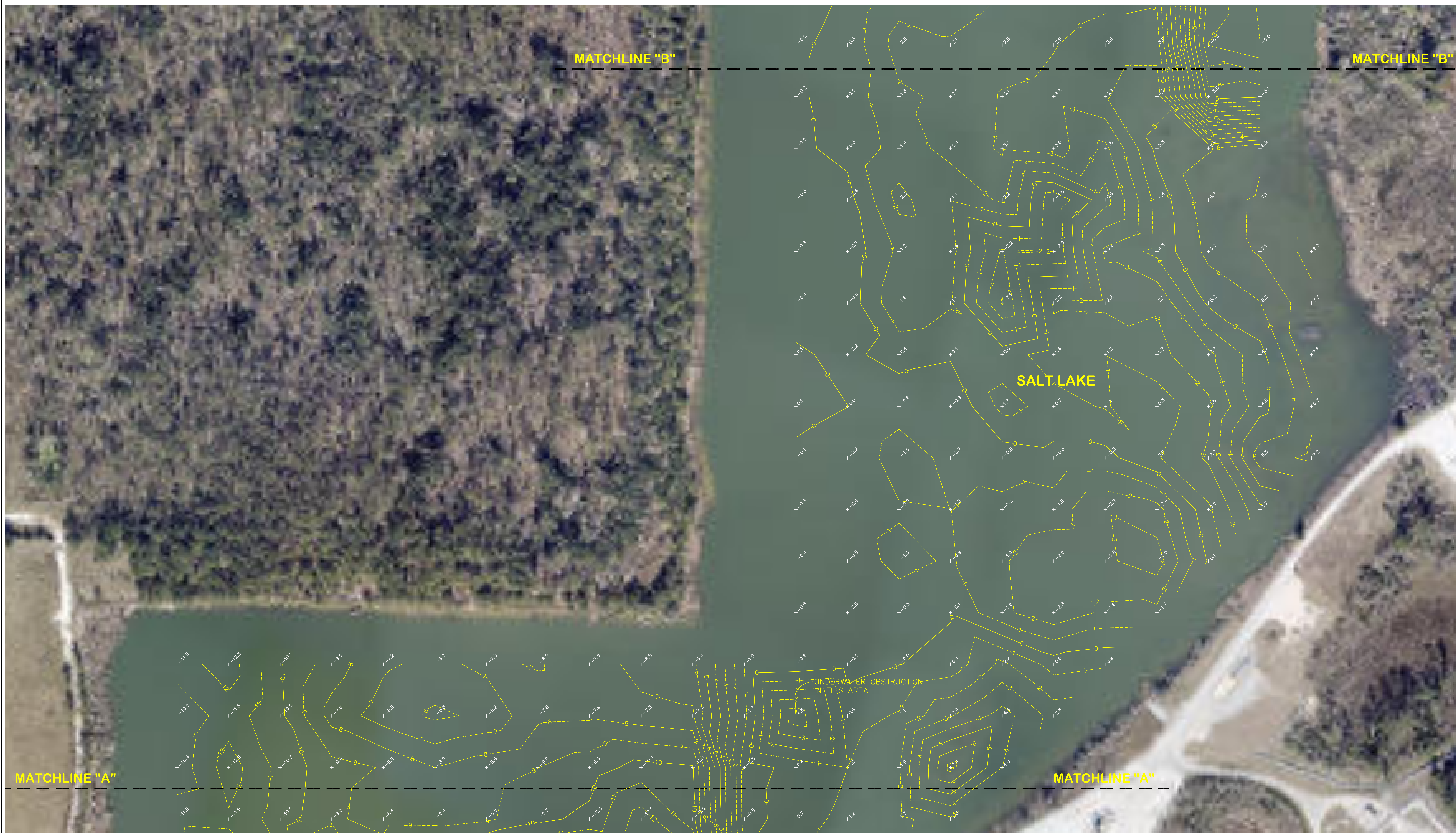




~~UNDERWATER OBSTRUCTION~~
~~IN THIS AREA~~

LEGEND

+13.7

WATER BOTTOM ELEVATION (NAVD88)

----- 1 FOOT CONTOUR LINE

————— 5 FOOT CONTOUR LINE

STATE OF LOUISIANA
DAVID W. SARGENT
License No. 4509
PROFESSIONAL
LAND SURVEYOR

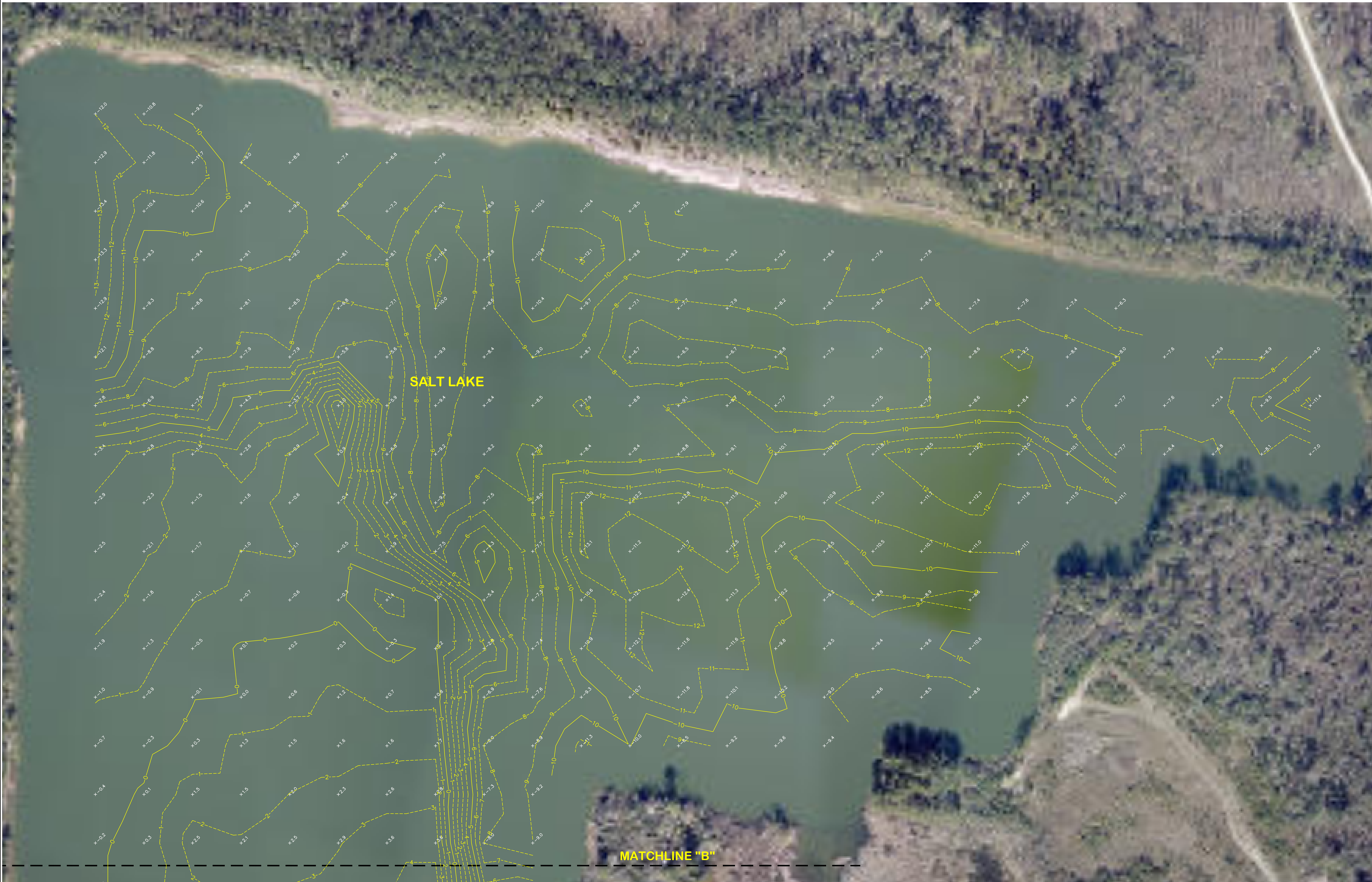
NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.

DESIGNED:	
DRAWN: DWS	
CHECKED: EH	
APPROVED: DBS	
F.B. No.:	

Pelican Land Surveying, L.L.C.
A Professional Land Surveying Firm
PO Box 1747
Sulphur, LA 70664-1747
Phone/Fax 337-533-8116

**BATHYMETRIC SURVEY
OF SALT LAKE AND CENTRAL LAKE
AT SULPHUR BRINE, SULPHUR, LOUISIANA**

			PROJECT NO.:	DATE:
			231206	JULY 16, 2024
			1" = 60'	2 OF 13
BY	REVISIONS	DATE	SCALE:	SHEET:



			PROJECT NO.:	DATE:
			231206	JULY 16, 2024
			1" = 60'	3 OF 13
BY	REVISIONS	DATE	SCALE:	SHEET:



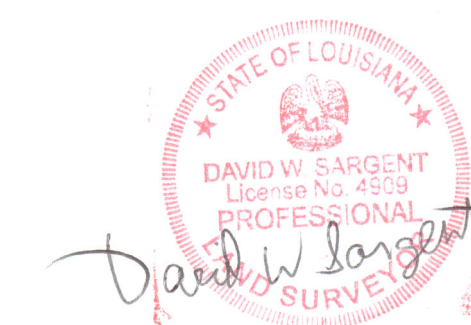
MATCHLINE "A"

MATCHLINE "A"



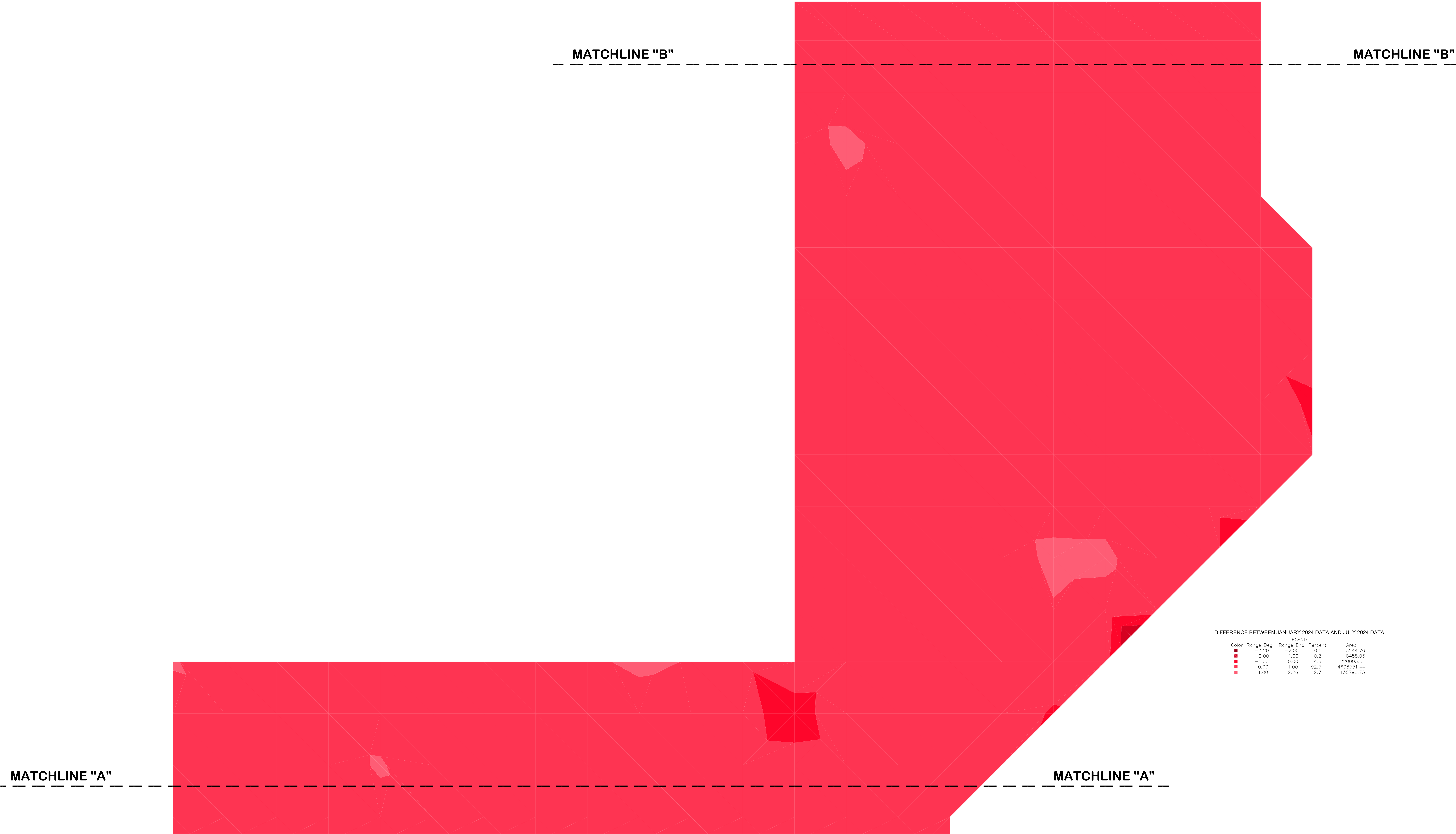
DIFFERENCE BETWEEN JANUARY 2024 DATA AND JULY 2024 DATA

		LEGEND			
Color	Range	Beg.	Range End	Percent	Area
	-3.20	-2.00	0.1	3244.76	
	-2.00	-1.00	0.2	8458.05	
	-1.00	0.00	4.3	220003.54	
	0.00	1.00	92.7	4698751.44	
	1.00	2.26	2.7	135798.73	



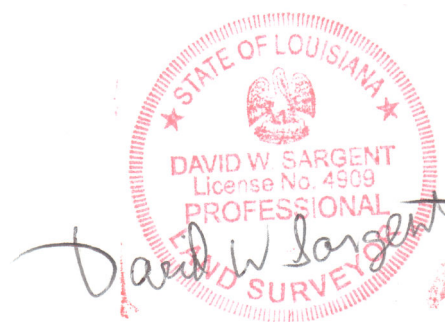
DIFFERENTIAL HEAT MAP - SALT LAKE

NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.

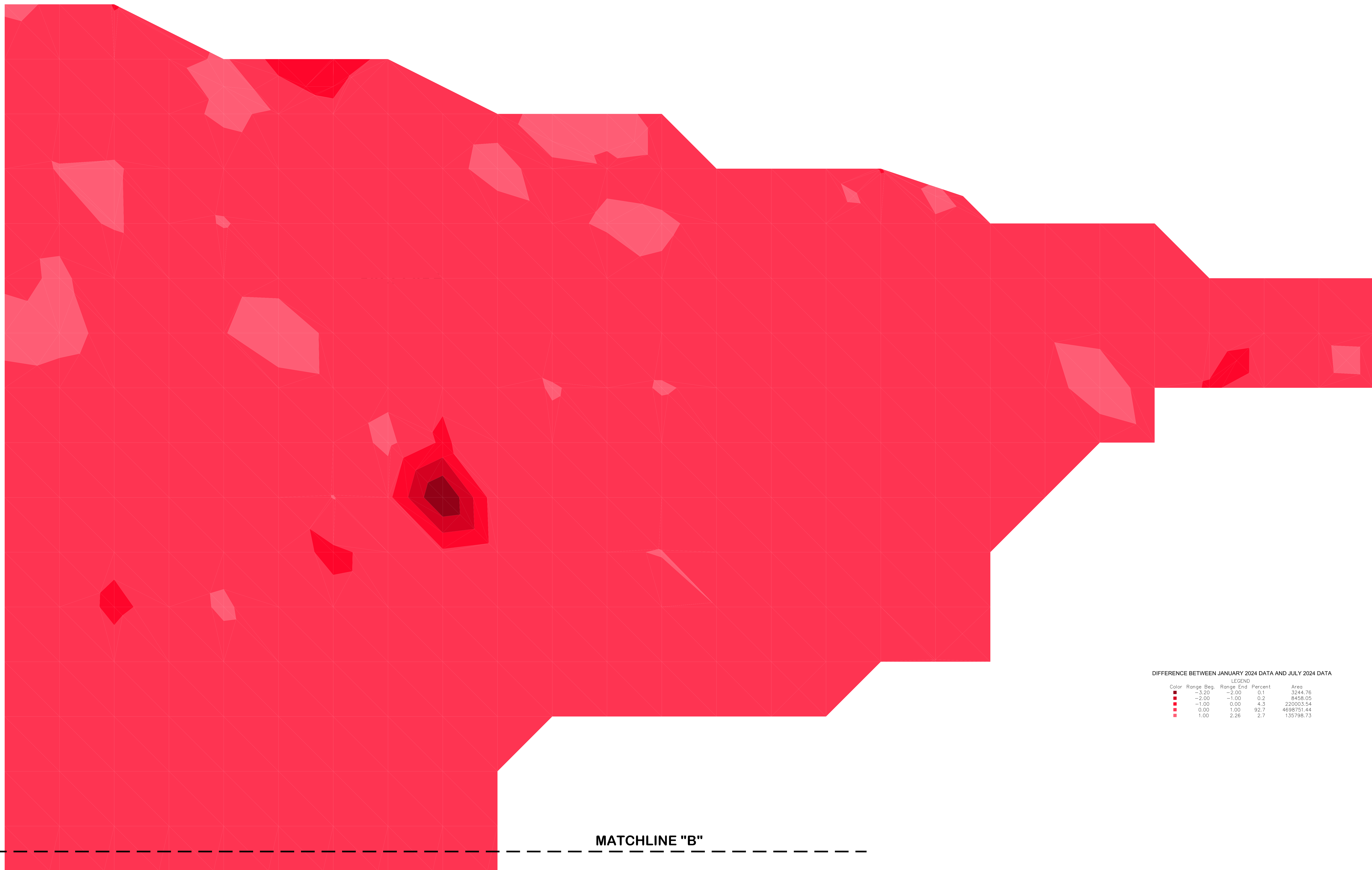


DIFFERENCE BETWEEN JANUARY 2024 DATA AND JULY 2024 DATA

LEGEND					
Color	Range	Beg.	Range End	Percent	Area
■	-3.20	-2.00	0.1	3244.76	
■	-2.00	-1.00	0.2	8458.05	
■	-1.00	0.00	4.3	220003.54	
■	0.00	1.00	92.7	4698751.44	
■	1.00	2.26	2.7	135798.73	



NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.



DIFFERENCE BETWEEN JANUARY 2024 DATA AND JULY 2024 DATA					
LEGEND					
Color	Range	Begin	Range End	Percent	Area
■	-3.00	-3.00	0.1		3244.76
■	-2.00	-1.00	0.2		8458.05
■	-1.00	0.00	4.3		220003.54
■	0.00	1.00	92.7		4698751.44
■	1.00	2.26	2.7		135798.73

MATCHLINE "B"

DIFFERENTIAL HEAT MAP - SALT LAKE



NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.

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DRAWN: DWS		
CHECKED: EH		
APPROVED: DBS		
F.B. No.:		

BATHYMETRIC SURVEY
OF SALT LAKE AND CENTRAL LAKE
AT SULPHUR BRINE, SULPHUR, LOUISIANA

			PROJECT NO.:	231206	DATE:	JULY 11, 2024
BY		REVISIONS	DATE	SCALE:	1" = 60'	6 OF 13

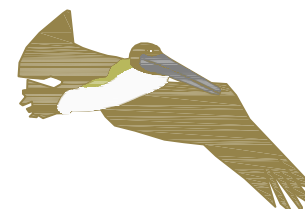


LEGEND	
x-13.7	WATER BOTTOM ELEVATION (NAVD83)
---	1 FOOT CONTOUR LINE
---	5 FOOT CONTOUR LINE



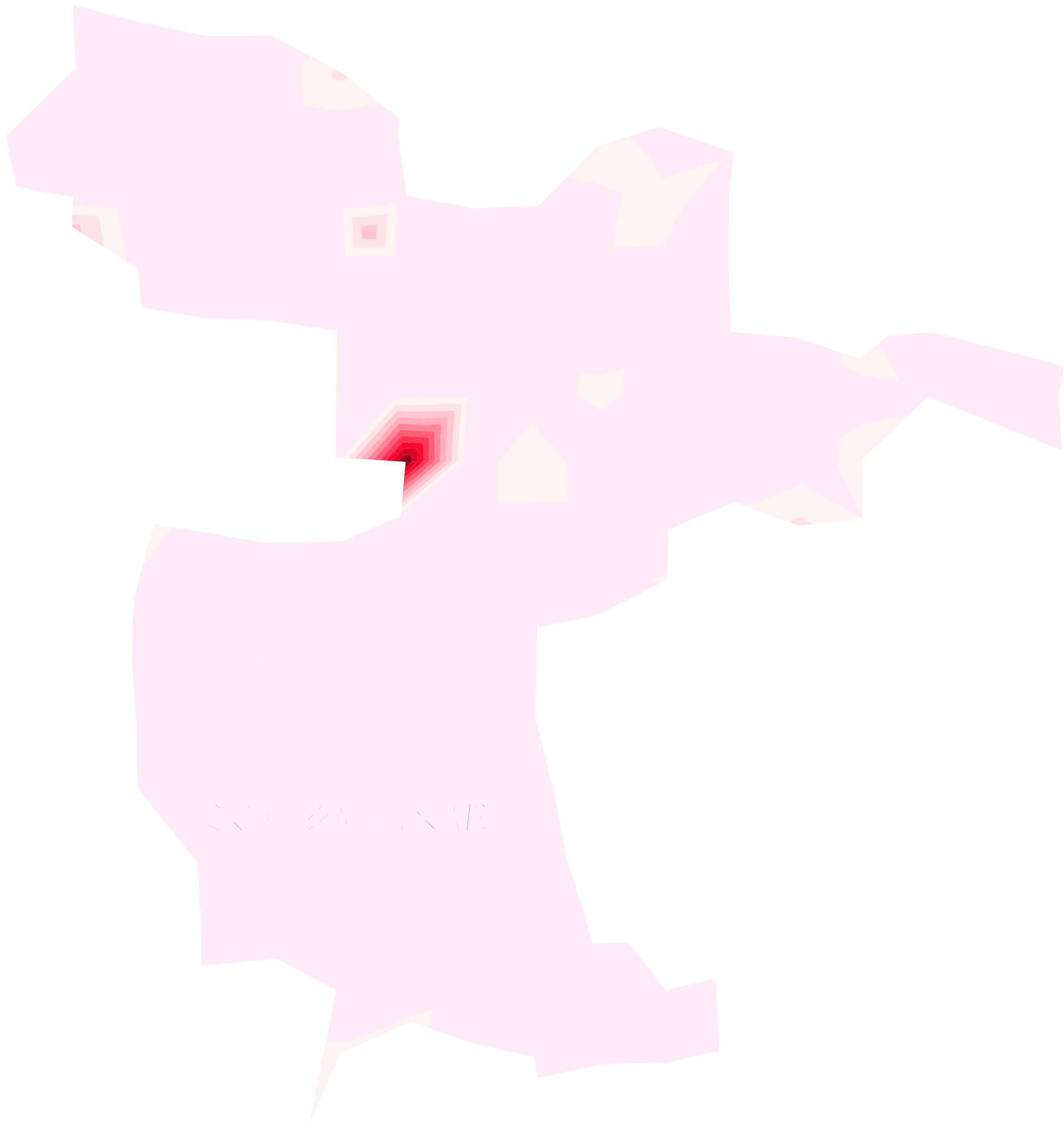
NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.

DESIGNED:	Pelican Land Surveying, L.L.C.
DRAWN: DWS	A Professional Land Surveying Firm
CHECKED: EH	PO Box 1747
APPROVED: DBS	Sulphur, LA 70664-1747
F.B. No.:	Phone/Fax 337-533-8116



BATHYMETRIC SURVEY
OF SALT LAKE AND CENTRAL LAKE
AT SULPHUR BRINE, SULPHUR, LOUISIANA

PROJECT NO.:	231206	DATE:	JULY 16, 2024
BY:	REVISIONS:	SCALE:	1" = 50'
DATE:		SHEET:	7 OF 13



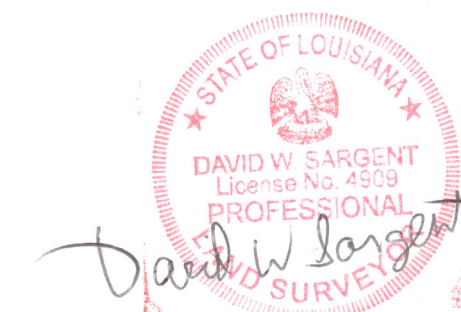
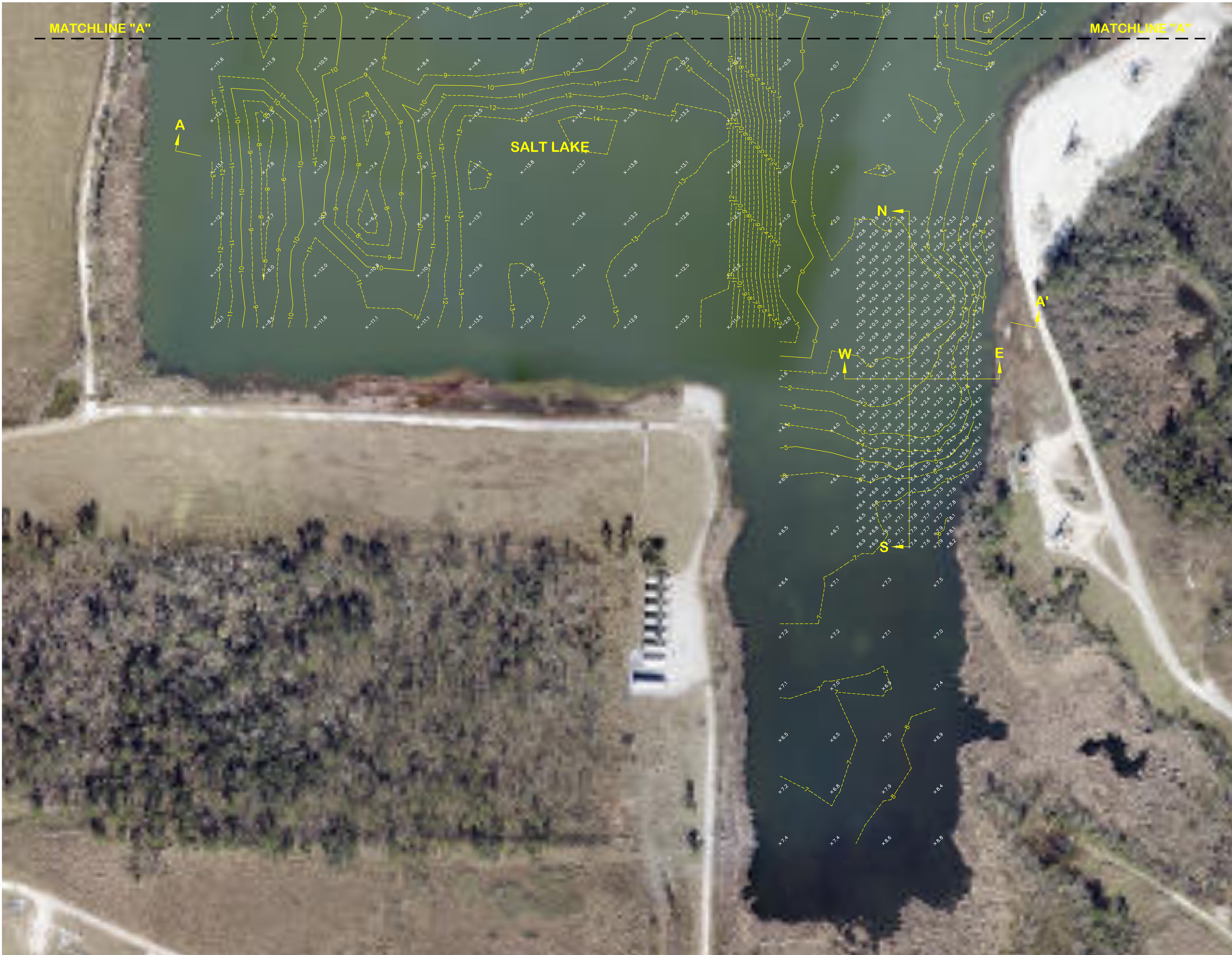
DIFFERENCE BETWEEN JANUARY 2024 DATA AND JULY 2024 DATA

Color	Range Beg.	Range End	Percent	Area
	-5.51	-5.00	0.0	46.31
	-5.00	-4.50	0.0	129.37
	-4.50	-4.00	0.1	212.61
	-4.00	-3.50	0.1	295.85
	-3.50	-3.00	0.1	379.12
	-3.00	-2.50	0.2	470.06
	-2.50	-2.00	0.2	567.18
	-2.00	-1.50	0.3	807.69
	-1.50	-1.00	0.6	1693.51
	-1.00	-0.50	5.8	15853.02
	-0.50	0.30	92.5	251678.43



DIFFERENTIAL HEAT MAP - CENTRAL LAKE

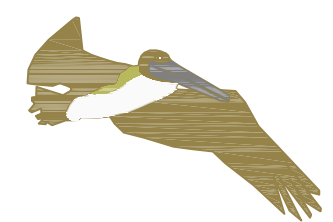
NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.



LEGEND	
	WATER BOTTOM ELEVATION (NAVD83)
	1 FOOT CONTOUR LINE
	5 FOOT CONTOUR LINE

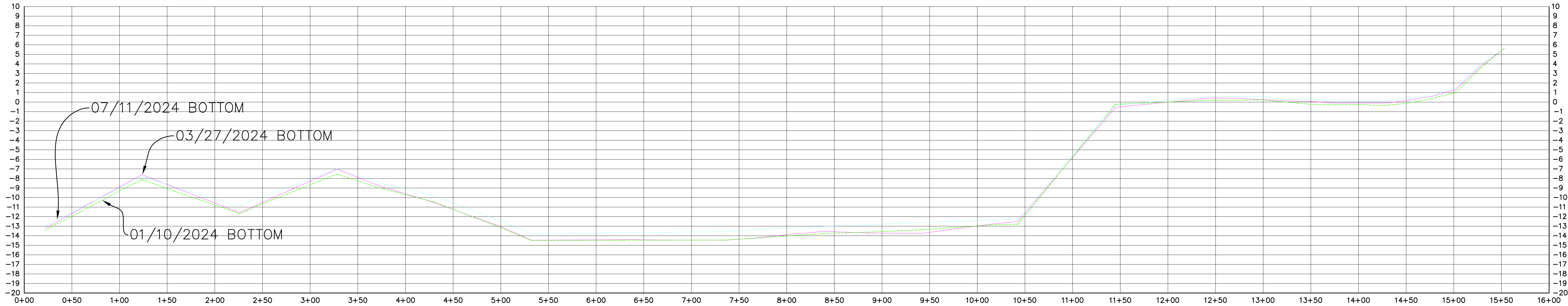
- NOTES:**
- 1) VERTICAL CONTROL IS REFERENCED TO SMS BENCHMARK NO. 3 (ELEV. 12.264' NAVD83).
 - 2) HORIZONTAL CONTROL IS REFERENCED TO NAD83 (2011), LOUISIANA SOUTH ZONE 1702.
 - 3) THE AERIAL IMAGE SHOWN HEREON WAS OBTAINED FROM CRPJ GIS. THE LOCATION IS APPROXIMATE.
 - 4) DATES OF SURVEY: JULY 11 AND 12, 2024
 - 5) TOP OF WATER - SALT LAKE; 07/11/2024 TOP OF WATER ELEVATION = 11.31.
 - 6) THE DATA SHOWN HEREON ARE ELEVATIONS.
 - 7) SEE SHEETS 1 THROUGH 8 FOR PLAN VIEW DRAWINGS. SEE SHEET 9 THROUGH 13 FOR CROSS SECTION VIEWS.
 - 8) SOUNDINGS OF SALT LAKE WERE PERFORMED USING A CVM ECHOTRAC HYDROGRAPHIC ECHOSOUNDER WITH A DUAL FREQUENCY TRANSDUCER. DATA WAS OBTAINED USING THE HIGH FREQUENCY (200 KHZ) AND CONVERTED TO ELEVATIONS THROUGH HYPPACK. BOTTOM ELEVATIONS OF CENTRAL LAKE WERE OBTAINED USING GPS.

DESIGNED:	Pelican Land Surveying, L.L.C.
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F.B. No.:	Phone/Fax 337-533-8116



**BATHYMETRIC SURVEY
OF SALT LAKE AND CENTRAL LAKE
AT SULPHUR BRINE, SULPHUR, LOUISIANA**

PROJECT NO.:	231206	DATE:	JULY 16, 2024
BY:	REVISIONS:	DATE:	SCALE:
			1" = 60'
			1 OF 13
			SHEET:

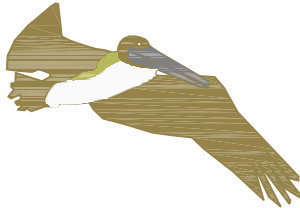


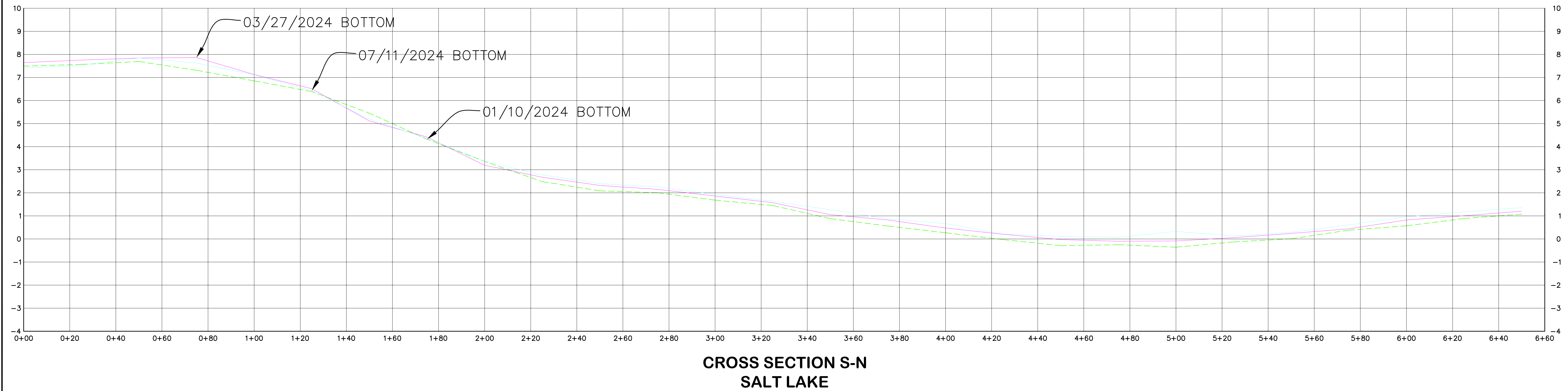
CROSS SECTION A-A'
SALT LAKE

SCALE:
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.

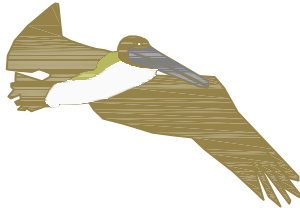
DESIGNED:	<i>Pelican Land Surveying, L.L.C.</i> A Professional Land Surveying Firm PO Box 1747 Sulphur, LA 70664-1747 Phone/Fax 337-533-8116 	BATHYMETRIC SURVEY OF SALT LAKE AND CENTRAL LAKE AT SULPHUR BRINE, SULPHUR, LOUISIANA						PROJECT NO.: 231206	DATE: JULY 16, 2024
DRAWN: DWS									
CHECKED: EH									
APPROVED: DBS								AS SHOWN	9 OF 13
F.B. No.:								SCALE:	SHEET:
					BY	REVISIONS	DATE		



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

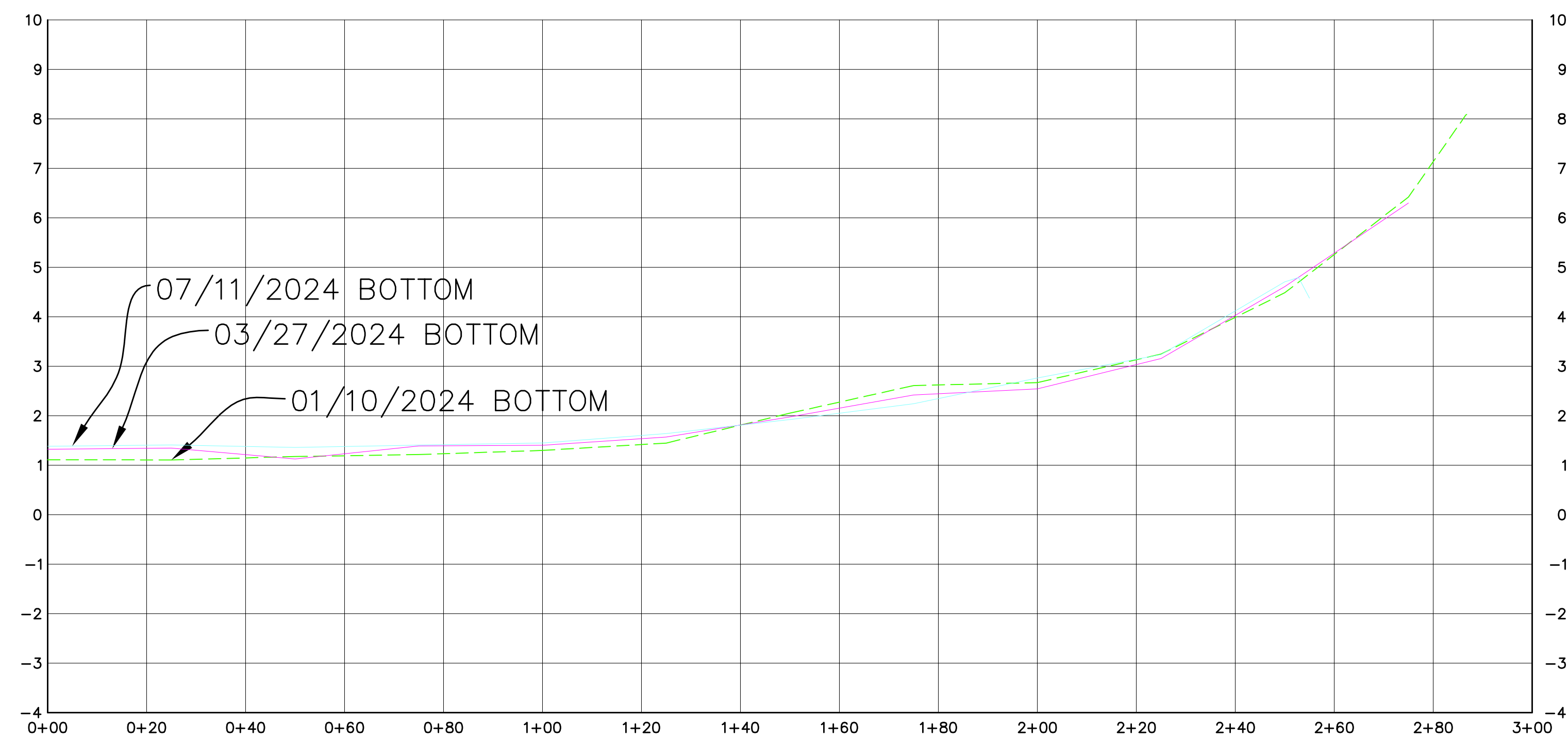


NOTE:
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DRAWN: DWS	
CHECKED: EH	
APPROVED: DBS	
F.B. No.:	

**BATHYMETRIC SURVEY
OF SALT LAKE AND CENTRAL LAKE
AT SULPHUR BRINE, SULPHUR, LOUISIANA**

			PROJECT NO.: 231206	DATE: JULY 16, 2024
			AS SHOWN	10 OF 13
BY	REVISIONS	DATE	SCALE:	SHEET:

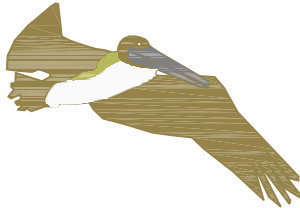


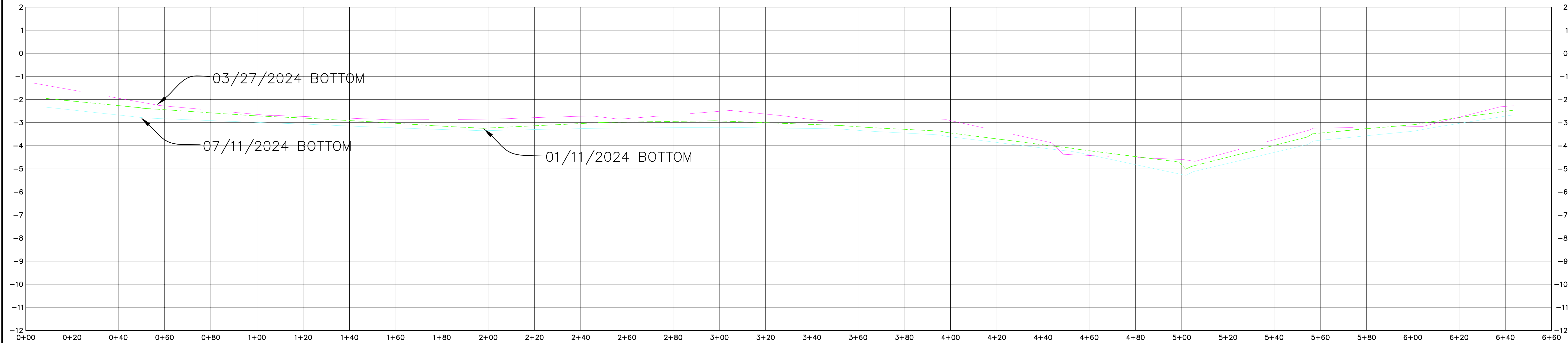
CROSS SECTION W-E
SALT LAKE

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



NOTE:
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DRAWN: DWS									231206	JULY 16, 2024
CHECKED: EH										
APPROVED: DBS									AS SHOWN	11 OF 13
F.B. No.:									SCALE:	SHEET:
						BY	REVISIONS	DATE		



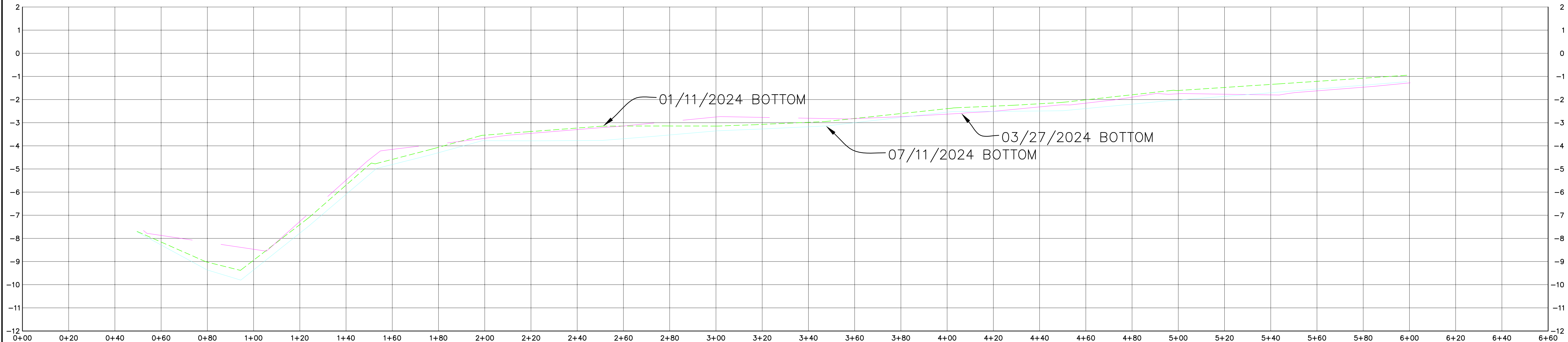
CROSS SECTION S-N
CENTRAL LAKE

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



NOTE:
1) SEE SHEET 1 FOR SURVEY NOTES.

DESIGNED:	Pelican Land Surveying, L.L.C. A Professional Land Surveying Firm PO Box 1747 Sulphur, LA 70664-1747 Phone/Fax 337-533-8116 	BATHYMETRIC SURVEY OF SALT LAKE AND CENTRAL LAKE AT SULPHUR BRINE, SULPHUR, LOUISIANA						PROJECT NO.:	231206	DATE:	JULY 16, 2024	
DRAWN: DWS										AS SHOWN	12 OF 13	SHEET:
CHECKED: EH												
APPROVED: DBS												
F.B. No.:												
					BY	REVISIONS	DATE	SCALE:				

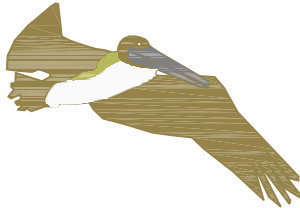


CROSS SECTION W-E
CENTRAL LAKE

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



NOTE:
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BATHYMETRIC SURVEY
OF SALT LAKE AND CENTRAL LAKE
AT SULPHUR BRINE, SULPHUR, LOUISIANA

			PROJECT NO.: 231206	DATE: JULY 16, 2024
			AS SHOWN	13 OF 13
BY	REVISIONS	DATE	SCALE:	SHEET: