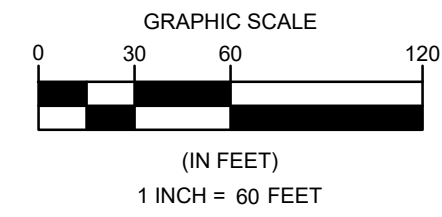
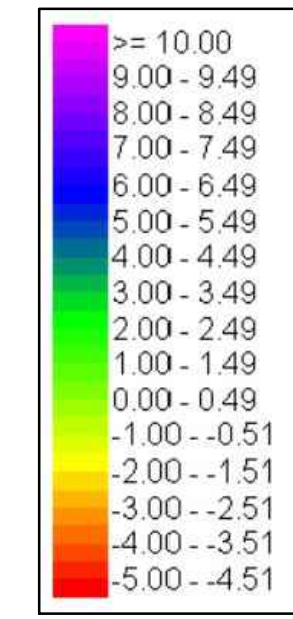


- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS GREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
 - SURVEY DATE: MULTIBEAM: 9/30/2023; SINGLE BEAM: 1/22/2024; TOPO: 1/23/2024
 - SURVEYOR: BAY MARINE SERVICES (BMS) KEVIN TWEED
 - VESSEL: 30' BOAT LEAH T
 - TRANS./FATH.: REASON 7125, 200/400 KHZ, 512 BEAMS, 0.5 DEGREES
 - WEATHER COND: 60 DEG, MOSTLY CLOUDY, WINDS 10-15 MPH
 - PROJECT DATUM: MLLW
 - COORD. SYSTEM: CA ZONE III
 - DATA REDUCTION: 15'X15' GRID, AVERAGE VALUE SORT
 - CONTOURS ARE BASED ON THE 5'X5' AVERAGE VALUE DATA SET
 - THE INFORMATION DEPICTED IN THIS PLAN REPRESENTS THE RESULTS OF BATHYMETRIC SURVEYS MERGED WITH LIDAR DATA EXTENDING UP THE SHORE BANKS BEYOND BATHYMETRIC SURVEYS. SURVEY RESULTS ARE INDICATIVE OF THE SURVEY DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATION OF GENERAL SURVEY CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS, OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FORTH FOR MORE DETAILED INFORMATION.
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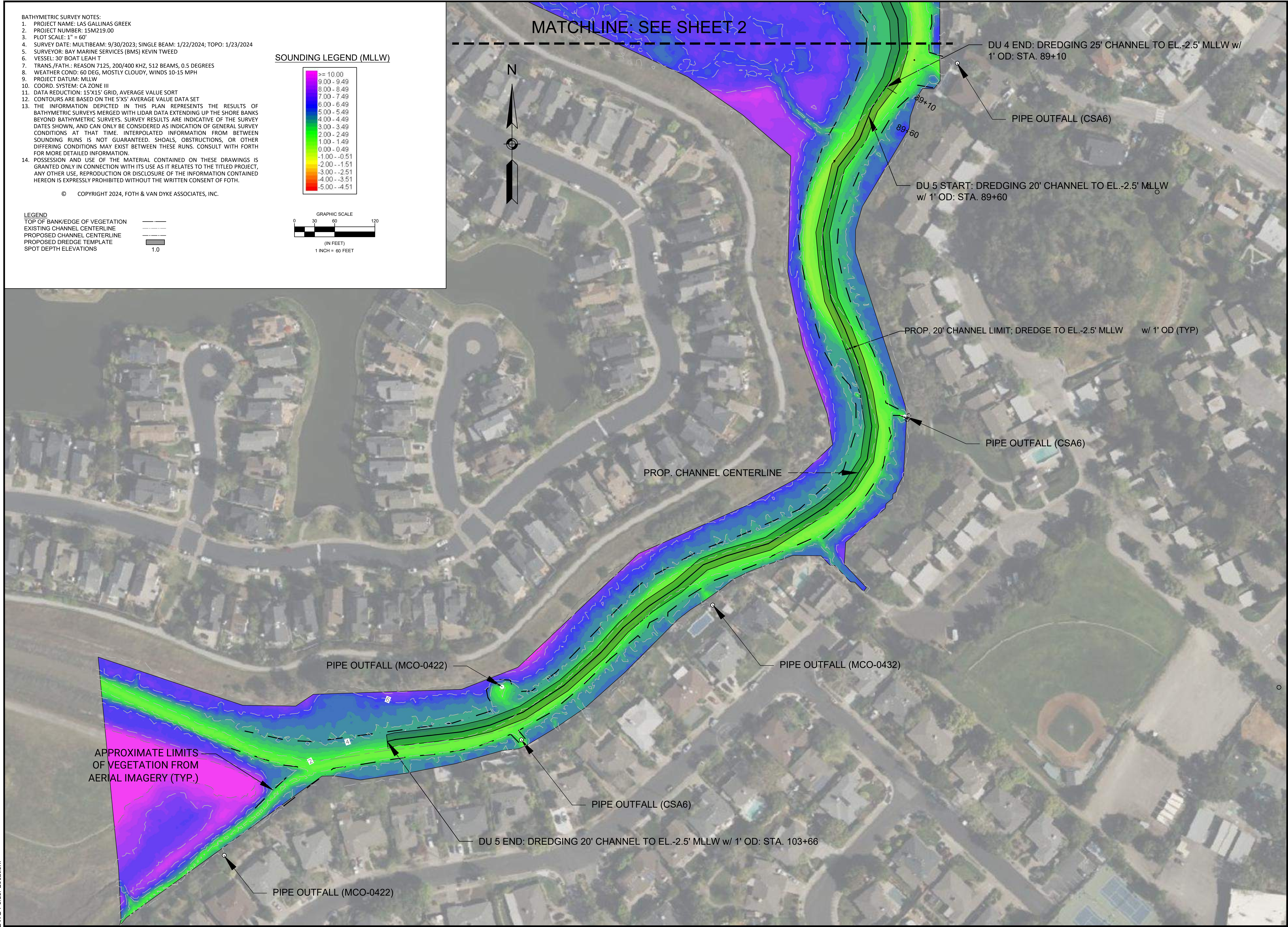
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- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS

SOUNDING LEGEND (MLLW)



MATCHLINE: SEE SHEET 2



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

2023 EXISTING
CONDITIONS
DRAFT
ISSUANCE:
**NOT FOR
CONSTRUCTION**
PROJECT NO: 0015M219
SHEET NUMBER
1 of 9

Thursday, February 15, 2024 8:24:11 AM
DWG Filename: las_gallinas_2023_survey_plot.dwg Layout: sheet 1
DWG Folder Location:

BATHYMETRIC SURVEY NOTES:

- PROJECT NAME: LAS GALLINAS GREEK
- PROJECT NUMBER: 15M219.00
- PLOT SCALE: 1" = 60'
- SURVEY DATE: MULTIBEAM: 9/30/2023; SINGLE BEAM: 1/22/2024; TOPO: 1/23/2024
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LEGEND

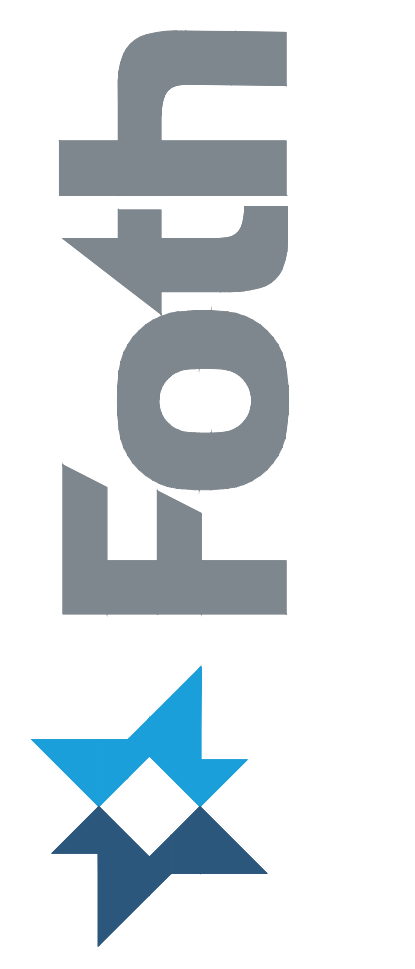
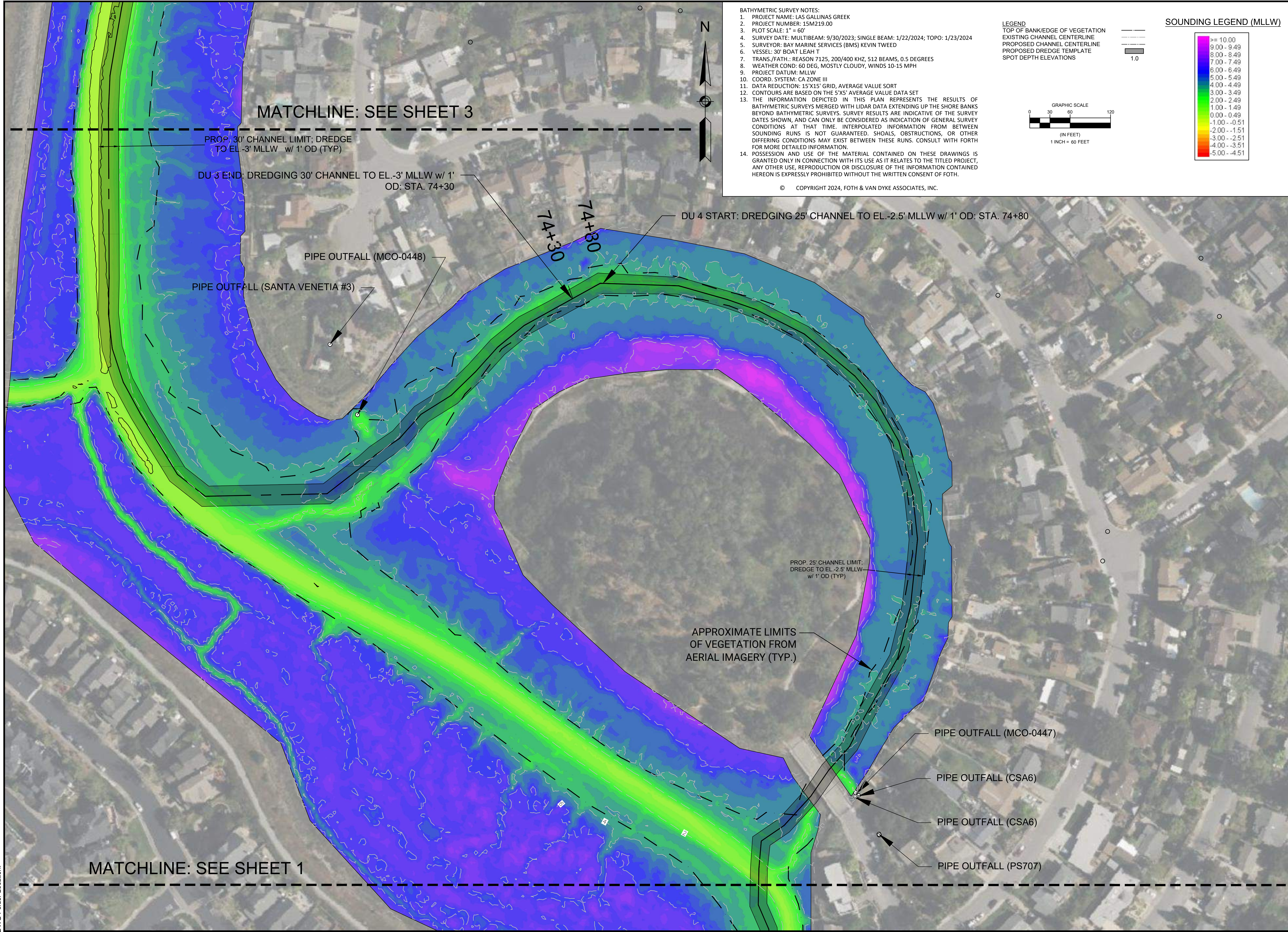
- TOP OF BANK/EDGE OF VEGETATION
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED DREDGE TEMPLATE
- SPOT DEPTH ELEVATIONS

SOUNDING LEGEND (MLLW)

>= 10.00
9.00 - 9.49
8.00 - 8.49
7.00 - 7.49
6.00 - 6.49
5.00 - 5.49
4.00 - 4.49
3.00 - 3.49
2.00 - 2.49
1.00 - 1.49
0.00 - 0.49
-1.00 - -1.51
-2.00 - -2.51
-3.00 - -3.51
-4.00 - -4.51
-5.00 - -4.51

GRAPHIC SCALE

0 30 60 120
(IN FEET)
1 INCH = 60 FEET



**LAS GALLINAS CREEK 2023
CONDITIONS SURVEY**
MARIN COUNTY, CA
**LAS GALLINAS MAINTENANCE
DREDGING PROJECT**

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

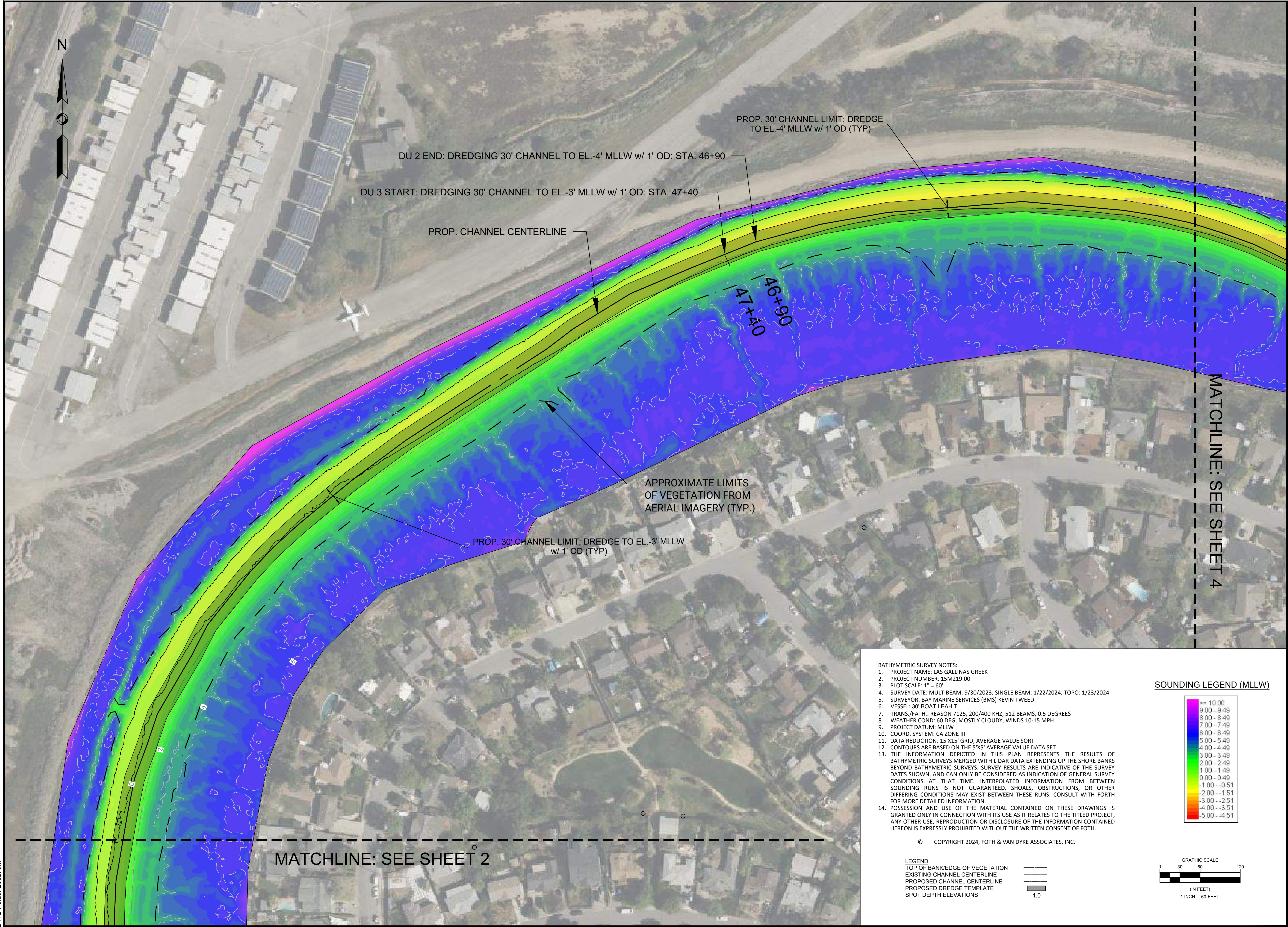
SURVEYED	BY	DATE
BMS		09/30/2023
DRAWN	BY	DATE
EDB		02/12/2024
DESIGNED	BY	DATE
N/A		N/A
CHECKED	BY	DATE
KEC		02/12/2024

**2023 EXISTING
CONDITIONS
DRAFT**

ISSUANCE:
**NOT FOR
CONSTRUCTION**

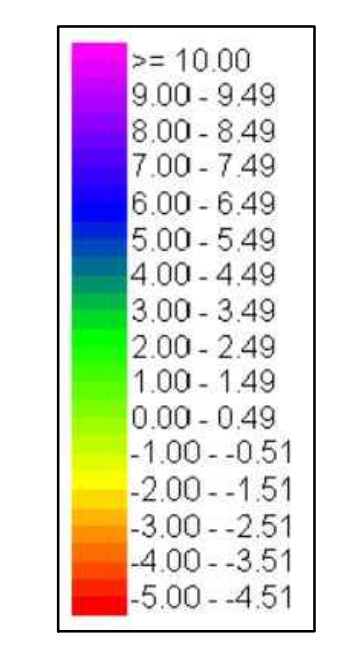
PROJECT NO: 0015M219
SHEET NUMBER
2 of 9

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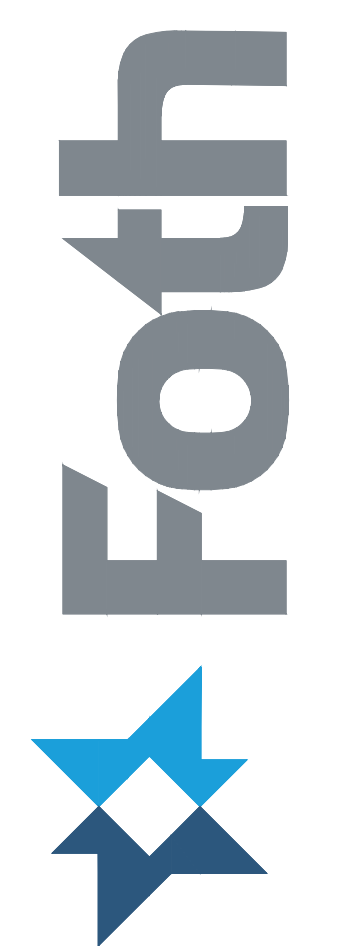
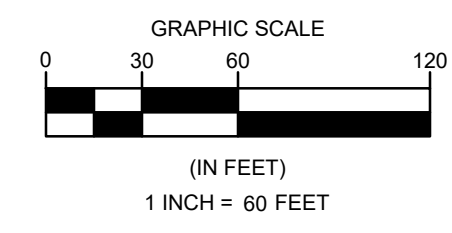
- BATHYMETRIC SURVEY NOTES:
1. PROJECT NAME: LAS GALLINAS CREEK
 2. PROJECT NUMBER: 15M219.00
 3. PLOT SCALE: 1" = 60'
 4. SURVEY DATE: MULTIBEAM: 9/30/2023; SINGLE BEAM: 1/22/2024; TOPO: 1/23/2024
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 9. PROJECT DATUM: MLLW
 10. COORD. SYSTEM: CA ZONE III
 11. DATA REDUCTION: 15'X15' GRID, AVERAGE VALUE SORT
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SOUNDING LEGEND (MLLW)



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- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

NO	DATE	DESCRIPTION

DATE OF PREPARATION

BY	DATE
SURVEYED BMS	09/30/2023
DRAWN EDB	02/12/2024
DESIGNED N/A	N/A
CHECKED KEC	02/12/2024

SHEET TITLE:

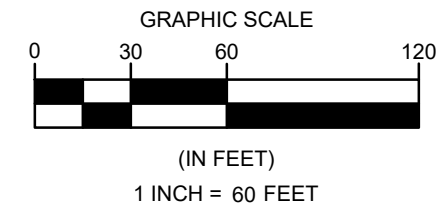
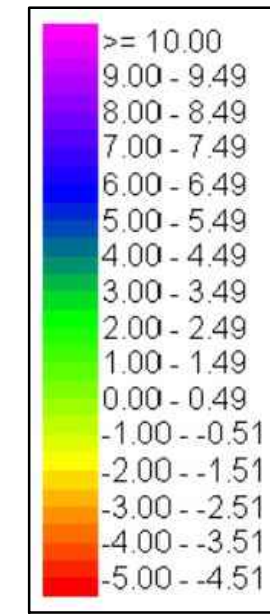
2023 EXISTING
CONDITIONS
DRAFT

ISSUANCE:
**NOT FOR
CONSTRUCTION**

PROJECT NO: 0015M219
SHEET NUMBER
3 of 9

- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS GREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
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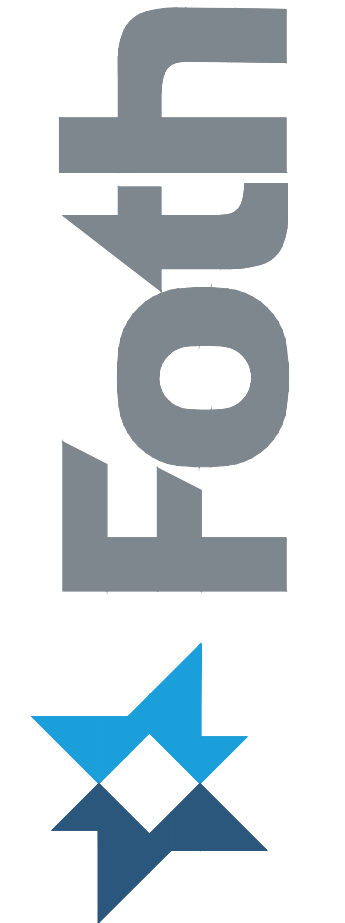
SOUNDING LEGEND (MLLW)



- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS



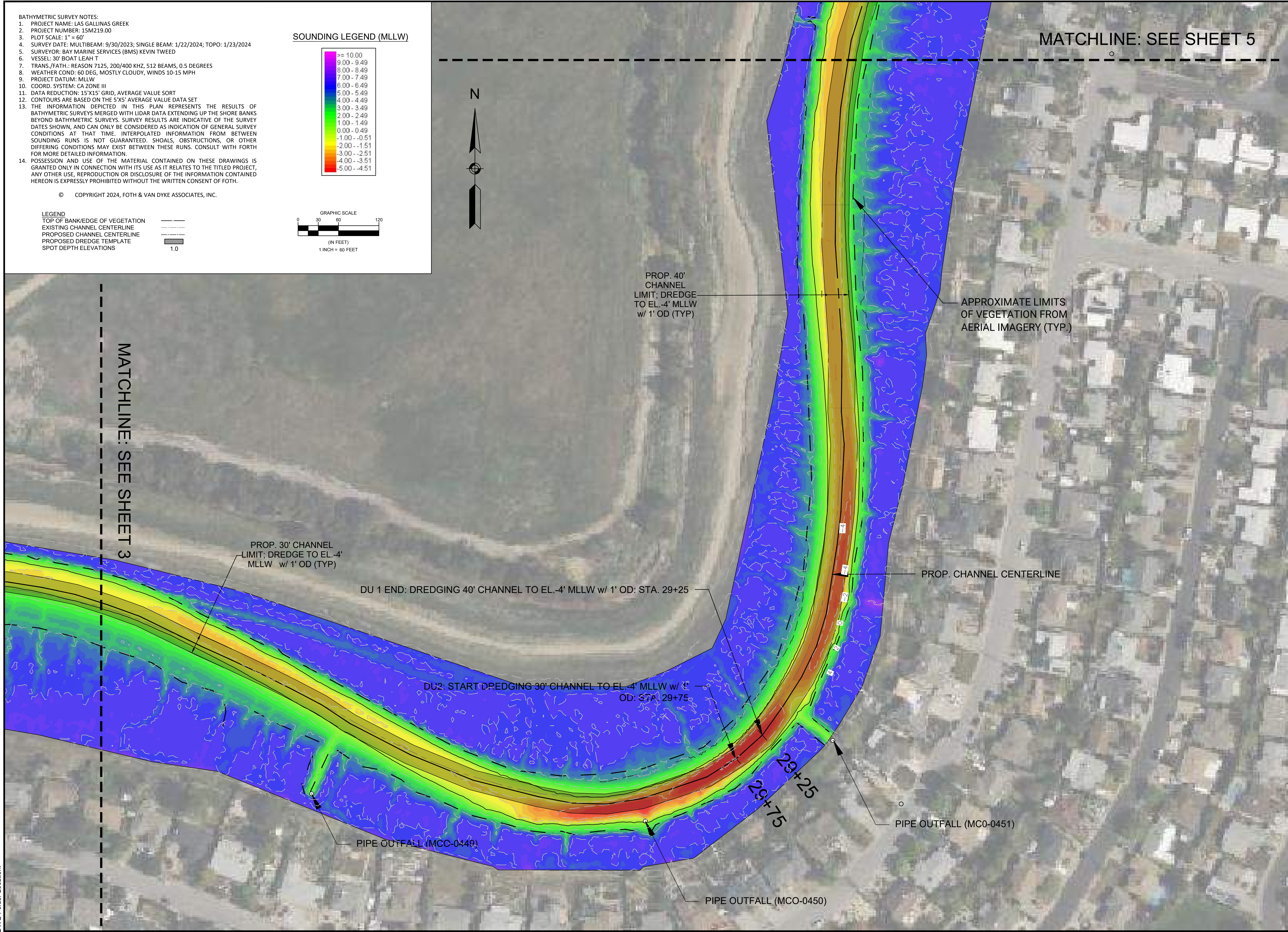
MATCHLINE: SEE SHEET 5



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

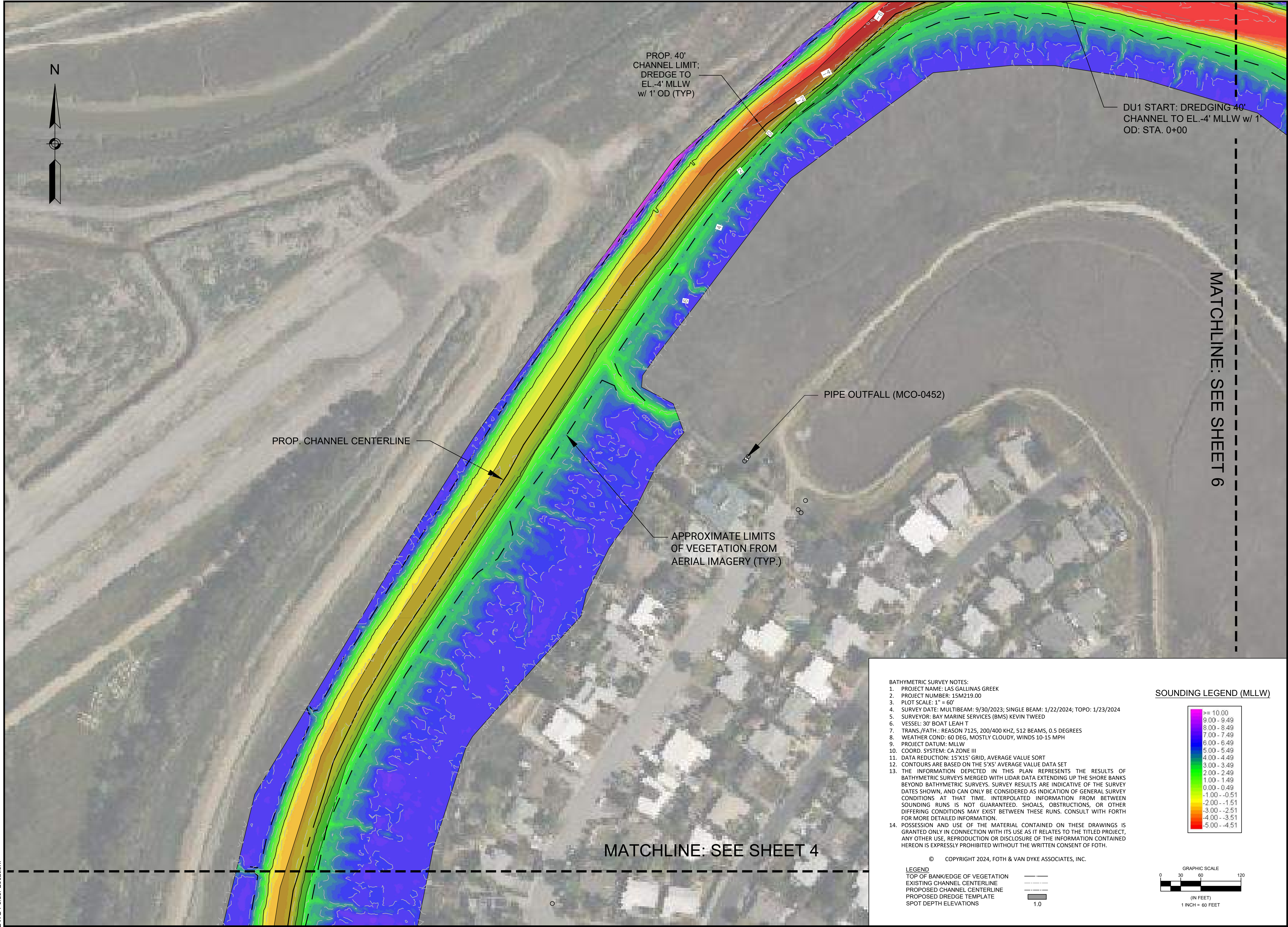
REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE

2023 EXISTING
CONDITIONS
DRAFT
ISSUANCE:
**NOT FOR
CONSTRUCTION**
PROJECT NO: 0015M219
SHEET NUMBER
4 of 9



Thursday, February 15, 2024 8:28:56 AM
DWG Filename: las_gallinas_2023_survey_plot.dwg
Layout: sheet 4
DWG Folder Location:

Thursday, February 15, 2024 8:29:16 AM
 DWG Filename: las gallinas 2023 survey_plot.dwg Layout: sheet 5
 DWG Folder Location:



PROP. 40'
 CHANNEL LIMIT;
 DREDGE TO
 EL.-4' MLLW
 w/ 1' OD (TYP)

DU1 START: DREDGING 40'
 CHANNEL TO EL.-4' MLLW w/ 1'
 OD: STA. 0+00

PROP. CHANNEL CENTERLINE

PIPE OUTFALL (MCO-0452)

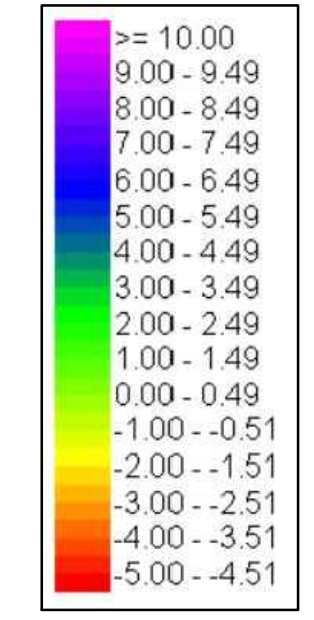
APPROXIMATE LIMITS
 OF VEGETATION FROM
 AERIAL IMAGERY (TYP.)

MATCHLINE: SEE SHEET 6

MATCHLINE: SEE SHEET 4

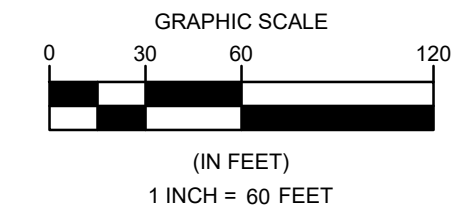
- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS CREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
 - SURVEY DATE: MULTIBEAM: 9/30/2023; SINGLE BEAM: 1/22/2024; TOPO: 1/23/2024
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 - COORD. SYSTEM: CA ZONE III
 - DATA REDUCTION: 15'X15' GRID, AVERAGE VALUE SORT
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SOUNDING LEGEND (MLLW)



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- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS



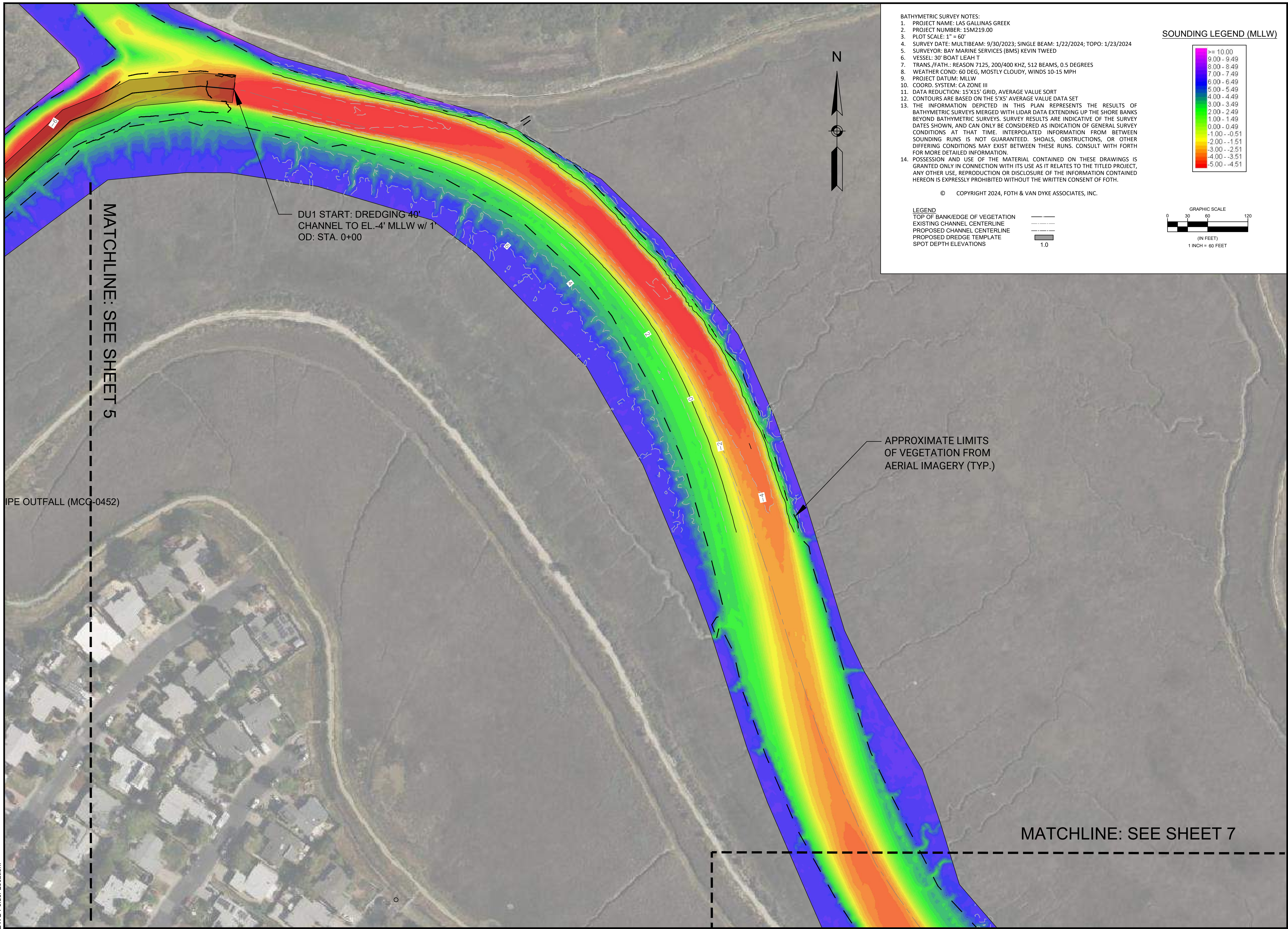
LAS GALLINAS CREEK 2023
 CONDITIONS SURVEY
 MARIN COUNTY, CA
 LAS GALLINAS MAINTENANCE
 DREDGING PROJECT

REVISIONS		DATE OF PREPARATION	
NO	DESCRIPTION	BY	DATE
		BMS	09/30/2023
		EDB	02/12/2024
		N/A	N/A
		KEC	02/12/2024

2023 EXISTING
 CONDITIONS
DRAFT

ISSUANCE:
**NOT FOR
 CONSTRUCTION**

PROJECT NO: 0015M219
 SHEET NUMBER

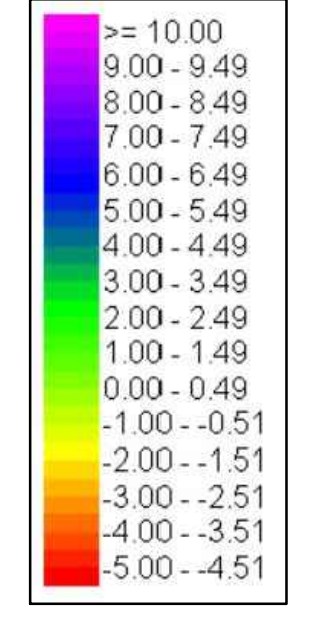


BATHYMETRIC SURVEY NOTES:

- PROJECT NAME: LAS GALLINAS CREEK
- PROJECT NUMBER: 15M219.00
- PLOT SCALE: 1" = 60'
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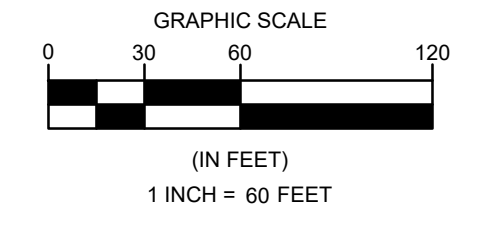
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SOUNDING LEGEND (MLLW)



LEGEND

- TOP OF BANK/EDGE OF VEGETATION
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED DREDGE TEMPLATE
- SPOT DEPTH ELEVATIONS



**LAS GALLINAS CREEK 2023
CONDITIONS SURVEY**
MARIN COUNTY, CA
**LAS GALLINAS MAINTENANCE
DREDGING PROJECT**

NO.	BY	DATE	REVISIONS	
			DESCRIPTION	
1				
2				
3				
4				
5				

DATE OF PREPARATION		
	BY	DATE
SURVEYED	BMS	09/30/2023
DRAWN	EDB	02/12/2024
DESIGNED	N/A	N/A
CHECKED	KEC	02/12/2024

SHEET TITLE:

**2023 EXISTING
CONDITIONS
DRAFT**

ISSUANCE:

**NOT FOR
CONSTRUCTION**

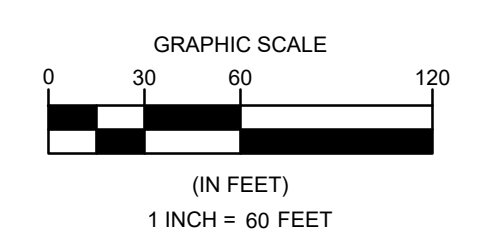
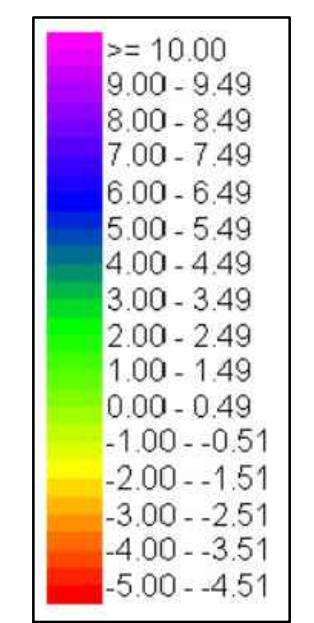
PROJECT NO: 0015M219
SHEET NUMBER

MATCHLINE: SEE SHEET 6



- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS GREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
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SOUNDING LEGEND (MLLW)



- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS

APPROXIMATE LIMITS OF VEGETATION FROM AERIAL IMAGERY (TYP.)

MATCHLINE: SEE SHEET 8



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

2023 EXISTING
CONDITIONS
DRAFT

ISSUANCE:
**NOT FOR
CONSTRUCTION**

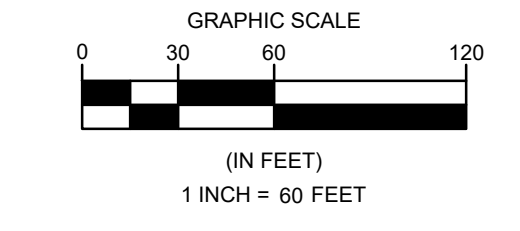
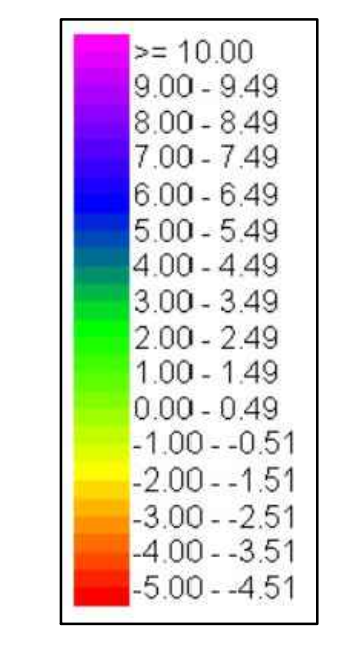
PROJECT NO: 0015M219
SHEET NUMBER
7 of 9

BATHYMETRIC SURVEY NOTES:

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- SURVEYOR: BAY MARINE SERVICES (BMS) KEVIN TWEED
- VESSEL: 30' BOAT LEAH T
- TRANS./FATH.: REASON 7125, 200/400 KHZ, 512 BEAMS, 0.5 DEGREES
- WEATHER COND: 60 DEG, MOSTLY CLOUDY, WINDS 10-15 MPH
- PROJECT DATUM: MLLW
- COORD. SYSTEM: CA ZONE III
- DATA REDUCTION: 15'X15' GRID, AVERAGE VALUE SORT
- CONTOURS ARE BASED ON THE 5'X5' AVERAGE VALUE DATA SET
- THE INFORMATION DEPICTED IN THIS PLAN REPRESENTS THE RESULTS OF BATHYMETRIC SURVEYS MERGED WITH LIDAR DATA EXTENDING UP THE SHORE BANKS BEYOND BATHYMETRIC SURVEYS. SURVEY RESULTS ARE INDICATIVE OF THE SURVEY DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATION OF GENERAL SURVEY CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS, OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FOTH FOR MORE DETAILED INFORMATION.
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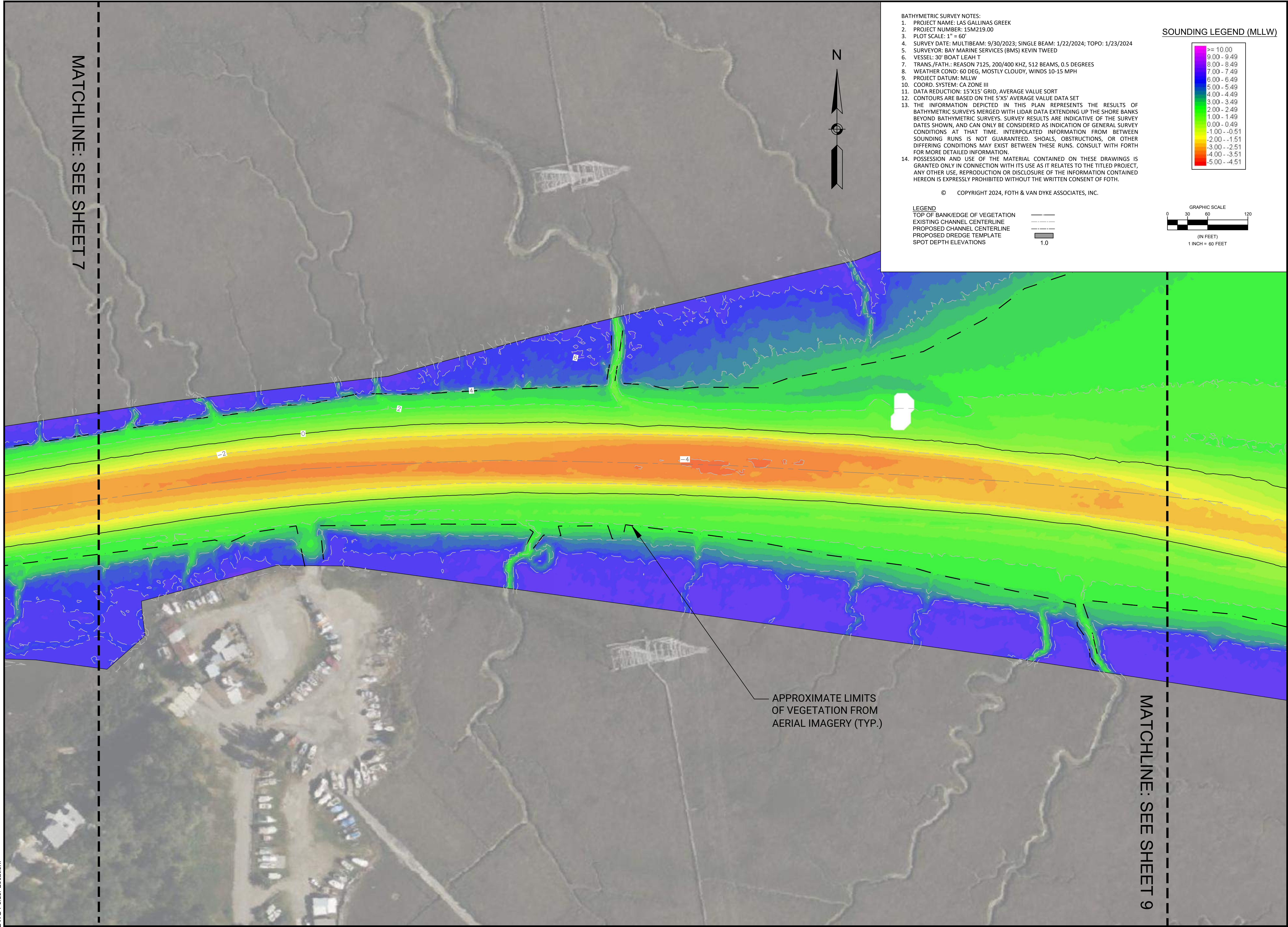
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SOUNDING LEGEND (MLLW)



LEGEND

- TOP OF BANK/EDGE OF VEGETATION
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED DREDGE TEMPLATE
- SPOT DEPTH ELEVATIONS



APPROXIMATE LIMITS OF VEGETATION FROM AERIAL IMAGERY (TYP.)

MATCHLINE: SEE SHEET 7

MATCHLINE: SEE SHEET 9



**LAS GALLINAS CREEK 2023
CONDITIONS SURVEY**
MARIN COUNTY, CA
**LAS GALLINAS MAINTENANCE
DREDGING PROJECT**

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

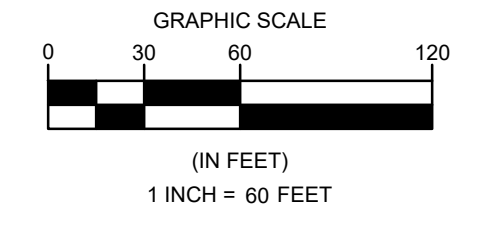
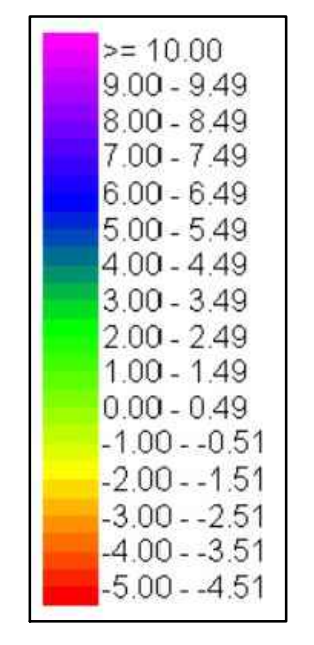
**2023 EXISTING
CONDITIONS
DRAFT**

ISSUANCE:
**NOT FOR
CONSTRUCTION**

PROJECT NO: 0015M219
SHEET NUMBER
8 of 9

- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS GREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
 - SURVEY DATE: MULTIBEAM: 9/30/2023; SINGLE BEAM: 1/22/2024; TOPO: 1/23/2024
 - SURVEYOR: BAY MARINE SERVICES (BMS) KEVIN TWEEED
 - VESSEL: 30' BOAT LEAH T
 - TRANS./FATH: REASON 7125, 200/400 KHZ, 512 BEAMS, 0.5 DEGREES
 - WEATHER COND: 60 DEG, MOSTLY CLOUDY, WINDS 10-15 MPH
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 - COORD. SYSTEM: CA ZONE III
 - DATA REDUCTION: 15'X15' GRID, AVERAGE VALUE SORT
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SOUNDING LEGEND (MLLW)

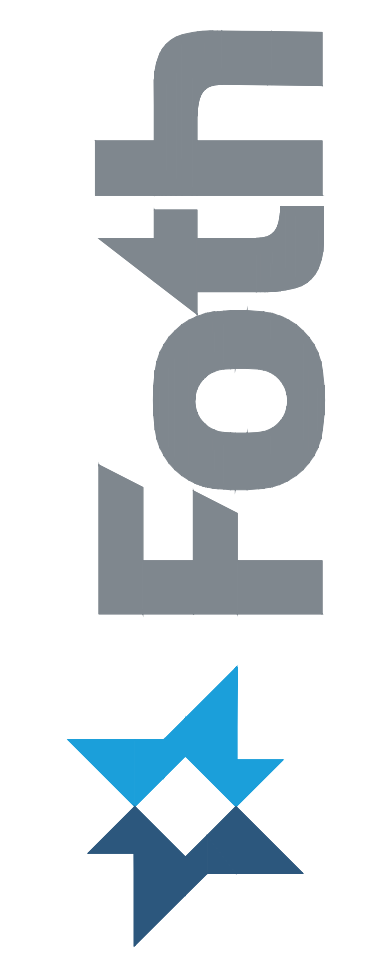


- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS



MATCHLINE: SEE SHEET 8

APPROXIMATE LIMITS OF VEGETATION FROM AERIAL IMAGERY (TYP.)



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

REVISIONS		DESCRIPTION	
NO.	DATE	BY	DATE
1			
2			
3			
4			
5			

DATE OF PREPARATION		
	BY	DATE
SURVEYED	BMS	09/30/2023
DRAWN	EDB	02/12/2024
DESIGNED	N/A	N/A
CHECKED	KEC	02/12/2024

SHEET TITLE:

**2023 EXISTING
CONDITIONS
DRAFT**

ISSUANCE:
**NOT FOR
CONSTRUCTION**

PROJECT NO: 0015M219
SHEET NUMBER