



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

2019
SCOUR STUDY

Prepared by:
OC SURVEY

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

ORANGE COUNTY BOARD OF SUPERVISORS

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First District

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Fourth District

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Fifth District

2019
ANNUAL SCOUR STUDY

SAN DIEGO CREEK CHANNEL (F05) BASIN 2

BASIN 2

STATION 82+00 TO 98+00

AS-BUILT PLANS:

F05-101-4-A

STA. 10+00 TO 25+00

F05-101-1-A

STA. 25+00 TO 98+00

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 and JFA, Inc. (Consultant)

Survey Party Chief: Jonathan Johns, Surveyor III

Computer processing done by: Hanna Aftim, Surveyor III

COUNTY of ORANGE
OC PUBLIC WORKS
OC SURVEY
FIELD UNIT- BOUNDARY ANALYSIS & MAPPING

2019 SCOURS STUDY - VOLUME REPORT

SAN DIEGO CREEK (F05) BASIN #2, STATION 82+00 to 98+00

Date of Survey September 2019

ALIGNMENT: CENTERLINE ALIGNMENT REACH 1

SURFACE 1: SAN DIEGO CREEK SCOURS REACH1 EG (2019 Ground)

SURFACE 2: F05B2-2010 Rev 3 (As-Built Plan Template)

BASILINE STATION NUMBER	STATION CUT AREA	STATION CUT VOLUME	STATION FILL AREA	STATION FILL VOLUME	MASS ORDINATE VOLUME
82+00	756.25	0.00	68.47	0.00	0.00
83+00	516.23	2356.44	65.12	247.40	2109.04
84+00	299.24	1510.12	193.43	478.81	3140.35
85+00	391.34	1278.85	95.73	535.49	3883.71
86+00	342.06	1358.15	75.78	317.61	4924.25
87+00	421.22	1413.48	42.51	219.06	6118.67
88+00	368.24	1461.95	77.01	221.35	7359.27
89+00	418.81	1457.50	70.17	272.57	8544.20
90+00	364.64	1450.84	123.67	358.97	9636.06
91+00	526.63	1650.51	117.23	446.12	10840.45
92+00	335.71	1596.93	169.60	531.18	11906.20
93+00	435.94	1428.98	345.73	954.32	12380.87
94+00	472.49	1682.29	456.21	1485.06	12578.10
95+00	479.59	1763.12	313.51	1425.40	12915.82
96+00	422.62	1670.77	187.74	928.24	13658.35
97+00	548.71	1798.76	111.71	554.53	14902.58
98+00	635.82	2193.57	213.93	603.03	16493.12

CUT: 26,072 Cu. Yds.

FILL: 9,579 Cu. Yds

NET: 16,493 Cu. Yds.

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
82+00	189.48	25.00
82+00	171.07	24.99
82+00	168.58	24.80
82+00	138.83	12.81
82+00	130.30	11.80
82+00	103.73	12.79
82+00	94.06	9.41
82+00	59.96	10.26
82+00	46.48	8.40
82+00	33.89	5.32
82+00	29.05	5.36
82+00	15.23	10.01
82+00	-0.49	9.49
82+00	-14.94	8.82
82+00	-88.60	8.94
82+00	-133.93	10.56
82+00	-173.49	25.49
82+00	-177.15	25.38
84+00	178.90	26.20
84+00	174.69	26.17
84+00	171.57	26.12
84+00	152.06	17.64
84+00	137.73	14.31
84+00	122.71	5.25
84+00	112.64	5.85
84+00	101.04	13.69
84+00	90.59	8.54
84+00	68.47	6.99
84+00	5.46	6.75
84+00	-30.18	3.37
84+00	-90.68	8.38
84+00	-103.70	11.72
84+00	-136.46	10.94
84+00	-177.12	25.94
84+00	-181.27	25.78
85+00	179.52	26.05
85+00	176.01	25.93
85+00	172.29	25.72
85+00	150.84	17.12
85+00	138.17	14.57
85+00	127.65	10.30
85+00	116.71	10.83
85+00	102.27	14.81
85+00	95.45	10.43

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
85+00	19.76	7.02
85+00	8.41	4.55
85+00	-21.43	4.38
85+00	-43.92	3.19
85+00	-93.28	8.98
85+00	-102.28	11.29
85+00	-129.70	9.23
85+00	-176.95	26.31
85+00	-181.72	26.17
86+00	180.18	26.28
86+00	175.57	26.09
86+00	172.87	25.79
86+00	152.79	17.37
86+00	138.91	15.40
86+00	125.32	11.69
86+00	105.93	11.00
86+00	95.76	8.52
86+00	60.15	7.23
86+00	12.31	7.14
86+00	-10.13	4.22
86+00	-40.09	3.61
86+00	-93.86	9.03
86+00	-98.39	10.36
86+00	-129.81	9.42
86+00	-176.60	26.41
86+00	-181.27	26.23
87+00	181.03	26.28
87+00	176.56	26.17
87+00	174.23	25.90
87+00	155.32	18.72
87+00	139.99	17.25
87+00	126.24	9.92
87+00	113.10	9.89
87+00	101.65	13.49
87+00	92.58	8.61
87+00	44.55	7.25
87+00	10.06	6.83
87+00	-3.70	4.43
87+00	-89.38	8.57
87+00	-104.26	11.30
87+00	-133.24	10.48
87+00	-176.50	26.41
87+00	-180.38	26.16

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
88+00	181.84	26.14
88+00	176.93	26.05
88+00	174.54	25.76
88+00	156.35	19.25
88+00	143.90	17.99
88+00	127.06	9.54
88+00	114.09	9.87
88+00	99.28	14.22
88+00	87.25	7.60
88+00	44.19	7.01
88+00	1.65	6.84
88+00	-18.65	3.22
88+00	-94.50	9.55
88+00	-102.88	11.58
88+00	-132.46	10.82
88+00	-176.44	26.63
88+00	-180.60	26.33
89+00	181.68	26.14
89+00	177.18	26.01
89+00	174.47	25.67
89+00	129.89	10.26
89+00	118.90	11.05
89+00	100.18	13.55
89+00	94.71	8.14
89+00	41.03	6.69
89+00	-13.85	7.09
89+00	-19.85	5.25
89+00	-58.87	8.06
89+00	-88.84	8.79
89+00	-100.55	12.05
89+00	-135.74	11.03
89+00	-141.03	14.29
89+00	-176.07	26.58
89+00	-179.70	26.48
90+00	181.85	26.38
90+00	177.23	26.32
90+00	174.99	26.12
90+00	156.91	19.67
90+00	147.31	18.65
90+00	132.47	10.85
90+00	121.32	10.69
90+00	104.30	14.22
90+00	99.22	8.47
90+00	53.03	4.85

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
90+00	19.10	3.53
90+00	-4.33	5.24
90+00	-35.88	10.03
90+00	-63.04	8.48
90+00	-92.83	8.37
90+00	-102.86	12.37
90+00	-134.62	12.00
90+00	-175.75	26.69
90+00	-179.70	26.58
91+00	181.79	26.32
91+00	177.31	26.26
91+00	175.25	26.08
91+00	154.84	19.23
91+00	146.90	18.87
91+00	129.79	11.60
91+00	115.62	11.35
91+00	106.21	13.60
91+00	101.81	8.56
91+00	74.56	7.06
91+00	68.75	3.96
91+00	-38.01	9.21
91+00	-53.86	8.76
91+00	-92.65	8.94
91+00	-105.41	11.62
91+00	-130.27	11.48
91+00	-175.64	27.06
91+00	-179.96	26.86
92+00	181.99	24.34
92+00	177.33	24.41
92+00	175.14	24.10
92+00	159.88	19.65
92+00	152.12	18.27
92+00	136.30	12.77
92+00	124.90	12.64
92+00	109.37	13.53
92+00	102.77	8.54
92+00	80.32	6.64
92+00	56.79	2.67
92+00	-8.91	5.79
92+00	-48.44	8.88
92+00	-93.70	8.54
92+00	-102.97	11.67
92+00	-136.95	12.73
92+00	-175.48	27.14

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
92+00	-178.89	26.95
93+00	187.56	21.71
93+00	176.56	17.54
93+00	164.49	17.26
93+00	153.16	16.83
93+00	137.24	15.02
93+00	122.75	14.31
93+00	106.61	8.86
93+00	75.73	6.59
93+00	66.62	3.35
93+00	3.09	6.90
93+00	-49.28	8.98
93+00	-92.43	8.79
93+00	-102.59	11.88
93+00	-133.17	11.68
93+00	-175.52	27.08
93+00	-179.76	26.86
94+00	165.11	15.21
94+00	156.81	15.75
94+00	145.26	15.68
94+00	139.28	15.35
94+00	112.03	10.12
94+00	102.97	6.25
94+00	71.34	4.91
94+00	16.98	4.36
94+00	-3.15	9.49
94+00	-40.34	9.53
94+00	-59.91	9.41
94+00	-91.19	8.84
94+00	-106.75	12.58
94+00	-136.71	12.83
94+00	-175.68	26.89
94+00	-180.25	26.77
95+00	180.62	18.54
95+00	174.41	18.55
95+00	163.17	18.54
95+00	160.21	18.38
95+00	149.08	15.78
95+00	134.13	12.51
95+00	113.43	12.95
95+00	109.20	8.17
95+00	66.59	4.27
95+00	13.77	6.15

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
95+00	3.32	9.99
95+00	-22.89	9.61
95+00	-52.36	8.62
95+00	-89.93	8.65
95+00	-105.81	12.78
95+00	-136.32	13.56
95+00	-176.04	26.98
95+00	-180.57	26.74
96+00	183.43	25.51
96+00	178.34	25.59
96+00	175.36	25.36
96+00	162.55	19.40
96+00	154.80	18.30
96+00	144.50	12.82
96+00	127.73	11.94
96+00	113.39	14.35
96+00	101.57	8.11
96+00	54.93	4.59
96+00	-3.94	6.44
96+00	-30.58	10.35
96+00	-55.49	9.07
96+00	-90.27	8.64
96+00	-103.66	11.09
96+00	-142.44	15.25
96+00	-176.26	27.17
96+00	-179.23	27.02
97+00	183.63	26.97
97+00	179.12	26.96
97+00	176.25	26.77
97+00	163.07	20.56
97+00	157.56	19.90
97+00	140.06	12.56
97+00	130.30	12.41
97+00	110.01	15.19
97+00	98.58	7.33
97+00	48.18	4.35
97+00	-10.46	6.79
97+00	-19.70	9.39
97+00	-35.52	8.72
97+00	-56.13	9.99
97+00	-77.00	9.17
97+00	-109.84	11.17
97+00	-148.52	20.91
97+00	-168.29	23.69

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

2019 GROUND DATA

STATION	OFFSET	ELEV.
97+00	-176.61	27.15
97+00	-180.29	27.01
98+00	183.10	26.98
98+00	178.91	26.97
98+00	175.81	26.69
98+00	149.96	15.46
98+00	134.36	12.81
98+00	108.65	13.84
98+00	98.08	7.82
98+00	39.94	5.80
98+00	-13.38	6.88
98+00	-32.52	10.84
98+00	-66.74	11.35
98+00	-101.10	8.63
98+00	-138.70	12.68
98+00	-147.64	16.41
98+00	-176.23	27.44
98+00	-180.57	27.21

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
82+00	-195.70	24.77
82+00	-175.78	24.77
82+00	-175.70	24.77
82+00	-175.54	24.71
82+00	-134.71	11.10
82+00	-134.57	11.10
82+00	-100.70	11.10
82+00	-83.77	5.02
82+00	-83.70	5.00
82+00	-1.04	5.00
82+00	-0.70	5.00
82+00	81.96	5.00
82+00	82.30	5.00
82+00	100.23	10.98
82+00	100.30	11.00
82+00	100.41	11.00
82+00	129.29	11.00
82+00	170.12	25.04
82+00	170.31	25.11
82+00	190.23	25.11
82+00	190.31	25.11
83+00	-195.70	24.60
83+00	-185.78	24.60
83+00	-175.70	24.60
83+00	-155.54	17.88
83+00	-135.21	11.10
83+00	-117.56	11.10
83+00	-100.70	11.10
83+00	-92.27	8.07
83+00	-83.70	5.00
83+00	-42.54	5.00
83+00	-0.70	5.00
83+00	40.46	5.00
83+00	82.30	5.00
83+00	91.23	7.98
83+00	100.81	11.15
83+00	113.91	11.15
83+00	128.29	11.15
83+00	148.62	18.14
83+00	172.31	26.04
83+00	182.23	26.04
83+00	192.31	26.04
84+00	-195.70	24.43
84+00	-175.78	24.43
84+00	-175.70	24.43
84+00	-135.86	11.16
84+00	-135.68	11.10
84+00	-100.81	11.10

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
84+00	-100.69	11.10
84+00	-83.77	5.02
84+00	-83.70	5.00
84+00	-83.37	5.00
84+00	-0.70	5.00
84+00	-0.37	5.00
84+00	82.31	5.00
84+00	82.38	5.02
84+00	101.30	11.30
84+00	127.19	11.30
84+00	127.32	11.30
84+00	174.13	26.91
84+00	174.30	26.96
84+00	194.22	26.96
84+00	194.30	26.96
85+00	-195.70	24.87
85+00	-185.78	24.87
85+00	-175.70	24.87
85+00	-155.86	18.26
85+00	-133.18	10.70
85+00	-115.82	10.70
85+00	-100.19	10.70
85+00	-91.77	7.67
85+00	-83.70	5.00
85+00	-41.87	5.00
85+00	-0.71	5.00
85+00	41.13	5.00
85+00	82.30	5.00
85+00	91.37	8.02
85+00	100.79	11.15
85+00	113.68	11.15
85+00	129.82	11.15
85+00	153.13	18.92
85+00	174.30	25.98
85+00	184.22	25.98
85+00	194.30	25.98
86+00	-195.70	25.30
86+00	-195.62	25.30
86+00	-175.70	25.30
86+00	-130.88	10.36
86+00	-130.70	10.30
86+00	-130.58	10.30
86+00	-99.71	10.30
86+00	-99.64	10.28
86+00	-83.70	5.00
86+00	-1.05	5.00
86+00	-0.71	5.00
86+00	81.96	5.00

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
86+00	82.30	5.00
86+00	100.22	10.98
86+00	100.29	11.00
86+00	100.41	11.00
86+00	132.29	11.00
86+00	132.47	11.06
86+00	174.30	25.00
86+00	194.22	25.00
86+00	194.30	25.00
87+00	-195.70	25.70
87+00	-185.62	25.70
87+00	-175.70	25.70
87+00	-153.38	18.26
87+00	-130.70	10.70
87+00	-115.58	10.70
87+00	-100.20	10.70
87+00	-91.64	7.63
87+00	-83.70	5.00
87+00	-42.54	5.00
87+00	-0.71	5.00
87+00	40.46	5.00
87+00	82.30	5.00
87+00	91.22	7.98
87+00	100.29	11.00
87+00	114.91	11.00
87+00	130.79	11.00
87+00	153.47	18.56
87+00	174.30	25.50
87+00	184.22	25.50
87+00	194.30	25.50
88+00	-195.70	26.10
88+00	-195.62	26.10
88+00	-175.70	26.10
88+00	-175.55	26.05
88+00	-130.73	11.11
88+00	-130.60	11.11
88+00	-100.72	11.11
88+00	-100.63	11.08
88+00	-83.69	5.00
88+00	-1.03	5.00
88+00	-0.70	5.00
88+00	-0.37	5.00
88+00	82.29	5.00
88+00	100.22	10.98
88+00	100.31	11.00
88+00	129.19	11.00
88+00	129.32	11.00
88+00	174.13	25.94

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

<u>STATION</u>	<u>OFFSET</u>	<u>ELEV.</u>
88+00	174.30	26.00
88+00	194.22	26.00
88+00	194.30	26.00
89+00	-195.70	25.93
89+00	-185.62	25.93
89+00	-175.70	25.93
89+00	-156.70	19.60
89+00	-134.38	12.16
89+00	-118.55	12.16
89+00	-103.67	12.16
89+00	-91.33	8.03
89+00	-82.89	5.00
89+00	-41.73	5.00
89+00	-0.70	5.00
89+00	40.33	5.00
89+00	81.49	5.00
89+00	90.42	7.98
89+00	101.26	11.60
89+00	115.64	11.60
89+00	131.27	11.60
89+00	153.58	19.04
89+00	174.80	26.12
89+00	184.72	26.12
89+00	194.30	26.12
90+00	-195.69	25.77
90+00	-175.77	25.77
90+00	-175.69	25.77
90+00	-138.14	13.25
90+00	-138.00	13.20
90+00	-137.88	13.20
90+00	-106.60	13.20
90+00	-106.50	13.17
90+00	-82.10	5.00
90+00	-1.03	5.00
90+00	-0.70	5.00
90+00	-0.37	5.00
90+00	80.70	5.00
90+00	102.11	12.17
90+00	102.20	12.20
90+00	133.08	12.20
90+00	133.23	12.20
90+00	175.16	26.18
90+00	175.30	26.22
90+00	194.23	26.22
90+00	194.30	26.22
91+00	-194.69	25.58
91+00	-184.77	25.58

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

STATION	OFFSET	ELEV.
91+00	-174.69	25.58
91+00	-155.99	19.35
91+00	-138.30	13.45
91+00	-122.78	13.45
91+00	-107.20	13.45
91+00	-94.05	9.07
91+00	-81.90	5.00
91+00	-41.53	5.00
91+00	-0.70	5.00
91+00	40.13	5.00
91+00	80.50	5.00
91+00	91.16	8.57
91+00	102.81	12.45
91+00	118.18	12.45
91+00	137.54	12.45
91+00	158.42	19.41
91+00	175.80	25.21
91+00	185.23	25.21
91+00	194.30	25.21
92+00	-193.71	25.40
92+00	-193.63	25.40
92+00	-173.71	25.40
92+00	-173.57	25.35
92+00	-138.62	13.70
92+00	-138.48	13.70
92+00	-107.80	13.70
92+00	-107.69	13.66
92+00	-81.70	5.00
92+00	-1.02	5.00
92+00	-0.70	5.00
92+00	-0.37	5.00
92+00	80.30	5.00
92+00	103.31	12.67
92+00	103.41	12.70
92+00	103.54	12.70
92+00	141.78	12.70
92+00	141.94	12.76
92+00	176.30	24.21
92+00	176.37	24.21
92+00	194.30	24.21
93+00	-194.71	25.49
93+00	-185.13	25.49
93+00	-175.21	25.49
93+00	-158.02	19.75
93+00	-140.62	13.95
93+00	-123.68	13.95
93+00	-108.40	13.95
93+00	-94.44	9.31

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

STATION	OFFSET	ELEV.
93+00	-81.50	5.00
93+00	-41.32	5.00
93+00	-0.70	5.00
93+00	39.93	5.00
93+00	80.10	5.00
93+00	91.56	8.82
93+00	104.01	12.95
93+00	120.34	12.95
93+00	139.38	12.95
93+00	158.69	19.89
93+00	175.80	25.60
93+00	185.37	25.60
93+00	194.30	25.60
94+00	-195.69	25.57
94+00	-176.77	25.57
94+00	-176.69	25.57
94+00	-142.73	14.25
94+00	-142.60	14.20
94+00	-142.47	14.20
94+00	-109.00	14.20
94+00	-108.89	14.16
94+00	-81.30	5.00
94+00	-1.02	5.00
94+00	-0.70	5.00
94+00	-0.38	5.00
94+00	79.90	5.00
94+00	104.50	13.17
94+00	104.61	13.20
94+00	136.88	13.20
94+00	137.01	13.20
94+00	175.16	26.92
94+00	175.30	26.96
94+00	194.22	26.96
94+00	194.30	26.96
95+00	-195.19	25.47
95+00	-185.77	25.47
95+00	-175.69	25.47
95+00	-158.78	19.83
95+00	-142.65	14.45
95+00	-126.22	14.45
95+00	-109.55	14.45
95+00	-94.84	9.56
95+00	-81.10	5.00
95+00	-41.12	5.00
95+00	-0.70	5.00
95+00	39.72	5.00
95+00	79.69	5.00
95+00	91.95	9.07

2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

STATION	OFFSET	ELEV.
95+00	105.17	13.30
95+00	121.24	13.30
95+00	138.51	13.45
95+00	157.51	20.28
95+00	175.30	26.21
95+00	184.72	26.21
95+00	194.30	26.21
96+00	-194.70	25.37
96+00	-174.78	25.37
96+00	-174.70	25.37
96+00	-174.58	25.33
96+00	-142.70	14.70
96+00	-142.62	14.70
96+00	-110.15	14.70
96+00	-110.02	14.66
96+00	-80.94	5.00
96+00	-80.57	5.00
96+00	-0.70	5.00
96+00	79.17	5.00
96+00	79.53	5.00
96+00	105.66	13.37
96+00	105.77	13.40
96+00	139.91	13.70
96+00	140.00	13.70
96+00	140.14	13.75
96+00	175.30	25.47
96+00	194.23	25.47
96+00	194.30	25.47
97+00	-194.70	25.64
97+00	-184.78	25.64
97+00	-174.70	25.64
97+00	-159.43	20.55
97+00	-143.55	15.25
97+00	-132.82	15.25
97+00	-116.65	15.25
97+00	-100.32	9.81
97+00	-85.84	5.00
97+00	-40.47	5.00
97+00	-0.70	5.00
97+00	39.07	5.00
97+00	84.44	5.00
97+00	97.45	9.17
97+00	111.96	14.00
97+00	128.96	14.15
97+00	139.65	14.15
97+00	157.79	20.20
97+00	175.30	26.04
97+00	184.73	26.04

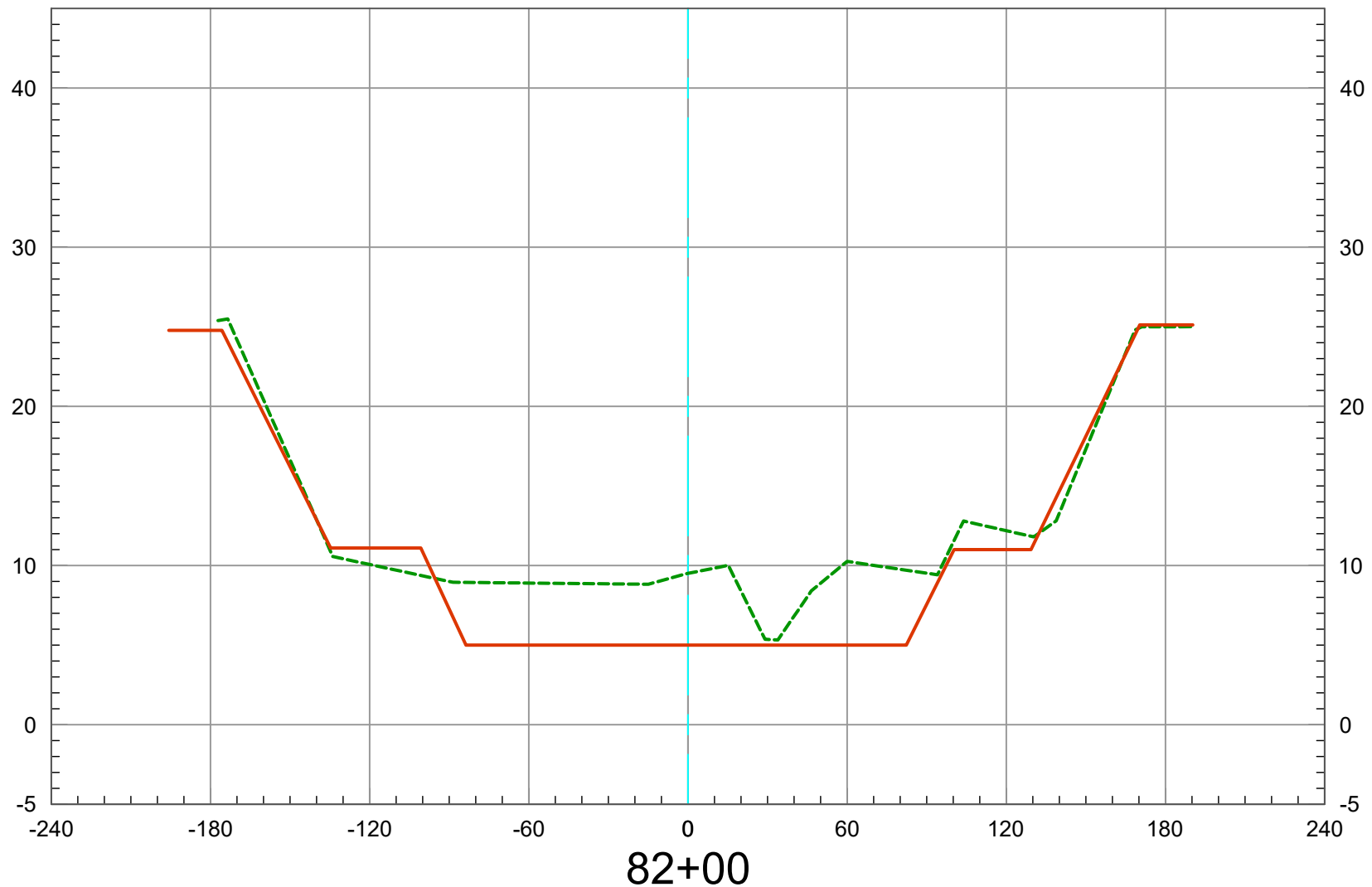
2019 SCOURS

SAN DIEGO CREEK (F05) BASIN # 2

AS-BUILT PLAN DATA

STATION	OFFSET	ELEV.
97+00	194.30	26.04
98+00	-194.70	25.90
98+00	-194.62	25.90
98+00	-174.70	25.90
98+00	-144.52	15.84
98+00	-144.34	15.78
98+00	-123.13	15.78
98+00	-90.86	5.02
98+00	-90.38	5.02
98+00	-0.74	5.02
98+00	-0.71	5.00
98+00	-0.71	5.00
98+00	-0.70	5.00
98+00	-0.69	5.00
98+00	-0.66	5.02
98+00	-0.65	5.02
98+00	88.98	5.02
98+00	89.46	5.02
98+00	118.15	14.59
98+00	139.26	14.59
98+00	139.44	14.65
98+00	175.30	26.60
98+00	175.37	26.60
98+00	194.29	26.60
98+00	194.30	26.60

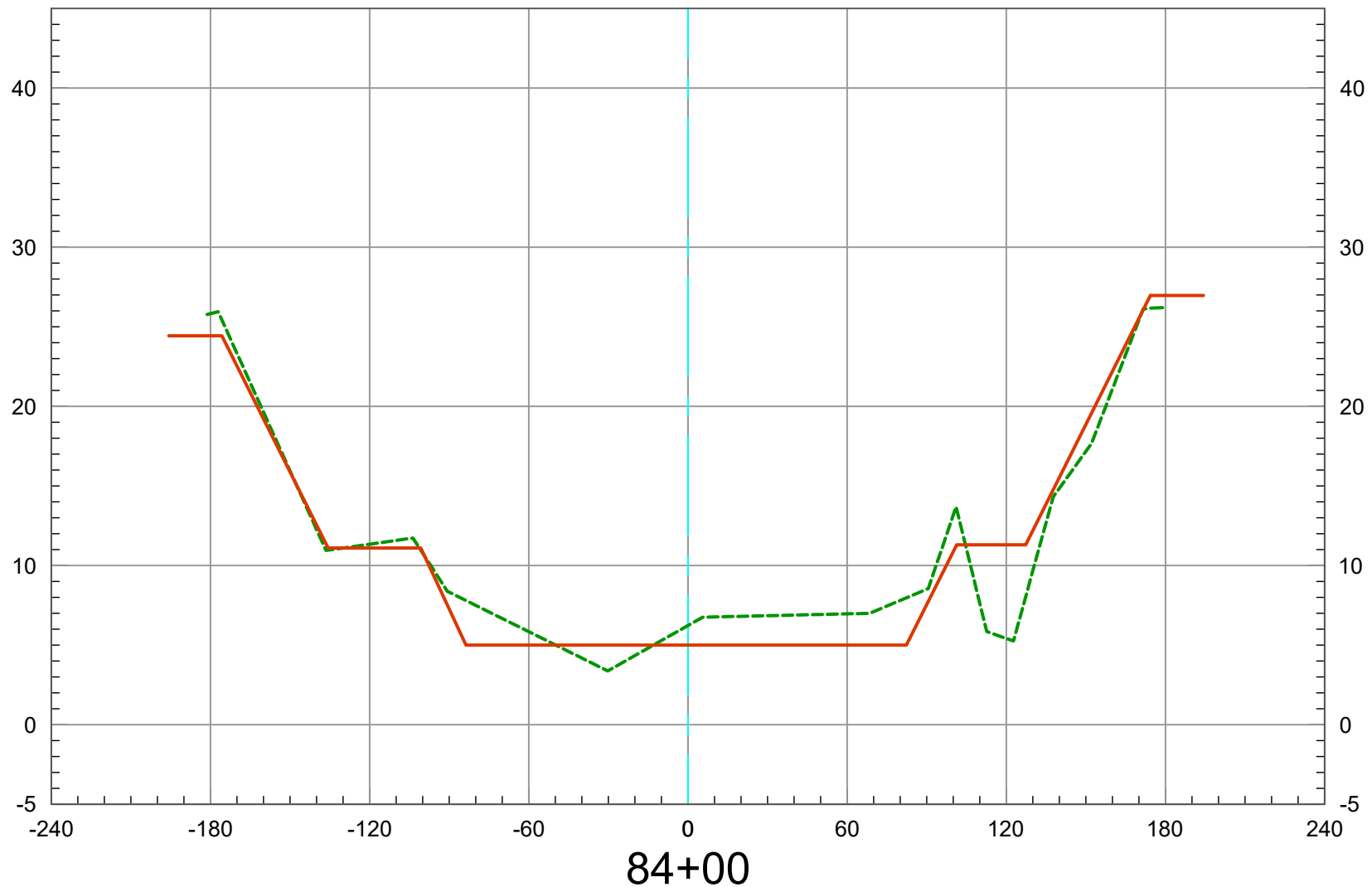
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

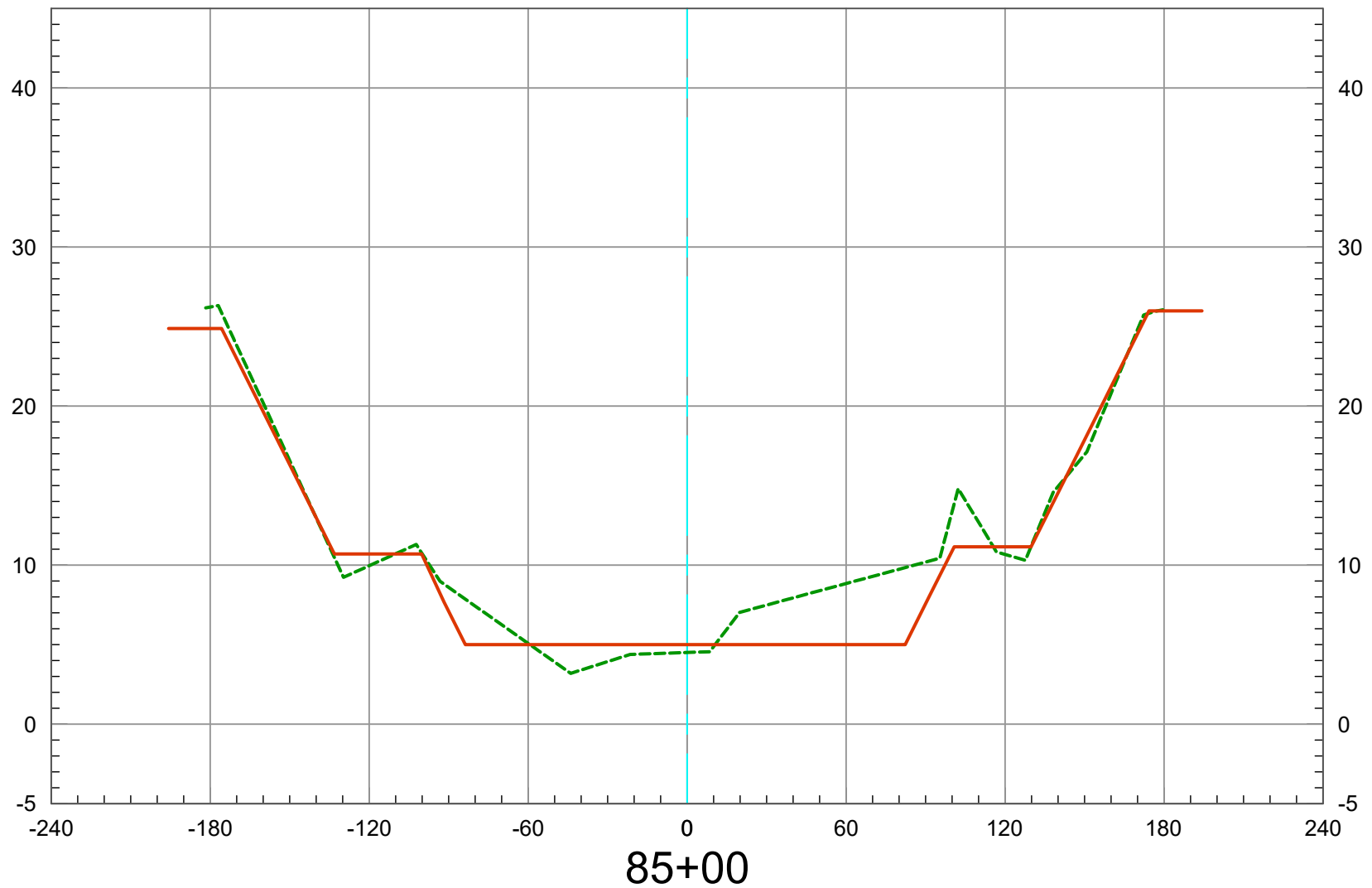
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

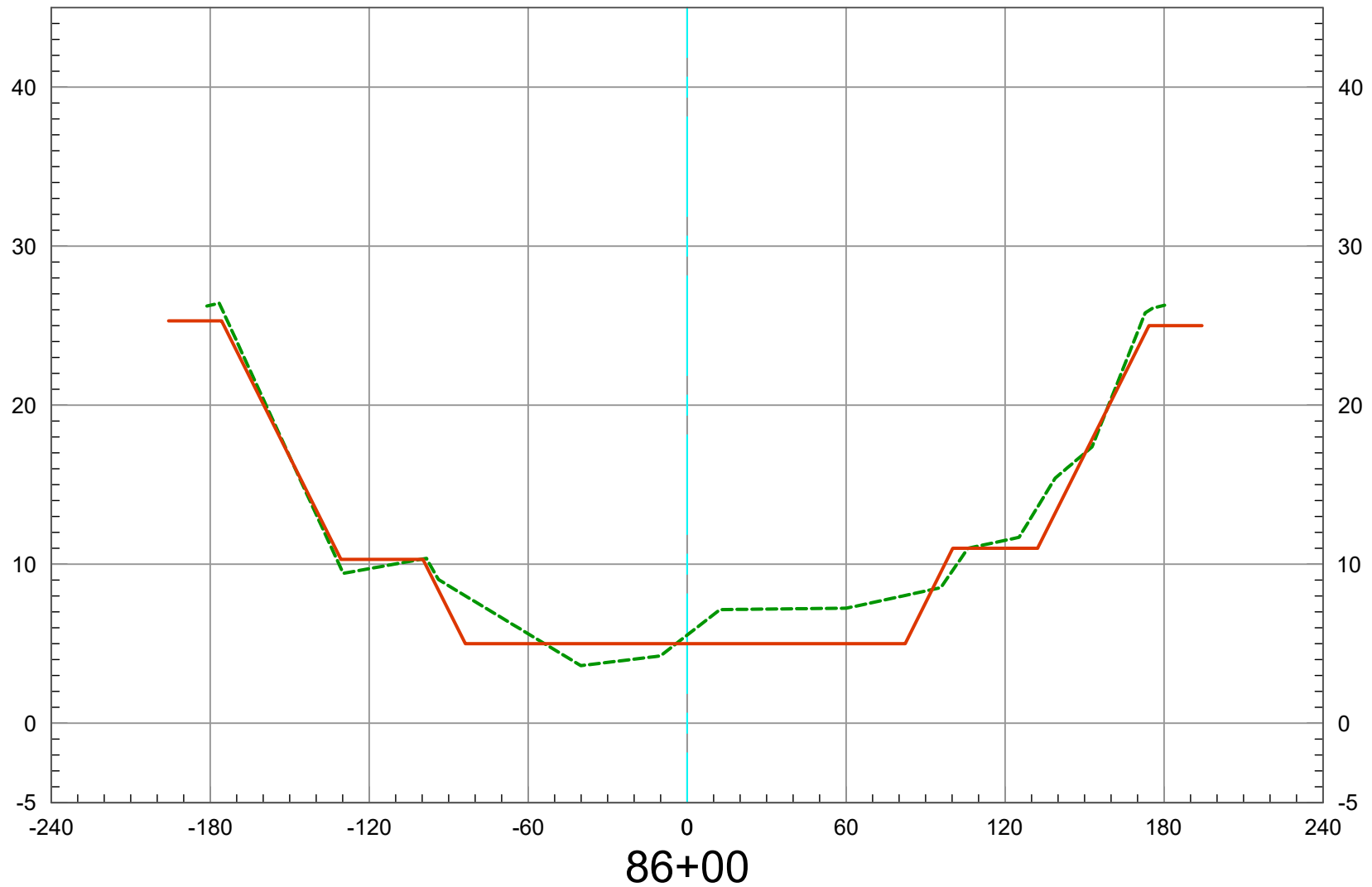
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

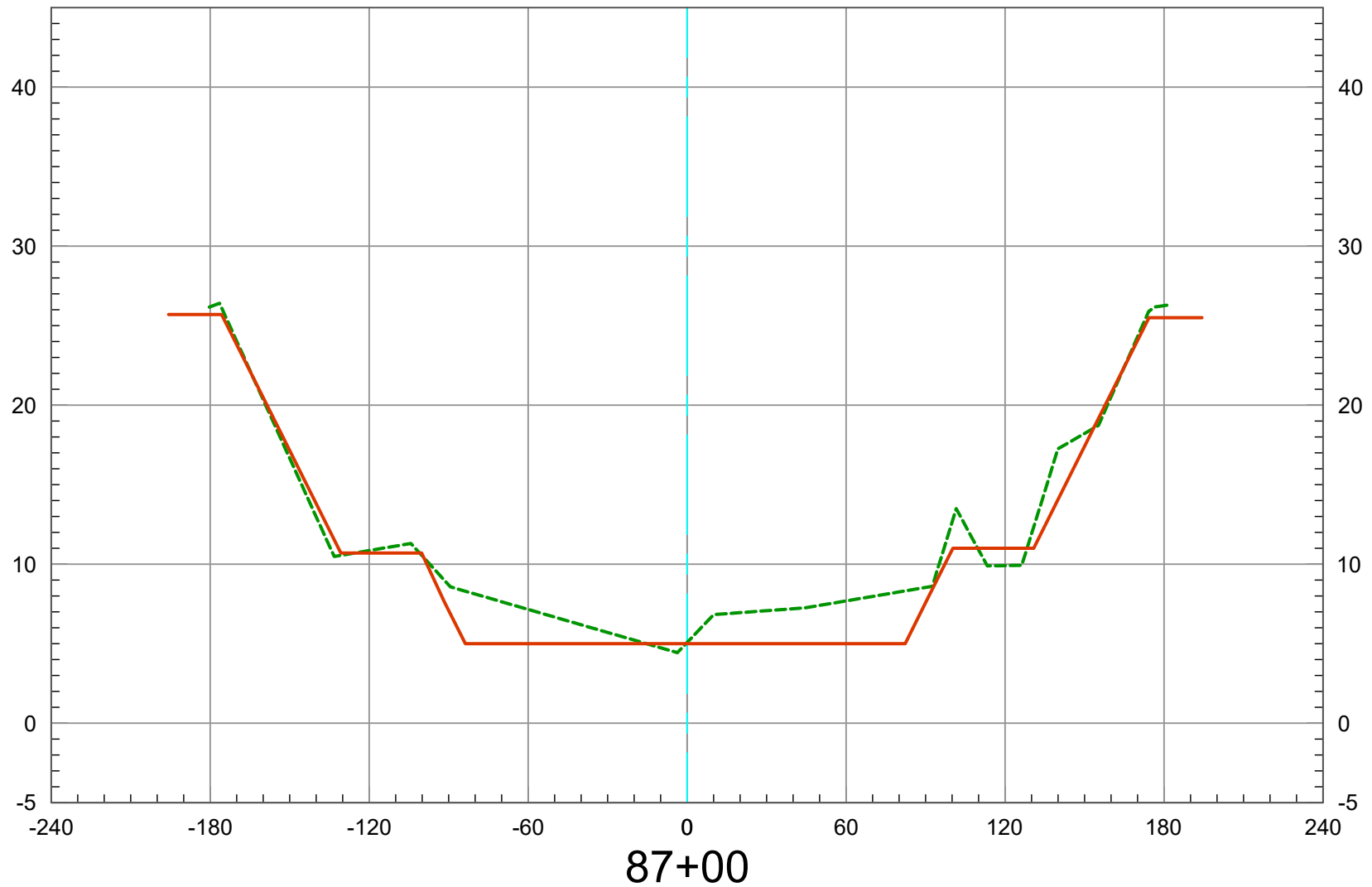
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

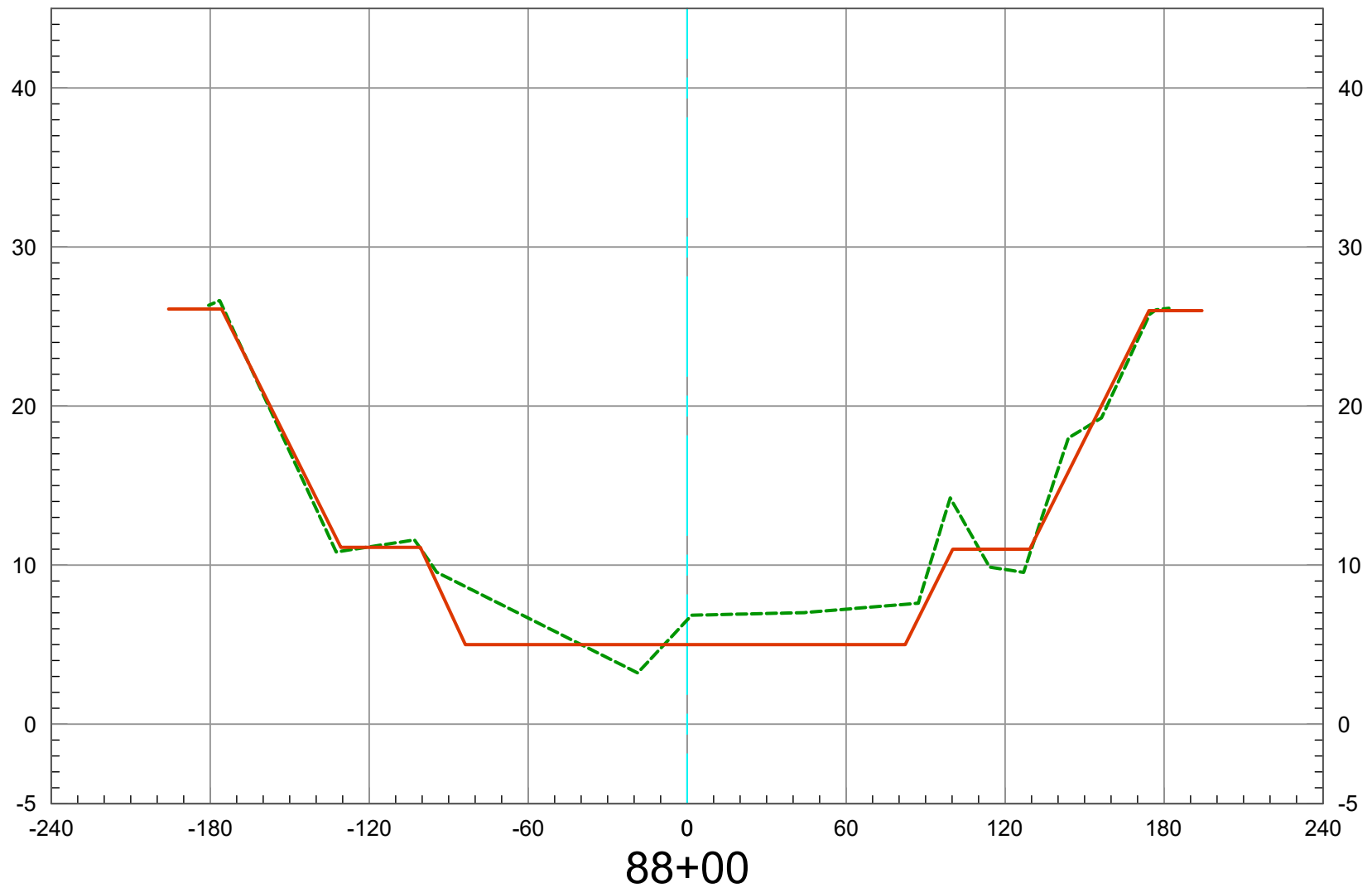
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

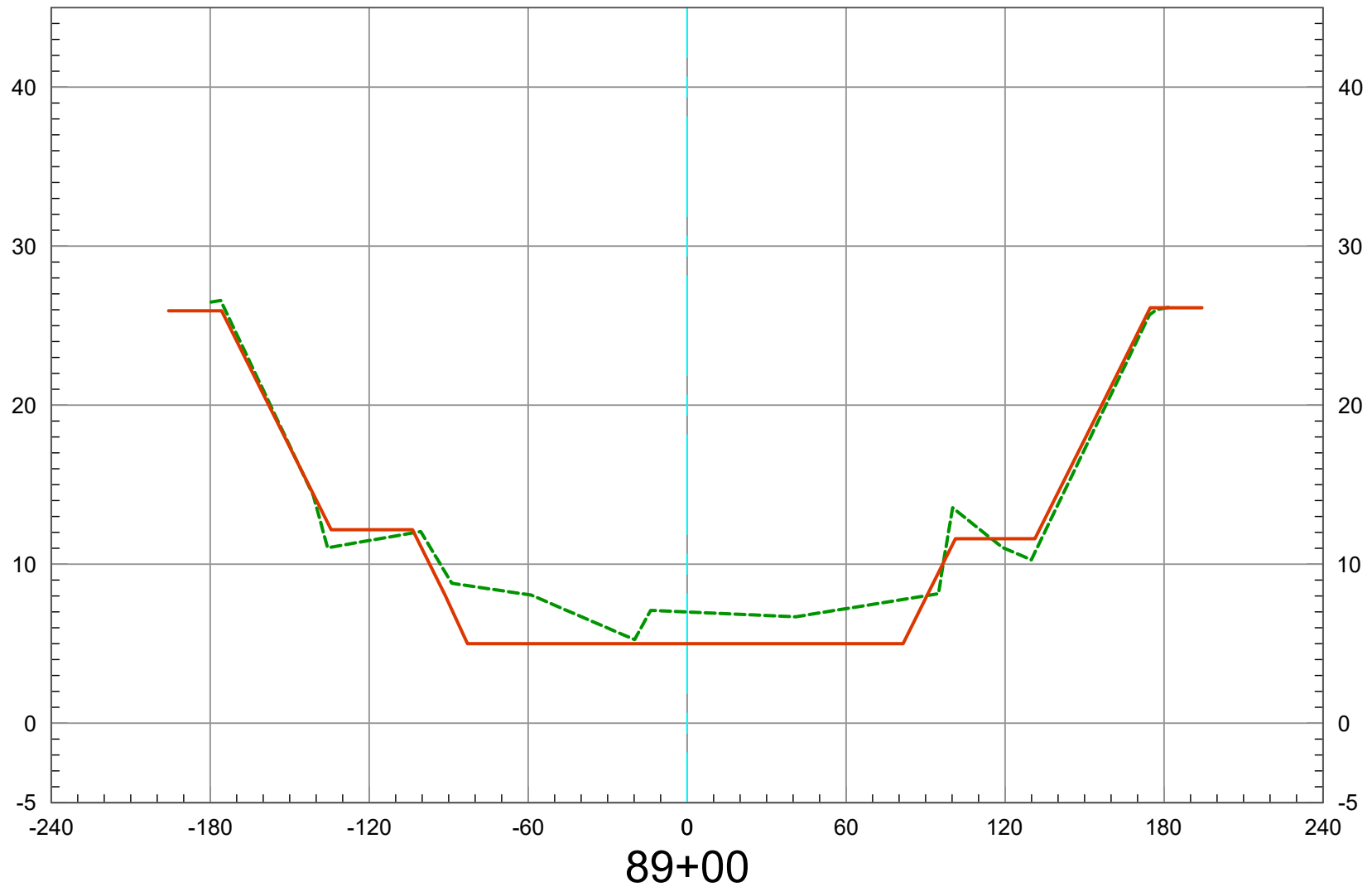
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

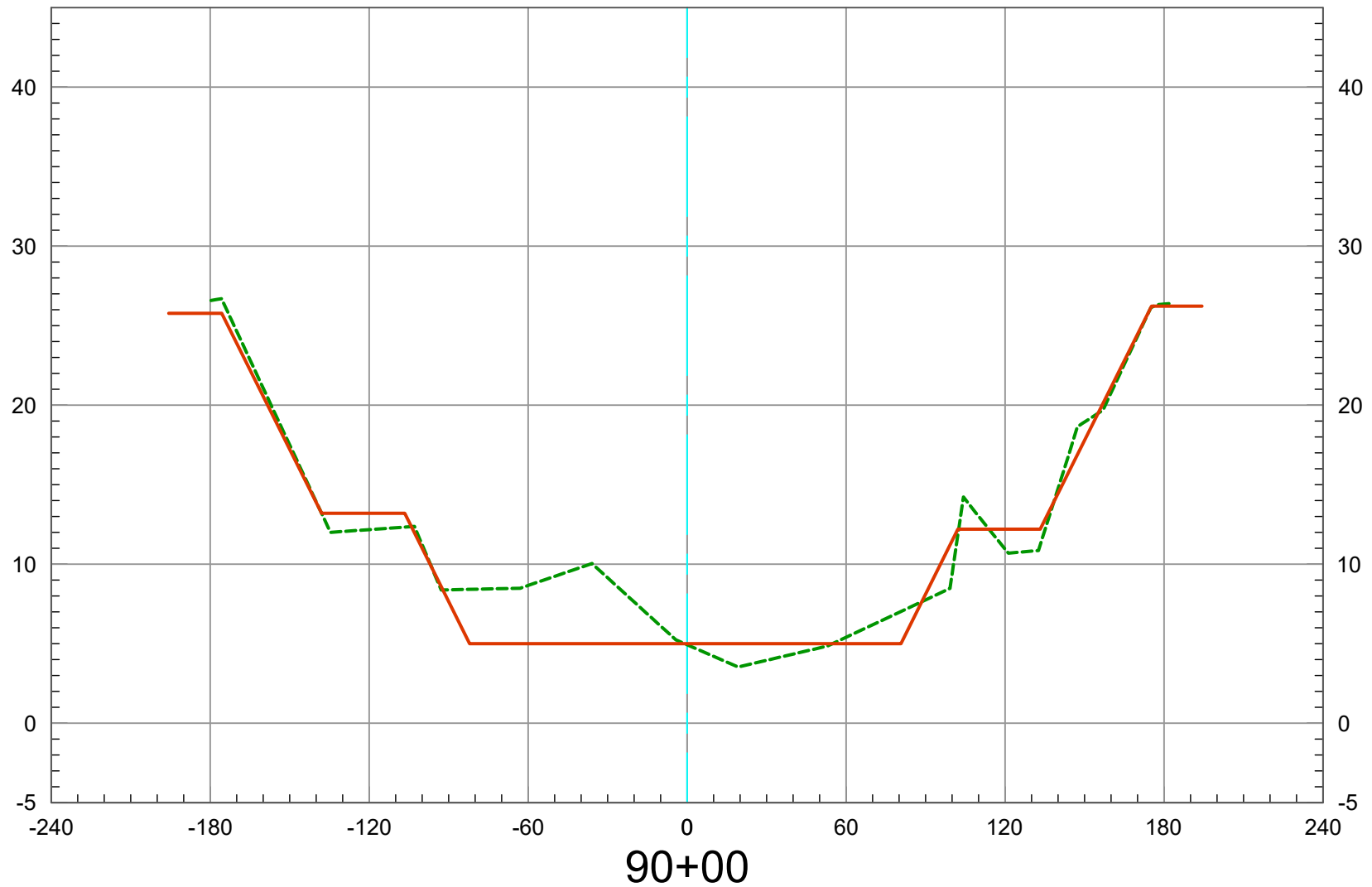
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

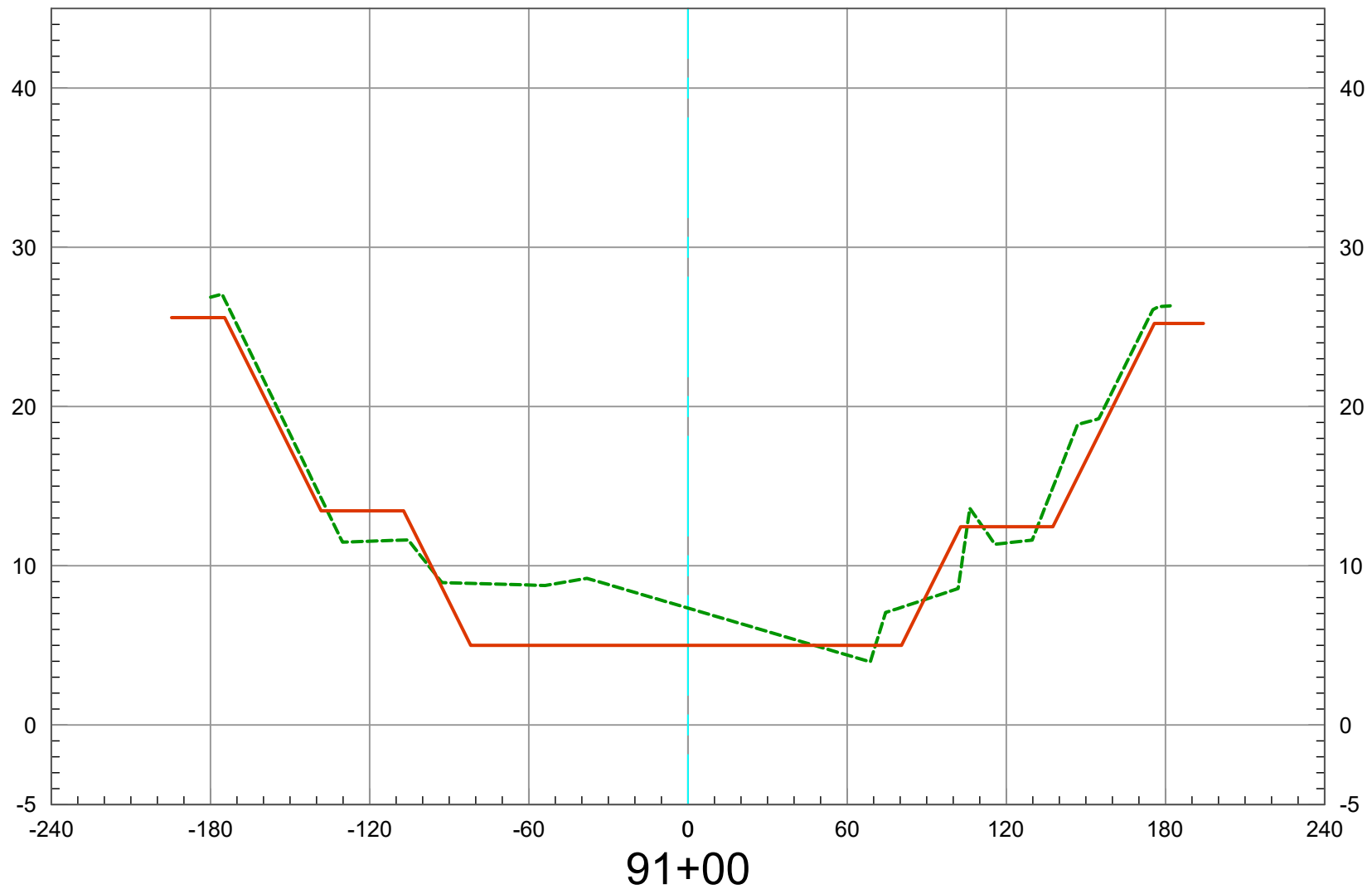
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

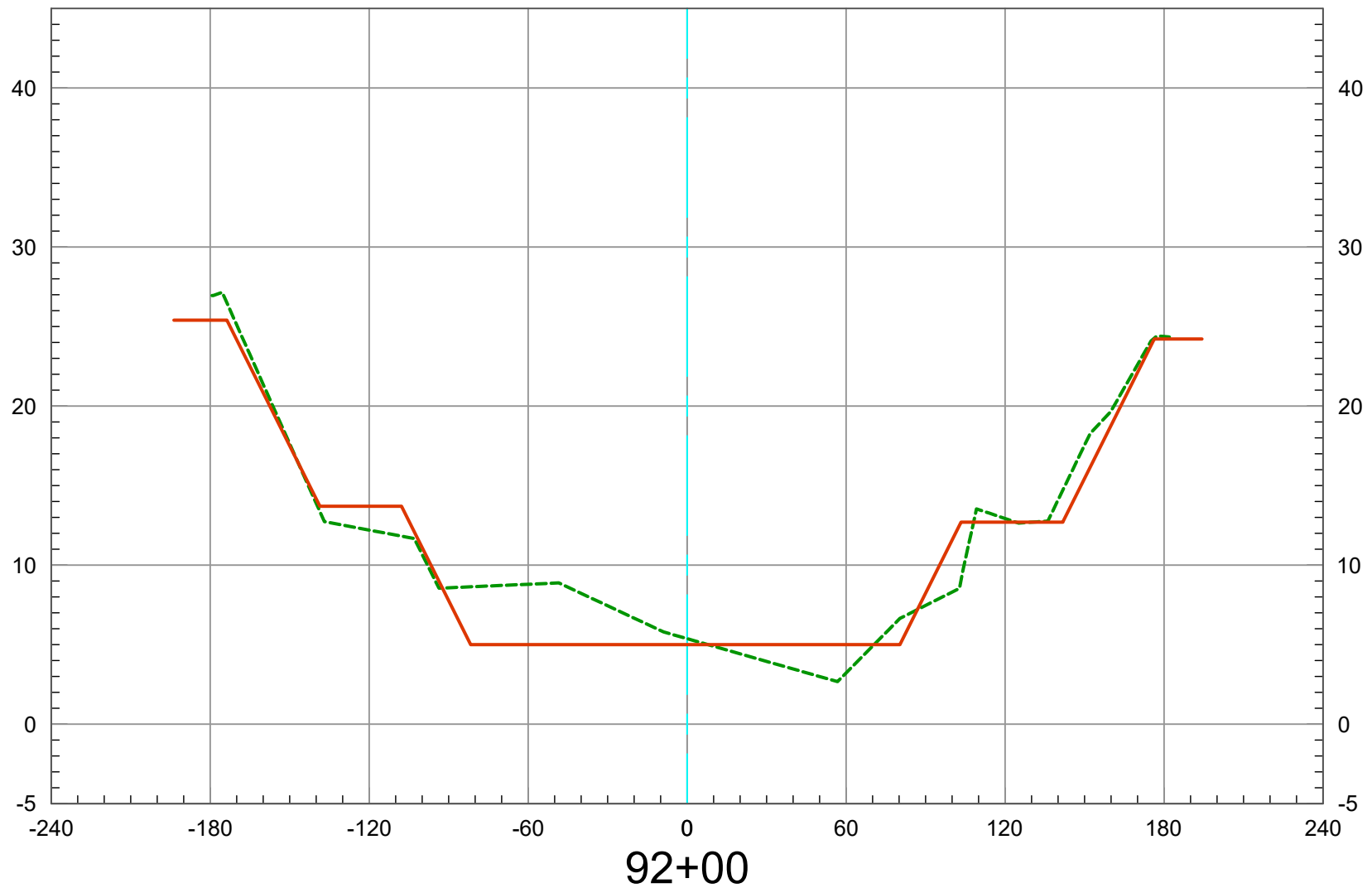
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground 
As-Built Plan 

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

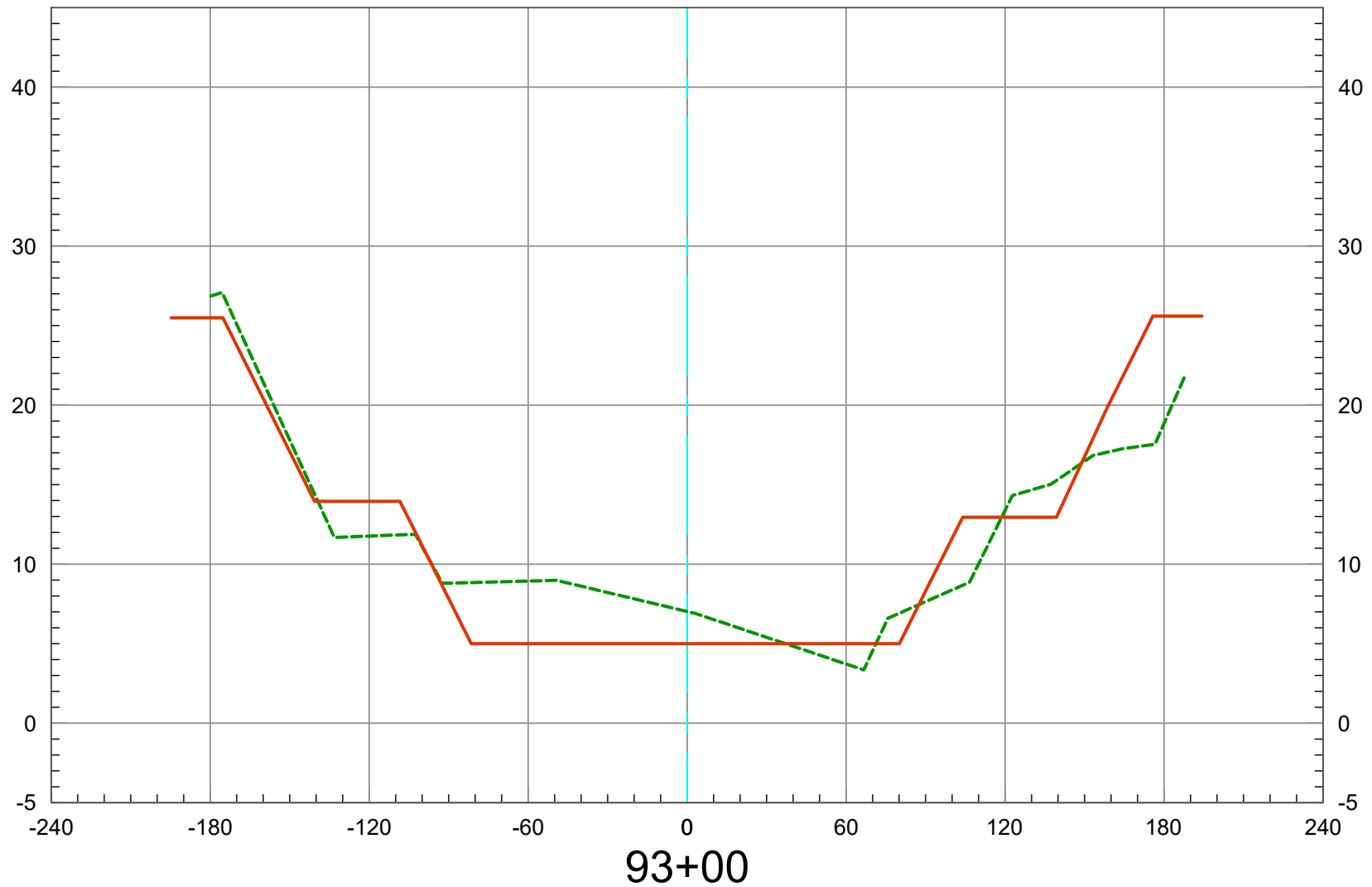
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground 
As-Built Plan 

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

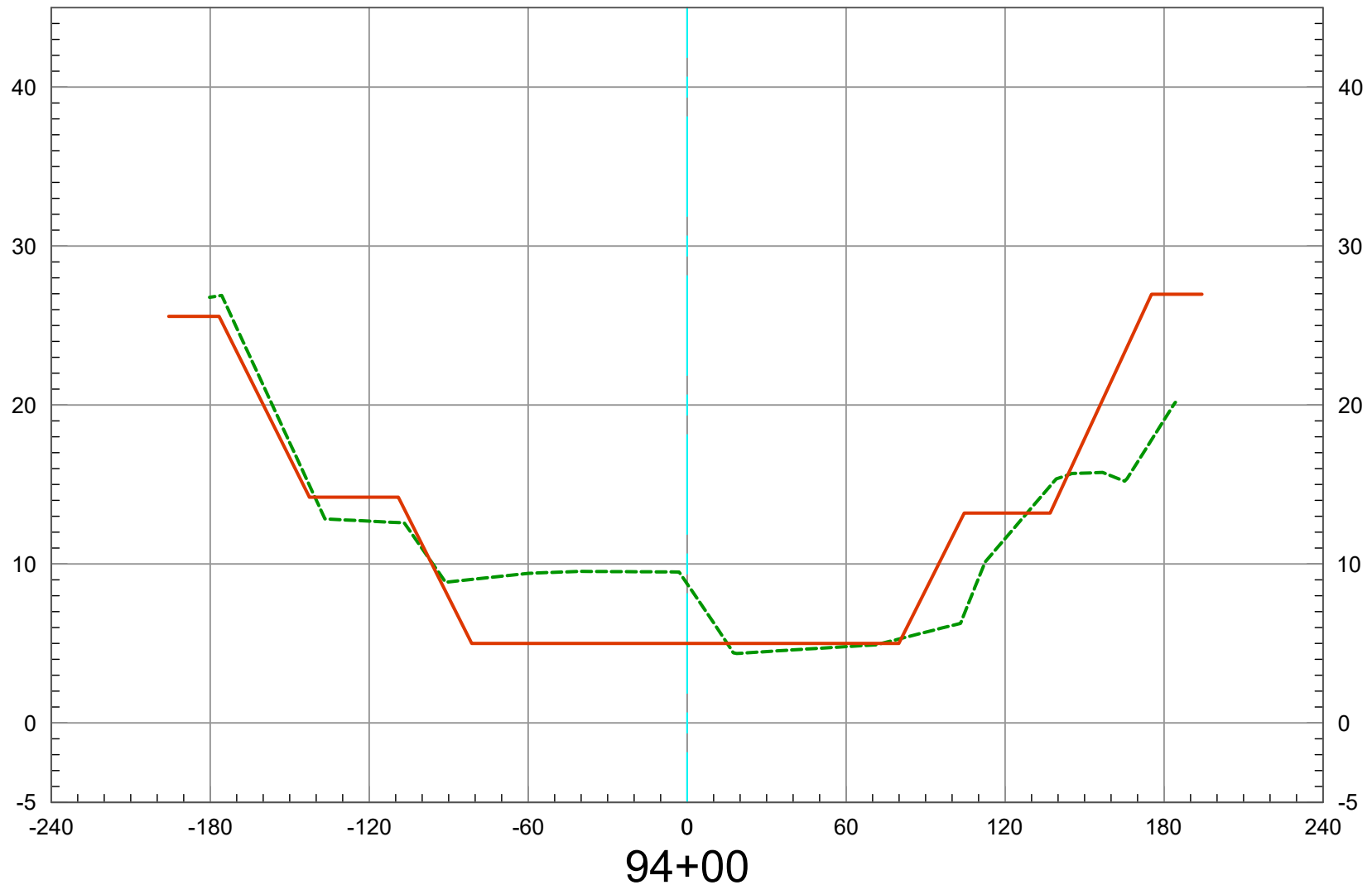
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

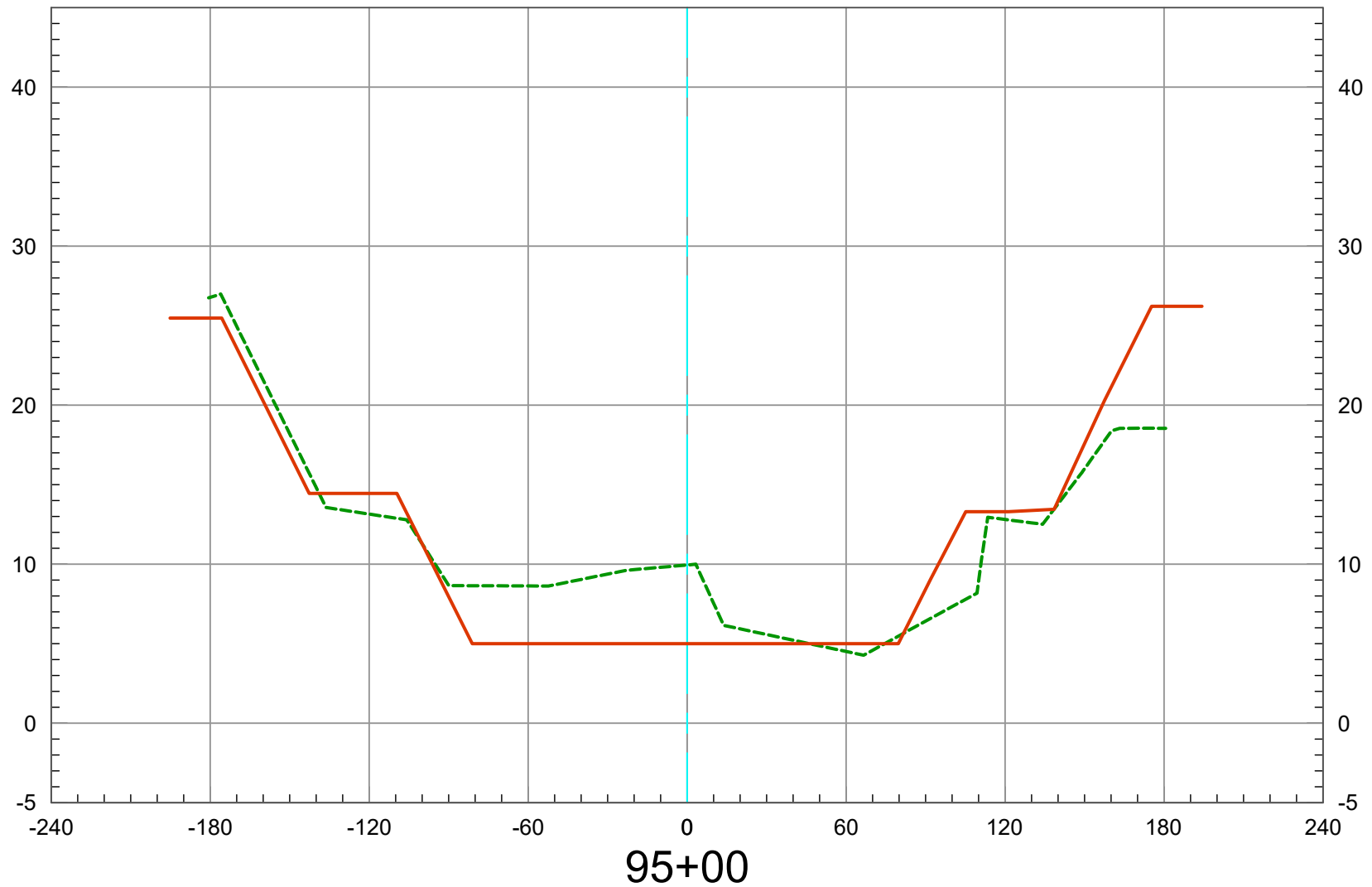
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground 
As-Built Plan 

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

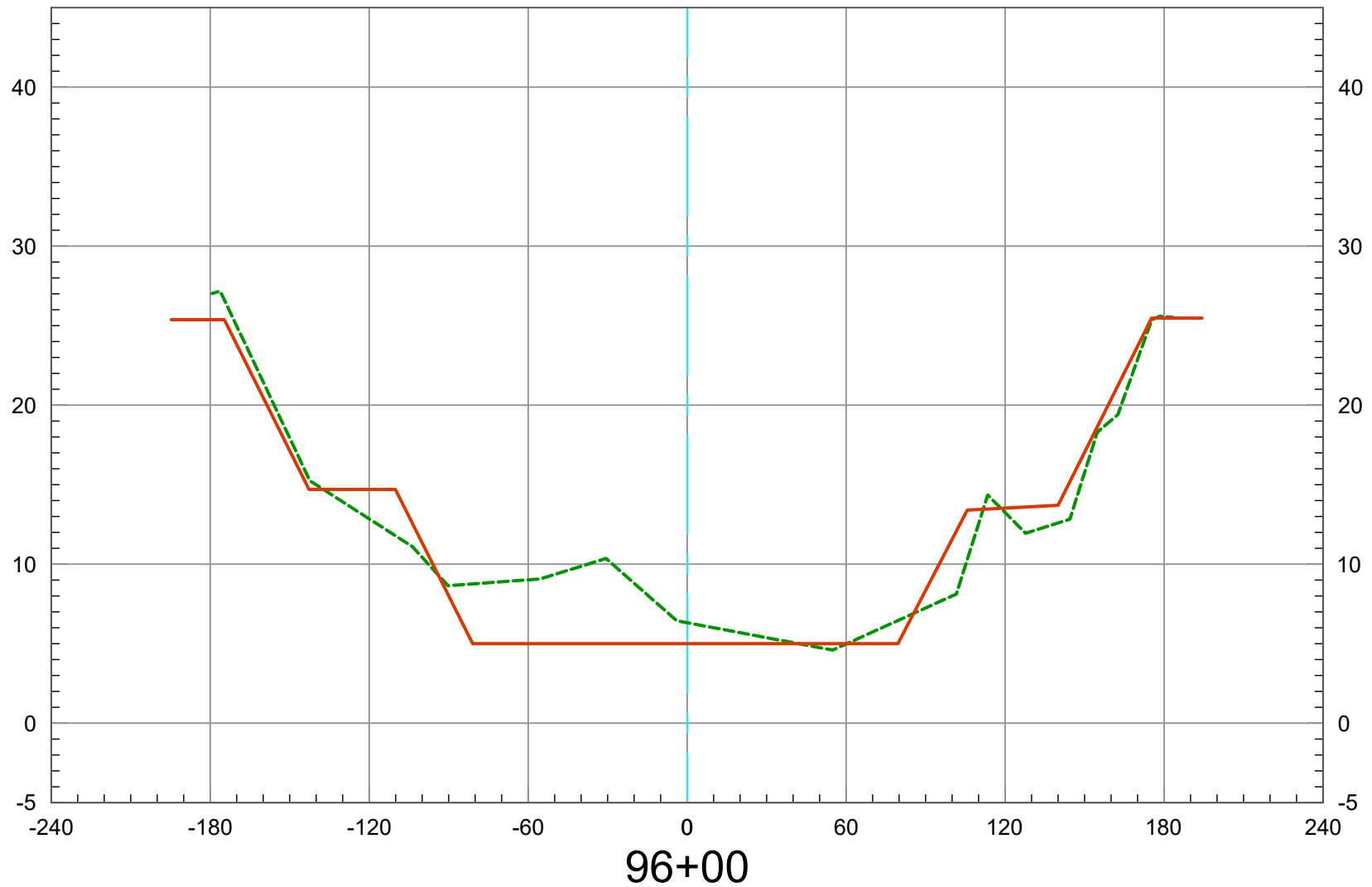
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

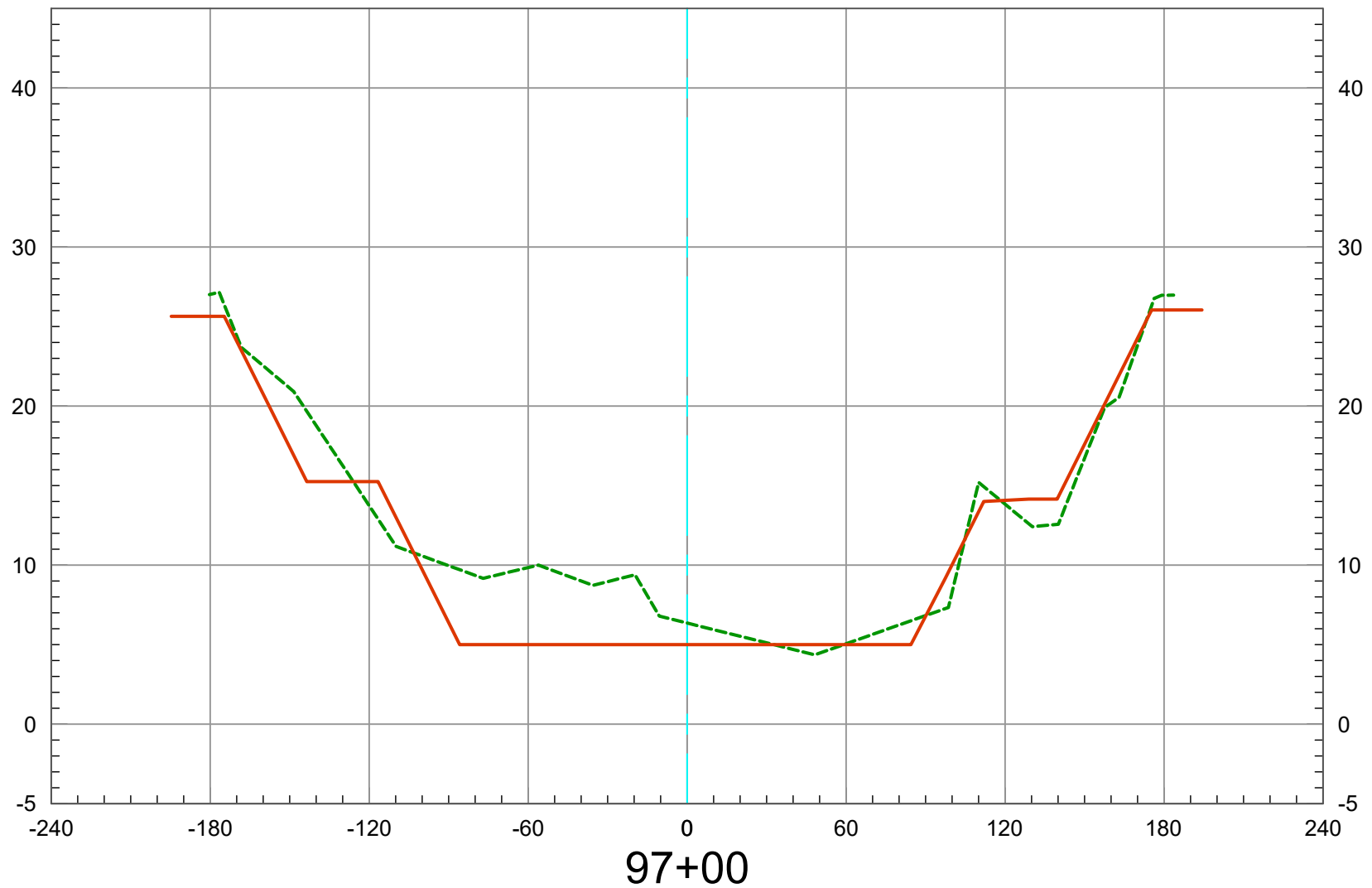
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground 
As-Built Plan 

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

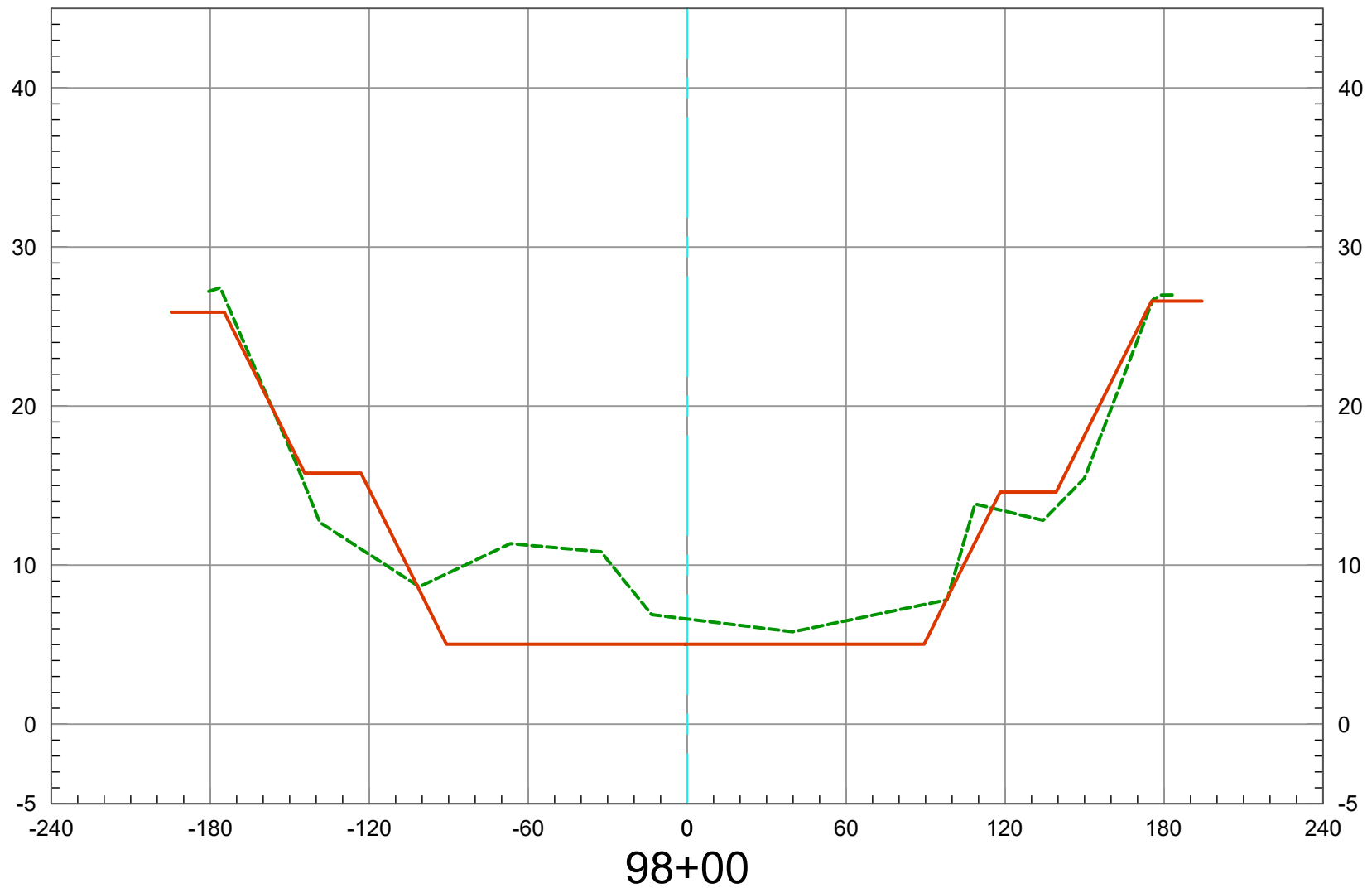
SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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

SAN DIEGO CREEK (F05) BASIN 2 - 2019 SCOURS CL



2019 Ground -----
As-Built Plan —————

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