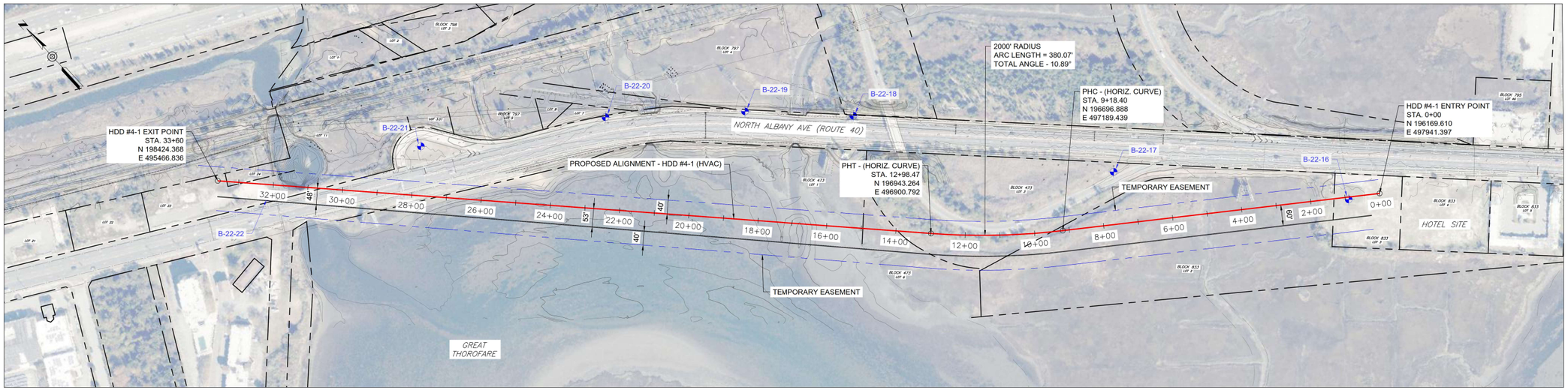
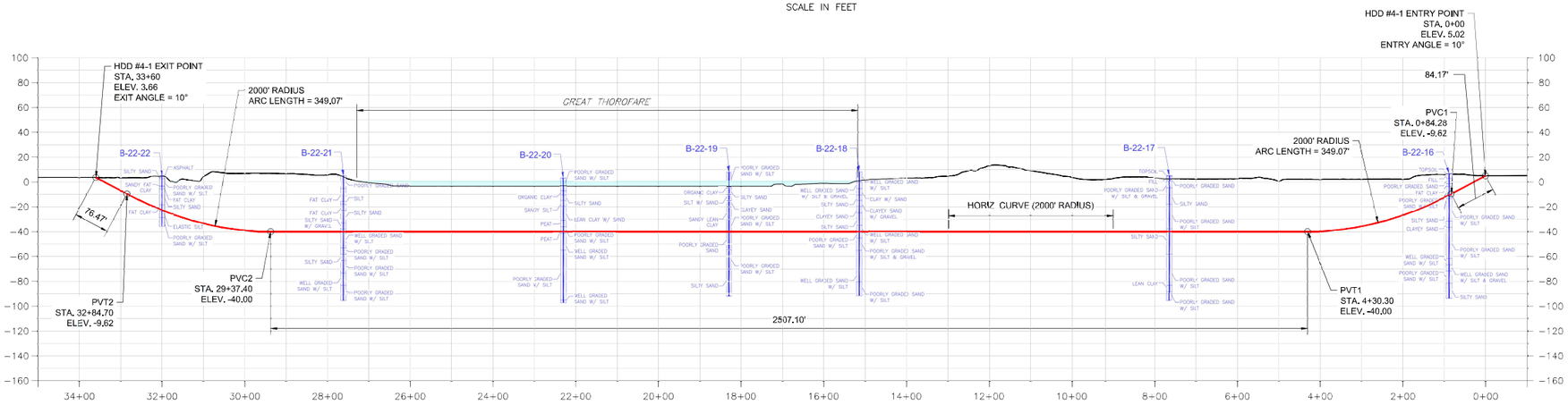


PLAN VIEW

0 150' 300' 450'

SCALE IN FEET



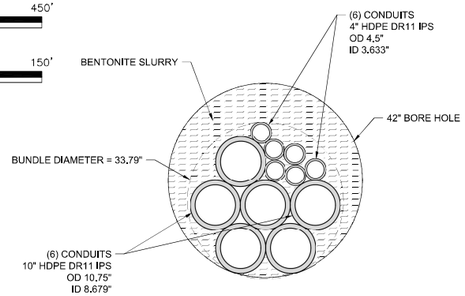
PROFILE VIEW

0 150' 300' 450'

HOR. SCALE IN FEET

0 50' 100' 150'

VER. SCALE IN FEET



HVAC CONDUIT BUNDLE

NOTES:

1. CONTRACTOR SHALL ADHERE TO THE SPECIFICATIONS AND REQUIREMENTS PER COMPANY SPECIFICATIONS, CONTRACT DOCUMENTS AND SPECIAL PERMIT CONDITIONS, EXCEPT AS NOTED ON THIS DRAWING.
2. CONTRACTOR IS RESPONSIBLE FOR CALLING NEW JERSEY ONE-CALL AND LOCATING ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. IF ANY UTILITY IS LOCATED WITHIN 15 FEET OF THE DESIGNED HDD PROFILE AND ALIGNMENT, CONTRACTOR SHALL OBTAIN APPROVAL FROM COMPANY PRIOR TO INITIATING HDD OPERATIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PROTECT ANY FOREIGN UTILITY THAT MAY BE AFFECTED BY THE HDD OPERATIONS.
4. ALL TERRESTRIAL EQUIPMENT MUST ACCESS THE SITE ALONG THE CONSTRUCTION RIGHT-OF-WAY OR FROM APPROVED ACCESS ROADS
5. WORKSPACE: MAXIMUM TERRESTRIAL WORKSPACE LIMITS ARE SHOWN. RESTRICT CLEARING TO THE WORKSPACE INDICATED AT THE ENTRY AND EXIT POINTS AND PRODUCT PIPE STRINGING AND FABRICATION AREA ALONG THE CONSTRUCTION RIGHT-OF-WAY. CLEARING BETWEEN THE ENTRY AND EXIT POINTS REQUIRES PRIOR COMPANY APPROVAL AND IS LIMITED TO THE AMOUNT NECESSARY TO STRING SURVEY WIRES AND INSTALL PUMPS AND PIPING TO OBTAIN WATER (WHERE APPROVED).
6. WATER SOURCE: DRILL WATER SHALL BE OBTAINED FROM COMPANY APPROVED SOURCE.
7. SPILL-PREVENTION: REFUELING OF ALL EQUIPMENT SHALL BE COMPLETED IN ACCORDANCE WITH THE SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN.
8. EROSION AND SEDIMENT CONTROL: CONTRACTOR SHALL SUPPLY, INSTALL AND MAINTAIN SEDIMENT CONTROL STRUCTURES IN ACCORDANCE WITH CONTRACT DOCUMENTS. CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL STRUCTURES AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
9. INSTALLATION: THE PIPE SECTION FOR THE DRILLED CROSSING SHALL BE MADE UP WITHIN THE APPROVED CONSTRUCTION RIGHT-OF-WAY AS SHOWN. AFTER THE PILOT HOLE IS COMPLETE, CONTRACTOR'S ACTUAL DRILL PROFILE SHALL BE SUBMITTED FOR COMPANY APPROVAL PRIOR TO REAMING AND PULLBACK OPERATIONS. CONTRACTOR SHALL ASSESS THE NEED FOR AND SUPPLY APPROPRIATE BALLAST DURING PULL BACK.
10. DRILLING FLUID DISPOSAL: CONTRACTOR SHALL DISPOSE OF EXCESS DRILLING FLUID IN ACCORDANCE WITH PERMIT CONDITIONS. UNDER NO CIRCUMSTANCES SHALL DRILLING FLUID BE DISPOSED OF IN WATER BODIES OR WETLANDS. ANY DRILLING FLUID WHICH SURFACES AT POINTS OTHER THAN THE ENTRY OR EXIT POINTS SHALL BE CONTAINED AND COLLECTED TO THE EXTENT PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH PERMIT CONDITIONS
11. THE SPATIAL INFORMATION SHOWN ON THIS DRAWING IS A COMPILATION OF DATA OBTAINED FROM VARIOUS SOURCES, BOND DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION SHOWN.
12. GEOTECHNICAL DATA: BORINGS SHOWN ARE OFFSET FROM THE PIPELINE CENTERLINE AS SHOWN ON THE PLAN VIEW AND PROJECTED TO THE PROFILE VIEW. THE GEOTECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS A GENERAL SUMMARY. REFER TO THE APPLICABLE GEOTECHNICAL DATA REPORT FOR MORE DETAILED INFORMATION.
13. BATHYMETRY DATA PROVIDED BY COMPANY.
14. GROUND SURFACE LIDAR DATA DOWNLOADED FROM THE USGS 3D ELEVATION PROGRAM USING GLOBAL MAPPER.
15. FINAL BOREHOLE SIZE SELECTION IS UP TO SELECTED TRENCHLESS CONTRACTOR.
16. CONDUIT PROOFING TO BE COMPLETED PER CONTRACT DOCUMENTS.

DIRECTIONAL DRILL DATA		
ROUTE 40 CROSSING OPTION 2 (HDD #4-1)		
DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 10º =	0.00	5.02
PVC1 = (2,000' RADIUS)	0+84.28	-9.62
PVT1 =	4+30.30	-40.00
PHC = (5,000' RADIUS)	9+18.40	-40.00
PHT = (5,000' RADIUS)	12+98.47	-40.00
PVC2 = (2,000' RADIUS)	29+37.40	-40.00
PVT2=	32+84.70	-9.62
EXIT @ 10º =	33+60.00	3.66
HORIZONTAL DISTANCE = 3,360.00 FT		
DIRECTIONAL DRILL PIPE LENGTH = 3,365.98 FT		

ISSUE FOR PERMIT

RECOMMENDED TOLERANCES	
ITEM	TOLERANCE
PILOT HOLE ENTRY ANGLE:	INCREASE ANGLE UP TO 1° (STEEPER) BUT NO DECREASE IN ANGLE ALLOWED.
PILOT HOLE ENTRY LOCATION:	AS PER COORDINATES PROVIDED BY COMPANY WITH NO CHANGES WITHOUT COMPANY APPROVAL.
PILOT HOLE EXIT ANGLE:	INCREASE ANGLE UP TO 1° (STEEPER) OR DECREASE UP TO 2° (FLATTER)
PILOT HOLE EXIT LOCATION:	5 FEET RIGHT OR LEFT, 10 FEET SHORT AND 20 FEET LONG OF THE DESIGN EXIT POINT
PILOT HOLE DEPTH:	UP TO 2 FEET ABOVE THE DESIGNED DRILL PROFILE AND 10 FEET BELOW THE DESIGNED DRILL PROFILE ALLOWED.
PILOT HOLE ALIGNMENT	SHALL REMAIN WITHIN 5 FEET RIGHT OR LEFT BETWEEN THE HDD ENTRY POINT AND THE HDD EXIT POINT.

BOND
Civil & Utility
51 E 1st STREET, 2nd FLOOR CLIFTON, NJ 07011
office: 617-387-3400 web: bond-civilutility.com

STATE OF NEW JERSEY
DANIEL COLE BYINGTON
No. GE58352
LICENSED PROFESSIONAL ENGINEER

DRAWING COORDINATES
HORIZONTAL DATUM: NAD 83, NEW JERSEY, US SURVEY FOOT
VERTICAL DATUM: NAVD 88 (GEOID 12A)

PIPE SPECIFICATIONS
HVAC BUNDLE: 6x 10-inch DR11 HDPE IPS & 6x 4-inch DR11 HDPE CONDUITS

REV.	DATE	DESCRIPTION

ATLANTIC SHORES OFFSHORE WIND
PROJECT 1 - CARDIFF
ATLANTIC CITY NEW JERSEY

DRAWING TITLE:
ROUTE 40 CROSSING
HDD #4-1 PLAN AND PROFILE

PROJECT #	2-23-980
DATE:	1/26/24
SCALE:	AS NOTED
DRAWN BY:	RB
CHECKED:	CB

DRAWING #
T012

Daniel C Byington 1-26-24