

BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY

BAY PARK MARINA IMPROVEMENTS

CONTRACT NO. XXX



JANUARY 2024

MAYOR

JOHN McCORRISTIN

BOROUGH COUNCIL

JAMIE McDERMOTT, PRESIDENT

MARI COSKEY, VICE PRESIDENT

GREG JOHNSON

BARBARA JUZAITIS

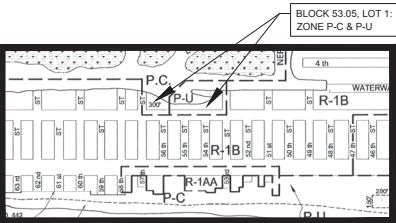
SAM WIERMAN

BOROUGH ADMINISTRATOR

SCOTT J. WAHL

BOROUGH CLERK

DANIELLE NOLLETT, RMC/CMR



ZONING MAP
No Scale



LOCATION MAP
No Scale

M M
MOTT
MACDONALD

Certificate No. 24GA28016600

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Freehold, NJ 07728
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E-1

PUBLIC UTILITIES

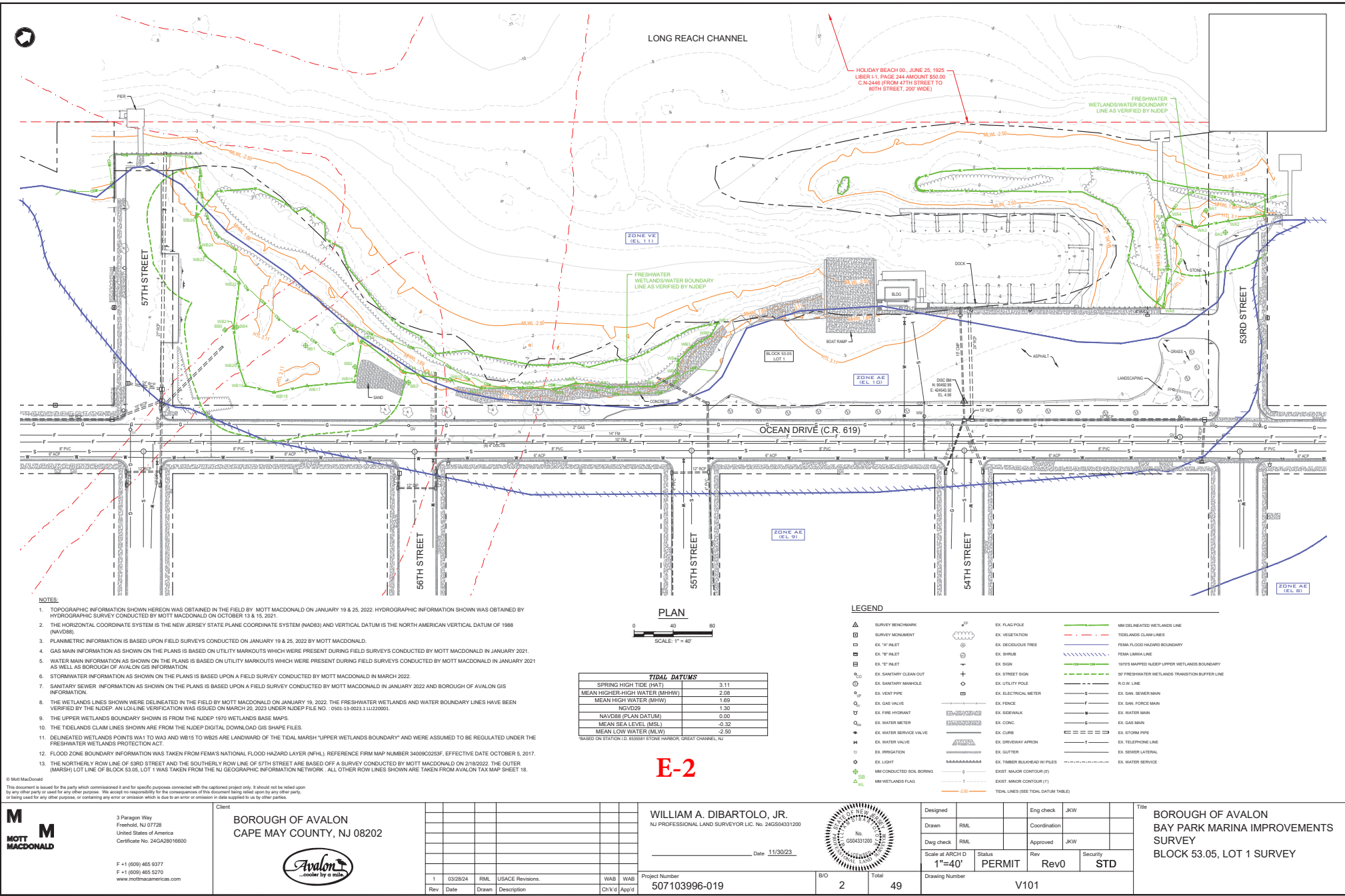
SANITARY SEWER & WATER	UTILITY SERVICE AFFILIATES 1401 DUNE DRIVE AVALON, NJ 08202 732.754.0285 - BUSINESS HOURS 609.692.5443 - AFTER HOURS CAPE MAY COUNTY M.U.A. P.O. BOX 910 CAPE MAY COURT HOUSE, NJ 08210 609.485.8026 ATTN: THOMAS J. LAROCCHIO, P.E.
GAS	SOUTH JERSEY GAS COMPANY 1708 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609.485.2600 ATTN: WILLIAM WENGERT
ELECTRIC	ATLANTIC CITY ELECTRIC COMPANY 420 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609.483.3817 ATTN: THOMAS C. RINCK
TELEPHONE	VERIZON ENGINEERING DEPARTMENT 10 TANSBORD ROAD FLOOR 2 BERLIN, NJ 08009 609.487.5115 ATTN: ELLIOTT BATTERMAN
CABLE TV	COMCAST CABLE SERVICES 609.677.7332 ATTN: BOB MAYEUX
CAPE MAY COUNTY ROADS	CAPE MAY COUNTY DEPARTMENT OF PUBLIC WORKS 4 MOORE ROAD CAPE MAY COURT HOUSE, NJ 08210 609.485.7005 ATTN: ROBERT CHURCH, P.E.

INDEX OF DRAWINGS

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3	D101	DEMOLITION PLAN	11-30-23	
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5	LA-2	SITE PLAN - KAYAK BEACHES/SHRIMP PIER (55TH STREET)	11-27-23	03-27-24
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49	S305	SECTIONS (5 OF 5)	11-30-23	

THOMAS R. THORNTON
Professional Engineer
N.J. License No. 24GE04177000

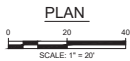




- NOTES:**
1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED IN THE FIELD BY MOTT MACDONALD ON JANUARY 19 & 25, 2022. HYDROGRAPHIC INFORMATION SHOWN WAS OBTAINED BY HYDROGRAPHIC SURVEY CONDUCTED BY MOTT MACDONALD ON OCTOBER 13 & 15, 2021.
 2. THE HORIZONTAL COORDINATE SYSTEM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83) AND VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
 3. PLANIMETRIC INFORMATION IS BASED UPON FIELD SURVEYS CONDUCTED ON JANUARY 19 & 25, 2022 BY MOTT MACDONALD.
 4. THE NORTHERLY ROW LINE OF 50TH STREET AND THE SOUTHERLY ROW LINE OF 57TH STREET ARE BASED OFF A SURVEY CONDUCTED BY MOTT MACDONALD ON 2/18/2022. THE OUTER MARSH LOT LINE OF BLOCK 53.05, LOT 1 WAS TAKEN FROM THE NJ GEOGRAPHIC INFORMATION NETWORK. ALL OTHER ROW LINES SHOWN ARE TAKEN FROM AVALON TAX MAP SHEET 18.
 5. GAS MAIN INFORMATION AS SHOWN ON THE PLANS IS BASED ON UTILITY MARKOUTS WHICH WERE PRESENT DURING FIELD SURVEYS CONDUCTED BY MOTT MACDONALD IN JANUARY 2021.
 6. WATER MAIN INFORMATION AS SHOWN ON THE PLANS IS BASED ON UTILITY MARKOUTS WHICH WERE PRESENT DURING FIELD SURVEYS CONDUCTED BY MOTT MACDONALD IN JANUARY 2021 AS WELL AS BOROUGH OF AVALON GIS INFORMATION.
 7. STORMWATER INFORMATION AS SHOWN ON THE PLANS IS BASED UPON A FIELD SURVEY CONDUCTED BY MOTT MACDONALD IN MARCH 2022.
 8. SANITARY SEWER INFORMATION AS SHOWN ON THE PLANS IS BASED UPON A FIELD SURVEY CONDUCTED BY MOTT MACDONALD IN JANUARY 2022 AND BOROUGH OF AVALON GIS INFORMATION.

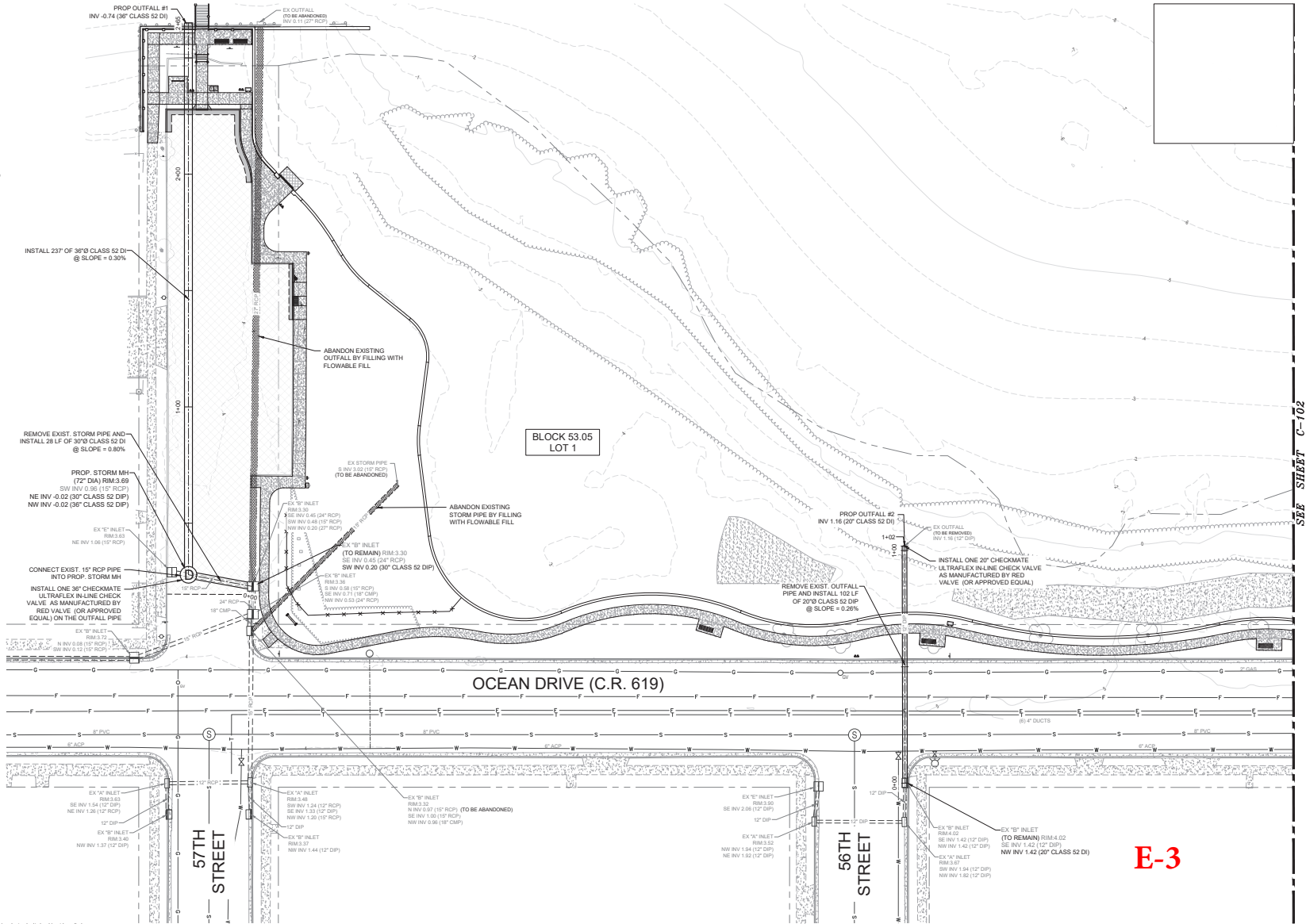
TIDAL DATUMS	
SPRING HIGH TIDE (MHT)	3.11
MEAN HIGHER-HIGH WATER (MHHW)	2.38
MEAN HIGH WATER (MHW)	1.69
NGVD29	1.30
NAVD83 (PLAN DATUM)	0.00
MEAN SEA LEVEL (MSL)	-0.32
MEAN LOW WATER (MLW)	-2.50

*BASED ON STATION I.D. 835581 STONE HARBOR, GREAT CHANNEL, NJ



LEGEND

- EX "A" INLET
- EX "B" INLET
- EX "C" INLET
- PROP. "A" INLET
- PROP. STORM MANHOLE
- PROP. NYOPLAST DRAIN BASIN
- PROP. WATER METER
- PROP. WATER SERVICE VALVE
- PROP. SEWER CLEANOUT
- EX. STORM PIPE
- PROP. STORM PIPE
- PROP. ADS N-12 STORM PIPE
- PROP. WATER SERVICE
- PROP. SEWER LATERAL



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BOROUGH OF AVALON
CAPE MAY COUNTY, NJ 08202



THOMAS R. THORNTON
NJ PROFESSIONAL ENGINEER LIC. No. 24GE04177000

Date: 11/30/23



Rev	Date	Drawn	Description	WAB	WAB
1	03/28/24	RML	USACE Revisions.	WAB	WAB
				Ch'd	App'd

Project Number
507103996-019

B/O
15

Total
49

Designed	RML	Eng check	KN/SAC
Drawn	RML	Coordination	
Design check	RML	Approved	TRT
Scale at ARCH D	Status	Rev	Rev0
As Shown	PERMIT	Rev0	STD
Drawing Number	C101		

Title
**BOROUGH OF AVALON
BAY PARK MARINA IMPROVEMENTS
CIVIL
UTILITY AND STORMWATER
IMPROVEMENTS PLAN (SHEET 1 OF 2)**

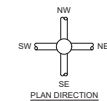


PLAN

20

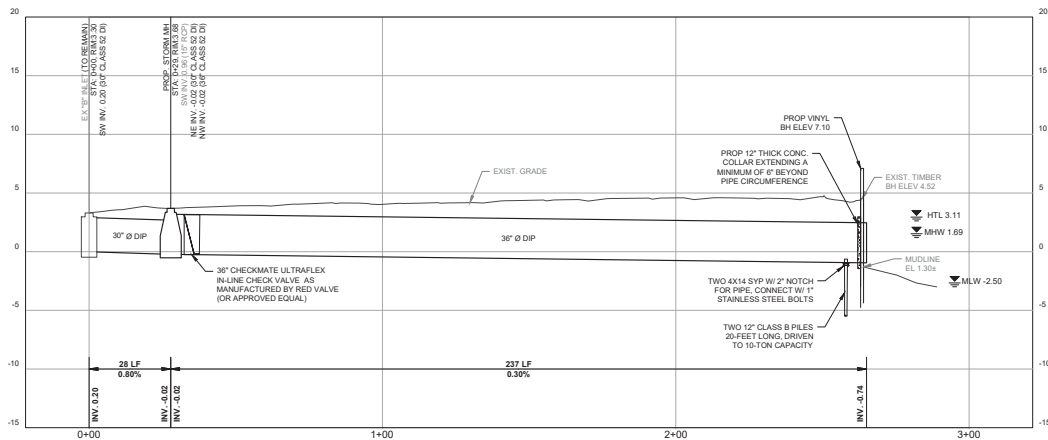
SCALE: 1" = 20'

SPRING HIGH TIDE (HAT)	3.11
MEAN HIGHER-HIGH WATER (MHHW)	2.08
MEAN HIGH WATER (MHW)	1.69
NGVD29	1.30
NAVD88 (PLAN DATUM)	0.00
MEAN SEA LEVEL (MSL)	-0.32
MEAN LOW WATER (MLW)	-2.50

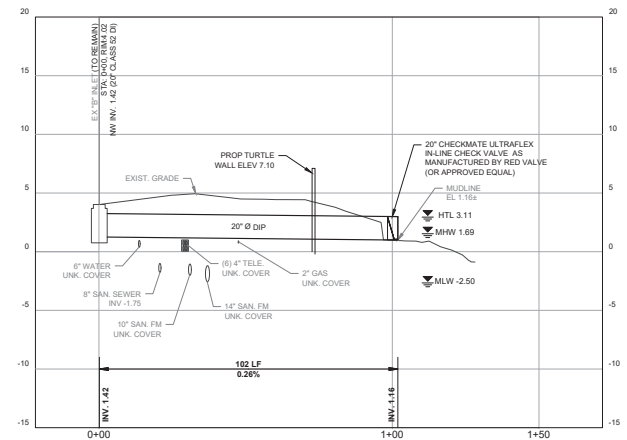


E-4

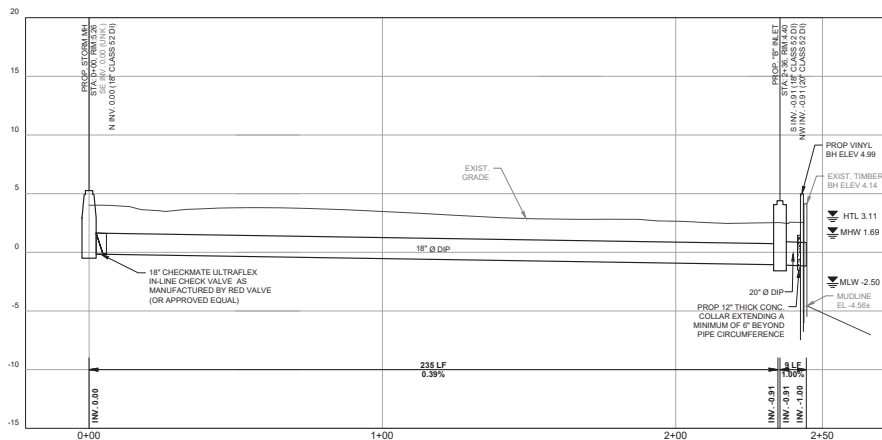
Title	BOROUGH OF AVALON BAY PARK MARINA IMPROVEMENTS CIVIL UTILITY AND STORMWATER IMPROVEMENTS PLAN (SHEET 2 OF 2)
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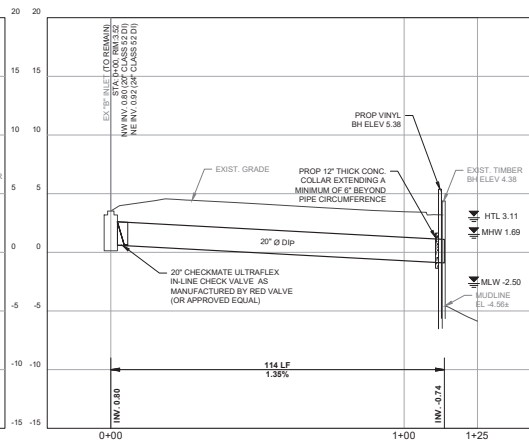
OUTFALL #1 ALIGNMENT



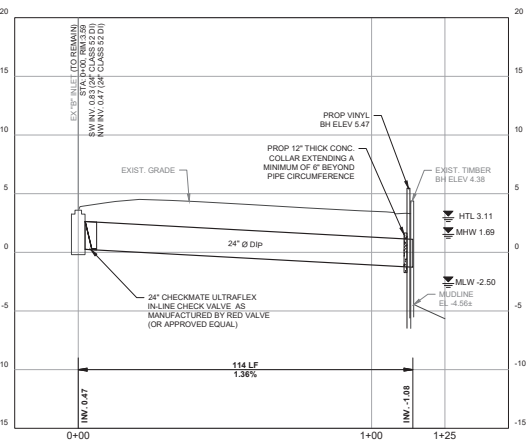
OUTFALL #2 ALIGNMENT



OUTFALL #3 ALIGNMENT



OUTFALL #4 ALIGNMENT



OUTFALL #5 ALIGNMENT

TIDAL DATUMS	
SPRING HIGH TIDE (HAT)	3.11
MEAN HIGH-HIGH WATER (MHHW)	2.08
MEAN HIGH WATER (MHW)	1.69
NGVD25	1.30
NAVD83 (PLAN DATUM)	0.00
MEAN SEA LEVEL (MSL)	-0.32
MEAN LOW WATER (MLW)	-2.50

*BASED ON STATION 10. 803581 STONE HARBOR, GREAT CHANNEL, NJ

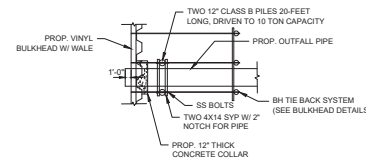
NOTE:
DEPTHS OF WATER MAIN AND GAS MAIN ARE UNKNOWN AND ARE SHOWN BASED UPON TYPICAL DEPTHS. THE LOCATION OF THESE UTILITIES IN THE PROFILE VIEW ARE SHOWN FOR DISPLAY PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DO TEST PITS TO DETERMINE THE ACTUAL DEPTHS OF ANY CONFLICTING UTILITIES PRIOR TO ORDERING ANY MATERIALS.

E-5

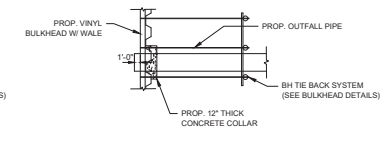
SCALE: 1" = 20'
HORIZONTAL

PROFILE

SCALE: 1" = 0'
VERTICAL



OUTFALL #1 PENETRATION DETAIL



OUTFALL #3-6 PENETRATION DETAIL



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CAPE MAY COUNTY, NJ 08202



THOMAS R. THORNTON
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Date: 11/30/23

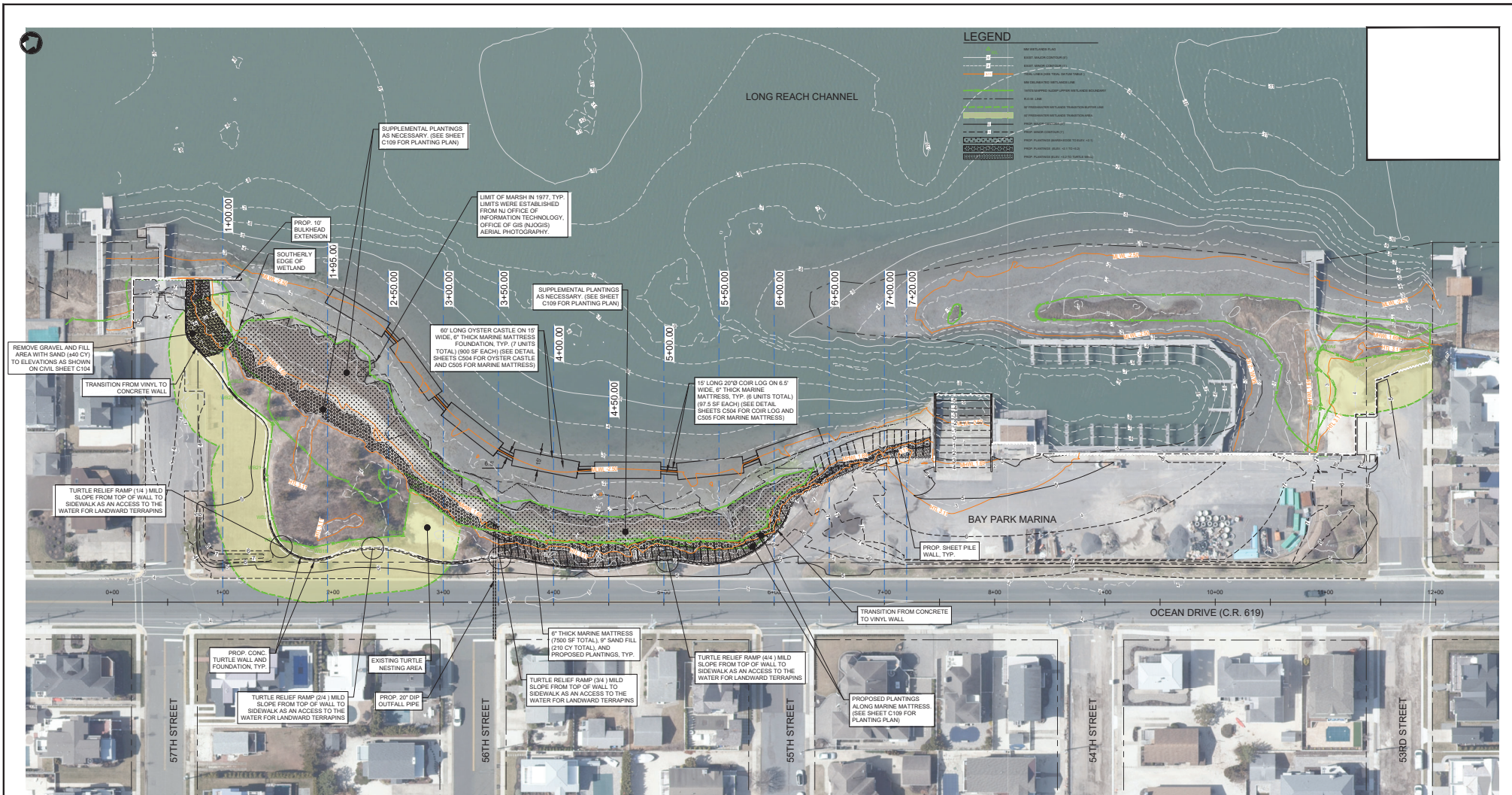


Designed	RML	Eng check	KN/SAC
Drawn	RML	Coordination	
Design check	RML	Approved	TRT
Scale at ARCH'D	Status	Rev	Rev0
As Shown	PERMIT	Rev0	STD
Drawing Number	C103		

Title
BOROUGH OF AVALON
BAY PARK MARINA IMPROVEMENTS
CIVIL
OUTFALL PROFILES



C:\P\WORKING\HMM\WATER_WASTEWATER\MOTT\MAC_LEV82793\DO595284507103996-019-MMD-00-C106-SH-C.DWG
SAVE DATE/TIME: 3/28/2024 10:55:02 AM



1 TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED IN THE FIELD BY MOTT MACDONALD ON JANUARY 19 & 20, 2022. HYDROGRAPHIC INFORMATION SHOWN WAS OBTAINED BY HYDROGRAPHIC SURVEY
2 ON JANUARY 19 & 20, 2022 BY MOTT MACDONALD ON JANUARY 19 & 20, 2022.
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6 MACDONALD.
7 THE NORTHERLY ROW LINE OF 53RD STREET AND THE SOUTHERLY ROW LINE OF 57TH STREET ARE BASED
8 OFF A SURVEY CONDUCTED BY MOTT MACDONALD ON 2/18/2002. THE OUTER (MARSH) LOT ROW LINE OF BLOCK
9 1000 HAS TAKEN DATA FROM THE HYDROGRAPHIC INFORMATION NETWORK. ALL OTHER ROW LINE DATA
11 ARE TAKEN FROM AVALON TAX MAP SHEET 18.

<i>TIDAL DATUMS</i>	
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MEAN LOW WATER (MLW)	-2.50

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MOTT

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**BOROUGH OF AVALON
CAPE MAY COUNTY, NJ 08202**



DOUGLAS GAFFNEY
NJ PROFESSIONAL ENGINEER LIC. No. 24GE04062800

Date 11/30/23



Designed	DG/RC		Eng check	TRT	
Drawn	RML		Coordination		
Dwg check	RML		Approved	DG	
Scale at ARCH D	Status	Rev	Security		
As Shown	PERMIT	Rev0	STD		
Drawing Number		C108			

Title	BOROUGH OF AVALON BAY PARK MARINA IMPROVEMENTS CIVIL LIVING SHORELINE PLAN
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