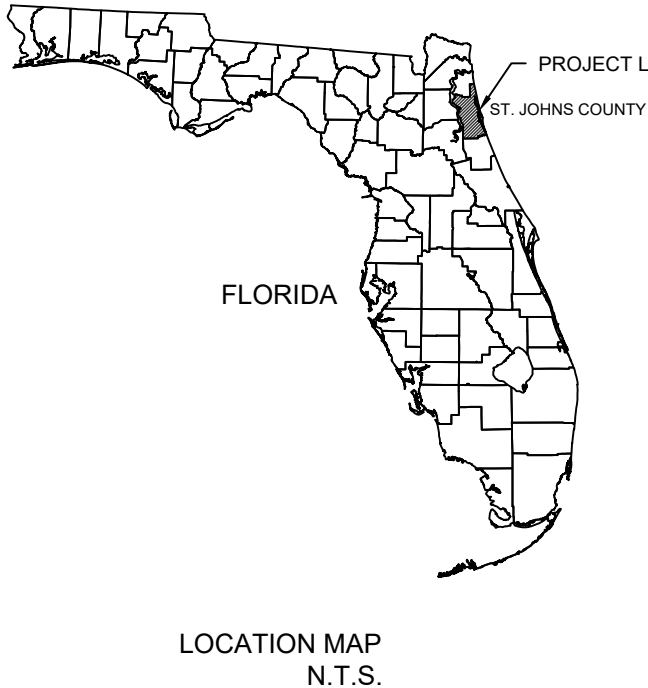


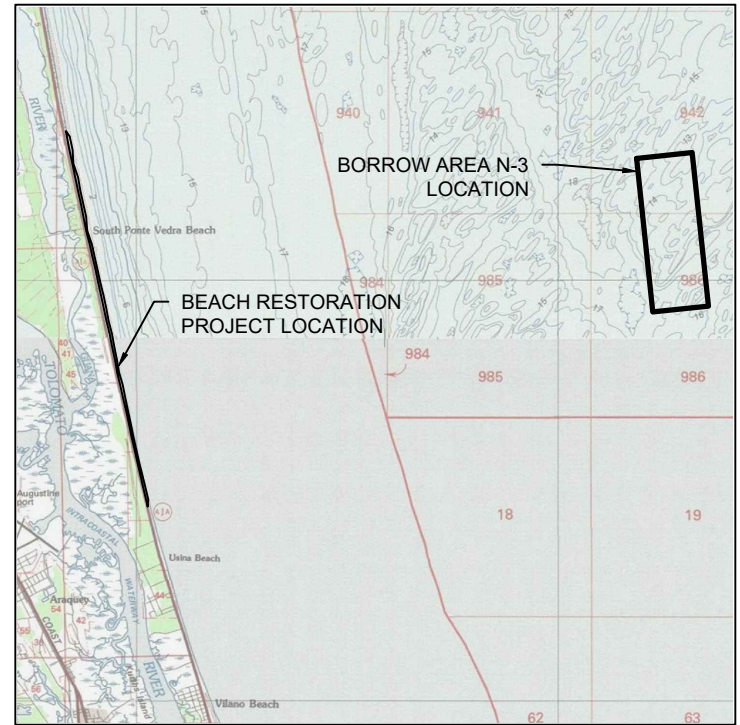
SOUTH PONTE VEDRA BEACH RESTORATION

ST. JOHNS COUNTY, FLORIDA



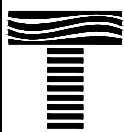
DRAWING INDEX

- C-1 TITLE SHEET
- C-2 GENERAL NOTES AND TYPICAL SECTION
- C-3 PROJECT OVERVIEW
- C-4 BEACH PLANS
- C-5 BEACH PLANS
- C-6 BEACH PLANS
- C-7 BEACH PLANS
- C-8 BEACH PLANS
- C-9 BEACH PLANS
- C-10 BEACH PLANS
- C-11 BEACH PLANS
- C-12 BEACH PLANS
- C-13 BEACH CROSS-SECTIONS
- C-14 BEACH CROSS-SECTIONS
- C-15 BEACH CROSS-SECTIONS
- C-16 BORROW AREA N-3 PLAN
- C-17 BORROW AREA N-3 CROSS-SECTIONS
- C-18 BORROW AREA N-3 CROSS-SECTIONS



VICINITY MAP

1"= 15,000'



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-1
TITLE SHEET
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	1 of 18
DATE	JAN 2020

SEAL

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MICHAEL E. TRUDNAK P.E. # 58200

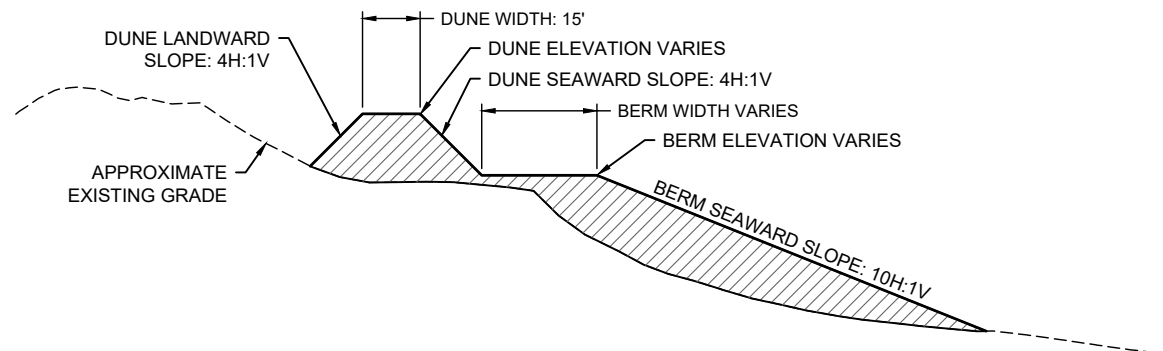
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GENERAL NOTES - BEACH RESTORATION:

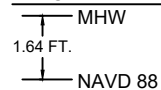
1. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88).
2. ALL COORDINATES REFERENCE STATE PLANE FLORIDA EAST NAD 83.
3. EXISTING BEACH GRADE SURVEYED JUL-AUG 2019 (R-80 TO R-104) BY DEGROVE SURVEYORS AND NOV 2019 (R-76 TO R-79) BY MORGAN & EKLUND.
4. CONSTRUCTION TEMPLATE DESIGNED WITH THE FOLLOWING FEATURES

DESIGN FEATURE		R-76 TO R-79	R-80 TO R-83	R-84 TO R-101	R-102 TO T-104
DUNE	ELEVATION	15 FT NAVD	15 FT NAVD	14 FT NAVD	16 FT NAVD
	CREST WIDTH	15 FT	15 FT	15 FT	15 FT
	SEAWARD SLOPE	4H:1V	4H:1V	4H:1V	4H:1V
BERM	ELEVATION	12 FT NAVD	11 FT NAVD	10 FT NAVD	10 FT NAVD
	WIDTH	30 FT	30 FT	30 FT	40 FT
	SEAWARD SLOPE	10H:1V	10H:1V	10H:1V	10H:1V

5. DUNE RESTORATION INCLUDES ONE REACH EXTENDING FROM FDEP REFERENCE MONUMENT R-76 TO T-104.
6. AERIALS OBTAINED FROM TAYLOR ENGINEERING, 2019, UNLESS NOTED OTHERWISE. AERIAL REFERENCE SHOWN IS FOR VISUAL REFERENCE AND MAY NOT REPRESENT CURRENT CONDITIONS.

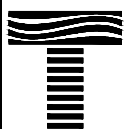


DATUM REFERENCE:



TYPICAL BEACH FILL SECTION

NOT TO SCALE



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
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REGISTRY # 4815

FIGURE C-2
GENERAL NOTES AND TYPICAL SECTION
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	2 of 18
DATE	JAN 2020

SEAL

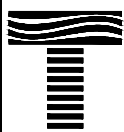
DRAFT

MICHAEL E. TRUDNAK P.E. # 58200

DATE

ANTON FLEVELLING X:\SYS\PROJECTS\C2018-055-02_ST.JOHN'S_BEACH\PERMIT\C2018-055-P-PROJECT OVERVIEW.DWG 1/9/2020 11:33:36 AM

MONUMENT TABLE		
POINT	EASTING	NORTHING
R076	552333.33	2075761.23
R077	552544.79	2074717.61
T078	552749.38	2073673.59
R079	552986.84	2072587.46
R080	553221.69	2071589.43
R081	553451.43	2070504.14
R082	553687.17	2069511.51
R083	553869.00	2068459.47
R084	554120.03	2067396.82
R085	554356.02	2066379.28
R086	554556.60	2065377.36
R087	554819.38	2064355.48
R088	555042.04	2063334.80
R089	555233.72	2062398.22
R090	555472.62	2061397.66
R091	555664.56	2060368.98
R092	555876.17	2059333.59
R093	556112.12	2058361.01
R094	556301.45	2057355.72
R095	556495.90	2056383.43
R096	556760.02	2055374.38
R097	557002.40	2054378.39
R098	557200.08	2053382.52
R099	557425.03	2052355.00
R100	557661.96	2051340.16
R101	557879.74	2050324.66
R102	558103.42	2049348.97
R103	558321.91	2048381.47
T104	558557.68	2047420.02



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
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REGISTRY # 4815

FIGURE C-3
PROJECT OVERVIEW
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	3 of 18
DATE	JAN 2020

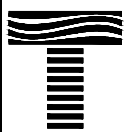
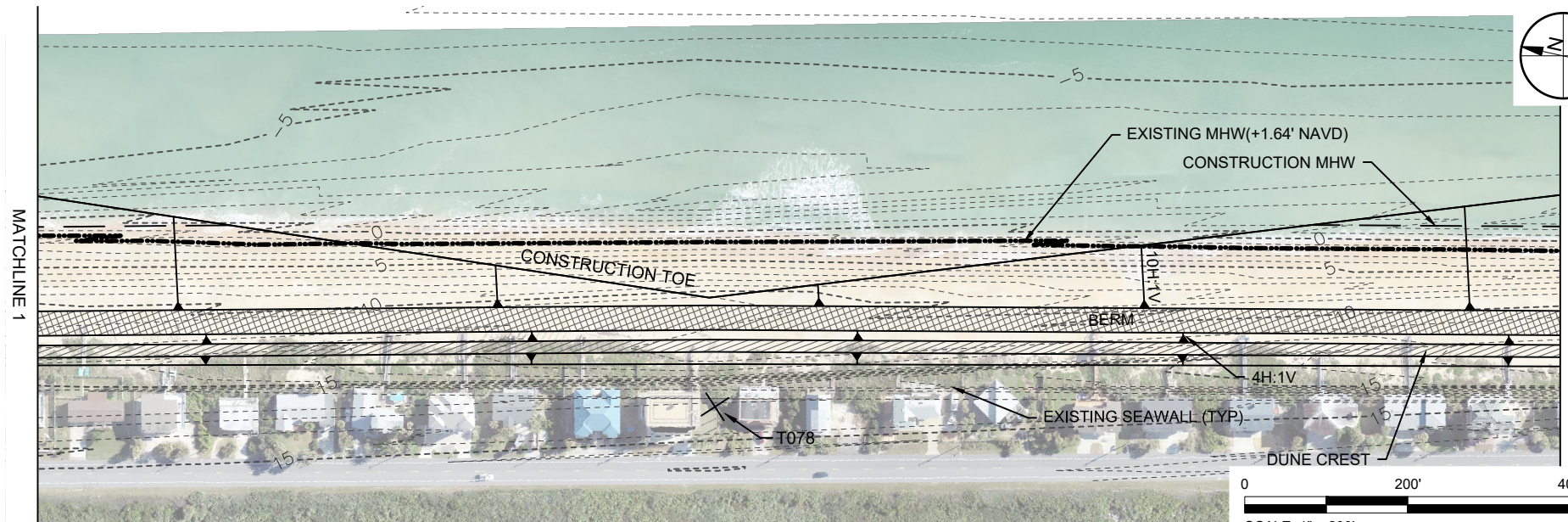
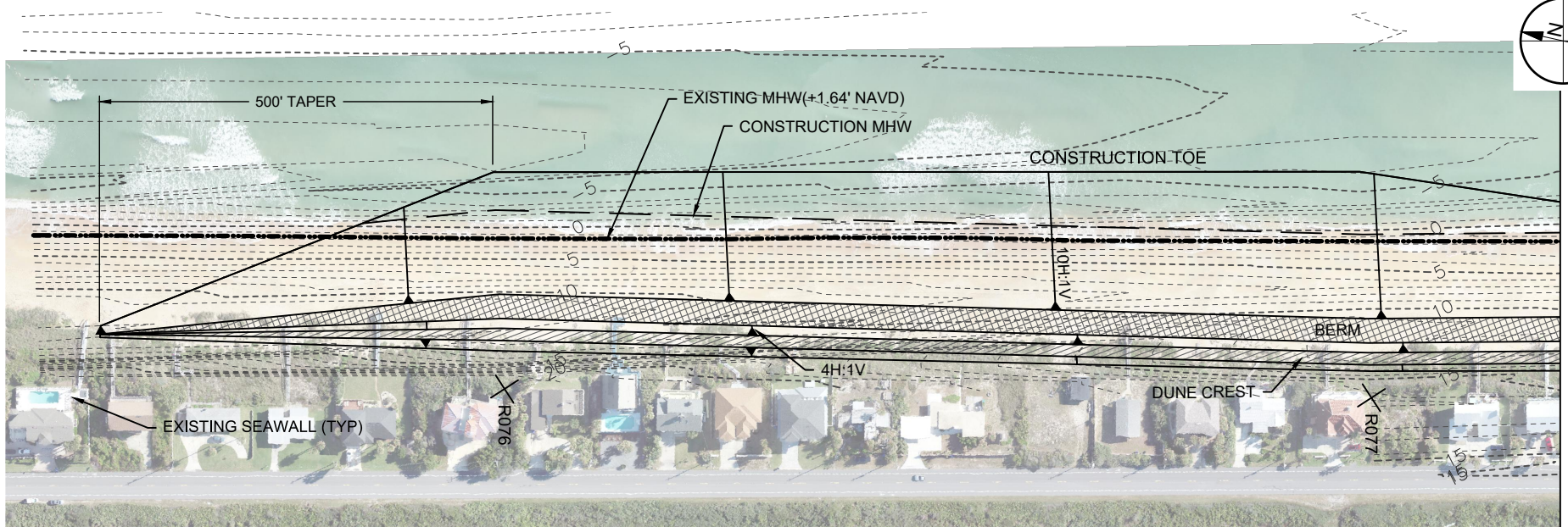
SEAL

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MICHAEL E. TRUDNAK P.E. # 58200

DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-4
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	4 of 18
DATE	JAN 2020

SEAL

DRAFT

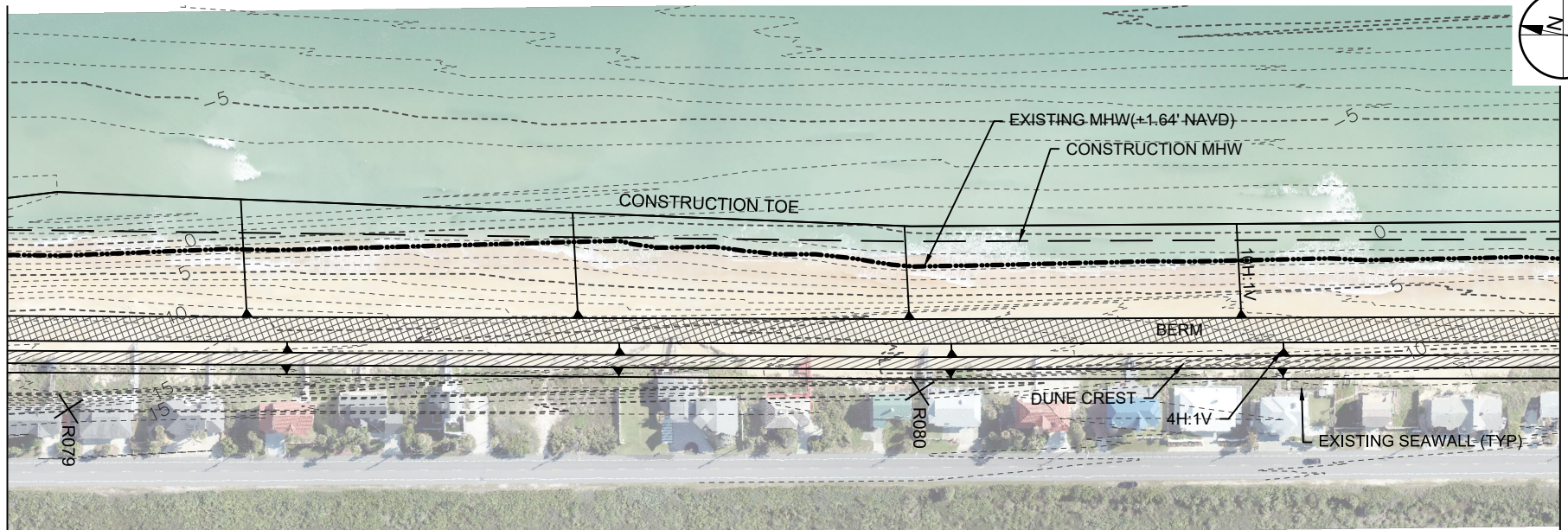
MICHAEL E. TRUDNAK P.E. # 58200

DATE

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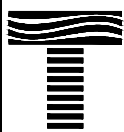
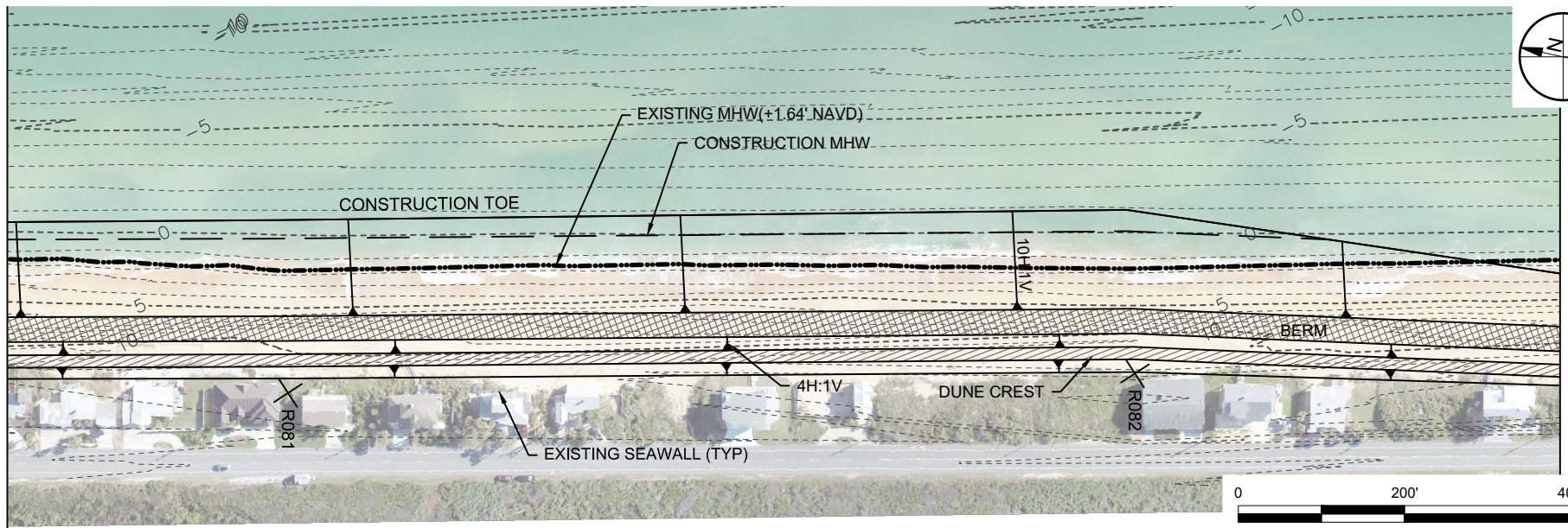
MATCHLINE 2

MATCHLINE 3



MATCHLINE 3

MATCHLINE 4



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-5
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

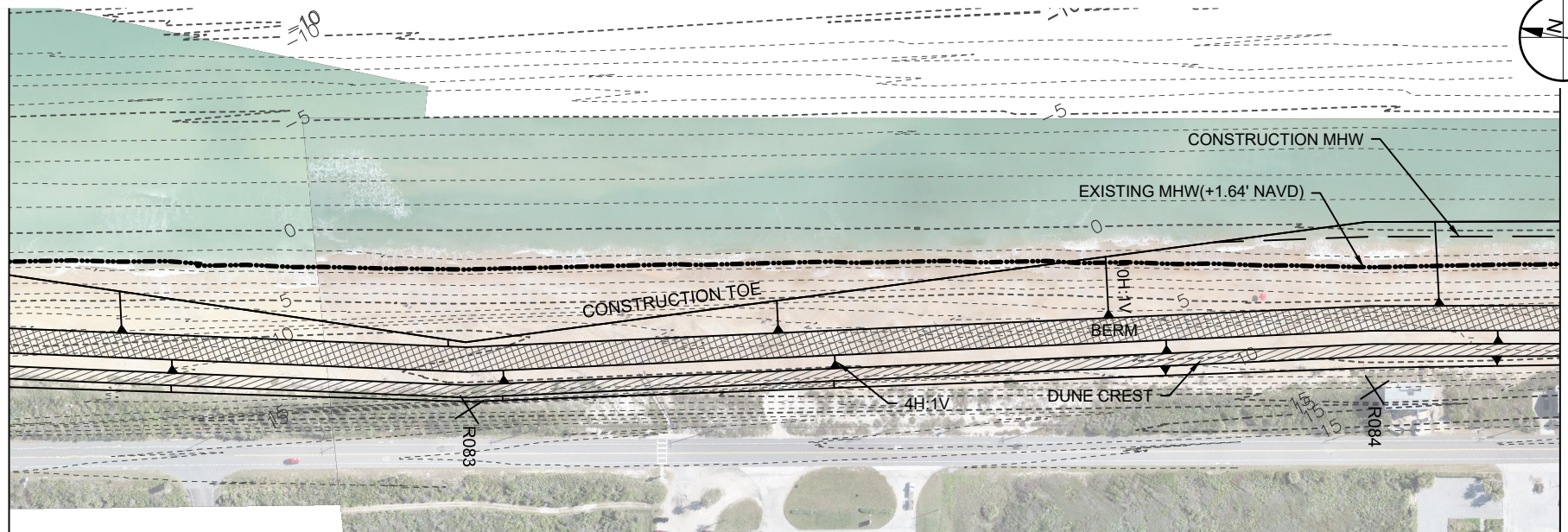
PROJECT	C2018-055
DRAWN BY	AF
SHEET	5 of 18
DATE	JAN 2020

SEAL	
DRAFT	
MICHAEL E. TRUDNAK P.E. # 58200	DATE

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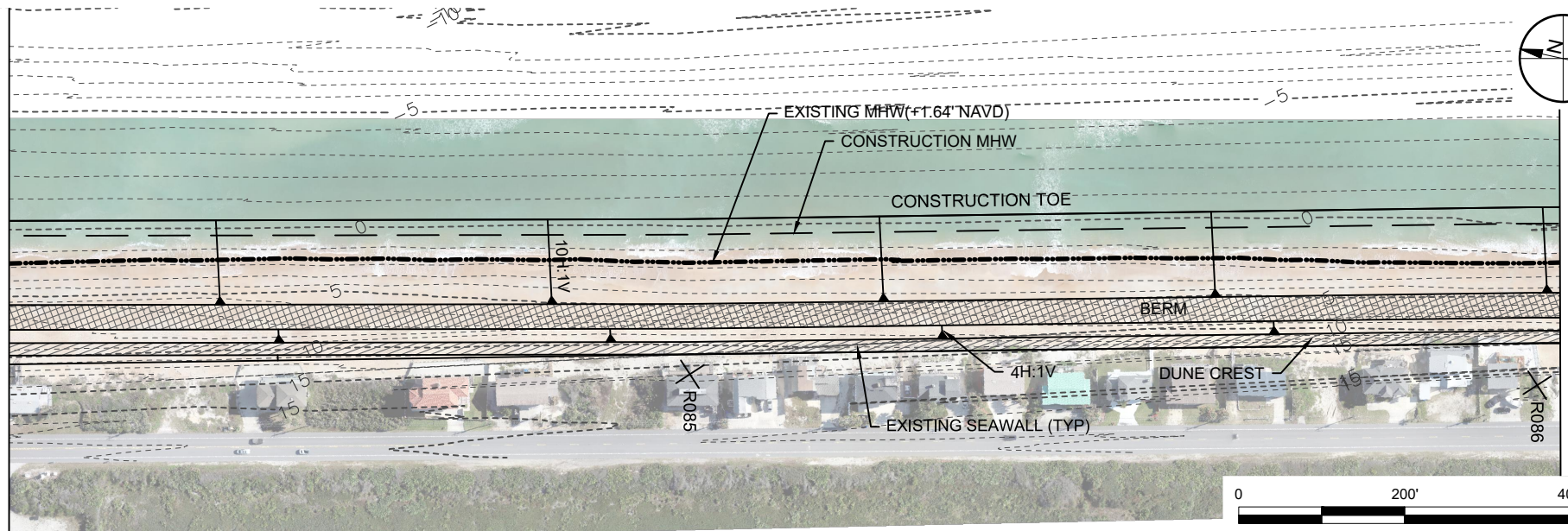
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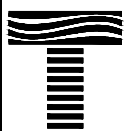


MATCHLINE 5

MATCHLINE 5



MATCHLINE 6



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-6
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

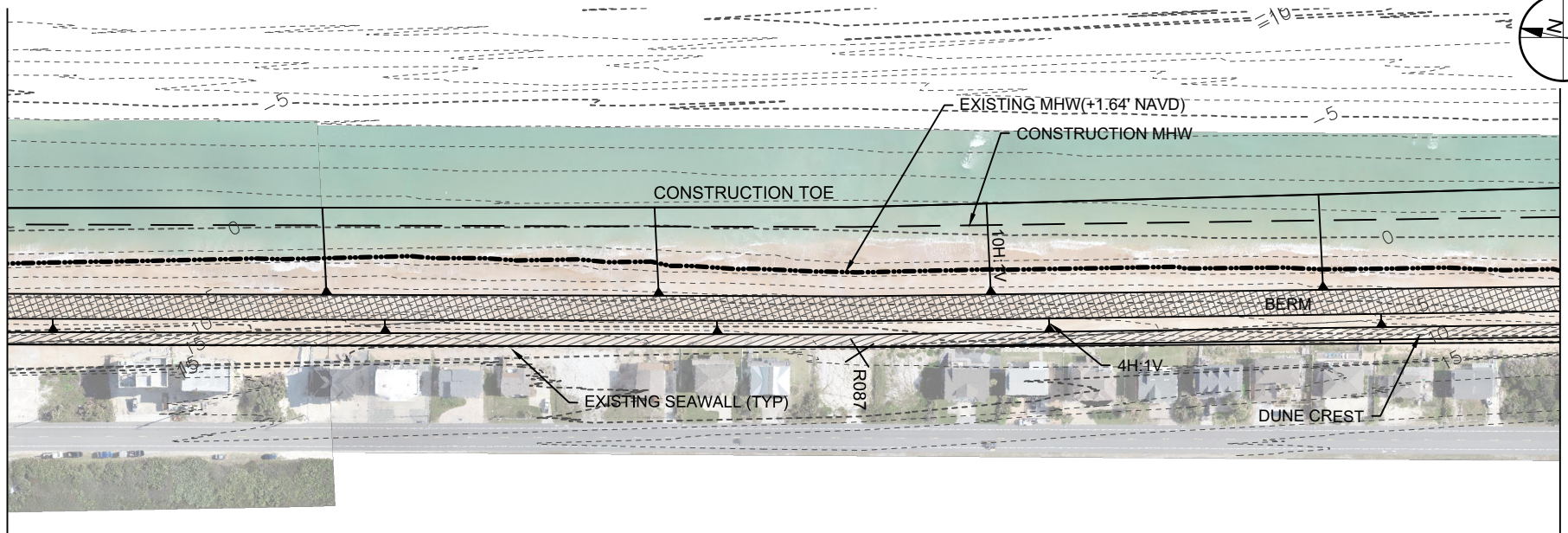
PROJECT	C2018-055
DRAWN BY	AF
SHEET	6 of 18
DATE	JAN 2020

SEAL	DRAFT
MICHAEL E. TRUDNAK P.E. # 58200	
DATE	

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

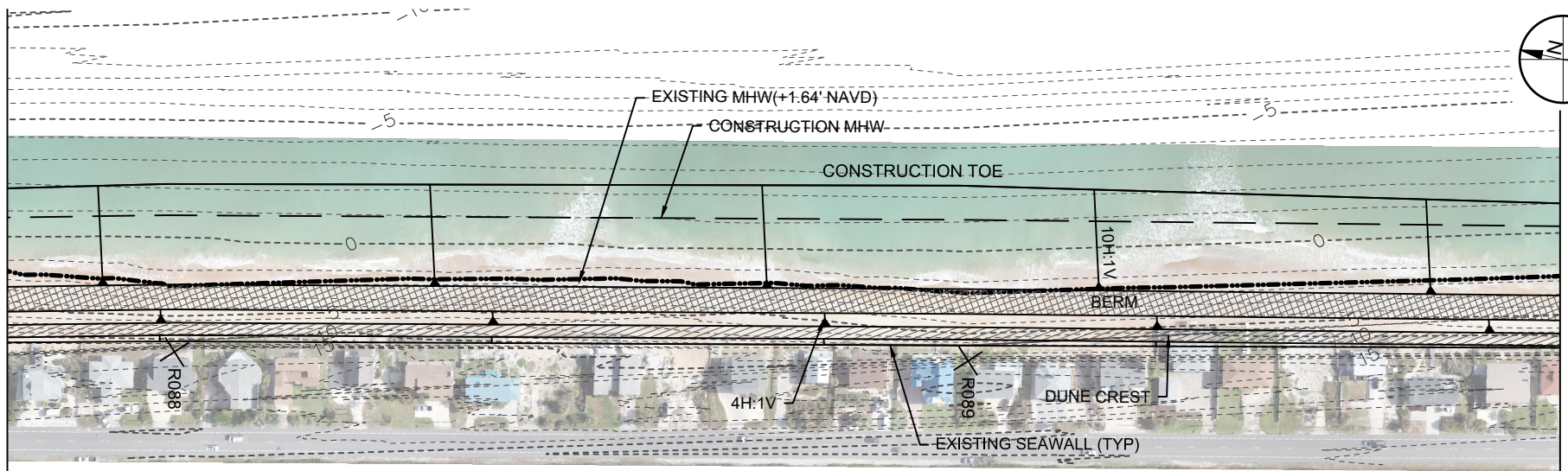
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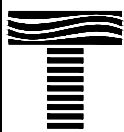


MATCHLINE 7

MATCHLINE 7



MATCHLINE 8



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SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-7
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	7 of 18
DATE	JAN 2020

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MICHAEL E. TRUDNAK P.E. # 58200	DATE

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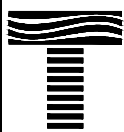
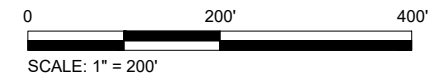
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MATCHLINE 8

MATCHLINE 9

MATCHLINE 9

MATCHLINE 10



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-8
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	8 of 18
DATE	JAN 2020

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DRAFT	
MICHAEL E. TRUDNAK P.E. # 58200	DATE

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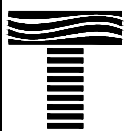
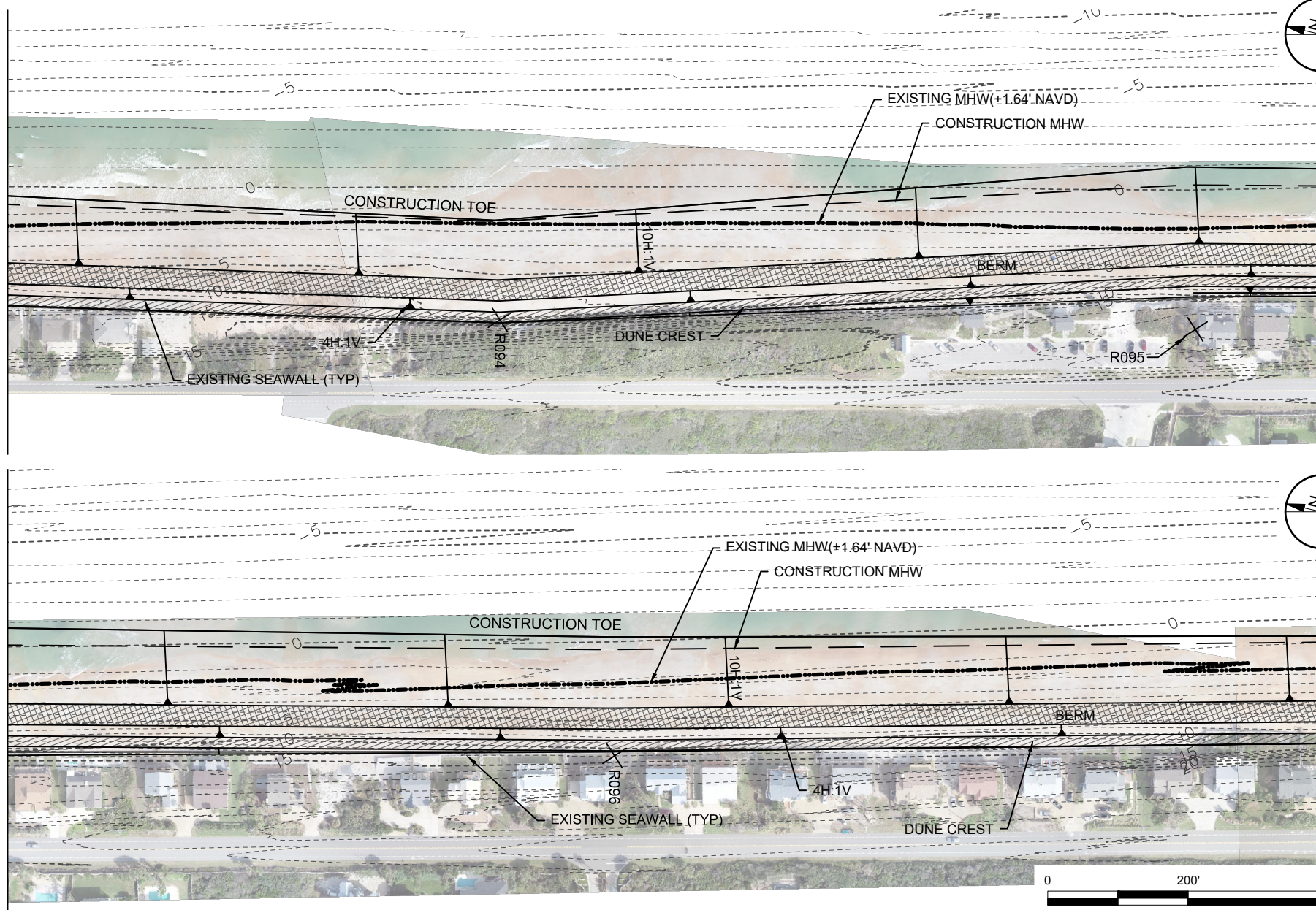
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MATCHLINE 10

MATCHLINE 11

MATCHLINE 11

MATCHLINE 12



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-9
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

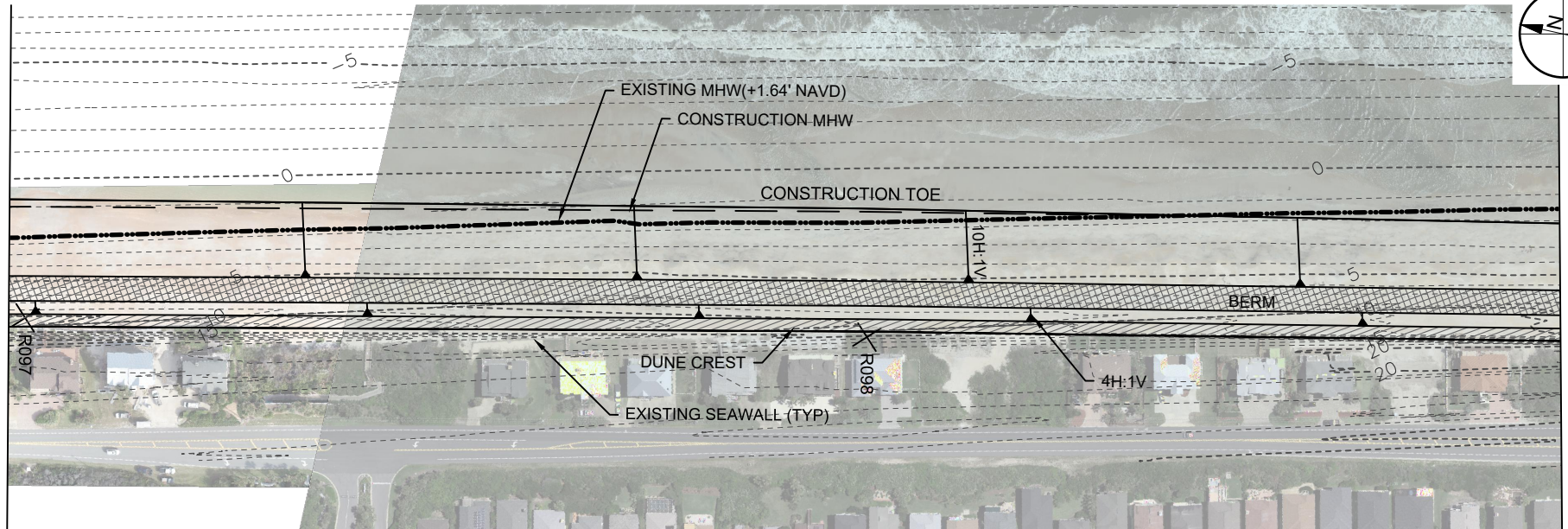
PROJECT	C2018-055
DRAWN BY	AF
SHEET	9 of 18
DATE	JAN 2020

SEAL	
DRAFT	
MICHAEL E. TRUDNAK P.E. # 58200	DATE

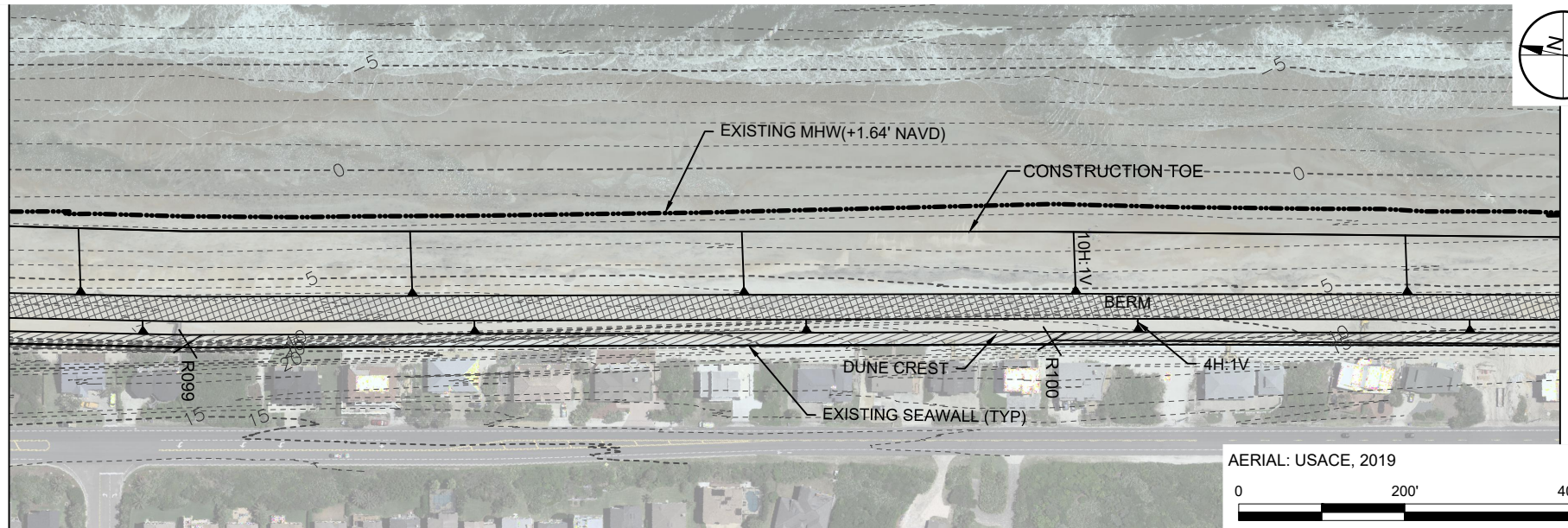
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MATCHLINE 13

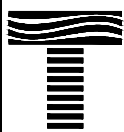


MATCHLINE 14

AERIAL: USACE, 2019

0 200' 400'

SCALE: 1" = 200'



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-10
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	10 of 18
DATE	JAN 2020

SEAL

DRAFT

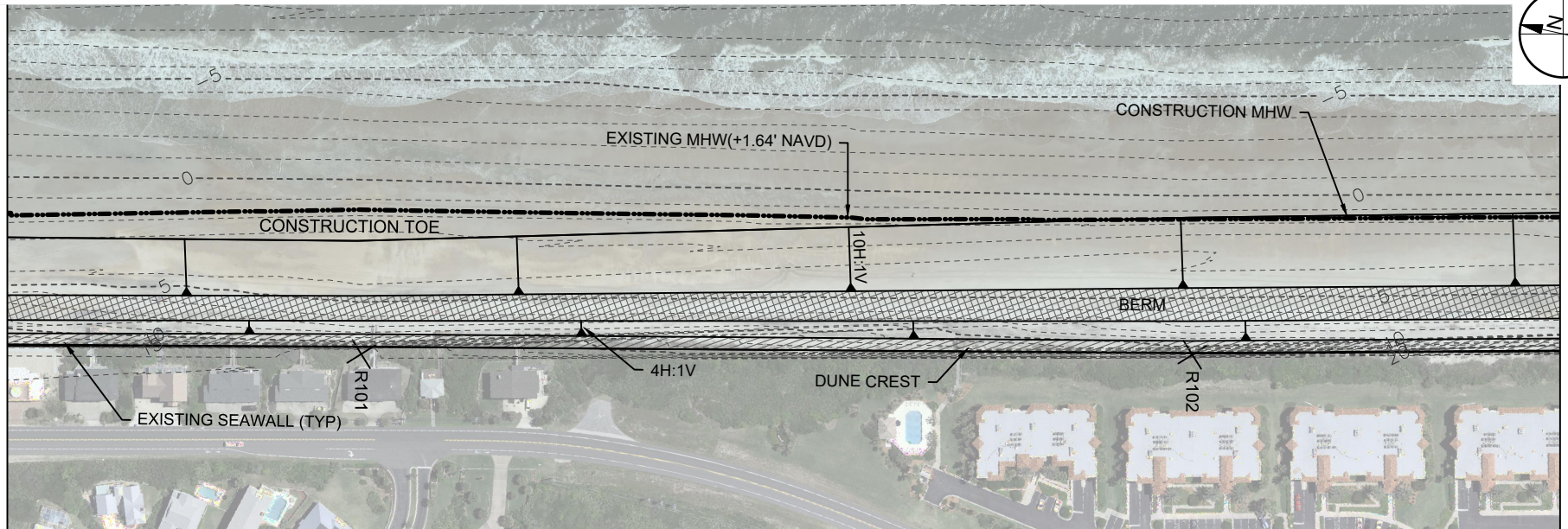
MICHAEL E. TRUDNAK P.E. # 58200

DATE

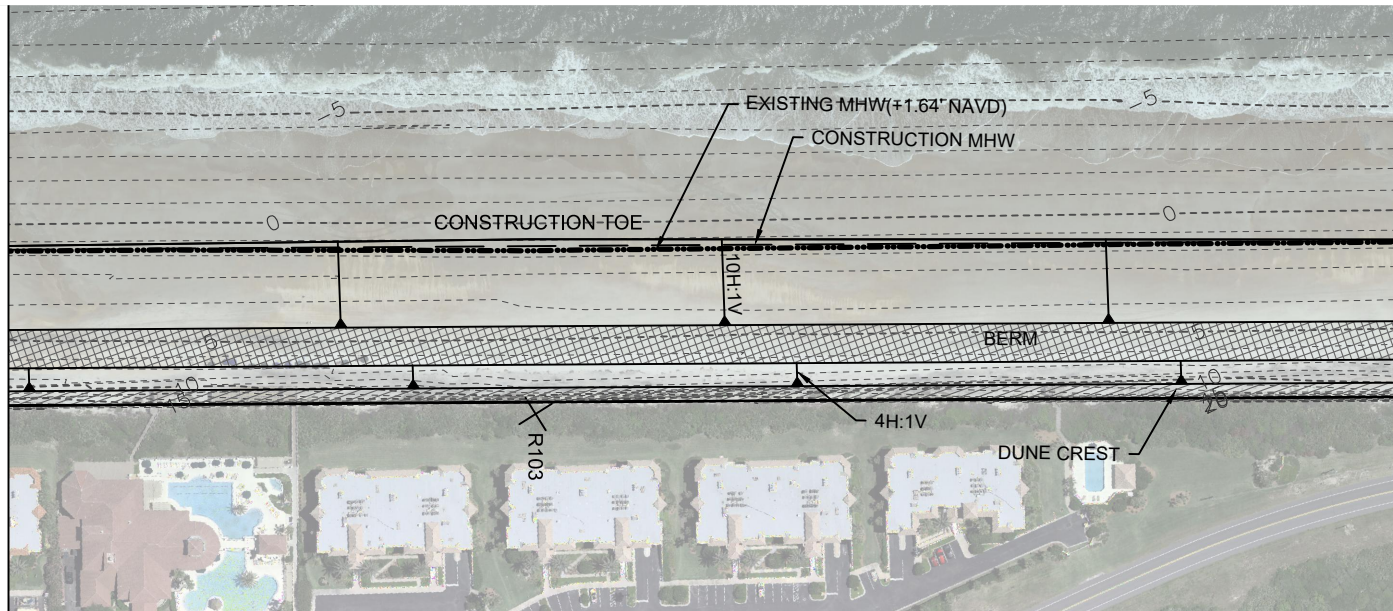
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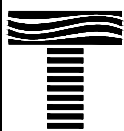
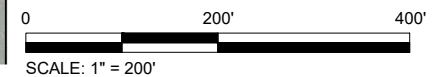


MATCHLINE 15



MATCHLINE 16

AERIAL: USACE, 2019



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10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-11
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	11 of 18
DATE	JAN 2020

SEAL

DRAFT

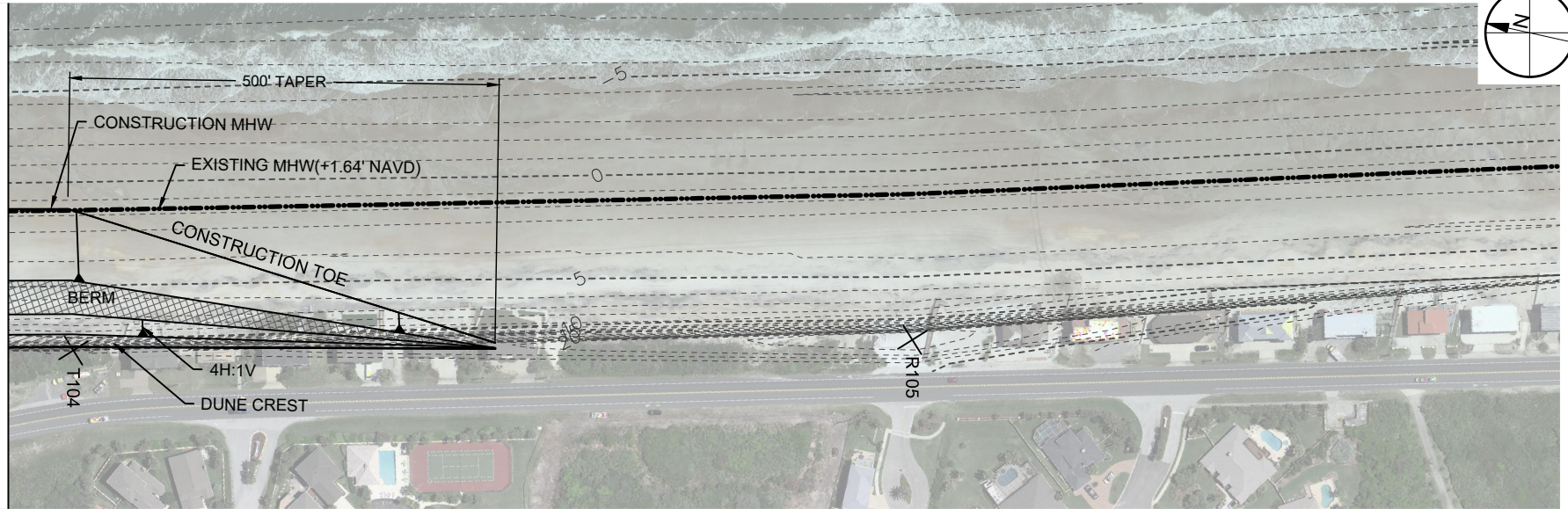
MICHAEL E. TRUDNAK P.E. # 58200

DATE

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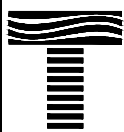
MATCHLINE 16



AERIAL: USACE, 2019

0 200' 400'

SCALE: 1" = 200'



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-12
BEACH PLANS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	12 of 18
DATE	JAN 2020

SEAL

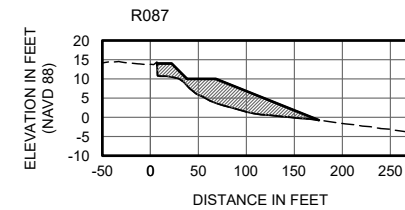
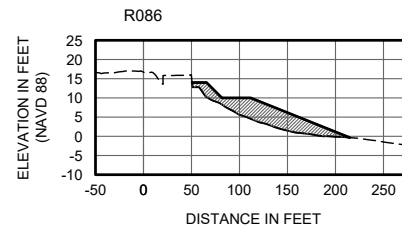
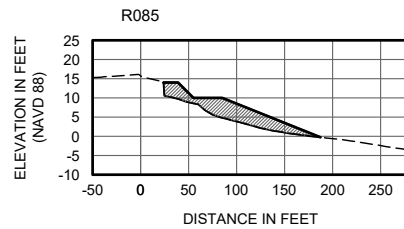
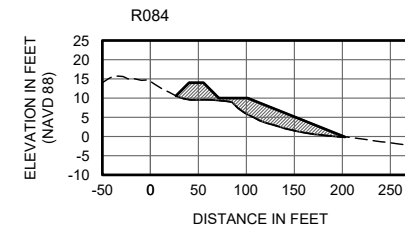
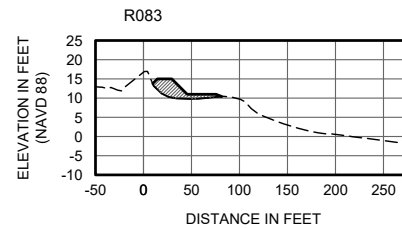
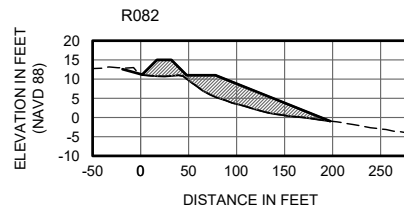
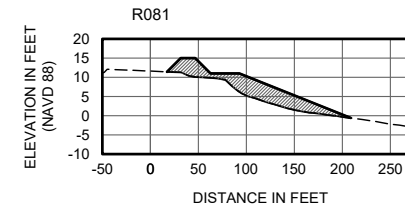
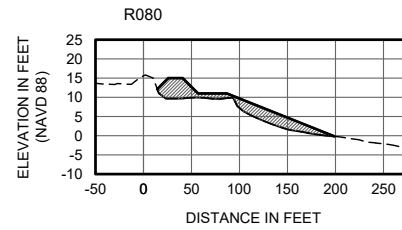
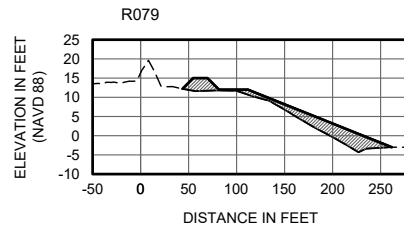
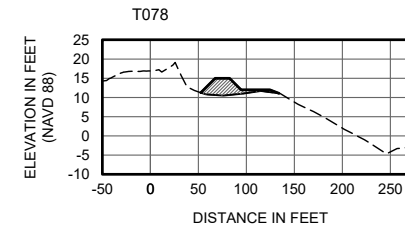
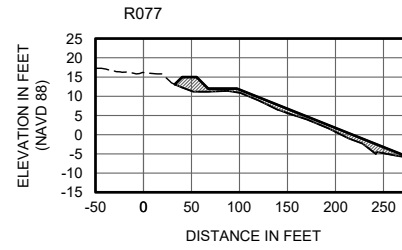
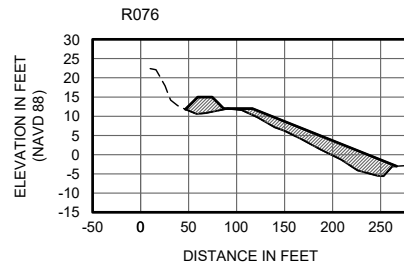
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MICHAEL E. TRUDNAK P.E.# 58200

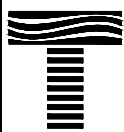
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ANTON FLEWELLING X:\SYSTEMS\PROJECTS\2018-055-P-BEACHSECTIONS.DWG 1/9/2020 11:34:54 AM



LEGEND:
----- EXISTING GRADE (NOV 2019)
[SHADING] PROPOSED BEACH FILL



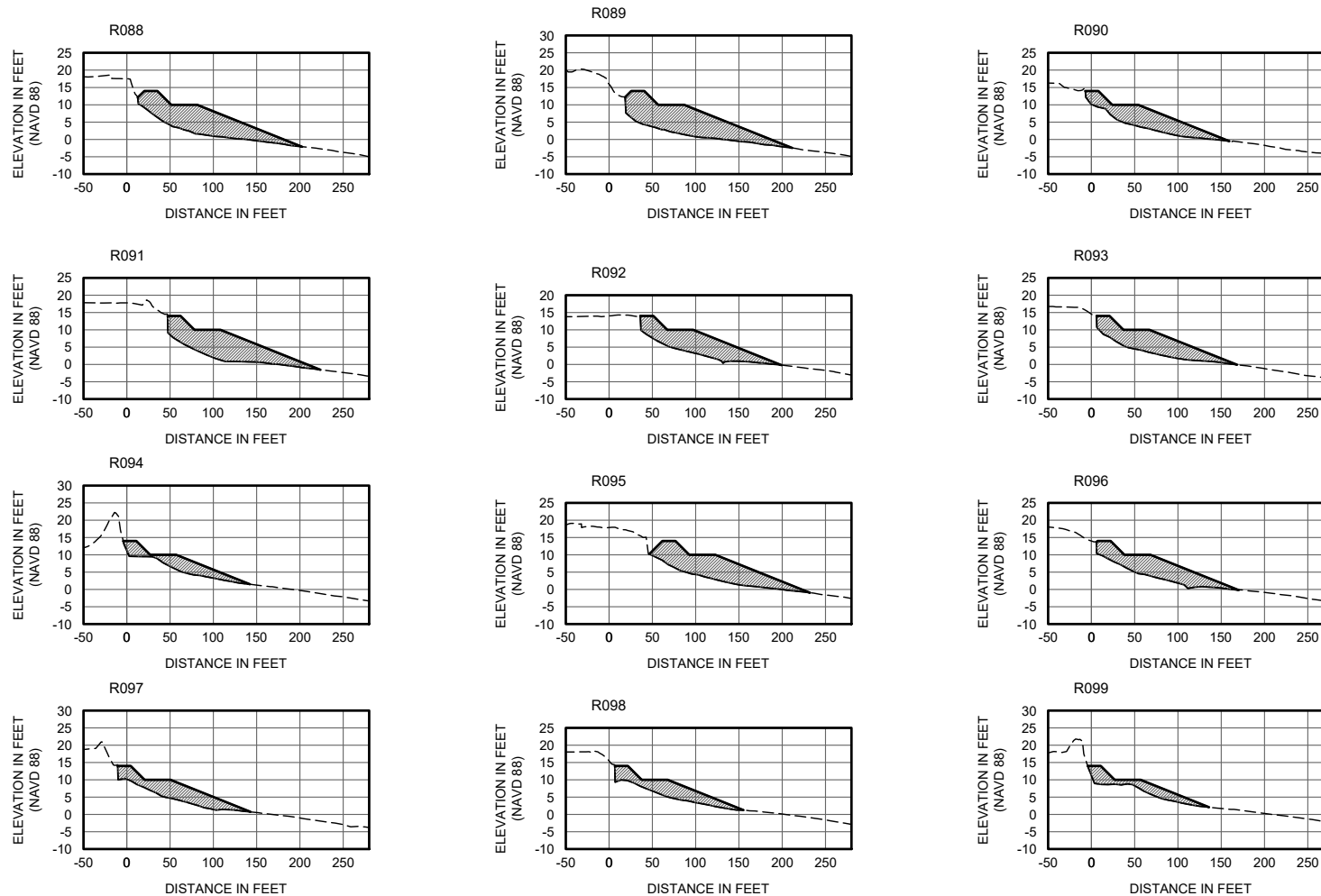
TAYLOR ENGINEERING INC.
10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-13
BEACH CROSS-SECTIONS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

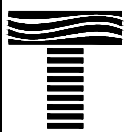
PROJECT	C2018-055
DRAWN BY	AF
SHEET	13 of 18
DATE	JAN 2020

SEAL	DRAFT
MICHAEL E. TRUDNAK P.E. # 58200	
DATE	

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LEGEND:
----- EXISTING GRADE (NOV 2019)
▨ PROPOSED BEACH FILL



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REGISTRY # 4815

FIGURE C-14
BEACH CROSS-SECTIONS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	14 of 18
DATE	JAN 2020

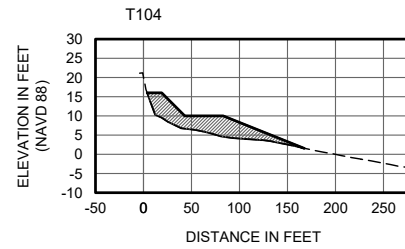
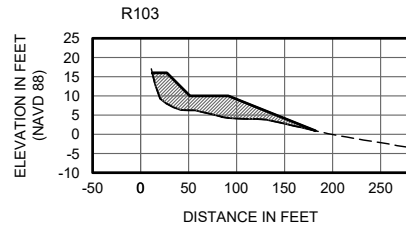
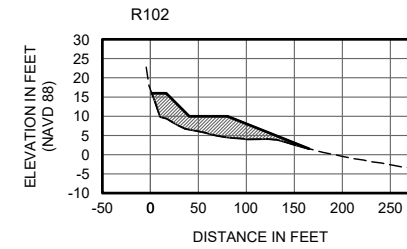
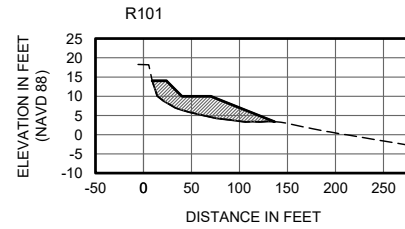
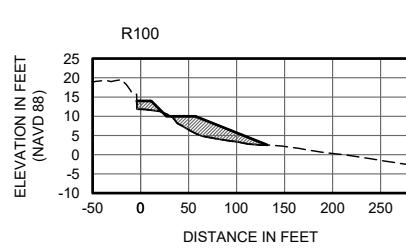
SEAL

DRAFT

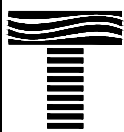
MICHAEL E. TRUDNAK P.E. # 58200

DATE

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LEGEND:
----- EXISTING GRADE (NOV 2019)
▨ PROPOSED BEACH FILL



TAYLOR ENGINEERING INC.

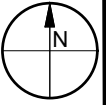
10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE C-15
BEACH CROSS-SECTIONS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
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DATE	

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



N: 2074125.18
E: 596858.56

N: 2074585.72
E: 601204.74

SITE N-3

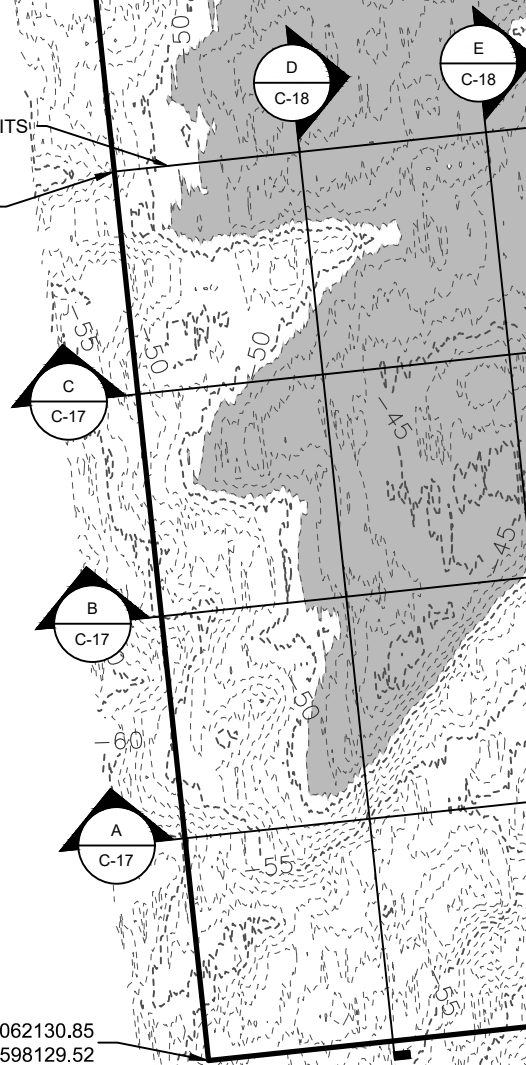
BORROW AREA N-3 PROPOSED LIMITS

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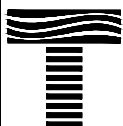
N: 2069536.02
E: 601739.82

N: 2062130.85
E: 598129.52

N: 2062591.38
E: 602475.70



0 1,500' 3,000'
SCALE: 1" = 1,500'



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FIGURE 16
BORROW AREA N-3 PLAN
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-055	AF	16 of 18	JAN 2020

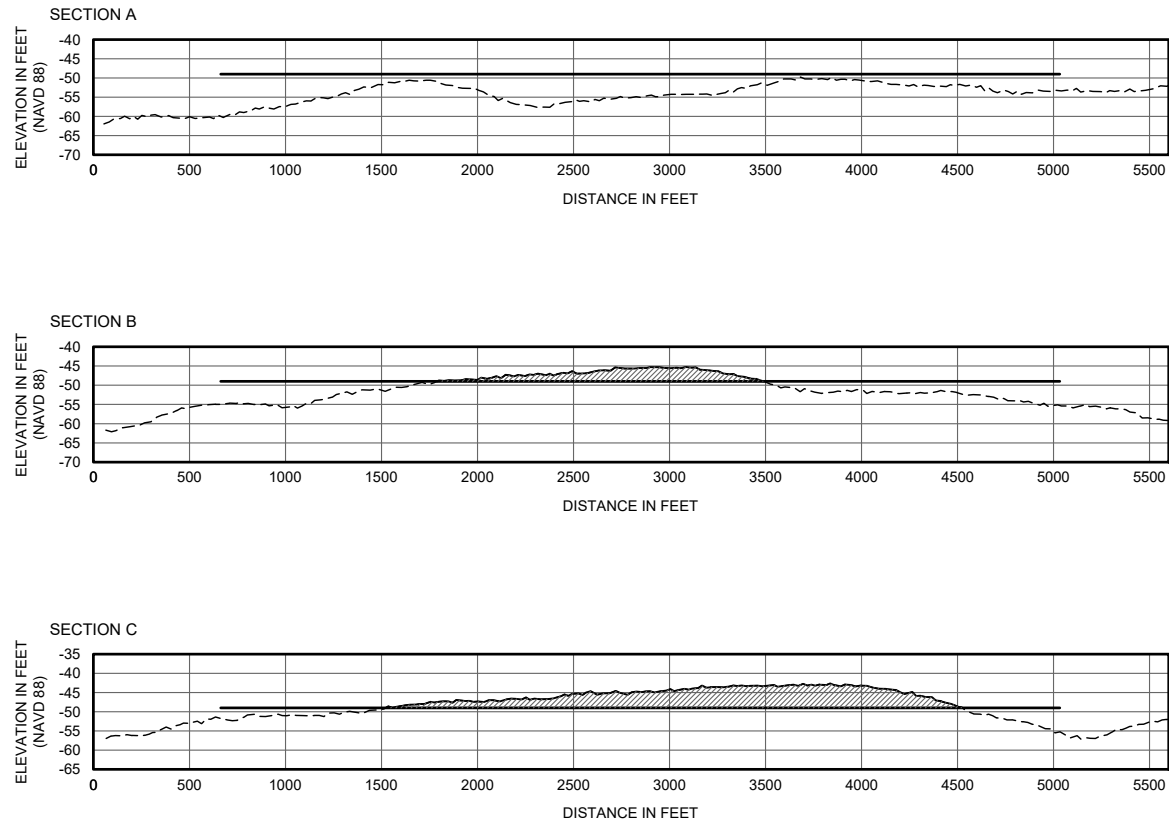
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0 1,000' 2,000'

SCALE: 1" = 1,000'

VERTICAL EXAGGERATION: 20X

LEGEND:	
----	EXISTING BATHYMETRY (DEC 2018)
—	PROPOSED BORROW TEMPLATE (-49' NAVD88)
	MATERIAL TO BE REMOVED



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FIGURE 17
BORROW AREA N-3 CROSS-SECTIONS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	17 of 18
DATE	JAN 2020

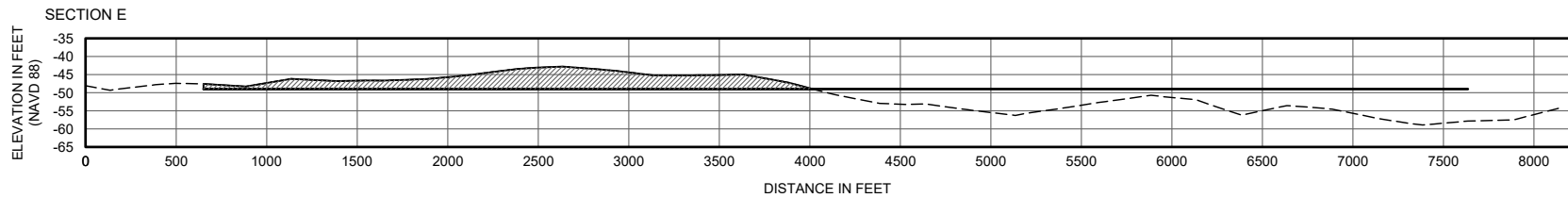
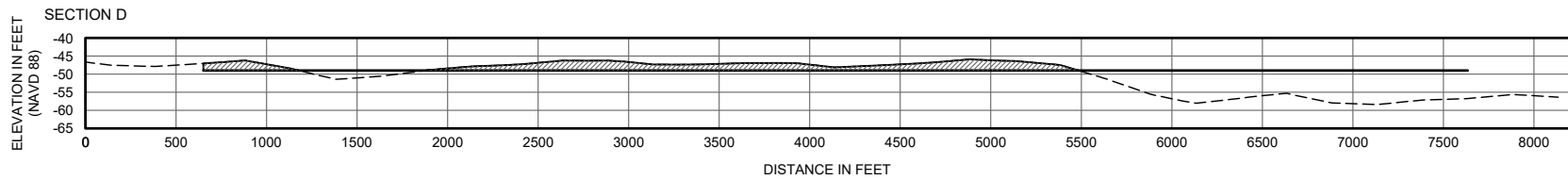
SEAL

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MICHAEL E. TRUDNAK P.E.# 58200

DATE

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0 1,000' 2,000'

SCALE: 1" = 1,000'

VERTICAL EXAGGERATION: 20X

LEGEND:	
-----	EXISTING BATHYMETRY (DEC 2018)
————	PROPOSED BORROW TEMPLATE (-49' NAVD88)
	MATERIAL TO BE REMOVED



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FIGURE 18
BORROW AREA N-3 CROSS-SECTIONS
SOUTH PONTE VEDRA BEACH RESTORATION
ST. JOHNS COUNTY, FLORIDA

PROJECT	C2018-055
DRAWN BY	AF
SHEET	18 of 18
DATE	JAN 2020

SEAL

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MICHAEL E. TRUDNAK P.E.# 58200

DATE