

LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline —●●●—

TOTALS FOR AREA 1

Surface Area to be Dredge = 1.22 Acres
 Cubic Yards to be Dredge = 7,300 CY



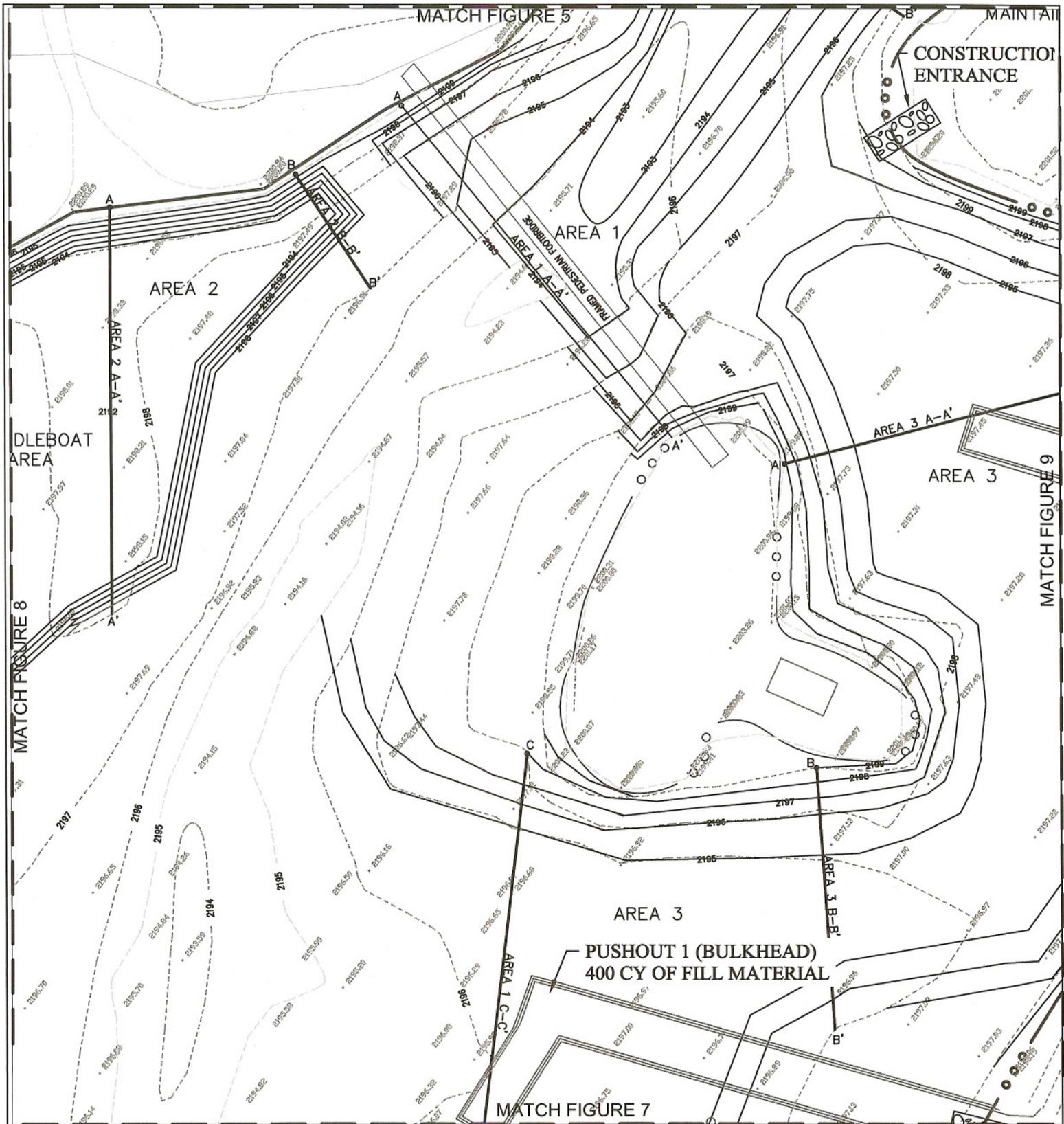
SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.



**REVISED Figure 5
 Dredging Location - Area 1
 Hungry Mother State Park
 Smyth County, Virginia**

Proposed Hungry Mother Lake Dredging

Applicant: VA Dept. of Conservation & Recreation
 Figure 5 of 31

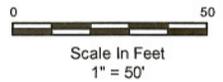


LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline — ○ ○ ○ —

TOTALS FOR AREA 2

Surface Area to be Dredge = 0.93 Acres
 Cubic Yards to be Dredge = 5,500 CY



SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.



REVISED Figure 6
Dredging Location - Area 1, 2 & 3
Hungry Mother State Park
Smyth County, Virginia

Proposed Hungry Mother Lake Dredging

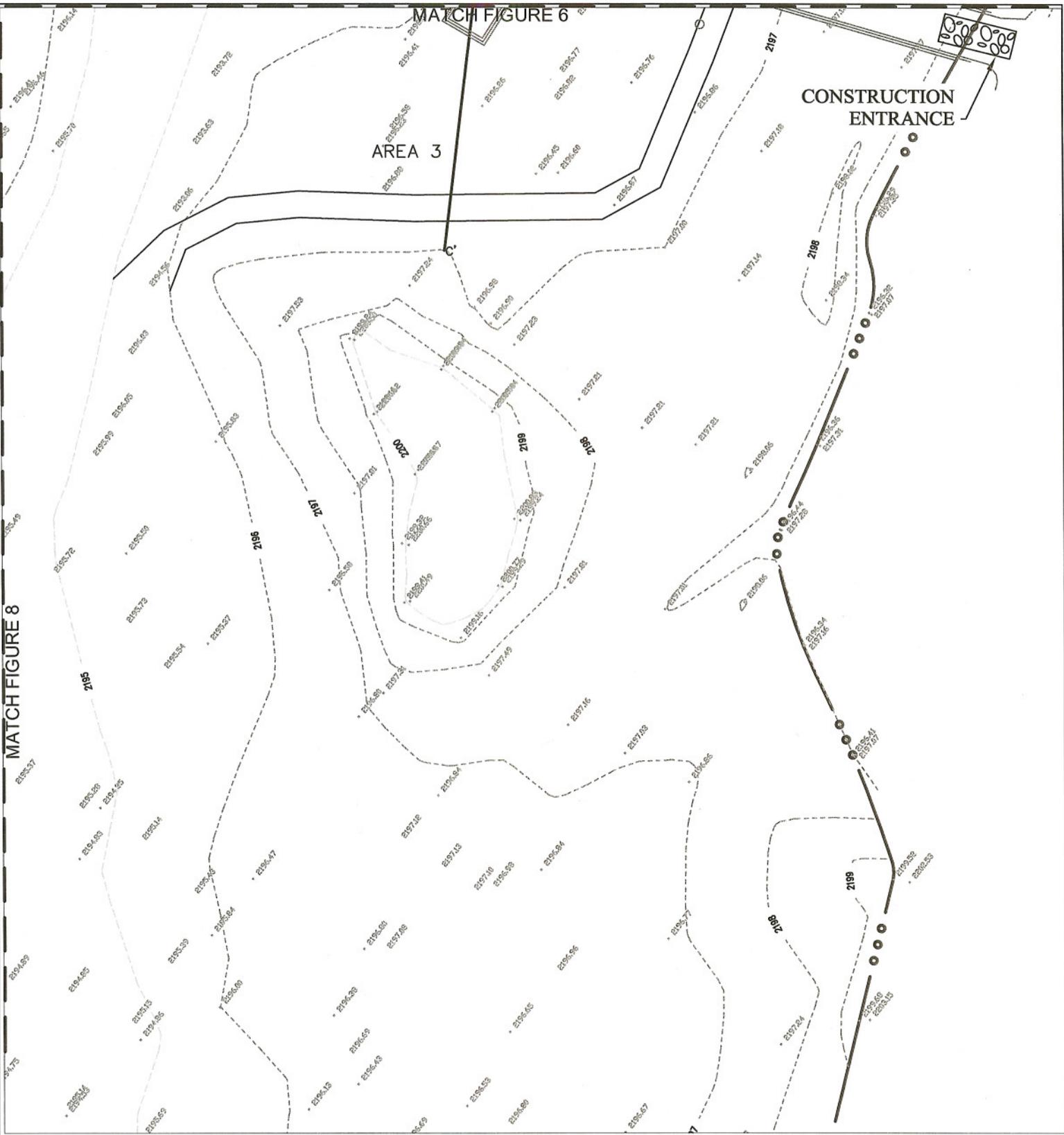
Applicant: VA Depart. of Conservation & Recreation
 Figure 6 of 31

MATCH FIGURE 6

CONSTRUCTION ENTRANCE

AREA 3

MATCH FIGURE 8



TOTALS FOR AREA 3

Surface Area to be Dredge = 2.25 Acres
 Cubic Yards to be Dredge = 5,700 CY

LEGEND

- Existing Contours
- Proposed Contours
- Lake Shoreline



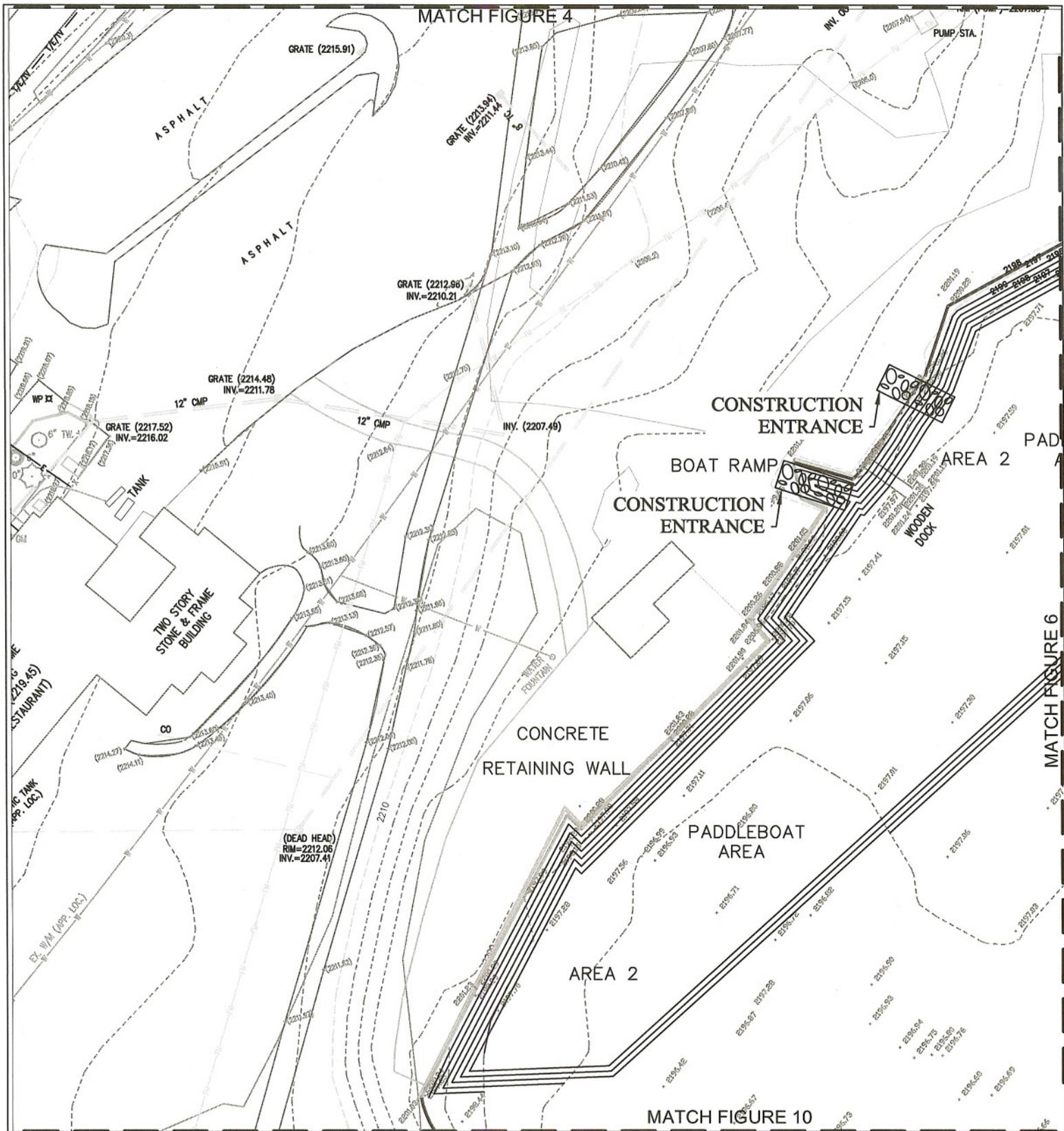
SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.



REVISED Figure 7
Dredging Location - Area 3
Hungry Mother State Park
Smyth County, Virginia

Proposed Hungry Mother Lake Dredging

Applicant: VA Dept. of Conservation & Recreation
 Figure 7 of 31

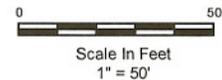


LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline — o o o —

TOTALS FOR AREA 2

Surface Area to be Dredge = 0.93 Acres
 Cubic Yards to be Dredge = 5,500 CY

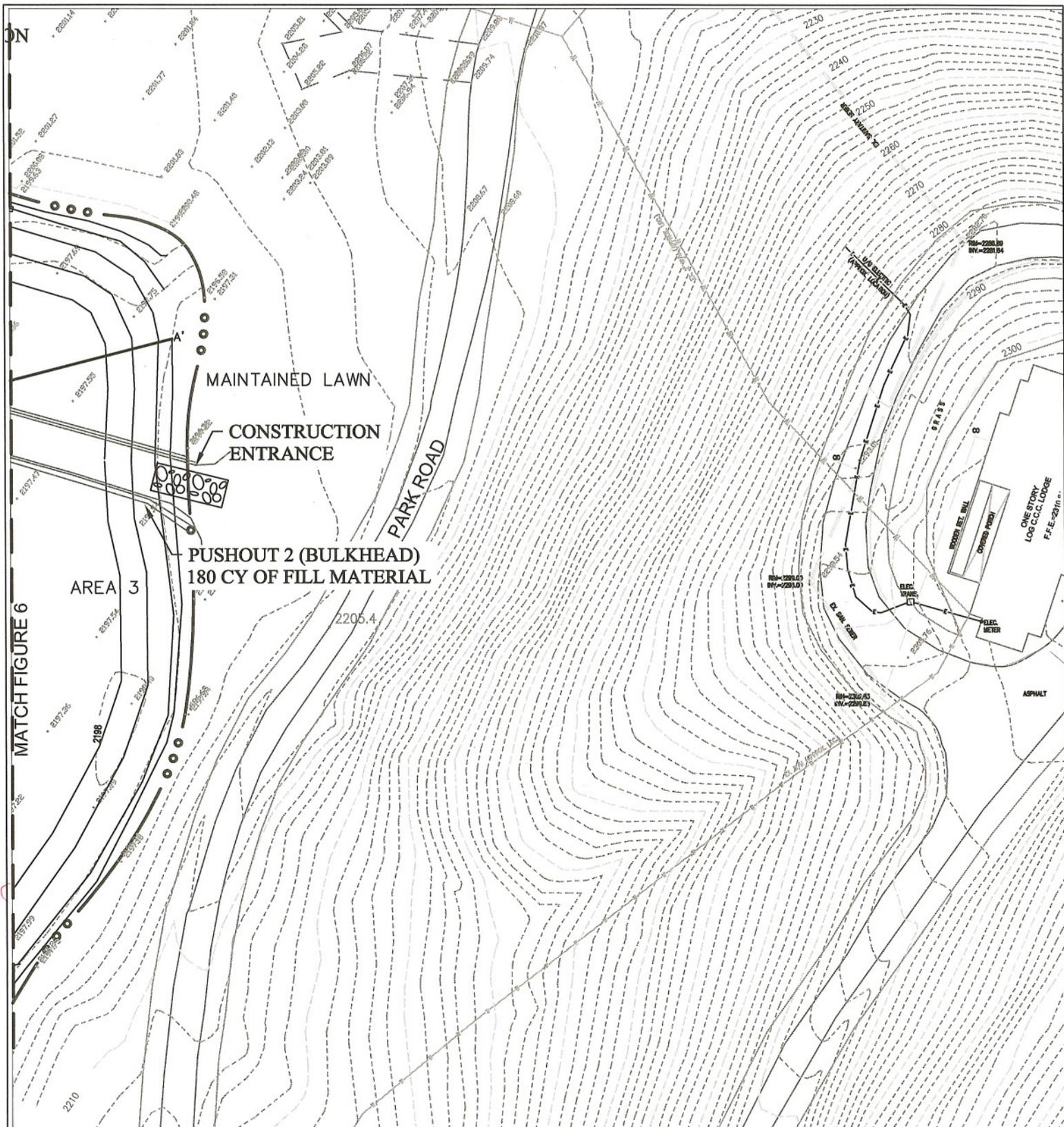


SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.

**REVISED Figure 8
 Dredging Location - Area 2 & 4
 Hungry Mother State Park
 Smyth County, Virginia**

Proposed Hungry Mother Lake Dredging

Applicant: VA Dept. of Conservation & Recreation
 Figure 8 of 31



LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline — ○ ○ ○ —

TOTALS FOR AREA 3

Surface Area to be Dredge = 2.25 Acres
 Cubic Yards to be Dredge = 5,700 CY

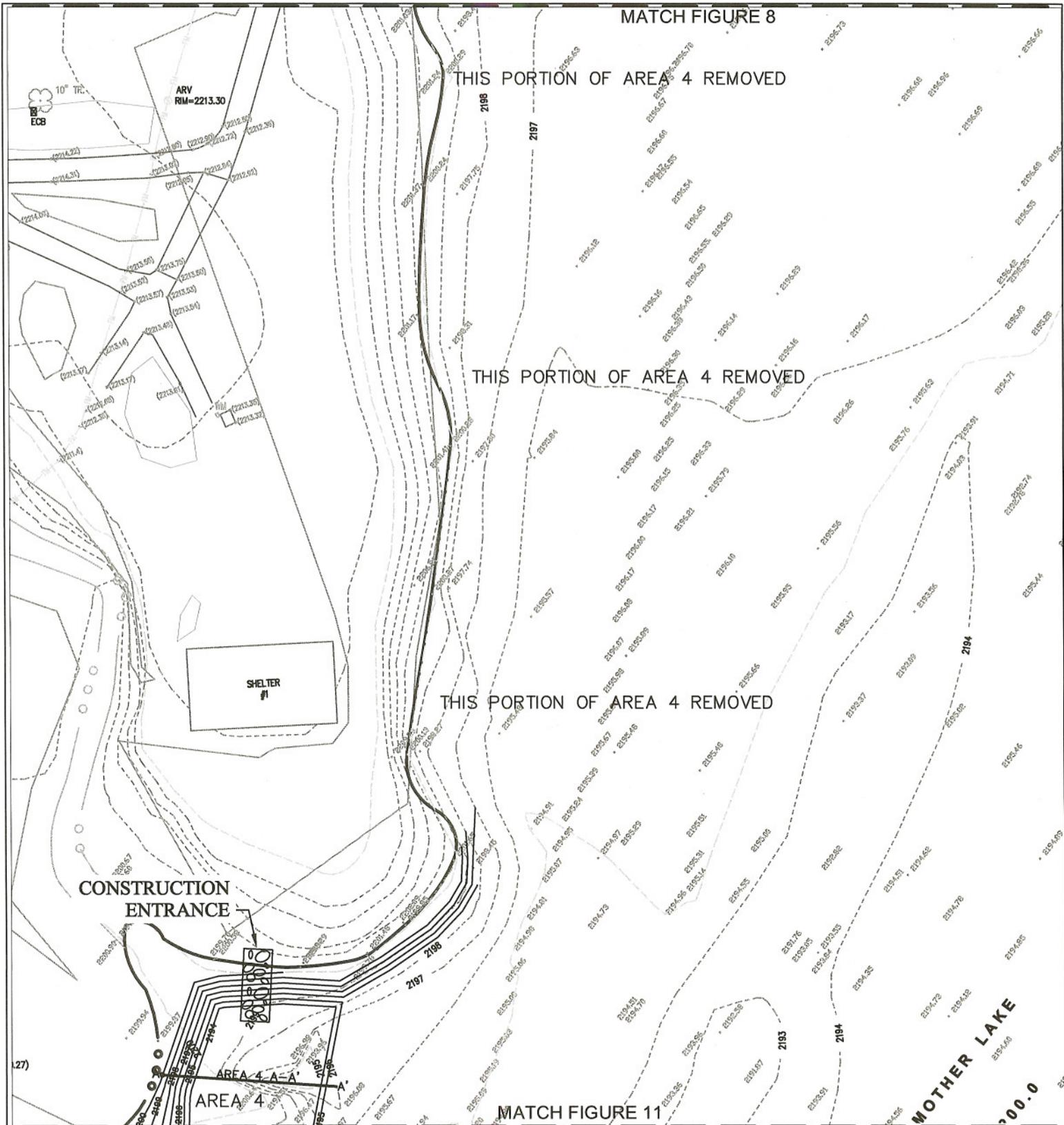


SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.

**REVISED Figure 9
 Dredging Location - Area 3
 Hungry Mother State Park
 Smyth County, Virginia**

Proposed Hungry Mother Lake Dredging

Applicant: VA Dept. of Conservation & Recreation
 Figure 9 of 31



LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline — o o o —

TOTALS FOR AREA 4

Surface Area to be Dredge = 0.19 Acres
 Cubic Yards to be Dredge = 1,100 CY

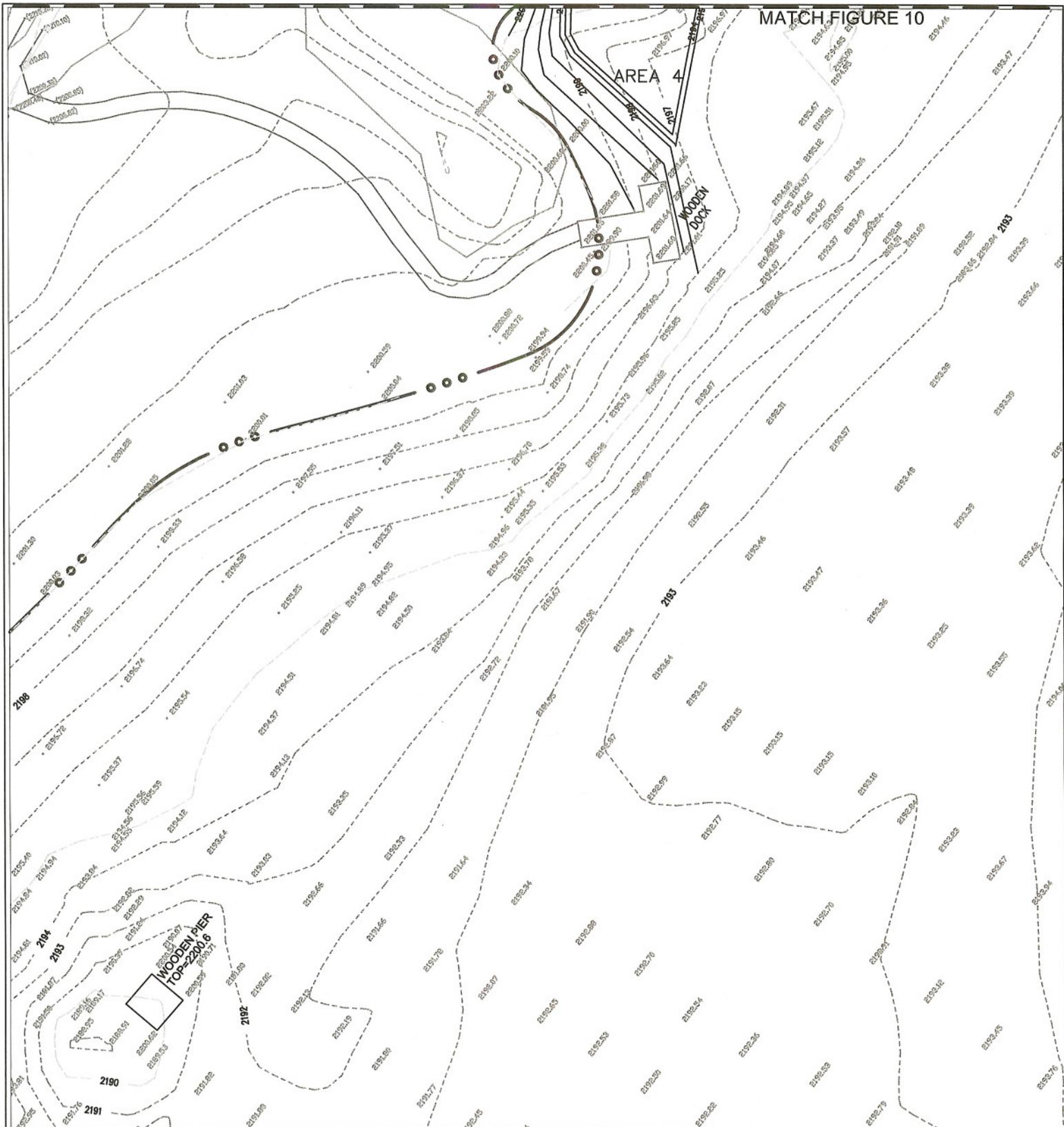


SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.

**REVISED Figure 10
 Dredging Location - Area 4
 Hungry Mother State Park
 Smyth County, Virginia**

Proposed Hungry Mother Lake Dredging

Applicant: VA Depart. of Conservation & Recreation
 Figure 10 of 31



MATCH FIGURE 10

AREA 4

WOODEN DOCK

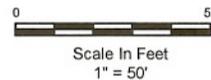
WOODEN PIER
TOP=220.6

LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline —●●●—

TOTALS FOR AREA 4

Surface Area to be Dredge = 0.19 Acres
Cubic Yards to be Dredge = 1,100 CY



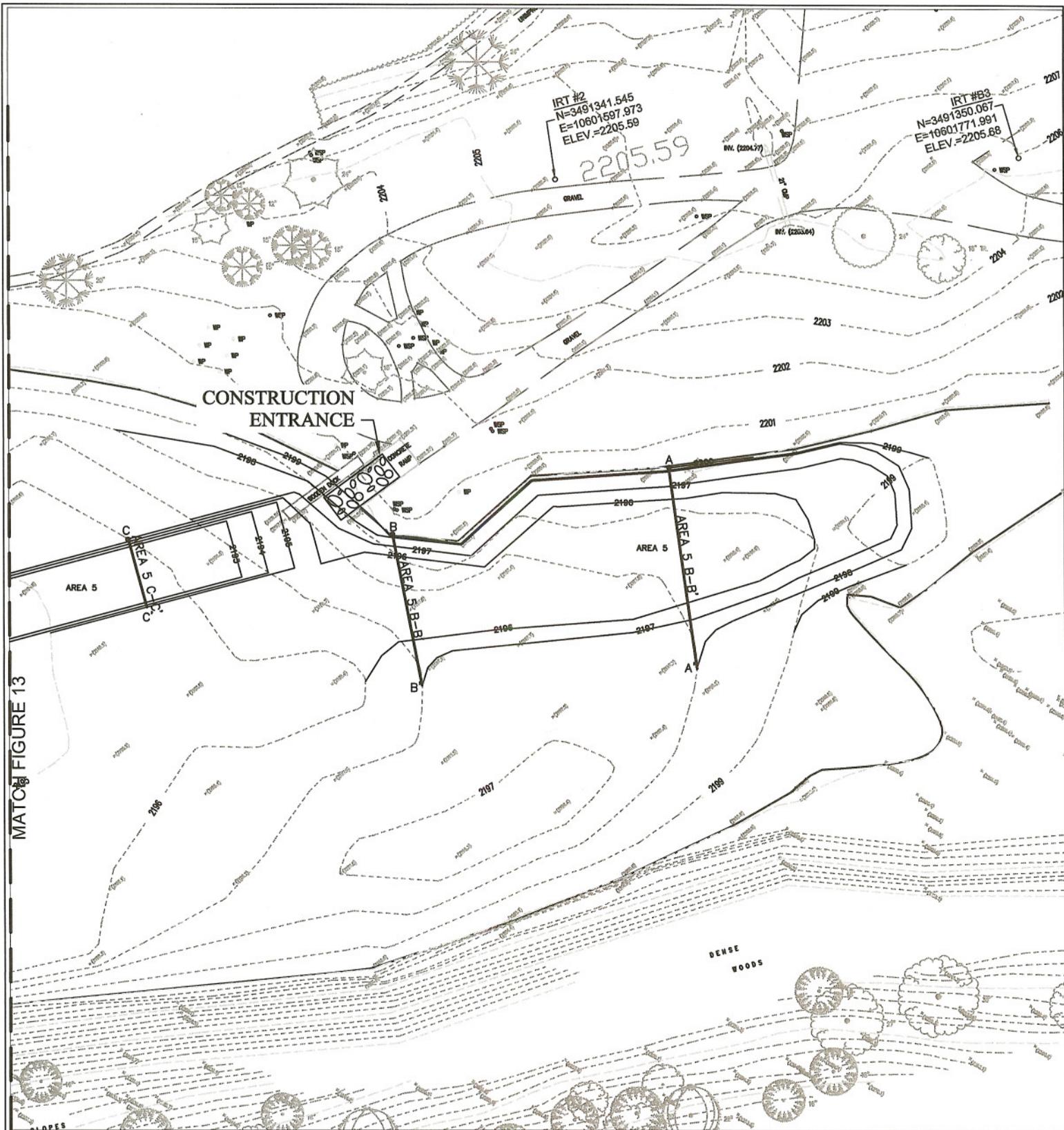
SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.



**REVISED Figure 11
Dredging Location - Area 4
Hungry Mother State Park
Smyth County, Virginia**

Proposed Hungry Mother Lake Dredging

Applicant: VA Dept. of Conservation & Recreation
Figure 11 of 31



MATCH FIGURE 13

LEGEND

- Existing Contours - - - - -
- Proposed Contours _____
- Lake Shoreline — ○ ○ ○ —

TOTALS FOR AREA 5

Surface Area to be Dredge = 0.8 Acres
Cubic Yards to be Dredge = 2,500 CY



Scale In Feet
1" = 50'

SOURCE: Drawn by Marsh & Legge, Clough Harbour, & EEE Consulting.



**REVISED Figure 12
Dredging Location - Area 5
Hungry Mother State Park
Smyth County, Virginia**

Proposed Hungry Mother Lake Dredging

Applicant: VA Depart. of Conservation & Recreation
Figure 12 of 31

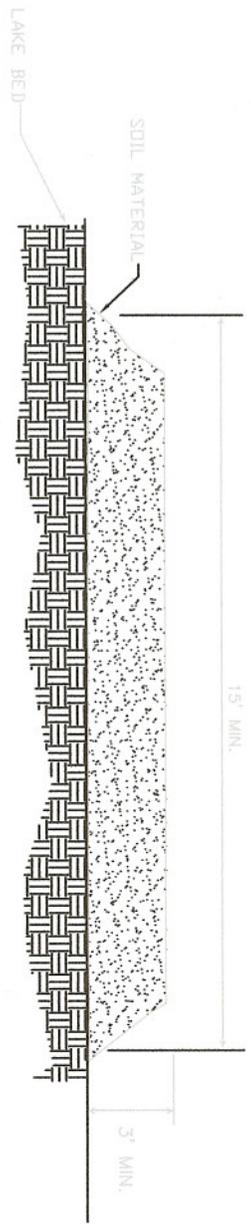
X

CONSTRUCTION ENTRANCE



TYPICAL SECTION

PUSH OUT

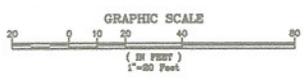


TYPICAL SECTION



SNIKE S205
 N=497760.089
 E=1060070.285
 ELEV.=2211.97

BENCHMARK
 RIM OF MH
 ELEV.=2217



GENERAL NOTES

1. THE TOPOGRAPHIC SURFACE INFORMATION SHOWN HEREON IS BASED ON AN ACTUAL FIELD SURVEY BY MARSH & LESSE LAND SURVEYORS, P.L.C. COMPLETED AUGUST 8, 2007.
2. HORIZONTAL DATUM IS BASED ON VA M.D. 83 SOUTH ZONE STATE GRID. VERTICAL DATUM IS BASED ON NGVD 29 ELEVATIONS BASED ON CONTROL SURVEY MONUMENTS ESTABLISHED AT SMITH MOUNTAIN LAKE STATE PARK.
3. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVEGROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD DRAWING. EXACT LOCATION OF EACH MAY VARY FROM THE LOCATION INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK, 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL LESS UTILITY OF VIRGINIA 1-800-852-7007 TOLL FREE.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
5. THE CONTRACTOR SHALL OBTAIN A COPY OF THE APPROVED DREDGING PERMIT DATED NOVEMBER 16, 2009 ISSUED BY AEP FROM THE OWNER PRIOR TO START OF CONSTRUCTION AND KEEP ON SITE AT ALL TIMES. ALL WORK SHALL CONFORM TO THE REQUIREMENTS SET BY THE PERMIT CONDITIONS.
6. THE CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 12" OF SAND OVER THE CLAY AND/OR UNSUITABLE SOILS SURFACE. THE CONTRACTOR SHALL DOCUMENT THE LOCATION AND THICKNESS OF SAND LAYER AND SUBMIT TO THE ENGINEER WITHIN 48 HOURS.
7. SUBSTANTIAL COMPLETION SHALL BE MET (80) CONSECUTIVE CALENDAR DAYS PRECEDING THE NOTICE TO PROCEED AND FINAL COMPLETION SHALL BE MET (30) DAYS AFTER SUBSTANTIAL COMPLETION. NO UNDER WATER EXCAVATION OR FILLING IS ALLOWED BETWEEN FEBRUARY 15 AND JUNE 30.
8. A WAIVER HAS BEEN REQUESTED FROM THE AEP SHORELINE PROTECTION PLAN PROHIBITION AGAINST DREDGING BELOW ELEVATION 786.0. DREDGING SHALL BE MAINTAINED AT OR ABOVE THE 784.0 ELEVATION.
9. DUE TO STOCKPILING AND CONSTRUCTION ACTIVITIES ALONG THE SHORELINE, THE CONTRACTOR SHALL BE RESPONSIBLE OF RESTORING THE SHORELINE, CONCRETE, AND ASPHALT WALKS TO PRE CONSTRUCTION CONDITIONS.
10. THE TEMPORARY STOCKPILES SHOWN ASSUMES A MAXIMUM QUANTITY OF SAND AND CLAY/UNSUITABLE SOILS THAT WILL BE STOCKPILED AT THE SITE DAILY.

LEGEND

ABBREVIATION/SYMBOL	DEFINITION
SB	SOIL BORING LOCATION
INV	INVERT
MP	METAL POST
RCP	REINFORCED CONCRETE PIPE
WP	WOOD POST
WSP	WOOD SIGN POST

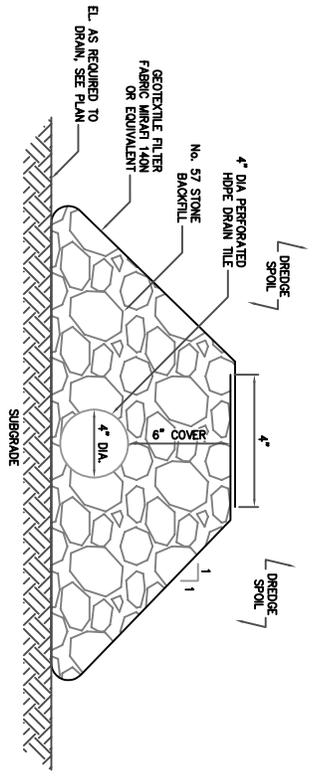
	DREDGING AREA
	CUT/EXCAVATION AREA
	PROPOSED CONTOUR
	EXISTING CONTOUR

ENCLOSURE & SETBACK LEGEND

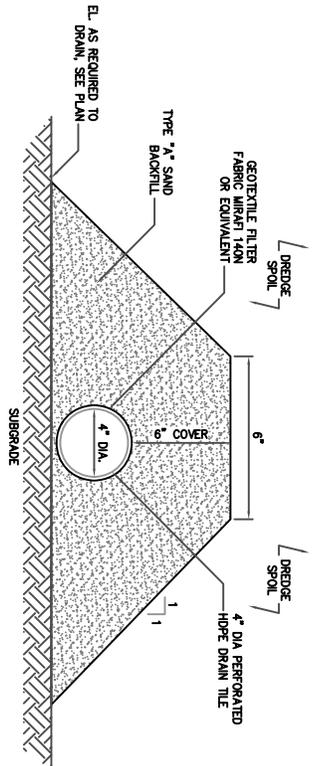
	OUTLET PROTECTION - 3.18
	CONSTRUCTION ENTRANCE - 3.02
	SALT FENCE - 3.05

SECTION COORDINATES

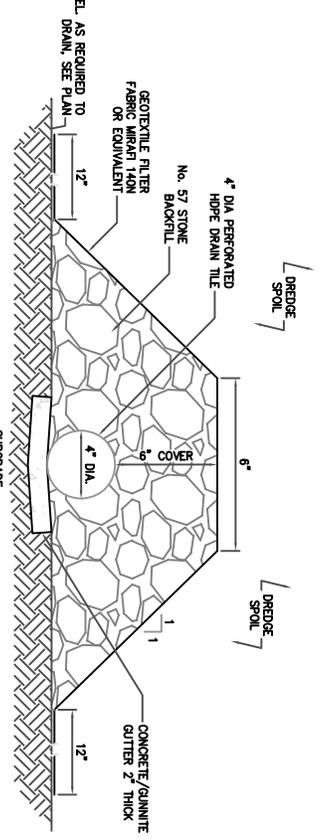
SEWAGE LAGOON (NORTH)
 PROPOSED CAP & DRAINAGE



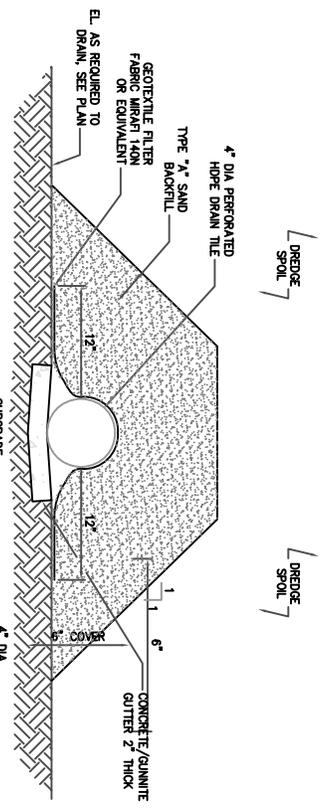
OPTION 1
SCALE: N.T.S.



OPTION 2
SCALE: N.T.S.

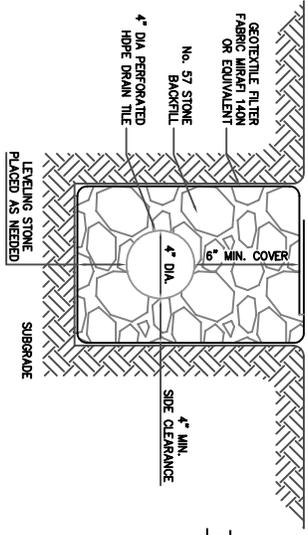


OPTION 3
SCALE: N.T.S.



OPTION 4
SCALE: N.T.S.

TYPICAL CROSS SECTION OF CONTAINMENT DIKES/BERMS SURROUNDING DISPOSAL SITE



TRENCH SECTION BENEATH DIKE
N.T.S.

X