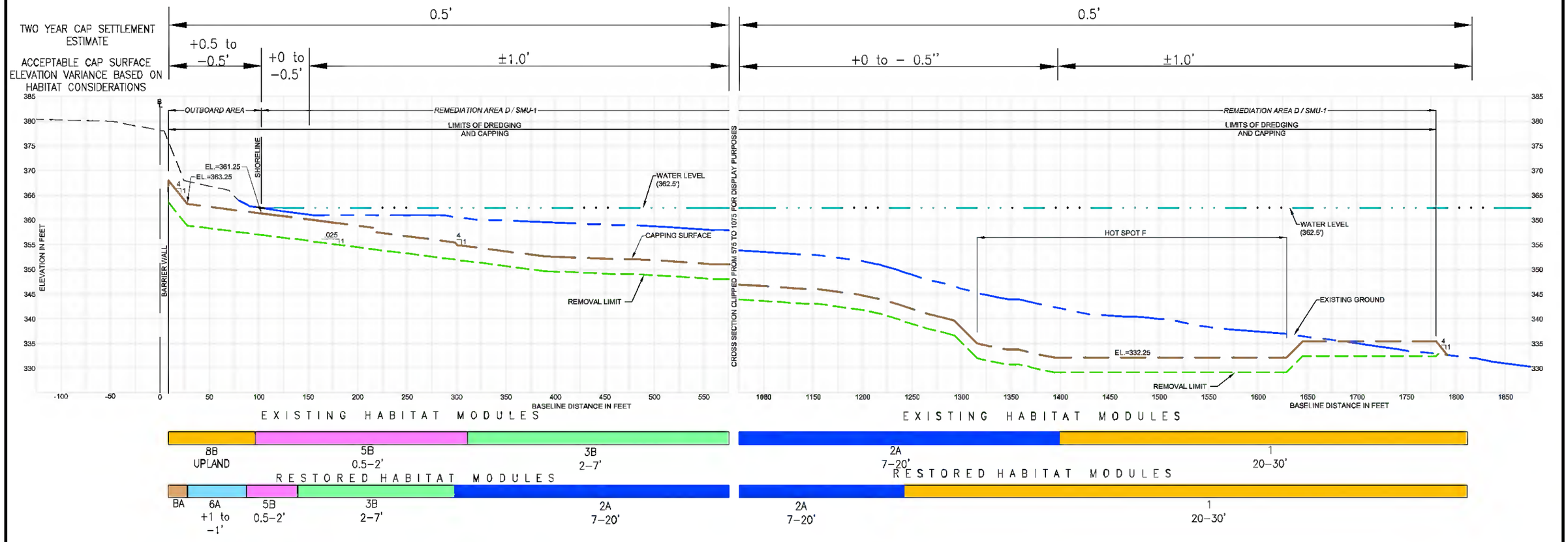
LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

FIGURE 4.19

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD–3

PARSONS
310 PLAINFIELD ROAD • SUITE 350 • SYRACUSE, NY 13212 • 315/451-9560
OFFICES IN PRINCIPAL CITIES

FILE NAME: P:\HONEYWELL –SYR\444284 – HABITAT AND CPP II\10 TECHNICAL CATEGORIES\10.1 CAD\GRAPHICS\FINAL DESIGN SECTIONS FROM ANCHOR\JR–HABITAT_FINAL_DESIGN_REPORT_ XSEC.DWG
PLOT DATE: 8/24/2011 10:04 AM PLOTTED BY: RUSSO, JILL



**NOTE
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2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

REMEDIATION AREA D – SECTION RAD–4

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

FIGURE 4.20

Honeywell

CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD–4

PARSONS
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PLOT DATE: 8/24/2011 10:09 AM PLOTTED BY: RUSSO, JILL

N

REMEDIATION AREA E
(HIGH ENERGY)

RAE-1
RAE-2
RAE-3

SMU 5
SMU 6
SMU 7
SMU 8

1
2A
2B
3B
5B
6A
6B
9B

RAD-2
RAD-3
RAD-4

SYW-12

SWY-12 AREA STILL UNDER EVALUATION. POTENTIAL COMBINATION OF WETLANDS AND UPLANDS.

THREE ACTIVE CSX RAIL LINES ARE PRESENT IMMEDIATELY ADJACENT TO THE SHORELINE. GEOTECHNICAL ANALYSIS INDICATES THAT DREDGING WITHIN APPROXIMATELY 150 FT. OF THE SHORELINE COULD RESULT IN AN UNACCEPTABLE FACTOR OF SAFETY FOR THE SHORELINE AND RAIL LINE STABILITY. THEREFORE, DETAILED DREDGING AND CAPPING PRISMS HAVE NOT YET BEEN DEVELOPED FOR THE AREA WITHIN 150 FT. FROM SHORELINE ALONG THIS PORTION OF REMEDIATION AREA E.

HARBOR BROOK CHANNEL

LEGEND:

- CROSS SECTION LOCATION AND IDENTIFIER
- SEDIMENT MANAGEMENT UNITS (SMU) BOUNDARY
- REMEDIATION AREA BOUNDARY
- NYSDEC APPROVED WETLAND BOUNDARIES
- APPROXIMATE HB CHANNEL ALIGNMENT
- WB-B/HB IRM BARRIER WALL
- EXTENT OF ILWD IN LITTORAL ZONE
- HABITAT BOUNDARY LINE
- THIN LAYER CAP

600 300 0 600 1200

SCALE: 1"=600'

FIGURE 4.21

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

HABITAT MODULE APPLICATION
REMEDIATION AREA E

PARSONS
301 PLAINFIELD ROAD • SUITE 350 • SYRACUSE, NY 13212 • 315/451-9580
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FILE NAME: F:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\446232-HB-SK003.DWG
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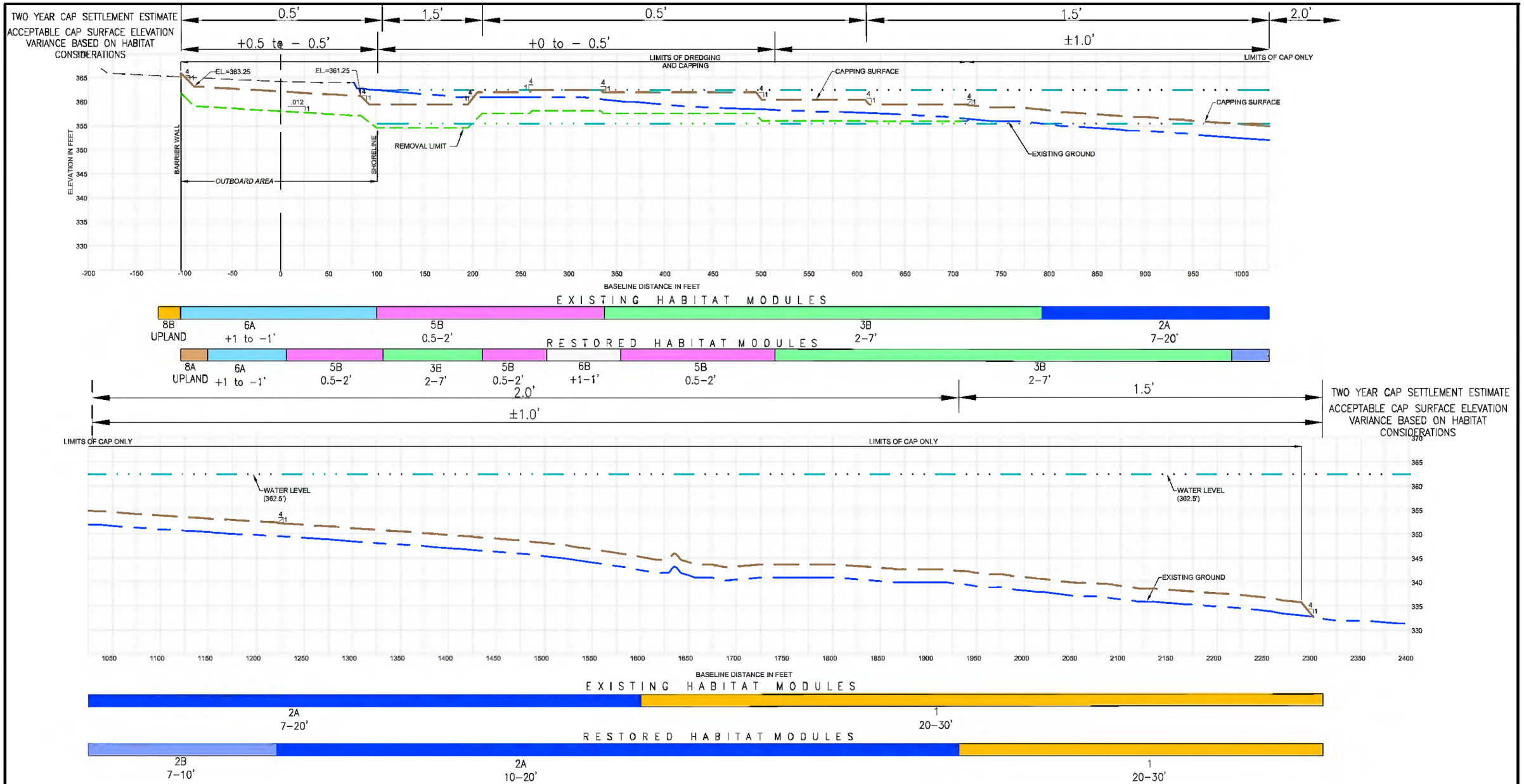

REMEDIATION AREA E − SECTION RAE−1

Vertical: 1"=20'−0"
Horizontal: 1"−100'−0"

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
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PLOT DATE: 8/24/2011 10:18 AM PLOTTED BY: RUSSO, JILL

FIGURE 4.22

Honeywell

CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 7)
SECTION RAE−1

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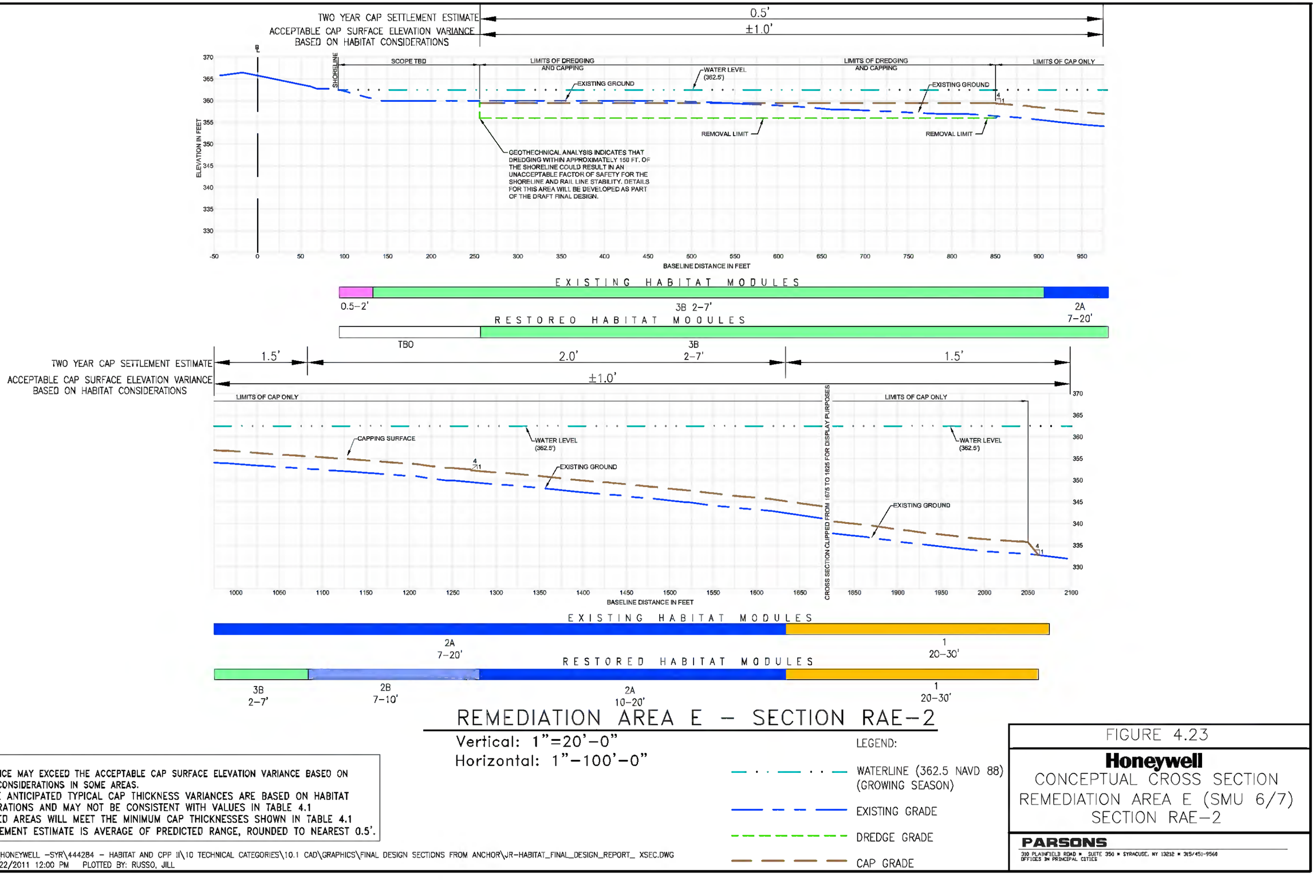

REMEDIATION AREA E – SECTION RAE–2

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

FILE NAME: P:\HONEYWELL –SYR\444284 – HABITAT AND CPP II\10 TECHNICAL CATEGORIES\10.1 CAD\GRAPHICS\FINAL DESIGN SECTIONS FROM ANCHOR\JR–HABITAT_FINAL_DESIGN_REPORT_ XSEC.DWG
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FIGURE 4.23

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CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 6/7)
SECTION RAE–2

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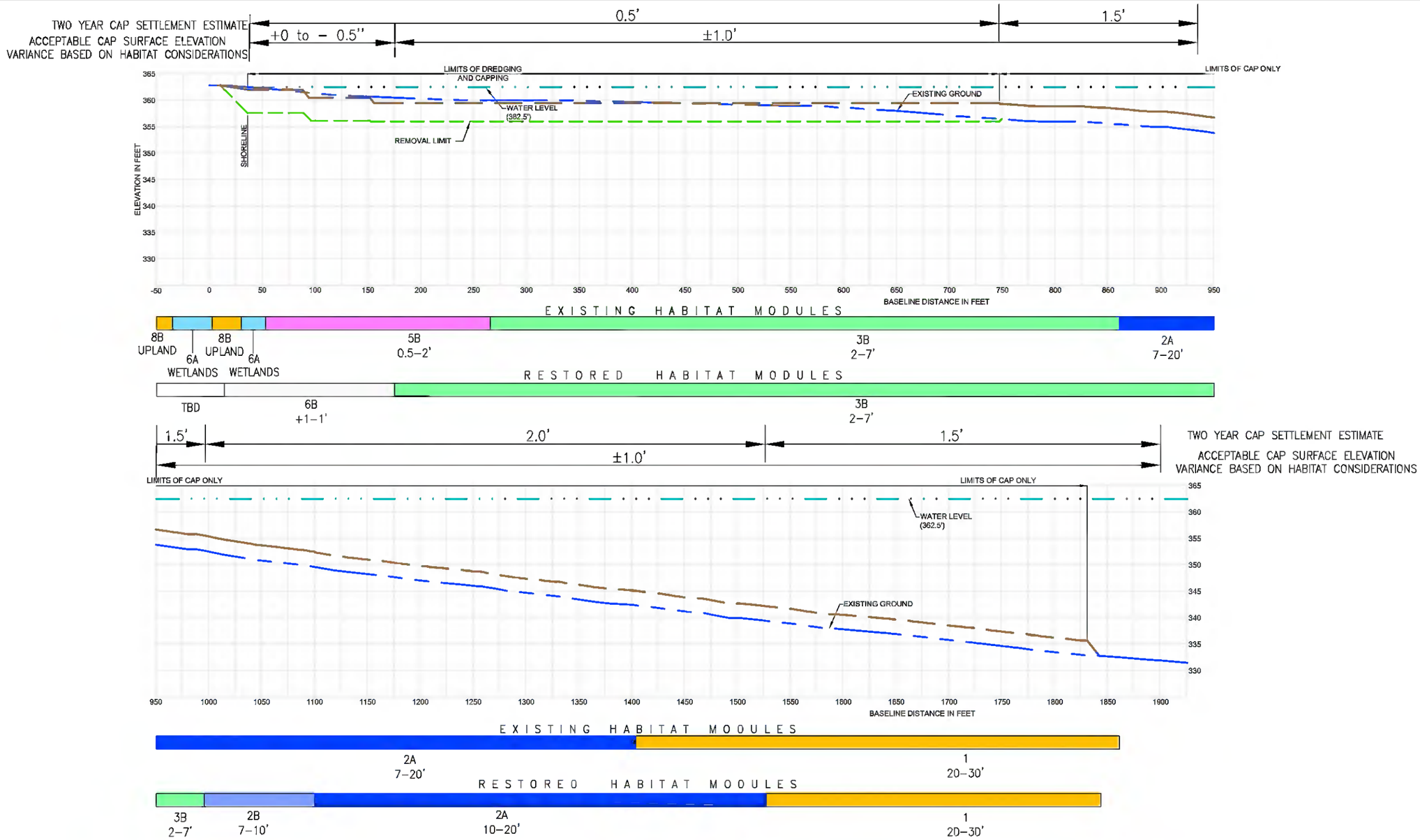

REMEDIATION AREA E – SECTION RAE–3

Vertical: 1"=20'–0"
Horizontal: 1"–100'–0"

LEGEND:
- WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- EXISTING GRADE
- DREDGE GRADE
- CAP GRADE

**NOTE
1. VARIANCE MAY EXCEED THE ACCEPTABLE CAP SURFACE ELEVATION VARIANCE BASED ON HABITAT CONSIDERATIONS IN SOME AREAS.
2. THESE ANTICIPATED TYPICAL CAP THICKNESS VARIANCES ARE BASED ON HABITAT CONSIDERATIONS AND MAY NOT BE CONSISTENT WITH VALUES IN TABLE 4.1
3. CAPPED AREAS WILL MEET THE MINIMUM CAP THICKNESSES SHOWN IN TABLE 4.1
4. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

FIGURE 4.24

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 6/7)
SECTION RAE–3

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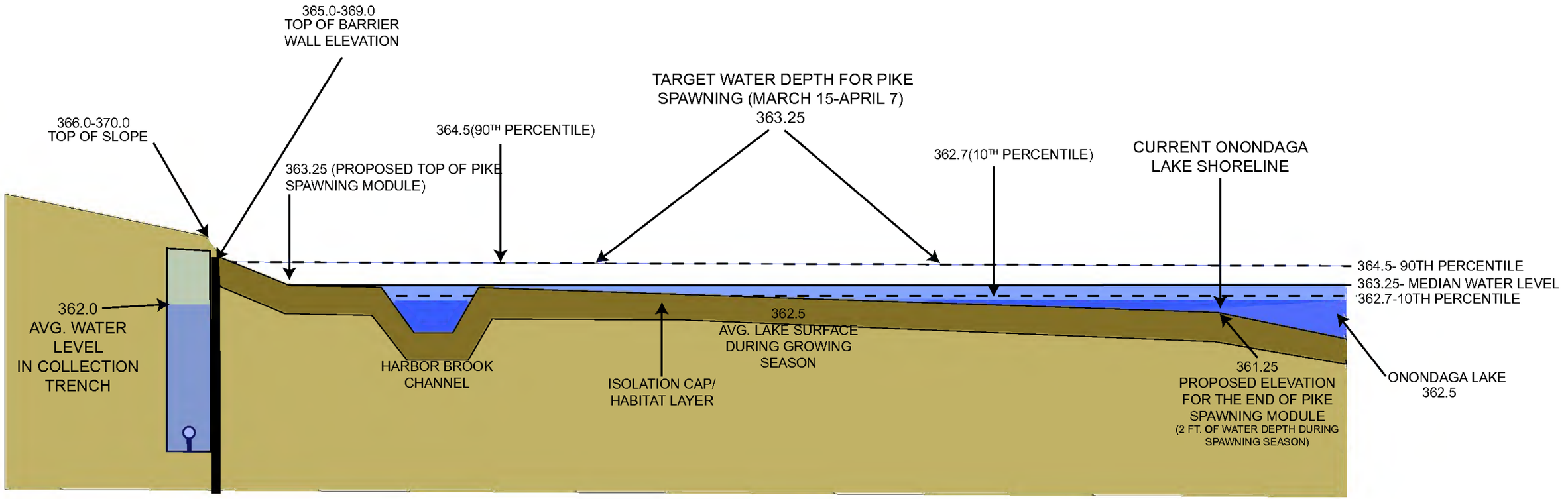

MEDIAN LAKE LEVEL DURING PIKE SPAWNING SEASON

MEDIAN LAKE LEVEL DURING GROWING SEASON

FIGURE 4.25

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Onondaga Lake
Syracuse, New York

Pike Spawning Area Section
Wastebed B/Harbor Brook
Outboard Area

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FIGURE 4.26

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Onondaga Lake
Syracuse, New York

Truck Transport Routes

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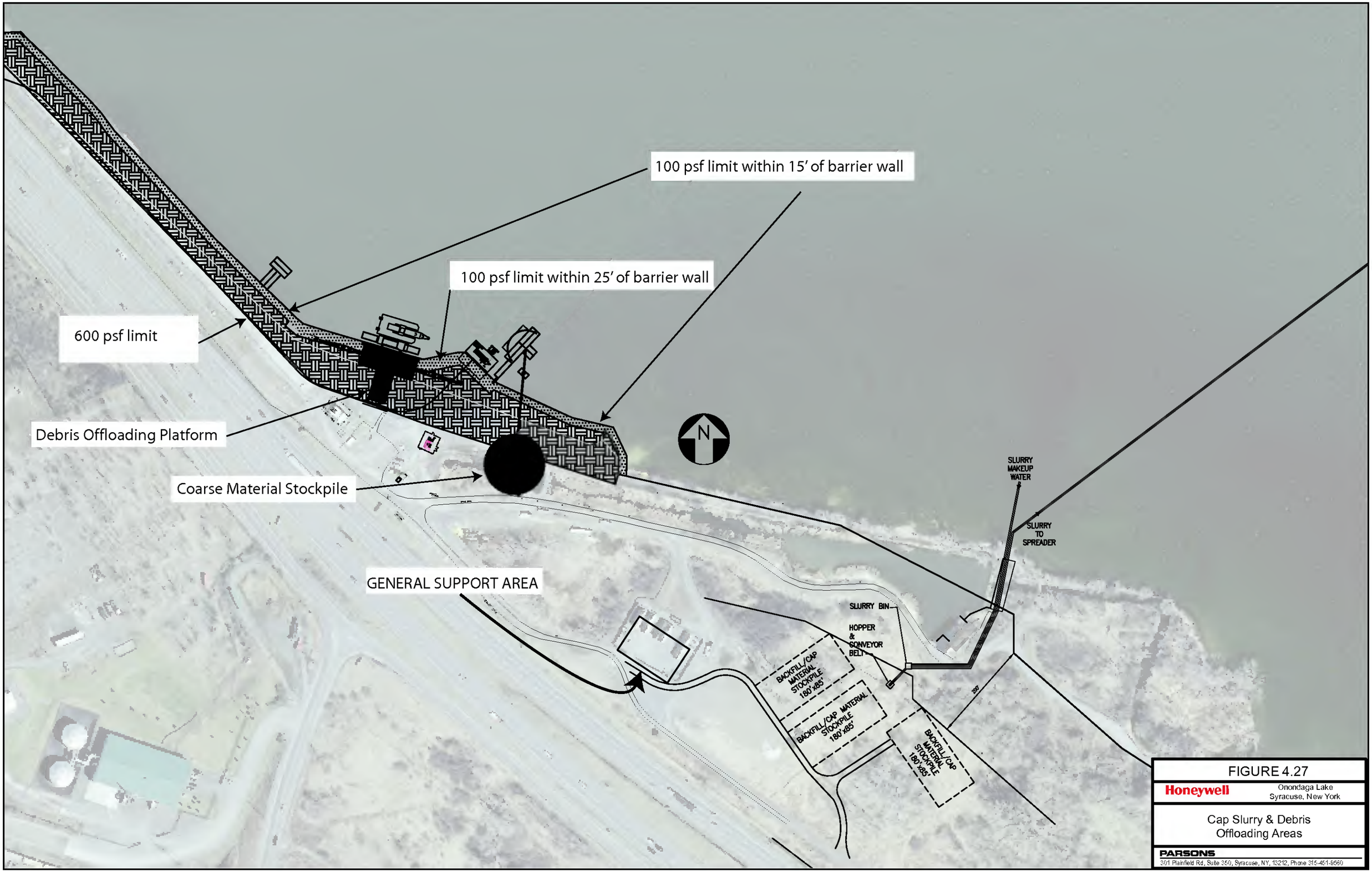

FIGURE 4.27

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Onondaga Lake
Syracuse, New York

Cap Slurry & Debris Offloading Areas

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