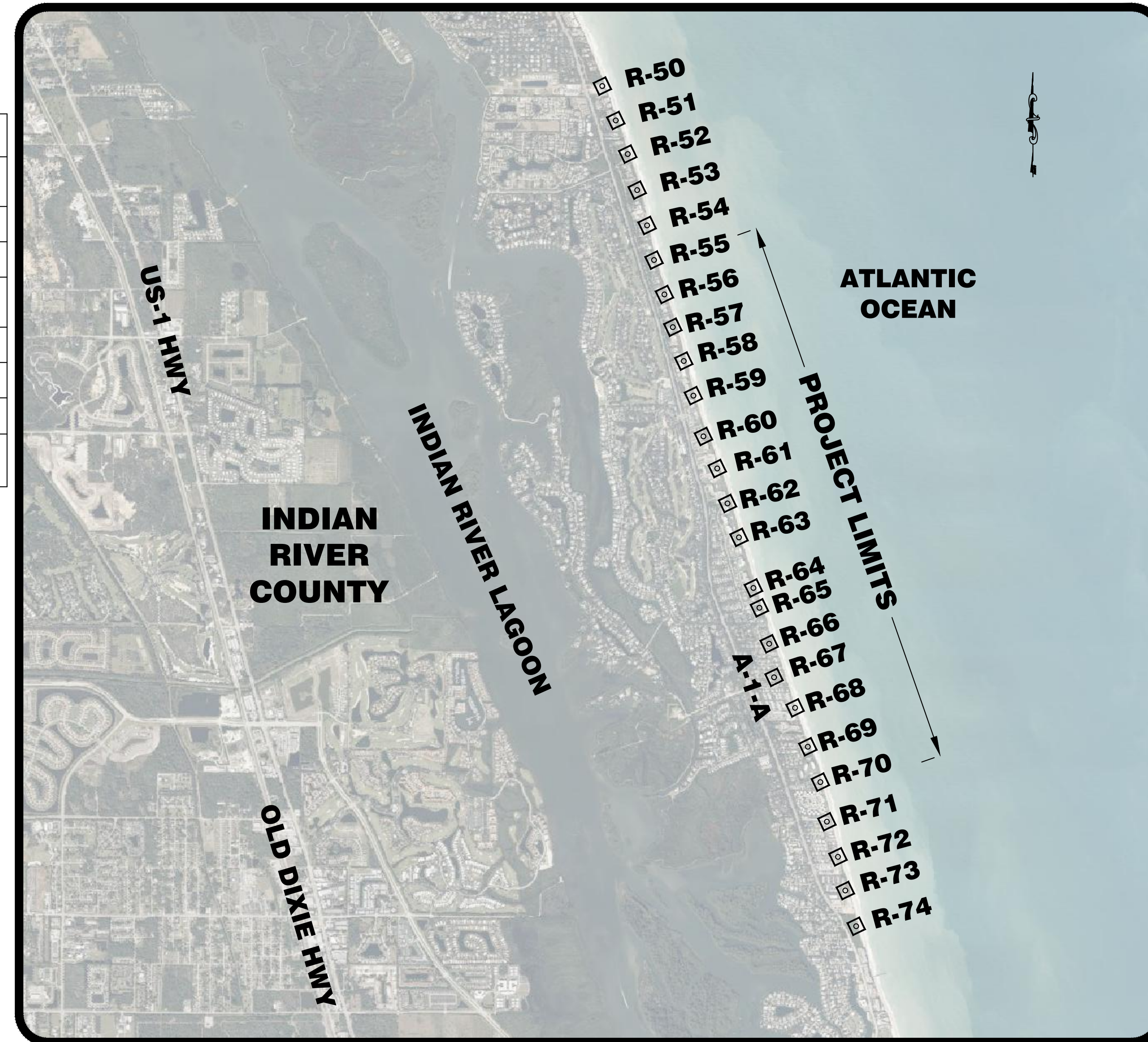


INDIAN RIVER COUNTY SECTOR 4 DUNE RENOURISHMENT PROJECT

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2-3	PAY PROFILE TABLES
4	REFERENCE MONUMENTS TABLES
5	UPLAND SAND MINE MAP
6-19	PLAN VIEW - FILL AREA
20	PROFILES - FILL TEMPLATE
21	PROFILES - FILL TEMPLATE & PLANTING DETAILS



LOCATION MAP
NO SCALE

GENERAL NOTES

1. THE WORK PRIMARILY CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND PERFORMING ALL OPERATIONS IN CONNECTION WITH PROVIDING AND PLACING APPROXIMATELY 113,958 CUBIC YARDS OF SAND AND APPROXIMATELY 147,788 NATIVE DUNE PLANTS ALONG 2.9 MILES OF BEACH WITHIN SECTOR 4 IN INDIAN RIVER COUNTY BETWEEN FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) REFERENCE MONUMENTS R-55 AND R-70 AS SHOWN ON THESE DRAWINGS AND AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.

2. ALL WORK SHALL CONFORM TO THE DRAWINGS AND PERMITS ISSUED BY FDEP, U.S. ARMY CORPS OF ENGINEERS, AND OTHER REQUIRED PERMITS. THE CONTRACTOR SHALL POST ON THE JOB SITE ALL PERMIT PLACARDS AND THE CONTRACTOR SHALL COMPLY WITH ALL TERMS OF THE PERMITS AS PERTAINING TO PERFORMANCE OF THE WORK.

3. THE FOLLOWING TABLE SUMMARIZES POTENTIAL CONSTRUCTION ACCESS/STAGING AREAS AVAILABLE TO THE CONTRACTOR:

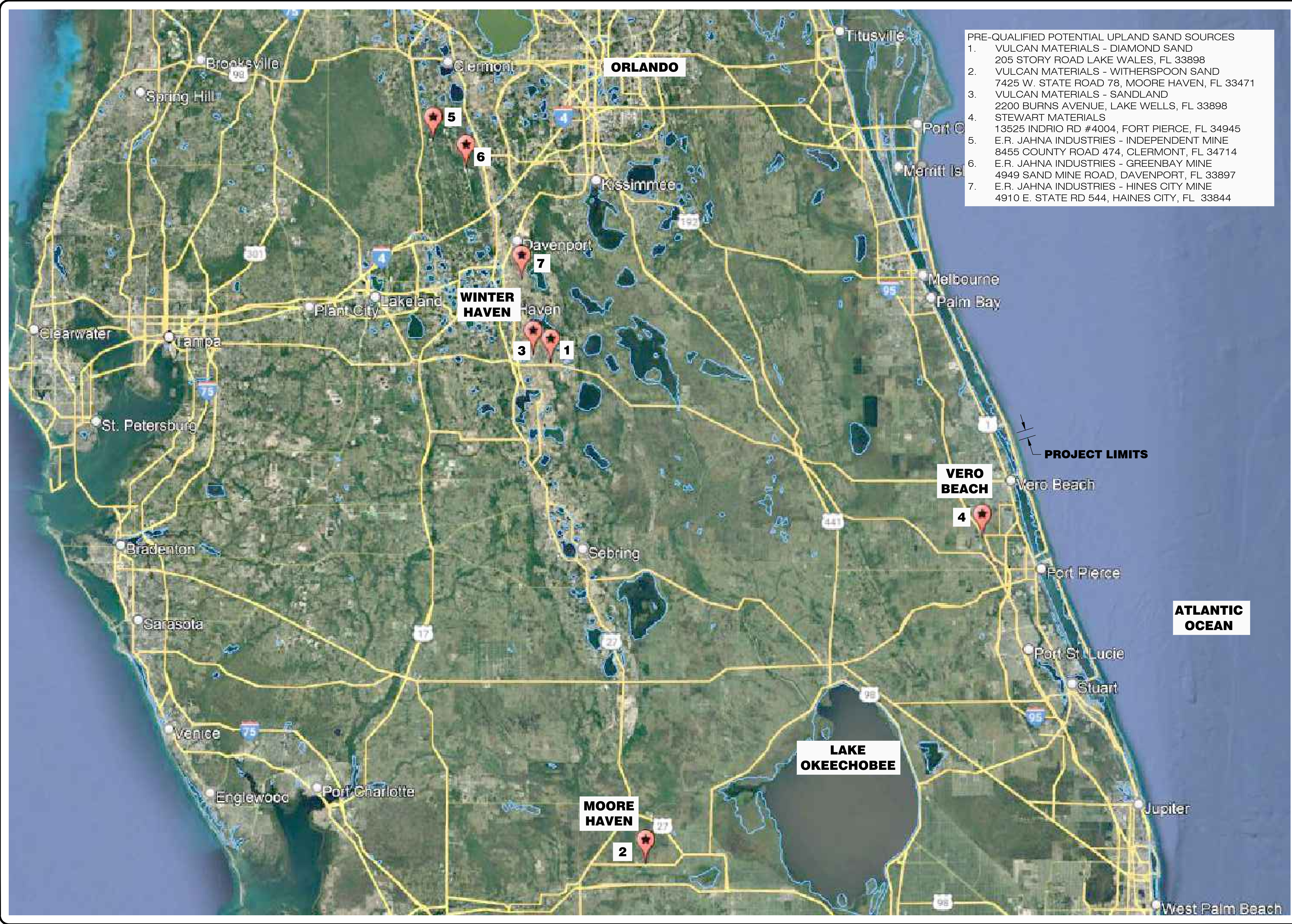
POTENTIAL UPLAND STAGING AREA	FDEP REFERENCE MONUMENT
TURTLE TRAIL BEACH PARK	-500 FT SOUTH OF R-51
VACANT PARCEL AT 1 SEA COURT	R-54
BEACHCOMBER LANE RIGHT OF WAY	R-57

THE ACTUAL AREA IN EACH LOCATION TO BE USED BY THE CONTRACTOR IS AT THE DISCRETION OF THE CONTRACTOR SUBJECT TO:

- ACCEPTANCE BY THE COUNTY AND ENGINEER, AND
- COMPLETE RESTORATION BY THE CONTRACTOR OF ANY SITE USED.

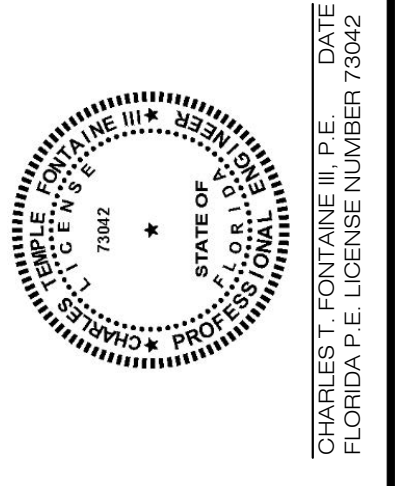
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET ON-SITE WITH THE ENGINEER AND INDIAN RIVER COUNTY STAFF (PRE-CONSTRUCTION MEETING) TO VERIFY CONSTRUCTION ACCESS LOCATIONS, DESIGN DETAILS, AND METHODS OF CONSTRUCTION.

5. SEE THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL DETAILS OF THE WORK.



- PRE-QUALIFIED POTENTIAL UPLAND SAND SOURCES**
- VULCAN MATERIALS - DIAMOND SAND
205 STORY ROAD LAKE WALES, FL 33898
 - VULCAN MATERIALS - WITHERSPOON SAND
7425 W. STATE ROAD 78, MOORE HAVEN, FL 33471
 - VULCAN MATERIALS - SANDLAND
2200 BURNS AVENUE, LAKE WELLS, FL 33898
 - STEWART MATERIALS
13525 INDRIQ RD #4004, FORT PIERCE, FL 34945
 - E.R. JAHNA INDUSTRIES - INDEPENDENT MINE
8455 COUNTY ROAD 474, CLERMONT, FL 34714
 - E.R. JAHNA INDUSTRIES - GREENBAY MINE
4949 SAND MINE ROAD, DAVENPORT, FL 33897
 - E.R. JAHNA INDUSTRIES - HINES CITY MINE
4910 E. STATE RD 544, HAINES CITY, FL 33844

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POTENTIAL UPLAND SAND MINE MAP
 SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV	DATE	NOTES

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CHECKED BY	
PROJECT NO.	

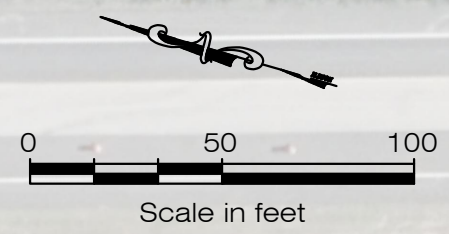


NOTES:

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2. 1999 NEARSHORE HARDBOTTOM LIMITS FROM INTERPRETATION OF 1999 AERIAL PHOTOGRAPHY PERFORMED BY DIAL CORDY AND ASSOCIATES AND PROVIDED BY INDIAN RIVER COUNTY.
3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

LEGEND:

EXISTING		PROPOSED	
	REFERENCE MONUMENT		POTENTIAL CONSTRUCTION ACCESS / STAGING AREA
	NEARSHORE HARDBOTTOM		POTENTIAL CONSTRUCTION ACCESS ROUTE (NO FILL PROPOSED)
	MEAN HIGH WATER LINE +0.57 FT. NAVD		
	PARCEL LINES		



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CHARLES T. FONTAINE II, P.E. DATE
 FLORIDA P.E. LICENSE NUMBER 73042

PLAN VIEW - FILL AREA

SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAWN BY: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004181.003

SHEET **6**
 OF SHEET 21

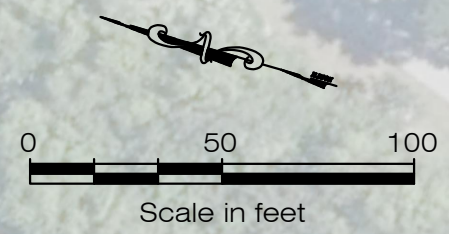


NOTES:

1. AERIAL IMAGE FROM FLORIDA DEPARTMENT OF TRANSPORTATION DATED 01/05/2021.
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3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

LEGEND:

<p>EXISTING</p> <p> REFERENCE MONUMENT</p> <p> NEARSHORE HARBOTTOM</p> <p> MEAN HIGH WATER LINE +0.57 FT. NAVD</p> <p> PARCEL LINES</p>	<p>PROPOSED</p> <p> POTENTIAL CONSTRUCTION ACCESS ROUTE (NO FILL PROPOSED)</p>
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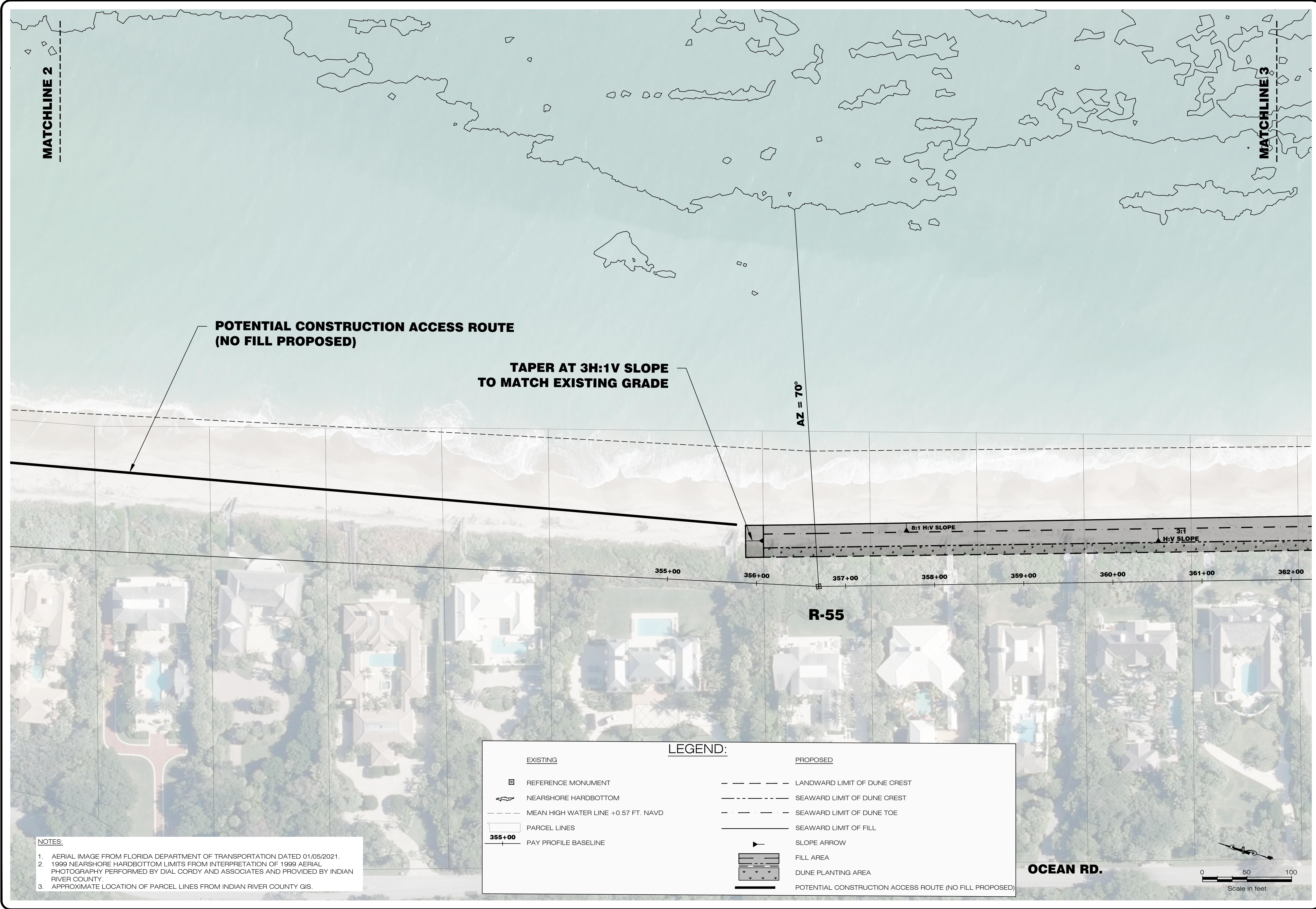
CHARLES T. FONTAINE III, P.E.
 FLORIDA P.E. LICENSE NUMBER 73942

PLAN VIEW - FILL AREA

SECTOR 4 DUNE RENOURISHMENT PROJECT
INDIAN RIVER COUNTY

REV.	DATE	NOTES	DATE DRAWN: 07/12/2024	PROJECT NO.: 1004161.003

SHEET **7**
 OF SHEET 21



**POTENTIAL CONSTRUCTION ACCESS ROUTE
(NO FILL PROPOSED)**

**TAPER AT 3H:1V SLOPE
TO MATCH EXISTING GRADE**

AZ = 70°

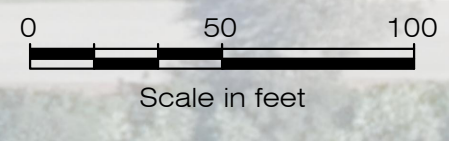
8:1 H:V SLOPE

3:1 H:V SLOPE

355+00 356+00 357+00 358+00 359+00 360+00 361+00 362+00

R-55

OCEAN RD.



NOTES:
 1. AERIAL IMAGE FROM FLORIDA DEPARTMENT OF TRANSPORTATION DATED 01/05/2021.
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 3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

LEGEND:

EXISTING	PROPOSED
REFERENCE MONUMENT	LANDWARD LIMIT OF DUNE CREST
NEARSHORE HARDBOTTOM	SEAWARD LIMIT OF DUNE CREST
MEAN HIGH WATER LINE +0.57 FT. NAVD	SEAWARD LIMIT OF DUNE TOE
PARCEL LINES	SEAWARD LIMIT OF FILL
PAY PROFILE BASELINE	SLOPE ARROW
	FILL AREA
	DUNE PLANTING AREA
	POTENTIAL CONSTRUCTION ACCESS ROUTE (NO FILL PROPOSED)

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PLAN VIEW - FILL AREA
SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAWN BY: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004161.003

SHEET **8**
 OF SHEET 21



NOTES:
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 3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

EXISTING		PROPOSED	
	REFERENCE MONUMENT		LANDWARD LIMIT OF DUNE CREST
	NEARSHORE HARDBOTTOM		SEAWARD LIMIT OF DUNE CREST
	MEAN HIGH WATER LINE +0.57 FT. NAVD		SEAWARD LIMIT OF DUNE TOE
	PARCEL LINES		SEAWARD LIMIT OF FILL
	PAY PROFILE BASELINE		SLOPE ARROW
			FILL AREA
			DUNE PLANTING AREA

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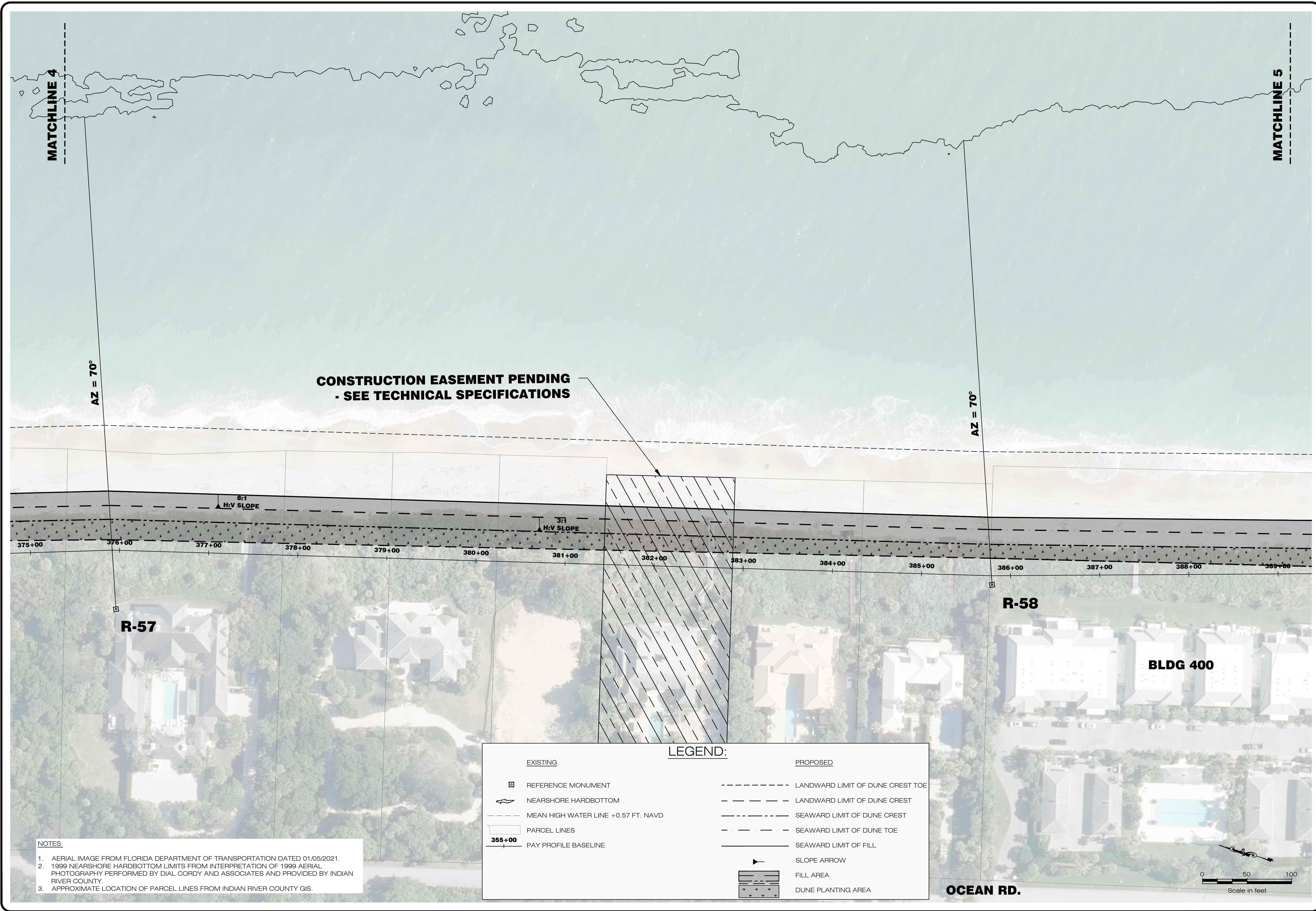
CHARLES T. FONTAINE II, P.E. DATE
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PLAN VIEW - FILL AREA
SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

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 CHECKED BY: MPW
 PROJECT NO.: 1004161.003

SHEET 9 OF SHEET 21



- NOTES:**
1. AERIAL IMAGE FROM FLORIDA DEPARTMENT OF TRANSPORTATION DATED 01/05/2021.
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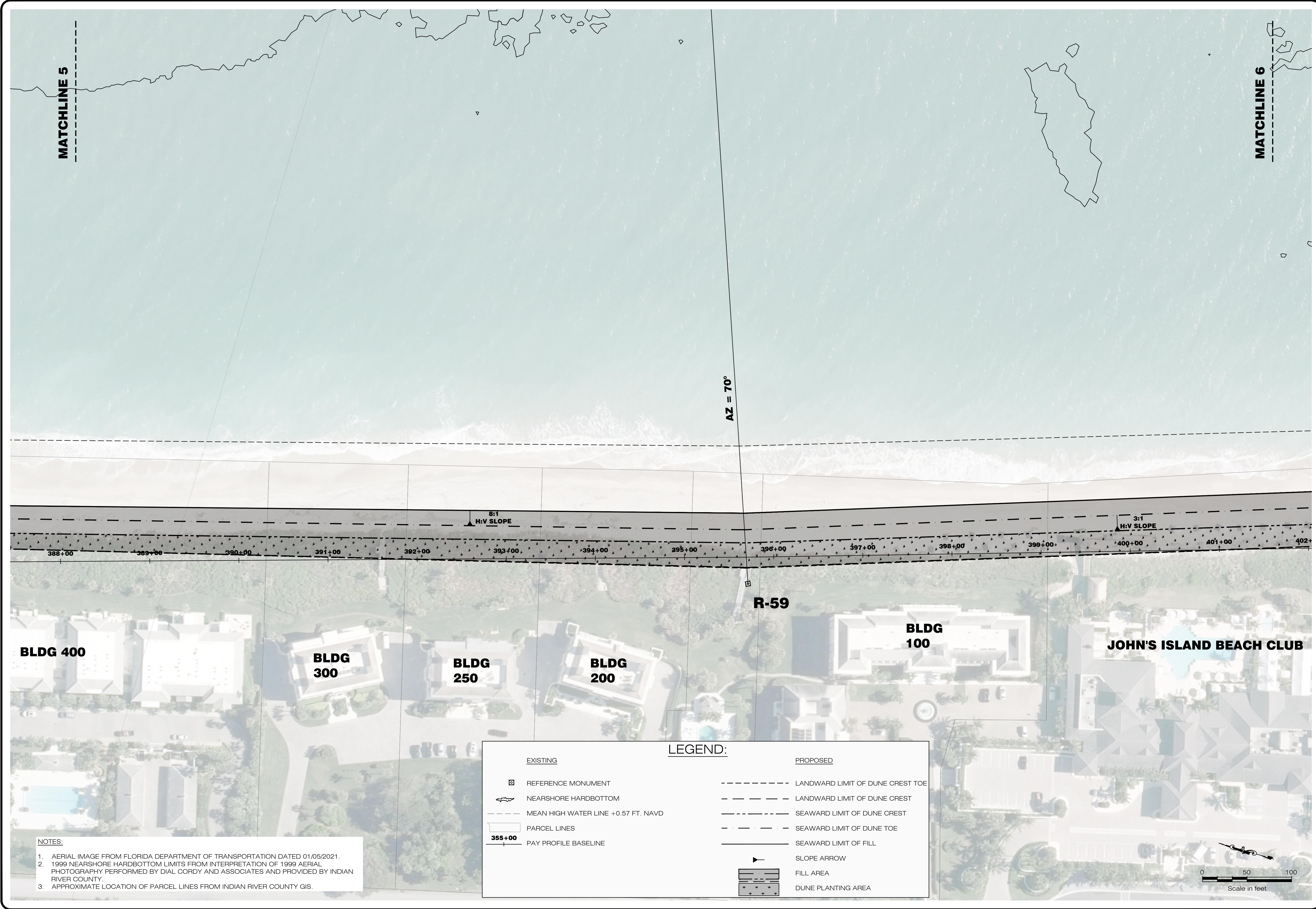
LEGEND:

EXISTING	PROPOSED
REFERENCE MONUMENT	LANDWARD LIMIT OF DUNE CREST TOE
NEARSHORE HARDBOTTOM	LANDWARD LIMIT OF DUNE CREST
MEAN HIGH WATER LINE +0.57 FT. NAVD	SEAWARD LIMIT OF DUNE CREST
PARCEL LINES	SEAWARD LIMIT OF DUNE TOE
PAY PROFILE BASELINE	SEAWARD LIMIT OF FILL
	SLOPE ARROW
	FILL AREA
	DUNE PLANTING AREA

REV.	DATE	NOTES

DRAWN BY: AON DATE DRAWN: 07/12/2024
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 PROJECT NO.: 1004181.003

SHEET **10**
 OF SHEET 21

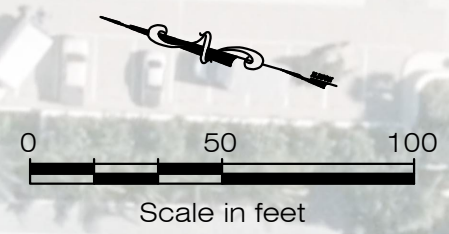


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3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

LEGEND:

EXISTING	PROPOSED
REFERENCE MONUMENT	LANDWARD LIMIT OF DUNE CREST TOE
NEARSHORE HARDBOTTOM	LANDWARD LIMIT OF DUNE CREST
MEAN HIGH WATER LINE +0.57 FT. NAVD	SEAWARD LIMIT OF DUNE CREST
PARCEL LINES	SEAWARD LIMIT OF DUNE TOE
PAY PROFILE BASELINE	SEAWARD LIMIT OF FILL
	SLOPE ARROW
	FILL AREA
	DUNE PLANTING AREA



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CHARLES T. FONTAINE II, P.E. DATE: _____
 FLORIDA P.E. LICENSE NUMBER 73942

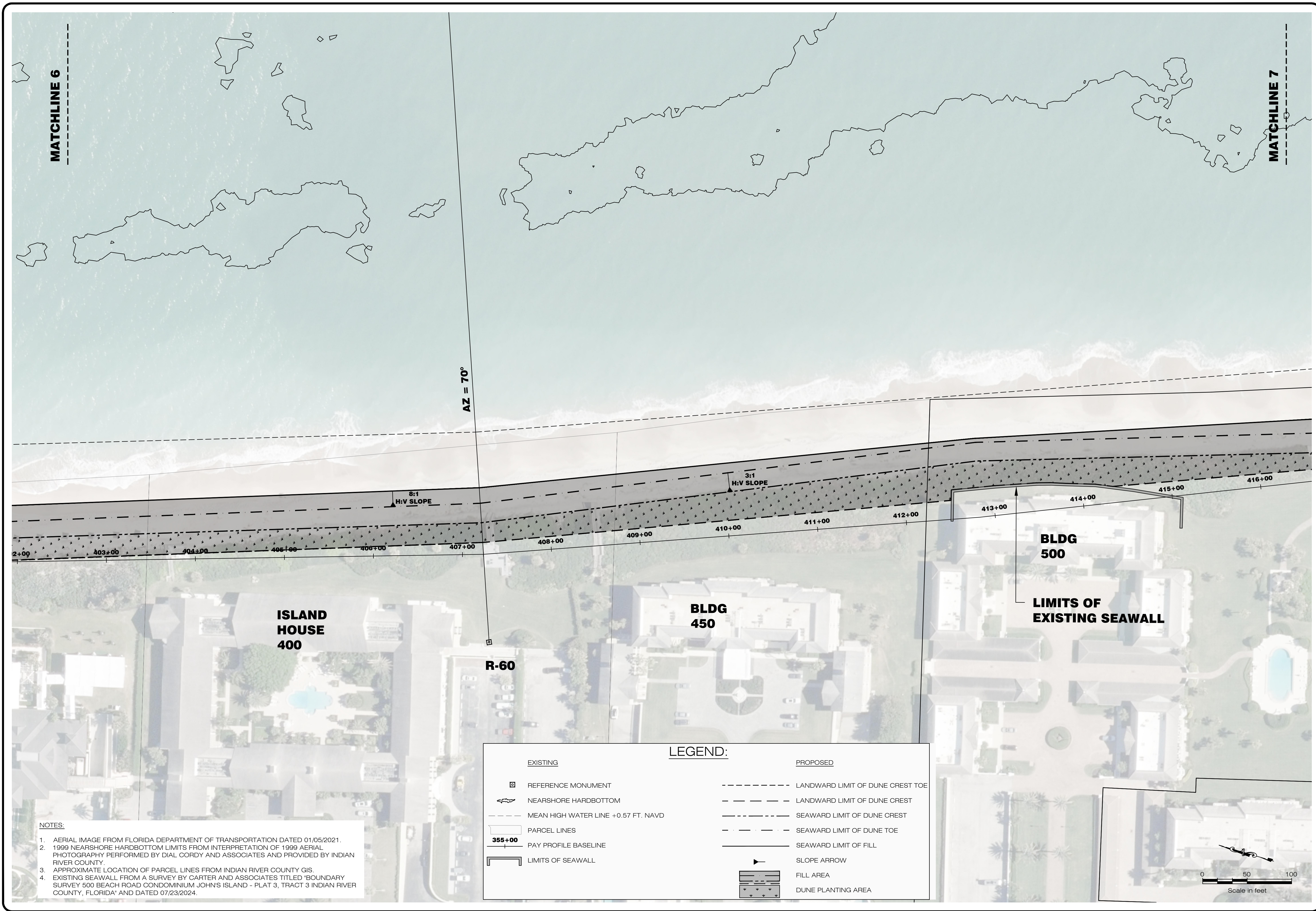
PLAN VIEW - FILL AREA

SECTOR 4 DUNE RENOURISHMENT PROJECT
INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAWN BY: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004181.003

SHEET **11**
 OF SHEET 21



- NOTES:**
1. AERIAL IMAGE FROM FLORIDA DEPARTMENT OF TRANSPORTATION DATED 01/05/2021.
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 3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.
 4. EXISTING SEAWALL FROM A SURVEY BY CARTER AND ASSOCIATES TITLED "BOUNDARY SURVEY 500 BEACH ROAD CONDOMINIUM JOHN'S ISLAND - PLAT 3, TRACT 3 INDIAN RIVER COUNTY, FLORIDA" AND DATED 07/23/2024.

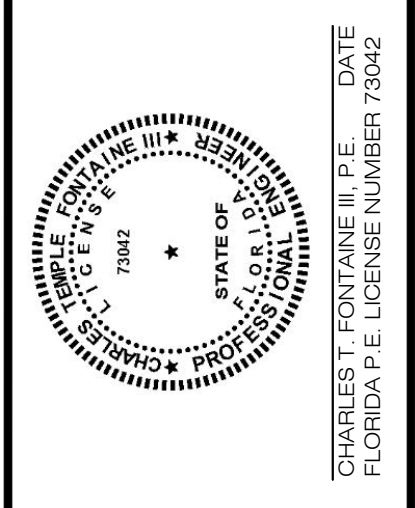
LEGEND:

EXISTING		PROPOSED	
	REFERENCE MONUMENT		LANDWARD LIMIT OF DUNE CREST TOE
	NEARSHORE HARDBOTTOM		LANDWARD LIMIT OF DUNE CREST
	MEAN HIGH WATER LINE +0.57 FT. NAVD		SEAWARD LIMIT OF DUNE CREST
	PARCEL LINES		SEAWARD LIMIT OF DUNE TOE
	PAY PROFILE BASELINE		SEAWARD LIMIT OF FILL
	LIMITS OF SEAWALL		SLOPE ARROW
			FILL AREA
			DUNE PLANTING AREA



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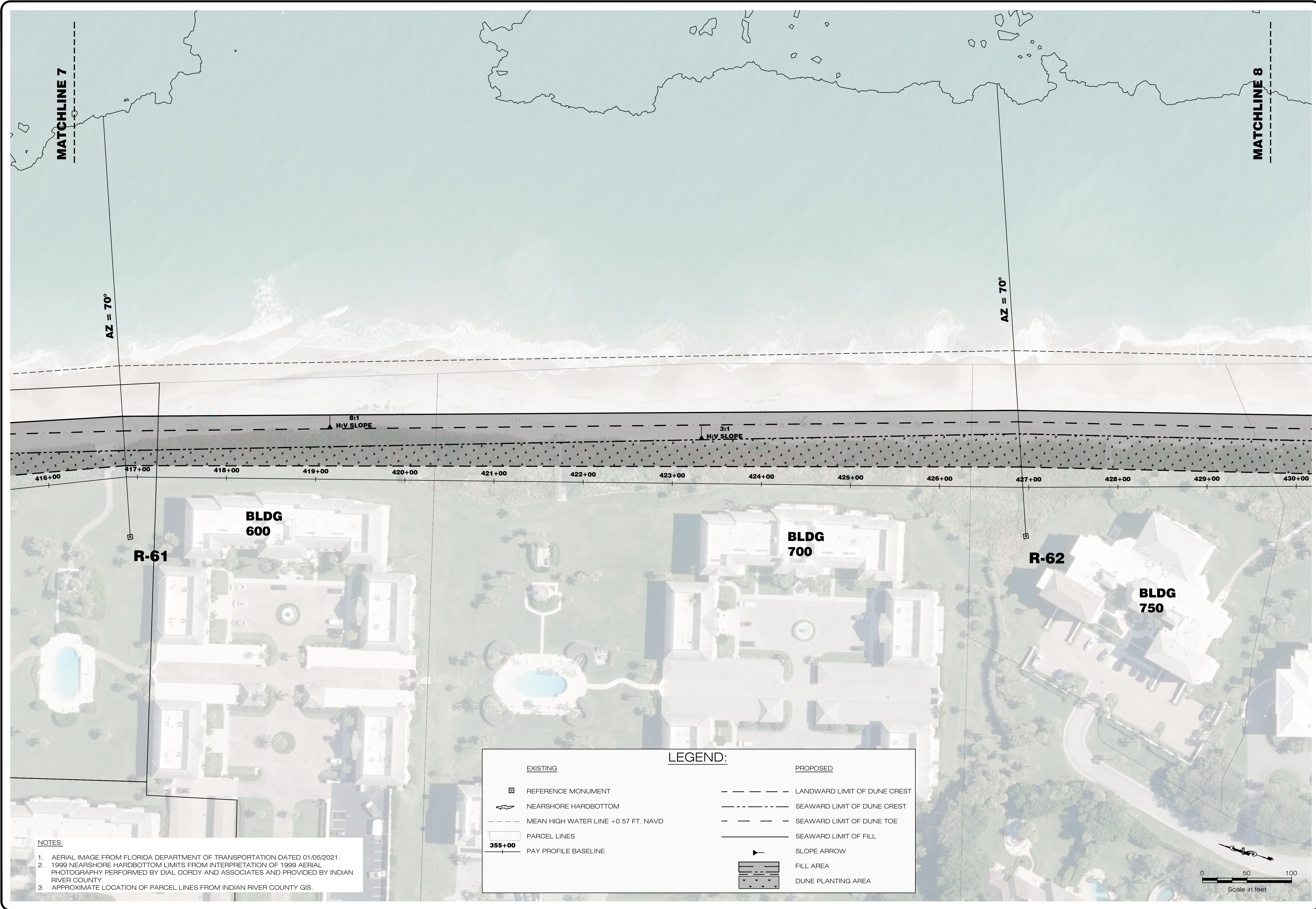
PLAN VIEW - FILL AREA

SECTOR 4 DUNE RENOURISHMENT PROJECT
INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAFTER: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004181.003

SHEET **12**
 OF SHEET 21



NOTES:

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3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

EXISTING		LEGEND:		PROPOSED	
	REFERENCE MONUMENT		LANDWARD LIMIT OF DUNE CREST		SEAWARD LIMIT OF DUNE CREST
	NEARSHORE HARDBOTTOM		SEAWARD LIMIT OF DUNE TOE		SEAWARD LIMIT OF FILL
	MEAN HIGH WATER LINE +0.57 FT. NAVD		SLOPE ARROW		FILL AREA
	PARCEL LINES		DUNE PLANTING AREA		
	PAY PROFILE BASELINE				

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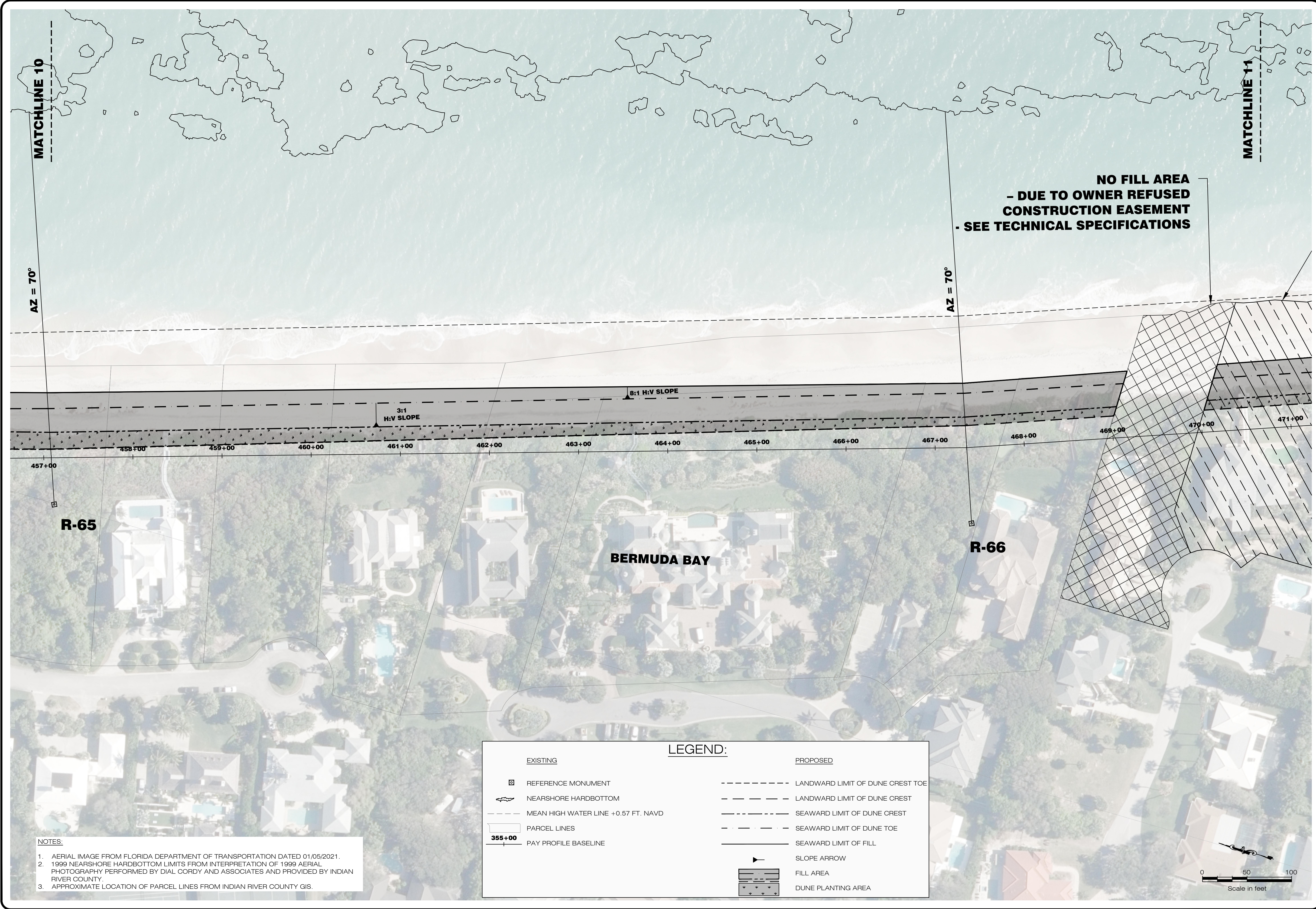
CHARLES T. FONTAINE III, P.E.
 FLORIDA P.E. LICENSE NUMBER 73942

PLAN VIEW - FILL AREA
 SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAWN BY: AON DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004181.003

SHEET 13 OF SHEET 21



NOTES:

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3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

LEGEND:

EXISTING	PROPOSED
REFERENCE MONUMENT	LANDWARD LIMIT OF DUNE CREST TOE
NEARSHORE HARDBOTTOM	LANDWARD LIMIT OF DUNE CREST
MEAN HIGH WATER LINE +0.57 FT. NAVD	SEAWARD LIMIT OF DUNE CREST
PARCEL LINES	SEAWARD LIMIT OF DUNE TOE
PAY PROFILE BASELINE	SEAWARD LIMIT OF FILL
	SLOPE ARROW
	FILL AREA
	DUNE PLANTING AREA

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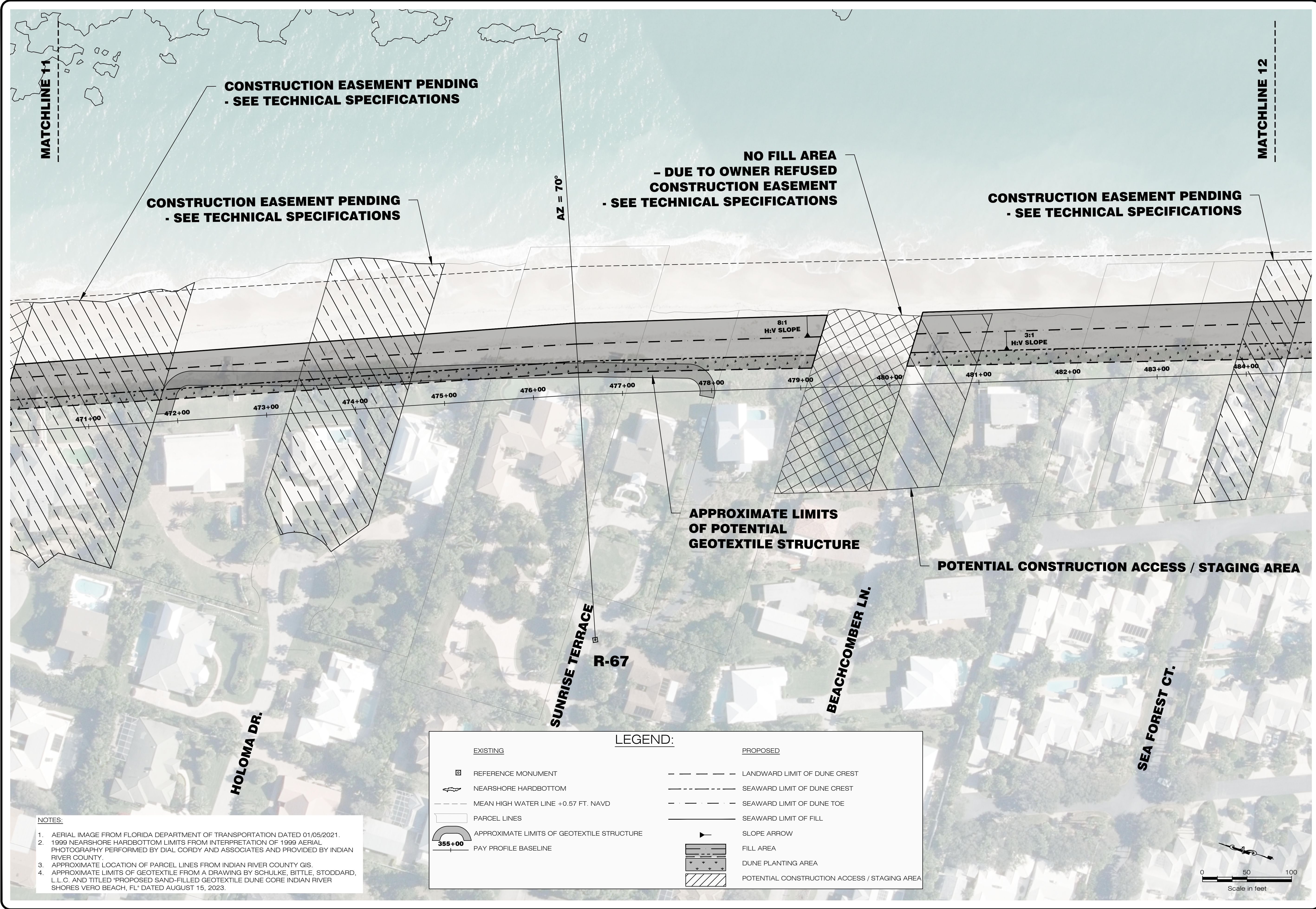
PLAN VIEW - FILL AREA

SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAFTER: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004181.003

SHEET **16**
 OF SHEET 21

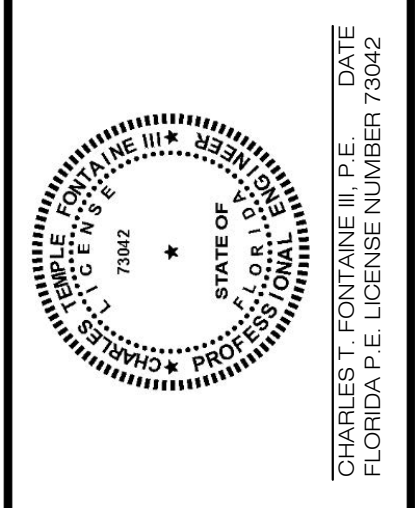


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 3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.
 4. APPROXIMATE LIMITS OF GEOTEXTILE FROM A DRAWING BY SCHULKE, BITTLE, STODDARD, L.L.C. AND TITLED "PROPOSED SAND-FILLED GEOTEXTILE DUNE CORE INDIAN RIVER SHORES VERO BEACH, FL" DATED AUGUST 15, 2023.

LEGEND:

EXISTING	PROPOSED
REFERENCE MONUMENT	LANDWARD LIMIT OF DUNE CREST
NEARSHORE HARDBOTTOM	SEAWARD LIMIT OF DUNE CREST
MEAN HIGH WATER LINE +0.57 FT. NAVD	SEAWARD LIMIT OF DUNE TOE
PARCEL LINES	SEAWARD LIMIT OF FILL
APPROXIMATE LIMITS OF GEOTEXTILE STRUCTURE	SLOPE ARROW
PAY PROFILE BASELINE	FILL AREA
	DUNE PLANTING AREA
	POTENTIAL CONSTRUCTION ACCESS / STAGING AREA

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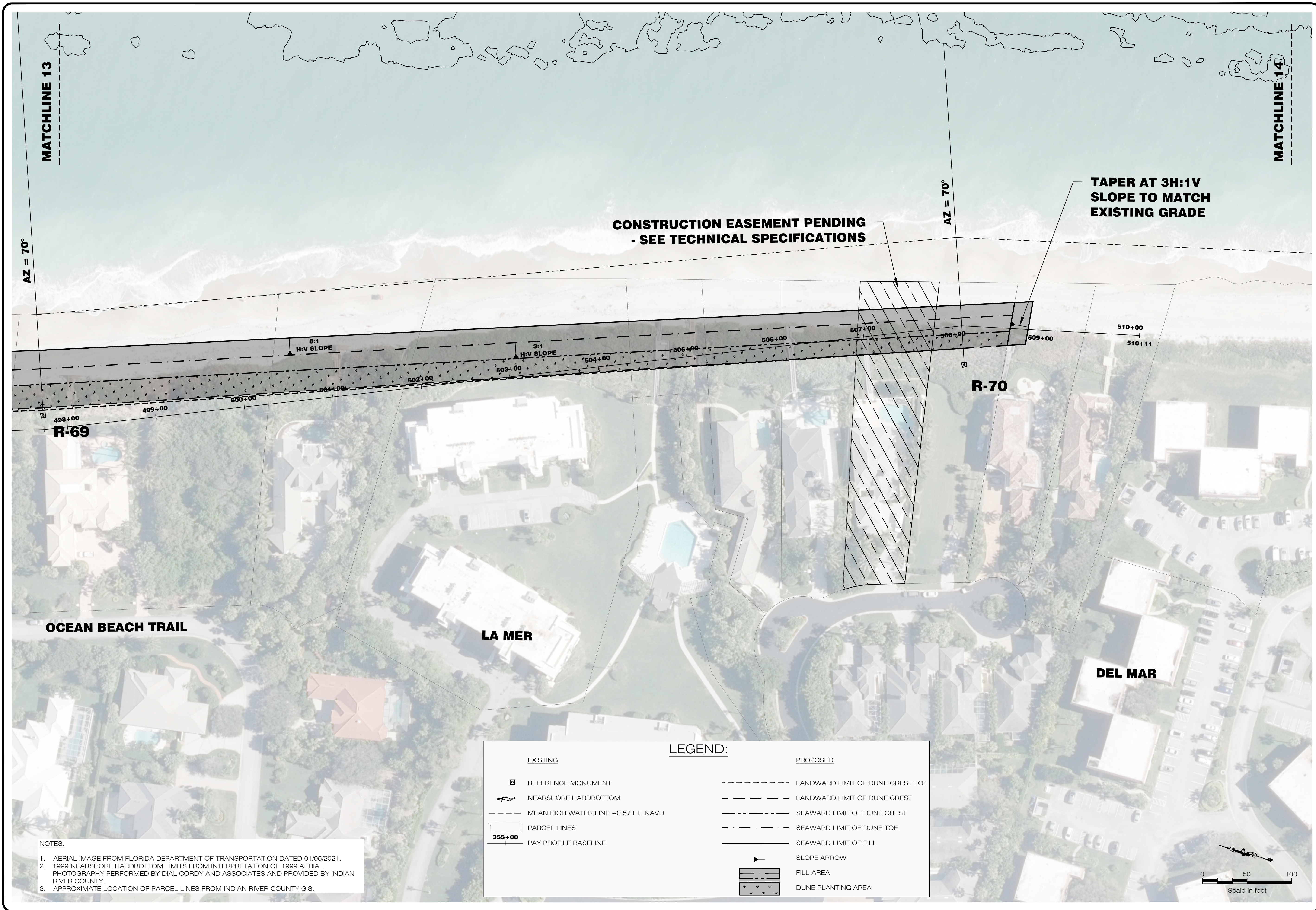


PLAN VIEW - FILL AREA
 SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAWN BY: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004161.003

SHEET 17 OF SHEET 21



MATCHLINE 13

MATCHLINE 14

**CONSTRUCTION EASEMENT PENDING
- SEE TECHNICAL SPECIFICATIONS**

**TAPER AT 3H:1V
SLOPE TO MATCH
EXISTING GRADE**

AZ = 70°

AZ = 70°

R-69

R-70

OCEAN BEACH TRAIL

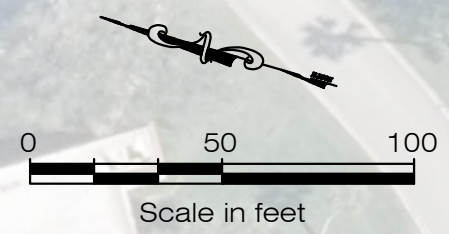
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NOTES:
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 3. APPROXIMATE LOCATION OF PARCEL LINES FROM INDIAN RIVER COUNTY GIS.

LEGEND:

EXISTING	PROPOSED
REFERENCE MONUMENT	LANDWARD LIMIT OF DUNE CREST TOE
NEARSHORE HARDBOTTOM	LANDWARD LIMIT OF DUNE CREST
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PARCEL LINES	SEAWARD LIMIT OF DUNE TOE
PAY PROFILE BASELINE	SEAWARD LIMIT OF FILL
	SLOPE ARROW
	FILL AREA
	DUNE PLANTING AREA



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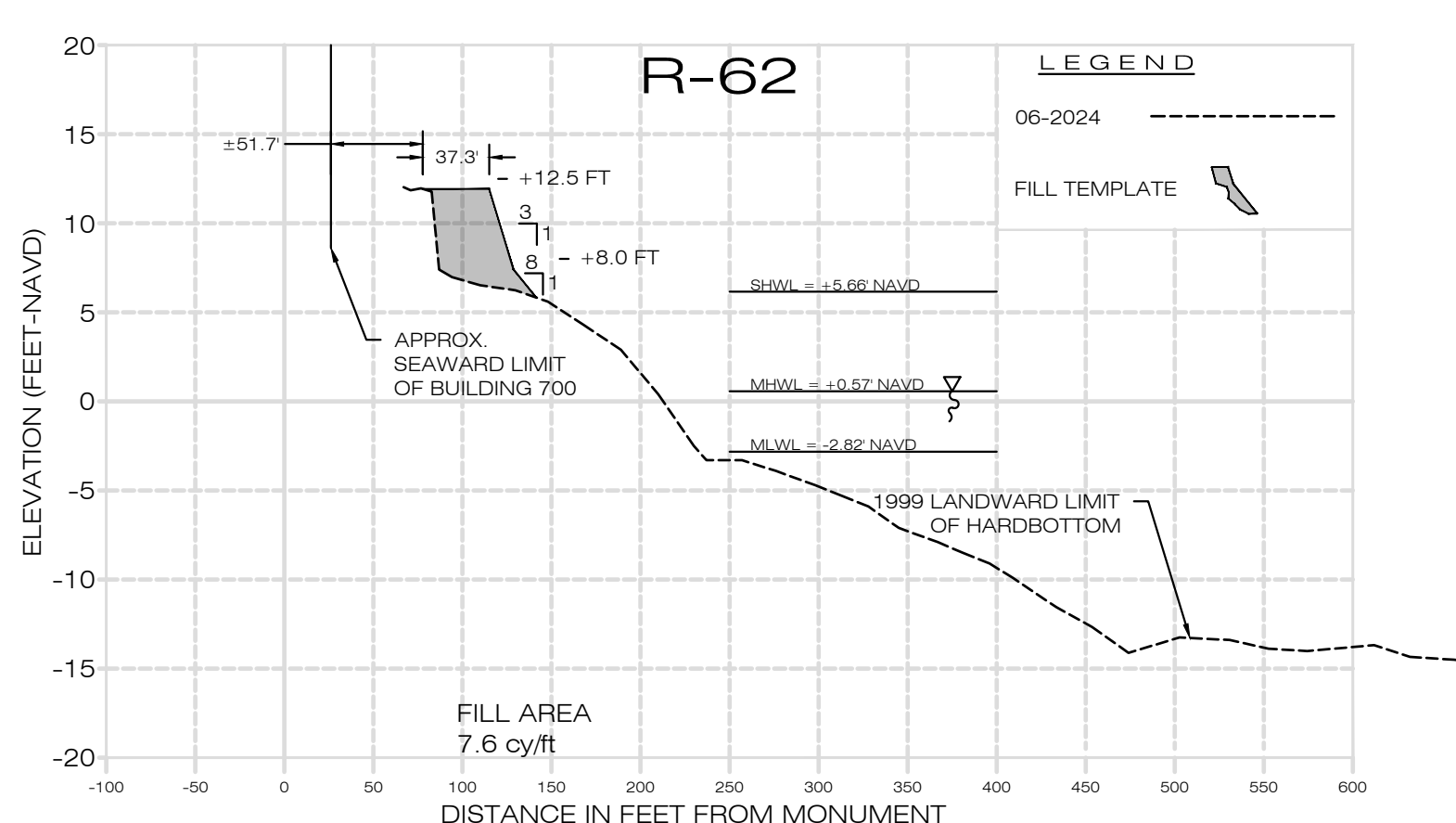
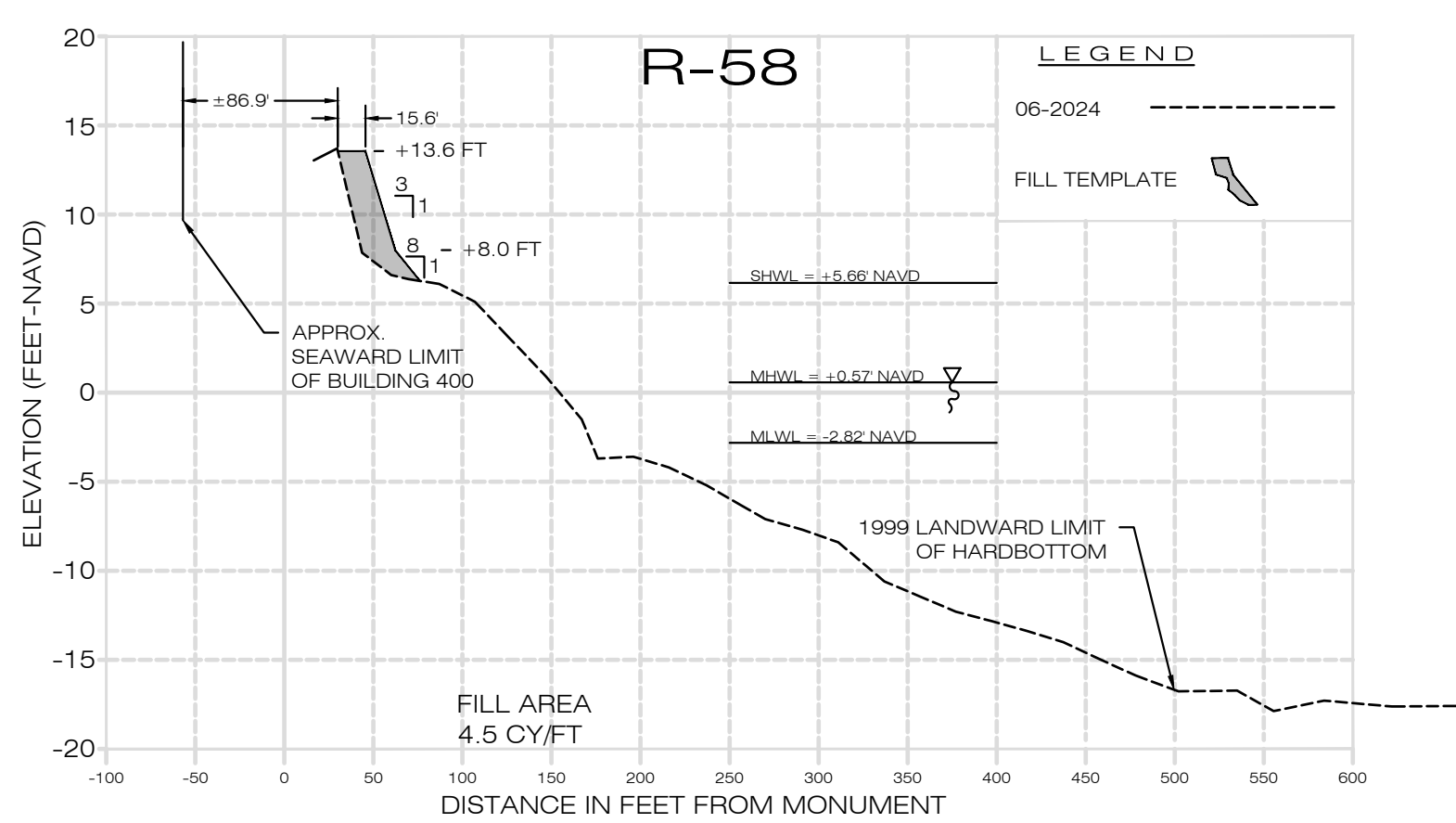
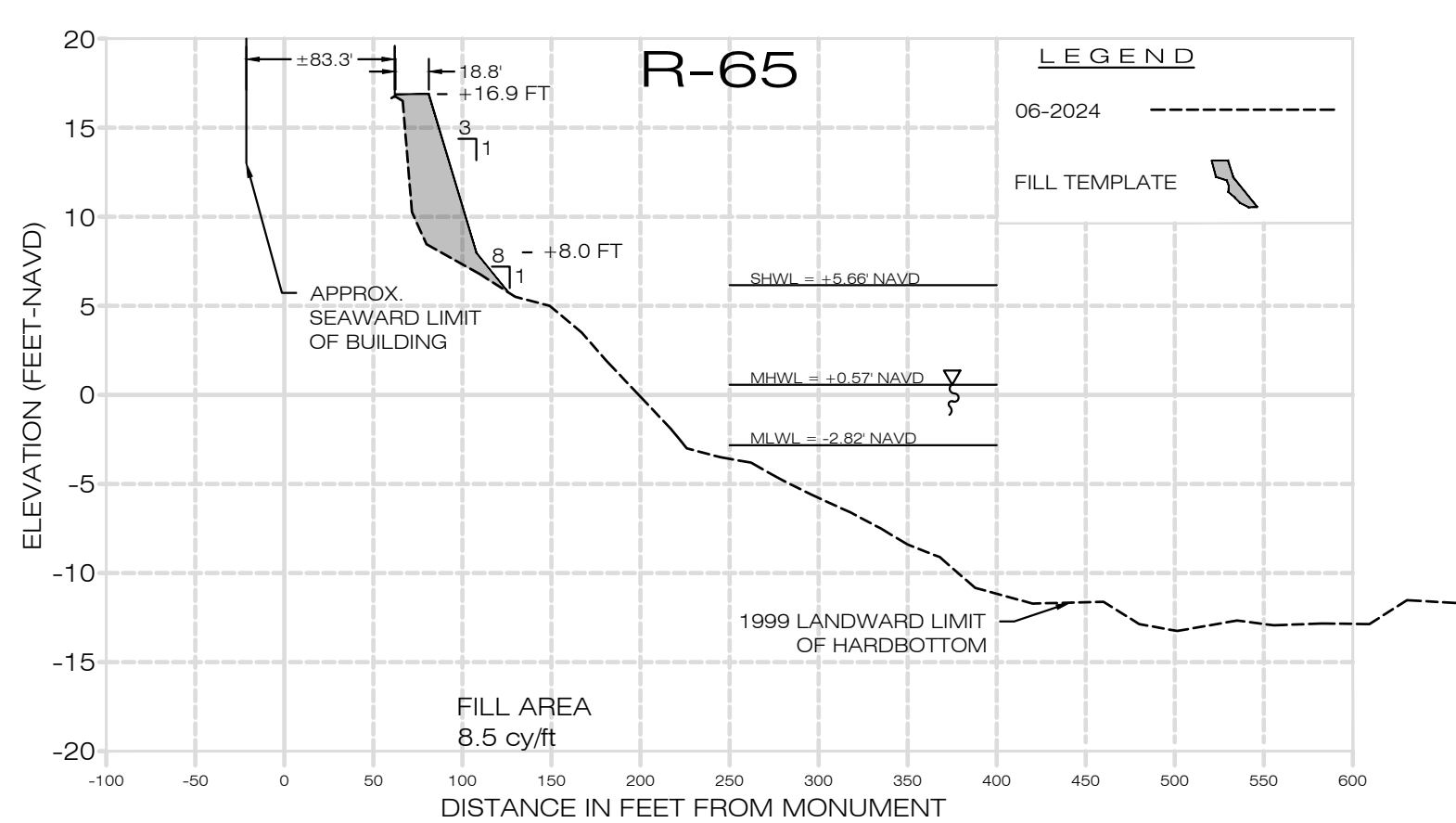
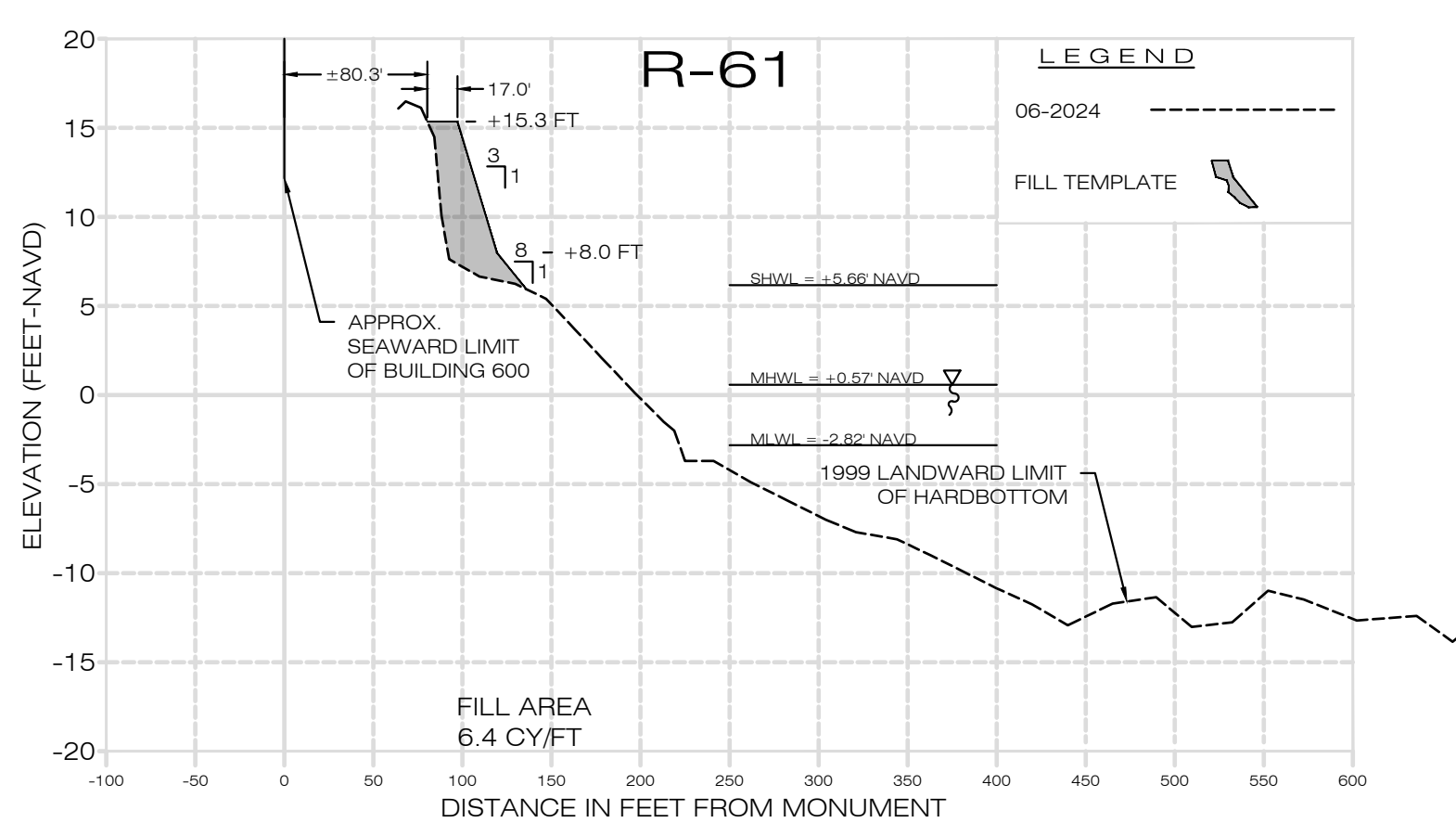
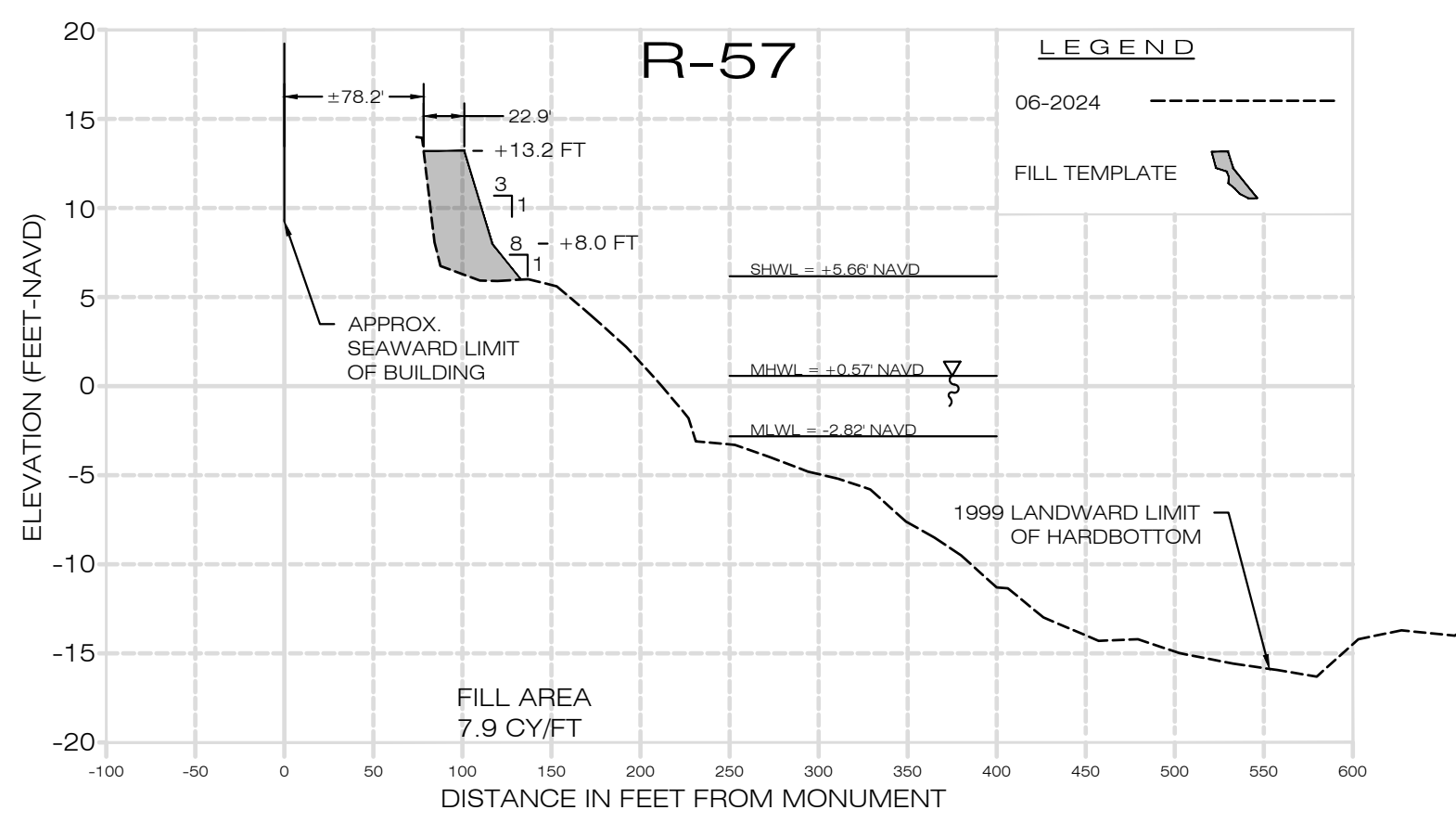
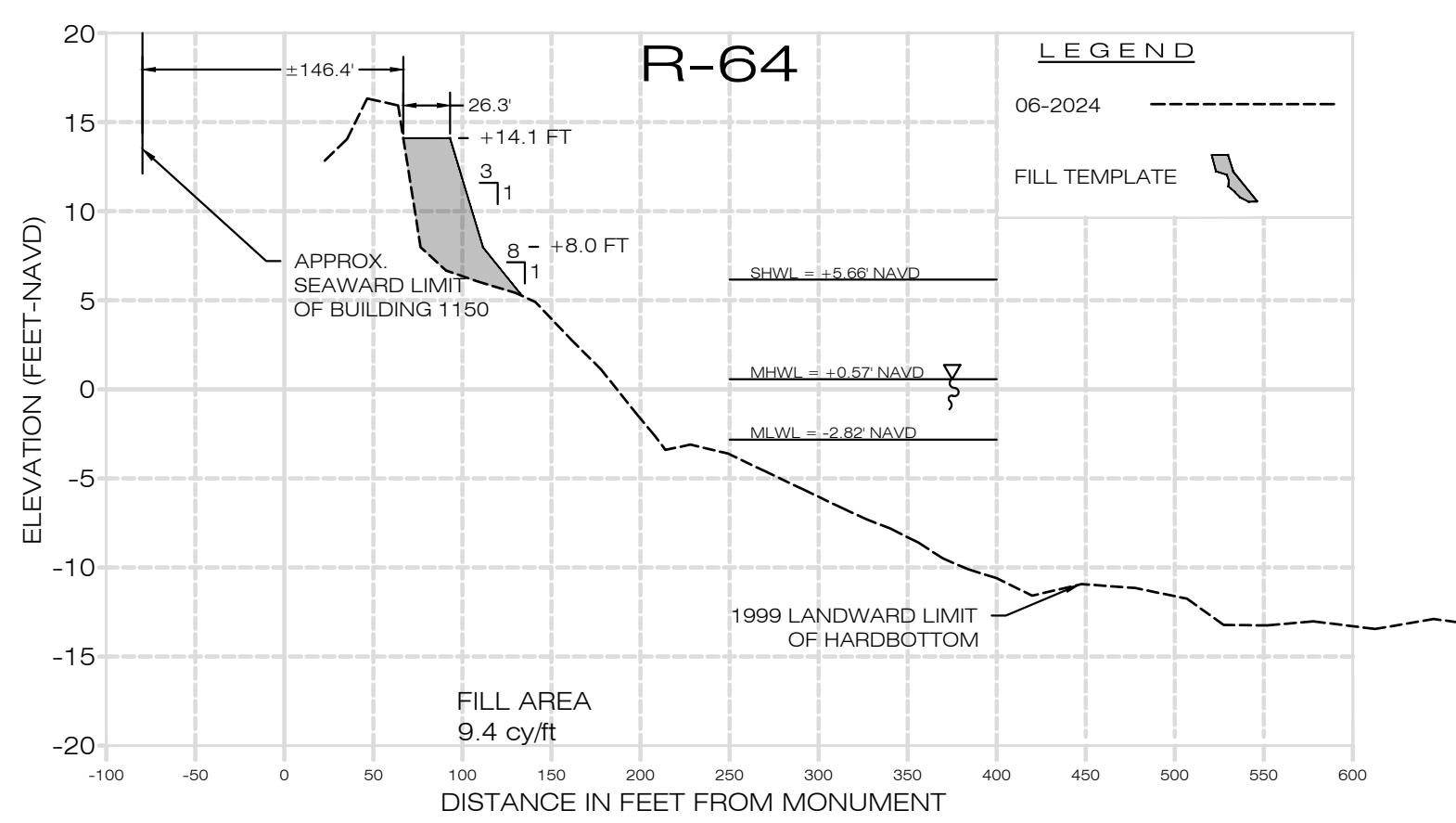
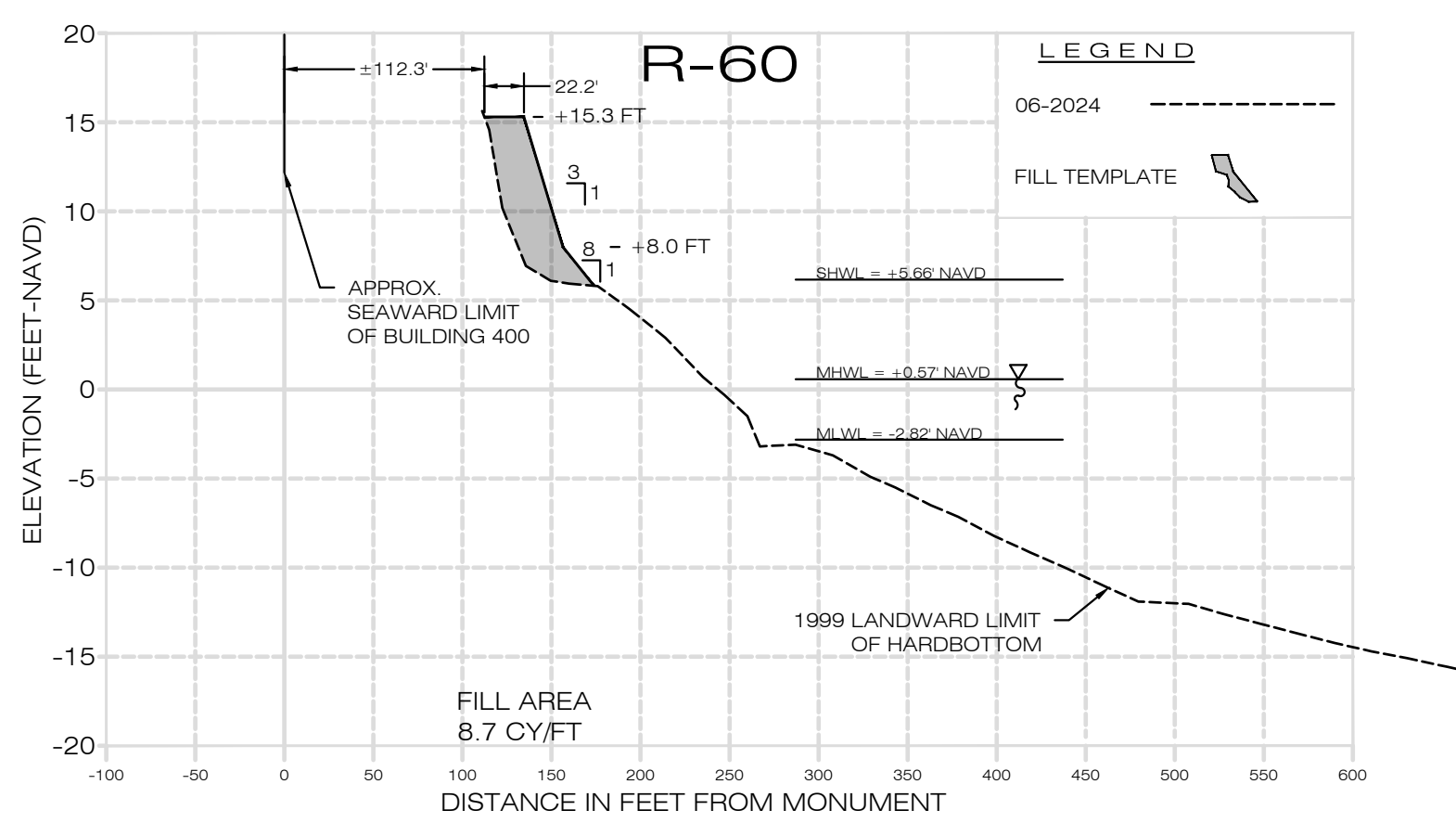
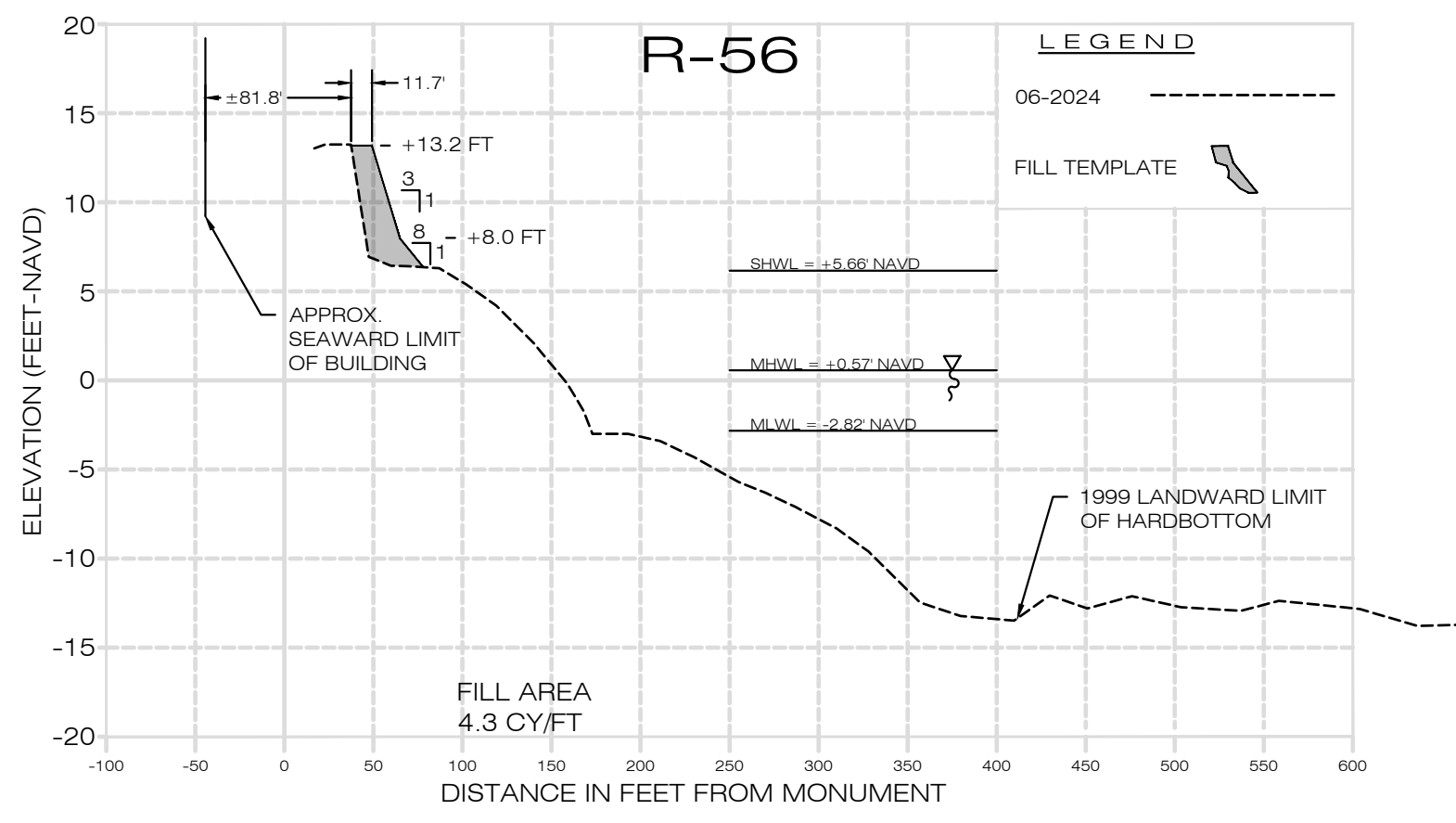
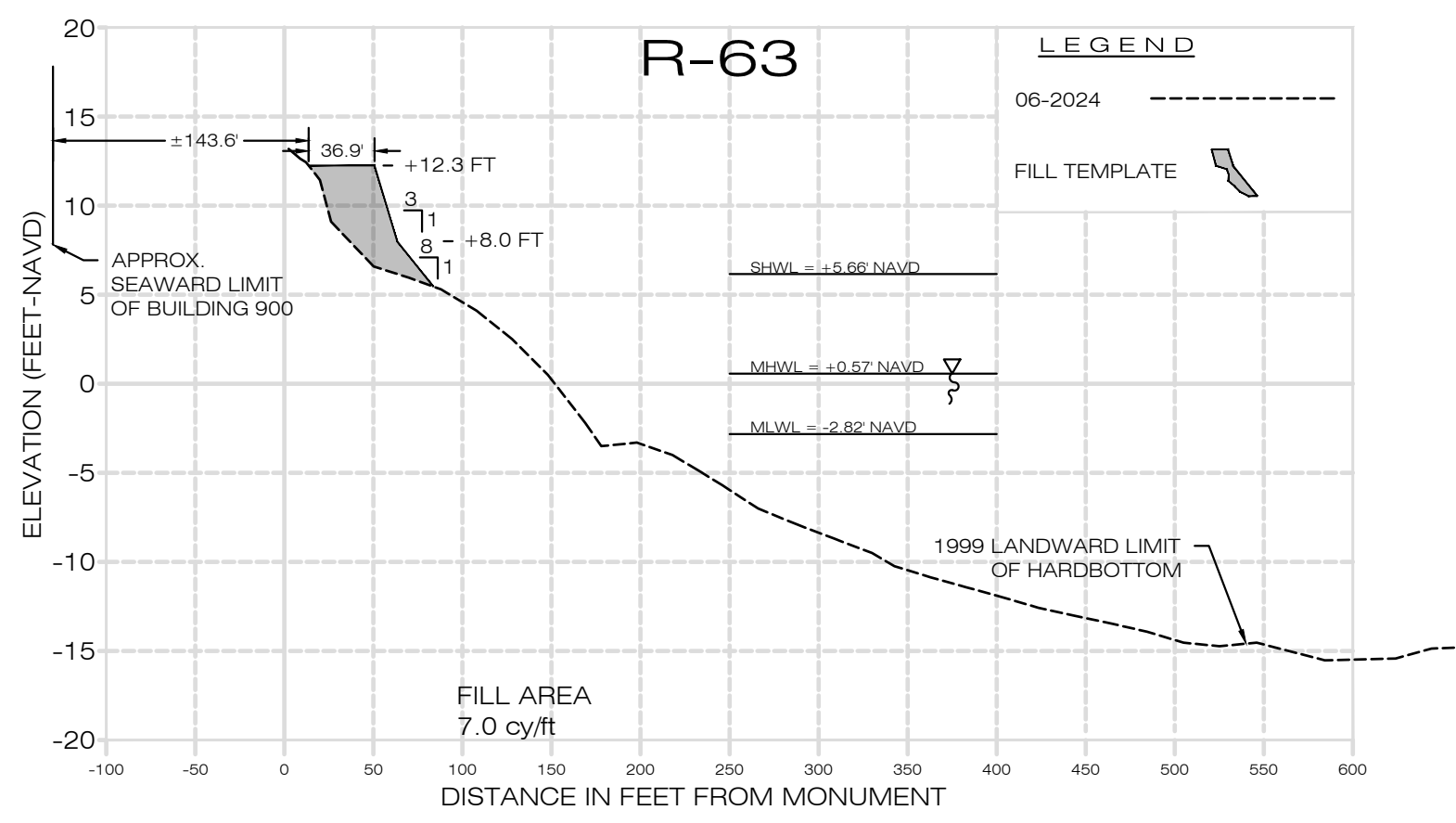
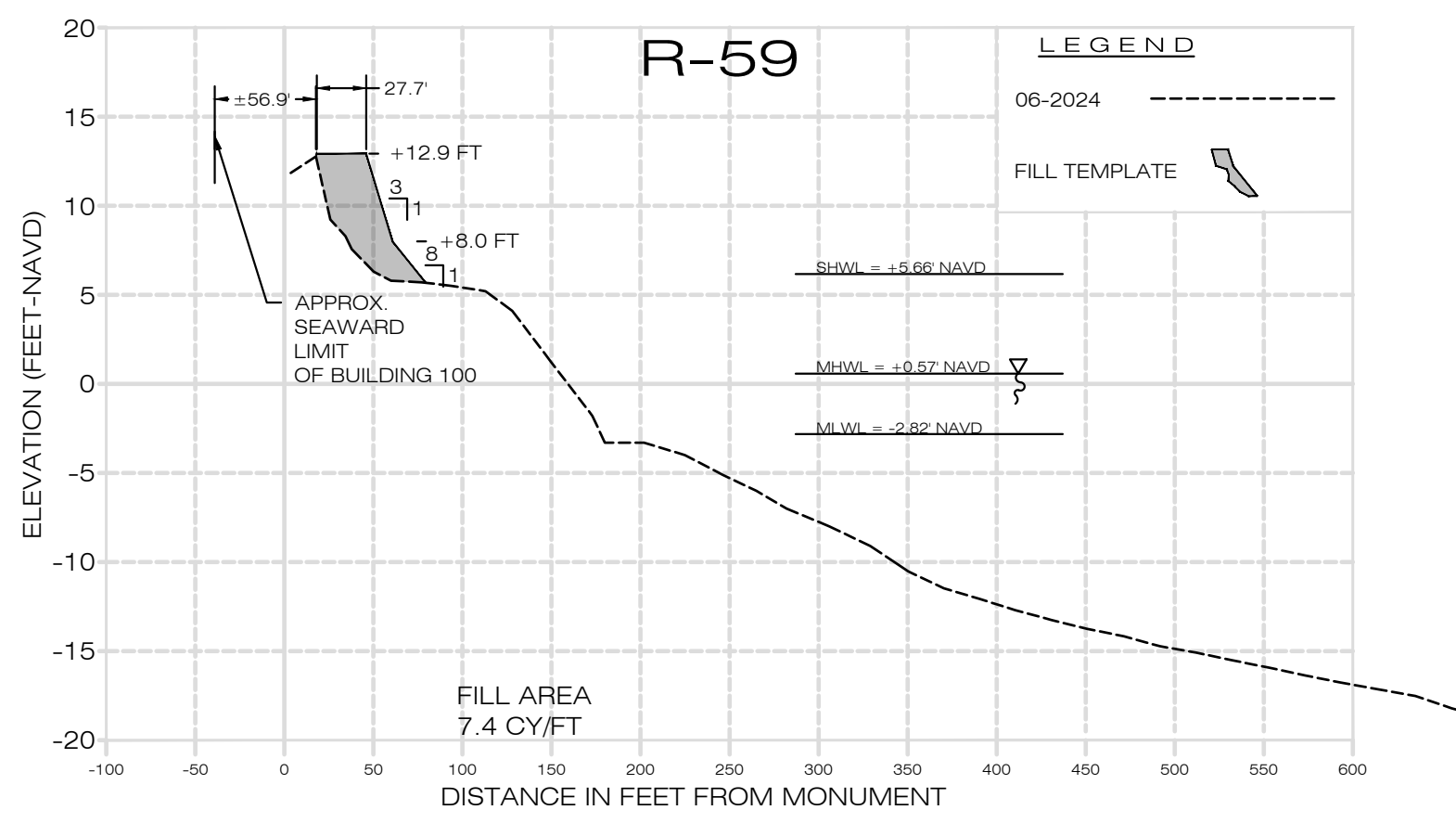
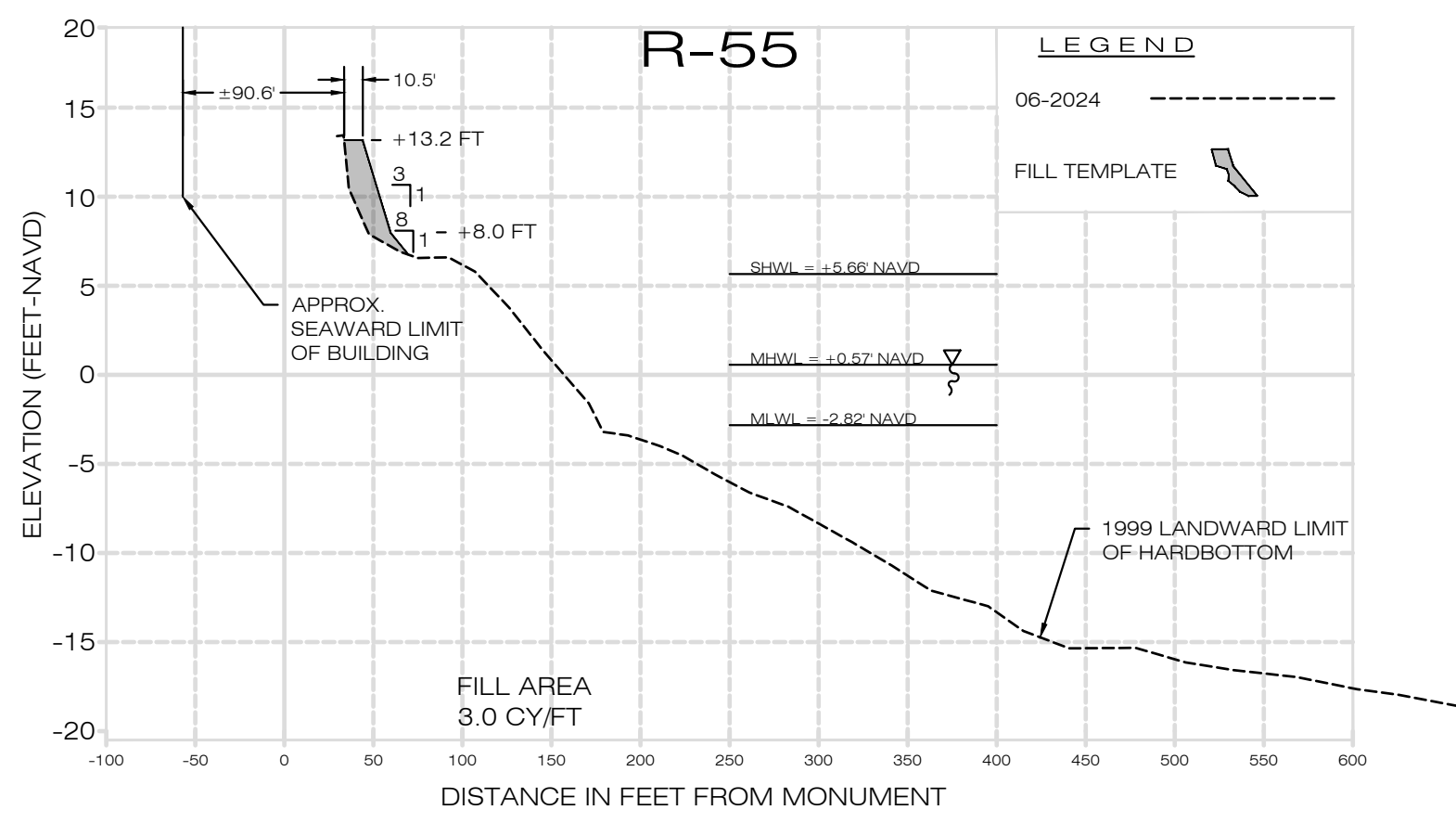
CHARLES T. FONTAINE III, P.E. DATE: 07/12/2024
 FLORIDA P.E. LICENSE NUMBER 73042

PLAN VIEW - FILL AREA
 SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

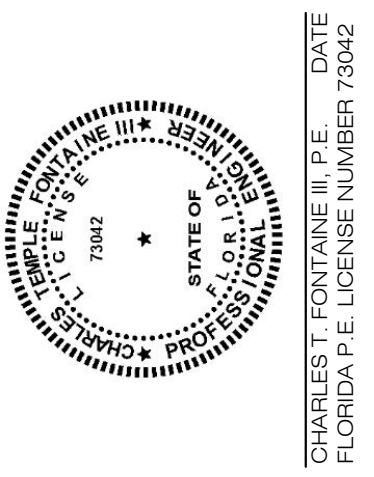
REV.	DATE	NOTES

DRAFTER: AGN DATE DRAWN: 07/12/2024
 CHECKED BY: MPW
 PROJECT NO.: 1004161.003

SHEET 10
 OF SHEET 21



NOTES:
 1. SURVEY DATA SEPTEMBER 2022, JUNE 2023, AND JUNE 2024 FROM MORGAN & EKUND.
 2. MEAN HIGH WATER AND MEAN LOW WATER ARE ELEVATIONS FROM LABINS' TIDE INTERPOLATION POINT 101028'.



PROFILES - FILL TEMPLATE
 SECTOR 4 DUNE RENOURISHMENT PROJECT
 INDIAN RIVER COUNTY

REV.	DATE	NOTES

DRAFTER: AGN DATE DRAWN: 07/12/2024
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