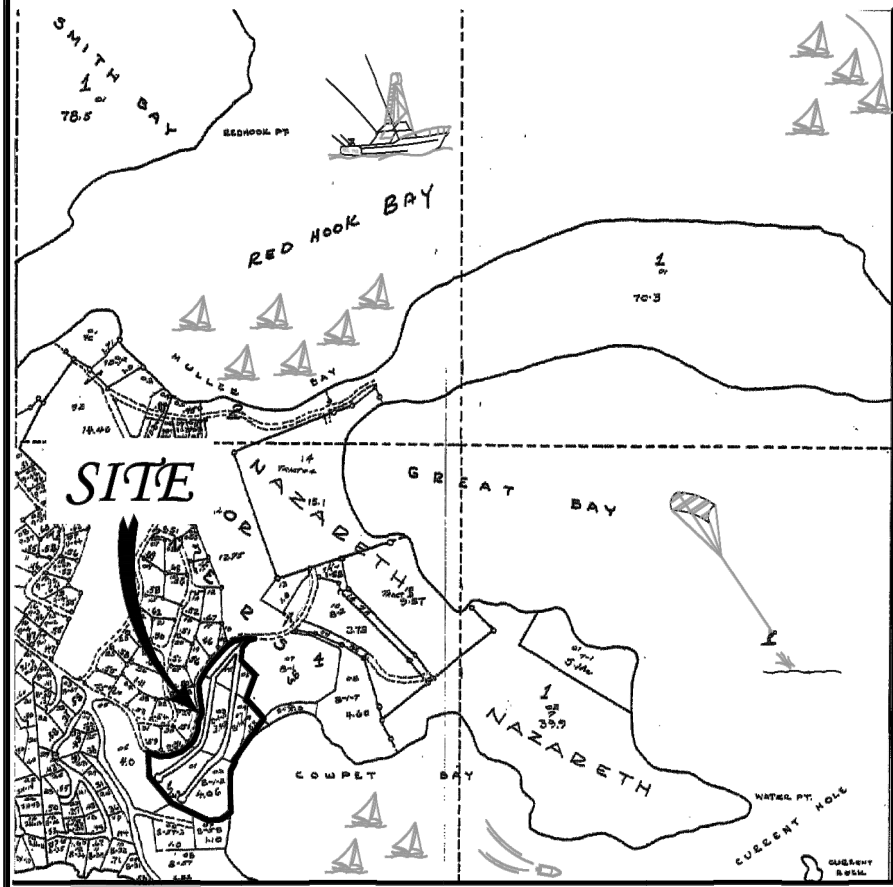
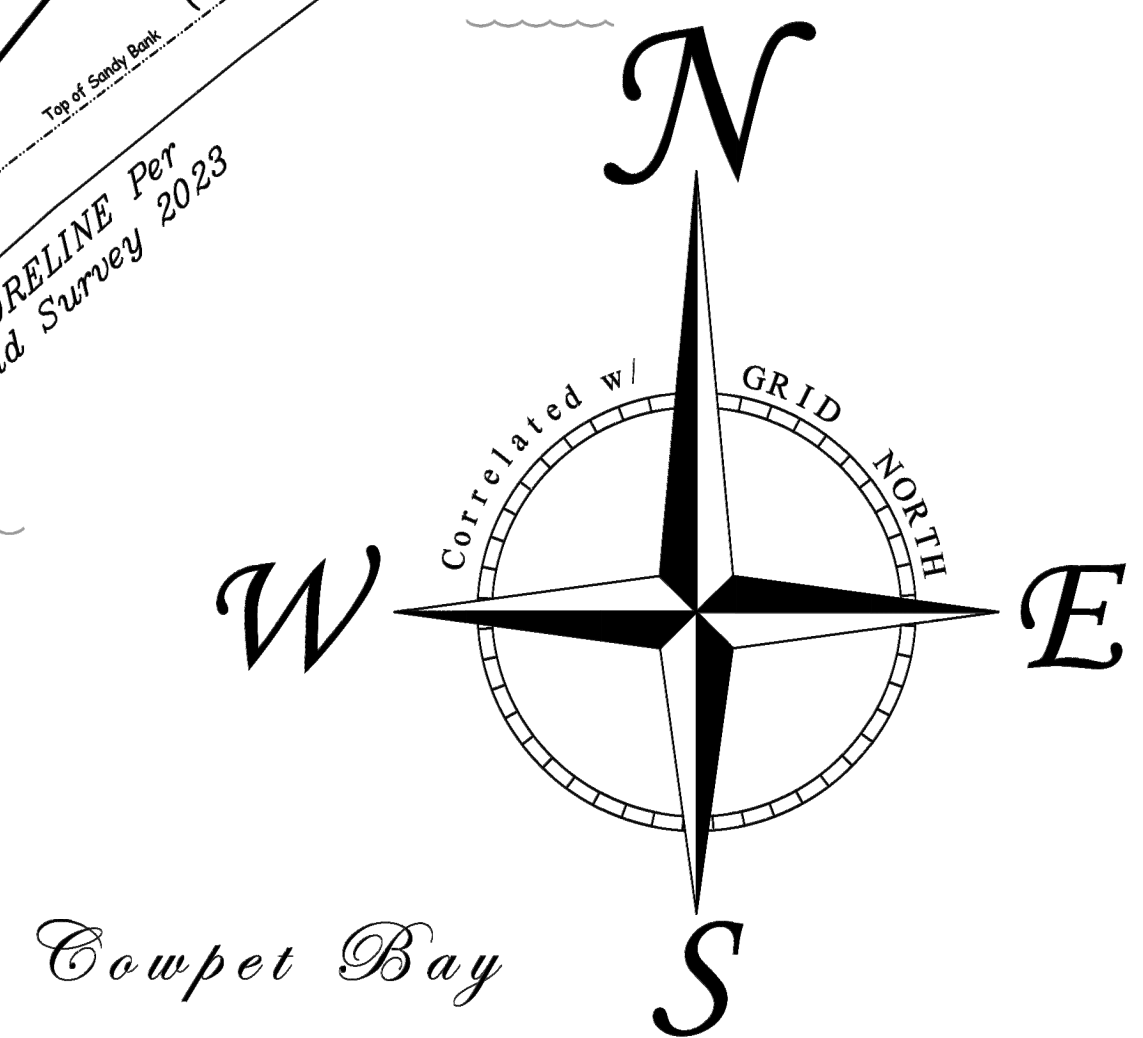
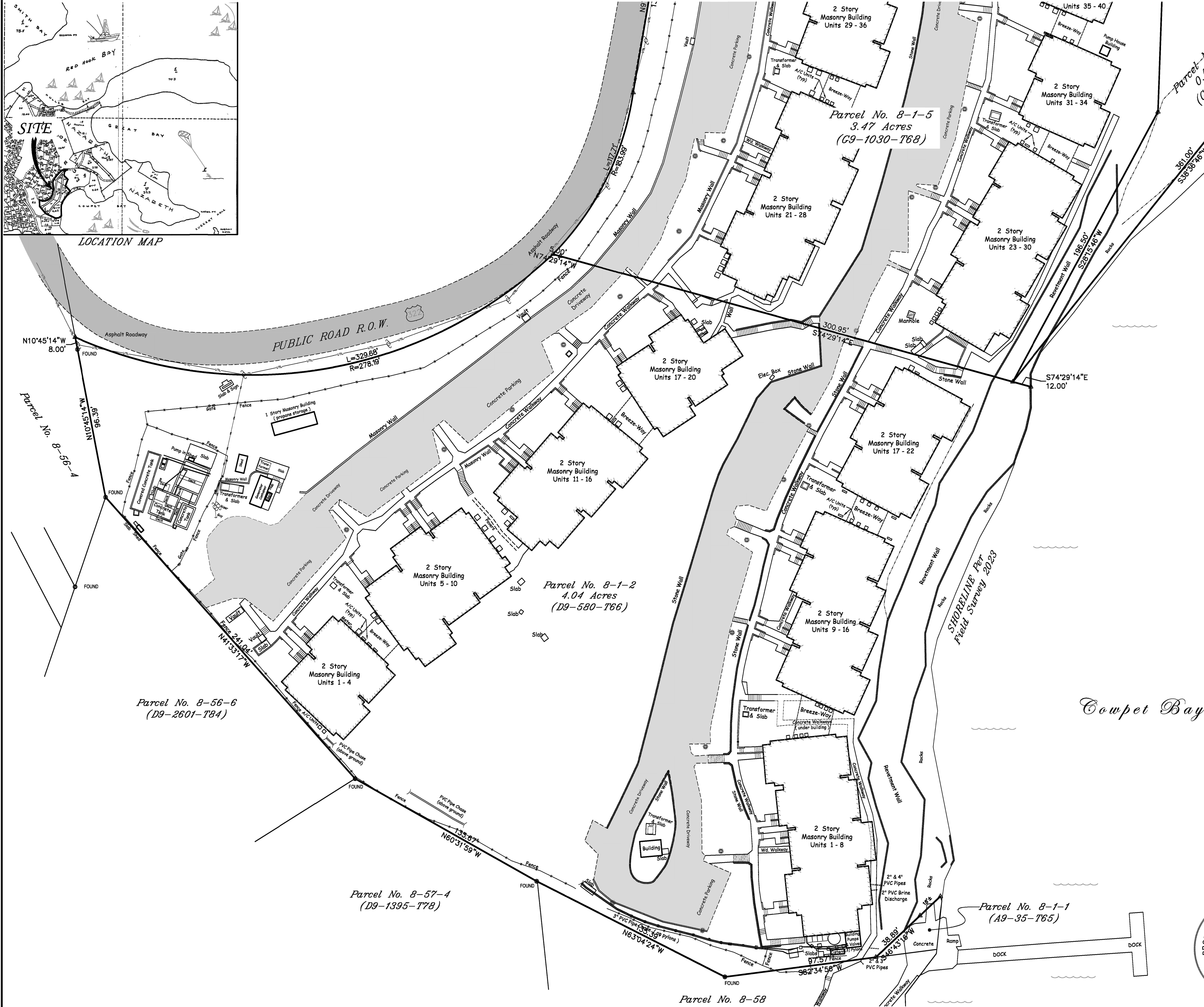


A0.01



LOCATION MAP

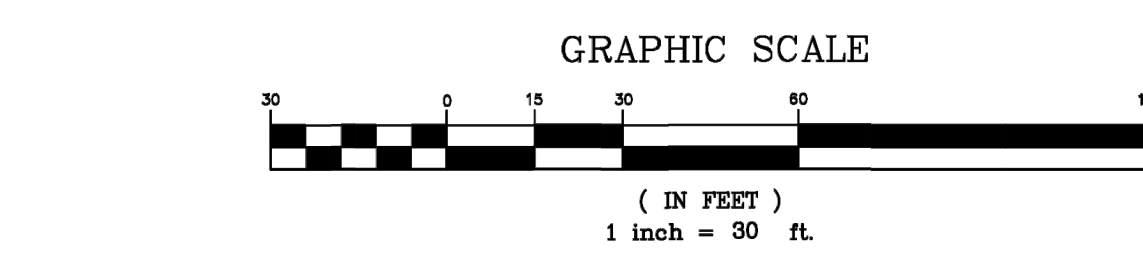


- LEGEND**
- UNMARKED POINT
 - REBAR BOUNDPOST
 - UTILITY POLE & LINES
 - FENCE
 - LIGHT POLE

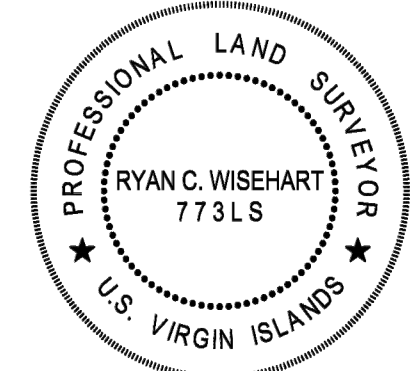
REFERENCE
AS NOTED

ZONING
R-3

NOTE :
DATA IN BRACKETS { xxx } PER FILED MAP, WHERE DIFFERENT FROM ACTUAL FIELD MEASUREMENTS.



Brian Moseley Associates, Inc.
Land Surveyors & Consultants
4003 RAPHUNE HILL ROAD SUITE 606
ST. THOMAS, VI 00802
PHONE (340) 774-5310
FAX (340) 776-4090



Existing Conditions Survey of
Parcels No. 8-1-2, 8-1-3, 8-1-4, 8-1-5 & 8-1-6
Estate Nazareth - No. 1 Red Hook Quarter
St. Thomas, U.S. Virgin Islands

SURVEY: A. G. B.	DATE: 01-04-2023	DWG No.: 7136-1
CALC: R. C. W.	APPROVED: Ryan C. Wisheart	SHEET NO. 2 of 2
DRAWN: D. J. S.		
SCALE: 1" = 30'		

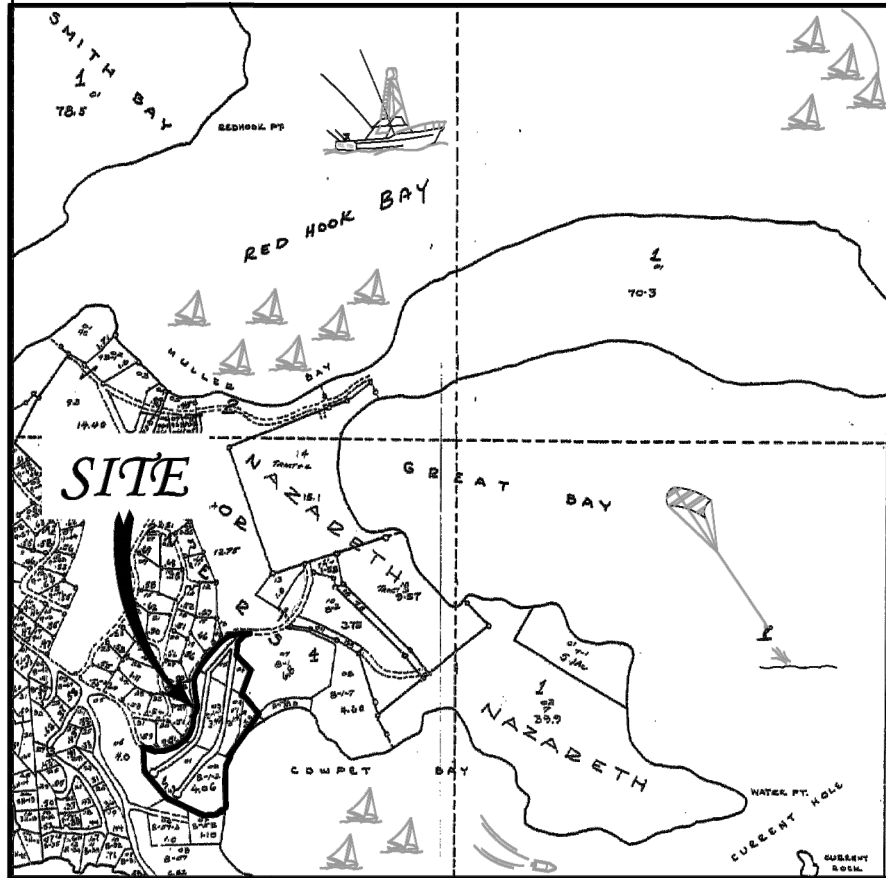
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SEAL:
REGISTERED ARCHITECT
EMILY BURTON
17104
U.S. VIRGIN ISLANDS

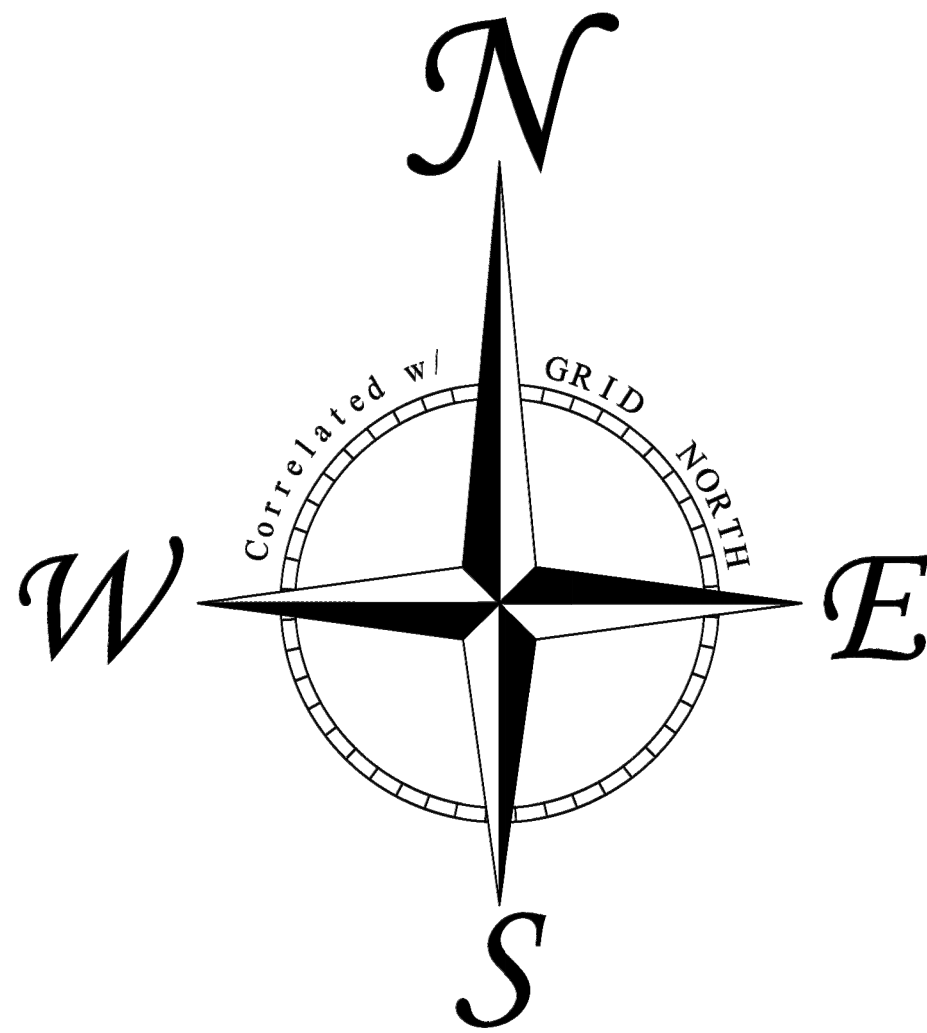
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REV.	DATE	DESCRIPTION
11/20/2025		CZM MODIFICATION
10/29/2023		CZM RESUBMISSION
08/09/2023		CZM SUBMISSION

PROJECT NUMBER:	23_01_2023
DRAWN BY:	EH
REVIEWED BY:	EH
PROJECT MANAGER:	EH
OWNER:	
COWPET BAY WEST 8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI 00802	
PROJECT: COWPET BAY WEST SEAWATER INTAKE 8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI	
SHEET TITLE: SURVEY	
SHEET NUMBER: C1.01	



LOCATION MAP



LEGEND

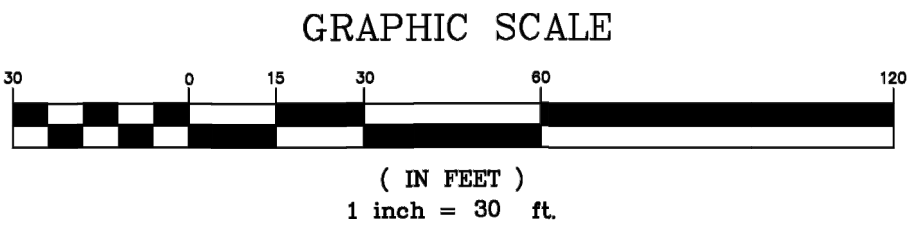
- UNMARKED POINT
- REBAR BOUNDPOST
- UTILITY POLE & LINES
- FENCE
- LIGHT POLE

REFERENCE
AS NOTED

ZONING
R-3

NOTE :

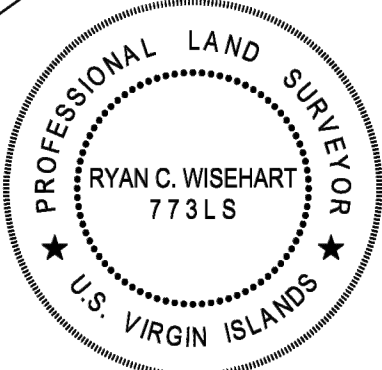
DATA IN BRACKETS { xxx } PER FILED MAP, WHERE DIFFERENT FROM ACTUAL FIELD MEASUREMENTS.



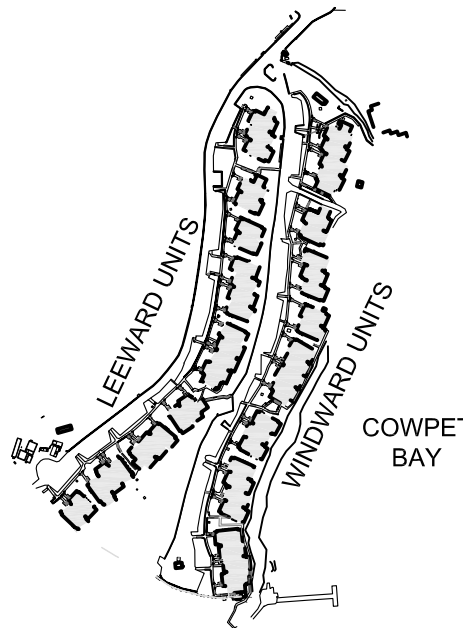
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St. Thomas, U.S. Virgin Islands

SURVEY:	A. G. B.	DATE:	01-04-2023	DWG NO.:	7136-1
CALC.:	R. C. W.	APPROVED:	<i>Ryan C. Wisehart</i>	SHEET NO.:	1 of 2
DRAWN:	D. J. S.				
SCALE:	1" = 30'				



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PROJECT NUMBER:	23_01_2023
DRAWN BY:	EH
REVIEWED BY:	EH
PROJECT MANAGER:	EH
OWNER:	

COWPET BAY WEST
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802

PROJECT:
COWPET BAY WEST SEAWATER INTAKE
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI

SHEET TITLE:
SURVEY

SHEET NUMBER:

C1.02

INTAKE LINE:
SEAWATER INTAKE PIPING SHALL BE PVC, SCHEDULE 80, PRESSURE-RATED, SUITABLE FOR CONTINUOUS SEAWATER SERVICE. PROVIDE SOLVENT-CEMENTED JOINTS UNLESS OTHERWISE NOTED. ALL FITTINGS AND VALVES SHALL BE PVC OR CPVC, SCHEDULE 80, WITH EPDM OR VITON SEALS COMPATIBLE WITH SALT WATER. PROVIDE UV-RESISTANT COATING OR PAINT WHERE EXPOSED TO SUNLIGHT.

INSTALL PIPING WITH CONTINUOUS SLOPE TOWARD THE INTAKE SCREEN. PROVIDE ADEQUATE PIPE SUPPORTS AND THRUST RESTRAINTS. ENSURE PIPE INTERIOR IS CLEAN AND FREE OF DEBRIS PRIOR TO CONNECTION TO THE RO SYSTEM.

THE SEAWATER INTAKE SYSTEM SHALL BE DESIGNED TO DELIVER APPROXIMATELY 40 GALLONS PER MINUTE (GPM) TO SUPPORT AN OVERALL 1,000 GALLON PER DAY (GPD) REVERSE OSMOSIS PLANT CAPACITY. SYSTEM COMPONENTS SHALL BE SIZED ACCORDINGLY FOR CONTINUOUS OPERATION AND PEAK DEMAND CONDITIONS.

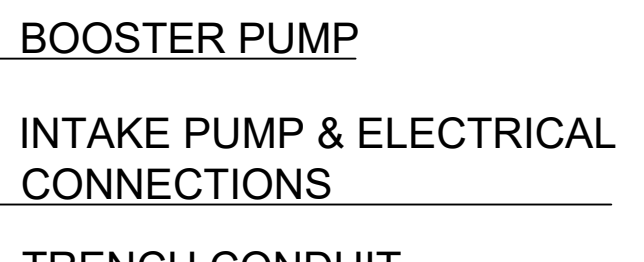
PROVIDE A CORROSION-RESISTANT STAINLESS STEEL OR HDPE INTAKE SCREEN WITH REMOVABLE END CAP FOR CLEANING AND MAINTENANCE. SCREEN OPENINGS SHALL BE SIZED TO PREVENT ENTRY OF MARINE LIFE AND DEBRIS.

PROVIDE A SEAWATER SERVICE BOOSTER PUMP CAPABLE OF LIFTING THE INTAKE FLOW FROM THE SHORELINE UPHILL TO THE REVERSE OSMOSIS PLANT. PUMP SHALL BE MARINE-GRADE, NON-METALLIC OR BRONZE-FITTED, SELF-PRIMING, AND SUITABLE FOR CONTINUOUS DUTY IN SALT WATER APPLICATIONS. ALL WETTED COMPONENTS SHALL BE CORROSION-RESISTANT.

OUTDOORS

ELECTRICAL CONDUITS FOR PUMP POWER AND CONTROL SHALL BE INSTALLED ABOVE GRADE AND SUPPORTED ON EXISTING CONCRETE SITE PYLONS. CONTRACTOR SHALL INSTALL NEW CONCRETE PYLONS AS REQUIRED TO MAINTAIN CONTINUOUS SUPPORT FOR ALL CONDUITS AND PIPING FROM THE SHORELINE TO THE REVERSE OSMOSIS PLANT. ALL CONDUIT RUNS SHALL BE NEATLY ALIGNED, PROTECTED FROM MECHANICAL DAMAGE, AND SECURED TO PREVENT MOVEMENT OR VIBRATION.

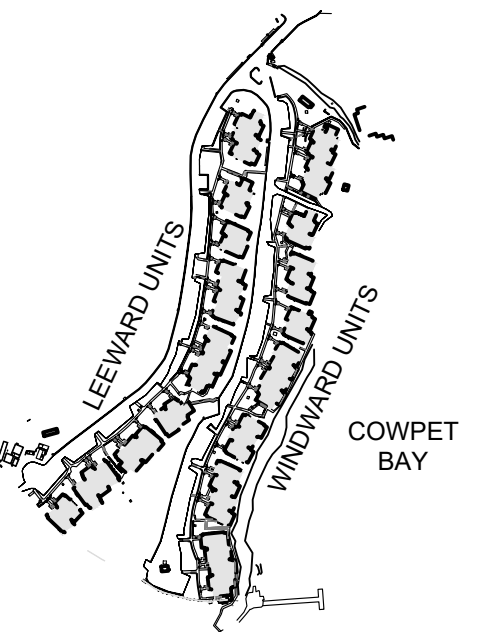
PRESSURE TEST ALL PIPING PRIOR TO CONNECTION TO THE R.O. EQUIPMENT. VERIFY BOOSTER PUMP PERFORMANCE, FLOW RATE, AND HEAD MATCH DESIGN REQUIREMENTS. DOCUMENT TEST RESULTS PRIOR TO FINAL CONNECTION AND START-UP.



SEE 3/A1.02

35-T65)

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PROJECT NUMBER: 23 01 2023

EH

EH

EH

8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH

COWPET BAY WEST

SEAWATER INTAKE

ST. THOMAS, VI

SEAWATER INTAKE

SHEET NUMBER: _____

A1 01

A1.01

4" PVC PIPE COUPLINGS RIGIDLY AFFIXED TO THE EXISTING DOCK, SUPPORT THE WEIGHT OF THE PIPE AND ALLOW IT TO SLIDE DURING DOCK MOVEMENT.

EXISTING DOCK DECK

DOCK DETAIL
SCALE: 3/4" = 1'-0"

1

"UNISTRUT UNI-CUSHION P2600" TO ISOLATE PIPE FROM METAL STUDWORK AND CLIPS TO PREVENT ELECTROLYTIC CORROSION

"UNISTRUT" SADDLE CLIP

TYPICAL SADDLE CLIP MOUNTING

DOCK DETAIL
SCALE: 3/4" = 1'-0"

2

WEDGE WATER SEAWATER INTAKE SCREEN MOUNTED 48" BELOW DOCK ON DOCK PILE

4'-0"

WEDGE WIRE INTAKE AT DOCK
SCALE: 3/4" = 1'-0"

3

ARCHITECT

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(404) 244-7191

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	10/29/2023	CZM RESUBMISSION
	08/09/2023	CZM SUBMISSION

PROJECT NUMBER: 23_01_2023

DRAWN BY: EH

REVIEWED BY: EH

PROJECT MANAGER: EH

OWNER: COWPET BAY WEST
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI 00802

PROJECT: COWPET BAY WEST SEAWATER INTAKE
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI

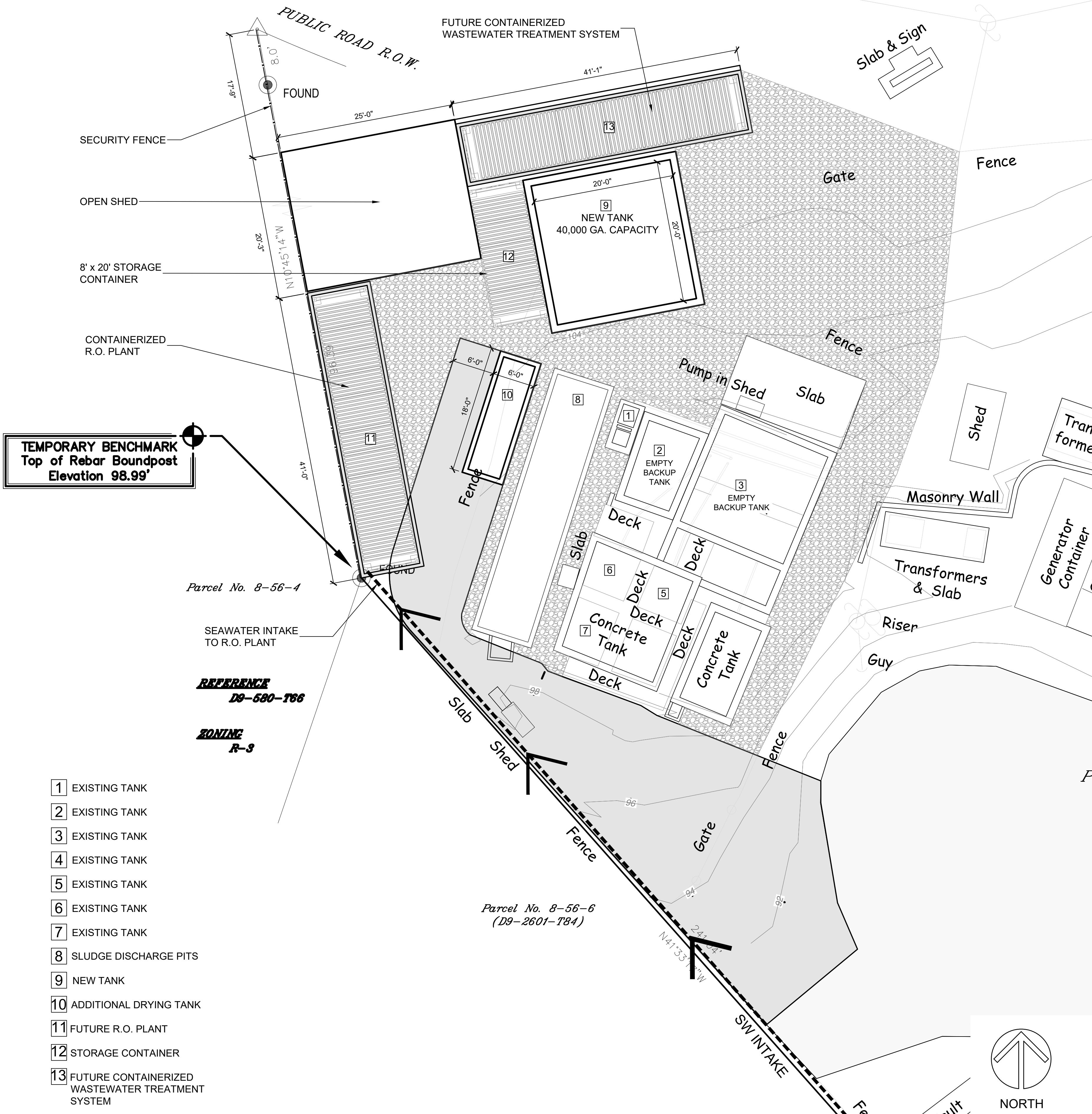
SHEET TITLE: SEAWATER INTAKE DETAILS

SHEET NUMBER: A1.02



PROGRESS IMAGE OF CURRENT SITE DEVELOPMENT

SCALE: NTS



WASTEWATER TREATMENT PLANT SITE PLAN

SCALE: 1/64" = 1'-0"

EBA

EMILY BURTON ARCHITECTURE

ARCHITECT

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EH

REVIEWED BY:

EH

PROJECT MANAGER:

EH

OWNER:

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8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802

PROJECT:

COWPET BAY WEST SEAWATER INTAKE
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI

SHEET TITLE:

WATER TREATMENT PLANT SITE PLAN

SHEET NUMBER:

A1.03