



COUNTY OF ORANGE
OC PUBLIC WORKS DEPARTMENT
SANTA ANA, CALIFORNIA
SHANE L. SILSBY, DIRECTOR

2020
SCOUR STUDY

Prepared by:
OC SURVEY

KEVIN HILLS, COUNTY SURVEYOR
FIELD UNIT – BOUNDARY ANALYSIS & MAPPING

ORANGE COUNTY BOARD OF SUPERVISORS

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2020
ANNUAL SCOUR STUDY

SAN DIEGO CREEK CHANNEL (F05) BASIN 3

MAXIMUM CAPACITY OF BASIN 3

STATION 100+00 TO 135+00

AS-BUILT PLANS:

F05-101-6A

STA. 100+00 TO 135+00

PURPOSE OF SURVEY: Survey was performed as a post-removal measure on February 27, 2020 within the limits of the Maximum Capacity. This survey was not intended to be a full scour survey of Basin III

NOTE: As-Built plans were used for left side of the basin, the right side of the template was modified based on the San Diego Creek 2004 Emergency Repair Agreement whereas, a 40' Wildlife Corridor was established on the right side of the channel

VERTICAL DATUM

NGVD 1929 Mean Sea Level / 1995 O.C.S. Vertical Adjustment

Office Check by:	Wade Weaver, PLS, Deputy County Surveyor
	Michael LaFontaine, PLS, Senior Land Surveyor
Filed Data Provided by:	OC Survey - Field Services
Survey Party Chief:	Roy Macias, PLS, Surveyor III
Computer processing done by:	Hanna Aftim, Surveyor III

COUNTY of ORANGE
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2020 SCOURS STUDY (MAX. CAPACITY BASIN TEMPLATE) - VOLUME REPORT

SAN DIEGO CREEK (F05) BASIN # 3, STATION 100+00 to 135+00

Date of Survey February 2020

ALIGNMENT: CENTERLINE ALIGNMENT REACH 1

SURFACE 1: SAN DIEGO CREEK SCOURS BASIN 3 EG (2020 Ground)

SURFACE 2: F05B3-10 MAX CAP (2006 MAX CAP Basin #3 Template)

BASILINE STATION NUMBER	STATION CUT AREA	STATION CUT VOLUME	STATION FILL AREA	STATION FILL VOLUME	MASS ORDINATE VOLUME
100+00	0.00	0.00	0.00	0.00	0.00
101+00	0.00	0.00	0.00	0.00	0.00
102+00	0.00	0.00	0.00	0.00	0.00
103+00	0.00	0.00	0.00	0.00	0.00
104+00	0.00	0.00	0.00	0.00	0.00
105+00	559.86	1036.78	0.00	0.00	1036.78
106+00	451.94	1873.71	0.00	0.00	2910.49
107+00	353.61	1491.76	0.00	0.00	4402.25
108+00	388.98	1375.15	0.00	0.00	5777.41
109+00	363.00	1392.54	0.00	0.00	7169.95
110+00	388.68	1391.99	0.00	0.00	8561.94
111+00	280.40	1239.03	0.00	0.00	9800.97
112+00	248.51	979.46	0.00	0.00	10780.43
113+00	234.73	894.89	0.00	0.00	11675.32
114+00	210.44	817.99	0.00	0.00	12493.31
115+00	263.79	867.83	0.00	0.00	13361.14
116+00	253.31	946.61	0.00	0.00	14307.74
117+00	327.76	1059.98	0.00	0.00	15367.72
118+00	389.73	1306.52	0.00	0.00	16674.24
119+00	444.77	1523.00	0.00	0.00	18197.25
120+00	475.30	1682.44	0.00	0.00	19879.69
121+00	406.66	1612.81	0.00	0.00	21492.49
122+00	332.57	1352.57	0.00	0.00	22845.06

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2020 SCOURS STUDY (MAX. CAPACITY BASIN TEMPLATE) - VOLUME REPORT

SAN DIEGO CREEK (F05) BASIN # 3, STATION 100+00 to 135+00

Date of Survey February 2020

ALIGNMENT: CENTERLINE ALIGNMENT REACH 1

SURFACE 1: SAN DIEGO CREEK SCOURS BASIN 3 EG (2020 Ground)

SURFACE 2: F05B3-10 MAX CAP (2006 MAX CAP Basin #3 Template)

BASILINE STATION NUMBER	STATION CUT AREA	STATION CUT VOLUME	STATION FILL AREA	STATION FILL VOLUME	MASS ORDINATE VOLUME
123+00	373.94	1295.15	0.00	0.00	24140.21
124+00	367.89	1364.17	0.00	0.00	25504.38
125+00	366.88	1356.49	0.00	0.00	26860.87
126+00	609.23	1800.60	0.00	0.00	28661.48
127+00	731.50	2468.59	0.00	0.00	31130.07
128+00	755.79	2736.45	0.00	0.00	33866.52
129+00	713.49	2703.37	0.00	0.00	36569.89
130+00	603.85	2426.24	0.00	0.00	38996.13
131+00	643.65	2299.80	0.00	0.00	41295.93
132+00	0.00	1186.53	0.00	0.00	42482.46
133+00	0.00	0.00	0.00	0.00	42482.46
134+00	0.00	0.00	0.00	0.00	42482.46
135+00	0.00	0.00	0.00	0.00	42482.46

CUT: 42,482 Cu. Yds.

FILL: 0 Cu. Yds

NET: 42,482 Cu. Yds.

Note: No fill volumes due post sediment removal within Maximum Capacity Limits.

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2020 SCOURS STUDY – % MAX. CAPACITY BASIN TEMPLATE
VOLUME REPORT (FEBRUARY 2020)

SAN DIEGO CREEK (F05) BASIN # 3, STATION 100+00 to 135+00

STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME	% of CAPACITY
100+00	0.00	0.00	0.00	0.00	0.00%
101+00	0.00	0.00	0.00	0.00	0.00%
102+00	0.00	0.00	0.00	0.00	0.00%
103+00	0.00	0.00	0.00	0.00	0.00%
104+00	0.00	0.00	0.00	0.00	0.00%
105+00	559.86	1036.78	905.20	1676.30	61.85%
106+00	451.94	1873.71	869.31	3286.13	57.02%
107+00	353.61	1491.76	884.37	3247.55	45.93%
108+00	388.98	1375.15	906.00	3315.50	41.48%
109+00	363.00	1392.54	909.24	3361.56	41.43%
110+00	388.68	1391.99	859.99	3276.36	42.49%
111+00	280.40	1239.03	904.03	3266.71	37.93%
112+00	248.51	979.46	890.80	3323.75	29.47%
113+00	234.73	894.89	886.51	3291.31	27.19%
114+00	210.44	817.99	885.14	3280.84	24.93%
115+00	263.79	867.83	878.73	3266.43	26.57%
116+00	253.31	946.61	884.43	3265.11	28.99%
117+00	327.76	1059.98	897.33	3299.55	32.12%
118+00	389.73	1306.52	909.33	3345.67	39.05%
119+00	444.77	1523.00	923.82	3394.73	44.86%
120+00	475.30	1682.44	976.93	3519.90	47.80%
121+00	406.66	1612.81	937.10	3544.50	45.50%
122+00	332.57	1352.57	906.05	3413.25	39.63%

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VOLUME REPORT (FEBRUARY 2020)

SAN DIEGO CREEK (F05) BASIN # 3, STATION 100+00 to 135+00

123+00	373.94	1295.15	937.85	3414.63	37.93%
124+00	367.89	1364.17	974.71	3541.77	38.52%
125+00	366.88	1356.49	947.97	3560.51	38.10%
126+00	609.23	1800.60	958.62	3530.72	51.00%
127+00	731.50	2468.59	1039.40	3700.03	66.72%
128+00	755.79	2736.45	999.57	3775.87	72.47%
129+00	713.49	2703.37	1014.08	3728.99	72.50%
130+00	603.85	2426.24	1065.82	3851.66	62.99%
131+00	643.65	2299.80	1039.52	3898.77	58.99%
132+00	0.00	1186.53	0.00	1922.00	61.73%
133+00	0.00	0.00	0.00	0.00	0.00%
134+00	0.00	0.00	0.00	0.00	0.00%
135+00	0.00	0.00	0.00	0.00	0.00%
		TOTAL CUT VOLUME		MAX. CAPACITY BASIN 3 VOLUME	TOTAL % OF CAPACITY
	Cubic Yards	42,482	Cubic Yards	93,300	45.53%

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
100+00	96.87	8.74
100+00	85.54	7.25
100+00	54.04	6.01
100+00	47.76	7.69
100+00	38.93	8.15
100+00	23.11	8.65
100+00	8.16	8.80
100+00	-8.21	8.66
100+00	-26.62	8.25
100+00	-43.37	8.20
100+00	-58.55	9.42
100+00	-77.35	9.35
100+00	-94.50	9.41
100+00	-112.62	9.68
100+00	-128.02	9.63
101+00	94.17	11.56
101+00	86.29	11.38
101+00	75.42	11.09
101+00	68.53	8.61
101+00	62.35	7.67
101+00	51.21	7.52
101+00	41.24	7.12
101+00	30.43	8.82
101+00	19.99	8.05
101+00	10.94	8.77
101+00	2.54	9.38
101+00	-3.94	8.44
101+00	-11.93	7.79
101+00	-21.66	7.73
101+00	-30.70	7.82
101+00	-38.92	8.64
101+00	-48.00	8.94
101+00	-56.32	9.10
101+00	-67.01	9.19
101+00	-76.98	10.09
101+00	-86.26	9.99
101+00	-96.12	9.75
101+00	-106.20	9.99
101+00	-117.15	10.03

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
101+00	-128.72	10.41
102+00	96.57	10.27
102+00	84.48	10.61
102+00	73.04	10.31
102+00	58.46	10.90
102+00	42.44	10.26
102+00	32.11	8.25
102+00	19.06	6.31
102+00	8.35	6.64
102+00	-1.61	8.07
102+00	-15.24	7.03
102+00	-28.28	7.52
102+00	-42.16	8.04
102+00	-57.59	8.55
102+00	-73.45	9.02
102+00	-88.11	9.32
102+00	-103.23	9.81
102+00	-117.19	10.33
102+00	-128.58	10.56
103+00	98.19	10.67
103+00	85.11	11.26
103+00	71.69	10.27
103+00	58.26	10.62
103+00	46.00	9.29
103+00	33.99	10.36
103+00	24.71	8.92
103+00	12.57	8.94
103+00	1.65	7.86
103+00	-9.31	7.67
103+00	-20.24	8.39
103+00	-35.16	7.96
103+00	-47.54	8.22
103+00	-59.90	8.44
103+00	-72.32	8.66
103+00	-85.75	9.39
103+00	-99.98	10.19
103+00	-114.34	10.29
103+00	-128.29	9.64

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
104+00	101.13	12.82
104+00	85.90	11.45
104+00	70.56	10.78
104+00	56.05	11.63
104+00	43.92	11.02
104+00	29.56	10.34
104+00	18.33	10.21
104+00	10.87	10.31
104+00	7.45	11.12
104+00	4.13	10.97
104+00	-1.50	7.24
104+00	-6.99	7.23
104+00	-12.56	11.18
104+00	-27.50	11.34
104+00	-40.64	11.40
104+00	-55.20	11.42
104+00	-70.19	11.48
104+00	-85.16	11.51
104+00	-100.02	11.52
104+00	-113.82	11.55
104+00	-123.03	11.53
104+00	-124.41	11.20
105+00	100.90	13.52
105+00	82.14	12.55
105+00	64.98	12.36
105+00	45.61	11.58
105+00	32.89	8.47
105+00	22.19	7.05
105+00	7.69	8.18
105+00	-6.71	8.12
105+00	-22.54	8.56
105+00	-35.43	8.99
105+00	-52.76	9.21
105+00	-69.22	9.69
105+00	-87.40	10.32
105+00	-106.41	10.73
105+00	-127.07	10.94

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
106+00	88.65	13.33
106+00	73.09	12.32
106+00	61.02	10.78
106+00	60.88	10.63
106+00	59.75	8.66
106+00	59.05	8.42
106+00	46.35	5.42
106+00	33.42	7.42
106+00	24.81	8.26
106+00	12.33	7.38
106+00	-1.57	8.20
106+00	-15.08	8.46
106+00	-28.86	8.54
106+00	-43.09	9.00
106+00	-55.17	9.18
106+00	-68.24	10.56
106+00	-81.54	10.94
106+00	-95.70	10.49
106+00	-108.99	9.78
106+00	-123.59	10.41
107+00	93.67	11.44
107+00	83.02	11.83
107+00	79.29	9.55
107+00	70.72	7.37
107+00	61.46	6.50
107+00	49.93	6.40
107+00	42.31	7.03
107+00	29.46	7.49
107+00	15.48	8.27
107+00	-2.83	8.47
107+00	-19.03	8.18
107+00	-34.38	8.36
107+00	-50.29	9.02
107+00	-67.46	10.61
107+00	-87.89	10.88
107+00	-106.49	10.77
107+00	-125.24	11.09
108+00	95.89	11.51

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
108+00	84.64	11.06
108+00	82.54	9.99
108+00	79.30	8.70
108+00	76.91	8.06
108+00	70.65	6.40
108+00	68.72	6.22
108+00	64.82	5.89
108+00	58.32	6.33
108+00	48.75	6.91
108+00	37.07	7.81
108+00	26.59	7.77
108+00	22.43	7.12
108+00	17.04	8.30
108+00	6.79	8.12
108+00	-8.17	8.49
108+00	-22.34	8.60
108+00	-35.92	8.68
108+00	-46.97	9.61
108+00	-56.83	10.59
108+00	-69.72	11.09
108+00	-83.29	11.00
108+00	-97.67	11.22
108+00	-110.94	11.10
108+00	-126.01	11.26
109+00	95.95	11.41
109+00	85.09	10.21
109+00	75.61	7.76
109+00	69.44	6.03
109+00	62.69	6.71
109+00	49.73	6.92
109+00	37.12	7.46
109+00	20.06	7.40
109+00	2.19	7.65
109+00	-15.05	7.80
109+00	-29.94	8.65
109+00	-46.98	8.93
109+00	-53.69	9.20
109+00	-55.08	10.28
109+00	-65.81	11.23

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
109+00	-86.01	11.76
109+00	-105.58	11.94
109+00	-126.26	11.82
110+00	93.92	12.89
110+00	83.06	12.98
110+00	77.23	8.42
110+00	66.68	7.00
110+00	51.76	7.63
110+00	34.33	7.48
110+00	20.10	7.84
110+00	4.40	7.80
110+00	-10.71	8.00
110+00	-23.91	8.65
110+00	-39.30	9.43
110+00	-54.58	10.60
110+00	-75.91	11.11
110+00	-94.02	11.33
110+00	-110.43	11.50
110+00	-127.49	11.51
111+00	94.94	12.39
111+00	82.66	13.08
111+00	79.64	9.20
111+00	65.56	6.60
111+00	58.66	7.21
111+00	46.70	6.97
111+00	36.21	6.64
111+00	24.19	6.83
111+00	12.18	7.15
111+00	0.53	7.22
111+00	-11.37	7.36
111+00	-24.46	8.72
111+00	-36.77	9.47
111+00	-48.63	9.10
111+00	-60.26	9.60
111+00	-76.85	9.84
111+00	-90.01	9.87
111+00	-95.67	11.41
111+00	-103.26	12.06

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
111+00	-117.39	12.41
111+00	-129.83	12.37
112+00	94.57	13.07
112+00	78.45	11.87
112+00	74.54	8.61
112+00	60.10	6.17
112+00	49.78	6.75
112+00	40.42	6.21
112+00	28.36	6.84
112+00	15.15	7.25
112+00	1.60	7.38
112+00	-11.92	8.31
112+00	-27.35	8.85
112+00	-36.72	9.80
112+00	-40.54	8.26
112+00	-53.85	8.46
112+00	-67.01	9.36
112+00	-78.14	8.88
112+00	-88.96	9.64
112+00	-96.17	11.29
112+00	-110.27	11.93
112+00	-123.41	12.60
112+00	-133.58	13.27
113+00	94.92	13.87
113+00	81.98	13.45
113+00	76.14	9.63
113+00	75.57	9.23
113+00	72.90	8.31
113+00	63.05	5.68
113+00	61.25	5.51
113+00	54.97	6.44
113+00	43.40	5.93
113+00	30.58	6.84
113+00	17.35	7.15
113+00	4.67	7.15
113+00	-8.92	7.63
113+00	-21.71	8.81
113+00	-27.80	9.84

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
113+00	-40.86	8.92
113+00	-53.25	8.66
113+00	-65.45	9.24
113+00	-77.18	7.84
113+00	-89.27	9.37
113+00	-98.16	11.94
113+00	-109.46	12.35
113+00	-125.08	13.16
113+00	-140.67	14.24
114+00	94.38	14.34
114+00	80.25	14.44
114+00	70.68	8.98
114+00	67.47	8.03
114+00	59.90	5.92
114+00	47.58	6.22
114+00	35.67	6.69
114+00	23.23	6.56
114+00	10.15	6.02
114+00	0.53	7.35
114+00	-14.32	8.20
114+00	-26.58	8.91
114+00	-32.30	9.73
114+00	-38.03	8.55
114+00	-48.23	7.97
114+00	-60.55	8.55
114+00	-72.55	9.14
114+00	-88.20	9.45
114+00	-98.50	12.06
114+00	-113.90	13.40
114+00	-127.69	14.81
114+00	-145.27	16.33
115+00	93.43	15.46
115+00	81.13	14.64
115+00	73.79	10.11
115+00	65.75	7.54
115+00	64.48	6.18
115+00	62.24	5.98
115+00	53.30	6.51

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
115+00	41.57	7.64
115+00	30.11	6.08
115+00	16.95	7.14
115+00	5.32	6.93
115+00	-6.63	7.34
115+00	-23.08	9.50
115+00	-35.81	9.81
115+00	-48.99	9.46
115+00	-62.38	9.34
115+00	-74.73	8.68
115+00	-86.49	9.34
115+00	-96.74	12.35
115+00	-112.89	13.65
115+00	-126.83	15.59
115+00	-141.07	16.56
116+00	93.19	15.73
116+00	75.83	14.10
116+00	58.59	7.52
116+00	47.04	6.14
116+00	34.97	6.76
116+00	23.67	7.22
116+00	10.28	7.47
116+00	-6.77	7.24
116+00	-17.03	8.76
116+00	-31.18	8.44
116+00	-44.56	8.41
116+00	-57.24	9.42
116+00	-71.12	9.57
116+00	-85.96	10.27
116+00	-98.02	12.18
116+00	-112.77	13.34
116+00	-120.96	14.36
116+00	-133.28	15.13
117+00	92.91	15.32
117+00	80.60	13.19
117+00	73.94	12.74
117+00	65.28	8.53
117+00	54.46	6.50

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
117+00	42.93	6.04
117+00	31.87	6.06
117+00	13.35	6.05
117+00	3.12	7.19
117+00	-10.80	7.72
117+00	-25.24	8.96
117+00	-33.01	10.40
117+00	-49.69	10.81
117+00	-64.84	11.16
117+00	-80.35	11.90
117+00	-95.49	11.70
117+00	-111.64	12.07
117+00	-126.24	12.58
118+00	94.86	15.49
118+00	85.48	14.68
118+00	75.10	13.50
118+00	63.29	8.90
118+00	54.65	6.07
118+00	43.70	5.80
118+00	36.21	5.31
118+00	23.24	5.63
118+00	17.43	5.91
118+00	14.71	6.12
118+00	7.04	7.25
118+00	6.82	7.34
118+00	-4.31	7.73
118+00	-4.81	7.98
118+00	-6.87	9.83
118+00	-7.17	9.87
118+00	-22.73	10.48
118+00	-37.73	10.86
118+00	-52.66	11.14
118+00	-68.14	11.31
118+00	-83.45	11.93
118+00	-97.65	12.29
118+00	-109.50	12.07
118+00	-121.90	12.03
119+00	95.09	16.04

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
119+00	81.47	14.27
119+00	76.94	14.07
119+00	62.04	6.21
119+00	53.44	6.14
119+00	45.50	6.52
119+00	34.47	6.61
119+00	24.82	7.76
119+00	9.71	8.29
119+00	-1.52	8.36
119+00	-13.07	10.09
119+00	-30.75	10.48
119+00	-48.64	11.05
119+00	-67.22	11.65
119+00	-87.82	12.05
119+00	-106.82	12.34
119+00	-125.31	12.60
120+00	97.40	15.60
120+00	86.97	9.44
120+00	74.77	8.62
120+00	65.13	7.49
120+00	52.86	6.85
120+00	47.24	6.26
120+00	39.44	6.21
120+00	27.10	8.09
120+00	9.98	9.04
120+00	-10.31	10.05
120+00	-28.37	10.56
120+00	-48.24	10.77
120+00	-67.95	11.66
120+00	-87.04	12.15
120+00	-106.06	12.66
120+00	-125.65	12.79
121+00	87.94	10.84
121+00	71.95	10.93
121+00	68.96	9.16
121+00	61.17	6.51
121+00	47.80	7.15
121+00	32.13	6.78

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
121+00	17.51	8.06
121+00	2.80	8.02
121+00	-9.67	9.40
121+00	-24.35	8.87
121+00	-38.09	10.83
121+00	-55.60	11.04
121+00	-72.80	11.36
121+00	-90.74	12.37
121+00	-107.67	12.82
121+00	-125.41	13.01
122+00	88.62	9.96
122+00	83.20	10.91
122+00	70.29	10.00
122+00	65.07	8.29
122+00	60.17	7.11
122+00	48.28	7.62
122+00	36.54	6.52
122+00	23.73	7.46
122+00	11.64	8.38
122+00	-0.05	9.11
122+00	-6.46	9.97
122+00	-17.46	9.64
122+00	-30.59	9.48
122+00	-43.01	8.87
122+00	-55.74	9.10
122+00	-69.10	9.89
122+00	-83.33	10.95
122+00	-97.58	12.59
122+00	-111.93	13.07
122+00	-126.88	13.25
123+00	88.92	10.19
123+00	73.65	10.23
123+00	65.02	8.11
123+00	53.31	7.13
123+00	40.92	6.96
123+00	29.49	6.87
123+00	18.96	8.64
123+00	10.00	9.87

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
123+00	-4.22	9.77
123+00	-19.93	9.45
123+00	-32.57	9.26
123+00	-44.90	9.26
123+00	-60.64	9.83
123+00	-77.65	10.74
123+00	-92.24	12.02
123+00	-107.32	12.98
123+00	-126.00	13.12
124+00	92.10	8.59
124+00	79.54	7.75
124+00	60.23	7.57
124+00	45.62	9.12
124+00	30.55	8.11
124+00	12.63	8.95
124+00	-8.18	9.29
124+00	-27.11	9.22
124+00	-45.54	8.99
124+00	-66.95	9.66
124+00	-89.37	11.89
124+00	-111.63	12.68
124+00	-125.06	13.39
125+00	92.87	8.95
125+00	84.15	7.89
125+00	75.30	8.17
125+00	63.33	8.65
125+00	47.82	9.10
125+00	33.42	8.76
125+00	17.07	9.20
125+00	3.39	9.38
125+00	-9.97	9.10
125+00	-22.94	9.01
125+00	-34.92	8.65
125+00	-48.88	9.06
125+00	-62.26	10.08
125+00	-77.53	10.95
125+00	-92.03	12.58
125+00	-107.24	13.14

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
125+00	-122.40	13.52
126+00	90.55	8.38
126+00	82.59	8.13
126+00	68.30	8.74
126+00	51.44	9.51
126+00	32.45	10.57
126+00	11.37	10.99
126+00	-8.21	11.19
126+00	-28.42	11.21
126+00	-47.99	10.98
126+00	-67.23	11.58
126+00	-87.34	12.28
126+00	-106.60	13.04
126+00	-125.02	13.07
127+00	89.69	8.04
127+00	79.32	8.12
127+00	70.26	7.90
127+00	58.10	8.68
127+00	57.92	9.20
127+00	54.12	9.74
127+00	39.97	10.67
127+00	24.85	10.70
127+00	9.49	11.17
127+00	-5.40	11.49
127+00	-21.71	12.23
127+00	-38.39	12.04
127+00	-55.44	12.14
127+00	-72.69	12.32
127+00	-89.26	12.65
127+00	-104.35	13.18
127+00	-114.77	13.07
127+00	-125.16	13.05
128+00	91.86	8.52
128+00	82.05	8.05
128+00	72.78	8.67
128+00	61.76	9.54
128+00	49.14	10.49

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
128+00	35.78	10.69
128+00	25.02	12.29
128+00	13.59	11.89
128+00	2.23	11.51
128+00	-10.41	11.90
128+00	-23.29	11.75
128+00	-36.61	11.93
128+00	-51.55	12.35
128+00	-68.57	12.96
128+00	-82.23	12.72
128+00	-97.21	12.78
128+00	-112.27	13.13
128+00	-125.34	13.21
129+00	96.85	9.49
129+00	90.43	9.20
129+00	78.19	9.51
129+00	70.92	10.27
129+00	65.09	10.46
129+00	60.31	10.19
129+00	47.28	9.85
129+00	22.82	11.15
129+00	4.67	11.65
129+00	-13.35	12.26
129+00	-30.12	11.87
129+00	-30.44	11.96
129+00	-47.08	12.27
129+00	-64.37	11.79
129+00	-81.61	12.28
129+00	-98.95	12.66
129+00	-115.05	13.04
129+00	-129.63	13.30
130+00	92.81	9.31
130+00	83.91	9.15
130+00	75.54	9.53
130+00	70.31	11.45
130+00	63.47	9.74
130+00	49.38	10.00
130+00	36.16	10.24

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
130+00	22.75	10.39
130+00	9.40	10.14
130+00	-3.90	10.24
130+00	-16.66	10.86
130+00	-28.72	10.80
130+00	-41.68	11.00
130+00	-54.66	11.54
130+00	-67.40	11.15
130+00	-80.00	11.14
130+00	-86.29	11.68
130+00	-101.06	11.82
130+00	-119.06	12.77
131+00	84.04	9.19
131+00	74.89	9.51
131+00	62.92	10.33
131+00	47.81	11.04
131+00	34.04	10.75
131+00	18.42	10.47
131+00	2.39	10.85
131+00	-13.70	11.13
131+00	-29.40	11.54
131+00	-46.06	11.66
131+00	-62.44	11.70
131+00	-63.46	11.69
131+00	-79.34	10.83
131+00	-94.85	10.71
131+00	-98.99	11.74
131+00	-113.30	11.86
131+00	-120.24	12.14
132+00	79.56	10.51
132+00	73.23	10.01
132+00	60.59	10.83
132+00	60.26	10.89
132+00	53.83	12.40
132+00	39.98	10.71
132+00	26.55	10.93
132+00	12.50	11.16
132+00	7.91	8.75

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
132+00	1.30	8.36
132+00	-6.78	9.33
132+00	-16.14	10.09
132+00	-20.92	10.87
132+00	-25.30	12.33
132+00	-34.88	13.01
132+00	-50.32	11.55
132+00	-63.49	10.88
132+00	-77.33	11.32
132+00	-91.42	10.97
132+00	-99.01	11.86
132+00	-111.55	12.08
132+00	-123.26	12.60
133+00	87.99	12.25
133+00	75.73	11.65
133+00	61.28	12.11
133+00	46.06	12.07
133+00	34.09	11.75
133+00	18.92	11.06
133+00	4.93	11.15
133+00	-10.24	11.19
133+00	-23.69	11.30
133+00	-34.98	10.58
133+00	-49.32	11.21
133+00	-67.81	11.79
133+00	-84.93	12.45
133+00	-97.40	12.44
133+00	-109.98	12.63
133+00	-123.85	13.18
133+00	-127.19	13.84
134+00	88.21	12.21
134+00	79.79	11.29
134+00	65.15	11.18
134+00	49.80	10.52
134+00	32.96	10.52
134+00	17.49	10.48
134+00	4.06	10.95
134+00	-10.19	10.56

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

2020 GROUND DATA

STATION	OFFSET	ELEV.
134+00	-23.64	10.90
134+00	-40.24	10.46
134+00	-53.31	10.74
134+00	-67.84	10.94
134+00	-83.33	11.23
134+00	-91.01	11.72
134+00	-96.62	14.43
134+00	-112.79	15.21
134+00	-128.62	15.95
134+00	-140.04	17.79
135+00	74.95	10.95
135+00	62.68	10.40
135+00	50.82	11.04
135+00	37.19	10.50
135+00	23.63	10.01
135+00	12.72	10.84
135+00	1.00	11.02
135+00	-12.81	10.75
135+00	-25.57	10.77
135+00	-41.24	9.71
135+00	-52.79	8.61
135+00	-62.21	10.18
135+00	-73.44	11.02
135+00	-84.34	11.29
135+00	-94.78	12.23
135+00	-101.22	14.71
135+00	-114.14	15.66
135+00	-131.87	17.02

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

MAXIMUM CAPACITY PLAN TEMPLATE DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
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105+00	-96.95	11.48
105+00	-70.23	6.00
105+00	72.04	6.00
105+00	98.29	11.48

106+00	-96.41	11.48
106+00	-69.91	6.00
106+00	62.00	6.00
106+00	88.89	11.48

107+00	-96.41	11.56
107+00	-70.04	6.00
107+00	62.23	6.00
107+00	89.52	11.56

108+00	-96.40	11.64
108+00	-70.05	6.00
108+00	64.23	6.00
108+00	90.74	11.64

109+00	-96.40	11.72
109+00	-69.90	6.00
109+00	62.61	6.00
109+00	89.11	11.72

110+00	-96.39	11.80
110+00	-70.04	6.00
110+00	51.84	6.00
110+00	78.34	11.80

111+00	-96.39	11.88
111+00	-67.00	6.00
111+00	57.36	6.00
111+00	86.76	11.88

112+00	-96.38	11.96
112+00	-66.58	6.00
112+00	53.08	6.00
112+00	82.88	11.96

113+00	-96.37	12.04
113+00	-66.18	6.00
113+00	50.39	6.00
113+00	80.59	12.04

114+00	-96.37	12.12
114+00	-66.72	6.00
114+00	48.26	6.00
114+00	78.85	12.12

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

MAXIMUM CAPACITY PLAN TEMPLATE DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
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115+00	-96.35	12.20
115+00	-65.36	6.00
115+00	45.37	6.00
115+00	76.37	12.20

116+00	-96.33	12.28
116+00	-64.94	6.00
116+00	44.49	6.00
116+00	75.89	12.28

117+00	-96.32	12.36
117+00	-64.52	6.00
117+00	44.77	6.00
117+00	76.57	12.36

118+00	-96.28	12.44
118+00	-64.20	6.00
118+00	44.90	6.00
118+00	77.10	12.44

119+00	-96.28	12.52
119+00	-63.69	6.00
119+00	45.37	6.00
119+00	77.97	12.52

120+00	-96.27	12.60
120+00	-63.27	6.00
120+00	51.76	6.00
120+00	84.76	12.60

121+00	-96.26	12.68
121+00	-62.88	6.00
121+00	44.05	6.00
121+00	77.45	12.68

122+00	-96.25	12.76
122+00	-62.45	6.00
122+00	37.78	6.00
122+00	71.58	12.76

123+00	-96.24	12.84
123+00	-62.08	6.00
123+00	40.86	6.00
123+00	75.06	12.84

124+00	-91.23	12.92
124+00	-56.64	6.00
124+00	49.57	6.00
124+00	84.29	12.92

2020 SCOURS

SAN DIEGO CREEK (F05) BASIN # 3

MAXIMUM CAPACITY PLAN TEMPLATE DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
----------------	---------------	--------------

125+00	-86.23	13.00
125+00	-51.23	6.00
125+00	49.19	6.00
125+00	84.19	13.00

126+00	-91.20	13.08
126+00	-55.87	6.00
126+00	44.18	6.00
126+00	79.57	13.08

127+00	-96.20	13.16
127+00	-60.40	6.00
127+00	48.97	6.00
127+00	84.76	13.16

128+00	-96.20	13.24
128+00	-60.02	6.00
128+00	41.86	6.00
128+00	78.06	13.24

129+00	-96.20	13.32
129+00	-59.60	6.00
129+00	42.33	6.00
129+00	78.93	13.32

130+00	-96.19	13.40
130+00	-59.19	6.00
130+00	47.83	6.00
130+00	84.83	13.40

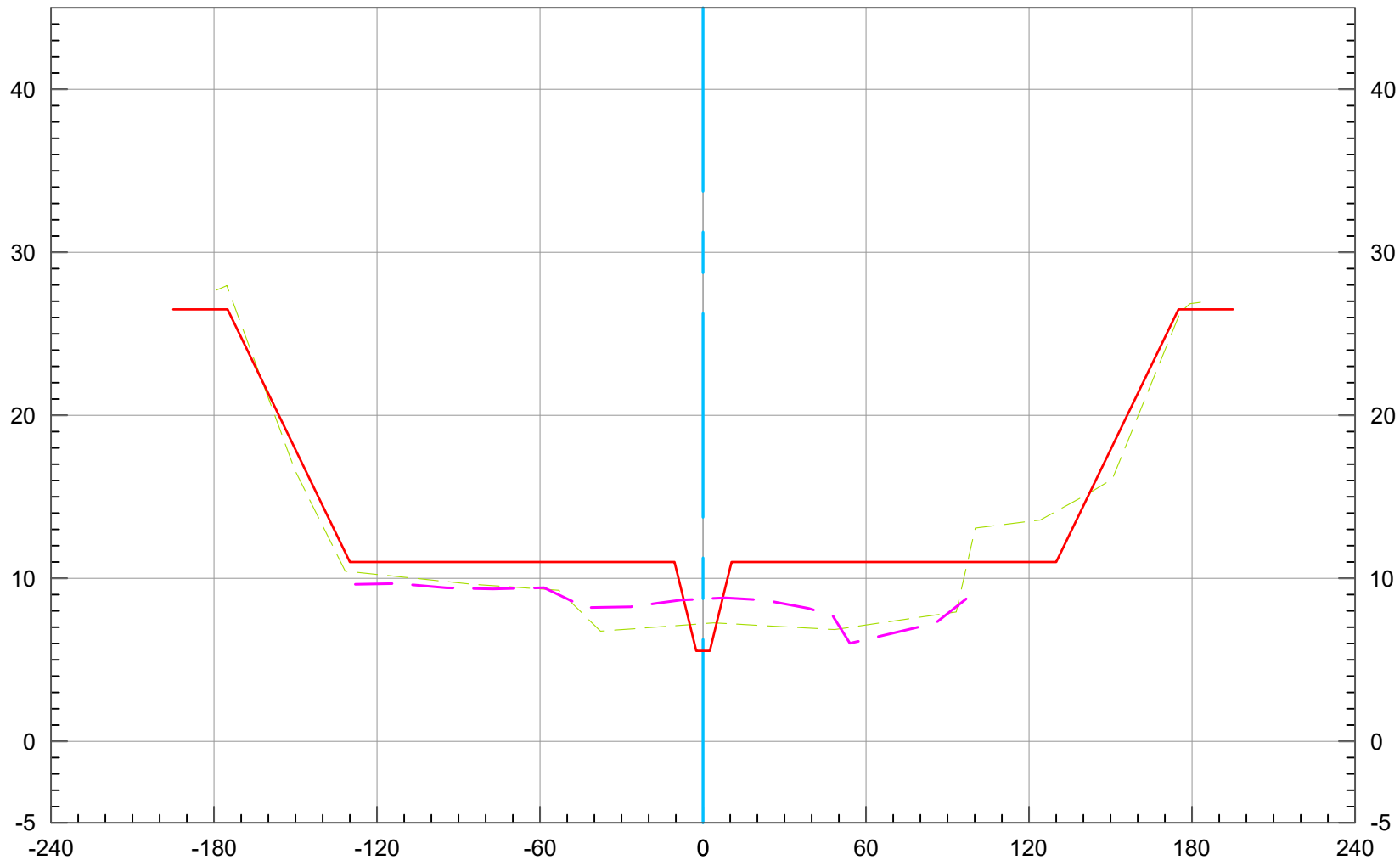
131+00	-96.19	13.48
131+00	-58.80	6.00
131+00	42.80	6.00
131+00	80.20	13.48

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



100+00

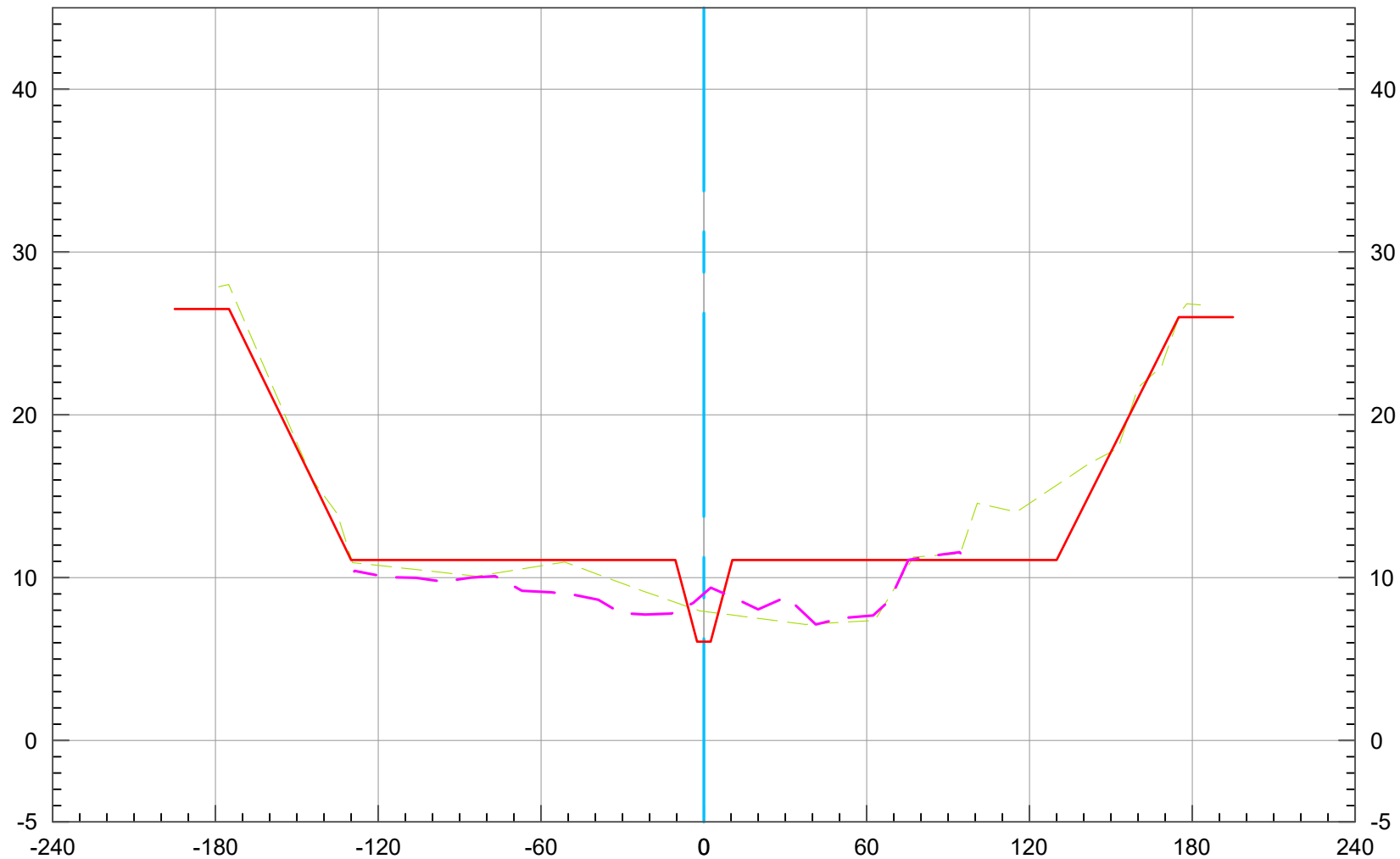
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Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



101+00

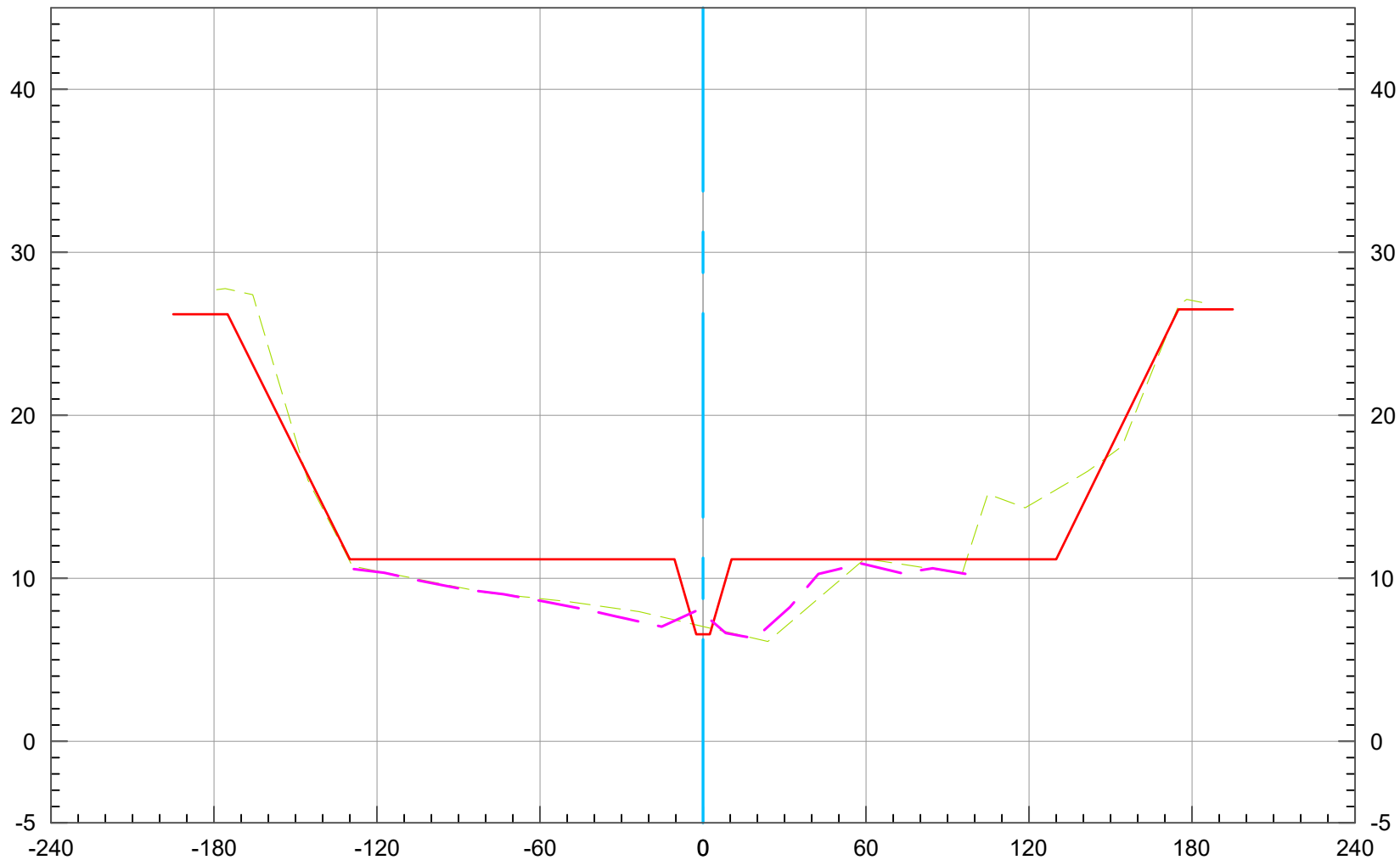
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. *Survey*
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



102+00

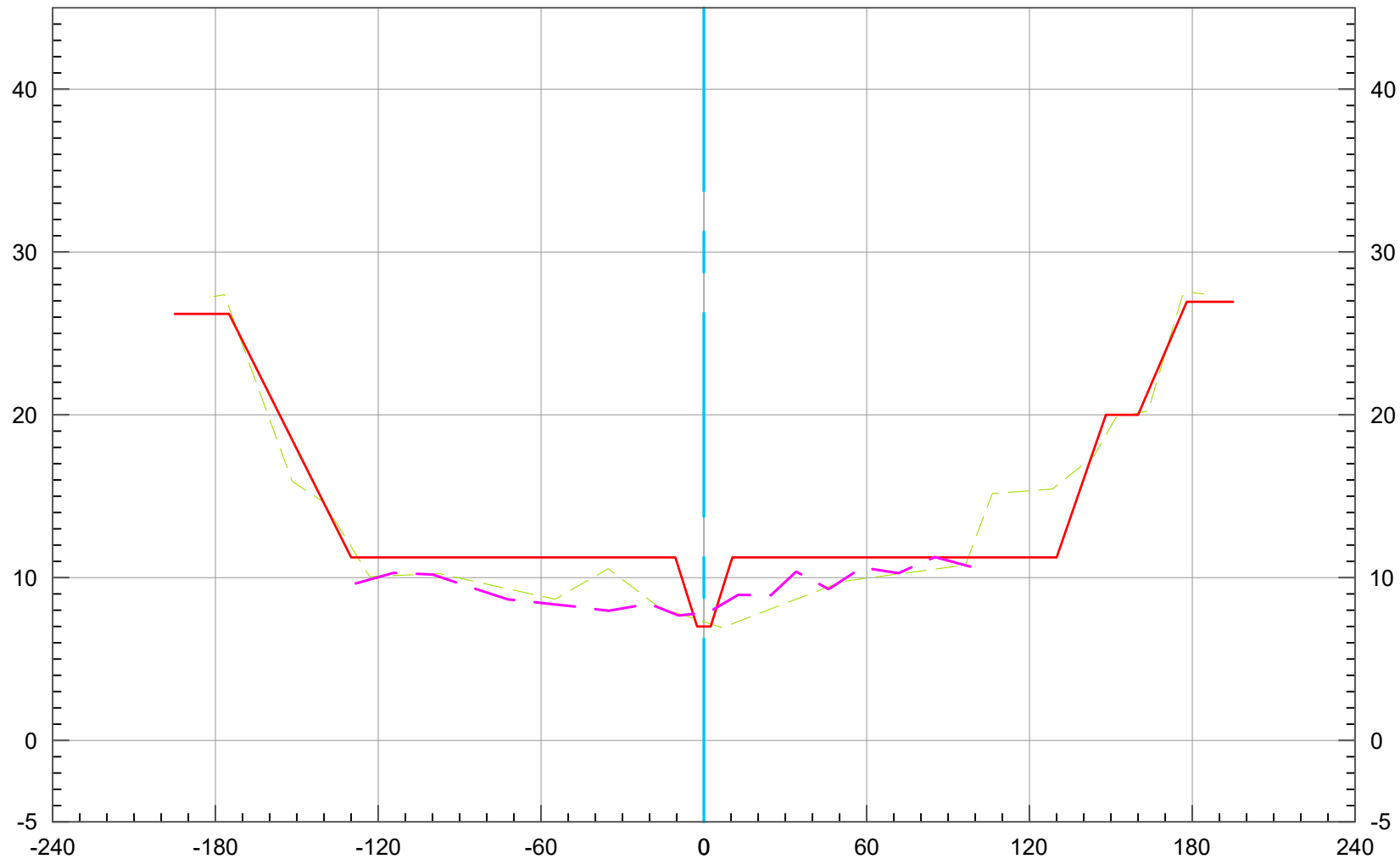
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Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



103+00

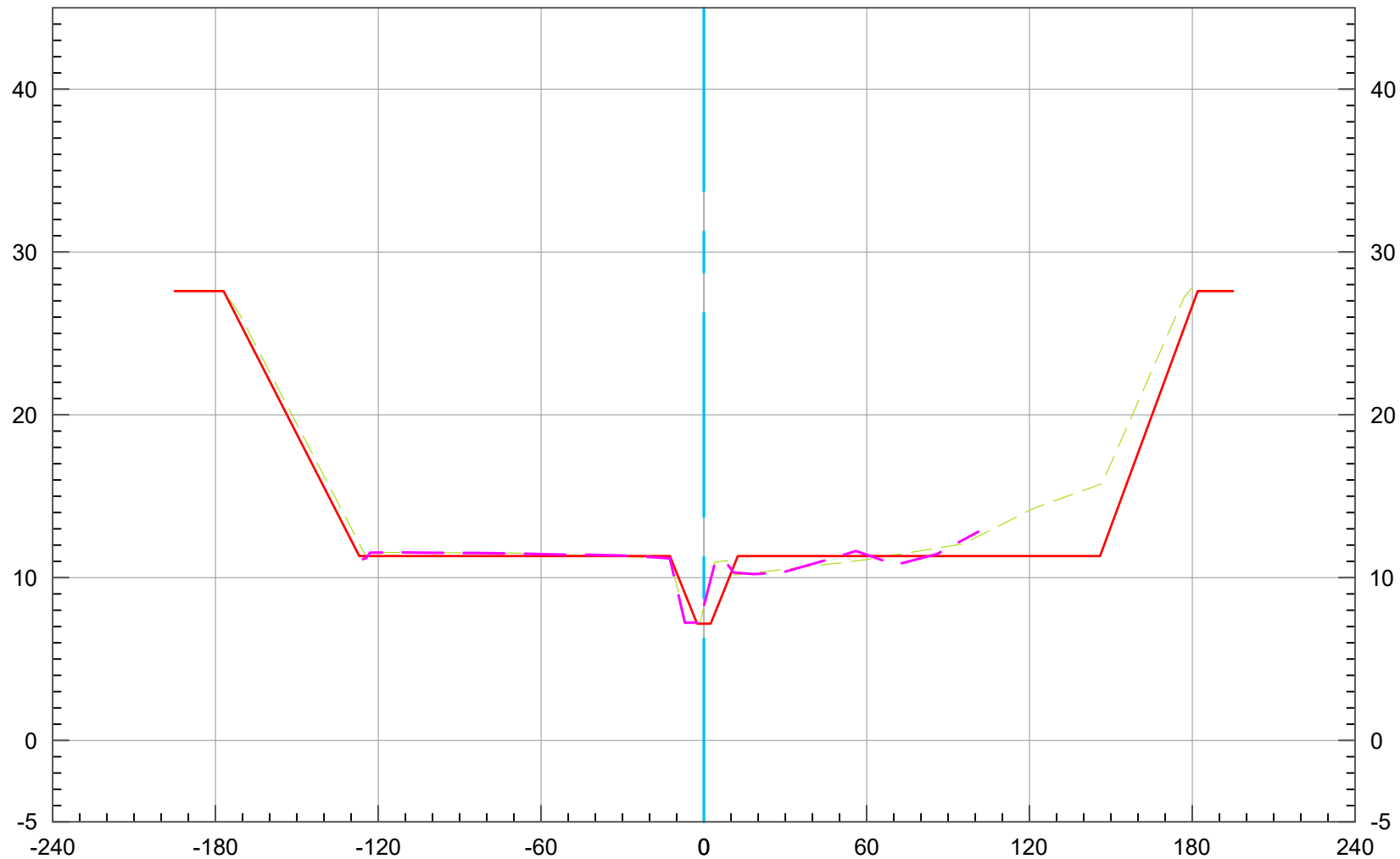
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



104+00

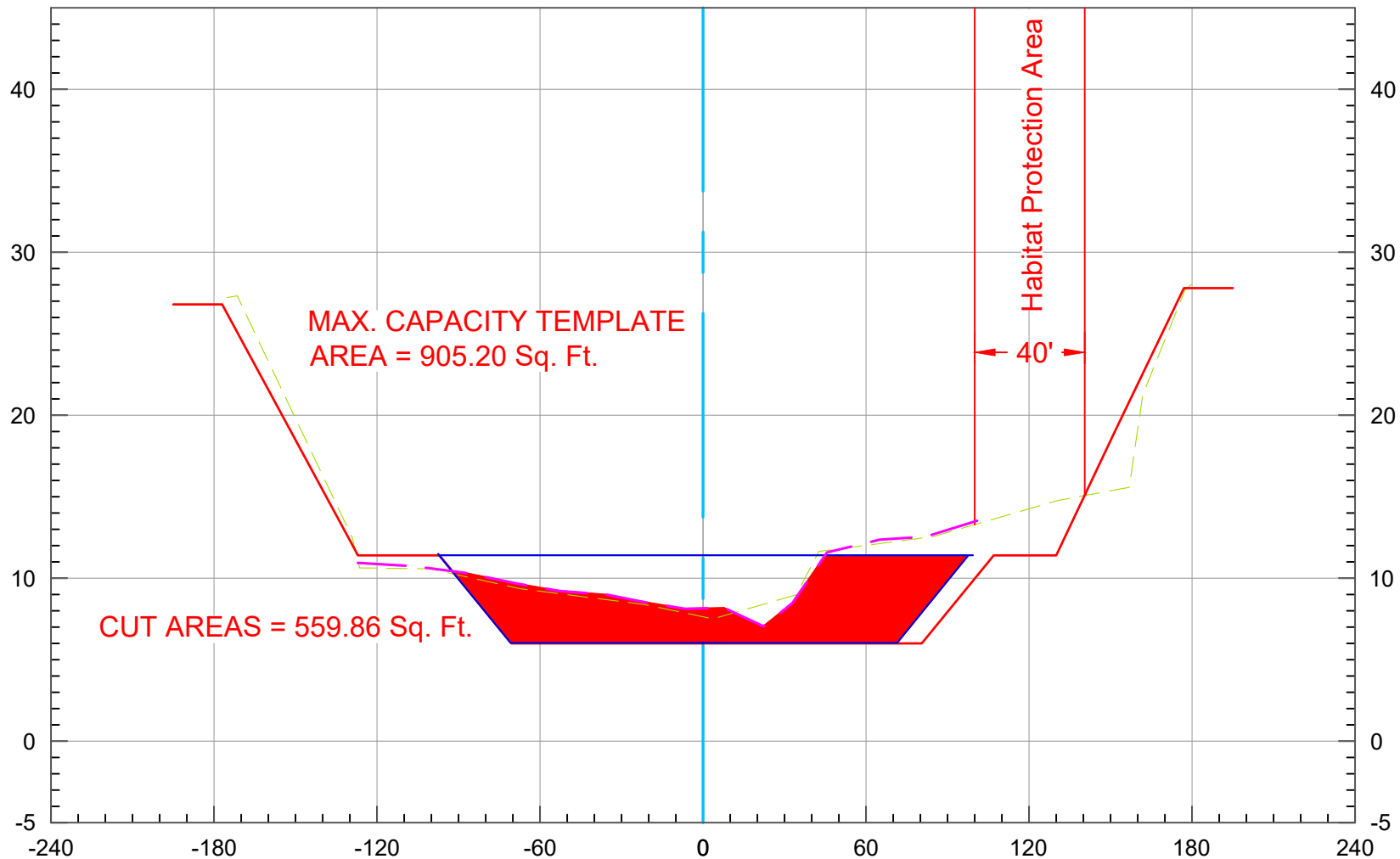
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

105+00

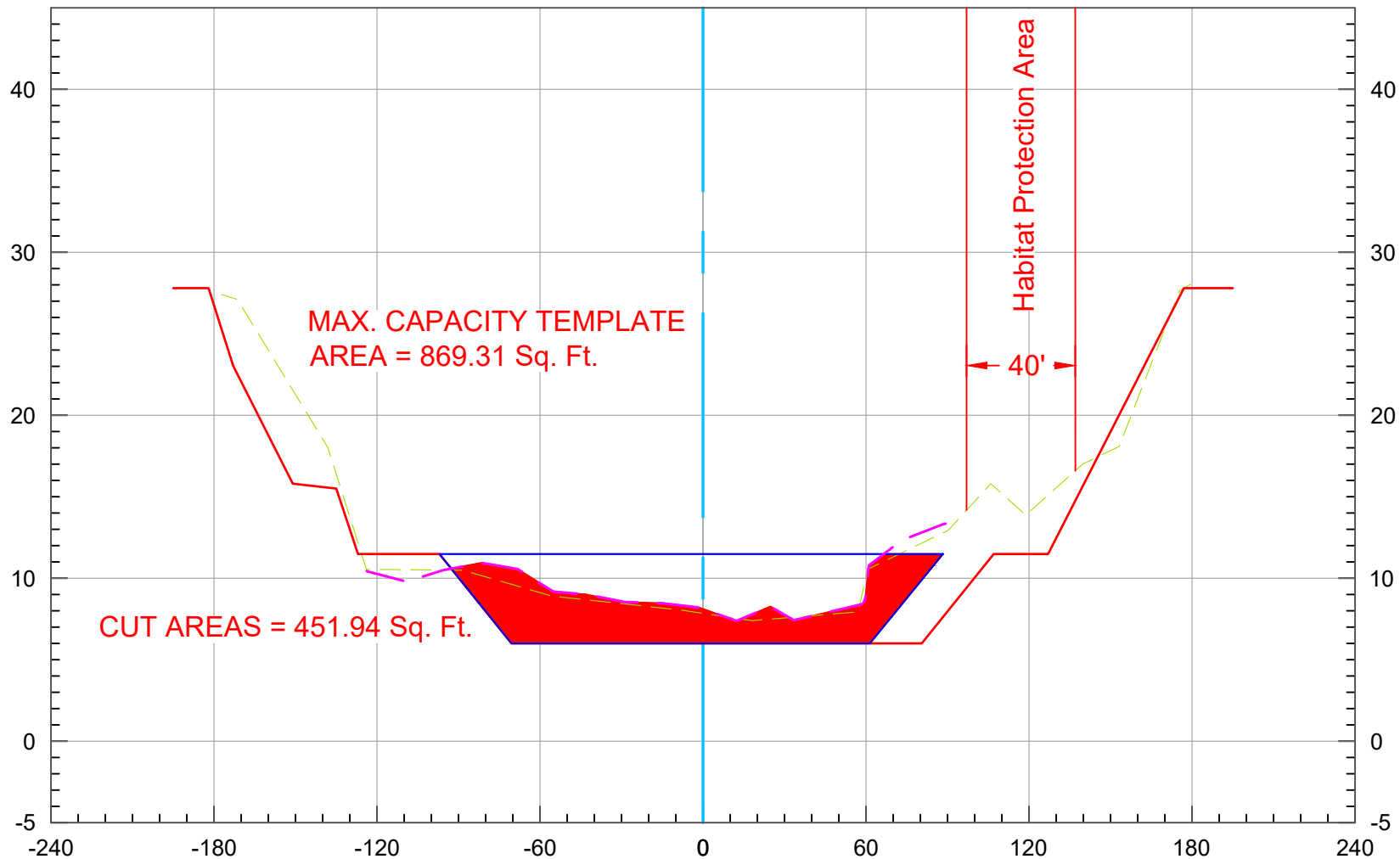
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

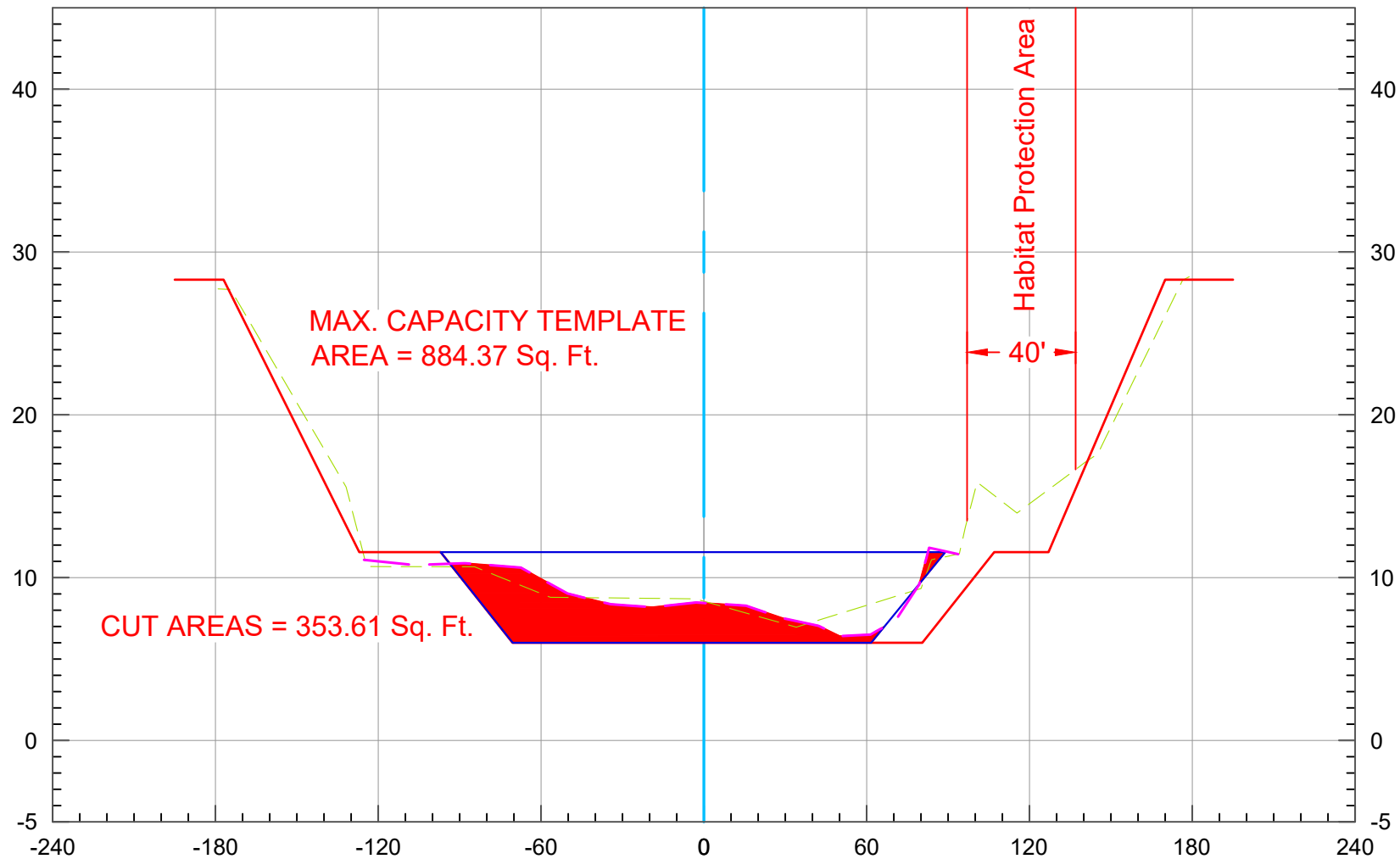


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

106+00

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

107+00

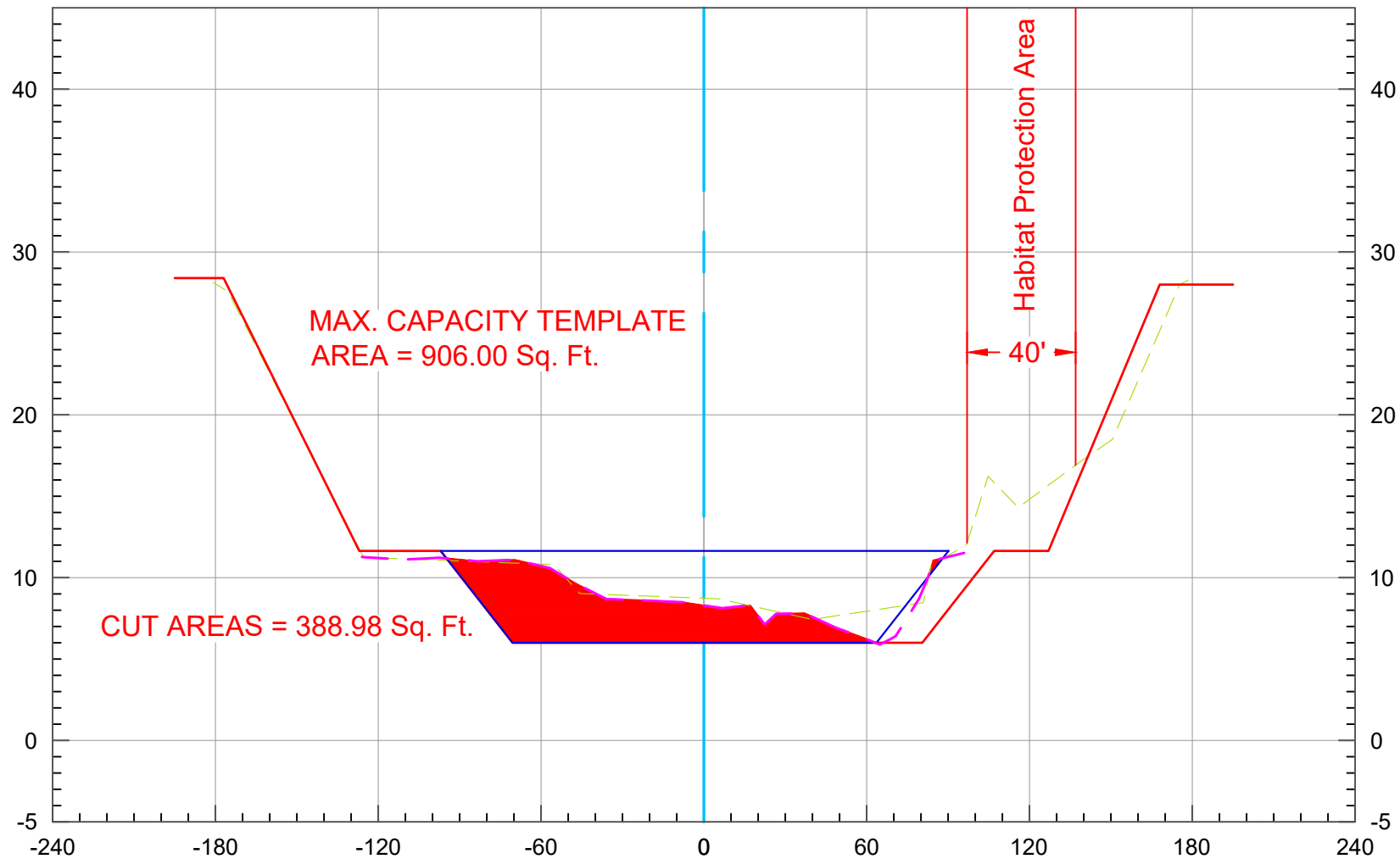
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

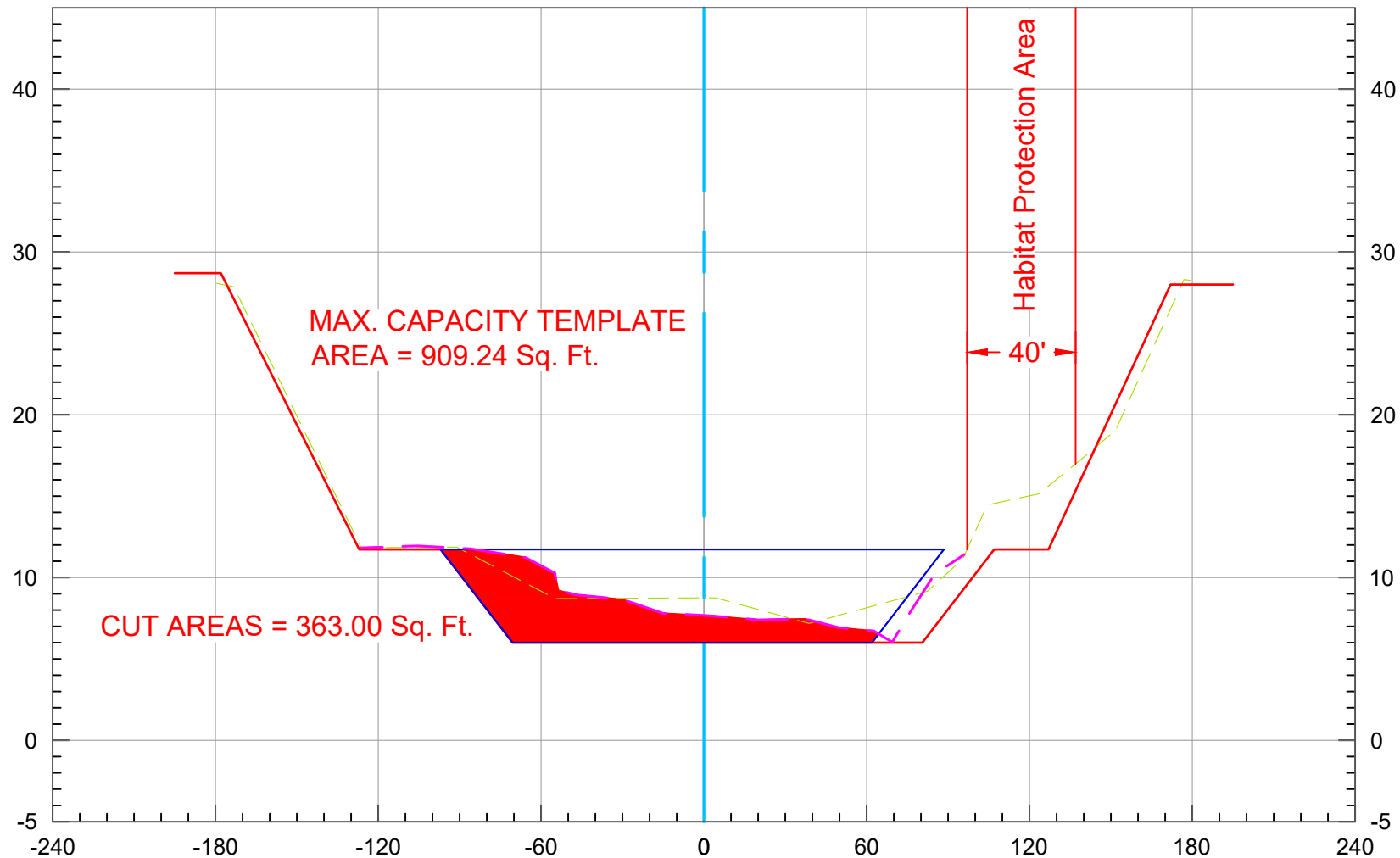


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

108+00

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



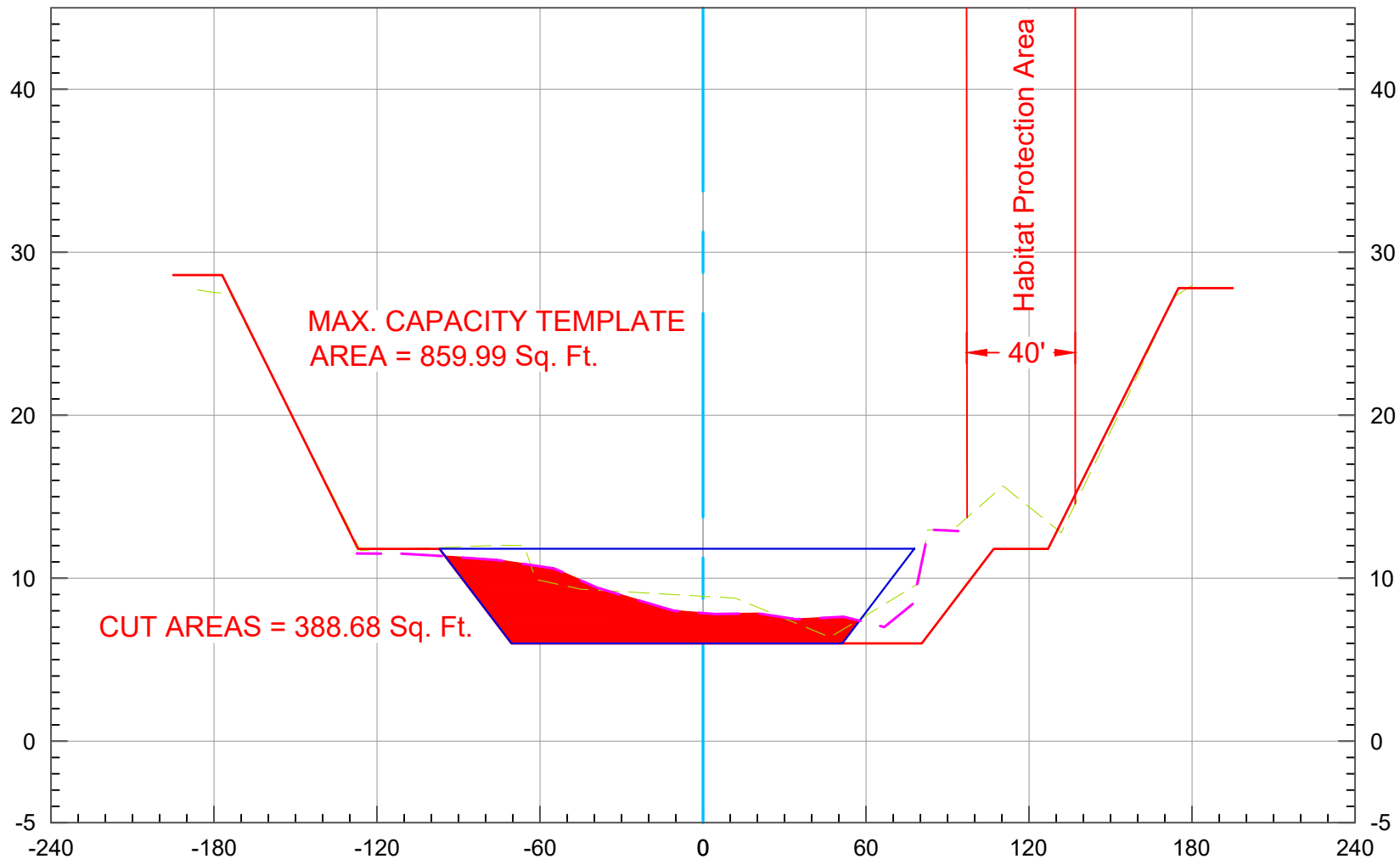
2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



109+00

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



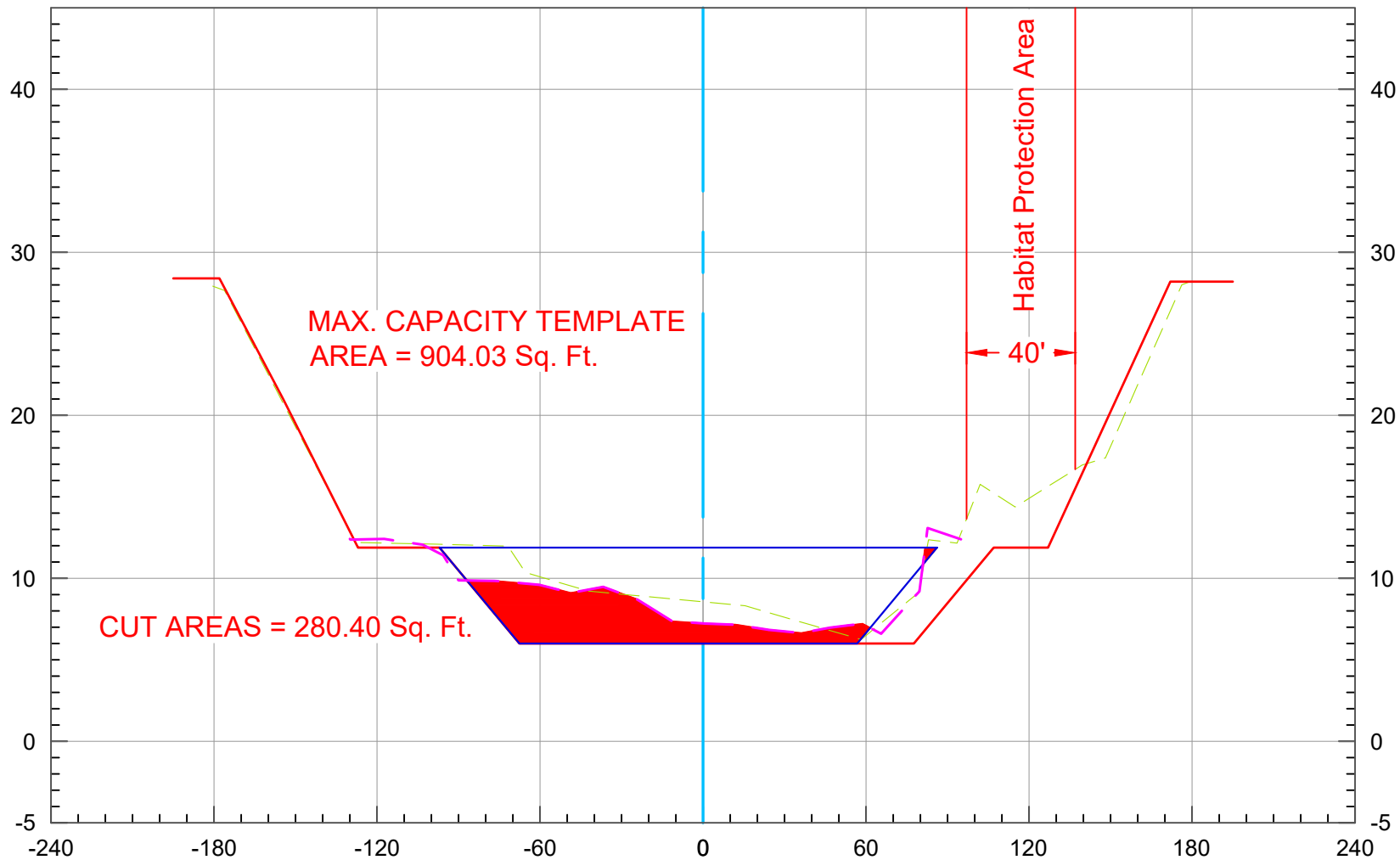
2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



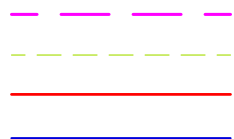
110+00

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

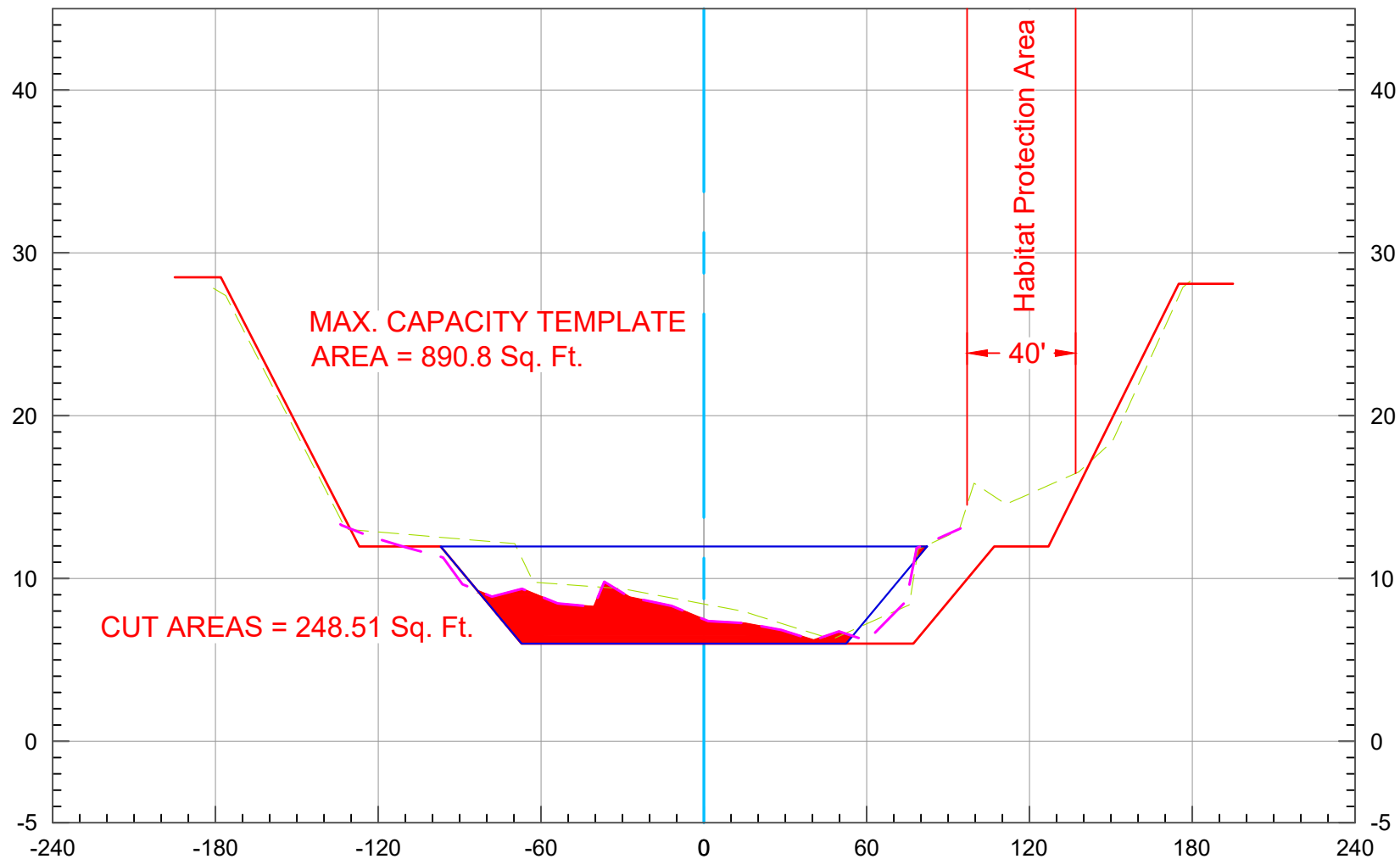


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

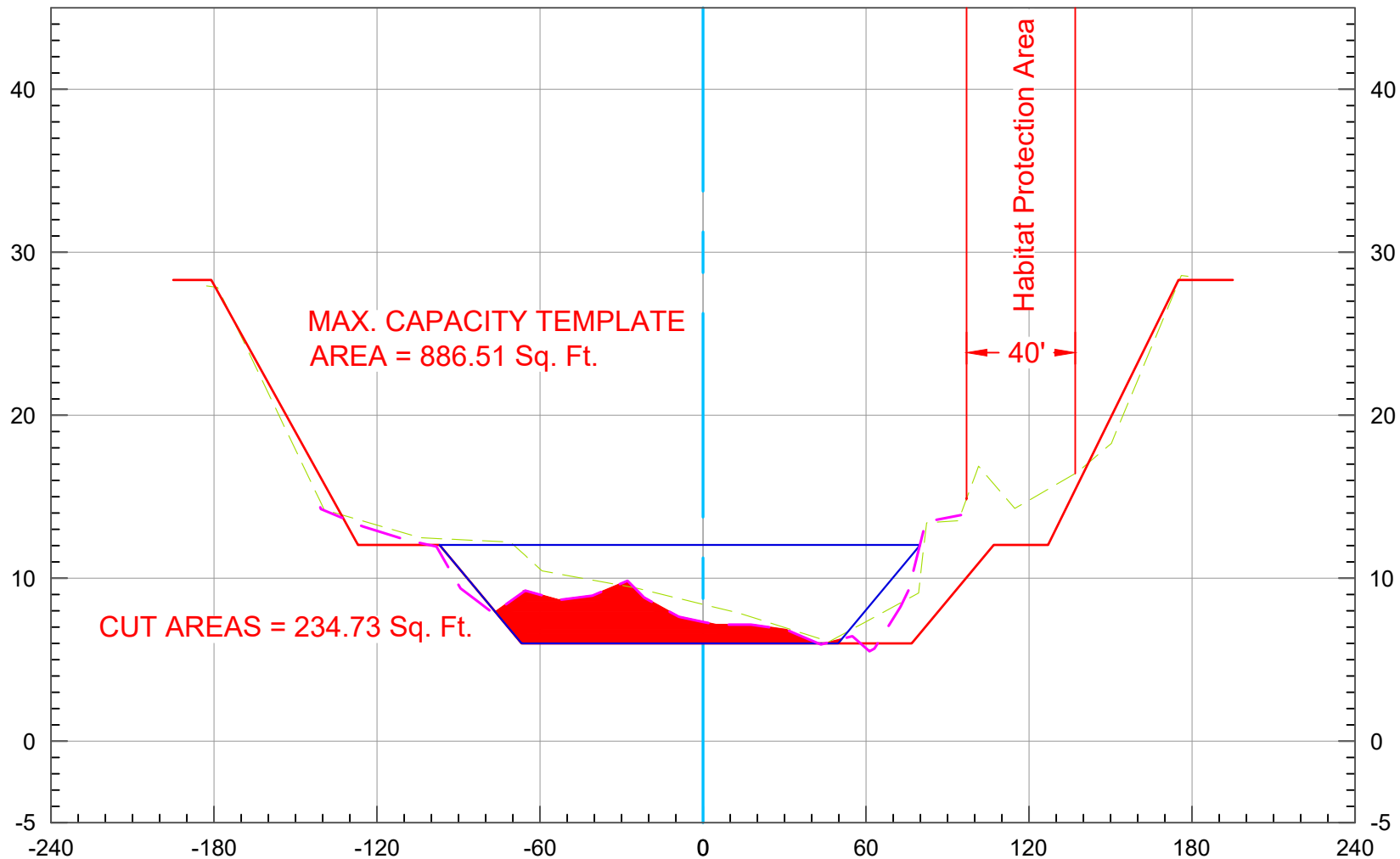


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

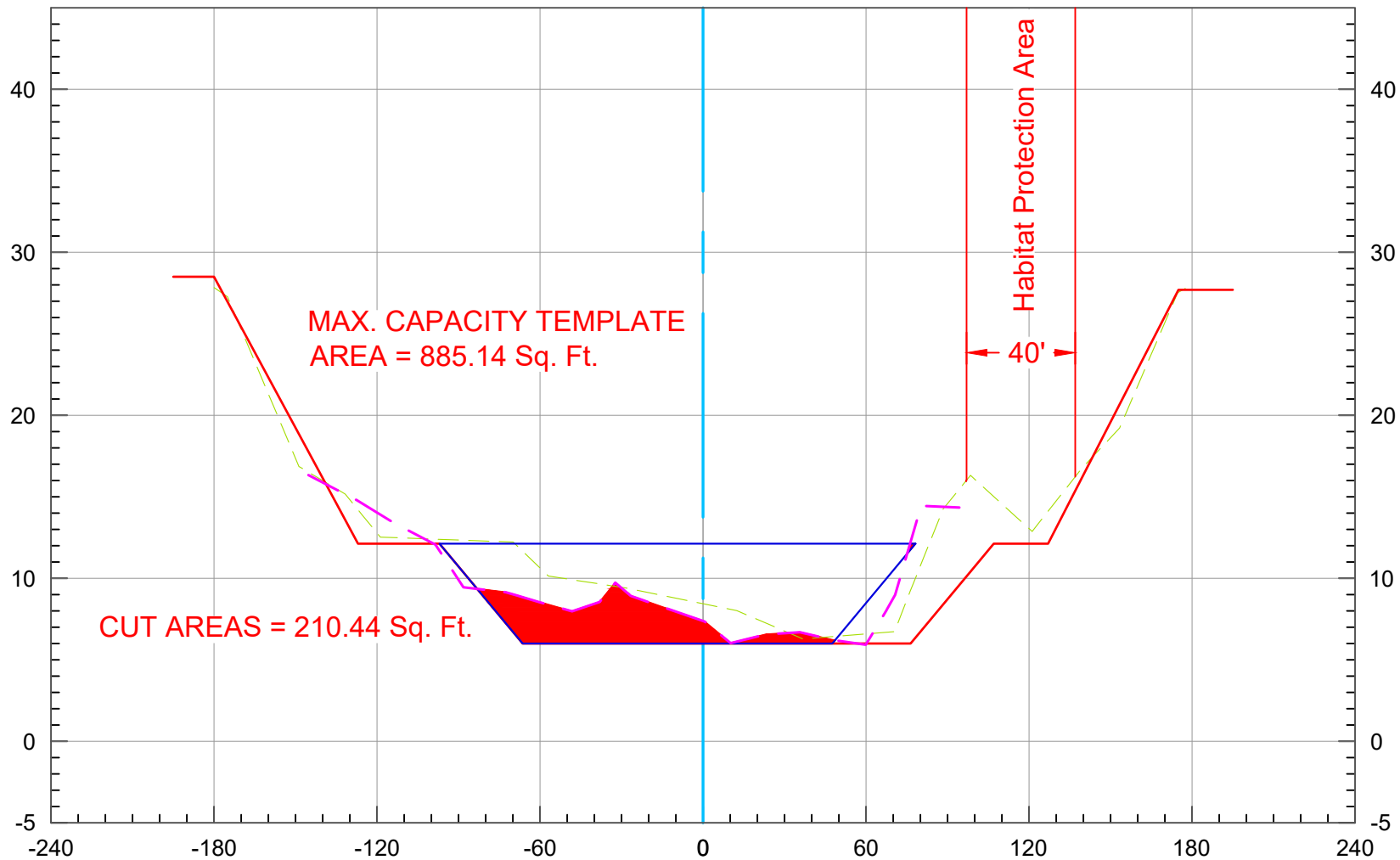


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

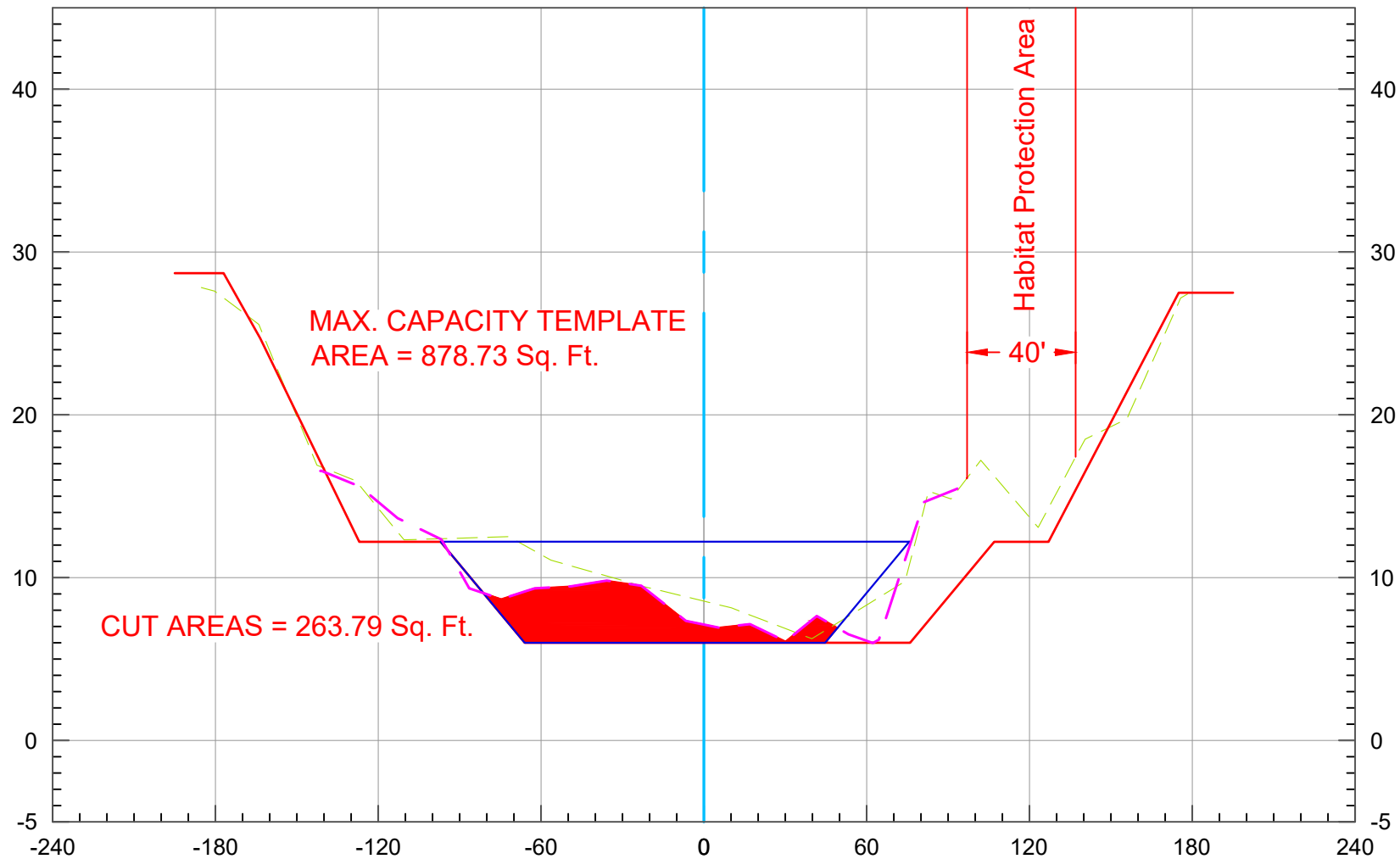
SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

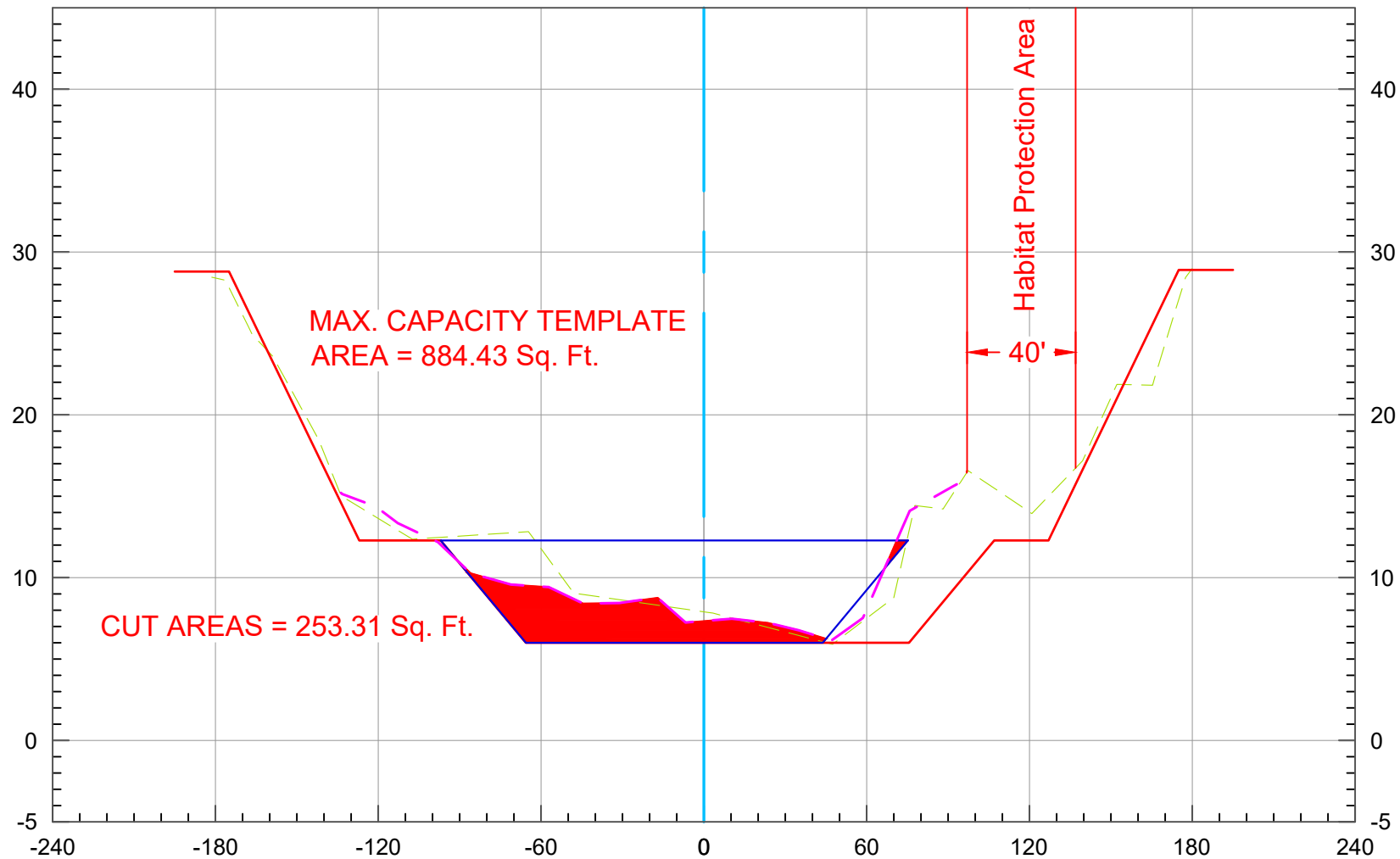


115+00

2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

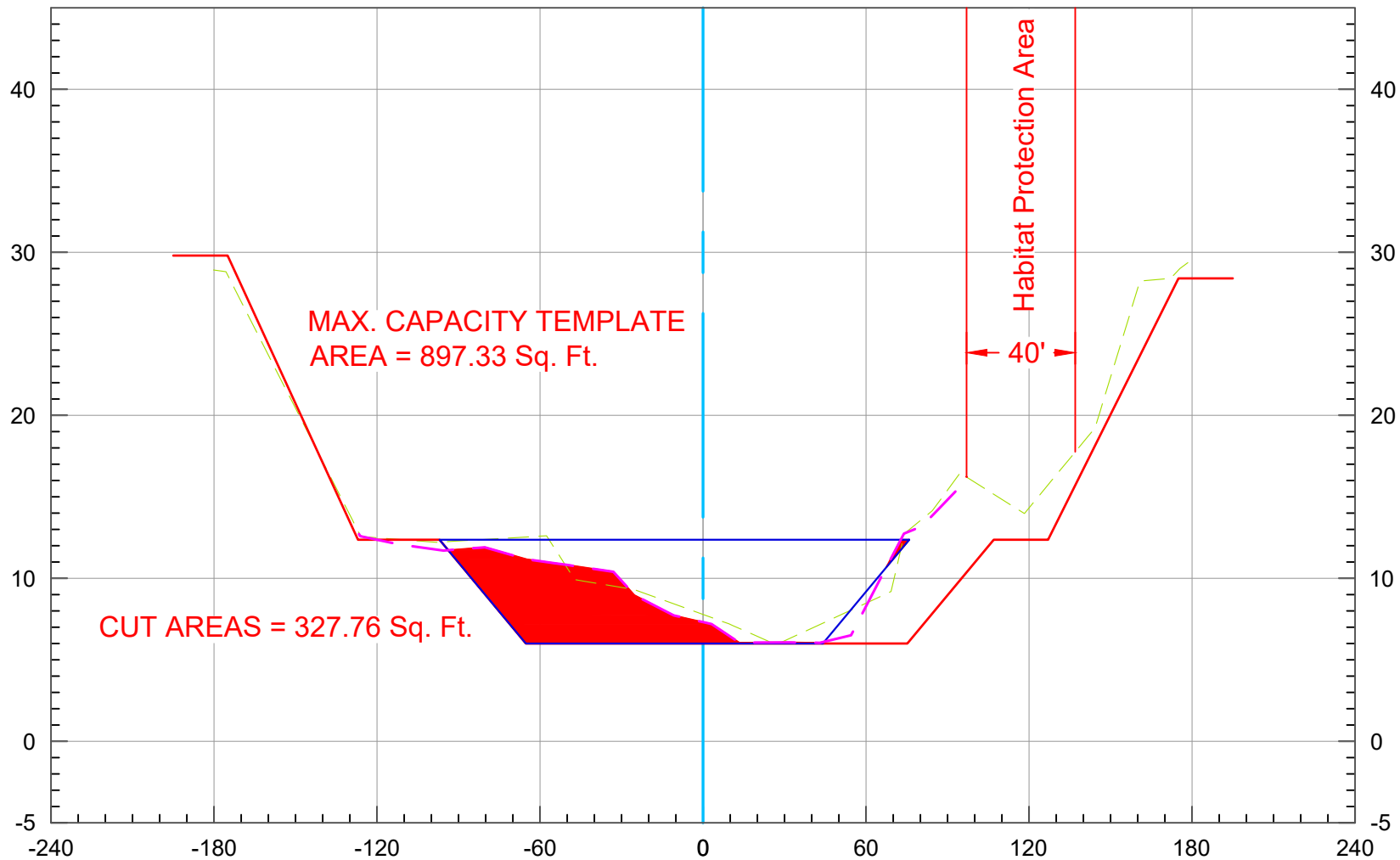


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

116+00

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

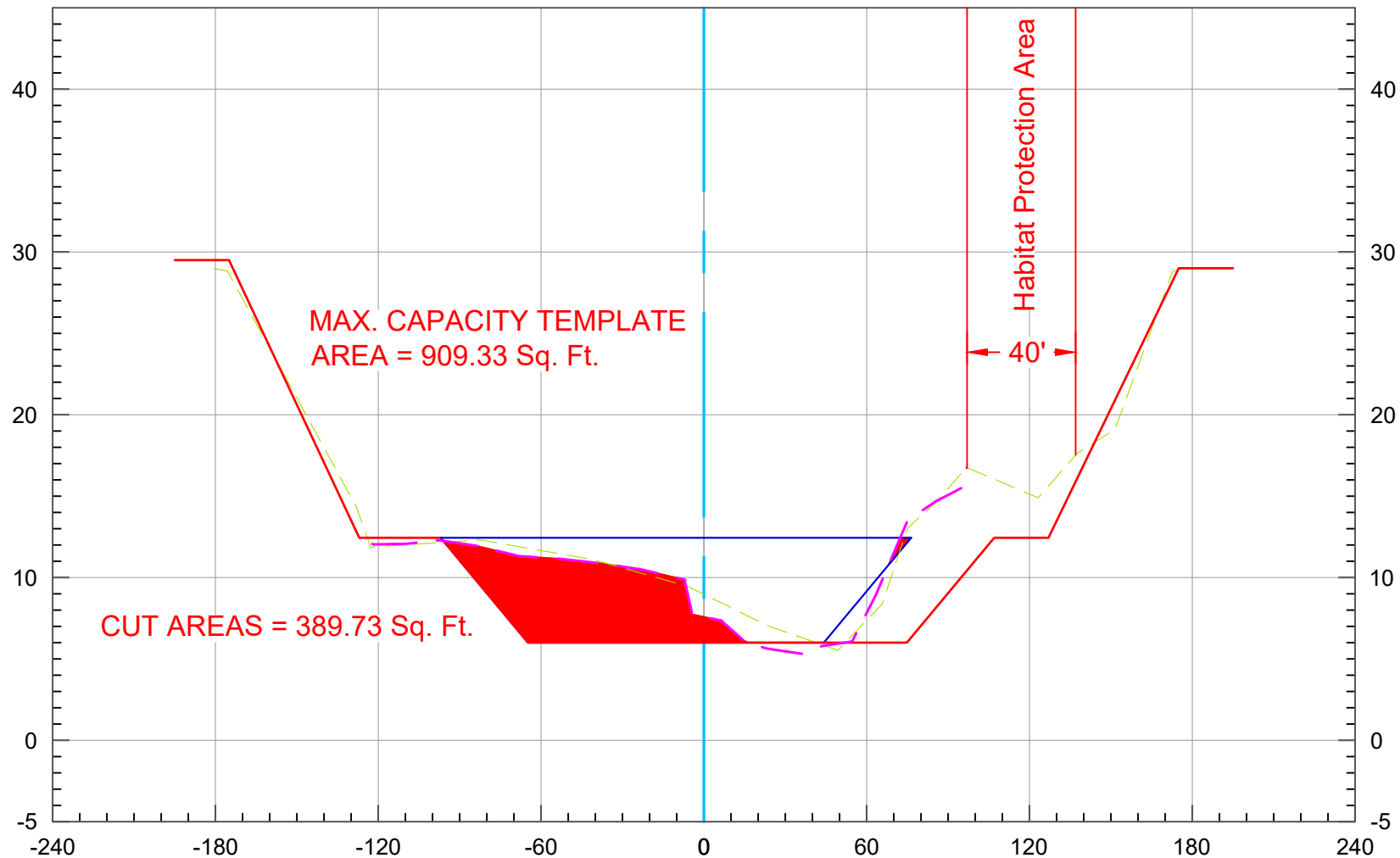


117+00

2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

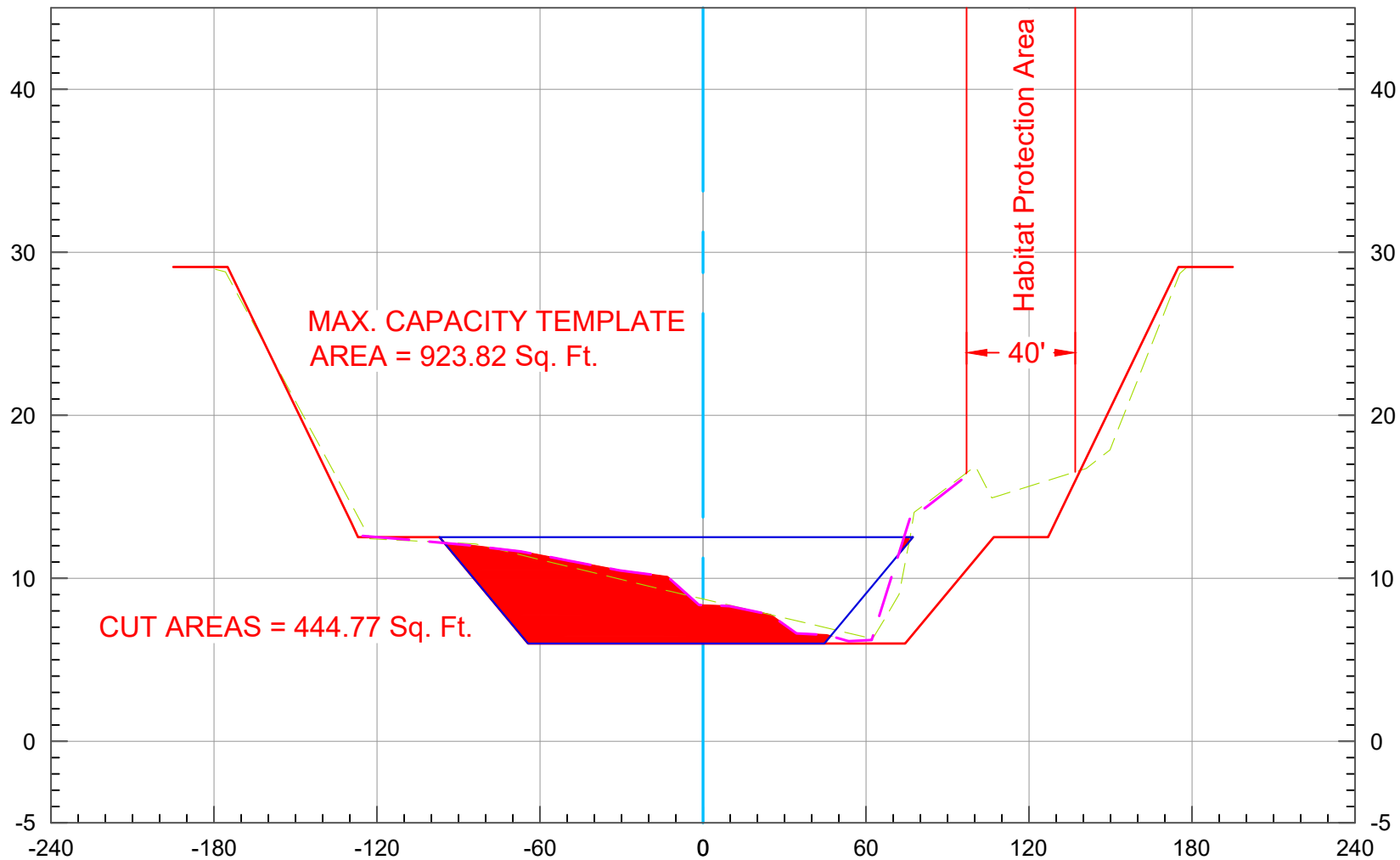


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity

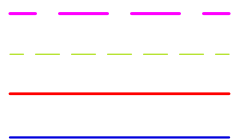


Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

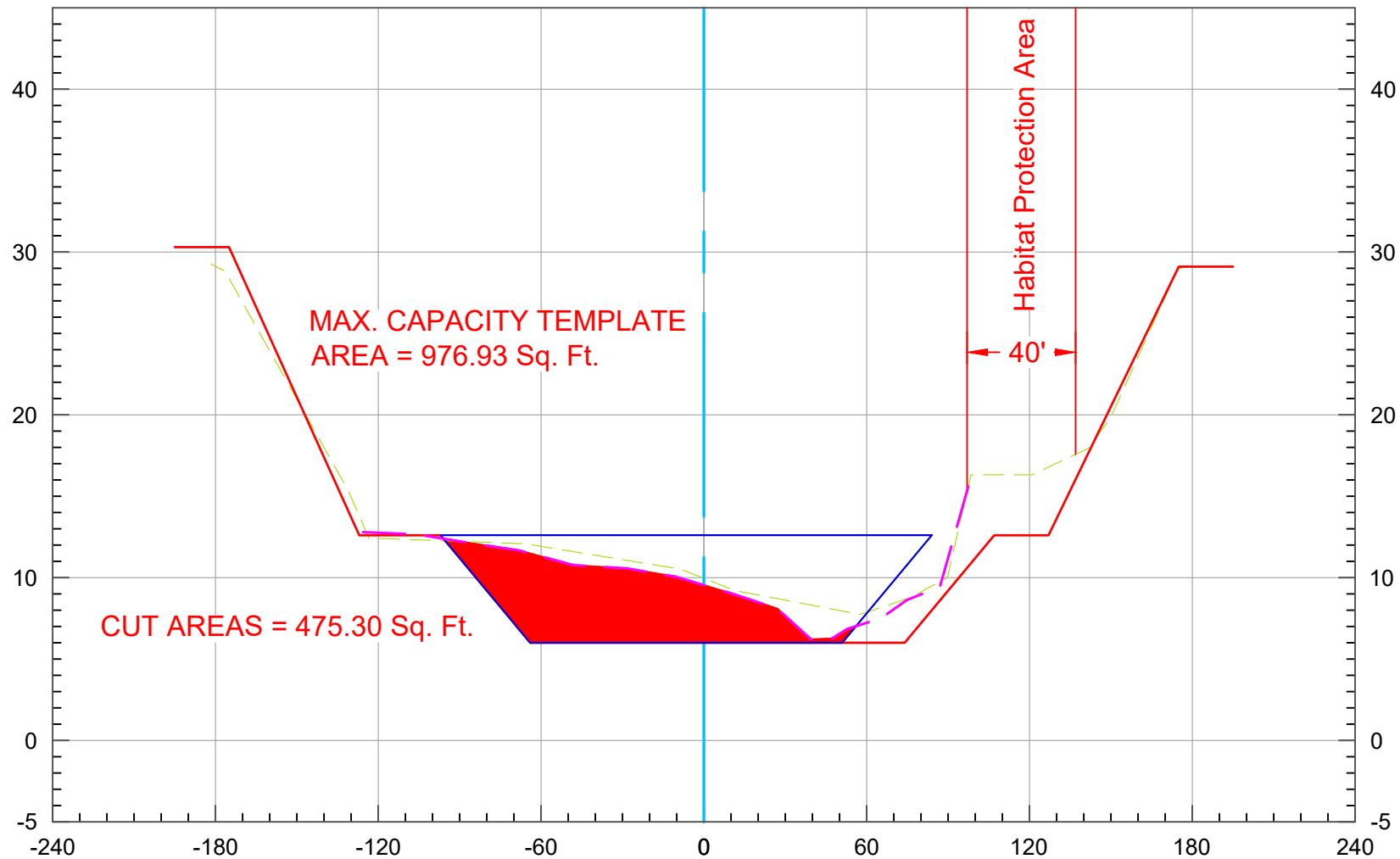


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

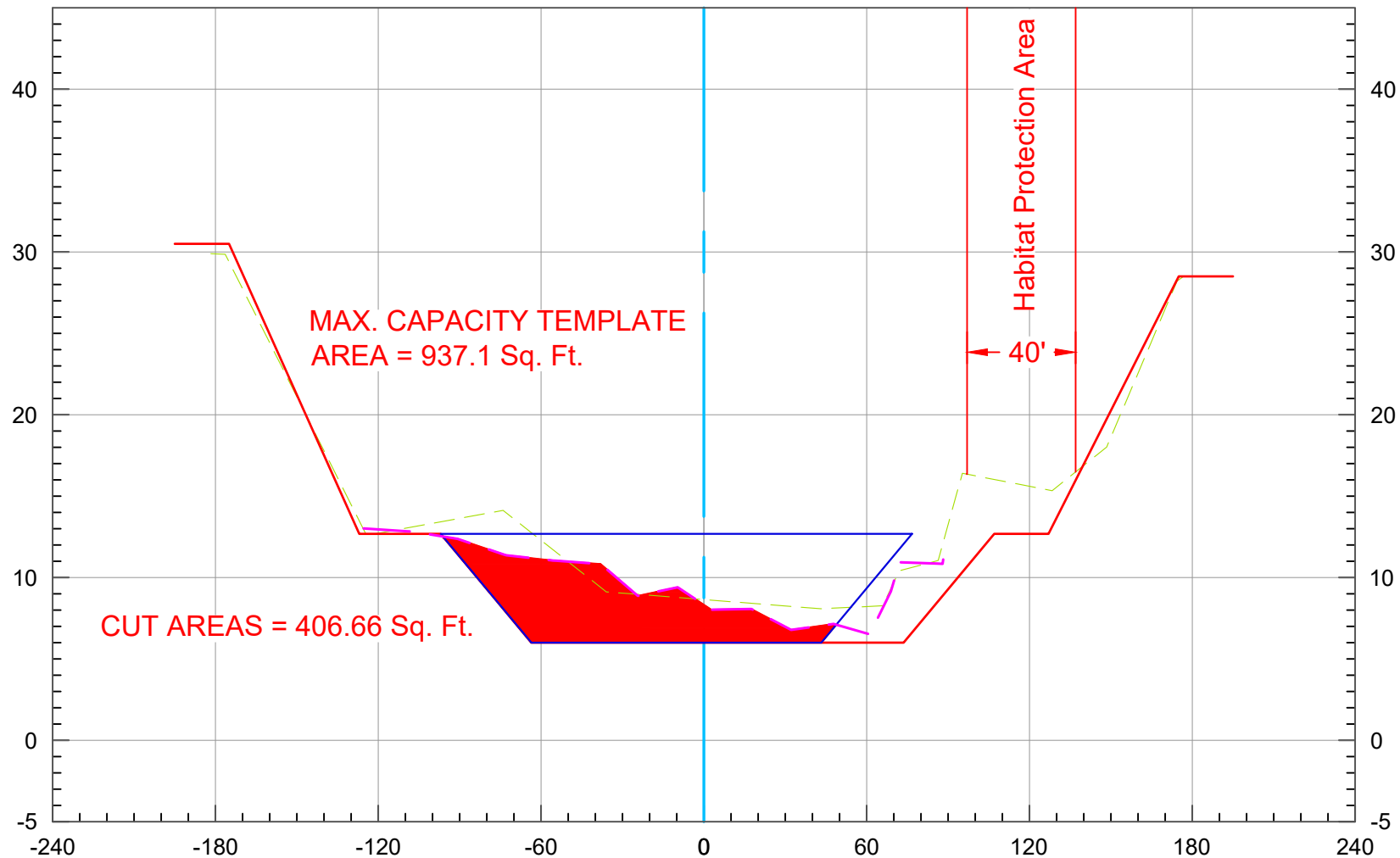


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

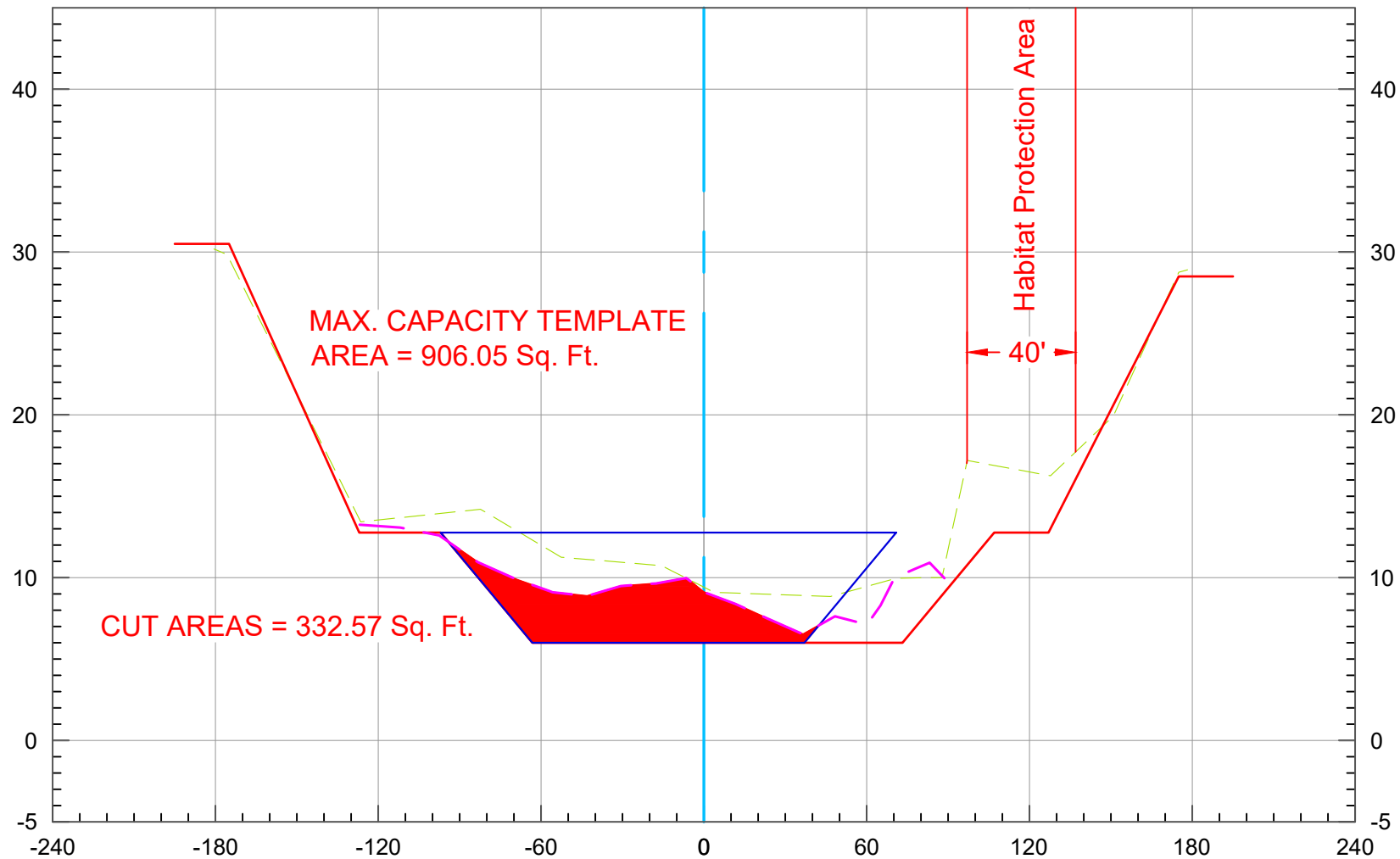


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

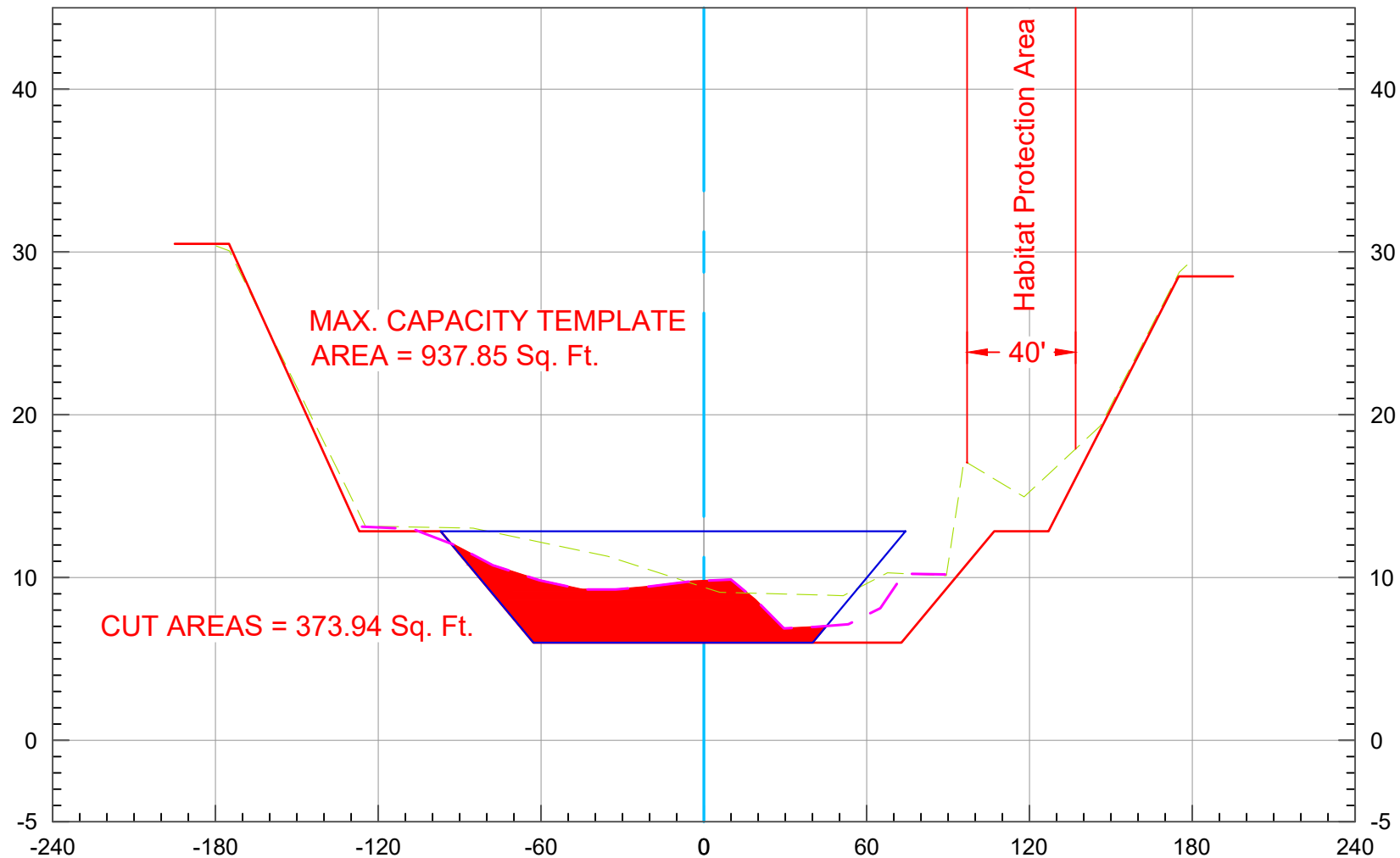


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

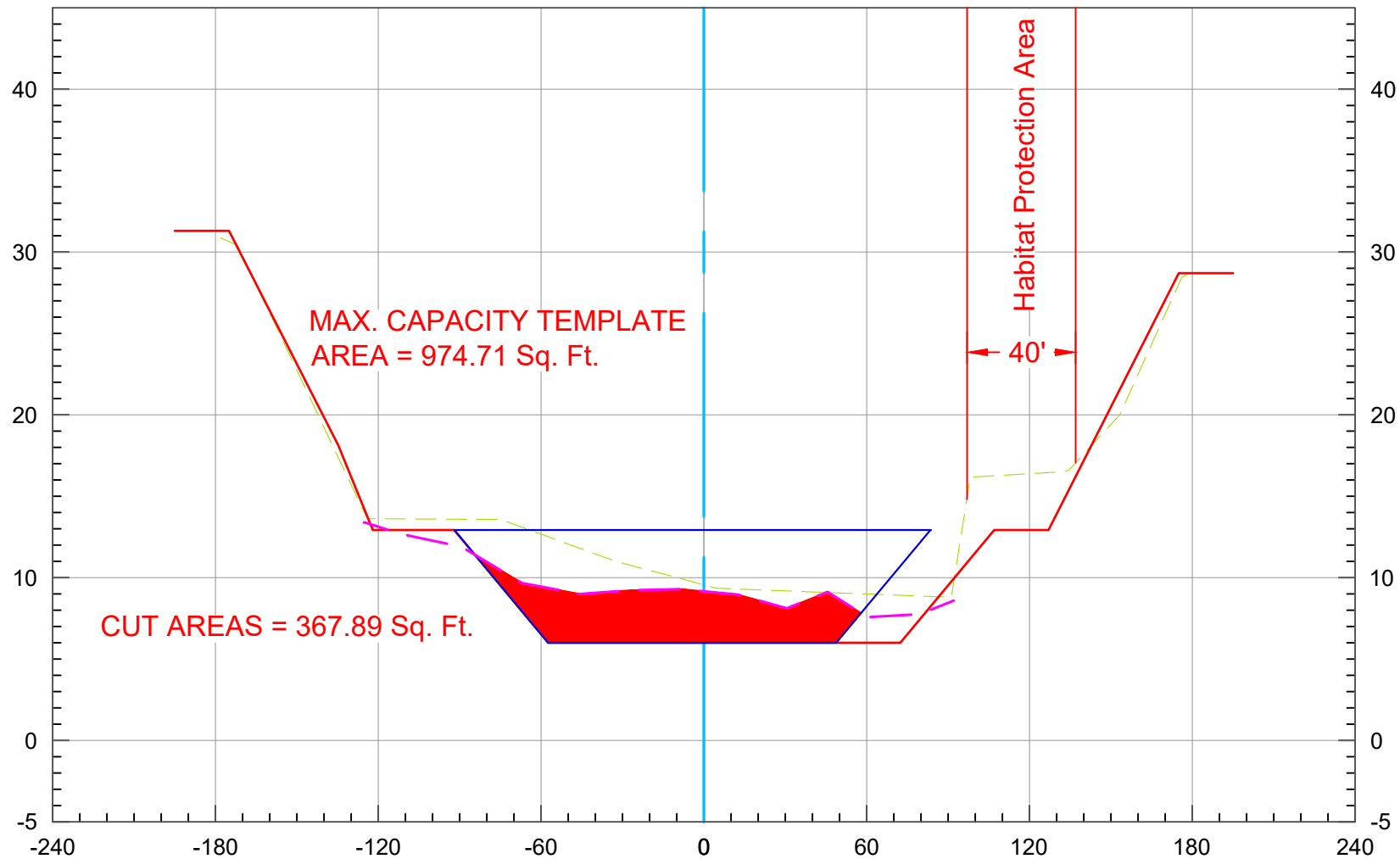


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



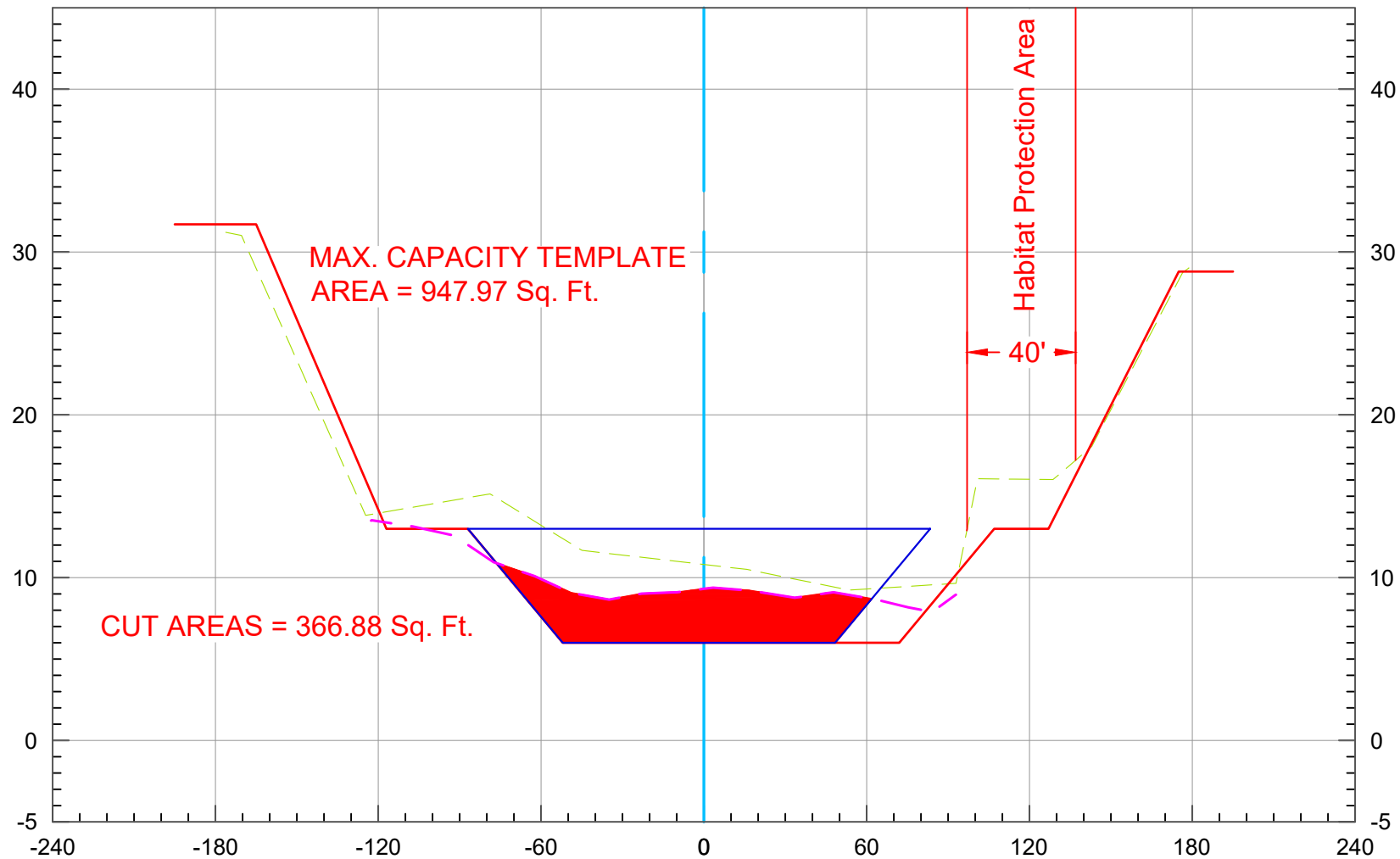
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



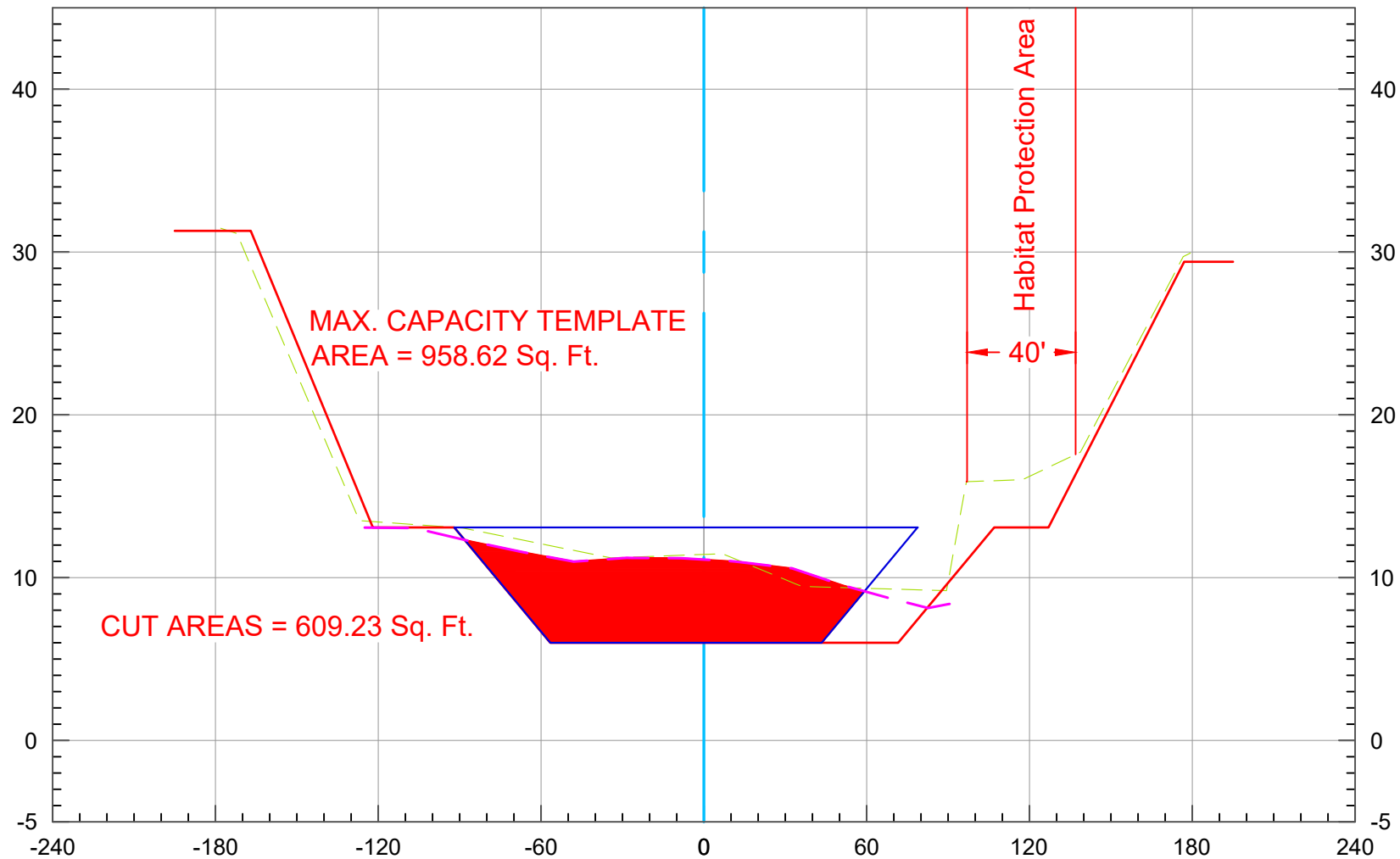
2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



125+00

Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

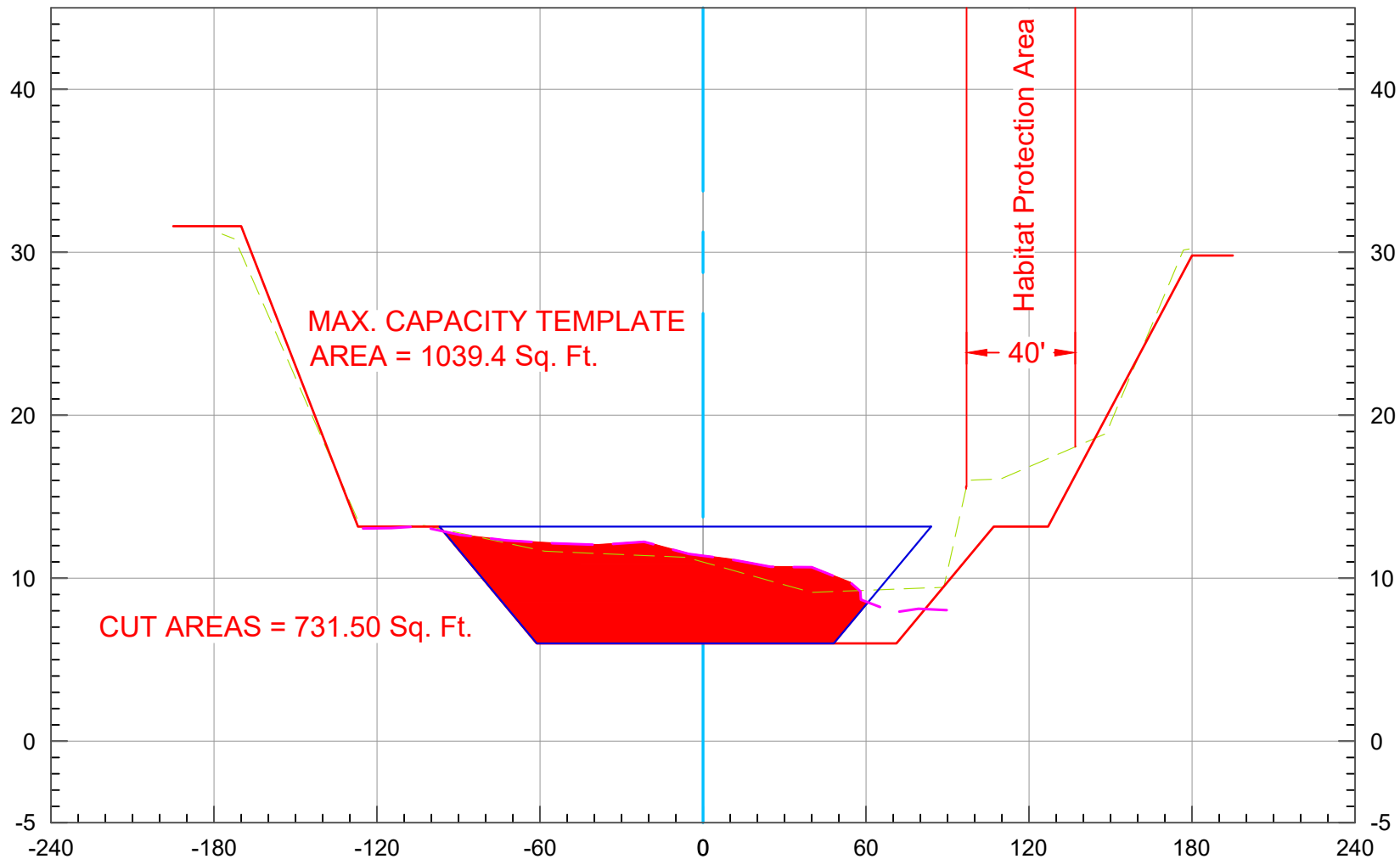


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

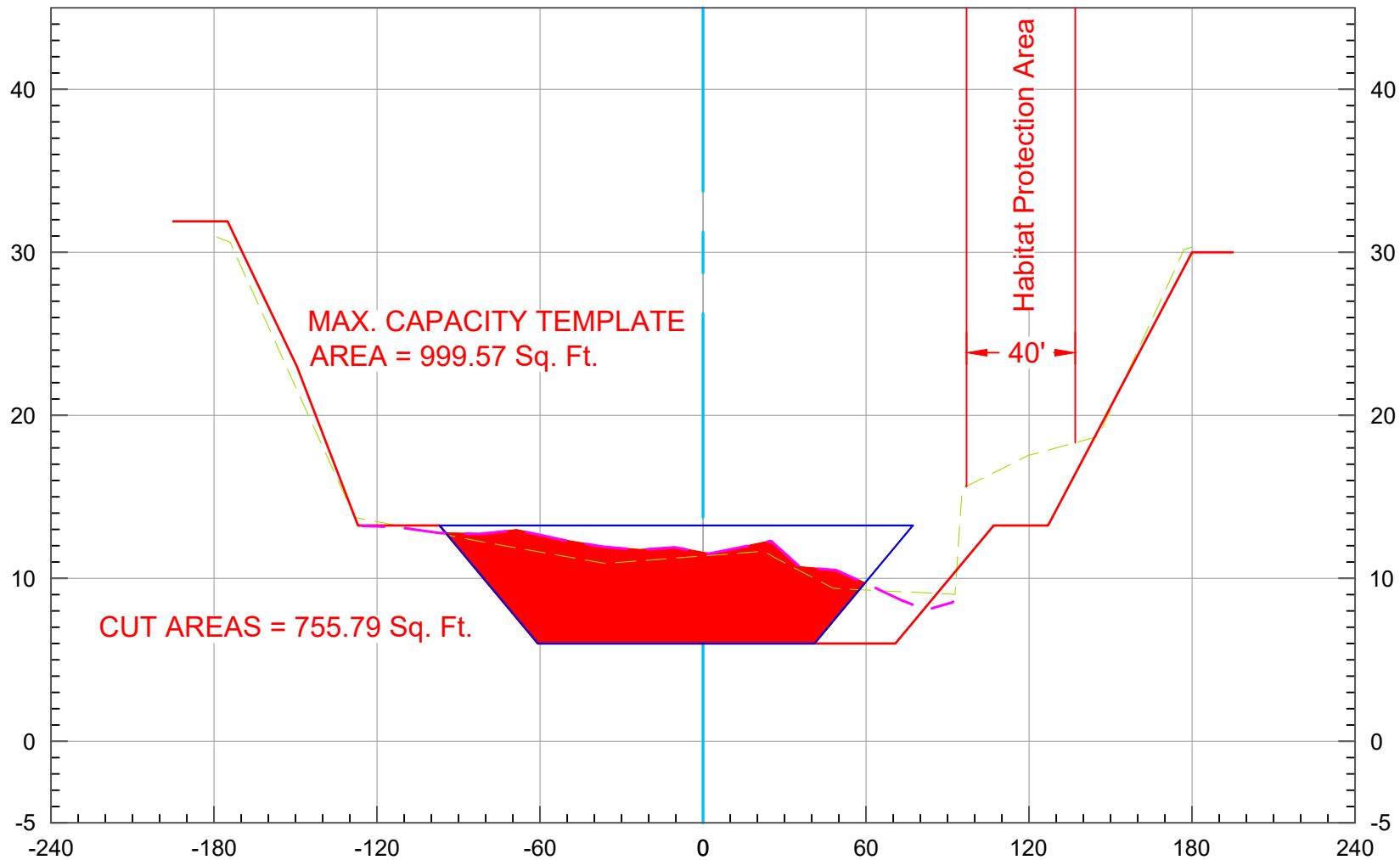


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

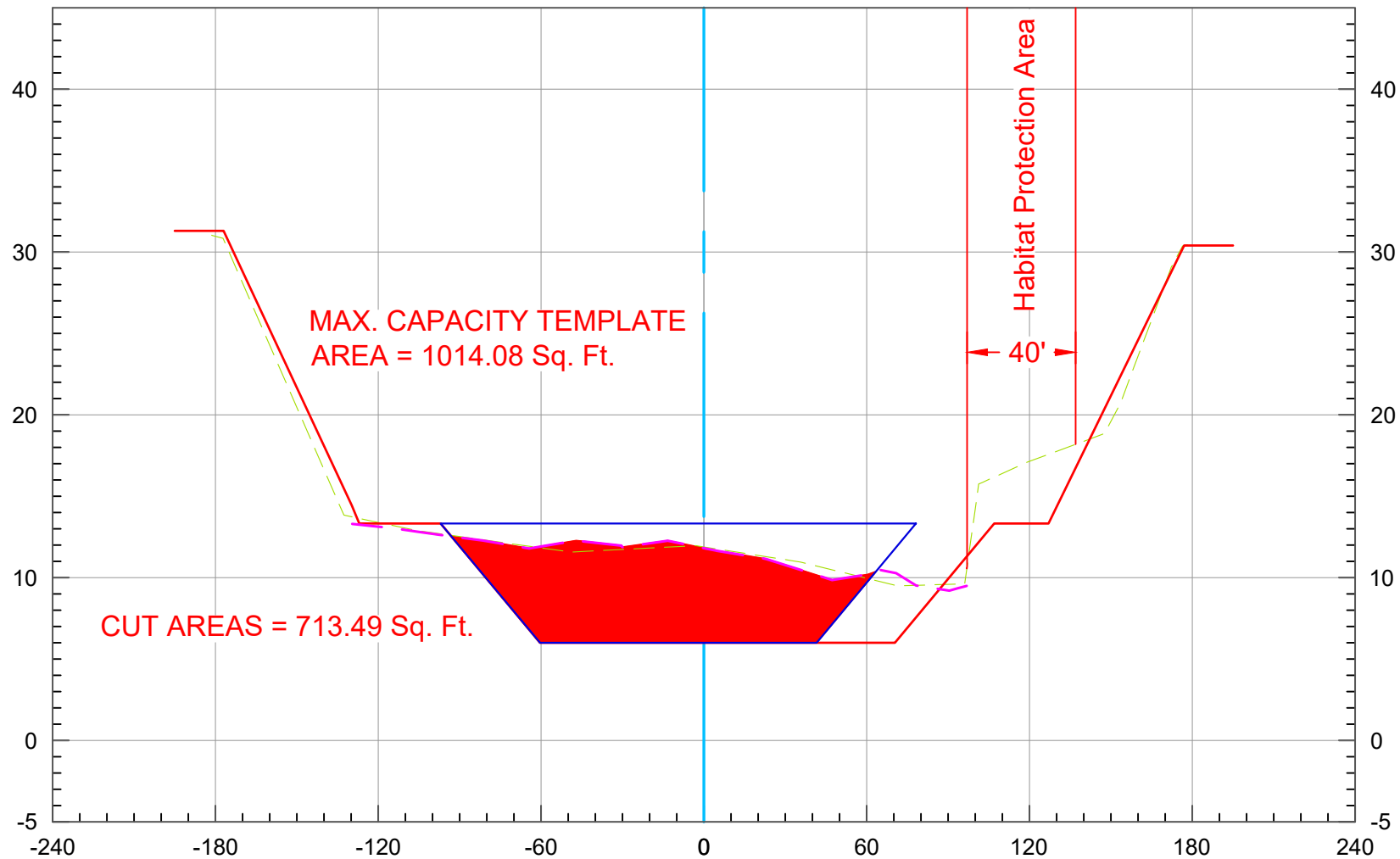


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

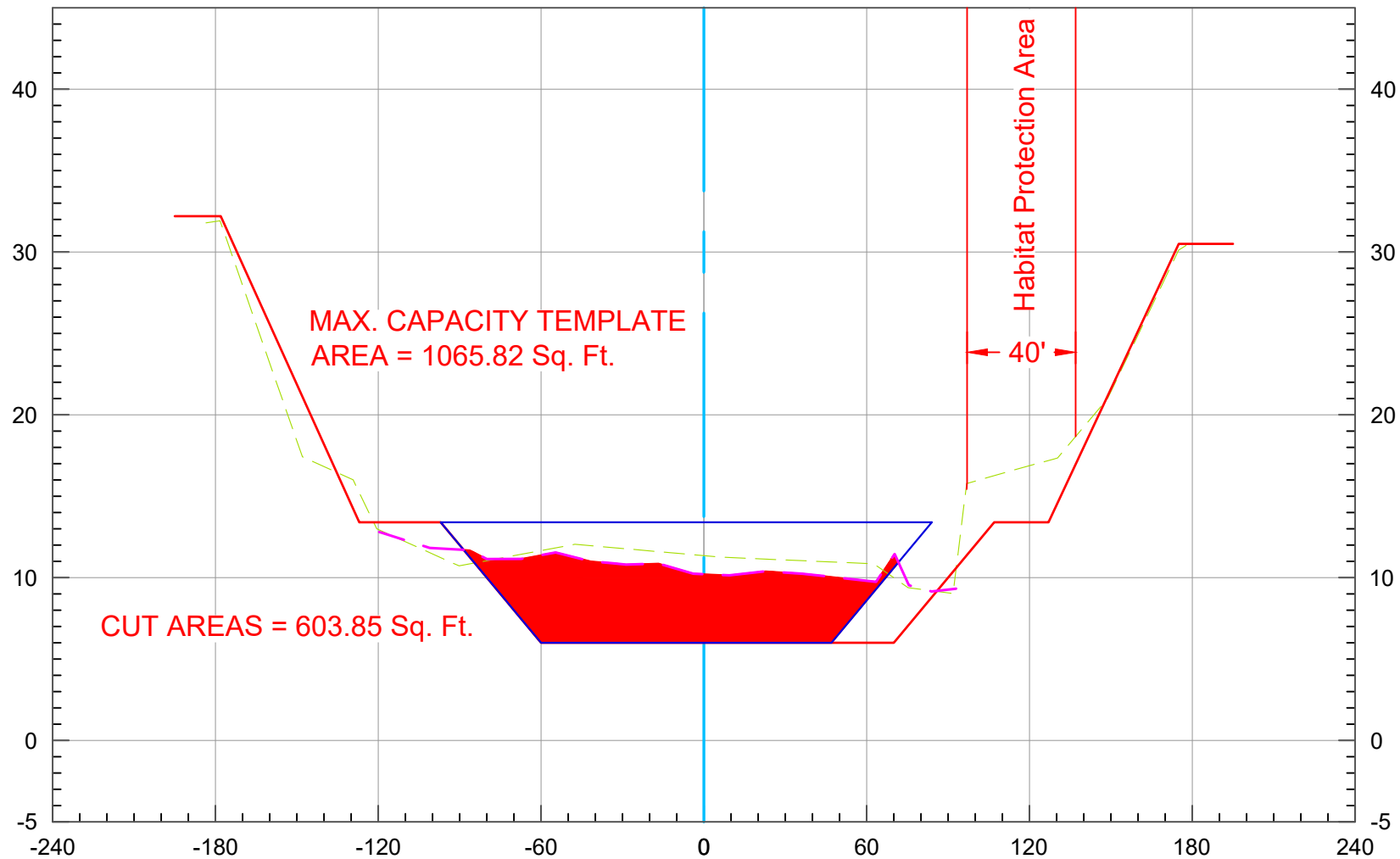


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL

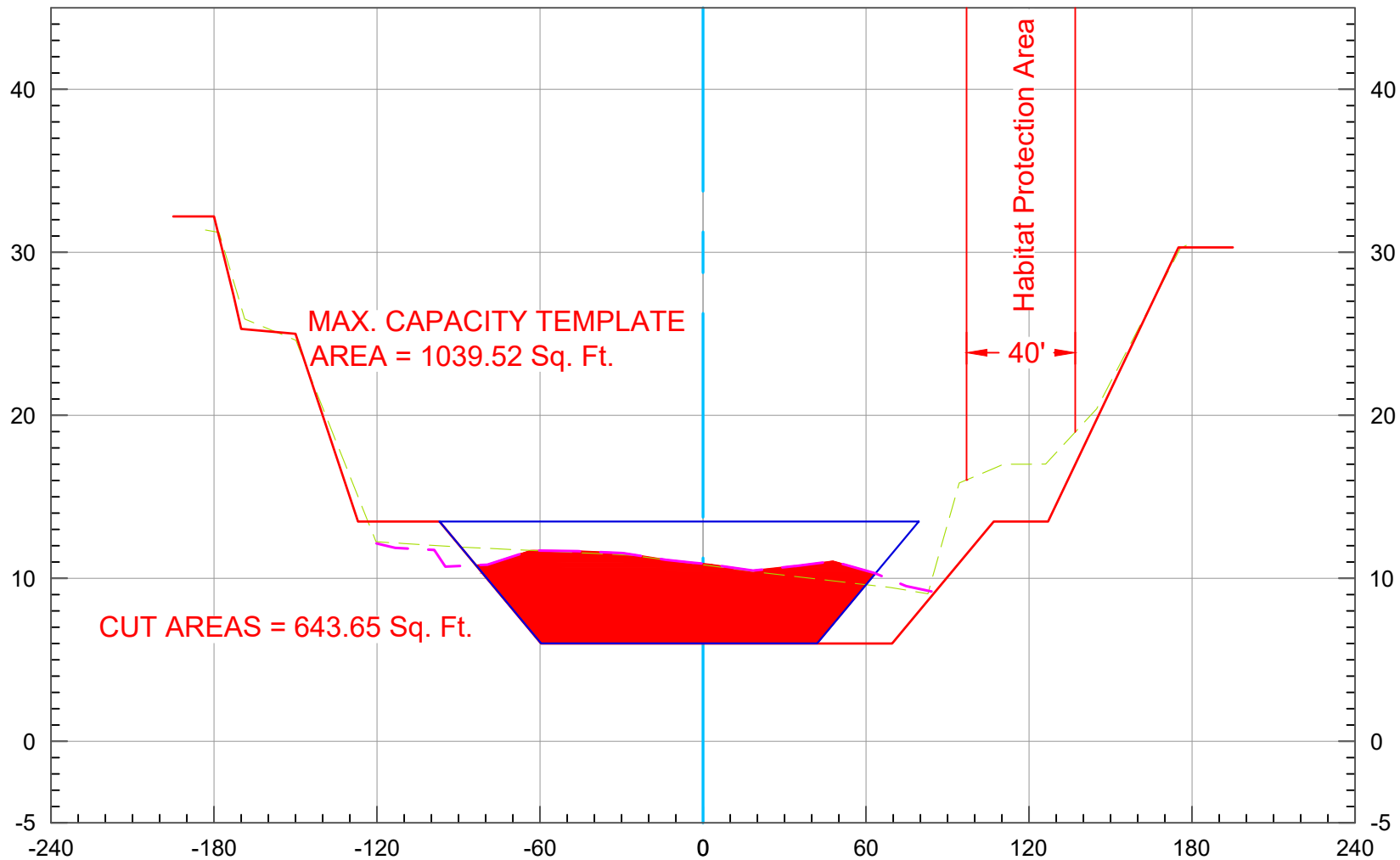


2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan
Maximum Capacity



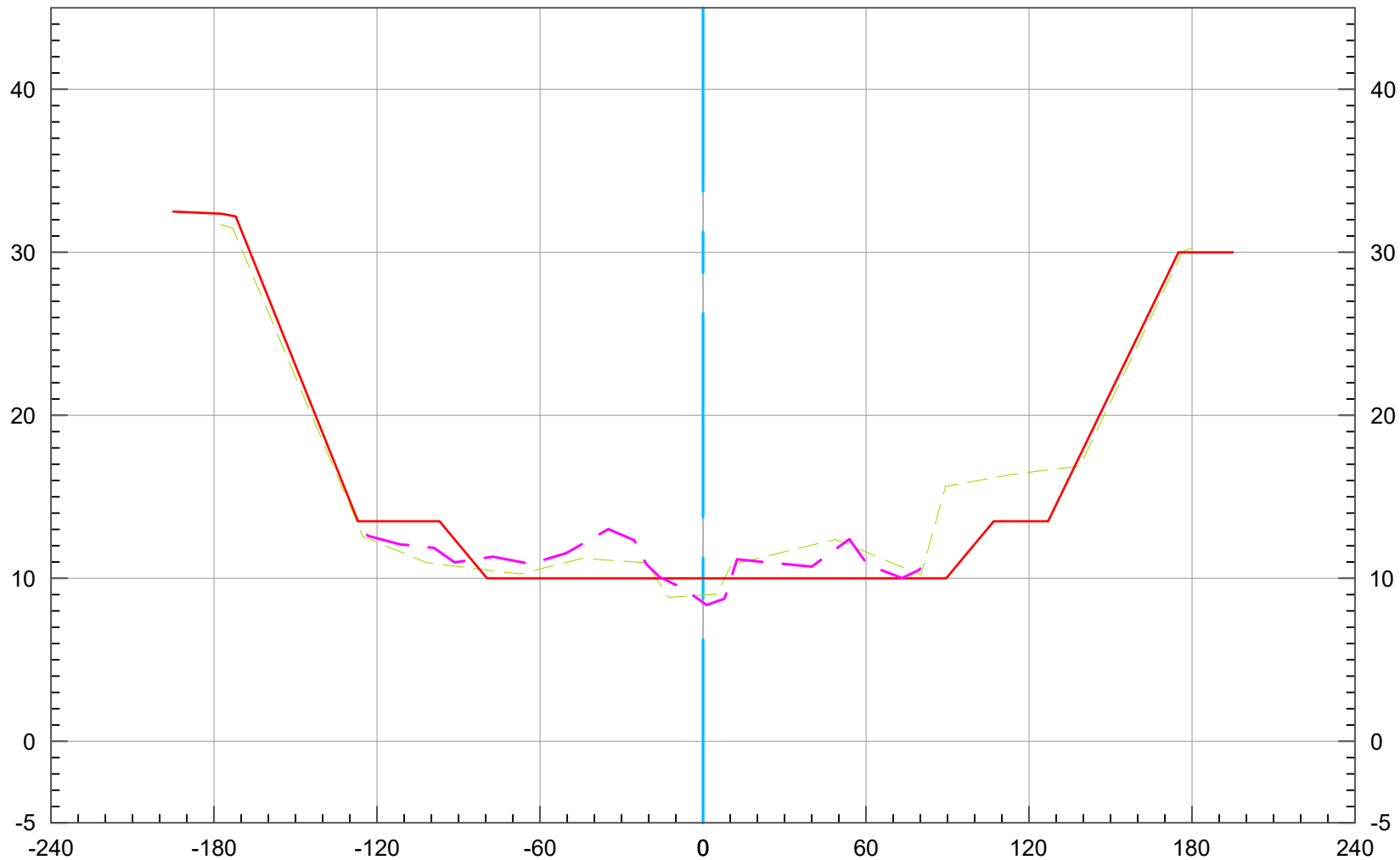
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



132+00

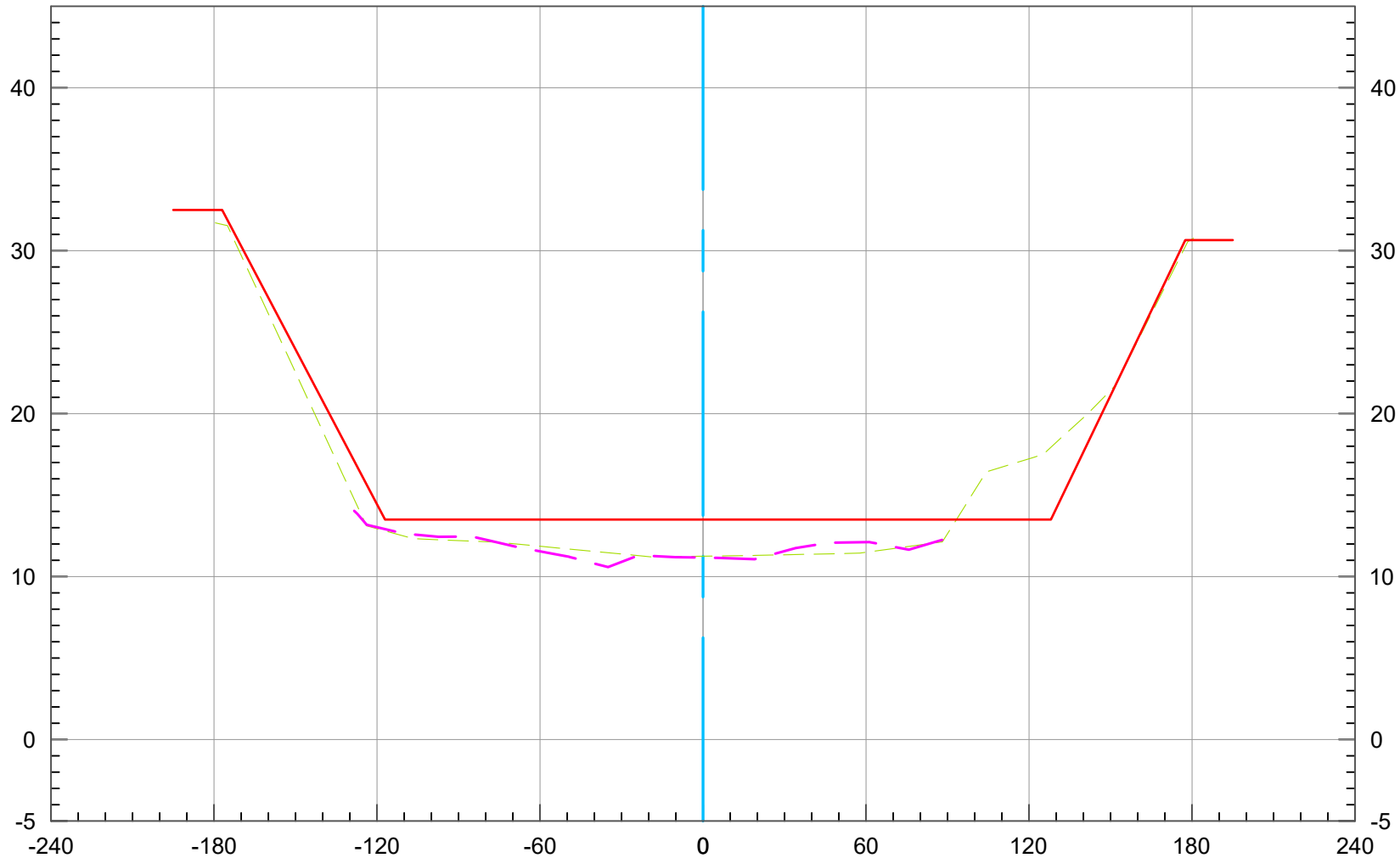
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



133+00

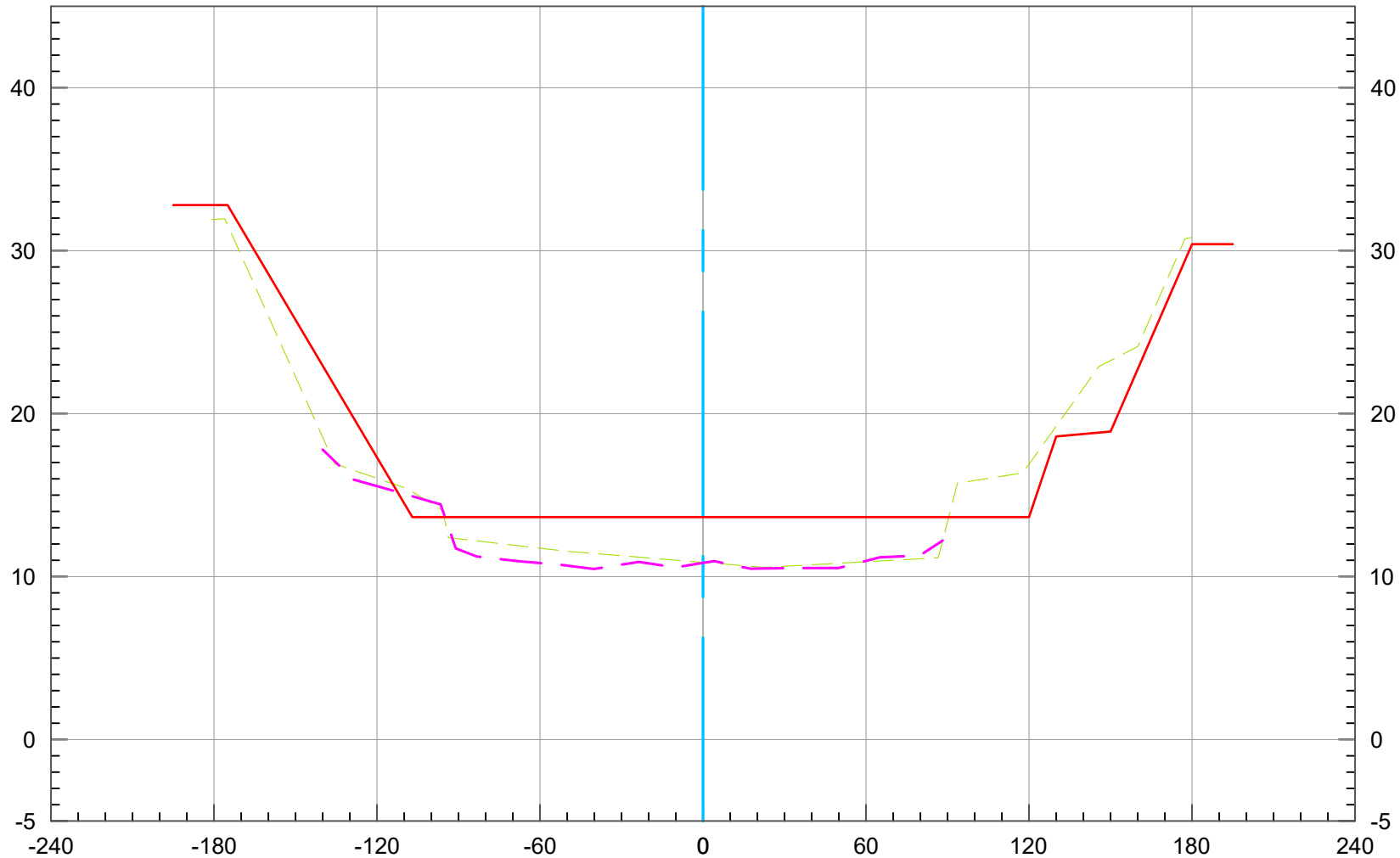
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



2020 Ground
2019 Ground
As-Built Plan



134+00

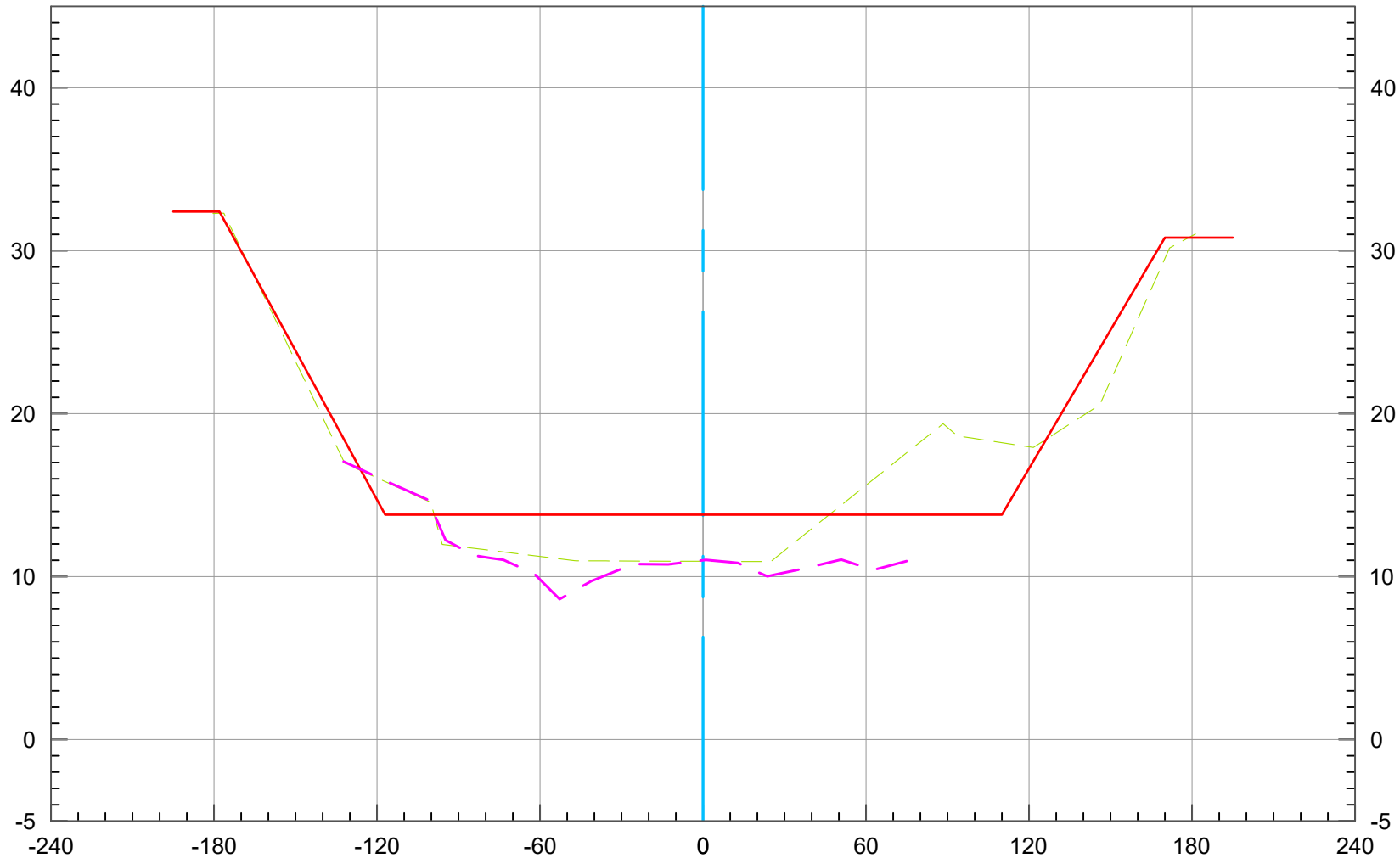
Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SAN DIEGO CREEK (F05) BASIN 3 - 2020 SCOURS CL



135+00

2020 Ground
2019 Ground
As-Built Plan



Vert. Scale: 1" = 10'
Horiz. Scale: 1" = 60'