

FAIRHOPE BEACH MANAGEMENT PLAN

BEACH PROFILE DATA REPORT

SEPTEMBER 2, 2016

Funding for this project provided by the Alabama Department of Conservation and Natural Resources, State Lands Division, Coastal Section, in part by a grant from the National Oceanic and Atmospheric Administration, Office of Ocean and Coastal Resource Management, Award #15NOS4190159.



SOUTH COAST ENGINEERS PO BOX 72
FAIRHOPE, AL 36533

This data report contains the beach profile data collected in 2016 during the development of the Beach Management Plan for the City of Fairhope (separate report). These profile data were surveyed by South Coast Engineers staff on the dates shown. The profile lines were established for the purposes of developing the beach management plan and to document beach conditions for future comparisons. The profile location information (latitude, longitude, and elevations) are all approximate. The elevation data were obtained by transferring water levels from the NOAA PORTS real-time gages located elsewhere in Mobile Bay and are thus can likely be considered accurate to +/- 0.5 ft. The latitude and longitude were measured with a non-differential GPS and thus can likely be considered accurate to +/- 40 ft. It is recommended in the companion beach management report that the City obtain higher precision surveys of these profile locations with particular emphasis on the benchmark or 0+00 location from which the profiles were measured.

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Table 1: Names, locations, and descriptions of profile line benchmarks for Fairhope beach profile surveys (2016) at North Beach Park and Magnolia Beach Park.

PROFILE NAME	APPROXIMATE PROFILE BENCHMARK LATITUDE¹	APPROXIMATE PROFILE BENCHMARK LONGITUDE¹	APPROXIMATE PROFILE BENCHMARK ELEVATION (FT MLLW)²	PROFILE BENCHMARK DESCRIPTION
NO-03	30.5302	-87.9083	5.21	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE N OF POND
NO-04	30.5299	-87.9085	5.21	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE N OF WHITE BRIDGE
NO-05	30.5295	-87.9086	4.50	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE S OF WHITE BRIDGE
NO-06	30.5291	-87.9088	5.34	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE S OF DRAINAGE PIPE
NO-07	30.5288	-87.9090	5.59	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE AT SOUTH END OF POND
NO-08	30.5284	-87.9089	9.49	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE N OF TURNAROUND
NO-09	30.5280	-87.9092	10.69	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE S OF TURNAROUND
NO-10	30.5276	-87.9093	12.43	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE NORTH OF BATHHOUSE
NO-11	30.5272	-87.9095	11.65	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE SOUTH OF BATHHOUSE
NO-12	30.5269	-87.9097	9.99	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE S OF TURNAROUND

1: Latitude and longitude were measured with a non-differential GPS and thus can likely be considered accurate to +/- 40 ft.

2: Elevations were estimated by transferring water levels from NOAA PORTS gages throughout the Mobile Bay and are thus likely considered accurate to +/- 0.5 ft.

NO-13	30.5265	-87.9100	7.68	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE
NO-14	30.5261	-87.9101	7.69	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE NORTH OF DRAINAGE PIPE
NO-15	30.5257	-87.9104	8.28	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE, IN LINE W/ SW FACE OF PAVILION
NO-16	30.5252	-87.9111	5.73	MAGNAIL (SILVER) IN CENTER OF W TRAVEL LANE
NO-17	30.5249	-87.9116	5.56	CENTER OF TIMBER PILE ON TIMBER BULKHEAD 5 FT N OF CHAINLINK FENCE AT S END OF PARK, NINTH PILE FROM S
MA-01	30.5174	-87.9155	6.30	IN GRASS 6 FT SW OF PIER ST PUMPHOUSE, IN LINE W/ SIDEWALK
MA-02	30.5173	-87.9156	12.50	IN GRASS 50 FT SW OF PUMPHOUSE, IN LINE W/ SIDEWALK
MA-03	30.5172	-87.9157	12.60	AT CHISELED "+" 100 FT ALONG SIDEWALK SW OF BATHHOUSE
MA-04	30.5171	-87.9158	13.00	AT CHISELED "+" 150 FT ALONG SIDEWALK SW OF BATHHOUSE
MA-05	30.5169	-87.9159	13.31	AT CHISELED "+" 205 FT ALONG SIDEWALK SW OF BATHHOUSE
MA-06	30.5168	-87.9160	13.67	AT CHISELED "+" 250 FT ALONG SIDEWALK SW OF BATHHOUSE, AT PECAN AVE PIER
MA-07	30.5167	-87.9161	13.91	AT CHISELED "+" 300 FT ALONG SIDEWALK SW OF BATHHOUSE
MA-08	30.5166	-87.9162	14.17	AT CHISELED "+" 350 FT ALONG SIDEWALK SW OF BATHHOUSE, 15 FT W OF TIMBER BENCH (H. HARRELL)
MA-09	30.5164	-87.9164	14.91	AT CHISELED "+" 450 FT ALONG SIDEWALK SW OF BATHHOUSE, 20 FT W OF TIMBER BENCH (FHS 1982)

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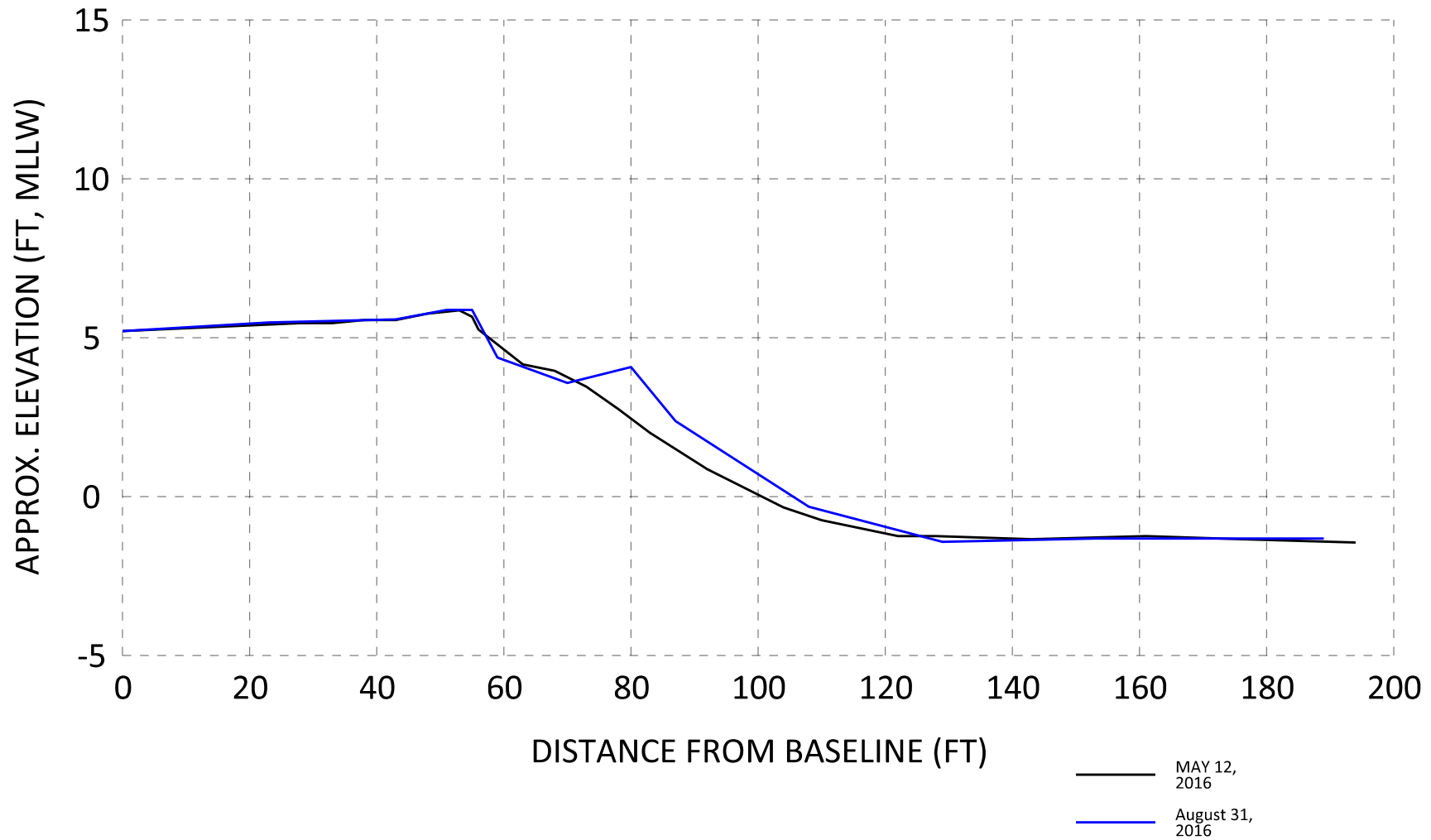
2: Elevations were estimated by transferring water levels from NOAA PORTS gages throughout the Mobile Bay and are thus likely considered accurate to +/- 0.5 ft.

MA-10	30.5162	-87.9166	14.82	AT CHISELED "+" 550 FT ALONG SIDEWALK SW OF BATHHOUSE, 15 FT WSW OF TIMBER BENCH (A.C. FLAGG)
MA-11	30.5160	-87.9168	14.72	AT CHISELED "+" 650 FT ALONG SIDEWALK SW OF BATHHOUSE, 24 FT N OF TIMBER BENCH (M.L. BROWN)
MA-12	30.5157	-87.9171	15.31	AT CHISELED "+" 800 FT ALONG SIDEWALK SW OF BATHHOUSE, 27 FT NE OF ORANGE ST PIER
MA-13	30.5153	-87.9173	15.96	AT CHISELED "+" 950 FT ALONG SIDEWALK SW OF BATHHOUSE, 18 FT NW OF "DOLPHIN FAMILY" STATUE
MA-14	30.5150	-87.9177	17.48	AT CHISELED "+" 1100 FT ALONG SIDEWALK SW OF BATHHOUSE, 5 FT W OF TIMBER BENCH (M.N. CORCORAN)
MA-15	30.5147	-87.9180	17.67	AT CHISELED "+" 1250 FT ALONG SIDEWALK SW OF BATHHOUSE, AT FIG AVE
MA-16	30.5143	-87.9182	17.61	AT CHISELED "+" 1400 FT ALONG SIDEWALK SW OF BATHHOUSE, 45 FT NE OF "A BUTTERFLY SANCTUARY"
MA-17	30.5140	-87.9185	18.70	AT CHISELED "+" 1550 FT ALONG SIDEWALK SW OF BATHHOUSE, 45 FT W OF SW CORNER OF GRAVEL PARKING LOT ACROSS FROM ELKS
MA-18	30.5135	-87.9187	20.08	MAGNAIL (SILVER) AT CORNER OF PAVEMENT AND SIDEWALK AT AMERICAN LEGION STEPS
MA-19	30.5136	-87.9194	4.03	NAIL IN W FACE OF BEECH TREE, 130 FT SW OF AMERICAN LEGION PIER, ABOUT 1 FT ABOVE SAND
MA-20	30.5134	-87.9197	2.83	NAIL IN W FACE OF SMALL CEDAR TREE, 20 FT NE OF TIMBER BULKHEAD, ABOUT 1 FT ABOVE SAND

1: Latitude and longitude were measured with a non-differential GPS and thus can likely be considered accurate to +/- 40 ft.

2: Elevations were estimated by transferring water levels from NOAA PORTS gages throughout the Mobile Bay and are thus likely considered accurate to +/- 0.5 ft.

Profile NO-3



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 Profile NO-3
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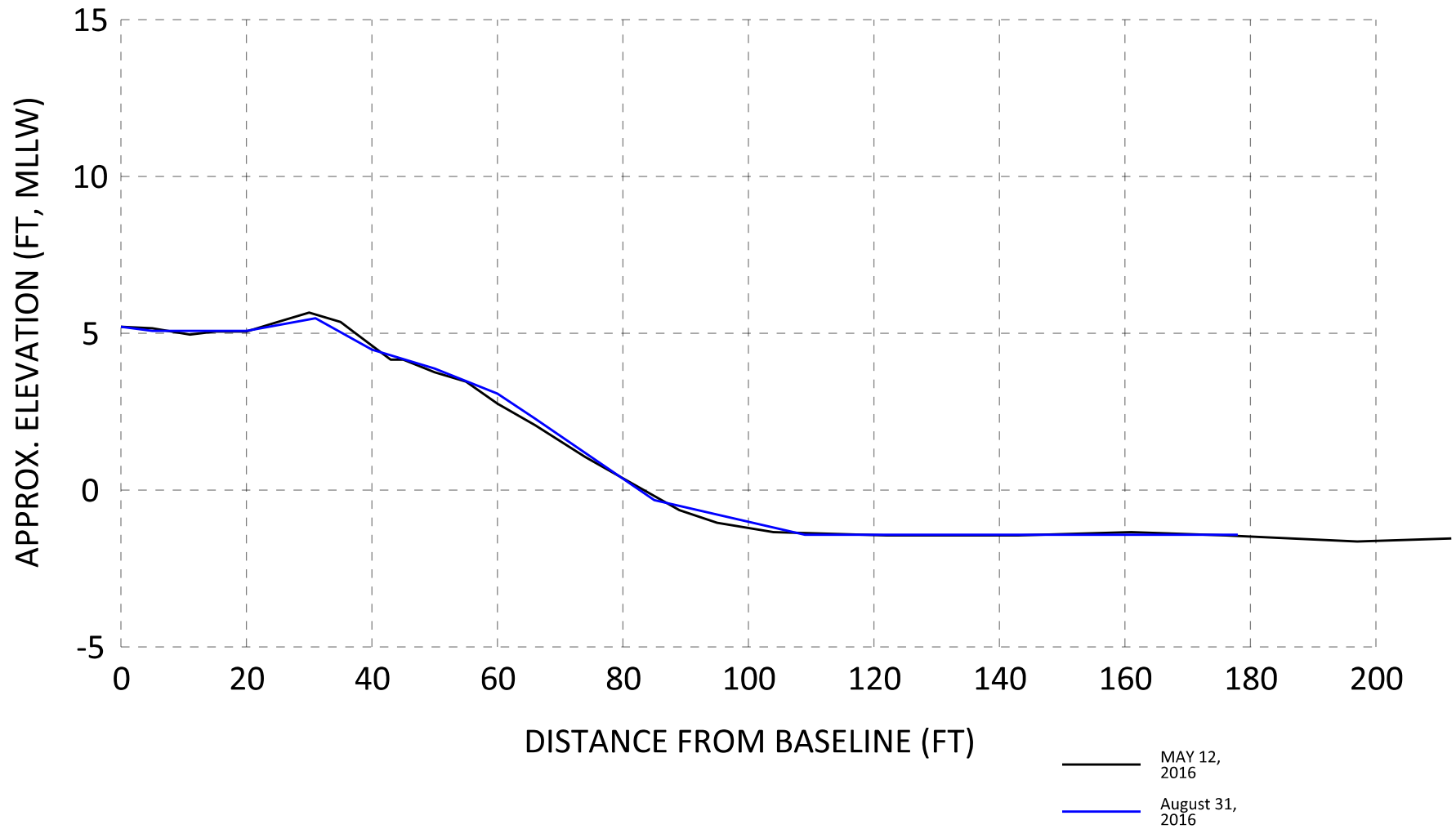


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X1
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Profile NO-4



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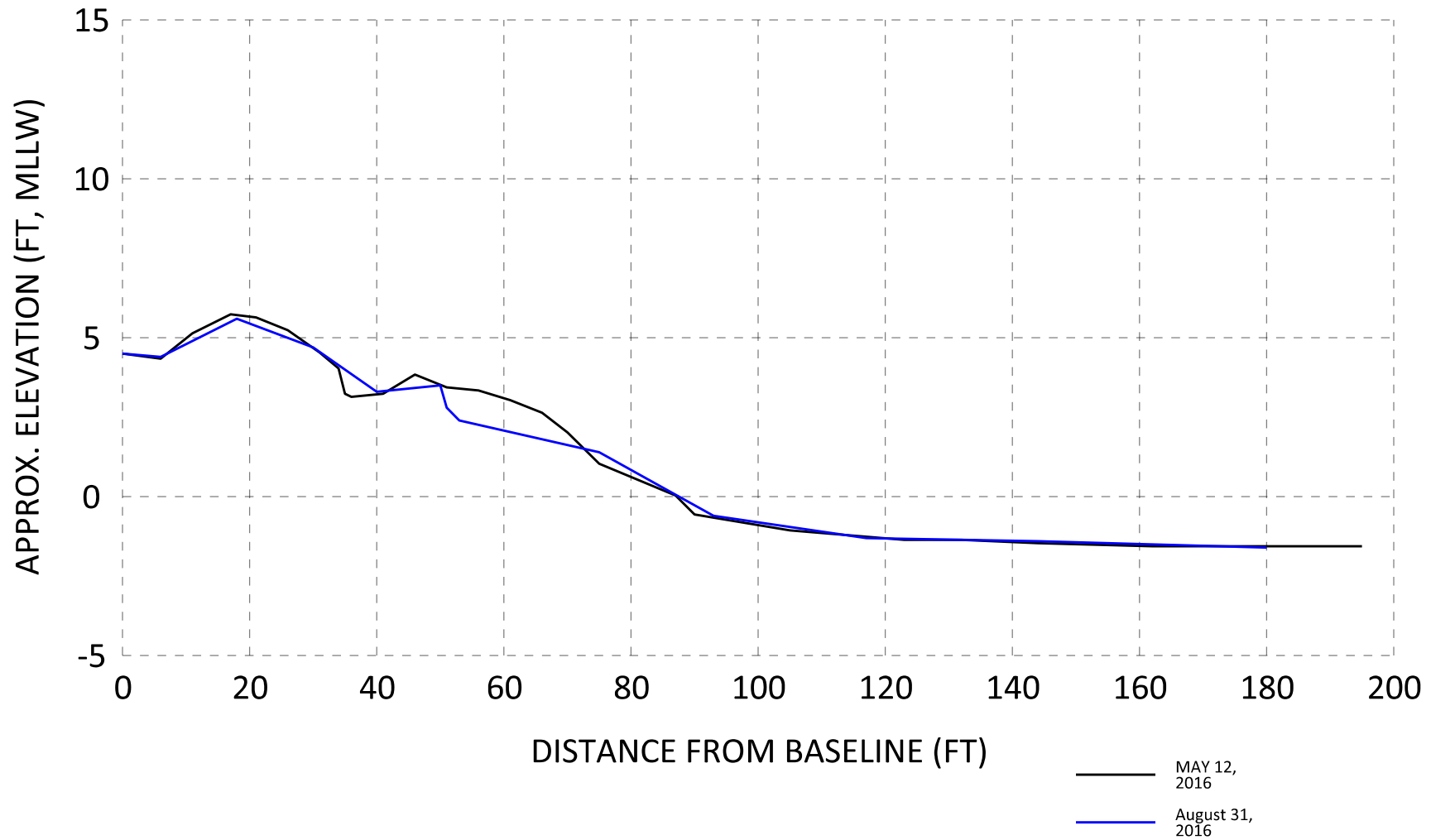


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Profile NO-5



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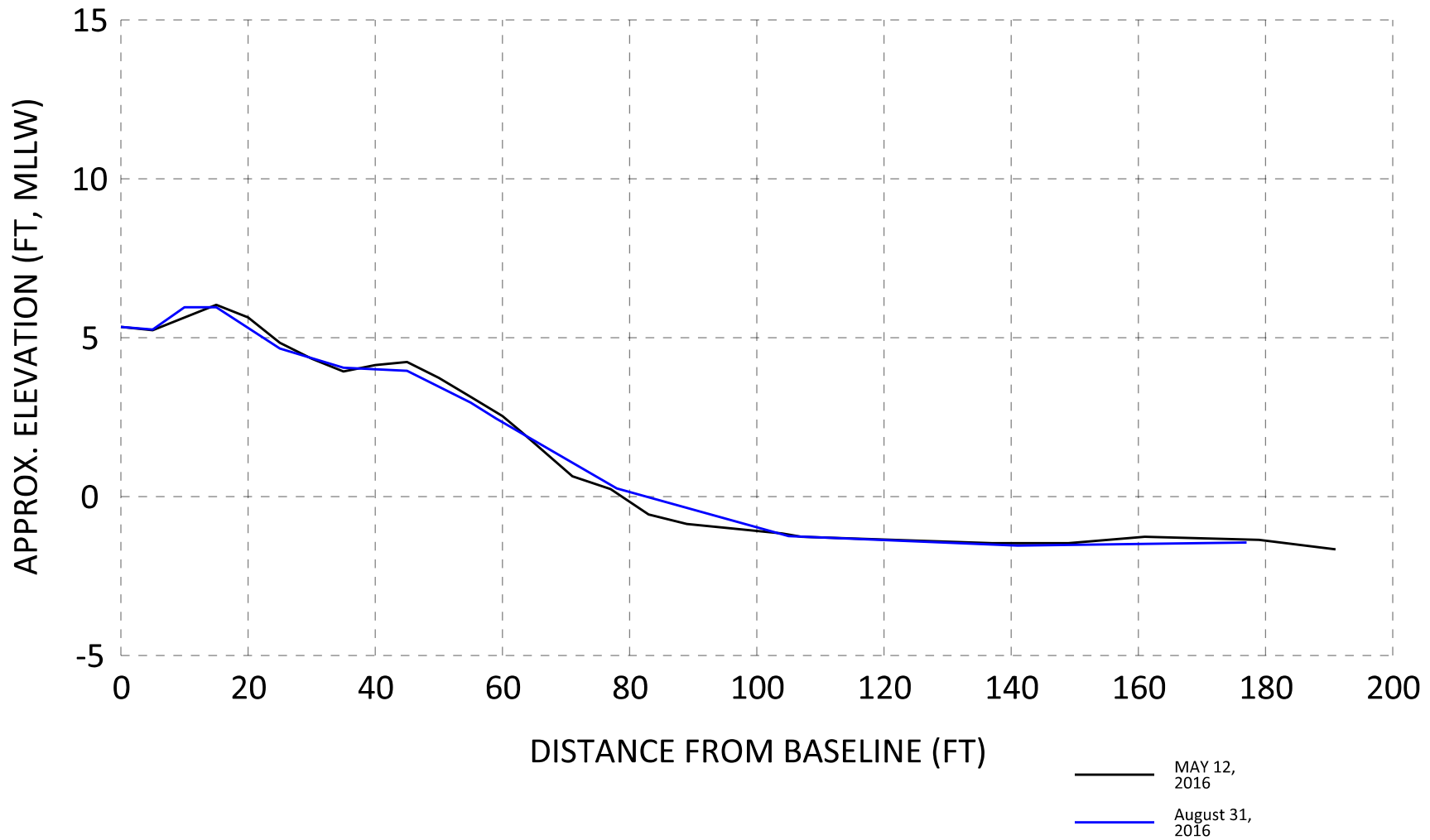


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Profile NO-6



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 Fairhope, AL

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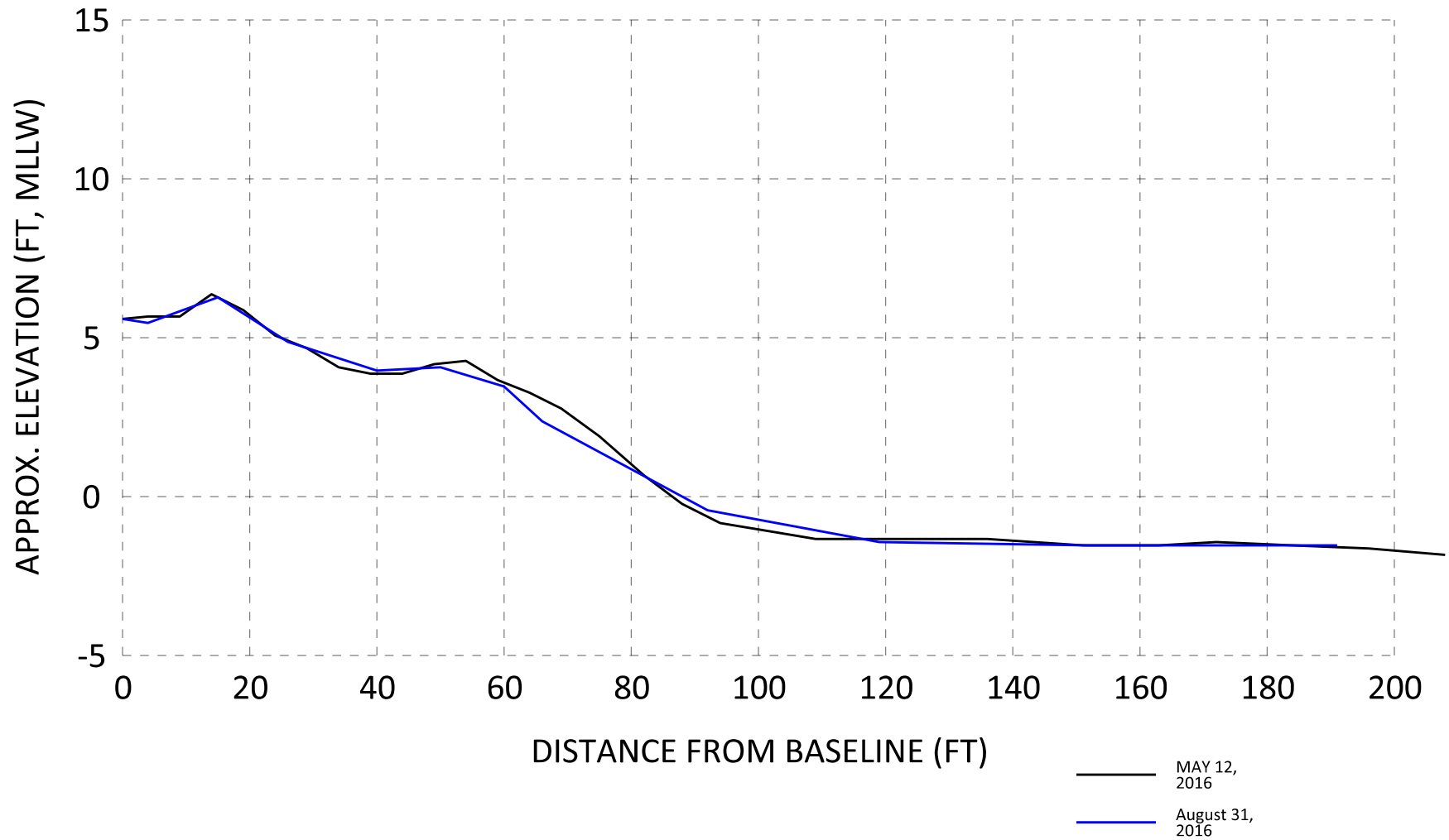


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Profile NO-7



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 Fairhope, AL

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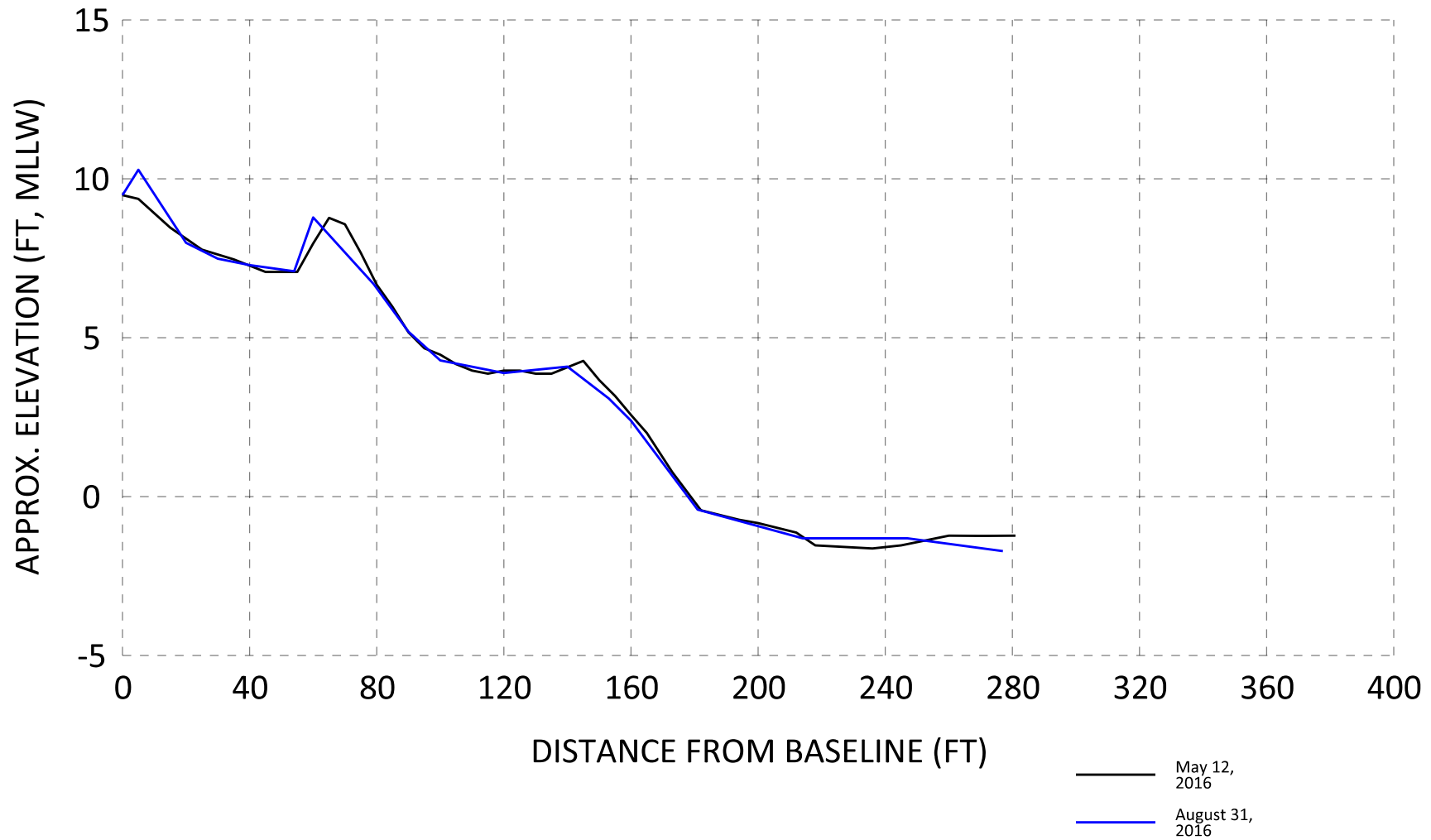


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Profile NO-8



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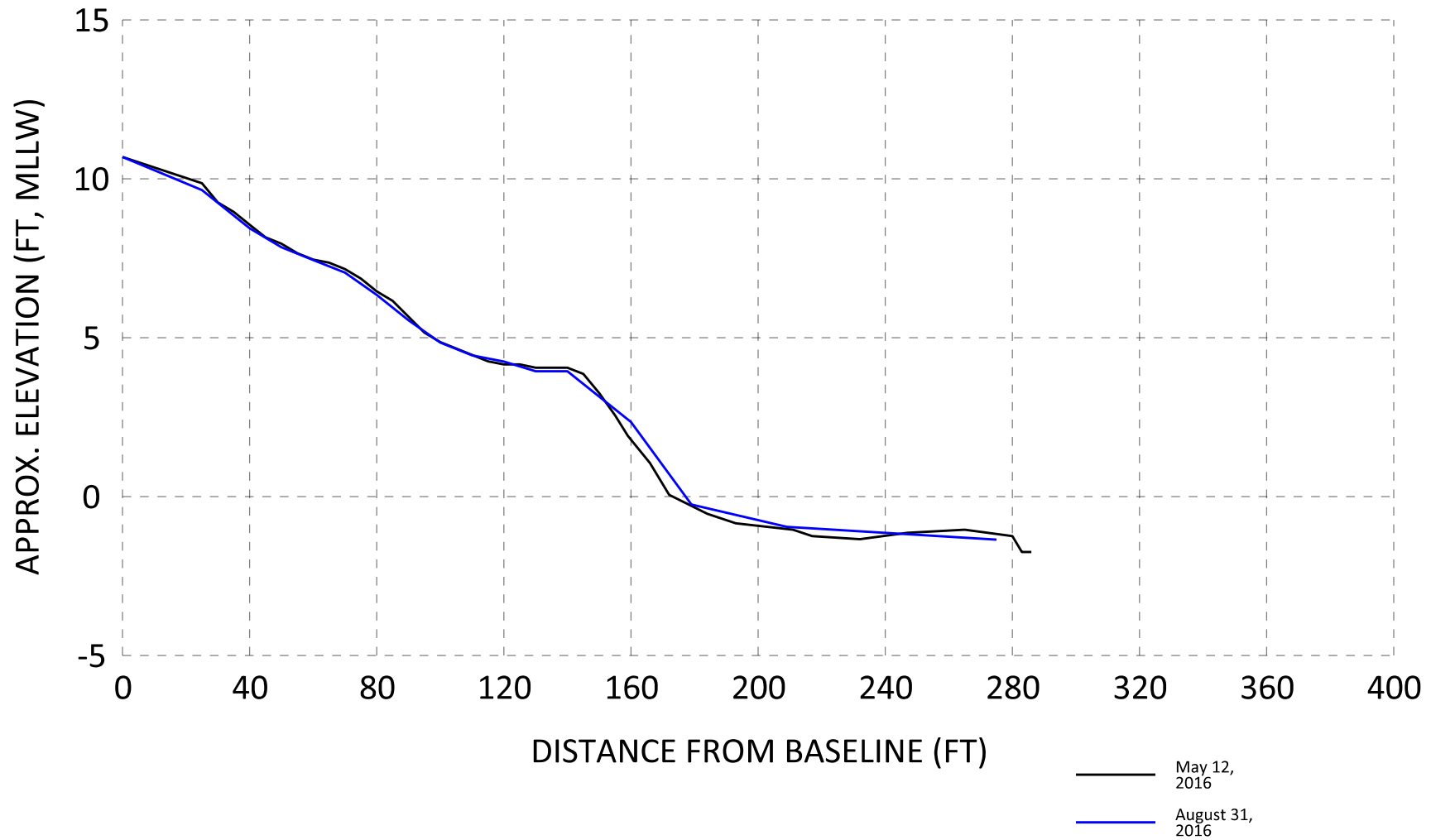


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Profile NO-9



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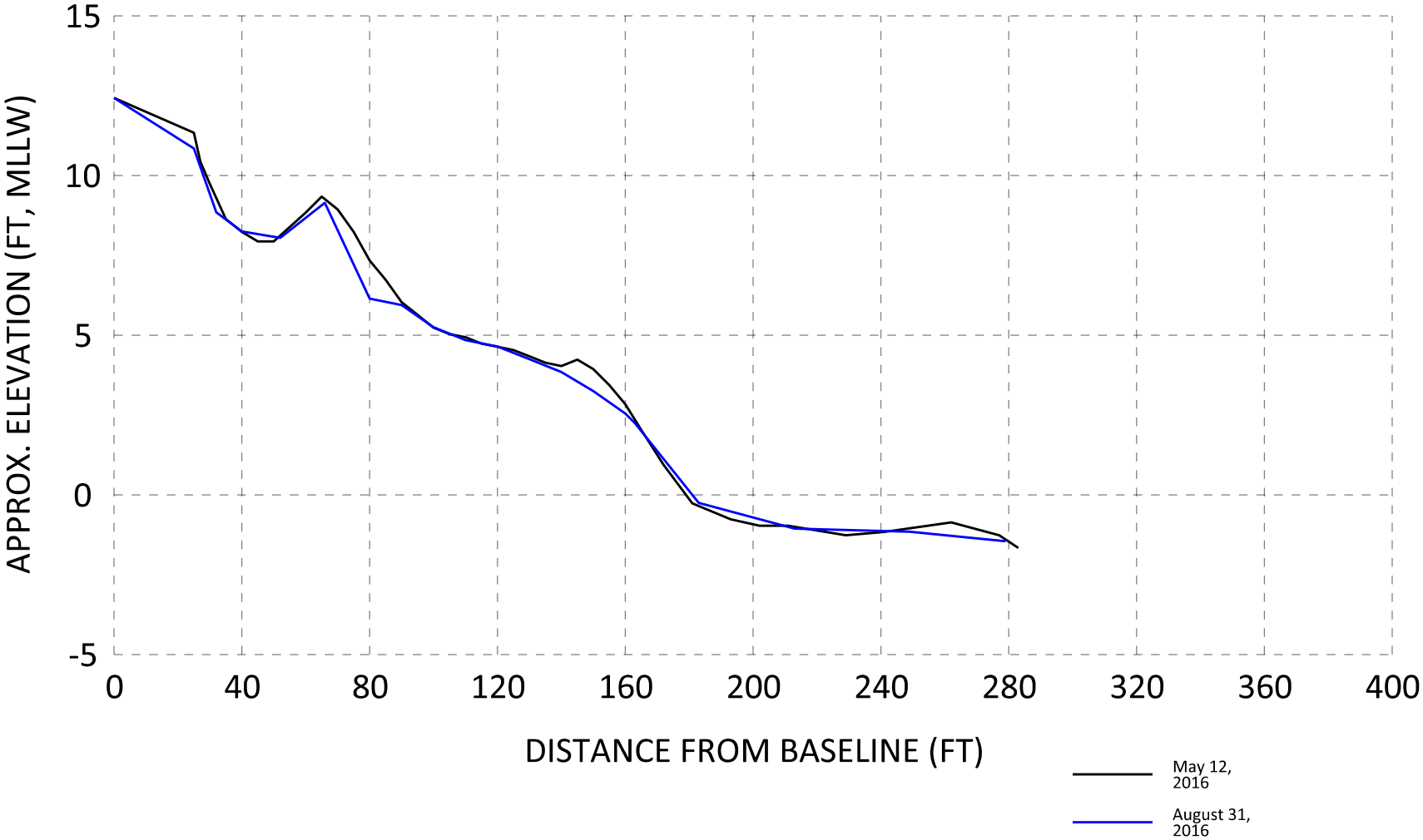
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Profile NO-10



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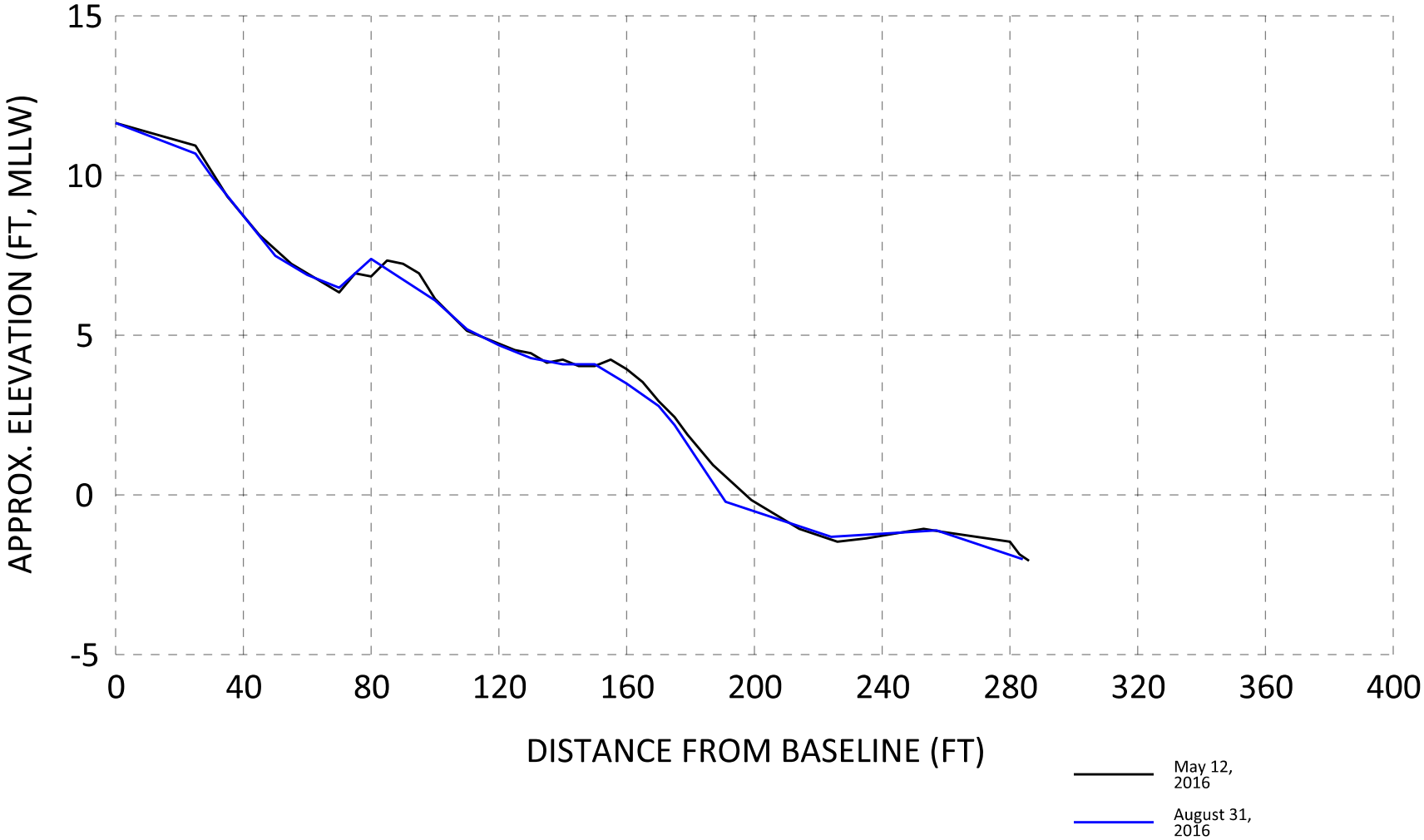


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Profile NO-11



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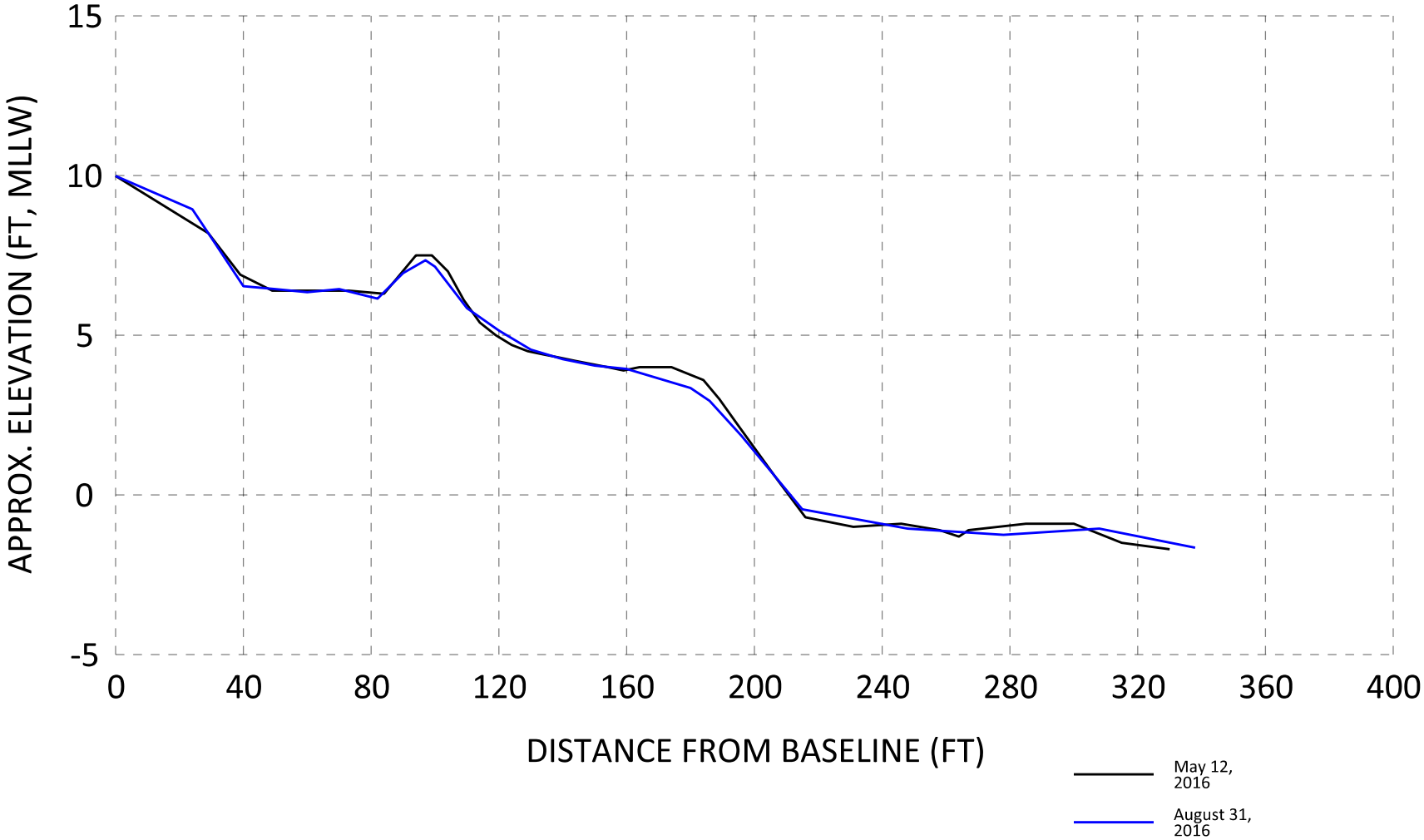
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Profile NO-12



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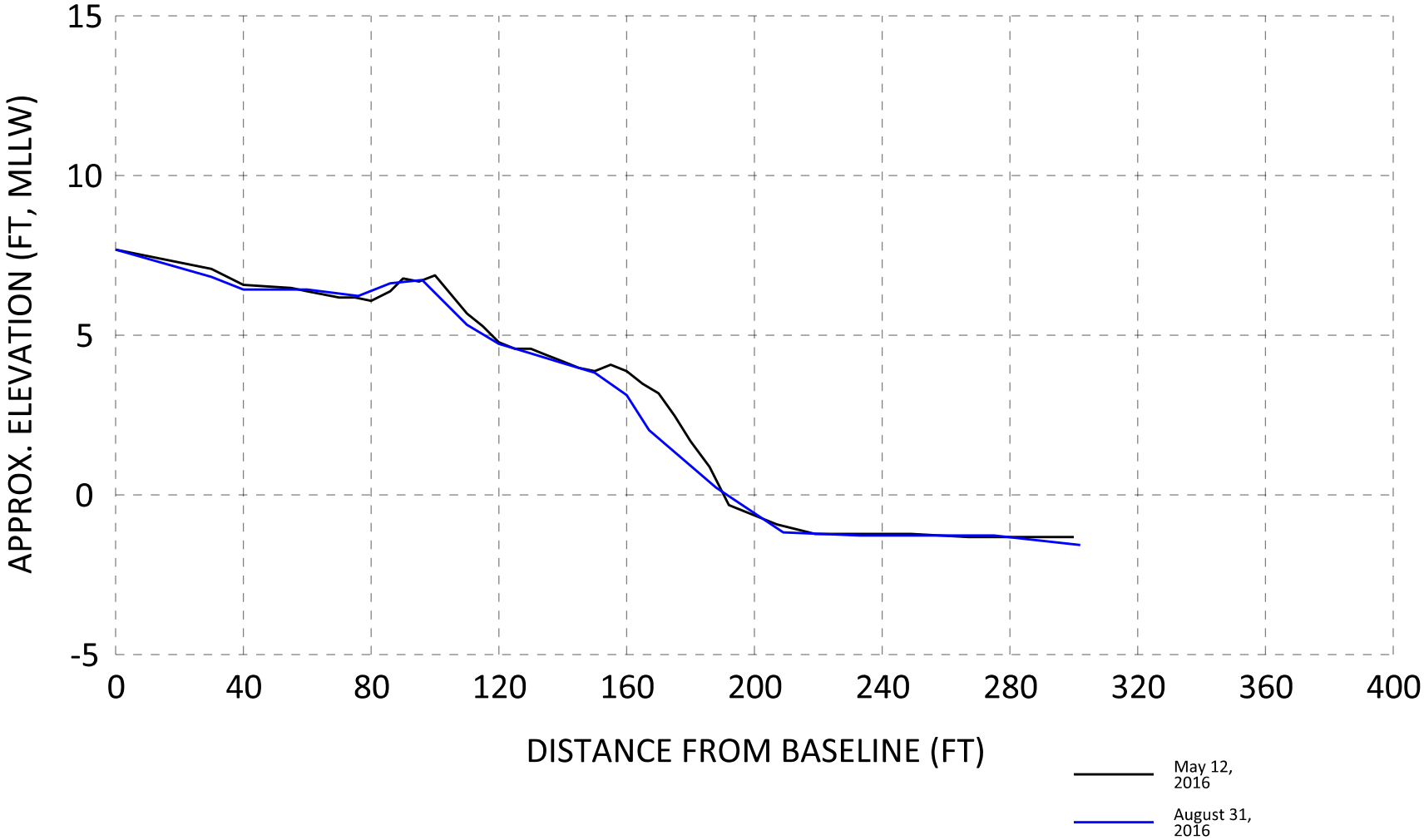


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Profile NO-13



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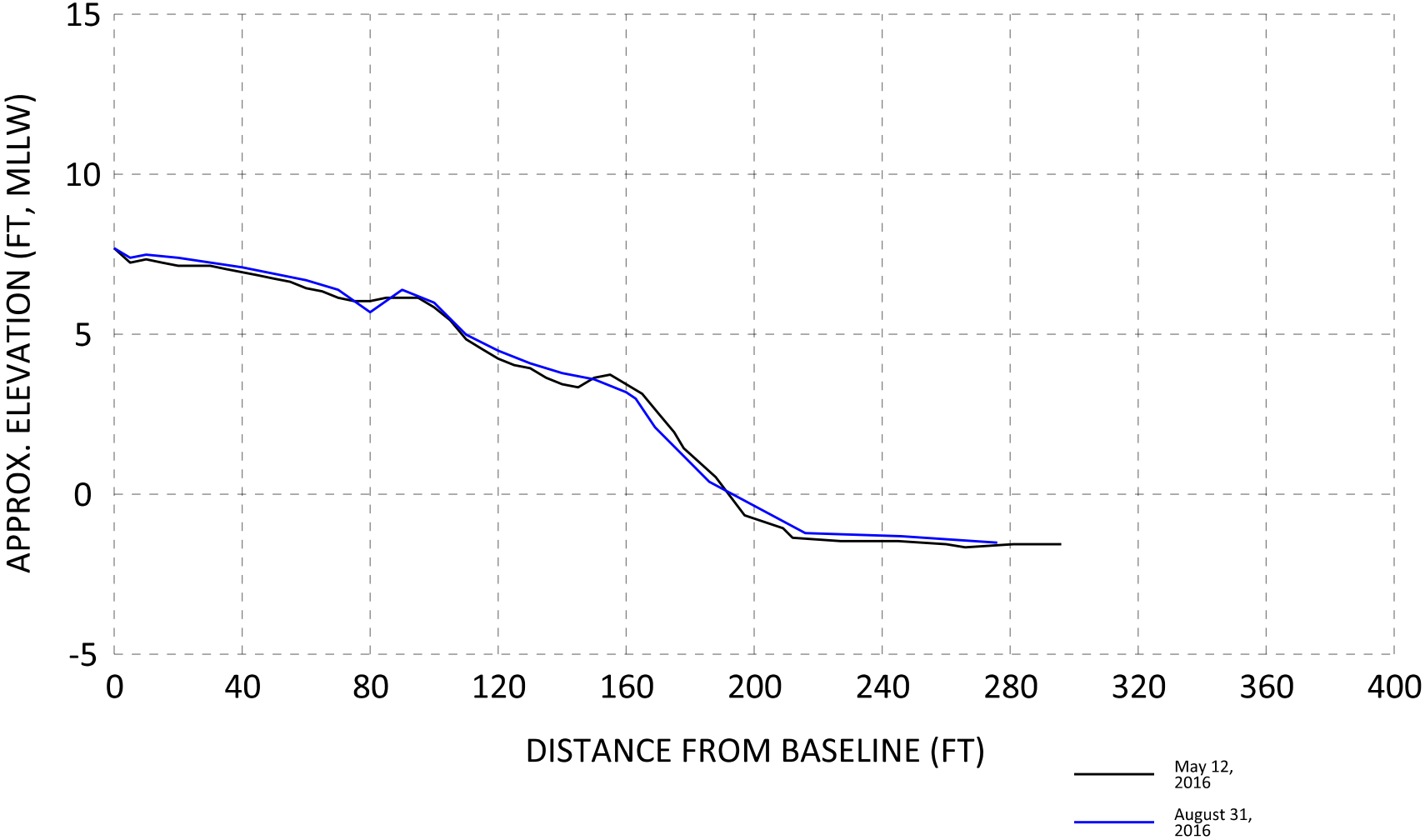


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Profile NO-14



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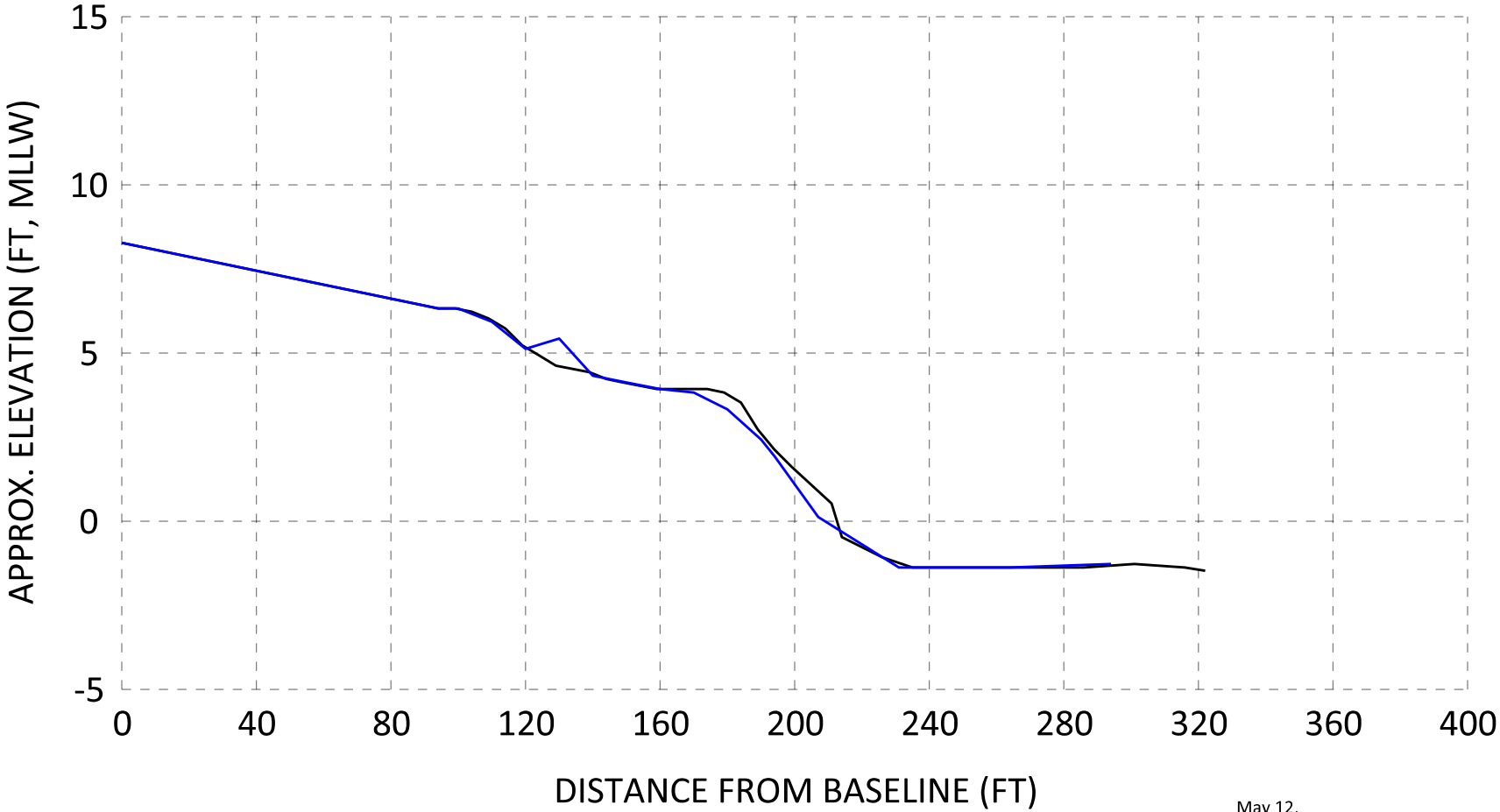


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X12
 SHEET 12 OF 35

Profile NO-15



— May 12, 2016
— August 31, 2016

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 Profile NO-15
 Fairhope, AL

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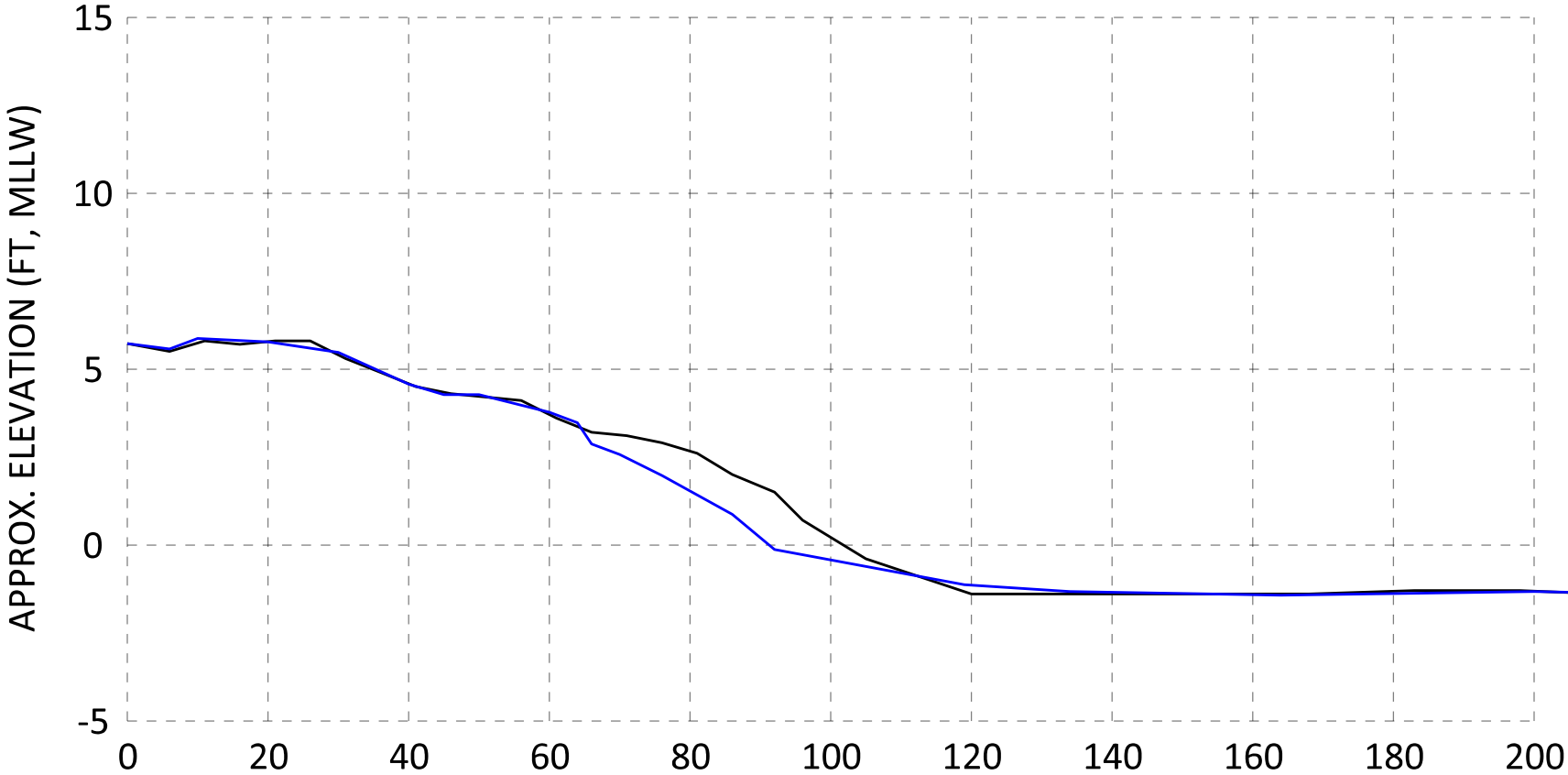


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X13
 SHEET 13 OF 35

Profile NO-16



— MAY 12, 2016
 — August 31, 2016

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 Profile NO-16
 Fairhope, AL

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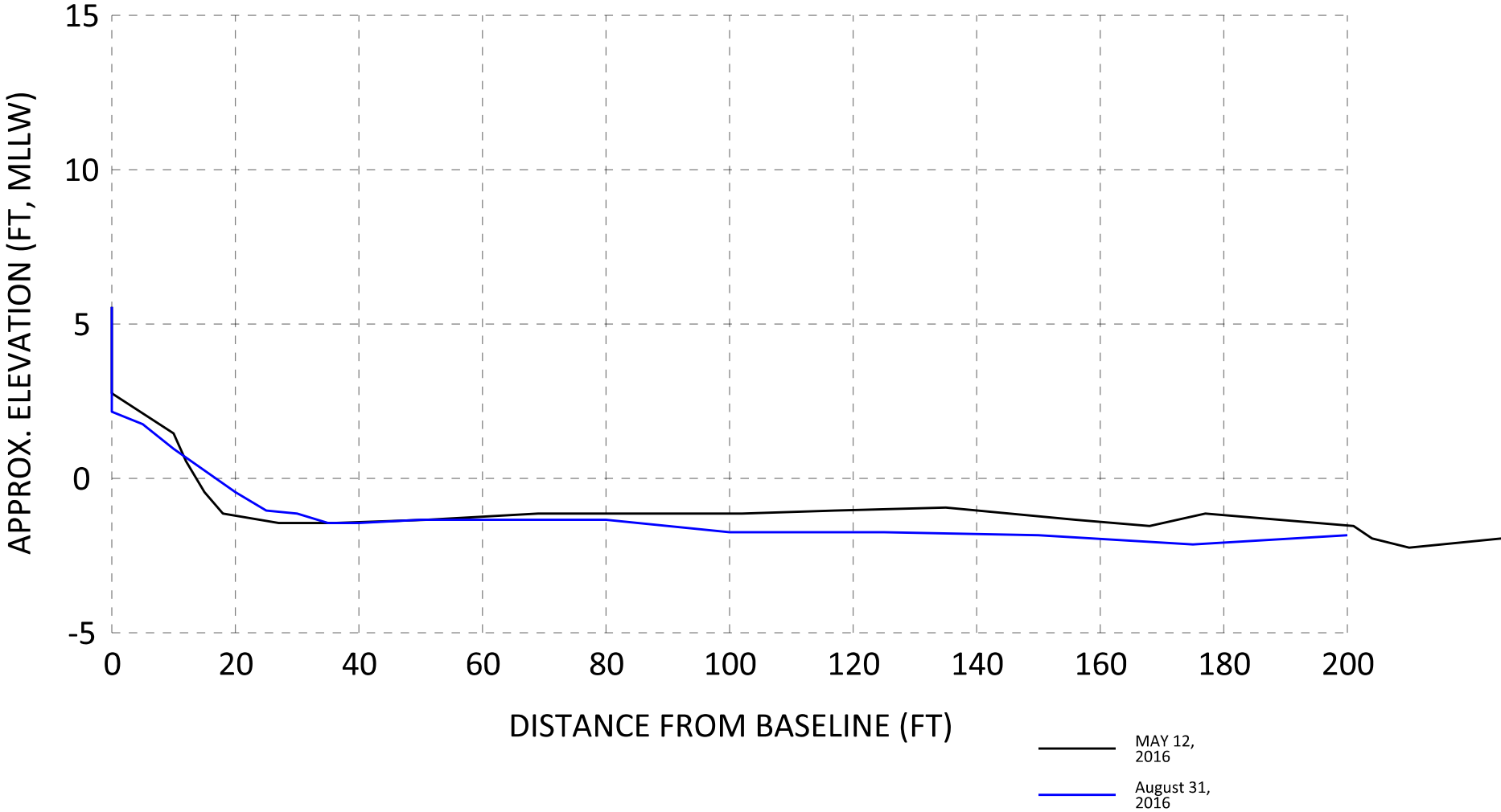


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X14
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Profile NO-17



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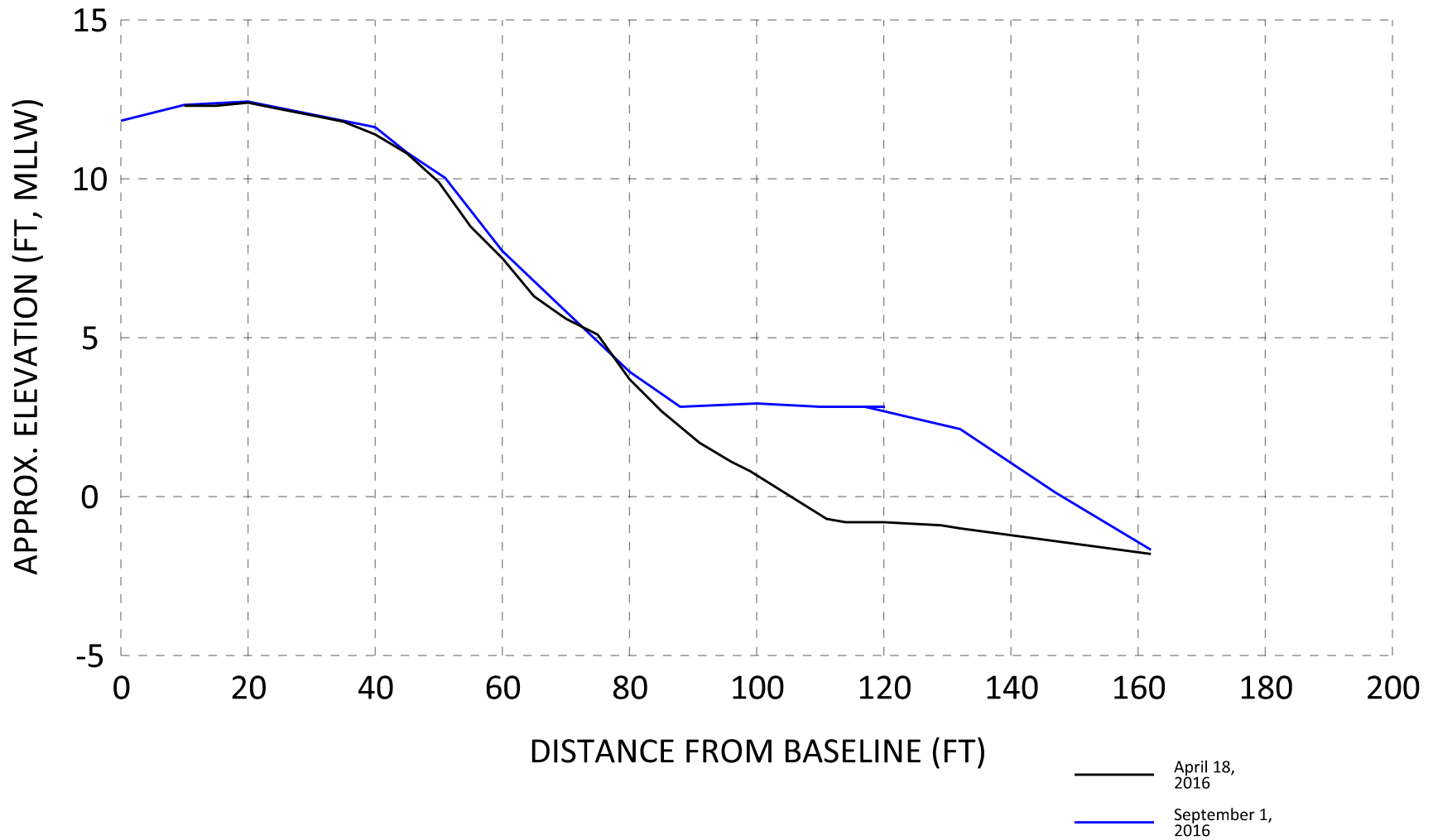


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X15
 SHEET 15 OF 35

Profile MA-1



Fairhope Beach Management Plan
 Profile MA-1
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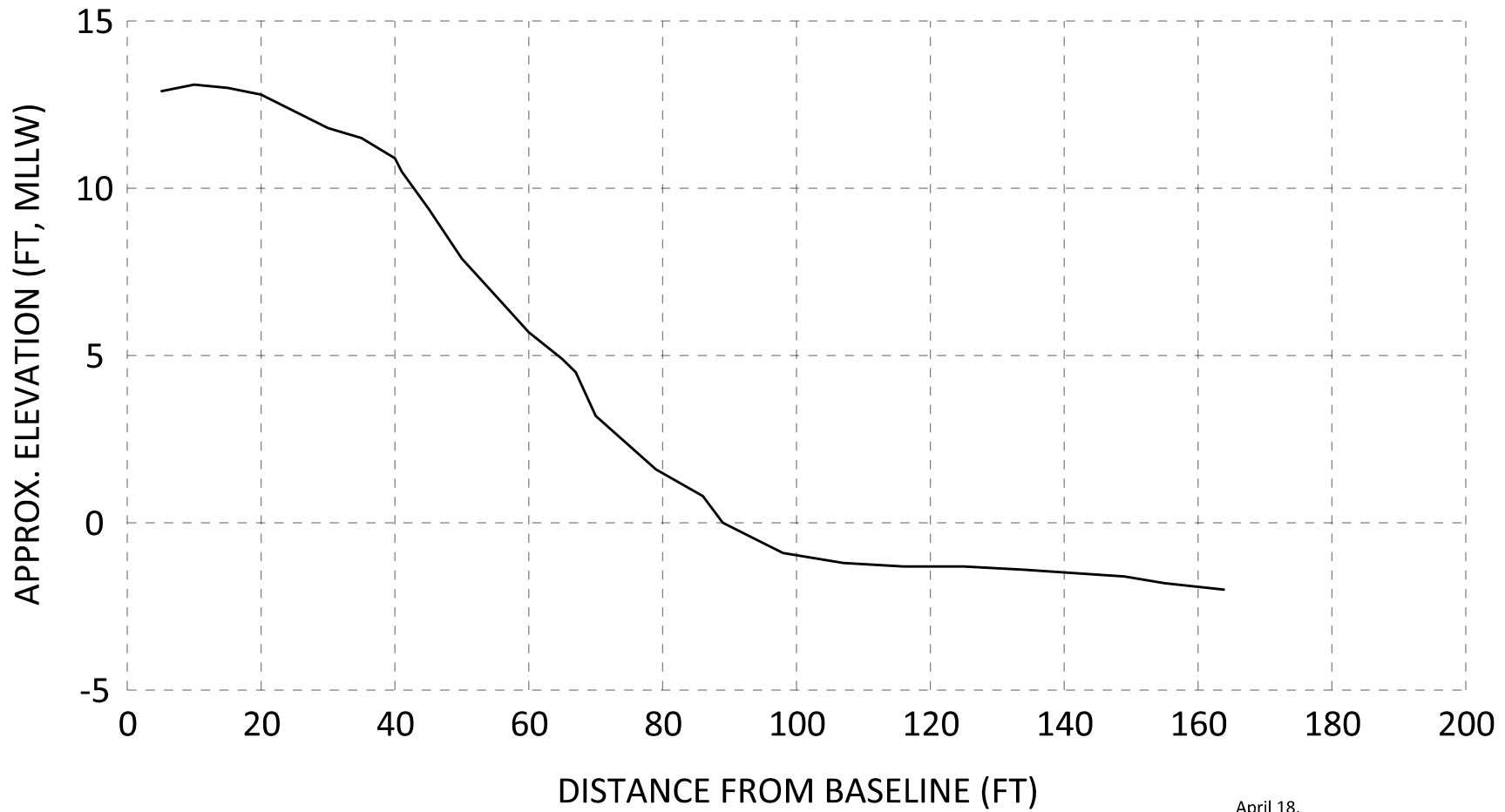


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 SHEET 16 OF 35

Profile MA-2



— April 18, 2016
 — September 1, 2016

Fairhope Beach Management Plan
 Profile MA-2
 Fairhope, AL

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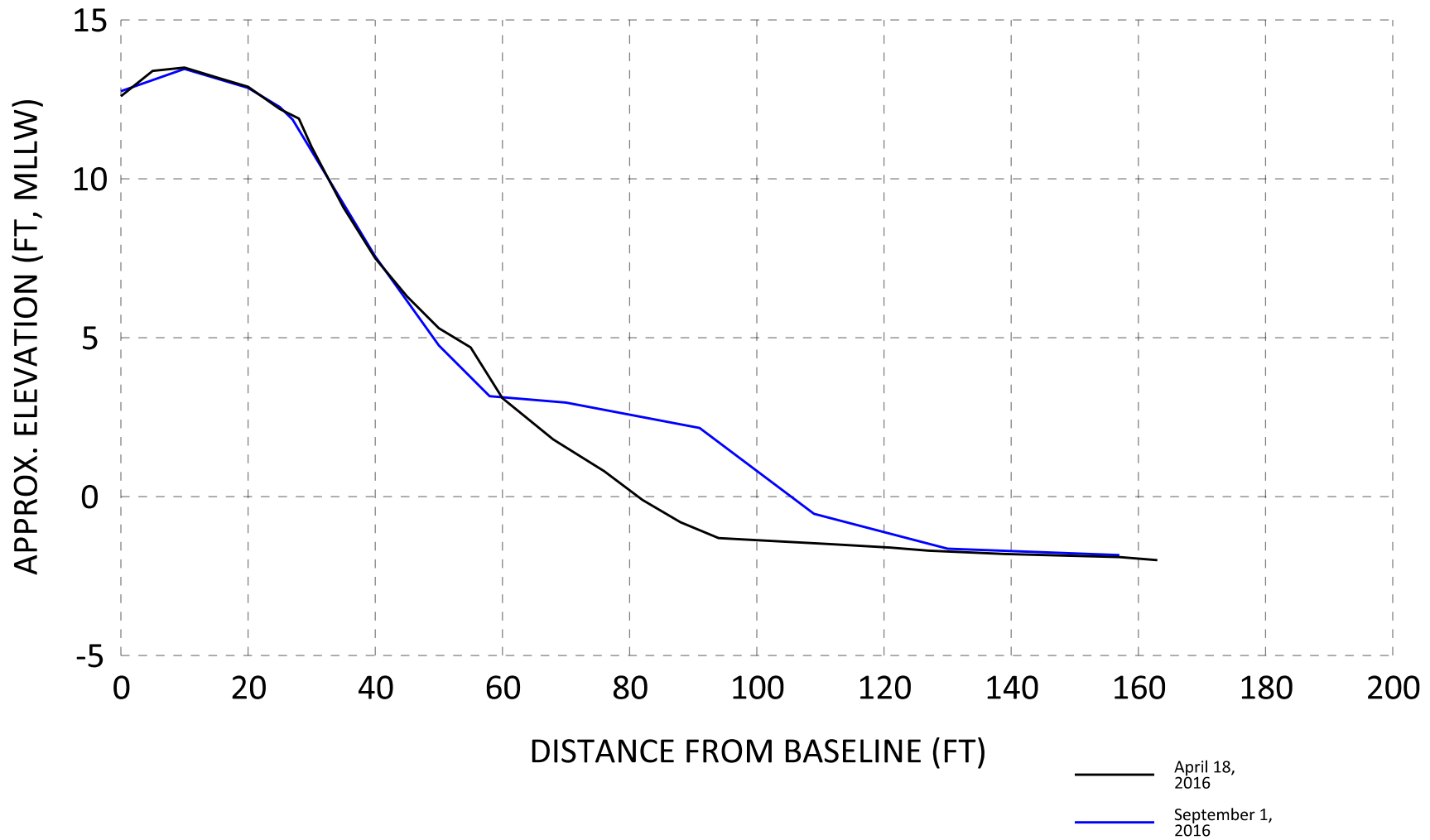


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X17
 SHEET 17 OF 35

Profile MA-3



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 Profile MA-3
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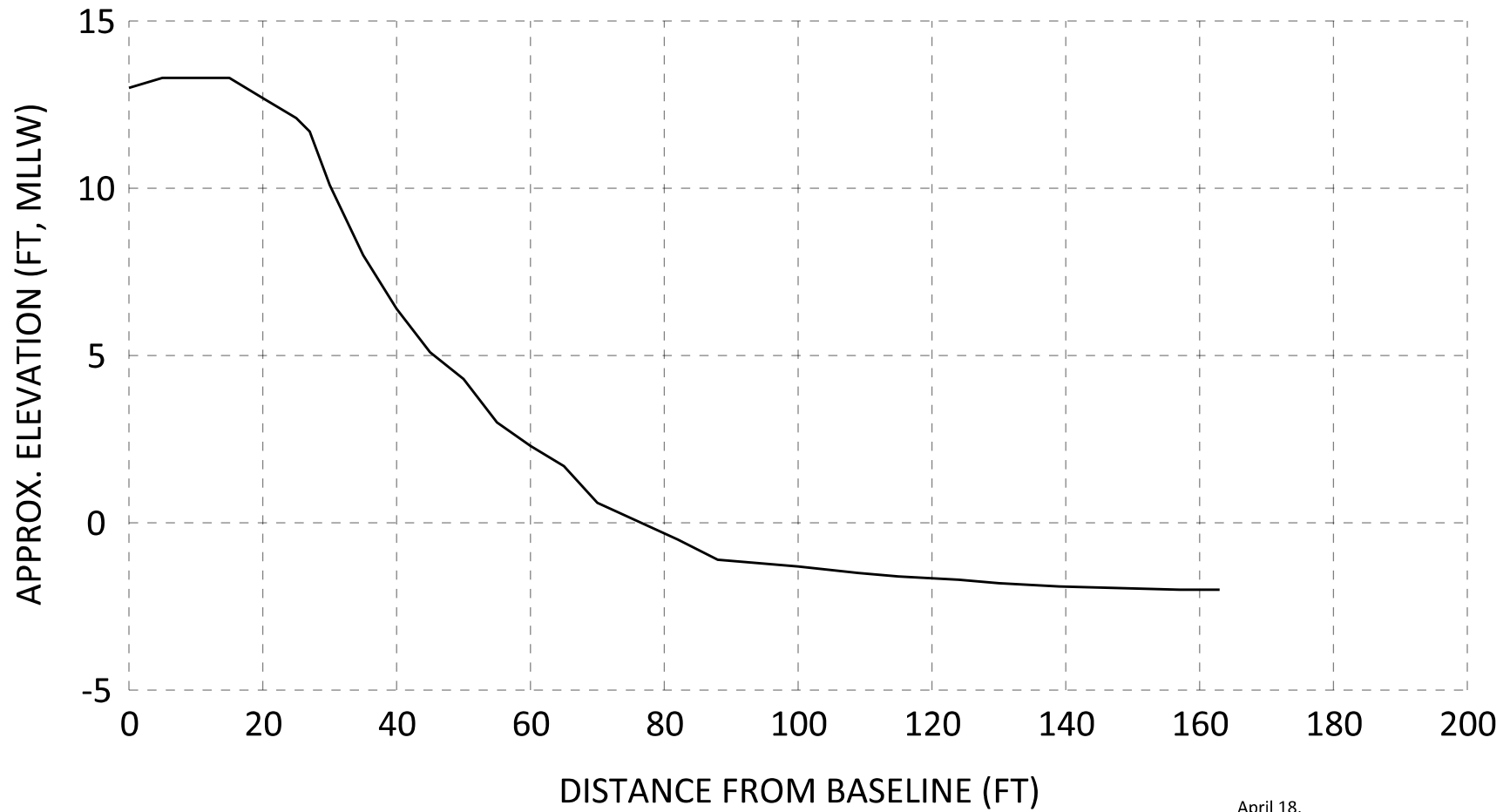


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X18
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Profile MA-4



— April 18, 2016
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 Profile MA-4
 Fairhope, AL

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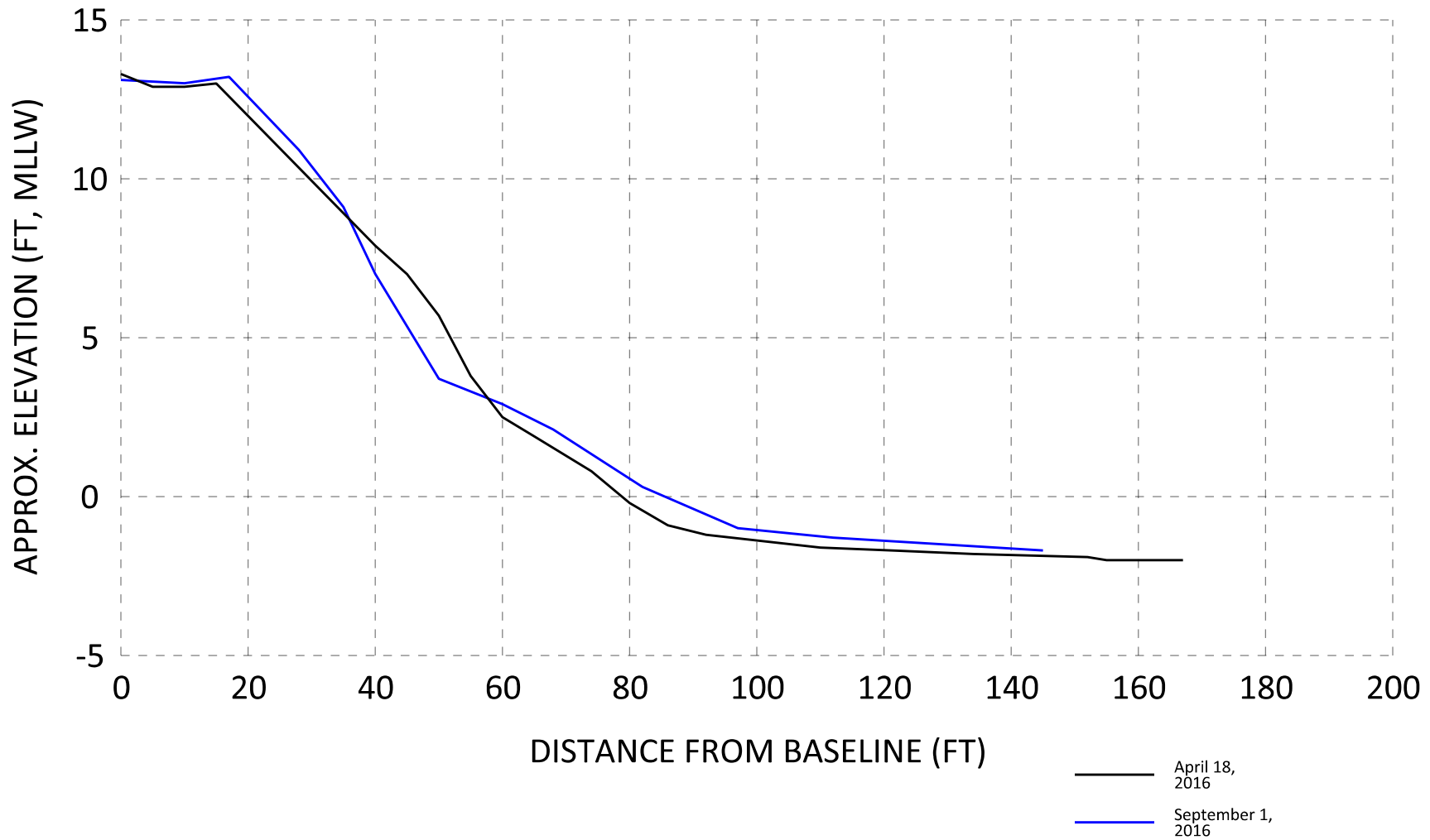


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 SHEET 19 OF 35

Profile MA-5



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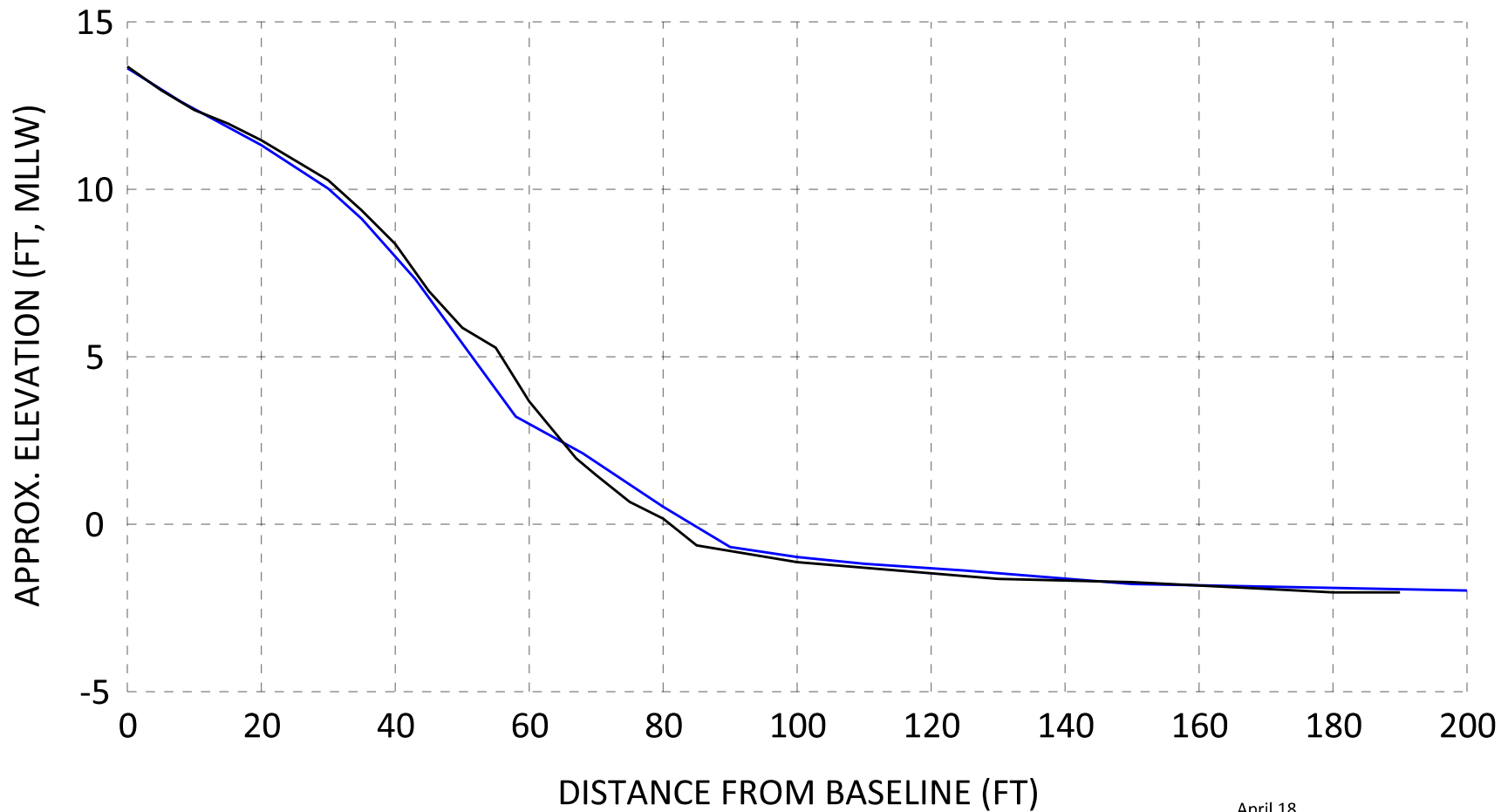


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SOUTH COAST ENGINEERS
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X20
 SHEET 20 OF 35

Profile MA-6



— April 18, 2016
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 Profile MA-6
 Fairhope, AL

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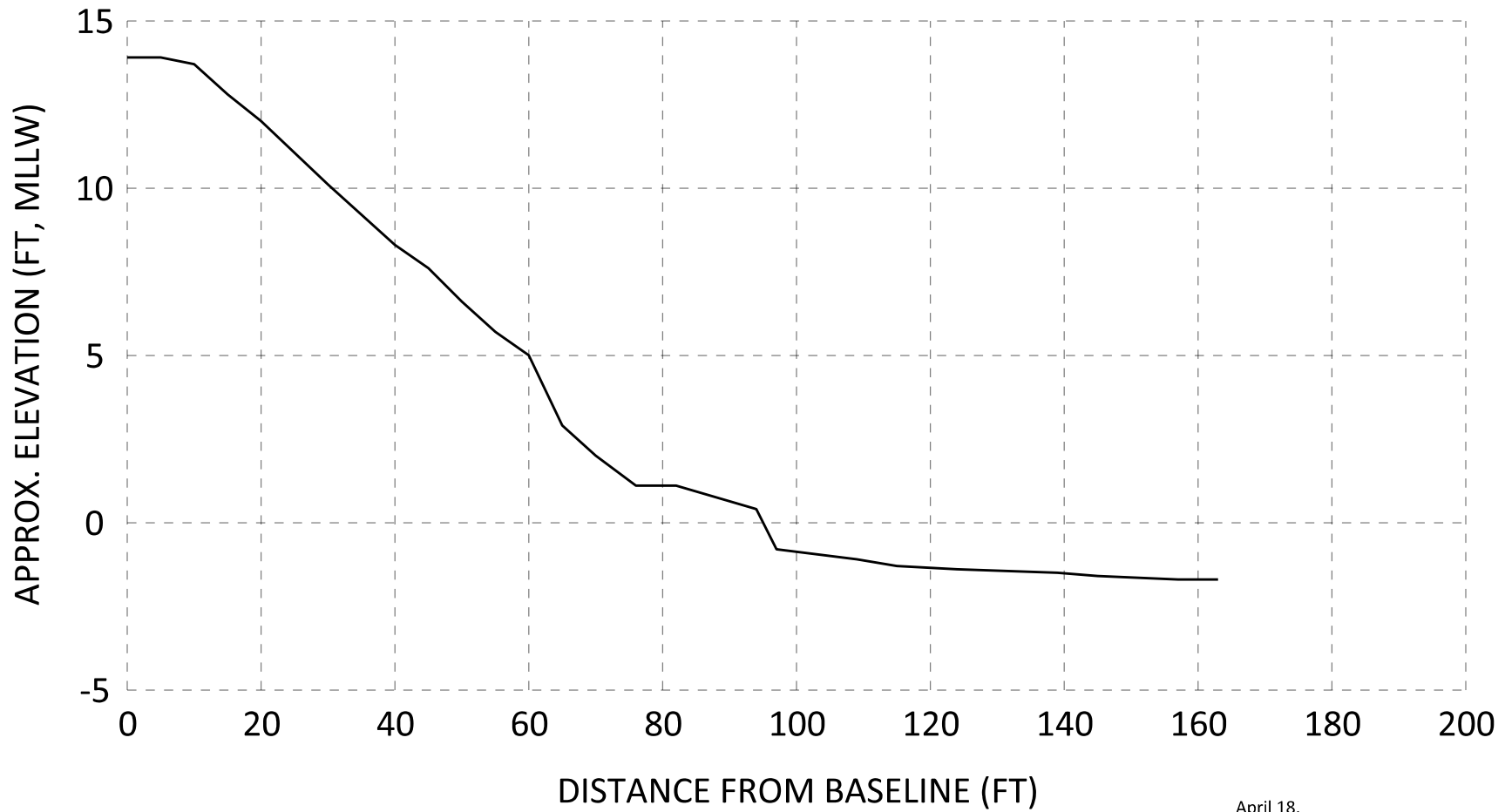


City of Fairhope

SOUTH COAST ENGINEERS
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X21
 SHEET 21 OF 35

Profile MA-7



— April 18, 2016
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 Profile MA-7
 Fairhope, AL

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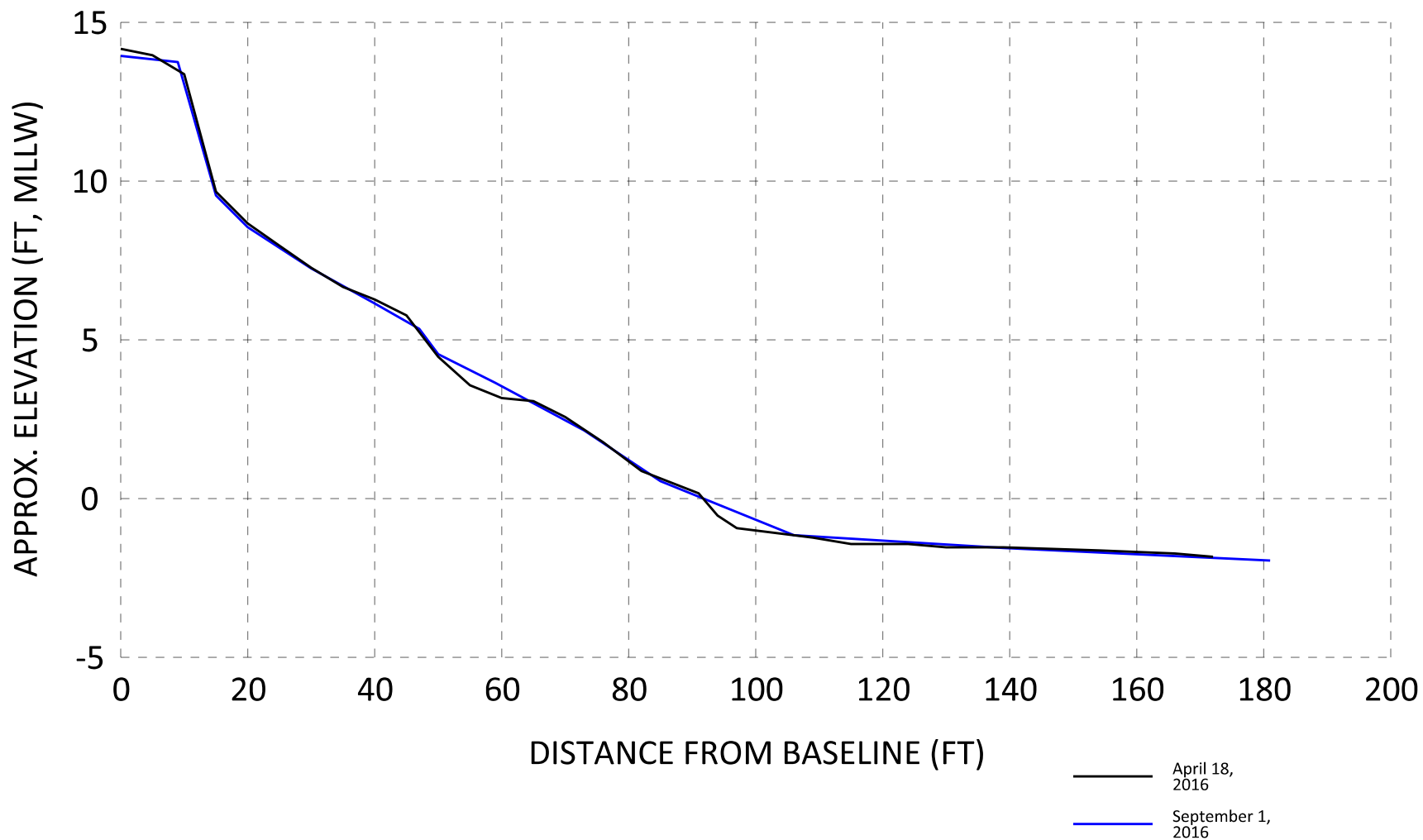


City of Fairhope

SOUTH COAST ENGINEERS
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X22
 SHEET 22 OF 35

Profile MA-8



Fairhope Beach Management Plan
 Profile MA-8
 Fairhope, AL

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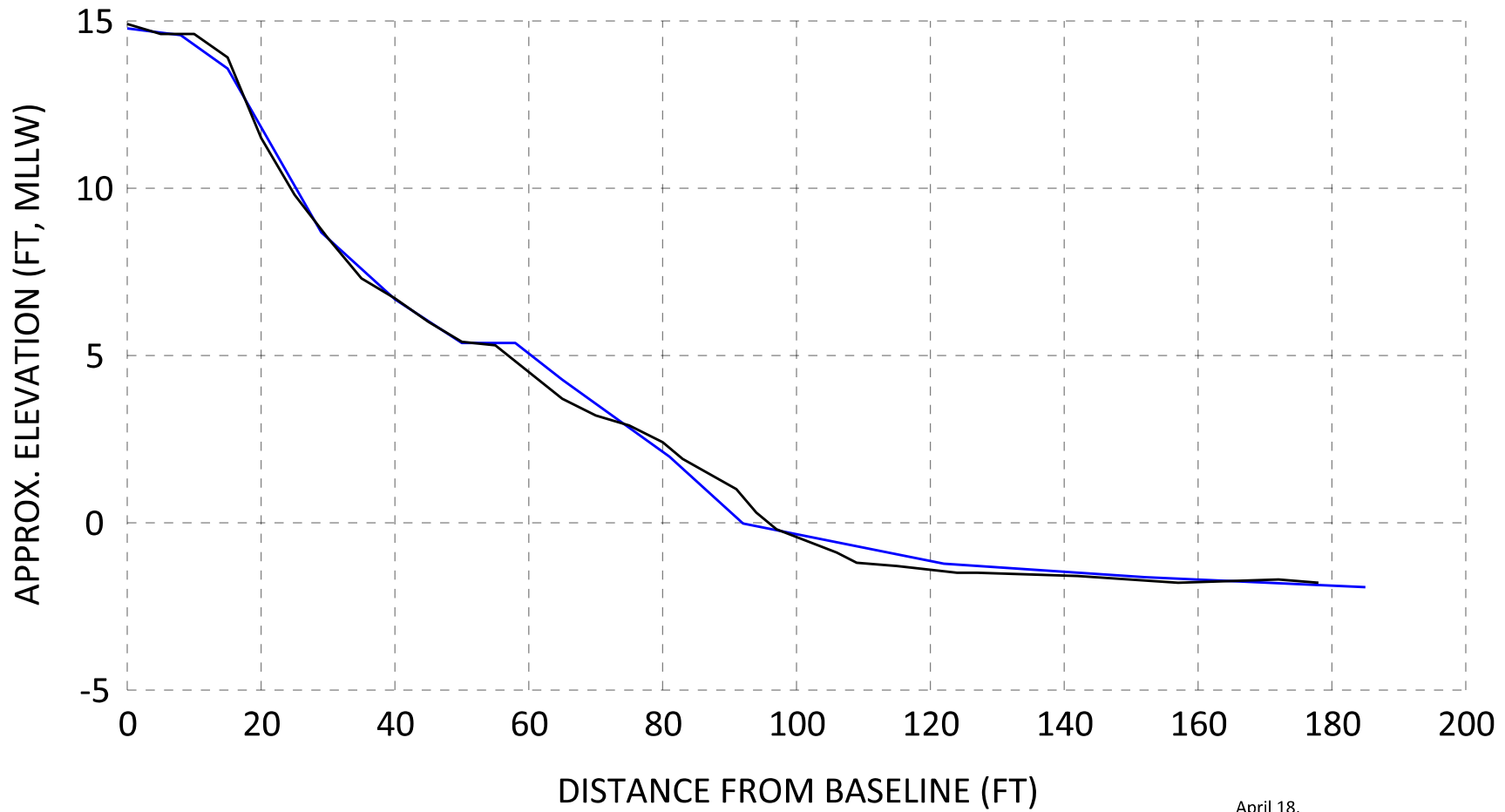


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SOUTH COAST ENGINEERS
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DRAWING NO.
X23
 SHEET 23 OF 35

Profile MA-9



— April 18, 2016
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Fairhope Beach Management Plan
 Profile MA-9
 Fairhope, AL

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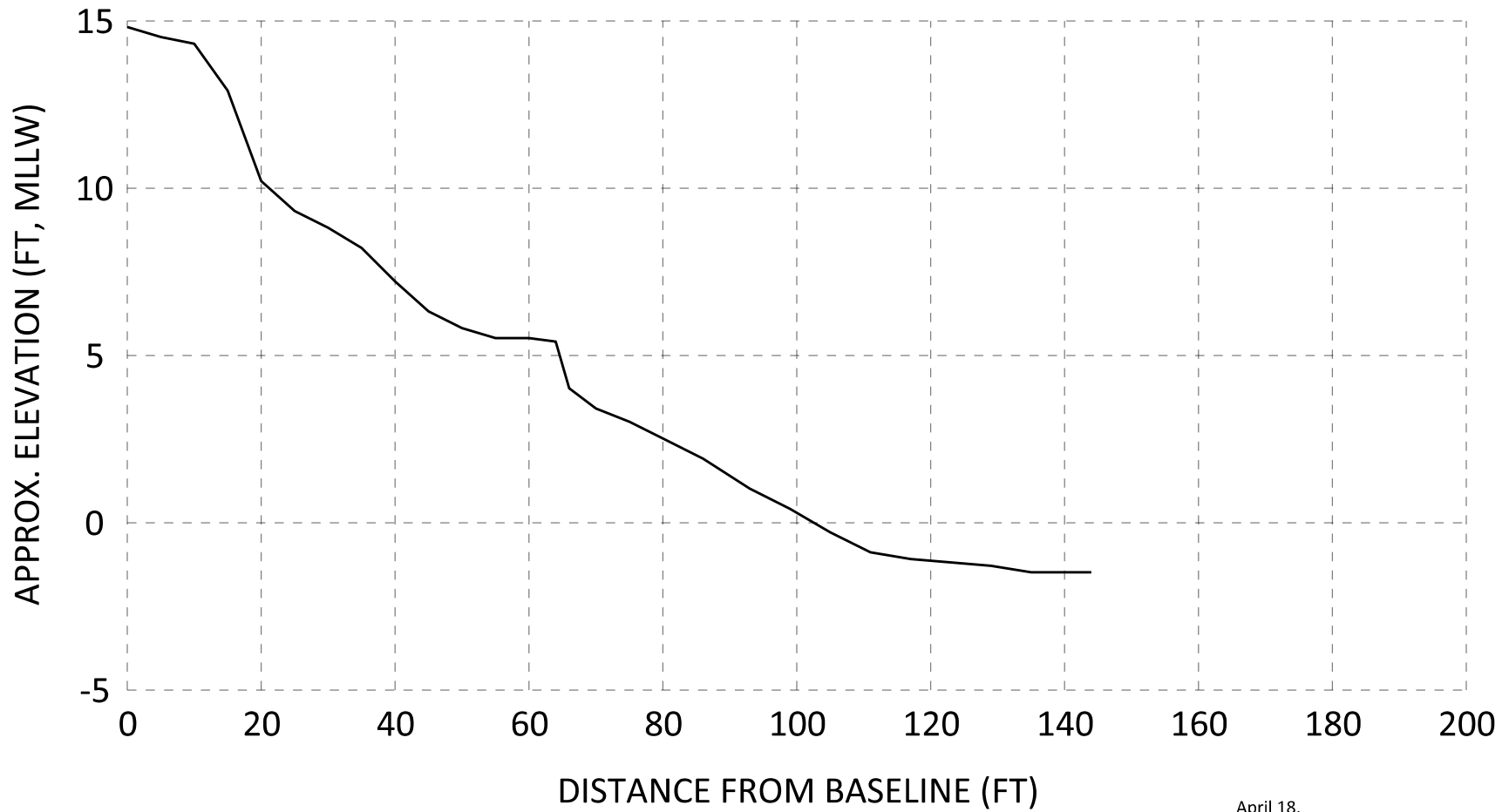




City of Fairhope

SOUTH COAST ENGINEERS
 Engineering for the Coast

DRAWING NO.
X24
 SHEET 24 OF 35

Profile MA-10



 April 18, 2016
 September 1, 2016

Fairhope Beach Management Plan
 Profile MA-10
 Fairhope, AL

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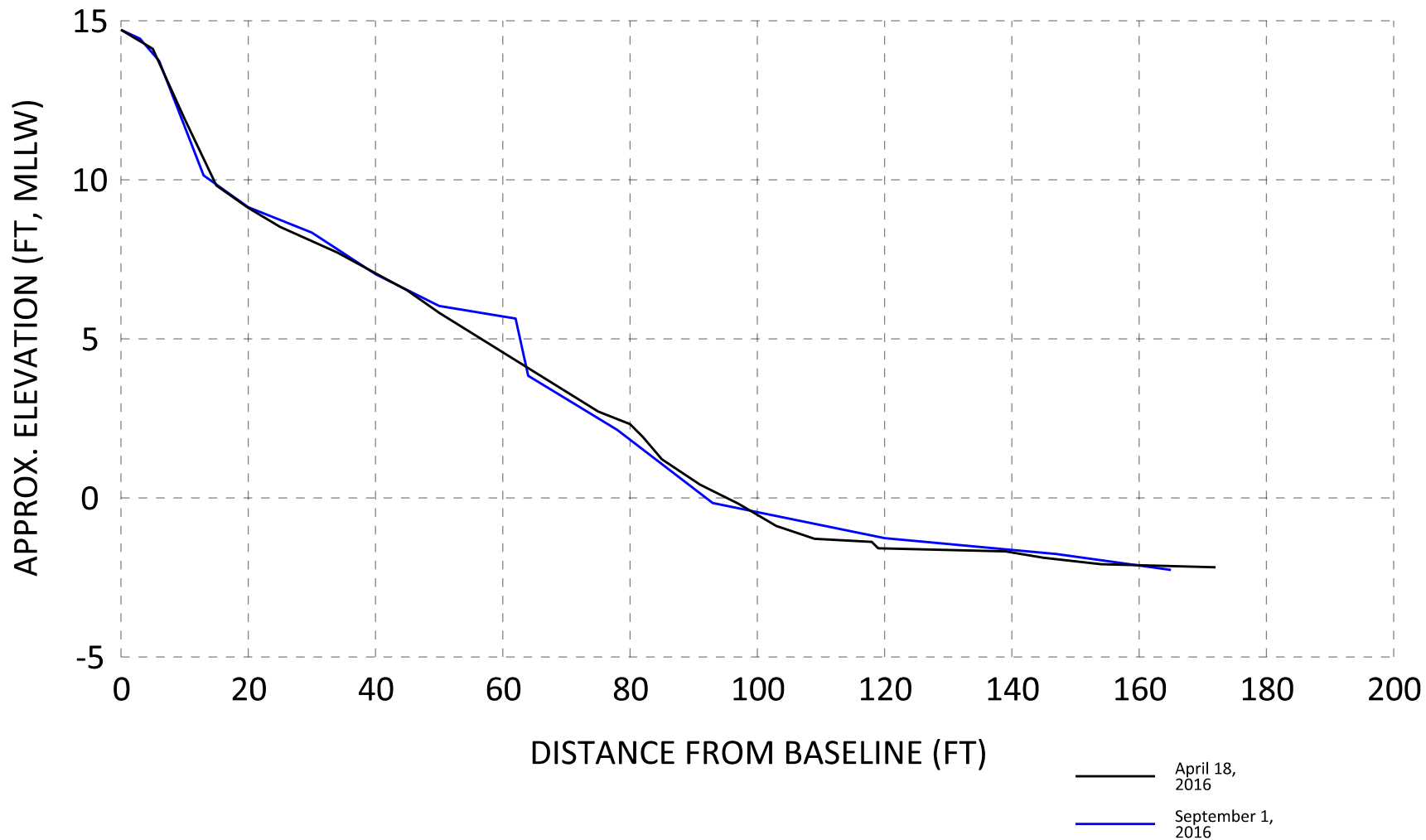


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SOUTH COAST ENGINEERS
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DRAWING NO.
X25
 SHEET 25 OF 35

Profile MA-11



Fairhope Beach Management Plan
 Profile MA-11
 Fairhope, AL

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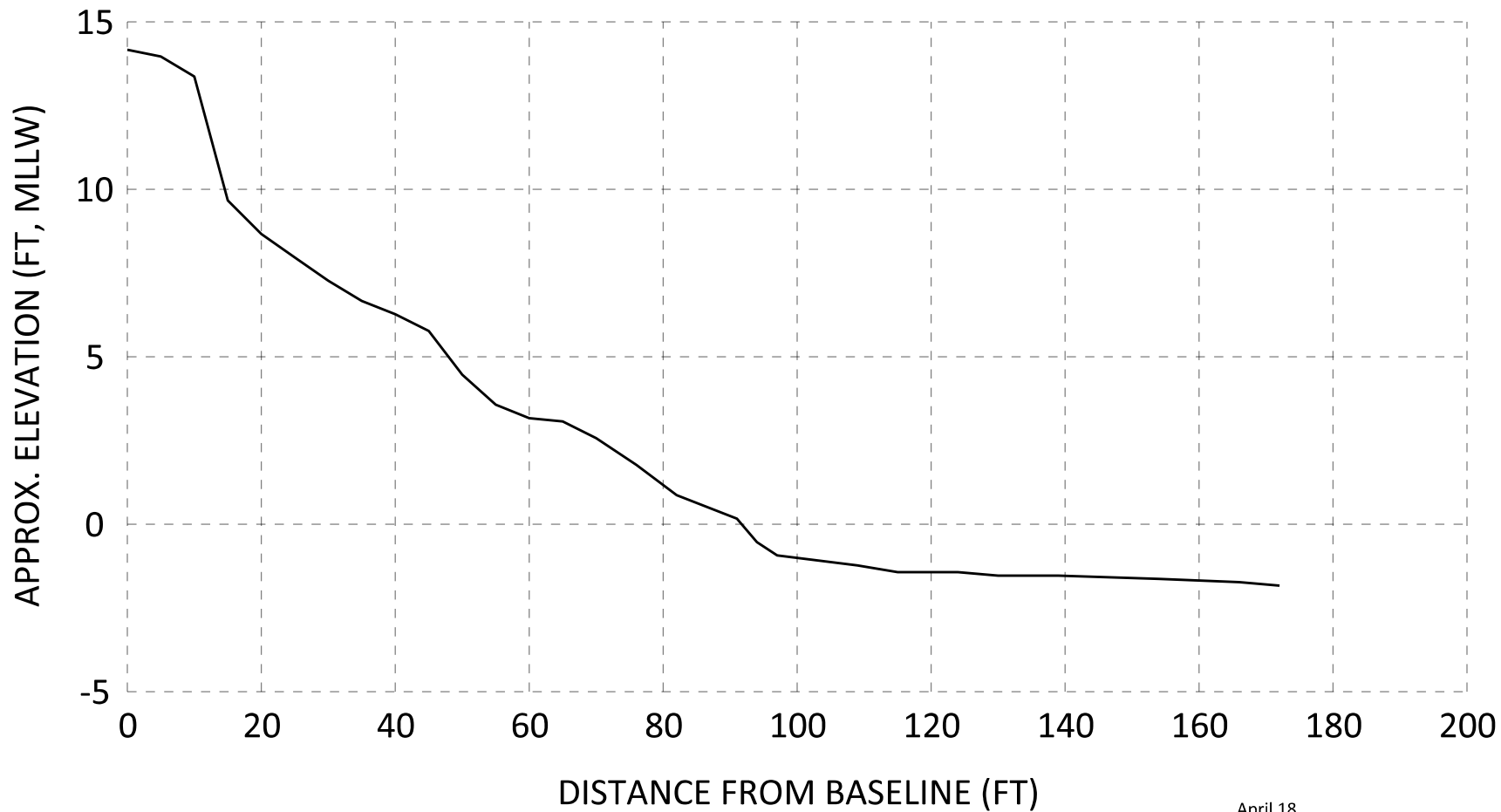


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SOUTH COAST ENGINEERS
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DRAWING NO.
X26
 SHEET 26 OF 35

Profile MA-12



— April 18, 2016
— September 1, 2016

Fairhope Beach Management Plan
 Profile MA-12
 Fairhope, AL

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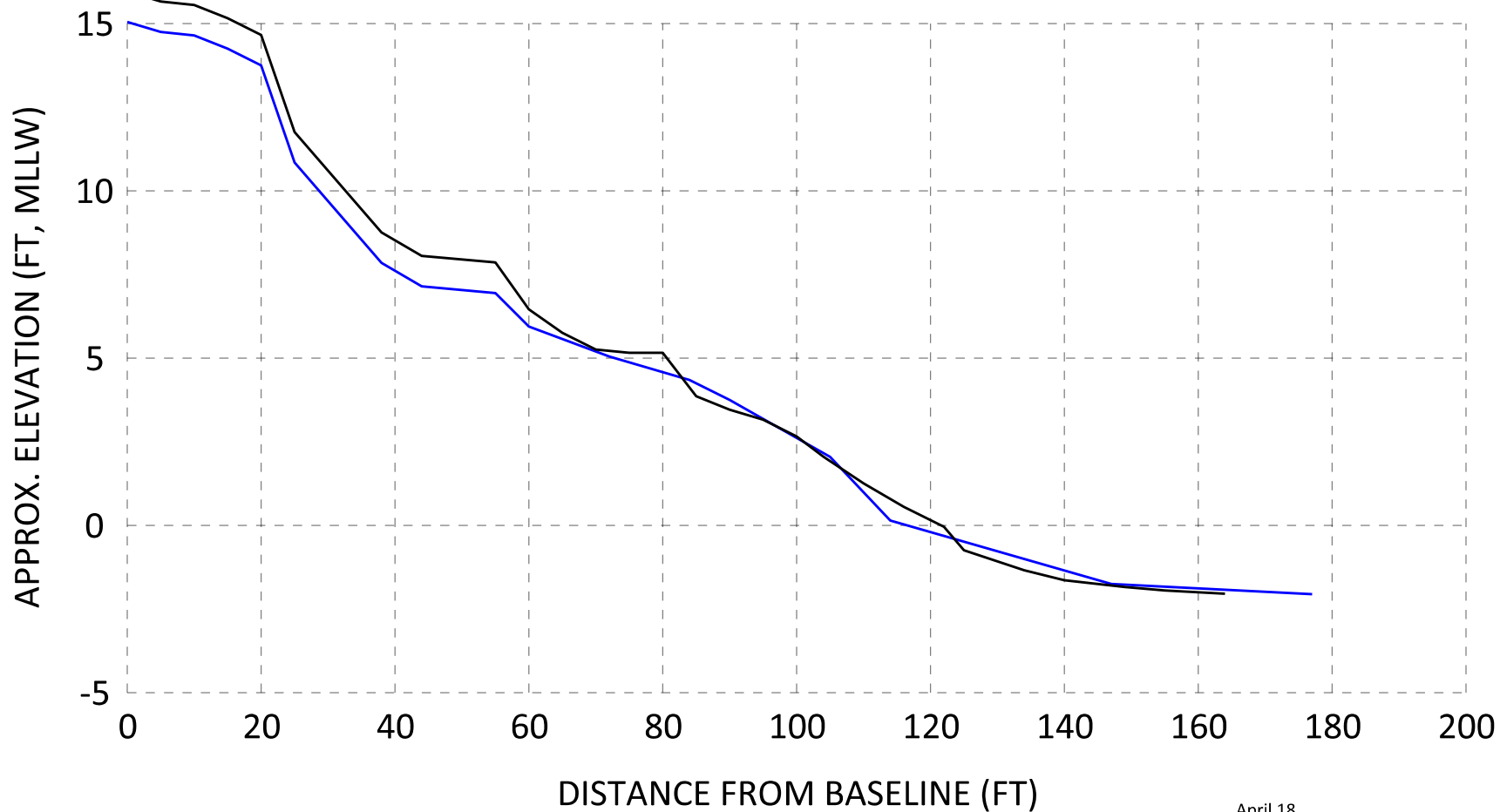


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SOUTH COAST ENGINEERS
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DRAWING NO.
X27
 SHEET 27 OF 35

Profile MA-13



— April 18, 2016
— September 1, 2016

Fairhope Beach Management Plan
 Profile MA-13
 Fairhope, AL

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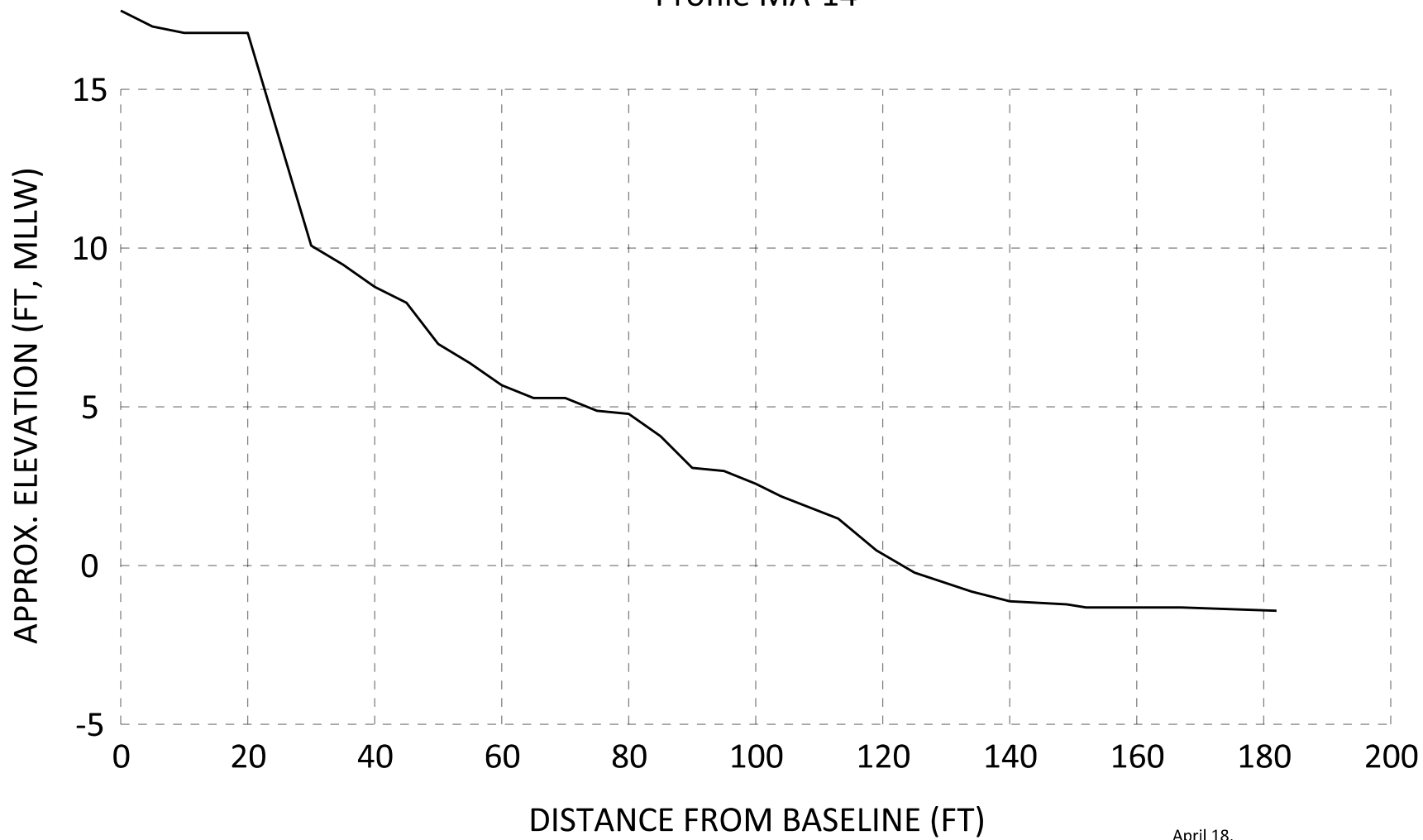


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SOUTH COAST ENGINEERS
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DRAWING NO.
X28
 SHEET 28 OF 35

Profile MA-14



— April 18, 2016
 — September 1, 2016

Fairhope Beach Management Plan
 Profile MA-14
 Fairhope, AL

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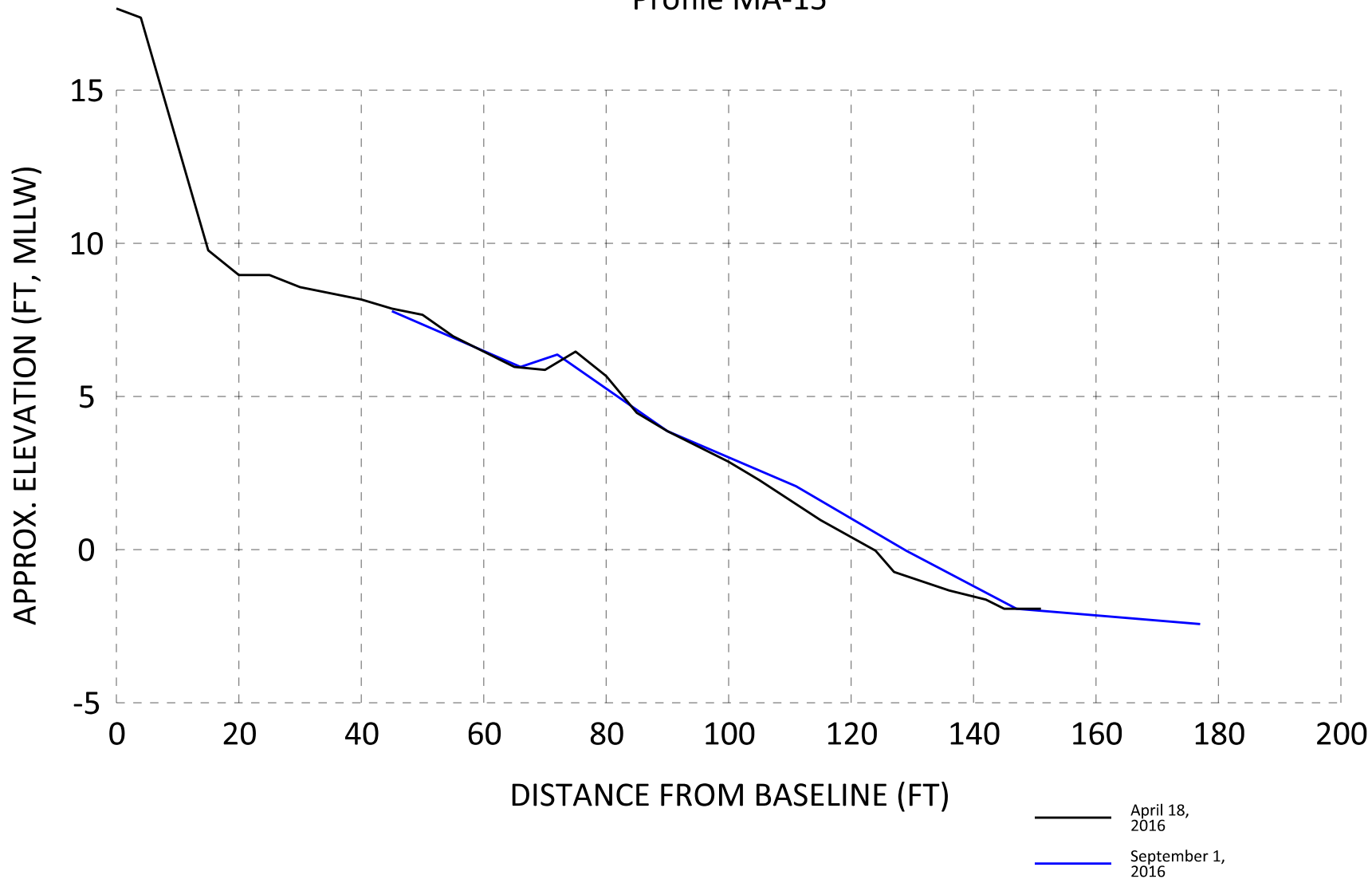


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SOUTH COAST ENGINEERS
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DRAWING NO.
X29
 SHEET 29 OF 35

Profile MA-15



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 Profile MA-15
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DATE: 9/2/16	SUBMITTED:

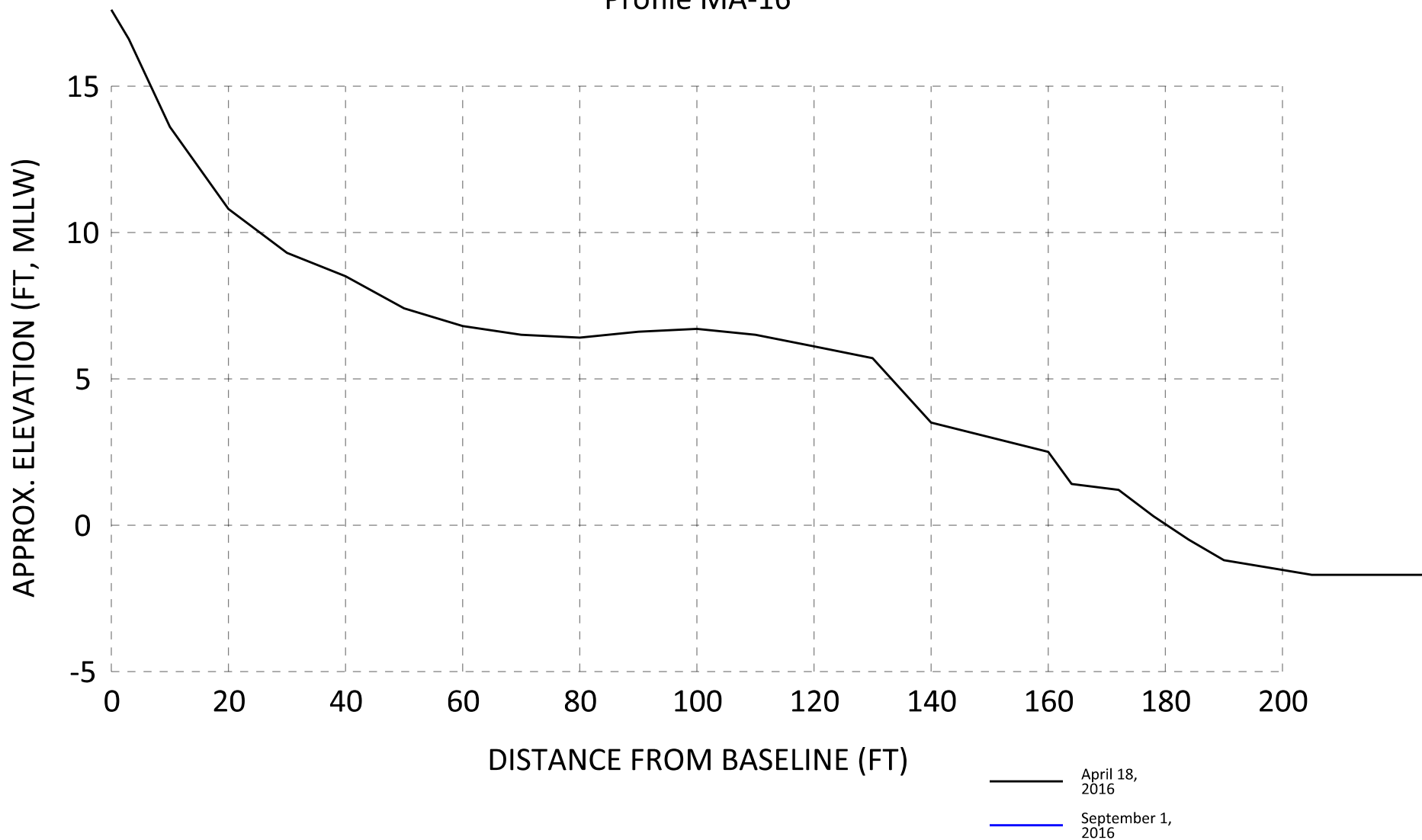


City of Fairhope

SOUTH COAST ENGINEERS
 Engineering for the Coast

DRAWING NO.
X30
 SHEET 30 OF 35

Profile MA-16



Fairhope Beach Management Plan
 Profile MA-16
 Fairhope, AL

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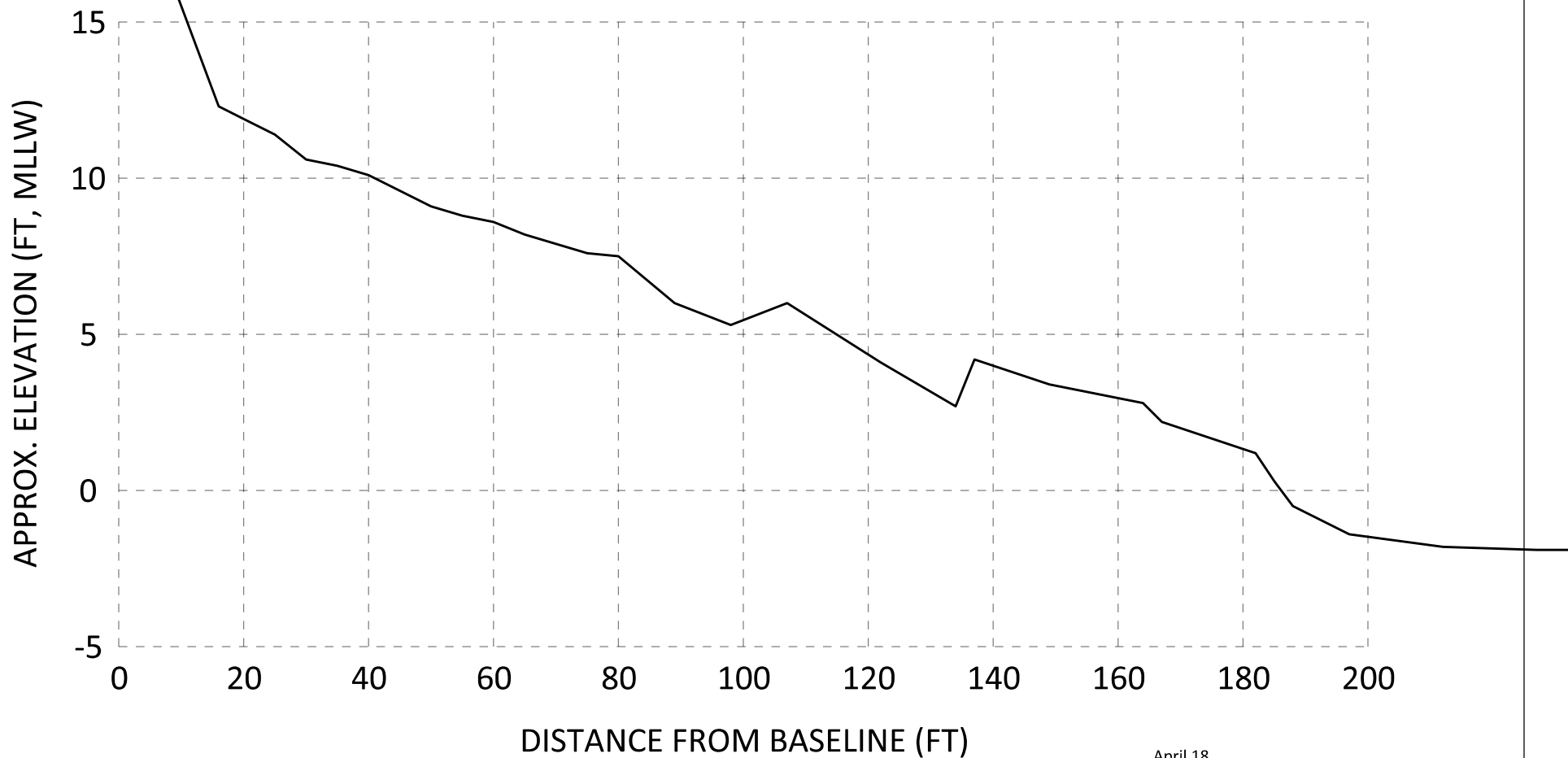




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X31
 SHEET 31 OF 35

Profile MA-17



 April 18, 2016
 September 1, 2016

Fairhope Beach Management Plan
 Profile MA-17
 Fairhope, AL

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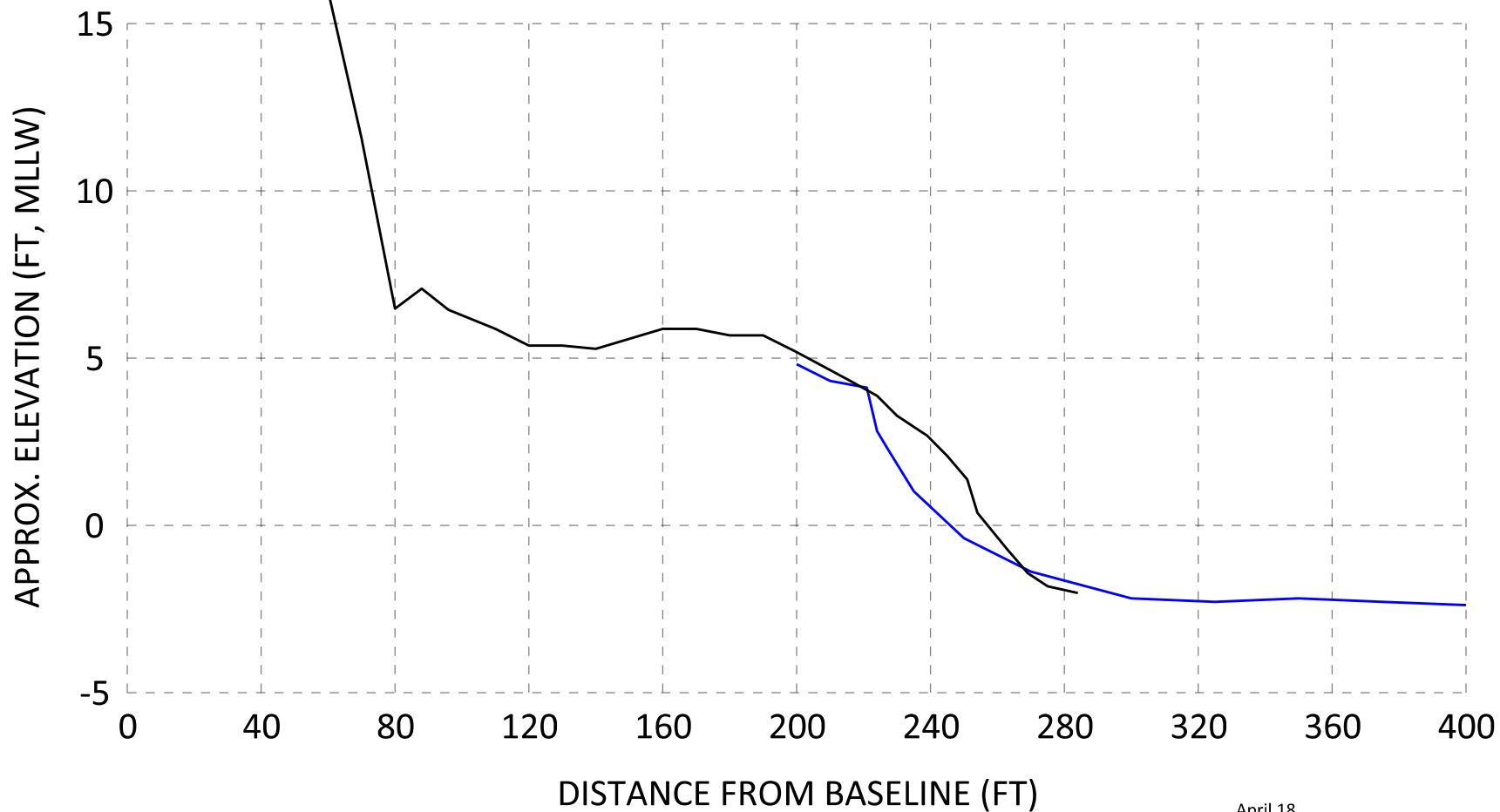


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X32
 SHEET 32 OF 35

Profile MA-18



— April 18, 2016
 — September 1, 2016

Fairhope Beach Management Plan
 Profile MA-18
 Fairhope, AL

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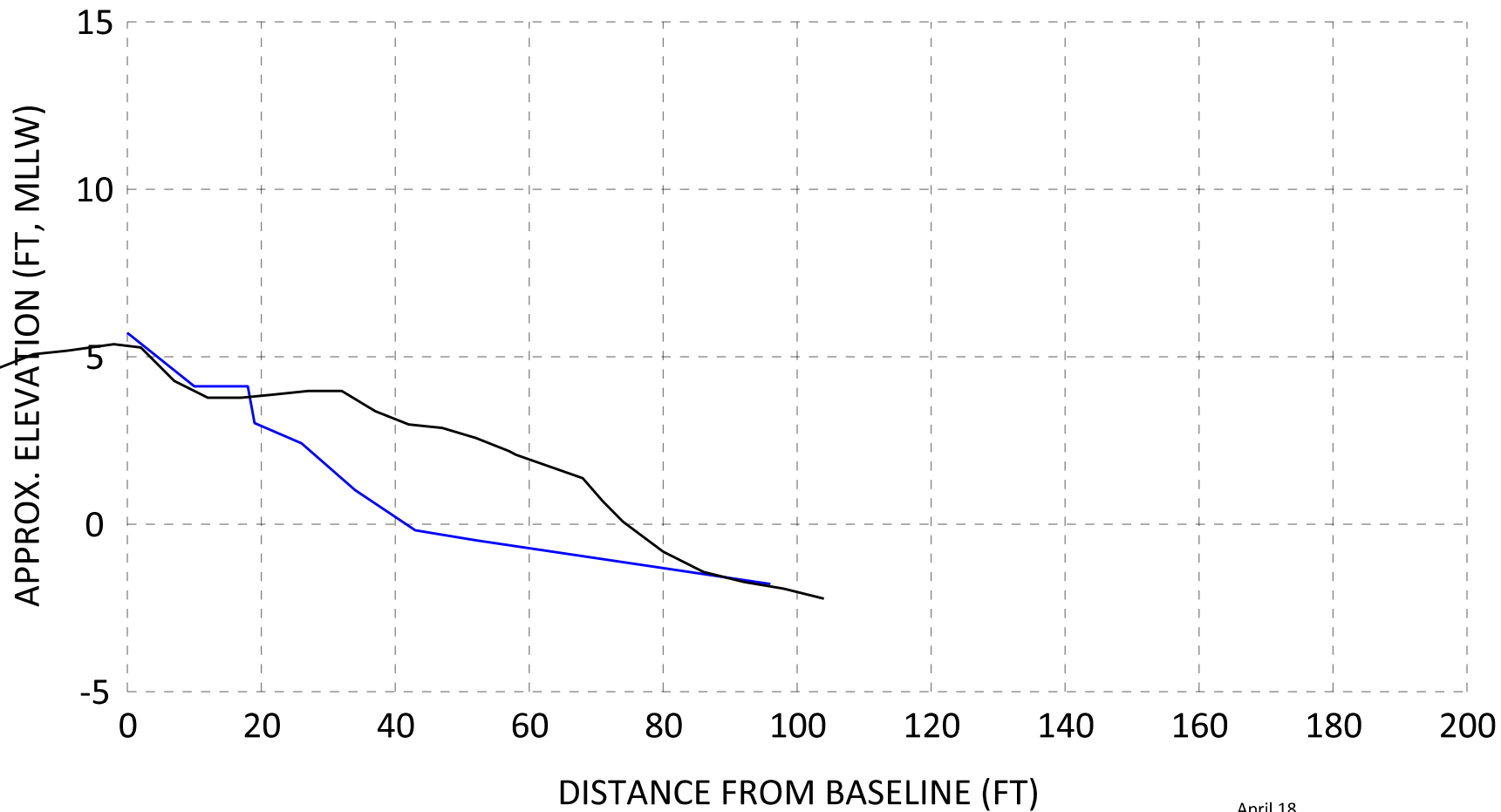


City of Fairhope

SOUTH COAST ENGINEERS
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X33
 SHEET 33 OF 35

Profile MA-19



— April 18, 2016
— September 1, 2016

Fairhope Beach Management Plan
 Profile MA-19
 Fairhope, AL

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DATE: 9/2/16	SUBMITTED:

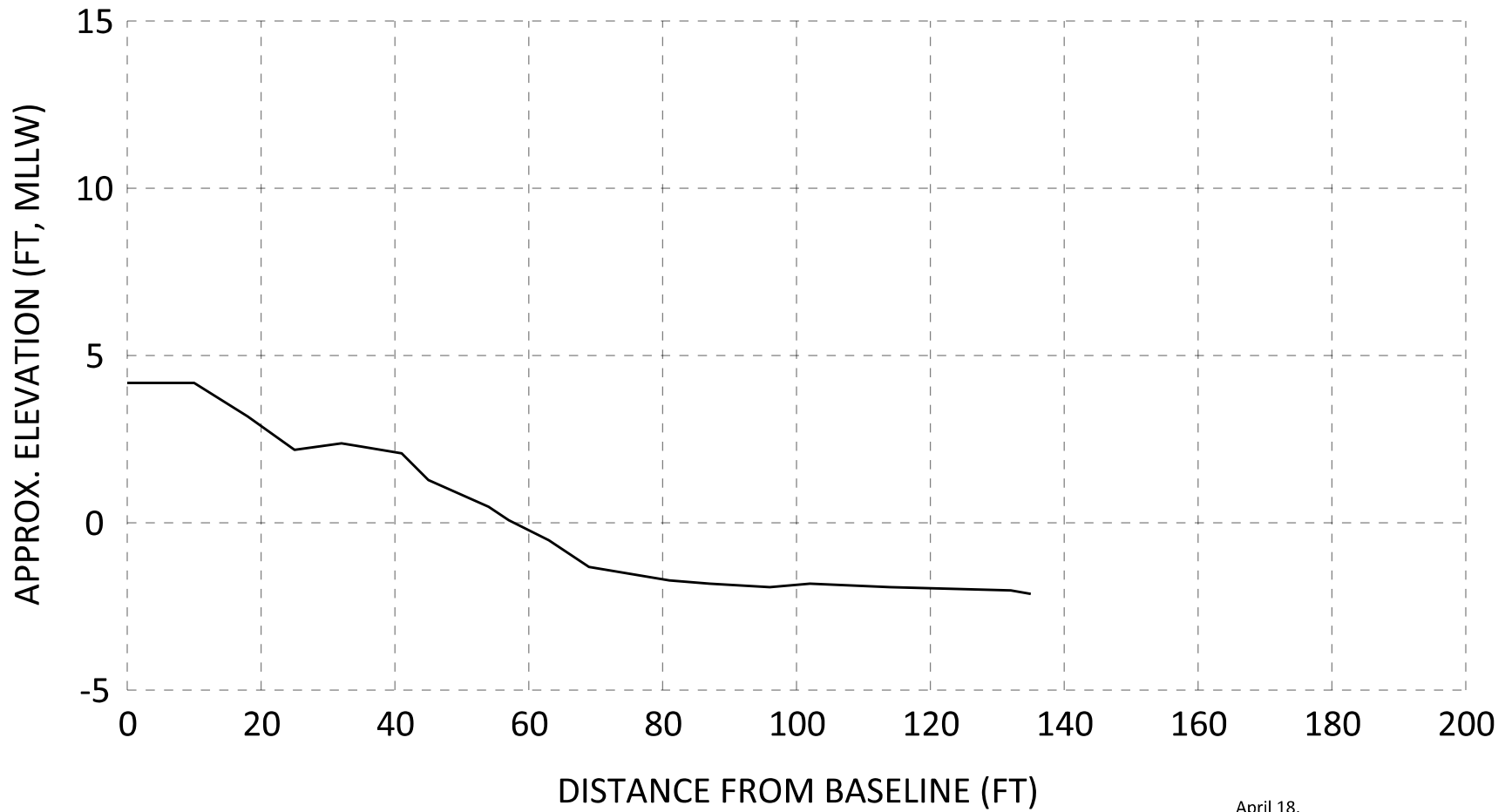




City of Fairhope

SOUTH COAST ENGINEERS
 Engineering for the Coast

DRAWING NO.
X34
 SHEET 34 OF 35

Profile MA-20



 April 18, 2016
 September 1, 2016

Fairhope Beach Management Plan
 Profile MA-20
 Fairhope, AL

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City of Fairhope

SOUTH COAST ENGINEERS
 Engineering for the Coast

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X35
 SHEET 35 OF 35