

FDEP Submittal
May 2024 Monitoring Survey
39 Onshore/Offshore Profiles
Broward County R-1 through R-24

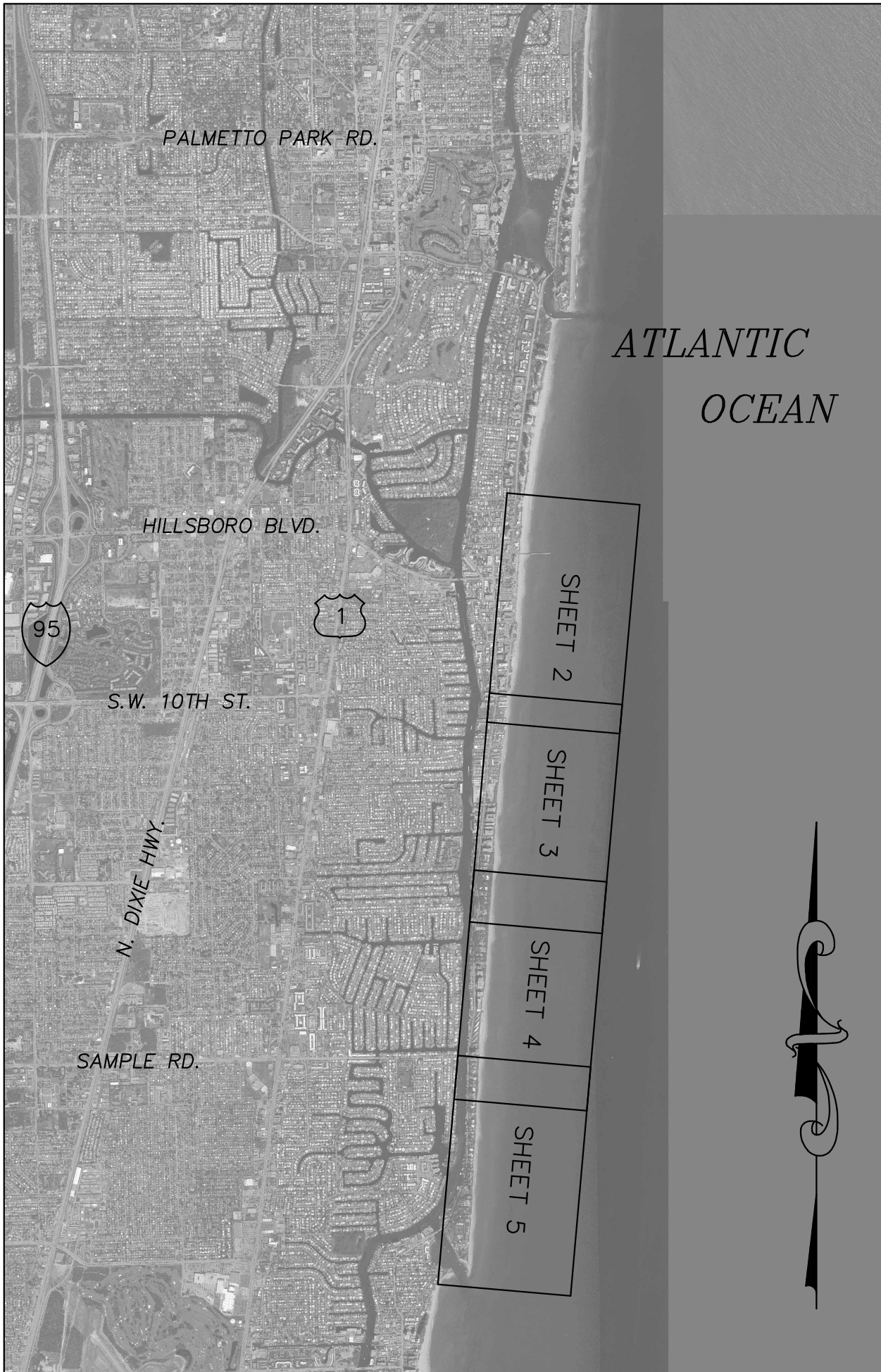
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Section 1

Survey Drawings

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LOCATION MAP
1" INCH = 4,000 FEET

TOPOGRAPHIC AND HYDROGRAPHIC SURVEY 39 ONSHORE/OFFSHORE BEACH PROFILES DEERFIELD BEACH/TOWN OF HILLSBORO BEACH BROWARD COUNTY, FLORIDA

—FOR—

COASTAL PROTECTION ENGINEERING

COMMISSION NO.: 35783-6

DATE: MAY 31, 2024

PREPARED BY:

Morgan & Eklund Inc.

PROFESSIONAL SURVEY CONSULTANTS

LB #4298



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PHONE: (772) 388-5364
FAX: (772) 388-3165

1557 NE 164TH ST.
UNIT 1
NORTH MIAMI BEACH, FL 33162
PHONE: (305) 403-9557



SURVEY NOTES:

- GRID COORDINATES SHOWN ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, NGS ADJUSTMENT OF 1990 (NAD 83/90).
- GRID COORDINATES ARE BASED ON MONUMENTS AS SHOWN IN THE CONTROL TABLE.
- ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ELEVATIONS ARE BASED ON MONUMENTS AS SHOWN IN THE CONTROL TABLE.
- TOPOGRAPHIC AND HYDROGRAPHIC INFORMATION DEPICTED ON THIS SURVEY REPRESENTS THE EXISTING CONDITIONS ON THE DATE OF THE FIELD SURVEY.
- WATER SURFACE ELEVATIONS WERE OBTAINED USING A TRIMBLE APPLANIX MV POS SURFMASTER REAL TIME KINEMATIC (RTK) DUAL FREQUENCY GPS RECEIVER WITH REAL TIME CORRECTIONS APPLIED FROM A TRIMBLE R-780 DUAL FREQUENCY BASE STATION OCCUPYING POINTS SHOWN IN THE CONTROL TABLE AND WERE VERIFIED TO A TIDE STAFF ELEVATED FROM MONUMENTS SHOWN IN THE CONTROL TABLE.
- HORIZONTAL AND VERTICAL POSITIONING UTILIZED A TRIMBLE APPLANIX MV POS SURFMASTER REAL TIME KINEMATIC (RTK) DUAL FREQUENCY GPS RECEIVER WITH REAL TIME CORRECTIONS APPLIED FROM A TRIMBLE R-780 DUAL FREQUENCY BASE STATION OCCUPYING NETWORK CONTROL POSITIONED USING MONUMENTATION AS SHOWN ON THE CONTROL TABLE.
- BATHYMETRIC INFORMATION DEPICTED ON THIS SURVEY WERE MEASURED USING AN ODOM E-20 DIGITAL FATHOMETER OPERATING AT 200 KHZ.
- AERIAL IMAGERY WAS TAKEN IN 2021 AND WAS PROVIDED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION
- AERIAL IMAGERY IS DISPLAYED HEREON FOR INFORMATION PURPOSES ONLY, NO PHOTOGRAPHIC ACCURACY IS IMPLIED BY THIS MAP.
- THIS SURVEY MAP IS NOT FULL AND COMPLETE WITHOUT THE ACCOMPANYING REPORT "POST CONSTRUCTION, MONITORING SURVEY DECEMBER 2023, ONSHORE/OFFSHORE PROFILES, DEERFIELD BEACH/THE TOWN OF HILLSBORO BEACH, BROWARD COUNTY, FLORIDA, FDEP PROFILES R-1 THROUGH R-24," DATED DECEMBER 11, 2023.
- NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OR DIGITAL/ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- UNDERGROUND UTILITIES AND IMPROVEMENTS NOT LOCATED.

SYMBOLS LEGEND:

- LOCATION OF PROFILE ZERO STATION
- ⊕ HORIZONTAL AND VERTICAL CONTROL MONUMENT

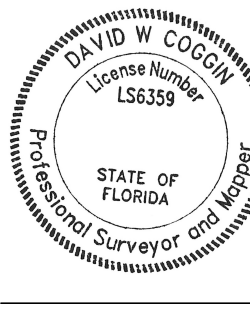
CONTROL TABULATION

MONUMENT	NAD 83/90 NORTHING	SPCS 0901 EASTING	NAVD 88 ELEVATION	NORTH AZ	US SURVEY FEET STAMPING
R-1	723425.97	959067.98	14.53	95*	R 1 BROWARD CO 74
R-2	722474.70	959029.39	12.94	95*	R 2 BROWARD CO 74
R-3	721451.46	958967.58	12.70	95*	C. D. E. R-3 RESET 1990
R-4	720442.11	958907.83	11.59	95*	R-4 BROW 1993
R-4.5	719991.81	958904.39	-----	95*	NO MONUMENT
R-5	719541.52	958900.96	14.12	95*	R 5 BROWARD CO 74
R-5+350	719199.21	958843.51	-----	95*	NO MONUMENT
R-5+550	718997.22	958810.68	-----	95*	NO MONUMENT
R-5+700	718848.90	958786.06	-----	95*	NO MONUMENT
R-6	718507.34	958729.40	13.22	95*	R-6 BROW 1993
R-6+200	718307.45	958719.44	-----	95*	NO MONUMENT
R-6+400	718107.55	958709.49	-----	95*	NO MONUMENT
R-6.5	717977.62	958703.01	-----	95*	NO MONUMENT
R-6+665	717842.70	958696.29	-----	95*	NO MONUMENT
R-6+750	717757.74	958692.06	-----	95*	NO MONUMENT
R-7	717444.77	958676.47	10.70	95*	R 7 BROWARD CO 74
R-7+500	717006.44	958638.12	---	95*	NO MONUMENT
R-8	716565.03	958597.09	11.71	95*	R 8 BROWARD CO 74
R-8.5	716049.25	958497.17	-----	95*	NO MONUMENT
R-9	715533.47	958397.24	14.06	95*	R-09 BROWARD CO RESET 1996
R-9.5	715029.08	958362.46	-----	95*	NO MONUMENT
R-10	714524.69	958327.69	12.91	95*	R 10 BROWARD CO 74
R-10.5	714025.59	958297.30	-----	95*	NO MONUMENT
R-11	713526.50	958266.91	17.22	95*	R-11 BROW 1993
R-11.5	713029.26	958256.44	-----	95*	NO MONUMENT
R-12	712532.02	958245.96	10.74	95*	R 12 BROWARD CO 74
R-12.5	712031.51	958197.64	-----	95*	NO MONUMENT
R-13	711530.99	958149.31	10.71	95*	R 13 BROWARD CO 74
R-14	710516.50	958099.57	10.03	95*	R-14 BROWARD CO 1992
R-15	709549.12	957998.33	14.79	95*	R 15 BROWARD CO 74
R-16	708542.83	957875.69	14.84	95*	R-16 BROW 1993
R-17	707561.11	957846.72	13.85	95*	R 17 BROWARD CO 74
R-18	706535.11	957806.49	10.25	95*	R 18 BROWARD CO 74
R-19	705540.91	957749.02	10.36	95*	R 19 BROWARD CO 74
R-20	704530.16	957702.16	11.31	95*	R 20 BROWARD CO 74
T-21	703547.48	957637.61	19.84	95*	BRO T 21 76
T-22	702172.32	957545.90	20.45	95*	BRO T 22 76
R-23	701514.60	957519.14	15.50	95*	R 23 BROWARD CO 74
R-24	700920.95	957477.98	11.48	95*	R 24 BROWARD CO 74
202	718060.52	958756.56	13.69	---	LB 4298
204	718163.39	958766.14	13.12	---	LB 4298
205	701102.22	957474.94	12.00	---	LB 4298
206	701111.52	957455.99	11.75	---	LB 4298
DA03	717087.57	958273.00	12.47	---	86 92 DA03
DA04	715278.48	958059.65	13.64	---	86 92 DA04
DA06	704154.31	957445.84	2.75	---	86 92 DA06
872 2859 5			3.29	---	ND 5 1973
Y 311			9.63	---	Y 311 1970

SHEET INDEX

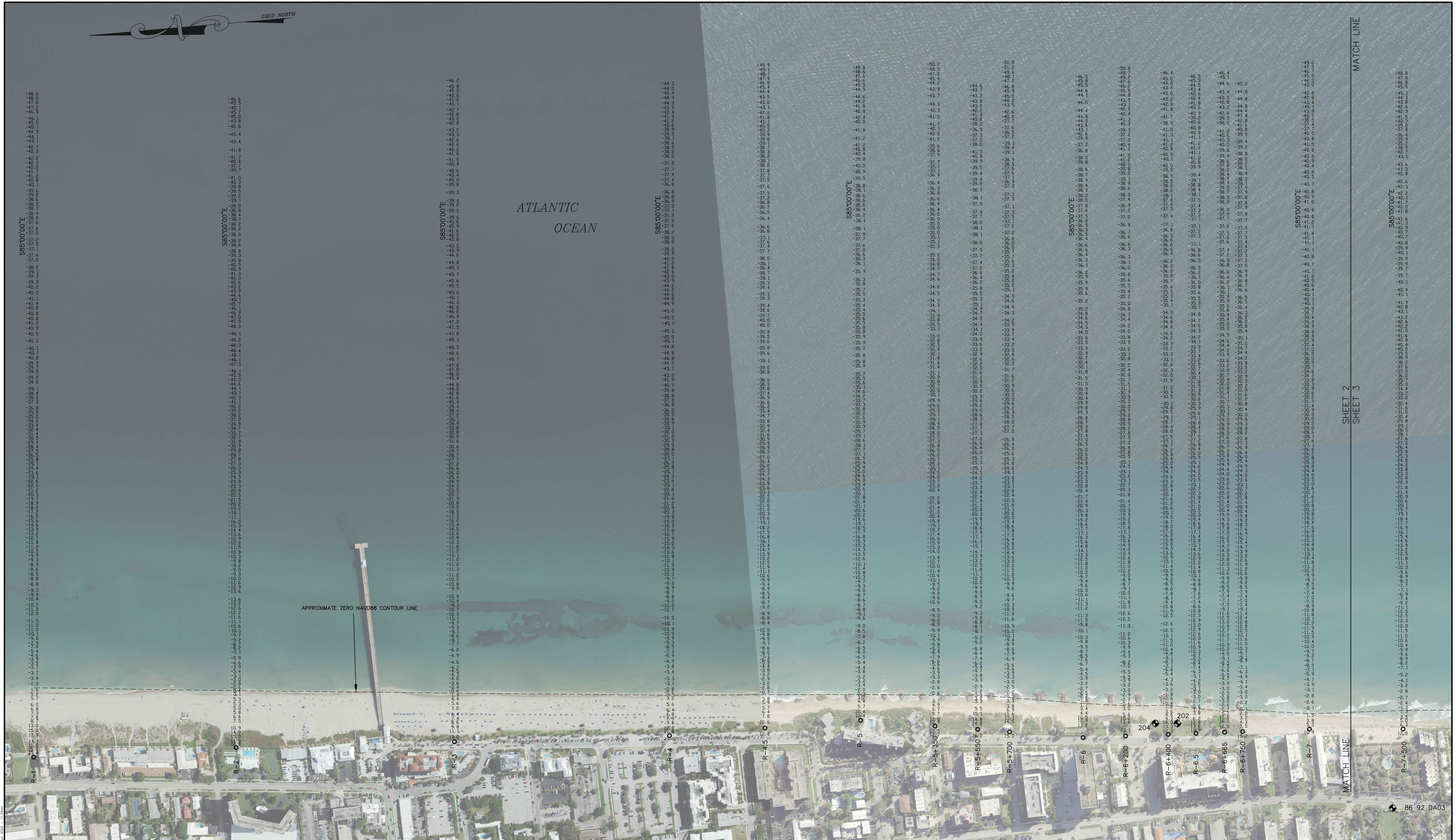
SHEET NO.	DESCRIPTION
1	COVER SHEET
2-5	DATA POINT DRAWINGS
6-10	PROFILE VIEW

CERTIFICATE OF SURVEYOR - I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS IN ACCORDANCE WITH A RECENT FIELD SURVEY MADE UNDER MY DIRECTION, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS AND MAPPERS IN CHAPTER 46-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

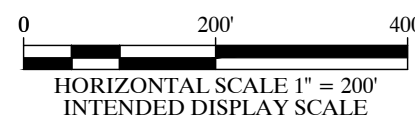


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David W Coggin
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dnQualifier=A01410C
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011EB6, cn=David W
Coggin
Date: 2024.06.13
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FIELD BOOKS: BROWARD 70, PAGES 1-14



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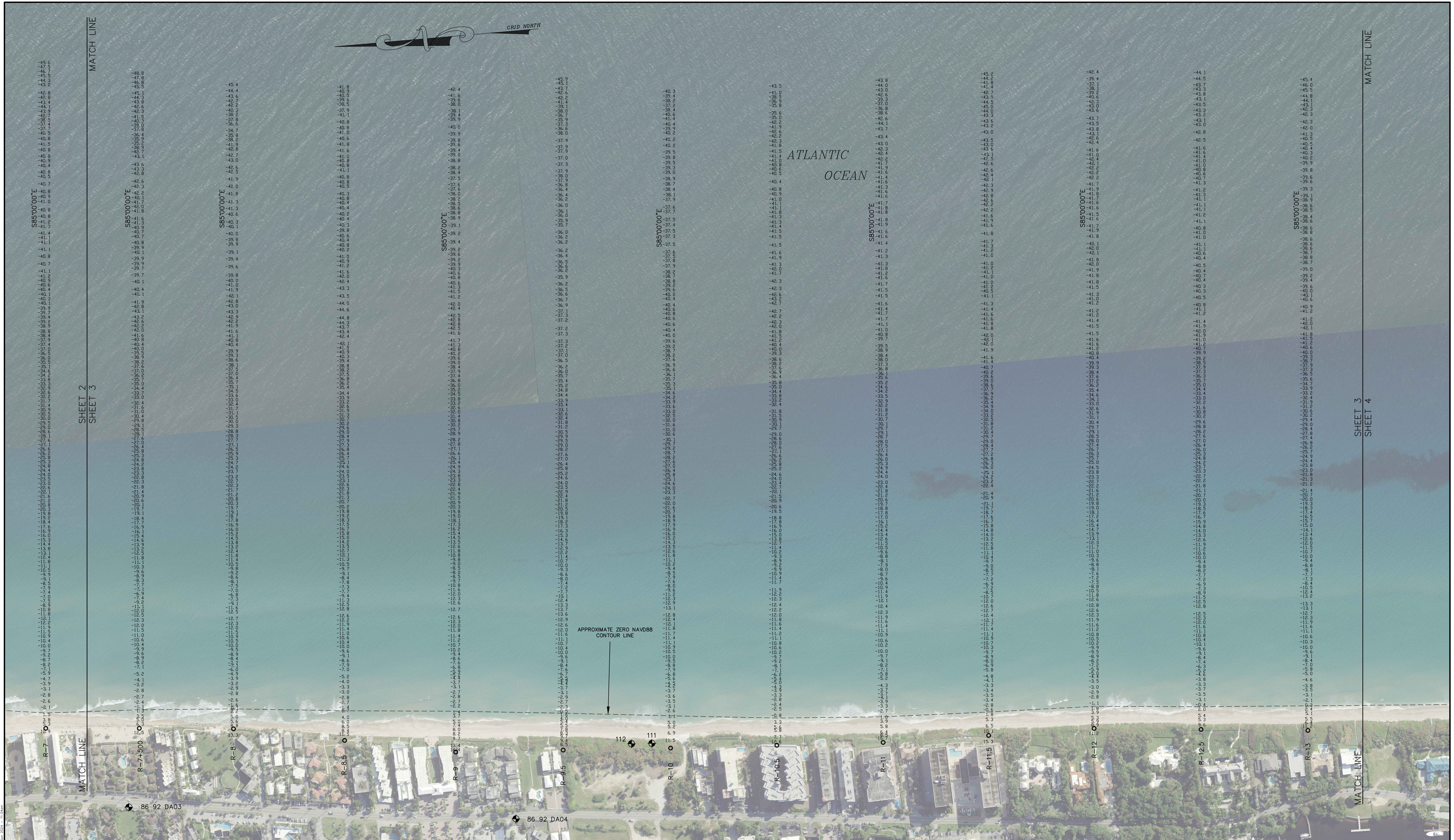
SEE SHEET 1 FOR SURVEY NOTES



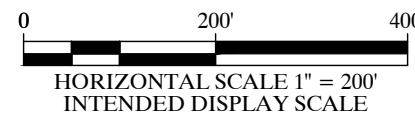
Morgan & Eklund Inc.
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PHONE: (305) 403-9557
LB #4298

ELEVATION DATA (NAVD 88)
TOPOGRAPHIC AND HYDROGRAPHIC SURVEY
39 ONSHORE/OFFSHORE BEACH PROFILES
DEERFIELD BEACH/TOWN OF HILLSBORO BEACH
BROWARD COUNTY, FLORIDA
FOR COASTAL PROTECTION ENGINEERING

DRAWN BY CAG	CHECKED BY DWC	FIELD BOOK PAGE NO.	BRO 70 1-14	DATE OF SURVEY 5/31/24	COMMISSION NO. 35783-6
SCALE 1" = 200'					DATE 6/11/24
SHEET 2 OF 10					



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SEE SHEET 1 FOR SURVEY NOTES



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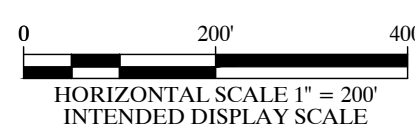
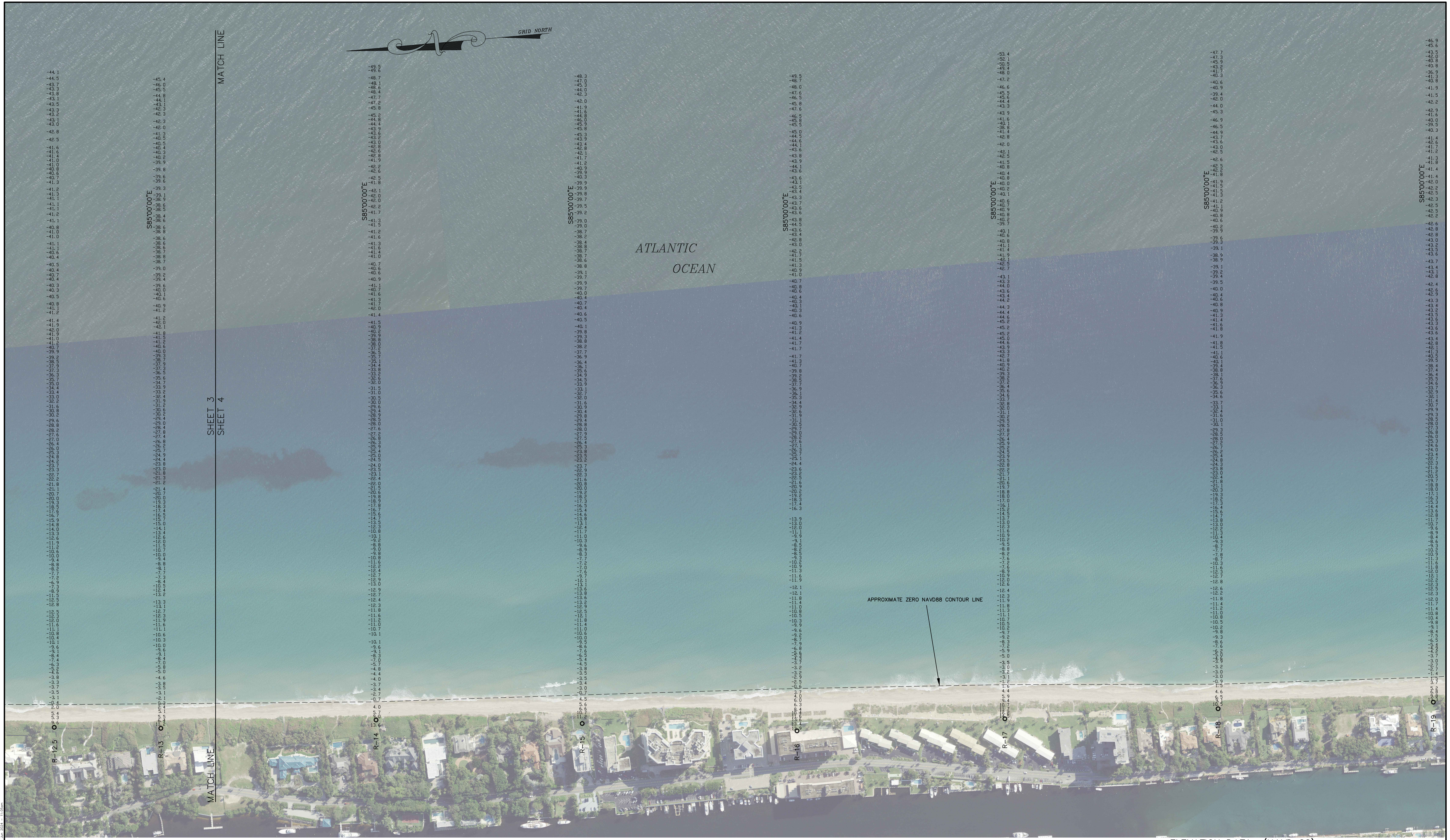
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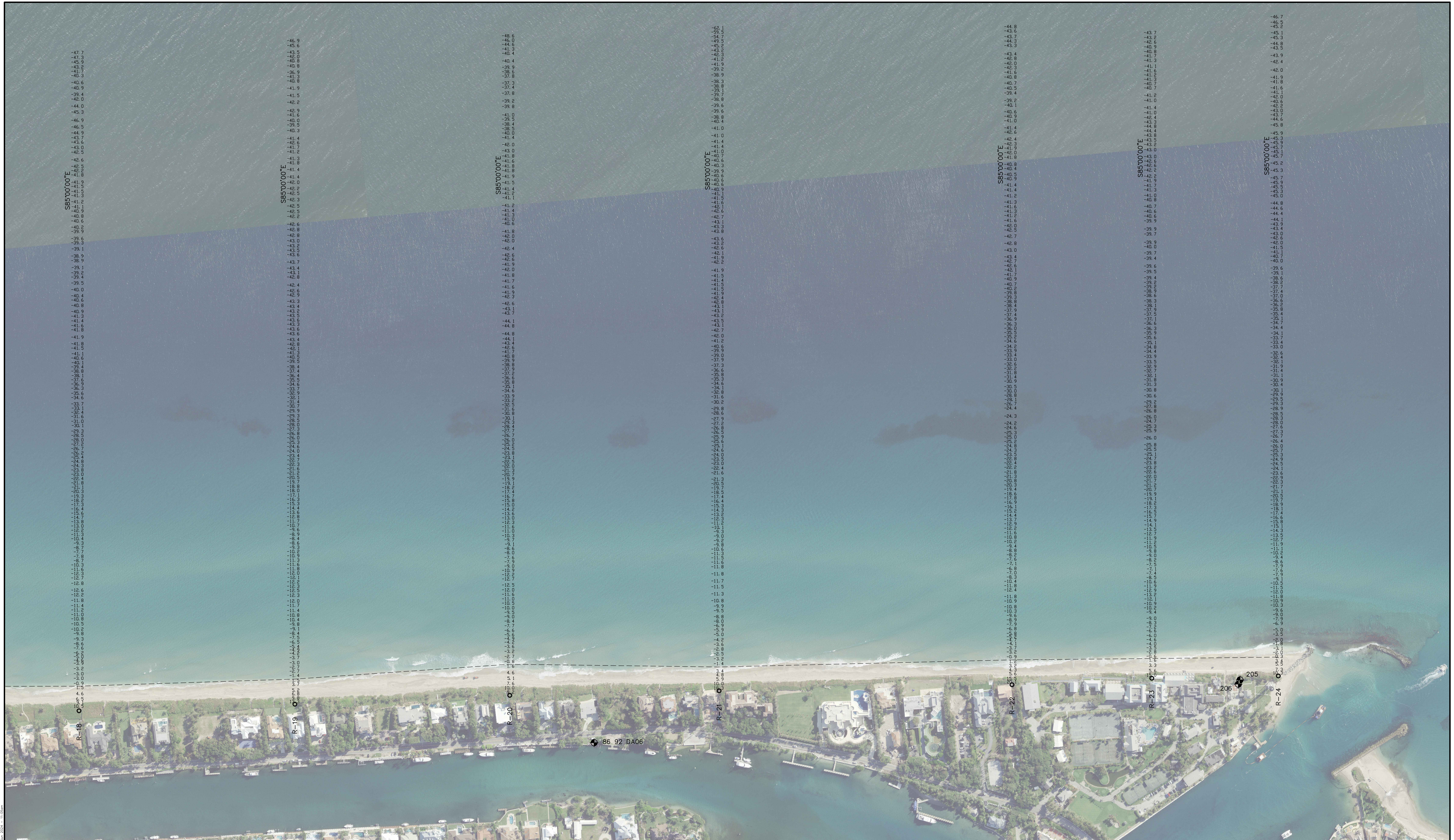
LB #4298

ELEVATION DATA (NAVD 88)					COMMISSION NO.
TOPOGRAPHIC AND HYDROGRAPHIC SURVEY					35783-6
39 ONSHORE/OFFSHORE BEACH PROFILES					SCALE
DEERFIELD BEACH/TOWN OF HILLSBORO BEACH					1" = 200'
BROWARD COUNTY, FLORIDA					DATE
FOR COASTAL PROTECTION ENGINEERING					6/11/24
DRAWN BY	CHECKED BY	FIELD BOOK	BRO 70	DATE OF SURVEY	SHEET 3 OF 10
CAG	DWC	PAGE NO.	1-14	5/31/24	



SEE SHEET 1 FOR SURVEY NOTES

 Morgan & Eklund Inc. PROFESSIONAL SURVEY CONSULTANTS		ELEVATION DATA (NAVD 88) TOPOGRAPHIC AND HYDROGRAPHIC SURVEY 39 ONSHORE/OFFSHORE BEACH PROFILES DEERFIELD BEACH/TOWN OF HILLSBORO BEACH BROWARD COUNTY, FLORIDA FOR COASTAL PROTECTION ENGINEERING				COMMISSION NO. 35783-6			
		DRAWN BY CAG				CHECKED BY DWC	FIELD BOOK PAGE NO.	BRO 70 1-14	DATE OF SURVEY 5/31/24
4909 US HIGHWAY #1 VERO BEACH, FL 32967 PHONE: (772) 388-5364 FAX: (772) 388-3165		1557 NE. 164TH STREET UNIT 1 NORTH MIAMI BEACH, FL 33162 PHONE: (305) 403-9557		DATE 6/11/24					



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0 200' 400'
HORIZONTAL SCALE 1" = 200'
INTENDED DISPLAY SCALE

SEE SHEET 1 FOR SURVEY NOTES



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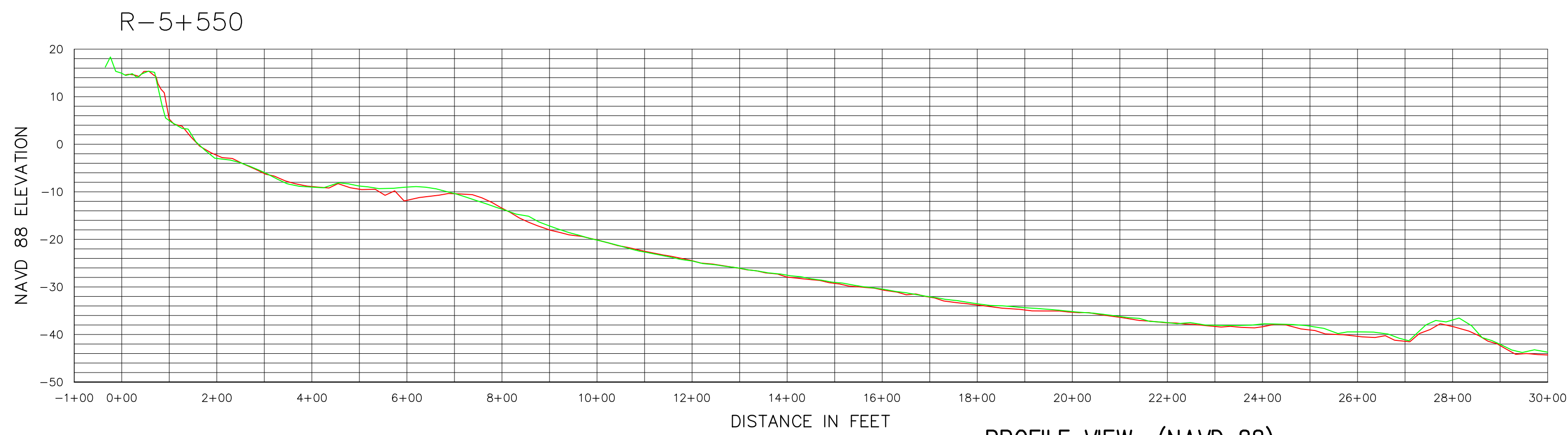
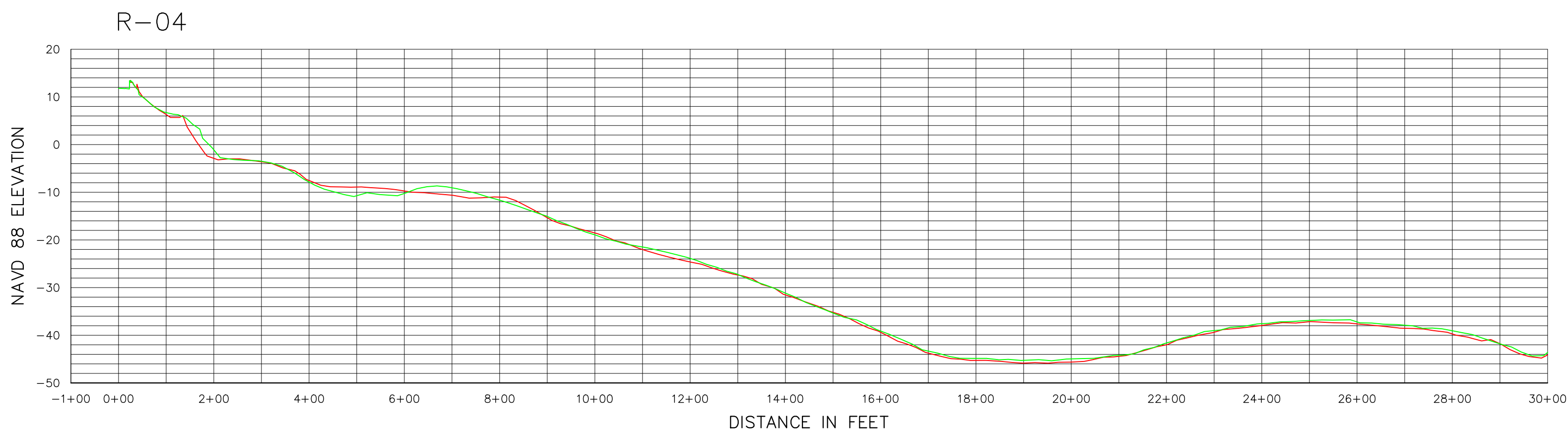
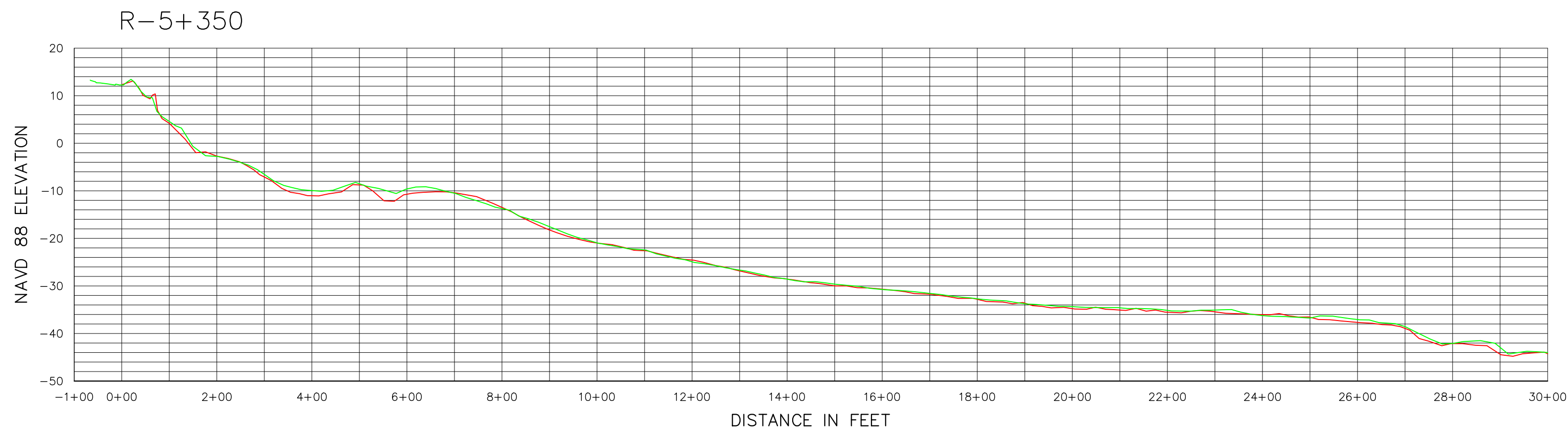
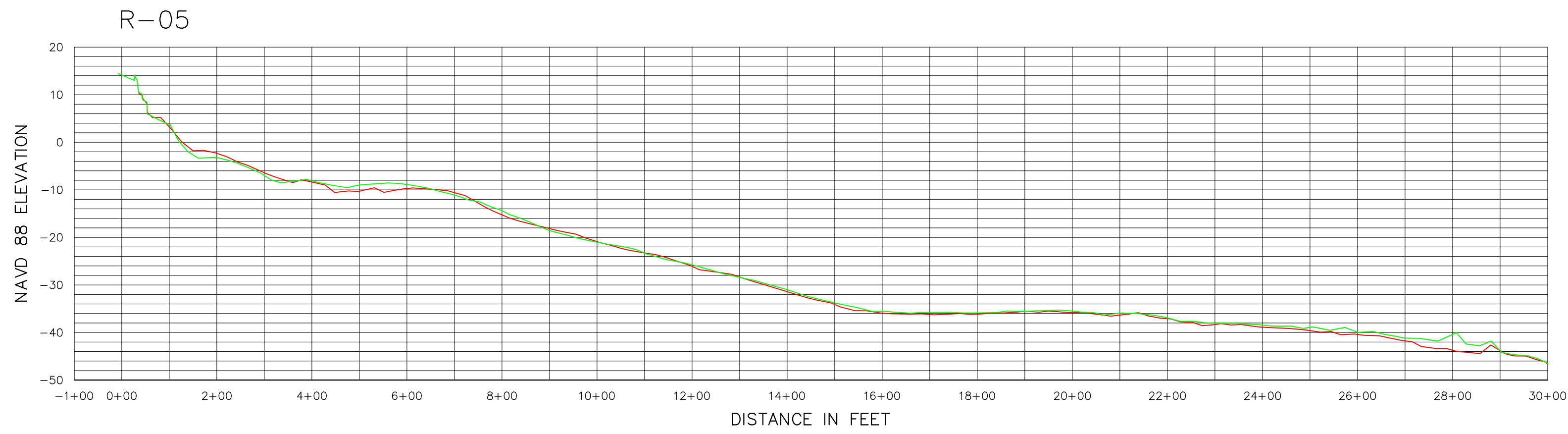
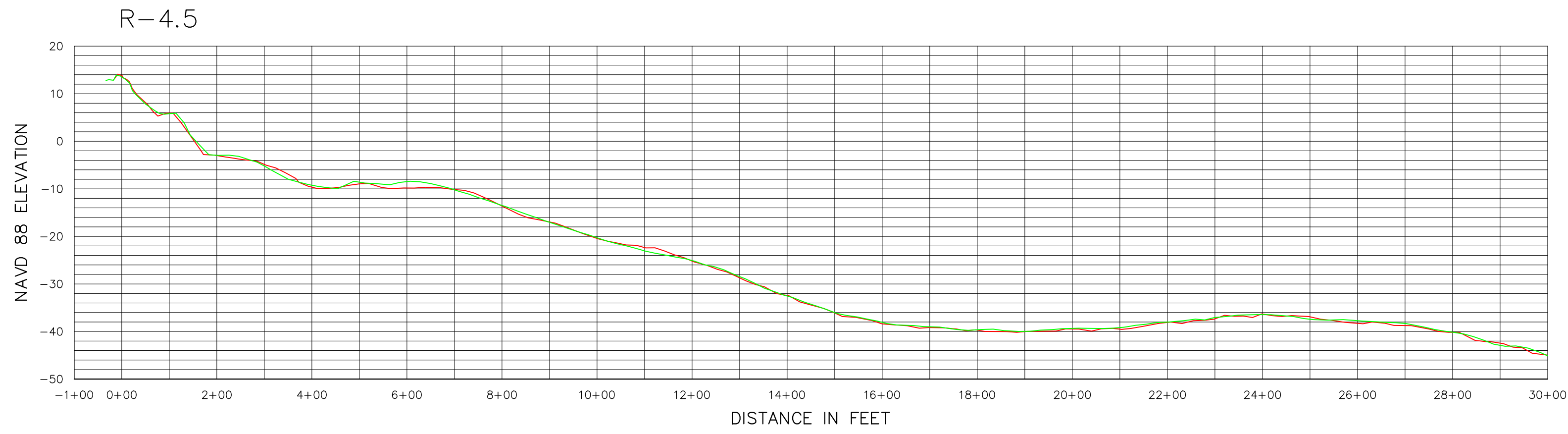
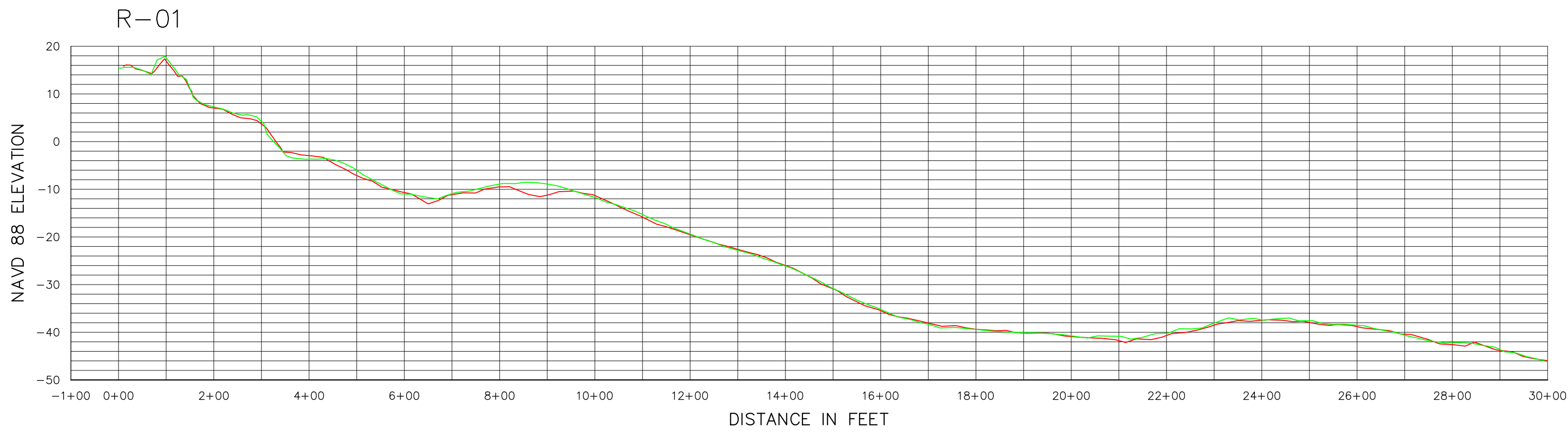
1557 NE. 164TH STREET UNIT I
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LB #4298

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39 ONSHORE/OFFSHORE BEACH PROFILES
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BROWARD COUNTY, FLORIDA
FOR COASTAL PROTECTION ENGINEERING

DRAWN BY CAG	CHECKED BY DWC	FIELD BOOK PAGE NO.	BRO 70 1-14	DATE OF SURVEY 5/31/24
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COMMISSION NO. 35783-6
SCALE 1" = 200'
DATE 6/11/24
SHEET 5 OF 10



0 200' 400'

HORIZONTAL SCALE 1" = 200'

INTENDED DISPLAY SCALE

0 20' 40'

VERTICAL SCALE 1" = 20'

INTENDED DISPLAY SCALE

LEGEND

— DECEMBER 2023

— MAY 2024



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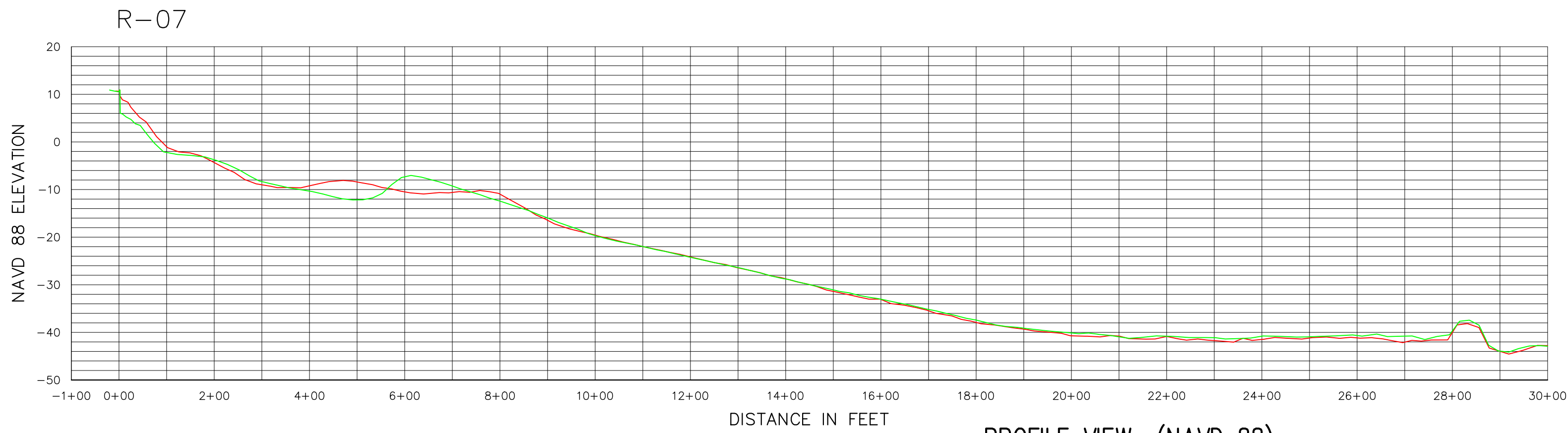
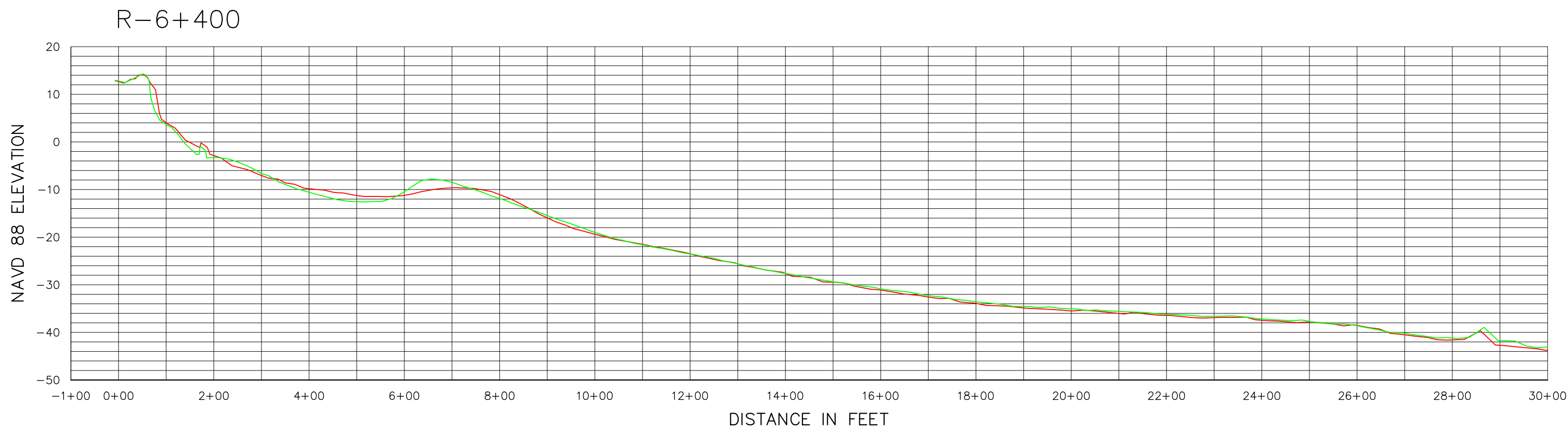
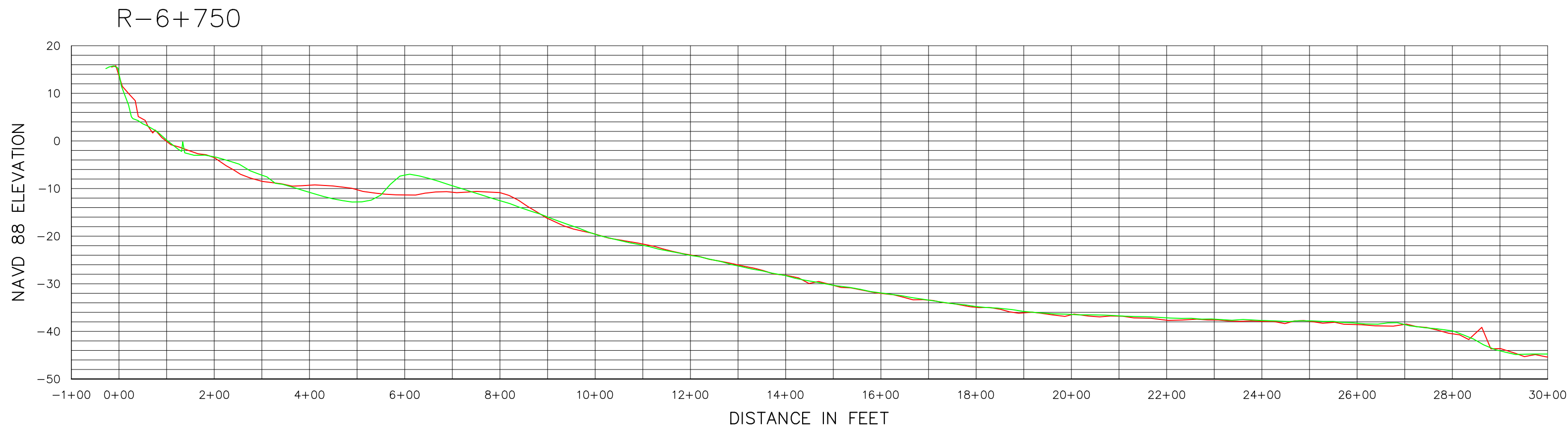
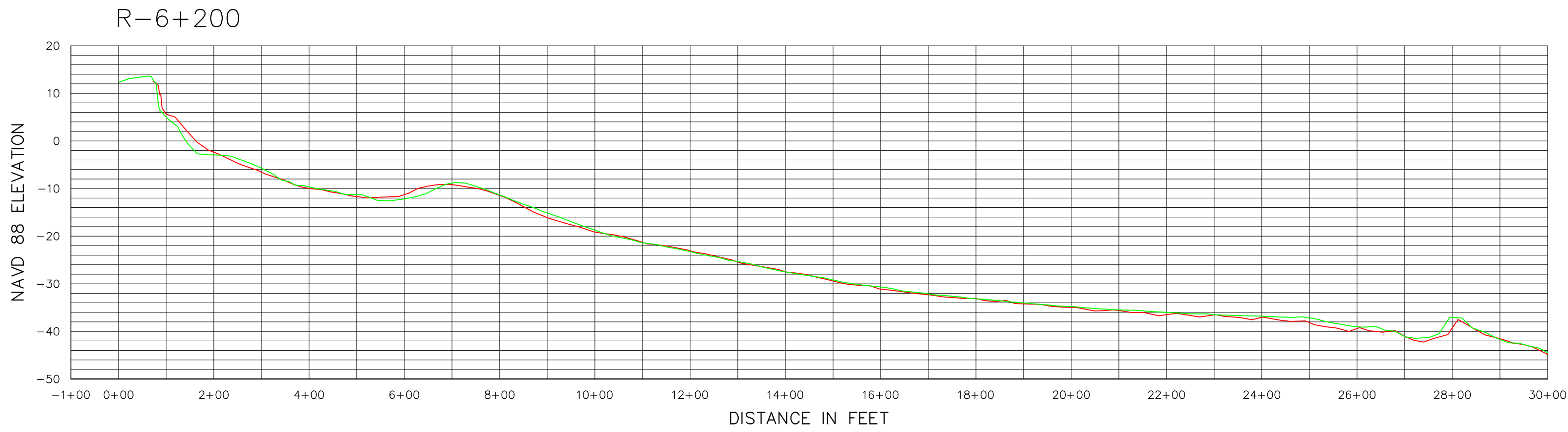
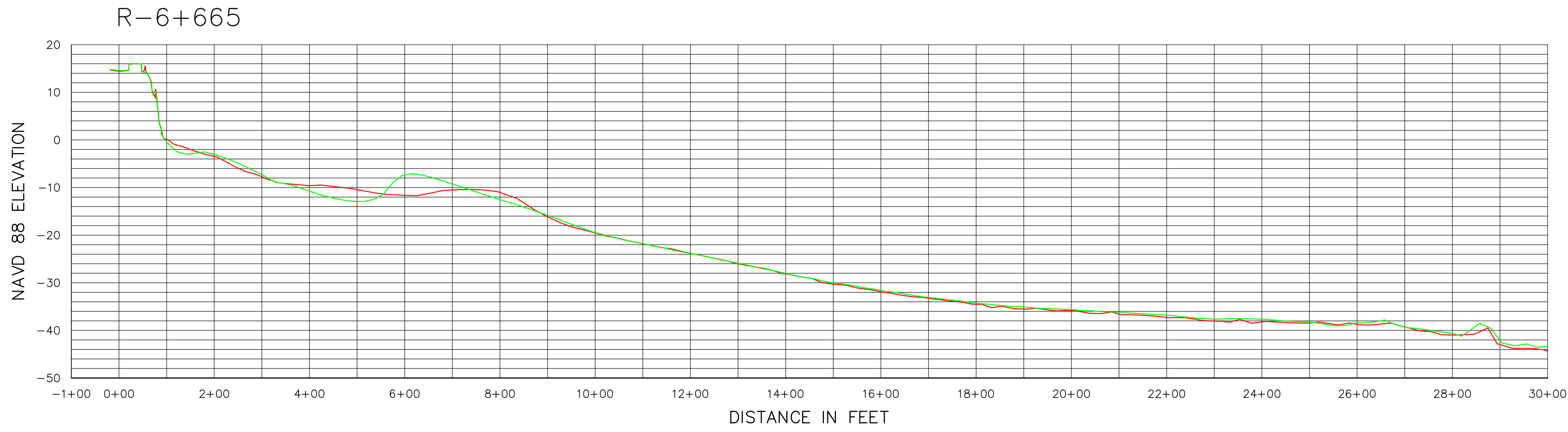
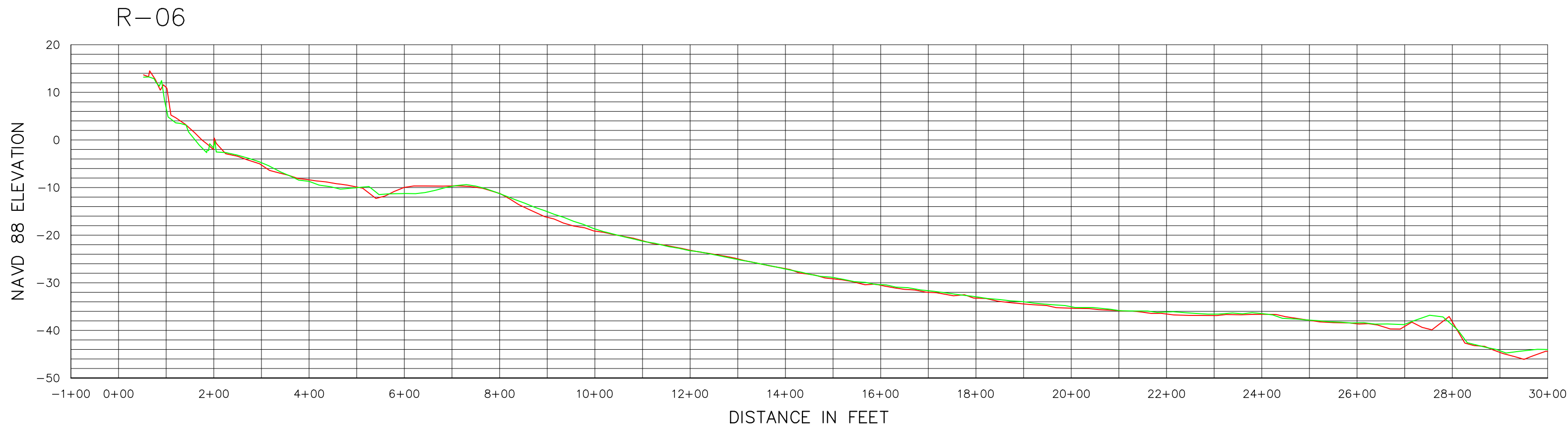
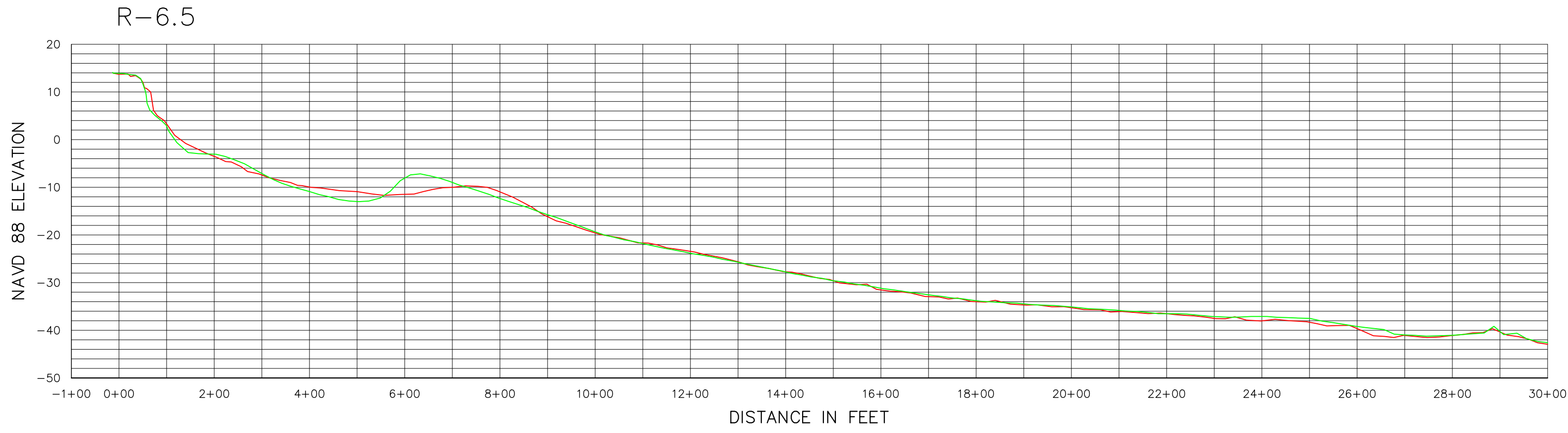
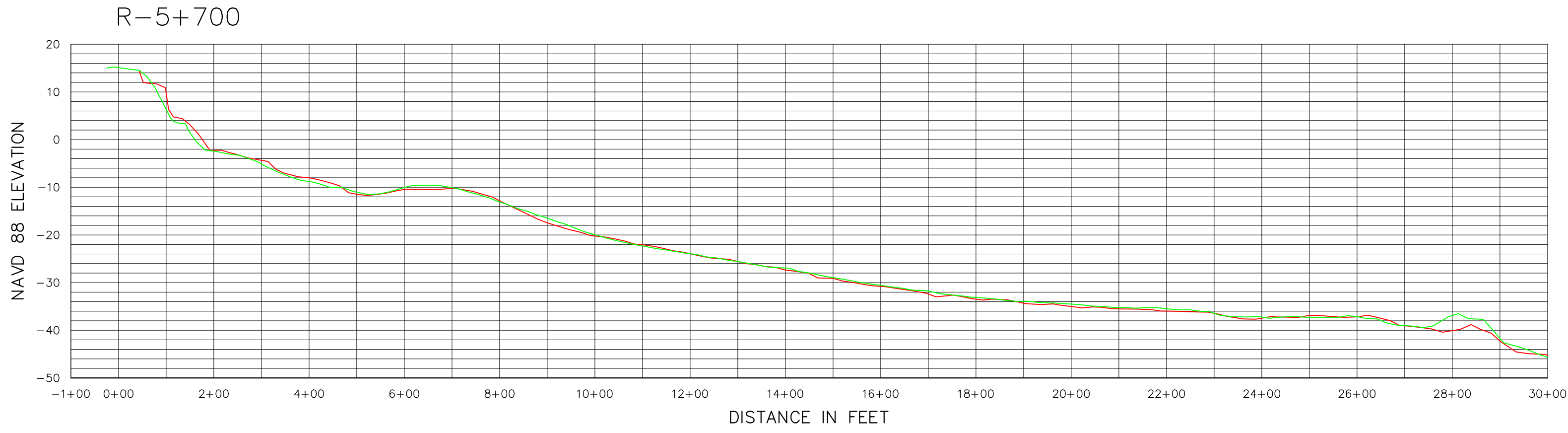
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PROFILE VIEW (NAVD 88)				COMMISSION NO. 35783-6	
TOPOGRAPHIC AND HYDROGRAPHIC SURVEY				SCALE AS SHOWN	
39 ONSHORE/OFFSHORE BEACH PROFILES				DATE 6/11/24	
DEERFIELD BEACH/TOWN OF HILLSBORO BEACH				SHEET 6 OF 10	
BROWARD COUNTY, FLORIDA					
FOR COASTAL PROTECTION ENGINEERING					
DRAWN BY CAG	CHECKED BY DWC	FIELD BOOK PAGE NO.	BRO 70 1-14	DATE OF SURVEY 5/31/24	

SEE SHEET 1 FOR SURVEY NOTES



0 200' 400'

HORIZONTAL SCALE 1" = 200'

INTENDED DISPLAY SCALE

0 20' 40'

VERTICAL SCALE 1" = 20'

INTENDED DISPLAY SCALE

LEGEND

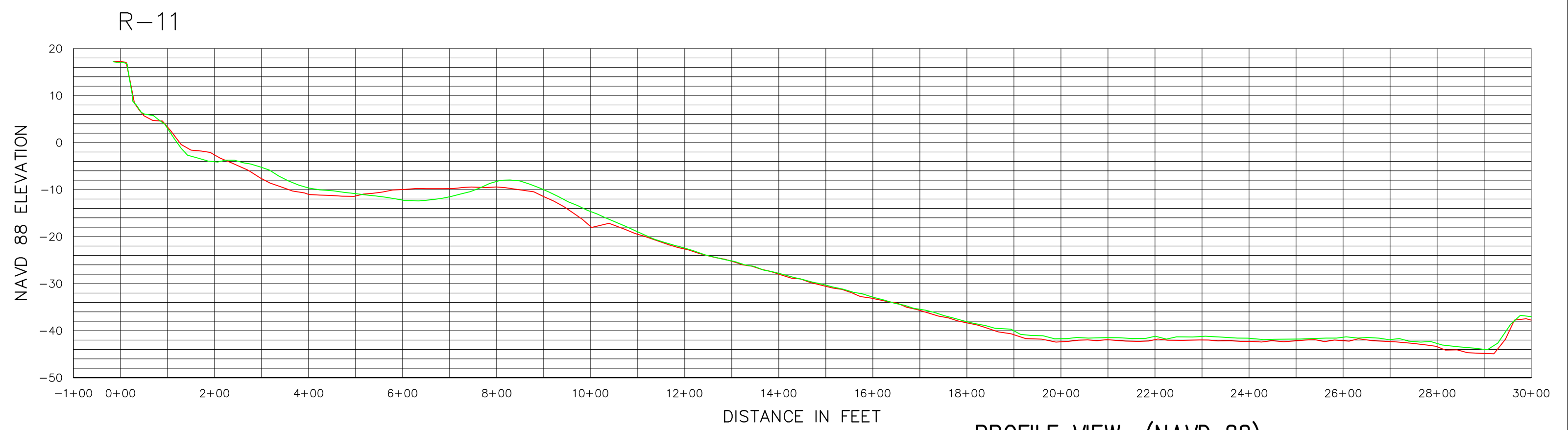
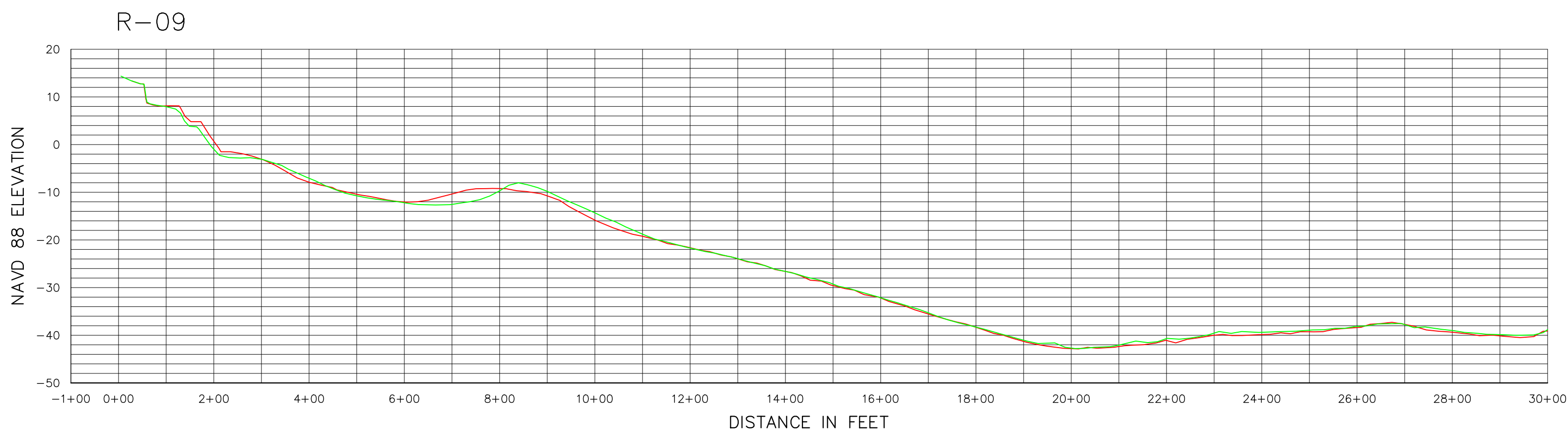
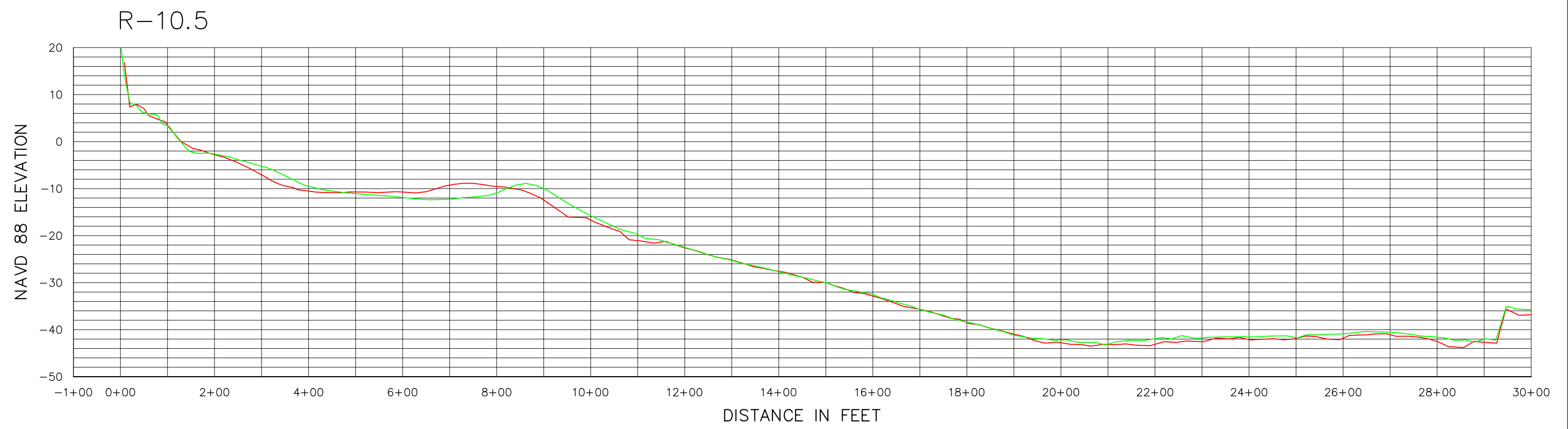
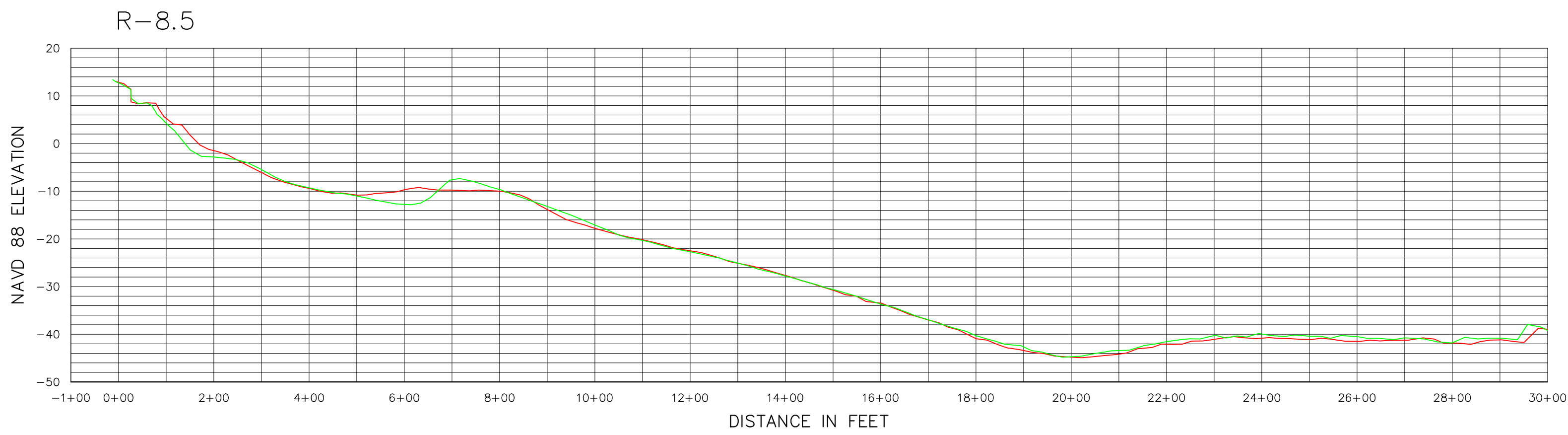
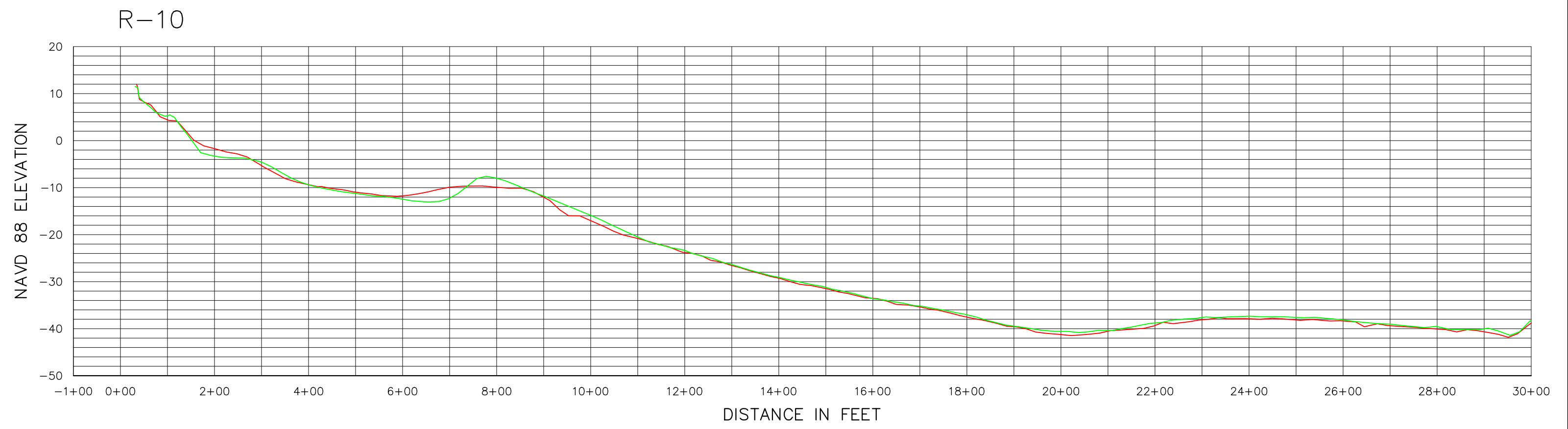
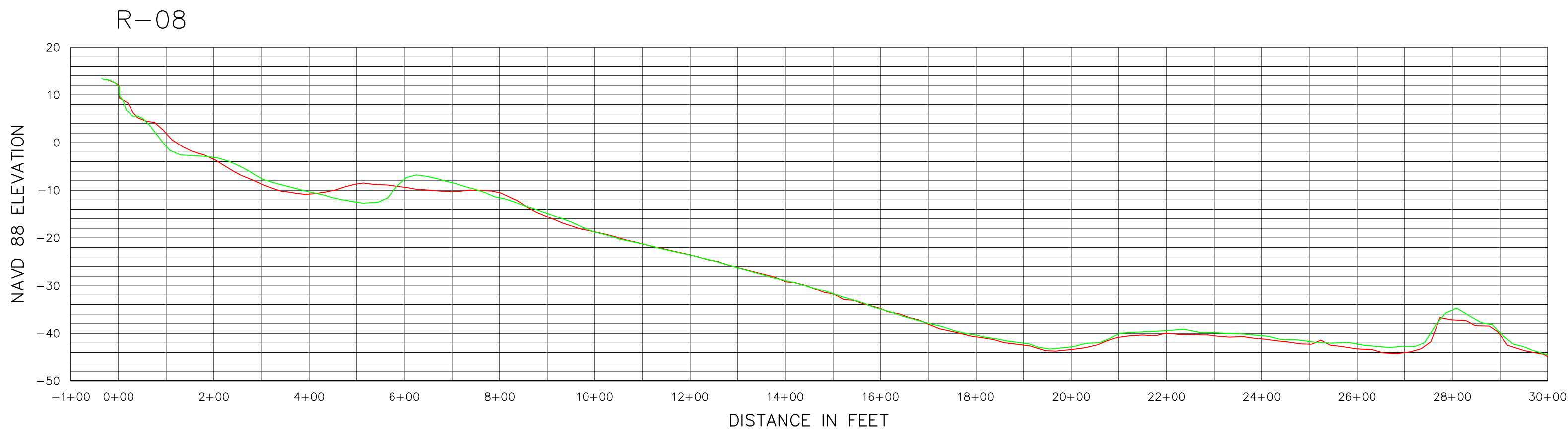
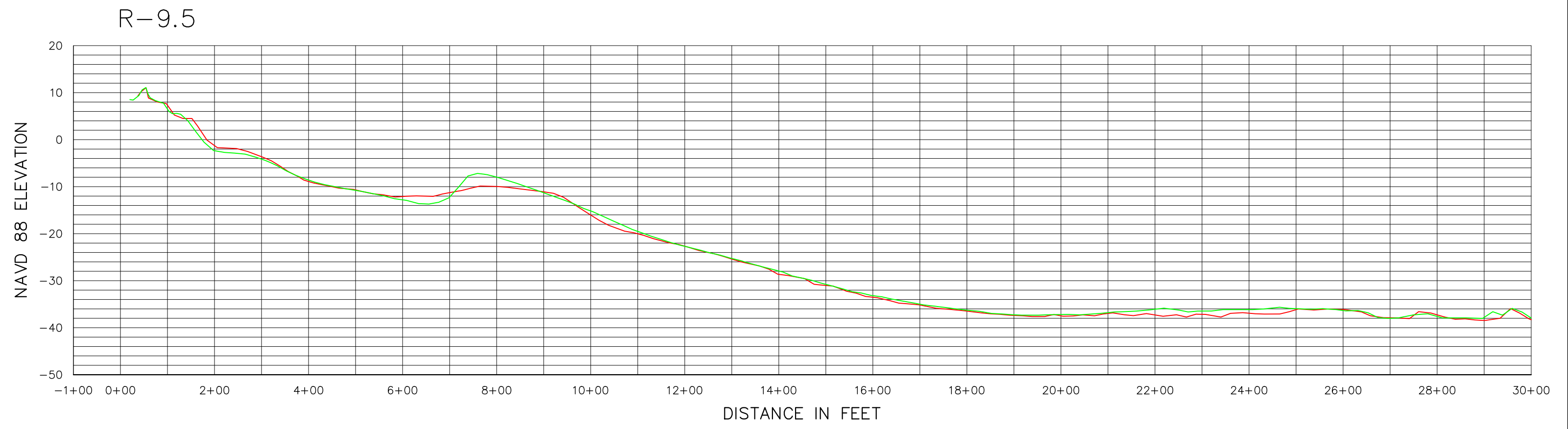
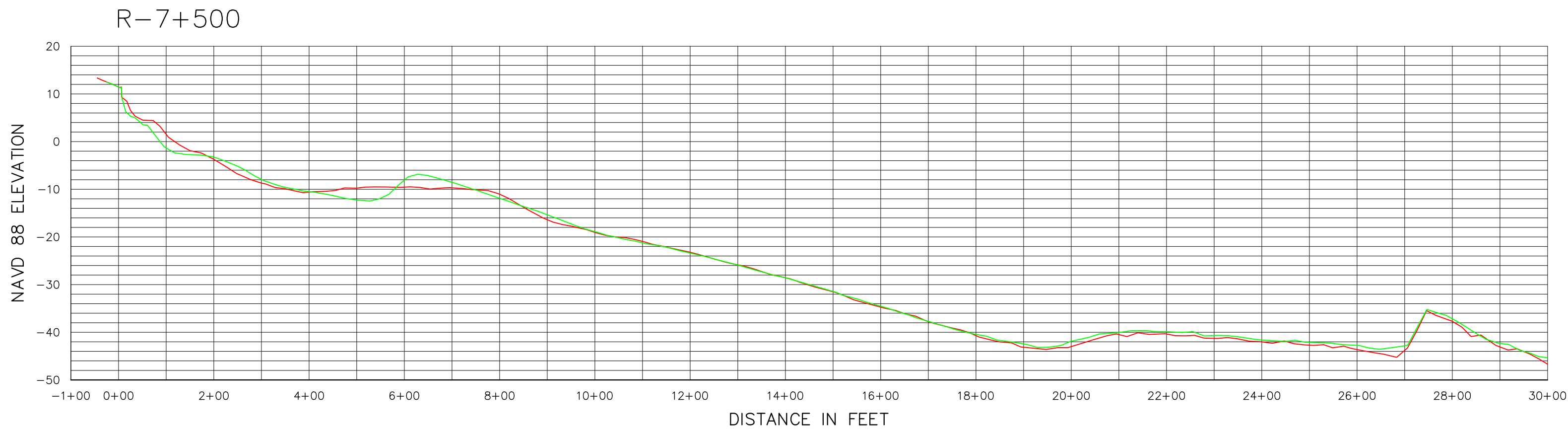
— DECEMBER 2023

— MAY 2024

SEE SHEET 1 FOR SURVEY NOTES

 Morgan & Eklund Inc. PROFESSIONAL SURVEY CONSULTANTS 4909 US HIGHWAY #1 VERO BEACH, FL 32967 PHONE: (772) 388-5364 FAX: (772) 388-3165 1557 NE. 164TH STREET UNIT I NORTH MIAMI BEACH, FL 33162 PHONE: (305) 403-9557 LB #4298		PROFILE VIEW (NAVD 88) TOPOGRAPHIC AND HYDROGRAPHIC SURVEY 39 ONSHORE/OFFSHORE BEACH PROFILES DEERFIELD BEACH/TOWN OF HILLSBORO BEACH BROWARD COUNTY, FLORIDA FOR COASTAL PROTECTION ENGINEERING				COMMISSION NO. 35783-6
		SCALE AS SHOWN				DATE 6/11/24
		DRAWN BY CAG	CHECKED BY DWC	FIELD BOOK PAGE NO.	BRO 70 1-14	DATE OF SURVEY 5/31/24

SHEET 7 OF 10



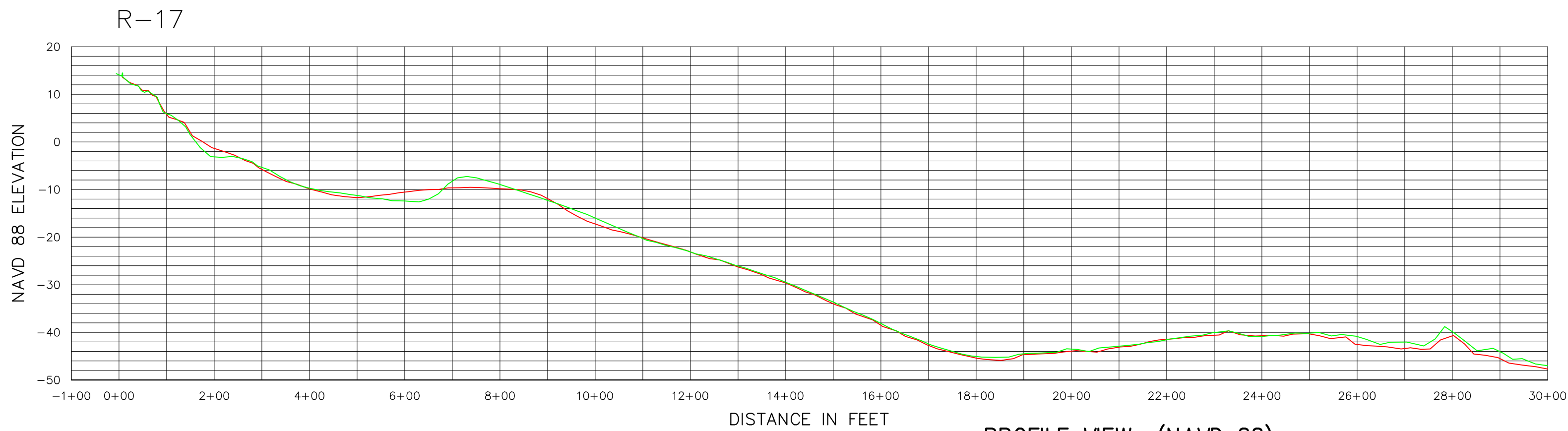
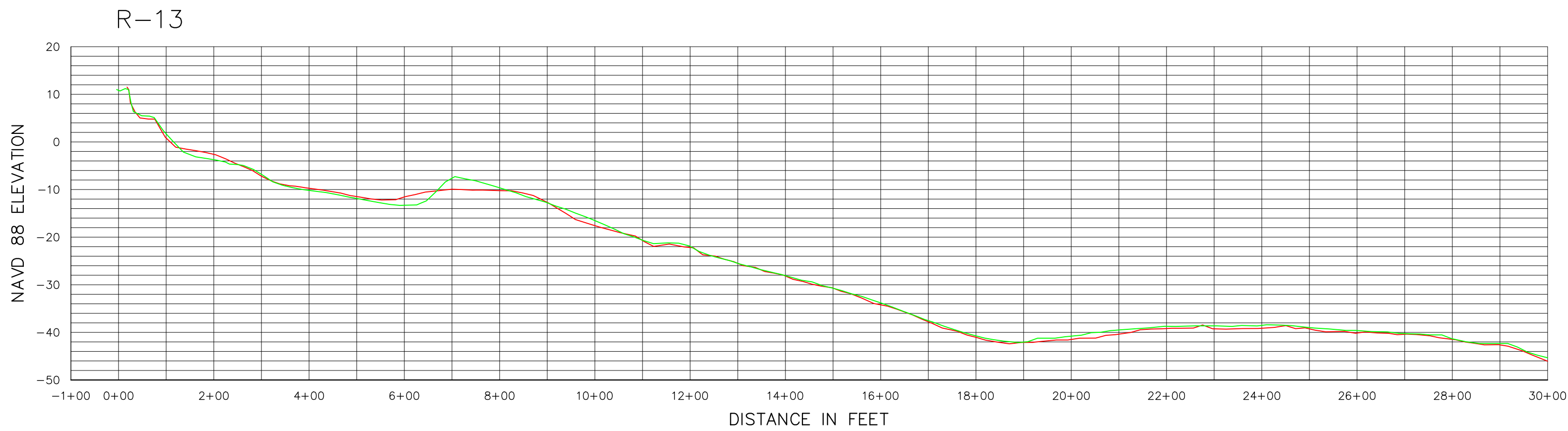
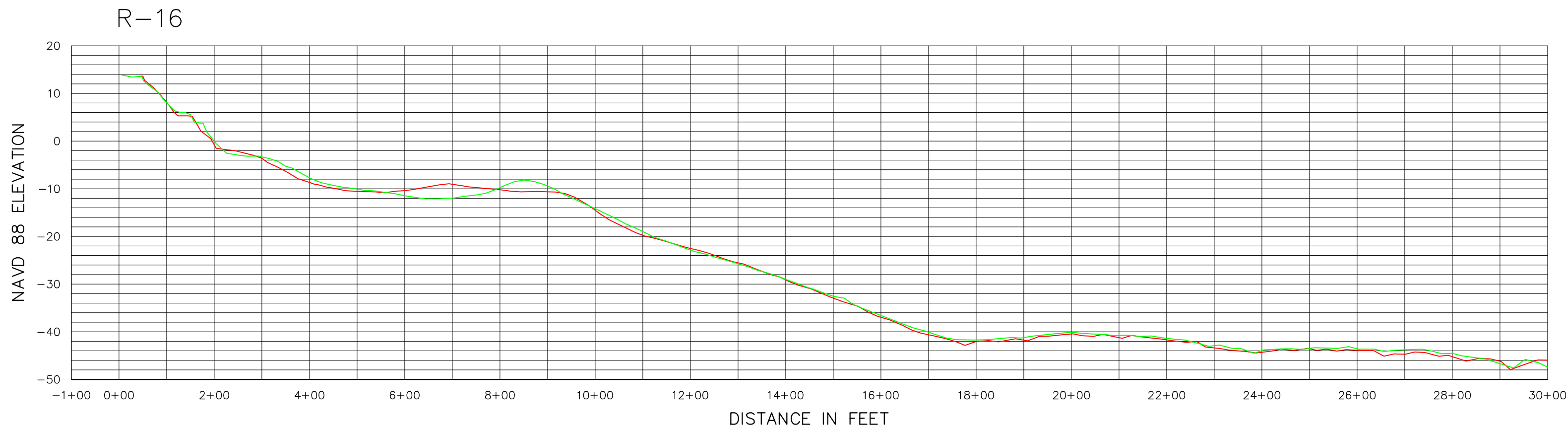
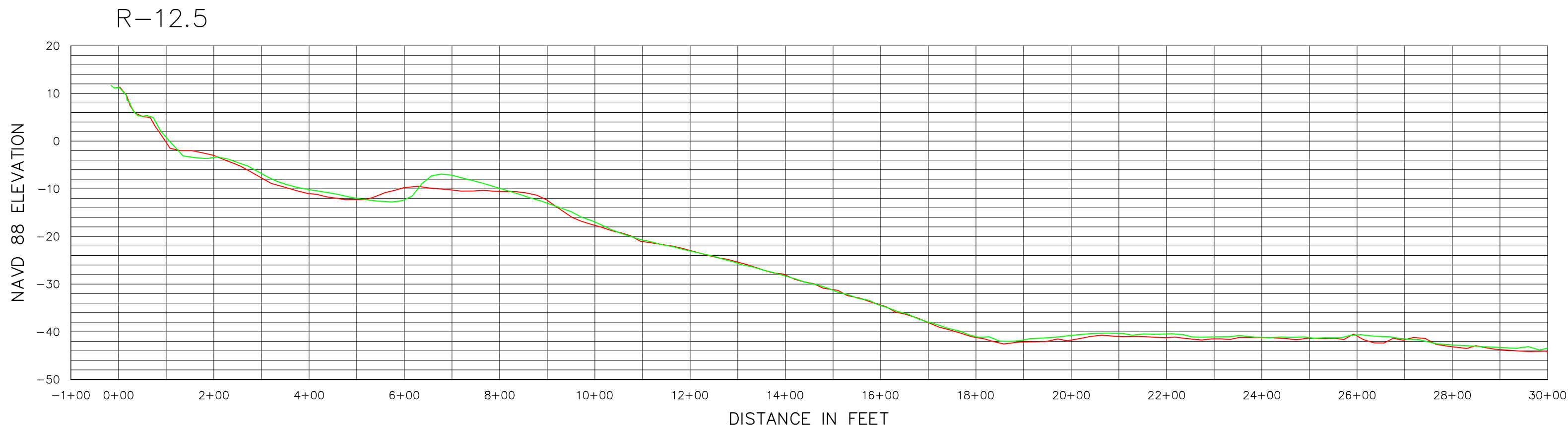
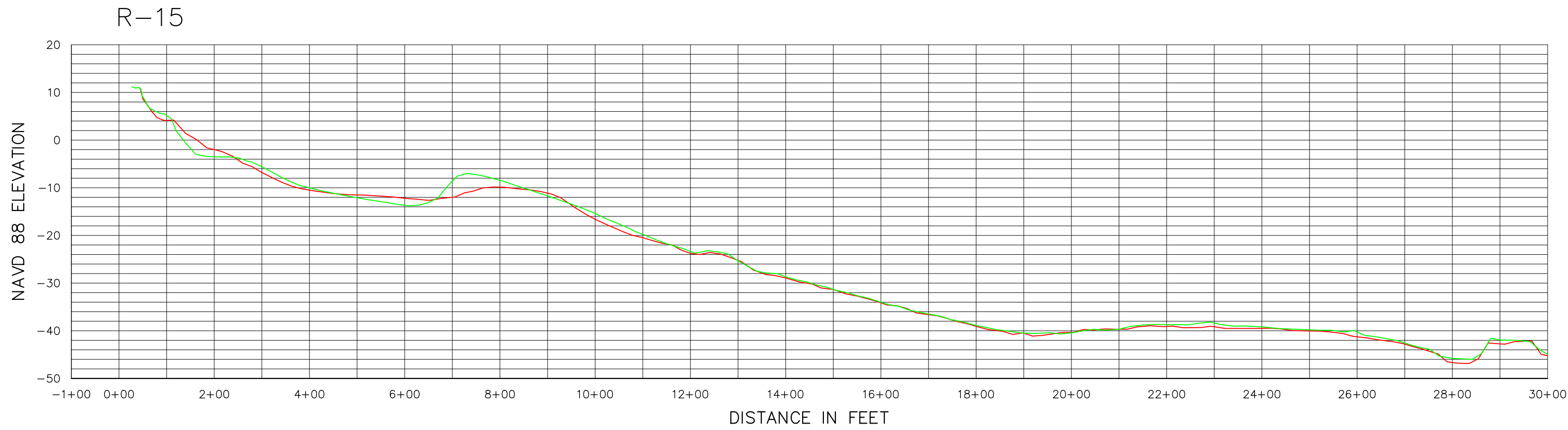
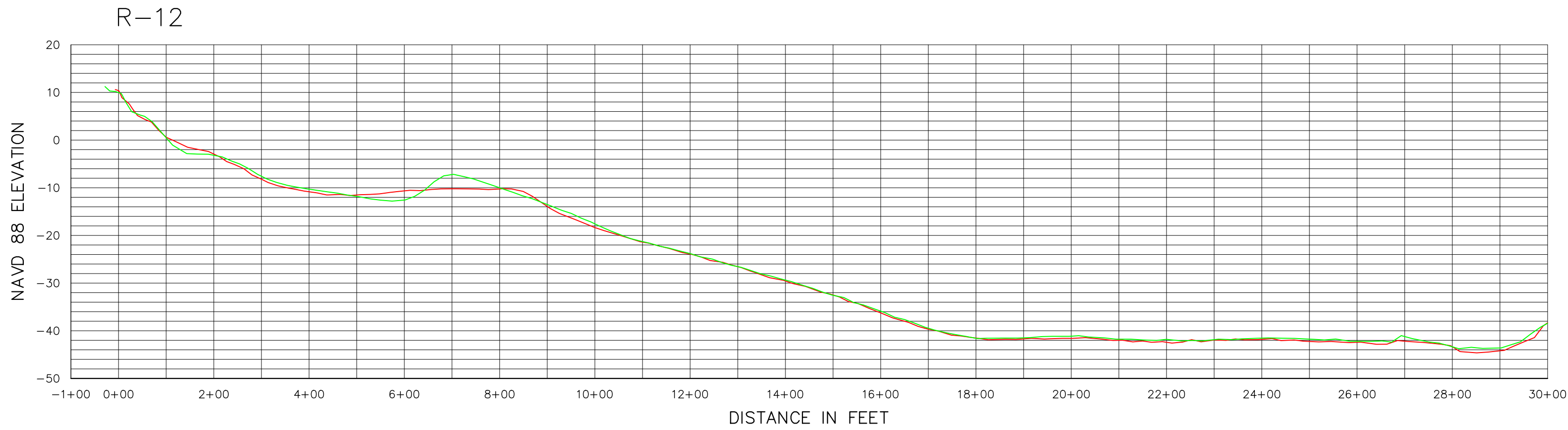
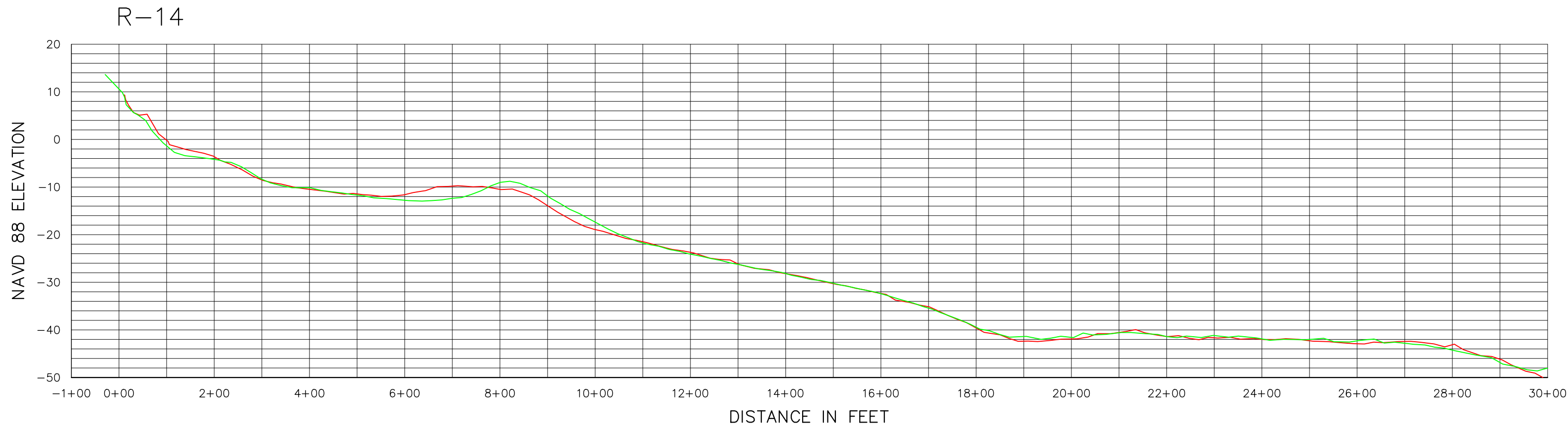
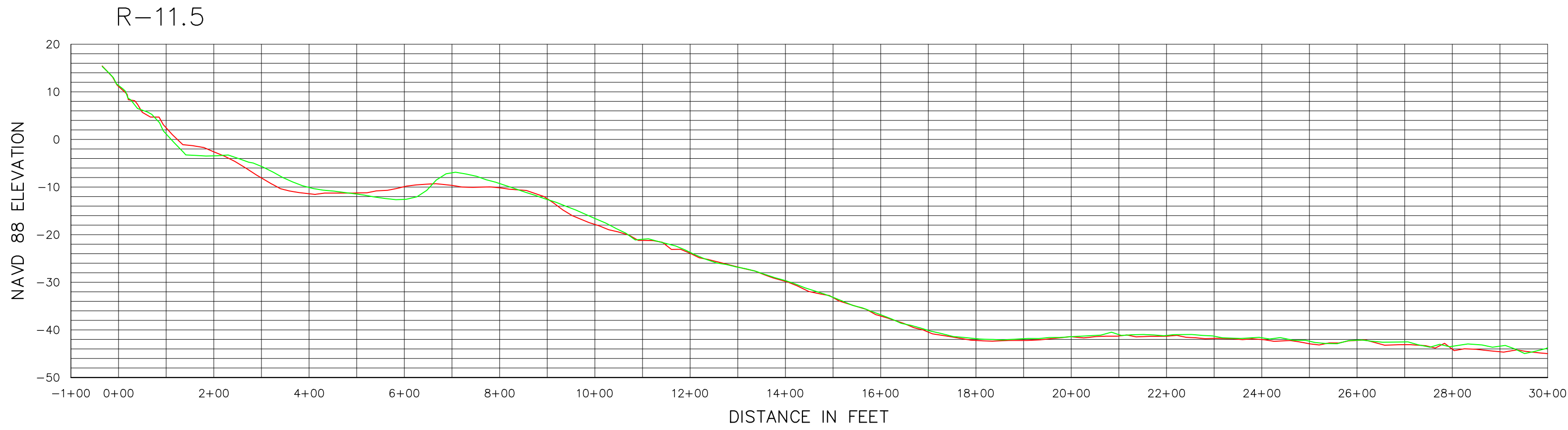
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HORIZONTAL SCALE 1" = 200'
INTENDED DISPLAY SCALE

0 20' 40'
VERTICAL SCALE 1" = 20'
INTENDED DISPLAY SCALE

LEGEND
— DECEMBER 2023
— MAY 2024

SEE SHEET 1 FOR SURVEY NOTES

 Morgan & Eklund Inc. PROFESSIONAL SURVEY CONSULTANTS 4909 US HIGHWAY #1 VERO BEACH, FL 32967 PHONE: (772) 388-5364 FAX: (772) 388-3165 1557 NE. 164TH STREET UNIT I NORTH MIAMI BEACH, FL 33162 PHONE: (305) 403-9557 LB #4298		TOPOGRAPHIC AND HYDROGRAPHIC SURVEY 39 ONSHORE/OFFSHORE BEACH PROFILES DEERFIELD BEACH/TOWN OF HILLSBORO BEACH BROWARD COUNTY, FLORIDA FOR COASTAL PROTECTION ENGINEERING				COMMISSION NO. 35783-6	
		SCALE AS SHOWN					
		DATE 6/11/24					
DRAWN BY CAG		CHECKED BY DWC		FIELD BOOK PAGE NO. 1-14		BRO 70 5/31/24	
						SHEET 8 OF 10	



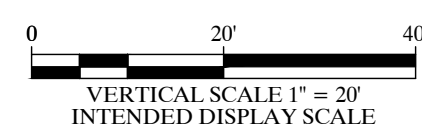
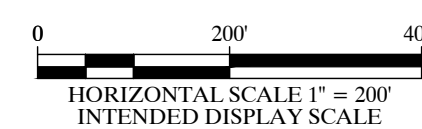
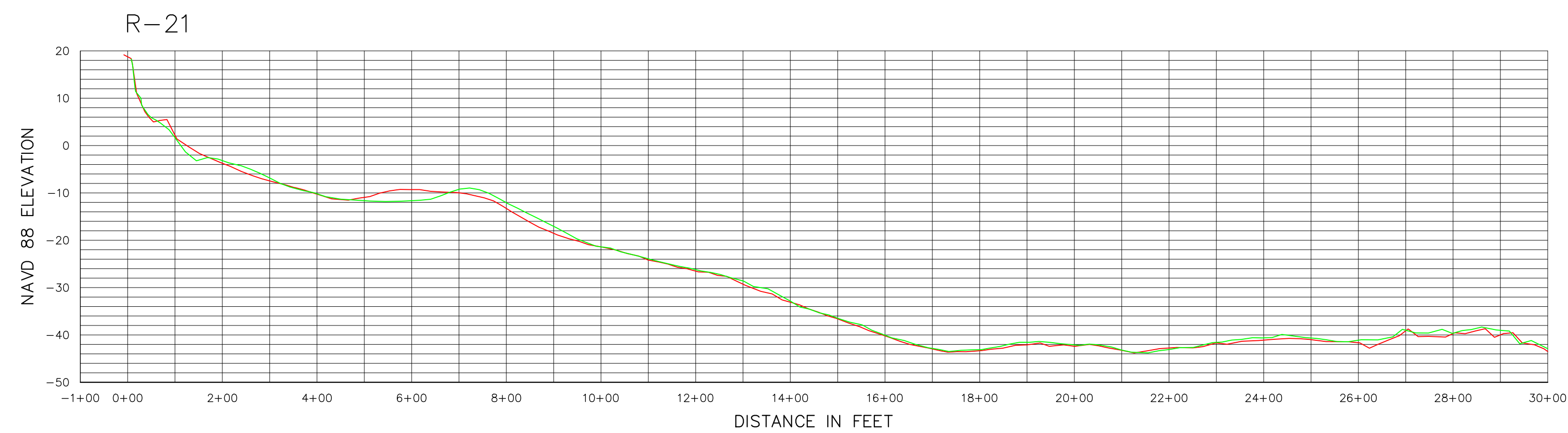
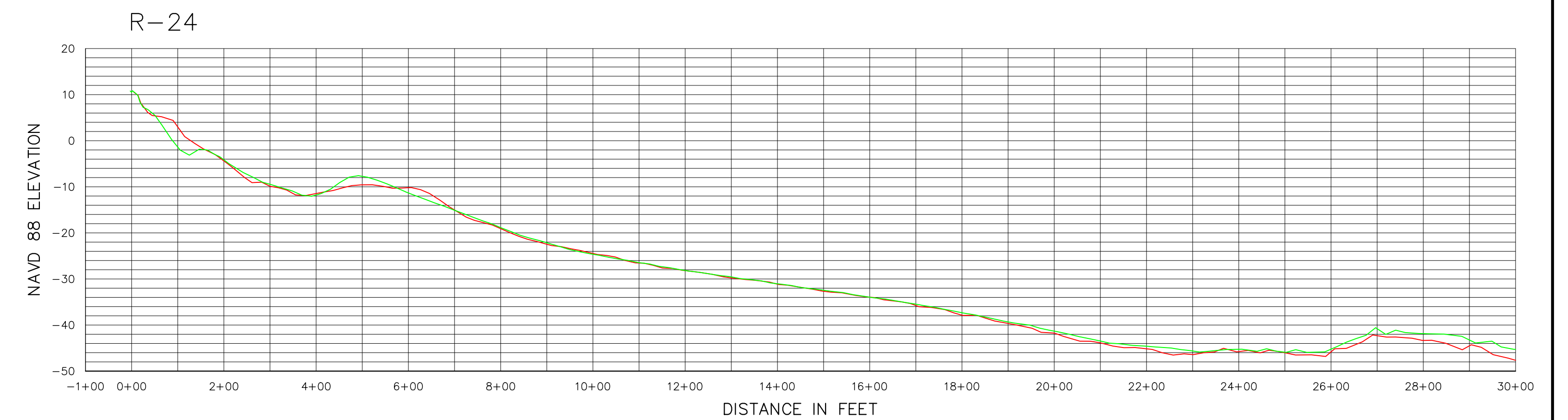
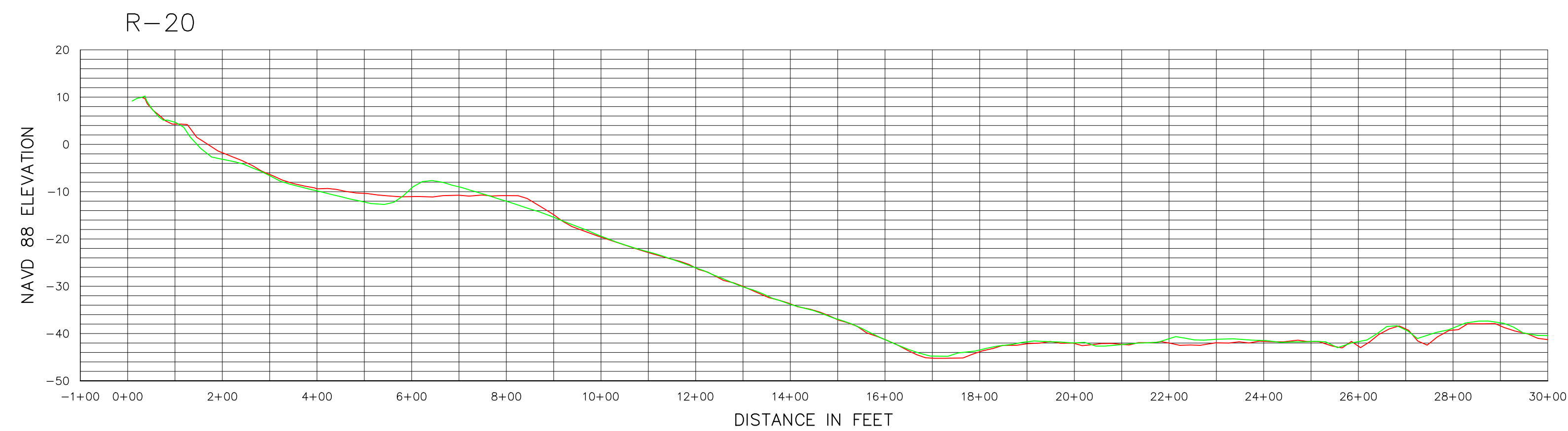
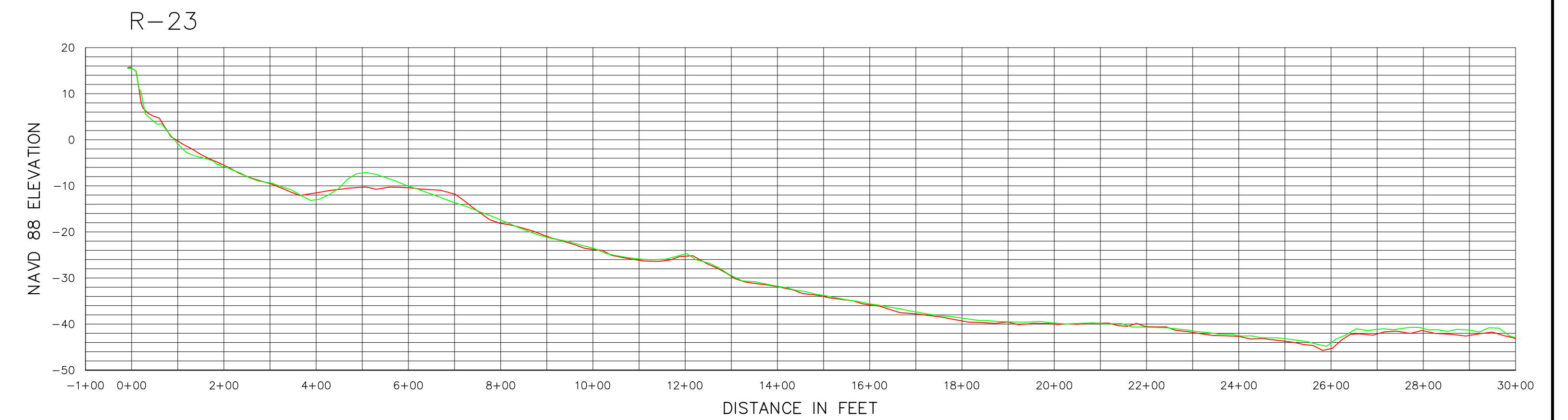
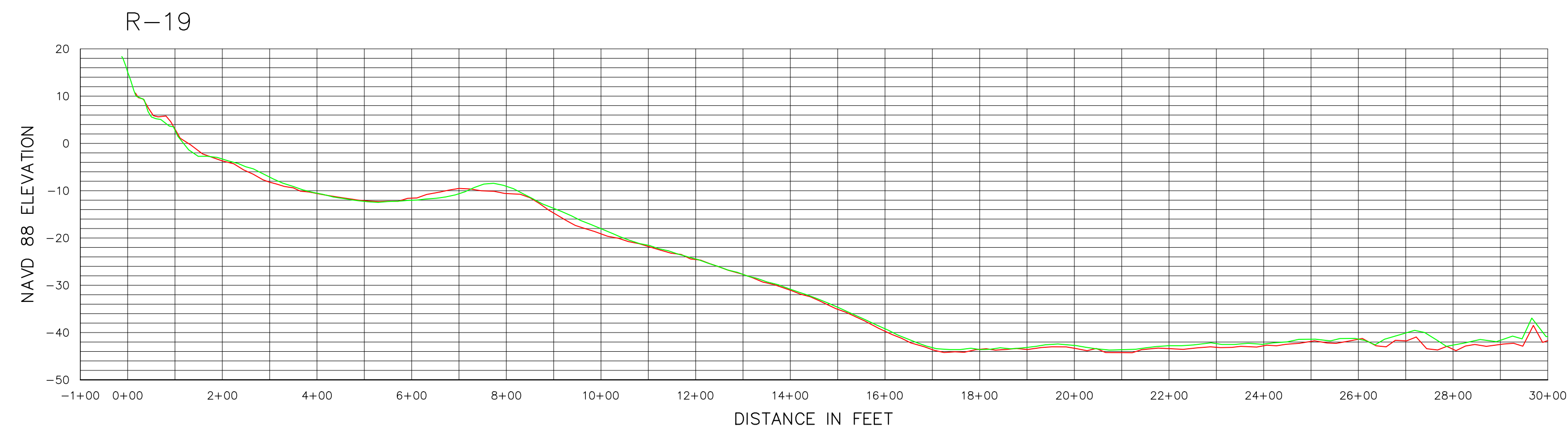
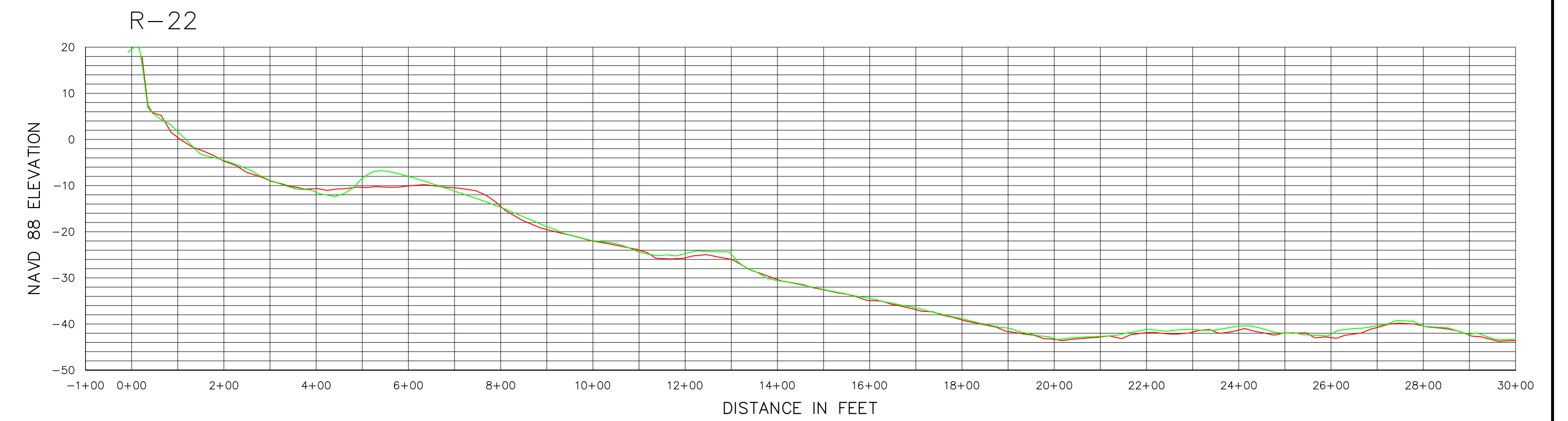
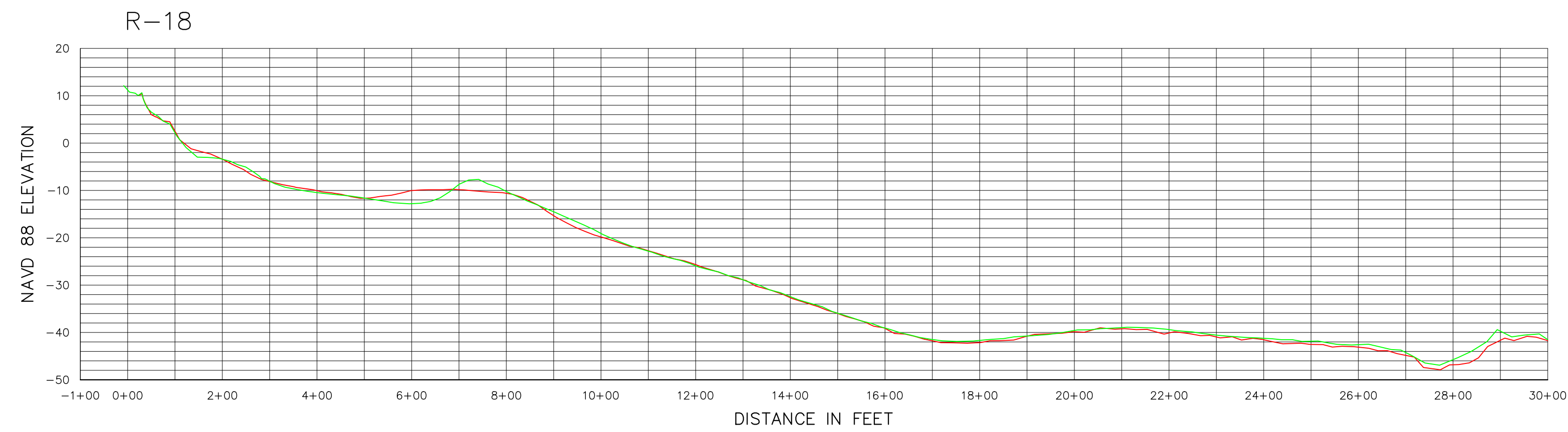
0 200' 400'
HORIZONTAL SCALE 1" = 200'
INTENDED DISPLAY SCALE

0 20' 40'
VERTICAL SCALE 1" = 20'
INTENDED DISPLAY SCALE

LEGEND
— DECEMBER 2023
— MAY 2024

SEE SHEET 1 FOR SURVEY NOTES

 Morgan & Eklund Inc. PROFESSIONAL SURVEY CONSULTANTS 4909 US HIGHWAY #1 VERO BEACH, FL 32967 PHONE: (772) 388-5364 FAX: (772) 388-3165 1557 NE. 164TH STREET UNIT I NORTH MIAMI BEACH, FL 33162 PHONE: (305) 403-9557 LB #4298		PROFILE VIEW (NAVD 88) TOPOGRAPHIC AND HYDROGRAPHIC SURVEY 39 ONSHORE/OFFSHORE BEACH PROFILES DEERFIELD BEACH/TOWN OF HILLSBORO BEACH BROWARD COUNTY, FLORIDA FOR COASTAL PROTECTION ENGINEERING		COMMISSION NO. 35783-6	
		SCALE AS SHOWN		DATE 6/11/24	
DRAWN BY CAG	CHECKED BY DWC	FIELD BOOK PAGE NO.	BRO 70 1-14	DATE OF SURVEY 5/31/24	SHEET 9 OF 10



LEGEND

DECEMBER 2023

MAY 2024

SEE SHEET 1 FOR SURVEY NOTES



Morgan & Eklund Inc.

PROFESSIONAL SURVEY CONSULTANTS

4909 US HIGHWAY #1 VERO BEACH, FL 32967 PHONE: (772) 388-5364 FAX: (772) 388-3165	1557 NE. 164TH STREET UNIT 1 NORTH MIAMI BEACH, FL 33162 PHONE: (305) 403-9557
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LB #4298

PROFILE VIEW (NAVD 88)
TOPOGRAPHIC AND HYDROGRAPHIC SURVEY
39 ONSHORE/OFFSHORE BEACH PROFILES
DEERFIELD BEACH/TOWN OF HILLSBORO BEACH
BROWARD COUNTY, FLORIDA
FOR COASTAL PROTECTION ENGINEERING

COMMISSION NO.
5783-6

SCALE
S SHOWN

DATE
6/11/24

10 OF 10

\\Sdskero1\35783-6\DWG\35783-6.dwg Chris Wed, 12 Jun 2024 - 11:07am

Section 2

ASCII FDEP Format File

MAY 2024 TOWN OF HILLSBORO/DEERFIELD BEACH MONITORING NAD 83/90 SPCS 0901 NAVD 88

R-1 1974 723425.97 959067.98 95.00 14.53

29MAY24 31MAY24 147 00 38 109

000.76	15.36	015.44	15.57	030.85	15.58	050.16	14.98	068.73	14.07
080.55	17.07	097.51	17.91	111.17	16.11	119.50	15.04	127.03	14.03
142.59	13.05	156.78	9.29	162.99	8.72	180.37	7.78	200.02	7.28
220.09	6.80	240.93	5.97	260.36	5.53	270.12	5.67	289.77	5.20
305.16	3.72	311.39	1.61	324.92	0.04	337.78	-1.25	351.83	-2.97
364.77	-3.43	377.94	-3.57	390.52	-3.71	402.96	-3.67	416.82	-3.70
435.34	-3.54	455.00	-3.90	473.57	-4.58	491.89	-5.45	503.82	-6.31
514.25	-7.00	530.39	-7.88	547.74	-8.80	552.30	-9.02	573.01	-10.10
593.33	-10.99	613.66	-11.02	634.18	-11.48	668.84	-12.04	689.03	-11.29
709.55	-10.66	736.54	-10.37	757.03	-9.88	778.34	-9.32	806.60	-8.79
832.46	-8.83	854.14	-8.53	876.16	-8.60	898.86	-8.89	920.80	-9.28
941.19	-9.88	961.19	-10.53	981.25	-11.15	1003.22	-11.84	1024.21	-12.70
1045.23	-13.25	1065.18	-13.94	1085.26	-14.60	1105.53	-15.58	1126.01	-16.47
1146.28	-17.19	1166.54	-18.18	1187.02	-18.93	1208.29	-19.72	1228.47	-20.51
1248.98	-21.16	1269.59	-21.95	1290.78	-22.57	1311.17	-23.10	1331.25	-23.65
1352.21	-24.44	1372.47	-25.10	1392.62	-25.85	1412.76	-26.54	1432.79	-27.46
1452.91	-28.41	1473.06	-29.36	1493.29	-30.51	1513.43	-31.43	1533.45	-32.41
1553.47	-33.43	1574.03	-34.22	1594.45	-34.97	1614.93	-35.86	1635.44	-36.78
1662.84	-37.34	1683.35	-37.99	1703.49	-38.39	1724.62	-39.11	1756.41	-38.98
1777.34	-39.21	1805.68	-39.47	1825.88	-39.67	1846.02	-39.86	1870.38	-39.96
1893.75	-40.12	1914.19	-40.12	1949.56	-40.26	1983.09	-40.52	2009.02	-40.88
2034.38	-41.21	2055.31	-40.75	2078.22	-40.81	2105.08	-40.85	2125.11	-41.44
2148.08	-41.11	2176.16	-40.29	2203.17	-40.19	2226.32	-39.27	2253.68	-39.30
2274.54	-39.11	2295.97	-38.22	2330.83	-36.97	2352.49	-37.43	2381.61	-37.07
2404.39	-37.47	2424.70	-37.24	2457.00	-37.01	2477.91	-37.60	2506.95	-37.57
2527.63	-38.16	2548.56	-38.35	2572.38	-38.32	2592.42	-38.48	2614.20	-38.62
2635.73	-39.21	2656.21	-39.63	2683.26	-40.12	2705.31	-40.78	2725.33	-41.21
2745.44	-41.67	2765.54	-41.99	2786.27	-42.26	2807.14	-42.16	2840.97	-42.29
2861.36	-42.72	2889.77	-43.14	2909.81	-44.09	2932.84	-44.32	2954.75	-45.08
2975.32	-45.54	2996.08	-46.10						

R-2 1974 722474.70 959029.39 95.00 12.94

29MAY24 31MAY24 143 00 30 113

000.73	13.22	010.67	12.76	025.13	14.93	045.68	15.01	066.62	14.94
072.79	15.64	086.51	10.94	100.15	9.17	120.00	7.51	140.09	6.63
160.09	5.76	180.04	5.01	200.06	5.33	210.21	5.58	221.11	5.33
234.57	3.82	245.55	3.13	261.02	0.42	276.38	-0.60	294.99	-2.78
313.28	-2.97	332.60	-3.09	352.95	-3.45	373.42	-3.91	391.91	-4.59
415.07	-5.87	426.76	-6.21	442.38	-7.12	458.33	-7.91	462.44	-8.23
478.88	-8.69	500.93	-9.19	523.44	-9.68	543.79	-10.10	565.04	-10.56
586.38	-11.09	607.91	-11.65	628.38	-12.17	649.98	-12.63	670.72	-13.19
690.77	-13.55	728.78	-13.65	748.98	-12.86	769.27	-11.61	789.29	-10.01
809.51	-9.28	830.07	-9.02	850.52	-9.25	871.11	-9.78	892.02	-10.33
912.73	-10.79	935.20	-11.48	955.45	-12.20	976.05	-12.89	996.27	-13.65
1016.19	-14.44	1036.37	-15.26	1056.53	-16.01	1076.69	-17.06	1098.41	-18.11
1118.57	-19.19	1139.24	-20.24	1159.83	-21.46	1181.44	-22.47	1201.54	-22.87

1222.66	-23.29	1244.12	-23.88	1266.55	-24.54	1287.66	-25.33	1308.80	-26.05
1329.77	-27.00	1350.66	-27.79	1370.78	-28.71	1392.25	-29.79	1412.98	-30.91
1433.04	-31.86	1453.16	-32.74	1473.31	-33.73	1494.76	-34.74	1515.21	-35.93
1536.76	-37.01	1557.23	-38.25	1578.28	-39.21	1598.29	-40.22	1618.75	-41.08
1638.76	-42.26	1660.67	-43.14	1682.31	-44.09	1702.35	-44.59	1723.01	-45.01
1744.16	-45.47	1764.38	-46.13	1794.90	-47.34	1816.51	-48.06	1838.84	-48.10
1859.54	-48.43	1884.65	-48.29	1910.06	-48.23	1940.28	-48.10	1973.43	-48.29
1997.33	-47.47	2017.80	-46.95	2037.82	-46.88	2058.06	-46.10	2078.32	-45.70
2098.88	-45.08	2119.24	-44.59	2139.46	-43.86	2160.03	-43.21	2180.12	-42.55
2200.61	-42.03	2220.74	-41.27	2242.48	-40.91	2262.71	-40.49	2282.90	-39.80
2306.77	-39.30	2327.11	-38.81	2356.11	-38.62	2376.36	-38.25	2404.99	-37.96
2432.43	-38.25	2454.42	-38.22	2478.00	-38.09	2497.80	-38.45	2518.71	-38.78
2539.18	-39.01	2566.24	-39.07	2586.46	-39.21	2608.12	-39.47	2629.88	-39.76
2650.90	-40.26	2671.12	-40.98	2707.77	-39.73	2727.87	-37.70	2748.48	-40.42
2768.71	-41.67	2802.43	-41.77	2842.10	-43.37	2875.46	-43.37	2913.15	-42.85
2938.50	-43.80	2959.20	-44.95	2979.56	-45.70				
R-3	1990	721451.46	958967.58	95.00	12.70				
	29MAY24	31MAY24	143 00 33 110						

-000.83	12.30	004.61	12.21	005.20	12.25	017.13	13.00	028.16	12.43
029.05	12.10	033.52	11.68	044.27	11.11	064.33	9.81	084.87	8.60
104.09	7.42	124.20	6.36	146.48	6.00	148.16	6.26	151.66	6.99
155.72	6.38	156.14	5.73	164.93	5.52	174.93	5.60	195.65	4.41
212.25	1.86	233.52	-0.63	251.22	-2.37	269.53	-3.57	291.07	-3.95
309.81	-4.32	326.92	-4.54	342.84	-4.69	368.02	-4.64	399.31	-4.94
426.27	-5.97	452.39	-7.71	459.54	-7.66	471.47	-8.14	491.57	-8.63
511.31	-9.06	531.23	-9.32	551.74	-9.68	573.19	-10.07	593.41	-10.27
614.88	-10.66	635.27	-9.06	656.45	-10.43	676.73	-10.93	714.31	-9.88
734.38	-10.79	756.49	-10.53	777.84	-11.15	804.79	-11.29	828.13	-11.15
851.08	-10.96	871.05	-11.06	891.11	-11.15	911.24	-11.78	931.72	-12.27
952.31	-12.89	972.96	-13.65	993.29	-14.50	1013.56	-15.35	1033.84	-16.24
1054.15	-17.29	1074.39	-18.47	1094.79	-19.52	1115.25	-20.77	1135.43	-21.92
1156.06	-22.74	1176.10	-23.49	1196.22	-24.28	1216.67	-24.90	1236.85	-25.39
1257.30	-25.98	1278.52	-26.57	1298.59	-27.17	1318.97	-27.72	1339.07	-28.67
1359.28	-29.66	1380.11	-30.61	1407.58	-31.56	1428.40	-32.02	1448.52	-32.78
1468.99	-33.79	1489.12	-34.91	1509.08	-36.06	1529.11	-37.24	1549.65	-38.42
1569.74	-39.44	1590.65	-40.45	1610.67	-41.63	1631.56	-42.81	1652.24	-44.00
1672.41	-44.78	1702.48	-45.37	1722.62	-46.00	1742.88	-46.98	1762.92	-47.64
1792.17	-48.72	1819.86	-48.59	1846.84	-48.46	1882.85	-48.26	1911.28	-47.83
1941.47	-47.54	1966.89	-47.21	1992.42	-46.42	2016.11	-46.65	2036.11	-46.00
2058.48	-46.33	2082.06	-46.10	2105.26	-45.60	2137.04	-45.54	2160.29	-45.64
2189.83	-45.67	2220.84	-45.31	2245.90	-44.82	2280.12	-44.59	2302.17	-43.90
2323.60	-43.50	2354.36	-42.85	2374.53	-42.19	2394.73	-41.63	2416.75	-40.91
2437.76	-40.55	2457.81	-39.63	2489.40	-39.47	2516.88	-38.98	2537.01	-39.44
2575.43	-39.30	2613.15	-39.76	2635.36	-40.03	2656.76	-40.39	2676.97	-40.55
2708.08	-40.88	2728.20	-41.50	2756.87	-41.60	2777.07	-42.22	2801.54	-42.65
2822.44	-42.59	2846.78	-43.27	2868.92	-43.24	2901.29	-42.75	2921.46	-43.21
2942.09	-42.85	2962.82	-42.68	2991.22	-41.11				
R-4	1993	720442.11	958907.83	95.00	11.59				
	29MAY24	31MAY24	143 00 31 112						

-000.05	11.82	013.70	11.76	014.35	11.79	022.78	11.67	023.18	13.42
024.63	13.06	025.12	13.44	029.30	13.07	030.49	12.75	041.38	11.37
043.23	10.47	055.31	9.62	074.79	7.90	095.31	6.83	115.19	6.37
125.02	6.27	142.05	5.55	156.30	4.20	170.47	3.25	176.74	1.33
196.36	-0.65	213.60	-2.75	239.68	-3.11	262.23	-3.27	293.64	-3.39
319.50	-3.83	343.51	-4.54	369.63	-5.94	389.66	-7.30	411.69	-8.49
431.80	-9.34	452.75	-9.91	473.29	-10.47	493.96	-10.89	521.72	-10.10
548.66	-10.47	585.60	-10.73	605.71	-10.04	626.48	-9.25	647.64	-8.83
668.43	-8.66	689.26	-8.86	710.18	-9.25	731.83	-9.74	753.11	-10.27
773.89	-10.93	795.32	-11.52	815.84	-12.14	836.27	-12.83	856.99	-13.58
877.52	-14.30	898.48	-14.99	919.53	-15.94	940.13	-16.70	960.06	-17.55
980.83	-18.34	1001.02	-18.96	1022.31	-19.75	1045.02	-20.28	1065.32	-20.87
1085.57	-21.23	1110.03	-21.65	1130.12	-22.11	1151.53	-22.60	1172.71	-23.13
1192.94	-23.65	1213.20	-24.28	1234.81	-25.13	1256.18	-25.75	1276.29	-26.54
1296.71	-27.10	1317.49	-27.99	1339.22	-28.81	1359.33	-29.49	1380.87	-30.31
1400.89	-31.20	1422.04	-32.05	1442.22	-33.07	1462.97	-33.89	1483.10	-34.65
1503.58	-35.47	1523.57	-36.22	1549.46	-36.78	1571.04	-37.76	1591.71	-38.81
1617.29	-39.76	1640.39	-40.72	1667.12	-41.90	1687.23	-43.04	1719.25	-43.73
1744.96	-44.46	1766.21	-44.82	1793.03	-44.85	1822.35	-44.85	1848.07	-45.14
1868.01	-45.05	1894.81	-45.28	1931.97	-45.11	1958.45	-45.34	1990.11	-44.98
2024.65	-44.88	2047.99	-44.82	2067.94	-44.55	2088.61	-44.23	2109.05	-44.16
2132.63	-43.86	2152.57	-43.04	2173.78	-42.55	2193.85	-41.80	2214.79	-41.17
2234.89	-40.52	2259.56	-39.93	2279.67	-39.21	2313.90	-38.88	2334.15	-38.32
2359.95	-38.16	2389.75	-37.63	2412.79	-37.50	2438.47	-37.17	2462.53	-37.11
2482.88	-36.97	2505.11	-36.88	2526.03	-36.78	2549.08	-36.81	2586.06	-36.75
2606.12	-37.40	2630.88	-37.43	2654.65	-37.66	2684.69	-37.76	2717.59	-38.02
2737.93	-38.55	2757.96	-38.48	2778.85	-38.65	2801.63	-39.07	2822.04	-39.47
2842.73	-39.86	2862.80	-40.58	2883.06	-41.24	2904.06	-41.93	2924.17	-42.45
2944.55	-43.50	2967.21	-44.32	2991.99	-44.26				

R-4.5 719991.81 958904.39 95.00

29MAY24 31MAY24 144 00 27 117

-033.06	12.79	-026.95	12.94	-017.74	12.83	-017.07	12.85	-011.34	13.92
-002.17	13.68	007.93	13.01	016.76	12.21	022.49	10.62	030.26	9.76
050.21	7.81	070.26	6.40	079.34	5.86	089.88	5.68	099.87	5.81
114.30	5.88	131.46	3.85	143.86	1.35	162.94	-0.70	183.44	-2.84
203.98	-2.98	225.31	-2.93	246.12	-3.18	266.89	-3.84	284.64	-4.39
301.43	-5.27	316.42	-6.15	333.71	-7.09	350.66	-8.01	371.12	-8.56
393.43	-9.12	413.88	-9.51	434.12	-9.78	454.09	-9.97	488.44	-8.43
511.46	-8.79	532.77	-8.89	563.55	-9.15	585.05	-8.66	607.25	-8.40
627.45	-8.53	649.51	-8.89	669.44	-9.35	689.73	-9.88	710.35	-10.56
730.53	-11.12	750.79	-11.88	771.35	-12.50	791.47	-13.22	811.55	-13.88
832.46	-14.67	852.46	-15.39	872.71	-16.08	892.89	-16.80	913.68	-17.49
936.24	-18.24	960.82	-19.06	981.41	-19.65	1001.52	-20.34	1021.66	-21.00
1041.99	-21.56	1062.22	-22.01	1082.38	-22.54	1102.52	-23.13	1122.79	-23.56
1143.54	-23.92	1164.42	-24.34	1186.19	-24.70	1206.44	-25.26	1226.57	-25.98
1246.60	-26.38	1266.62	-27.03	1291.78	-28.15	1311.76	-28.90	1331.93	-29.86
1352.13	-30.91	1372.61	-31.59	1392.96	-32.35	1412.97	-32.91	1436.18	-33.83
1462.62	-34.68	1484.08	-35.43	1504.16	-36.19	1523.93	-36.61	1547.40	-36.94

1567.60	-37.37	1589.31	-37.80	1609.46	-38.32	1630.21	-38.62	1666.92	-38.75
1687.18	-38.98	1720.48	-39.07	1755.55	-39.57	1780.68	-39.76	1810.54	-39.57
1833.60	-39.50	1856.33	-39.83	1887.51	-39.99	1910.52	-39.96	1932.09	-39.73
1957.36	-39.60	1979.75	-39.40	2013.96	-39.30	2034.15	-39.34	2064.03	-39.37
2084.66	-39.30	2108.45	-39.11	2132.58	-38.71	2156.57	-38.45	2176.99	-38.12
2201.31	-38.02	2235.20	-37.73	2258.80	-37.40	2278.62	-37.57	2298.66	-37.07
2329.05	-36.81	2349.41	-36.55	2388.98	-36.45	2417.64	-36.48	2442.61	-36.68
2464.60	-36.84	2484.81	-37.24	2507.36	-37.50	2538.57	-37.60	2570.27	-37.50
2591.07	-37.66	2612.85	-37.83	2639.58	-37.96	2659.85	-38.09	2681.21	-38.16
2701.32	-38.32	2721.46	-38.71	2741.82	-39.11	2761.95	-39.57	2782.72	-39.93
2803.23	-40.19	2823.46	-40.52	2843.65	-41.08	2863.97	-41.77	2886.32	-42.65
2910.58	-43.11	2933.18	-43.04	2959.52	-43.50	2984.88	-44.42		
R-5	1974	719541.52	958900.96	95.00	14.12				
	29MAY24	31MAY24	139 00	27 112					

-007.40	14.41	007.02	13.83	016.06	13.41	026.75	13.01	027.76	14.15
028.11	13.77	031.82	13.15	035.48	10.43	041.25	10.29	043.69	9.05
053.14	8.37	053.78	5.92	060.09	5.69	069.99	5.10	084.56	4.41
101.79	3.68	119.18	0.33	138.84	-1.96	161.24	-3.37	179.62	-3.25
199.35	-3.18	223.78	-3.80	242.72	-4.39	267.48	-5.39	292.10	-6.49
315.87	-7.99	334.09	-8.50	360.36	-8.23	388.94	-7.81	413.74	-8.46
439.12	-8.99	474.59	-9.55	495.47	-9.06	515.62	-8.83	536.39	-8.73
559.99	-8.56	582.83	-8.66	605.08	-8.96	625.62	-9.28	647.13	-9.71
667.46	-10.30	688.65	-10.79	709.49	-11.38	729.49	-12.14	753.92	-12.57
775.52	-13.52	796.99	-14.27	817.01	-15.26	837.34	-15.94	858.36	-16.77
878.49	-17.68	898.59	-18.54	919.37	-19.09	939.34	-19.59	959.46	-20.18
980.99	-20.64	1001.98	-21.06	1021.83	-21.42	1042.40	-21.75	1062.30	-22.11
1082.43	-22.57	1102.35	-23.43	1123.58	-24.02	1143.81	-24.64	1164.52	-25.00
1184.35	-25.39	1204.16	-25.89	1225.39	-26.48	1246.35	-27.07	1266.42	-27.66
1287.01	-28.12	1309.59	-28.64	1331.75	-29.07	1352.70	-29.69	1375.21	-30.31
1395.84	-30.87	1417.06	-31.56	1437.16	-32.25	1457.82	-32.78	1478.42	-33.27
1498.53	-33.73	1518.81	-34.19	1540.07	-34.61	1560.57	-35.10	1581.50	-35.63
1601.59	-35.50	1621.57	-35.70	1660.54	-35.93	1680.76	-35.79	1709.43	-35.76
1742.17	-35.73	1769.46	-35.89	1797.59	-35.89	1821.19	-35.83	1840.96	-35.79
1862.62	-35.47	1883.04	-35.56	1903.50	-35.53	1923.57	-35.43	1944.95	-35.40
1970.40	-35.27	1997.76	-35.47	2018.17	-35.70	2045.65	-35.83	2065.93	-36.32
2103.85	-35.89	2142.28	-36.06	2164.11	-36.29	2184.39	-36.58	2204.78	-37.04
2226.60	-37.63	2257.78	-37.66	2278.37	-37.93	2305.41	-38.12	2343.00	-38.06
2367.93	-38.22	2395.01	-38.39	2416.04	-38.62	2438.48	-38.65	2460.59	-38.65
2485.36	-39.14	2506.08	-38.81	2541.78	-39.53	2572.95	-38.94	2600.99	-39.99
2631.83	-39.76	2656.90	-40.39	2678.09	-40.75	2698.13	-41.17	2729.44	-41.21
2768.55	-41.80	2808.01	-40.03	2828.11	-42.42	2856.78	-42.78	2880.82	-41.80
2902.98	-44.16	2924.95	-44.62	2959.25	-44.91	2980.02	-45.54		
R-5+350		719195.21	958843.51	95.00					
	29MAY24	31MAY24	144 00	31 113					

-066.24	13.28	-065.63	13.21	-055.02	12.90	-053.70	12.72	-045.38	12.68
-028.41	12.46	-013.79	12.24	-012.69	12.44	-004.57	12.25	003.90	12.27
011.27	12.87	019.47	13.44	026.96	12.84	039.77	10.99	052.73	9.71
064.58	9.57	074.08	6.70	085.26	5.56	094.81	4.93	113.56	3.66

125.73	3.18	149.40	-0.62	176.35	-2.62	202.30	-2.79	225.60	-3.31
246.77	-3.94	266.43	-4.60	285.66	-5.56	300.38	-6.56	319.09	-7.87
341.01	-8.87	358.39	-9.32	378.50	-9.78	400.25	-9.94	420.55	-10.10
444.32	-9.88	471.79	-8.92	491.81	-8.23	514.61	-9.02	539.51	-9.48
577.40	-10.56	598.16	-9.65	618.90	-9.19	640.10	-9.15	660.57	-9.51
680.81	-10.07	702.65	-10.56	724.15	-11.38	745.80	-12.04	766.20	-12.70
786.26	-13.45	815.22	-14.04	835.38	-15.29	856.03	-15.88	876.83	-16.60
896.91	-17.42	917.82	-18.24	938.04	-19.06	958.29	-19.78	980.51	-20.37
1000.85	-20.96	1021.63	-21.36	1044.78	-21.75	1065.16	-22.18	1103.11	-22.44
1124.24	-23.23	1144.53	-23.72	1164.71	-24.18	1184.78	-24.48	1204.80	-25.07
1226.70	-25.33	1247.29	-25.69	1269.29	-26.15	1289.77	-26.51	1312.53	-26.84
1332.60	-27.30	1352.59	-27.72	1372.67	-28.22	1395.45	-28.48	1415.61	-28.87
1435.79	-29.13	1458.67	-29.10	1478.78	-29.33	1500.79	-29.63	1525.08	-29.86
1552.93	-30.12	1572.92	-30.48	1593.00	-30.68	1613.30	-30.84	1634.54	-30.94
1654.76	-31.10	1682.10	-31.36	1702.75	-31.59	1724.08	-31.82	1744.13	-32.12
1765.35	-32.35	1786.09	-32.51	1806.23	-32.78	1827.01	-32.97	1861.54	-33.14
1882.22	-33.50	1904.12	-33.79	1923.99	-33.89	1946.12	-34.06	1971.81	-34.28
1994.29	-34.32	2028.43	-34.51	2059.29	-34.55	2095.07	-34.55	2116.16	-34.74
2144.77	-34.74	2165.14	-34.81	2186.85	-34.97	2208.71	-35.24	2248.69	-35.30
2270.65	-35.10	2292.42	-35.10	2312.85	-35.01	2335.03	-34.97	2355.13	-35.53
2377.75	-35.96	2401.31	-36.25	2421.52	-36.38	2449.26	-36.45	2472.36	-36.58
2500.00	-36.75	2521.10	-36.29	2547.47	-36.35	2584.44	-36.88	2604.61	-37.11
2624.76	-37.14	2644.70	-37.70	2679.55	-37.93	2700.20	-38.55	2720.38	-39.57
2752.84	-41.17	2778.44	-42.19	2802.31	-42.06	2822.47	-41.70	2858.52	-41.50
2889.58	-42.06	2917.12	-44.32	2956.76	-43.73	2987.49	-43.90		
R-5+550		718997.32	958810.68	95.00					
30MAY24	31MAY24	137	00	25	112				

-034.67	16.22	-023.86	18.36	-012.67	15.33	-000.43	14.95	008.41	14.47
022.18	14.84	032.30	14.02	041.56	14.75	056.26	15.37	069.19	15.12
084.51	8.31	092.20	5.54	104.92	4.63	127.01	3.34	139.70	3.19
156.10	0.52	174.82	-1.23	195.65	-2.92	227.91	-3.31	248.62	-3.84
270.45	-4.66	288.73	-5.43	306.20	-6.22	327.66	-7.35	347.51	-8.28
352.09	-8.40	373.28	-8.83	403.55	-9.02	424.63	-9.15	456.54	-8.10
477.58	-8.33	498.53	-8.76	518.76	-8.96	541.23	-9.32	572.40	-9.25
595.02	-9.02	619.36	-8.89	639.89	-9.02	661.84	-9.38	684.53	-9.97
704.56	-10.47	725.07	-11.12	745.30	-11.81	766.40	-12.50	787.47	-13.25
809.21	-13.94	829.55	-14.67	855.96	-15.12	877.44	-16.31	898.78	-17.13
920.04	-17.88	941.43	-18.57	962.17	-19.13	983.00	-19.75	1005.66	-20.28
1026.92	-20.80	1046.95	-21.33	1067.54	-21.92	1088.23	-22.44	1109.36	-22.83
1131.00	-23.26	1153.04	-23.69	1176.33	-24.21	1200.61	-24.54	1222.15	-25.07
1248.08	-25.33	1269.36	-25.66	1296.19	-25.98	1318.45	-26.41	1338.43	-26.64
1359.76	-27.03	1386.81	-27.30	1407.93	-27.66	1428.48	-27.85	1451.74	-28.31
1472.72	-28.58	1493.72	-28.97	1517.20	-29.20	1538.47	-29.59	1558.47	-29.92
1584.58	-30.22	1606.57	-30.54	1628.15	-30.94	1648.73	-31.20	1671.39	-31.59
1693.03	-31.96	1713.06	-32.25	1733.49	-32.61	1758.14	-32.87	1779.69	-33.23
1804.11	-33.60	1827.41	-33.89	1852.94	-33.96	1874.42	-34.12	1897.36	-34.35
1924.87	-34.51	1950.80	-34.71	1971.39	-34.88	1991.75	-35.10	2016.97	-35.33
2043.27	-35.50	2067.77	-35.79	2095.97	-36.15	2117.54	-36.45	2141.25	-36.61
2163.00	-37.24	2188.48	-37.37	2220.34	-37.73	2248.24	-37.50	2281.57	-38.02

2319.89	-38.09	2351.49	-38.09	2376.30	-38.02	2404.07	-37.73	2425.62	-37.80
2463.80	-37.89	2492.84	-38.12	2529.49	-38.71	2558.80	-39.80	2579.09	-39.44
2606.57	-39.44	2633.77	-39.50	2664.18	-39.89	2687.57	-40.78	2708.05	-41.31
2743.69	-37.99	2764.48	-37.04	2786.40	-37.34	2813.67	-36.52	2840.19	-38.16
2862.13	-40.65	2882.71	-41.27	2902.99	-42.19	2924.28	-43.24	2946.49	-43.77
2972.23	-43.21	2999.27	-43.70						
R-5+700		718848.90	958786.06	95.00					
30MAY24	31MAY24	135	00	23	112				

-024.23	14.98	-011.02	15.24	043.82	14.50	060.35	13.14	078.17	10.61
080.79	10.04	097.22	6.91	108.28	4.64	115.02	3.85	125.52	3.43
140.60	3.33	146.65	1.89	163.67	-0.48	182.57	-2.22	205.98	-2.50
229.89	-3.01	253.60	-3.29	272.16	-3.94	291.63	-4.62	308.93	-5.63
337.23	-6.91	362.45	-7.90	383.83	-8.58	406.58	-8.89	426.58	-9.42
446.59	-10.10	467.02	-9.97	491.80	-10.86	524.95	-11.58	549.63	-11.35
570.38	-10.93	590.88	-10.30	613.26	-9.71	636.63	-9.58	669.99	-9.58
691.10	-9.94	713.23	-10.33	733.54	-10.96	754.09	-11.48	775.90	-12.17
796.32	-12.96	816.64	-13.62	836.72	-14.44	857.60	-15.03	877.74	-15.78
898.91	-16.44	919.03	-17.16	940.22	-17.81	960.27	-18.64	981.32	-19.42
1001.72	-20.01	1021.79	-20.60	1041.85	-21.10	1061.91	-21.56	1082.91	-22.01
1106.79	-22.44	1126.83	-22.83	1147.66	-23.13	1167.63	-23.46	1187.60	-23.79
1213.70	-24.11	1233.96	-24.61	1256.63	-24.84	1276.77	-25.26	1302.44	-25.62
1326.02	-26.02	1346.07	-26.41	1368.61	-26.80	1407.50	-26.97	1427.39	-27.66
1451.02	-27.99	1475.56	-28.54	1495.34	-28.87	1515.44	-29.20	1537.54	-29.59
1557.74	-29.99	1579.45	-30.31	1600.41	-30.58	1621.64	-30.91	1646.86	-31.20
1666.99	-31.59	1697.25	-31.73	1725.74	-32.32	1746.17	-32.55	1767.68	-32.78
1788.47	-33.04	1814.16	-33.20	1839.21	-33.43	1861.96	-33.73	1882.04	-33.92
1908.72	-33.92	1928.86	-34.15	1963.59	-34.28	1991.78	-34.45	2020.54	-34.65
2041.44	-34.91	2073.10	-35.07	2093.88	-35.24	2116.27	-35.24	2136.46	-35.37
2160.19	-35.24	2186.70	-35.33	2206.78	-35.56	2227.89	-35.70	2250.38	-35.73
2270.78	-36.02	2291.51	-36.15	2311.73	-36.84	2340.25	-37.17	2372.45	-37.20
2393.68	-37.11	2414.54	-37.47	2434.66	-37.30	2462.39	-37.07	2498.32	-37.30
2519.49	-37.30	2559.65	-37.30	2580.18	-36.94	2600.64	-37.14	2620.78	-37.57
2642.11	-37.63	2662.35	-38.48	2683.06	-38.91	2717.29	-39.14	2739.94	-39.44
2760.31	-39.07	2791.16	-37.20	2812.48	-36.52	2833.88	-37.57	2864.95	-37.70
2885.34	-39.99	2907.77	-42.62	2940.41	-43.50	2960.86	-44.19	2981.71	-45.05
R-6	1993	718507.34	958729.40	95.00	13.22				
29MAY24	31MAY24	140	00	29	111				

052.57	13.18	063.52	13.23	074.69	12.87	079.58	11.96	085.62	11.29
090.28	12.46	096.55	8.35	103.98	4.82	110.19	4.37	119.91	3.60
130.59	3.44	141.94	3.12	147.04	1.68	169.21	-1.06	184.97	-2.67
185.36	-2.26	189.10	-2.24	191.30	-0.81	199.28	-1.71	202.35	-0.23
205.14	-2.53	225.03	-2.66	249.29	-3.19	273.80	-3.88	294.01	-4.54
314.53	-5.38	340.59	-6.74	361.59	-7.63	378.66	-8.46	399.55	-8.69
421.04	-9.48	445.32	-9.84	465.90	-10.33	496.69	-10.07	525.76	-9.78
546.82	-11.48	568.80	-11.32	601.90	-11.25	623.58	-11.29	643.58	-11.06
666.15	-10.56	686.46	-10.01	709.16	-9.58	730.15	-9.38	750.18	-9.71
770.84	-10.24	791.40	-10.96	812.21	-11.75	832.45	-12.53	852.84	-13.29
873.43	-14.14	893.98	-14.83	914.59	-15.62	935.08	-16.27	955.28	-17.09

975.43	-17.72	996.41	-18.57	1017.53	-19.23	1039.24	-19.78	1060.67	-20.34
1084.05	-20.87	1104.34	-21.36	1126.75	-21.72	1154.69	-22.41	1177.43	-22.77
1198.45	-23.26	1218.94	-23.49	1239.61	-23.88	1261.51	-24.34	1284.31	-24.80
1305.74	-25.23	1325.77	-25.59	1347.12	-26.02	1372.93	-26.51	1393.47	-26.97
1413.59	-27.39	1433.74	-27.79	1454.00	-28.28	1474.61	-28.67	1496.29	-28.81
1522.73	-29.30	1543.91	-29.76	1567.73	-29.92	1589.41	-30.35	1611.69	-30.45
1632.19	-30.91	1657.26	-31.04	1683.76	-31.50	1713.60	-31.82	1736.39	-32.12
1757.57	-32.41	1779.23	-32.68	1800.26	-32.94	1823.82	-33.30	1851.40	-33.53
1871.56	-33.79	1899.33	-33.96	1923.06	-34.28	1943.78	-34.48	1966.86	-34.65
1987.24	-34.78	2008.38	-35.20	2045.48	-35.20	2082.25	-35.56	2102.50	-35.86
2132.24	-35.93	2160.43	-35.93	2180.50	-36.22	2213.78	-36.06	2238.72	-36.29
2263.71	-36.45	2286.99	-36.58	2308.78	-36.58	2338.48	-36.35	2359.60	-36.52
2379.73	-36.29	2401.62	-36.48	2423.06	-36.75	2443.37	-37.47	2471.78	-37.60
2493.11	-37.80	2519.93	-37.96	2541.66	-38.19	2567.09	-38.29	2588.22	-38.45
2613.72	-38.39	2638.20	-38.68	2664.30	-38.65	2698.67	-38.78	2719.02	-37.99
2752.52	-36.81	2780.44	-37.17	2811.15	-39.86	2831.31	-42.59	2851.41	-43.08
2871.95	-43.60	2892.29	-44.00	2912.70	-44.75	2941.20	-44.39	2979.04	-43.96
R-6+200		718307.45	958719.44	95.00					
	29MAY24	31MAY24	136 00	26 110					

001.29	12.30	001.88	12.35	021.63	13.06	061.02	13.62	068.25	13.59
075.49	12.36	078.85	12.23	083.67	7.60	086.04	6.56	095.25	5.55
104.87	4.53	124.02	3.03	132.91	1.27	145.99	-0.64	165.48	-2.70
188.20	-2.92	210.17	-2.97	234.55	-3.16	256.22	-3.93	272.07	-4.53
295.70	-5.49	309.63	-6.19	324.51	-6.98	341.29	-8.20	358.81	-8.56
370.38	-9.29	388.90	-9.38	411.28	-9.91	432.77	-10.27	454.77	-10.60
474.72	-11.22	511.95	-11.32	544.01	-12.50	570.79	-12.57	602.04	-12.14
622.72	-11.75	645.86	-11.06	666.19	-10.01	687.58	-9.09	708.10	-8.73
728.52	-8.86	749.19	-9.48	770.20	-10.17	790.71	-11.02	811.20	-11.75
831.34	-12.60	851.48	-13.35	871.64	-14.01	891.88	-14.86	912.66	-15.55
932.77	-16.27	953.19	-17.06	973.44	-17.81	993.51	-18.50	1013.82	-19.23
1034.05	-19.88	1054.25	-20.31	1075.79	-20.73	1098.04	-21.36	1128.22	-21.75
1153.13	-22.31	1174.07	-22.70	1195.96	-23.13	1216.39	-23.65	1236.45	-24.08
1261.06	-24.48	1281.42	-25.07	1308.09	-25.46	1328.18	-25.85	1348.76	-26.41
1372.97	-26.97	1397.04	-27.46	1418.08	-27.82	1439.19	-28.15	1461.38	-28.48
1481.55	-28.77	1501.65	-29.23	1521.82	-29.69	1542.53	-30.02	1566.21	-30.31
1586.25	-30.54	1606.33	-30.71	1626.93	-31.07	1646.94	-31.53	1668.23	-31.73
1691.84	-31.99	1714.95	-32.35	1736.37	-32.48	1768.24	-32.78	1788.27	-33.10
1812.79	-33.23	1844.24	-33.50	1867.92	-33.76	1897.10	-33.99	1921.68	-34.19
1952.59	-34.45	1972.91	-34.68	2001.48	-34.78	2027.08	-35.01	2059.14	-35.24
2083.08	-35.40	2110.88	-35.53	2136.78	-35.56	2162.59	-35.79	2194.20	-35.96
2220.88	-36.09	2245.79	-36.29	2284.62	-36.32	2305.17	-36.55	2339.40	-36.61
2360.93	-36.71	2396.99	-36.78	2433.29	-36.97	2463.18	-37.04	2486.45	-36.94
2515.93	-37.43	2537.17	-38.02	2568.17	-38.55	2591.00	-38.94	2611.05	-39.11
2639.42	-38.98	2659.64	-39.76	2679.89	-39.96	2701.70	-41.17	2722.59	-41.47
2752.43	-41.24	2772.59	-40.45	2794.79	-37.01	2820.62	-37.20	2841.64	-39.27
2871.30	-40.29	2891.17	-41.34	2918.10	-42.39	2941.03	-42.49	2961.68	-43.08
2982.02	-43.50								
R-6+400		718107.55	958709.49	95.00					
	29MAY24	31MAY24	141 00	28 113					

-007.45	12.87	-006.91	12.83	010.51	12.32	030.71	13.28	050.78	14.28
056.01	14.13	062.50	13.17	064.11	12.94	067.93	9.28	075.21	6.76
086.27	4.64	089.88	4.38	101.19	3.58	111.19	3.09	124.66	1.61
140.20	-0.43	163.63	-2.62	169.69	-2.60	170.72	-0.77	182.79	-1.82
184.82	-3.34	205.27	-3.25	231.21	-3.57	252.36	-4.28	279.06	-5.44
300.02	-6.63	314.98	-7.08	335.37	-8.33	353.29	-9.06	373.75	-9.84
393.85	-10.40	416.49	-11.02	436.55	-11.52	458.69	-12.11	483.17	-12.47
514.38	-12.60	552.99	-12.47	573.78	-11.88	594.41	-10.83	615.16	-9.42
635.28	-8.14	656.19	-7.78	678.63	-7.97	702.04	-8.53	722.21	-9.25
742.82	-9.88	762.83	-10.53	785.32	-11.42	807.45	-12.11	827.50	-12.89
847.78	-13.62	868.62	-14.30	888.85	-15.03	909.15	-15.81	930.12	-16.54
950.95	-17.22	971.25	-17.98	992.06	-18.73	1015.55	-19.49	1035.80	-20.14
1057.57	-20.64	1080.17	-21.23	1101.64	-21.62	1121.85	-22.08	1142.12	-22.38
1162.44	-22.77	1183.17	-23.26	1205.43	-23.59	1228.83	-24.08	1249.13	-24.44
1269.29	-24.97	1289.45	-25.36	1309.83	-25.85	1329.86	-26.18	1351.58	-26.74
1372.00	-27.10	1392.44	-27.49	1419.23	-27.95	1440.68	-28.41	1463.01	-28.74
1484.53	-29.13	1509.35	-29.49	1529.48	-29.76	1549.85	-30.12	1581.77	-30.48
1602.25	-30.91	1623.91	-31.17	1657.55	-31.50	1682.73	-31.99	1704.92	-32.32
1732.52	-32.61	1755.48	-33.07	1781.17	-33.30	1808.37	-33.66	1830.10	-33.86
1857.32	-34.15	1878.35	-34.55	1909.48	-34.55	1932.81	-34.78	1954.17	-34.65
1976.82	-34.94	2011.95	-35.10	2032.88	-35.37	2053.69	-35.30	2074.37	-35.47
2097.11	-35.56	2123.09	-35.70	2149.72	-35.79	2171.71	-35.99	2194.66	-36.19
2218.10	-36.22	2253.66	-36.42	2273.83	-36.65	2295.44	-36.61	2317.27	-36.61
2337.38	-36.52	2365.60	-36.75	2390.44	-37.11	2429.99	-37.37	2463.70	-37.53
2484.49	-37.40	2505.05	-37.80	2526.25	-38.06	2550.39	-38.25	2573.56	-38.25
2593.54	-38.48	2617.08	-38.94	2647.17	-39.50	2667.27	-39.96	2698.00	-40.12
2718.80	-40.49	2746.56	-40.85	2767.33	-41.17	2787.63	-41.08	2811.38	-41.27
2836.17	-41.01	2866.90	-38.94	2895.91	-41.70	2931.99	-41.83	2955.73	-42.85
2978.49	-43.24								

R-6.5 717977.62 958703.01 95.00
29MAY24 31MAY24 147 00 28 119

-013.18	14.09	-012.54	13.93	009.68	13.86	020.81	13.65	028.89	13.57
035.18	13.51	045.53	12.80	050.25	11.71	055.25	10.22	056.90	9.51
059.07	7.61	064.76	6.20	075.20	5.09	090.48	3.85	099.10	3.03
105.11	1.70	121.50	-0.63	145.19	-2.72	166.80	-2.95	189.22	-3.04
203.74	-3.07	222.80	-3.54	241.94	-4.22	263.60	-5.08	284.91	-6.28
304.77	-7.37	324.58	-8.40	341.70	-9.15	358.97	-9.74	378.91	-10.33
399.70	-10.89	421.08	-11.55	441.30	-12.01	461.44	-12.57	483.25	-12.89
503.77	-13.02	524.91	-12.89	548.42	-12.27	569.87	-10.83	590.76	-8.63
612.07	-7.41	632.79	-7.19	653.03	-7.61	673.32	-8.10	693.80	-8.76
714.91	-9.55	735.15	-10.14	755.63	-10.79	776.09	-11.45	796.43	-12.24
816.67	-12.93	837.00	-13.58	858.63	-14.27	879.44	-15.06	899.71	-15.75
919.69	-16.37	939.70	-17.13	959.76	-17.85	979.88	-18.60	999.98	-19.36
1020.29	-20.05	1040.58	-20.51	1060.57	-21.03	1081.94	-21.39	1102.14	-21.85
1122.28	-22.31	1142.47	-22.74	1163.07	-23.10	1184.87	-23.52	1205.16	-23.95
1225.46	-24.25	1247.15	-24.64	1267.34	-25.10	1290.92	-25.52	1311.33	-25.98
1331.41	-26.38	1351.72	-26.77	1372.50	-27.20	1392.77	-27.59	1412.77	-28.08
1432.79	-28.41	1453.09	-28.81	1477.14	-29.13	1497.75	-29.59	1523.17	-29.89

1543.33	-30.28	1565.46	-30.58	1585.41	-30.91	1605.09	-31.27	1625.97	-31.53
1646.31	-31.82	1666.43	-32.12	1687.22	-32.38	1708.04	-32.68	1728.29	-32.91
1748.71	-33.23	1768.88	-33.37	1788.96	-33.66	1809.56	-33.92	1835.46	-34.06
1855.70	-34.19	1886.03	-34.32	1910.62	-34.58	1933.75	-34.71	1963.12	-34.81
1996.44	-35.07	2016.55	-35.27	2038.20	-35.50	2065.75	-35.60	2091.49	-35.76
2113.32	-35.96	2138.23	-36.06	2158.97	-36.25	2182.23	-36.52	2215.84	-36.52
2242.62	-36.61	2265.51	-36.84	2294.12	-37.11	2331.70	-37.27	2352.38	-37.24
2377.60	-37.11	2410.77	-37.11	2430.84	-37.27	2451.98	-37.34	2472.86	-37.43
2500.31	-37.50	2526.70	-38.09	2549.24	-38.39	2571.75	-38.75	2593.35	-39.11
2618.06	-39.44	2656.37	-39.86	2677.63	-40.81	2698.29	-40.98	2722.89	-41.08
2745.05	-41.24	2767.88	-41.17	2795.86	-41.08	2816.80	-40.94	2839.80	-40.75
2866.93	-40.58	2887.38	-39.17	2907.63	-40.91	2935.68	-40.62	2955.83	-41.77
2978.96	-42.36	2999.44	-42.59						
R-6+665		717842.70	958696.29	95.00					
29MAY24	31MAY24	148	00	30	118				

-019.28	14.70	-018.50	14.76	003.01	14.57	020.67	14.65	021.66	16.05
047.36	15.97	048.43	14.34	057.90	14.11	065.62	12.82	070.19	10.02
076.26	10.20	082.82	5.66	084.55	3.51	086.86	2.66	088.12	2.87
088.80	1.25	091.07	0.87	102.61	-0.72	123.22	-2.55	143.03	-3.01
160.69	-2.82	179.26	-2.50	200.62	-3.04	224.57	-3.87	246.90	-4.72
263.70	-5.49	286.34	-6.62	304.25	-7.48	320.28	-8.51	329.55	-8.87
341.61	-9.06	362.98	-9.51	384.82	-10.24	405.43	-10.93	428.19	-11.68
450.52	-12.20	471.45	-12.66	491.82	-12.89	513.20	-12.96	533.35	-12.53
553.85	-11.55	574.06	-9.09	594.29	-7.48	614.98	-7.09	635.91	-7.35
656.55	-7.91	677.55	-8.50	698.31	-9.19	718.53	-9.84	741.67	-10.60
762.53	-11.32	784.52	-12.01	806.19	-12.76	827.29	-13.32	848.18	-14.04
868.92	-14.73	890.29	-15.52	910.34	-16.24	931.68	-16.99	952.73	-17.78
972.93	-18.57	994.30	-19.29	1016.58	-19.91	1037.65	-20.44	1058.13	-20.96
1078.71	-21.36	1098.91	-21.75	1119.54	-22.21	1142.70	-22.60	1163.72	-23.16
1184.08	-23.56	1208.62	-23.98	1229.93	-24.41	1252.97	-24.93	1273.32	-25.36
1294.93	-25.79	1315.53	-26.21	1335.69	-26.67	1358.46	-27.03	1379.58	-27.56
1399.67	-28.02	1420.63	-28.54	1440.96	-28.90	1462.40	-29.23	1482.90	-29.72
1503.16	-30.09	1523.91	-30.31	1546.64	-30.68	1569.87	-31.14	1589.99	-31.36
1610.37	-31.82	1632.35	-32.05	1652.59	-32.38	1672.60	-32.71	1695.05	-33.04
1717.72	-33.23	1740.46	-33.56	1769.80	-33.86	1790.15	-34.19	1813.17	-34.42
1833.43	-34.55	1861.11	-34.88	1892.59	-35.01	1913.44	-35.20	1934.58	-35.37
1956.12	-35.40	1977.97	-35.56	1997.99	-35.56	2021.48	-35.89	2042.08	-35.86
2063.40	-36.09	2085.63	-36.09	2109.07	-36.25	2133.34	-36.42	2156.83	-36.55
2190.46	-36.75	2211.68	-36.88	2238.51	-37.20	2260.34	-37.43	2299.01	-37.63
2320.07	-37.57	2340.00	-37.50	2372.56	-37.57	2408.22	-37.66	2429.28	-37.86
2450.59	-38.02	2486.59	-38.16	2507.51	-38.32	2533.06	-38.71	2554.41	-39.04
2576.52	-38.94	2596.69	-38.45	2616.44	-38.39	2636.85	-38.22	2657.50	-37.83
2677.56	-38.65	2703.01	-39.40	2729.50	-39.63	2755.96	-40.03	2777.42	-40.32
2799.25	-40.58	2819.43	-41.21	2857.62	-38.52	2880.16	-39.53	2903.80	-42.62
2931.25	-43.21	2955.38	-42.85	2976.19	-43.50				
R-6+750		717757.74	958692.06	95.00					
29MAY24	31MAY24	144	00	27	117				

-027.59	15.20	-026.74	15.22	-020.98	15.53	-011.09	15.75	-002.38	15.32
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005.14	11.48	020.12	7.51	026.06	5.08	029.25	4.69	039.86	4.28
049.91	3.60	059.16	3.19	079.83	1.98	100.94	0.11	124.03	-1.71
131.47	-2.20	133.83	-0.20	137.98	-2.50	157.84	-3.02	180.68	-2.99
204.25	-3.41	228.83	-4.13	252.16	-4.87	275.44	-6.26	296.55	-7.07
310.74	-7.55	328.34	-8.90	343.84	-9.12	363.86	-9.68	384.57	-10.33
407.30	-11.02	428.91	-11.65	448.91	-12.14	469.50	-12.53	489.58	-12.83
509.63	-12.80	529.62	-12.43	549.68	-11.38	569.82	-9.12	590.00	-7.38
610.08	-6.99	630.69	-7.35	650.88	-7.87	673.19	-8.53	694.71	-9.25
715.33	-9.88	737.76	-10.60	758.50	-11.25	779.93	-11.94	800.76	-12.57
821.02	-13.16	841.32	-13.94	862.42	-14.67	884.14	-15.35	904.50	-16.14
924.75	-16.90	945.58	-17.65	966.43	-18.34	986.71	-19.16	1007.89	-19.85
1029.26	-20.37	1049.86	-20.87	1071.25	-21.36	1093.19	-21.78	1113.18	-22.18
1134.26	-22.74	1154.50	-23.13	1177.17	-23.56	1198.22	-24.02	1220.07	-24.34
1241.82	-24.87	1265.54	-25.36	1285.59	-25.95	1306.00	-26.38	1328.87	-26.90
1350.19	-27.26	1371.07	-27.76	1398.54	-28.25	1418.90	-28.81	1441.17	-29.27
1463.38	-29.63	1483.40	-30.02	1508.50	-30.45	1534.91	-30.77	1557.11	-31.17
1577.91	-31.63	1598.94	-31.92	1619.28	-32.18	1642.16	-32.48	1662.67	-32.87
1684.89	-33.20	1704.96	-33.50	1726.25	-33.83	1748.82	-34.15	1775.70	-34.42
1797.08	-34.74	1818.29	-34.97	1843.78	-35.10	1876.45	-35.43	1899.09	-35.79
1921.17	-35.99	1941.44	-36.15	1962.36	-36.32	1987.47	-36.38	2014.07	-36.52
2034.35	-36.52	2069.69	-36.58	2091.70	-36.68	2113.36	-36.81	2136.21	-36.88
2156.44	-36.91	2183.51	-37.04	2207.70	-37.20	2231.37	-37.27	2251.85	-37.24
2273.92	-37.43	2294.74	-37.40	2315.64	-37.53	2337.11	-37.66	2360.72	-37.50
2396.30	-37.70	2426.75	-37.80	2458.18	-37.93	2478.27	-37.76	2504.88	-37.80
2529.13	-37.89	2549.11	-37.89	2569.60	-38.12	2590.07	-38.19	2617.73	-38.45
2643.91	-38.48	2663.99	-38.22	2684.04	-38.16	2709.83	-38.81	2741.39	-39.21
2766.93	-39.44	2801.06	-39.89	2823.54	-40.75	2844.39	-41.60	2865.60	-42.81
2889.01	-43.80	2911.43	-44.36	2932.47	-44.85	2967.70	-44.75		
R-7	1974	717444.77	958676.47	95.00	10.70				
	31MAY24	31MAY24	144 00 20 124						

-019.84	10.91	-010.95	10.71	000.19	10.52	000.68	10.91	002.02	10.90
002.70	6.03	007.36	5.87	015.11	5.26	025.13	4.73	034.41	3.82
044.54	3.47	059.67	1.51	074.63	-0.30	093.45	-2.08	122.59	-2.63
151.07	-2.83	180.48	-3.14	204.55	-3.88	227.23	-4.70	239.93	-5.27
253.81	-5.94	274.00	-7.12	294.20	-8.17	316.92	-8.73	339.18	-9.22
359.47	-9.68	382.84	-10.04	406.24	-10.43	428.20	-10.93	448.71	-11.48
469.00	-11.94	491.32	-12.17	511.97	-12.14	532.88	-11.75	553.05	-10.79
573.15	-8.92	593.17	-7.48	613.27	-7.02	634.55	-7.38	654.56	-7.91
675.72	-8.46	696.44	-9.12	717.83	-9.88	738.73	-10.50	758.63	-11.09
778.62	-11.81	799.22	-12.40	819.24	-13.06	839.74	-13.75	861.43	-14.44
881.27	-15.26	902.45	-16.04	922.54	-16.90	942.59	-17.59	965.05	-18.37
985.14	-19.23	1005.23	-19.82	1025.35	-20.34	1045.34	-20.83	1065.60	-21.23
1086.38	-21.65	1106.61	-22.11	1126.84	-22.60	1147.12	-23.00	1167.88	-23.49
1187.98	-23.95	1208.12	-24.41	1228.31	-24.84	1248.52	-25.30	1268.71	-25.75
1288.92	-26.15	1308.88	-26.57	1328.96	-27.07	1349.10	-27.56	1369.48	-28.12
1389.99	-28.61	1410.15	-28.97	1430.75	-29.53	1453.09	-30.02	1473.20	-30.48
1493.37	-30.91	1513.57	-31.40	1533.96	-31.69	1554.79	-32.25	1574.70	-32.61
1594.79	-32.91	1614.77	-33.33	1634.84	-33.76	1655.34	-34.15	1675.37	-34.61
1695.87	-35.10	1716.76	-35.50	1736.88	-35.99	1758.36	-36.48	1778.34	-37.01

1799.79	-37.40	1820.95	-37.93	1842.08	-38.45	1862.10	-38.75	1887.15	-38.94
1907.30	-39.21	1928.72	-39.44	1949.36	-39.67	1969.97	-39.86	1994.77	-40.06
2015.33	-40.26	2036.37	-40.12	2058.72	-40.42	2080.54	-40.62	2101.37	-40.94
2121.49	-41.24	2145.19	-41.08	2178.64	-40.72	2214.80	-40.85	2247.56	-41.08
2281.22	-41.08	2302.55	-41.11	2323.18	-41.37	2354.89	-41.27	2376.74	-41.17
2402.78	-40.75	2433.30	-40.81	2472.52	-40.98	2495.88	-40.94	2519.65	-40.85
2554.92	-40.72	2590.36	-40.52	2610.48	-40.78	2641.26	-40.35	2663.93	-40.88
2685.86	-40.81	2715.51	-40.75	2742.15	-41.50	2767.98	-40.85	2794.06	-40.49
2815.13	-37.66	2835.77	-37.43	2856.07	-38.48	2876.09	-42.68	2896.59	-43.90
2918.47	-44.13	2938.49	-43.41	2961.77	-42.85	2983.69	-42.78		

R-7+500 717006.44 958638.12 95.00

31MAY24 31MAY24 142 00 20 122

-025.44	12.49	-005.71	11.75	004.22	11.24	004.98	11.36	006.43	11.41
007.12	9.18	015.10	6.31	025.11	5.33	034.91	4.98	051.60	3.51
060.94	3.41	077.06	1.31	095.74	-1.09	117.33	-2.36	143.23	-2.72
172.44	-2.83	199.84	-3.22	222.46	-4.06	250.17	-5.15	264.94	-5.93
283.73	-7.09	304.51	-8.17	325.77	-8.89	346.83	-9.55	367.36	-9.94
388.67	-10.37	411.03	-10.63	432.62	-10.99	457.04	-11.48	478.65	-11.98
503.50	-12.30	527.54	-12.47	547.64	-12.01	567.68	-11.06	587.77	-9.15
607.86	-7.41	628.29	-6.86	649.39	-7.12	669.53	-7.68	690.34	-8.27
711.55	-8.89	731.67	-9.58	753.74	-10.27	775.59	-11.06	796.58	-11.78
818.41	-12.50	838.44	-13.22	858.53	-13.91	879.53	-14.57	899.51	-15.35
920.21	-16.11	941.16	-16.93	962.04	-17.72	982.09	-18.41	1006.83	-19.09
1026.67	-19.69	1046.36	-20.11	1066.51	-20.57	1086.68	-20.93	1107.22	-21.42
1130.00	-21.78	1154.58	-22.28	1175.30	-22.83	1195.30	-23.29	1215.51	-23.75
1236.12	-24.21	1256.83	-24.80	1277.22	-25.30	1298.53	-25.85	1318.61	-26.44
1338.56	-27.03	1359.38	-27.56	1379.29	-28.12	1399.44	-28.54	1419.48	-29.13
1442.65	-29.79	1462.85	-30.38	1484.44	-30.97	1505.07	-31.59	1525.16	-32.35
1551.69	-33.04	1571.71	-33.73	1593.96	-34.35	1615.05	-34.97	1635.13	-35.66
1655.60	-36.25	1675.98	-37.01	1697.36	-37.63	1717.83	-38.25	1740.12	-38.91
1760.24	-39.53	1780.34	-40.03	1800.71	-40.45	1823.18	-40.85	1843.18	-41.60
1867.78	-41.96	1887.88	-42.22	1909.05	-42.62	1929.14	-43.21	1956.77	-43.11
1978.38	-42.78	1999.15	-41.90	2036.90	-41.08	2059.05	-40.35	2095.26	-40.12
2126.57	-39.67	2158.56	-39.67	2180.00	-39.89	2204.29	-39.89	2233.53	-40.06
2255.45	-39.86	2279.36	-40.78	2308.21	-40.68	2329.58	-40.72	2349.87	-40.94
2372.29	-41.27	2392.12	-41.57	2428.02	-41.80	2448.55	-41.96	2469.36	-41.67
2490.72	-42.09	2512.36	-42.16	2543.13	-42.26	2567.40	-42.59	2604.68	-42.78
2625.20	-43.31	2646.87	-43.57	2684.98	-43.08	2706.41	-42.72	2726.62	-38.91
2746.63	-35.20	2766.69	-35.86	2786.82	-36.45	2811.85	-37.83	2831.32	-39.04
2850.91	-40.29	2870.87	-41.47	2896.71	-42.29	2919.10	-42.59	2941.13	-43.77
2961.54	-44.32	2982.32	-45.14						

R-8 1974 716565.03 958597.09 95.00 11.71

31MAY24 31MAY24 140 00 23 117

-035.43	13.34	-017.72	13.02	-004.61	12.31	000.40	11.61	001.91	11.52
002.47	9.72	010.03	8.76	016.15	6.83	029.96	5.55	039.95	5.56
051.22	5.03	064.44	3.78	076.27	2.21	092.77	0.12	107.67	-1.63
130.23	-2.59	161.21	-2.77	185.82	-2.92	207.82	-3.20	231.96	-3.93
253.08	-4.87	273.61	-5.95	292.07	-7.11	303.82	-7.71	324.67	-8.37

344.86	-8.92	367.26	-9.51	387.70	-10.04	408.26	-10.50	428.73	-10.93
448.85	-11.52	469.90	-11.98	490.21	-12.34	513.50	-12.70	544.77	-12.50
564.66	-11.61	584.79	-9.12	604.86	-7.32	625.00	-6.79	645.42	-7.05
666.69	-7.51	687.22	-8.10	708.12	-8.60	728.06	-9.25	749.06	-9.81
769.12	-10.47	789.67	-11.35	809.69	-11.75	830.12	-12.43	850.63	-13.19
870.95	-13.81	891.17	-14.53	911.41	-15.22	932.11	-16.01	953.98	-16.86
975.53	-17.85	995.73	-18.67	1014.30	-19.13	1034.52	-19.69	1055.19	-20.34
1075.59	-20.77	1096.16	-21.19	1118.18	-21.72	1139.31	-22.28	1159.83	-22.74
1180.45	-23.20	1204.63	-23.69	1225.47	-24.25	1246.16	-24.74	1267.34	-25.33
1288.66	-25.92	1309.77	-26.51	1330.43	-27.10	1352.13	-27.69	1372.81	-28.31
1393.91	-28.77	1418.43	-29.33	1440.02	-29.95	1460.10	-30.54	1480.78	-31.07
1500.87	-31.73	1521.68	-32.45	1541.97	-33.01	1563.16	-33.63	1583.65	-34.48
1603.67	-35.07	1625.07	-35.66	1645.29	-36.42	1665.54	-36.97	1685.69	-37.50
1706.20	-38.06	1729.67	-38.58	1751.01	-39.34	1771.39	-39.86	1801.54	-40.42
1822.43	-40.81	1843.29	-41.14	1864.32	-41.57	1890.80	-41.90	1911.45	-42.19
1931.64	-42.91	1955.67	-43.27	1984.62	-42.98	2005.43	-42.75	2030.96	-42.06
2059.58	-41.93	2082.34	-40.98	2102.81	-39.99	2127.83	-39.80	2167.97	-39.60
2204.35	-39.40	2236.67	-39.14	2274.22	-39.89	2295.54	-39.83	2323.62	-39.99
2356.88	-40.09	2377.97	-40.26	2414.97	-40.62	2441.50	-41.31	2472.94	-41.34
2511.25	-41.83	2545.93	-42.03	2580.43	-41.86	2614.85	-42.49	2635.08	-42.65
2669.26	-42.95	2692.50	-42.72	2721.65	-42.75	2741.72	-41.93	2766.00	-38.16
2786.08	-35.79	2808.77	-34.74	2840.35	-36.61	2860.34	-37.76	2883.93	-38.22
2903.95	-40.26	2927.81	-42.22	2948.08	-42.72	2969.68	-43.57	2995.96	-44.36

R-8.5 716049.25 958497.17 95.00

31MAY24 31MAY24 139 00 22 117

-012.17	13.40	-004.55	12.92	004.78	12.55	024.00	11.47	025.74	11.36
026.78	9.47	040.34	8.44	060.15	8.51	070.16	7.90	081.85	6.00
089.00	5.43	102.85	3.97	117.33	2.71	134.16	0.66	150.70	-1.35
173.48	-2.66	195.78	-2.78	222.55	-3.04	246.45	-3.34	271.01	-4.01
294.92	-5.17	315.46	-6.28	328.42	-7.02	348.83	-7.91	370.26	-8.60
393.47	-9.12	414.53	-9.61	436.49	-10.01	456.52	-10.40	478.03	-10.56
498.62	-10.96	519.52	-11.38	540.50	-11.88	560.77	-12.24	581.43	-12.63
613.95	-12.83	634.47	-12.47	654.83	-11.32	675.10	-9.45	695.23	-7.68
715.93	-7.32	738.38	-7.78	759.32	-8.37	779.51	-9.06	802.00	-9.68
823.44	-10.50	846.60	-11.29	867.45	-12.07	887.55	-12.73	908.41	-13.48
928.72	-14.24	949.09	-14.96	969.30	-15.78	990.21	-16.67	1010.66	-17.49
1031.23	-18.31	1051.49	-19.23	1072.27	-19.82	1093.67	-20.18	1117.36	-20.70
1137.79	-21.29	1158.17	-21.85	1178.25	-22.28	1198.23	-22.64	1218.19	-23.06
1238.39	-23.52	1259.00	-23.95	1282.69	-24.61	1302.84	-25.13	1323.28	-25.69
1343.33	-26.35	1363.62	-26.80	1384.29	-27.33	1404.39	-27.89	1424.89	-28.44
1445.18	-29.04	1465.28	-29.59	1485.36	-30.25	1505.51	-30.74	1525.56	-31.33
1546.13	-31.92	1566.14	-32.58	1586.32	-33.23	1606.48	-33.86	1627.78	-34.35
1655.29	-35.40	1675.51	-36.22	1695.66	-36.81	1716.12	-37.50	1736.67	-38.16
1756.69	-38.78	1780.24	-39.40	1800.38	-40.29	1821.16	-40.91	1841.24	-41.47
1861.30	-42.09	1895.11	-42.39	1916.75	-43.41	1938.58	-43.73	1958.87	-44.32
1981.93	-44.82	2020.55	-44.59	2050.66	-44.03	2084.95	-43.47	2121.53	-43.34
2153.34	-42.36	2177.69	-41.99	2198.53	-41.57	2227.58	-41.17	2248.67	-40.94
2270.41	-40.98	2302.57	-40.19	2324.30	-40.78	2347.75	-40.35	2368.36	-40.58
2393.74	-39.83	2418.86	-40.26	2447.49	-40.45	2471.02	-40.16	2499.44	-40.39

2523.89	-40.42	2544.06	-40.85	2565.67	-40.26	2601.12	-40.49	2621.07	-40.85
2644.43	-40.85	2677.45	-41.11	2699.62	-40.75	2721.08	-40.85	2741.16	-40.98
2769.00	-41.60	2798.91	-41.83	2826.17	-40.65	2854.08	-40.98	2876.17	-40.81
2903.69	-40.81	2936.80	-41.14	2958.17	-37.93	2987.27	-38.52		
R-9	1996	715533.47	958397.24	95.00	14.06				
	31MAY24	31MAY24	145 00 30 115						

005.19	14.36	025.22	13.45	045.77	12.75	053.69	12.66	054.56	12.12
055.30	11.58	056.38	10.92	057.15	10.31	057.94	9.71	059.02	9.27
059.29	8.93	066.26	8.56	080.13	8.25	100.49	7.96	119.98	7.45
130.25	6.60	138.35	4.98	148.57	3.86	164.16	3.73	168.76	3.27
181.87	1.41	194.68	-0.38	211.91	-2.24	231.58	-2.71	255.73	-2.83
276.39	-2.74	302.31	-3.11	322.36	-3.74	342.69	-4.37	356.85	-5.18
373.20	-5.87	393.52	-6.79	414.41	-7.64	434.40	-8.63	455.23	-9.45
475.48	-10.17	497.90	-10.70	520.57	-11.15	540.67	-11.45	567.58	-11.75
588.40	-12.01	608.55	-12.34	629.62	-12.57	665.37	-12.66	696.57	-12.60
716.92	-12.27	738.06	-11.98	758.50	-11.55	779.08	-10.79	799.21	-9.74
819.57	-8.53	839.59	-8.01	860.06	-8.46	880.06	-9.02	900.15	-9.81
920.82	-10.79	941.03	-11.75	962.08	-12.63	982.63	-13.52	1003.50	-14.47
1023.49	-15.45	1044.43	-16.24	1064.61	-17.26	1084.64	-18.11	1105.26	-19.00
1125.75	-19.82	1147.64	-20.34	1167.72	-20.87	1189.41	-21.46	1210.14	-21.92
1230.71	-22.41	1253.09	-22.80	1274.09	-23.29	1294.01	-23.75	1314.84	-24.34
1335.67	-24.87	1357.20	-25.39	1377.83	-26.12	1399.28	-26.57	1421.45	-27.10
1442.88	-27.76	1464.07	-28.25	1492.06	-28.94	1511.92	-29.72	1533.66	-30.18
1553.70	-30.77	1573.69	-31.36	1595.03	-31.96	1615.24	-32.61	1635.79	-33.20
1655.80	-33.83	1678.80	-34.51	1698.91	-35.24	1719.70	-36.02	1741.92	-36.78
1763.72	-37.40	1784.53	-37.89	1805.82	-38.42	1826.18	-38.98	1847.71	-39.60
1868.54	-40.16	1888.99	-40.75	1909.48	-41.27	1930.53	-41.73	1965.33	-41.60
1987.52	-42.52	2007.79	-42.78	2027.80	-42.75	2047.87	-42.52	2081.76	-42.39
2101.77	-42.03	2135.45	-41.21	2160.64	-41.54	2181.21	-41.34	2201.28	-40.65
2226.58	-40.81	2247.18	-40.62	2268.01	-40.29	2288.63	-39.89	2310.44	-39.21
2335.66	-39.60	2358.09	-39.21	2394.03	-39.40	2433.52	-39.24	2471.73	-39.14
2506.78	-38.88	2531.19	-38.85	2553.41	-38.55	2574.14	-38.52	2595.96	-38.16
2620.16	-38.02	2642.80	-37.63	2663.30	-37.57	2692.70	-37.53	2720.11	-38.39
2742.82	-38.25	2776.90	-38.75	2804.11	-39.04	2825.15	-39.40	2851.95	-39.57
2872.35	-39.80	2901.85	-39.86	2934.31	-39.99	2970.74	-39.93	2990.75	-39.44
R-9.5		715029.08	958362.46	95.00					
	31MAY24	31MAY24	139 00 23 116						

020.10	8.51	026.98	8.41	039.16	9.37	046.26	10.59	054.14	11.08
058.75	9.68	063.12	8.90	074.73	8.27	091.71	7.75	103.35	6.00
110.34	5.53	119.96	5.58	128.09	5.39	143.41	4.01	160.67	1.64
177.62	-0.54	197.97	-2.33	221.35	-2.72	243.16	-2.87	265.35	-3.09
287.33	-3.72	307.52	-4.40	319.61	-4.90	332.32	-5.51	353.01	-6.66
373.12	-7.61	393.40	-8.37	413.61	-9.06	433.63	-9.58	454.17	-9.97
474.32	-10.37	496.02	-10.73	517.01	-11.09	539.98	-11.55	560.05	-11.98
583.14	-12.57	608.42	-12.93	634.52	-13.62	656.04	-13.71	677.01	-13.32
698.72	-12.37	718.95	-10.10	738.96	-7.74	759.42	-7.19	779.88	-7.45
800.21	-7.97	821.15	-8.63	843.49	-9.32	863.87	-10.04	883.85	-10.73
904.23	-11.45	924.05	-12.17	944.09	-12.89	964.64	-13.68	984.68	-14.63

1004.40	-15.32	1025.97	-16.31	1048.40	-17.32	1068.48	-18.21	1088.73	-19.13
1108.74	-19.82	1128.58	-20.54	1148.69	-21.19	1169.08	-21.85	1189.41	-22.44
1209.51	-22.93	1230.84	-23.46	1251.04	-24.02	1275.29	-24.57	1295.34	-25.16
1319.44	-25.75	1340.28	-26.38	1363.88	-27.03	1384.99	-27.56	1408.66	-28.15
1428.65	-29.00	1449.70	-29.46	1469.91	-29.92	1490.46	-30.54	1515.13	-31.17
1536.08	-31.76	1556.38	-32.35	1576.20	-32.64	1596.17	-33.14	1618.84	-33.43
1638.78	-33.89	1664.23	-34.35	1687.76	-34.78	1708.84	-35.17	1731.51	-35.43
1755.32	-35.73	1775.80	-35.99	1797.43	-36.25	1826.71	-36.52	1852.29	-36.97
1872.55	-37.07	1895.61	-37.24	1916.80	-37.34	1952.16	-37.34	1976.97	-37.24
2016.47	-37.17	2039.41	-37.27	2059.61	-37.14	2086.82	-36.94	2112.82	-36.68
2139.83	-36.58	2160.60	-36.48	2187.64	-36.22	2219.01	-35.86	2250.80	-36.25
2270.56	-36.65	2290.89	-36.48	2319.81	-36.45	2344.73	-36.15	2383.86	-36.15
2407.70	-36.15	2430.59	-36.02	2464.95	-35.66	2485.10	-35.89	2509.88	-35.99
2530.15	-36.09	2556.89	-35.96	2585.70	-36.15	2605.74	-36.42	2631.62	-36.35
2653.39	-36.84	2674.23	-37.86	2695.54	-38.02	2717.67	-37.93	2749.80	-37.27
2780.00	-37.04	2811.31	-37.93	2831.33	-37.93	2861.40	-37.93	2896.73	-38.02
2918.32	-36.61	2938.87	-37.34	2959.55	-35.89	2980.55	-36.68		

R-10	1974	714524.69	958327.69	95.00	12.91
	31MAY24	31MAY24	137 00 18 119		

031.25	11.50	036.79	11.29	039.60	9.24	045.21	8.65	065.95	6.90
075.65	5.98	095.12	5.16	105.14	5.47	114.30	5.00	128.15	3.06
143.98	1.07	159.06	-0.95	170.67	-2.55	191.95	-3.13	215.15	-3.53
238.96	-3.65	263.95	-3.70	285.12	-4.16	299.75	-4.53	321.85	-5.58
342.08	-6.79	363.14	-7.94	383.65	-8.83	403.94	-9.51	424.03	-10.01
448.91	-10.47	469.92	-10.86	491.02	-11.12	513.06	-11.38	533.18	-11.71
558.01	-11.84	578.84	-12.11	600.17	-12.43	620.75	-12.80	654.13	-13.06
677.56	-12.93	698.00	-12.34	718.21	-11.22	738.07	-9.65	758.07	-8.04
778.09	-7.58	798.03	-7.94	818.30	-8.53	839.21	-9.35	859.68	-10.20
880.21	-11.06	901.07	-11.81	921.12	-12.63	941.68	-13.48	962.41	-14.34
982.71	-15.19	1003.01	-16.01	1023.12	-16.90	1043.80	-17.91	1064.37	-18.86
1084.38	-19.78	1104.78	-20.70	1125.24	-21.59	1146.23	-22.05	1168.84	-22.74
1197.29	-23.26	1217.36	-24.02	1239.06	-24.61	1259.74	-25.07	1280.20	-25.85
1300.48	-26.35	1320.95	-27.00	1341.11	-27.62	1361.63	-28.15	1383.41	-28.74
1404.62	-29.17	1425.33	-29.66	1445.48	-30.09	1471.49	-30.64	1492.10	-30.97
1515.58	-31.63	1537.09	-32.02	1557.97	-32.48	1578.19	-33.04	1601.27	-33.63
1623.04	-33.86	1643.65	-34.25	1665.86	-34.58	1687.31	-35.07	1707.53	-35.27
1730.71	-35.73	1752.43	-36.06	1774.70	-36.55	1796.05	-36.94	1821.89	-37.57
1842.22	-38.22	1863.08	-38.71	1883.58	-39.24	1909.24	-39.57	1935.87	-39.96
1960.56	-40.35	1987.83	-40.55	2015.67	-40.58	2038.46	-40.81	2058.56	-40.65
2078.87	-40.35	2108.17	-40.42	2128.28	-39.99	2150.79	-39.63	2171.04	-39.21
2190.82	-38.85	2213.71	-38.68	2234.00	-38.22	2262.59	-37.93	2287.53	-37.80
2307.99	-37.50	2327.93	-37.63	2363.63	-37.47	2401.74	-37.34	2426.96	-37.47
2455.50	-37.43	2479.95	-37.50	2517.72	-37.66	2538.93	-37.57	2574.84	-37.89
2597.48	-38.09	2622.84	-38.45	2648.05	-38.68	2672.40	-38.91	2702.37	-39.04
2724.24	-39.30	2747.93	-39.50	2772.73	-39.76	2798.03	-39.50	2829.04	-40.19
2857.28	-40.16	2888.18	-40.22	2908.35	-39.89	2929.31	-40.45	2955.16	-41.40
2975.42	-40.65	2996.49	-38.45						

R-10.5		714025.59	958297.30	95.00	
	31MAY24	31MAY24	142 00 25 117		

-002.00	21.50	000.00	21.00	007.00	15.30	011.00	12.60	015.00	10.80
019.00	8.70	022.00	8.00	026.22	8.07	033.88	7.69	045.55	6.29
064.92	5.85	074.85	5.76	079.66	5.56	088.43	3.82	103.37	3.26
117.65	1.21	134.86	-0.80	146.70	-2.12	165.50	-2.50	186.17	-2.43
210.05	-2.83	230.68	-3.27	252.46	-3.91	269.14	-4.33	290.26	-4.96
307.58	-5.38	327.61	-6.17	347.57	-7.12	368.75	-8.14	389.71	-9.19
409.80	-9.74	431.72	-10.24	454.01	-10.56	474.79	-10.83	498.97	-11.06
520.20	-11.22	544.03	-11.38	565.48	-11.55	586.41	-11.75	607.79	-11.98
631.80	-12.20	655.31	-12.37	682.87	-12.30	705.54	-12.24	725.64	-11.94
761.43	-11.71	781.85	-11.45	801.89	-10.86	822.13	-9.94	842.44	-9.22
862.44	-8.89	883.07	-9.28	904.21	-10.17	924.31	-11.38	944.48	-12.70
964.50	-13.85	984.51	-14.96	1004.72	-15.98	1024.98	-16.93	1045.20	-17.85
1064.95	-18.77	1094.76	-19.52	1116.87	-20.60	1145.04	-20.87	1165.20	-21.49
1188.08	-22.11	1208.35	-22.74	1228.35	-23.39	1248.77	-24.05	1268.80	-24.57
1295.74	-25.16	1316.43	-25.75	1336.50	-26.18	1356.38	-26.61	1377.08	-27.07
1396.77	-27.62	1416.70	-28.05	1437.01	-28.58	1457.47	-29.00	1485.01	-29.69
1505.08	-30.12	1525.08	-30.94	1545.30	-31.53	1565.29	-31.82	1597.74	-32.41
1617.95	-33.23	1638.23	-33.76	1658.65	-34.38	1680.40	-34.97	1700.55	-35.76
1728.28	-36.45	1749.05	-36.88	1769.36	-37.63	1789.62	-38.16	1809.86	-38.58
1838.05	-39.30	1858.11	-39.96	1878.56	-40.45	1899.43	-41.17	1919.72	-41.50
1939.71	-41.83	1964.72	-41.96	1985.10	-42.26	2012.35	-42.16	2035.65	-42.68
2073.67	-42.68	2094.45	-43.24	2114.49	-42.65	2143.00	-42.26	2177.45	-42.29
2214.52	-41.70	2235.63	-41.96	2256.43	-41.27	2287.86	-41.86	2311.63	-41.63
2347.86	-41.54	2386.44	-41.50	2412.52	-41.54	2435.42	-41.40	2455.34	-41.34
2480.76	-41.31	2501.71	-41.77	2522.44	-41.08	2542.62	-41.11	2562.76	-40.98
2587.46	-40.94	2609.86	-40.81	2645.35	-40.39	2684.25	-40.49	2705.03	-40.58
2725.00	-40.75	2744.98	-40.98	2765.25	-41.37	2788.72	-41.47	2816.16	-41.77
2836.26	-42.26	2860.71	-42.19	2881.06	-42.65	2903.04	-41.93	2924.84	-42.22
2947.27	-35.01	2969.09	-35.60						

R-11	1993	713526.50	958266.91	95.00	17.22
	31MAY24	31MAY24	142 00 23 119		

-015.65	17.21	-008.63	17.10	005.19	17.11	014.29	16.73	016.94	14.85
025.02	10.28	025.41	8.90	029.12	8.48	033.52	8.02	044.43	6.44
051.64	6.06	069.94	5.78	080.09	4.95	094.34	3.90	113.42	1.00
129.70	-1.28	142.66	-2.67	166.22	-3.32	187.08	-3.94	206.72	-4.12
223.69	-3.72	242.07	-3.72	262.95	-4.32	275.93	-4.53	296.56	-5.15
316.84	-5.84	337.01	-7.12	357.86	-8.17	379.84	-9.06	401.13	-9.68
423.78	-10.04	452.15	-10.24	474.12	-10.56	500.73	-10.86	521.53	-11.12
542.63	-11.35	563.72	-11.61	583.67	-11.94	606.92	-12.34	635.18	-12.40
662.22	-12.14	682.51	-11.88	703.53	-11.45	723.62	-10.93	744.02	-10.43
764.34	-9.65	785.84	-8.66	808.46	-8.01	828.49	-7.94	849.17	-8.14
870.23	-8.83	890.64	-9.61	911.06	-10.50	931.33	-11.48	952.06	-12.57
972.35	-13.39	992.89	-14.40	1013.44	-15.16	1033.49	-16.08	1054.30	-16.96
1074.58	-17.81	1095.51	-18.77	1115.83	-19.69	1136.35	-20.57	1157.12	-21.23
1177.33	-21.82	1197.83	-22.38	1217.97	-22.97	1245.44	-23.95	1265.82	-24.41
1285.74	-24.90	1306.30	-25.30	1327.09	-25.98	1348.22	-26.35	1368.22	-27.13
1389.16	-27.53	1409.44	-28.05	1432.13	-28.67	1451.87	-29.13	1472.57	-29.69
1493.03	-30.12	1515.09	-30.71	1537.08	-31.17	1558.02	-31.82	1579.86	-32.22

1600.22	-32.87	1623.14	-33.46	1647.01	-34.19	1666.87	-34.58	1687.09	-35.24
1711.26	-35.63	1731.12	-36.12	1751.97	-36.81	1772.64	-37.34	1794.89	-37.96
1814.93	-38.45	1839.52	-38.91	1860.00	-39.50	1893.74	-39.67	1913.84	-40.78
1935.96	-41.01	1961.89	-41.08	1986.64	-41.73	2014.01	-41.67	2033.90	-41.44
2058.14	-41.57	2095.73	-41.47	2122.79	-41.50	2151.10	-41.67	2180.90	-41.63
2200.94	-41.17	2224.13	-41.80	2245.93	-41.31	2280.57	-41.34	2307.35	-41.17
2343.21	-41.37	2375.05	-41.57	2397.52	-41.60	2430.99	-41.90	2453.19	-41.83
2488.95	-41.80	2509.24	-41.77	2532.00	-41.67	2563.96	-41.57	2586.10	-41.57
2606.56	-41.31	2631.73	-41.57	2652.20	-41.44	2676.93	-41.60	2698.04	-41.93
2719.49	-41.67	2739.50	-42.22	2765.05	-42.42	2785.92	-42.29	2810.76	-43.04
2843.45	-43.41	2880.53	-43.73	2906.60	-44.06	2929.17	-42.62	2956.37	-38.62
2976.86	-36.75	2999.93	-37.01						

R-11.5		713029.26	958256.44	95.00
	30MAY24	31MAY24	142 00 22 120	

-034.25	15.33	-018.17	13.76	-010.59	12.94	-004.52	11.68	009.60	10.60
014.45	10.11	019.84	8.66	025.39	8.35	040.09	6.47	060.08	5.79
069.86	5.26	086.16	3.49	093.95	1.79	115.66	-0.57	137.23	-2.79
141.24	-3.26	161.07	-3.36	183.61	-3.49	206.48	-3.44	230.17	-3.28
254.09	-4.09	273.40	-4.79	282.75	-4.95	303.16	-5.81	324.91	-6.89
344.92	-8.01	365.33	-8.92	386.50	-9.74	408.98	-10.33	429.40	-10.66
451.92	-10.86	472.09	-11.12	495.88	-11.42	516.25	-11.71	536.07	-12.07
559.42	-12.40	582.35	-12.66	604.17	-12.57	626.70	-12.04	647.08	-10.70
667.25	-8.53	687.59	-7.22	707.40	-6.89	728.97	-7.25	751.29	-7.74
771.42	-8.46	791.62	-8.99	813.26	-9.71	833.22	-10.37	853.87	-11.09
875.29	-11.78	895.32	-12.47	918.99	-13.22	939.17	-14.04	959.80	-14.83
981.17	-15.78	1001.65	-16.67	1022.52	-17.55	1043.77	-18.67	1064.79	-19.69
1084.72	-21.10	1112.36	-20.87	1132.39	-21.42	1169.39	-22.38	1189.67	-23.23
1209.82	-24.21	1230.95	-25.10	1255.88	-25.95	1275.98	-26.28	1296.18	-26.77
1317.21	-27.17	1337.51	-27.69	1357.75	-28.38	1377.86	-29.04	1400.09	-29.66
1420.99	-30.38	1441.14	-31.17	1461.29	-31.82	1481.51	-32.48	1501.53	-33.23
1521.52	-34.02	1541.53	-34.88	1561.41	-35.37	1581.66	-36.15	1602.11	-36.91
1622.74	-37.70	1642.89	-38.62	1662.89	-39.04	1683.28	-39.60	1703.26	-40.22
1725.45	-40.72	1752.50	-41.40	1772.51	-41.57	1807.76	-41.93	1836.15	-42.03
1856.62	-42.13	1877.15	-41.99	1909.77	-41.80	1932.01	-41.83	1953.70	-41.60
1975.47	-41.60	1999.73	-41.44	2025.02	-41.31	2062.25	-41.11	2084.58	-40.49
2105.13	-41.17	2125.28	-41.04	2152.02	-40.98	2173.88	-41.08	2194.55	-41.24
2215.33	-41.01	2252.93	-40.98	2276.18	-41.17	2296.86	-41.27	2317.53	-41.67
2355.72	-41.80	2394.55	-41.57	2416.59	-41.93	2438.64	-41.63	2466.25	-42.19
2491.88	-42.19	2511.61	-42.65	2533.16	-42.85	2558.31	-42.91	2581.96	-42.26
2609.37	-42.13	2630.77	-42.39	2653.62	-42.59	2684.30	-42.55	2707.06	-42.52
2727.12	-43.11	2753.11	-43.64	2773.55	-43.04	2794.26	-43.54	2832.76	-42.95
2862.56	-43.18	2884.37	-43.64	2911.16	-43.27	2931.44	-44.00	2951.70	-44.98
2973.06	-44.52	2996.76	-43.93						

R-12	1974		712532.02	958245.96	95.00 10.74
	30MAY24	31MAY24	139 00 19 120		

-028.51	11.23	-018.54	10.30	-006.70	10.19	000.21	9.96	005.90	9.76
010.70	8.88	014.65	8.05	027.76	5.94	045.14	5.27	054.75	4.98
070.52	3.86	088.92	1.76	113.59	-1.06	143.27	-2.84	165.09	-2.93

189.07	-2.97	217.66	-3.53	238.45	-4.44	253.78	-4.99	272.26	-5.94
292.49	-7.22	312.62	-8.20	333.19	-8.92	354.64	-9.51	374.96	-9.88
395.68	-10.24	416.35	-10.53	436.85	-10.83	460.52	-11.15	481.87	-11.55
505.86	-11.91	528.91	-12.34	550.37	-12.60	574.27	-12.80	601.61	-12.57
621.68	-11.81	642.48	-10.50	662.44	-8.76	682.71	-7.51	703.26	-7.19
723.49	-7.64	744.74	-8.14	765.49	-8.83	786.99	-9.55	807.60	-10.27
827.80	-10.96	847.93	-11.68	868.66	-12.30	889.76	-13.12	910.01	-13.91
930.47	-14.73	950.48	-15.39	971.18	-16.37	991.98	-17.19	1012.03	-18.14
1032.58	-19.03	1053.38	-19.85	1073.90	-20.64	1093.99	-21.16	1114.41	-21.62
1135.30	-22.24	1155.84	-22.67	1177.78	-23.26	1200.58	-23.82	1221.69	-24.51
1246.81	-24.97	1267.58	-25.72	1287.55	-26.28	1307.70	-26.71	1328.02	-27.39
1348.17	-28.05	1369.13	-28.51	1390.49	-29.13	1411.92	-29.66	1433.97	-30.38
1458.34	-31.14	1478.82	-31.92	1499.43	-32.55	1522.72	-33.04	1543.08	-34.06
1563.57	-34.58	1585.31	-35.37	1609.24	-36.22	1629.34	-37.17	1649.75	-37.63
1669.87	-38.35	1693.27	-39.27	1713.37	-39.86	1738.79	-40.45	1759.87	-40.85
1782.01	-41.24	1802.90	-41.63	1824.21	-41.57	1851.86	-41.54	1887.28	-41.54
1913.71	-41.44	1939.23	-41.21	1959.52	-41.17	1995.67	-41.17	2015.77	-41.04
2036.84	-41.31	2069.95	-41.50	2094.53	-41.77	2125.32	-41.77	2151.28	-41.93
2178.88	-42.03	2199.76	-41.80	2231.91	-42.13	2253.76	-42.03	2274.95	-42.13
2309.66	-41.77	2338.02	-41.86	2358.09	-41.70	2392.06	-41.57	2412.96	-41.50
2443.69	-41.57	2468.56	-41.60	2489.05	-41.70	2509.98	-41.80	2531.55	-41.93
2555.05	-41.73	2585.76	-42.22	2609.52	-42.22	2631.62	-42.22	2652.52	-42.13
2672.75	-42.39	2692.92	-41.01	2715.52	-41.63	2751.40	-42.36	2772.27	-42.59
2792.31	-43.14	2813.51	-43.77	2839.90	-43.47	2864.04	-43.70	2902.57	-43.60
2922.83	-42.95	2943.01	-42.32	2965.05	-40.65	2985.66	-39.21		
R-12.5		712031.51	958197.64	95.00					
	30MAY24	31MAY24	139 00	19 120					

-015.74	11.66	-008.71	11.11	001.70	11.25	016.56	9.59	017.93	8.53
021.64	8.36	030.36	6.42	040.67	5.31	050.09	5.21	059.89	5.37
072.49	4.95	089.08	2.03	110.83	-0.44	135.33	-3.10	160.17	-3.47
184.92	-3.67	206.83	-3.32	230.32	-3.76	253.09	-4.60	270.52	-5.18
291.08	-6.30	311.72	-7.45	332.39	-8.43	353.02	-9.12	373.15	-9.65
395.75	-10.10	416.84	-10.43	437.14	-10.76	457.83	-11.12	478.46	-11.58
498.54	-11.98	518.54	-12.27	538.69	-12.53	573.89	-12.76	595.54	-12.50
616.36	-11.52	636.87	-8.92	656.97	-7.28	677.64	-6.89	699.77	-7.15
719.93	-7.68	741.71	-8.23	761.93	-8.76	783.11	-9.38	803.57	-10.01
823.95	-10.60	844.14	-11.25	864.40	-11.91	886.91	-12.57	908.37	-13.32
928.83	-14.04	950.06	-14.80	971.11	-15.91	994.21	-16.73	1014.13	-17.59
1033.95	-18.54	1054.11	-19.32	1074.17	-19.98	1095.75	-20.67	1118.62	-21.13
1141.02	-21.75	1165.19	-22.18	1186.00	-22.74	1209.77	-23.26	1229.56	-23.72
1249.24	-24.15	1270.37	-24.80	1290.48	-25.33	1310.52	-25.98	1331.87	-26.41
1352.16	-27.03	1374.86	-27.56	1395.79	-28.18	1419.44	-28.84	1441.34	-29.59
1467.83	-30.18	1488.12	-30.81	1508.31	-31.63	1532.49	-32.25	1553.39	-33.01
1575.05	-33.37	1595.36	-34.35	1615.39	-34.97	1635.27	-35.73	1657.15	-36.29
1678.20	-37.27	1698.51	-37.93	1719.14	-38.52	1739.19	-39.21	1766.35	-39.86
1786.52	-40.68	1807.02	-41.17	1827.89	-41.04	1849.03	-41.93	1869.02	-42.03
1892.23	-41.86	1913.17	-41.44	1951.03	-41.24	1971.89	-41.08	1991.91	-40.85
2026.44	-40.49	2056.70	-40.29	2079.02	-40.26	2108.57	-40.35	2128.53	-40.72
2151.13	-40.45	2176.96	-40.52	2211.74	-40.42	2234.22	-40.58	2254.22	-41.08

2275.66	-41.11	2309.66	-41.04	2331.66	-41.04	2352.33	-40.78	2384.90	-41.11
2414.94	-41.24	2441.21	-41.08	2462.14	-41.14	2489.68	-41.08	2509.92	-41.34
2531.97	-41.24	2565.63	-41.27	2587.16	-40.72	2608.32	-40.62	2628.30	-40.85
2648.18	-40.98	2668.94	-41.04	2689.02	-41.40	2709.18	-41.57	2729.40	-41.63
2766.88	-42.52	2803.87	-42.78	2839.64	-42.98	2859.97	-43.11	2886.18	-43.21
2906.74	-43.31	2934.00	-43.47	2959.77	-43.11	2983.31	-43.83		
R-13	1974	711530.99	958149.31	95.00	10.71				
	30MAY24	31MAY24	137 00	18 119					

-004.00	11.00	003.00	10.70	014.00	11.20	021.00	11.00	026.00	8.30
031.25	6.38	048.83	5.50	065.04	5.43	074.80	5.13	094.05	2.38
112.98	0.27	136.25	-2.13	162.21	-3.13	185.81	-3.49	204.97	-3.81
224.36	-4.21	232.85	-4.65	249.76	-4.74	262.19	-4.95	283.12	-5.77
303.63	-7.02	323.85	-8.37	344.26	-9.09	364.45	-9.58	385.31	-9.97
411.34	-10.33	435.89	-10.63	462.24	-11.12	483.43	-11.58	504.02	-11.94
525.14	-12.34	546.36	-12.73	569.96	-13.12	590.21	-13.32	626.01	-13.22
646.19	-12.37	666.25	-10.47	686.23	-8.40	706.18	-7.28	727.69	-7.74
749.13	-8.14	770.47	-8.76	793.28	-9.42	813.29	-10.04	834.99	-10.70
855.19	-11.48	875.39	-12.04	896.26	-12.63	916.81	-13.42	937.53	-14.07
959.76	-14.96	980.60	-15.72	1000.71	-16.54	1020.77	-17.39	1041.14	-18.31
1061.48	-19.29	1081.90	-19.95	1102.67	-20.73	1123.02	-21.36	1153.55	-21.19
1176.05	-21.26	1198.49	-21.85	1218.73	-23.00	1241.39	-23.82	1262.48	-24.41
1283.21	-24.93	1305.09	-25.66	1326.74	-26.21	1347.19	-26.80	1370.82	-27.36
1391.50	-27.85	1413.01	-28.44	1433.83	-29.04	1456.11	-29.40	1477.31	-30.18
1497.25	-30.64	1518.56	-31.23	1538.93	-31.89	1559.46	-32.41	1581.57	-33.17
1603.88	-33.92	1624.49	-34.68	1647.22	-35.56	1671.98	-36.48	1692.10	-37.27
1712.16	-37.93	1732.39	-38.68	1752.37	-39.34	1772.85	-39.99	1796.16	-40.62
1817.45	-41.17	1837.87	-41.54	1857.85	-41.83	1887.96	-42.13	1908.74	-41.96
1929.44	-41.21	1965.98	-41.21	1987.35	-40.91	2021.66	-40.58	2042.10	-40.06
2062.41	-39.96	2082.52	-39.63	2112.24	-39.40	2133.10	-39.24	2163.34	-39.04
2195.80	-38.71	2219.06	-38.75	2242.14	-38.68	2262.62	-38.62	2282.99	-38.62
2305.39	-38.62	2337.63	-38.75	2357.73	-38.55	2390.17	-38.65	2410.45	-38.39
2442.32	-38.48	2462.51	-38.58	2489.39	-38.88	2509.65	-39.07	2541.56	-39.27
2576.04	-39.57	2596.65	-39.57	2629.91	-39.83	2663.84	-39.89	2687.91	-40.19
2711.04	-40.29	2732.48	-40.35	2752.74	-40.52	2778.24	-40.52	2798.51	-41.31
2828.58	-41.96	2856.94	-42.32	2892.60	-42.32	2916.34	-42.32	2936.86	-43.08
2957.45	-44.13	2978.28	-44.78						
R-14	1992	710516.50	958099.57	95.00	10.03				
	30MAY24	31MAY24	137 00	15 122					

-028.99	13.62	007.27	9.83	011.57	8.96	015.22	7.28	030.26	5.66
040.26	5.11	056.07	3.97	069.17	1.83	092.57	-0.72	116.42	-2.72
138.70	-3.42	161.71	-3.67	187.66	-4.01	212.03	-4.38	222.28	-4.72
235.39	-4.82	257.12	-5.74	277.13	-6.96	297.78	-8.27	317.90	-9.12
338.52	-9.65	363.15	-10.14	400.79	-10.14	424.37	-10.70	446.18	-10.99
466.35	-11.22	488.33	-11.55	513.10	-11.84	535.36	-12.27	561.47	-12.43
586.12	-12.66	608.35	-12.86	636.57	-12.96	656.62	-12.86	678.01	-12.70
699.22	-12.37	719.53	-12.20	740.07	-11.55	760.31	-10.79	780.51	-9.78
800.76	-9.02	820.93	-8.79	842.17	-9.22	862.23	-10.07	885.47	-10.79
906.38	-12.34	926.54	-13.48	946.40	-14.67	966.93	-15.58	986.85	-16.67

1007.17	-17.75	1027.73	-18.86	1047.88	-19.82	1069.12	-20.64	1089.36	-21.46
1109.88	-22.01	1133.83	-22.44	1155.35	-23.10	1176.23	-23.49	1196.32	-24.02
1222.49	-24.54	1242.49	-25.00	1262.67	-25.39	1283.23	-25.92	1303.61	-26.31
1323.96	-26.77	1344.22	-27.23	1369.24	-27.56	1392.16	-27.95	1412.34	-28.54
1432.65	-28.94	1452.63	-29.40	1472.78	-29.63	1493.56	-30.05	1513.76	-30.54
1539.10	-31.04	1559.55	-31.50	1587.40	-32.05	1607.44	-32.61	1627.47	-33.23
1647.74	-33.83	1667.55	-34.35	1687.44	-35.07	1707.79	-35.66	1727.96	-36.48
1748.33	-37.24	1768.23	-37.99	1788.37	-38.85	1808.20	-39.86	1828.07	-40.19
1848.57	-40.94	1869.88	-41.54	1905.50	-41.37	1936.34	-41.99	1957.54	-41.73
1977.71	-41.34	2004.26	-41.63	2024.75	-40.68	2044.58	-41.08	2073.73	-40.94
2104.46	-40.55	2125.00	-40.55	2145.25	-40.72	2181.98	-40.98	2201.58	-41.44
2222.23	-41.63	2241.87	-41.31	2272.90	-41.60	2298.16	-41.17	2330.34	-41.54
2350.76	-41.31	2389.16	-41.70	2416.39	-42.19	2445.71	-41.99	2467.38	-42.03
2491.64	-42.09	2529.93	-41.77	2551.28	-42.49	2584.03	-42.55	2605.19	-42.22
2635.54	-41.93	2656.97	-42.78	2679.05	-42.59	2699.32	-42.81	2719.61	-43.04
2742.48	-43.18	2763.05	-43.64	2783.38	-43.86	2805.83	-44.39	2826.92	-44.82
2847.16	-45.24	2881.98	-45.83	2905.92	-47.18	2931.24	-47.67	2957.19	-48.39
2978.33	-48.62	2998.47	-48.06						

R-15	1974	709549.12	957998.33	95.00	14.79
	30MAY24	31MAY24	140 00	19	121

026.85	11.16	035.38	10.89	041.57	11.04	046.17	10.68	048.96	9.19
052.84	8.65	058.02	7.66	065.05	6.61	085.10	5.65	094.85	5.48
109.87	4.52	119.94	2.00	140.28	-0.69	161.92	-3.02	185.52	-3.44
207.62	-3.53	232.72	-3.54	253.67	-3.80	271.89	-4.50	275.74	-4.49
296.53	-5.41	316.72	-6.46	337.09	-7.61	358.21	-8.63	378.68	-9.48
399.37	-10.01	420.80	-10.56	440.89	-10.96	461.92	-11.38	482.38	-11.78
503.16	-12.14	523.19	-12.50	545.92	-12.86	566.26	-13.16	589.01	-13.55
609.47	-13.78	629.78	-13.65	649.88	-13.12	669.85	-12.11	689.94	-9.68
710.22	-7.55	730.26	-7.02	751.14	-7.25	772.06	-7.68	793.96	-8.27
813.98	-8.86	834.87	-9.58	856.87	-10.27	877.90	-10.99	900.00	-11.68
920.01	-12.40	940.47	-13.12	960.66	-13.81	980.66	-14.60	1000.61	-15.42
1022.29	-16.47	1043.39	-17.32	1064.34	-18.21	1084.35	-19.19	1105.08	-19.98
1125.15	-20.80	1145.94	-21.62	1168.06	-22.28	1188.82	-22.90	1209.19	-23.72
1236.98	-23.20	1257.28	-23.46	1277.88	-23.85	1300.00	-25.33	1320.14	-26.44
1340.28	-27.53	1360.59	-27.89	1382.67	-28.02	1404.57	-28.81	1424.74	-29.36
1445.02	-29.76	1465.95	-30.41	1486.60	-30.87	1507.65	-31.56	1531.63	-32.05
1551.77	-32.68	1572.19	-33.14	1595.46	-33.86	1615.86	-34.51	1637.83	-34.88
1658.59	-35.63	1678.61	-36.06	1698.60	-36.45	1724.71	-36.94	1746.79	-37.66
1772.87	-38.16	1798.43	-38.85	1819.30	-39.27	1842.47	-39.76	1867.67	-40.09
1899.22	-40.49	1926.06	-40.55	1955.92	-40.42	1978.12	-40.68	2003.28	-40.39
2025.03	-39.99	2046.86	-39.70	2072.18	-39.86	2099.85	-39.70	2122.40	-39.11
2152.25	-38.78	2180.14	-38.65	2200.62	-38.71	2224.08	-38.71	2244.74	-38.78
2264.53	-38.45	2291.73	-38.16	2314.74	-38.71	2341.99	-39.04	2365.55	-38.98
2404.58	-39.21	2435.81	-39.53	2466.82	-39.67	2493.39	-39.76	2519.82	-39.89
2544.49	-39.89	2573.28	-40.26	2593.82	-39.93	2614.12	-40.94	2637.51	-41.24
2662.95	-41.67	2685.38	-42.06	2707.72	-42.81	2728.11	-43.41	2752.00	-43.86
2772.46	-45.31	2800.84	-45.80	2822.55	-45.90	2841.99	-45.96	2861.24	-44.78
2880.88	-41.57	2900.89	-41.93	2930.44	-41.99	2963.06	-42.26	2983.76	-44.00

R-16	1993	708542.83	957875.69	95.00	14.84
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30MAY24 31MAY24 137 00 23 114

005.96	13.86	027.18	13.44	047.53	13.60	052.01	12.60	063.49	11.61
080.06	10.44	096.02	8.43	116.08	6.40	118.28	6.30	130.36	5.96
139.82	5.97	150.34	5.53	158.40	3.98	176.72	3.71	184.18	1.93
204.21	-0.55	225.84	-2.54	248.15	-2.92	268.26	-3.16	292.89	-3.15
316.39	-3.69	334.28	-4.28	350.30	-5.30	363.22	-5.64	383.81	-6.82
405.00	-7.94	425.34	-8.73	445.64	-9.19	468.39	-9.65	492.71	-9.94
513.39	-10.30	538.18	-10.47	558.53	-10.76	578.98	-11.02	599.44	-11.45
620.10	-11.78	644.03	-12.11	671.45	-12.11	705.62	-11.91	725.77	-11.58
750.21	-11.32	770.57	-10.93	790.71	-10.17	810.78	-9.28	830.77	-8.50
850.81	-8.17	870.87	-8.46	891.17	-9.06	912.67	-9.94	932.70	-11.09
953.19	-11.98	973.30	-12.96	993.86	-13.88	1043.94	-16.27	1064.98	-17.39
1085.08	-18.27	1104.91	-19.19	1124.97	-20.21	1146.53	-20.90	1166.87	-21.65
1188.61	-22.47	1208.77	-23.16	1229.42	-23.65	1255.15	-24.44	1279.78	-25.13
1300.00	-25.72	1319.90	-26.31	1340.06	-27.07	1359.84	-27.62	1379.83	-28.22
1399.83	-29.00	1419.83	-29.72	1440.61	-30.51	1460.56	-31.14	1481.42	-31.92
1501.22	-32.58	1522.79	-32.94	1542.96	-34.35	1566.67	-35.30	1586.72	-36.06
1607.58	-36.88	1628.50	-37.66	1648.65	-38.48	1669.16	-39.21	1692.28	-39.83
1717.75	-40.68	1738.13	-41.34	1760.76	-41.67	1797.35	-41.73	1823.28	-41.67
1846.37	-41.44	1873.86	-41.21	1894.90	-41.31	1918.24	-40.91	1953.66	-40.55
1977.48	-40.29	1999.72	-40.12	2019.82	-40.29	2039.64	-40.45	2069.33	-40.55
2088.97	-40.81	2115.81	-40.72	2146.73	-40.98	2167.38	-40.88	2190.57	-41.27
2215.52	-41.54	2237.87	-41.73	2257.56	-42.22	2288.77	-43.04	2311.02	-42.78
2335.95	-43.44	2357.58	-43.57	2383.22	-44.49	2405.51	-43.80	2439.02	-43.60
2460.76	-43.57	2483.48	-43.70	2510.51	-43.34	2538.28	-43.41	2558.59	-43.50
2582.44	-43.11	2602.93	-43.64	2636.19	-43.64	2656.23	-44.13	2681.76	-43.86
2707.19	-43.77	2736.13	-43.64	2757.51	-44.06	2777.52	-44.62	2799.33	-44.52
2820.09	-45.05	2853.63	-45.51	2873.66	-45.80	2894.00	-46.49	2928.39	-47.60
2952.98	-45.80	2981.33	-46.52						

R-17 1974 707561.11 957846.72 95.00 13.85

30MAY24 31MAY24 146 00 27 119

-005.72	14.34	006.25	13.81	006.74	14.36	007.72	14.51	008.01	13.64
024.70	12.21	041.43	11.71	047.05	10.75	053.84	10.42	059.91	10.72
071.85	9.95	080.48	9.39	085.96	7.79	092.47	6.33	100.19	5.93
109.52	5.61	126.32	4.40	140.22	3.14	149.08	1.59	170.62	-1.20
192.35	-3.08	216.04	-3.24	238.32	-3.04	259.64	-3.49	259.76	-3.50
279.55	-4.15	291.18	-5.05	315.93	-5.87	337.43	-7.22	357.90	-8.30
379.88	-9.19	401.03	-9.74	423.07	-10.20	443.28	-10.47	463.48	-10.70
486.00	-11.06	506.39	-11.32	527.94	-11.75	552.83	-11.94	573.88	-12.34
599.95	-12.40	630.07	-12.60	650.30	-12.01	670.74	-10.89	690.75	-8.86
710.77	-7.55	730.93	-7.25	751.28	-7.55	773.59	-8.17	795.80	-8.79
817.87	-9.51	839.95	-10.24	860.18	-10.93	881.49	-11.61	901.65	-12.34
921.76	-12.99	941.77	-13.71	962.24	-14.50	982.26	-15.19	1002.70	-16.11
1024.03	-17.03	1045.18	-17.95	1065.19	-18.83	1087.24	-19.72	1108.04	-20.64
1128.31	-21.10	1148.74	-21.72	1169.50	-22.21	1191.94	-22.83	1212.33	-23.52
1232.94	-23.92	1252.97	-24.54	1273.25	-25.16	1293.83	-25.89	1314.41	-26.44
1335.56	-27.17	1355.45	-27.85	1378.26	-28.54	1399.56	-29.46	1420.04	-30.25
1440.70	-31.14	1460.68	-31.96	1480.83	-32.81	1501.64	-33.69	1521.53	-34.65

1542.35	-35.60	1562.49	-36.38	1582.57	-37.24	1602.53	-38.25	1622.73	-39.27
1643.95	-40.19	1664.50	-40.94	1686.22	-41.80	1706.50	-42.68	1726.99	-43.31
1747.14	-43.90	1769.69	-44.55	1789.75	-44.95	1811.12	-45.18	1840.11	-45.24
1868.70	-45.18	1889.54	-44.59	1911.32	-44.39	1936.61	-44.32	1969.17	-44.16
1990.01	-43.44	2012.48	-43.57	2037.09	-44.03	2057.45	-43.27	2079.73	-43.08
2118.78	-42.72	2141.01	-42.49	2161.04	-42.13	2181.59	-41.93	2207.37	-41.40
2227.68	-41.11	2248.01	-40.81	2275.55	-40.58	2295.69	-40.09	2329.95	-39.67
2349.97	-40.16	2372.94	-40.85	2396.48	-40.91	2417.44	-40.68	2437.47	-40.58
2470.05	-40.12	2494.85	-40.19	2519.90	-40.03	2546.01	-40.75	2567.49	-40.45
2598.36	-40.81	2619.82	-41.47	2648.43	-42.52	2669.42	-42.06	2704.41	-42.03
2739.81	-42.85	2763.90	-41.37	2783.82	-38.78	2803.64	-40.09	2823.94	-41.63
2852.08	-43.86	2885.37	-43.34	2906.71	-44.36	2926.66	-45.64	2946.65	-45.51
2974.59	-46.62								

R-18	1974	706555.11	957806.49	95.00	10.25
	30MAY24	31MAY24	139 00	23	116

-008.16	12.13	004.10	10.76	016.11	10.52	022.37	10.03	029.97	10.63
033.72	9.09	036.70	8.38	041.43	7.43	050.07	6.52	065.29	5.57
075.19	4.63	089.37	4.01	104.00	1.47	123.30	-0.94	147.25	-2.98
168.67	-3.02	192.94	-3.23	217.99	-3.89	232.70	-4.58	249.55	-5.05
267.25	-6.19	279.07	-7.04	282.65	-7.51	290.00	-7.55	310.03	-8.56
332.37	-9.32	357.67	-9.81	378.45	-10.17	403.60	-10.50	427.17	-10.76
447.22	-10.96	468.55	-11.15	489.16	-11.45	513.96	-11.84	540.22	-12.24
562.03	-12.60	594.11	-12.83	619.33	-12.70	639.79	-12.34	660.04	-11.58
680.41	-10.27	700.55	-8.69	720.58	-7.81	741.66	-7.68	761.49	-8.66
782.96	-9.32	803.87	-10.43	823.58	-11.29	843.50	-12.20	863.73	-12.99
883.92	-13.85	904.02	-14.67	923.98	-15.58	944.03	-16.44	964.21	-17.32
984.13	-18.24	1004.20	-19.32	1026.20	-20.28	1046.35	-21.10	1066.48	-21.85
1086.77	-22.44	1106.89	-23.03	1127.14	-23.75	1147.40	-24.31	1167.46	-24.77
1187.36	-25.43	1207.04	-26.21	1227.82	-26.74	1248.51	-27.23	1268.60	-27.99
1289.74	-28.48	1309.97	-29.27	1336.25	-30.09	1356.11	-31.00	1378.59	-31.59
1398.18	-32.38	1418.09	-33.14	1437.93	-33.73	1467.39	-34.58	1487.67	-35.56
1511.42	-36.29	1531.56	-36.94	1551.28	-37.63	1571.28	-38.09	1591.83	-38.85
1611.85	-39.40	1631.78	-40.06	1653.54	-40.55	1673.74	-41.08	1700.31	-41.50
1720.56	-41.77	1751.66	-41.90	1786.34	-41.83	1806.34	-41.63	1828.34	-41.44
1850.43	-41.31	1872.16	-40.94	1901.03	-40.75	1926.36	-40.58	1946.33	-40.42
1975.26	-40.03	2006.48	-39.47	2034.44	-39.44	2054.63	-39.21	2079.29	-39.11
2111.96	-38.91	2133.40	-38.94	2167.11	-39.07	2195.77	-39.34	2215.58	-39.63
2248.90	-39.89	2268.83	-40.19	2298.46	-40.55	2321.16	-40.78	2344.85	-40.94
2364.99	-41.08	2388.75	-41.17	2417.80	-41.34	2437.33	-41.54	2460.70	-41.54
2480.77	-41.90	2514.89	-41.83	2535.06	-42.19	2555.05	-42.52	2585.76	-42.65
2621.59	-42.49	2643.65	-43.01	2669.04	-43.60	2689.62	-43.73	2712.59	-44.88
2740.65	-46.46	2771.55	-46.92	2810.65	-45.31	2838.58	-44.00	2871.48	-41.96
2893.43	-39.40	2924.00	-40.94	2949.52	-40.58	2982.26	-40.32		

R-19	1974	705540.91	957749.02	95.00	10.36
	30MAY24	31MAY24	142 00	23	119

-012.38	18.36	-009.61	17.91	-003.11	16.15	000.25	15.04	006.61	13.32
013.05	11.22	017.89	9.97	023.61	9.77	034.81	9.25	043.11	6.77
050.11	5.59	060.08	5.22	069.89	5.06	088.08	3.67	096.72	3.51

106.14	1.49	129.10	-1.37	149.25	-2.73	168.26	-2.72	189.56	-2.97
213.28	-3.72	233.61	-4.25	249.59	-4.94	265.72	-5.38	286.73	-6.46
307.41	-7.51	327.68	-8.40	349.17	-9.09	370.54	-9.84	391.70	-10.37
412.95	-10.79	435.23	-11.35	459.15	-11.71	479.81	-12.04	506.76	-12.34
529.11	-12.47	549.29	-12.30	569.81	-12.24	590.72	-12.07	611.29	-11.98
631.40	-11.75	651.90	-11.61	671.95	-11.32	692.37	-10.89	712.41	-10.24
732.51	-9.32	752.56	-8.60	773.09	-8.43	793.55	-8.86	815.40	-9.58
835.48	-10.66	855.71	-11.68	876.44	-12.80	897.07	-13.62	916.91	-14.40
937.67	-15.32	957.94	-16.34	978.36	-17.13	999.22	-18.01	1019.18	-18.83
1039.58	-19.72	1060.57	-20.51	1081.55	-21.19	1102.11	-21.59	1122.62	-22.28
1143.19	-22.74	1163.36	-23.43	1185.10	-24.02	1206.13	-24.61	1226.18	-25.33
1247.48	-26.02	1267.74	-26.77	1288.42	-27.26	1309.16	-28.05	1329.41	-28.54
1350.84	-29.30	1374.37	-29.89	1396.64	-30.71	1416.44	-31.40	1436.80	-32.09
1457.67	-32.87	1477.67	-33.69	1499.35	-34.61	1519.38	-35.53	1539.74	-36.45
1560.80	-37.40	1581.09	-38.35	1606.86	-39.50	1627.09	-40.52	1647.11	-41.31
1667.16	-42.13	1687.18	-42.85	1708.92	-43.41	1737.16	-43.60	1758.88	-43.60
1781.25	-43.31	1801.42	-43.60	1822.19	-43.54	1843.23	-43.21	1865.09	-43.44
1889.13	-43.27	1918.94	-42.91	1939.11	-42.59	1965.37	-42.42	2003.51	-42.75
2024.46	-43.11	2045.01	-43.41	2073.54	-43.70	2108.95	-43.60	2129.30	-43.54
2150.60	-43.24	2173.93	-42.95	2199.61	-42.78	2226.56	-42.78	2251.77	-42.62
2288.80	-42.16	2311.51	-42.52	2337.52	-42.52	2367.41	-42.26	2397.03	-42.49
2419.59	-42.19	2449.01	-41.99	2474.47	-41.44	2509.13	-41.40	2540.93	-41.77
2560.97	-41.27	2592.83	-41.24	2613.85	-41.67	2635.33	-42.59	2655.52	-41.40
2692.56	-40.32	2718.92	-39.53	2739.85	-39.99	2765.93	-41.60	2786.04	-42.91
2825.38	-42.19	2857.32	-41.47	2891.54	-41.93	2925.82	-40.75	2945.85	-41.34
2966.44	-36.94	2996.52	-40.85						
R-20	1974	704530.16	957702.16	95.00	11.31				
	30MAY24	31MAY24	136 00 18 118						

009.39	9.16	019.88	9.73	029.96	9.95	036.28	10.21	040.06	9.23
050.19	7.63	065.00	5.90	074.96	5.13	084.65	5.11	101.20	4.65
118.54	3.61	131.73	1.62	153.84	-0.81	177.19	-2.66	201.24	-3.16
224.37	-3.64	244.64	-4.17	261.34	-4.89	279.81	-5.61	300.39	-6.63
321.88	-7.74	343.55	-8.43	364.78	-8.96	384.90	-9.48	406.44	-9.97
428.32	-10.53	448.42	-10.99	469.78	-11.55	490.81	-11.98	513.50	-12.50
542.09	-12.70	562.16	-12.24	582.44	-10.86	602.63	-8.96	622.61	-7.87
642.80	-7.64	665.46	-8.01	685.57	-8.63	705.80	-9.12	725.84	-9.74
746.09	-10.33	767.52	-10.99	787.54	-11.65	808.17	-12.27	829.05	-12.96
849.35	-13.65	869.53	-14.24	890.58	-15.03	911.02	-15.85	931.28	-16.67
951.92	-17.45	972.06	-18.21	992.49	-19.13	1012.62	-19.88	1032.82	-20.67
1052.91	-21.33	1073.23	-21.98	1093.25	-22.54	1113.64	-23.10	1134.07	-23.75
1155.49	-24.48	1175.58	-25.20	1195.80	-25.95	1217.54	-26.71	1238.90	-27.66
1258.82	-28.44	1278.83	-29.30	1298.89	-30.12	1320.88	-30.77	1341.12	-31.56
1361.33	-32.51	1381.93	-33.17	1402.55	-33.92	1427.49	-34.58	1447.66	-35.10
1467.81	-35.79	1488.30	-36.61	1508.57	-37.24	1528.71	-37.93	1549.47	-38.85
1569.70	-39.86	1589.79	-40.85	1610.40	-41.73	1630.48	-42.59	1651.22	-43.41
1671.23	-44.09	1695.17	-44.75	1732.38	-44.82	1754.77	-44.09	1792.32	-43.67
1813.08	-43.14	1837.58	-42.65	1870.02	-42.26	1890.05	-41.86	1915.27	-41.57
1942.89	-41.70	1970.79	-41.80	1997.61	-41.99	2021.42	-41.86	2045.59	-42.65
2065.54	-42.65	2096.23	-42.36	2132.97	-42.03	2154.29	-41.96	2176.59	-41.83

2214.15	-40.65	2234.22	-40.98	2254.22	-41.34	2274.73	-41.40	2298.81	-41.21
2335.25	-41.11	2355.65	-41.24	2376.07	-41.40	2406.10	-41.50	2435.56	-41.86
2462.61	-41.77	2484.14	-41.77	2507.70	-41.63	2531.40	-41.77	2556.09	-42.98
2584.96	-41.99	2618.06	-41.37	2639.39	-40.03	2660.02	-38.52	2681.36	-38.35
2704.72	-39.47	2724.69	-41.04	2764.24	-39.76	2790.12	-39.21	2826.58	-37.76
2854.46	-37.37	2874.42	-37.34	2907.17	-37.83	2927.42	-38.62	2948.26	-39.86
2978.53	-40.39								

T-21	1976	703547.48	957637.61	95.00	19.84
	30MAY24	30MAY24	139 00 19 120		

007.65	18.28	010.52	16.96	015.48	12.22	016.78	11.42	028.03	10.03
029.59	8.56	035.74	7.62	042.63	6.59	049.77	5.93	060.02	5.37
069.37	4.75	087.35	3.36	100.22	1.65	122.17	-1.35	145.28	-3.21
168.74	-2.53	190.91	-2.84	213.20	-3.63	234.55	-4.15	239.07	-4.23
259.77	-4.99	281.03	-5.91	301.83	-6.92	322.12	-7.97	343.23	-8.76
371.41	-9.51	393.04	-9.94	418.48	-10.79	450.62	-11.32	483.98	-11.52
511.19	-11.71	544.69	-11.81	578.15	-11.75	599.60	-11.65	620.03	-11.52
640.43	-11.32	660.80	-10.63	681.01	-9.84	701.17	-9.19	722.44	-8.96
743.25	-9.32	763.34	-10.07	783.51	-11.15	803.75	-12.27	824.25	-13.25
844.50	-14.30	865.07	-15.29	886.66	-16.40	907.35	-17.42	928.14	-18.54
948.95	-19.69	969.39	-20.47	989.81	-21.26	1020.05	-21.65	1042.00	-22.44
1064.29	-22.97	1084.48	-23.49	1104.76	-24.05	1126.83	-24.61	1147.40	-25.10
1168.20	-25.56	1188.69	-25.92	1210.78	-26.48	1231.08	-26.77	1251.98	-27.23
1273.63	-27.89	1301.16	-28.61	1322.06	-29.76	1352.69	-30.25	1377.75	-31.63
1399.44	-32.81	1420.22	-34.09	1440.53	-34.55	1461.22	-35.33	1481.95	-35.79
1503.05	-36.58	1525.36	-37.30	1551.52	-37.86	1572.28	-39.01	1595.08	-39.86
1614.88	-40.62	1640.63	-41.17	1664.49	-41.99	1690.31	-42.68	1714.91	-43.08
1734.93	-43.50	1759.97	-43.24	1782.07	-43.14	1803.21	-43.11	1822.95	-42.75
1842.82	-42.42	1863.36	-41.93	1884.40	-41.54	1905.19	-41.54	1925.28	-41.37
1946.59	-41.54	1972.33	-41.86	2011.02	-42.19	2031.73	-41.93	2053.50	-42.13
2078.34	-42.55	2099.55	-43.18	2120.62	-43.64	2155.95	-43.77	2177.77	-43.34
2200.02	-43.08	2223.35	-42.68	2251.32	-42.65	2271.36	-42.13	2291.55	-41.63
2312.36	-41.50	2332.67	-41.08	2352.70	-40.94	2376.76	-40.58	2396.90	-40.62
2417.82	-40.55	2438.44	-39.89	2465.61	-40.26	2489.81	-40.58	2511.50	-40.72
2531.98	-41.01	2554.87	-41.40	2577.94	-41.44	2606.18	-41.01	2640.96	-41.04
2673.02	-40.39	2693.05	-38.81	2721.24	-39.57	2748.08	-39.60	2776.83	-38.81
2798.73	-39.67	2819.22	-39.07	2839.21	-38.85	2860.48	-38.32	2891.52	-38.94
2919.01	-39.17	2941.05	-41.86	2965.21	-41.17	2987.14	-42.26		

T-22	1976	702172.32	957545.90	95.00	20.45
	30MAY24	30MAY24	140 00 19 121		

-007.61	18.84	-000.44	19.56	008.30	20.12	016.92	19.71	023.95	15.51
029.42	11.35	035.09	6.91	046.46	5.58	055.21	4.98	064.78	4.27
084.06	3.24	104.68	1.24	126.15	-0.90	148.99	-3.15	168.06	-3.72
188.30	-4.14	205.42	-4.73	220.38	-5.23	236.14	-5.82	258.48	-6.76
279.18	-7.91	299.59	-8.86	320.63	-9.61	341.01	-10.27	361.54	-10.83
388.14	-10.93	409.55	-11.84	440.49	-12.37	460.74	-11.75	481.01	-10.43
501.10	-8.30	521.40	-7.05	541.72	-6.76	564.55	-7.09	585.70	-7.64
605.85	-8.17	626.41	-8.79	646.50	-9.42	668.27	-10.17	689.02	-10.83
709.90	-11.55	730.53	-12.24	751.39	-12.93	771.39	-13.68	791.63	-14.40

811.91	-15.19	832.33	-16.08	853.10	-16.93	873.38	-17.75	892.99	-18.64
914.26	-19.39	934.38	-20.28	954.41	-20.83	974.59	-21.33	994.75	-21.85
1017.33	-22.15	1038.00	-22.38	1058.04	-22.80	1078.09	-23.49	1098.10	-24.34
1118.29	-24.84	1138.62	-25.20	1159.86	-25.03	1180.16	-25.26	1203.84	-24.64
1224.62	-24.15	1258.23	-24.34	1295.82	-24.41	1316.03	-26.67	1336.12	-28.08
1356.43	-28.81	1376.57	-30.05	1396.76	-30.54	1422.29	-30.91	1442.42	-31.36
1462.57	-31.76	1482.67	-32.15	1502.94	-32.58	1525.08	-33.04	1545.79	-33.43
1565.91	-33.89	1586.00	-34.19	1611.13	-34.65	1631.20	-35.20	1650.97	-35.53
1671.22	-35.99	1691.35	-36.29	1714.59	-36.88	1735.08	-37.40	1755.60	-37.86
1777.43	-38.39	1797.31	-38.78	1817.61	-39.30	1838.29	-39.83	1858.41	-40.19
1878.59	-40.68	1903.54	-40.94	1923.86	-41.67	1945.71	-42.09	1965.97	-42.59
1987.07	-42.72	2007.10	-43.41	2038.78	-42.98	2070.73	-42.81	2103.81	-42.68
2133.54	-42.49	2153.79	-42.03	2178.35	-41.60	2201.57	-41.17	2221.71	-41.34
2243.13	-41.60	2264.65	-41.31	2294.27	-41.17	2321.89	-41.37	2345.08	-41.37
2374.73	-40.88	2394.70	-40.52	2422.21	-40.39	2442.48	-40.78	2475.44	-41.77
2497.52	-42.03	2518.44	-41.86	2538.58	-42.29	2560.60	-42.42	2593.69	-42.59
2613.96	-41.40	2647.64	-41.01	2668.06	-40.91	2689.50	-40.58	2720.82	-40.06
2742.57	-39.24	2777.60	-39.40	2800.64	-40.49	2824.17	-40.68	2852.78	-40.81
2875.49	-41.57	2896.90	-42.26	2917.10	-41.96	2940.57	-42.85	2961.38	-43.44
R-23	1974	701514.60	957519.14	95.00	15.50				
	30MAY24	30MAY24	141 00 20 121						

-008.45	15.45	001.12	15.46	009.35	14.95	016.32	11.02	020.39	10.45
029.94	5.60	040.03	4.69	055.45	3.34	064.96	3.47	079.59	1.60
098.10	-0.65	118.38	-2.76	137.70	-3.52	156.18	-3.96	176.20	-4.58
187.49	-5.51	190.02	-5.30	195.87	-6.00	200.40	-5.71	217.99	-6.55
235.33	-7.19	255.43	-8.27	276.33	-8.99	305.47	-9.45	325.53	-10.24
345.87	-10.86	367.29	-12.07	387.96	-13.19	408.01	-12.89	428.05	-11.94
448.29	-10.63	468.41	-8.53	488.55	-7.35	508.76	-7.12	529.42	-7.51
551.09	-8.23	572.23	-8.96	592.72	-9.81	612.86	-10.47	633.11	-11.19
653.27	-11.91	674.17	-12.70	694.85	-13.48	715.87	-14.14	736.29	-14.89
756.65	-15.72	777.19	-16.47	797.31	-17.29	818.40	-18.18	839.44	-19.09
860.95	-19.91	882.62	-20.67	902.74	-21.23	923.22	-21.69	943.28	-22.01
965.82	-22.64	985.95	-23.16	1008.01	-23.79	1028.00	-24.67	1048.55	-25.10
1071.28	-25.49	1092.46	-25.82	1125.42	-26.05	1159.26	-25.89	1179.70	-25.33
1203.54	-24.74	1224.08	-26.05	1252.26	-26.80	1273.21	-27.79	1294.05	-29.17
1323.18	-30.61	1350.89	-30.81	1376.90	-31.33	1398.18	-31.76	1418.70	-32.09
1440.47	-32.68	1460.88	-32.94	1483.22	-33.53	1508.07	-33.92	1531.80	-34.38
1552.20	-34.78	1573.18	-35.07	1596.80	-35.56	1618.68	-35.89	1639.66	-36.29
1664.36	-36.65	1684.82	-37.11	1706.72	-37.47	1727.37	-37.86	1748.07	-38.12
1769.40	-38.32	1795.17	-38.62	1815.44	-38.91	1836.06	-39.21	1856.25	-39.24
1878.01	-39.44	1906.95	-39.53	1933.05	-39.60	1969.58	-39.44	1994.66	-39.73
2024.36	-39.99	2044.65	-39.89	2083.83	-39.73	2107.29	-39.93	2145.90	-39.89
2168.33	-40.65	2190.72	-40.65	2214.04	-40.72	2245.25	-40.81	2265.50	-41.04
2291.68	-41.31	2311.95	-41.67	2334.95	-41.86	2355.93	-42.16	2384.41	-42.22
2406.69	-42.62	2426.77	-42.55	2448.28	-42.95	2480.62	-42.98	2504.92	-43.24
2526.17	-43.50	2548.42	-43.80	2569.12	-44.36	2590.42	-44.82	2610.51	-43.27
2631.81	-42.42	2654.69	-41.01	2678.05	-41.40	2712.49	-41.04	2736.48	-41.21
2770.92	-40.72	2790.94	-40.72	2811.53	-41.27	2831.90	-41.21	2851.98	-41.60
2873.39	-41.14	2900.60	-41.31	2921.63	-41.73	2942.15	-40.81	2964.12	-40.88

2987.06 -42.55
R-24 1974 700920.95 957477.98 95.00 11.48
30MAY24 30MAY24 140 00 16 224

-003.04	10.78	-000.12	10.54	001.82	10.85	008.80	10.27	013.63	9.80
018.29	8.34	024.84	7.26	035.16	6.77	050.93	5.49	065.76	3.40
086.76	0.27	105.53	-2.05	125.18	-3.13	146.52	-1.85	164.40	-2.02
180.36	-2.98	191.16	-3.48	211.49	-5.02	241.86	-6.89	263.06	-7.91
283.66	-8.99	304.24	-9.58	327.67	-10.30	348.28	-10.89	368.93	-11.81
390.36	-12.04	410.49	-11.48	431.08	-10.53	451.36	-9.06	471.55	-7.91
491.70	-7.58	511.89	-7.94	532.13	-8.56	553.17	-9.35	573.77	-10.20
593.89	-11.09	614.93	-11.91	636.05	-12.70	656.49	-13.48	678.79	-14.27
700.27	-15.09	720.33	-15.85	740.90	-16.63	761.35	-17.39	781.63	-18.08
801.69	-18.93	821.91	-19.69	842.22	-20.51	862.94	-21.13	884.97	-21.69
907.03	-22.34	927.08	-22.93	948.84	-23.59	970.99	-24.08	992.67	-24.51
1013.61	-24.87	1034.74	-25.30	1055.22	-25.66	1076.13	-25.98	1099.27	-26.44
1122.89	-26.74	1143.53	-27.26	1166.67	-27.56	1186.64	-27.95	1207.23	-28.28
1227.55	-28.51	1252.57	-28.90	1276.10	-29.27	1297.00	-29.49	1318.68	-29.92
1339.22	-30.12	1365.15	-30.41	1385.15	-30.87	1408.88	-31.14	1431.00	-31.43
1451.30	-31.86	1473.29	-32.12	1493.54	-32.35	1513.54	-32.64	1543.03	-32.97
1563.56	-33.40	1585.28	-33.73	1606.84	-34.06	1633.13	-34.35	1656.28	-34.74
1676.76	-35.10	1697.91	-35.43	1719.76	-35.83	1741.08	-36.15	1761.43	-36.58
1782.24	-36.97	1803.18	-37.40	1823.97	-37.73	1845.59	-38.16	1866.47	-38.62
1890.24	-39.14	1912.91	-39.57	1947.66	-40.03	1968.62	-40.68	1988.84	-41.11
2009.58	-41.50	2032.57	-41.99	2055.32	-42.55	2075.34	-42.95	2099.16	-43.44
2119.72	-43.93	2141.27	-44.06	2169.66	-44.42	2194.41	-44.55	2218.40	-44.75
2253.25	-44.98	2273.55	-45.31	2294.77	-45.54	2315.40	-45.87	2337.55	-45.67
2372.51	-45.31	2406.76	-45.24	2439.74	-45.70	2460.34	-45.14	2480.96	-45.67
2502.68	-45.93	2523.59	-45.34	2547.29	-45.93	2586.34	-45.83	2613.52	-44.65
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Section 3

ASCII Raw Data XYZ Format File

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960238.20	715375.59	-39.60
960216.65	715376.38	-38.98
960196.34	715377.76	-38.42
960175.05	715378.78	-37.89
960154.21	715379.33	-37.40
960132.46	715380.81	-36.78
960110.31	715382.61	-36.02
960089.65	715384.94	-35.24
960069.76	715388.42	-34.51
960046.99	715392.00	-33.83
960027.28	715396.26	-33.20
960007.00	715400.30	-32.61
959986.96	715403.12	-31.96
959965.66	715404.56	-31.36
959945.65	715405.09	-30.77

959925.41	715403.81	-30.18
959903.49	715402.59	-29.72
959883.45	715401.45	-28.94
959855.33	715401.15	-28.25
959834.10	715401.71	-27.76
959812.64	715402.30	-27.10
959790.56	715404.33	-26.57
959769.21	715406.24	-26.12
959748.77	715409.32	-25.39
959727.47	715412.96	-24.87
959706.90	715416.77	-24.34
959686.37	715421.13	-23.75
959666.68	715424.67	-23.29
959646.08	715430.15	-22.80
959623.87	715433.11	-22.41
959603.43	715435.47	-21.92
959582.76	715437.08	-21.46
959561.04	715437.67	-20.87
959540.93	715438.29	-20.34
959518.91	715437.60	-19.82
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959396.50	715441.24	-14.47
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959355.56	715448.43	-12.63
959334.79	715452.59	-11.75
959314.75	715455.38	-10.79
959294.24	715458.20	-9.81
959274.16	715459.12	-9.02
959254.05	715458.70	-8.46
959544.73	715958.56	-19.23
959565.24	715954.46	-19.82
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959876.42	715931.24	-27.33

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959976.29	715913.19	-30.25
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960270.81	715896.20	-39.40
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960331.54	715890.39	-41.47
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960448.40	715876.41	-44.32
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960120.03	721359.77	-22.74
960139.97	721357.73	-23.49
960159.86	721354.22	-24.28
960180.13	721351.27	-24.90
960200.14	721348.42	-25.39
960220.45	721345.92	-25.98
960241.55	721343.63	-26.57
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960281.57	721336.97	-27.72
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960390.73	721329.19	-32.02
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960431.28	721326.89	-33.79
960451.32	721325.02	-34.91
960471.34	721324.79	-36.06
960491.42	721324.43	-37.24
960512.02	721324.24	-38.42
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960663.96	721307.44	-45.37
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961533.77	721233.36	-39.30
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961986.82	721182.96	-42.59
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958067.70	701461.71	-8.23

958046.18	701464.27	-7.51
958025.74	701467.71	-7.12
958005.76	701471.22	-7.35
957985.81	701474.28	-8.53
957965.90	701477.59	-10.63
957945.88	701480.94	-11.94
957926.07	701484.38	-12.89
957906.12	701486.55	-13.19
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957864.16	701489.83	-10.86
957843.75	701489.92	-10.24
957823.61	701489.76	-9.45
957794.31	701489.27	-8.99
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957712.81	701494.94	-5.15
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958294.70	702109.97	-12.93
958273.93	702111.81	-12.24
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958232.53	702114.92	-10.83
958211.79	702115.94	-10.17
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958065.01	702123.36	-7.05
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957906.41	702144.81	-10.83
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958357.53	703487.10	-8.96
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958087.22	703516.17	-11.32
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958007.99	703519.51	-9.51
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958183.19	705509.83	-11.35
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958407.66	713012.05	-3.08
959174.19	713443.54	-10.50
959153.72	713443.87	-9.61
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959112.55	713449.02	-8.14
959091.98	713451.19	-7.94
959072.13	713454.24	-8.01
959049.62	713456.40	-8.66
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958765.14	713476.09	-10.86
958738.76	713479.86	-10.56
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958480.33	713509.00	-3.77
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958416.88	713513.72	-2.99
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959257.99	713939.93	-13.85
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959882.26	701970.21	-41.37
959911.82	701968.01	-40.88
959931.90	701968.30	-40.52
959959.49	701968.07	-40.39
959979.80	701967.61	-40.78
960012.58	701964.14	-41.77
960034.56	701961.91	-42.03
960055.30	701958.99	-41.86
960075.18	701955.21	-42.29
960096.99	701951.77	-42.42
960129.80	701947.14	-42.59
960149.95	701944.94	-41.40
960183.67	701943.99	-41.01
960204.21	701944.39	-40.91
960225.67	701943.66	-40.58
960257.20	701944.71	-40.06
960279.02	701944.58	-39.24
960313.86	701940.91	-39.40
960336.82	701938.91	-40.49
960360.25	701936.84	-40.68
960388.60	701932.54	-40.81
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960432.39	701926.80	-42.26
960452.34	701923.09	-41.96
960475.57	701919.35	-42.85
960496.34	701917.94	-43.44
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960557.39	701919.16	-44.32
960578.23	701918.60	-43.73
960604.97	701915.88	-43.64
960625.01	701913.45	-44.82
960738.50	703278.57	-62.11
960718.84	703282.54	-59.51
960697.29	703284.15	-54.72
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960488.07	703308.06	-38.32
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960375.77	703314.10	-39.60
960348.93	703315.28	-39.57
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960118.48	703336.61	-40.58
960094.44	703339.43	-40.26
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960005.82	703345.96	-40.58
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959941.65	703351.37	-41.50
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959880.82	703356.56	-42.65
959852.97	703359.08	-42.68
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959807.63	703363.90	-43.34
959785.91	703365.84	-43.77
959750.74	703369.25	-43.64
959729.64	703369.91	-43.18
959708.45	703371.06	-42.55
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959661.82	703372.83	-41.93
959641.25	703375.26	-42.19
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959577.47	703385.59	-41.54
959556.35	703388.67	-41.37
959536.33	703390.31	-41.54
959515.63	703392.32	-41.54
959494.63	703393.66	-41.93
959473.80	703391.20	-42.42
959453.72	703389.72	-42.75
959433.74	703387.76	-43.11
959412.51	703387.69	-43.14
959390.63	703391.20	-43.24
959365.57	703392.05	-43.50
959345.68	703394.51	-43.08
959321.18	703396.58	-42.68
959295.49	703399.17	-41.99
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959246.24	703405.57	-40.62
959226.79	703410.43	-39.86
959204.12	703412.89	-39.01
959183.68	703417.45	-37.86
959157.66	703420.17	-37.30
959135.42	703421.91	-36.58
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958822.00	703446.45	-25.92
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959266.32	704398.32	-39.86
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959423.24	707422.89	-37.24
959403.30	707425.38	-36.38
959383.41	707429.12	-35.60
959362.84	707432.79	-34.65
959343.32	707437.94	-33.69
959322.82	707442.31	-32.81
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959283.22	707450.15	-31.14
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959197.75	707451.43	-27.85
959177.61	707449.43	-27.17
959156.28	707448.21	-26.44
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959114.98	707448.54	-25.16
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959054.41	707455.14	-23.52
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958951.07	707470.59	-20.64
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958908.32	707473.57	-18.83
958888.34	707474.76	-17.95
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959126.66	708440.27	-24.44
959151.29	708439.12	-25.13
959171.34	708436.43	-25.72
959190.89	708431.48	-26.31
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959371.50	708415.44	-32.58
959393.19	708415.86	-32.94
959413.40	708415.44	-34.35
959437.19	708415.27	-35.30
959457.30	708415.17	-36.06
959478.33	708416.19	-36.88
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961241.32	711767.07	-44.52
961270.48	711763.72	-44.06
961317.27	712269.40	-42.36
961285.57	712271.63	-39.37
961260.71	712272.65	-37.11
961240.56	712273.73	-38.12
961220.45	712273.93	-39.21
961199.78	712274.22	-40.65
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961157.82	712279.04	-42.95
961137.67	712281.18	-43.60
961099.45	712286.43	-43.70
961075.37	712288.16	-43.47
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961028.00	712292.79	-43.14
961008.02	712294.33	-42.59
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960822.35	712312.08	-42.22
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960767.96	712312.34	-41.93
960746.27	712311.92	-41.80
960725.37	712313.13	-41.70
960705.20	712317.69	-41.60
960680.56	712321.47	-41.57
960650.18	712326.75	-41.50
960629.54	712330.65	-41.57
960595.81	712334.88	-41.70
960575.83	712336.79	-41.86
960547.58	712339.31	-41.77

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960417.47	712352.67	-42.03
960389.91	712354.40	-41.93
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960275.90	712364.18	-41.31
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960126.82	712376.16	-41.54
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960064.09	712382.85	-41.57
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960021.77	712383.37	-41.24
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959803.79	712398.20	-34.58
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959528.69	712420.74	-26.28
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959462.71	712422.19	-24.51
959441.65	712423.70	-23.82
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959376.23	712425.01	-22.24

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959335.19	712429.80	-21.16
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959384.92	712935.18	-21.42
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959441.71	712927.01	-23.23
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959792.24	712896.50	-34.88
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958954.13,701389.05,-32.7
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958996.72,701385.33,-33.5
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959045.11,701381.09,-34.4
959065.43,701379.32,-34.8
959086.33,701377.49,-35.1
959109.86,701375.43,-35.6
959131.66,701373.52,-35.9
959152.56,701371.69,-36.3
959177.17,701369.54,-36.6
959197.55,701367.76,-37.1
959219.37,701365.85,-37.5
959239.94,701364.05,-37.9
959260.56,701362.24,-38.1
959281.81,701360.38,-38.3
959307.48,701358.14,-38.6
959327.67,701356.37,-38.9
959348.21,701354.57,-39.2
959368.33,701352.81,-39.2
959390.00,701350.92,-39.4
959418.83,701348.40,-39.5
959444.83,701346.12,-39.6
959481.23,701342.94,-39.4
959506.21,701340.75,-39.7
959535.80,701338.16,-40.0
959556.01,701336.39,-39.9
959595.04,701332.98,-39.7
959618.41,701330.93,-39.9

959656.87,701327.57,-39.9
959679.22,701325.61,-40.6
959701.52,701323.66,-40.6
959724.75,701321.63,-40.7
959755.85,701318.91,-40.8
959776.02,701317.14,-41.0
959802.10,701314.86,-41.3
959822.29,701313.10,-41.7
959845.20,701311.09,-41.9
959866.10,701309.26,-42.2
959894.48,701306.78,-42.2
959916.67,701304.84,-42.6
959936.68,701303.09,-42.5
959958.10,701301.21,-43.0
959990.32,701298.39,-43.0
960014.53,701296.28,-43.2
960035.70,701294.42,-43.5
960057.86,701292.49,-43.8
960078.48,701290.68,-44.4
960099.70,701288.82,-44.8
960119.72,701287.07,-43.3
960140.93,701285.22,-42.4
960163.73,701283.22,-41.0
960187.00,701281.19,-41.4
960221.31,701278.18,-41.0
960245.21,701276.09,-41.2
960279.52,701273.09,-40.7
960299.46,701271.35,-40.7
960319.97,701269.55,-41.3
960340.26,701267.78,-41.2
960360.27,701266.03,-41.6
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960408.70,701261.79,-41.3
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960471.98,701256.25,-40.9
960494.83,701254.25,-42.5
960515.80,701252.42,-43.2
960538.40,701250.44,-43.7
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957760.56,700896.23,-9.0
957781.06,700894.44,-9.6
957804.40,700892.39,-10.3
957824.94,700890.60,-10.9
957845.51,700888.80,-11.8
957866.85,700886.93,-12.0
957886.91,700885.18,-11.5

957907.42,700883.38,-10.5
957927.62,700881.61,-9.1
957947.74,700879.85,-7.9
957967.81,700878.10,-7.6
957987.92,700876.34,-7.9
958008.08,700874.57,-8.6
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958049.57,700870.94,-10.2
958069.61,700869.19,-11.1
958090.57,700867.36,-11.9
958111.61,700865.52,-12.7
958131.97,700863.73,-13.5
958154.19,700861.79,-14.3
958175.59,700859.92,-15.1
958195.57,700858.17,-15.8
958216.06,700856.38,-16.6
958236.43,700854.60,-17.4
958256.64,700852.83,-18.1
958276.62,700851.08,-18.9
958296.76,700849.32,-19.7
958317.00,700847.55,-20.5
958337.64,700845.74,-21.1
958359.58,700843.82,-21.7
958381.56,700841.90,-22.3
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958423.21,700838.25,-23.6
958445.27,700836.32,-24.1
958466.87,700834.43,-24.5
958487.73,700832.61,-24.9
958508.78,700830.77,-25.3
958529.18,700828.98,-25.7
958550.02,700827.16,-26.0
958573.07,700825.14,-26.4
958596.60,700823.08,-26.7
958617.16,700821.28,-27.3
958640.21,700819.27,-27.6
958660.10,700817.53,-27.9
958680.62,700815.73,-28.3
958700.86,700813.96,-28.5
958725.78,700811.78,-28.9
958749.22,700809.73,-29.3
958770.04,700807.91,-29.5
958791.64,700806.02,-29.9
958812.10,700804.23,-30.1
958837.94,700801.97,-30.4
958857.86,700800.22,-30.9
958881.50,700798.16,-31.1
958903.53,700796.23,-31.4
958923.76,700794.46,-31.9
958945.66,700792.54,-32.1

958965.84,700790.78,-32.4
958985.76,700789.03,-32.6
959015.14,700786.46,-33.0
959035.59,700784.67,-33.4
959057.23,700782.78,-33.7
959078.71,700780.90,-34.1
959104.90,700778.61,-34.4
959127.96,700776.59,-34.7
959148.36,700774.81,-35.1
959169.43,700772.97,-35.4
959191.20,700771.06,-35.8
959212.43,700769.20,-36.1
959232.71,700767.43,-36.6
959253.44,700765.61,-37.0
959274.30,700763.79,-37.4
959295.01,700761.98,-37.7
959316.55,700760.09,-38.2
959337.35,700758.27,-38.6
959361.03,700756.20,-39.1
959383.61,700754.23,-39.6
959418.23,700751.20,-40.0
959439.11,700749.37,-40.7
959459.25,700747.61,-41.1
959479.91,700745.80,-41.5
959502.82,700743.80,-42.0
959525.48,700741.81,-42.5
959545.42,700740.07,-43.0
959569.15,700737.99,-43.4
959589.63,700736.20,-43.9
959611.10,700734.32,-44.1
959639.38,700731.85,-44.4
959664.04,700729.69,-44.5
959687.94,700727.60,-44.8
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959742.88,700722.79,-45.3
959764.02,700720.94,-45.5
959784.57,700719.14,-45.9
959806.63,700717.21,-45.7
959841.46,700714.17,-45.3
959875.58,700711.18,-45.2
959908.44,700708.31,-45.7
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959949.50,700704.71,-45.7
959971.14,700702.82,-45.9
959991.97,700701.00,-45.3
960015.58,700698.93,-45.9
960054.48,700695.53,-45.8
960081.55,700693.16,-44.6
960101.86,700691.38,-43.7
960122.04,700689.62,-43.0

960143.82,700687.71,-42.2
960164.39,700685.91,-40.6
960186.32,700683.99,-42.0
960207.60,700682.13,-41.1
960228.29,700680.32,-41.6
960256.61,700677.84,-41.8
960277.34,700676.03,-41.9
960311.38,700673.05,-42.0
960350.53,700669.63,-42.5
960380.20,700667.03,-43.9
960415.42,700663.95,-43.5
960435.56,700662.19,-44.8
960463.68,700659.73,-45.3
960486.13,700657.76,-45.1
960515.82,700655.17,-45.2
960535.56,700653.44,-46.5
960561.18,700651.20,-46.7

Section 5

Field Notes

5-22-24

35783-G

P. VOUTE (CPE) post CON. ON/OFF BEACH

R. AMB. PROFILES DEERFIELD/HILLSBORO

A. APA SET CONTROL HUBS

BASE STA @ PT # 205 (SIRC)

BASE ROUR - TRIMBLE R780

BASE ANT HT - 6.562' BOTTOM QUICK REL

ROVER ROUR - TRIMBLE R780

ROVER ANT HT - 6.562' BOTTOM ANT MOUNT

PT	CODE			EL
1000	CKPT 206 (SPK0)			
1001	SH @ R-24	WIG	25	7.29
1002	"	"	35	6.47
1003	" R-23	"	30	5.57
1004	"	"	40	4.48
1005	" R-22	"	55	5.09
1006	"	"	65	4.15
1007	" R-21	"	60	5.33
1008	"	"	70	4.64
1009	" R-20	"	75	5.11
1010	"	"	85	4.87
1011	" R-19	"	60	5.22
1012	"	"	70	4.84
1013	" R-18	"	65	5.64
1014	"	"	75	4.45
	CONT			

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FILE 35783-GA

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35783-G

(CPE) POST-CON. ON/OFF BEACH PROFILES
DEERFIELD / HILLSBORO COVT

PT	CODE	EL
1015	SH @ R-17	100 5.86
1016	" " "	110 5.46
1017	" R-16	130 5.93
1018	" " "	140 5.88
1019	" R-15	85 5.55
1020	" " "	95 5.40
1021	" R-14	30 5.72
1022	" " "	40 4.87
1023	" R-13	65 5.39
1024	" " "	75 4.86
1025	" R-12.5	50 5.32
1026	" " "	60 5.34
1027	" R-12	45 5.35
1028	" " "	55 4.87

1029-38	SAND - SAND	VEG, GB-GB
1039-48	" "	" " "
1049-52	" "	" (SEE PG 6)
1053-58	" "	" " "
1059-68	" "	" " "
1069-79	" "	" GRASS-GRASS
1080-95	" "	" GB-GB, WALL

CONT

Pno 70 / 2

FILE 35783-GA

STA

R-12	UPLANDS
R-12.5	"
R-13	" *
R-14	"
R-15	"
R-16	"
R-17	"

5-22-24

35783-6

(CPE) post-Cont. on/off Beach Profiles

DEERFIELD / HILLSBORO UPLANDS CONT.

PT

CODE

1096-26 SAND-SAND, VEG, GB-GB

1107-19 " " " " "

1120-28 " " " " "

1129-39 " " " " "

1140-49 " " " " "

1150-57 " " " " "

1158-65 " " " " "

1166

CKPT 206 (SPKD)

Bzo. 70 / 3

FILE 35783-6A

STA

R-18

UPLANDS

R-19

H

R-20

H

R-21

H

R-22

H

R-23

H

R-24

H

5-23-24

35783-6

P. Voute (CPE) post-Con. on/off Bench

R. Amis profiles DEERFIELD/HILLSBORO

A. Apa SET Control Hubs/UPLANDS

BASE STA @ PT #202 (SIRC)

BASE ROVR - TRIMBLE R780

BASE ANT HT - 6.562' BOTTOM QUICK 125

ROVER ROVR - TRIMBLE R780

ROVER ANT HT - 6.562' BOTTOM ANT MOUNT

PT		CODE		EC
1167		CKPT 204 (SIRC)		
1168	SA @ R-7	WGS	15	5.27
1169	"	"	25	4.77
1170	"	R-7+500	"	25
1171	"	"	35	4.90
1172	"	R-8	"	30
1173	"	"	40	5.38
1174	"	R-8.5	"	60
1175	"	"	70	7.55
1176	"	R-9	"	120
1177	"	"	130	6.47
1178	"	R-9.5	"	110
1179	"	"	120	5.51
1180	"	R-10	"	95
1181	"	"	105	5.50

CONT

Bno 70 / 4

FILE 35783-6A

5-23-24 35783-6
(CPE) post-CON, ON/OFF BEACH PROFILES
DEERFIELD/HILLSBORO CONTROL/UPLANDS

PT	CODE				Z
1182	SA @	R-10.5	1203	65	5.91
1183	"	"	"	75	5.71
1184	"	R-11	"	70	5.74
1185	"	"	"	80	4.97
1186	"	R-11.5	"	60	5.75
1187	"	"	"	70	5.35

1188-98 SAND-SAND, VEG, GB-GB

1195-11 " " " " "

1212-16 " " (SEE NEXT PG)

1217-54 " " VEG, GB-GB

1225-36 " " " " "

1237-52 " " STEP-STEP, BRICK-

1253-61 " " WALL, GRASS-GRASS

1262-71 " " " GB-GB

1272-80 " " WALL, WALL, SAND-

1281-89 " " " " "

1290 CKPT 204 (SIRE)

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FILE 35783-6A

STA

R-11.5 UPLANDS

R-11 "

R-10.5 "

R-10 "

R-9.5 "

R-9 "

R-8.5 "

R-8 "

R-7+500 "

R-7 "

5-23-24 35783-6
(CPE) LEVELED UPLANDS
R-13

STA	+	HI	-	ROO	EL
BM	7.29	12.15			4.86
31				4.8	
26				3.9	
21				1.2	
14				1.0	
3				1.5	
-4				1.2	
TP	6.17	11.74	6.52		5.63
BM			6.37		5.37

R-10.5

BM	19.98	25.69			5.71
22				17.7	
19				17.0	
15				14.9	
11				13.1	
7				10.4	
0				4.7	
-2				4.2	
TP	5.97	12.10	19.56		6.13
BM			6.21		5.89

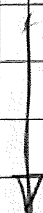
5.39

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DESE
SHA# 1024 75

~~GB~~ VEG

GB

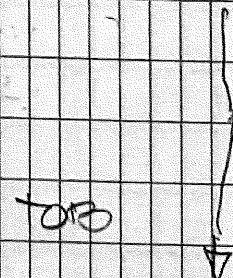


SHA# 1023 65 (5.39)

SHA# 1183 75

VEG

TOR



TOR

SHA# 1182 (65) (5.91)

5-28-24

35783-6

P. Voute (CPE) post-CON. ON/OFF BEACH

R. Amb. PROFILES, DEERFIELD/HILLSBORO

A. APA. SET CONTROL HURS

BASE STA @ PT # 202 (SIRC)

BASE ROVR - TRIMBLE R780

BASE ANT HT - 6.562' BOTTOM QUICK REL.

ROVR ROVR - TRIMBLE R780

ROVR ANT HT - 6.562' BOTTOM ANT MOUNT

PT	CODE			EL	
1291	ck pt 204 (SIRC)				
1292	SH @	R-1	RJG	260	5.42
1293	"	"	"	270	5.53
1294	"	R-2	"	200	5.20
1295	"	"	"	210	5.53
1296	"	R-3	"	185	5.70
1297	"	"	"	175	5.65
1298	"	R-4	"	115	6.36
1299	"	"	"	125	6.25
1300	"	R-4.5	"	90	5.63
1301	"	"	"	100	5.68
1302	"	R-5	"	60	5.68
1303	"	"	"	70	5.06
1304	"	R-5+350	"	85	5.56
1305	"	"	"	95	4.80

CONT

Bno 70/7

FILE 35783-6B

5-28-24 35783-G
(CPE) post. Con. ON/OFF Beach profiles
DEERFIELD/HILLSBORO SET CONTROL TUBS

PT	CODE				EL
1306	SH @	R-5+550	RIG	95	5.25
1307	"	"	"	105	4.46
1308	"	R-5+700	"	105	5.19
1309	"	"	"	115	3.70
1310	"	R-6	"	110	4.35
1311	"	"	"	120	3.41
1312	"	R-6+200	"	95	5.82
1313	"	"	"	105	4.48
1314	"	R-6+400	"	75	6.86
1315	"	"	"	90	4.37
1316	"	R-6.5	"	65	6.30
1317	"	"	"	75	5.03
1318	"	R-6+750	"	50	3.64
1319	"	"	"	60	3.14
1320-31	SAND-SAND, ROCK-ROCK, GB-GB, BRICK				
1332-46	BRICK, GB-GB, BW, BW, GB, ROCK-SAND				
1347-59	BRICK, GB-GB, ROCK, SAND-SAND				
1360-71	SAND, SAND, VEG, GB-GB, BRICK				
1372-83	BRICK, GB-GB, ROCK, GB, VEG, SAND-				
1384-93	SAND-SAND, VEG, GB-GB				
1394	CKPT 20A				

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FILE 35783-G

R-6+750	UPLANDS
R-6+665	(0+98) "
R-6.5	"
R-6+400	"
R-6+200	"
R-6	"

5-29-24

35783-G

Bro 70/9

D. Voute (CPE) post-CON. ON/OFF Beach

R. Ave. profiles, DEERFIELD/HILLSBORO

A. Apa UPLANDS ETC. NEARSHORES

BASE STA @ PT # 202 (S1120)

BASE ROUR - TRIMBLE R780

BASE ANT HT - 6.562' BOTTOM QUICK REL.

ROVER ROUR - TRIMBLE R780

ROVER ANT HT - 6.562' BOTTOM ANT MOUNT

PT	CODE	HR
1395	CRPT 204 (S1120)	
1396-14	SAND-SAND, VES, GB-GB	
1415-28	" " " " "	
1429-	" " , ROCK-ROCK, SAND-SAND,	
1447	GRASS-GRASS BRICK, BRICK	
1448-	SAND-SAND, GRASS, GRASS, CONC-CONC,	
1463	BRICK, BRICK	
1464-78	SAND-SAND, VES, GB-GB, BRICK-	
1479-92	" " , WALL, VES, GB-GB	
1493-	" " , VES, GB-GB, ASP-	
1511	GB-GB, BRICK	
1512-32	SAND-SAND	10.562
1533-48	" "	"
1549-63	" "	"
1564-79	" "	"
	CONT	

FILE 35783-GB

STA

DBL

R-1 UPLANDS

R-2 "

R-3 "

" "

R-4 "

" "

R-4.5 "

R-5 "

R-5+350 "

" "

R-1 NEARSHORES (547)

R-2 (462)

R-3 (460)

R-4 (430)

E-29-24

35783-G

(CPE) POST-CON. ON/OFF BEACH PROFILES
DEERFIELD/HILLSBORO NEARSHORE

CONT

PT

COOR

HR

1580-95 SAND-SAND 10.562

1596-1609 " " "

1610-22 " " "

1623-35 " " "

1636-50 " " "

1651-70 " " Rock-Rock, SAND-"

1671-86 " " "

1687-03 " " " " "

1704-20 " " "

1721-36 Rock, Rock, SAND-SAND "

1737-52 SAND-SAND, Rock, Rock, SAND- "

1753 CRPT 204

Pono 70 (10)

FILE 35783-G

STA

DBL

R-4.5 NEARSHORE (365)

R-5 " (333)

R-5+350 " (340)

R-5+550 " (350)

R-5+700 " (385)

R-6 " (380)

R-6+200 " (370)

R-6+400 " (335)

R-6.5 " (340)

R-6+665 " (330)

R-6+750 " (330)

5-30-24	35783-G	
P. Voute (CPS) post Con on/off Beach		
D. Dow. PROFILES DEERFIELD/HILLSBORO		
A. Apr NEARSHORE & HYDRO SUPPORT		
BASE STA @ PT #202 (S120)		
BASE REVR - TRIMBLE R780		
BASE ANT HT - G. 562' BOTTOM QUICK REC.		
REVR REVR - TRIMBLE R780		
REVR ANT HT - G. 562' BOTTOM ANT MOUNT		
PT	CODE	HR
1754	CKPT 204	
1755-68	SAND-SAND, VEG, GB-GB, BRICK-10.562	
1769-77	BRICK, BRICK, GB, VEG, SAND-SAND 10.562	
1779-92	SAND-SAND, ROCK, SAND - "	
1793-06	" "	"
1809-18	" "	"
1819-28	" "	"
1829-38	" "	"
1840-52	" "	"
1853-64	" "	"
1866-77	" "	"
1878-91	" "	"
1894-03	" "	"
1905-14	" "	"
1916-27	" "	"
	CONT	

35783-G									
FILE 35783-G									
1778 TOW	0.2'	12:23	1904	0.5	2:32				
1808	"	0.1'	12:47	1915	0.4	2:50			
1839	"	0.3	1:10	1928	0.3	3:12			
1865	"	0.3	1:27	1940	0.3	3:40			
1892	"	0.3	1:45	1951	0.1	4:00			
1993	"	0.3	2:15	1965	0.1	4:22			
STA									
R-5+550	UP PLAINS								
R-5+700	"								
R-24	NEARSHORE								
R-23	"					155			
R-22	"					175			
R-21	"					177			
R-20	"					200			
R-19	"					180			
R-18	"					178			
R-17	"					215			
R-16	"					264			
R-15	"					183			
R-14	"					130			
R-13	"					155			

5-30-24 35783-G
 (CPE) post-con, on/off BEACH profiles
 DEERFIELD/HILLSBORO, NEARSHORE

PT	CODE	HR
1929-38	SAND - SAND	10.562
1941-50	" "	"
1952-63	" "	"
1966	CKPT 204	6.562

Brn 70/12

FILE 35783-GB

R-12.5 NEARSHORE

R-12 "

R-11.5 "

5-31-24

35783-G

D. Nourse (CPE) post-CON. ON/OFF BEACH

R. Amb. PROFILES DEERFIELD/HILLSBORO

D. Don, NEARSHORE & Hydro Support

BASE STA @ PT # 202 (SIRC)

BASE ROVER - TRIMBLE R780

BASE ANTIH - 6.562' BOTTOM QUICK REL.

ROVER ROVER - TRIMBLE R780

ROVER ANTIH - 6.562' BOTTOM ANTI MOUNT

PT	CODE		HR
1967	CKPT 204 (SIRC)		
1968-78	SAND - SAND		10.562
1979-93	"	"	6.562
1994-06	"	"	"
2007-18	"	"	"
2019-33	"	"	"
2034-47	"	"	"
2049-62	"	"	"
2063-74	"	"	"
2076-87	"	"	"
2090	TOS	1.09 EL	"
2091	"	1.13	"
2092	"	1.13	"
2093	CKPT 204		"

2.3

Brn 70/13

FILE 35783-62

2048 TOW - 1.8 9:10

2075 " - 1.9 9:26

2088 " - 1.7 9:45

(SEE PG 14 FOR CONT.)

R-14 UPLANDS

R-10.5 "

R-10 "

R-9.5 "

R-9 "

R-8.5 "

R-8 "

R-7+500 "

R-7 "

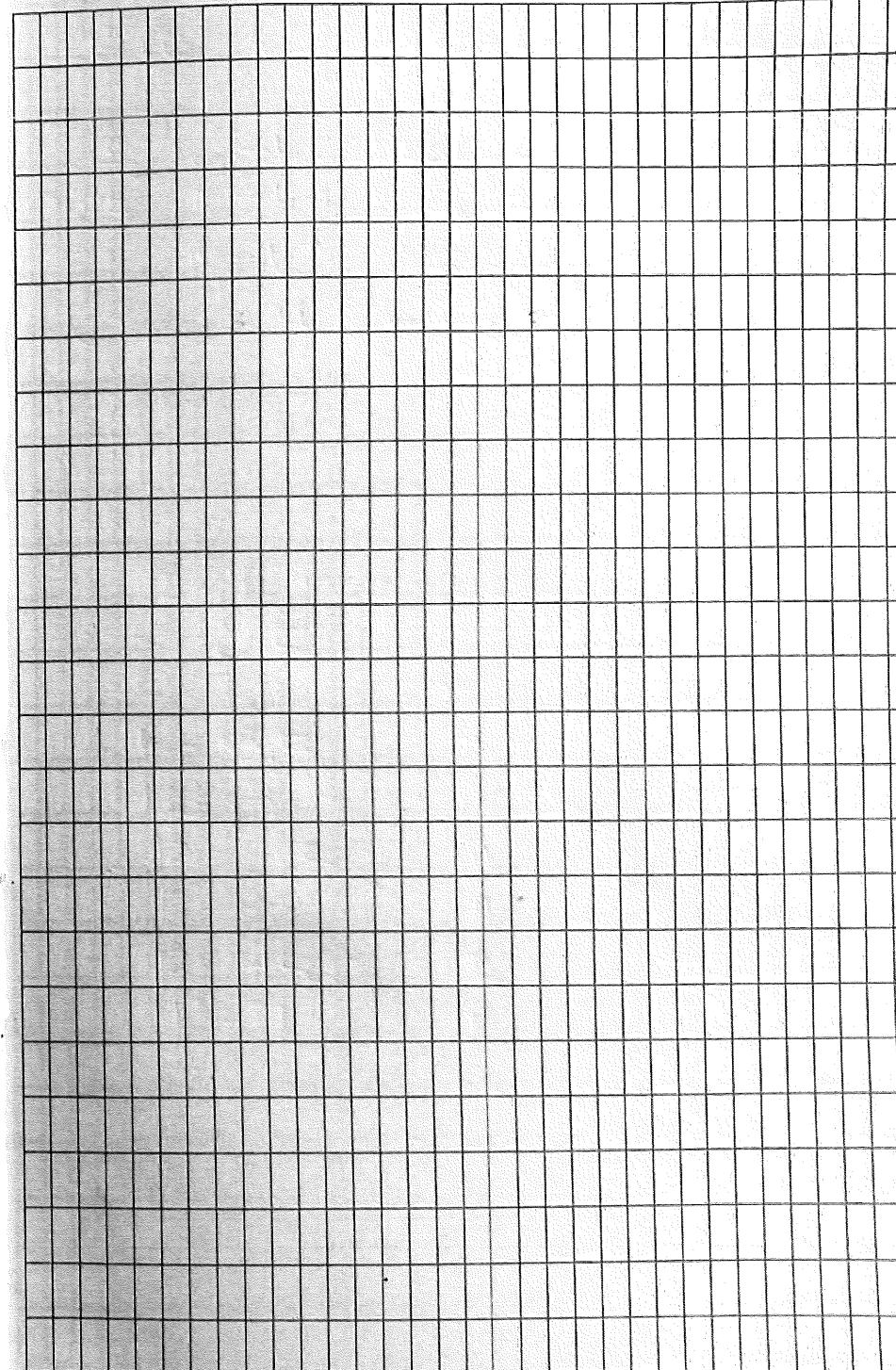
5-31-24 35783-6
(CPE) POST-CON ON/OFF BEACH PROFILES
DEERFIELD/MILLSBORO HYDRO SUPPORT

TIDE READINGS

TOP OF STAFF EL = 1.1' (SEE PG 13)

TIME	READ	EL
9:45	2.8	-1.7
10:00	2.8	-1.7
10:15	2.7	-1.6
10:30	2.7	-1.6
10:45	2.6	-1.5
11:00	2.5	-1.4
11:15	2.4	-1.3
11:30	2.2	-1.1
11:45	2.0	-0.9
12:00		

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Section 6

Metadata

Identification_Information:

Citation:

Citation_Information:

Originator: Morgan & Eklund, Inc.

Publication_Date: 20240613

Publication_Time: Unknown

Title: Deerfield Beach/Town of Hillsboro Coastal Monitoring

Edition: May 2024

Series_Information:

Publication_Information:

Publication_Place: VERO BEACH, Florida

Publisher: Morgan & Eklund, Inc.

Larger_Work_Citation:

Citation_Information:

Series_Information:

Description:

Abstract: This submittal is a hydrographic and topographic survey of the Broward County shore protection monitoring profiles along FDEP ranges R-1 to R-24.

Purpose: To collect hydrographic and topographic survey to monitor the amount of sand accretion and erosion.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Multiple_Dates/Times:

Range_of_Dates/Times:

Beginning_Date: 20240522

Ending_Date: 20240531

Currentness_Reference: Publication date

Status:

Progress:

Maintenance_and_Update_Frequency:

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -80.09736

East_Bounding_Coordinate: -80.06396

North_Bounding_Coordinate: +26.32111

South_Bounding_Coordinate: +26.27305

Keywords:

Theme:

Theme_Keyword_Thesaurus: Theme

Theme_Keyword: Hydrographic

Theme_Keyword: Survey

Theme_Keyword: Topographic

Place:

Place_Keyword_Thesaurus: Place

Place_Keyword: R-1 to R-24

Place_Keyword: Florida

Place_Keyword: Broward County

Place_Keyword: Town of Hillsboro

Stratum:

Stratum_Keyword_Thesaurus: Stratum

Stratum_Keyword: Surface

Temporal:

Access_Constraints: None

Use_Constraints: This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to natural accretion and erosion processes. Morgan & Eklund, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the municipality and it is being provided for external use as a public service. This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Organization_Primary:

Contact_Organization: Morgan & Eklund, Inc.

Contact_Person: David Coggin

Contact_Address:

Address_Type: Mailing address

Address: 4909 US HIGHWAY 1

City: VERO BEACH

State_or_Province: Florida

Postal_Code: 32967

Country: USA

Contact_Voice_Telephone: 772.388.5364

Contact_Facsimile_Telephone: 772.388.3165

Contact_Electronic_Mail_Address: dcoggin@morganeklund.com

Security_Information:

Cross_Reference:

Citation_Information:

Series_Information:

Publication_Information:

Data_Quality_Information:

Attribute_Accuracy:

Logical_Consistency_Report: The quality of the data collected is consistent between dates and vessels/equipment used for collection.

Completeness_Report: The listed survey represents complete collection for this date.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: Survey data is accurate to +/-1.0 feet.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Offshore profile data collection was performed to FDEP specifications using Trimble SPS 852 Real-Time Kinematic GPS, Hypack Navigation Software, an Odom E-20 Digital Echosounder, TSS Motion Compensator. All staff installations, leveling and bathymetric surveys conformed to the FDEP specifications and the Florida Minimum Technical Standards.

The vertical accuracy meets the requirements of a USACE Class I Hydrographic Survey.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: Broward County

Publication_Date: Unknown

Publication_Time: Unknown

Title: Unknown

Geospatial_Data_Presentation_Form: Map

Series_Information:

Publication_Information:

Larger_Work_Citation:

Citation_Information:

Series_Information:

Publication_Information:

Type_of_Source_Media:

Paper

PDF

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Multiple_Dates/Times:

Range_of_Dates/Times:

Beginning_Date: 20240522

Ending_Date: 20240531

Source_Currentness_Reference: Publication date

Source_Citation_Abbreviation: Not available

Source_Contribution: Elevations for the onshore profile line were based on the two RTK/GPS points set on line or from the range monuments value supplied by FDEP and verified during a previous survey. Elevations for the offshore portion of the profile lines for the project area relied on Real-time Kinematic tide files and were verified with a tide staff set offshore of points

Process_Step:

Process_Description:

Onshore profiles were collected along the alignments as shown in the control tabulation using Real Time Kinematic GPS, differential leveling for elevation and a hand-held laser for stationing.

Offshore profile data collection was performed to FDEP specifications using Trimble Applanix MV POS Surfmaster real time kinematic (rtk) dual frequency GPS receiver with real time corrections applied from a local Trimble R-780 dual frequency base station, Hypack Navigation Software, an Odom E-20 Digital Echosounder.

Process_Date: 20240611

Process_Time: UNKNOWN

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: David Coggin

Contact_Organization_Primary:

Contact_Address:

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Point_and_Vector_Object_Count: 5667
Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Florida State Plane Coordinate System, East Zone,
North American Datum of 1983/90 (NAD 83/90)
Universal_Transverse_Mercator:
Transverse_Mercator:
Universal_Polar_Stereographic:
Polar_Stereographic:
State_Plane_Coordinate_System:
SPCS_Zone_Identifier: 0901
Lambert_Conformal_Conic:
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: .999989142278
Longitude_of_Central_Meridian: -080.333333
Latitude_of_Projection_Origin: +27.666666
False_Easting: 656166.667 ft
False_Northing: 0
Oblique_Mercator:
Oblique_Line_Point:
Polyconic:
ARC_Coordinate_System:
Equirectangular:
Azimuthal_Equidistant:
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.01
Ordinate_Resolution: 0.01
Distance_and_Bearing_Representation:
Planar_Distance_Units: Survey feet
Geodetic_Model:
Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude_Datum_Name: North American Vertical Datum of 1988
Altitude_Resolution: .1
Altitude_Distance_Units: feet
Altitude_Encoding_Method: Explicit elevation coordinate included with horizontal
coordinates
Depth_System_Definition:
Depth_Datum_Name: No correction
Depth_Resolution: .1
Depth_Distance_Units: Feet
Depth_Encoding_Method: Explicit depth coordinate included with horizontal

coordinates

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: 3D coordinates

Entity_Type_Definition: position and elevation coordinates within project system

Entity_Type_Definition_Source: n/a

Attribute:

Attribute_Domain_Values:

Attribute_Value_Accuracy_Information:

Overview_Description:

Entity_and_Attribute_Overview: The data attributes consist of horizontal coordinates paired with elevations.

Entity_and_Attribute_Detail_Citation:

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Organization_Primary:

Contact_Address:

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Dialup_Instructions:

Offline_Option:

Recording_Capacity:

Available_Time_Period:

Time_Period_Information:

Single_Date/Time:

Multiple_Dates/Times:

Range_of_Dates/Times:

Metadata_Reference_Information:

Metadata_Date: 20240613

Metadata_Review_Date: 20240613

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: David Coggin

Contact_Organization: Morgan & Eklund, Inc.

Contact_Organization_Primary:

Contact_Address:

Address_Type: mailing address

Address: 4909 US HIGHWAY 1

City: VERO BEACH

State_or_Province: Florida

Postal_Code: 32967

Country: USA

Contact_Voice_Telephone: 772.388.5364

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Security_Information:

Section 7

Survey Report



Morgan & Eklund, Inc.

4909 US Highway 1
Vero Beach, Florida 32967

Phone: 772-388-5364
Fax: 772-388-3165

**Survey Report
Post Construction
Monitoring Survey May 2024
Onshore/Offshore Profiles
Deerfield Beach/The Town of Hillsboro Beach, Broward County, Florida
FDEP Profiles R-1 through R-24
5/31/24**

Location of Work: This submittal is for Deerfield Beach/The Town of Hillsboro, Broward County, Florida.

Date of Work: The monitoring survey was performed on May 22 through May 31, 2024.

Scope of Work: Bathymetric and topographic survey data was collected along previously established survey track lines as shown on the attached survey.

Horizontal Datum: Coordinate values are referenced to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983/1990 adjustment (NAD 83/90).

Vertical Datum: Elevation values are referenced to the North American Vertical Datum of 1988 (NAVD 88).

Bathymetric Survey: Offshore Survey

On May 30 & 31, 2024 a bathymetric survey was performed offshore along survey transects as shown on the attached survey.

Equipment: 26' Parker Survey Boat, Odom E-20 Single Beam Fathometer (200 kHz), Trimble Applanix MV POS Surfmaster, Hypack® 2023 Navigation Software and Trimble R-780, Base RTK/GPS

Personnel: Boat: H. Lawson, D. Titus
Field: P. Voute and R. Ambrose

Field Procedures: The positioning and water surface elevations for the single beam survey relied on Real-time Kinematic GPS, with the RTK/GPS base station receiver set and checked into points shown in the survey control table.

Elevations were verified with a tide staff set from points shown in the survey control table. Data collection was performed to FDEP and USACE specifications

for hydrographic surveying.

The fathometer was calibrated at the beginning and end of each survey day using a “bar check” to compensate for variations of the speed of sound in water.

Data Processing: Hydrographic data was processed using Hypack® 2023 software.

Topographic/Wading Survey:

On May 22 through May 31, 2024 a topographic survey was performed along previously established survey transects as shown on the attached survey. Data was collected along cross-sections from Elev. 14± to -8 ± (NAVD88).

Equipment: Trimble RTK R780 Rover Receiver, Trimble TSC5 Data Collector, Trimble RTK R-780 Base Receiver, and differential level.

Personnel: Field: P. Voute, R. Ambrose, A. Aparicio and D. Donaldson

Field Procedures: The base station was setup and checked into points shown in the survey control table. Elevation data was collected using RTK/GPS, differential leveling and laser.

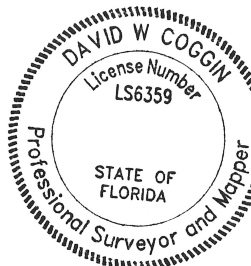
Survey Control:

	83/90 SPCS 0901		NAVD 88	US Survey Feet
Point	Northing	Easting	Elevation	Description
202	718060.52	958756.56	13.69	M&E 5/8" REBAR & CAP
204	718163.39	958766.14	13.12	M&E 5/8" REBAR & CAP

This report is not full and complete without the accompanying survey, “Topographic and Hydrographic Survey, 39 Onshore/Offshore Profiles, Deerfield Beach/The Town of Hillsboro Beach, Broward County, Florida,” dated May 31, 2024.

Certification:

I hereby certify that the information shown hereon is in accordance with a recent field survey made under my direction, and that it is true and correct to the best of my knowledge and belief, and meets the standards of practice as set forth by the Florida Board of Professional Land Surveyors and Mappers in Chapter 5J-17, F.A.C.



Digitally signed by David
W Coggin
DN: c=US, o=Florida,
dnQualifier=A01410C000
0018B95388C8100011EB
6, cn=David W Coggin
Date: 2024.06.13
14:02:42 -04'00'

David W. Coggin
Morgan & Eklund, Inc.
PLS #6359