FRENCHMAN'S REEF SHORELINE PROTECTION & COASTAL IMPROVEMENTS

ST. THOMAS, U.S. VIRGIN ISLANDS

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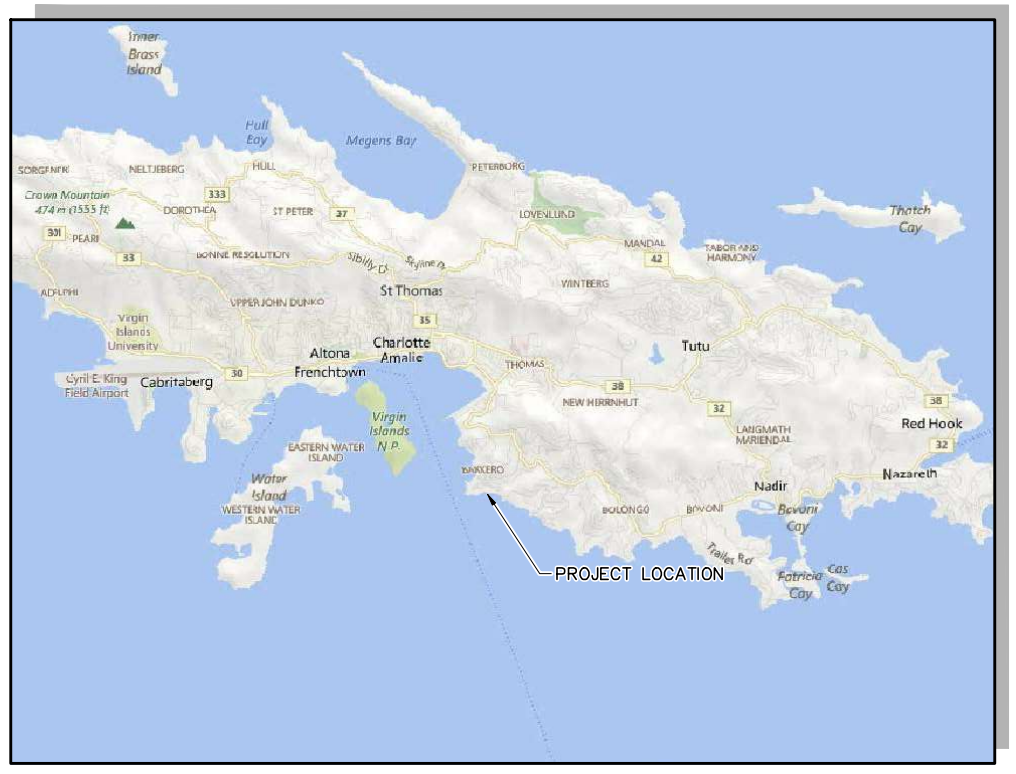

VICINITY MAP
SCALE: NTS

LOCATION PLAN
SCALE: NTS

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:
PICKLE BALL

REVISIONS

moffatt & nichol

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PROJECT
FRENCHMAN'S REEF SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S. VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
COVER SHEET

SHEET NUMBER
ZG-001
INDEX: 1 OF 14

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File: Q:\TA\10756\0500_CAD_Active_Shoreline Improvements\10756-ZG-001 ; Plotted: 9/29/2022 8:57 AM by DURAN, JESUS ; Saved: 9/20/2022 11:30 AM by JDURAN

GENERAL NOTES:

1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE CONSTRUCTION OF THE MARINE WORKS SHOWN ON THESE DRAWINGS.

2. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ABIDE BY ALL NOTES AND CONDITIONS INDICATED ON THE CONSTRUCTION DOCUMENTS. IF THE CONTRACTOR VIOLATES ANY CONDITION OF DOCUMENTS AND WORK IS STOPPED BY THE GOVERNMENT, THEN ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR SHALL BE PAID BY THE CONTRACTOR AND NOT THE OWNER.

3. THE OWNER IS RESPONSIBLE FOR OBTAINING PERMITTING AGENCY APPROVAL NECESSARY FOR THIS WORK.

4. COORDINATE WITH THE OWNER'S SITE REPRESENTATIVE AT THE BEGINNING OF EACH WORK DAY. CONTRACTOR TO FURNISH DAILY CONSTRUCTION ACTIVITY LOG WITH PHOTOGRAPHS.

5. PHASING OF THE WORK SHALL BE COORDINATED WITH THE OWNER WITH RESPECT TO DATES OF WORK. THE CONTRACTOR SHALL ENSURE THAT THE SITE REMAIN UNENCUMBERED AND OPEN FOR ACCESS OTHER THAN THOSE PORTIONS OR PHASE UNDER DIRECT CONTROL OF THE CONTRACTOR.

6. EXAMINE THE CONTRACT DOCUMENTS THOROUGHLY AND PROMPTLY REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING THE WORK.

7. LOCATIONS, DIMENSIONS AND ELEVATIONS OF BUILDINGS, ROADS AND UTILITIES SHOWN THE BASE MAP ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION.

SURVEY NOTES:

1. CONTOUR DATA SHOWN FROM TOPOGRAPHIC PRE-CONSTRUCTION SURVEY COMPLETED BY "BRIAN MOSELEY ASSOCIATES", INC; DATED APRIL 2022. AND FROM PARTIAL TOPOGRAPHIC SURVEY OF MARRIOT FRENCHMAN'S REEF MORNING STAR RESORT COMPLETED BY "BRIAN MOSELEY ASSOCIATES" DATED 2017.

2. AERIAL PHOTOGRAPHY FROM EDSA 2020 AERIAL.

3. HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO NAD83.

4. ELEVATIONS IN FEET REFERENCED TO MLLW.

5. THE INFORMATION DEPICTED ON THESE DRAWINGS REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS AN INDICATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.

6. TIDAL ELEVATIONS ARE AS FOLLOWS BASED ON NOAA STATION 9751639, CHARLOTTE AMALIE, VI:

MHHW	0.79'
MHW	0.75'
DTL	0.40'
MTL	0.40'
MSL	0.38'
MLW	0.05'
MLLW	0.00'

SPECIFICATIONS:

1. THE SHORELINE AREA CONDITIONS ARE DYNAMIC IN NATURE. CONDITIONS EXISTING DURING THE PREPARATION OF THE DRAWINGS MAY NOT BE AN ACCURATE REPRESENTATION OF THE FILL AREA CONDITIONS EXISTING AT THE COMMENCEMENT OF FILL AND CONSTRUCTION OPERATIONS. SURVEY SHORELINE AREA PRIOR TO CONSTRUCTION AND INDICATE DISCREPANCIES TO ENGINEER IN THE PRE-CONSTRUCTION SURVEY SUBMITTAL.

ARMOR STONE

1. ARMOR STONE SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 2.6 PER ASTM C 127.

2. REVETMENT ARMOR STONE SHALL CONFORM TO THE FOLLOWING GRADATION WITH STONE WEIGHT PERCENT LARGER THAN:
   a. 2.5 TON 0 – 5%
   b. 2 TON 50 – 100%
   c. 1,000 LBS 95 – 100%

3. SCOUR PROTECTION STONE SHALL CONFORM TO THE FOLLOWING GRADATION WITH STONE WEIGHT PERCENT LARGER THAN:
   a. 1.5 TON 0 – 5%
   b. 1.0 TON 50 – 100%
   c. 500 LBS 95 – 100%

4. UNDERLAYER STONE SHALL CONFORM TO THE FOLLOWING GRADATION WITH STONE WEIGHT PERCENT LARGER THAN:
   a. 500 LBS 0 – 5%
   b. 400 LBS 50 – 100%
   c. 200 LBS 95 – 100%

5. BEDDING STONE SHALL CONFORM TO THE FOLLOWING GRADATION WITH STONE WEIGHT PERCENT LARGER THAN:
   a. 100 LBS 0 – 5%
   b. 80 LBS 50 – 100%
   c. 40 LBS 95 – 100%

6. IMPORTED ARMOR STONE SHALL BE QUARRY STONE, ANGULAR, CLOSE-GRAINED, HARD, AND OF SUCH QUALITY THAT IT WILL BE DURABLE UNDER THE CONDITIONS TO BE MET IN THE COASTAL ENVIRONMENT. THE STONE SHALL BE FREE OF SEAMS OR THIN LAYERS OF SOFT OR DECOMPOSED MATERIAL TO THE END THAT IT WILL NOT SHATTER, DISINTEGRATE, BREAK DOWN, OR OPEN UP UPON DUMPING OR UPON PROLONGED EXPOSURE TO WEATHER AND WAVE ACTION.

7. ARMOR STONE SHALL BE ROUGHLY ANGULAR AND SHALL BE REASONABLY FREE OF THIN, FLAT, ELONGATED PIECES, WITH GREATEST DIMENSION NOT GREATER THAN THREE TIMES THE LEAST DIMENSIONS.

8. ARMOR STONE SHALL NOT DISINTEGRATE OR BREAK DURING HANDLING.

SPECIFICATIONS:

EROSION AND TURBIDITY CONTROL

1. CONTRACTOR SHALL SUBMIT EROSION AND TURBIDITY CONTROL PLAN FOR PROJECT PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL BY THE ENGINEER. SUBMITTAL SHALL INCLUDE PRODUCT SPECIFICATIONS, PLAN VIEW DRAWING SHOWING LAYOUT AND TYPE OF BMPS USED, AND MONITORING LOCATIONS & FREQUENCY OF MONITORING DURING CONSTRUCTION.

2. ADJACENT MARINE RESOURCES INCLUDING SEA GRASS HABITATS AND REEF AREAS SHALL NOT BE IMPACTED BY CONSTRUCTION OPERATIONS.

3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO MINIMIZE TURBIDITY.

4. THE CONTRACTOR SHALL MAINTAIN TURBIDITY BARRIERS DAILY TO CONTROL TURBIDITY FROM CONSTRUCTION OPERATIONS.

BEACH FILL

1. THE BEACH FILL AREA CONDITIONS ARE DYNAMIC IN NATURE. CONDITIONS EXISTING DURING THE PREPARATION OF THE CONTRACT DRAWINGS MAY NOT BE AN ACCURATE REPRESENTATION OF THE BEACH FILL AREA CONDITIONS EXISTING AT THE COMMENCEMENT OF BEACH FILL OPERATIONS. CONTRACTOR SHALL SURVEY BEACH FILL AREA PRIOR TO CONSTRUCTION AND INDICATE DISCREPANCIES TO ENGINEER IN THE PRE-CONSTRUCTION SURVEY SUBMITTAL.

2. THE CONTRACTOR SHALL STAKE THE BASELINE AND TRANSECTS FOR THE USE BY THE CONTRACTOR AND OWNER'S PERSONNEL TO DOCUMENT FINAL BEACH FILL GRADES. THE STAKING SHALL CLEARLY INDICATE THE SLOPE BREAKS, DESIGN GRADE AND TOLERANCE ELEVATIONS.

3. BEACH FILL SHALL BE FROM SOURCE APPROVED BY ENGINEER AND PERMITTING AGENCIES.

4. ALL FILL MATERIAL MUST BE SAND THAT IS SIMILAR TO THAT ALREADY EXISTING AT THE BEACH SITE IN BOTH COLOR AND GRAIN SIZE DISTRIBUTION. ALL SUCH FILL MATERIAL MUST BE FREE OF CONSTRUCTION DEBRIS, ROCKS, OR OTHER FOREIGN MATTER.

5. BEACH FILL MATERIAL SHALL BE PLACED AND SHAPED TO THE BEACH FILL TEMPLATE LINES, GRADES, SLOPES, AND ELEVATIONS SHOWN ON THE DRAWINGS. THERE SHALL BE NO PRONOUNCED RIDGES OR WASH HOLES IN THE FINAL GRADES AND SLOPES UNLESS OTHERWISE INDICATED.

6. A VERTICAL TOLERANCE OF PLUS 6" WILL BE PERMITTED ON THE BEACH FILL GRADES AND SLOPES. NO MINUS TOLERANCE WILL BE PERMITTED, EXCEPT BELOW EL 0.00, WHERE THE BEACH FILL MAY BE PLACED AT A SLOPE STEEPER BUT NOT FLATTER THAN THE SLOPES ON THE DRAWINGS BELOW THE WATERLINE.

7. THE CONTRACTOR SHALL CONDUCT HIS WORK OPERATIONS SO THAT NO AREA LANDWARD OF THE WORK LIMITS SHOWN ON THE DRAWINGS ARE DISTURBED. IF AREAS ARE DAMAGED, CONTRACTOR TO REPAIR AT HIS OWN EXPENSE.

8. IF REQUIRED IMPORTED BEACH FILL SHALL BE MEASURED BY STOCKPILE SURVEYS AND CHECKED WITH THE TRUCK LOADS. SURVEYS WILL BE CONDUCTED BASED ON METHODOLOGY APPROVED BY ENGINEER AND OWNER. PAYMENT FOR BEACH FILL SHALL BE BASED ON IMPORTED MEASURED QUANTITIES. PRE VS POST PLACEMENT SURVEYS SHALL BE PERFORMED BY CONTRACTOR AND VERIFIED BY ENGINEER TO CONFIRM FINAL GRADES.

9. THE CONTRACTOR SHALL PREPARE AND MAINTAIN DAILY REPORTS OF THE OPERATIONS THAT INCLUDES THE LOCATION AND DEPTH OF SAND PLACEMENT AND QUALITY OF MATERIAL PLACED AND LONGSHORE EXTENT OF THE BEACH FILL OPERATIONS.

10. ENGINEER WILL OBTAIN GRAB SAMPLES OF BEACH FILL AND CONDUCT PERIODIC TESTING.

FILTER FABRIC

1. FILTER CLOTH (GEOTEXTILE) SHALL BE US FABRICS 670, OR APPROVED EQUAL.

2. THE SURFACE ON WHICH THE GEOTEXTILE WILL BE PLACED SHALL BE RELATIVELY SMOOTH AND FREE OF SHARP OBJECTS, DEBRIS, OR OTHER IRREGULARITIES THAT MAY RESULT IN DAMAGE TO THE FABRIC. ANY IRREGULARITIES SHALL BE REMOVED TO PROVIDE CONTINUOUS CONTACT WITH THE SURFACE.

3. THE GEOTEXTILE SHALL BE PLACED AS INDICATED IN THE REVETMENT SECTIONS, WITH THE LONG DIMENSION PERPENDICULAR TO THE MAIN AXIS OF THE REVETMENT.

4. THE GEOTEXTILE SHALL BE PLACED LOOSELY ALONG THE SLOPE TO RELIEVE TENSILE STRESSES AND AVOID TEARING AND DAMAGING THE MATERIAL DURING ROCK PLACEMENT.

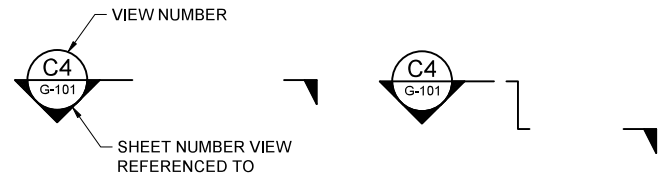
5. PROVIDE A MINIMUM OVERLAP WIDTH OF 3 FT BETWEEN PIECES/ROLLS. APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE THE FABRIC POSITIONING AND OVERLAP IS MAINTAINED DURING SUBSEQUENT ROCK PLACEMENT.

ABBREVIATIONS:

DTL	MEAN DIURNAL TIDE LEVEL
E	EASTING
EL, ELEV	ELEVATION
FT	FEET OR FOOT
H	HORIZONTAL
in	INCH OR INCHES
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
MLLW	MEAN LOWEST LOW WATER
MSL	MEAN SEA LEVEL
MTL	MEAN TIDE LEVEL
N	NORTH
NO	NUMBER
TYP	TYPICAL
V	VERTICAL
W	WEST
°	DEGREE
'	FEET OR FOOT
''	INCH OR INCHES
#	NUMBER
%	PERCENT
±	PLUS OR MINUS

LEGEND

VIEW TITLE — DETAIL CALLOUT



SECTION CALLOUT — SECTION CALLOUT WITH JOG

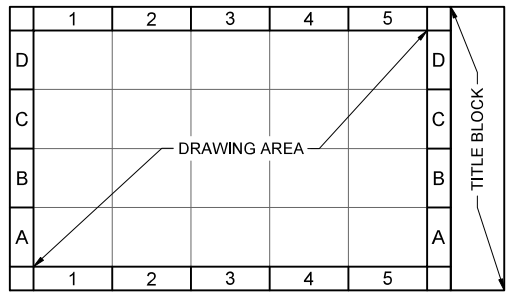
KEYED NOTE — DETAIL CALLOUT WITH LEADERS

* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM:
"VIEW NO./SHEET NO." (EG A1/CS-5001)

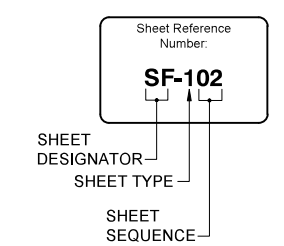
SHEET TYPE DESIGNATORS	
0	GENERAL (COVER SHEET, LEGEND, NOTES)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (NOT TYPICALLY USED)
3	SECTIONS (OVERALL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, SECT, OR ELEV. - NOT DETAILS)
5	DETAILS (MAY BE PLAN, SECT. OR ELEV. VIEWS)
6	SCHEDULES
7	USER DEFINED
8	USER DEFINED
9	3D ISOMETRIC

DISCIPLINE DESIGNATORS	
DISCIPLINE	DESIGNATOR
GENERAL	G
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL WORKS	W
CIVIL	C
STRUCTURAL	S
MECHANICAL	M
ELECTRICAL	E
OTHER DISCIPLINES	X

SECONDARY DESIGNATORS	
DEMOLITION	D
GENERAL	G
SUBSTRUCTURE	B
FRAMING	F
COMPONENT	C
SITE	S



DRAWING AREA COORDINATE SYSTEM (DACS)



IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

△	REVISIONS

moffatt & nichol

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PROJECT
FRENCHMAN'S REEF
SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
NOTES AND ABBREVIATIONS

SHEET NUMBER
ZG-002

INDEX: 2 OF 14

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TIDES

0.79' MHHW
0.75' MHW
0.05' MLW
0.00' MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
2. HTL SURVEY BY BIOIMPACT, INC. ON SEPTEMBER 13, 2022. ELEVATION VARIES.

60' 0' 60' 120'
SCALE: 1"=60'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:
PICKLE BALL

REVISIONS

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PROJECT
FRENCHMAN'S REEF SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S. VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
EXISTING SITE PLAN - AERIAL

SHEET NUMBER
ZV-101
INDEX: 3 OF 14

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TIDES

0.79'	MHHW
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
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ISSUED: 2022-09-29

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PROJECT

FRENCHMAN'S REEF
SITE LANDSCAPE

5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
EXISTING SITE PLAN

SHEET NUMBER
ZV-102

INDEX: 4 OF 14

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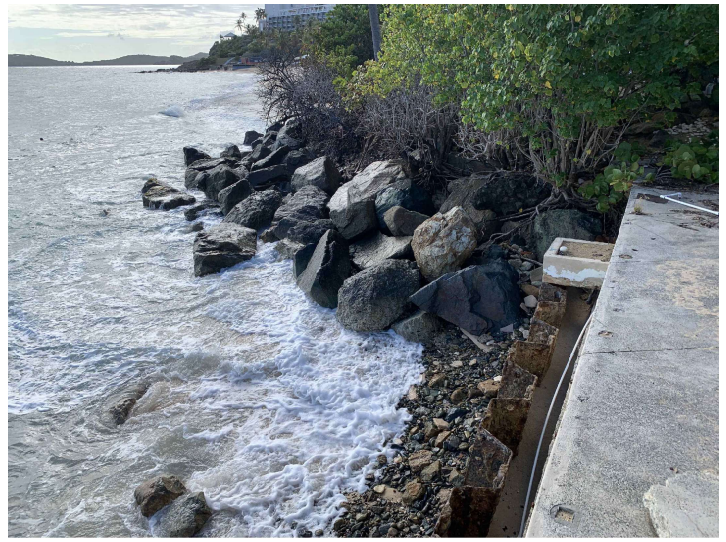
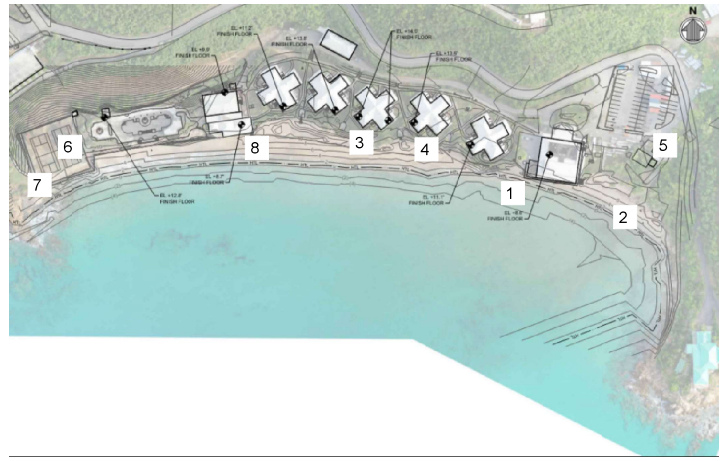


1 ZV-103 ARRIVALS BUILDING

2 ZV-103 EAST BEACH

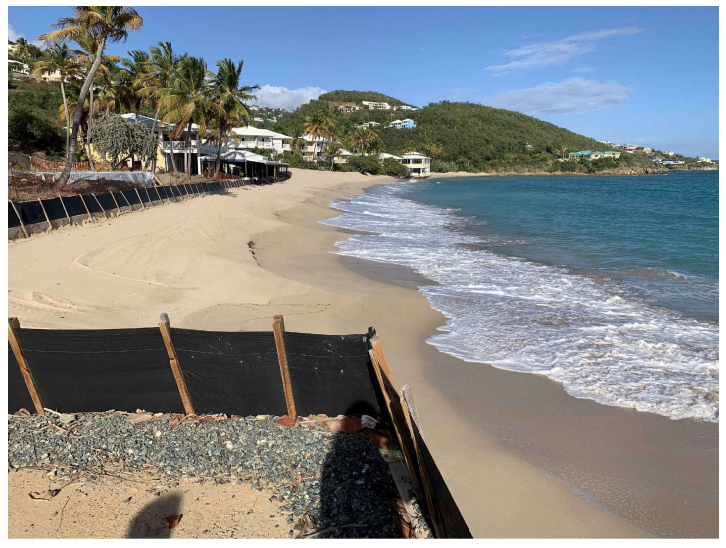


KEY MAP

3 ZV-103 CENTER BEACH

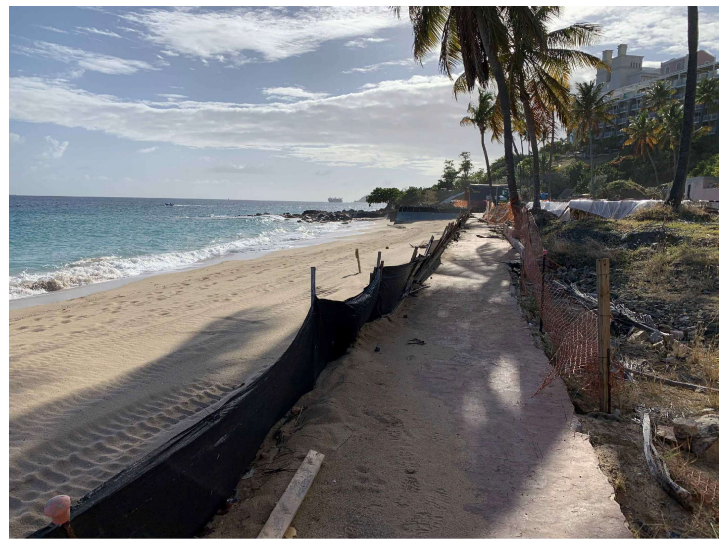
4 ZV-103 UPLAND CENTER BEACH

5 ZV-103 ACCESS FROM PARKING LOT



6 ZV-103 WEST BEACH (LOOKING EAST)

7 ZV-103 WEST BEACH (LOOKING WEST)



8 ZV-103 CENTER BEACH

IFC
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ISSUED FOR:

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5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
EXISTING PHOTOS

SHEET NUMBER
ZV-103

INDEX: 5 OF 14

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TIDES

0.79'	MHHW
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
2. HTL SURVEY BY BIOIMPACT, INC. ON SEPTEMBER 13, 2022. ELEVATION VARIES.

60' 0' 60' 120'

SCALE: 1"=60'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

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PROJECT

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5 ESTATE BAKKEROE, ST. THOMAS U.S. VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
GRADING PLAN - AERIAL

SHEET NUMBER
ZCE-101

INDEX: 6 OF 14

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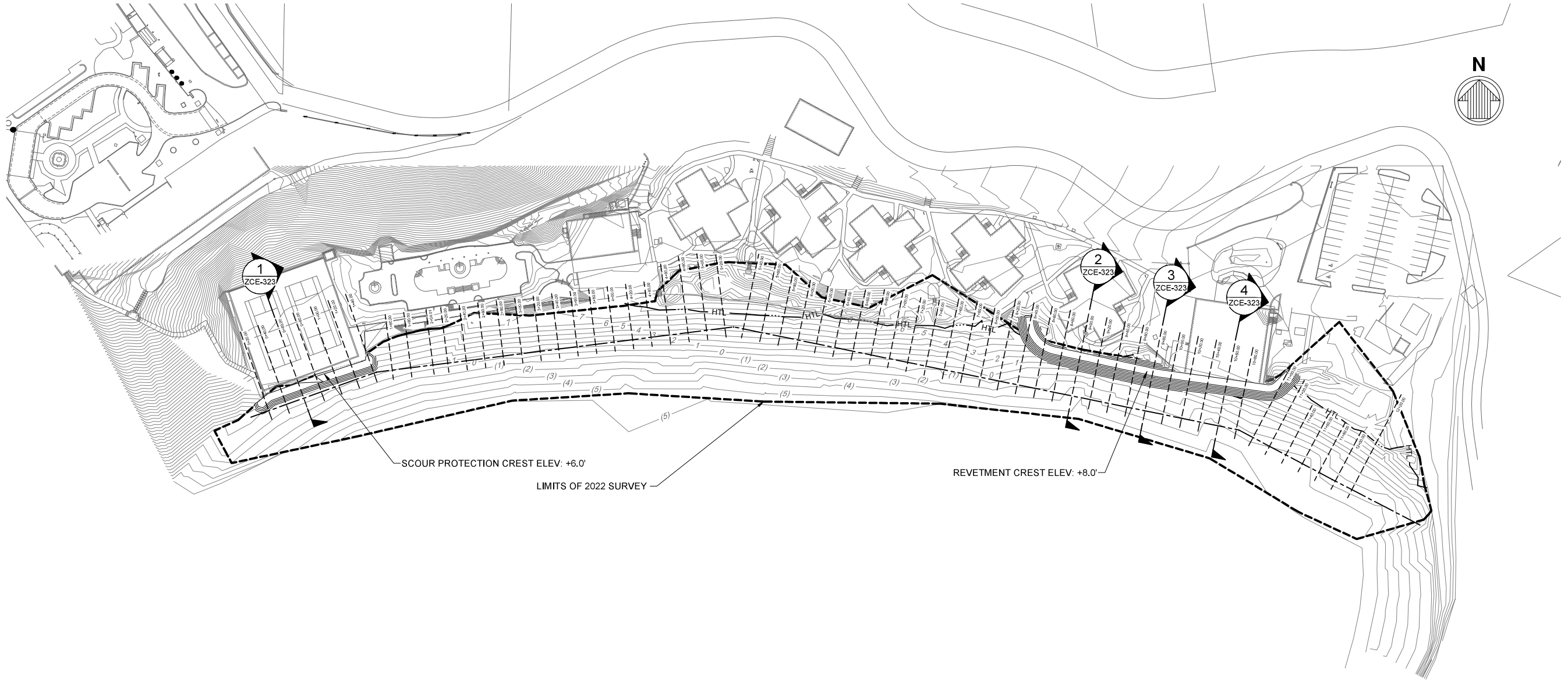

TIDES

0.79'	MHHW
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
2. HTL SURVEY BY BIOIMPACT, INC. ON SEPTEMBER 13, 2022. ELEVATION VARIES.

60' 0' 60' 120'

SCALE: 1"=60'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

REVISIONS

moffatt & nichol

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kollinaltomare.com

Chicago
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Chicago, IL 60610
t: 312.447.1580

PROJECT
FRENCHMAN'S REEF
SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
GRADING PLAN

SHEET NUMBER
ZCE-102

INDEX: 7 OF 14

KOLLIN ALTOMARE ARCHITECTS, INC EXPRESSLY RESERVES ALL COMMON LAW COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, INC

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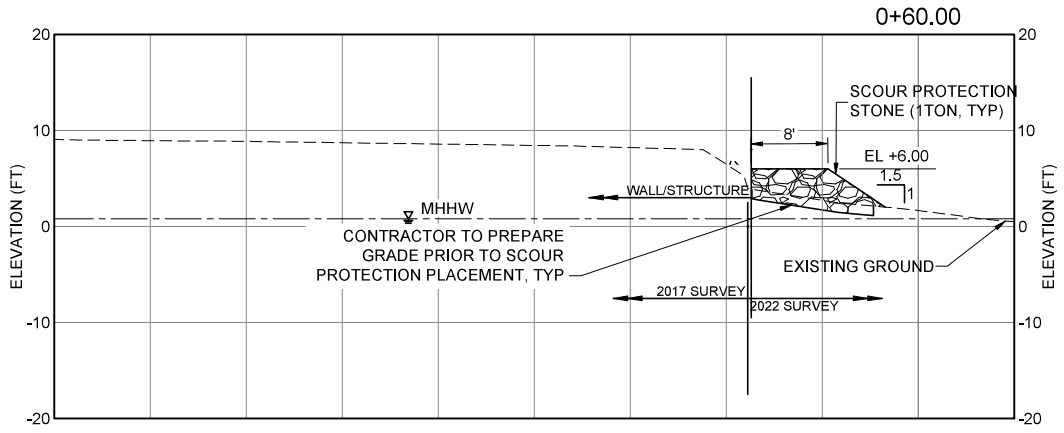
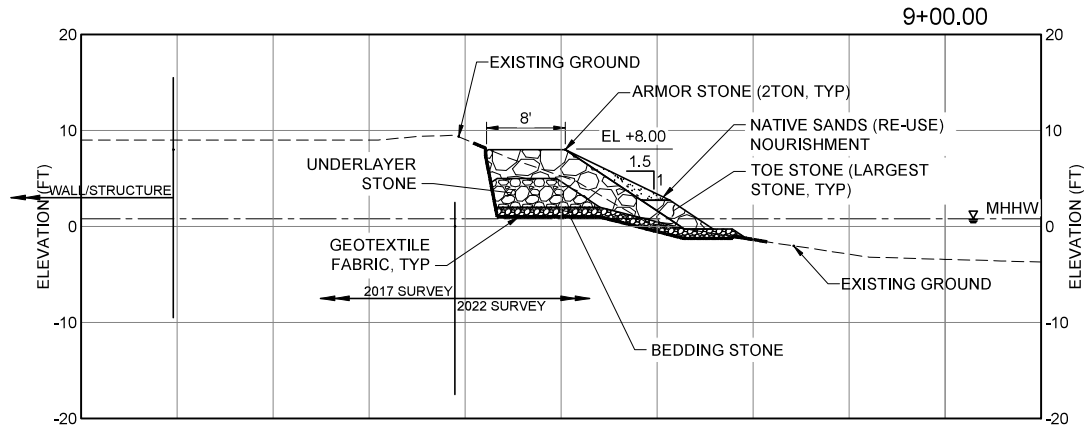
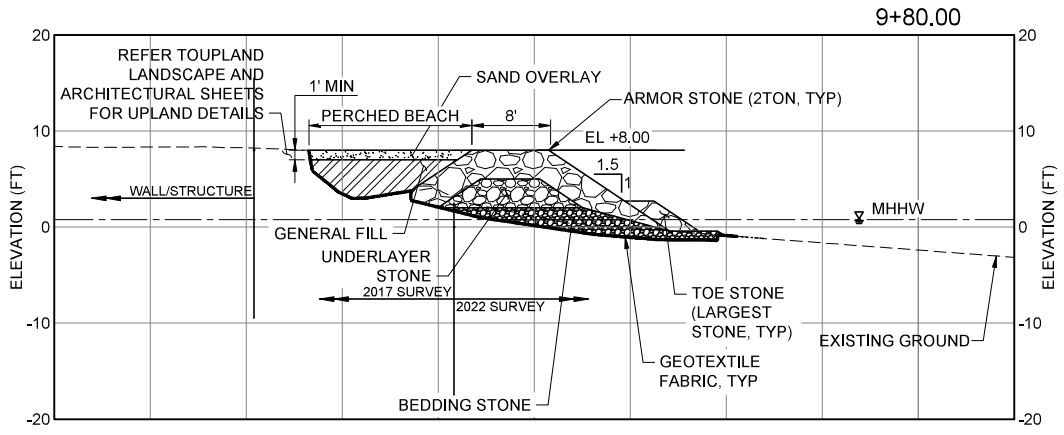


1 ZCE-102 TYPICAL SCOUR PROTECTION
SCALE: 1"=10'



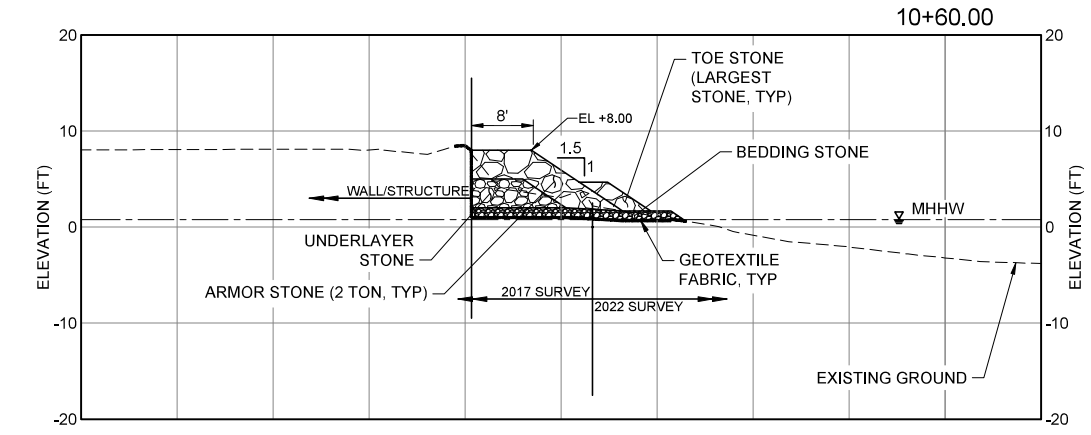
2 ZCE-102 TYPICAL REVETMENT AT EXISTING BUILDING LOCATIONS
SCALE: 1"=10'

NOTE:
TOE STRUCTURE TO HAVE MINIMUM WIDTH OF TWO STONES.



3 ZCE-102 TYPICAL REVETMENT
SCALE: 1"=10'

NOTE:
SAND PLACEMENT AND FINAL GRADE TO BE DIRECTED IN THE FIELD.



4 ZCE-102 TYPICAL REVETMENT AT EXISTING LOBBY BUILDING
SCALE: 1" = 10'

NOTE:
TOE STRUCTURE TO HAVE MINIMUM WIDTH OF TWO STONES.

TIDES

0.79'	MHHW
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
2. HTL SURVEY BY BIOIMPACT, INC. ON SEPTEMBER 13, 2022. ELEVATION VARIES.

10' 0' 10' 20'
SCALE: 1"=10'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:
PICKLE BALL

REVISIONS

moffatt & nichol

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PROJECT
FRENCHMAN'S REEF SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S. VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
TYPICAL SECTIONS

SHEET NUMBER
ZCE-323
INDEX: 8 OF 14

KOLLIN ALTOMARE ARCHITECTS, INC. EXPRESSLY RESERVES ALL COMMON LAW COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, INC.

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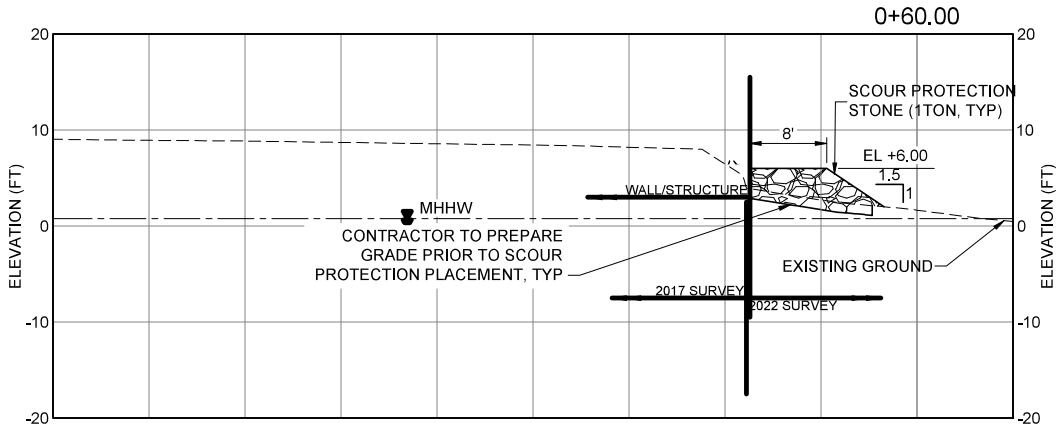

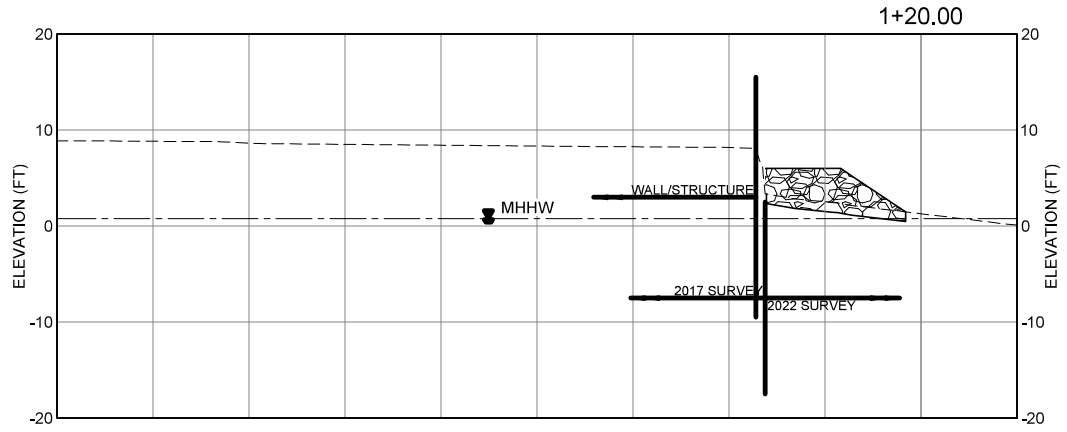

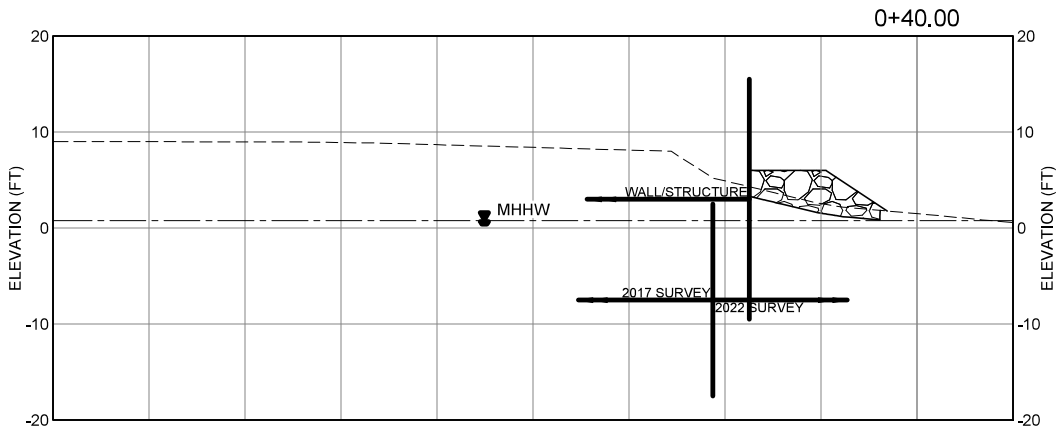

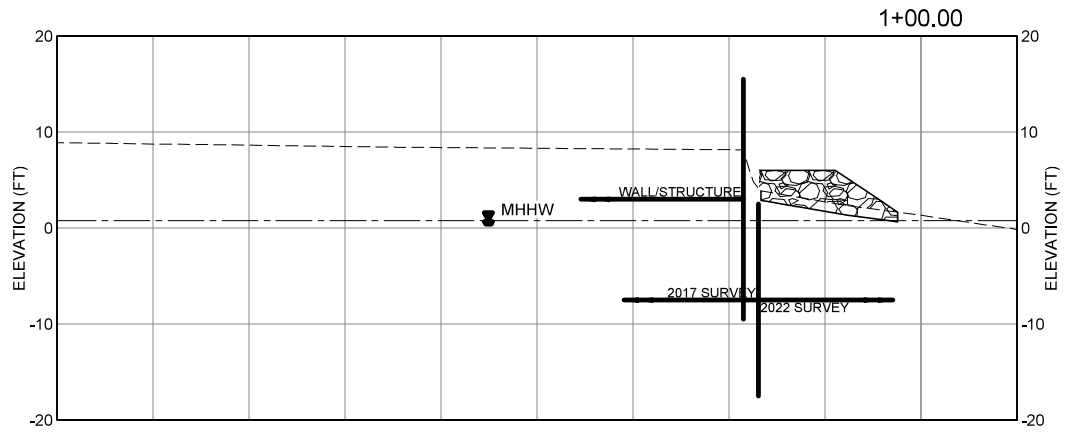

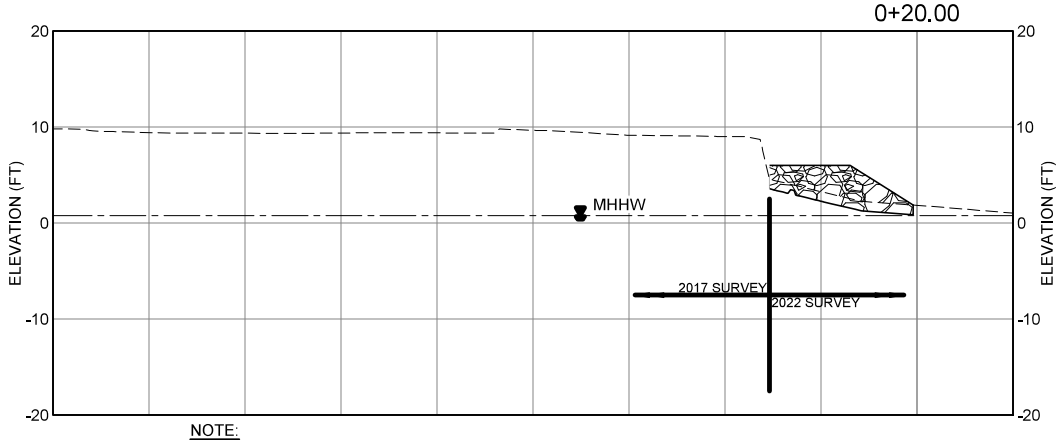

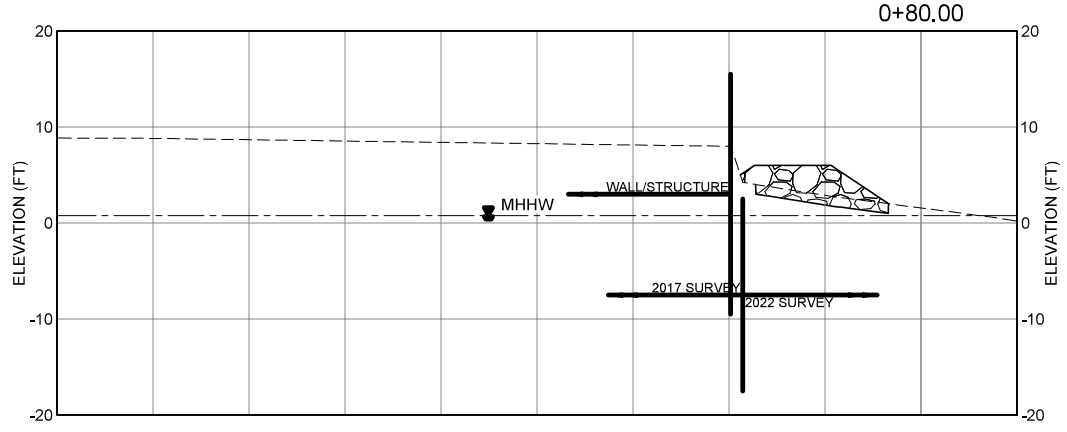

NOTE:

REFER TO LANDSCAPE PLANS FOR FINISHED DETAILS

TIDES

0.79'	MHHW (HTL)
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.

10' 0' 10' 20'

SCALE: 1"=10'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

△ REVISIONS

moffatt & nichol

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PROJECT

FRENCHMAN'S REEF
SITE LANDSCAPE

5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
REVETMENT SECTIONS ALONG THE BEACH (1 OF 4)

SHEET NUMBER
ZCE-324

INDEX: 9 OF 14

KOLLIN ALTOMARE ARCHITECTS, INC EXPRESSLY RESERVES ALL COMMON LAW COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, INC

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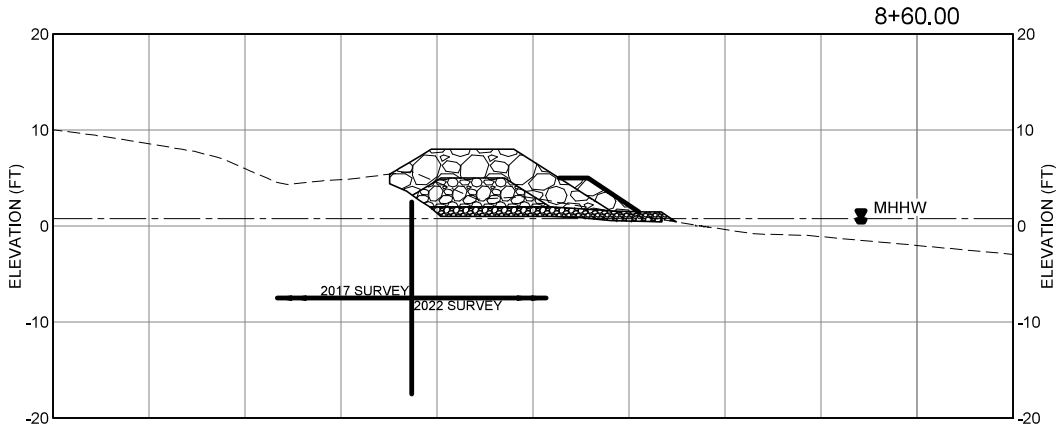

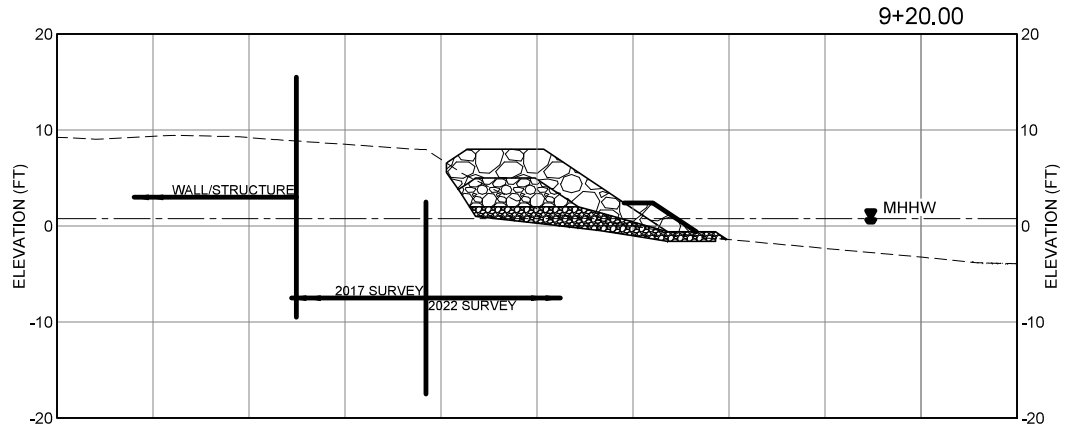

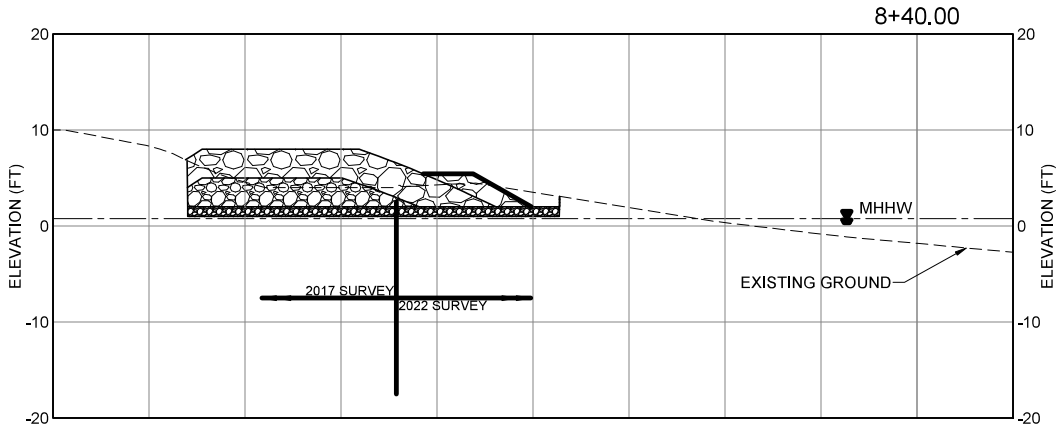

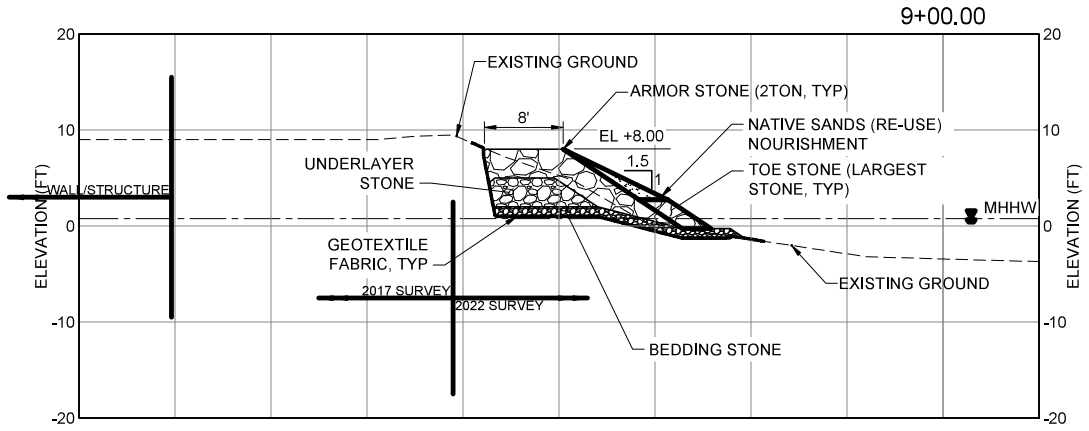

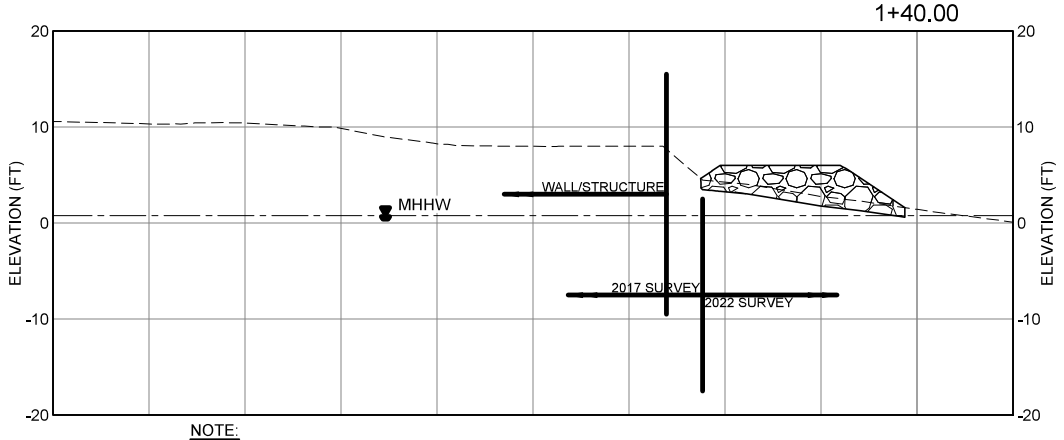

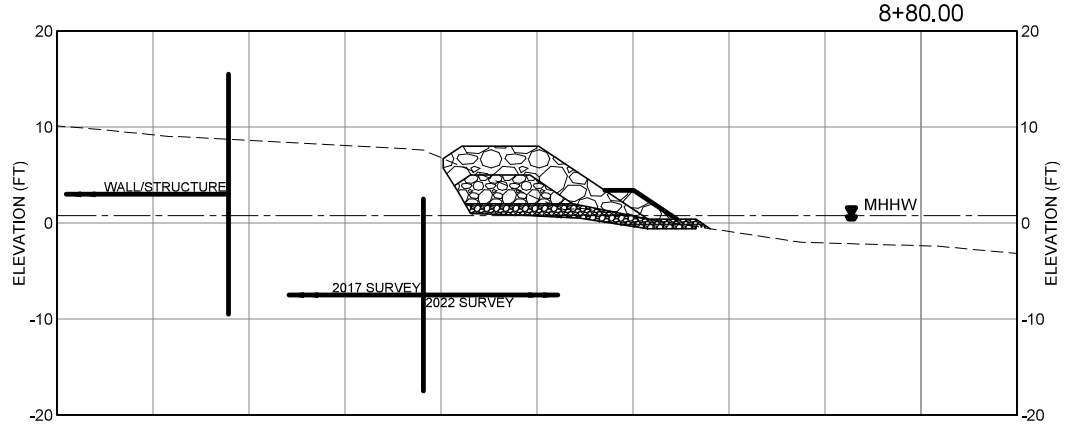

NOTE:

REFER TO LANDSCAPE PLANS FOR FINISHED DETAILS

TIDES

0.79'	MHHW (HTL)
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.

10' 0' 10' 20'

SCALE: 1"=10'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

△ REVISIONS

moffatt & nichol

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PROJECT
FRENCHMAN'S REEF
SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
REVETMENT SECTIONS ALONG THE BEACH (2 OF 4)

SHEET NUMBER
ZCE-325

INDEX: 10 OF 14

KOLLIN ALTOMARE ARCHITECTS, INC EXPRESSLY RESERVES ALL COMMON LAW COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, INC

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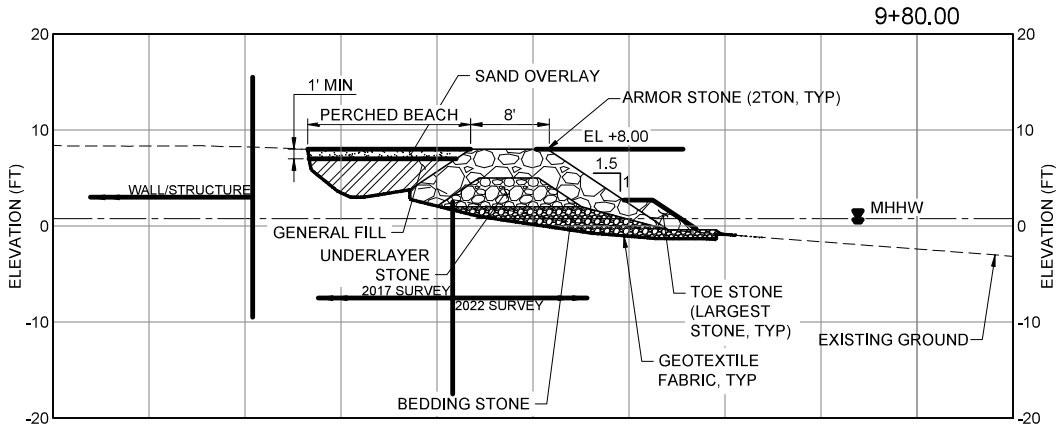
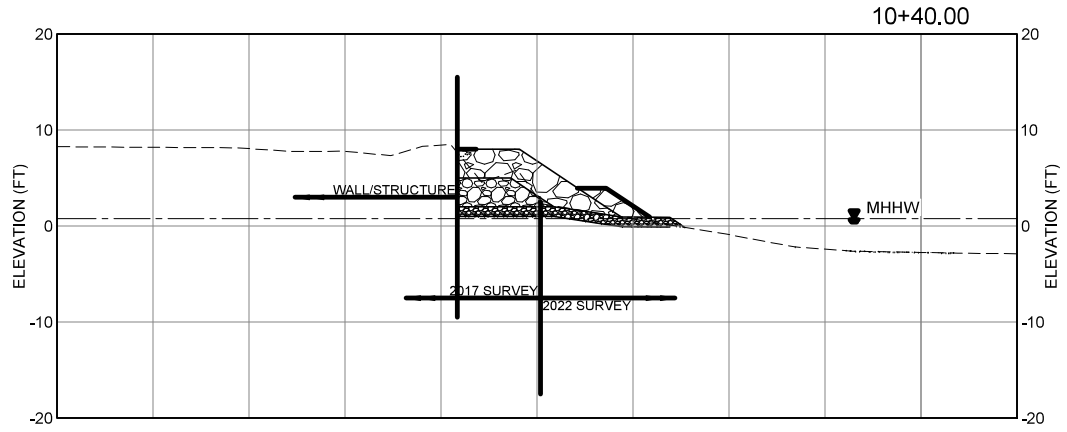
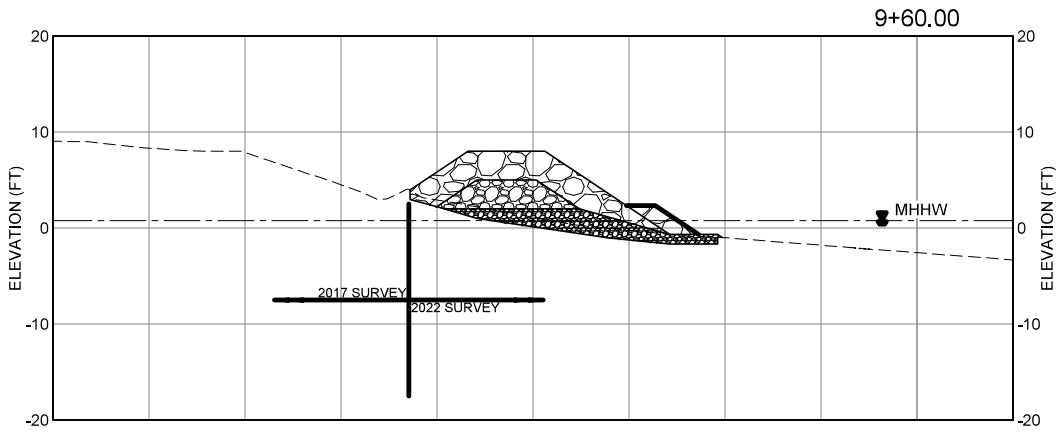
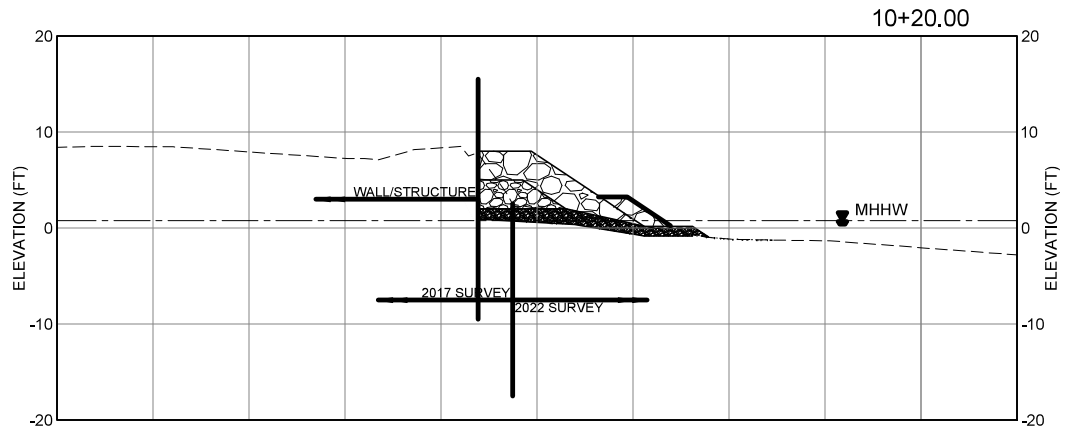
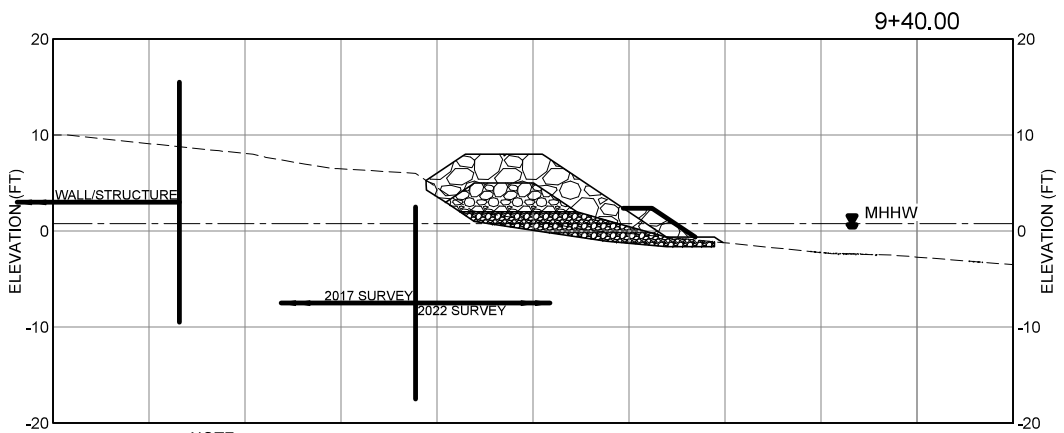
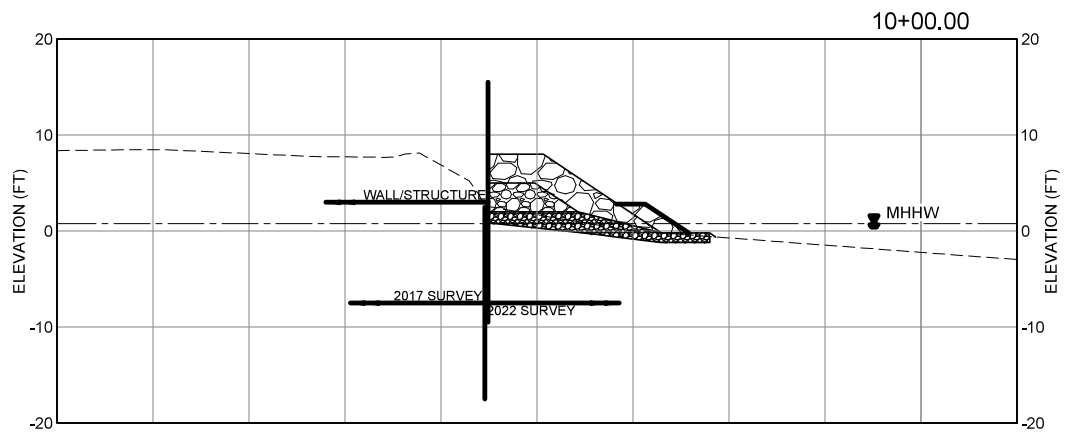








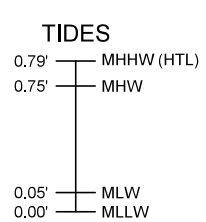




NOTE:

REFER TO LANDSCAPE PLANS FOR FINISHED DETAILS

NOTE:



NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.

SCALE: 1"=10'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

△ REVISIONS

moffatt & nichol

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PROJECT

FRENCHMAN'S REEF
SITE LANDSCAPE

5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
REVETMENT SECTIONS ALONG THE BEACH (3 OF 4)

SHEET NUMBER
ZCE-326

INDEX: 11 OF 14

KOLLIN ALTOMARE ARCHITECTS AND MOFFATT & NICHOL RETAIN ALL COMMON LAW COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, INC

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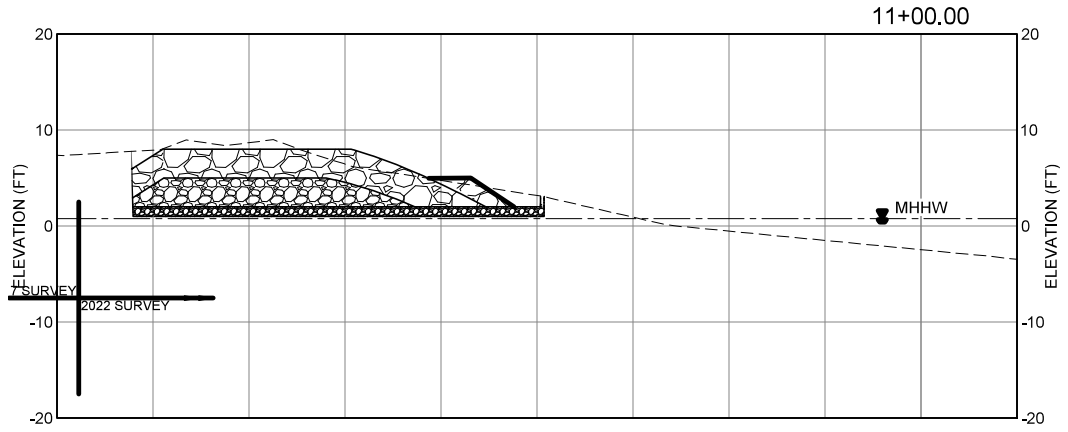

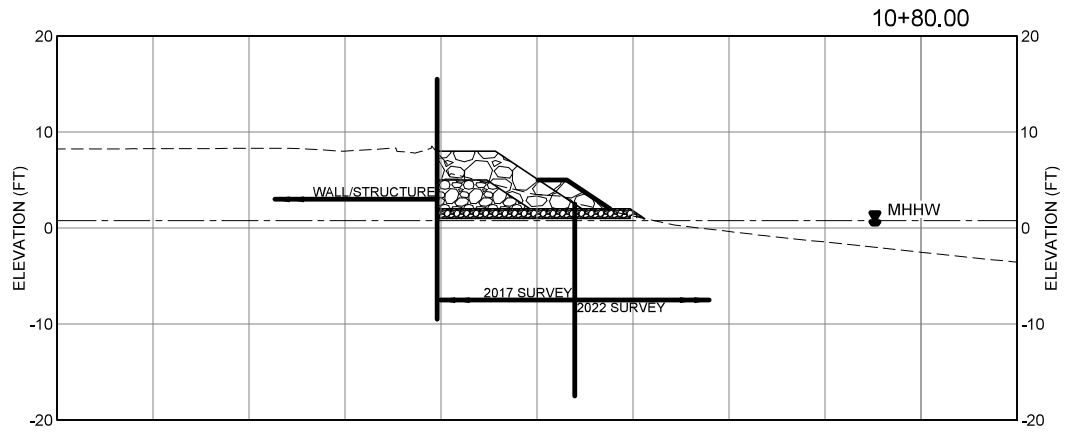

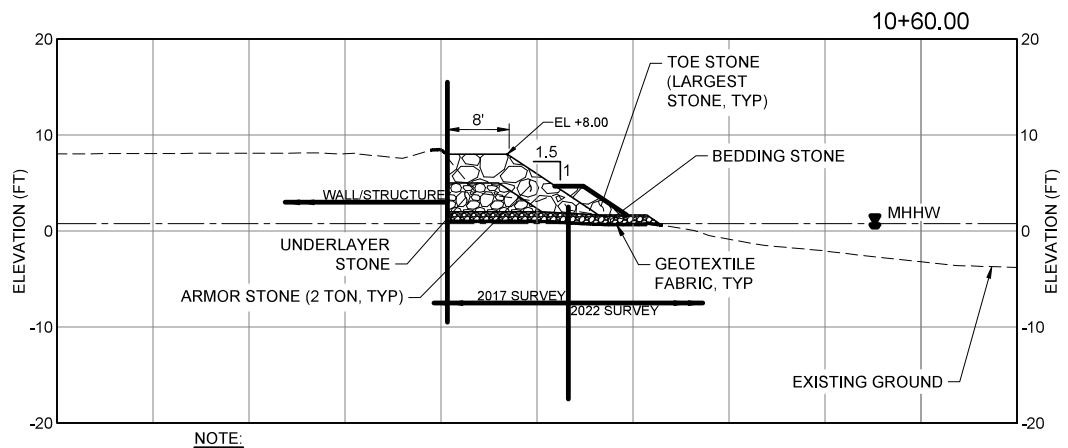

NOTE:

REFER TO LANDSCAPE PLANS FOR FINISHED DETAILS

TIDES

0.79'	MHHW (HTL)
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

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SCALE: 1"=10'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

△ REVISIONS

moffatt & nichol

ARCHITECT OF RECORD

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PROJECT

FRENCHMAN'S REEF
SITE LANDSCAPE

5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
REVETMENT SECTIONS ALONG THE BEACH (4 OF 4)

SHEET NUMBER
ZCE-327

INDEX: 12 OF 14

COPIES IN ANY FORM OR MANNER WHATSOEVER, NOW ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, AND
KOLLIN ALTOMARE ARCHITECTS AND ENGINEERS ALL COMMON LAW COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF KOLLIN ALTOMARE ARCHITECTS, INC.

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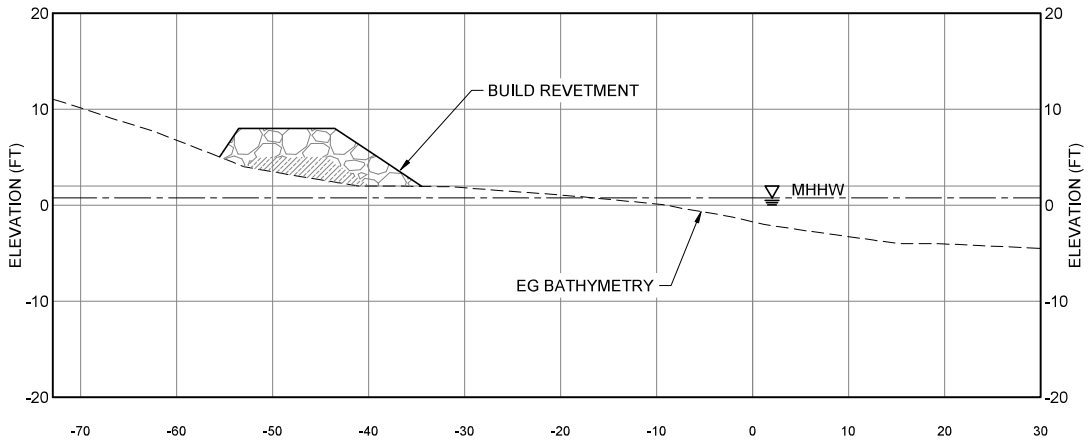
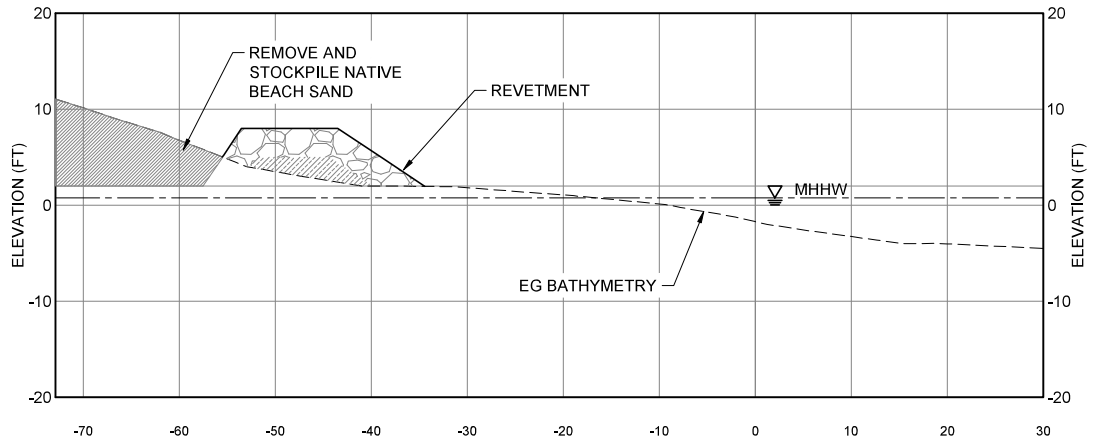
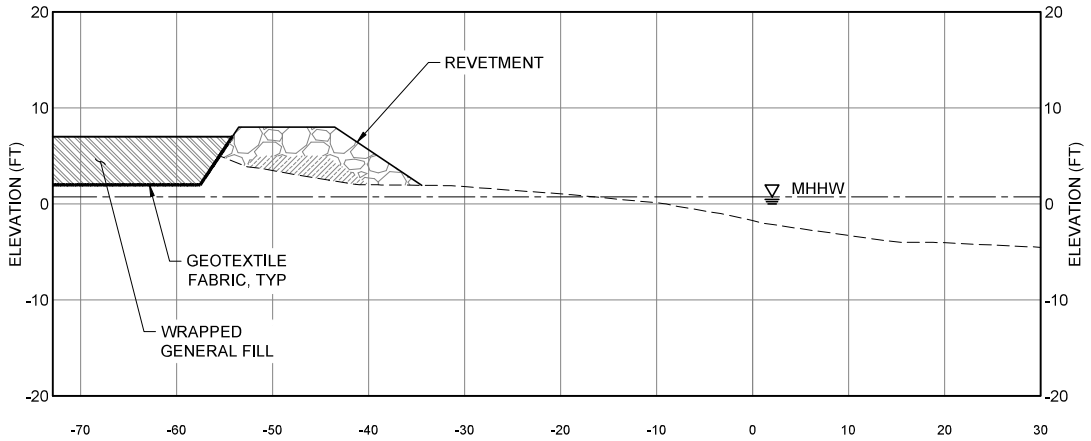


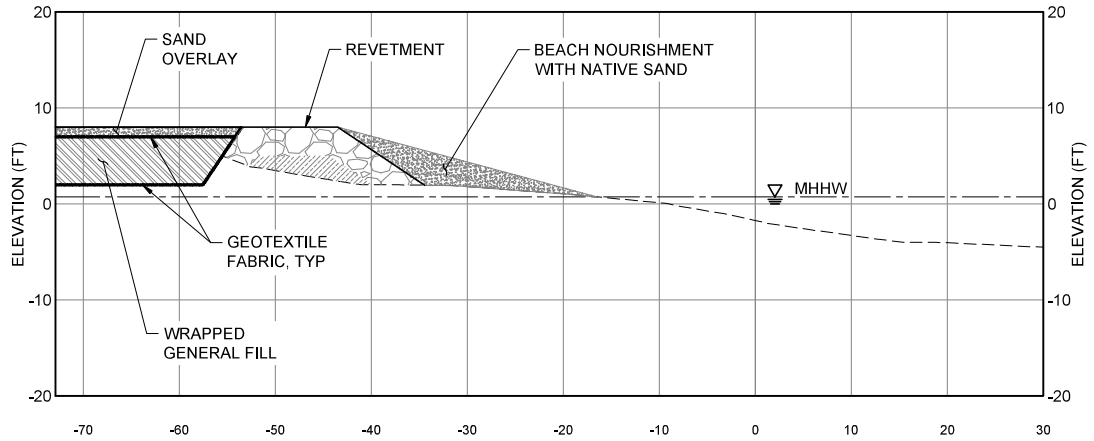
2. REMOVE AND STOCK PILE NATIVE BEACH SAND



3. LANDSIDE FILL WITH GEOTUBES OR SEALED GENERAL FILL



4. NOURISH BEACH WITH NATIVE SAND ABOVE MHHW



TIDES

0.79'	MHHW
0.75'	MHW
0.05'	MLW
0.00'	MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
2. HTL SURVEY BY BIOIMPACT, INC. ON SEPTEMBER 13, 2022. ELEVATION VARIES.

10' 0' 10' 20'

SCALE: 1"=10'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:

PICKLE BALL

REVISIONS

moffatt & nichol

ARCHITECT OF RECORD

Kollin Altomare Architects

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PROJECT

FRENCHMAN'S REEF SITE LANDSCAPE

5 ESTATE BAKKEROE, ST. THOMAS U.S.
VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
DIAGRAMATIC CONSTRUCTION METHODS

SHEET NUMBER
ZCE-328

INDEX: 13 OF 14

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File: Q:\TA\10756\0500_CADI_Active_Shoreline Improvements\10756-ZCE-328 ; Plotted: 9/29/2022 9:00 AM by DURAN, JESUS ; Saved: 9/19/2022 3:53 PM by JDURAN

NOTE:

1. STAGING AREA FOR MATERIAL AND EQUIPMENT DEPENDENT ON PROJECT PHASING AND CONSTRUCTION START DATE. STAGING AREA TO BE COORDINATED WITH OWNER PRIOR TO CONSTRUCTION.
2. BEACH CONDITIONS SHOWN AT TIME OF PHOTOGRAPH AND MAY NOT REPRESENT THE CONDITIONS DURING CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ACCESS PRIOR TO START OF CONSTRUCTION.

TIDES

0.79' MHHW
0.75' MHW
0.05' MLW
0.00' MLLW

NOTES:

1. ELEVATIONS IN FEET REFERENCED TO MLLW, ACCORDING TO ST THOMAS, CHARLOTTE AMALIE, VI - STATION ID:9751639.
2. HTL SURVEY BY BIOIMPACT, INC. ON SEPTEMBER 13, 2022. ELEVATION VARIES.

60' 0' 60' 120'
SCALE: 1"=60'

IFC
ISSUED: 2022-09-29

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ISSUED FOR:
PICKLE BALL

REVISIONS

moffatt & nichol

ARCHITECT OF RECORD
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Chicago, IL 60610
t: 312.471.8760

PROJECT
FRENCHMAN'S REEF SITE LANDSCAPE
5 ESTATE BAKKEROE, ST. THOMAS U.S. VIRGIN ISLANDS 00802

JOB NUMBER
2021-16

DATE
2022-06-15

SHEET NAME
STAGING AND ACCESS PLAN

SHEET NUMBER
ZCE-103

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