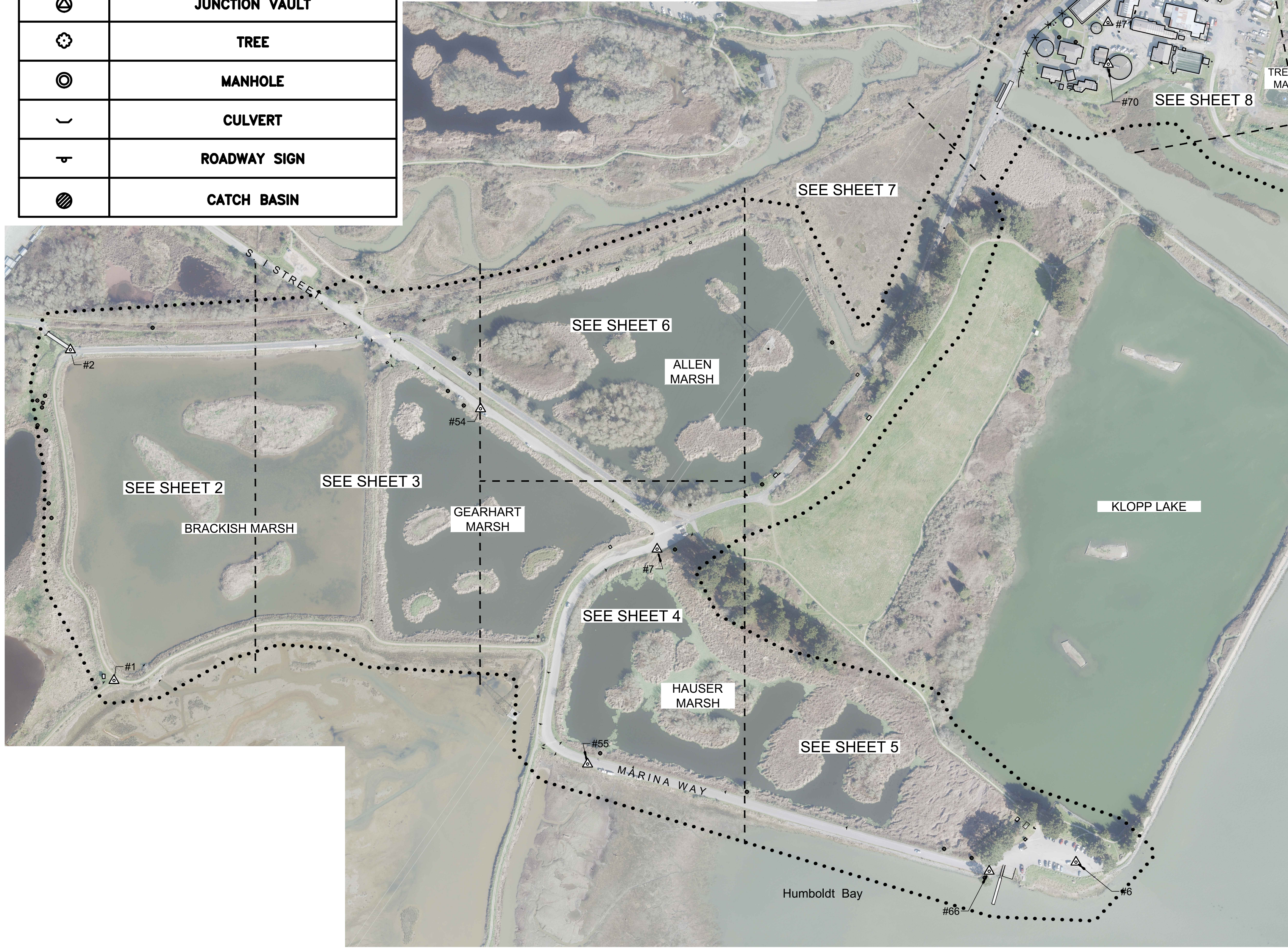
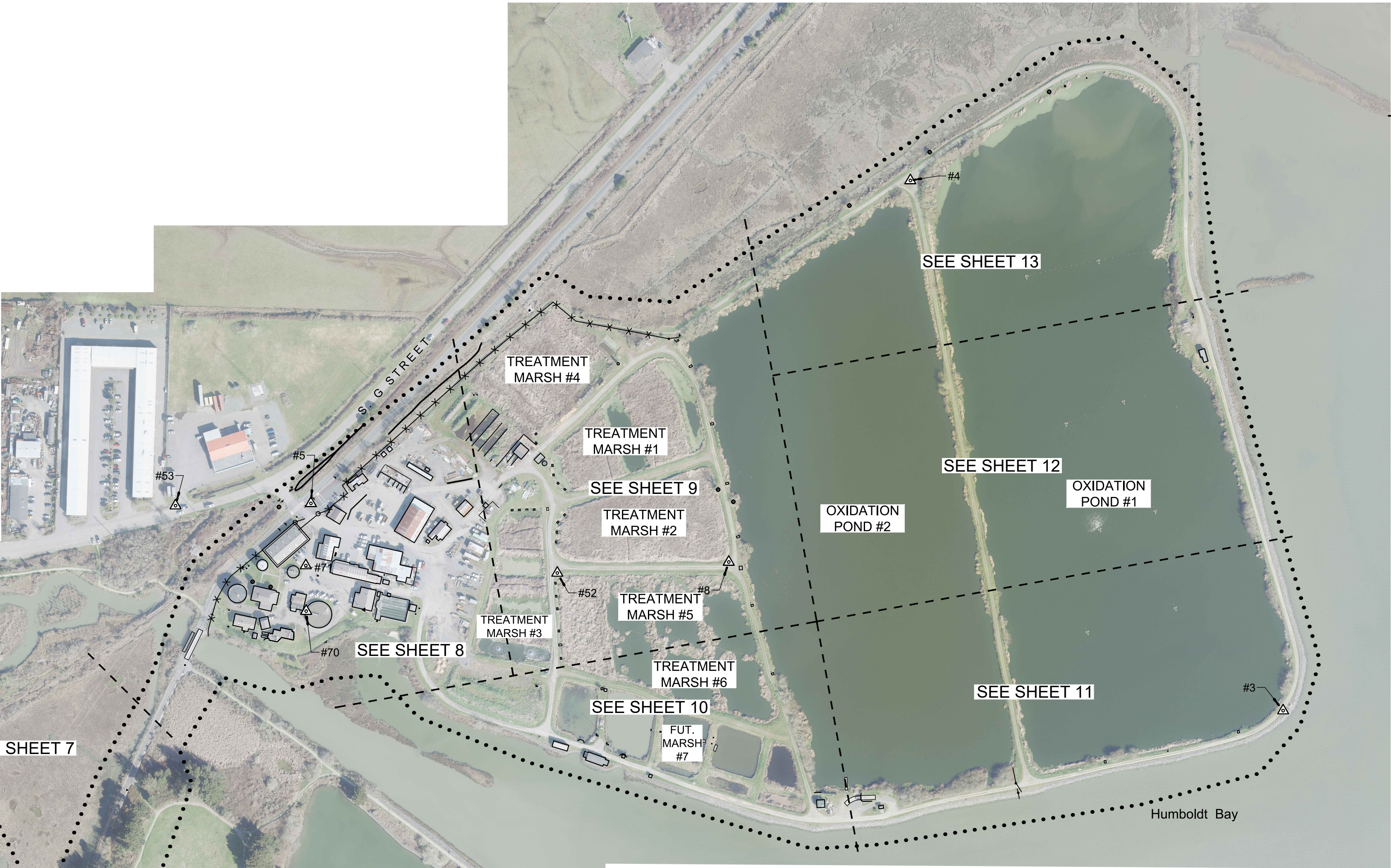


SYMBOL LEGEND	
	H/V CONTROL POINT
	STREET LIGHT
	POWER POLE
	BOLLARD
	MISC POLE
	MISC POST
	GATE ARM
	SPOT
	HYDRANT
	UTILITY BOX
	MISC UTILITY
	JUNCTION VAULT
	TREE
	MANHOLE
	CULVERT
	ROADWAY SIGN
	CATCH BASIN

SURVEY CONTROL POINTS				
Num.	Northing	Easting	Elevation	Description
1	2204584.438	5981832.336	12.36	AERIAL TARGET
2	2204704.395	5982741.509	10.66	AERIAL TARGET
3	2199388.553	5983276.380	12.51	AERIAL TARGET
4	2200327.665	5984612.433	11.00	AERIAL TARGET
5	2201837.701	5983798.602	10.48	AERIAL TARGET
6	2201938.567	5981332.657	10.07	AERIAL TARGET
7	2203090.714	5982193.370	8.40	AERIAL TARGET
8	2200785.081	5983650.863	9.76	CP_SPK
52	2201216.976	5983623.266	10.66	CP_SPK
53	2202178.800	5983792.937	7.75	CP_MAG
54	2203576.331	5982579.500	9.19	AERIAL TARGET
55	2203281.849	5981602.374	10.26	AERIAL TARGET
65	2202065.779	5981437.124	14.89	CP_CUT_X
66	2202177.296	5981307.642	10.86	CP_MAG
70	2201849.597	5983527.230	17.62	CP_CUT_X
71	2201850.527	5983642.048	9.77	CP_MAG



SURVEY NOTES:

- The purpose of this survey is to map facilities at the City of Arcata Wastewater Treatment Plant and surrounding ponds for Carollo Engineers. This survey is to serve as a base map for Carollo Engineers City of Arcata Wastewater Treatment Plant Facilities Improvement Project.
- Mapping was obtained by aerial photogrammetric means by GeoTerra, Inc. Mapping was acquired on March 5th, 2018 and reflects conditions at that time. Mapping was flown for a mapping scale of 1"=40'.
- Contract excluded Underground utility mapping. Only select structures were surveyed for elevations shown.
- Bearings and distances are Zone 1 California Coordinate System of 1983 (NAD 83 (2011)) Epoch 2010.0 in US Survey Feet. NGS PID#LV1180 was held to for horizontal control of the project. The mapping angle at Fly Point number five, adjacent to the entrance gate to the Treatment Plant, is 1 degree 21 minutes 58 seconds- rotate bearings counterclockwise by this angle to obtain "True" or Geodetic bearings. Grid distances shown should be divided by the Combined Scale factor of 0.99989894 to obtain ground distances. Elevations are NAVD88 Datum based on ties to NGS PID# LV0299. An elevation of 7.49 feet was held on this point.
- Primary Control is shown hereon and is based on a static GPS Control Survey and supplemental control set by conventional survey techniques.

THIS MAP WAS PHOTOGRAMMETRICALLY COMPILED FROM 6.005CM/0.197FT GSD 100,500 MM C.F.L. DIGITAL AERIAL PHOTOS TO MEET NATIONAL MAP ACCURACY STANDARDS (NMAS) AT 1"=40' SCALE. PUBLICATION OR USE AT ANY OTHER SCALE WILL VOID ANY IMPLIED OR STIPULATED ACCURACY STANDARDS. THIS MAP HAS NOT BEEN VERIFIED BY FIELD CHECKS. FIELD VERIFICATION OF MAP ACCURACY SHOULD OCCUR PRIOR TO DESIGN LEVEL TASKS THAT ARE DEPENDENT UPON THIS MAP. ACCURACY INSIDE GROUND NOT VISIBLE AREA MAY VARY IN ACCORDANCE WITH NMAS.		ARCATA TREATMENT PLANT (ARCATA, CALIFORNIA)	
VIEWPORT SCALE: 1" = 200' CONTOUR INTERVAL: 1' PHOTO DATE: 05 MAR 2018 HORIZONTAL DATUM: NAD83 (2011) VERTICAL DATUM: NAVD88 UNITS: US SURVEY FEET COORDINATE SYSTEM: CALIFORNIA STATE PLANE -- ZONE 1 JOB#: 180088		PHOTOGRAMMETRY BY: GEOTERRA 860 MCKINLEY, EUGENE OREGON 97402 PHONE: 541-343-8877	
HORIZONTAL AND VERTICAL CONTROL PROVIDED BY: POINTS WEST SURVEYING, INC. DAVID CRIVELLI 5201 CARLSON PARK DR, STE 3 ARCATA, CA 95521 707-840-9510			

TOPOGRAPHIC SURVEY

of the
**City of Arcata Wastewater
Treatment Facility**

601 S. G Street, Arcata, CA. 95521

prepared for
Carollo Engineers

May 15, 2018

SCALE: 1" = 200'

SHEET 1 OF 13

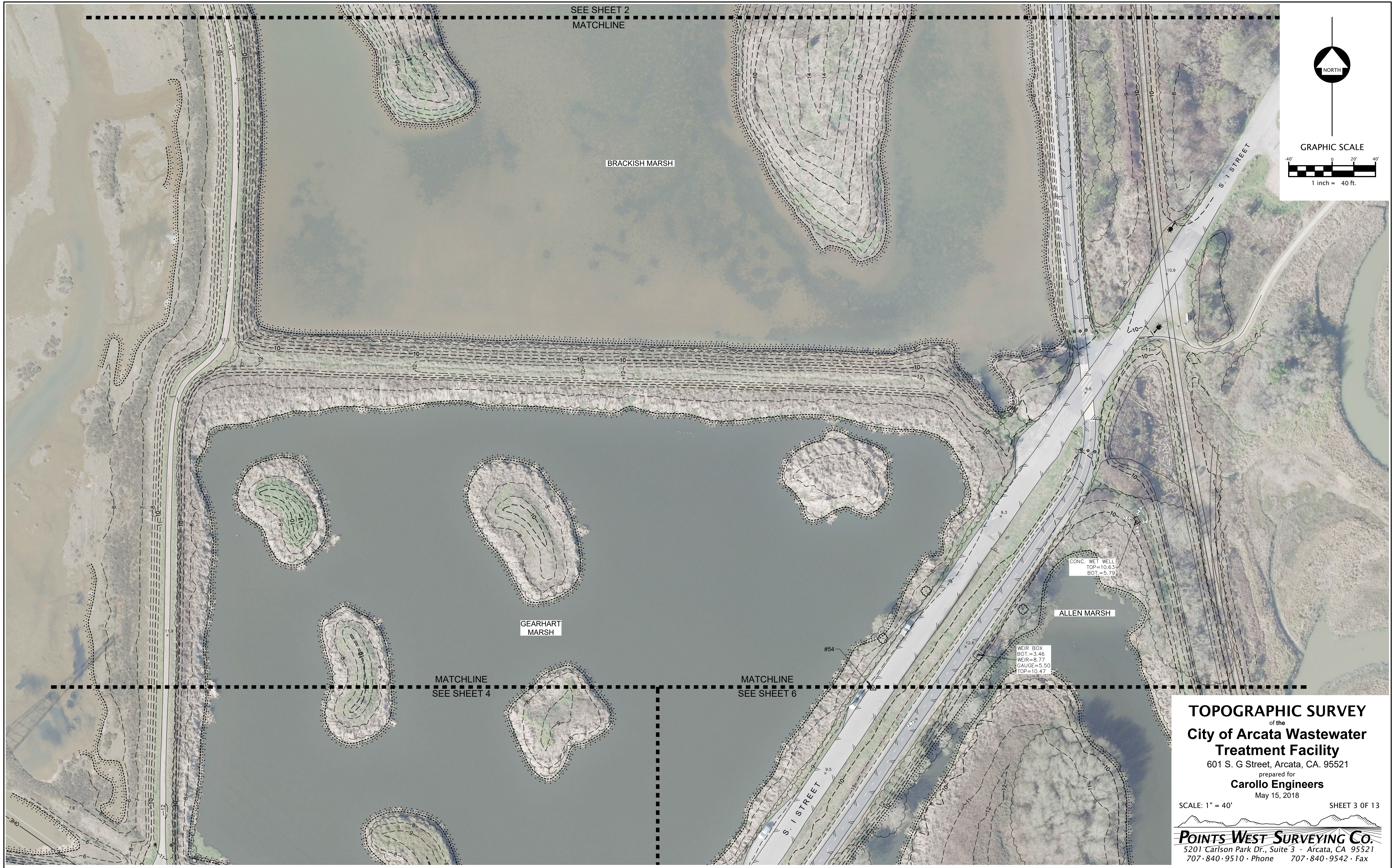
POINTS WEST SURVEYING CO.
5201 Carlson Park Dr., Suite 3 - Arcata, CA 95521
707-840-9510 - Phone 707-840-9542 - Fax

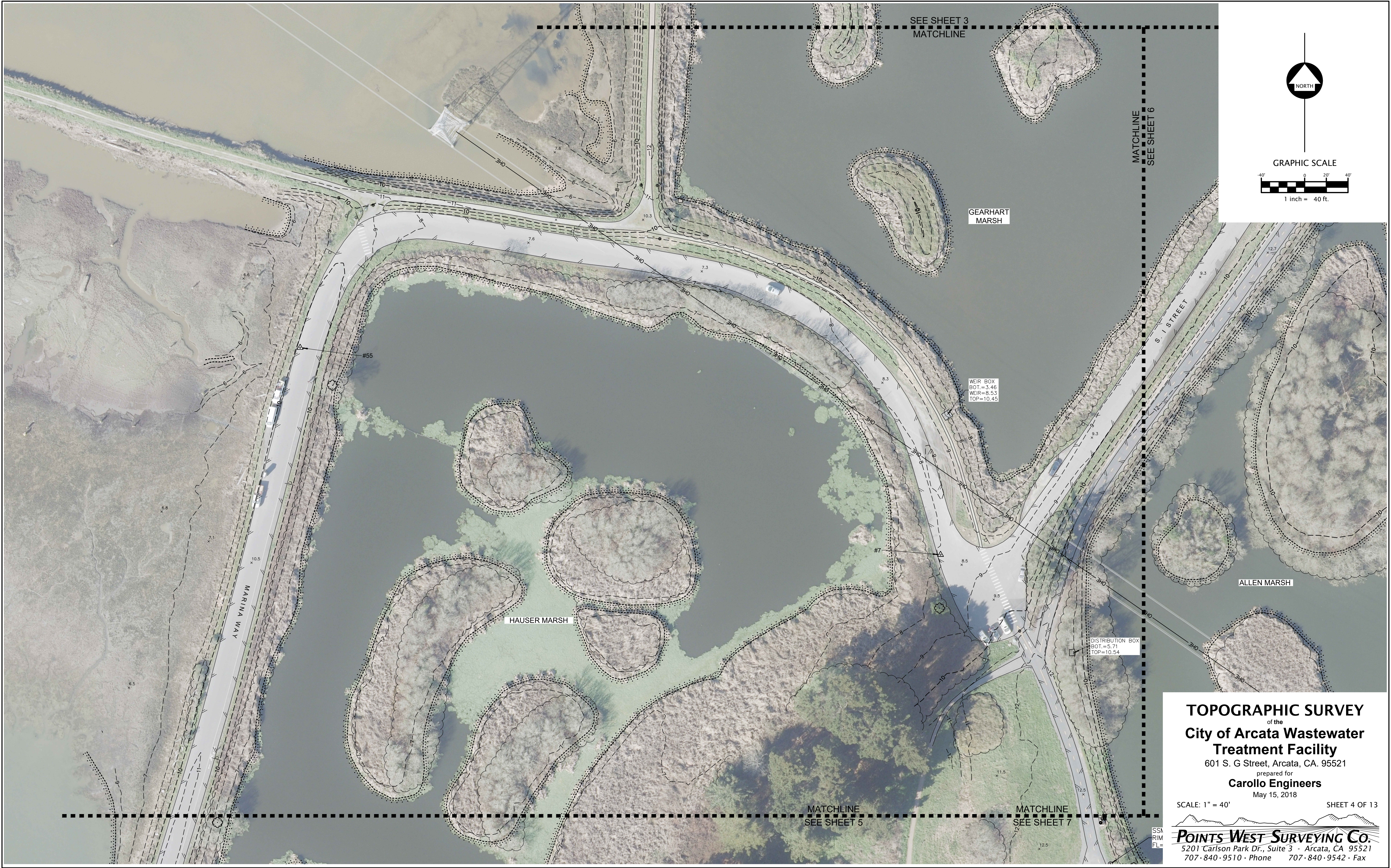


TOPOGRAPHIC SURVEY
of the
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601 S. G Street, Arcata, CA. 95521
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May 15, 2018

SCALE: 1" = 40' SHEET 2 OF 13

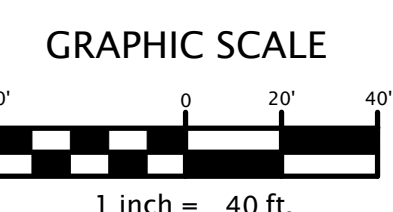
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SEE SHEET 3
MATCHLINE

MATCHLINE
SEE SHEET 6



GEARHART
MARSH

WEIR BOX
BOT.=3.46
WEIR=8.53
TOP=10.45

HAUSER MARSH

ALLEN MARSH

DISTRIBUTION BOX
BOT.=5.71
TOP=10.54

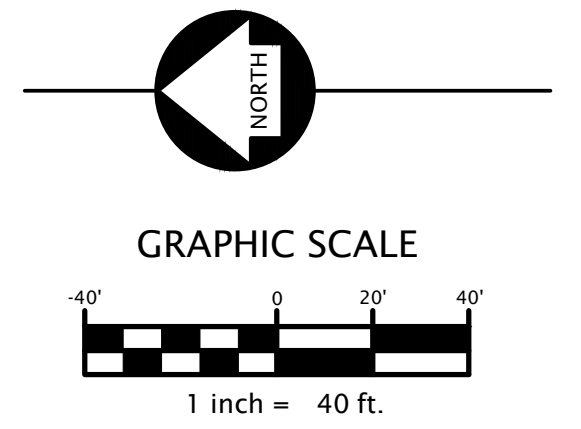
MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 7

TOPOGRAPHIC SURVEY
of the
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Treatment Facility**
601 S. G Street, Arcata, CA. 95521
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May 15, 2018

SCALE: 1" = 40' SHEET 4 OF 13

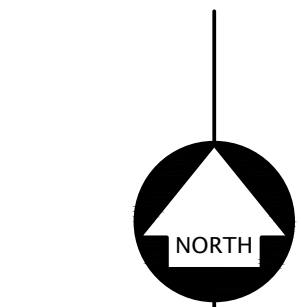
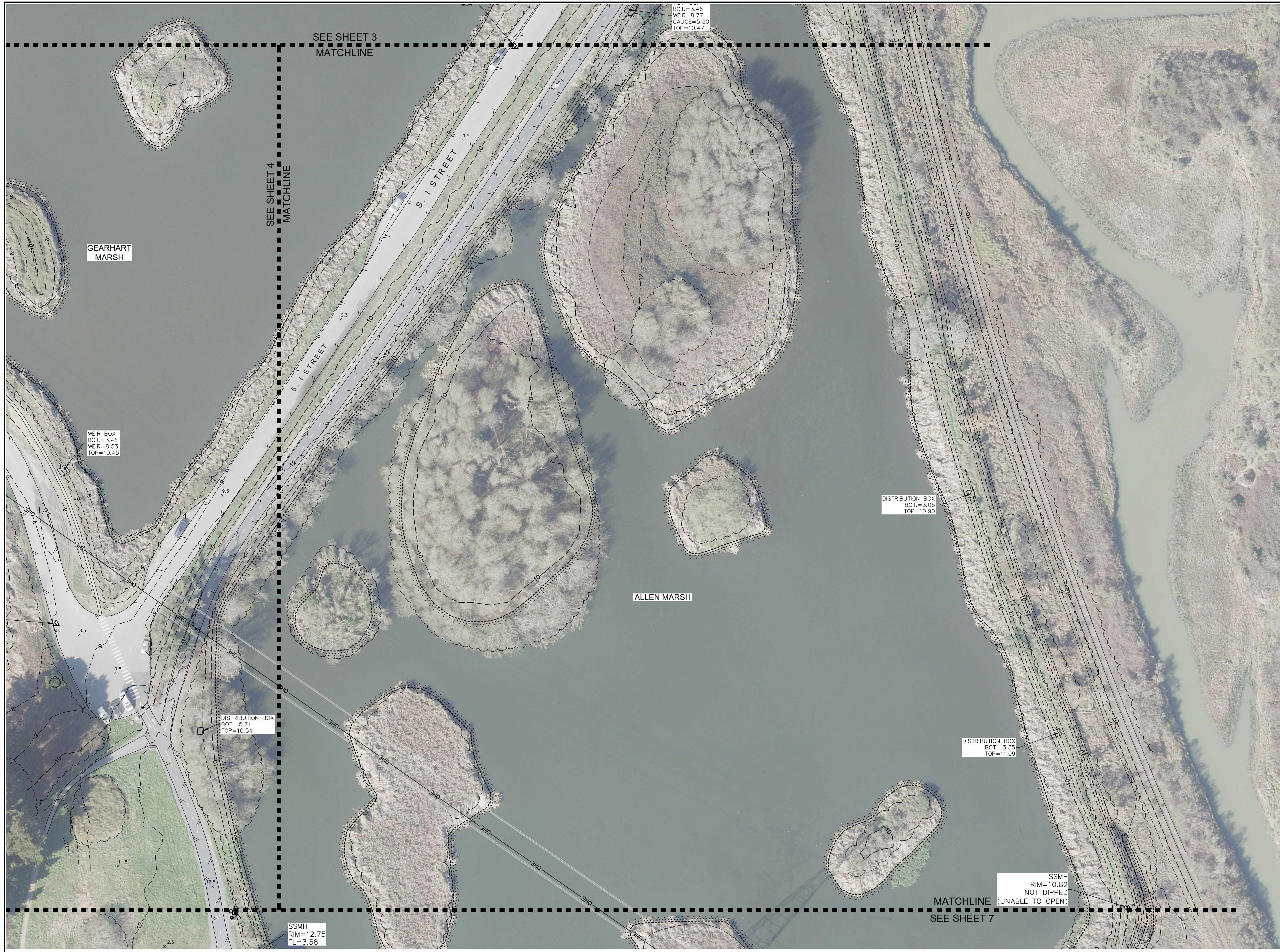
POINTS WEST SURVEYING CO.
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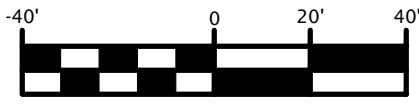
TOPOGRAPHIC SURVEY
of the
**City of Arcata Wastewater
Treatment Facility**
601 S. G Street, Arcata, CA. 95521
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May 15, 2018

SCALE: 1" = 40' SHEET 5 OF 13

POINTS WEST SURVEYING CO.
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GRAPHIC SCALE



1 inch = 40 ft.

TOPOGRAPHIC SURVEY

of the
**City of Arcata Wastewater
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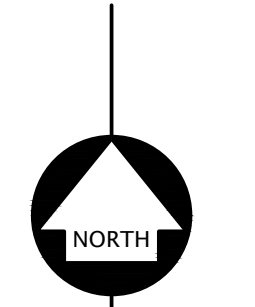
prepared for
Carollo Engineers

May 15, 2018

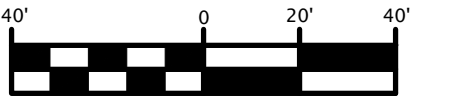
SCALE: 1" = 40'

SHEET 6 OF 13

POINTS WEST SURVEYING Co.
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GRAPHIC SCALE



1 inch = 40 ft.
17"x11" PRINTS ARE 1/2 SCALE

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May 15, 2018

SCALE: 1" = 40' SHEET 7 OF 13

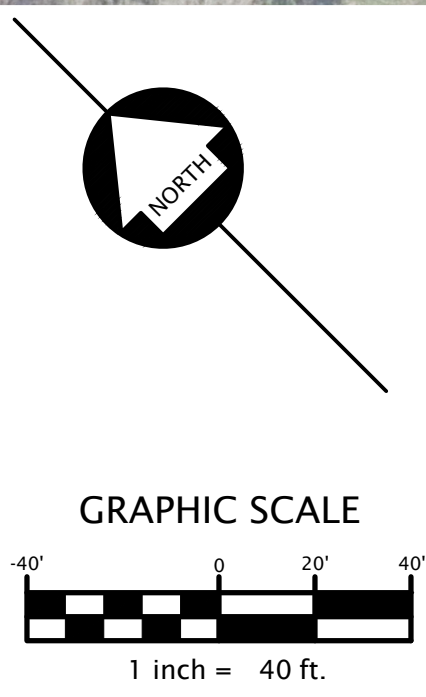
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SEE SHEET 7
MATCHLINE

MATCHLINE
SEE SHEET 10

MATCHLINE
SEE SHEET 9



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May 15, 2018

SCALE: 1" = 40' SHEET 8 OF 13
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TOPOGRAPHIC SURVEY

of the
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Treatment Facility**

601 S. G Street, Arcata, CA. 95521

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Carollo Engineers

May 15, 2018

SCALE: 1" = 40'

SHEET 9 OF 13

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SEE SHEET 8
MATCHLINE

SEE SHEET 9
MATCHLINE

MARSH 5 & 6
PUMP STATION
TOP=11.73
BOT.=3.13

BUI.=4.42
WEIR=7.14
TOP=10.78

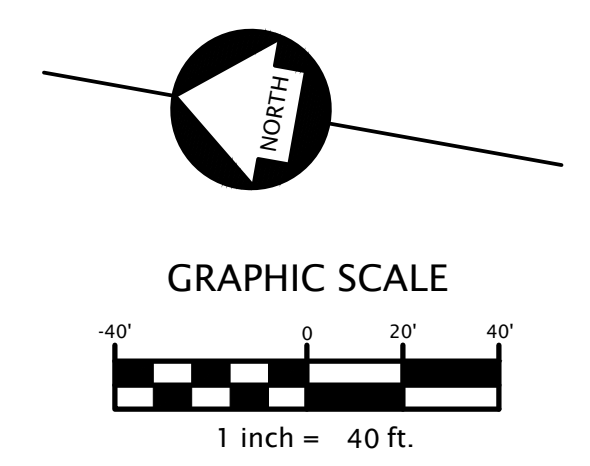
TREATMENT
MARSH #6

TRANSFER STRUCTURE
BOT.=3.97
WEIR=8.02
GAUGE=5.06
TOP=10.78

FUT. MARSH #7

MATCHLINE
SEE SHEET 11

Humboldt Bay



TOPOGRAPHIC SURVEY
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May 15, 2018

SCALE: 1" = 40' SHEET 10 OF 13

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SEE SHEET 13
MATCHLINE

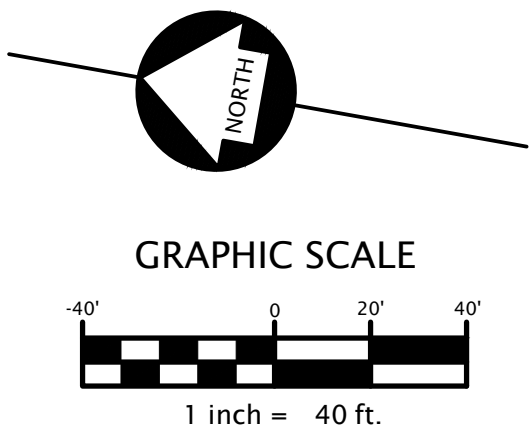
MATCHLINE
SEE SHEET 11

SEE SHEET 9
MATCHLINE

OXIDATION POND
#2

OXIDATION POND
#1

BOAT BARN



TOPOGRAPHIC SURVEY

of the
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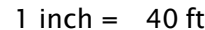
prepared for
Carollo Engineers

May 15, 2018

SCALE: 1" = 40'

SHEET 12 OF 13

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of the

601 S. G Street, Arcata, CA. 95521

SCALE: 1" = 40'

SHEET 13 OF 13

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OXIDATION POND
#2

SEE SHEET 9
MATCHLINE

MATCHLINE
■ ■ ■ ■ ■ ■ ■ ■
SEE SHEET 12