



# OC PUBLIC WORKS DEPARTMENT

## KEVIN ONUMA, DIRECTOR OF PUBLIC WORKS

### SANTA ANA RIVER (E01)

#### SEDIMENT STUDY



#### BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS "TRAK" AND "FVPK" BEING NORTH 67°14'53.47" WEST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

#### HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00002195.

THIS COMBINATION FACTOR WAS HELD AT: CP# 115  
N: 2200551.90 E: 6049017.48 EL: 42.64'

ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

#### VERTICAL DATUM

NGVD 29  
BENCHMARK:  
CALIFORNIA SPATIAL REFERENCE SYSTEM (CSRS) CONTINUOUSLY OPERATING GLOBAL POSITIONING STATION (CGPS) "FVPK"  
ELEVATION  
(DERIVED ORTHOMETRIC HEIGHT) 77.827' 23.722 (m)  
APPLYING GEOID 12B  
PER DATA SHEET ON FILE WITH THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC)

#### NOTES

THIS IS A AUTOCAD BASED DELIVERABLE WITH A TOPO SURFACE AND DESIGN SURFACE BACKED WITH GEOREFERENCE TIF AERIAL PHOTOS. CROSS SECTIONS WERE DEVELOPED AND ATTACHED HER TO NO PLAN SHEETS WERE DEVELOPED AT THIS TIME.

#### SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET 1	TITLE SHEET

#### BASIS OF STATIONING

THE BASIS OF STATIONING FOR THE BEGINNING OF THE SANTA ANA RIVER ALIGNMENT SHOWN HEREON IS 6+50 PER RECORD DRAWINGS E01-101-29R.

#### PURPOSE OF SURVEY

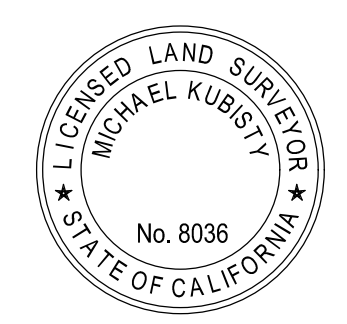
THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP FOR THIS PORTION SANTA ANA RIVER (E01).

#### SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 4 DAY OF JUNE, 2026.

*Michael Kubisty*

**MICHAEL KUBISTY, PLS.** SENIOR LAND SURVEYOR



#### SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 4 DAY OF JUNE, 2026.

*Tate Lofgreen*

**TATE LOFGREEN, PLS.** SENIOR LAND SURVEYOR

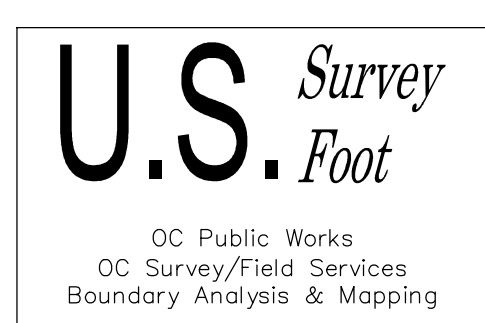


CP# 100  
MAG-SPIKE WITH 1-1/2 INCH BRASS WASHER STAMPED ORANGE COUNTY SURVEYOR CP FLUSH IN AC  
N: 2177555.38'  
E: 6042291.91'

CP# 115  
5/8 INCH REBAR WITH 1-1/2 INCH PUNCHED ALUMINUM CAP STAMPED OCS TCP DOWN 0.1 FOOT IN DIRT  
N: 2200551.90'  
E: 6049017.48'

FOUND CGPS "FVPK"  
N: 2188769.57  
E: 6048756.26  
THIS IS A CONTINUOUS OPERATING GLOBAL POSITIONING STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE SYSTEM (CSRS).

FOUND CGPS "TRAK"  
N: 2171992.61  
E: 6088761.20  
THIS IS A CONTINUOUS OPERATING GLOBAL POSITIONING STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE SYSTEM (CSRS).



## TOPOGRAPHIC MAPPING PROJECT

		COUNTY OF ORANGE OC PUBLIC WORKS OC CONSTRUCTION / SURVEY-FIELD SERVICES	
		<b>SANTA ANA RIVER (E01) SEDIMENT STUDY</b>	
		TITLE SHEET	
		PROJECT LIMITS: FROM END OF JETTES TO 405 FWY	
		DATE OF SURVEY: 04/20/2026	BY: CHIEF & CREW
		MAPPING	BY: I. ISLAS
		OFFICE CHECK	BY: M. KUBISTY, PLS.
		FIELD CHECK	BY: CHIEF & CREW
		SCALE: N.T.S.	W.O. #EF21509
		FILE: SAR_SEDIMENT_SECTIONS_2026.DWG	FILE #2526PW-OP007
MARK	DATE	ITEM	REVISIONS
		SHEET NO. <b>1</b> of <b>1</b>	



2026 PRE DREDGE TOPO

SANTA ANA RIVER CHANNEL (E01)

STATIONS 8+50 to 260+00

AS-BUILT PLANS: 2007 PER FIGURE 4 USACE PROFILE OF UPPER SEDIMENT LEVEL STA. 8+50 TO  
262+20  
& RECORD DRAWING E01-101-29R

HORIZONTAL DATUM: NAD 83 (2017.5 EPOCH)

VERTICAL DATUM: NGVD 29 (O.C.S. 1995 ADJUSTMENT)

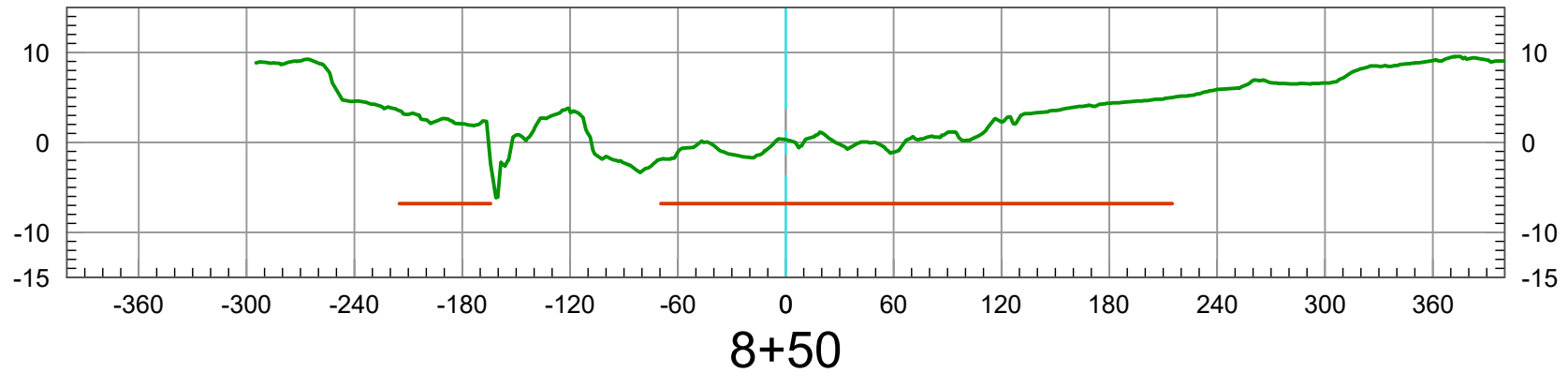
Michael Kubisty, PLS, Senior Land Surveyor

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



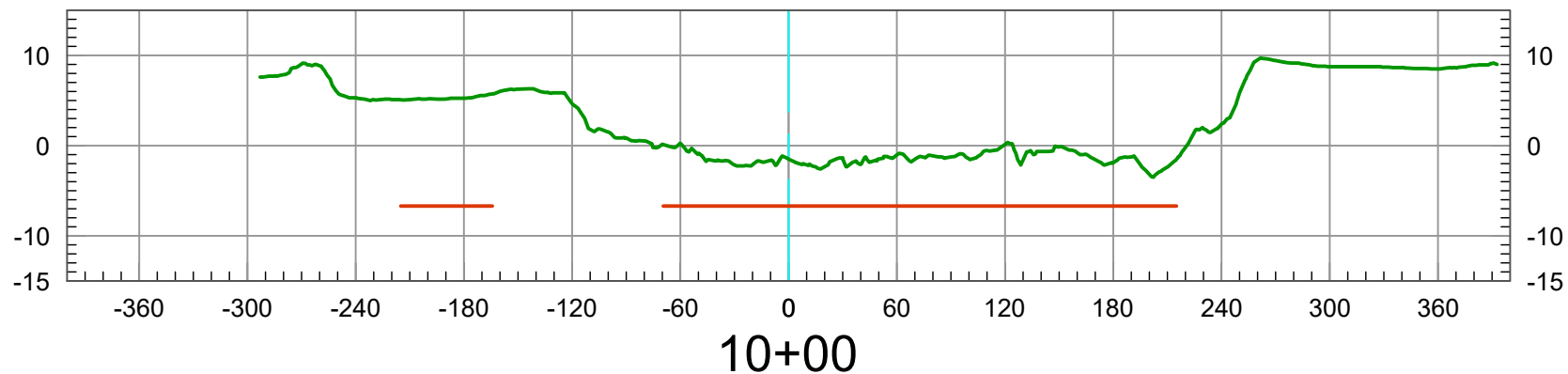
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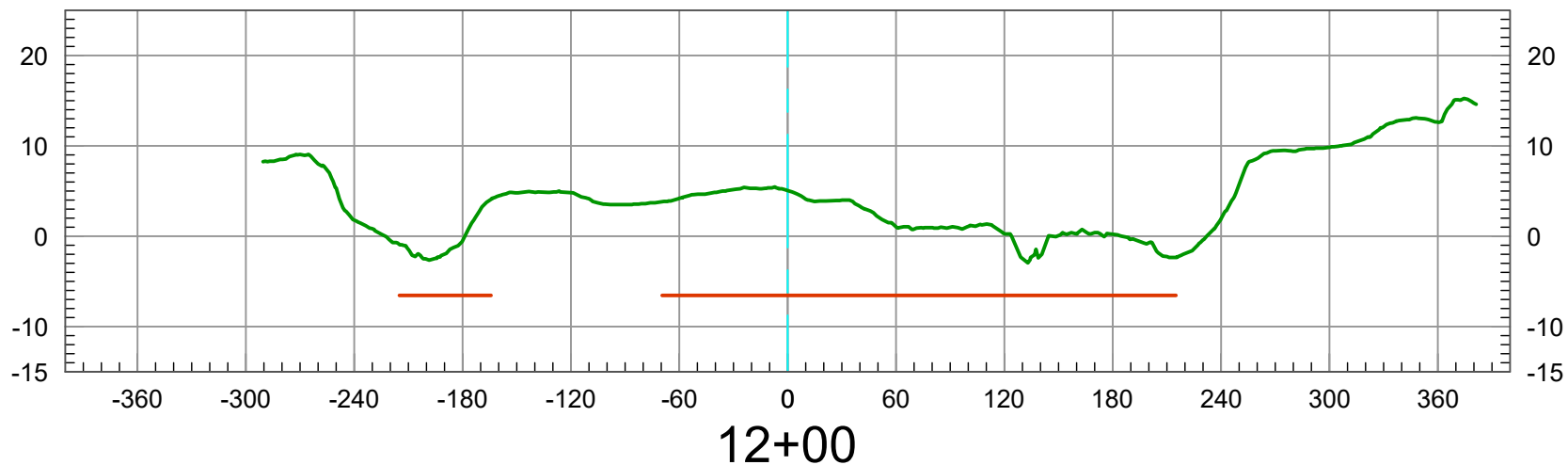
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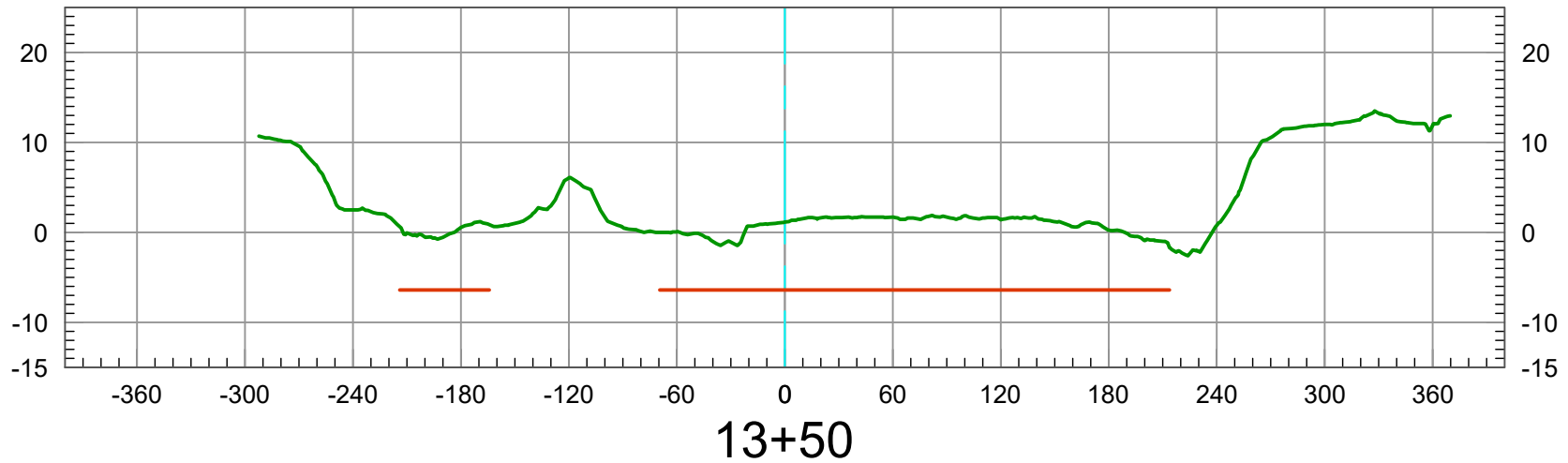
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# SANTA ANA RIVER (E01) GRADE BREAK CL



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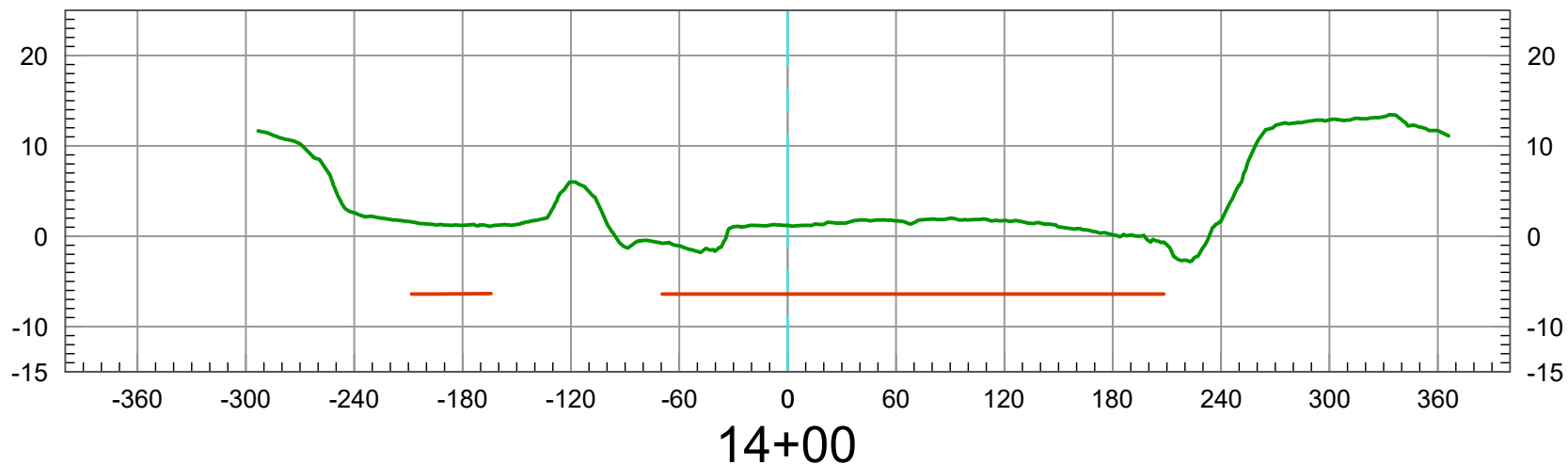
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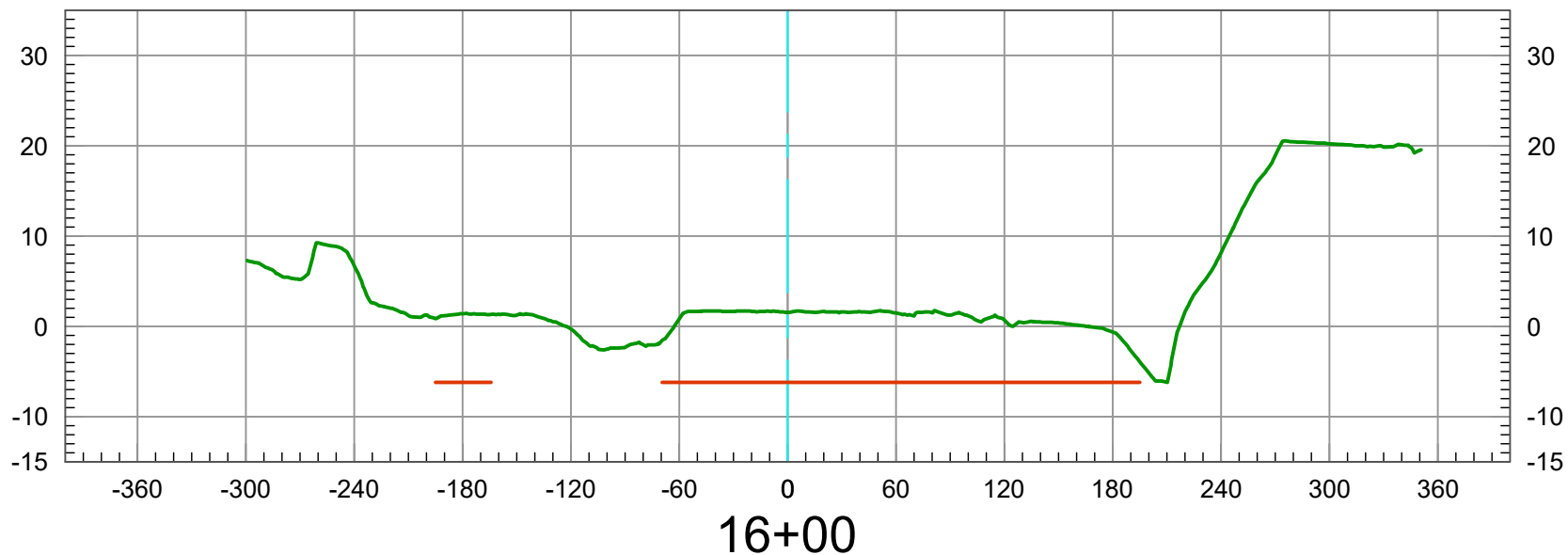
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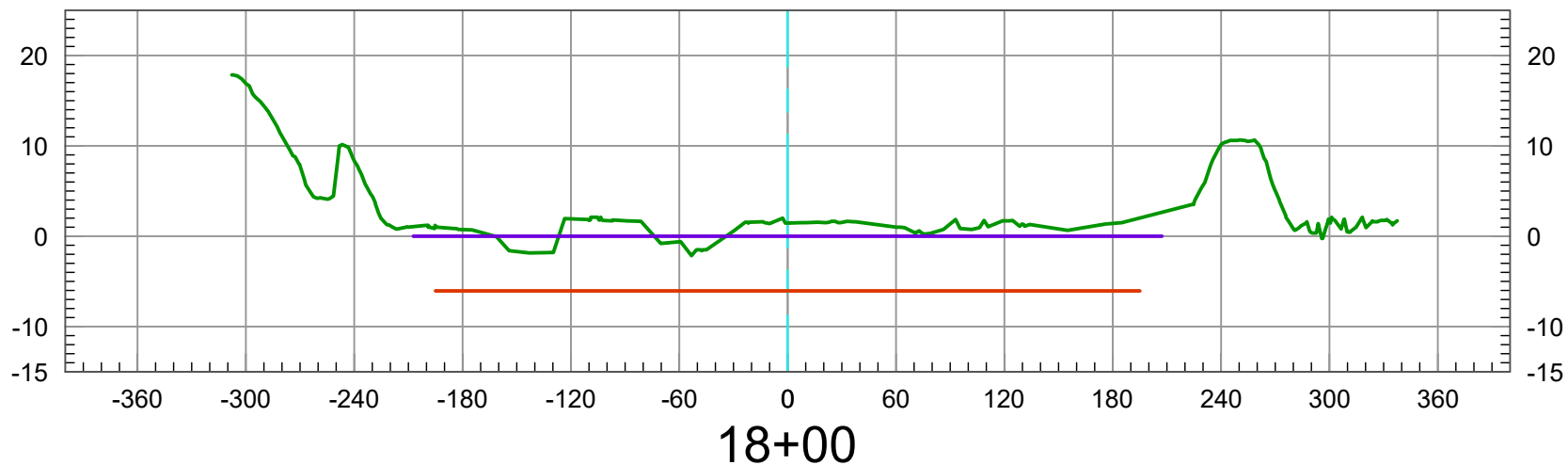
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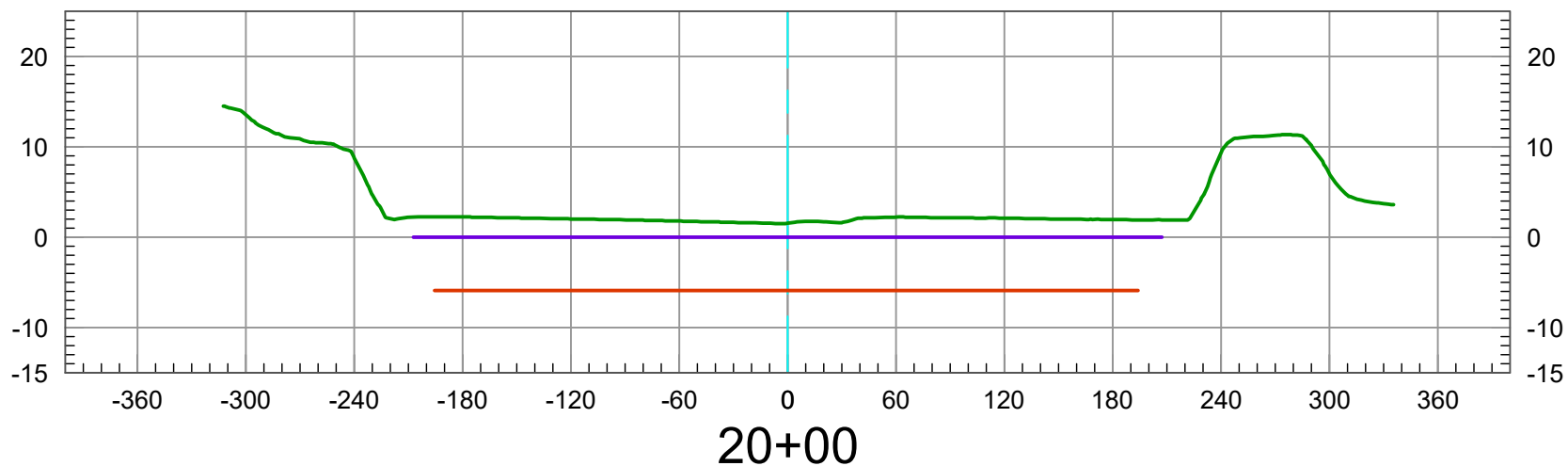
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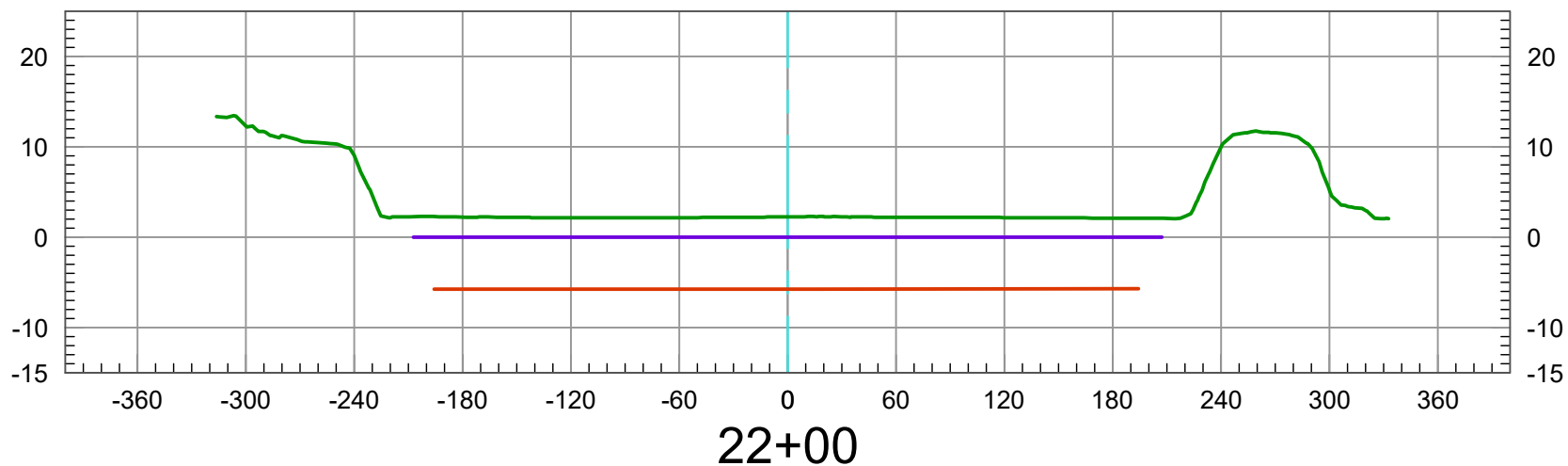
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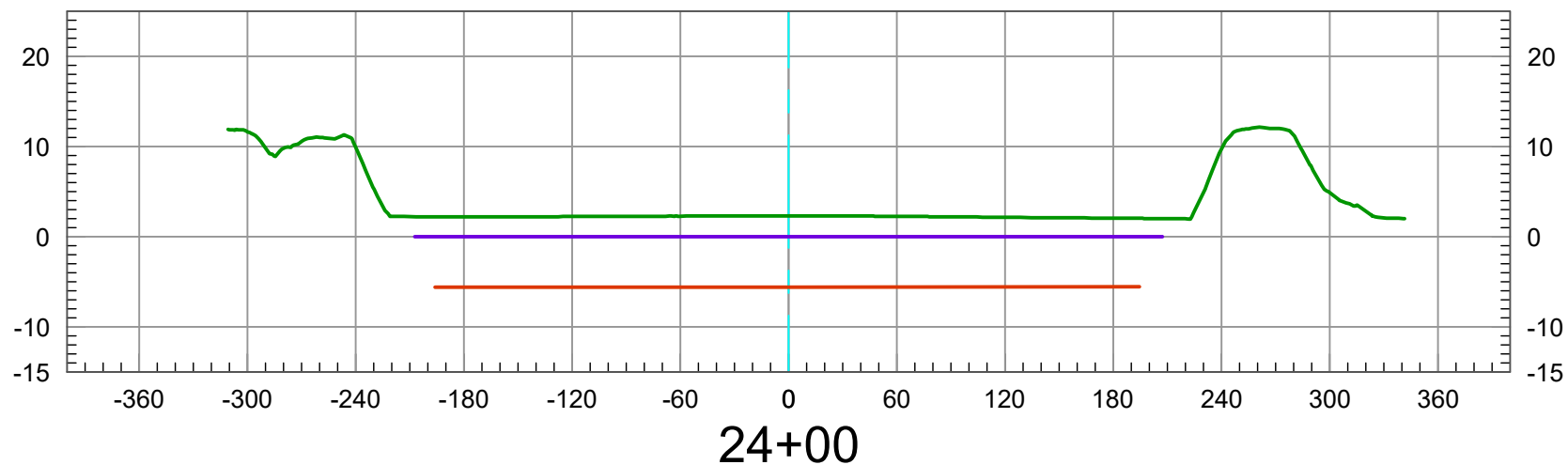
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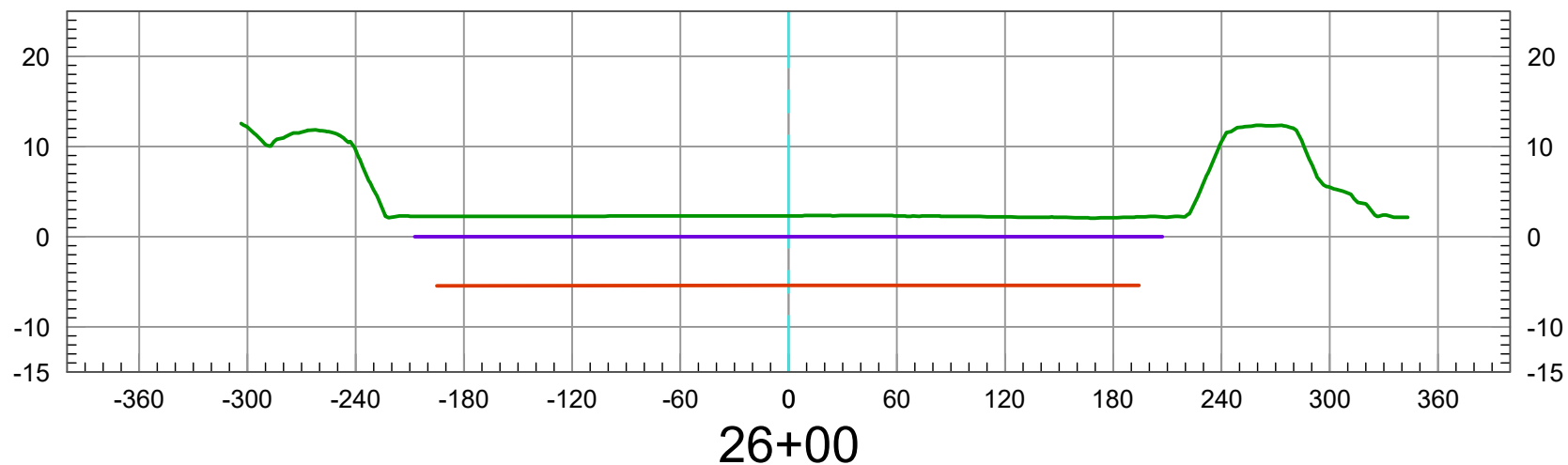
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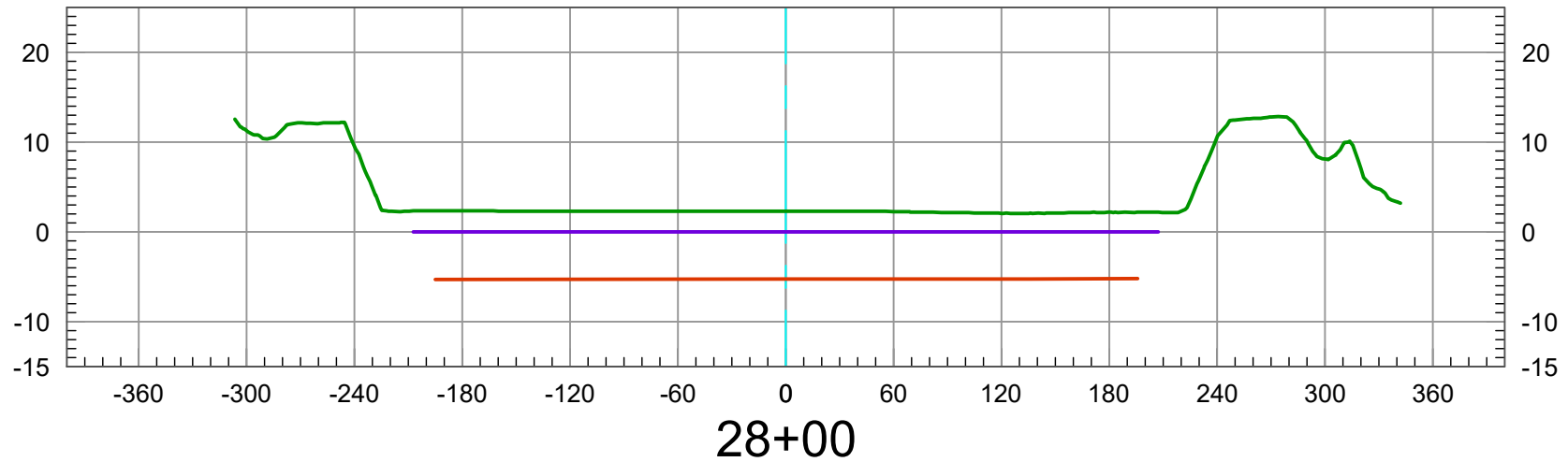
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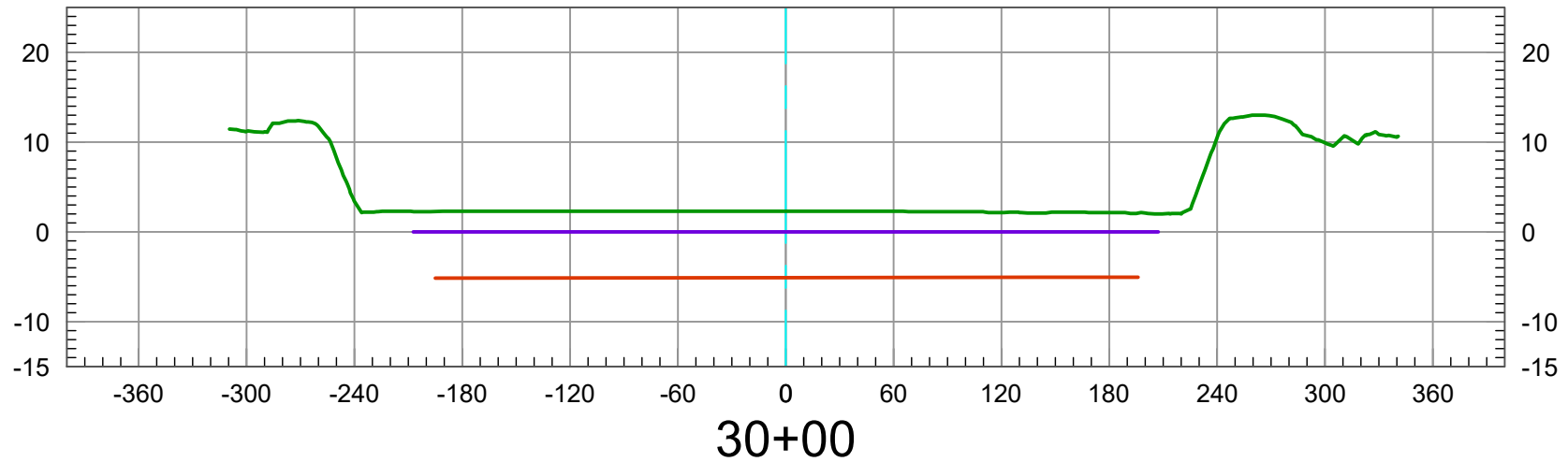
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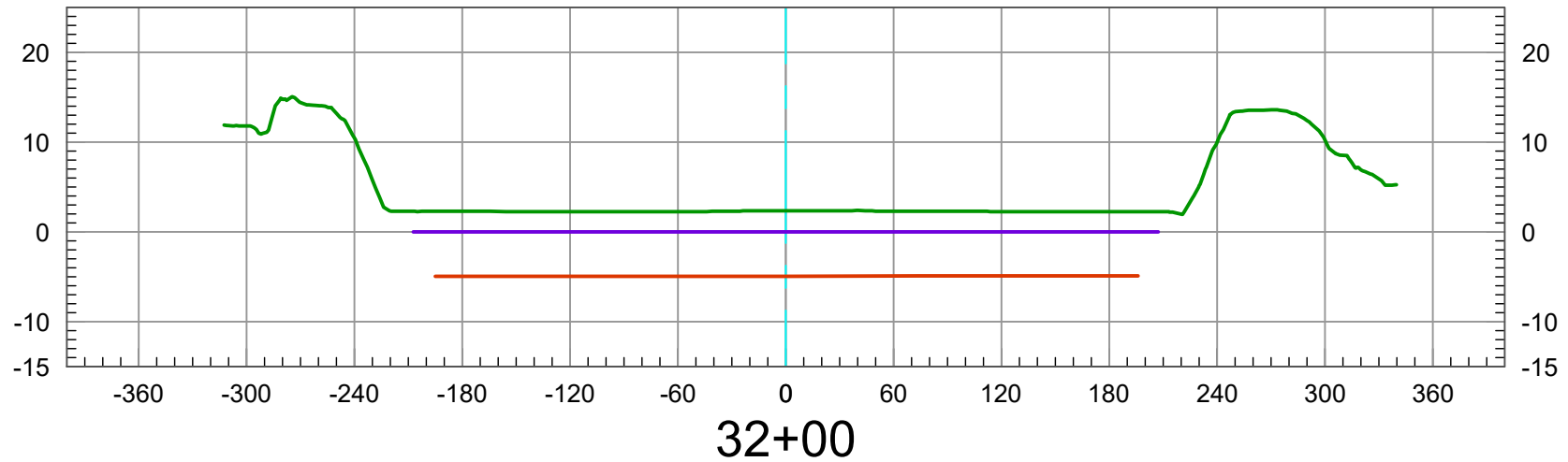
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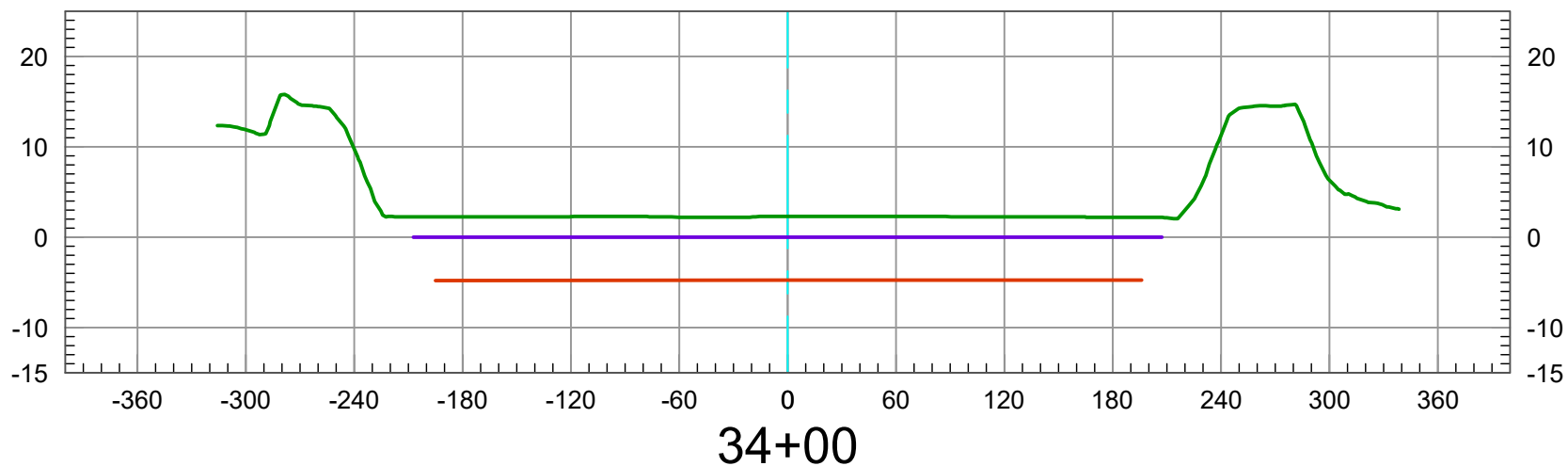
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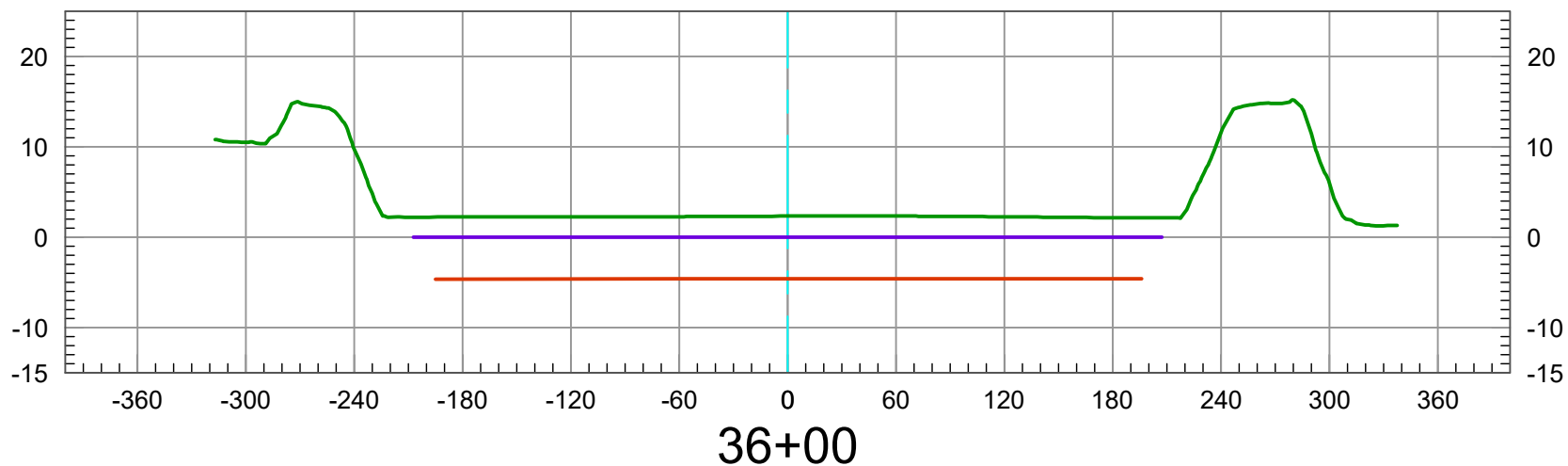
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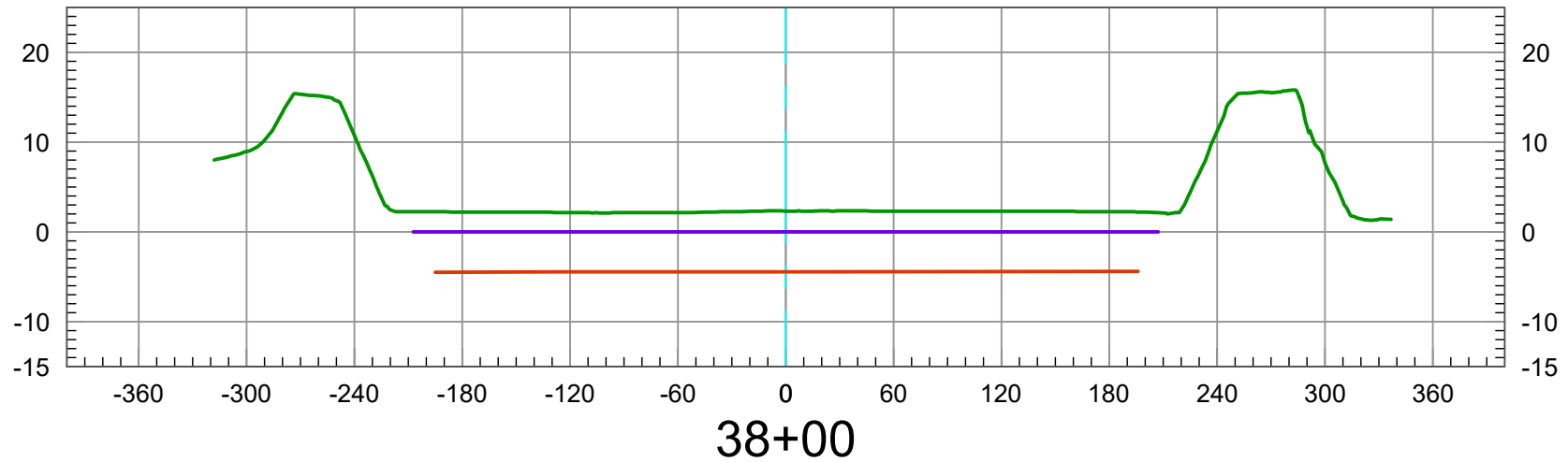
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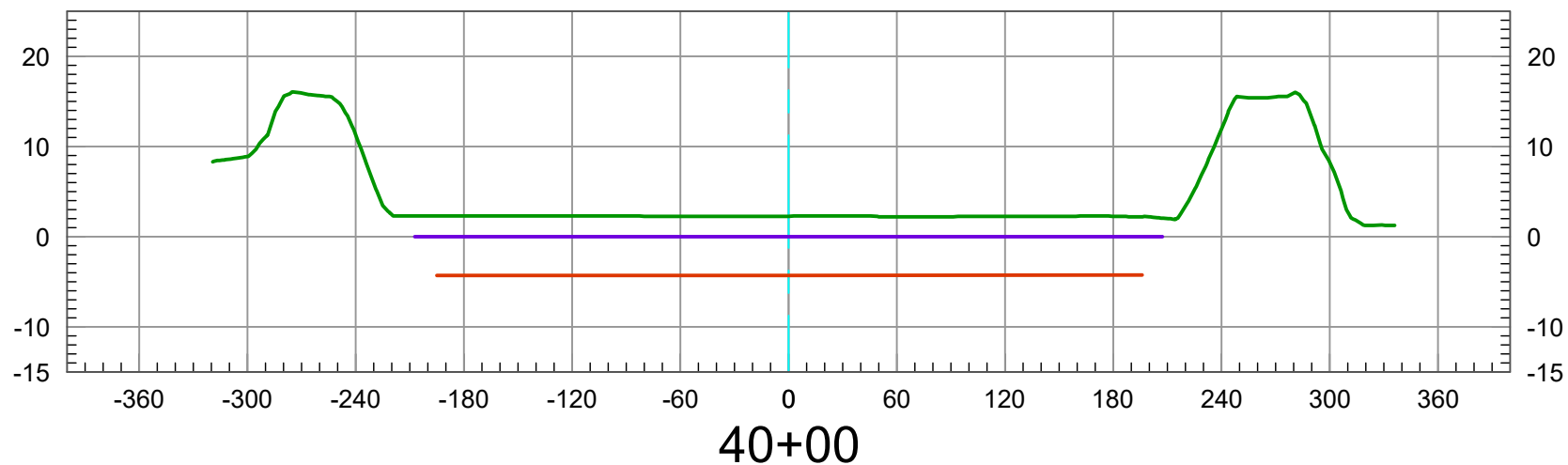
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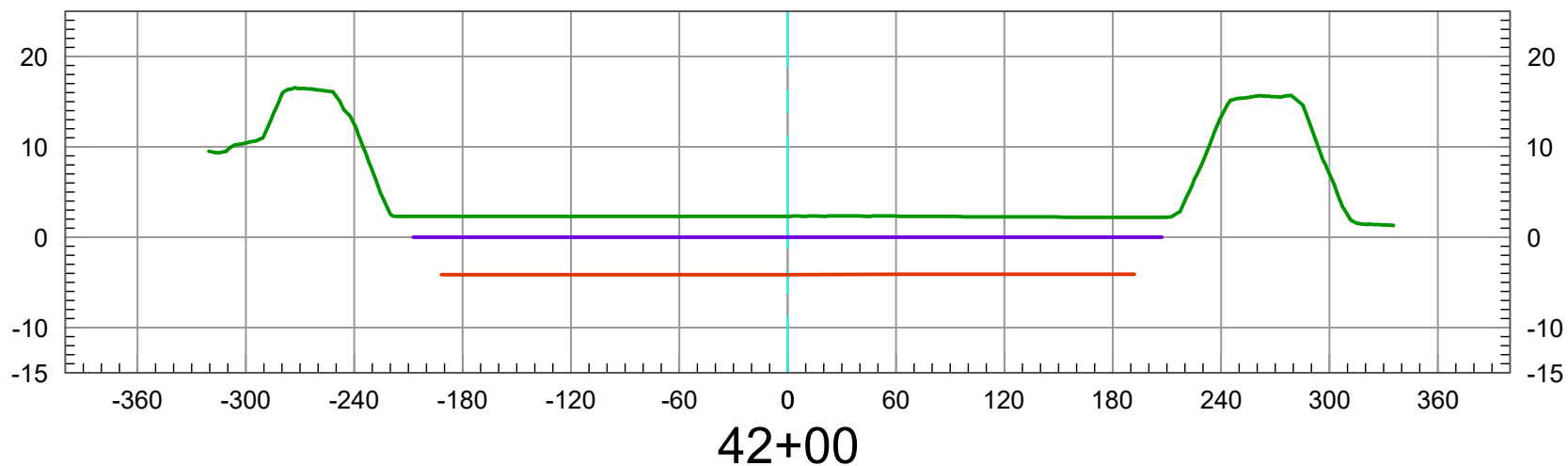
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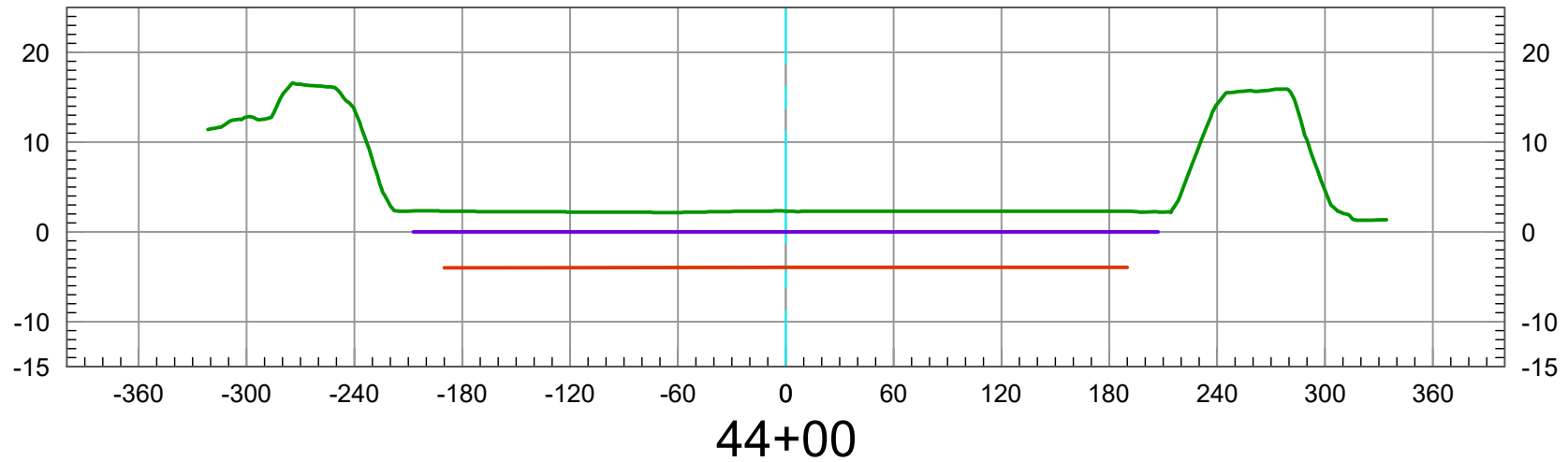
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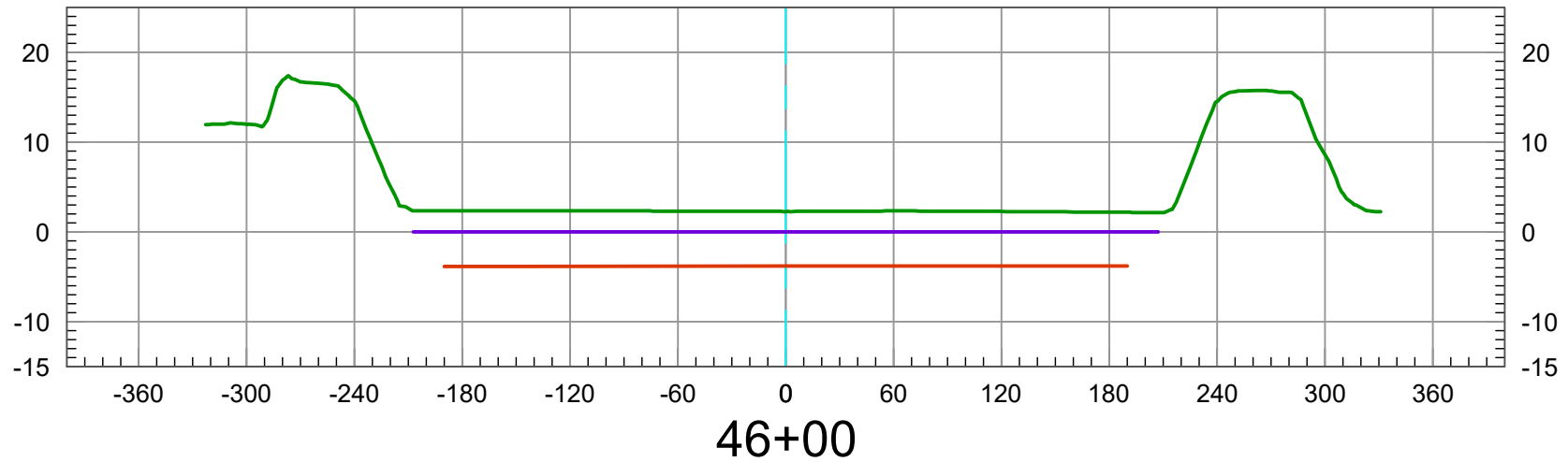
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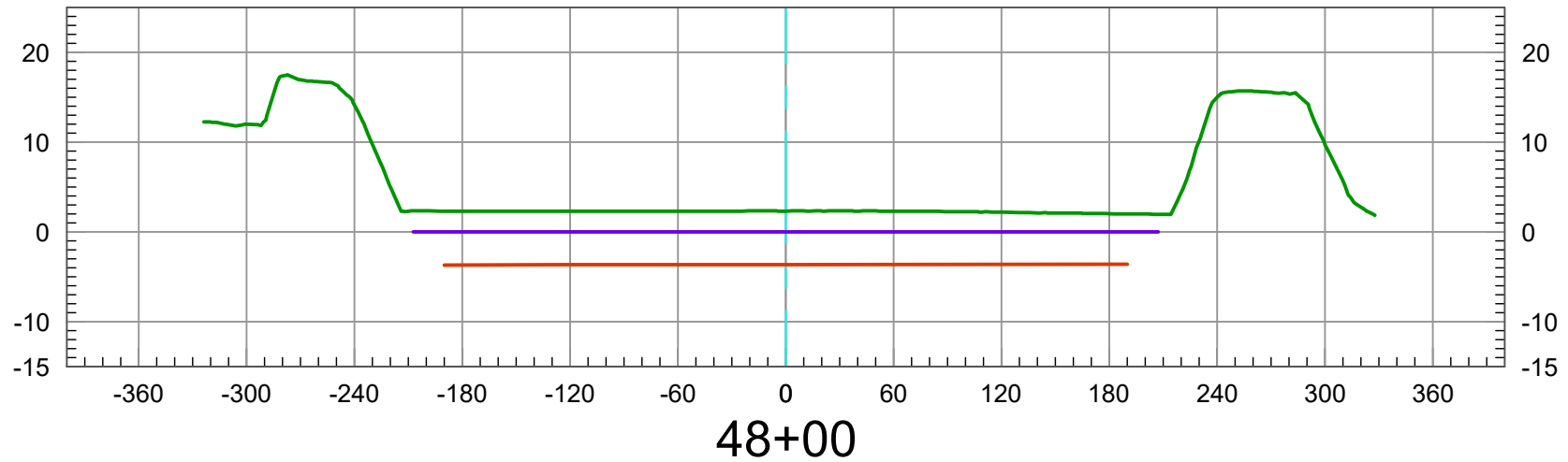
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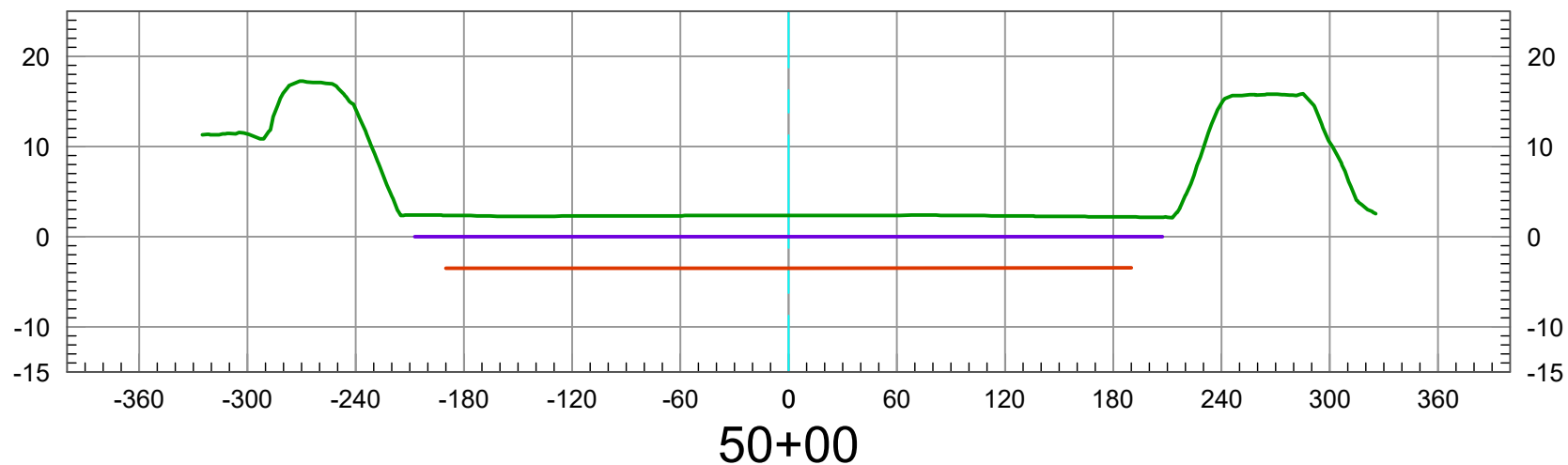
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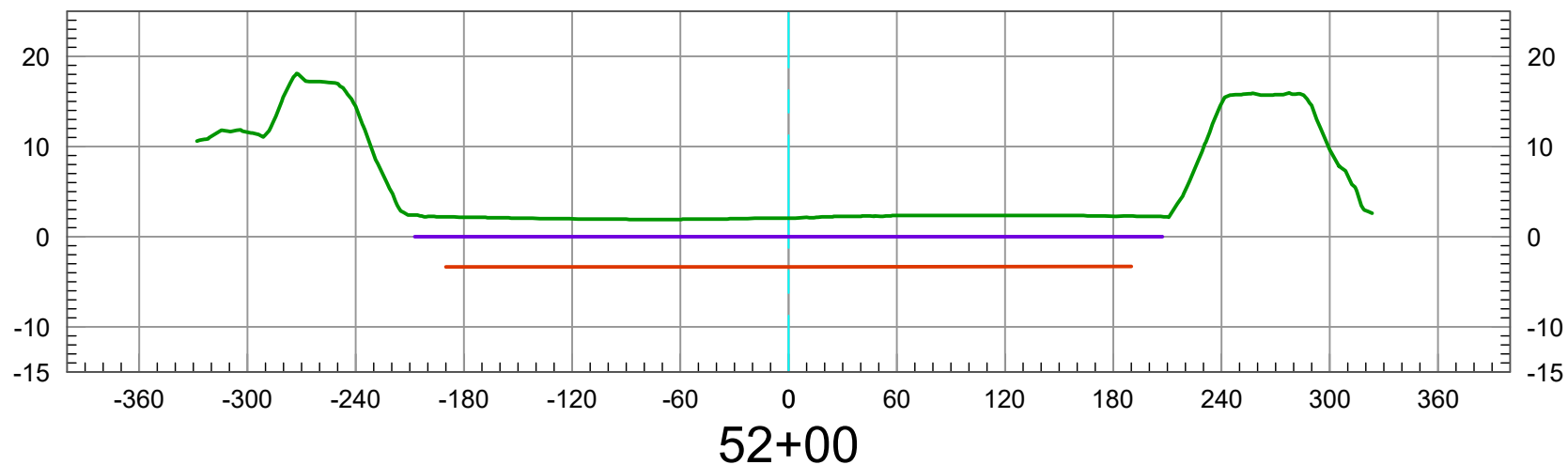
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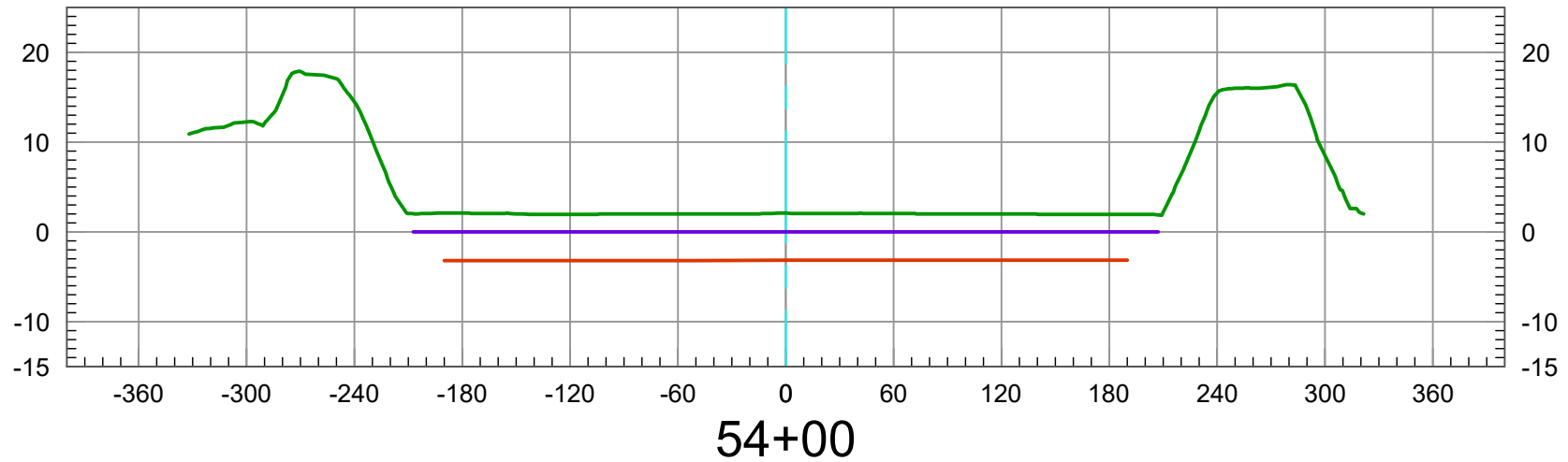
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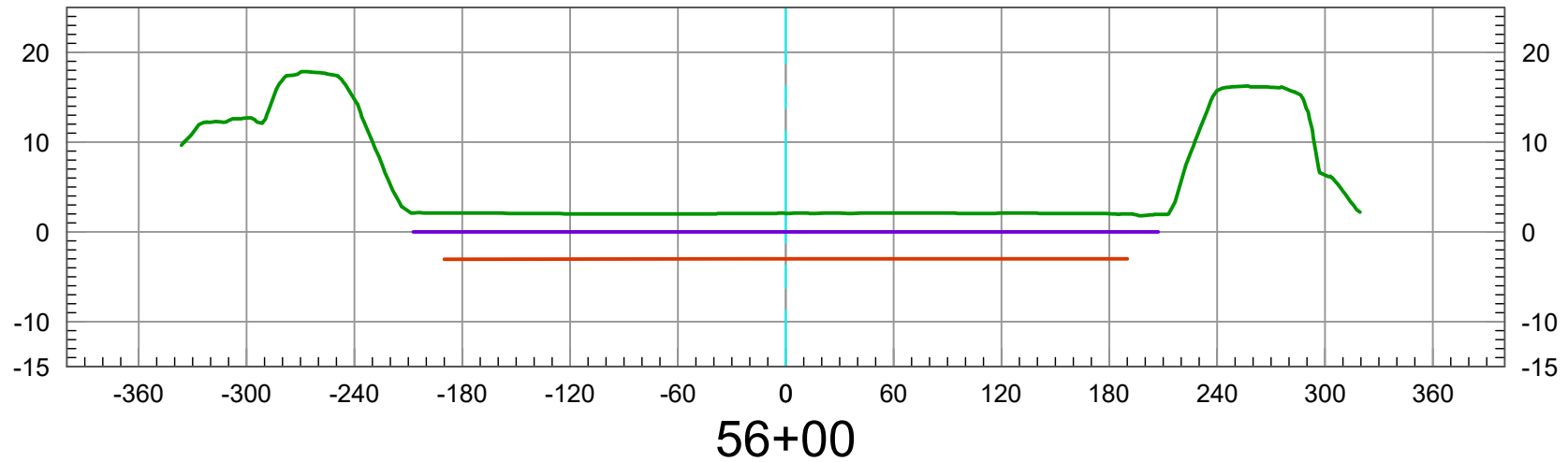
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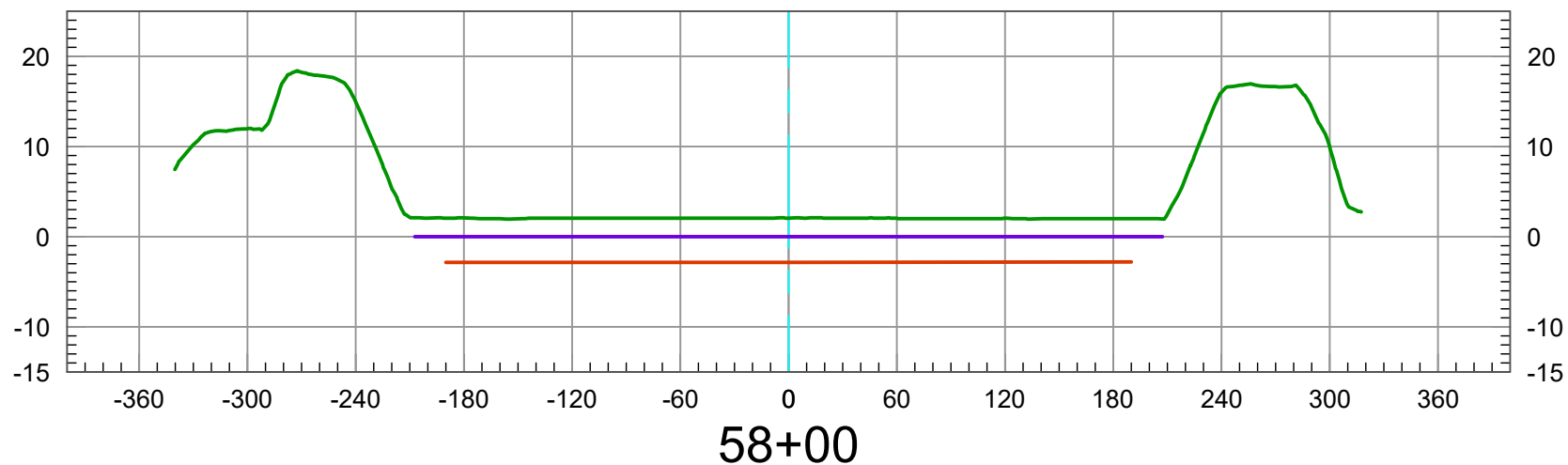
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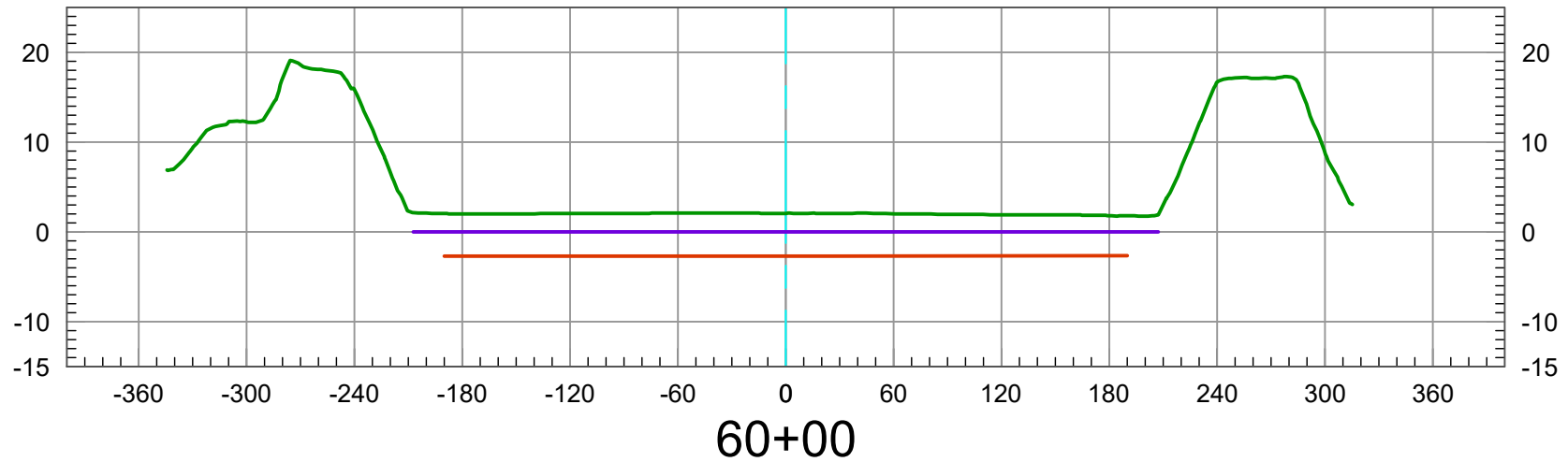
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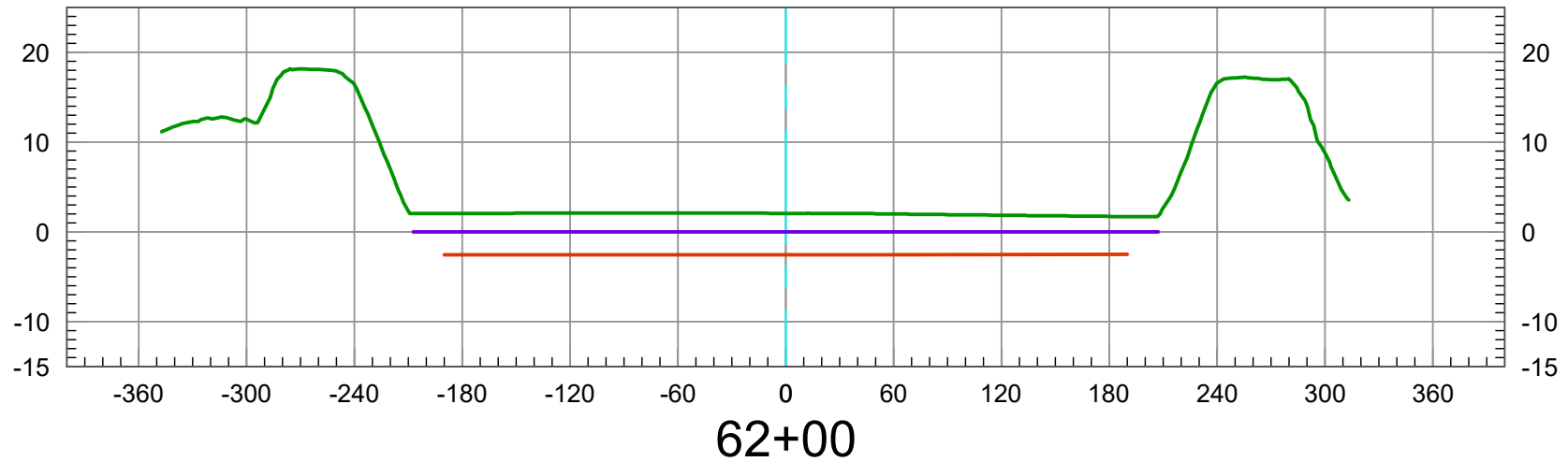
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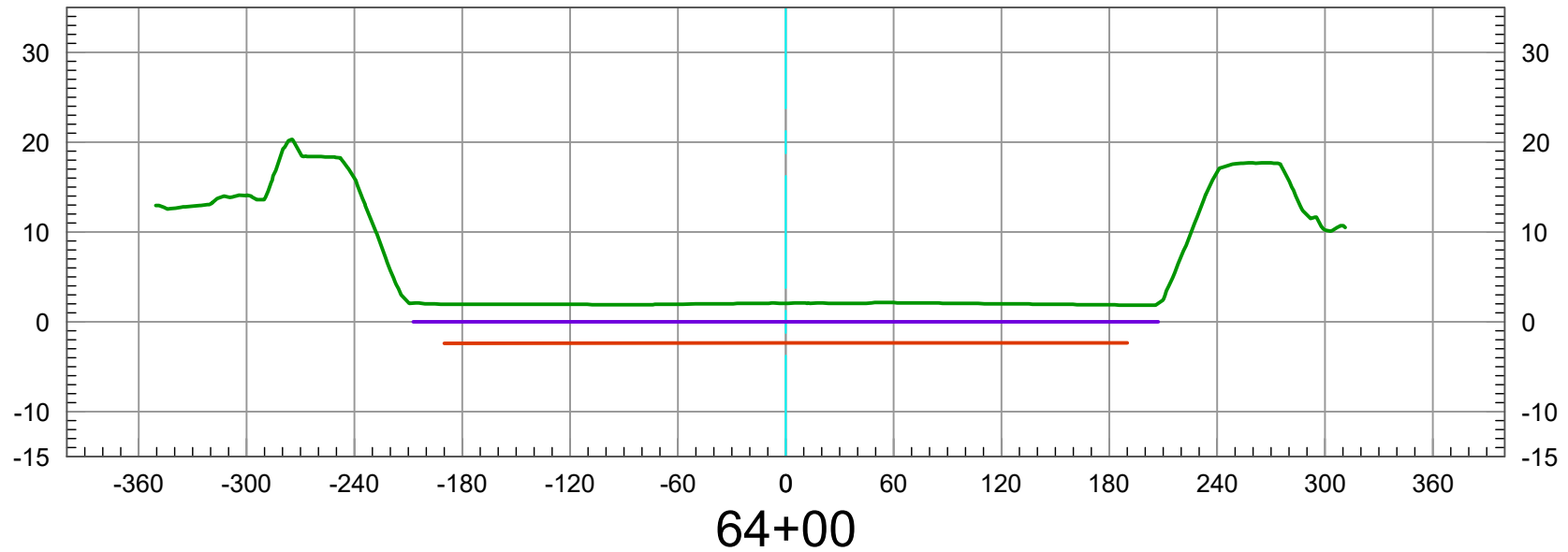
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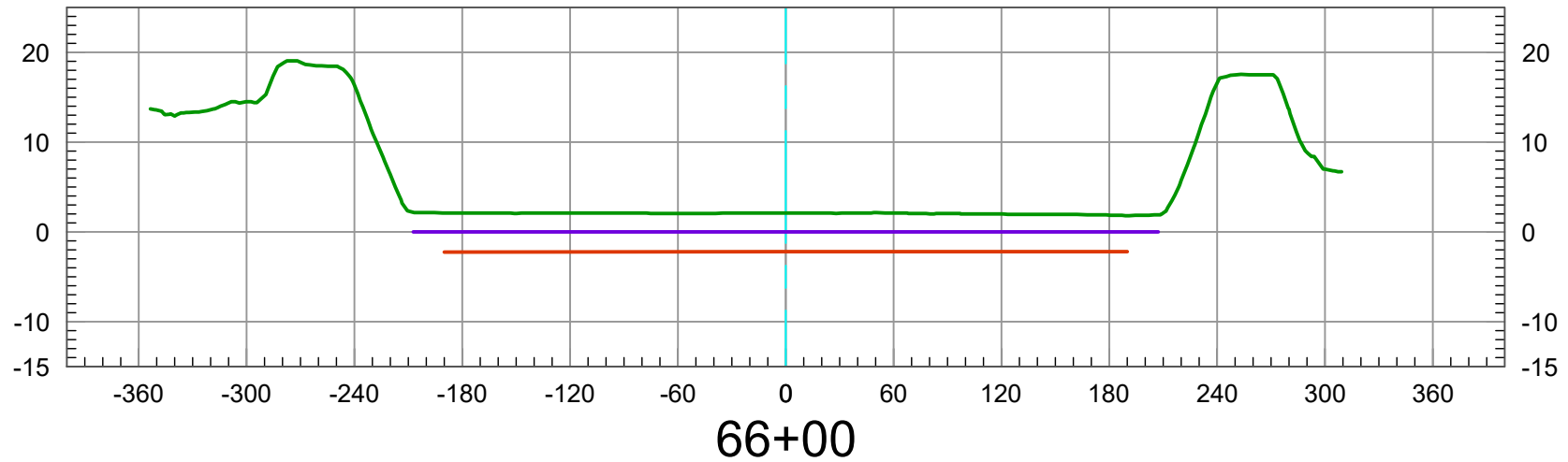
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



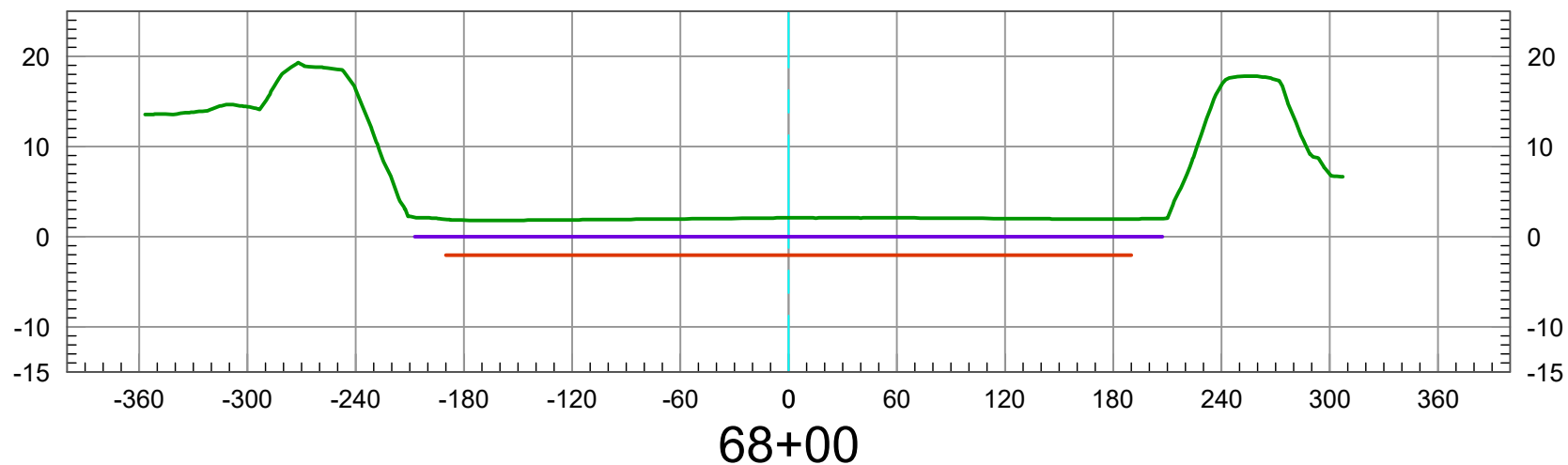
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



68+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



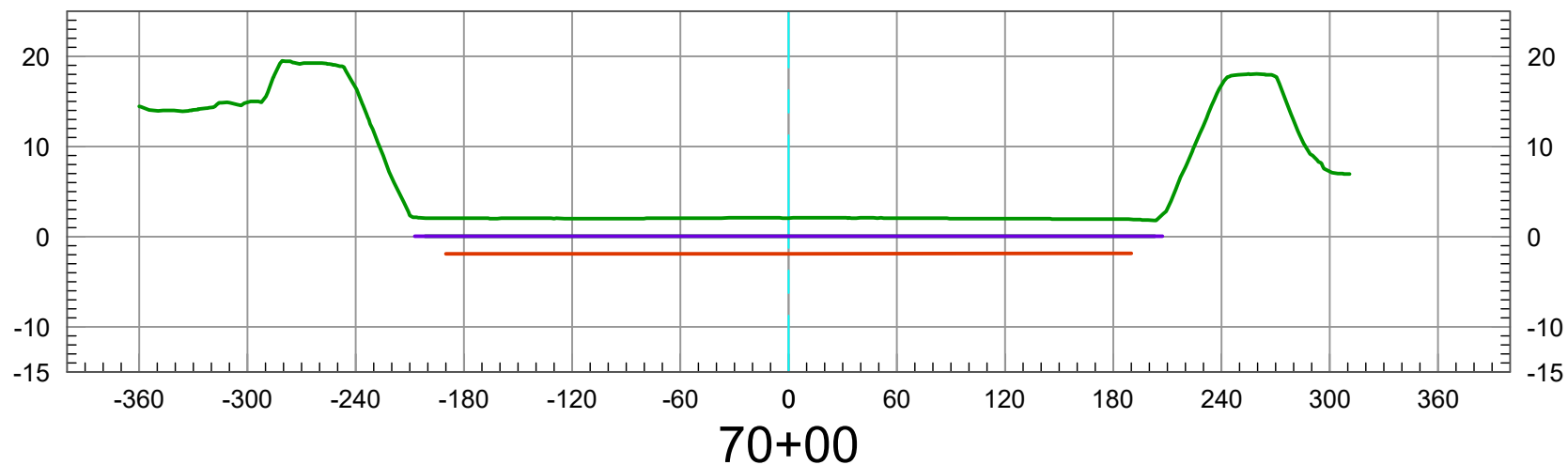
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



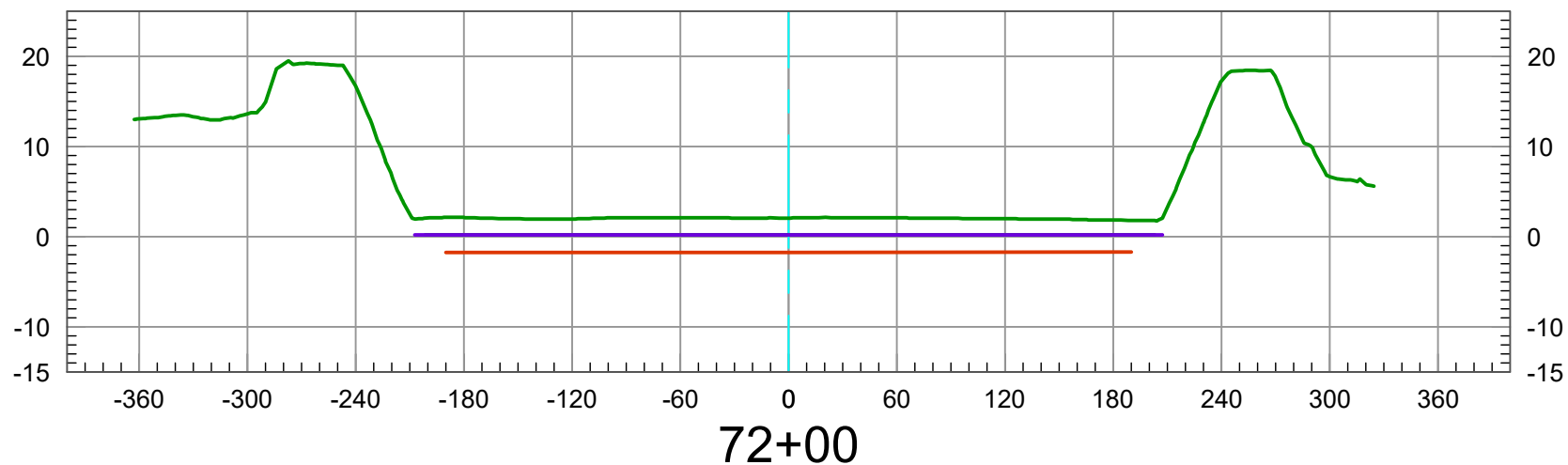
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



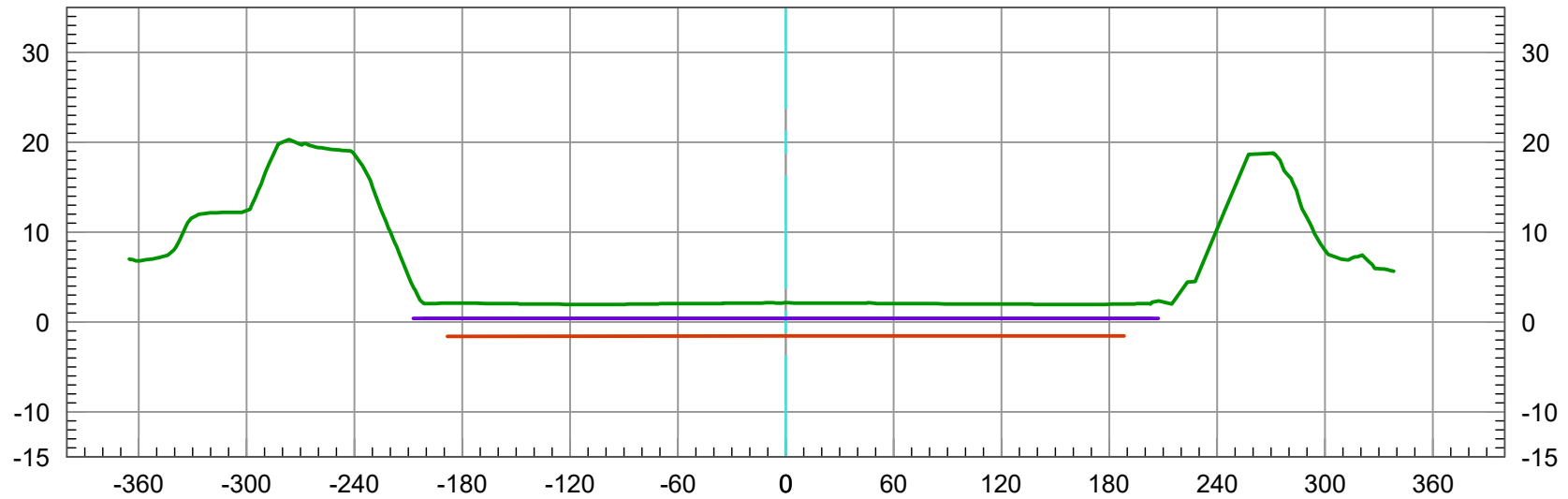
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



74+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



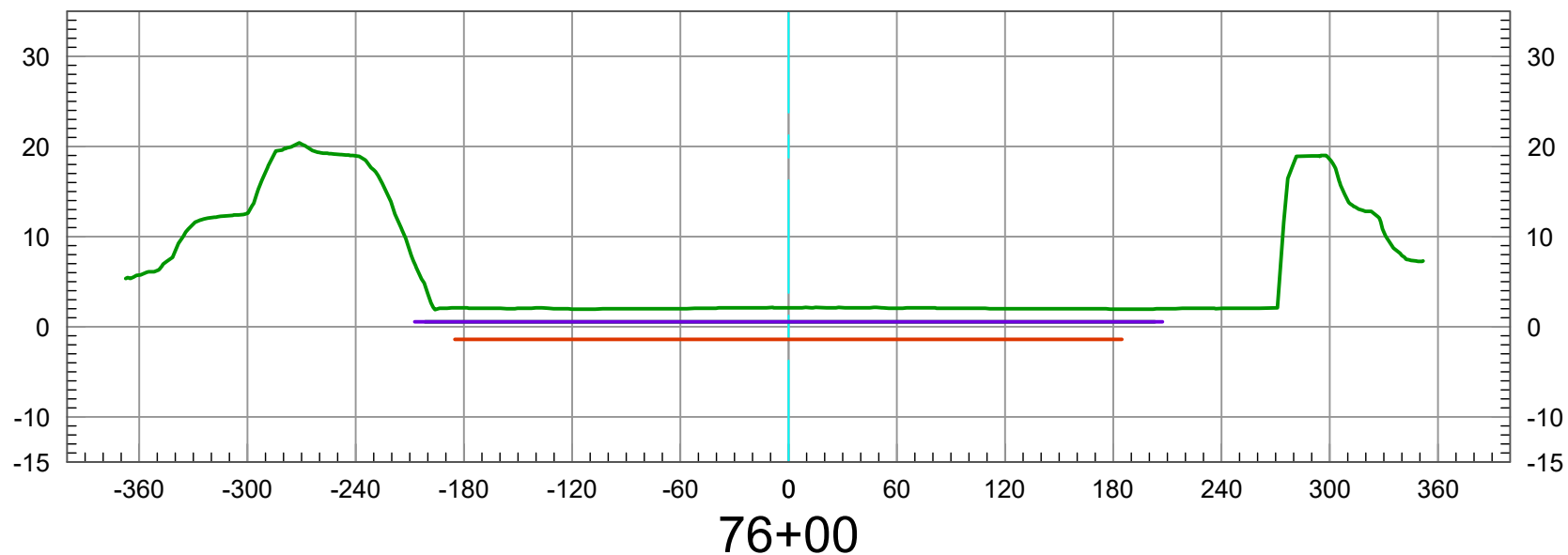
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



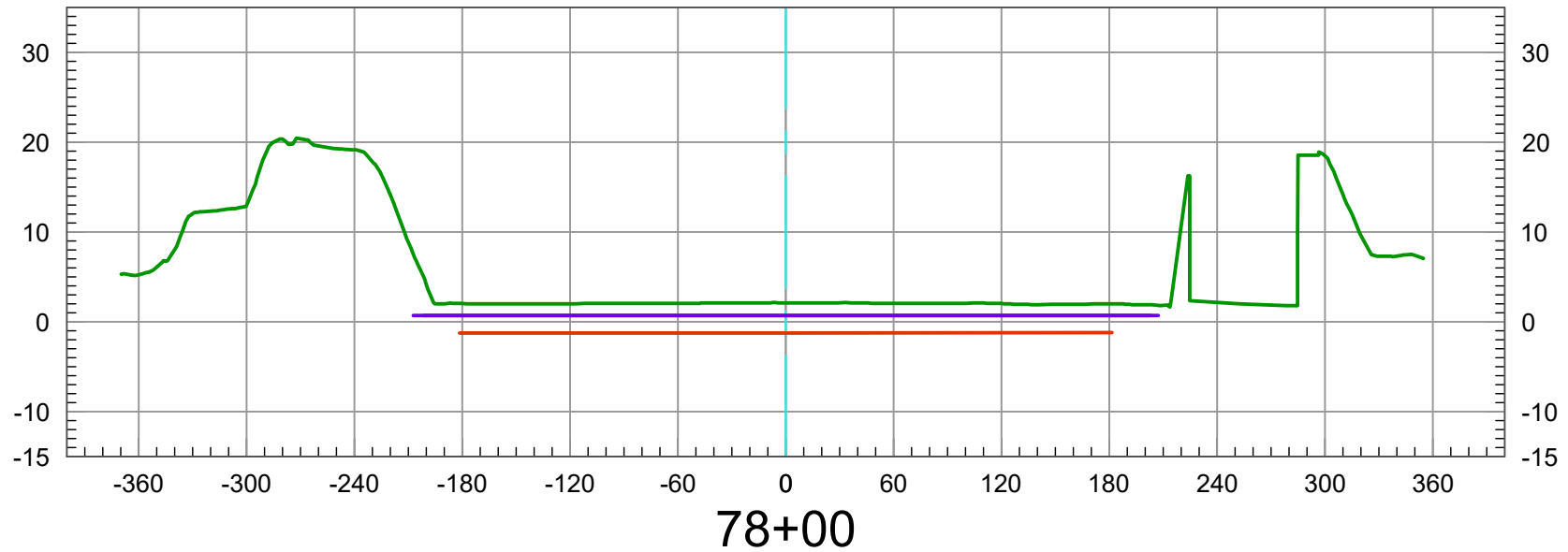
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



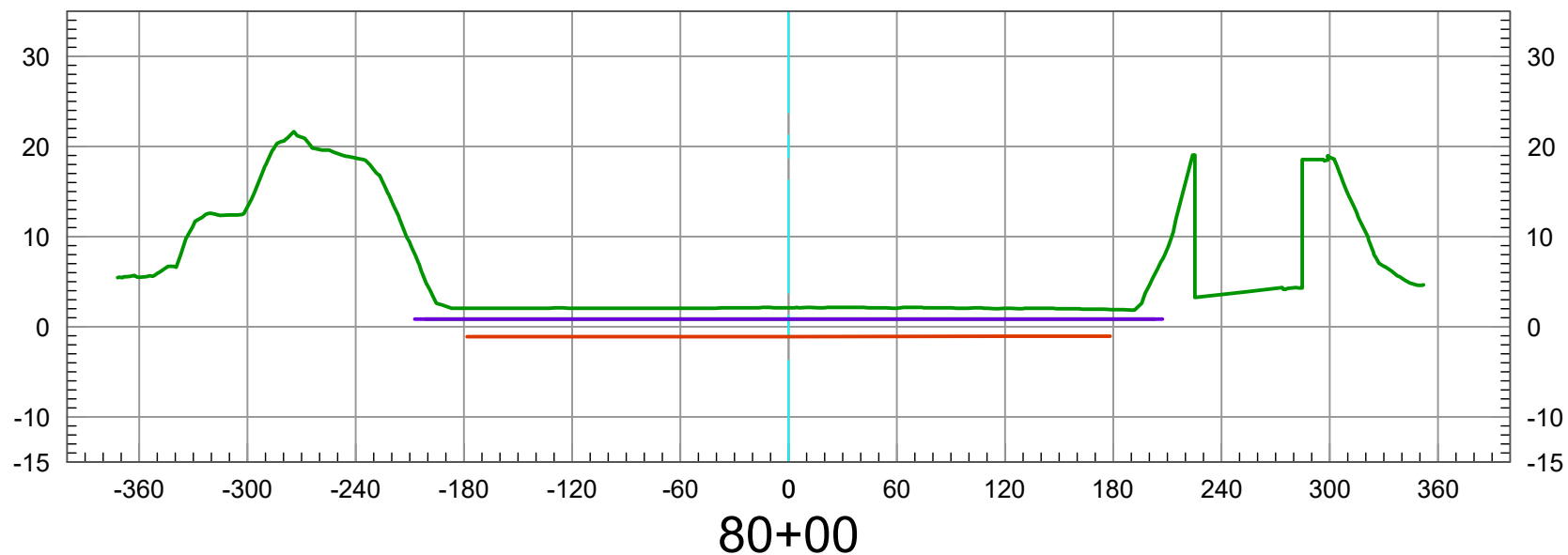
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



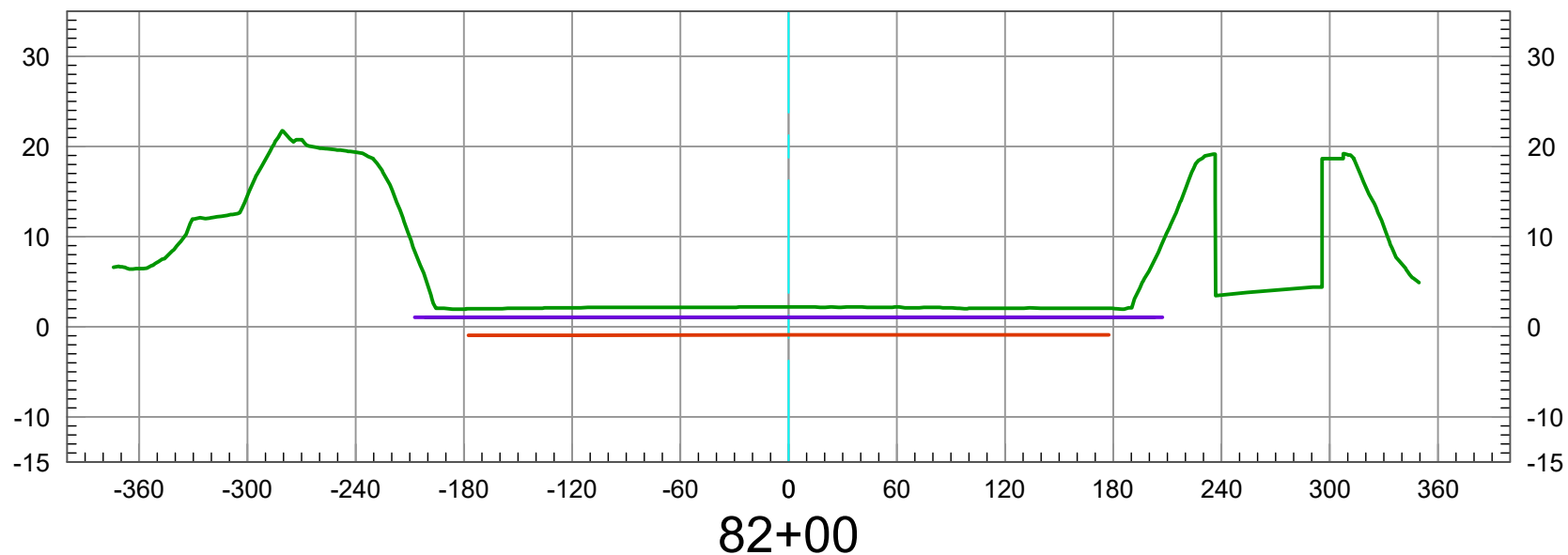
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



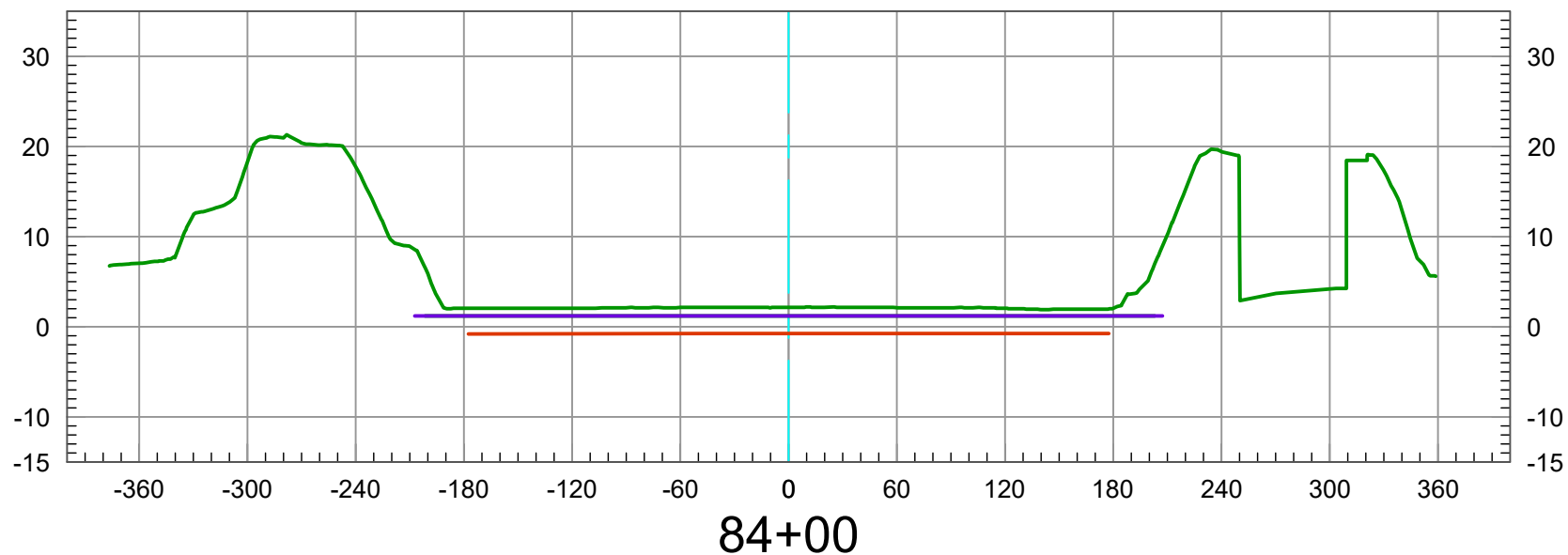
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



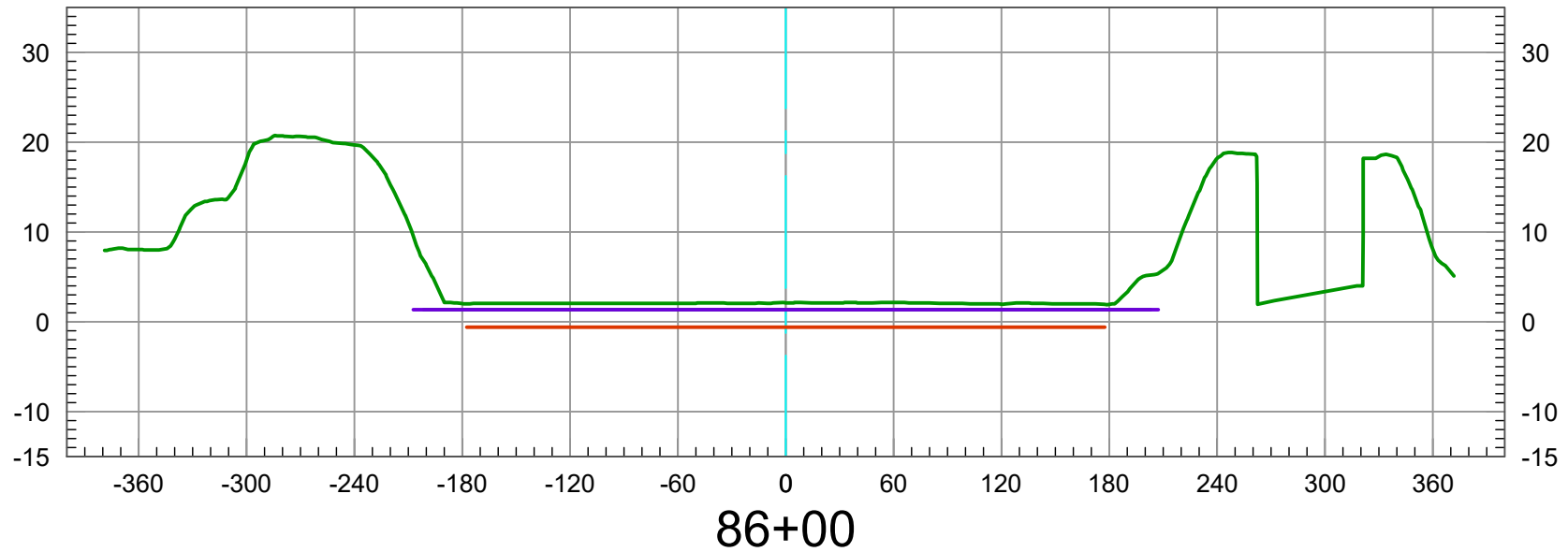
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



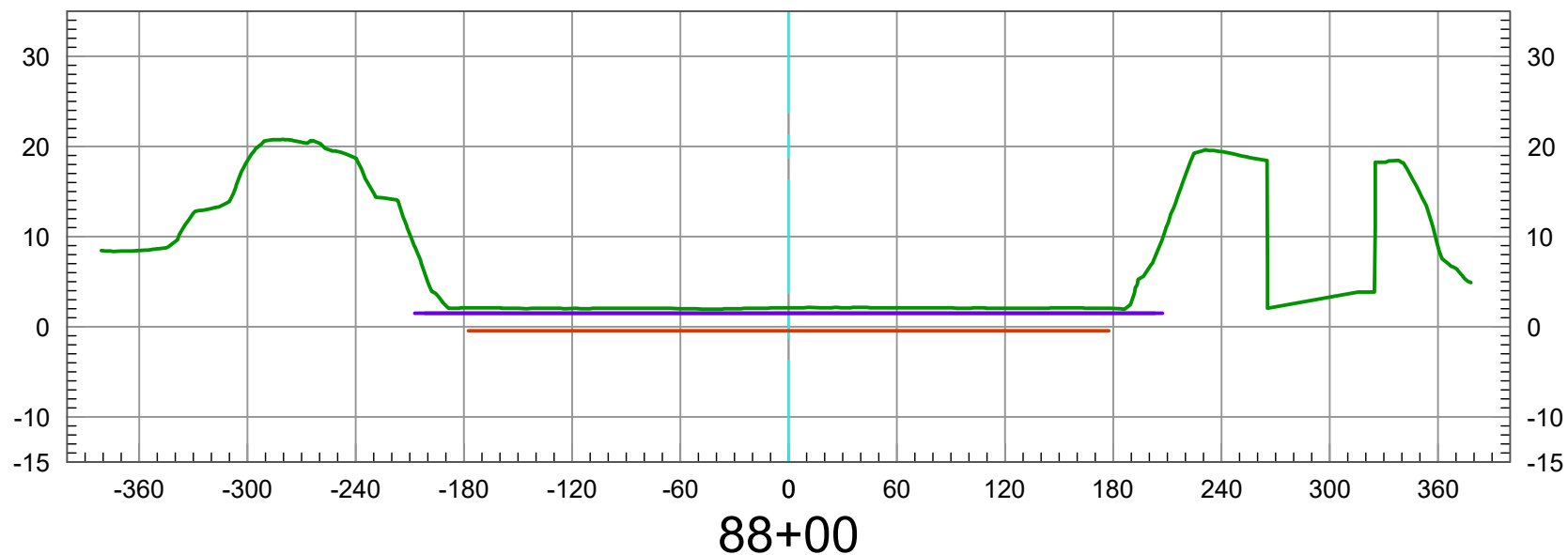
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



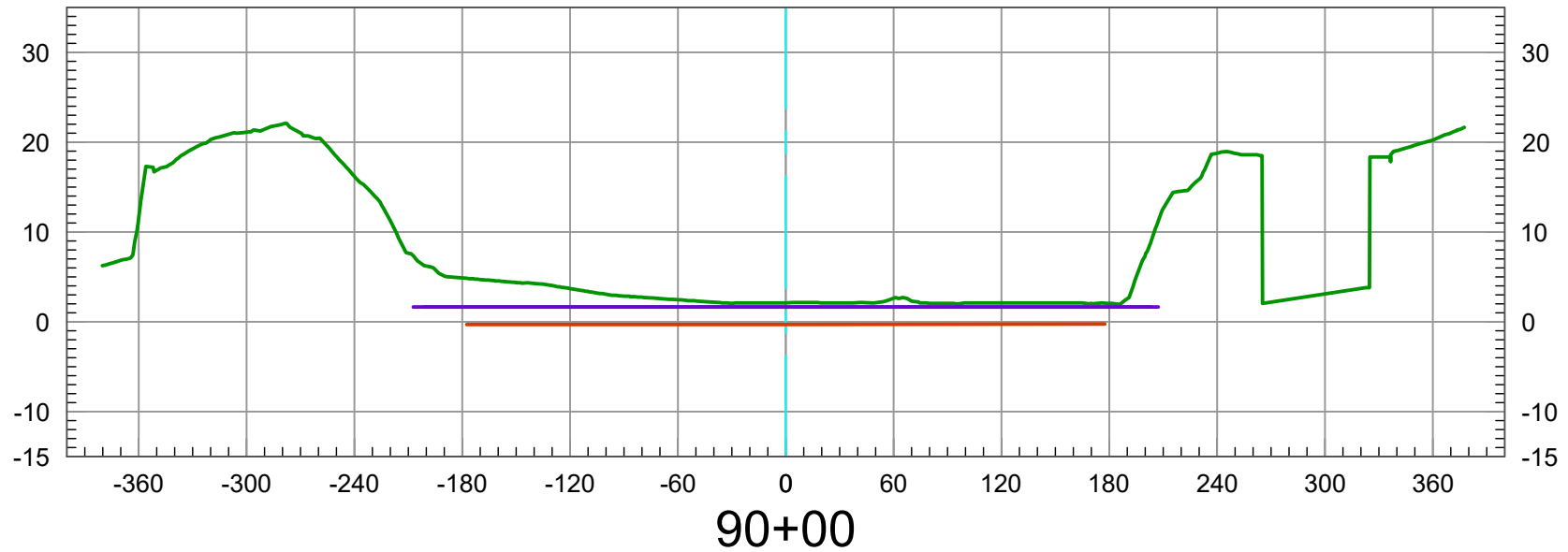
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



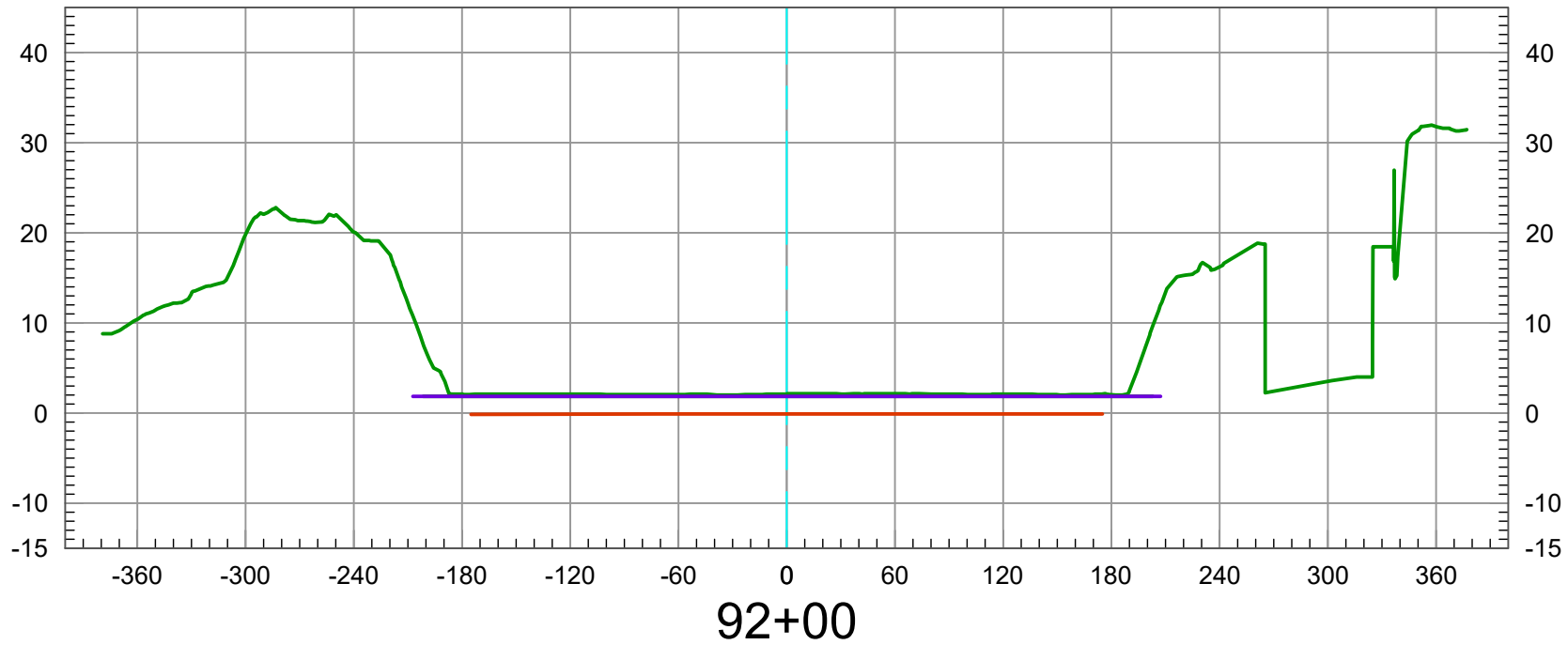
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



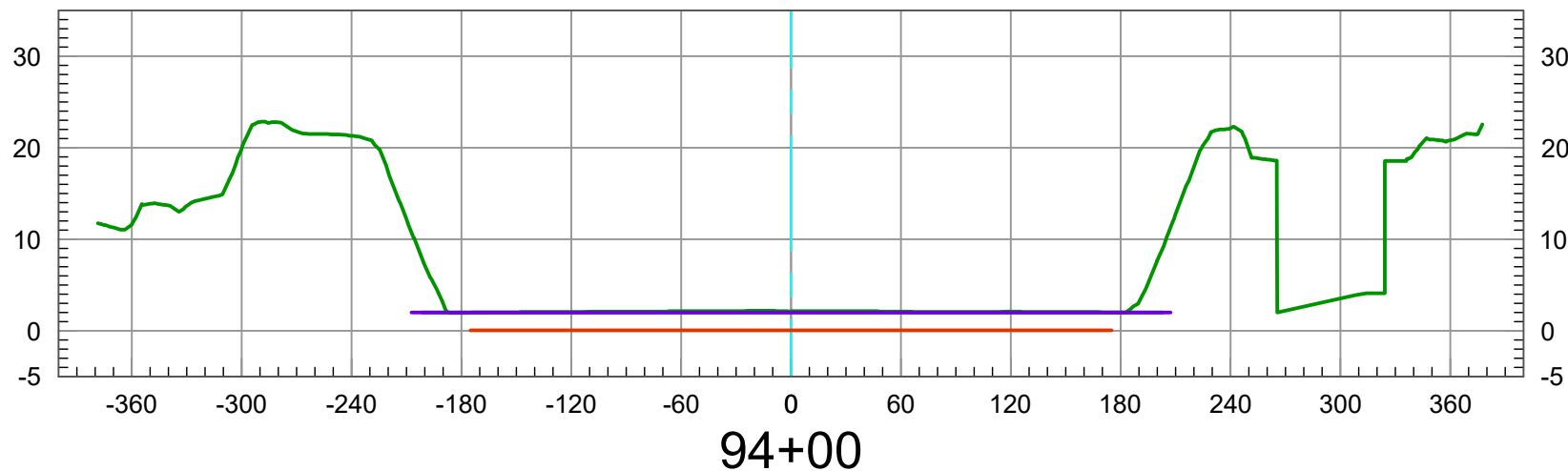
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



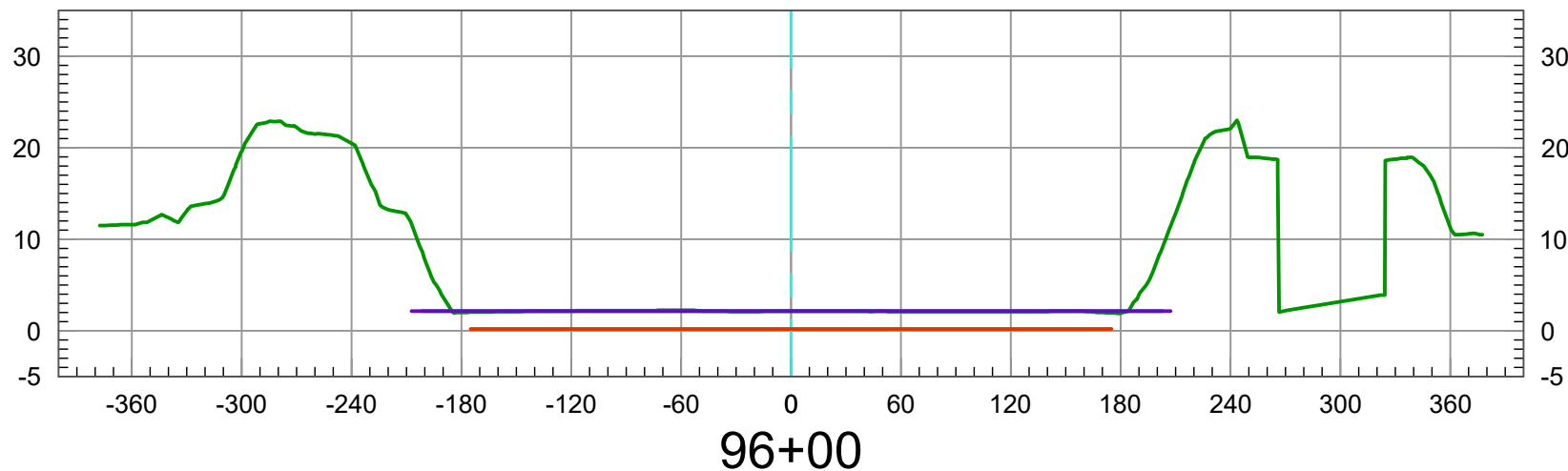
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



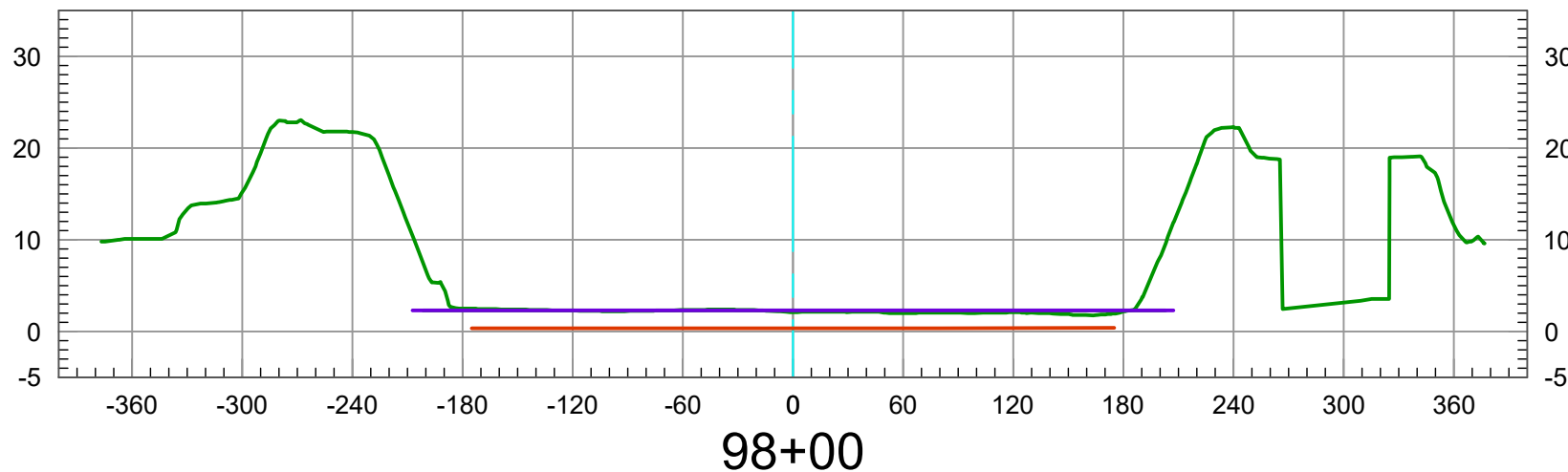
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



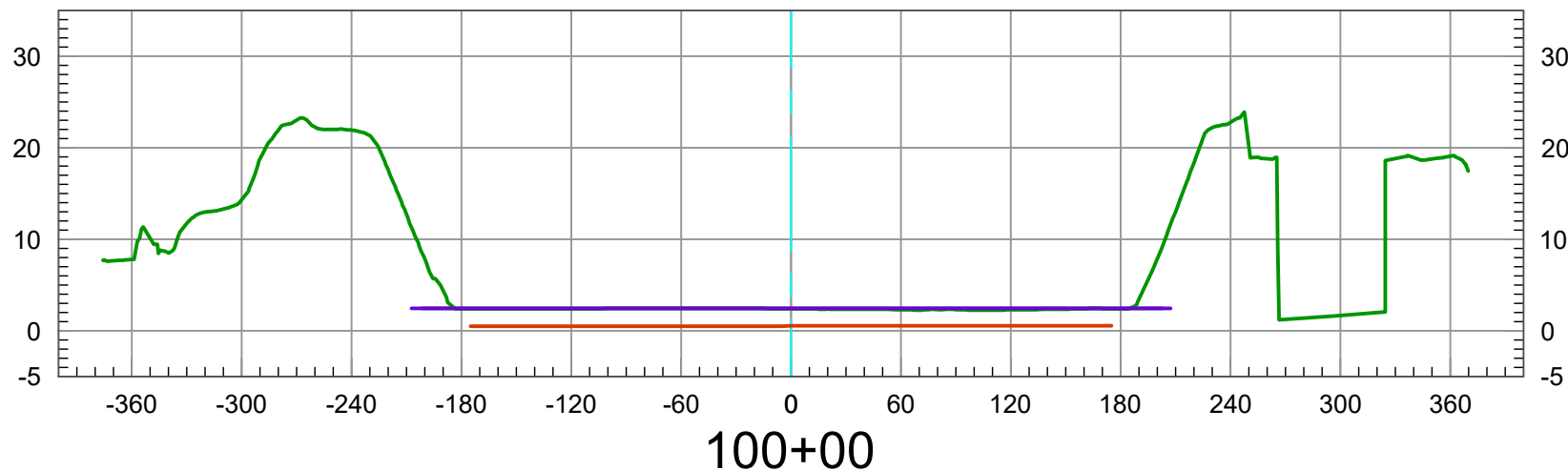
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



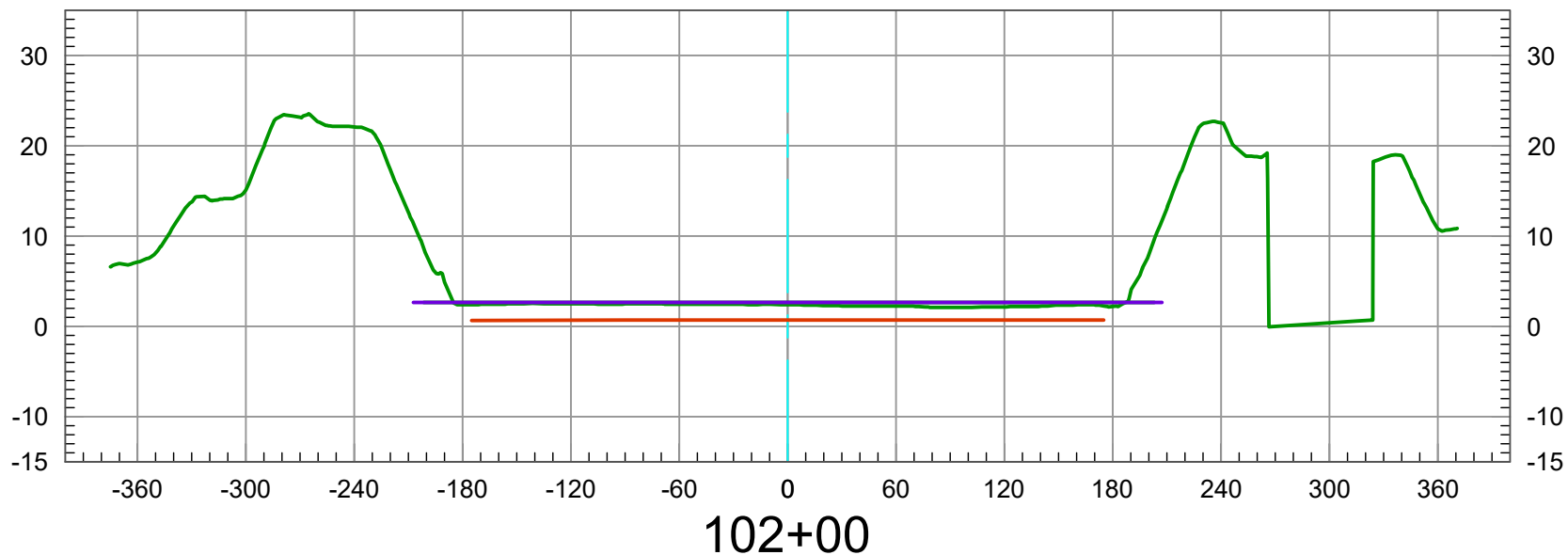
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



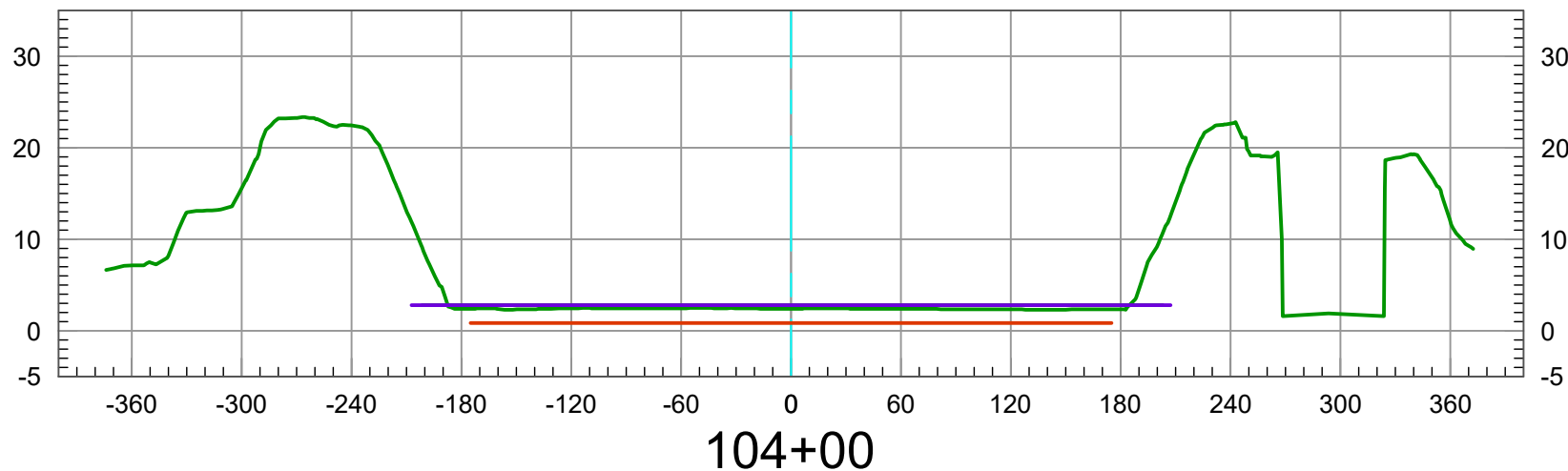
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



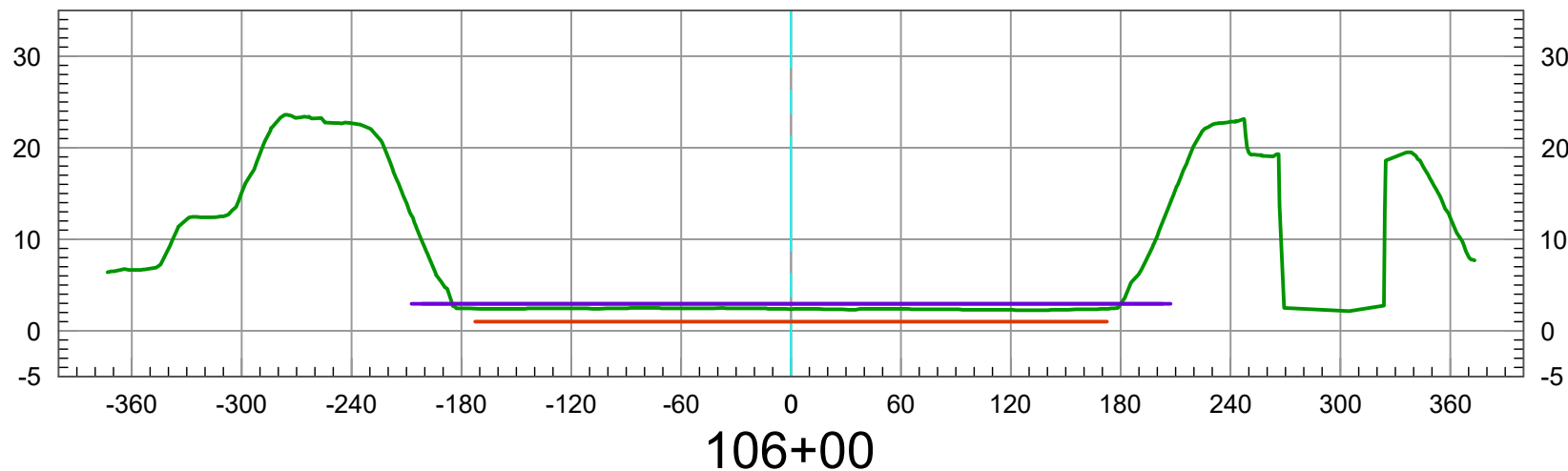
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



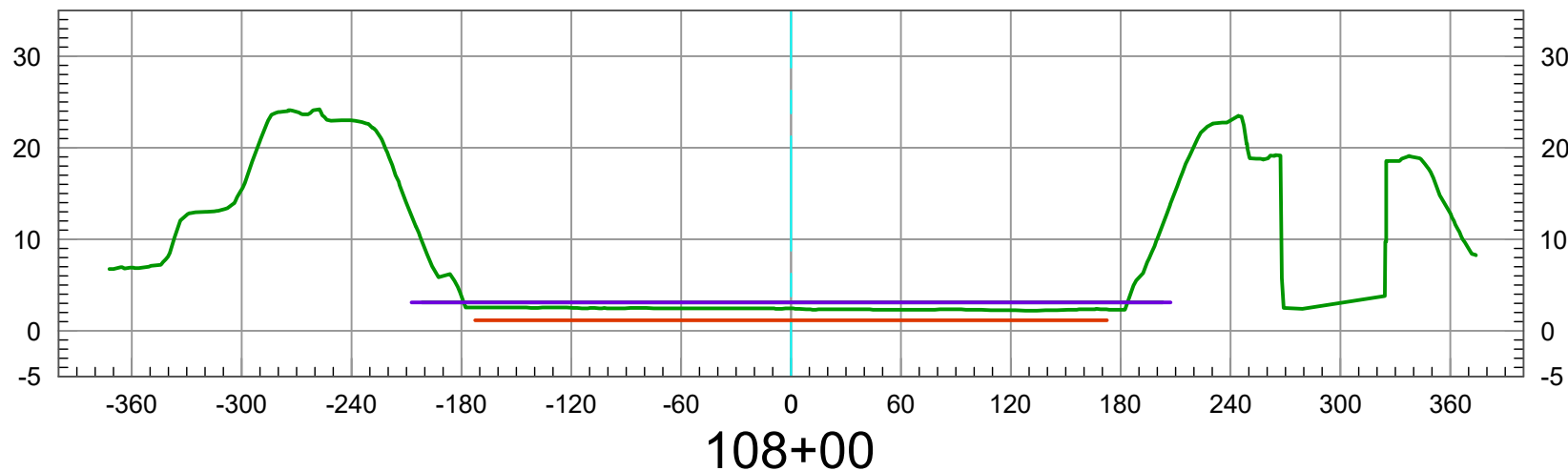
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



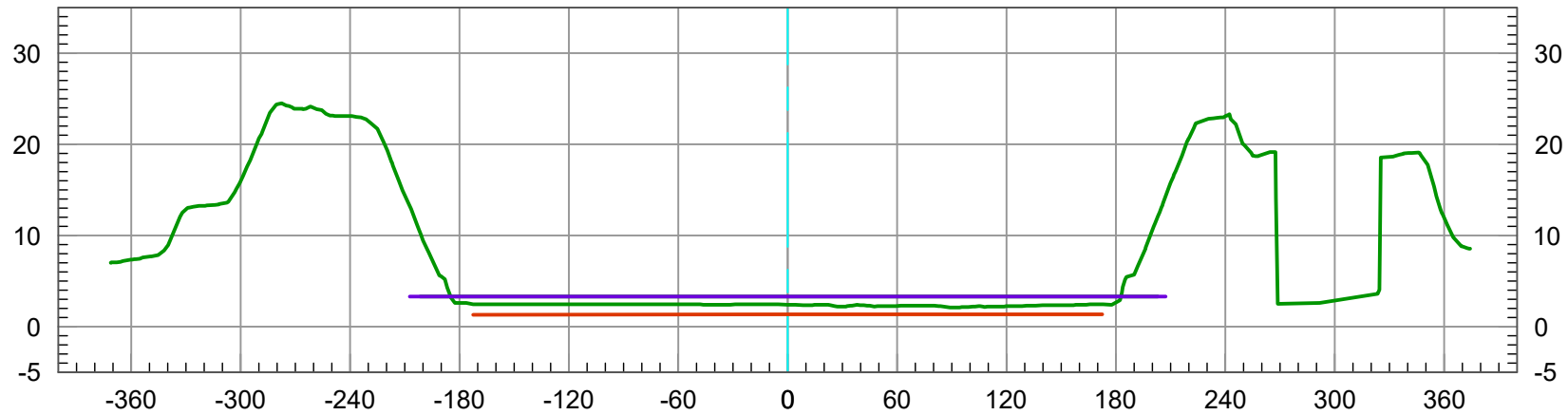
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



110+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



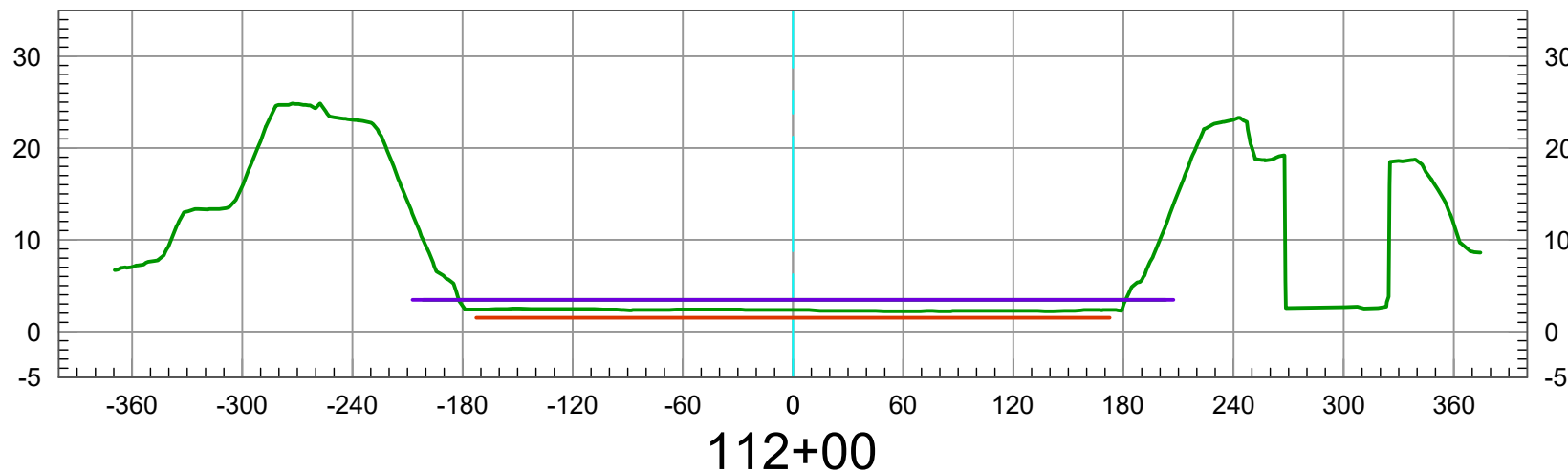
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



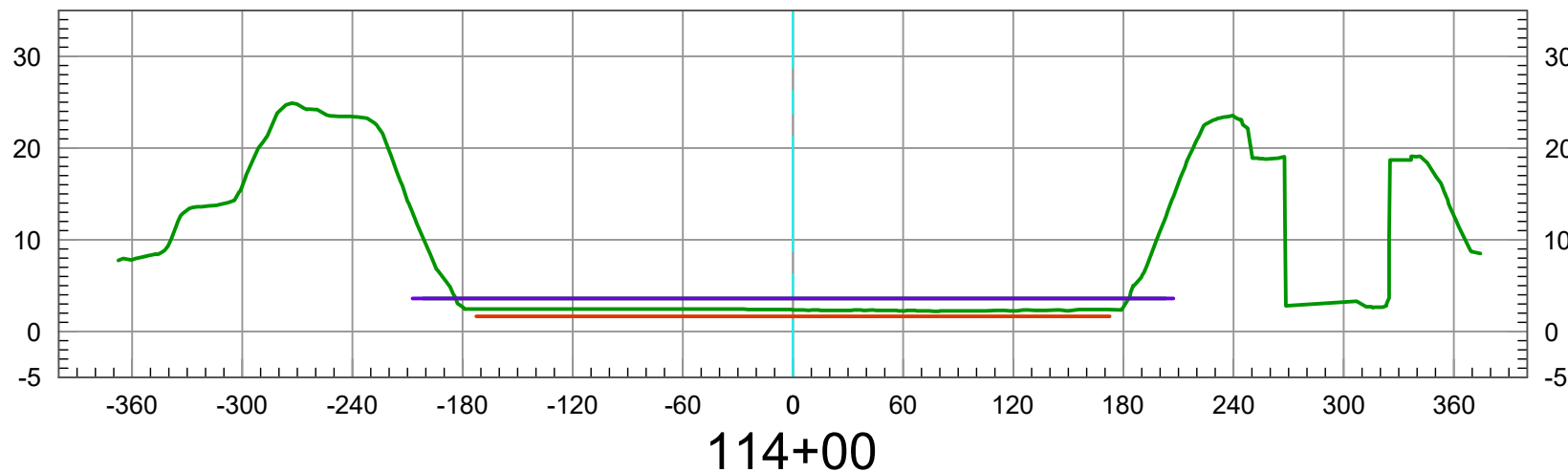
Vert. Scale: 1"=5'  
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**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



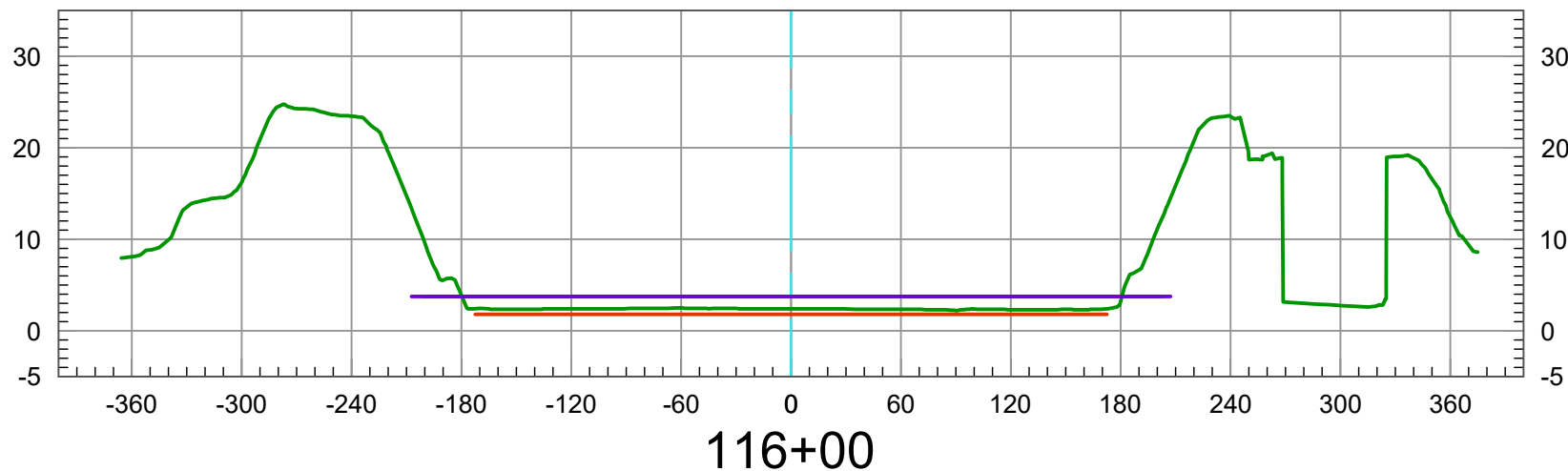
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



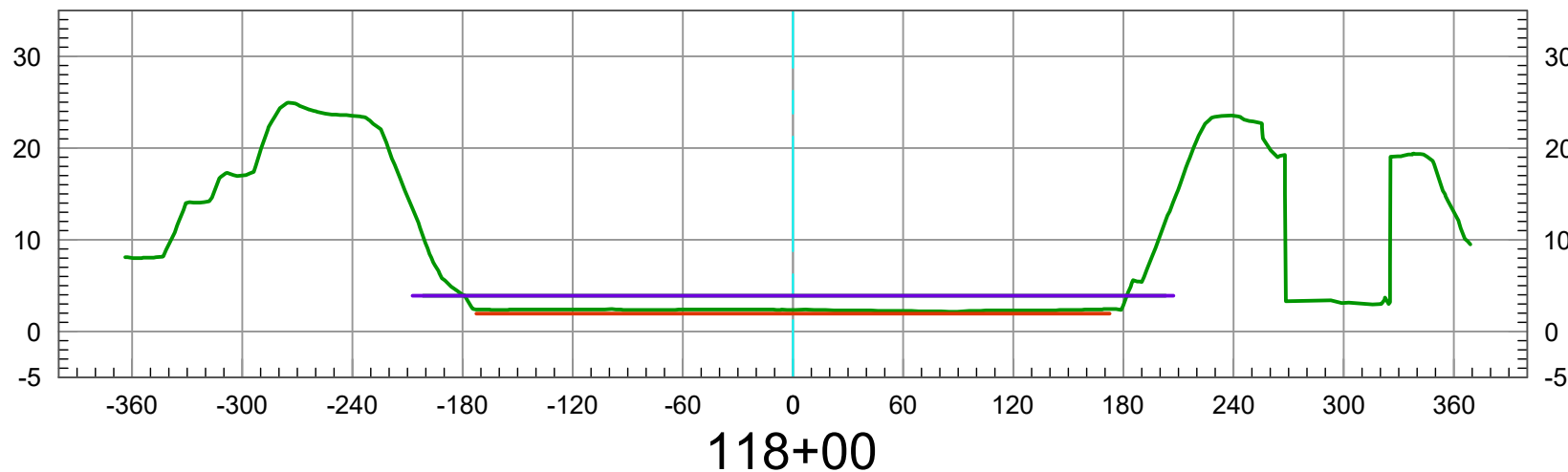
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



118+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



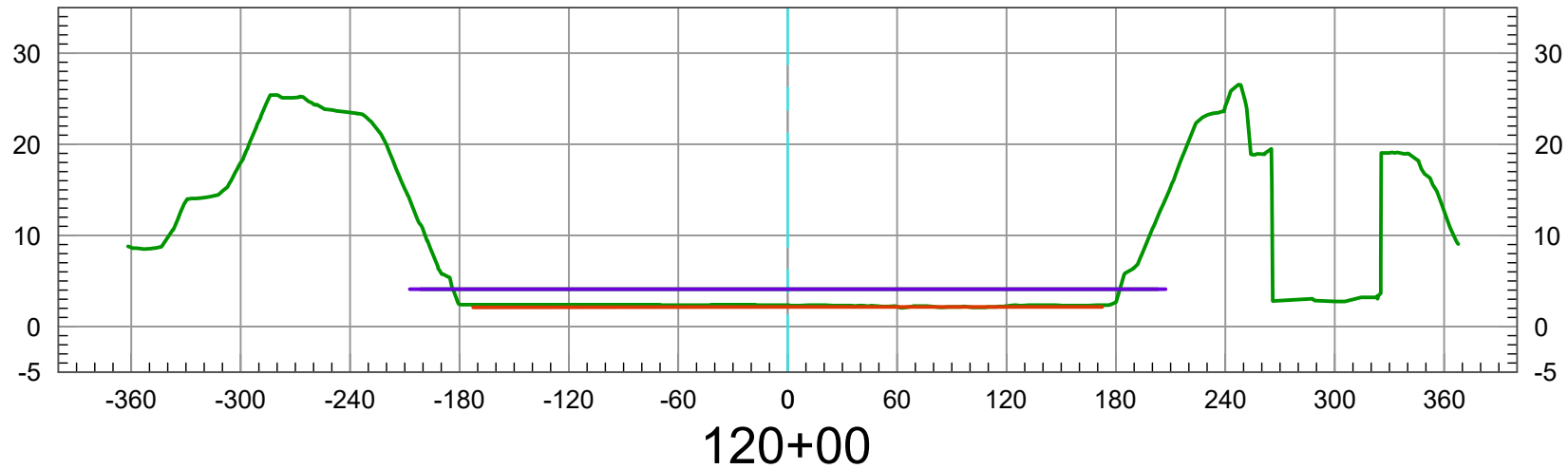
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



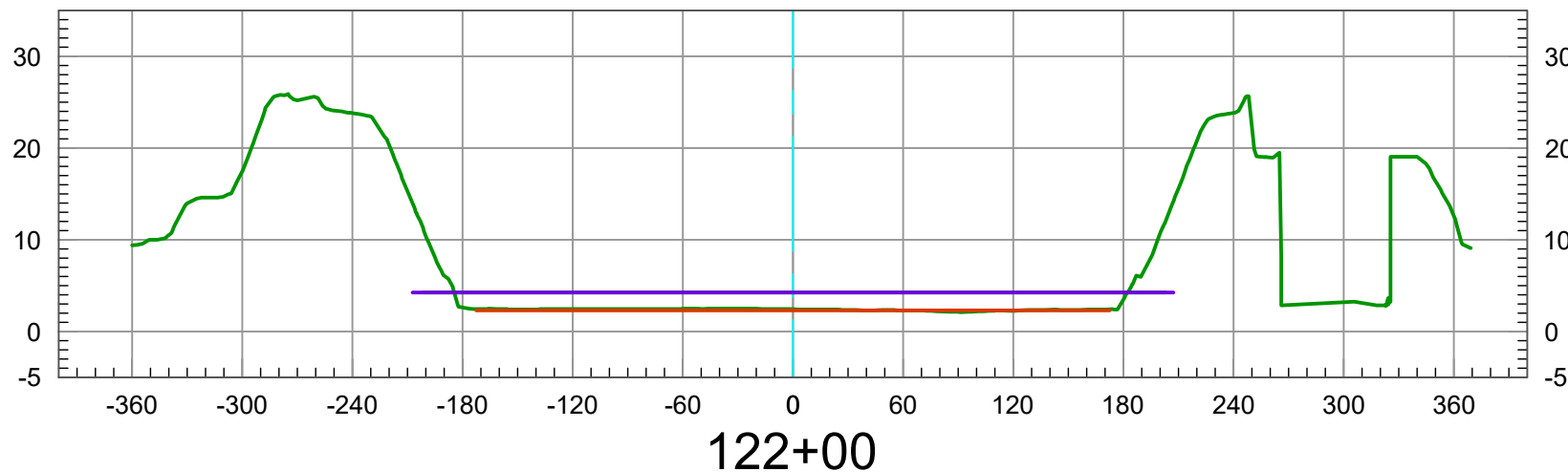
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



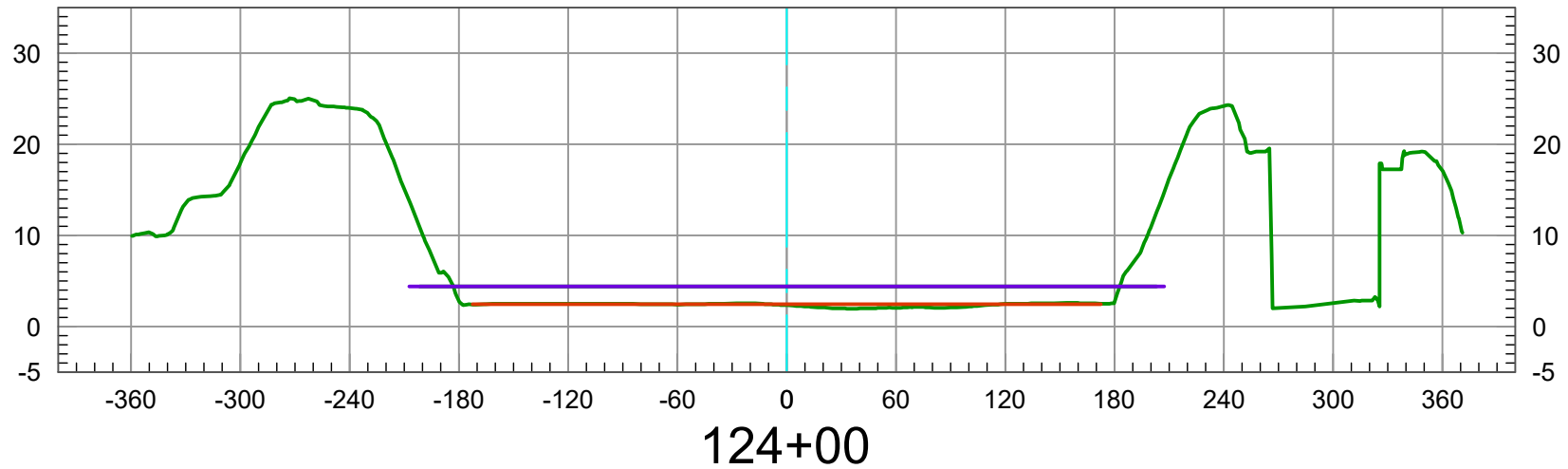
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



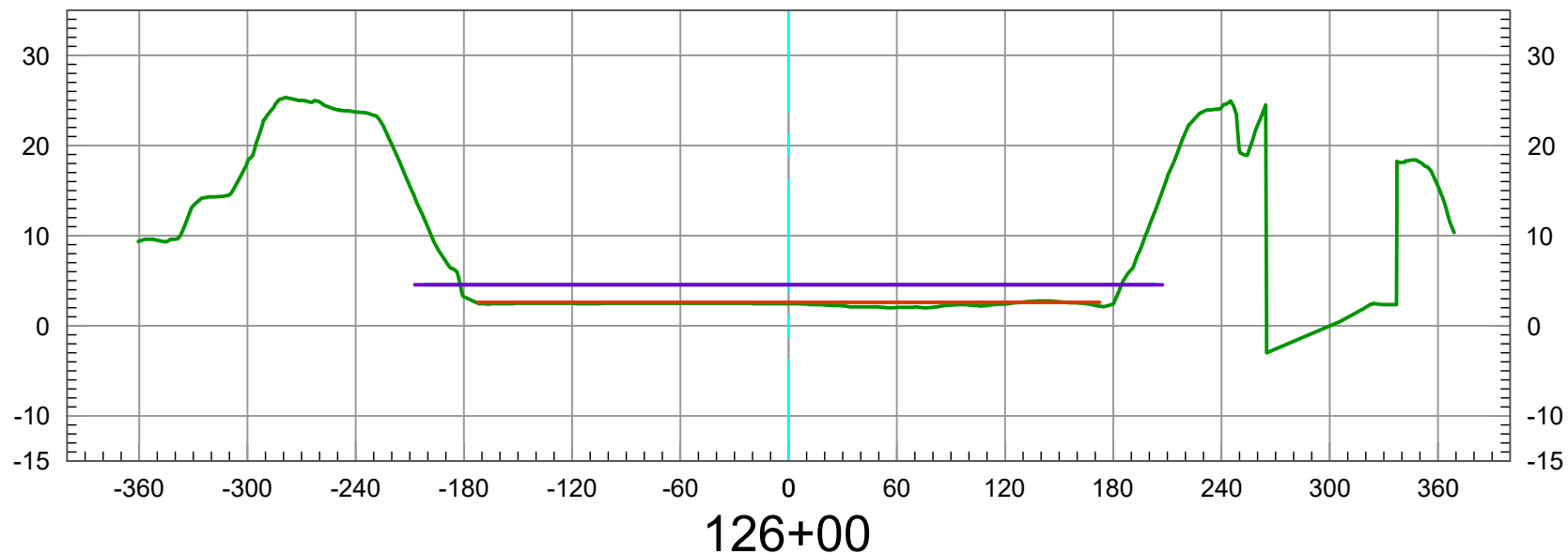
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



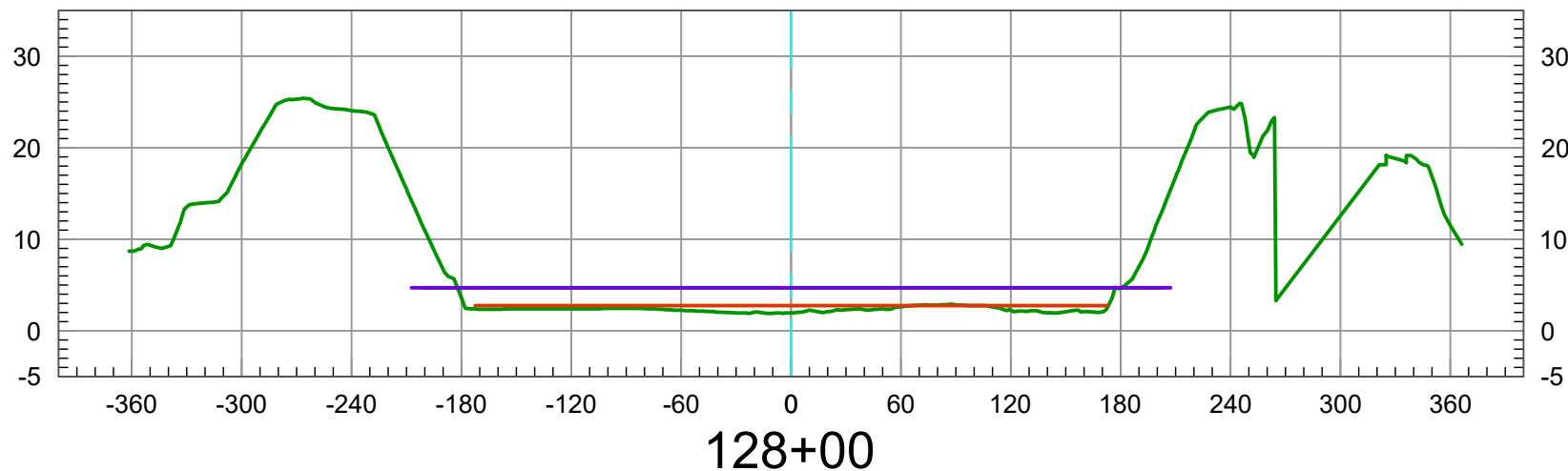
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



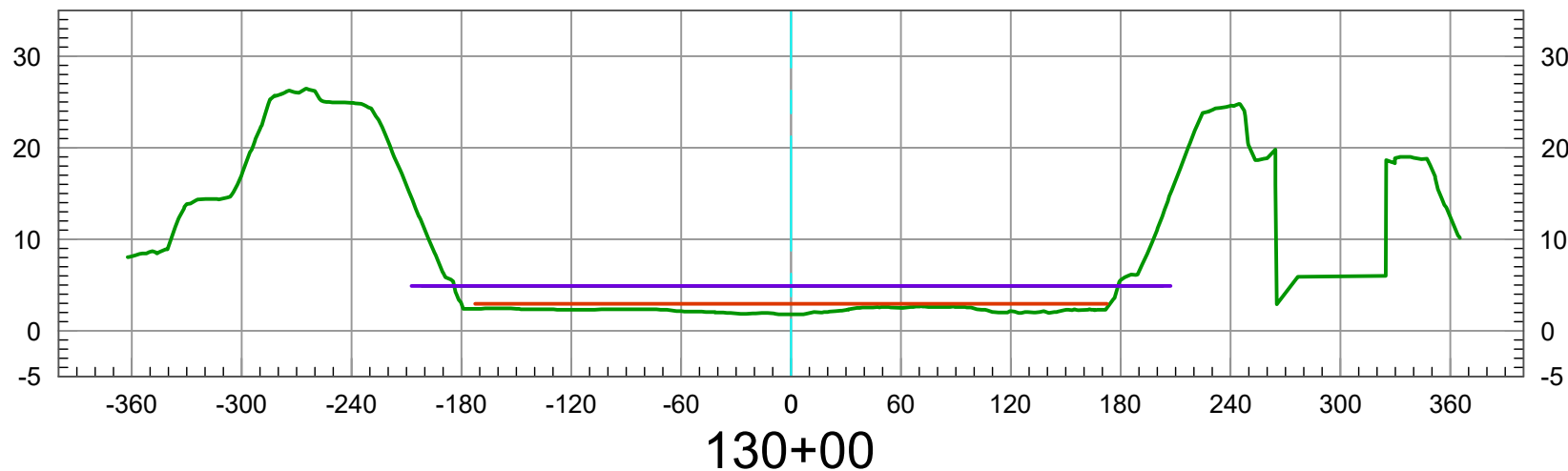
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



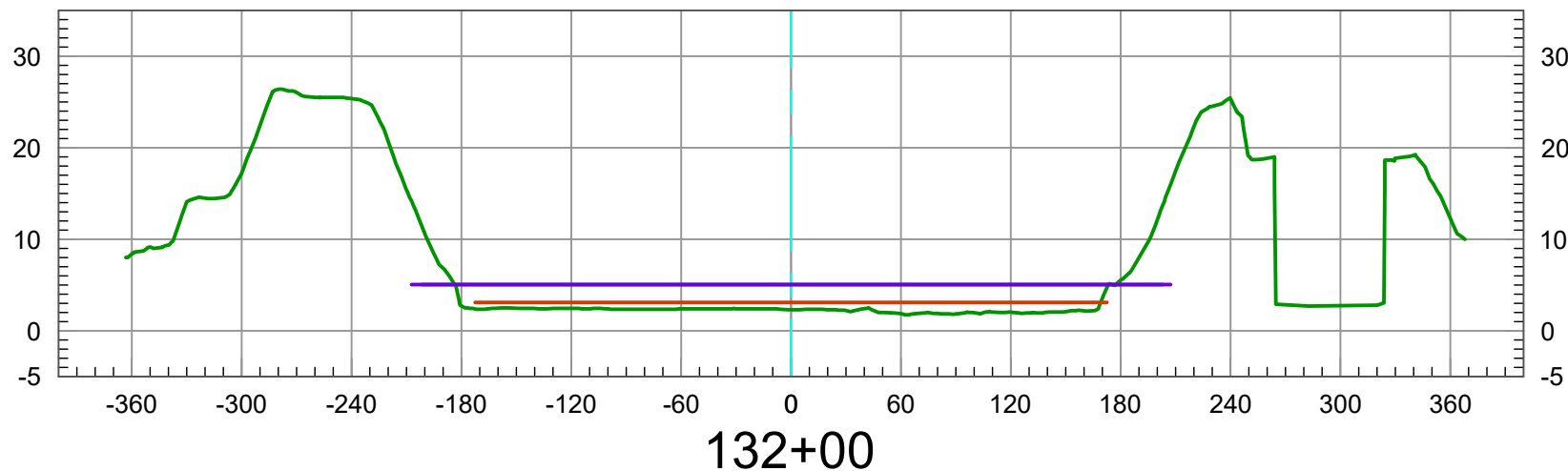
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



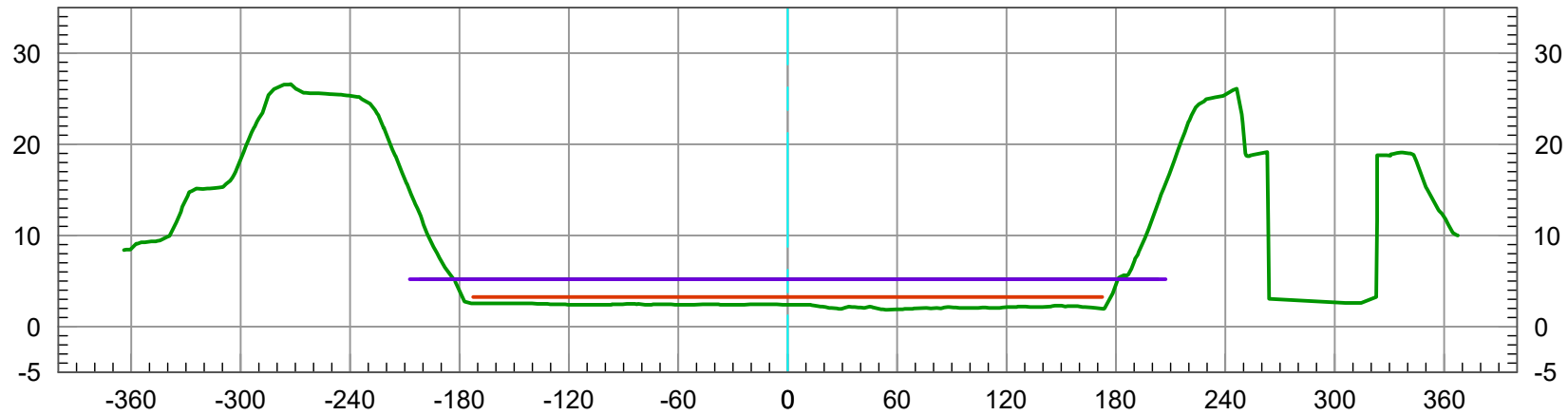
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



134+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



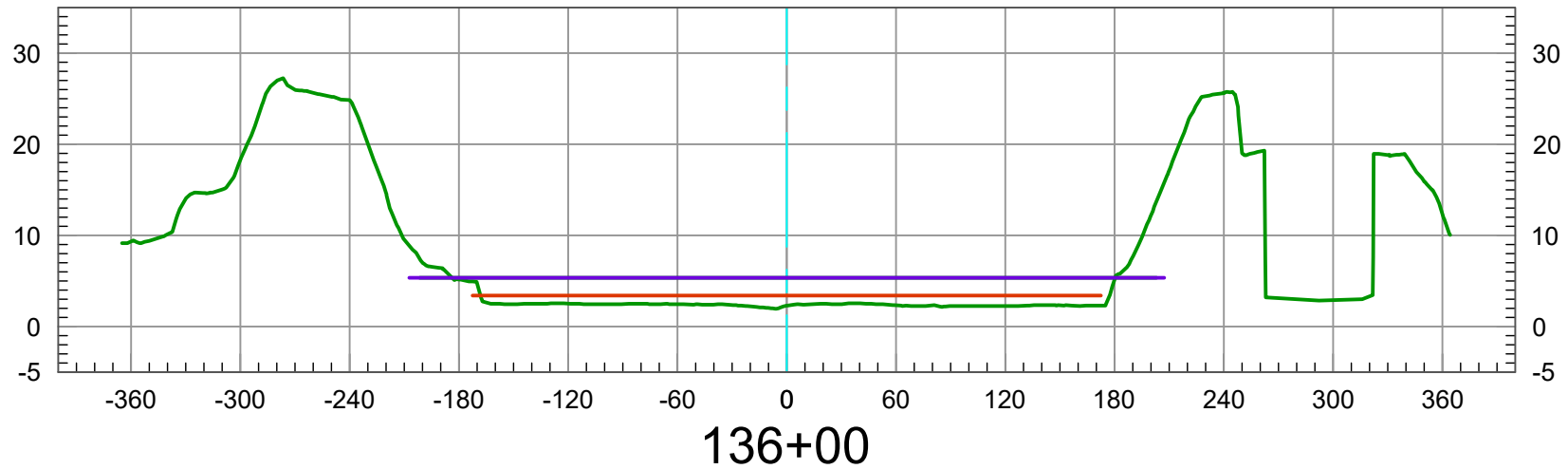
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



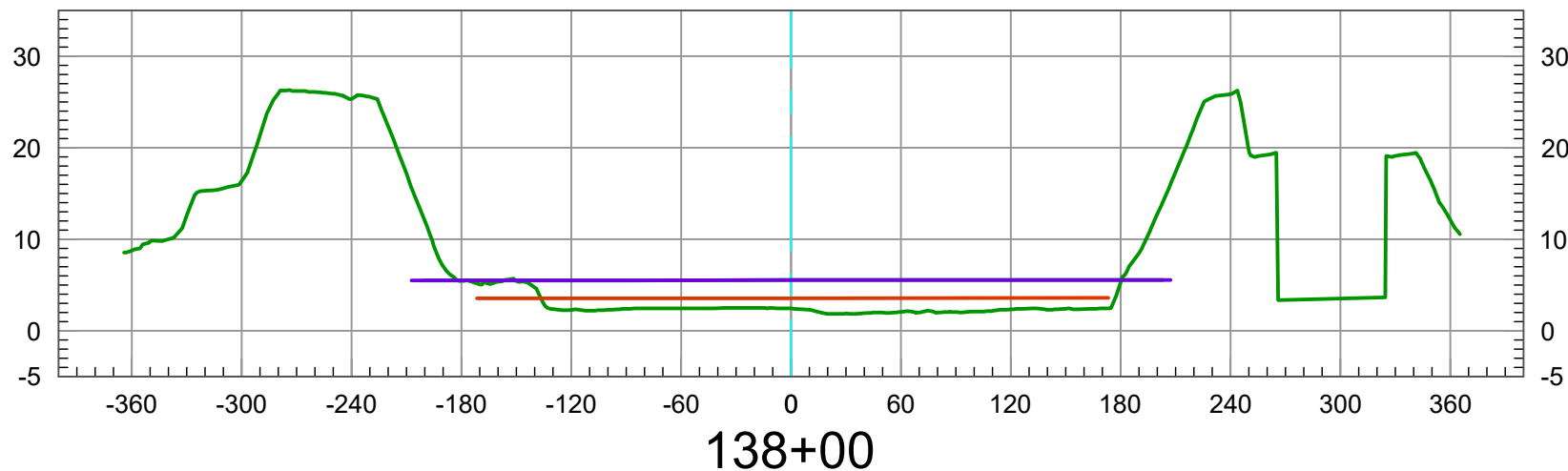
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
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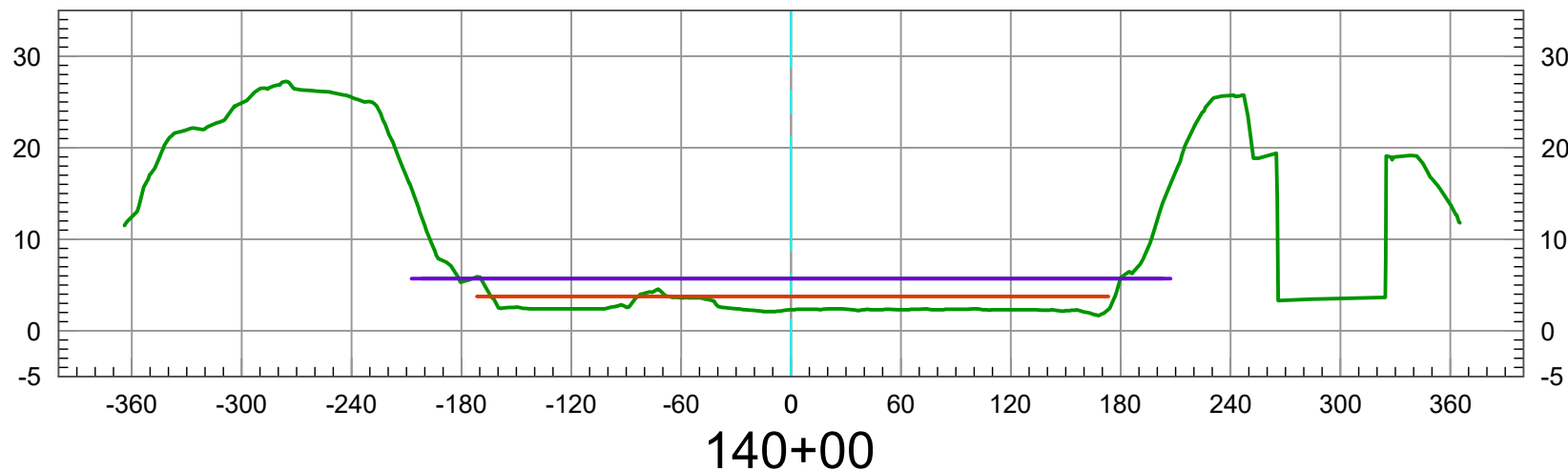
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
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2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



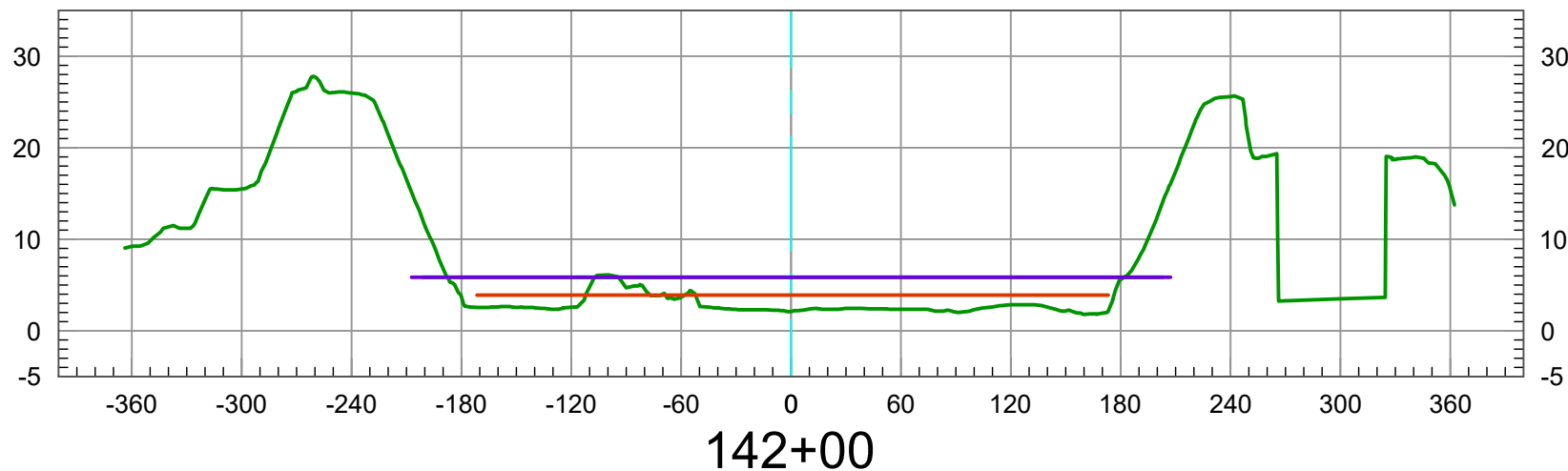
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



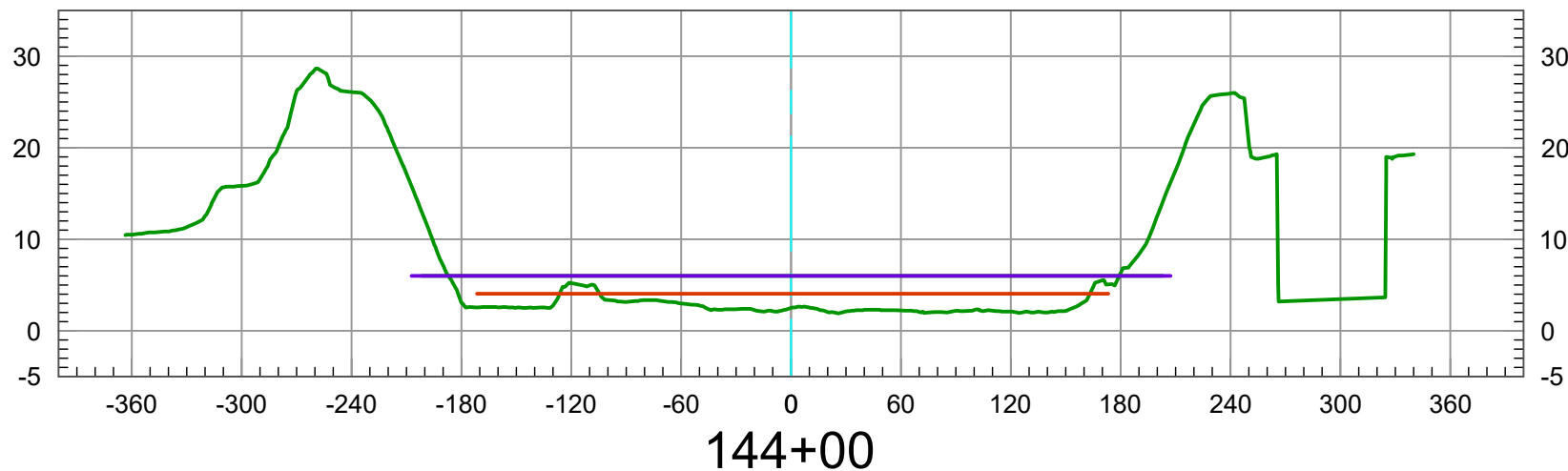
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



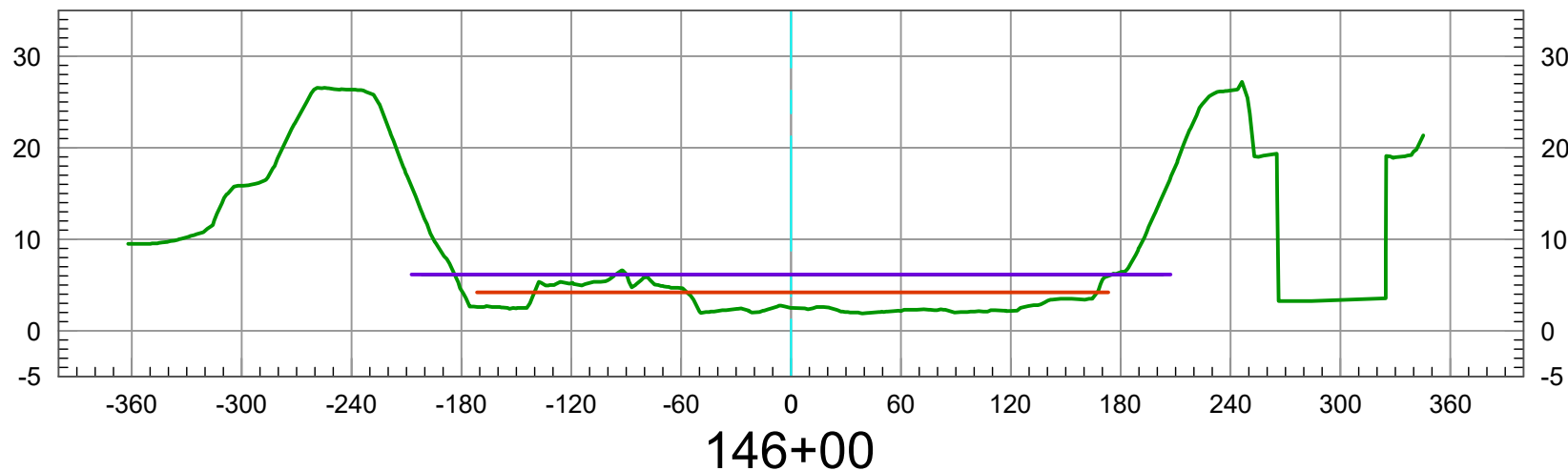
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



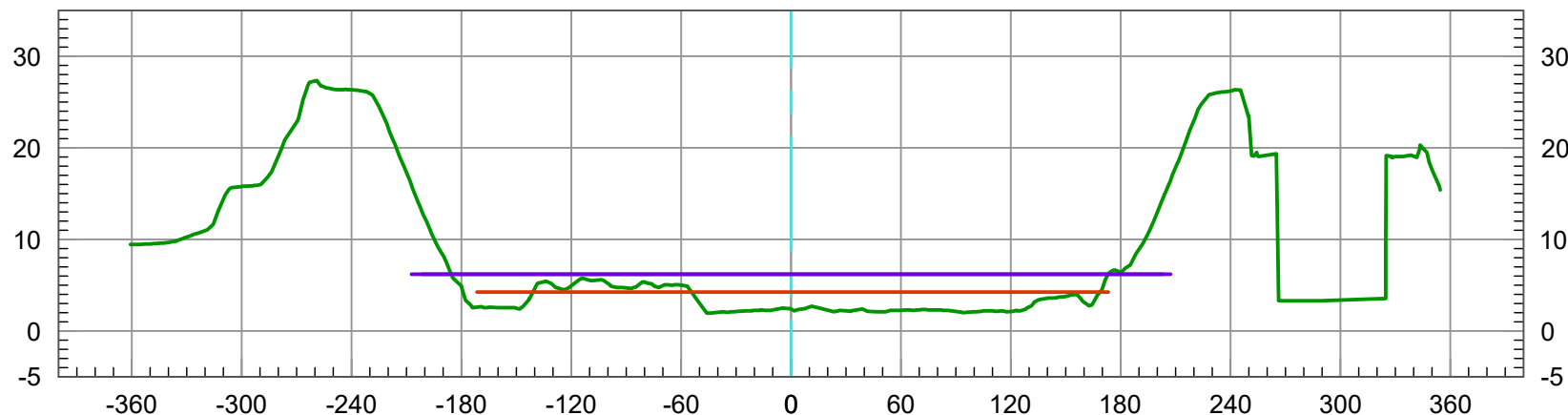
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) GRADE BREAK CL



146+32

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



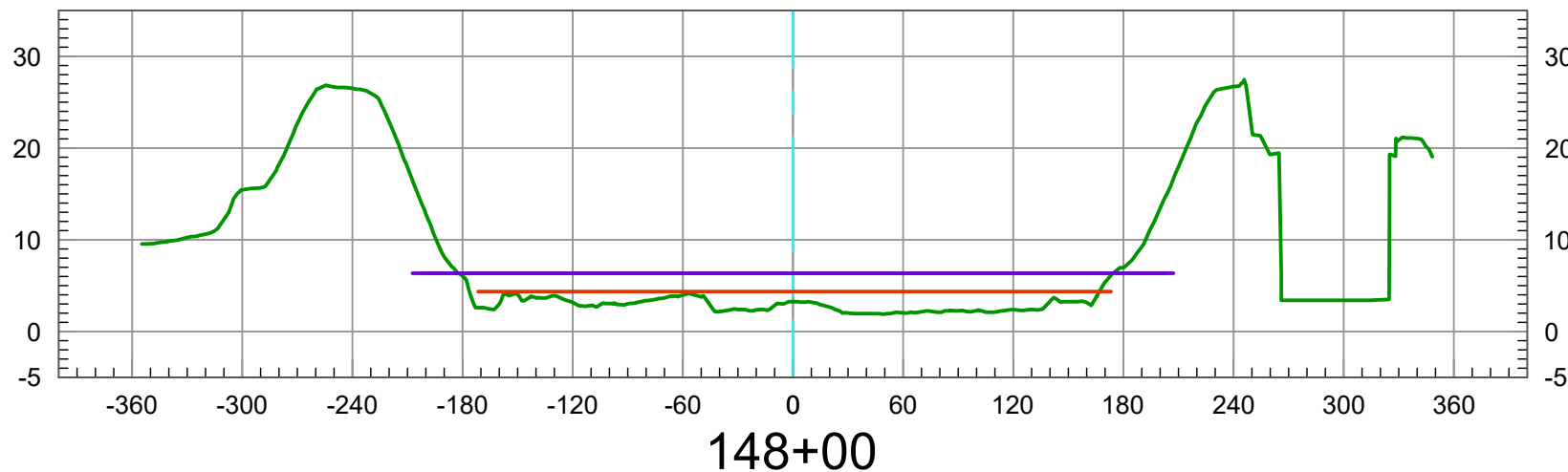
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



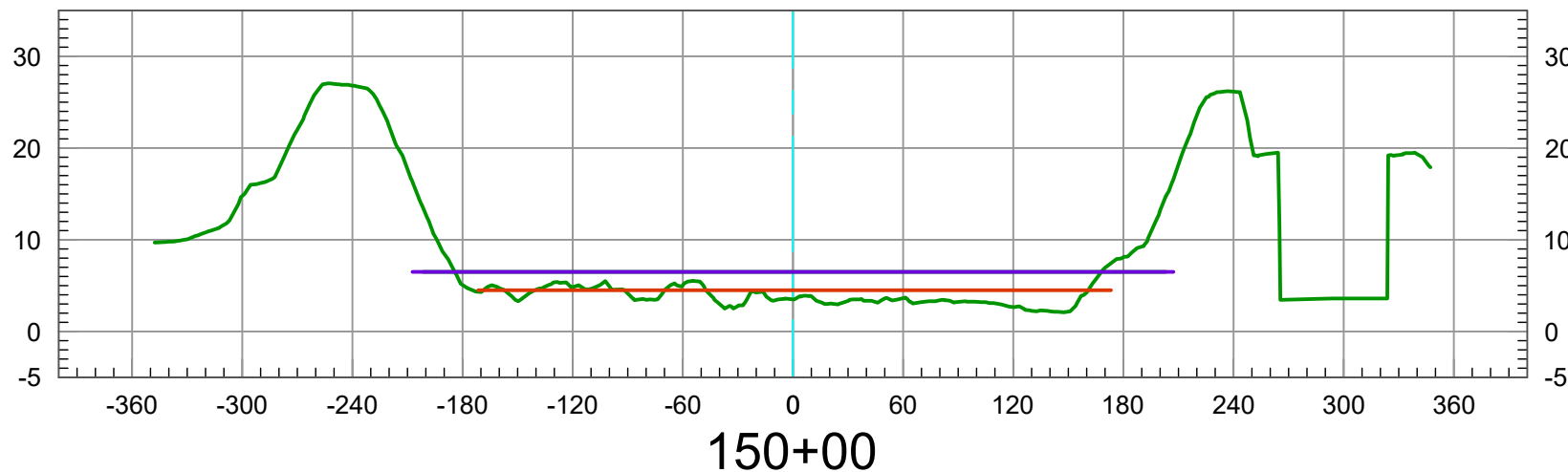
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



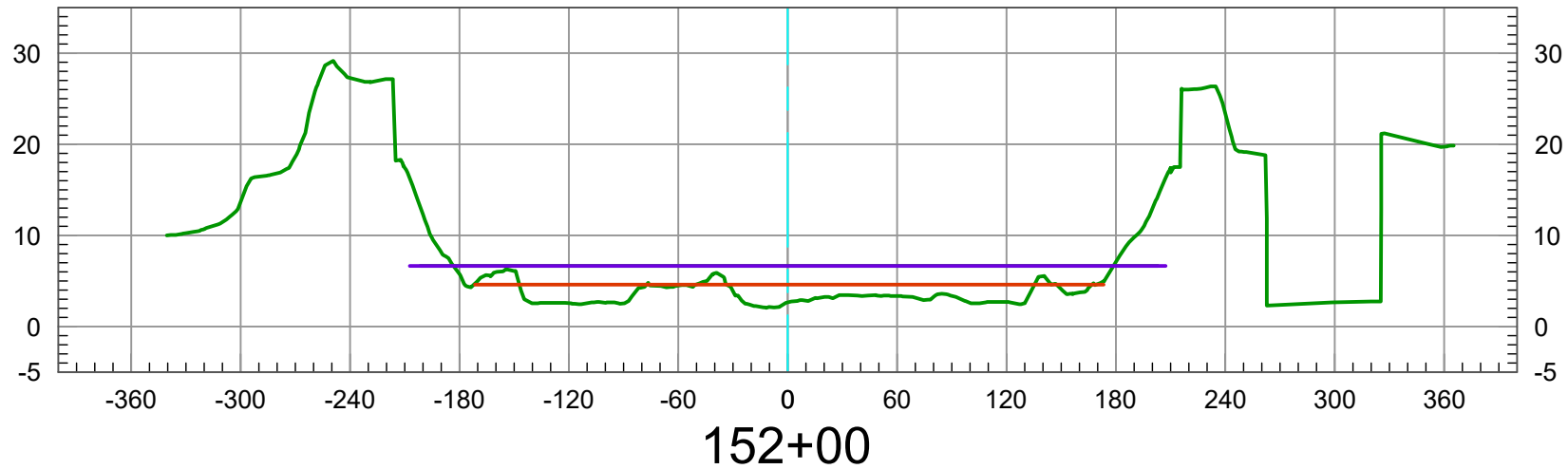
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



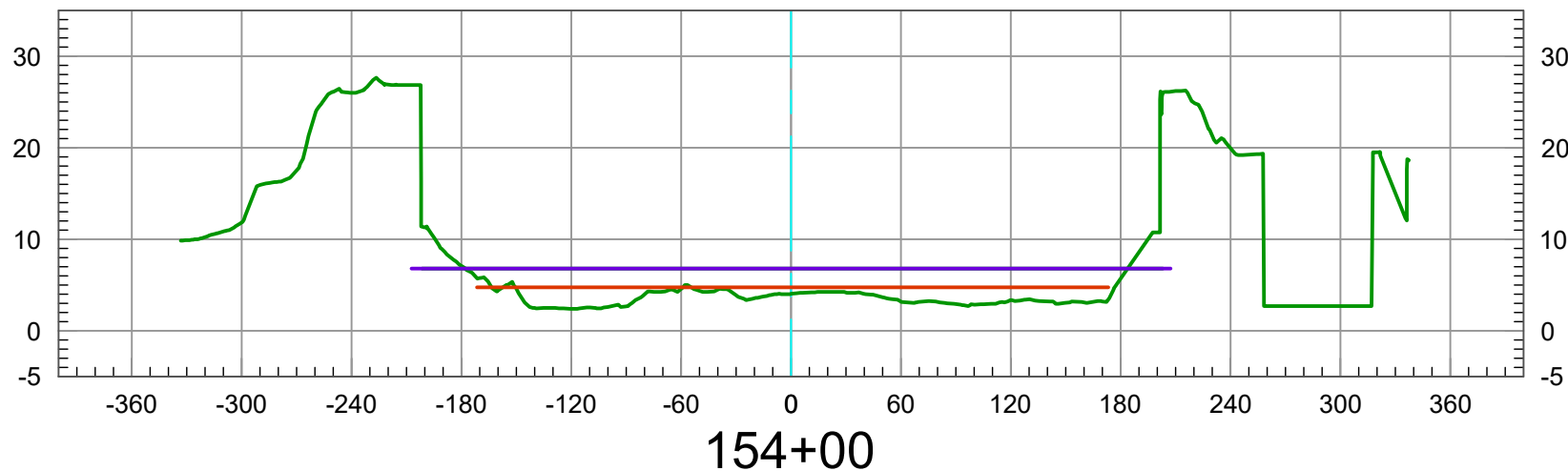
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



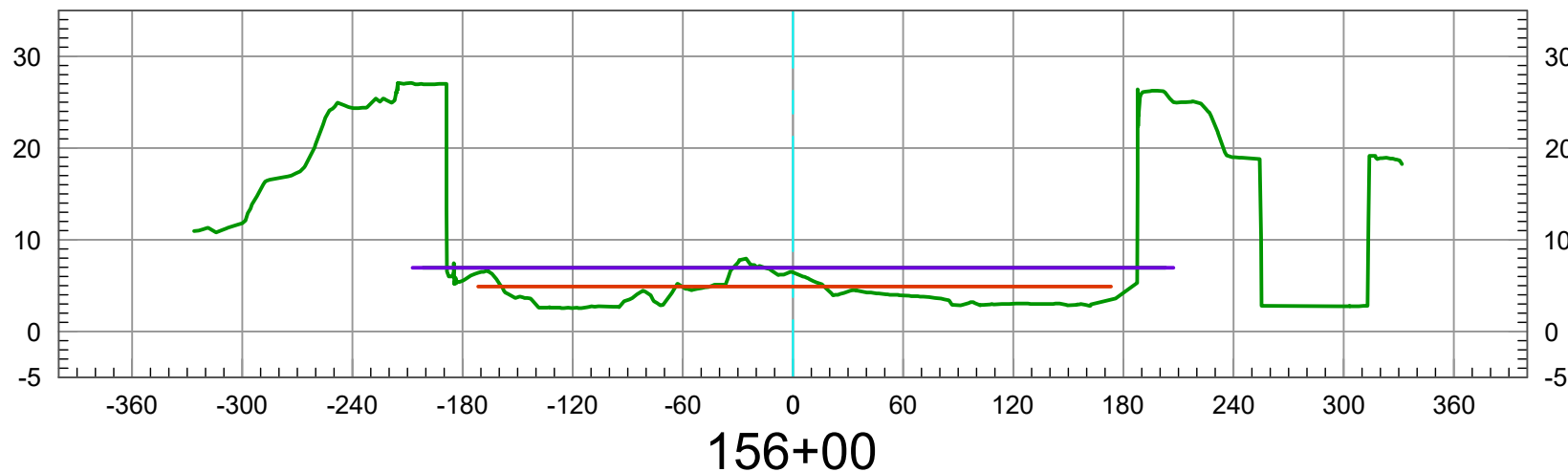
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



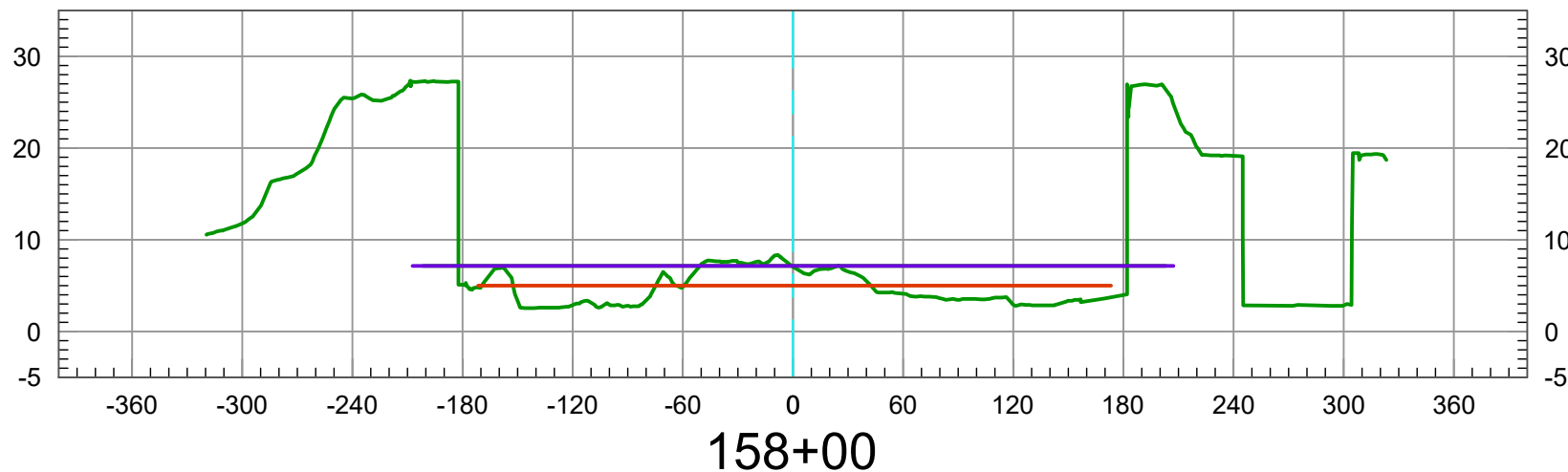
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



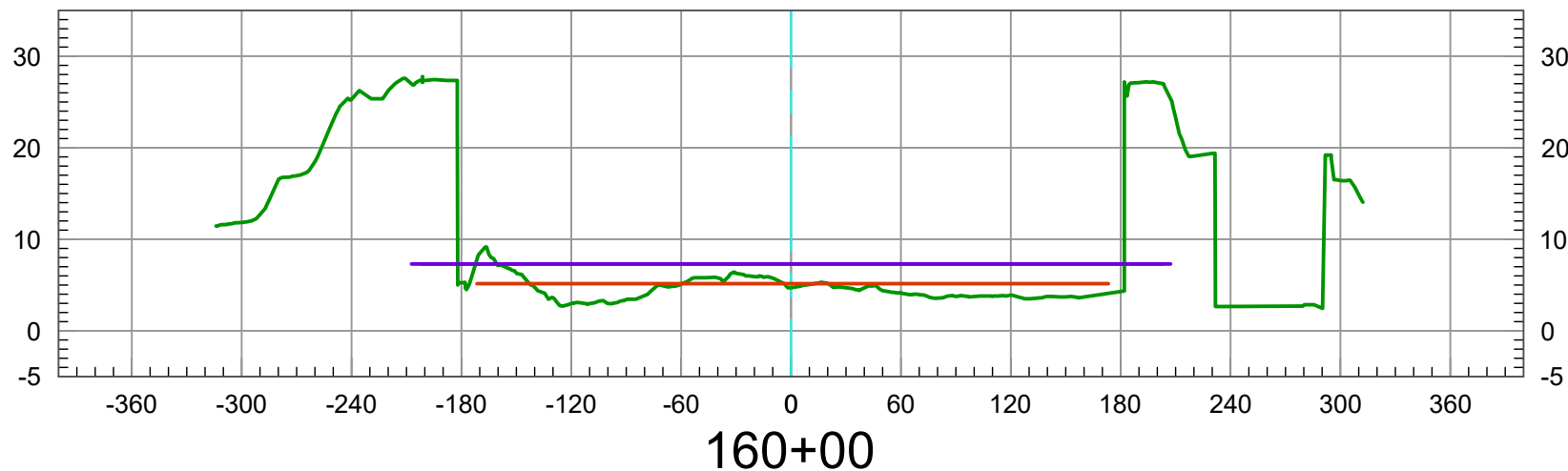
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



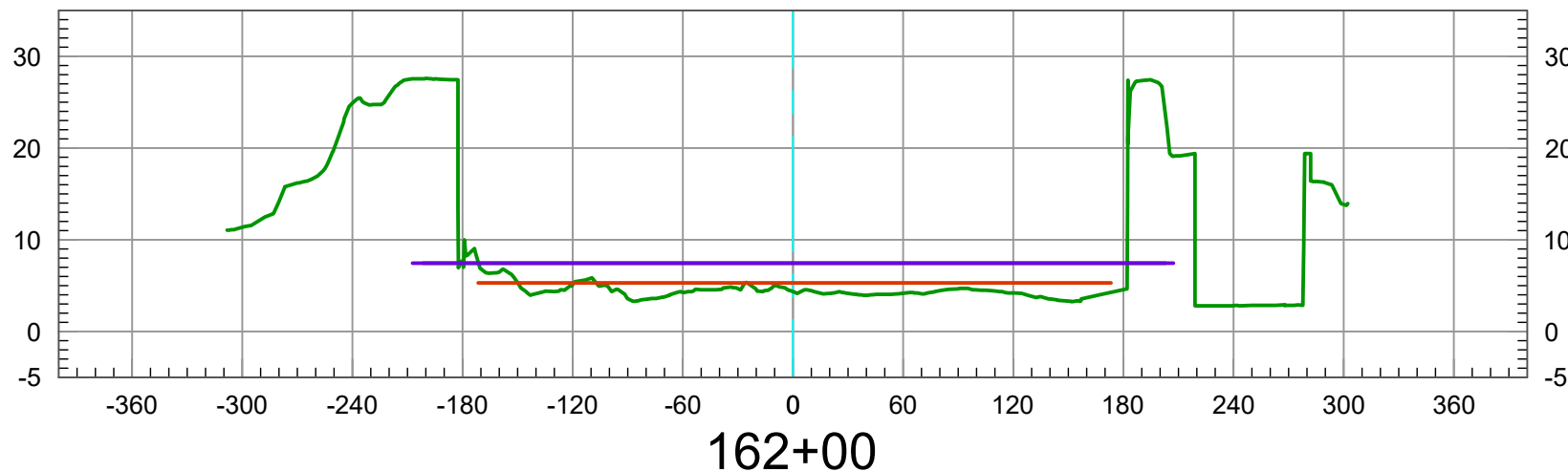
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



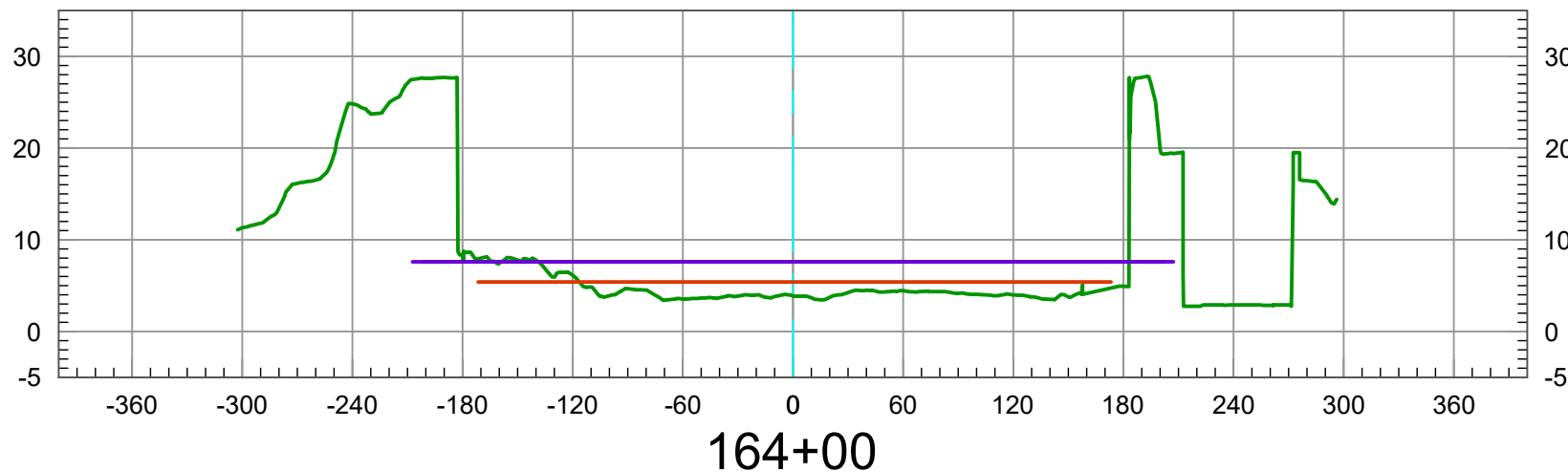
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



164+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



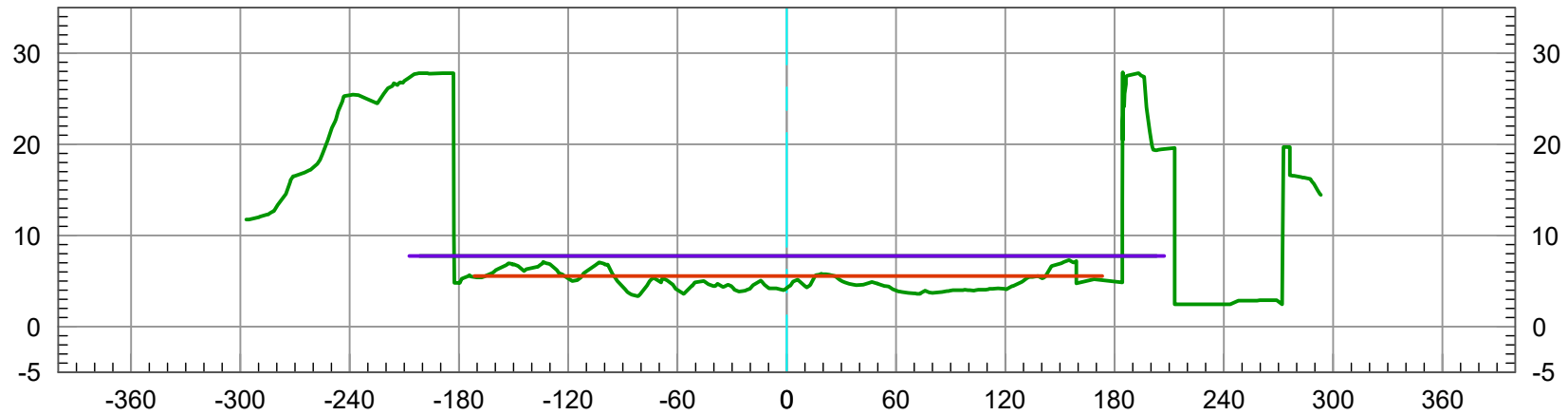
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



166+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



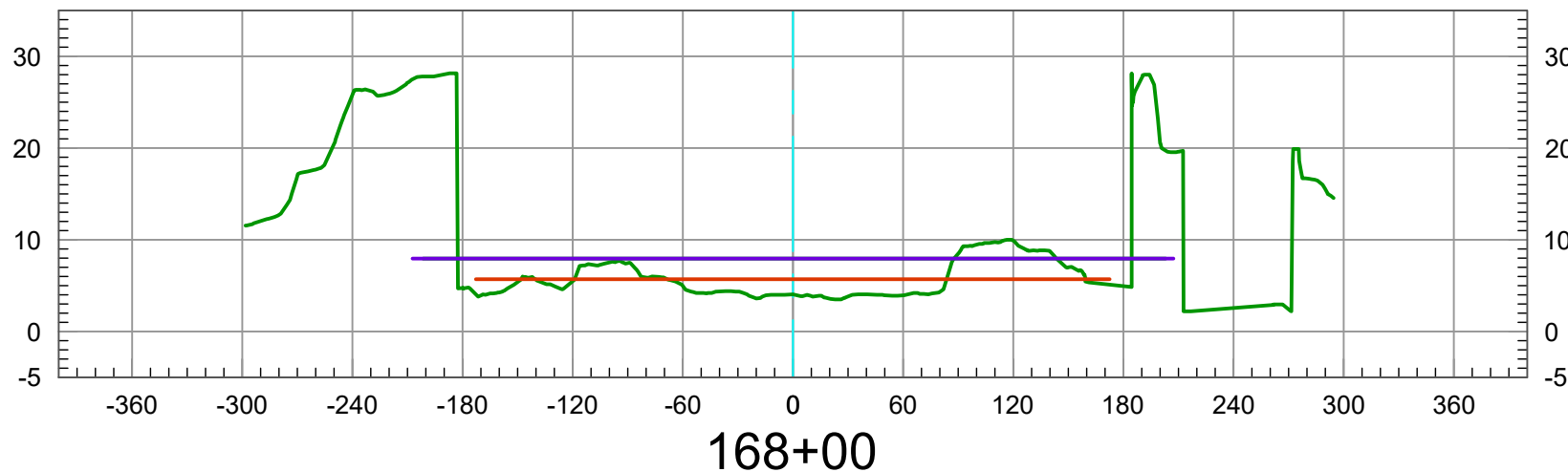
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



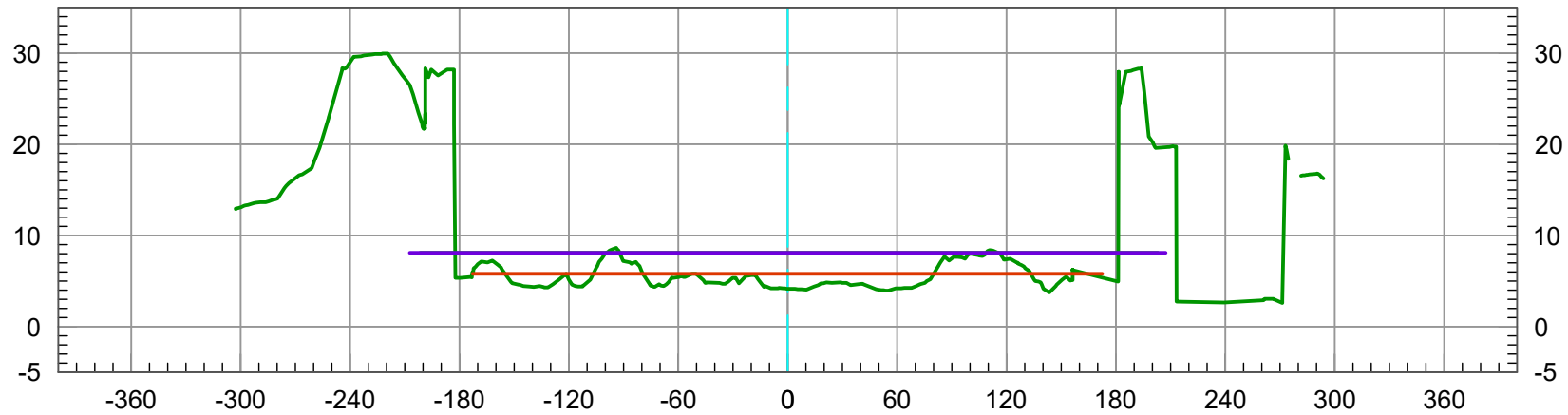
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



170+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



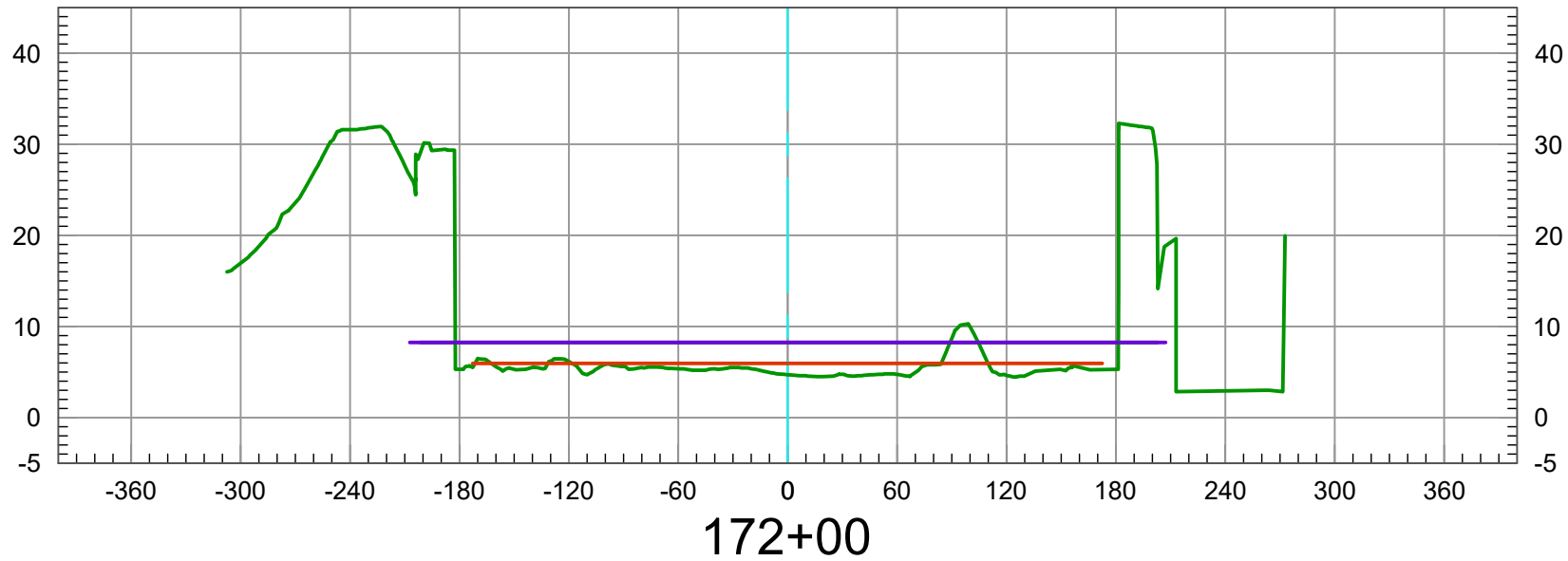
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



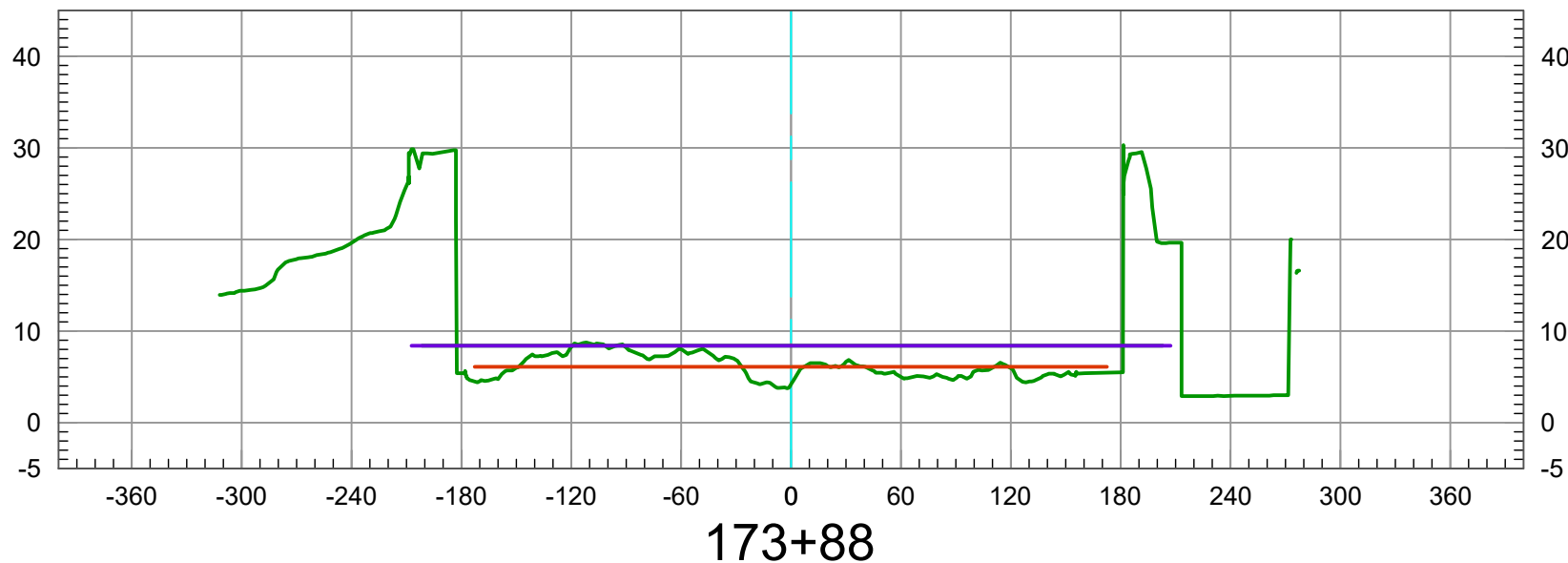
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) GRADE BREAK CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



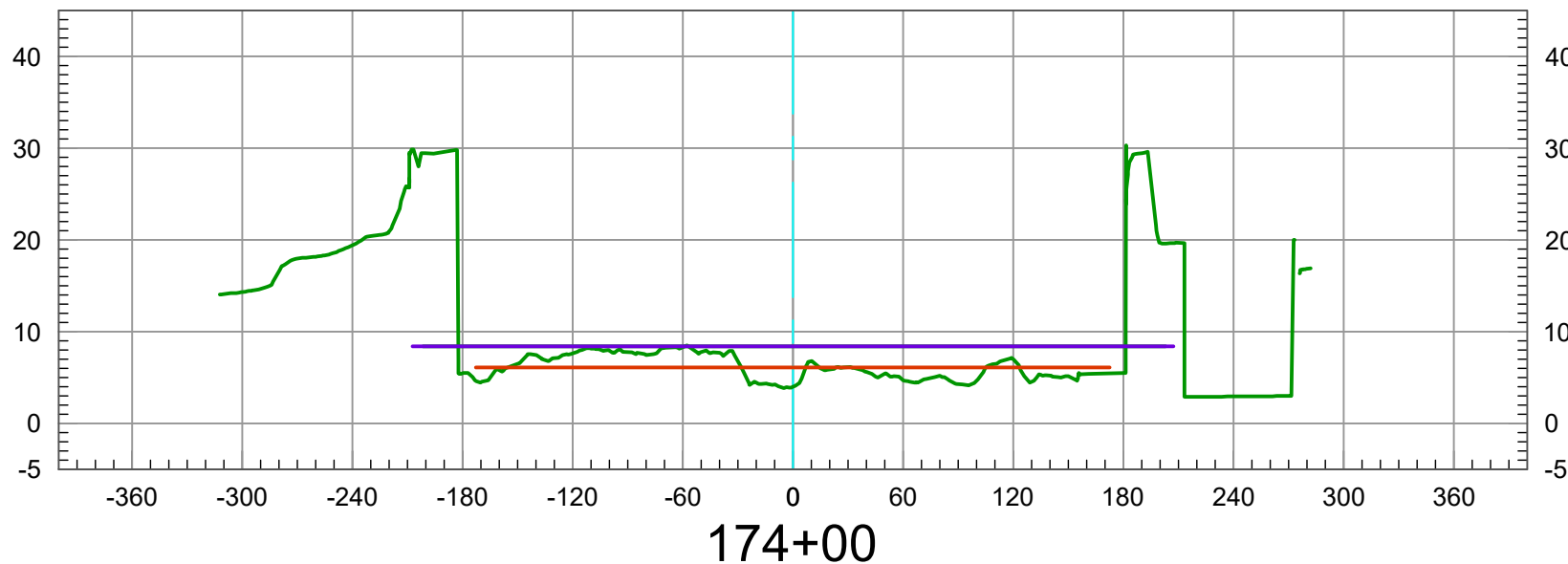
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



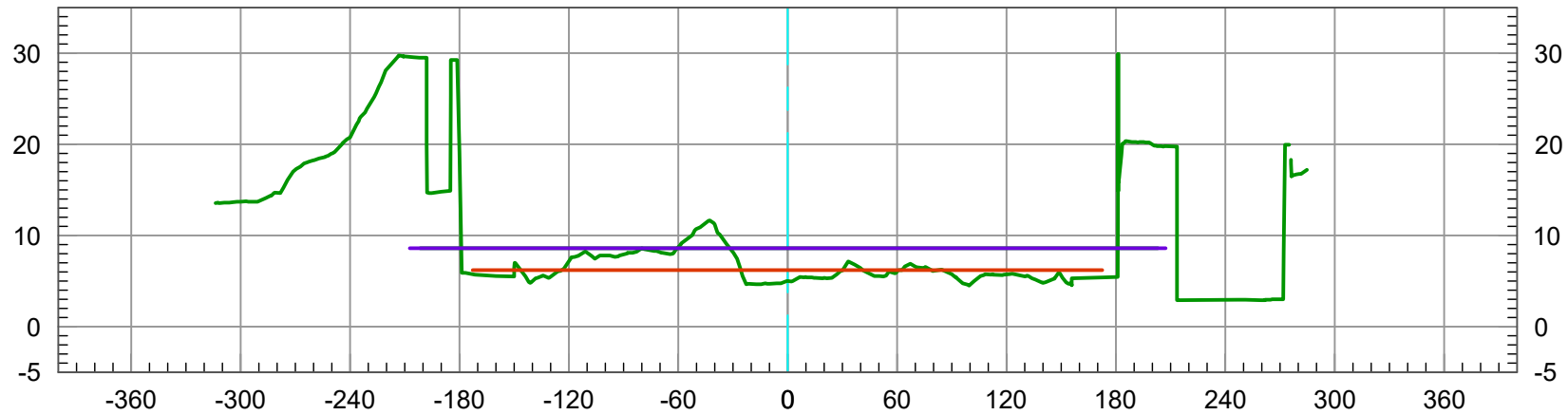
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



176+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



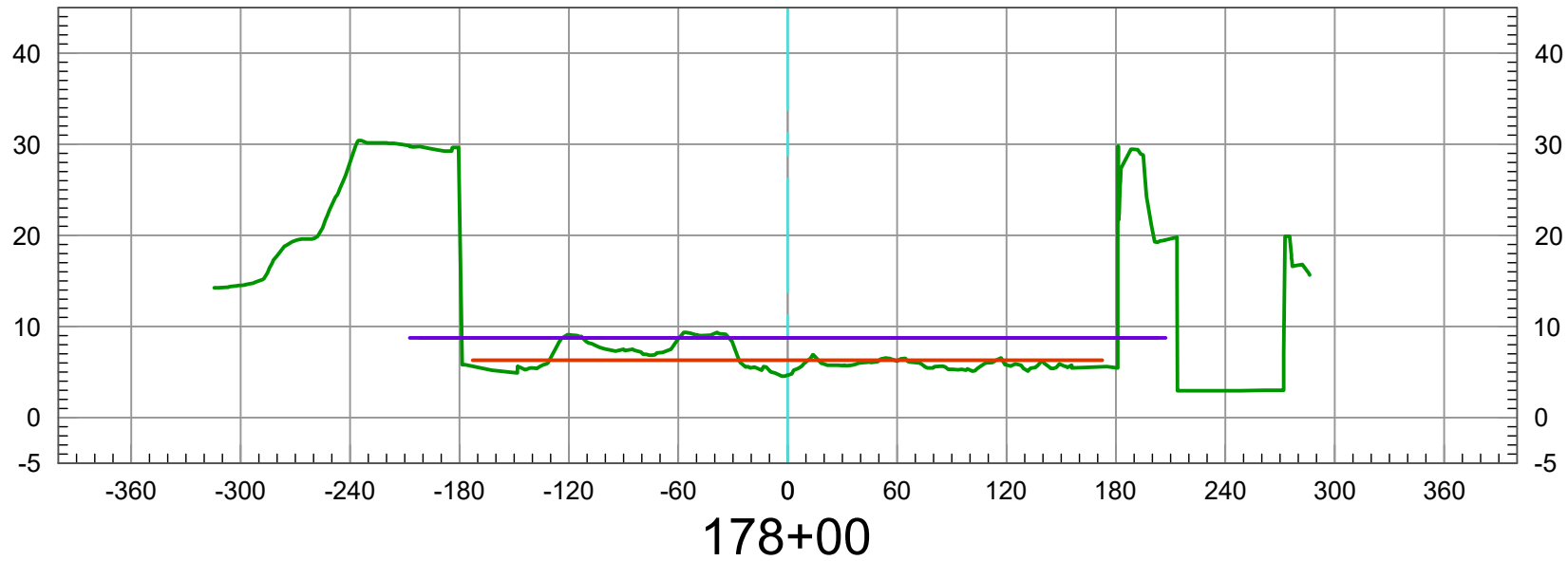
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



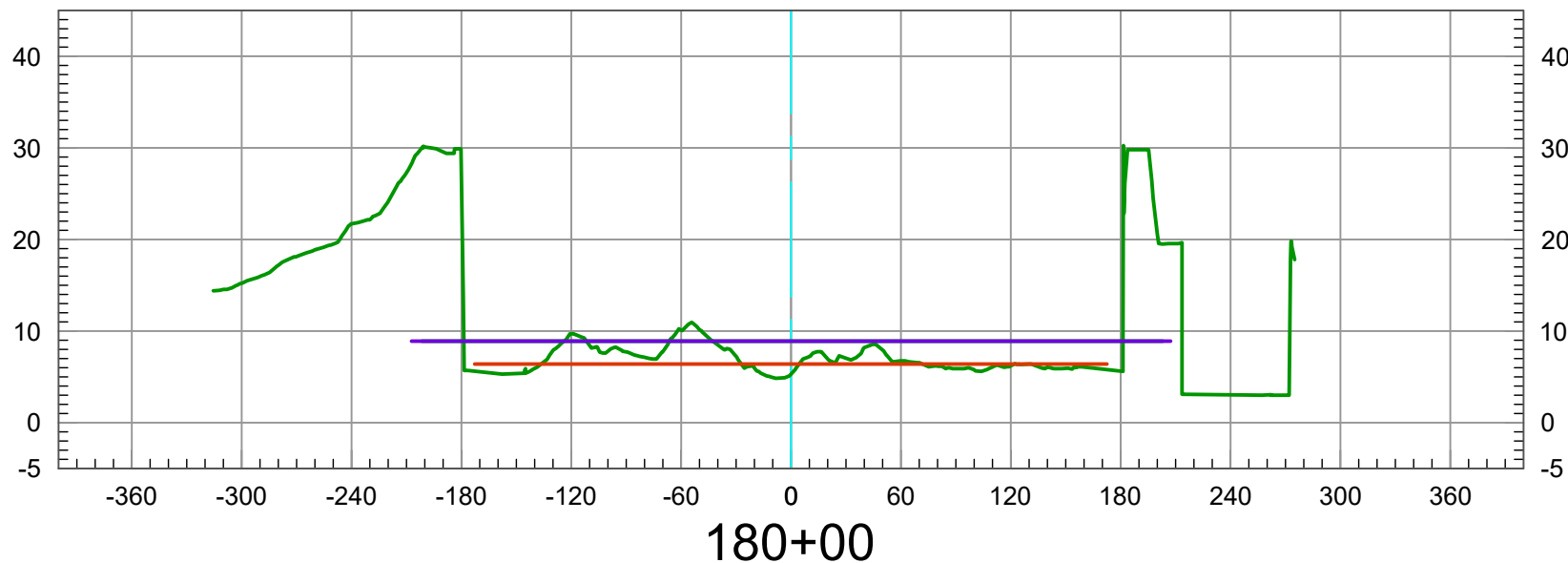
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



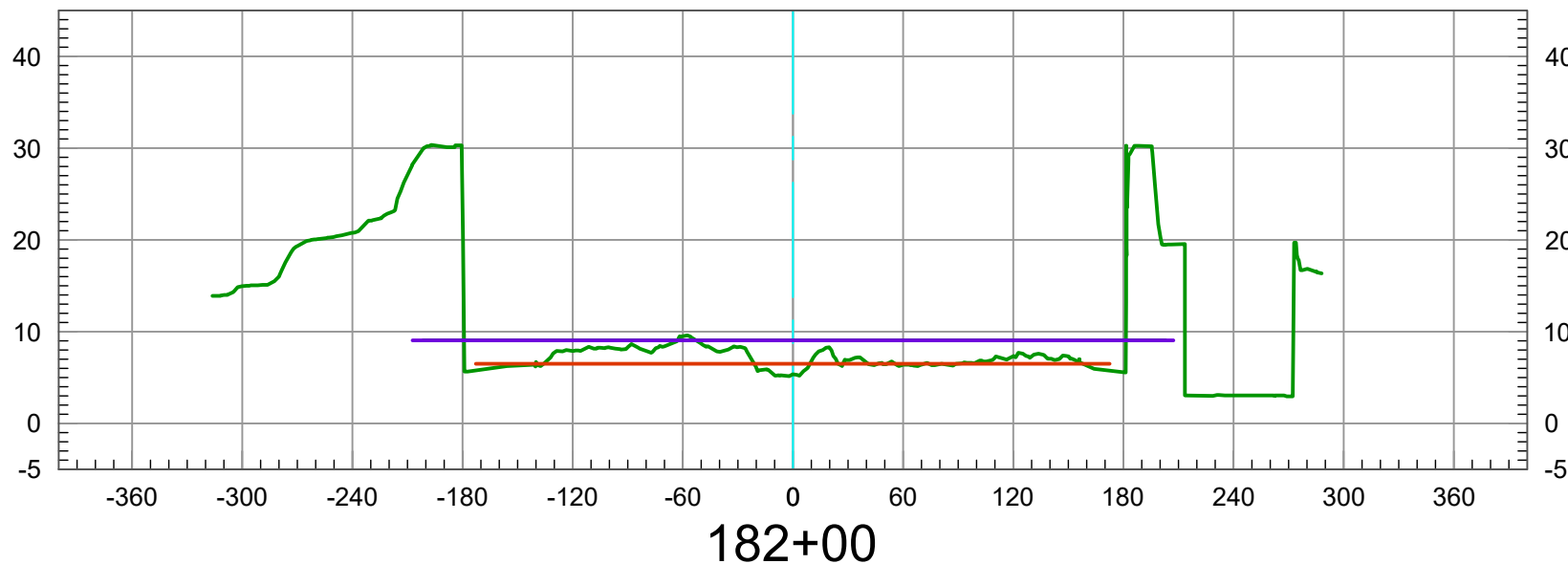
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



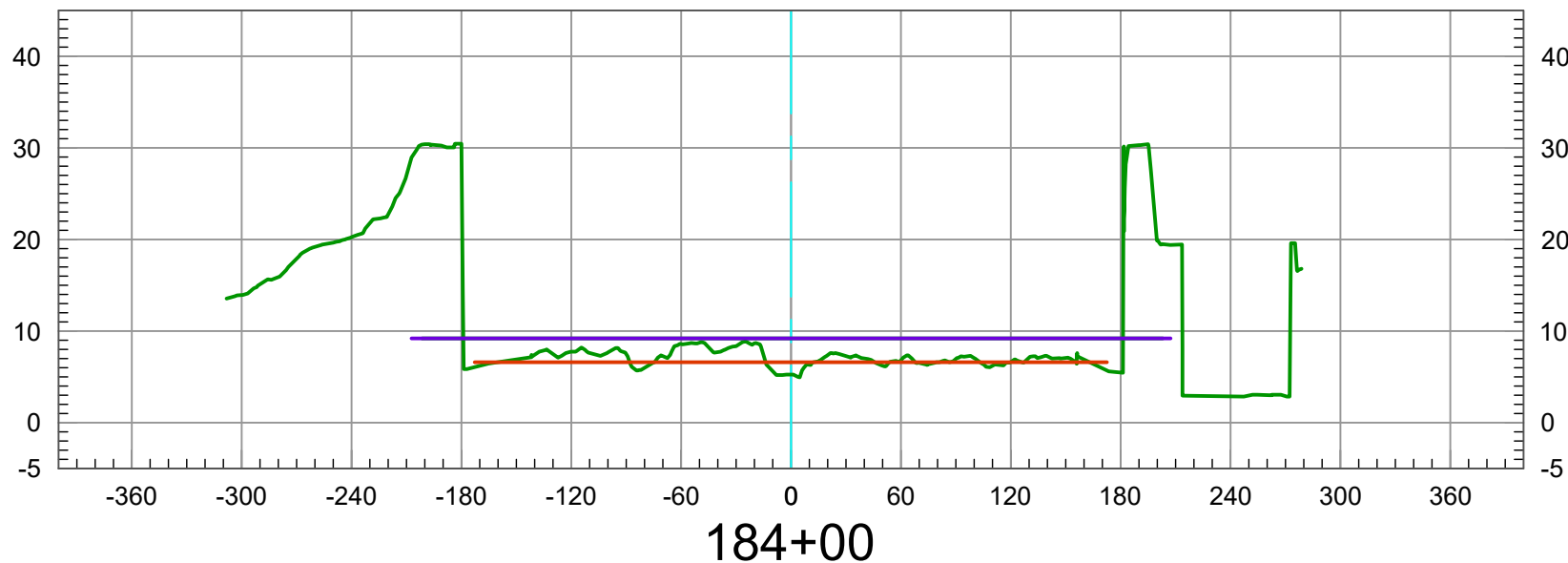
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



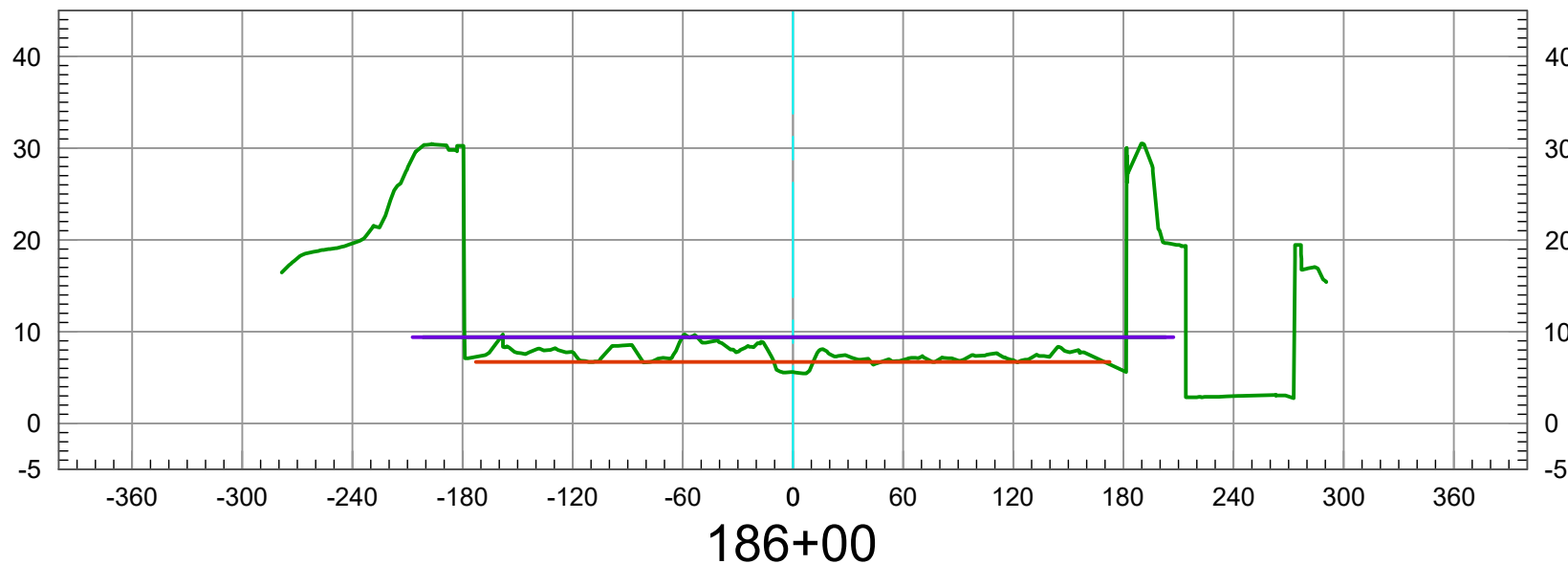
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



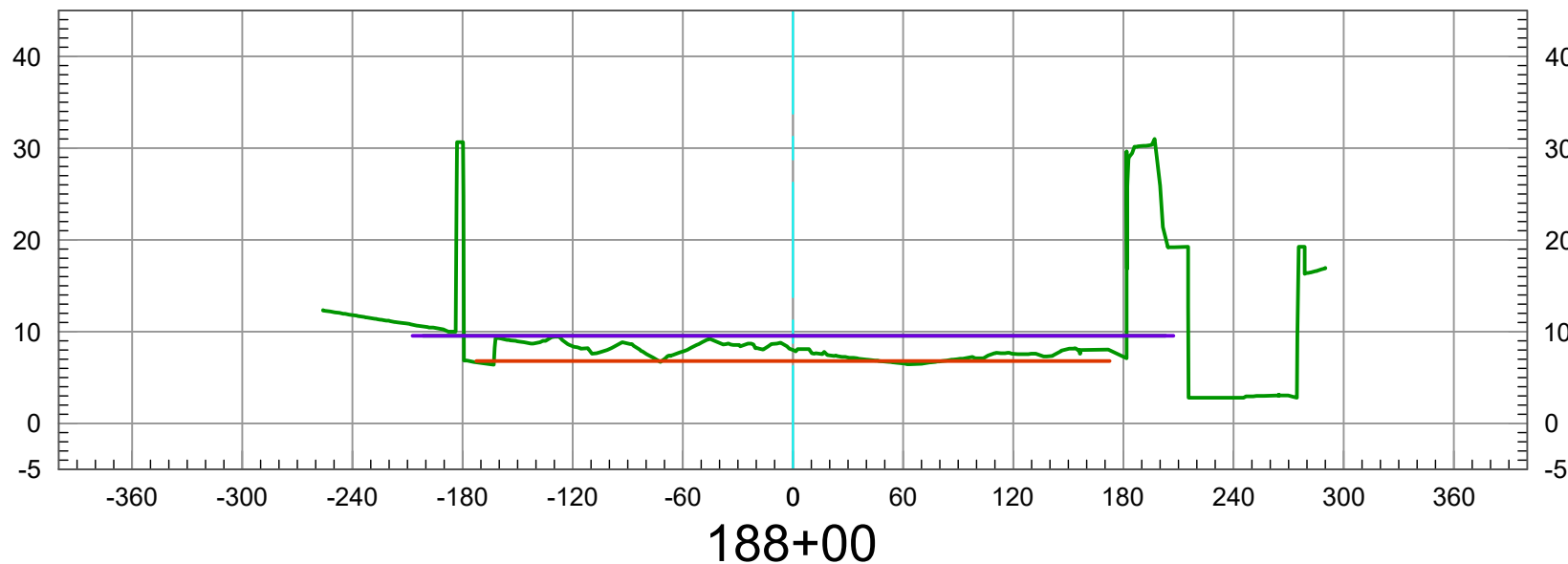
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



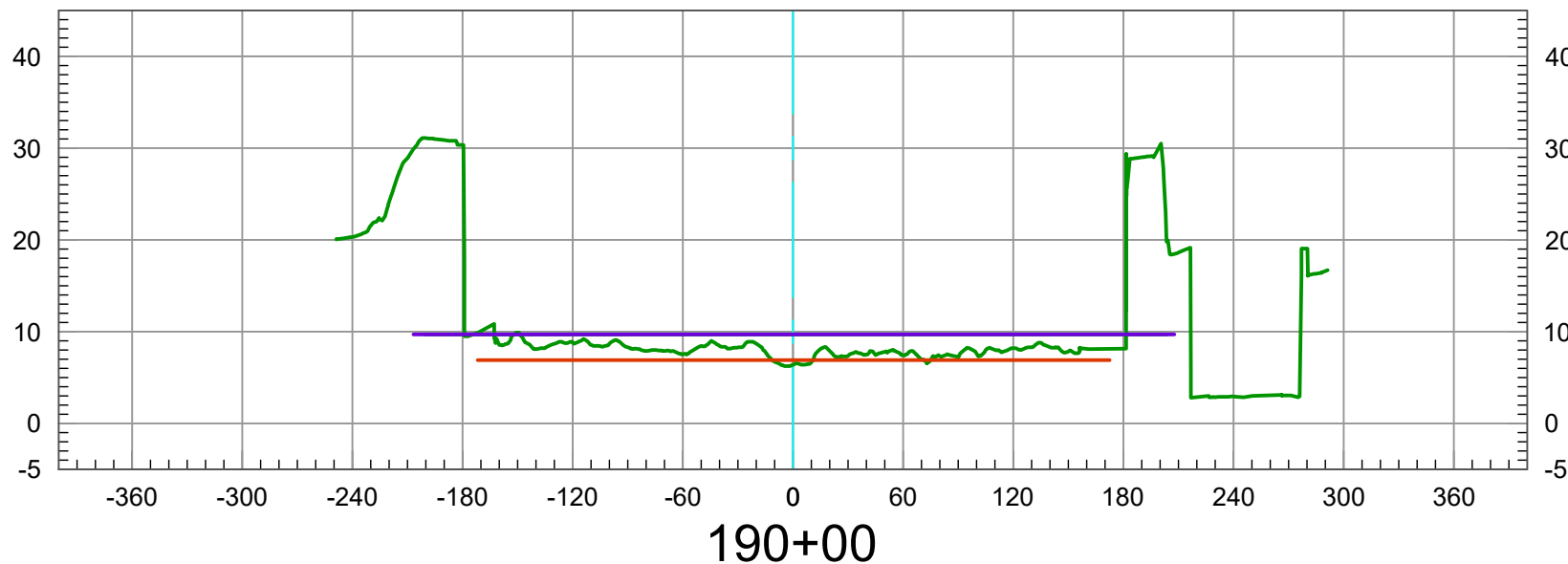
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



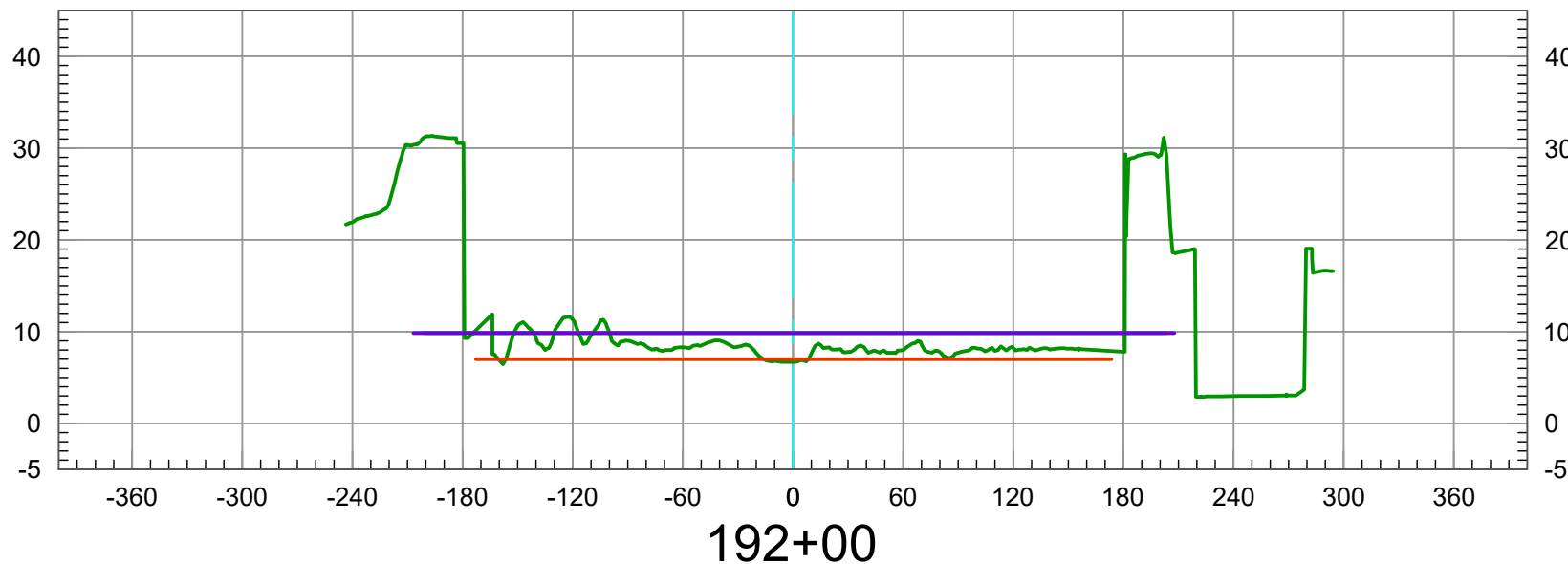
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



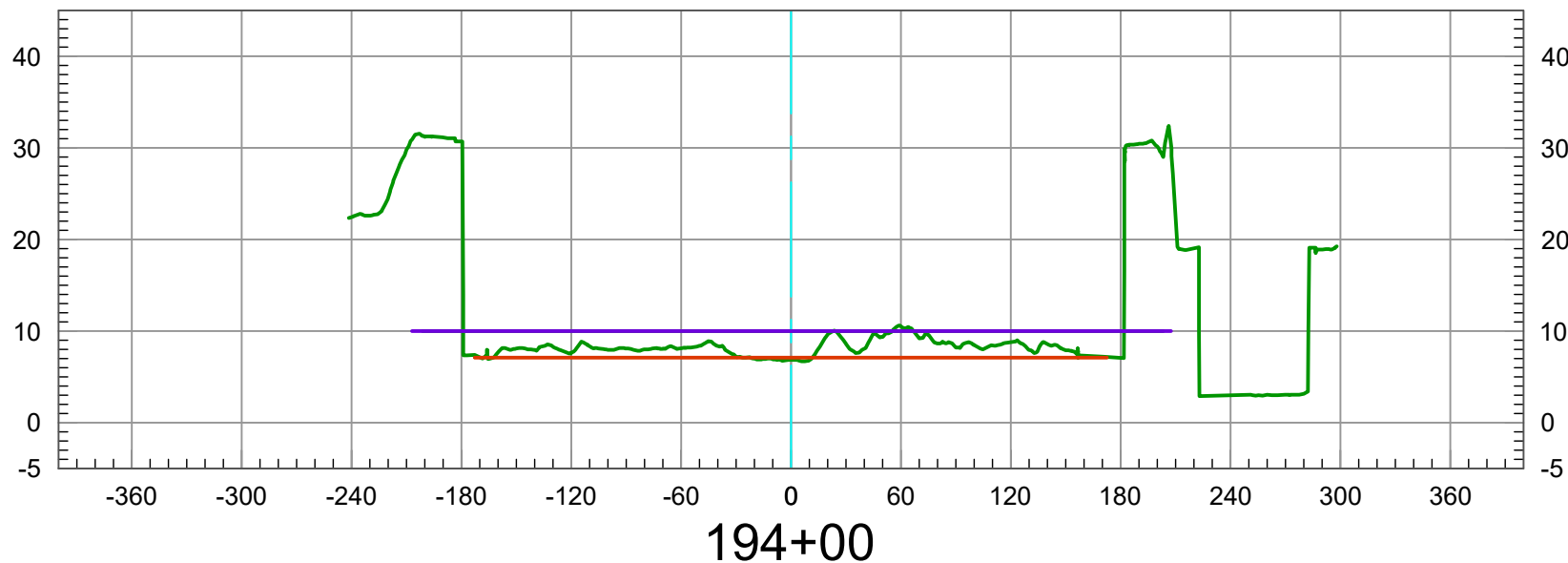
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



194+00

2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



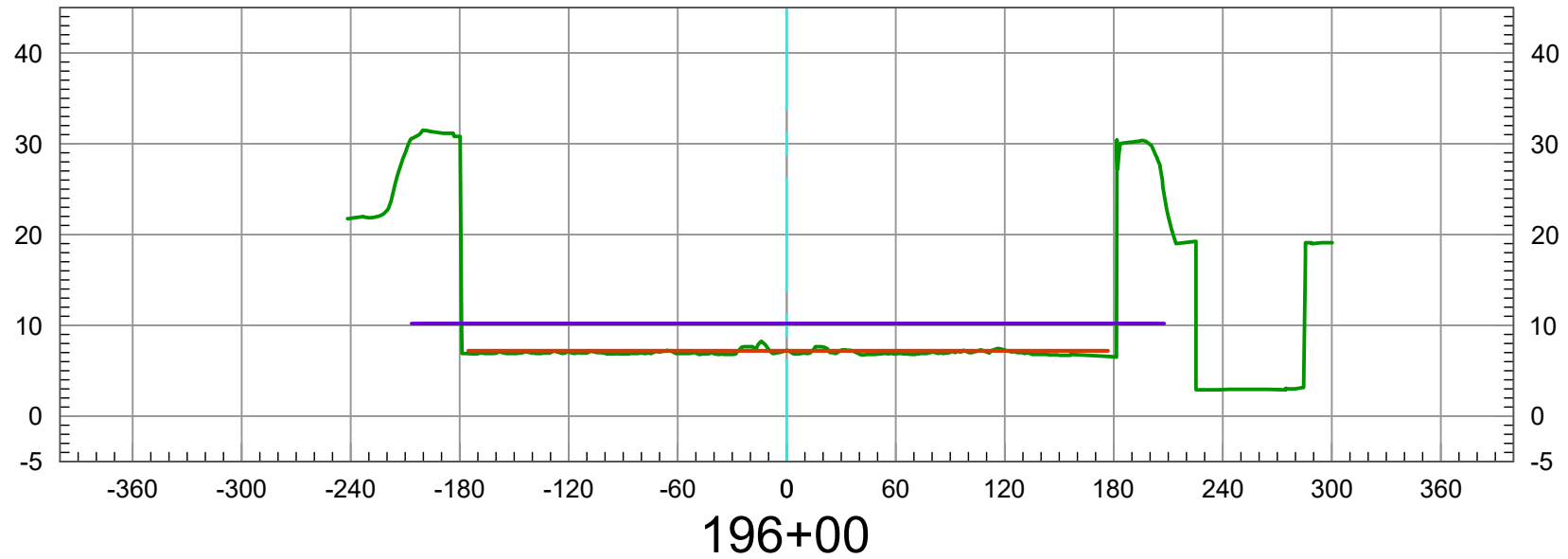
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



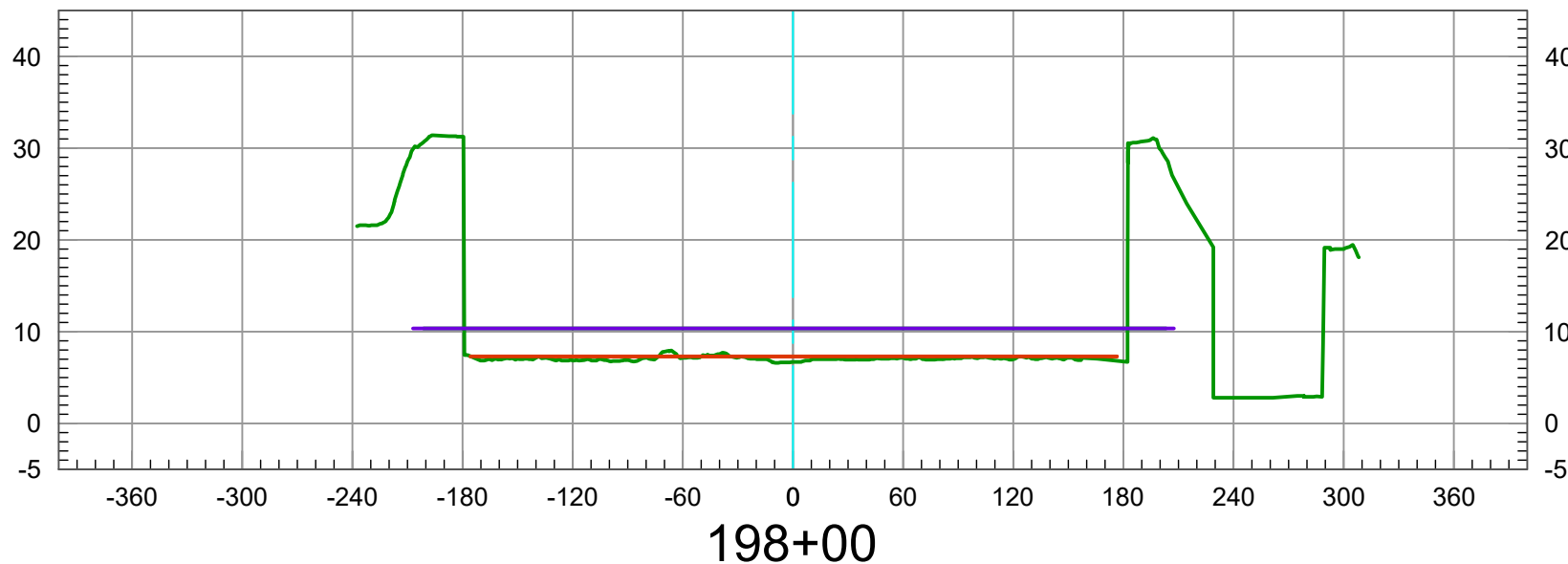
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



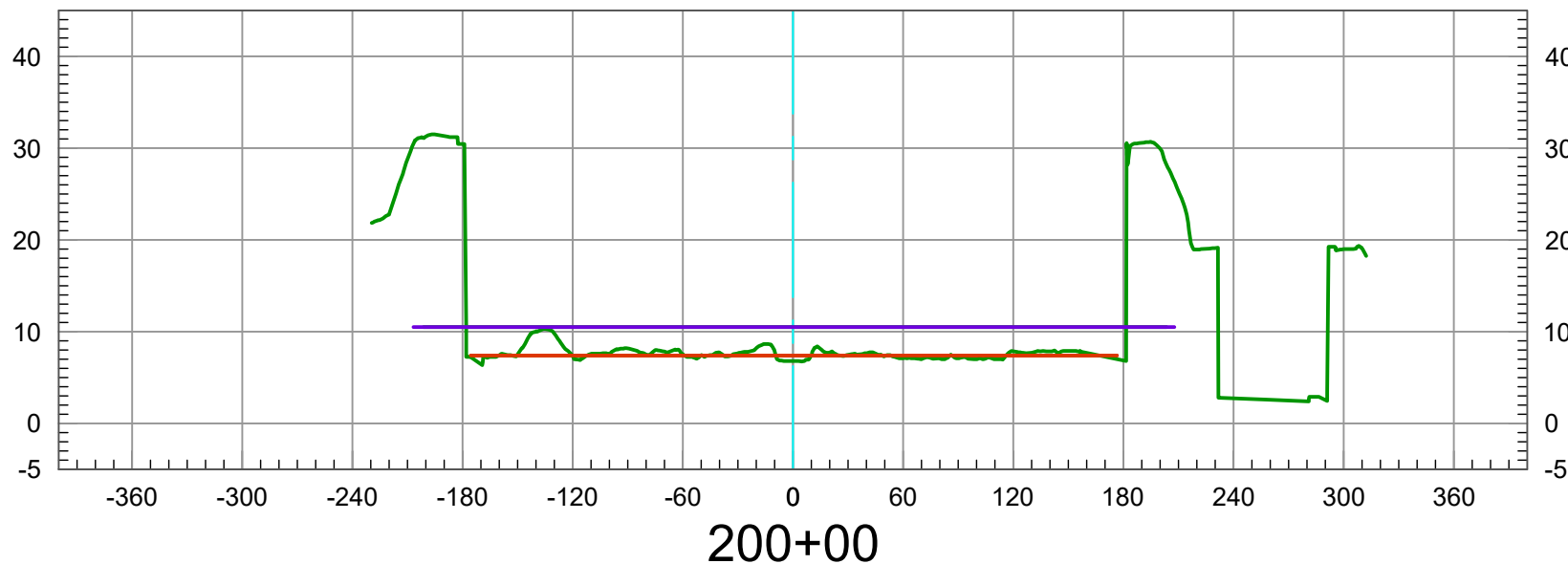
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
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2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



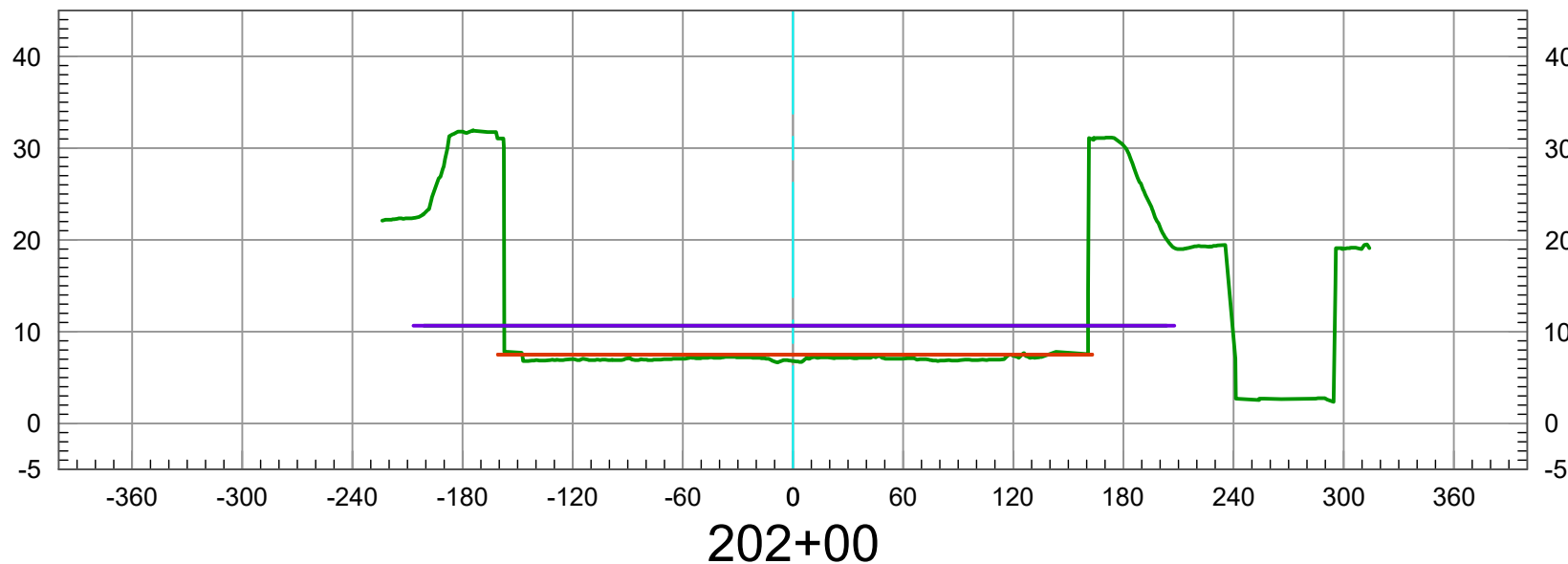
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



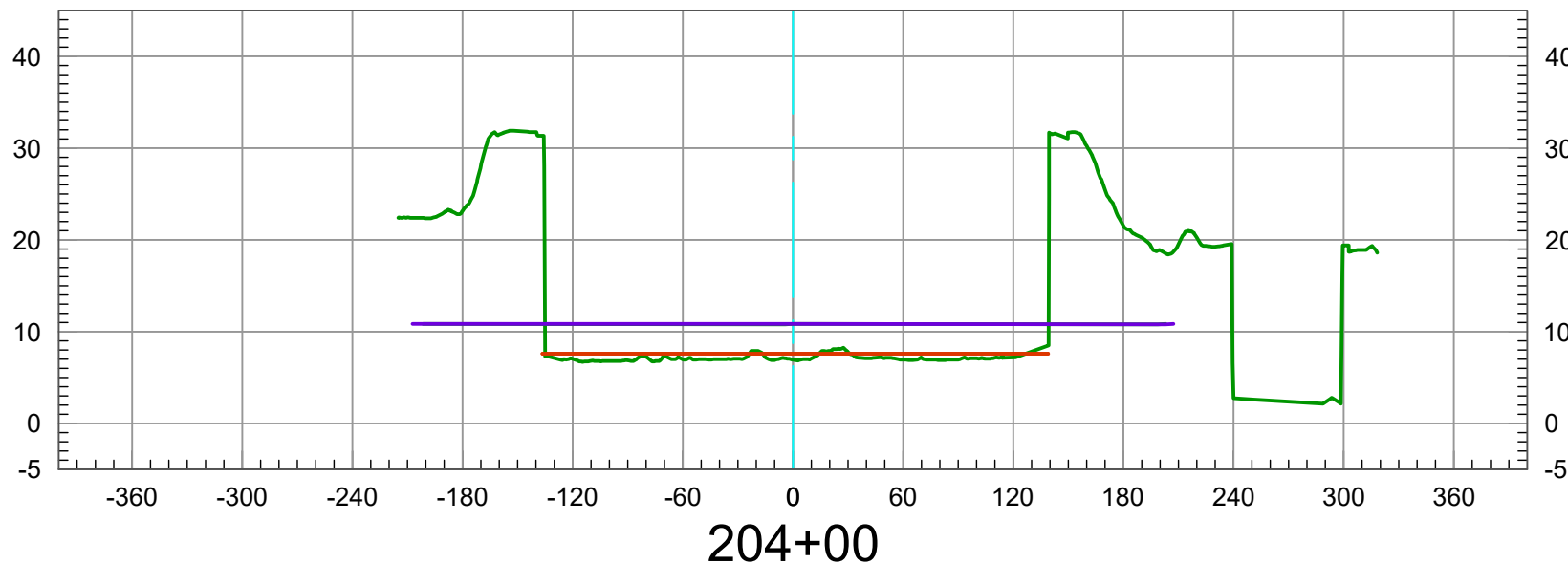
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



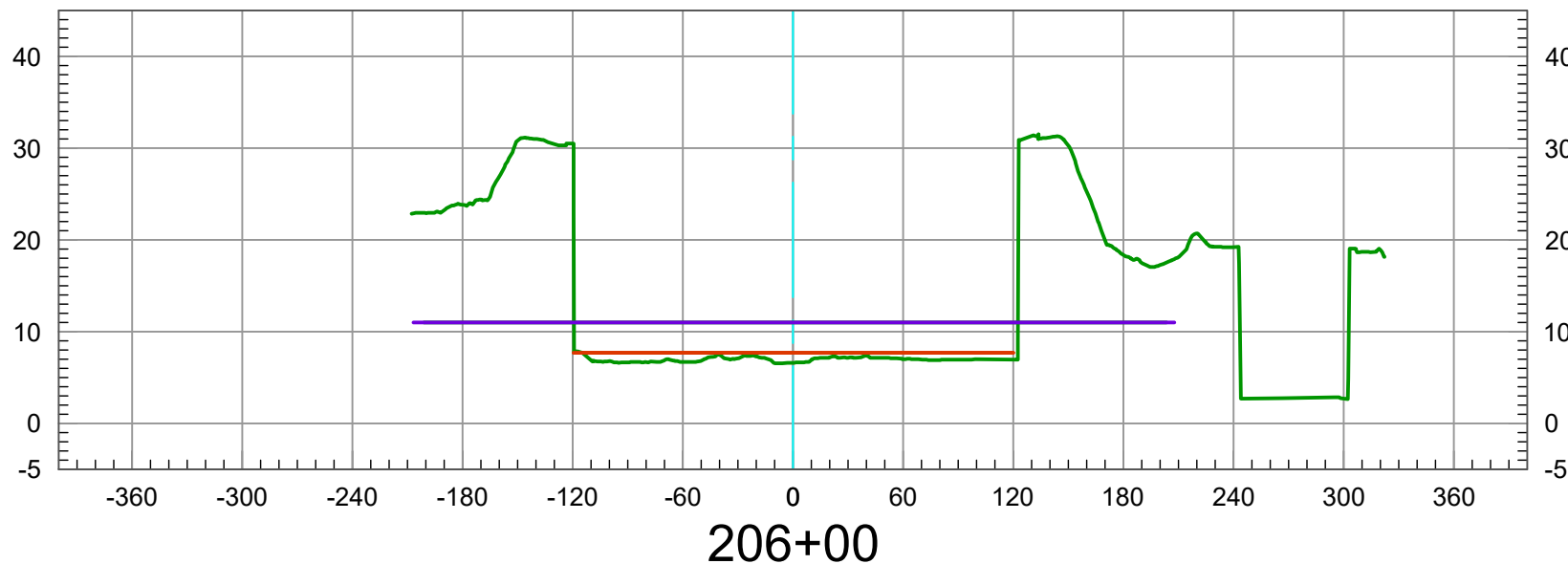
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



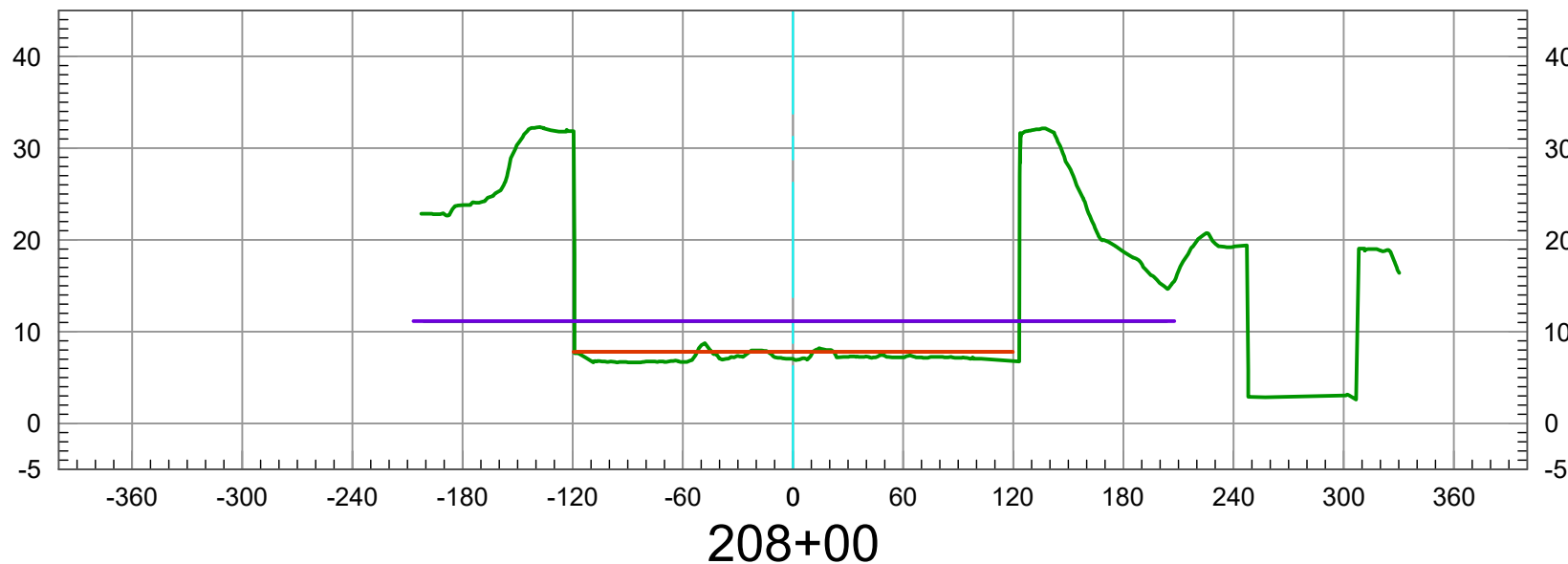
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



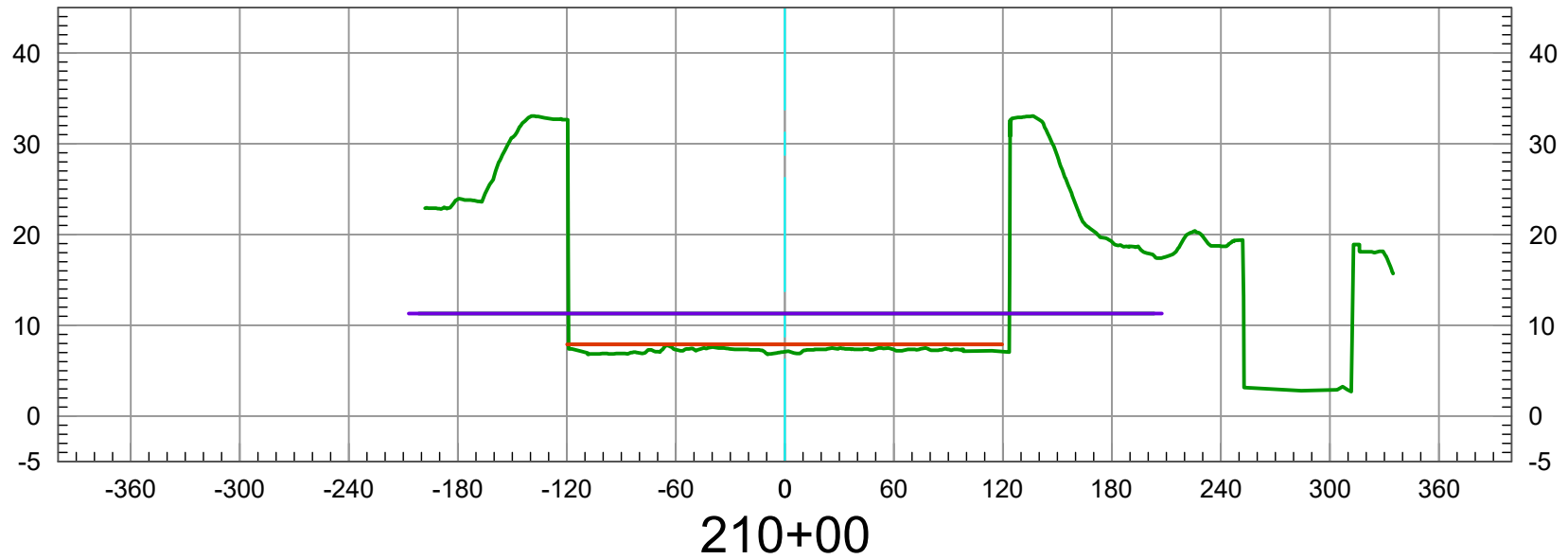
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
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DATE PREPARED: 05/28/2026



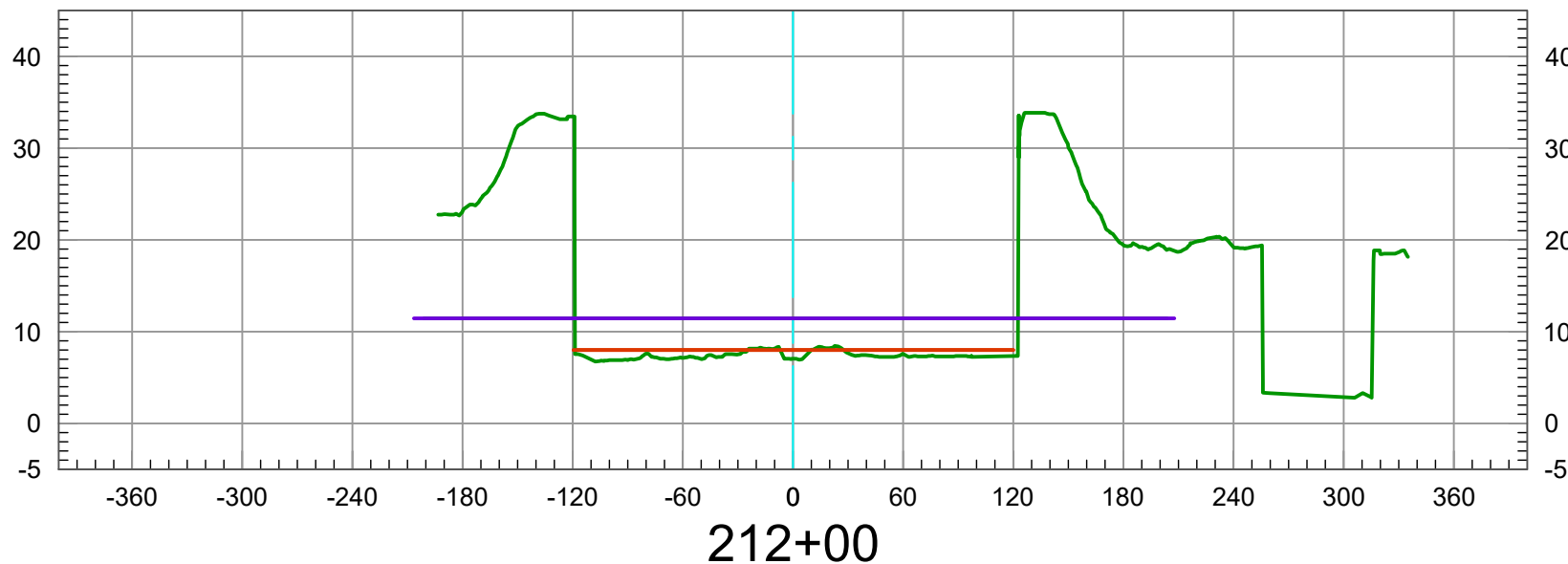
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



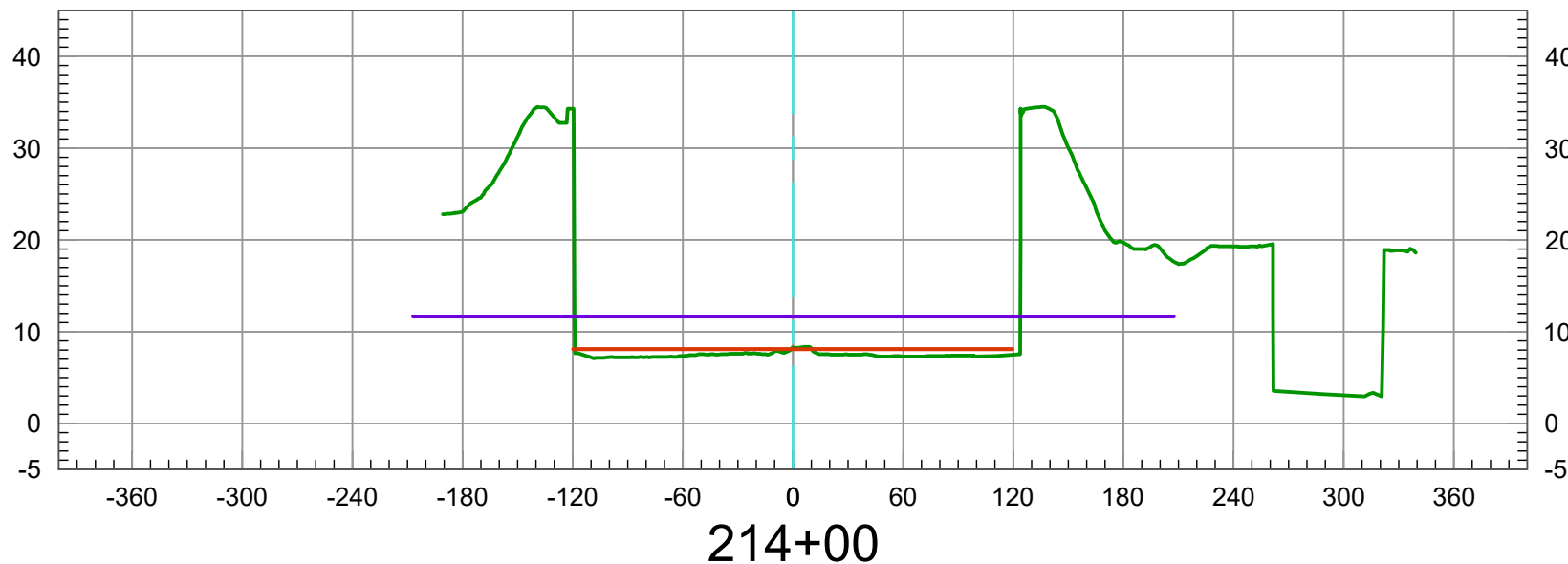
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

**U.S. Survey Foot**

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



# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



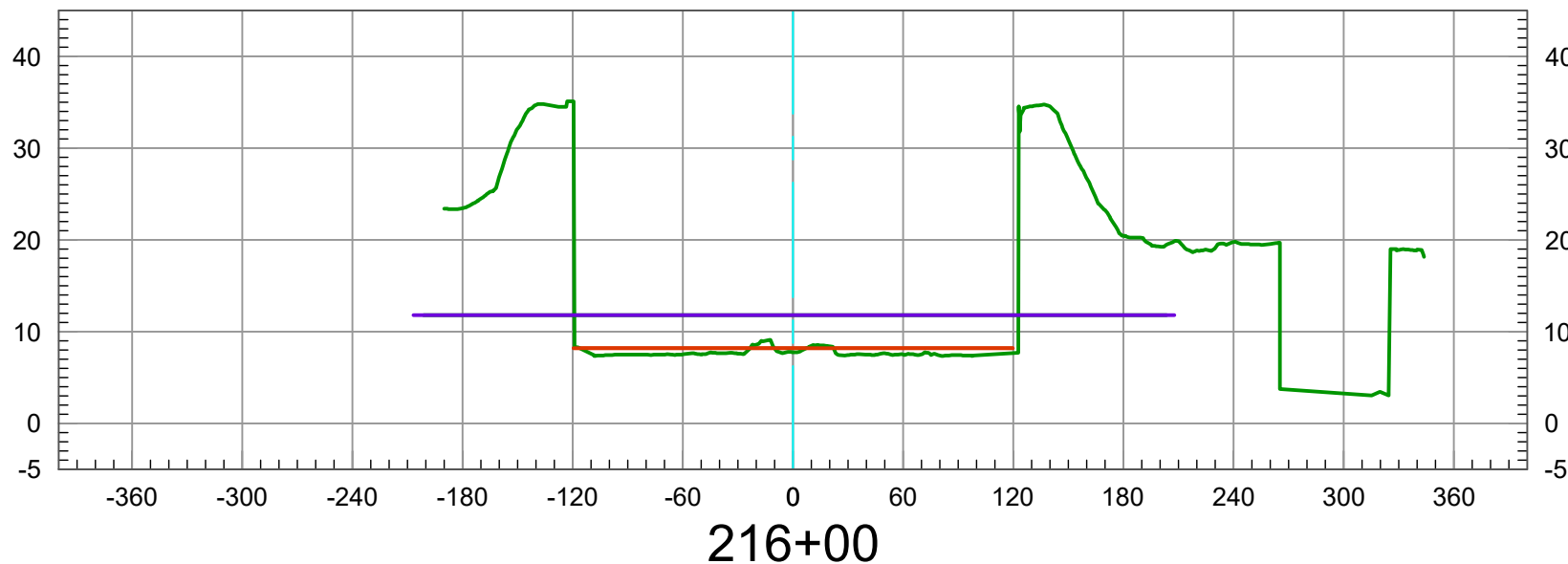
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

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OC Public Works  
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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



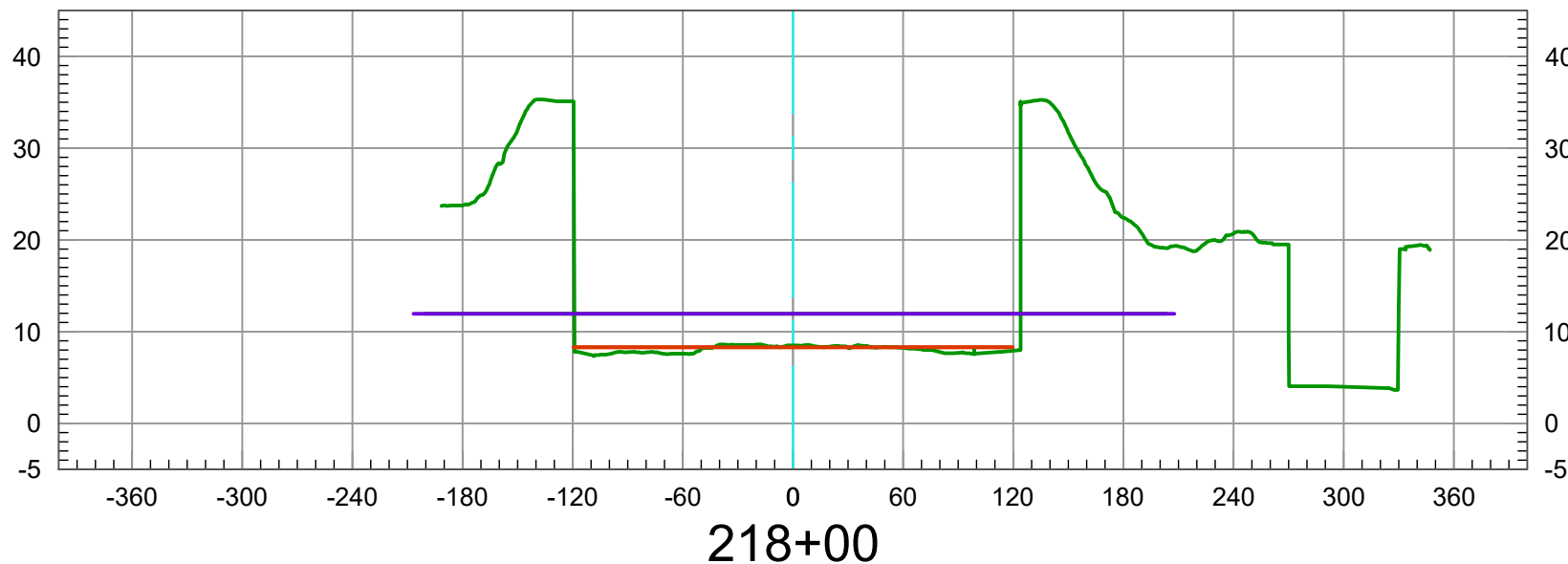
Vert. Scale: 1"=5'  
Hor. Scale: 1"=100'

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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
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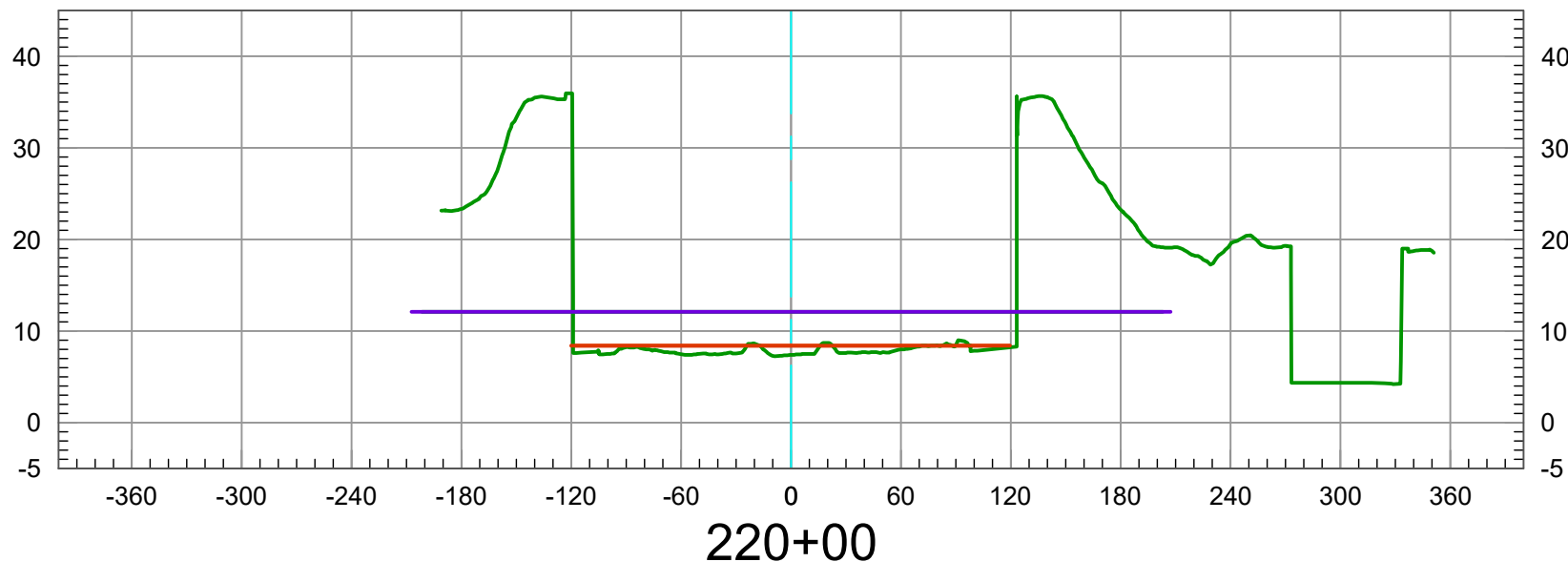
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
2007 PER FIGURE 4 USACE PROFILE DESIGN INVERT  
DATE PREPARED: 05/28/2026



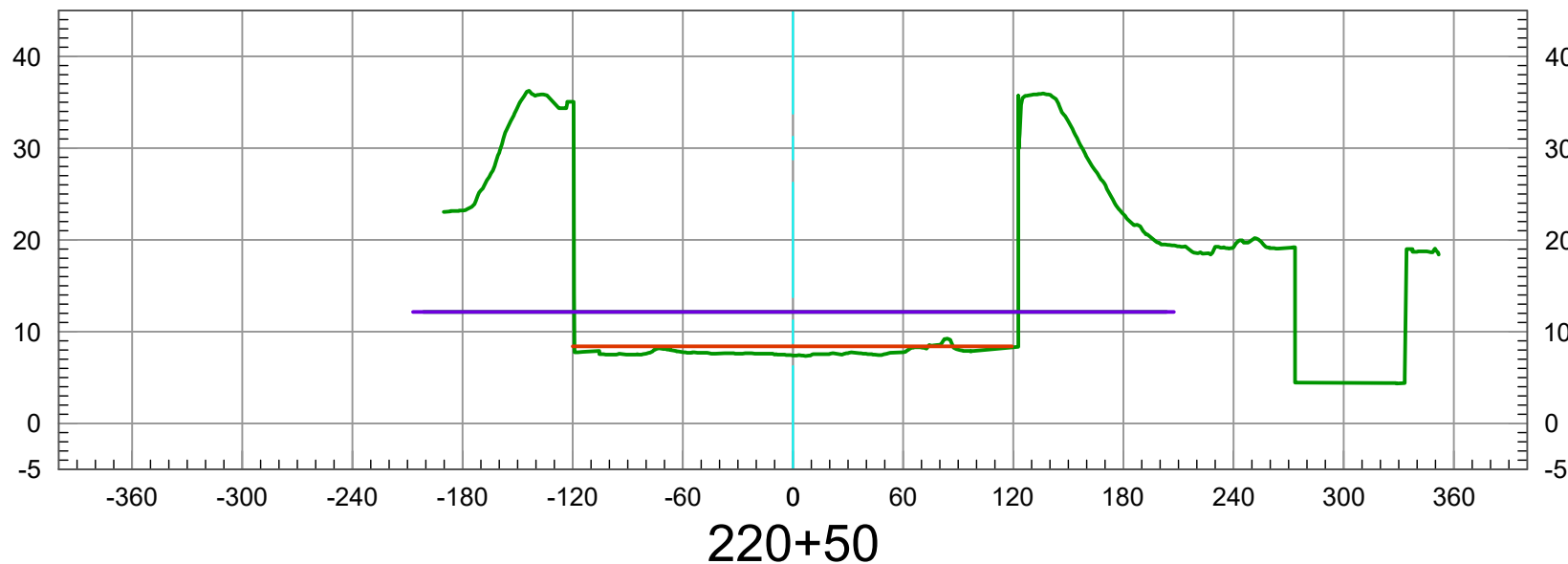
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) GRADE BREAK CL



2026 TOPO (NON BATHYMETRIC)  
ALLOWABLE SEDIMENT DEPOSITION  
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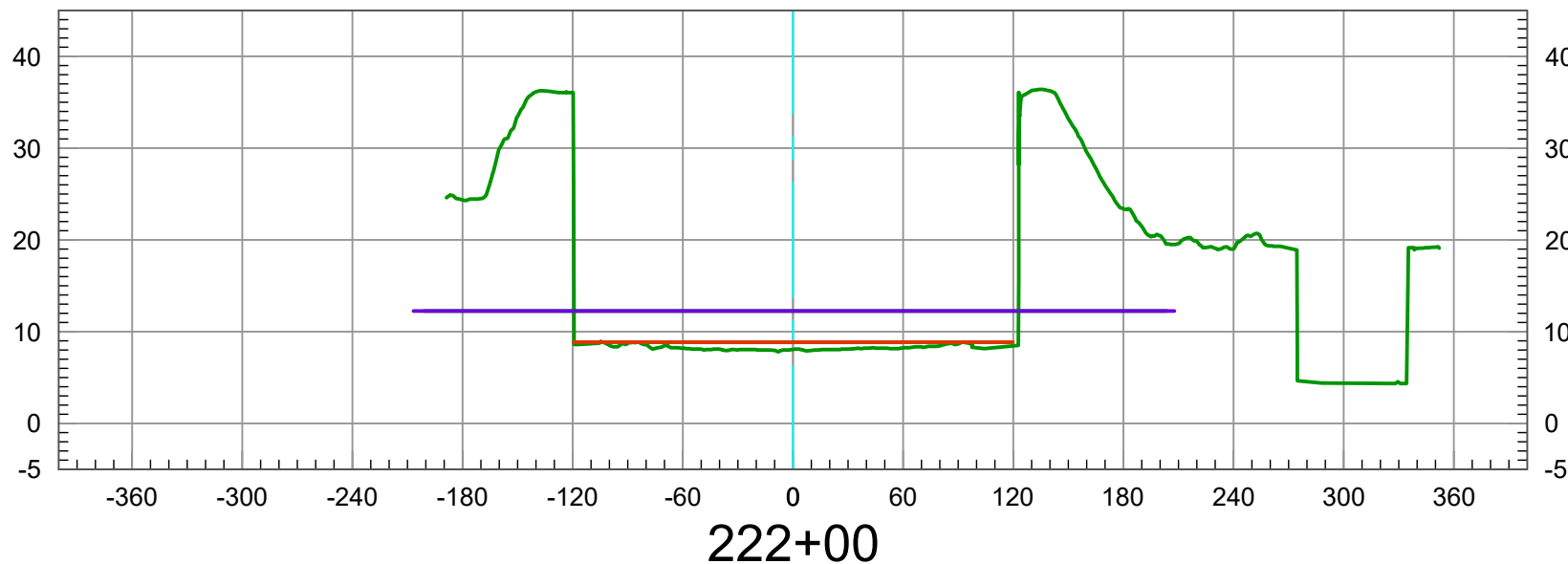
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**U.S. Survey Foot**

OC Public Works  
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# SANTA ANA RIVER (E01) CL



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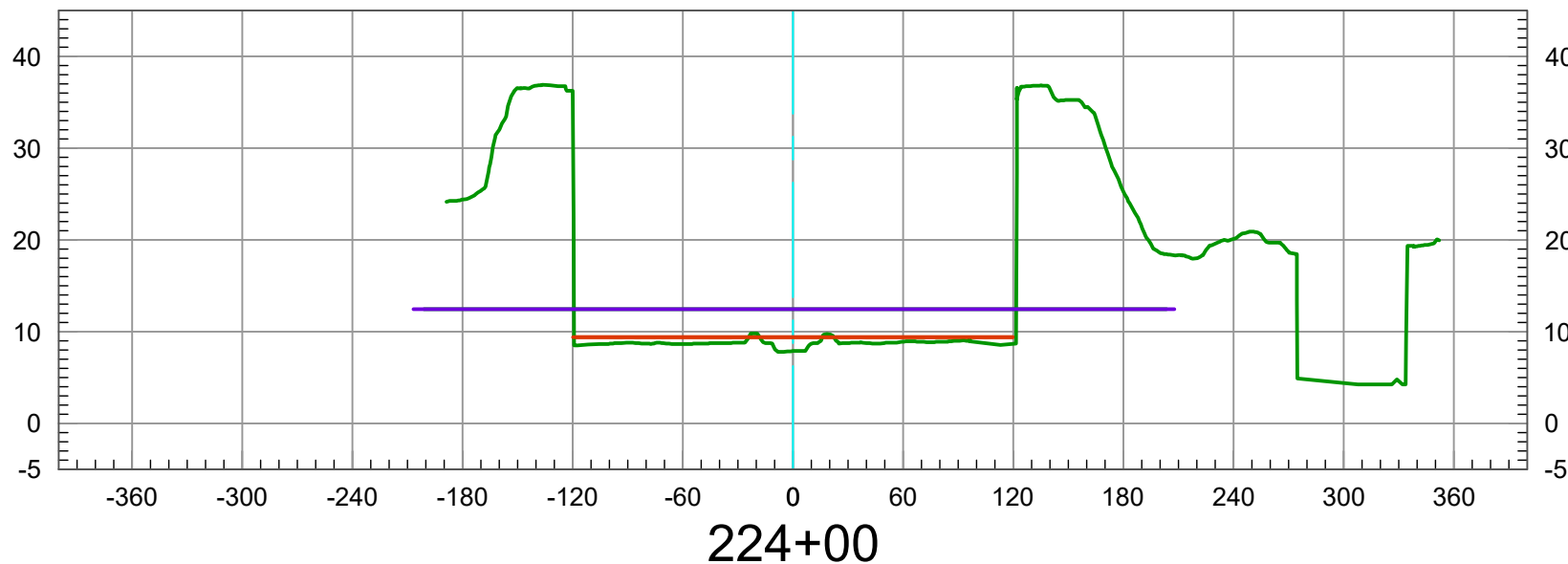
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Hor. Scale: 1"=100'

**U.S. Survey Foot**

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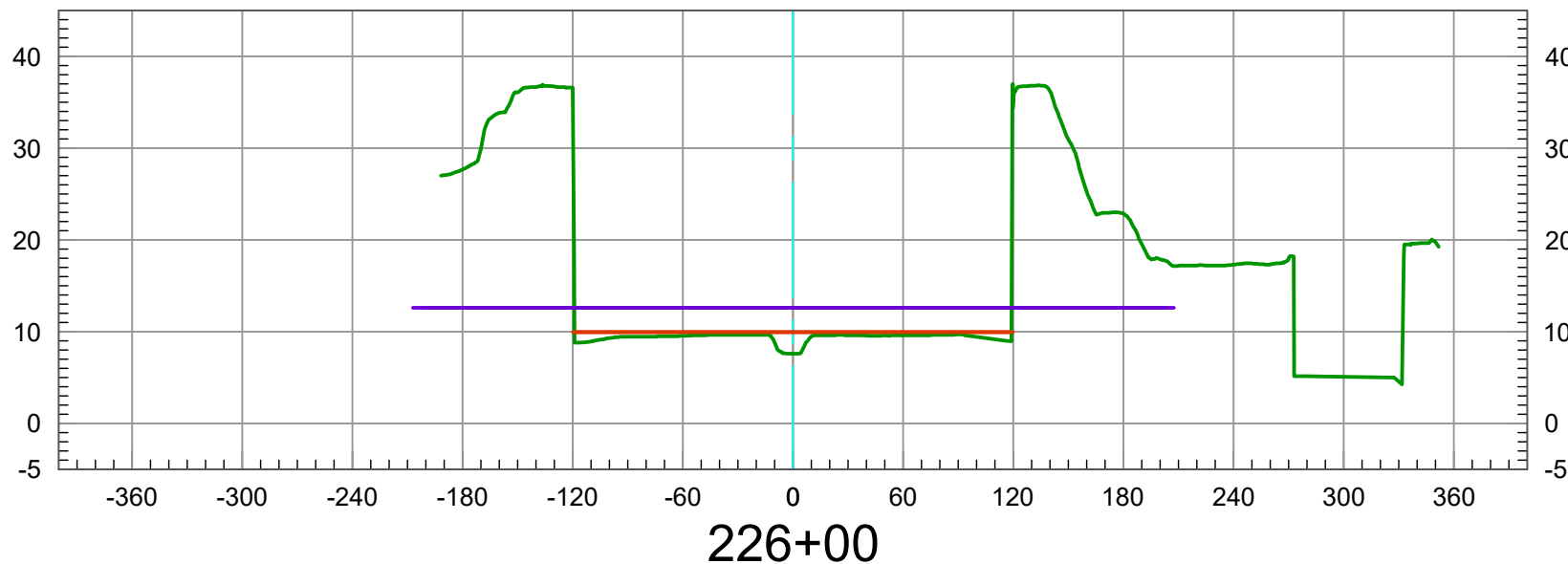
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**U.S. Survey Foot**

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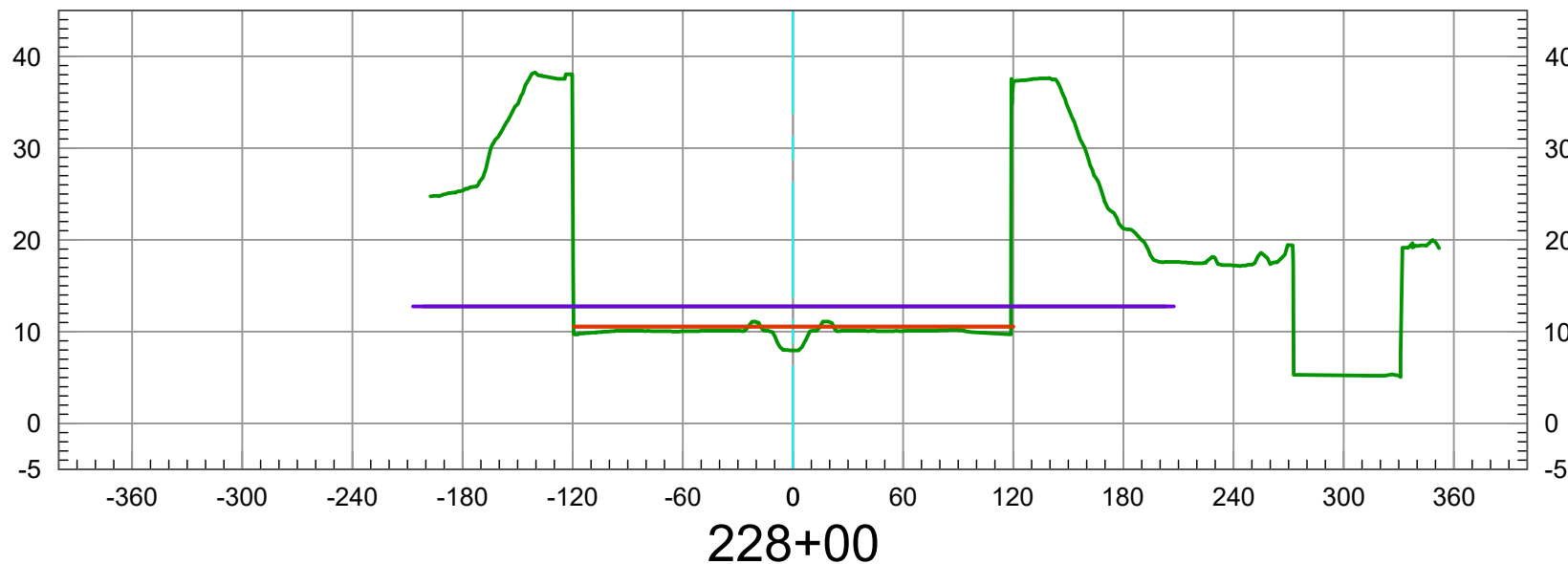
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Hor. Scale: 1"=100'

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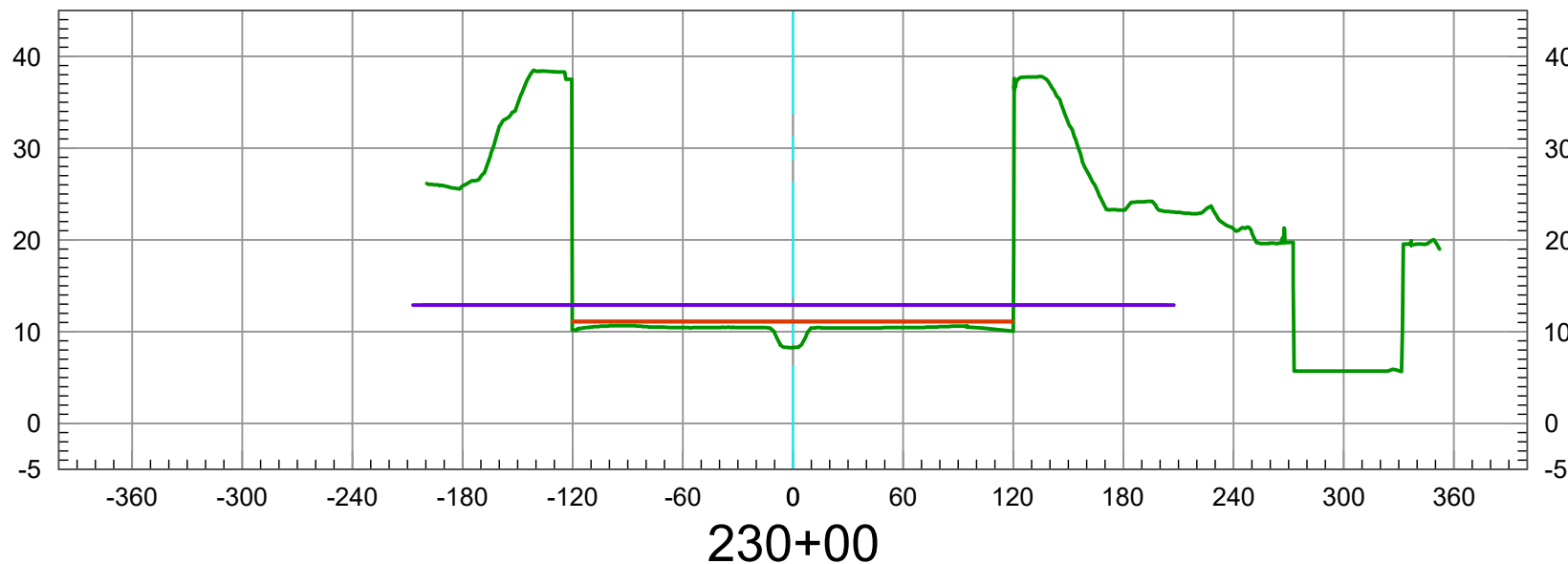
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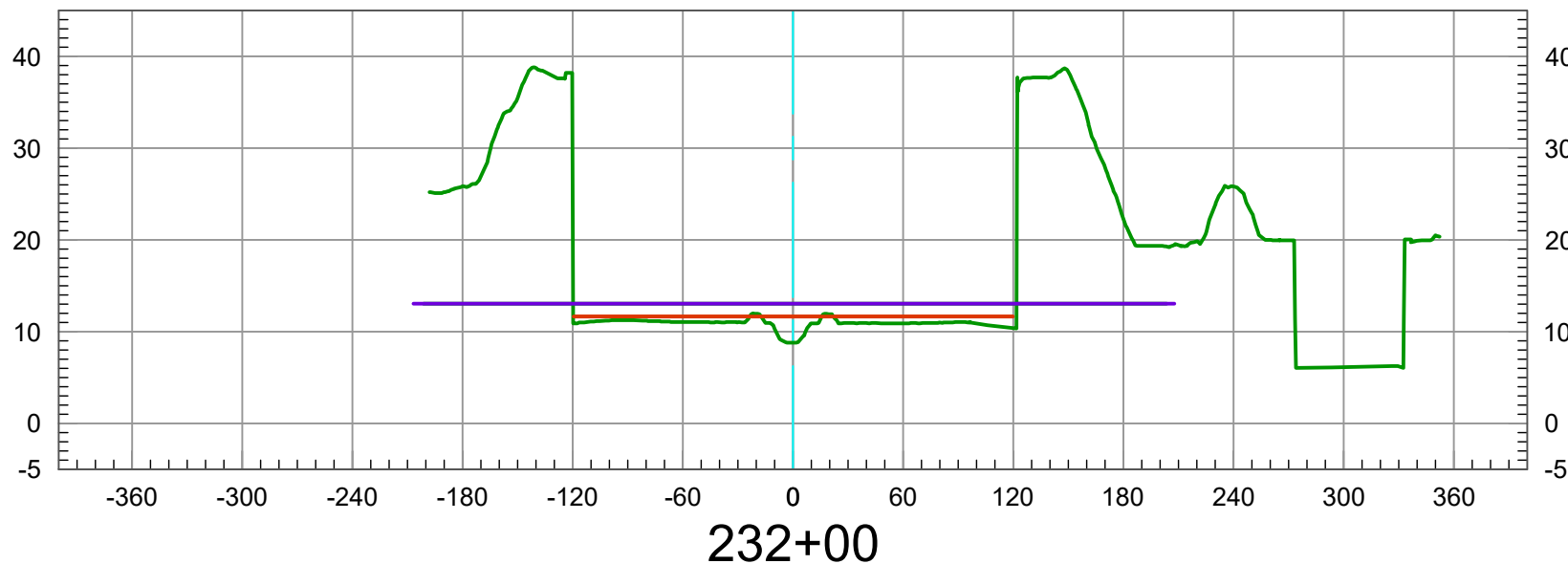
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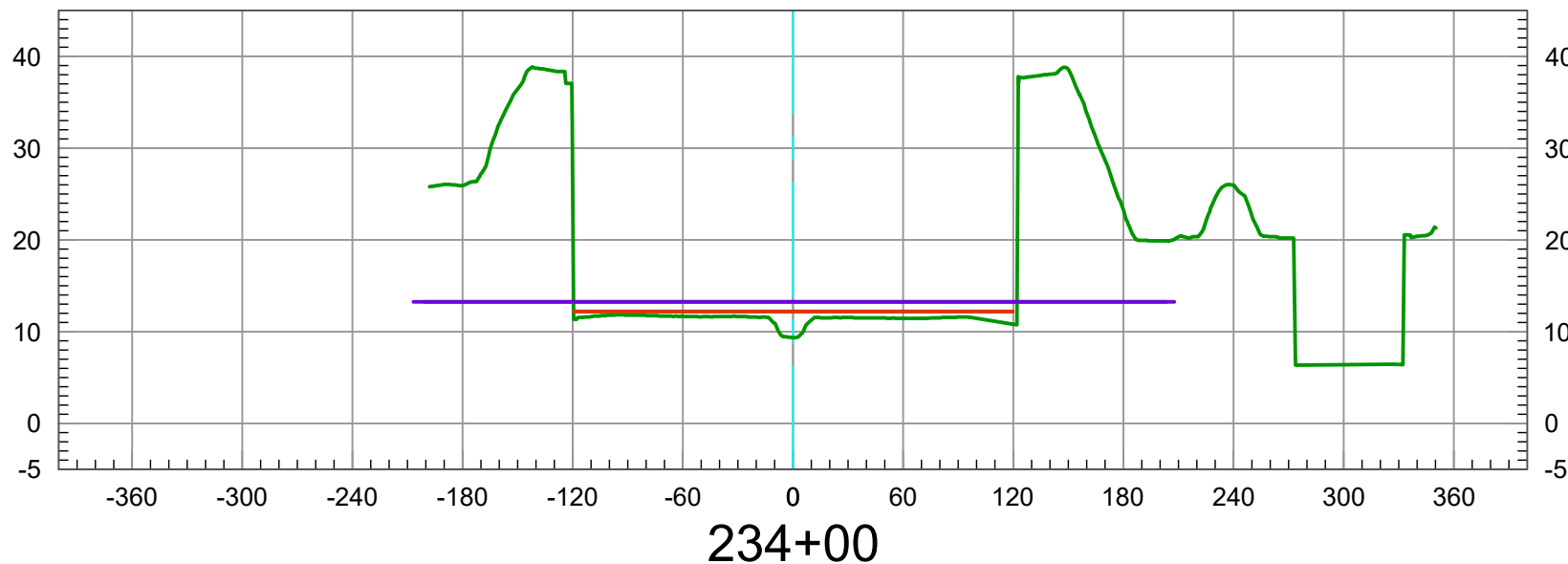
Vert. Scale: 1"=5'  
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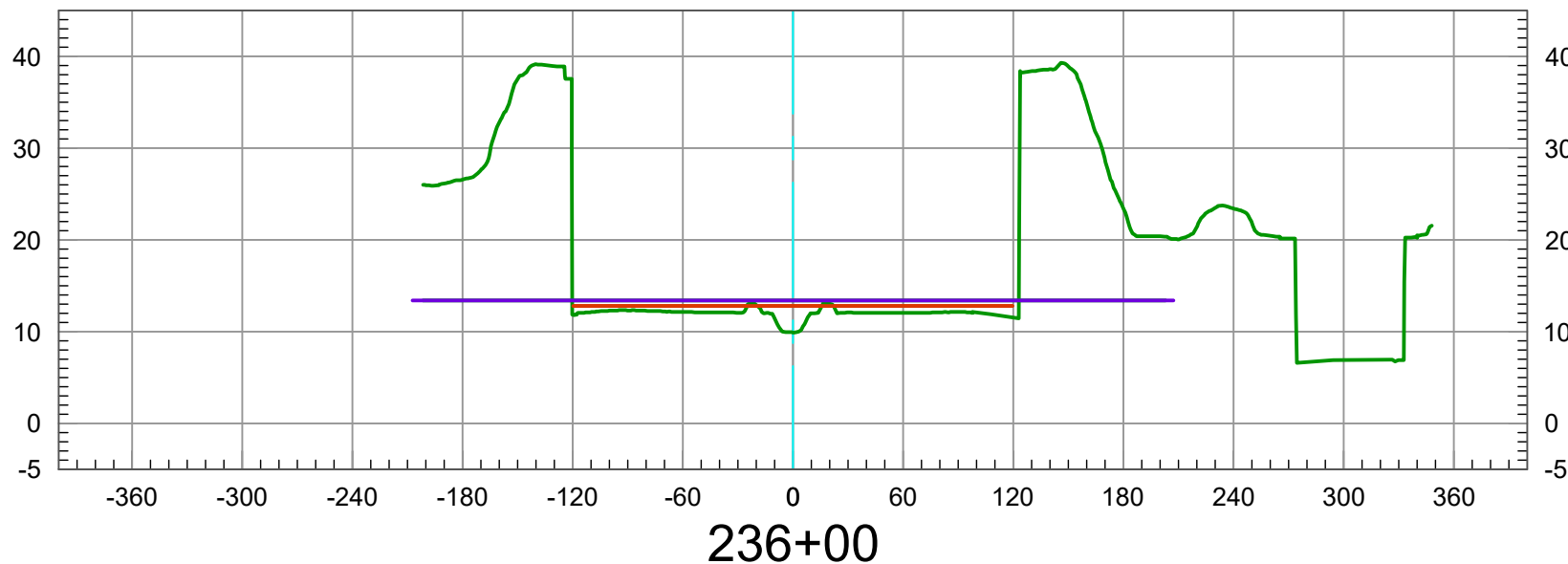
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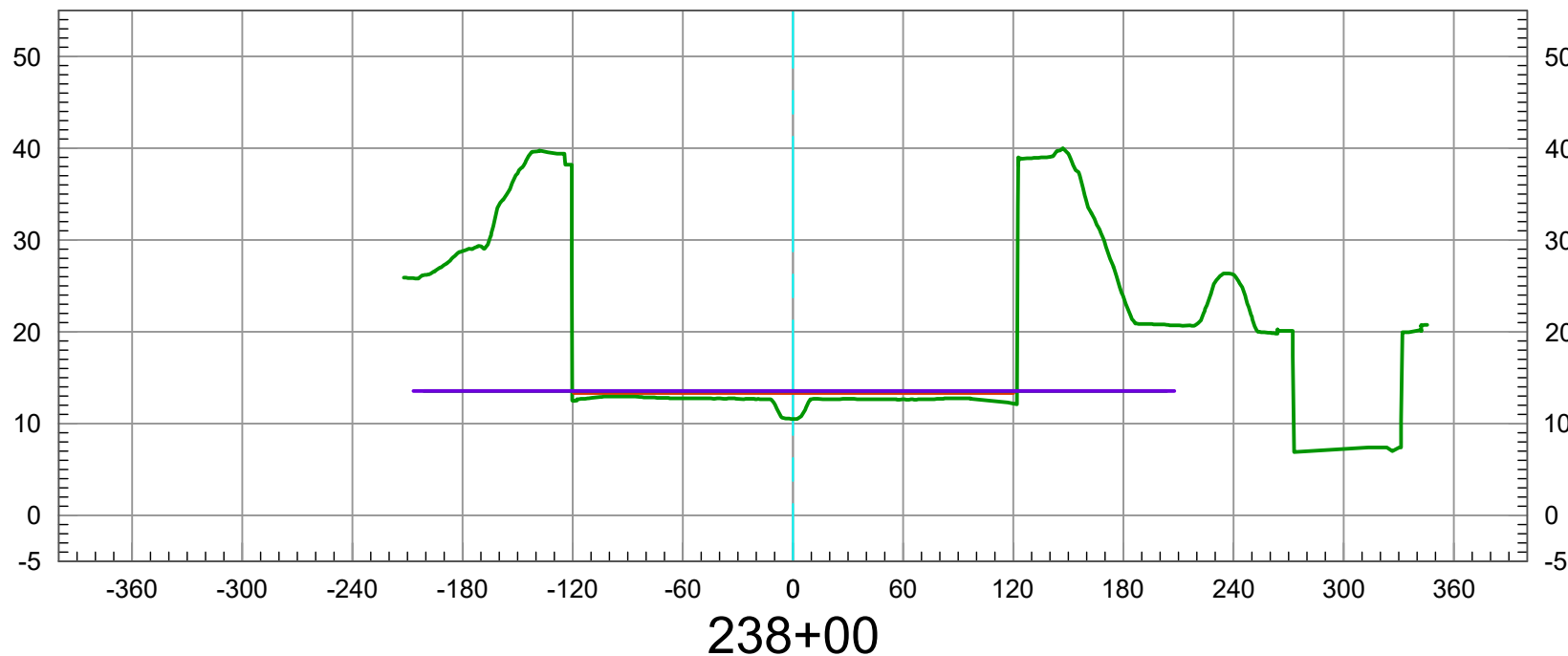
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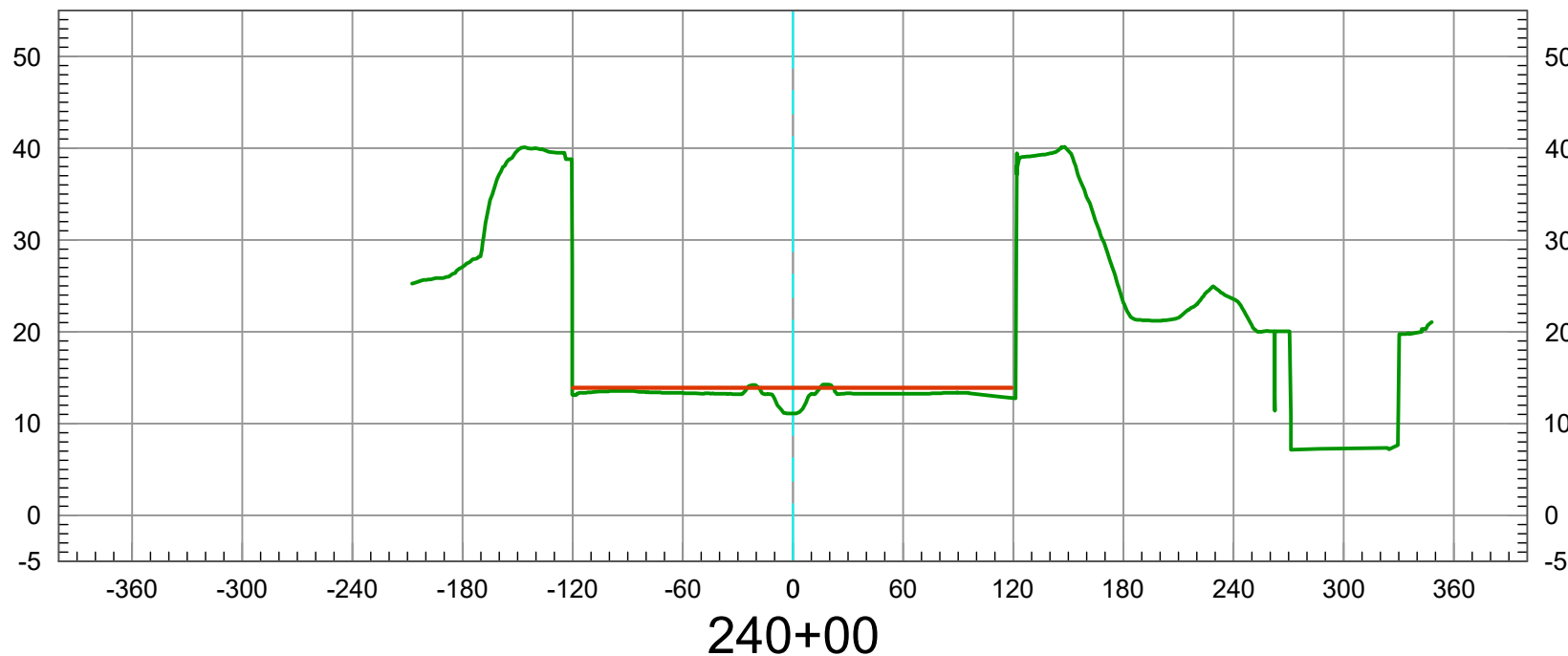
Vert. Scale: 1"=5'  
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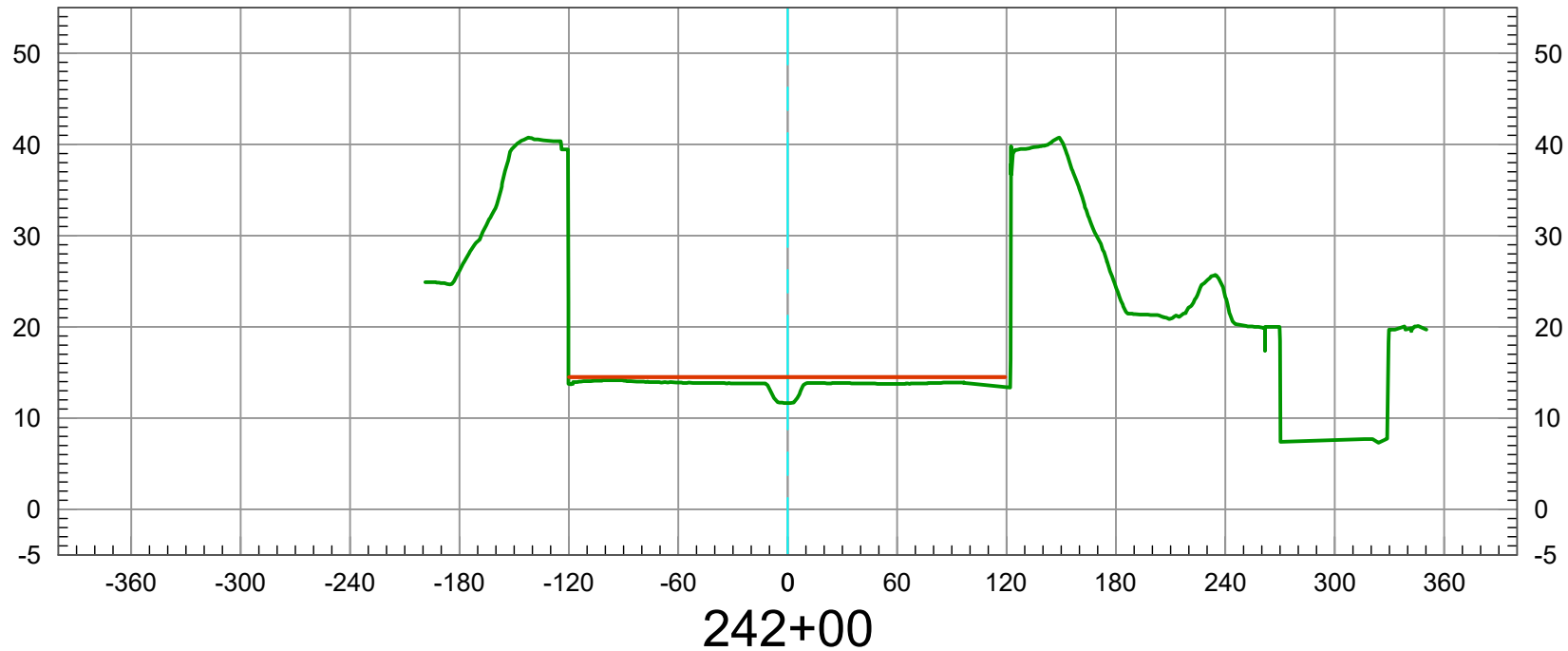
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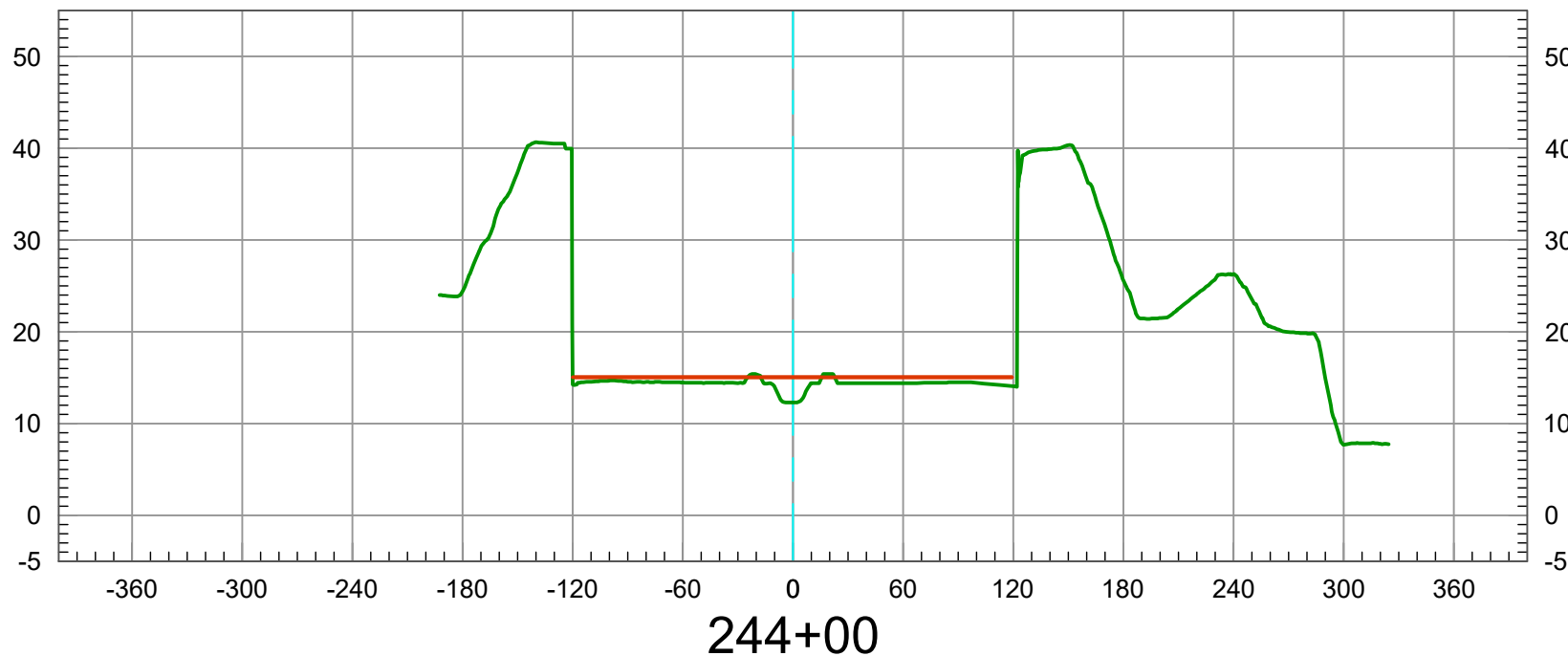
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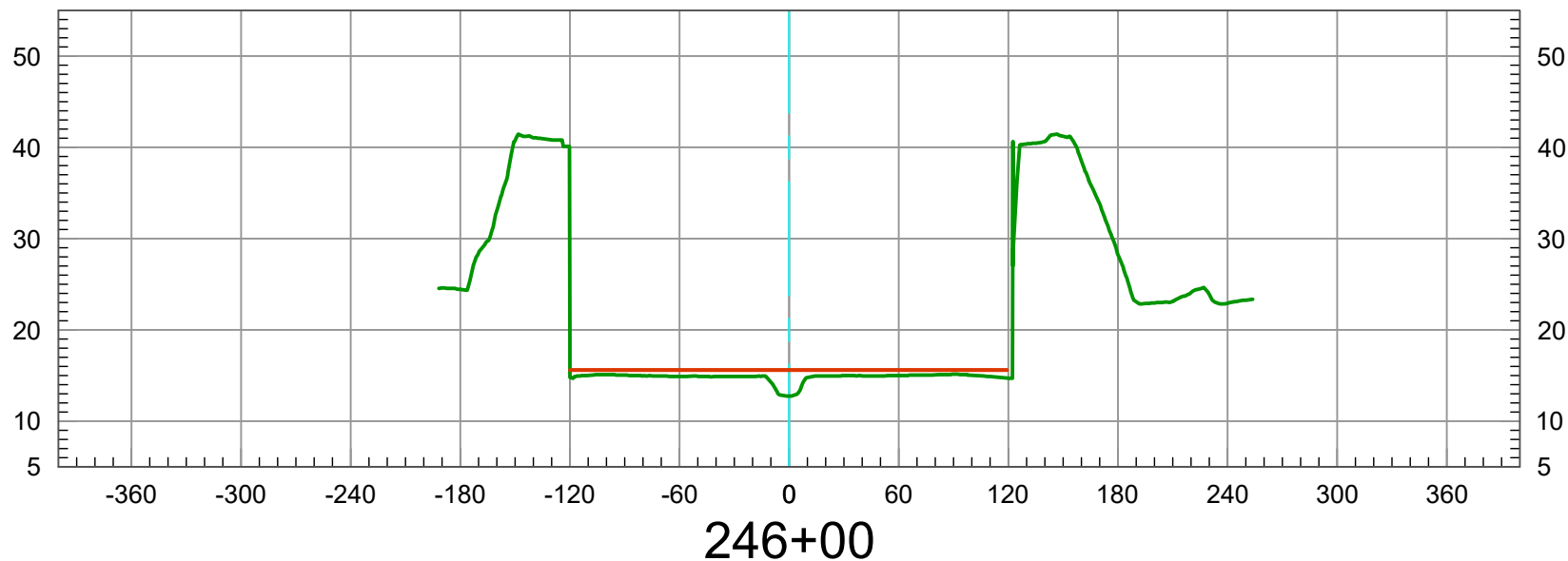
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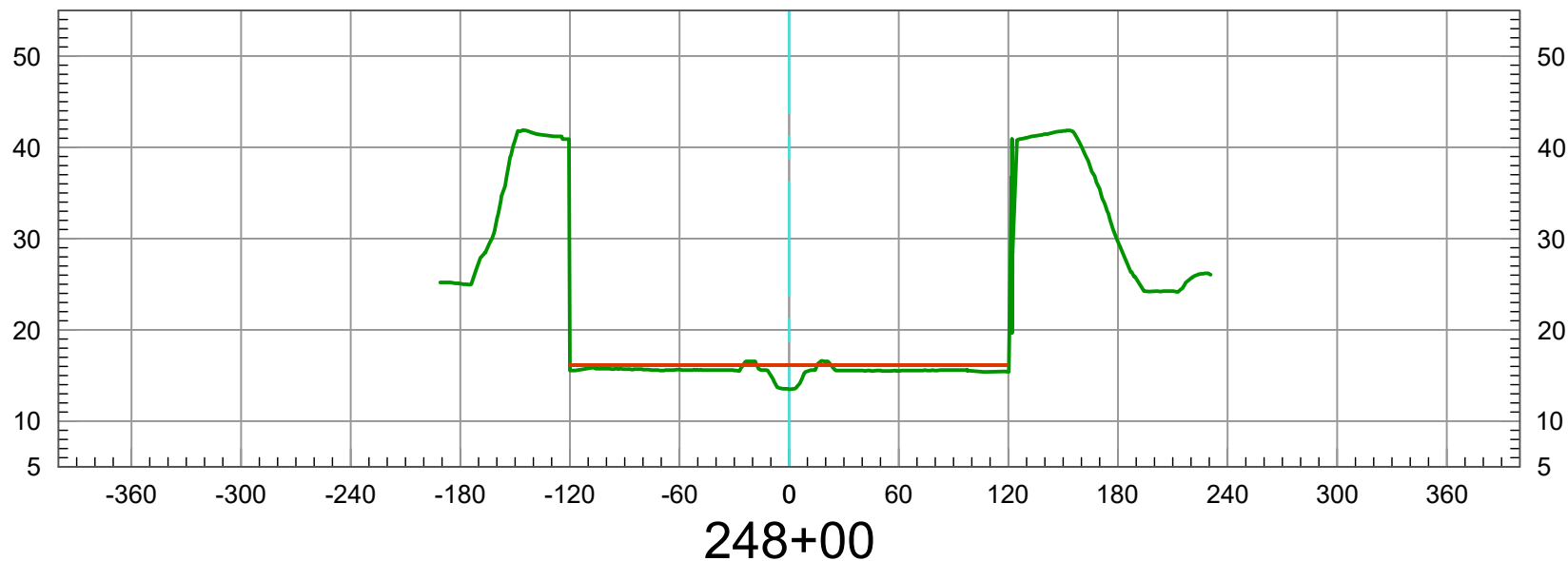
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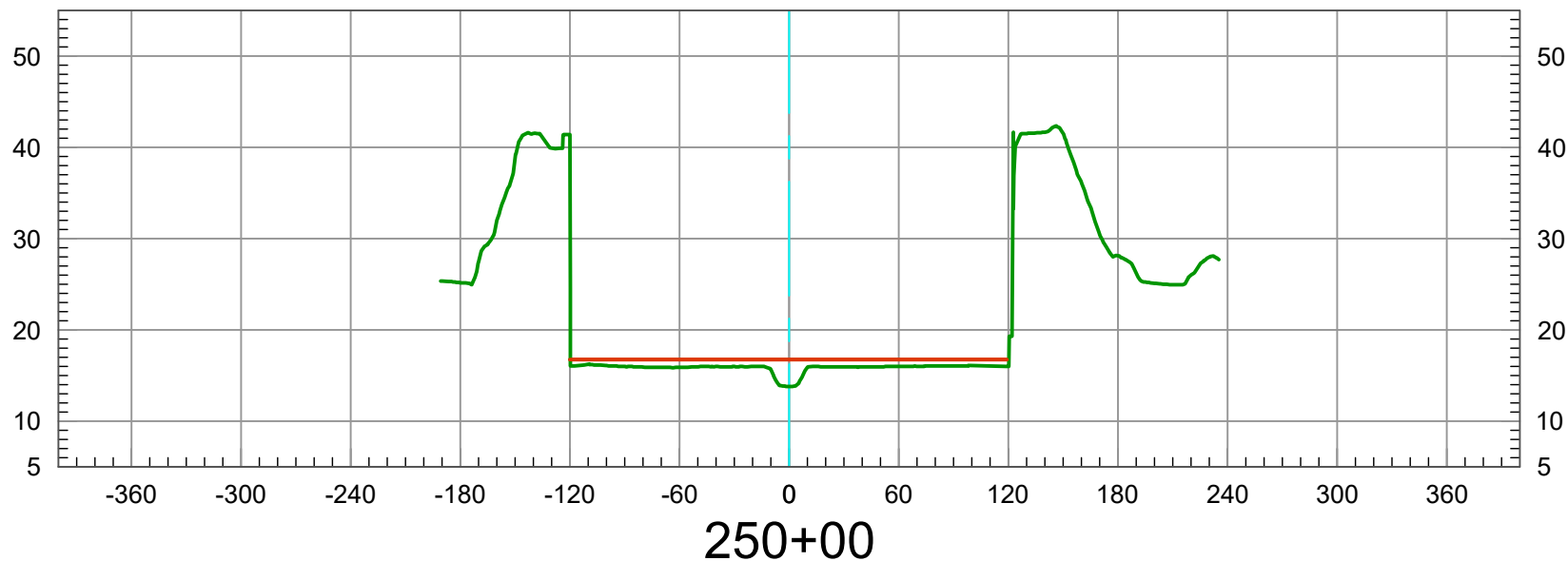
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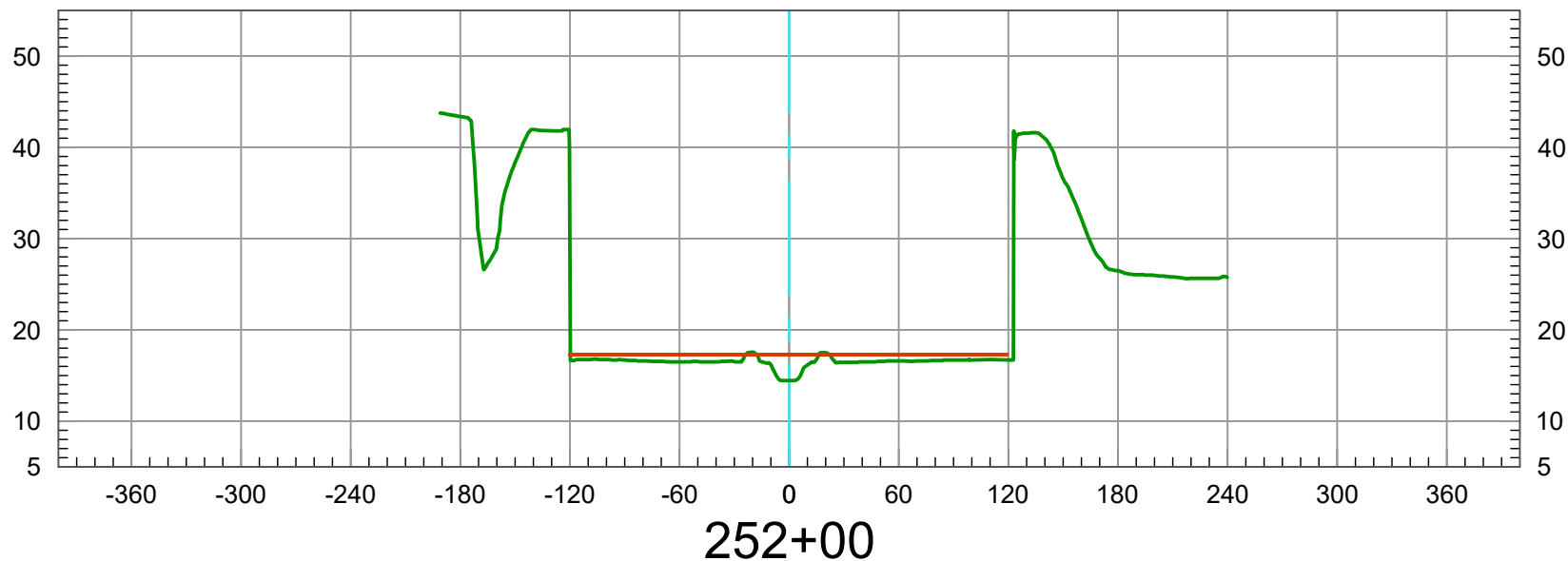
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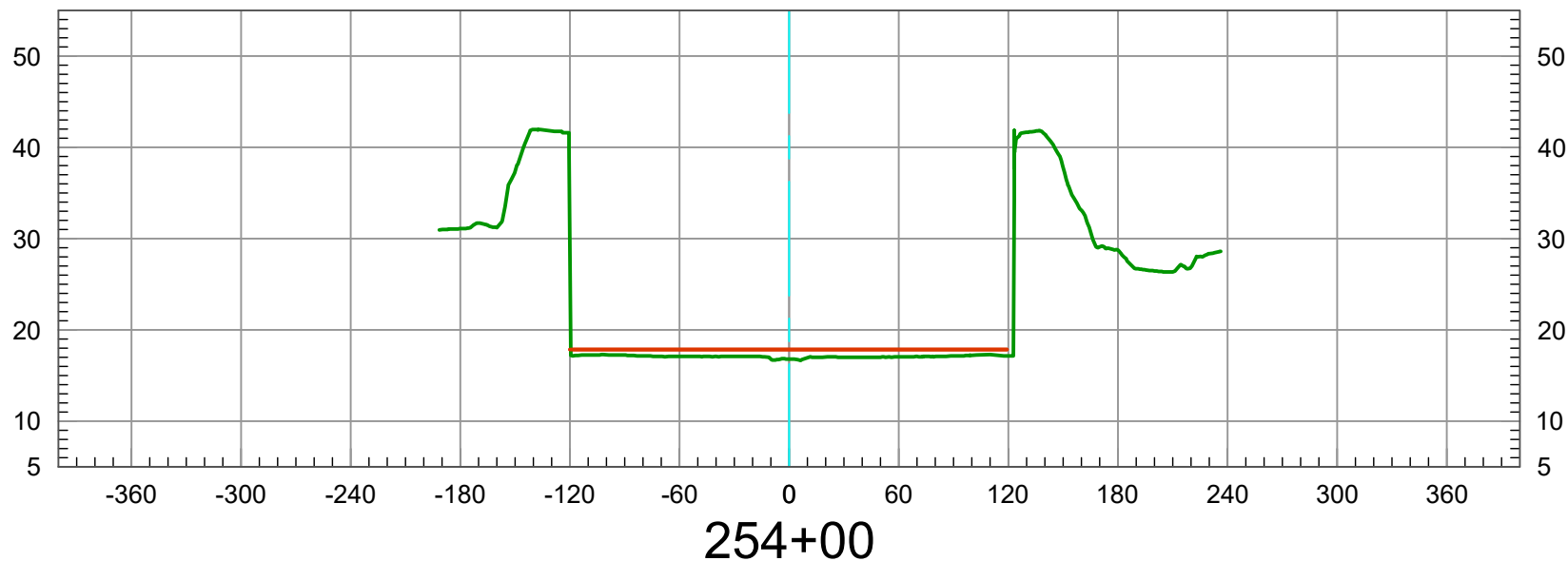
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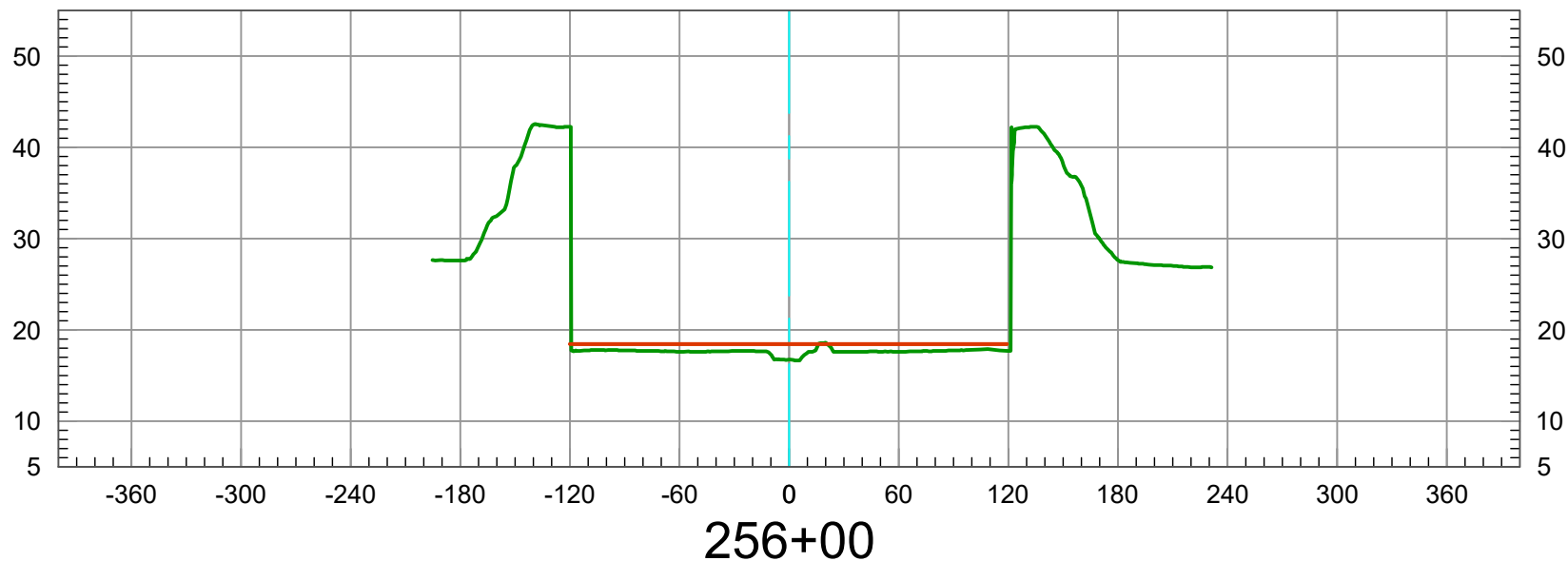
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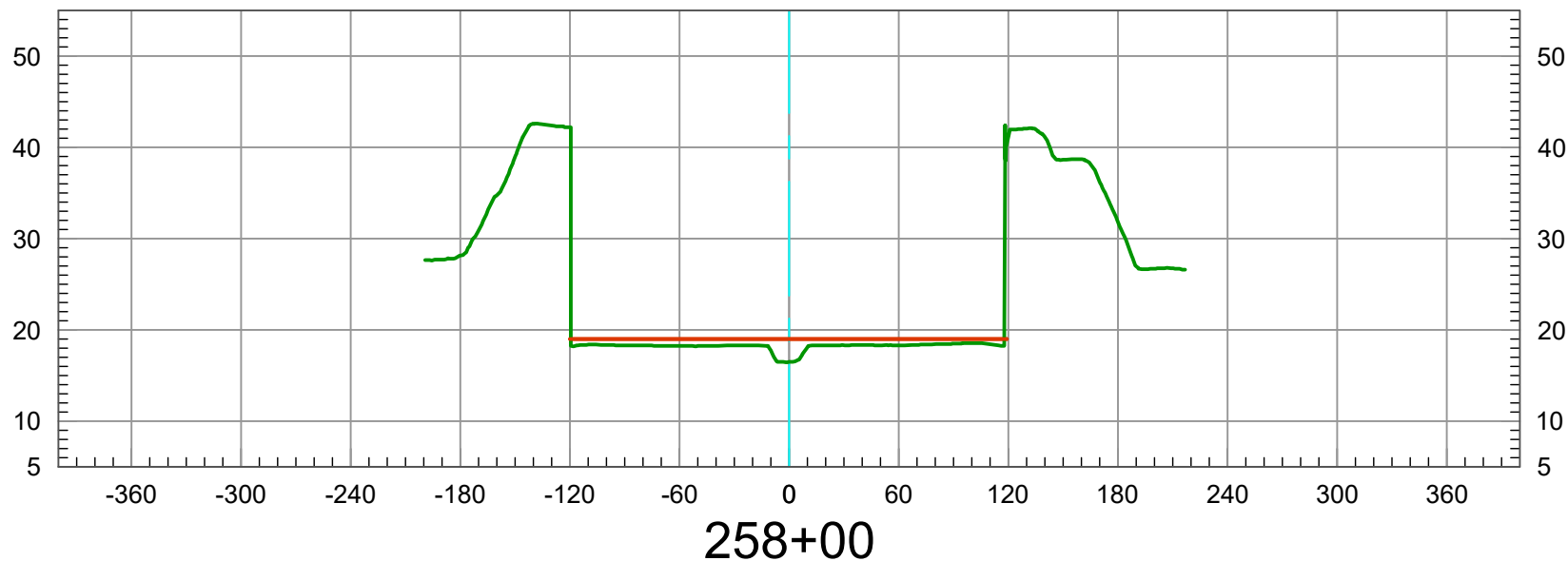
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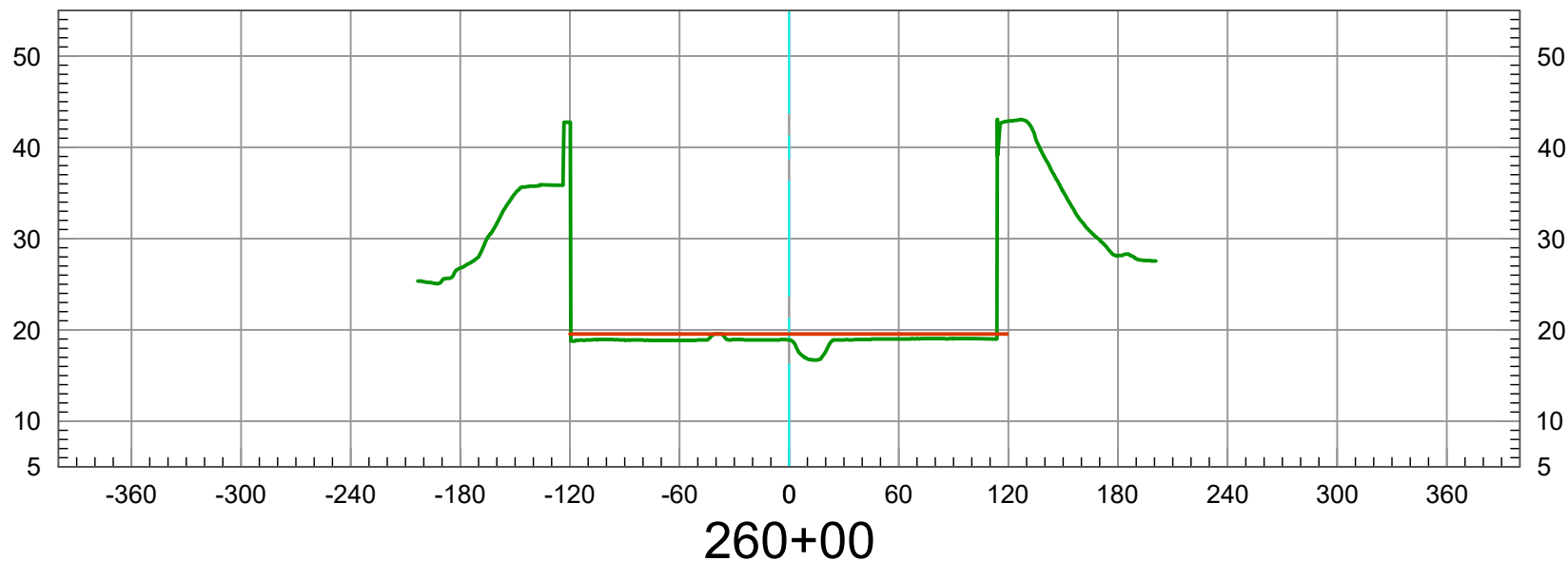
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