

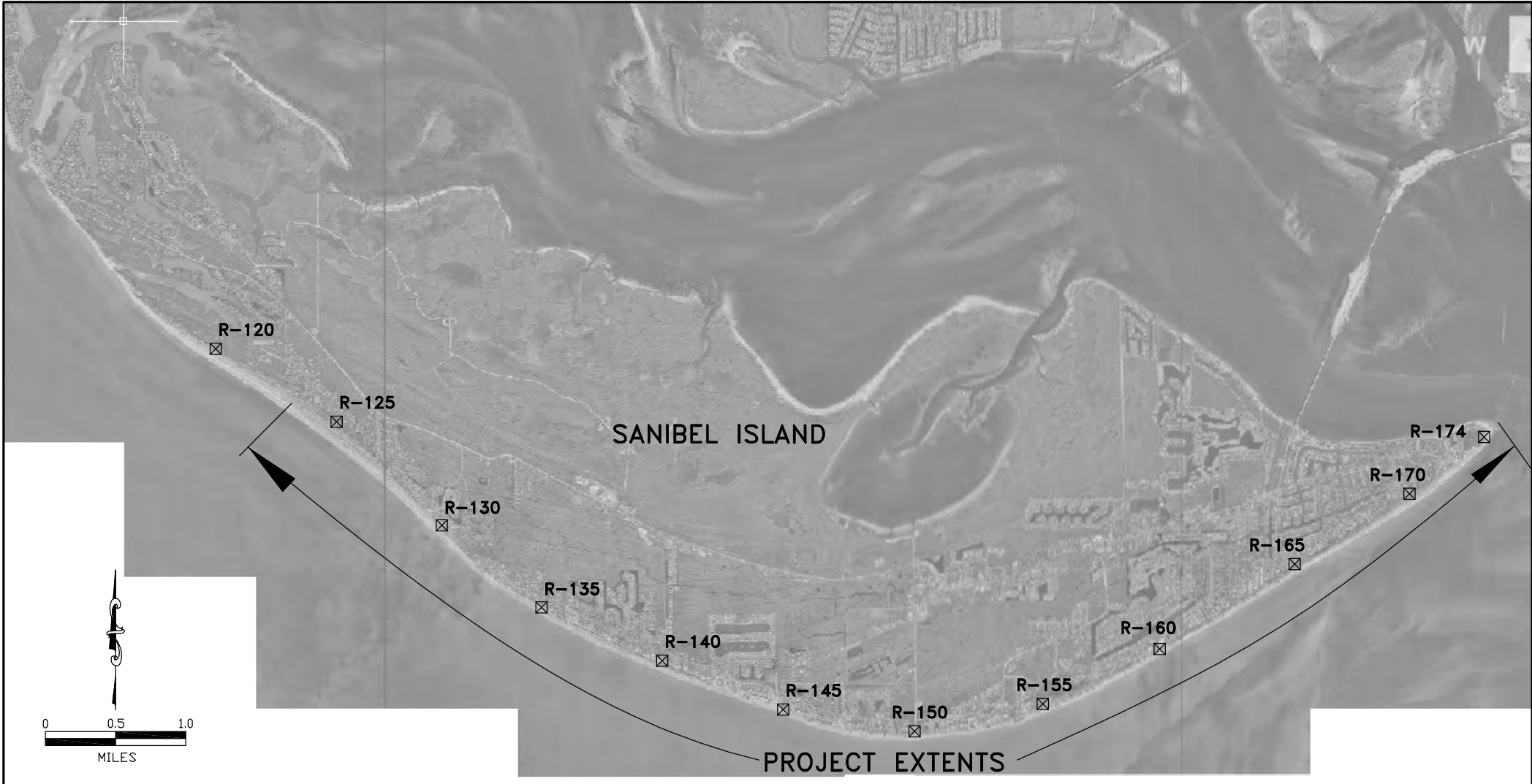
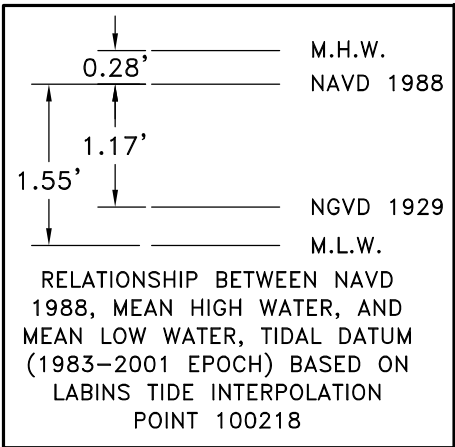
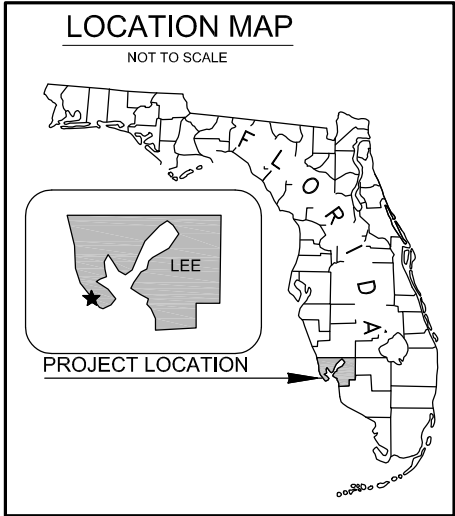
APPENDIX C

Contract Drawings

CONSTRUCTION PLANS

SANIBEL ISLAND POST HURRICANE IAN

EMERGENCY BERM / BEACH RECOVERY PROJECT



SHEET INDEX

1. COVER PAGE
2. PLAN VIEW - TRUCK ROUTES
3. R-MON & VOLUME INFORMATION
4. PLAN VIEW R121.5 TO R126.5
5. PLAN VIEW R127 TO R132.5
6. PLAN VIEW R133 TO R138
7. PLAN VIEW R139 TO R145
8. PLAN VIEW R146 TO R151
9. PLAN VIEW R151 TO R157
10. PLAN VIEW R158 TO R162
11. PLAN VIEW R163 TO R168
12. PLAN VIEW R169 TO R174+200
13. TYPICAL SECTIONS
14. SECTIONS R123.5 TO R127
15. SECTIONS R127.5 TO R131
16. SECTIONS R131.5 TO R136
17. SECTIONS R137 TO R144
18. SECTIONS R145 TO R152
19. SECTIONS R153 TO R160
20. SECTIONS R161 TO R167
21. SECTIONS R168 TO R174

- NOTES:
1. AERIAL PHOTOGRAPH DATED JANUARY 2023 COURTESY OF LEE COUNTY.
 2. COORDINATES SHOWN ARE IN FEET BASED ON THE NORTH AMERICAN DATUM OF 1983, WEST ZONE (NAD83).
 3. ELEVATIONS SHOWN ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



**HUMISTON
& MOORE
ENGINEERS**
COASTAL
ENGINEERING DESIGN
AND PERMITTING

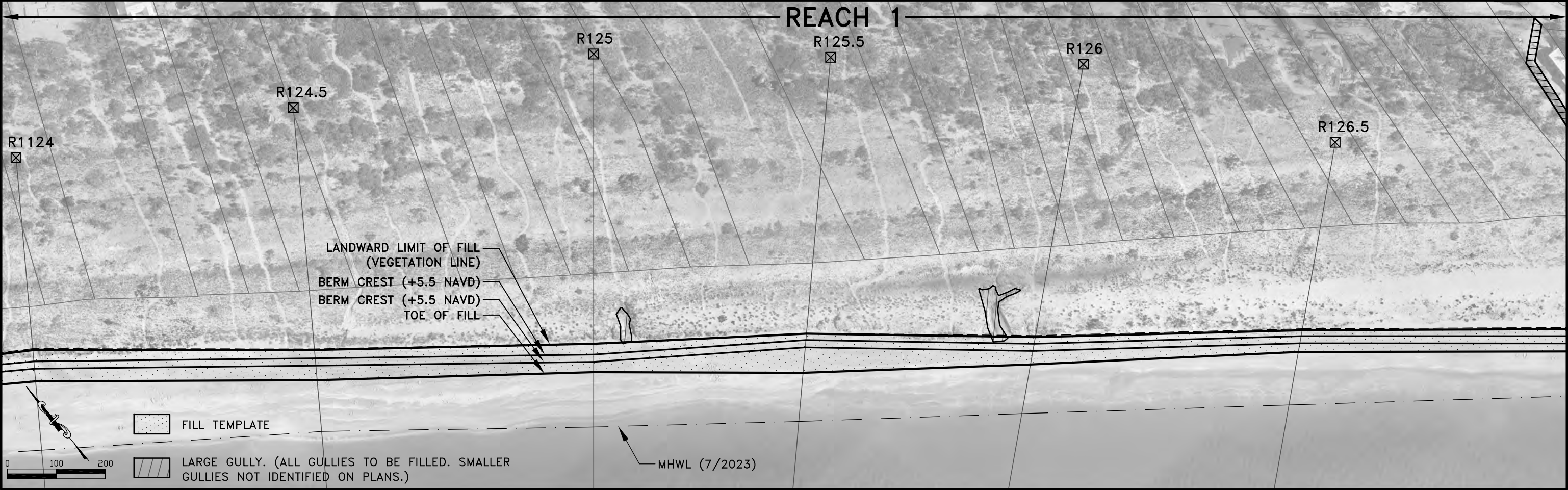
SANIBEL ISLAND POST-STORM EMERGENCY BERM
BEACH RECOVERY PROJECT - COVER PAGE
FOR: CITY OF SANIBEL
DATE: 11/10/23 FILE: PLAN SCALE: SHOWN
JOB: 27008 DATUM: SHOWN SHEET: 1 OF 21

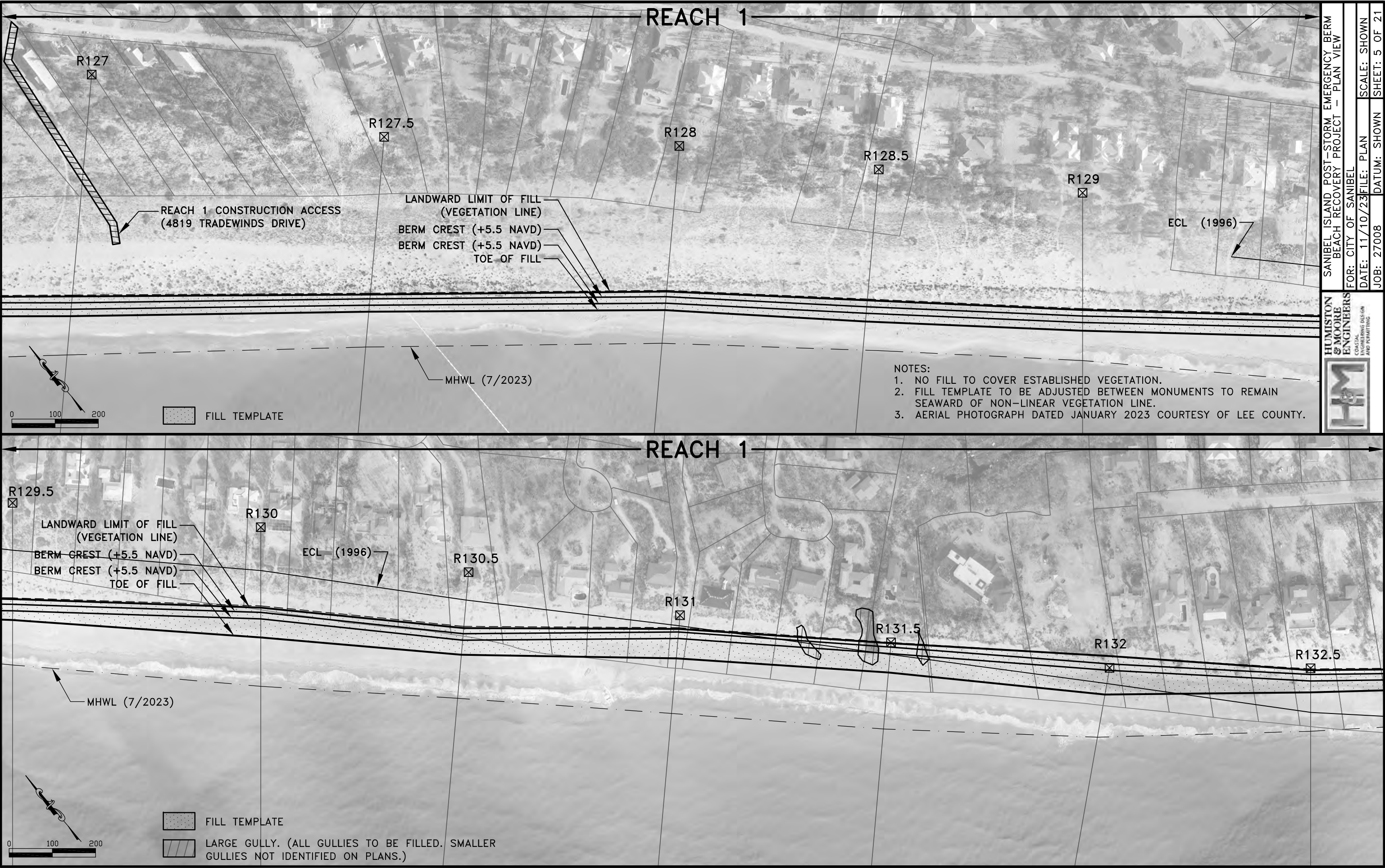
5679 STRAND COURT
NAPLES, FL 34110
FAX: (239) 594-2025
PHONE: (239) 594-2021
www.humistonandmoore.com

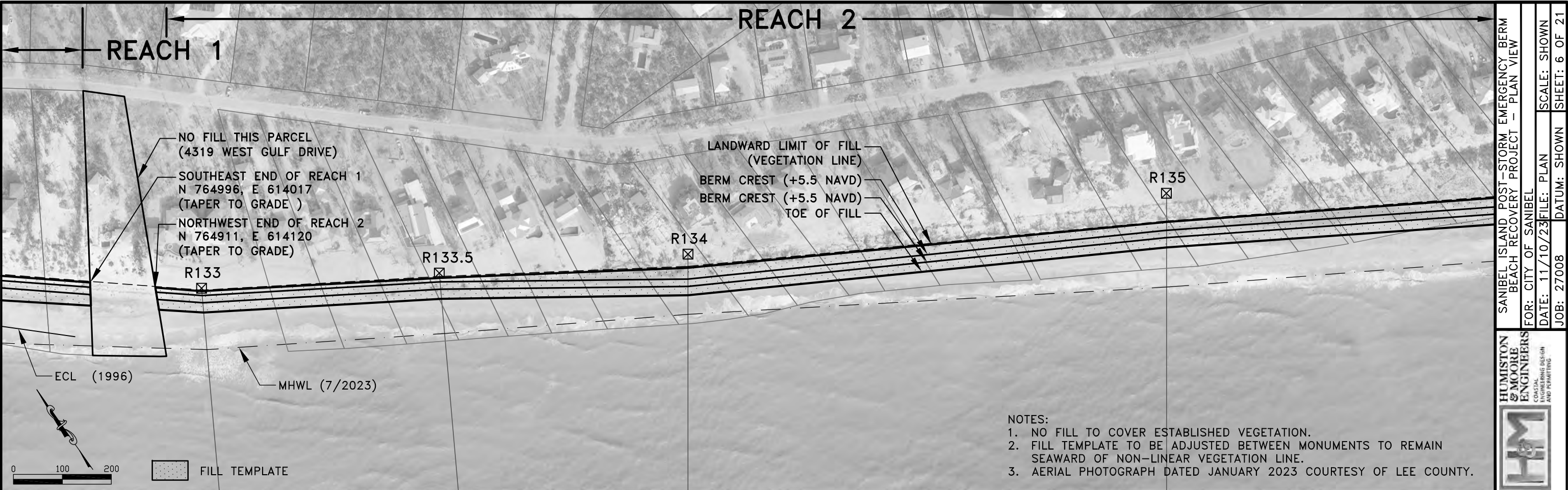
TRUCK ROUTES & BEACH ACCESS



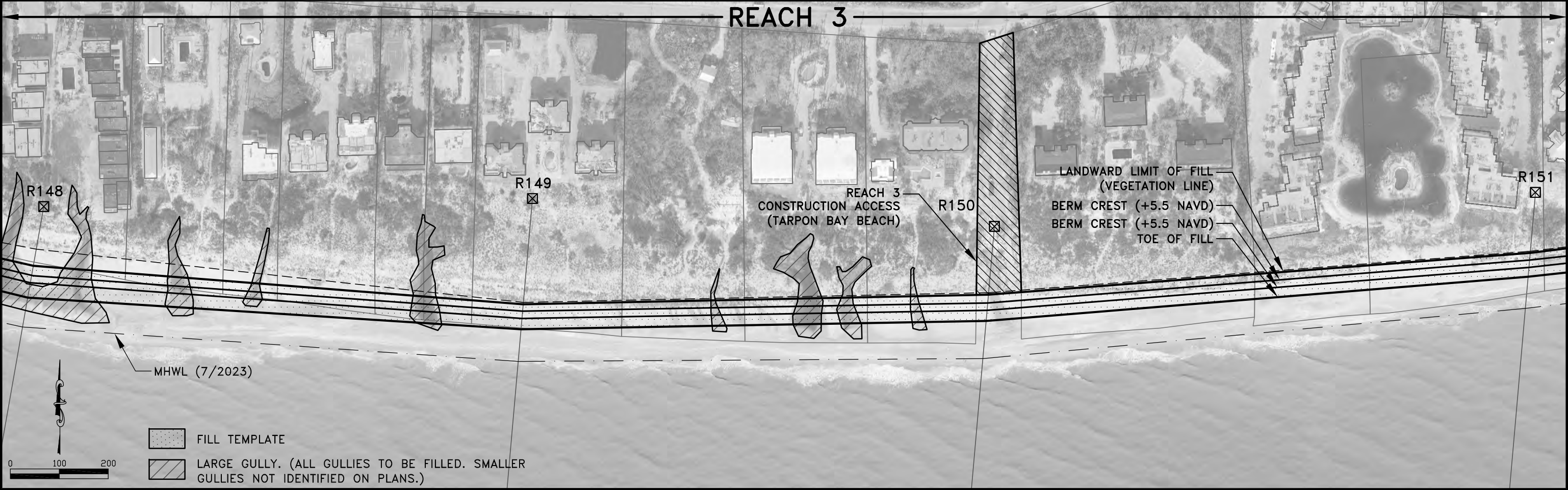
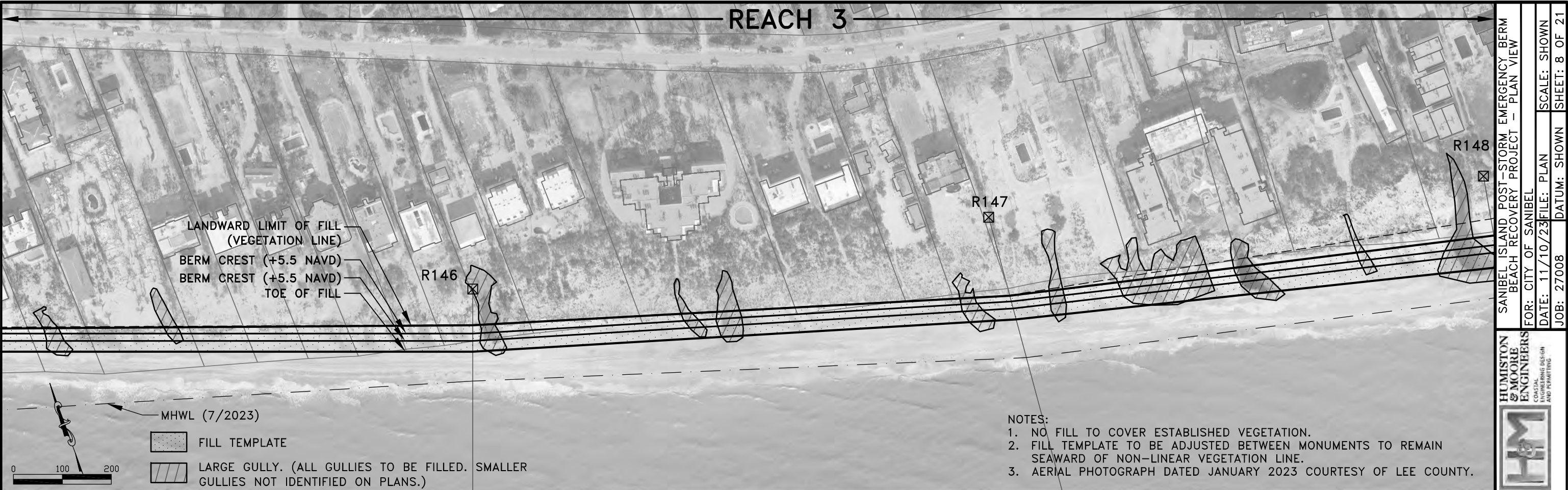
FILL TEMPLATE AND GULLY VOLUME INFORMATION												FILL TEMPLATE MONUMENT INFORMATION							
	MONUMENT RANGE			EFFECTIVE DISTANCE (FEET)	FILL TEMPLATE			GULLIES		FILL TEMPLATE + GULLIES			MAX REACH VOLUME (CY)	MAX REACH VOLUME (TONS)	MONUMENT	NORTHING (FEET)	EASTING (FEET)	AZIMUTH (DEG.)	ELEV. NAVD (FEET)
				MINIMUM	DESIGN (CY)	MAXIMUM	MAJOR (CY)	MINOR (CY)	MINUMUM	DESIGN (CY)	MAXIMUM								
REACH 1	R-123.50	TO	R-124	520	1,098	1,358	1,639	128		1,226	1,486	1,767	34,741	52,112	R-120	773,613.8	603,663.9	210	3.0
	R-124	TO	R-124.50	575	1,656	1,980	2,324			1,656	1,980	2,324			R-120.50	773,372.5	604,127.1	210	3.7
	R-124.50	TO	R-125	570	1,783	2,088	2,410			1,783	2,088	2,410			R-121	773,172.0	604,616.1	205	2.4
	R-125	TO	R-125.50	435	1,230	1,500	1,783	62		1,291	1,562	1,845			R-121.50	772,935.5	605,038.2	205	2.7
	R-125.50	TO	R-126	468	1,236	1,527	1,831	229		1,465	1,756	2,060			R-122	772,699.6	605,468.6	205	2.6
	R-126	TO	R-126.50	545	1,182	1,431	1,696			1,182	1,431	1,696			R-122.50	772,490.9	605,957.3	205	3.6
	R-126.50	TO	R-127	615	1,123	1,371	1,638			1,123	1,371	1,638			R-123	772,253.0	606,485.3	205	2.9
	R-127	TO	R-127.50	689	1,125	1,386	1,672			1,125	1,386	1,672			R-123.50	771,853.2	606,811.6	210	5.1
	R-127.50	TO	R-128	685	949	1,198	1,475			949	1,198	1,475			R-124	771,468.7	607,171.1	215	3.9
	R-128	TO	R-128.50	465	750	937	1,144			750	937	1,144			R-124.50	771,182.7	607,670.6	215	5.4
	R-128.50	TO	R-129	499	881	1,095	1,328			881	1,095	1,328			R-125	770,872.3	608,211.1	220	3.9
	R-129	TO	R-129.50	568	911	1,152	1,417			911	1,152	1,417			R-125.50	770,556.0	608,577.6	225	4.9
	R-129.50	TO	R-130	574	1,147	1,445	1,768			1,147	1,445	1,768			R-126	770,213.2	608,964.1	230	5.3
	R-130	TO	R-130.50	472	1,170	1,445	1,743			1,170	1,445	1,743			R-126.50	769,760.3	609,255.6	230	6.9
	R-130.50	TO	R-131	498	1,066	1,352	1,663	57		1,123	1,409	1,720			R-127	769,480.5	609,794.1	225	4.3
	R-131	TO	R-131.50	492	1,145	1,442	1,759			1,145	1,442	1,759			R-127.50	768,935.3	610,219.6	225	6.8
R-131.50	TO	R-132	511	2,346	2,710	3,091			2,346	2,710	3,091	R-128	768,480.2	610,729.1	225	3.4			
R-132	TO	R-132.50	461	2,076	2,370	2,677			2,076	2,370	2,677	R-128.50	768,142.2	611,047.6	220	6.3			
R-132.50	TO	R-133	351	900	1,048	1,207			900	1,048	1,207	R-129	767,797.8	611,374.1	220	3.5			
REACH 2	R-133	TO	R-133.50	487	1,012	1,200	1,405			1,012	1,200	1,405	43,149	64,724	R-129.50	767,384.4	611,768.6	220	5.9
	R-133.50	TO	R-134	508	1,258	1,481	1,723			1,258	1,481	1,723			R-130	766,972.2	612,172.1	220	7.1
	R-134	TO	R-135	982	3,193	3,669	4,177			3,193	3,669	4,177			R-130.50	766,583.6	612,473.6	225	6.7
	R-135	TO	R-136	909	2,800	3,237	3,703			2,800	3,237	3,703			R-131	766,192.9	612,784.0	225	7.6
	R-136	TO	R-137	1,179	2,805	3,355	3,942			2,805	3,355	3,942			R-131.50	765,831.2	613,117.4	225	7.1
	R-137	TO	R-138	832	1,382	1,721	2,087	47		1,430	1,769	2,134			R-132	765,461.2	613,467.0	230	4.9
	R-138	TO	R-139	1,119	2,509	3,020	3,576			2,509	3,020	3,576			R-132.50	765,164.1	613,824.6	220	8.6
	R-139	TO	R-140	961	2,573	3,061	3,589			2,573	3,061	3,589			R-133	764,855.9	614,197.0	210	9.2
	R-140	TO	R-141	979	2,604	3,081	3,594			2,604	3,081	3,594			R-133.50	764,602.6	614,612.6	210	7.7
	R-141	TO	R-142	1,067	4,035	4,610	5,218	103		4,138	4,713	5,322			R-134	764,342.9	615,051.0	215	7.3
	R-142	TO	R-143	984	3,907	4,459	5,044	148	74	4,128	4,681	5,265			R-135	763,884.2	615,923.1	215	11.3
	R-143	TO	R-144	884	2,538	2,984	3,459	1,114	148	3,800	4,246	4,721			R-136	763,504.0	616,731.9	205	8.2
REACH 3	R-144	TO	R-145	994	1,959	2,395	2,863	454		2,412	2,849	3,316	66,488	99,731	R-137	763,028.8	617,808.5	205	7.2
	R-145	TO	R-146	1,023	2,259	2,717	3,206	406	370	3,035	3,494	3,982			R-138	762,657.5	618,574.3	210	11.0
	R-146	TO	R-147	1,099	2,838	3,349	3,888	1,514	222	4,575	5,086	5,625			R-139	762,195.4	619,570.3	205	11.5
	R-147	TO	R-148	997	3,401	3,918	4,466	2,947	148	6,497	7,014	7,562			R-140	761,876.4	620,459.9	200	10.3
	R-148	TO	R-149	1,004	3,387	3,911	4,473	4,582	222	8,191	8,715	9,277			R-141	761,514.2	621,369.4	200	8.6
	R-149	TO	R-150	951	2,092	2,537	3,019	1,347		3,438	3,884	4,366			R-142	761,045.7	622,310.7	180	5.1
	R-150	TO	R-151	1,110	2,423	2,933	3,486		148	2,571	3,081	3,634			R-143	760,644.0	623,235.2	200	6.2
	R-151	TO	R-152	824	2,343	2,742	3,171			2,343	2,742	3,171			R-144	760,391.8	624,088.2	205	5.9
	R-152	TO	R-153	1,081	4,071	4,677	5,320	1,817		5,888	6,495	7,137			R-145	760,033.9	625,012.1	200	7.2
	R-153	TO	R-154	1,009	4,850	5,532	6,251	3,497	593	8,939	9,621	10,340			R-146	759,745.1	625,995.9	200	4.3
	R-154	TO	R-155	1,001	5,272	5,967	6,698	934	444	6,650	7,345	8,077			R-147	759,522.5	627,036.6	185	6.2
REACH 4	R-155	TO	R-156	998	4,428	5,033	5,689	706		5,134	5,739	6,395	80,080	120,120	R-148	759,255.7	628,014.9	190	4.8
	R-156	TO	R-157	986	4,852	5,491	6,181	3,500	296	8,648	9,287	9,978			R-149	759,272.0	629,013.3	185	6.6
	R-157	TO	R-158	985	4,474	5,112	5,796	991	1,111	6,575	7,214	7,898			R-150	759,215.1	629,957.1	185	6.4
	R-158	TO	R-159	1,044	2,604	3,161	3,785		1,444	4,049	4,605	5,230			R-151	759,284.6	631,062.3	185	7.5
	R-159	TO	R-160	883	2,771	3,248	3,767			2,771	3,248	3,767			R-152	759,324.0	631,875.4	185	5.4
	R-160	TO	R-161	1,037	4,188	4,798	5,447	167	778	5,132	5,743	6,391			R-153	759,647.8	632,980.4	195	3.8
	R-161	TO	R-161A	948	3,590	4,150	4,748	825	296	4,711	5,271	5,870			R-154	759,924.5	633,868.6	170	3.7
	R-161A	TO	R-162	802	2,916	3,380	3,870	3,088	74	6,078	6,542	7,032			R-155	760,244.5	634,782.5	160	3.2
	R-162	TO	R-163	1,129	3,380	4,011	4,691	1,309	1,704	6,392	7,023	7,703			R-156	760,671.6	635,688.4	160	5.1
	R-163	TO	R-164	759	2,723	3,199	3,720			2,723	3,199	3,720			R-157	761,047.5	636,594.8	160	4.5
	R-164	TO	R-165	1,315	5,821	6,712	7,733	385	444	6,651	7,542	8,563			R-158	761,473.8	637,465.2	155	4.0
	R-165	TO	R-166	1,000	3,091	3,587	4,163	49		3,140	3,636	4,212			R-159	761,864.9	638,429.5	155	4.8
R-166	TO	R-167	925	2,147	2,479	2,834	488		2,636	2,968	3,322	R-160	762,316.2	639,180.3	145	4.8			
REACH 5	R-167	TO	R-168	999	2,434	2,815	3,219	182		2,616	2,997	3,400	23,635	35,453	R-161	762,862.4	6404		
















HUMISTON & MOORE ENGINEERS
COASTAL
ENGINEERING DESIGN
AND PERMITTING

SANIBEL ISLAND POST-STORM EMERGENCY BERM
BEACH RECOVERY PROJECT – PLAN VIEW

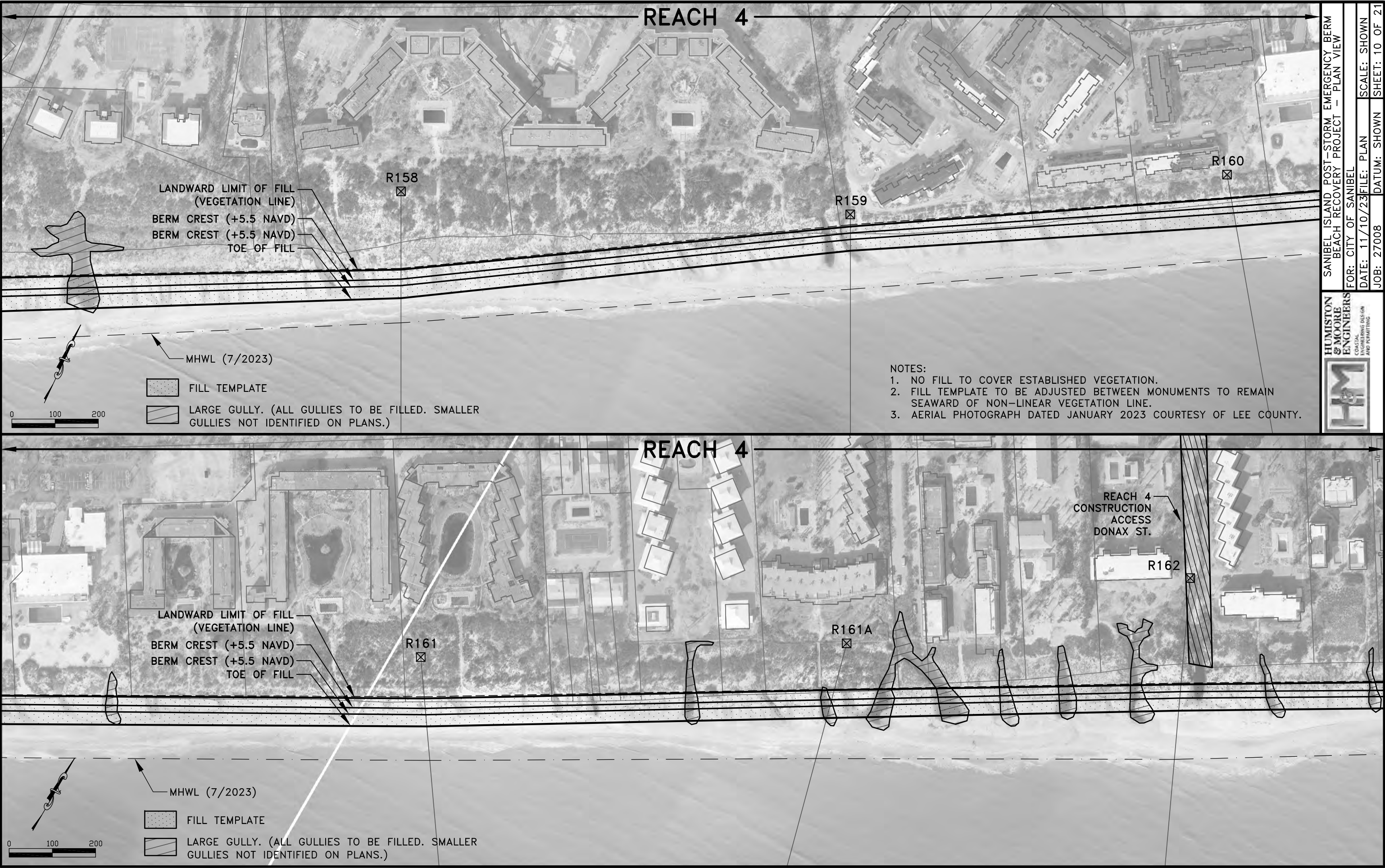
FOR: CITY OF SANIBEL

DATE: 11/10/23 FILE: PLAN

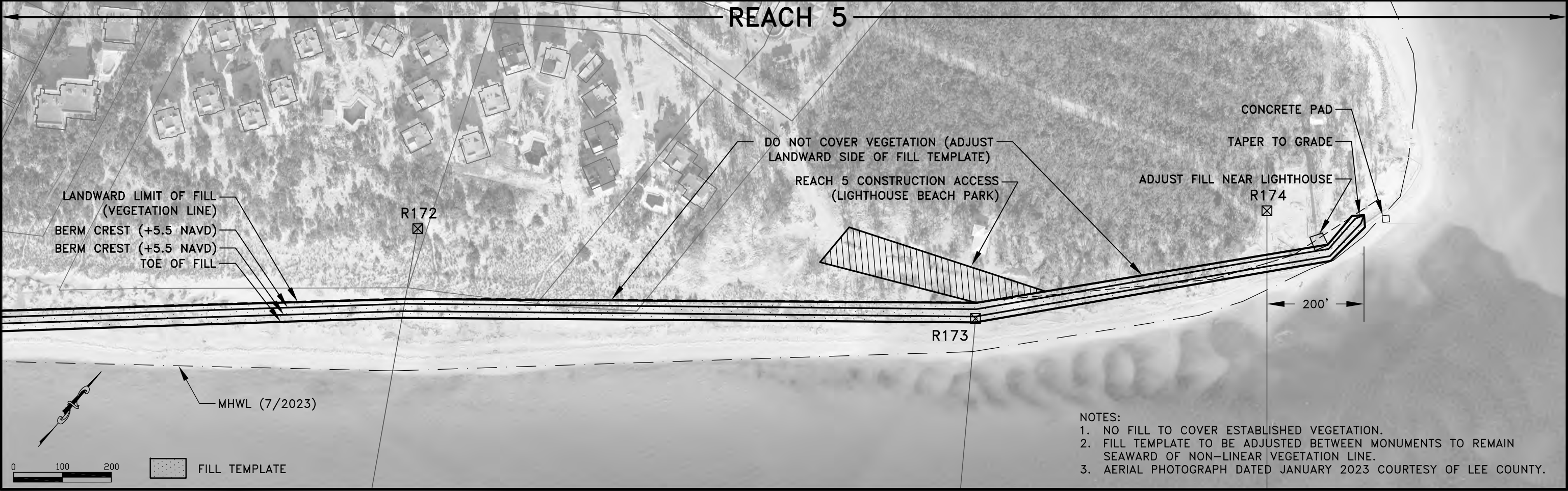
JOB: 27008

SCALE: SHOWN

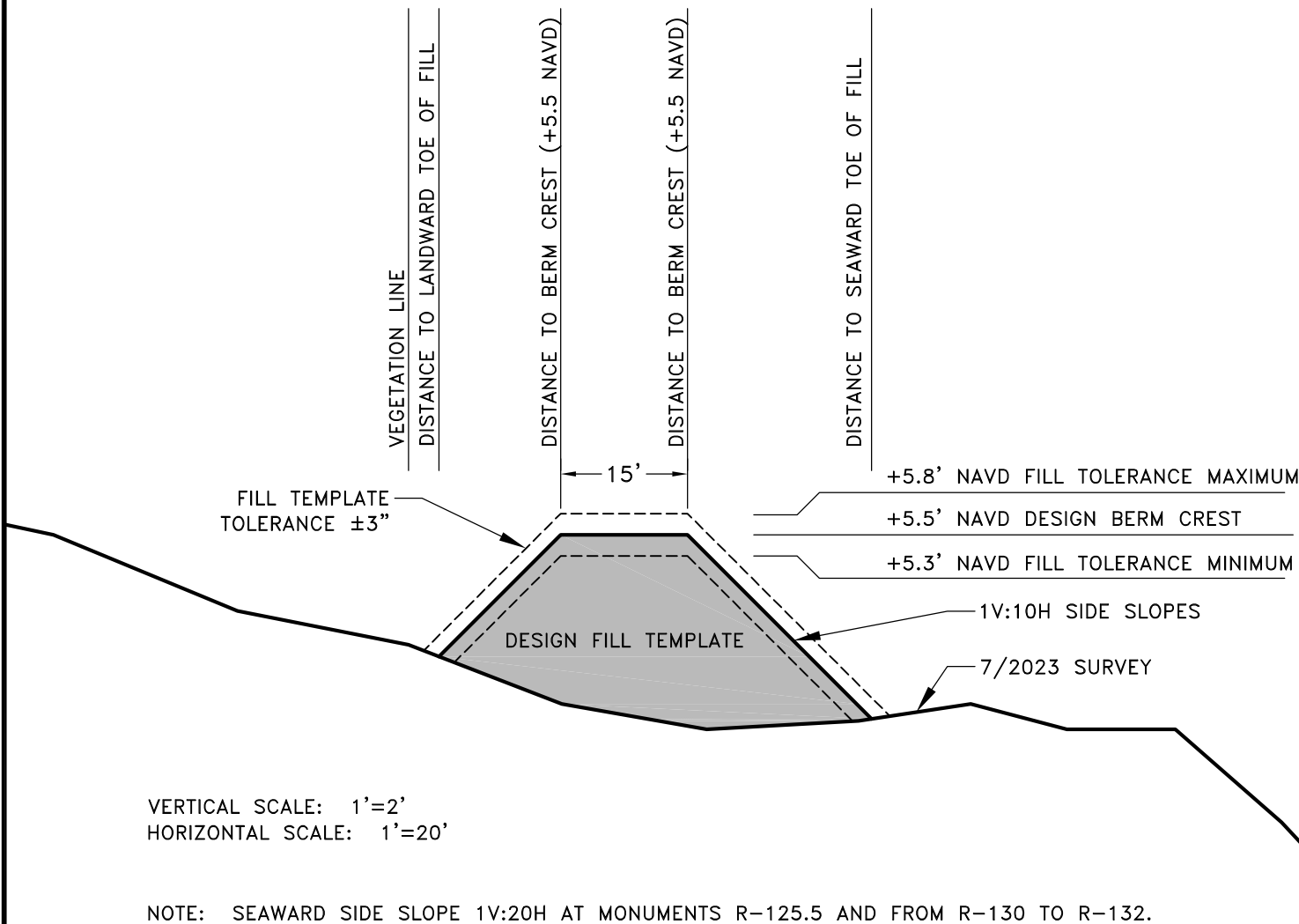
SHEET: 9 OF 21



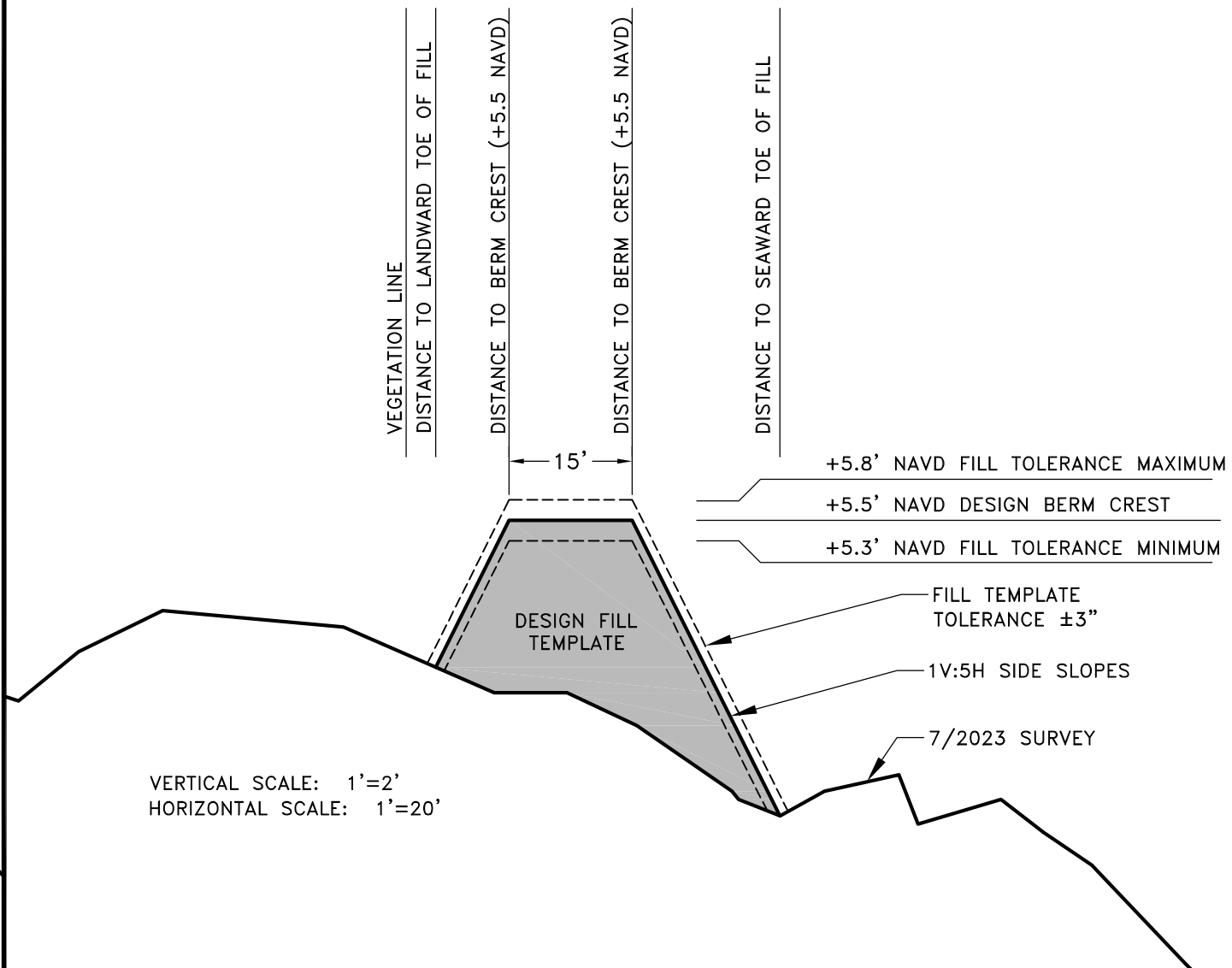




TYPICAL BEACH PROFILE R-123.5 TO R-165



TYPICAL BEACH PROFILE R-165 TO R-174



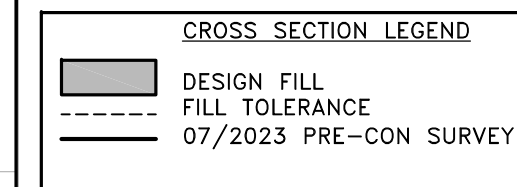
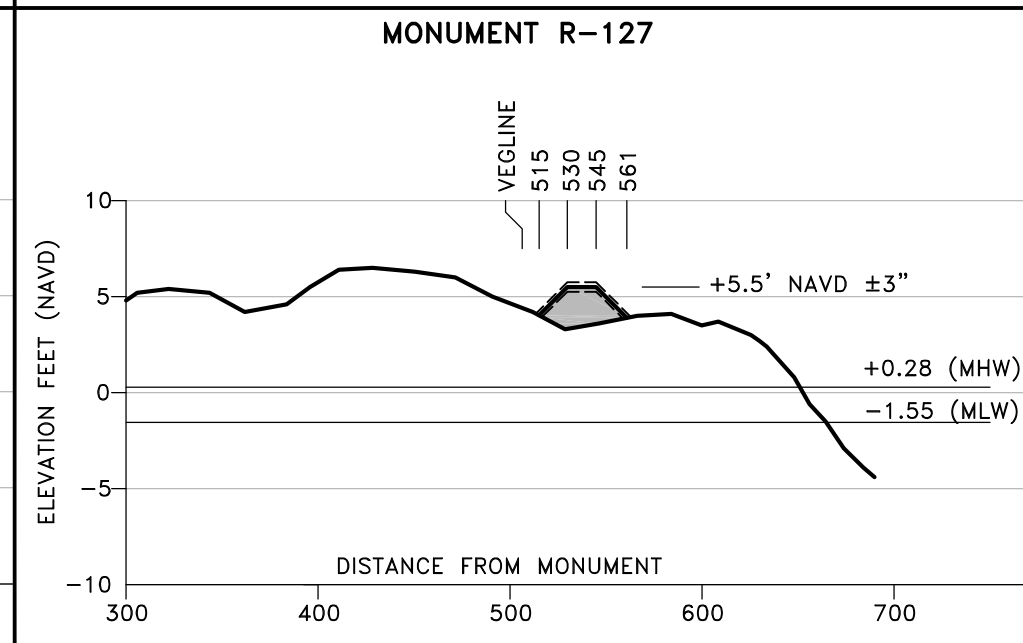
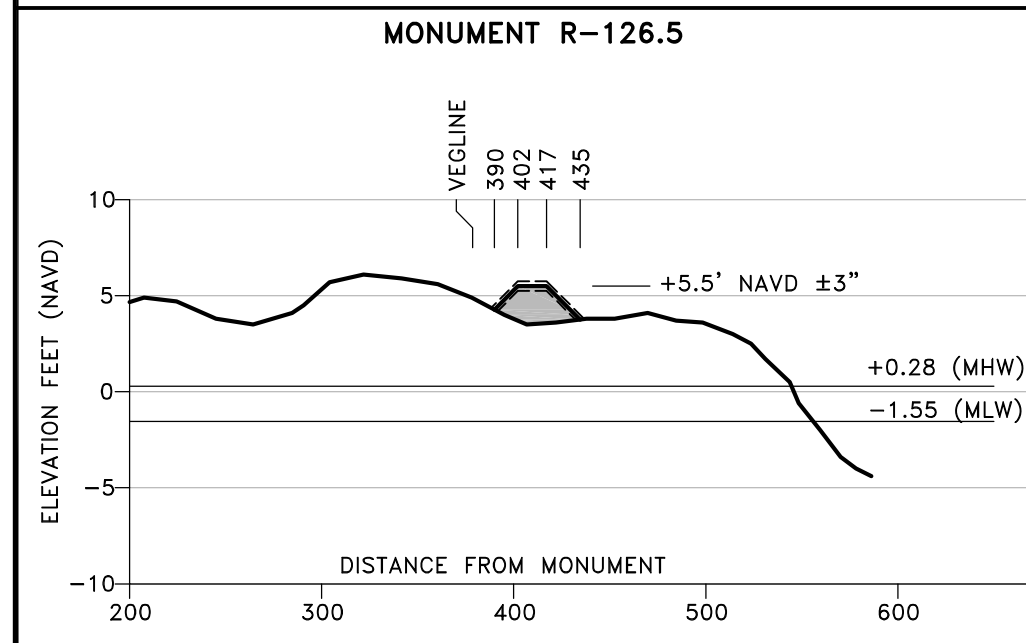
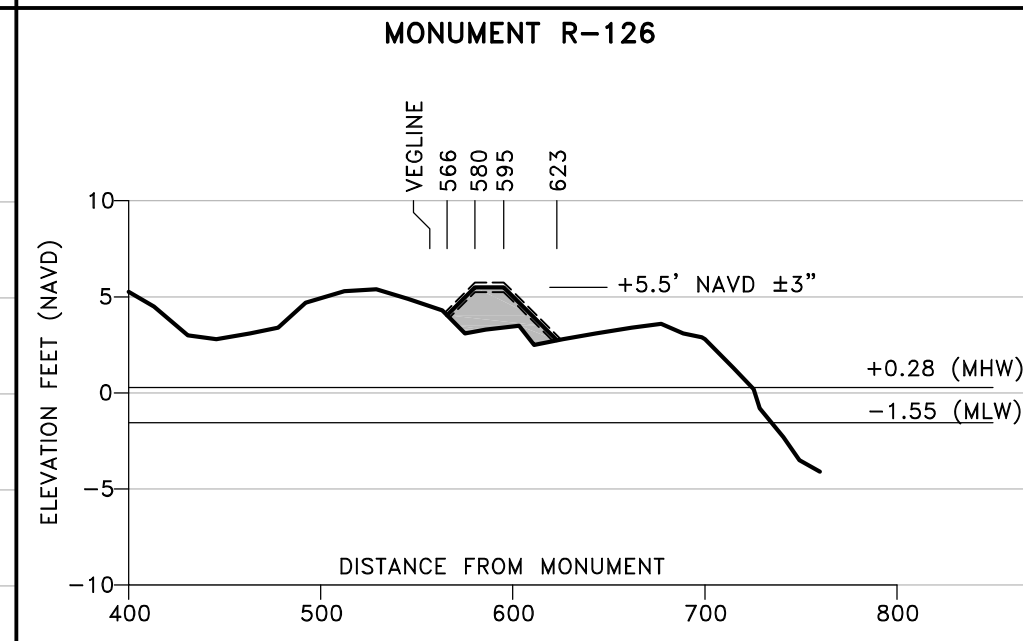
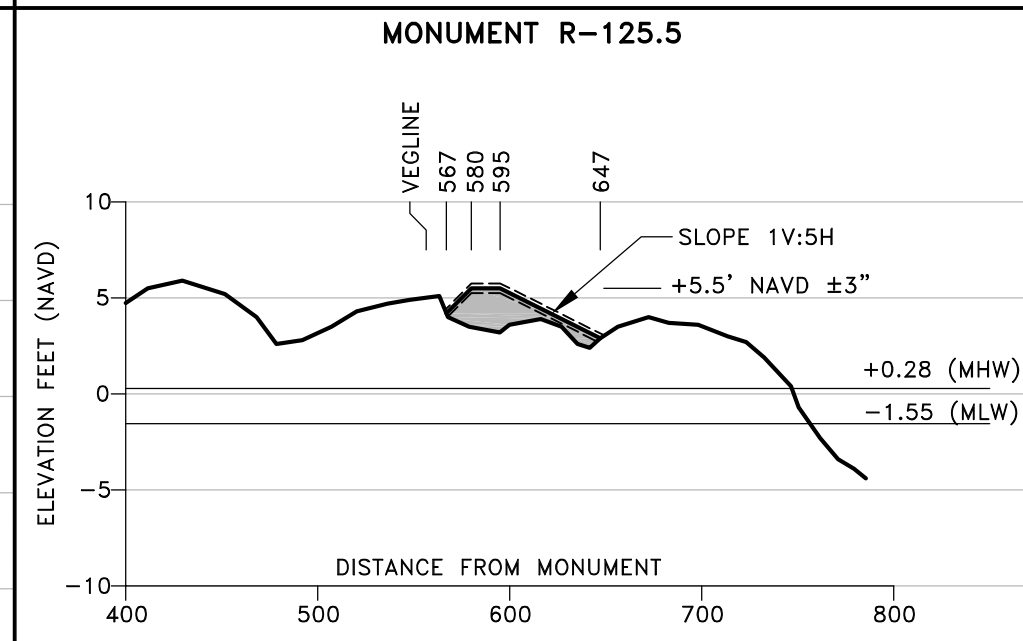
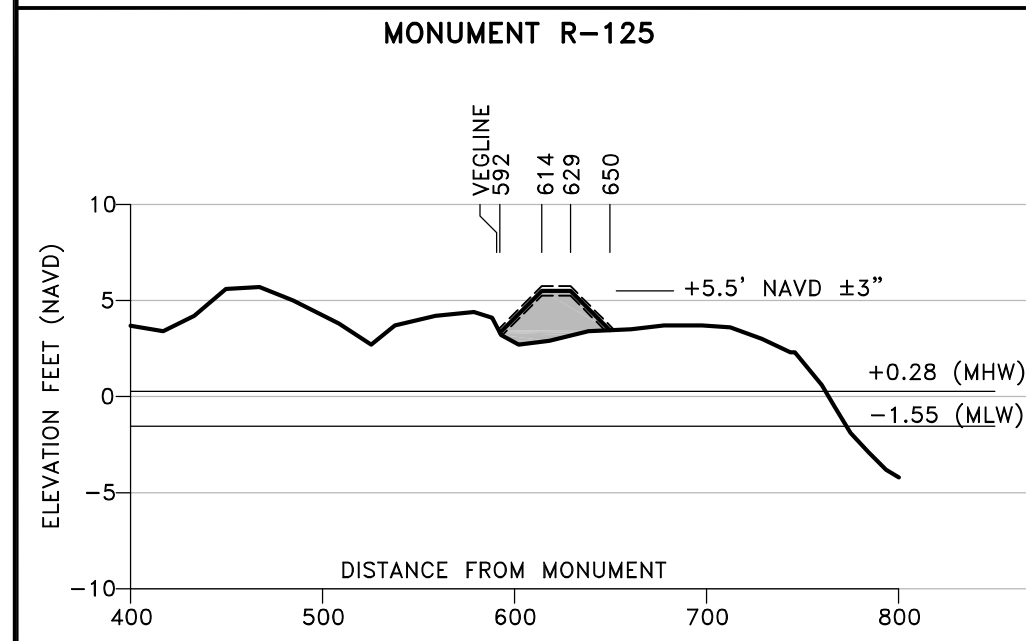
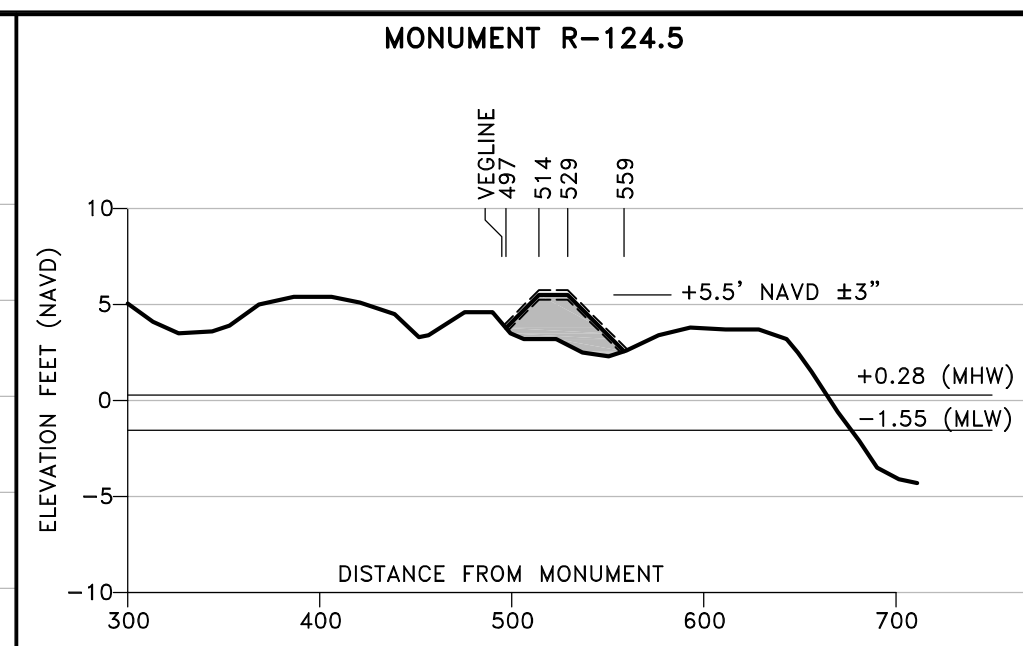
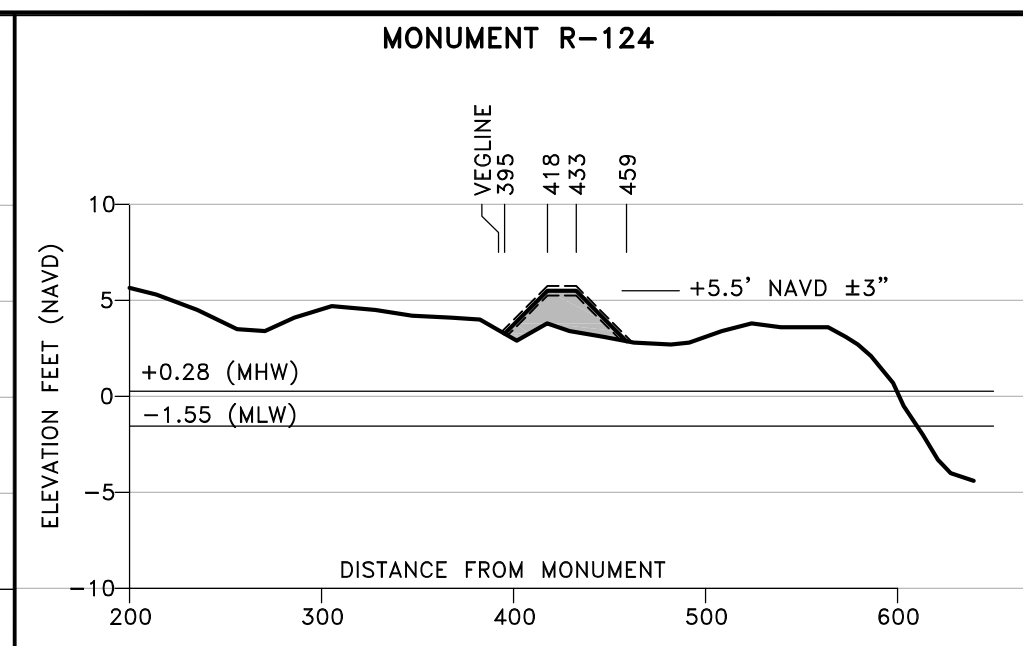
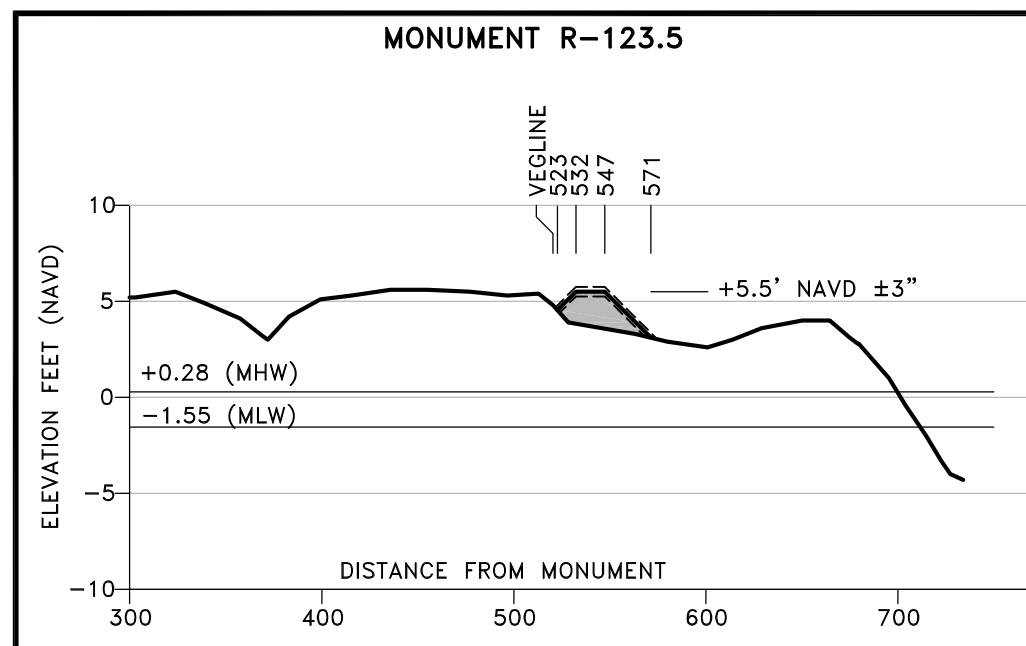
CROSS SECTION LEGEND

- DESIGN FILL
- FILL TOLERANCE
- 07/2023 PRE-CON SURVEY

- NOTES:
- RANGES AND ELEVATIONS REFER TO THE DESIGN TEMPLATE. FILL TEMPLATE TOLERANCE OF $\pm 3''$ SHOWN FOR REFERENCE ONLY.
 - NO FILL TO BE PLACED ON ESTABLISHED VEGETATION. LANDWARD FILL TEMPLATE SLOPE TO BE ADJUSTED BETWEEN MONUMENTS TO REMAIN SEAWARD OF NON-LINEAR VEGETATION LINE.
 - PRE-CONSTRUCTION BEACH PROFILE BASED ON SURVEY BY SDI DATED 7/2023.
 - SIDE SLOPES MAY VARY BASED ON CONDITIONS AT THE TIME OF CONSTRUCTION.

SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT - TYPICAL SECTIONS		
FOR: CITY OF SANIBEL		
DATE: 11/10/23	FILE: SECTION	SCALE: SHOWN
JOB: 27008	DATUM: SHOWN	SHEET: 13 OF 21

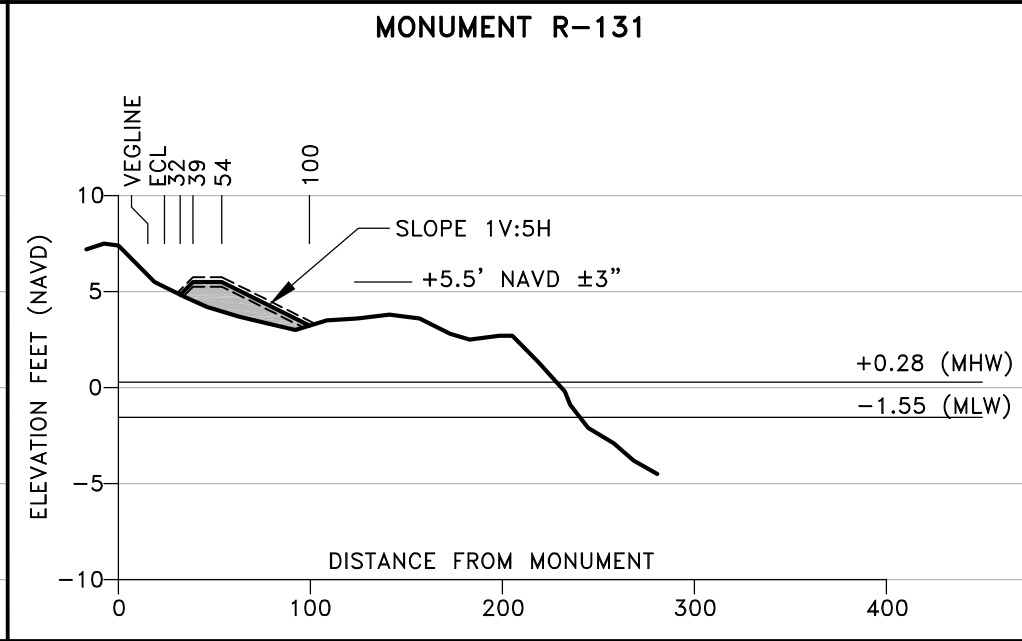
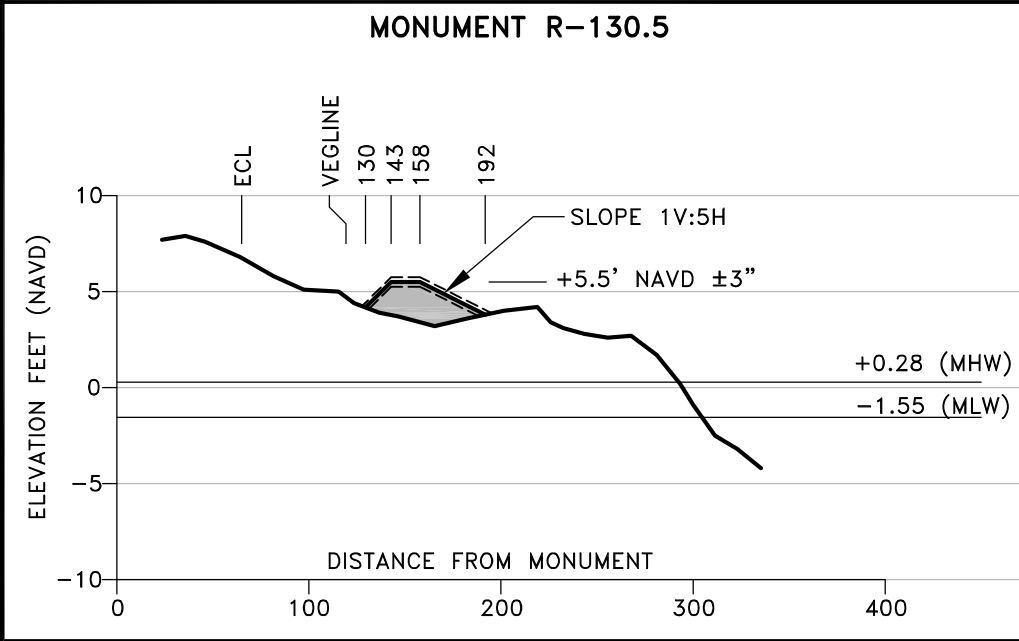
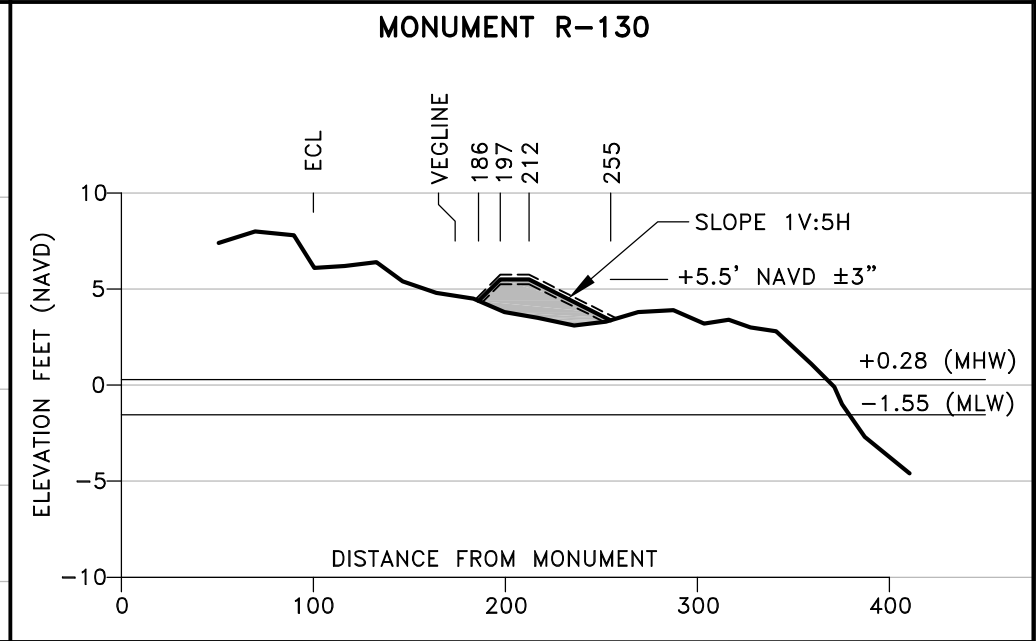
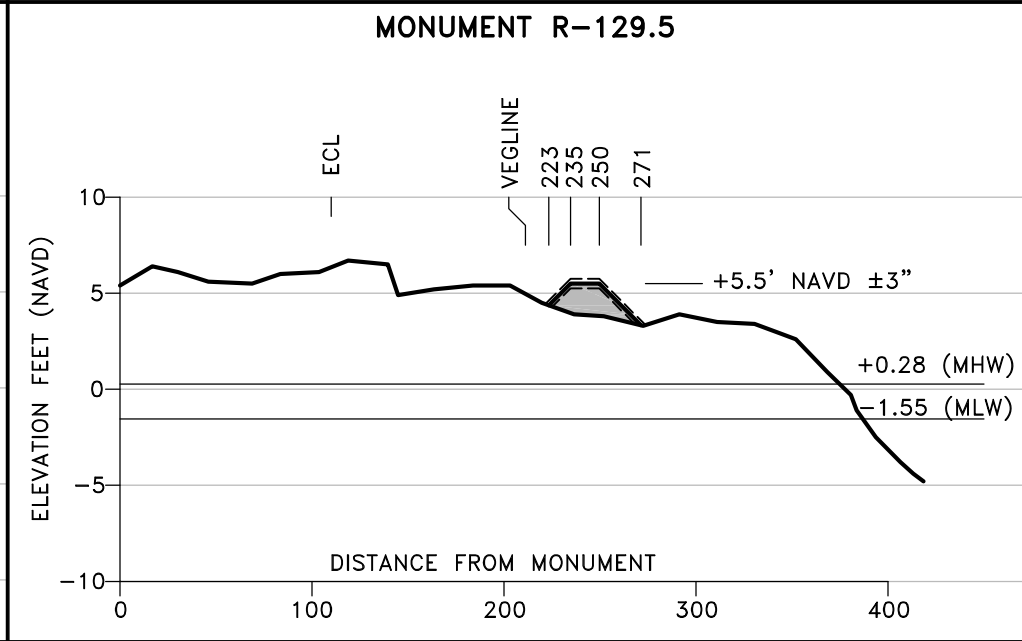
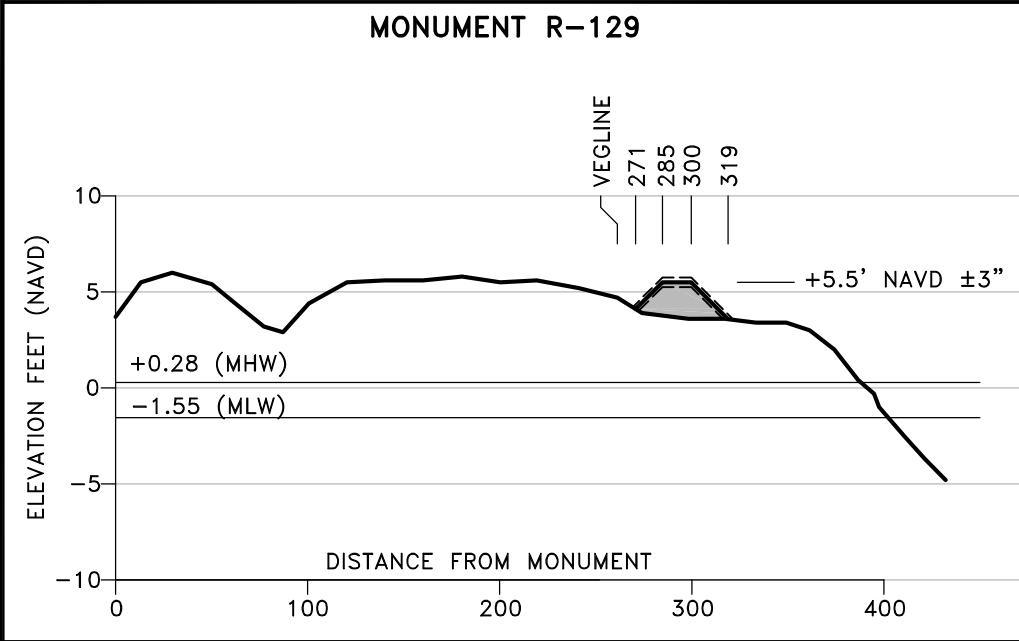
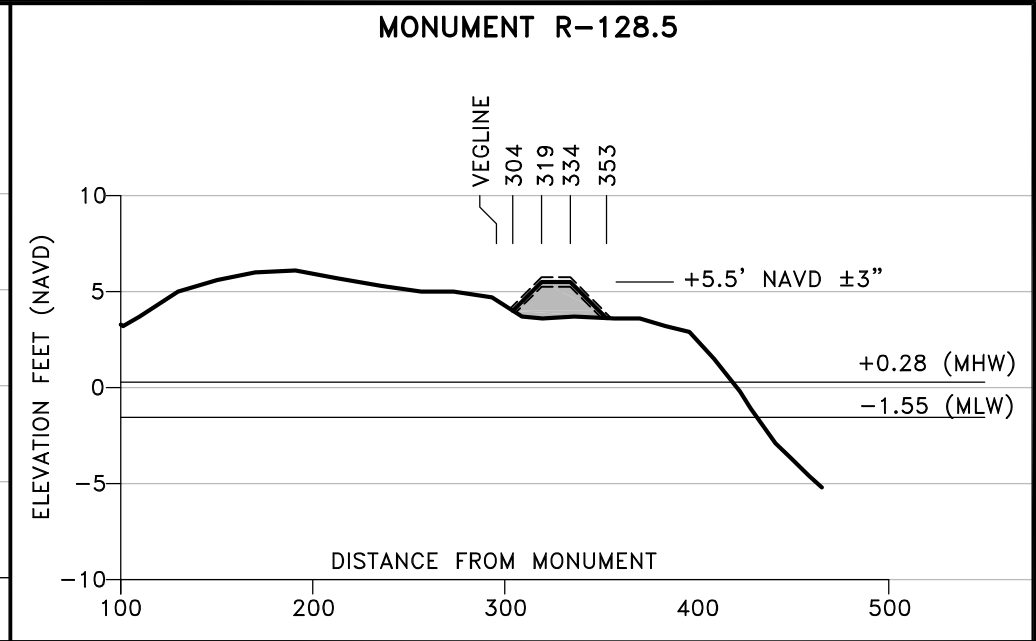
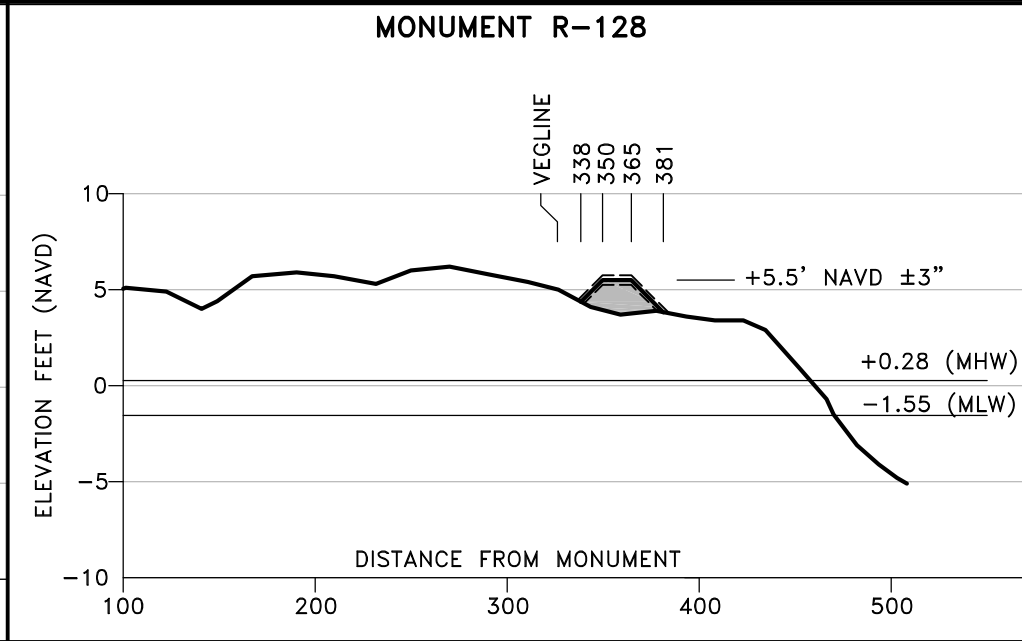
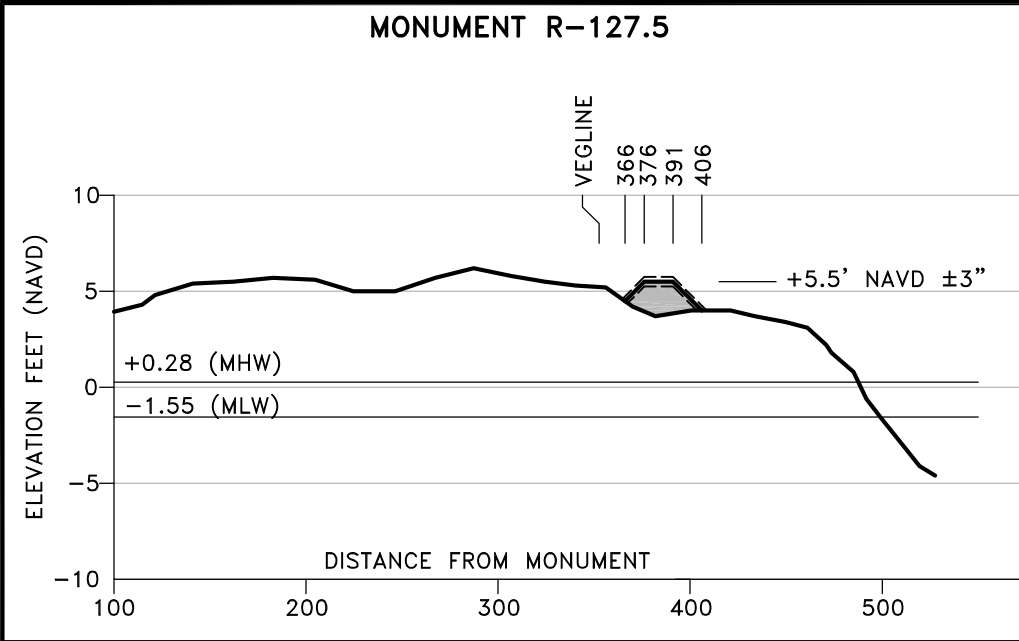




- NOTES:
1. RANGES AND ELEVATIONS REFER TO THE DESIGN TEMPLATE. TEMPLATE TOLERANCE OF $\pm 3"$ SHOWN FOR REFERENCE ONLY.
 2. NO FILL TO BE PLACED ON ESTABLISHED VEGETATION.
 3. PRE-CONSTRUCTION BEACH PROFILE BASED ON SURVEY BY SDI DATED 7/2023.

SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT - CROSS SECTIONS		
FOR: CITY OF SANIBEL		
DATE: 11/10/23	FILE: SECTION	SCALE: SHOWN
JOB: 27008	DATUM: SHOWN	SHEET: 14 OF 2





CROSS SECTION LEGEND

- DESIGN FILL
- FILL TOLERANCE
- 07/2023 PRE-CON SURVEY

NOTES:

- RANGES AND ELEVATIONS REFER TO THE DESIGN TEMPLATE. TEMPLATE TOLERANCE OF ±3" SHOWN FOR REFERENCE ONLY.
- NO FILL TO BE PLACED ON ESTABLISHED VEGETATION.
- PRE-CONSTRUCTION BEACH PROFILE BASED ON SURVEY BY SDI DATED 7/2023.

SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT – CROSS SECTIONS

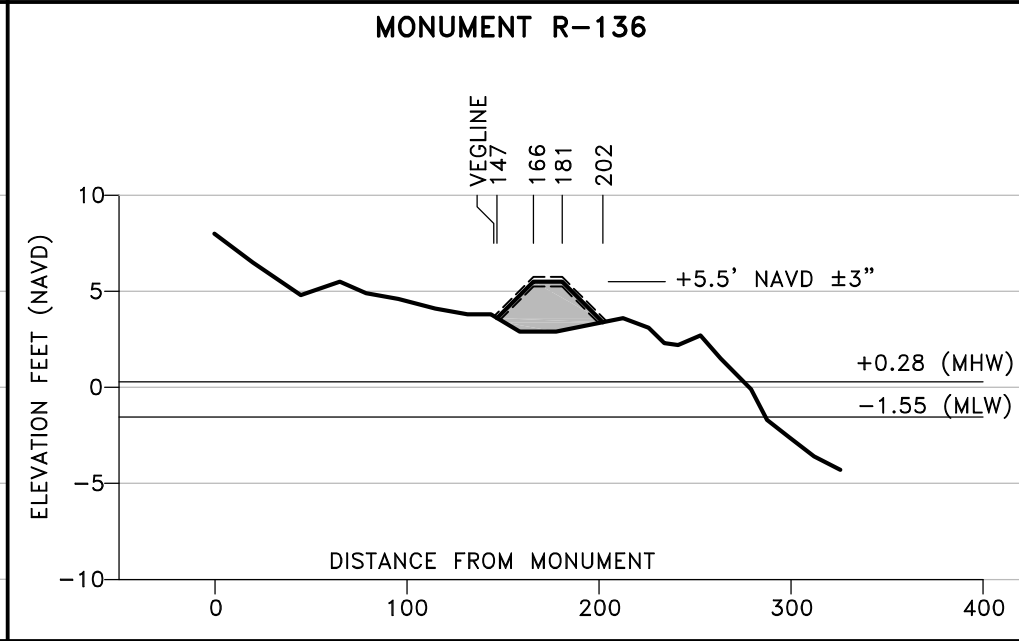
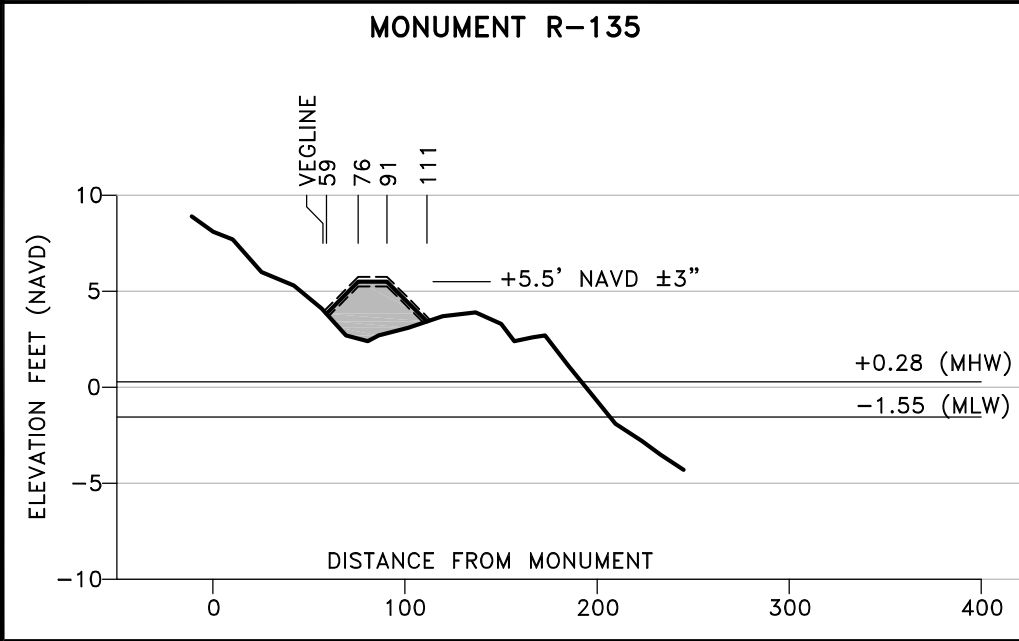
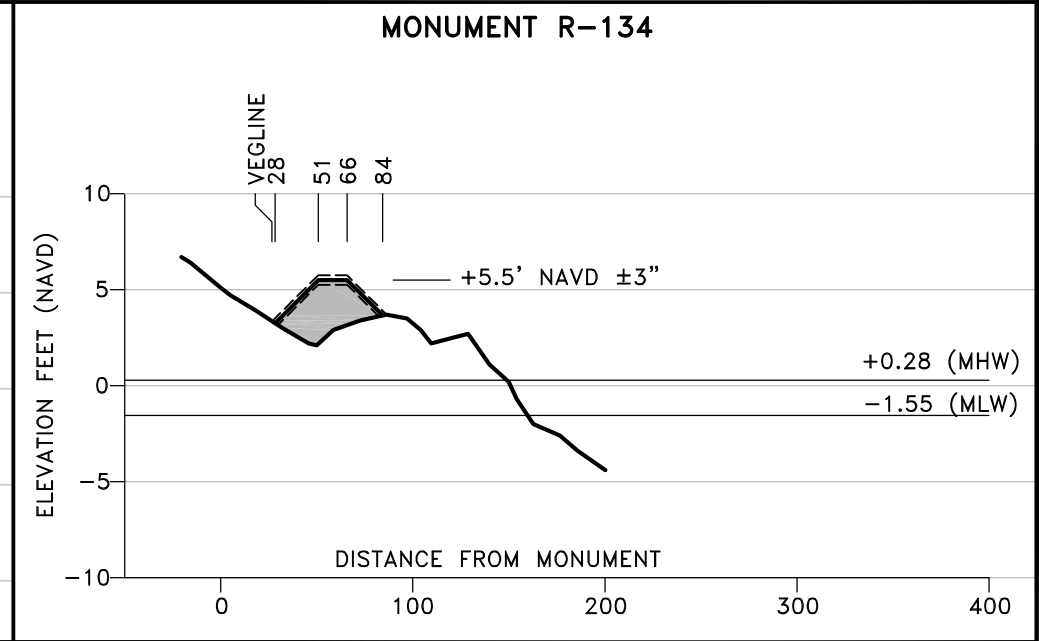
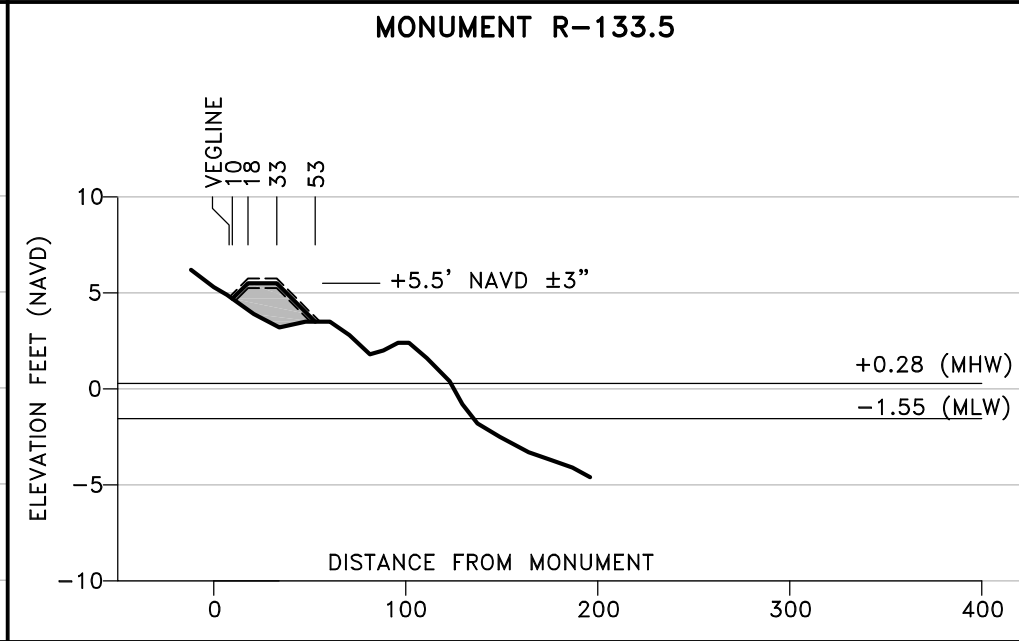
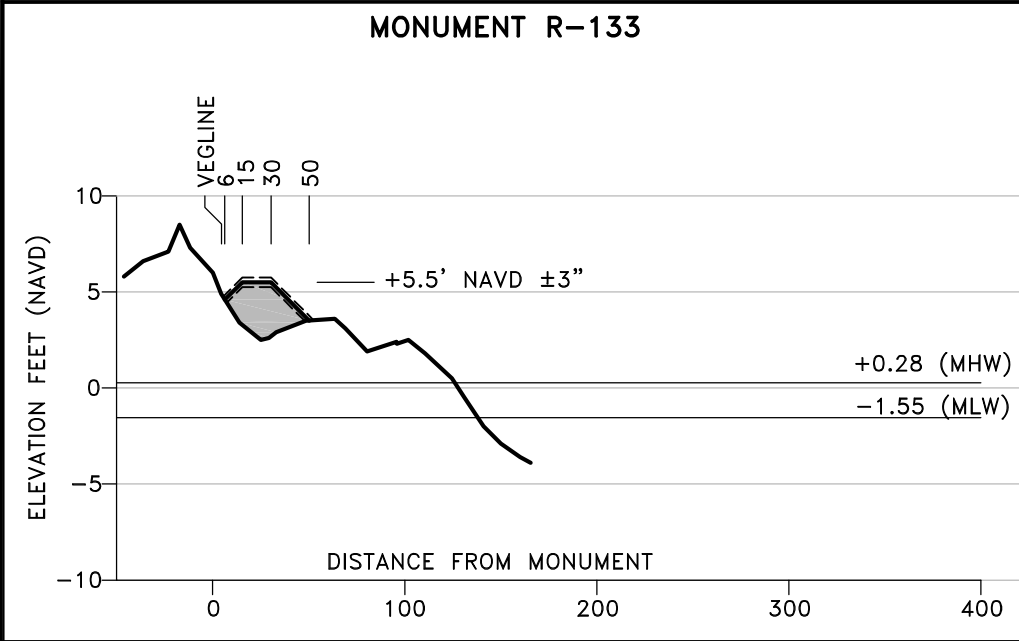
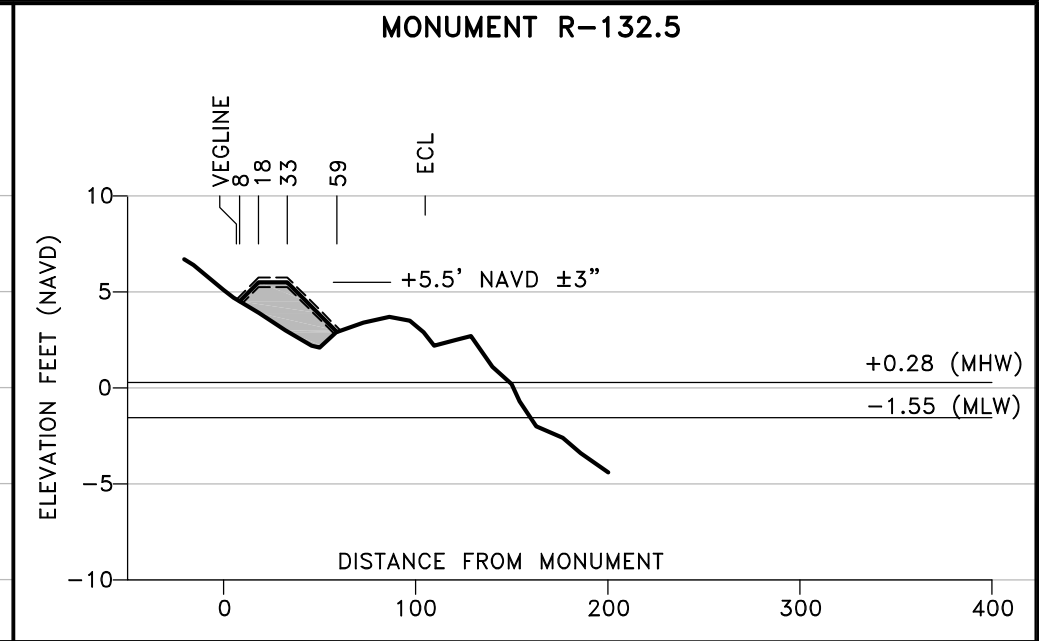
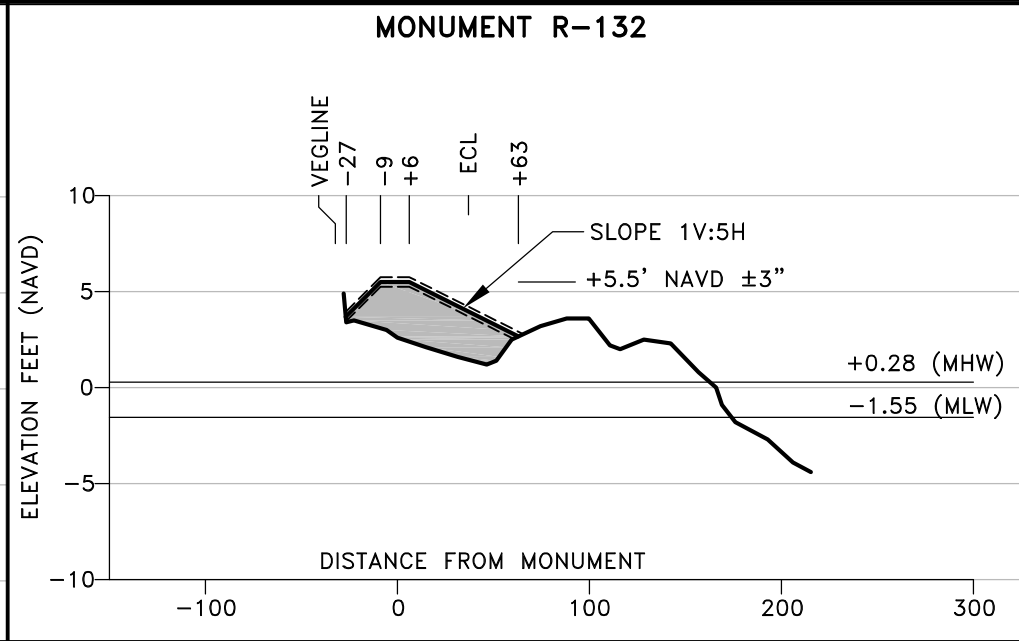
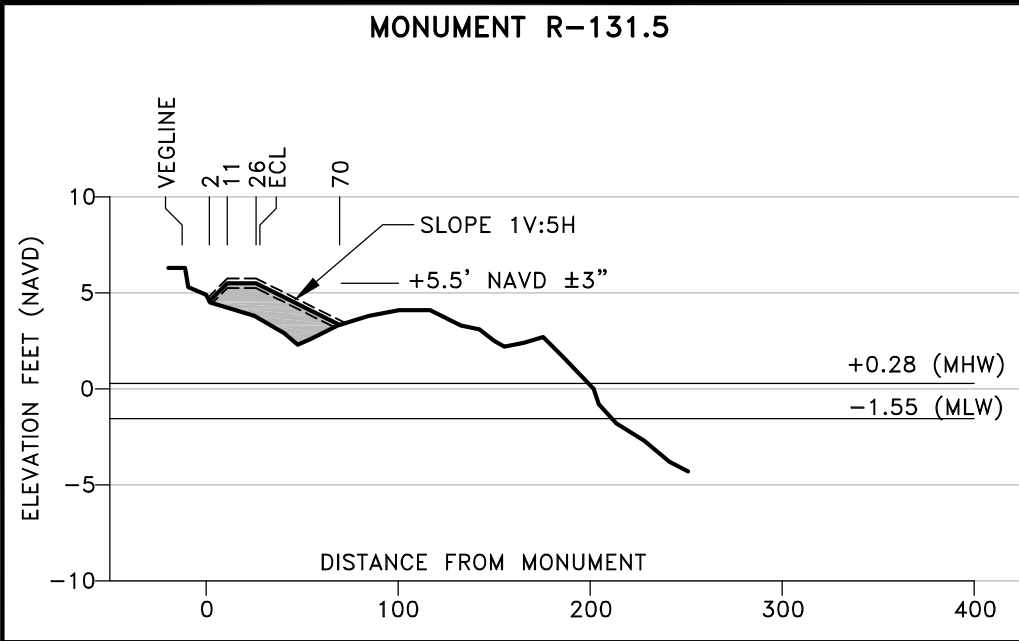
FOR: CITY OF SANIBEL

DATE: 11/10/23 FILE: SECTION SCALE: SHOWN

JOB: 27008 DATUM: SHOWN SHEET: 15 OF 21

HUMISTON & MOORE ENGINEERS

COASTAL ENGINEERING DESIGN AND PERMITTING



CROSS SECTION LEGEND

- DESIGN FILL
- FILL TOLERANCE
- 07/2023 PRE-CON SURVEY

NOTES:

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SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT – CROSS SECTIONS

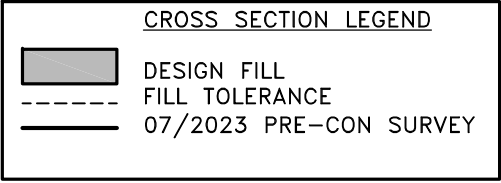
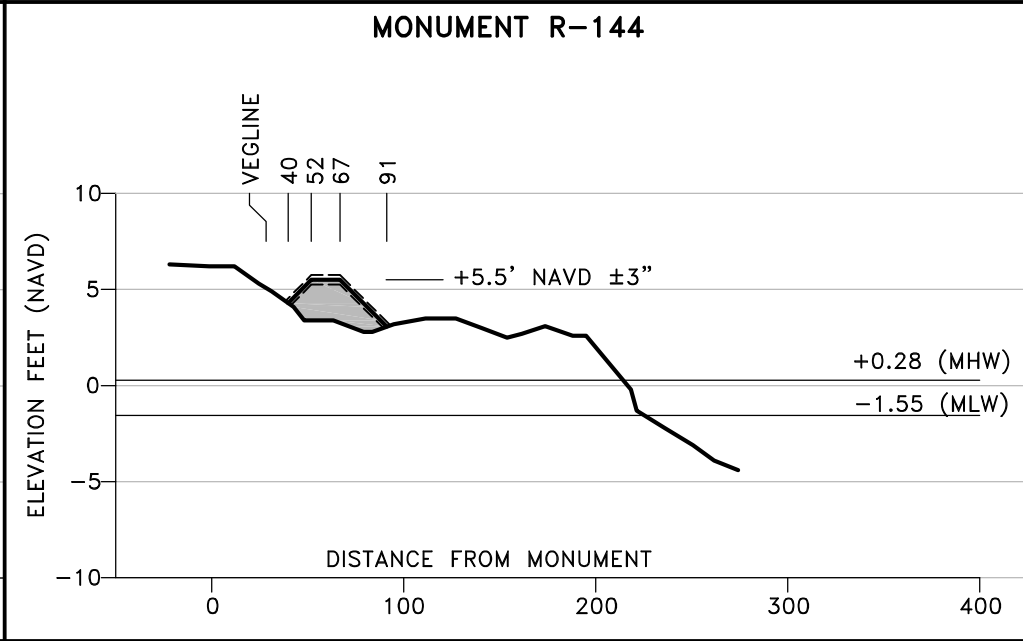
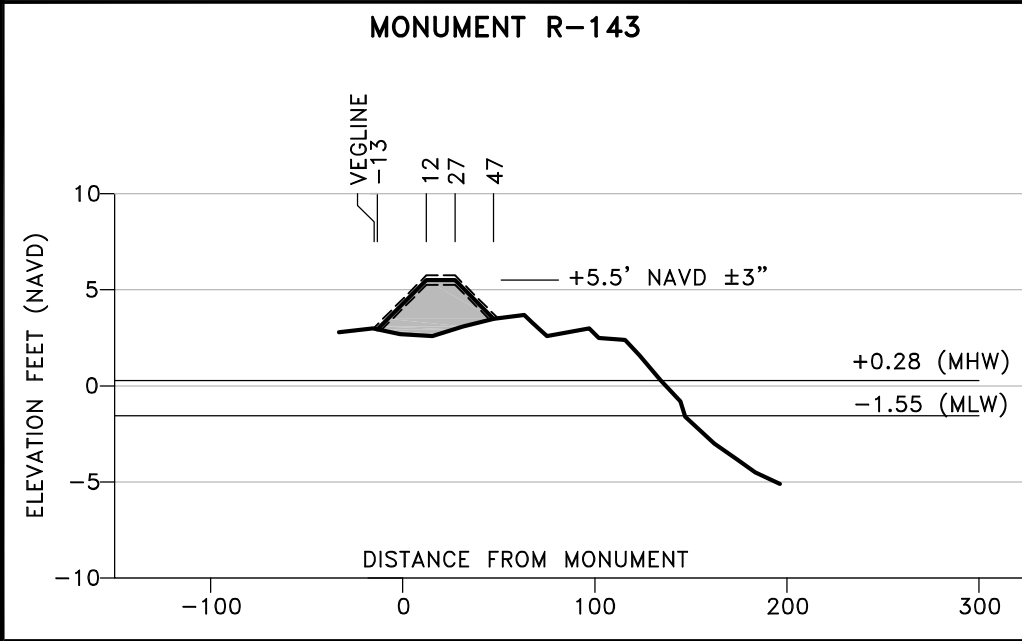
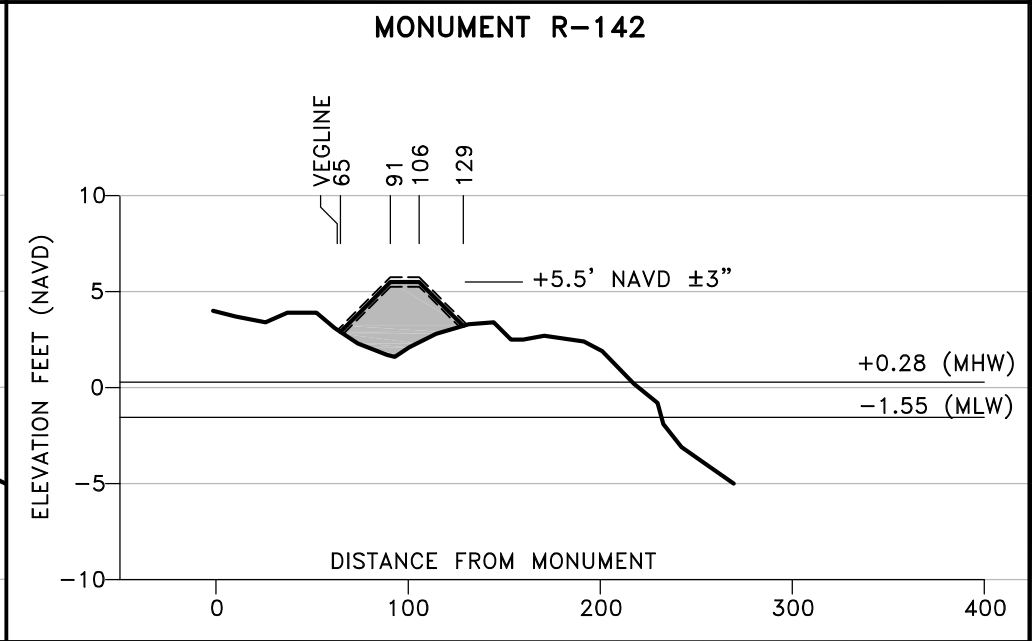
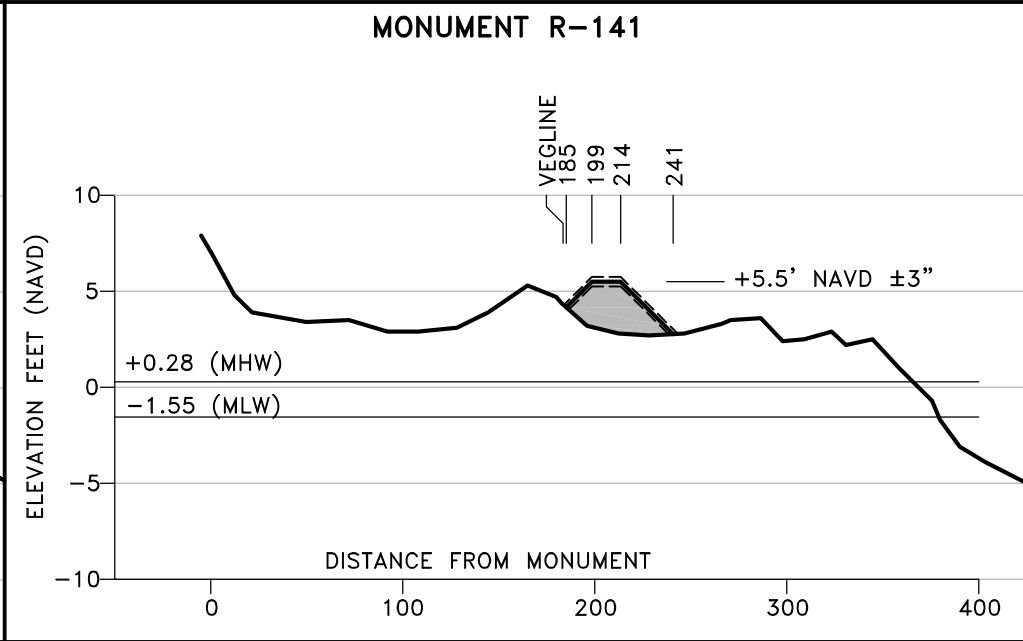
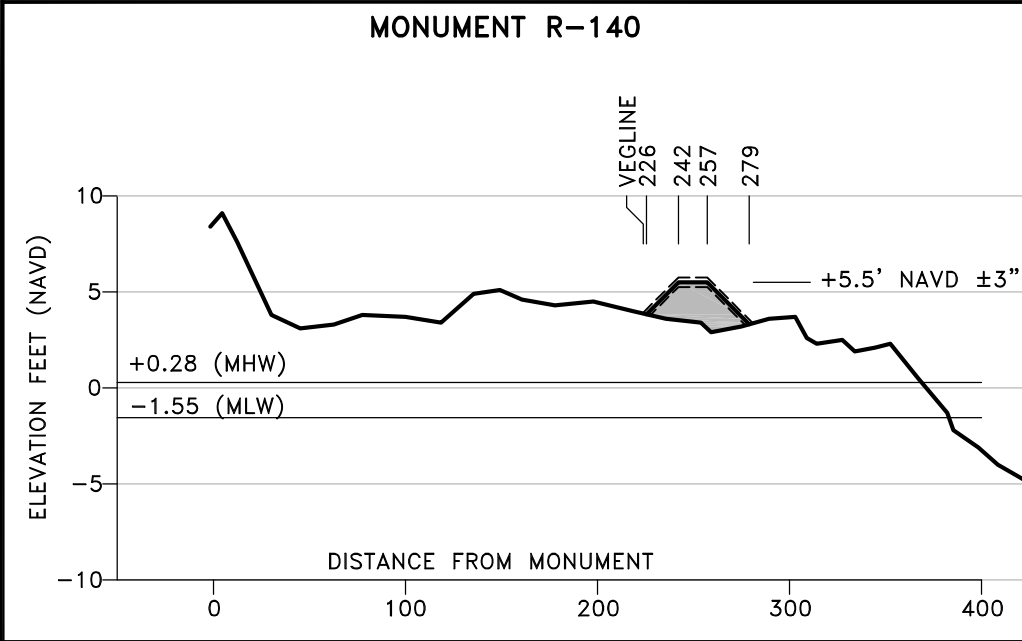
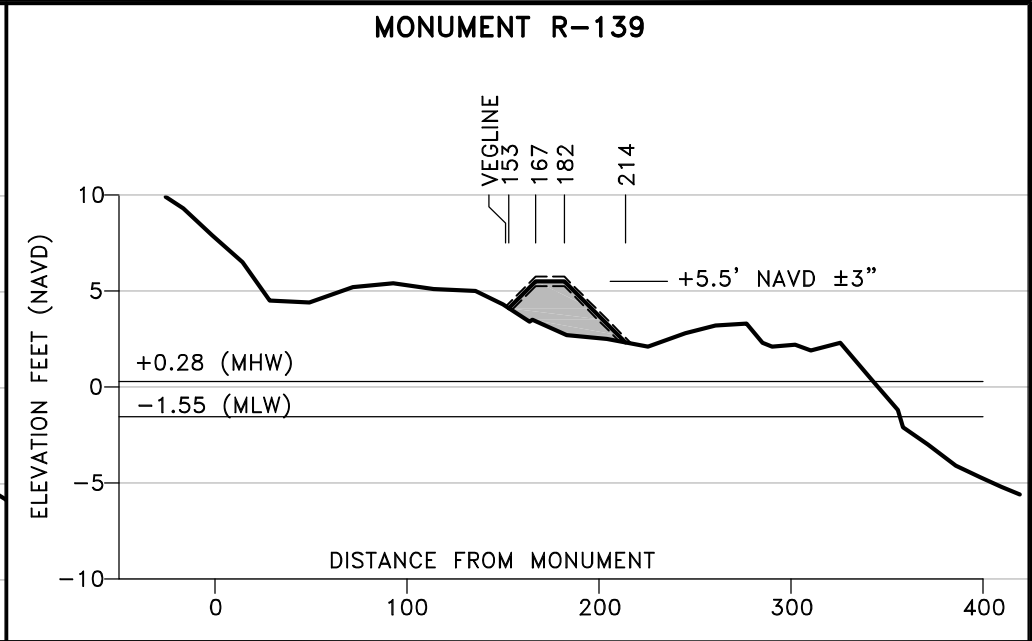
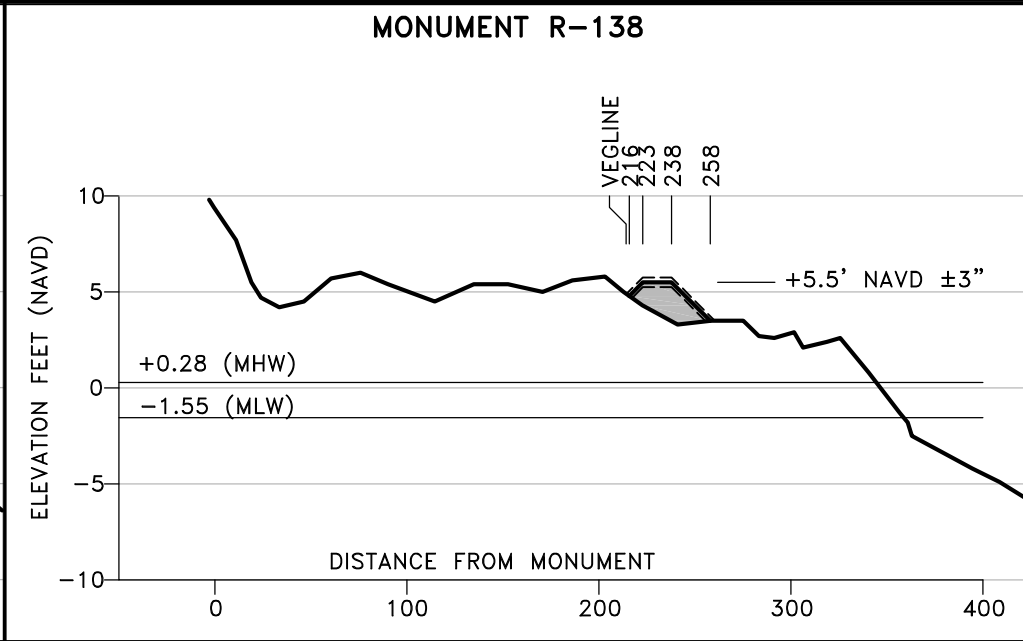
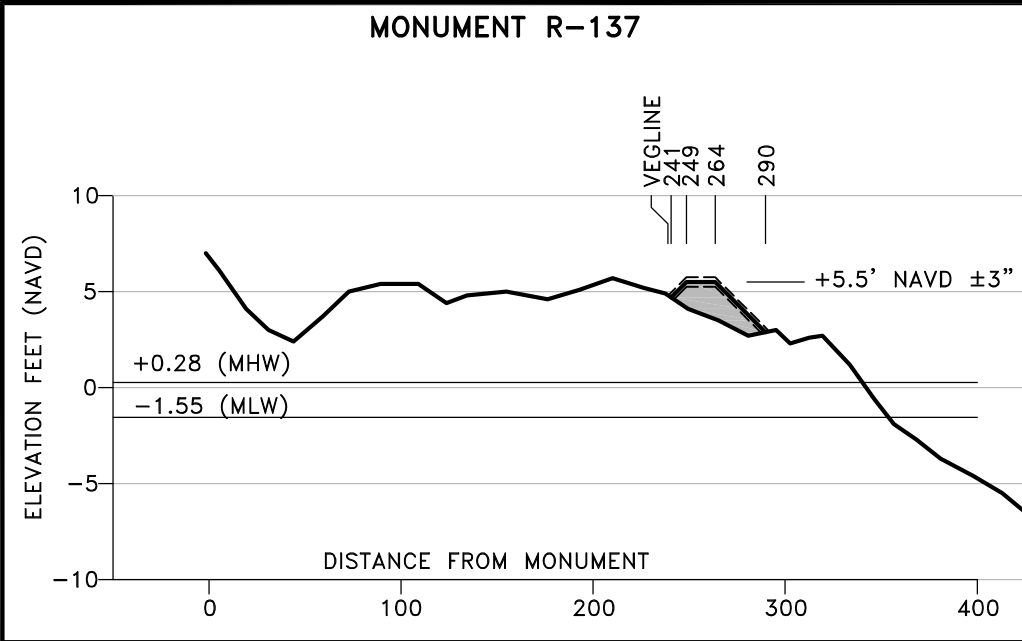
FOR: CITY OF SANIBEL

DATE: 11/10/23 FILE: SECTION SCALE: SHOWN

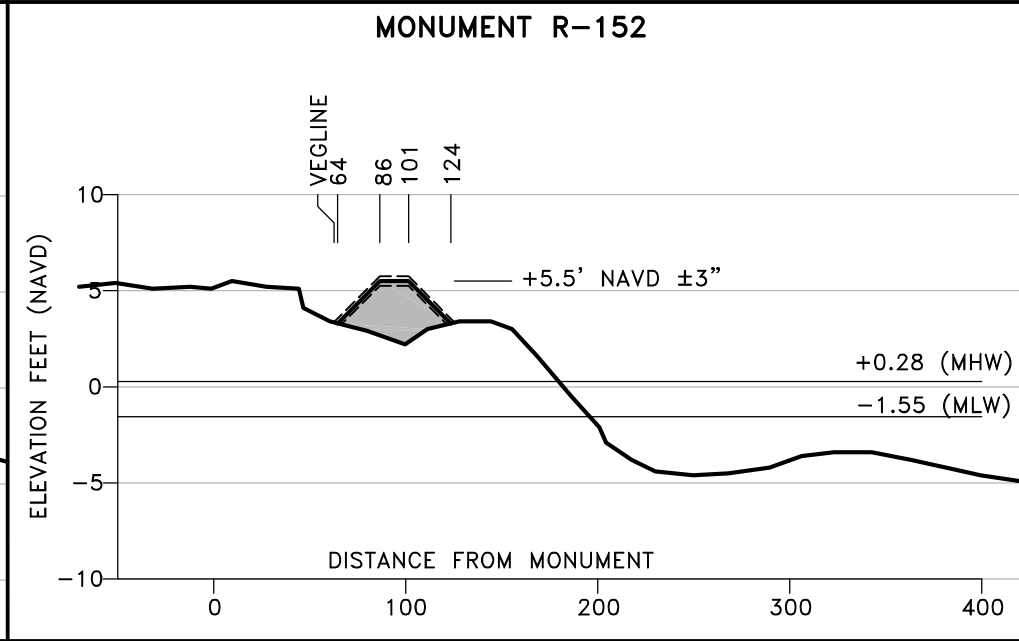
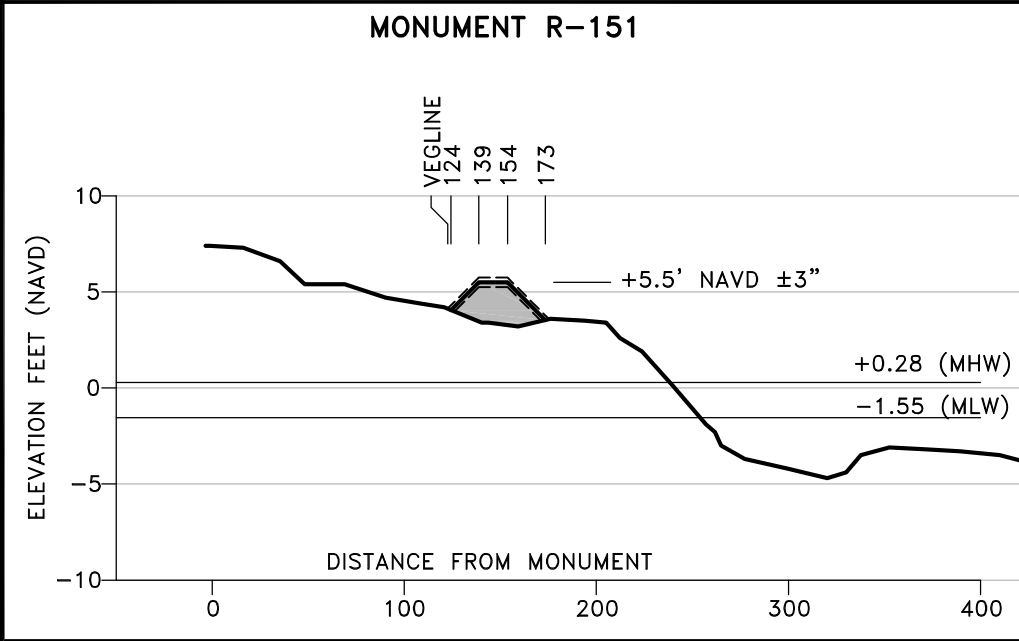
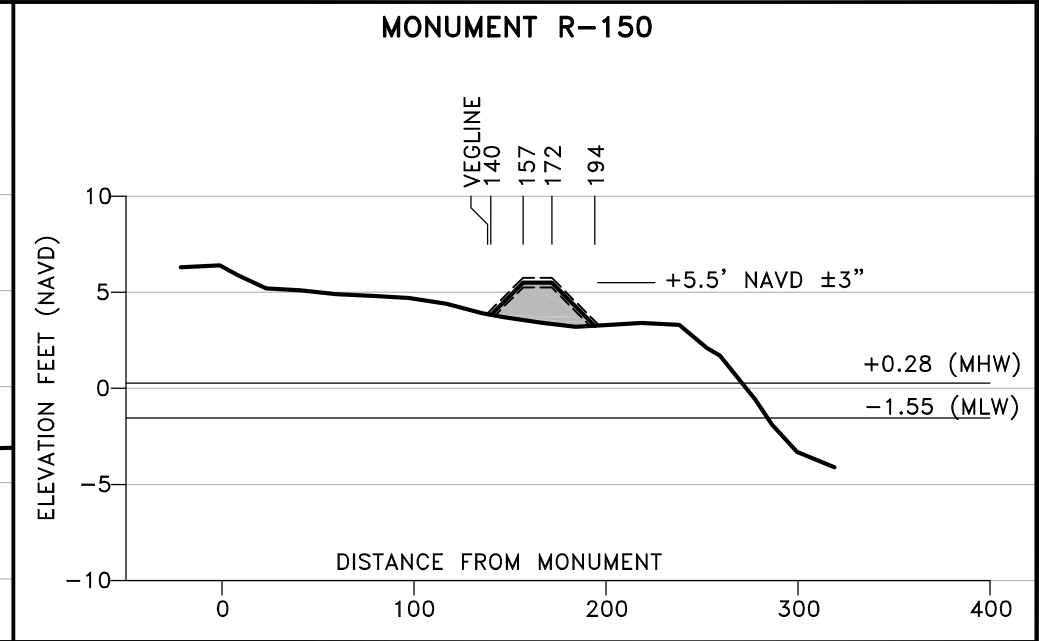
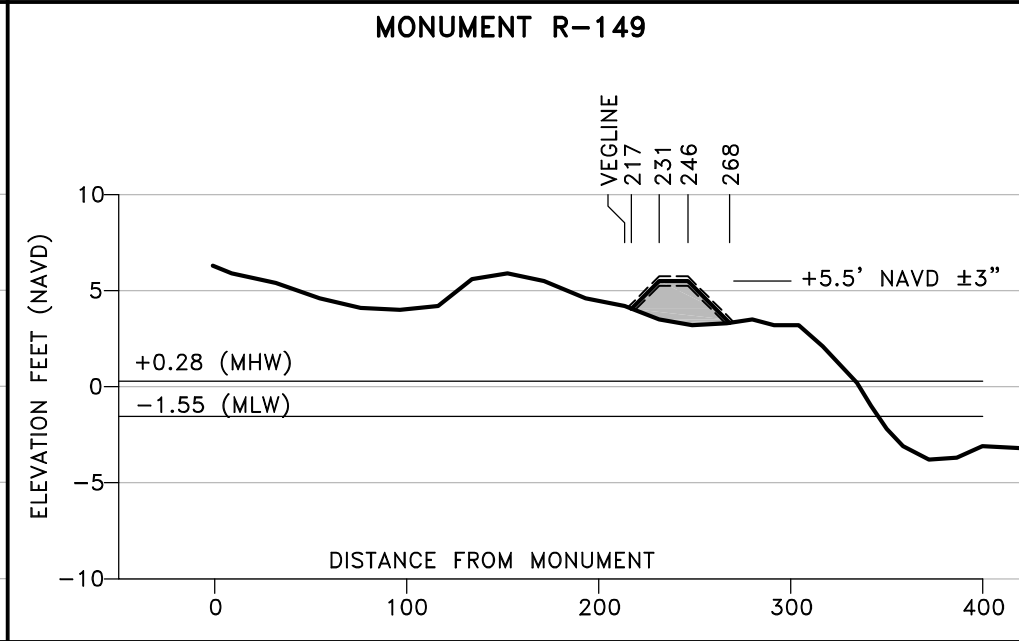
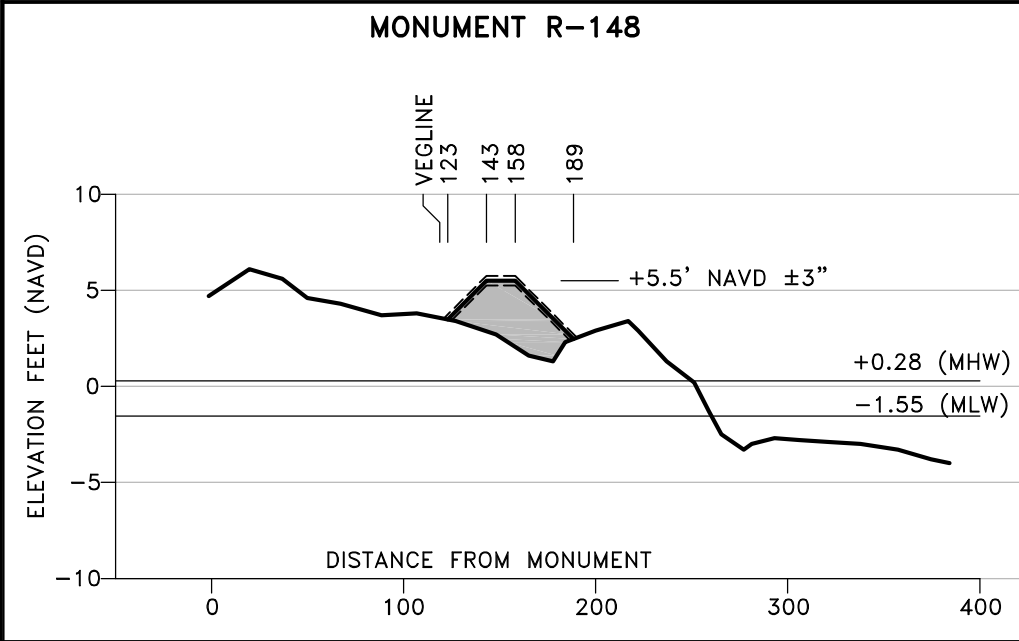
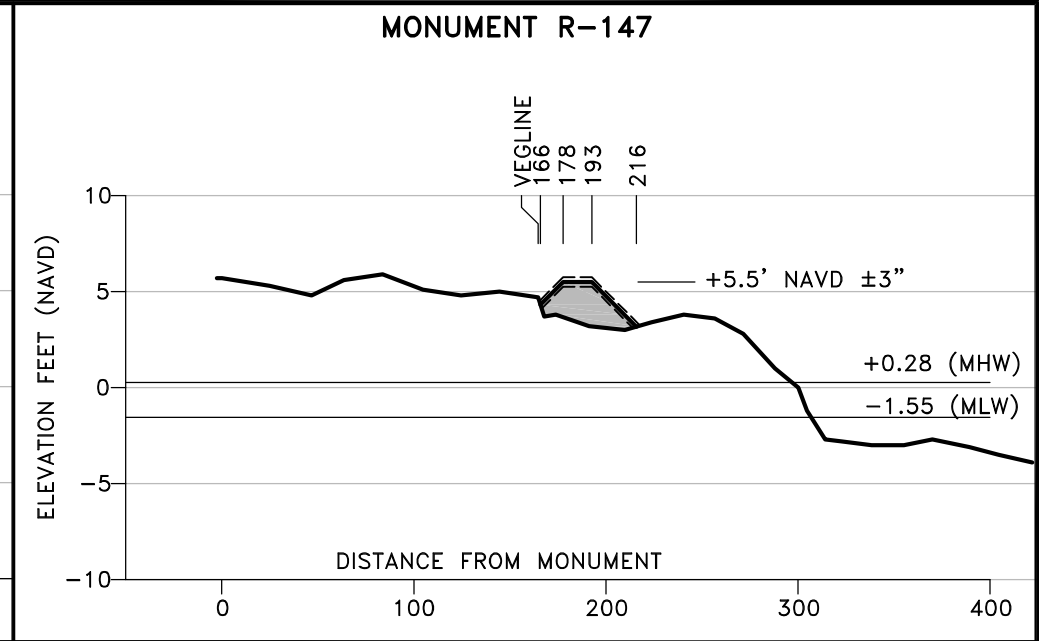
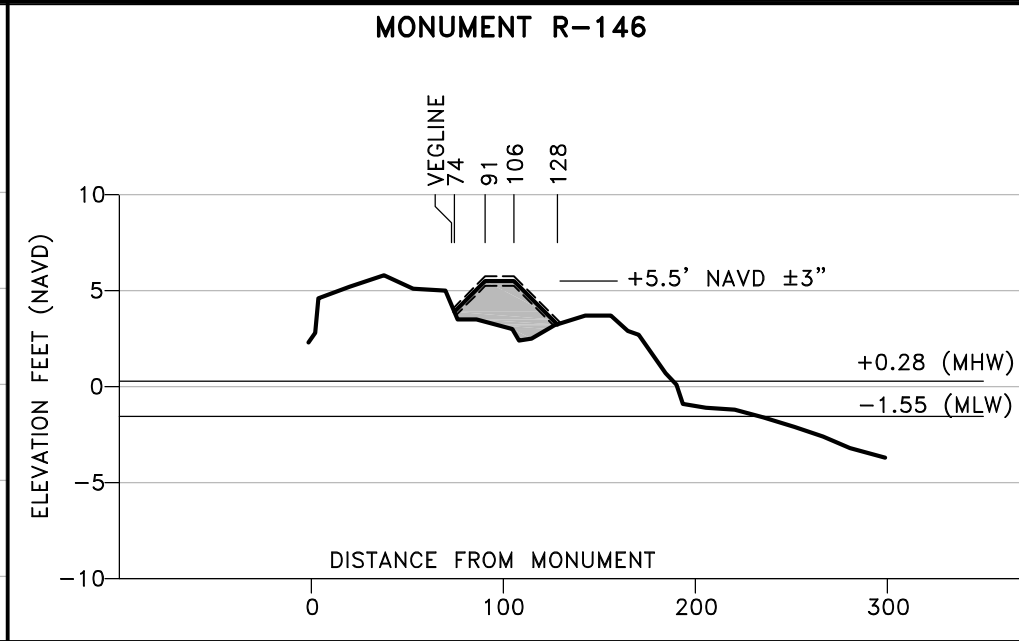
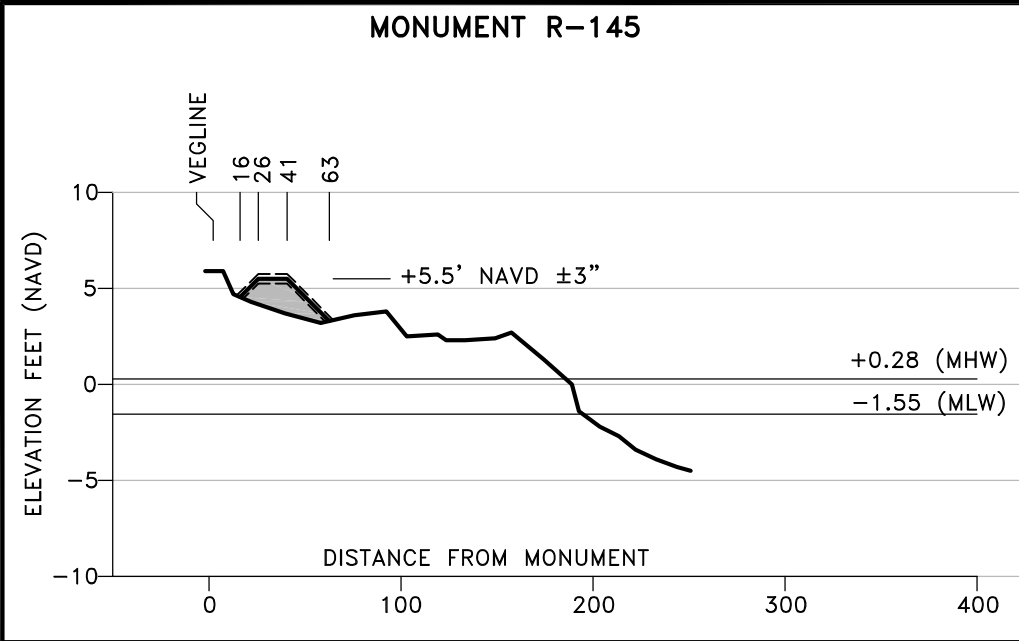
JOB: 27008 DATUM: SHOWN SHEET: 16 OF 21

HUMISTON & MOORE ENGINEERS

COASTAL ENGINEERING DESIGN AND PERMITTING



- NOTES:
1. RANGES AND ELEVATIONS REFER TO THE DESIGN TEMPLATE. TEMPLATE TOLERANCE OF $\pm 3''$ SHOWN FOR REFERENCE ONLY.
 2. NO FILL TO BE PLACED ON ESTABLISHED VEGETATION.
 3. PRE-CONSTRUCTION BEACH PROFILE BASED ON SURVEY BY SDI DATED 7/2023.



CROSS SECTION LEGEND

- DESIGN FILL
- FILL TOLERANCE
- 07/2023 PRE-CON SURVEY

NOTES:

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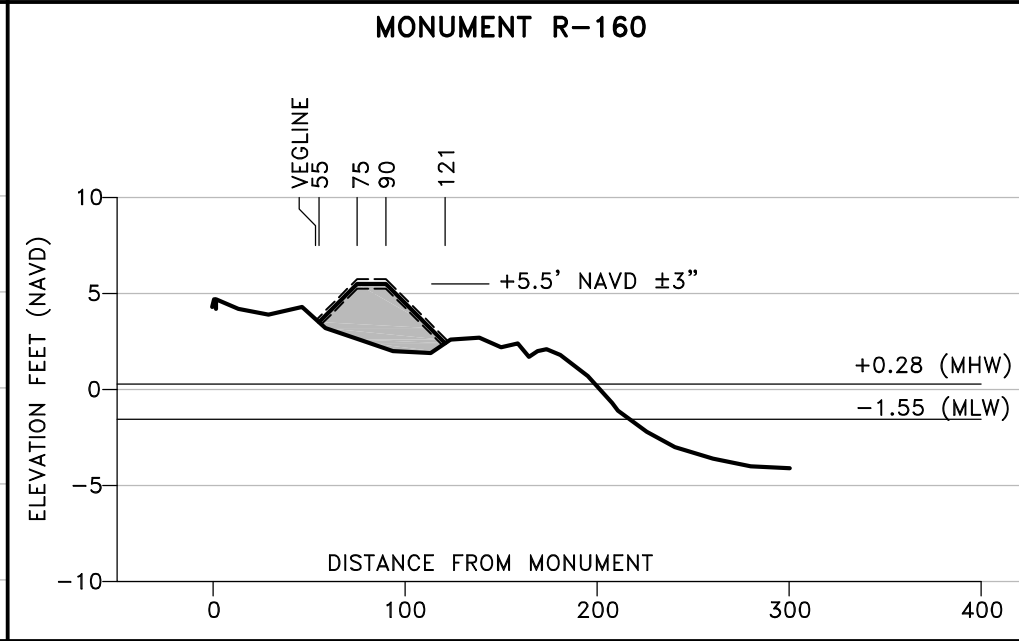
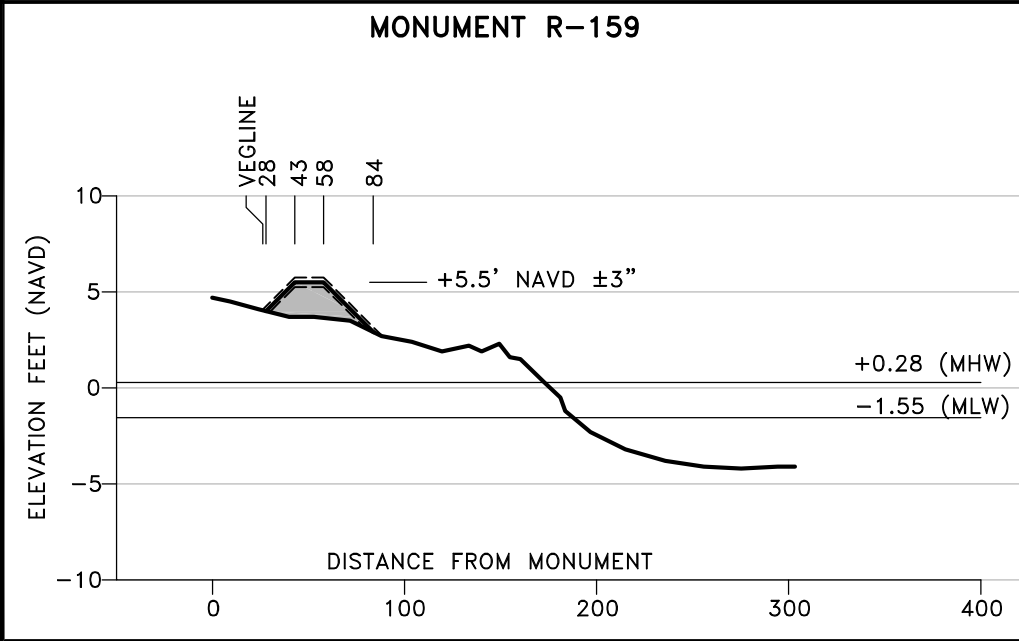
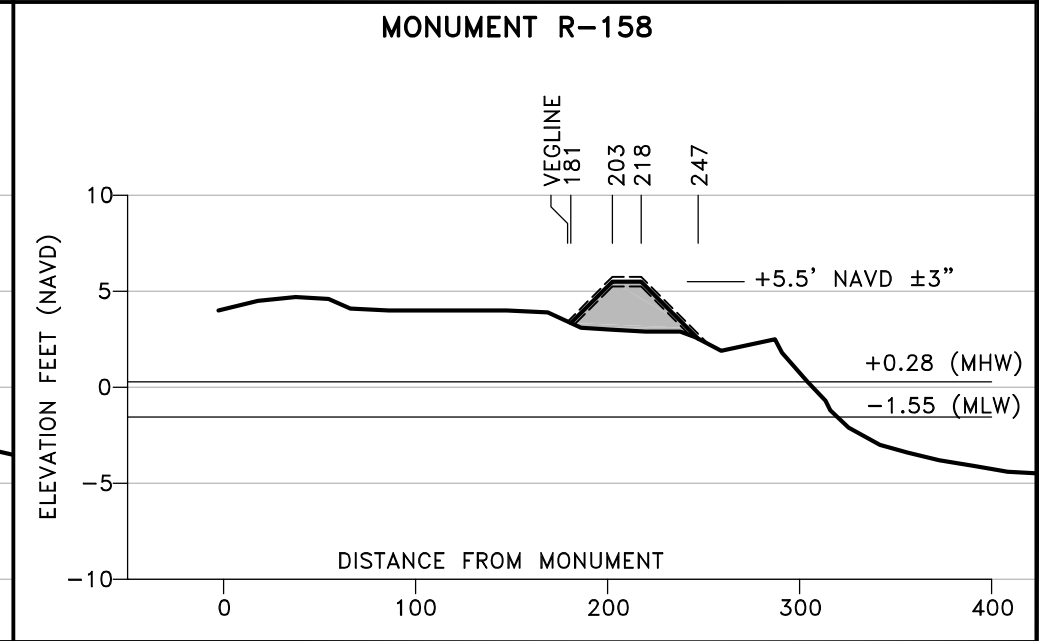
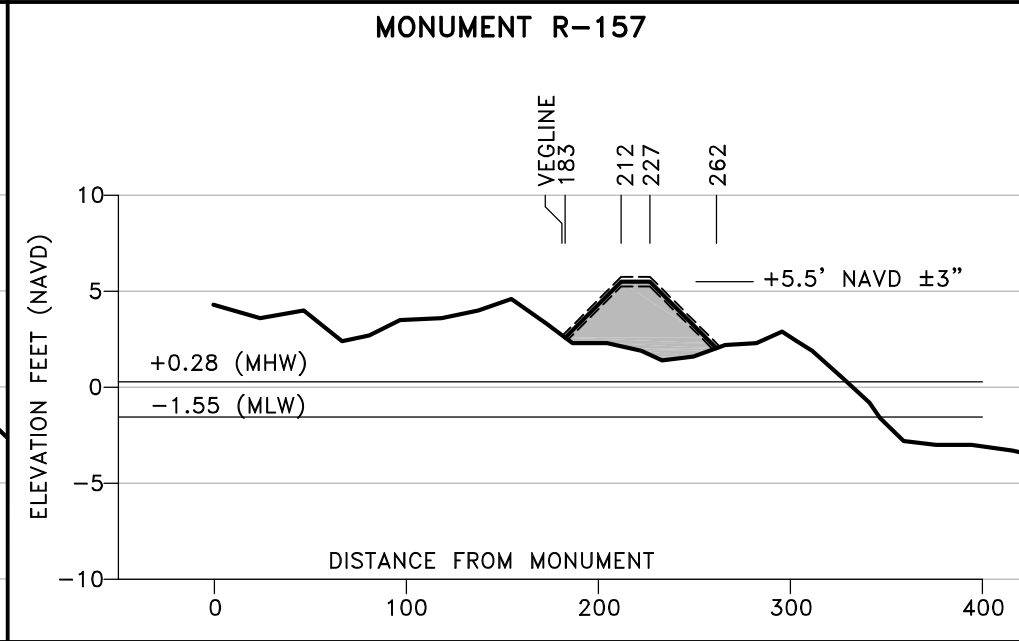
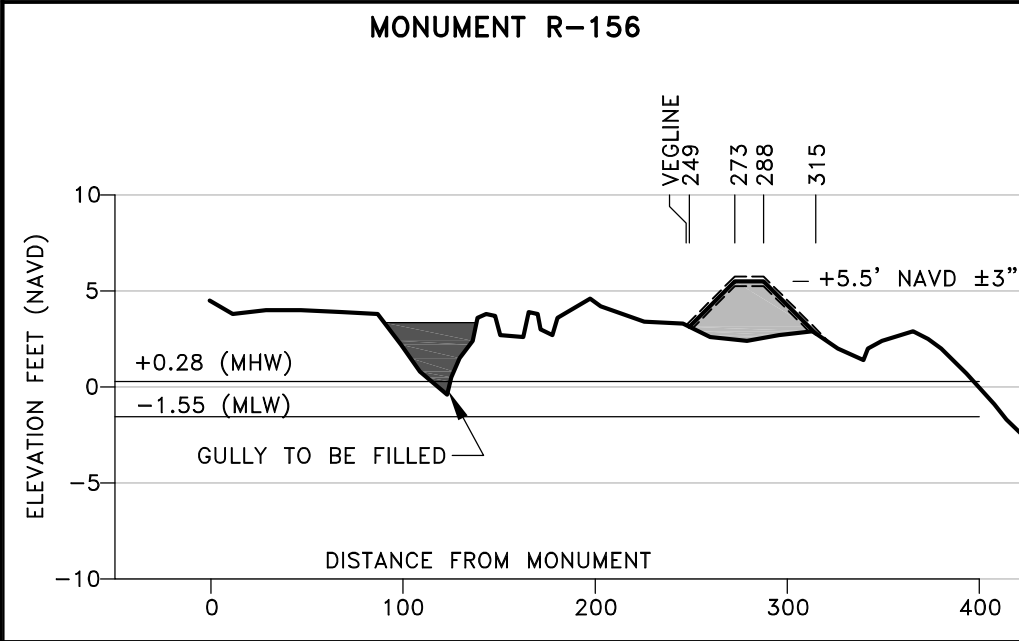
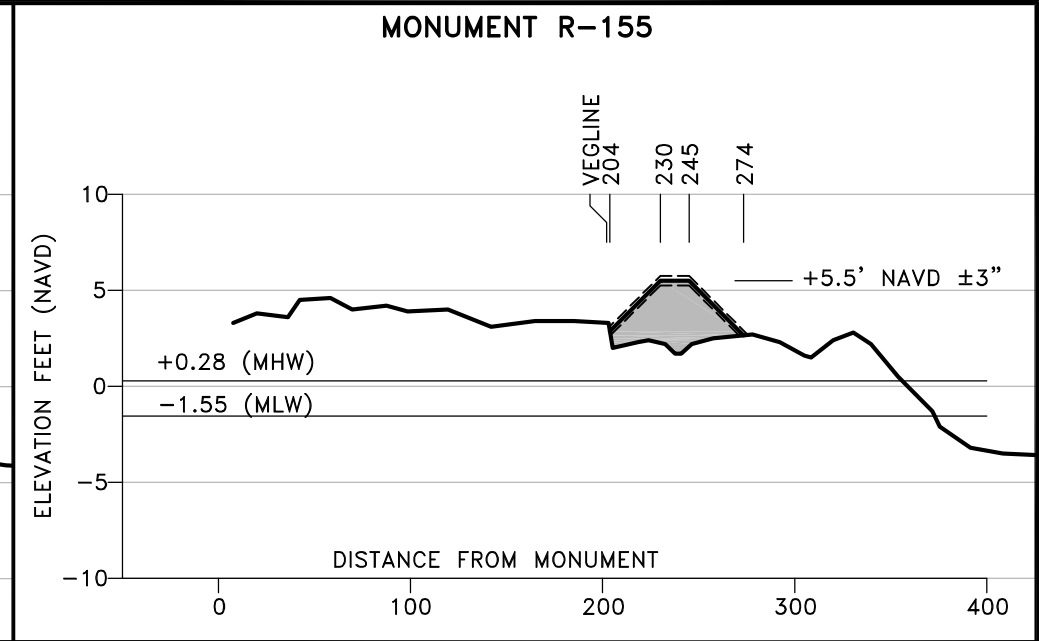
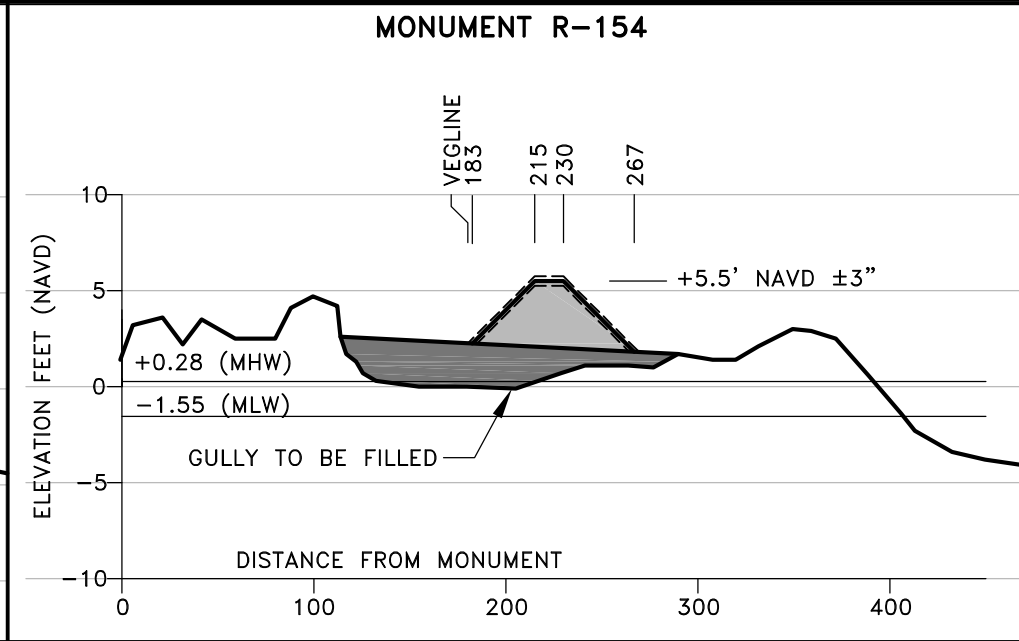
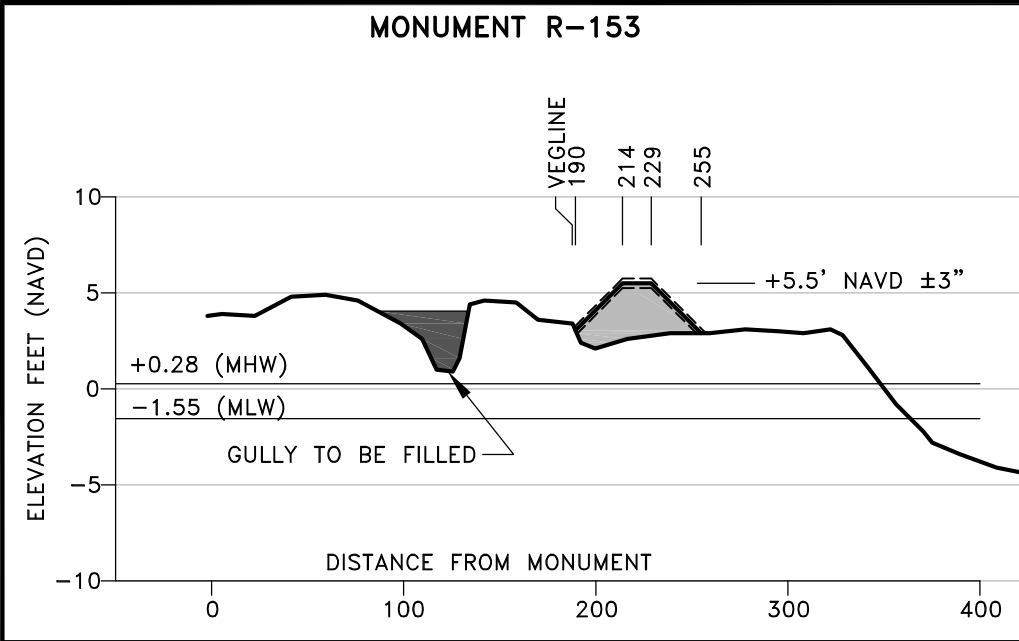
SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT – CROSS SECTIONS

FOR: CITY OF SANIBEL

DATE: 11/10/23	FILE: SECTION	SCALE: SHOWN
JOB: 27008	DATUM: SHOWN	SHEET: 18 OF 21

HUMISTON & MOORE ENGINEERS

COASTAL ENGINEERING DESIGN AND PERMITTING



CROSS SECTION LEGEND

- DESIGN FILL
- FILL TOLERANCE
- 07/2023 PRE-CON SURVEY
- GULLY TO BE FILLED

NOTES:

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SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT – CROSS SECTIONS

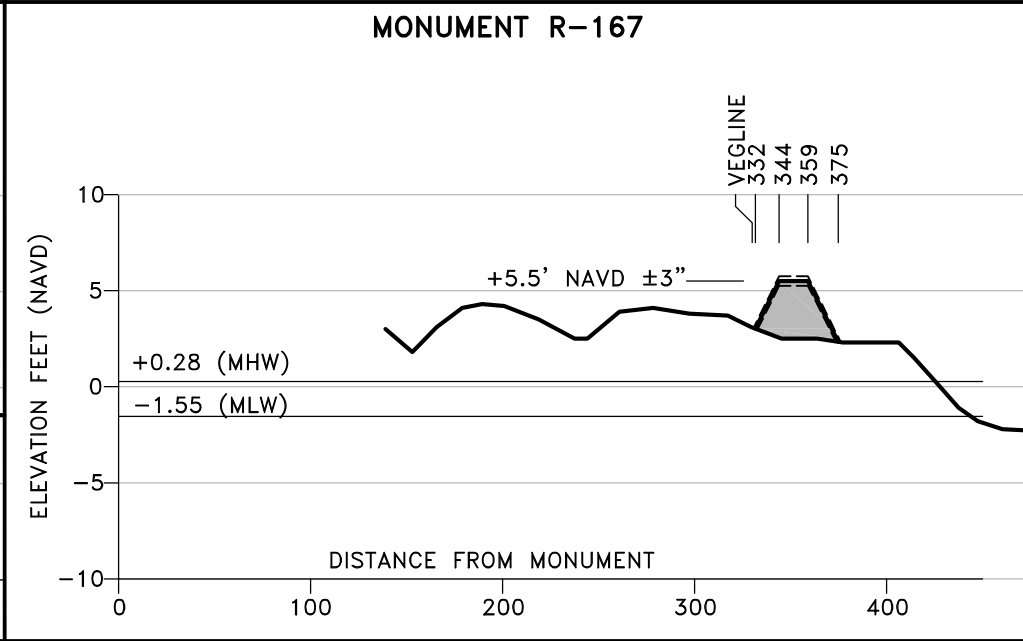
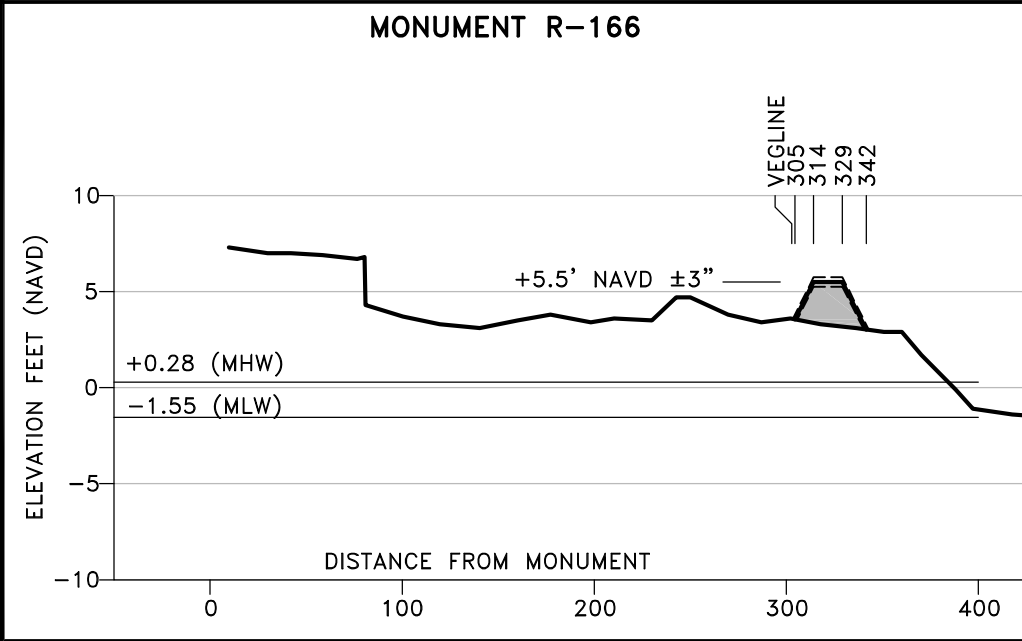
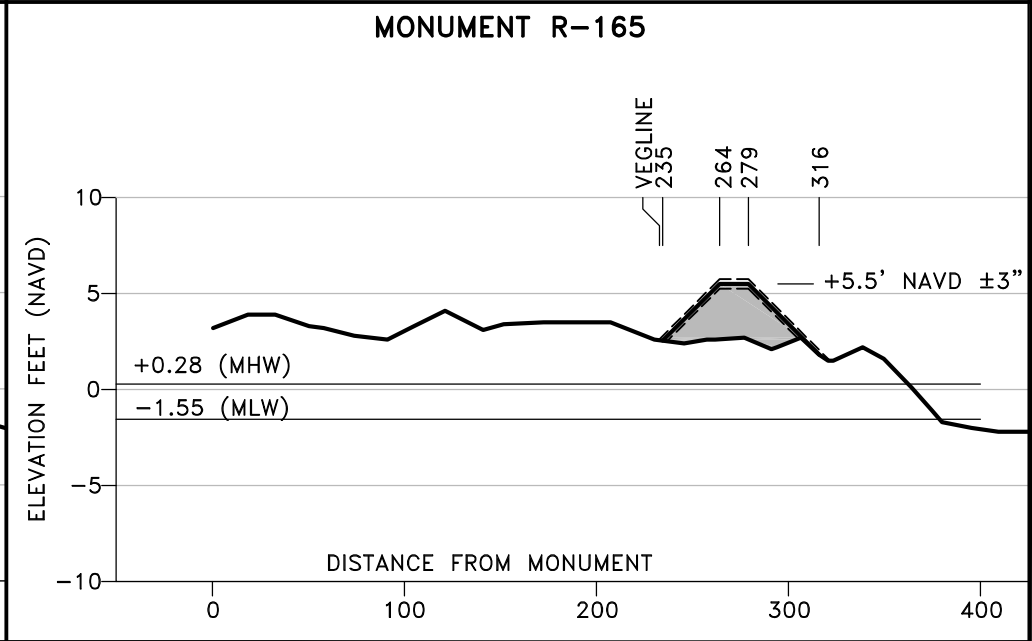
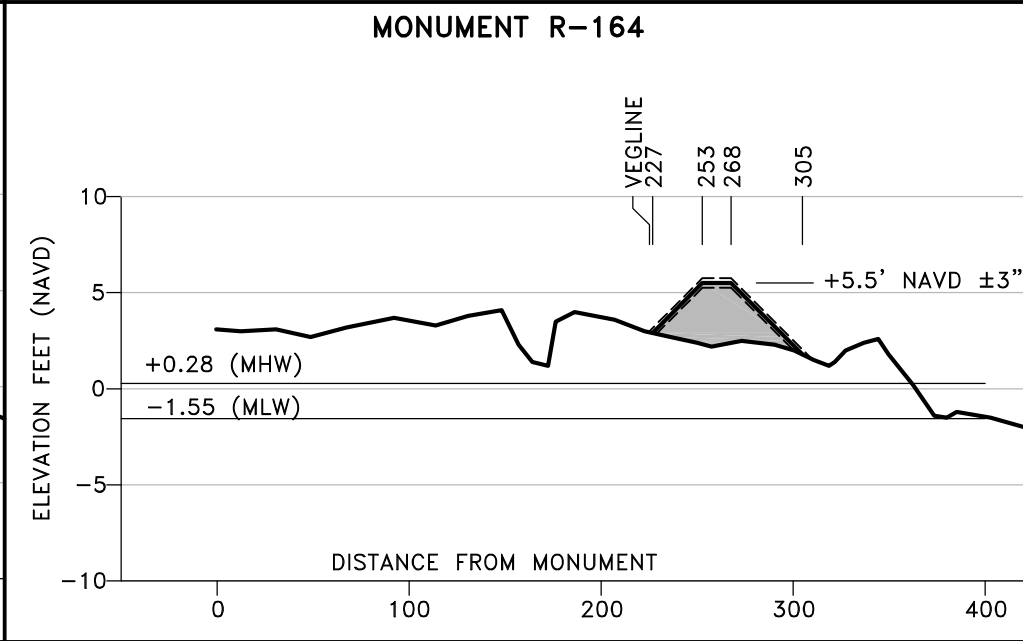
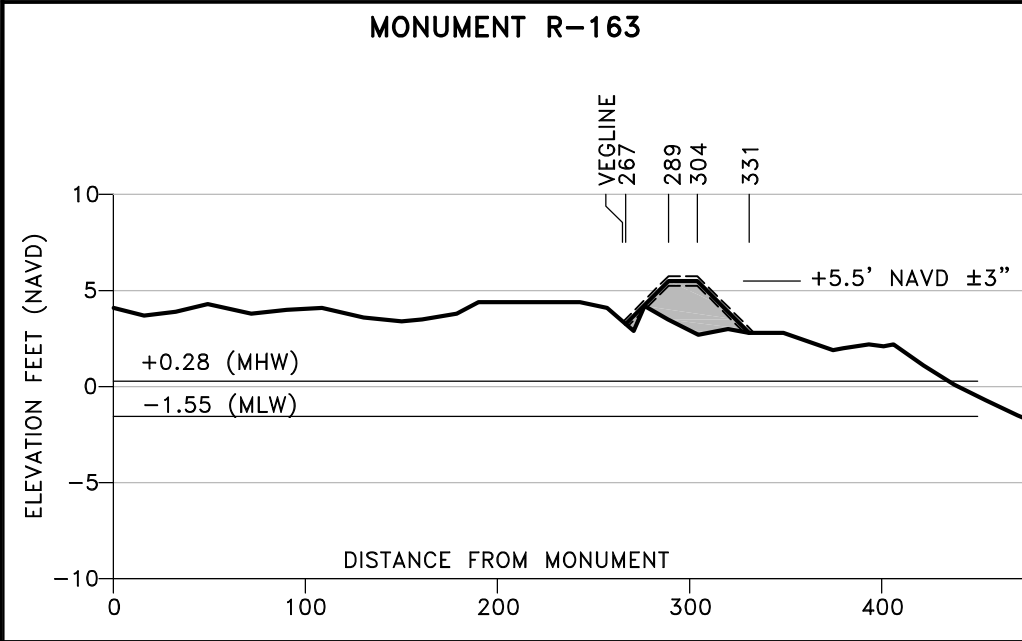
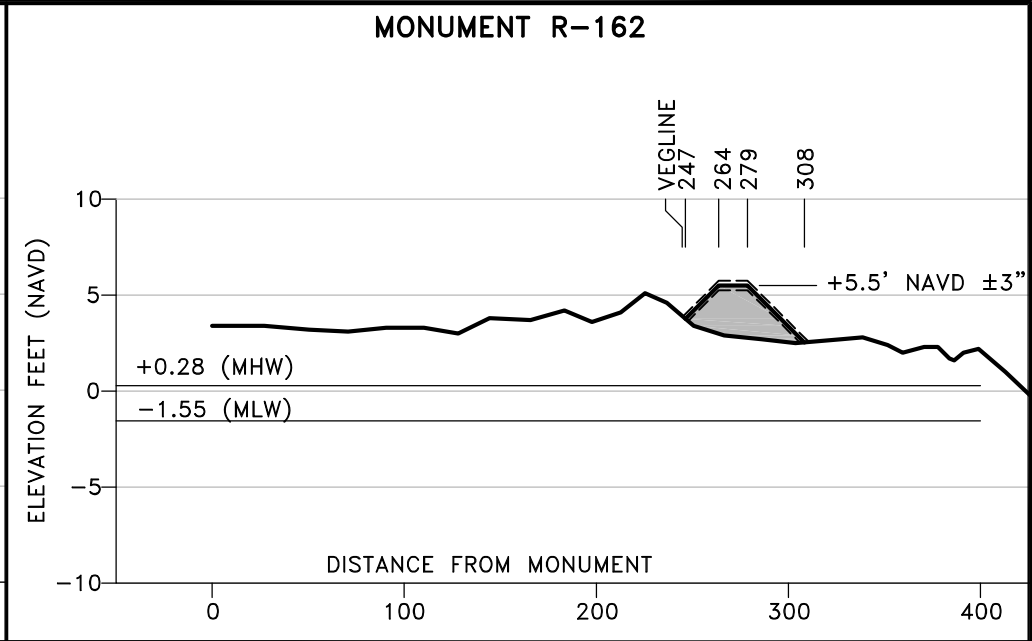
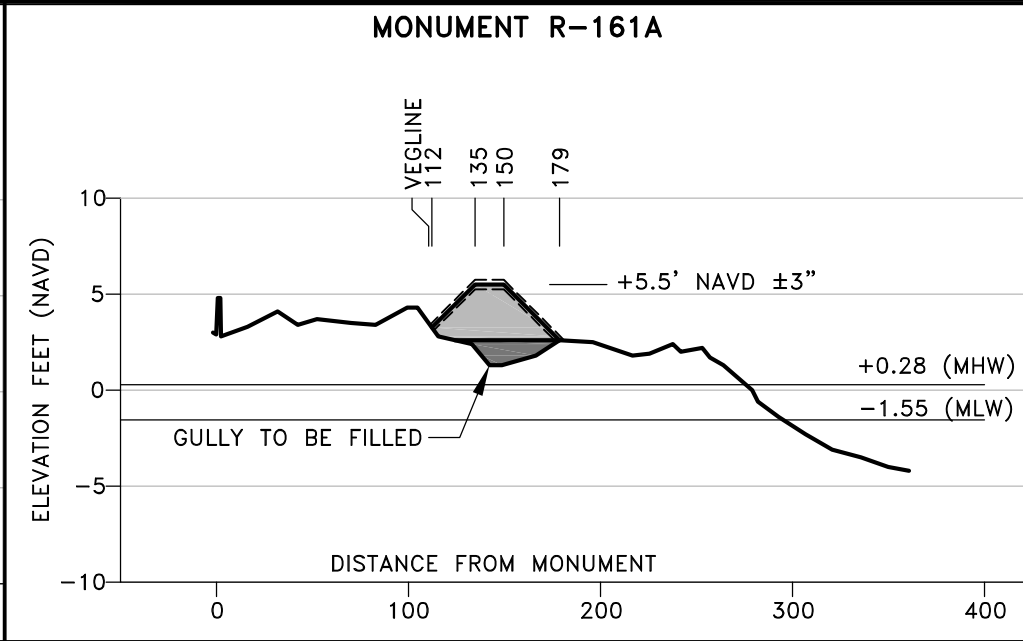
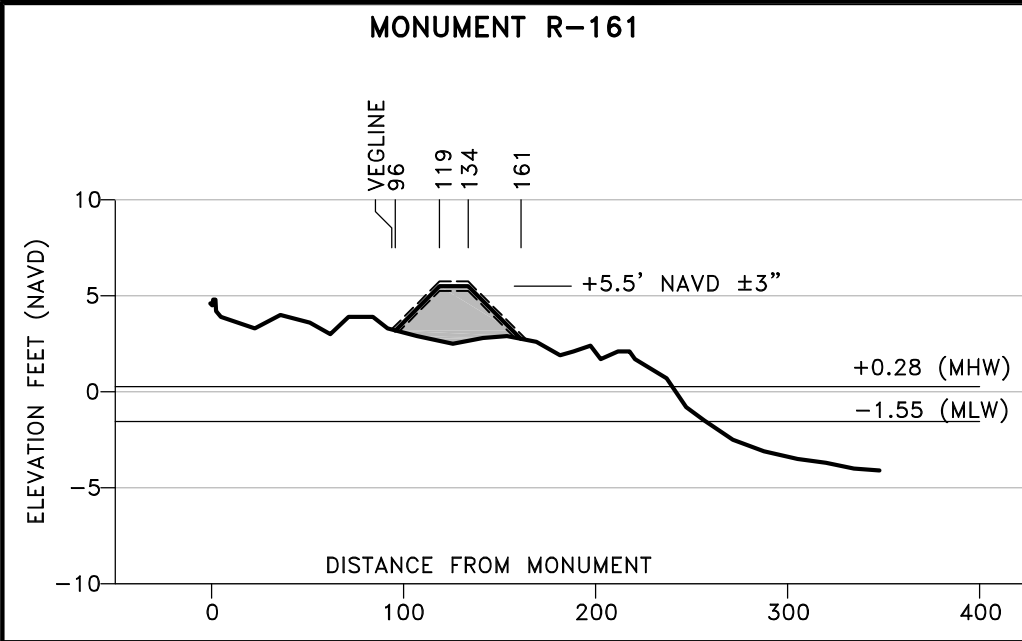
FOR: CITY OF SANIBEL

DATE: 11/10/23 FILE: SECTION SCALE: SHOWN

JOB: 27008 DATUM: SHOWN SHEET: 19 OF 21

HUMISTON & MOORE ENGINEERS

COASTAL ENGINEERING DESIGN AND PERMITTING

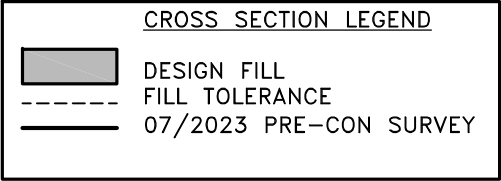
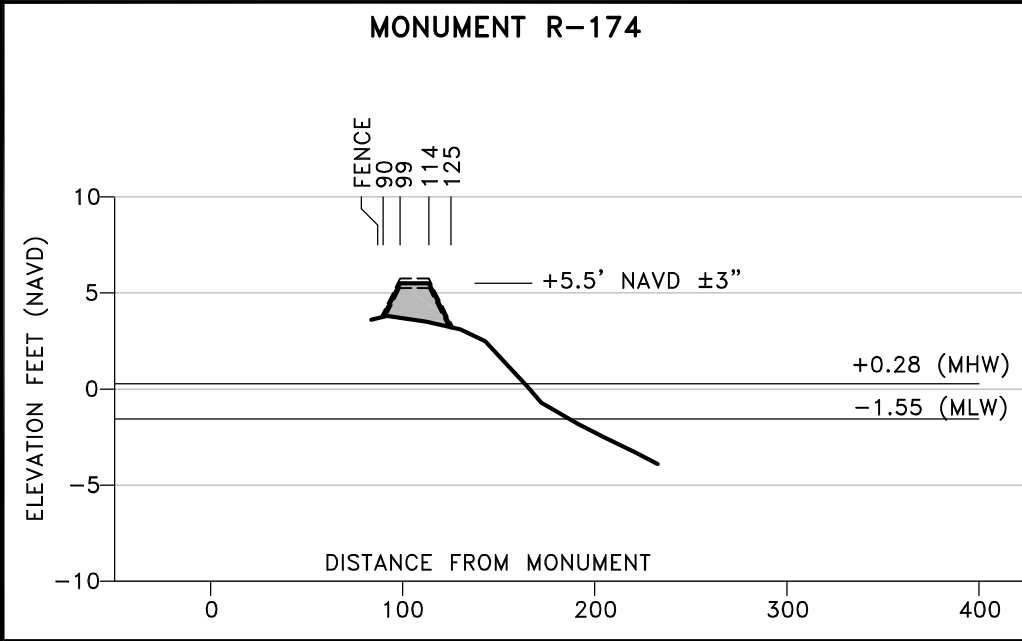
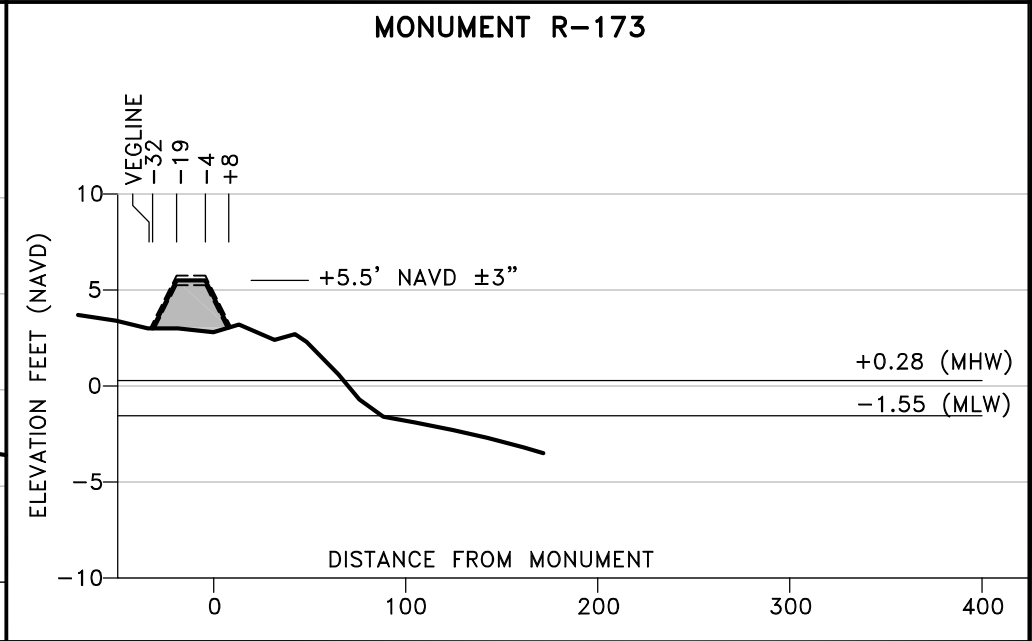
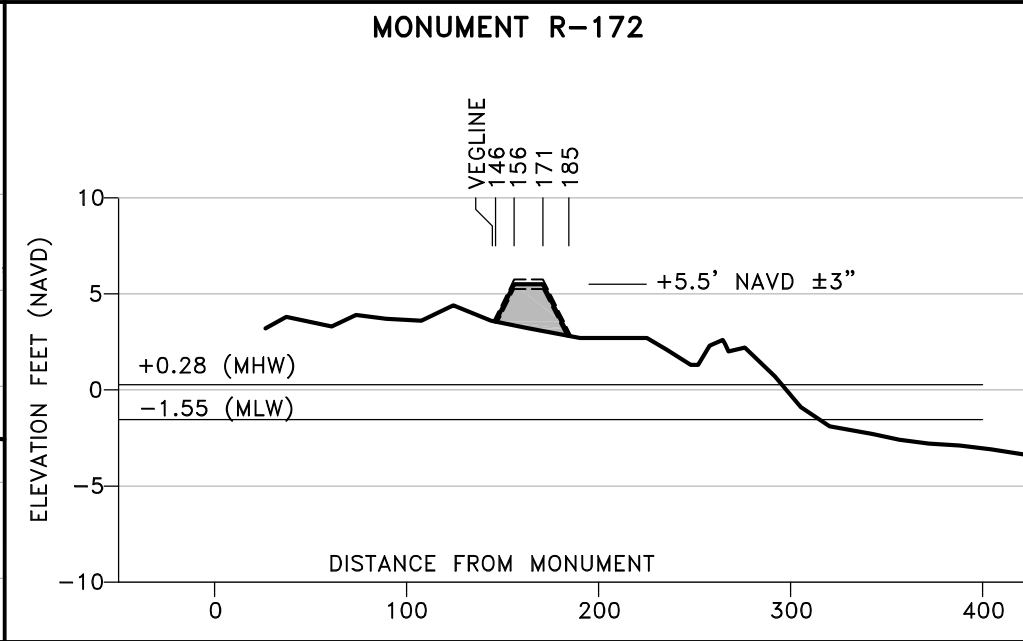
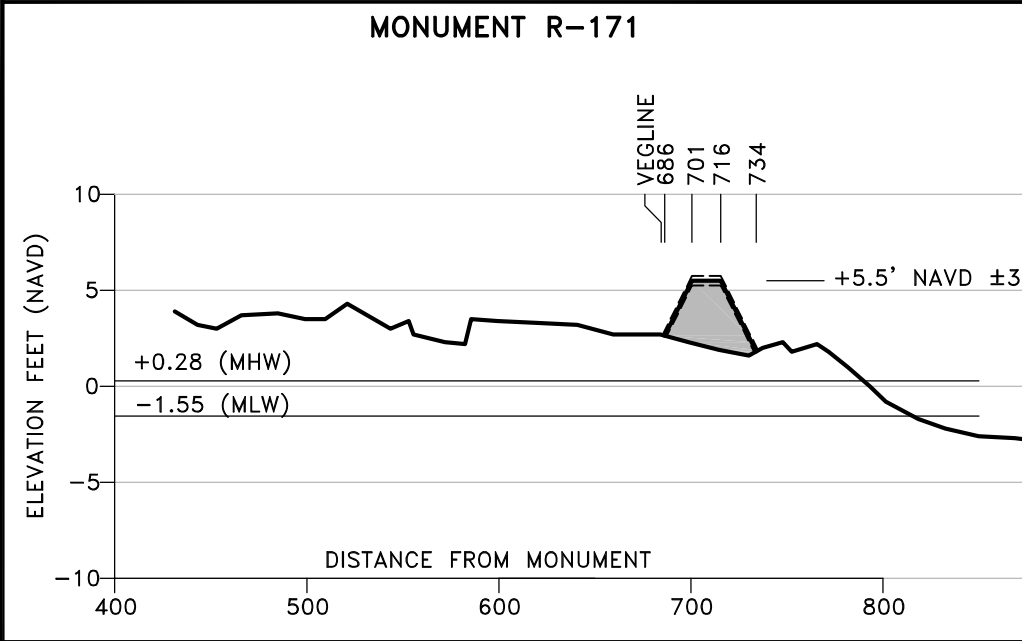
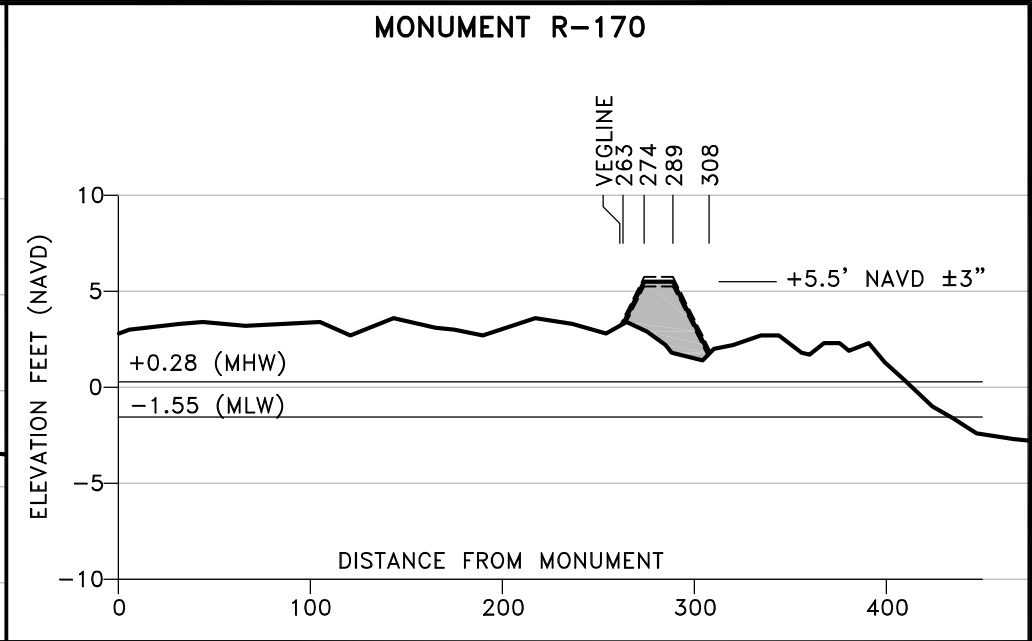
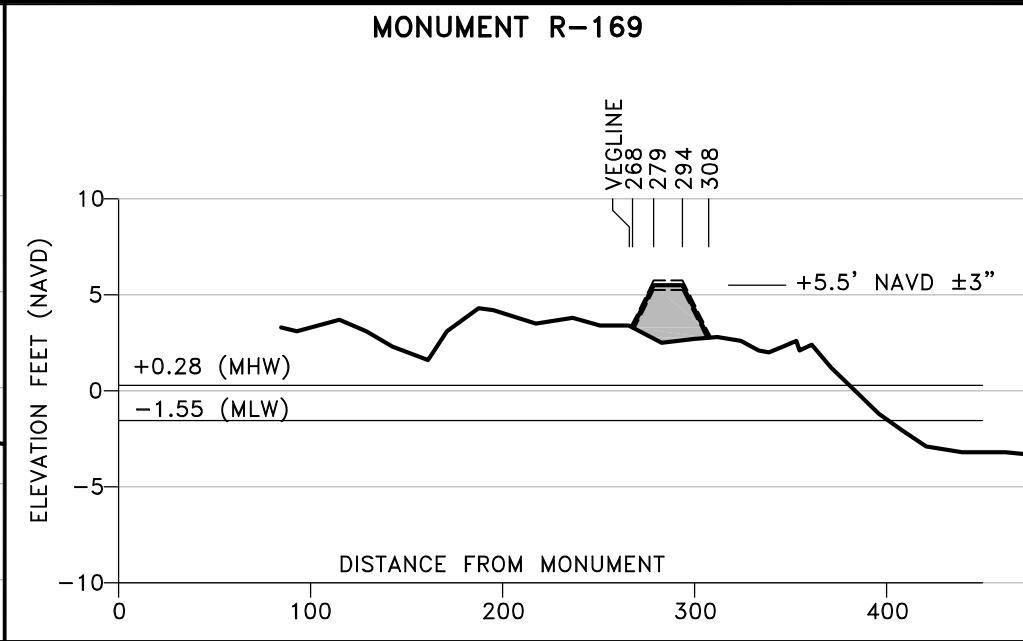
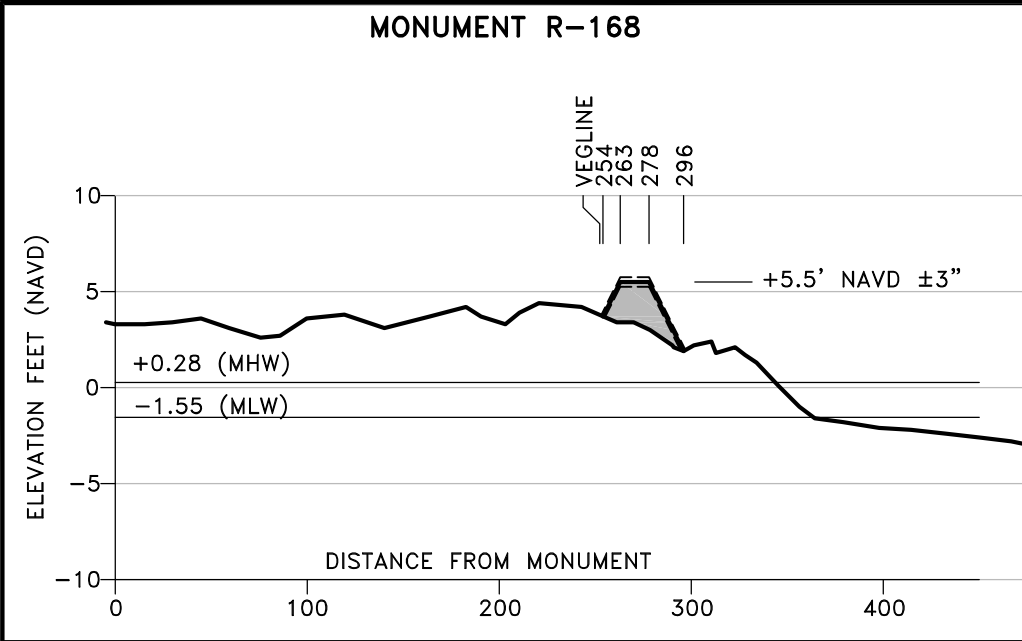


CROSS SECTION LEGEND

	DESIGN FILL
	FILL TOLERANCE
	07/2023 PRE-CON SURVEY
	GULLY TO BE FILLED

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SANIBEL ISLAND POST-STORM EMERGENCY BERM BEACH RECOVERY PROJECT – CROSS SECTIONS		
FOR: CITY OF SANIBEL		
DATE: 11/10/23	FILE: SECTION	SCALE: SHOWN
JOB: 27008	DATUM: SHOWN	SHEET: 21 OF 21

