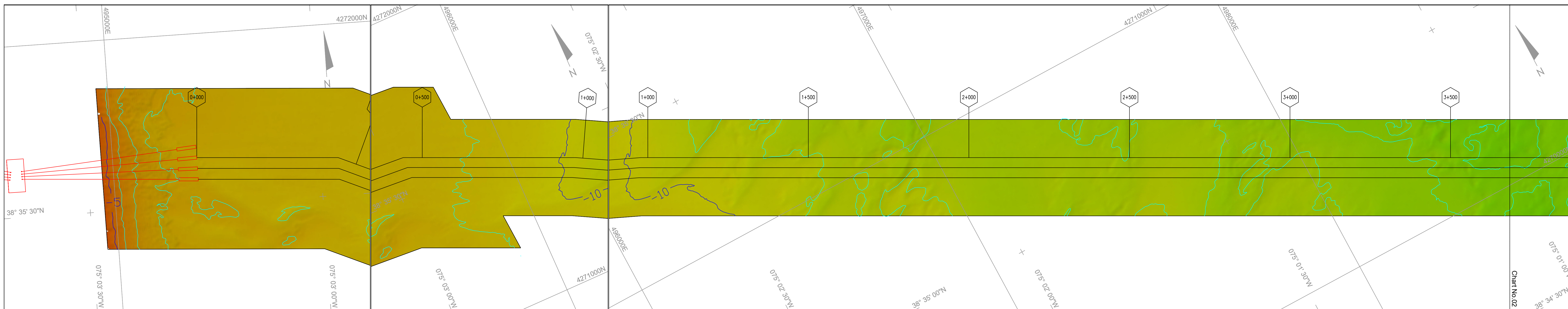


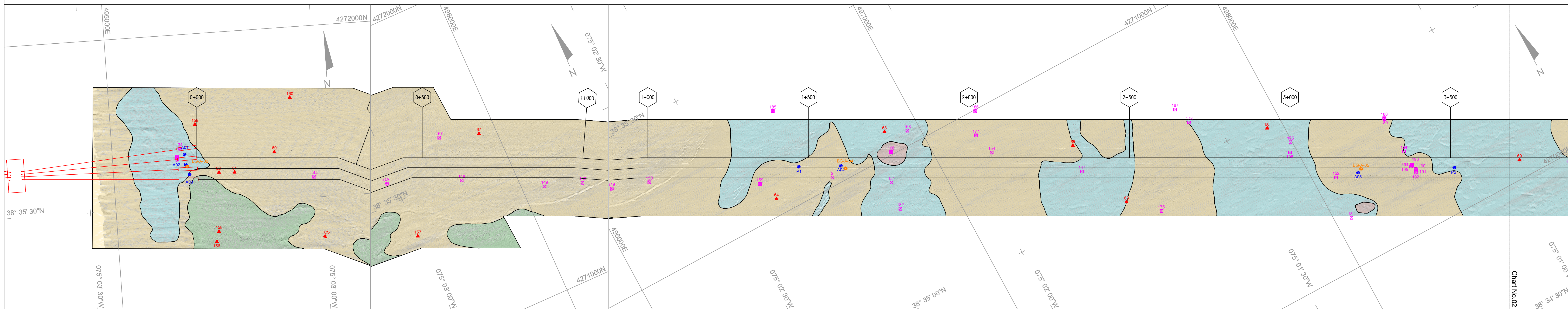
APPENDIX O

SURVEY CHARTS

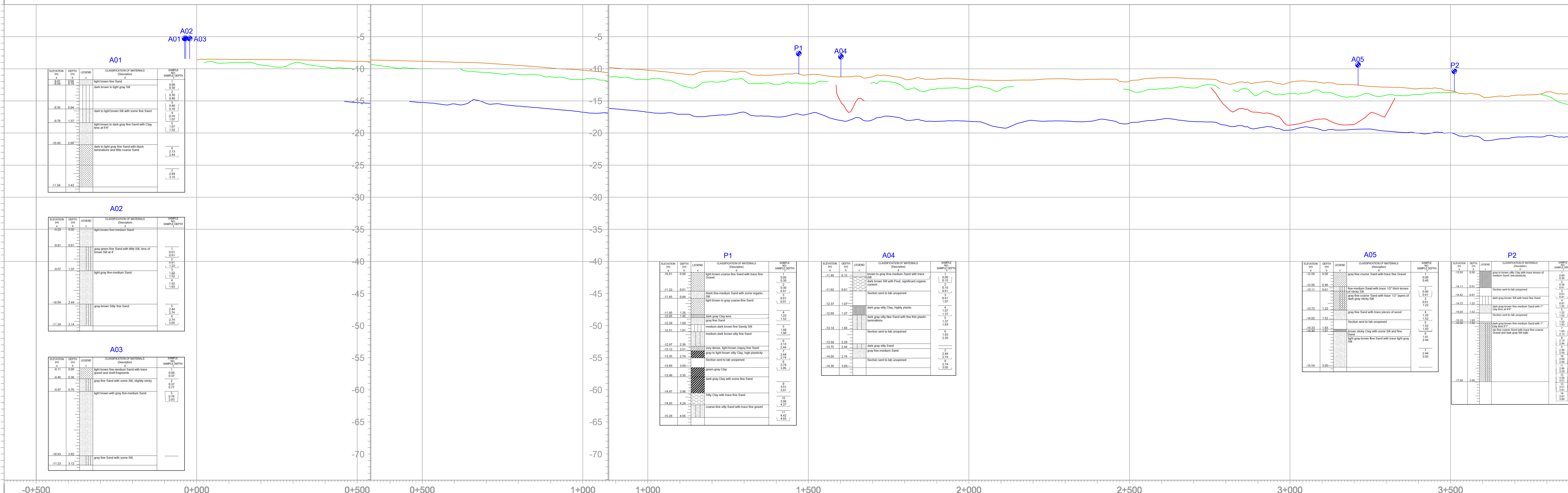
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE



FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY

- MAJOR BATHYMETRY CONTOUR - @ 5 m INTERVAL (MLLW)
 - MINOR BATHYMETRY CONTOUR - @ 1 m INTERVAL (MLLW)
- BATHYMETRIC SHADED RELIEF COLOR SCALE (m, MLLW)
- 40 -35 -30 -25 -20 -15 -10 -5 0

SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

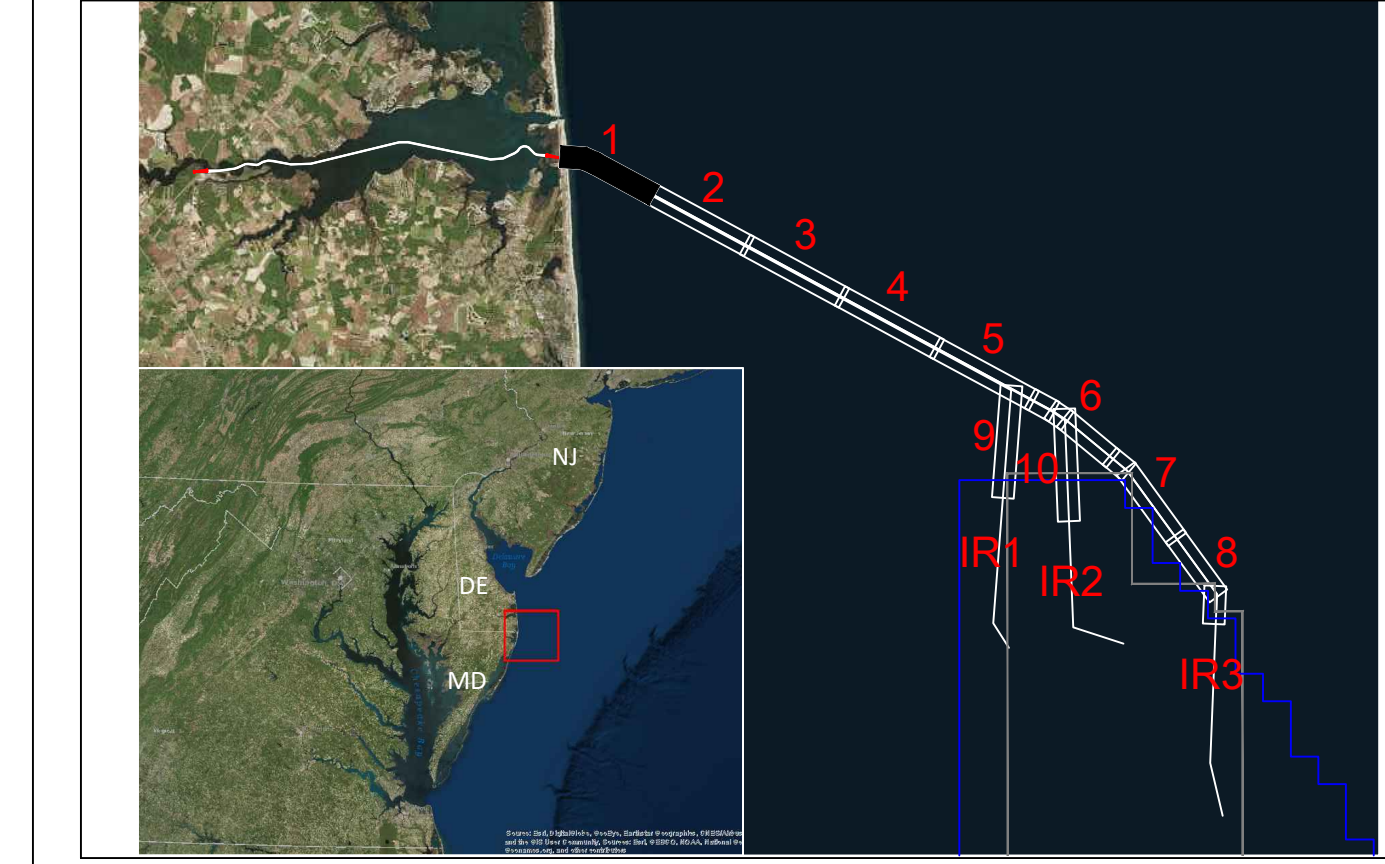
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

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 - d) Benthos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
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- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

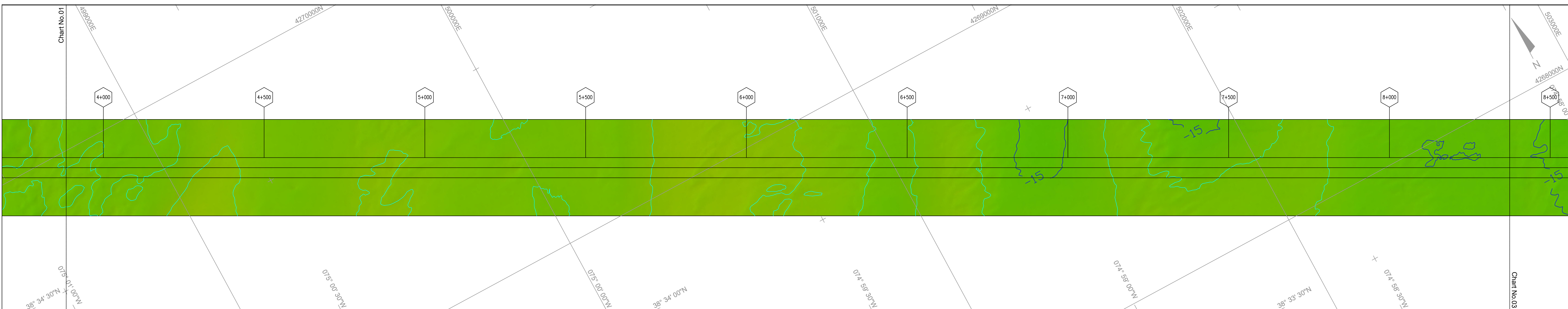
KP 0+000 to KP 3+884

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

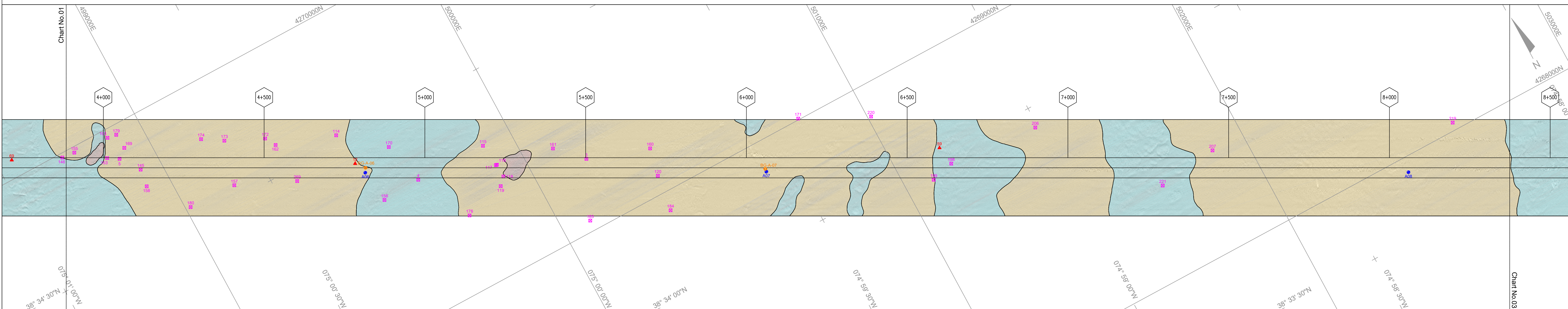
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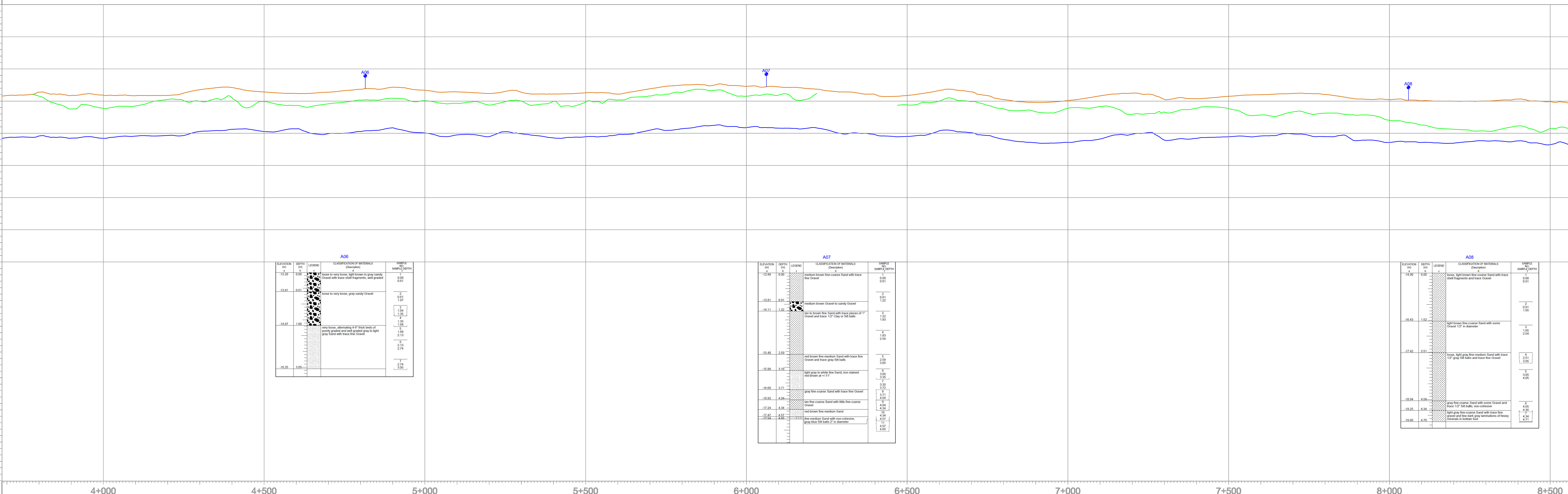
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE



STATION	DEPTH (m)	DESCRIPTION
4+000	0.00	Seabed
4+000	1.00	U2 Reflector
4+000	2.00	U1 Reflector
4+000	3.00	Internal Reflector
4+000	4.00	Biogenic Gas
4+000	5.00	Seabed

STATION	DEPTH (m)	DESCRIPTION
4+000	0.00	Seabed
4+000	1.00	U2 Reflector
4+000	2.00	U1 Reflector
4+000	3.00	Internal Reflector
4+000	4.00	Biogenic Gas
4+000	5.00	Seabed

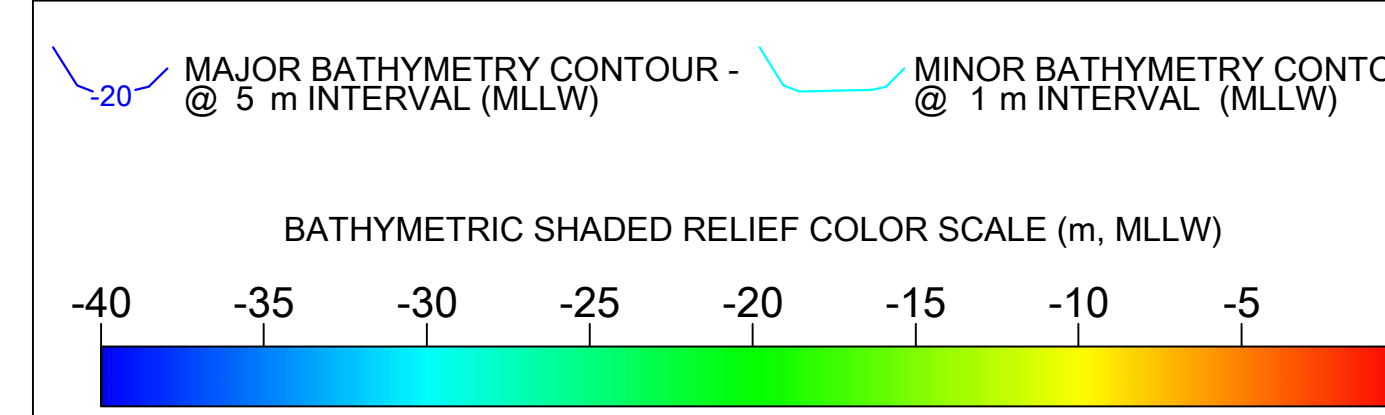
STATION	DEPTH (m)	DESCRIPTION
4+000	0.00	Seabed
4+000	1.00	U2 Reflector
4+000	2.00	U1 Reflector
4+000	3.00	Internal Reflector
4+000	4.00	Biogenic Gas
4+000	5.00	Seabed

FOR FUTURE USE

LEGEND

- 1+000 KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- 1+000 KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- 1+000 KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

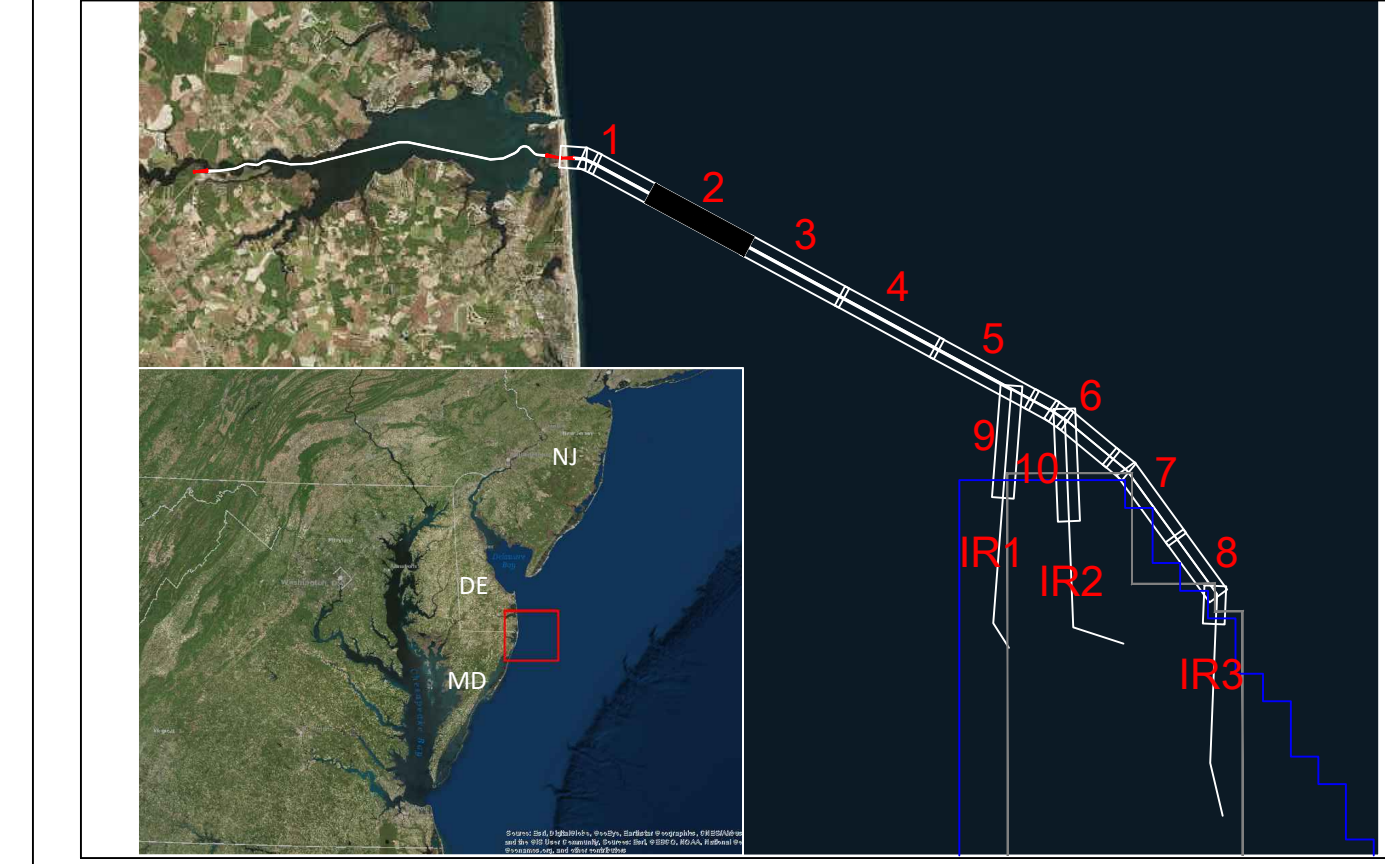
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- U1 REFLECTOR
- BIOGENIC GAS
- INTERNAL REFLECTOR
- CORE LOCATION & ID (PROFILE VIEW)

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 - d) Benthos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
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- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

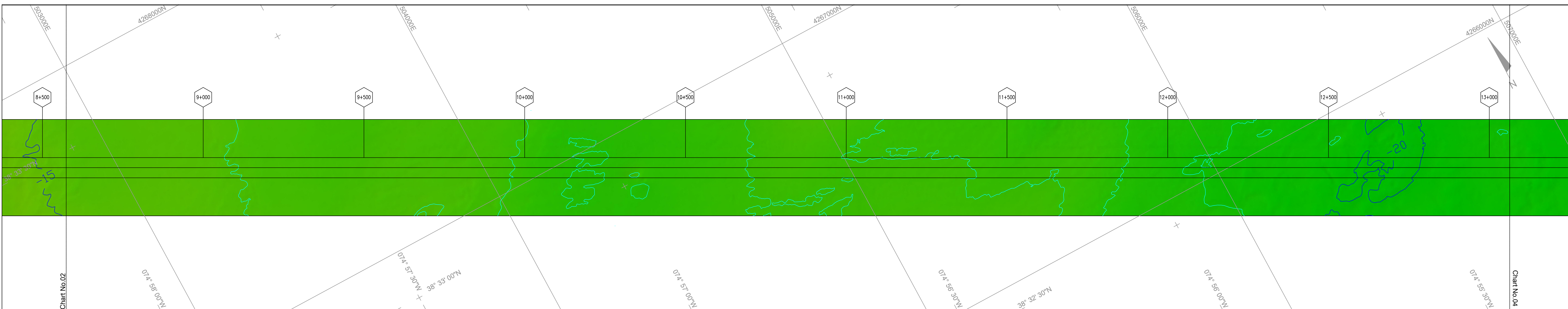
KP 3+684 to KP 8+574

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

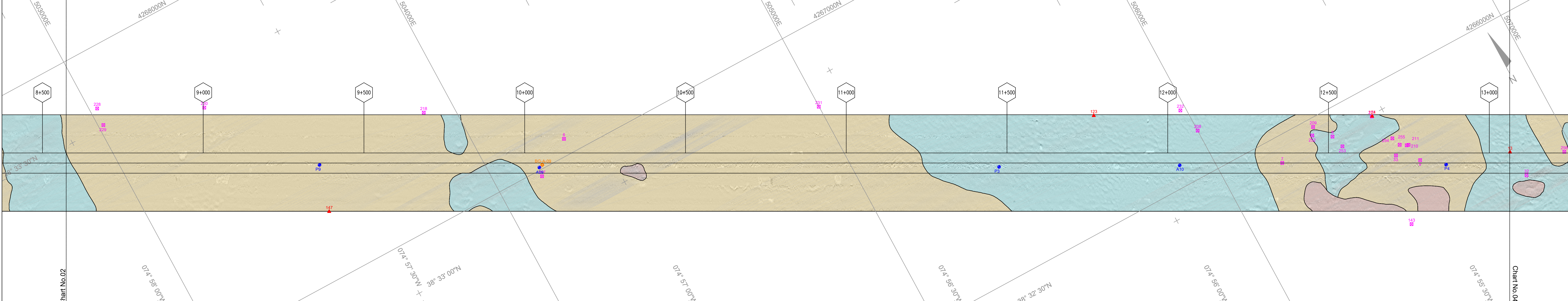
SCALE: 1:5,000 (1 cm = 50 meters)	DATUM: NAD83 VERTICAL: MLLW PROJECTION: UTM83-18	SECRETIC INFORMATION	Sheet Name: Algrs04_001.dwg Sheet No: 02 of 10
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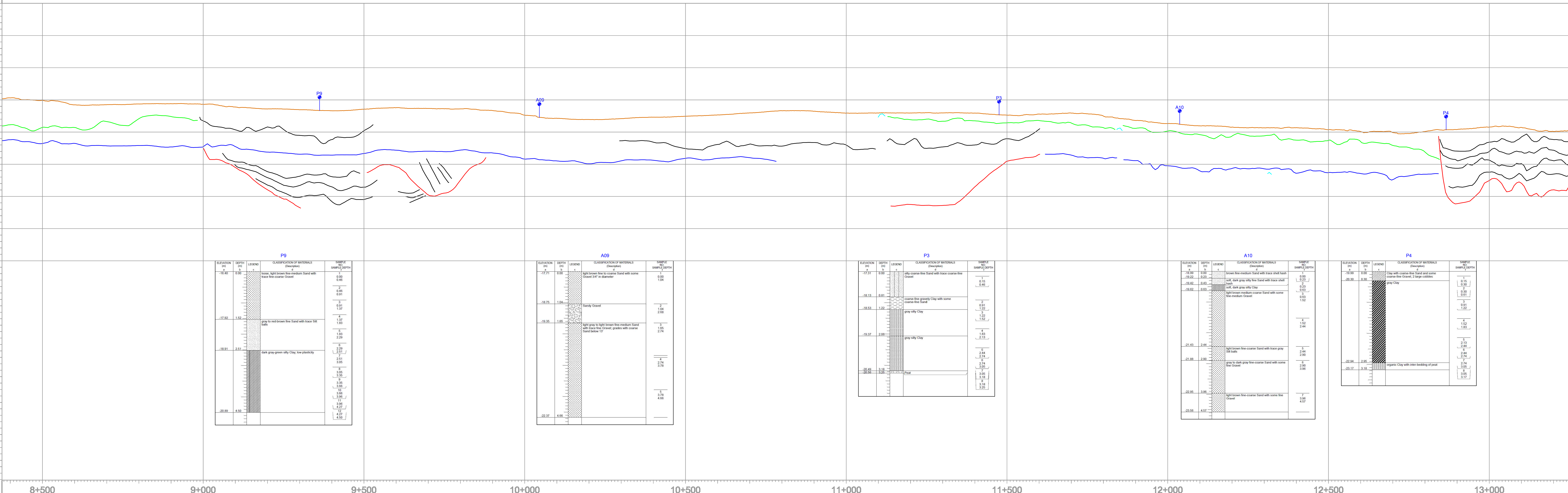
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

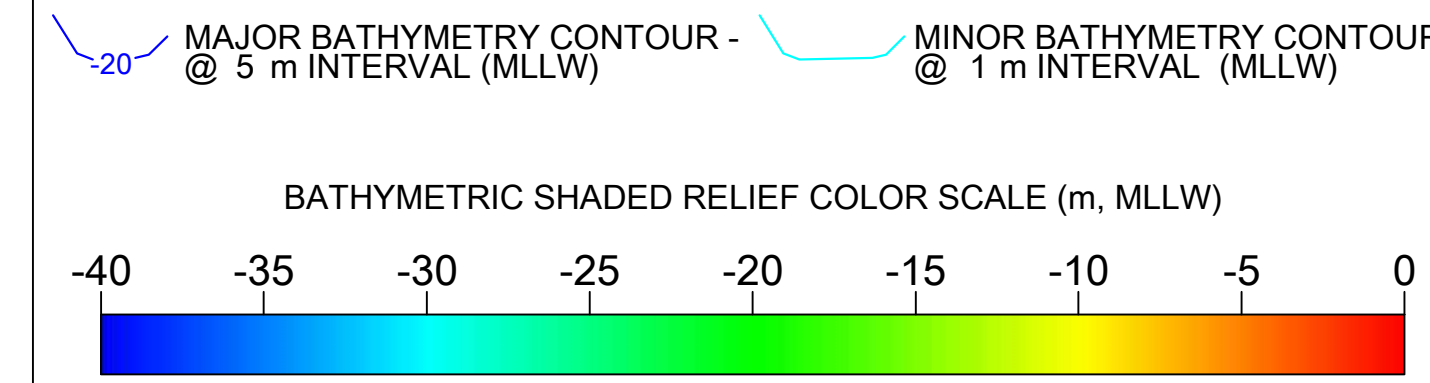


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

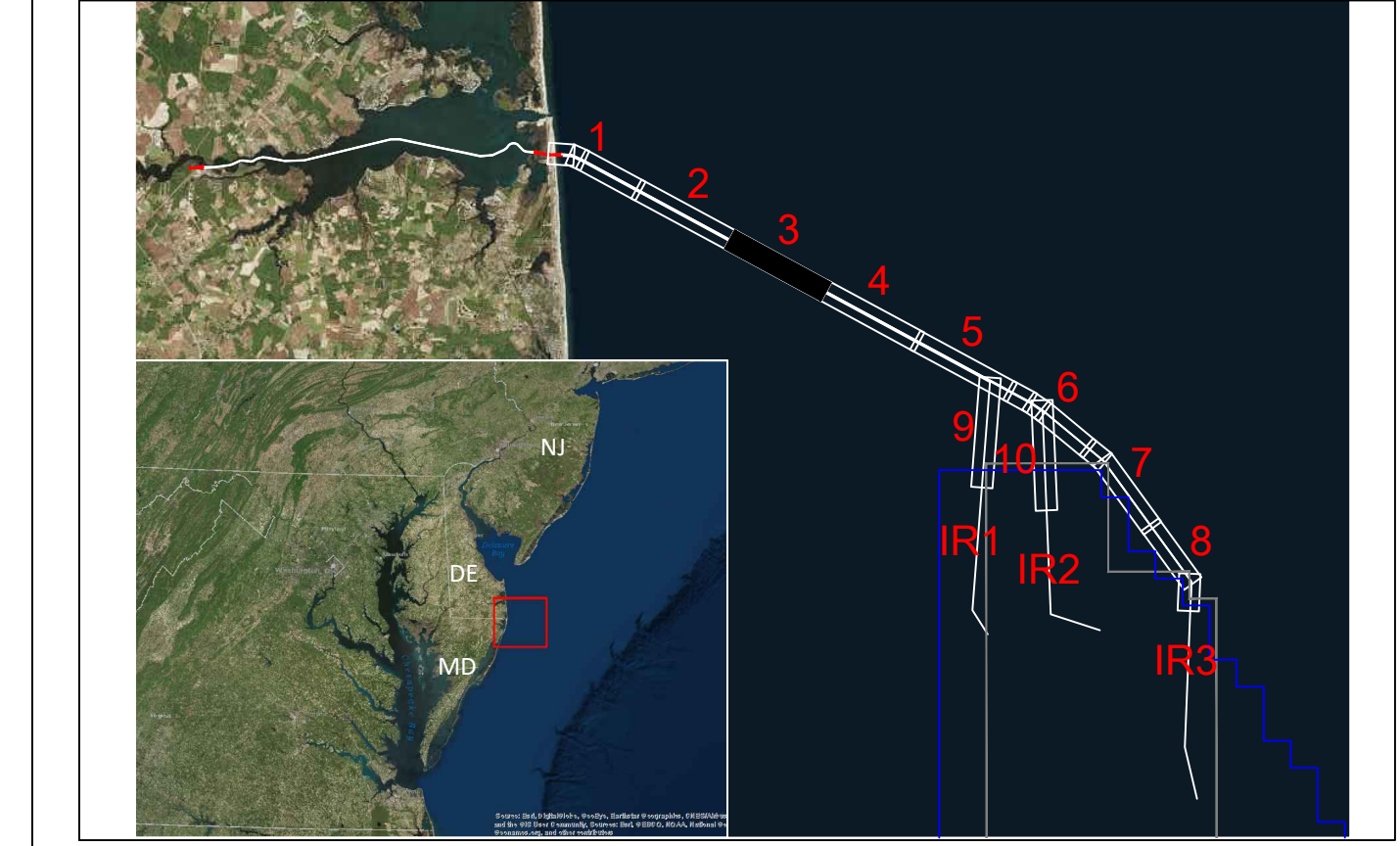
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

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 - d) Benthos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
3. Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
4. Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
5. Vertical Datum: MLLW, meters.
6. Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

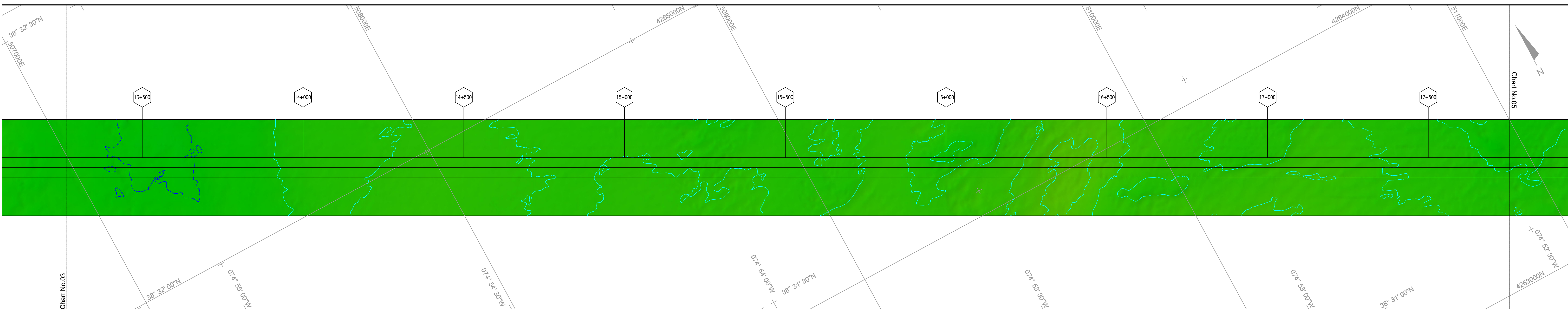
KP 8+374 to KP 13+263
Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

SCALE: 1 : 5,000 (1 cm = 50 meters)	DATUM: NAD83	VERTICAL: MLLW	PROJECTION: UTM83-18	Sheet Name: Algrs04_001.dwg
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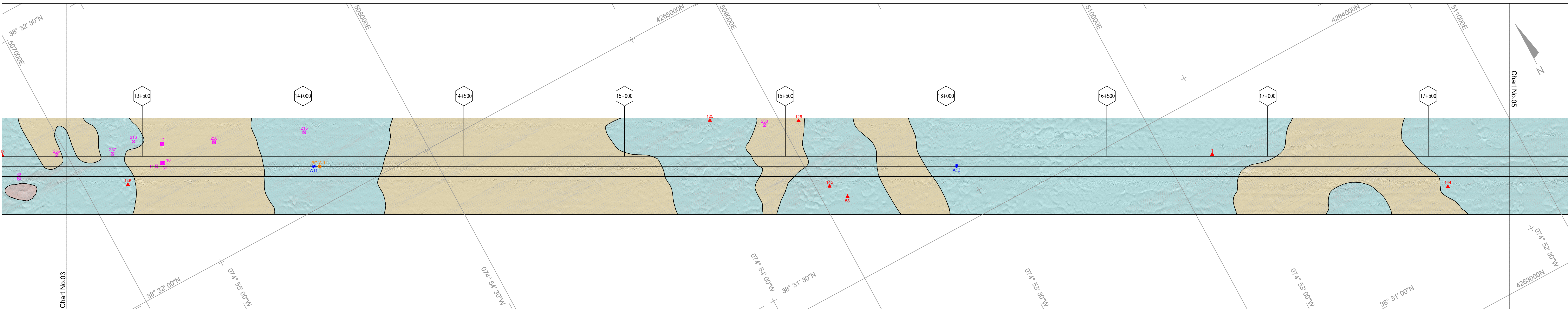
Alpine

Author: J. Blake	Checked: J. Blake
Drawn: J. Blake	Reviewed: J. Blake
Date: 12/15/2017	Scale: 1:5000
Sheet: 03 of 10	Project: IR3-Ocean Cable Route

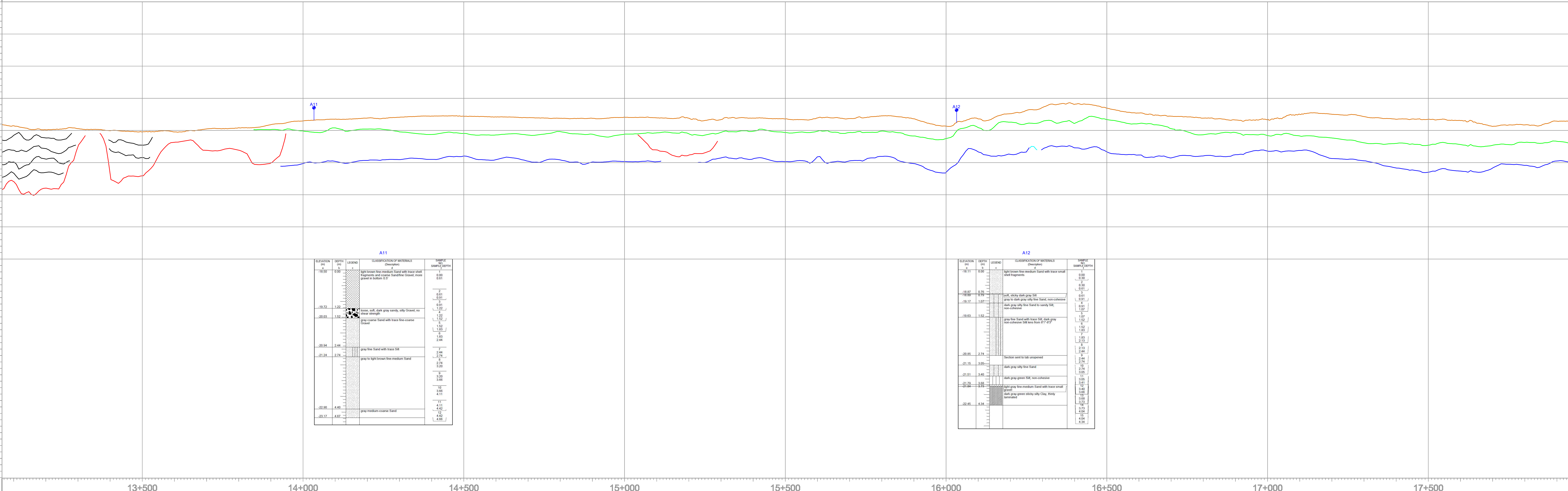
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

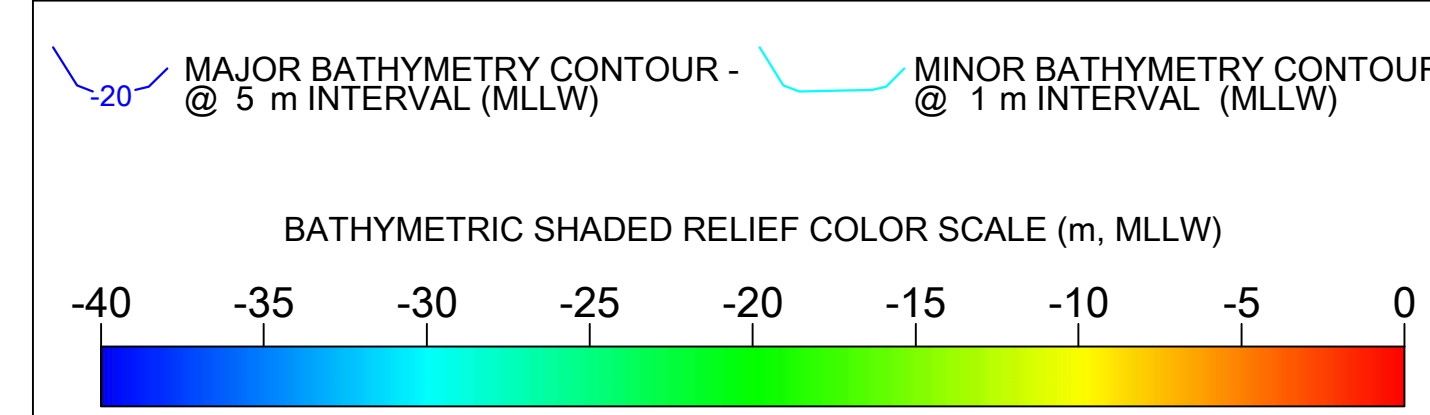


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

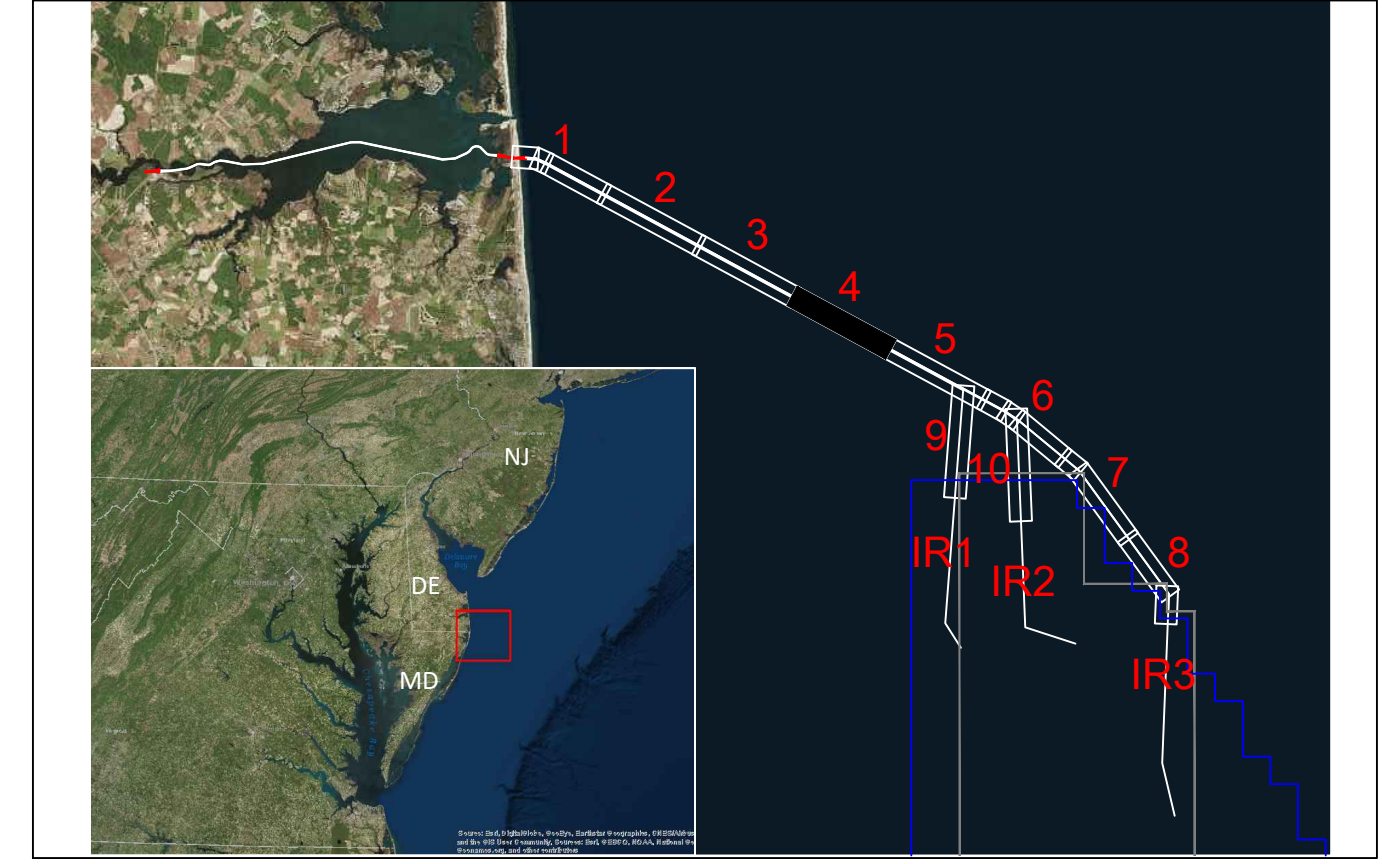
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

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 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
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5. Vertical Datum: MLLW, meters.
6. Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

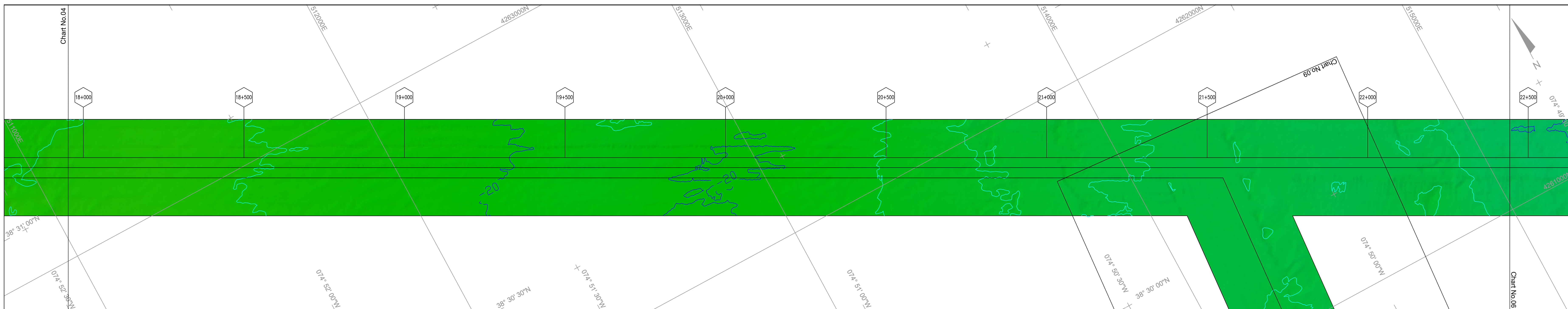
KP 13+063 to KP 17+953

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

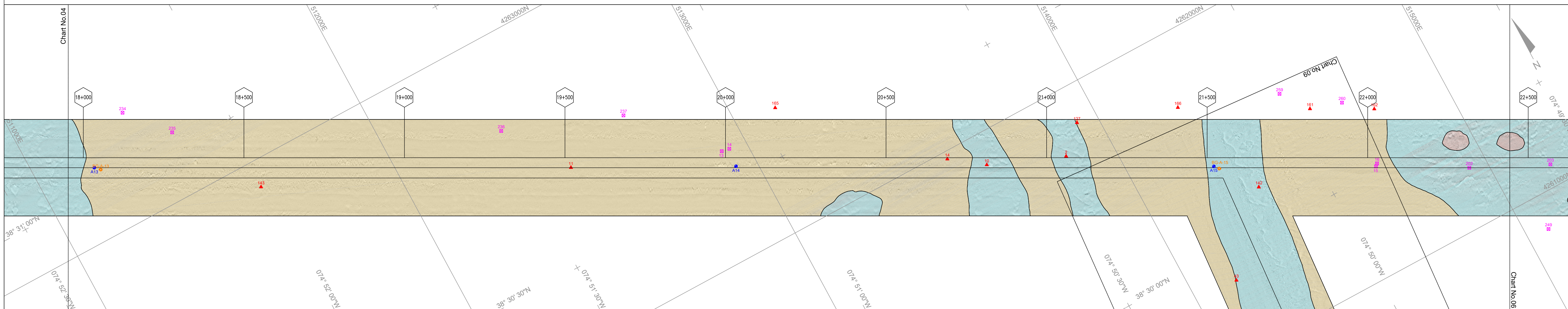
SCALE: 1:5,000 (1 cm = 50 meters)	DATUM: NAD83 VERTICAL: MLLW	PRODUCTION: UTM83-18	SECRET/NOFORN INFORMATION	Project: Algrs04_001.dwg Drawn: J. Blake Checked: J. Blake Date: 07/20/16 Scale: 1:5,000 Sheet: 04 of 10
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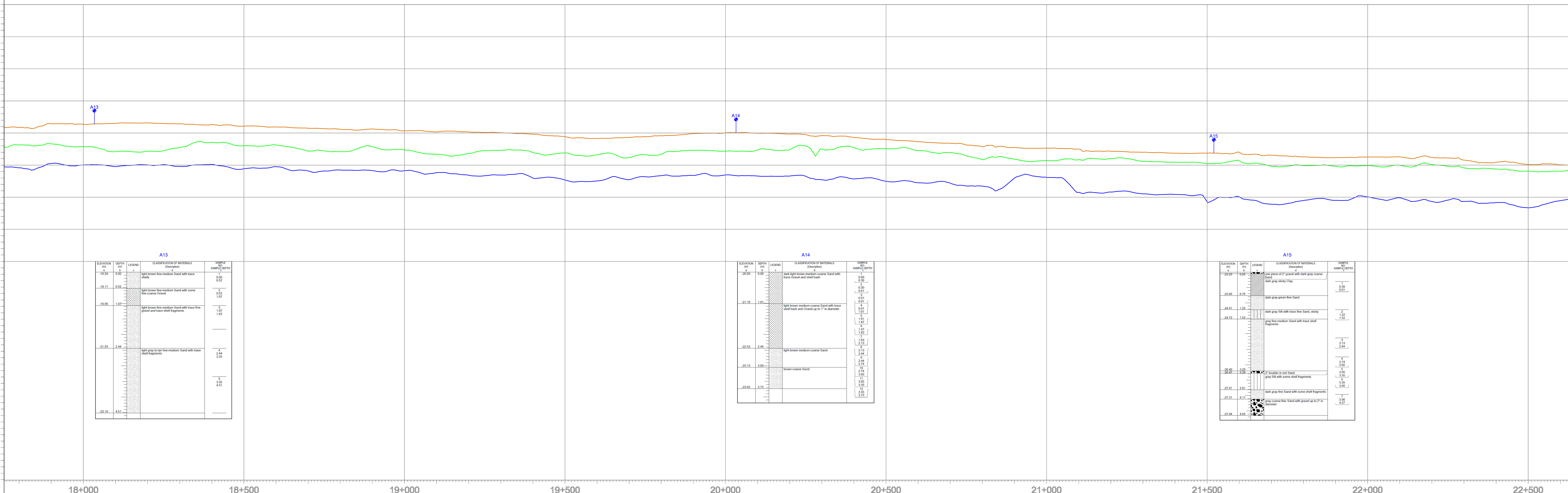
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

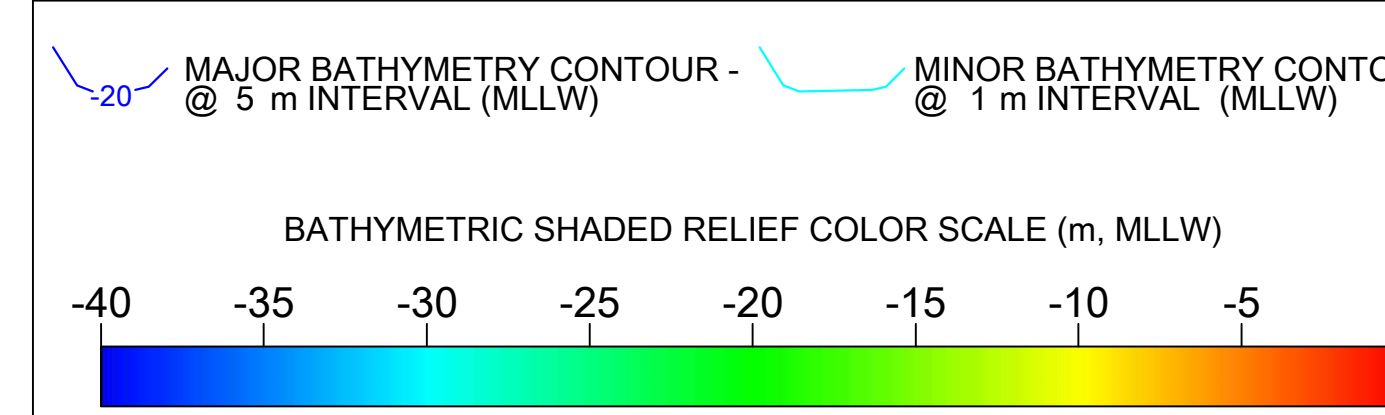


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

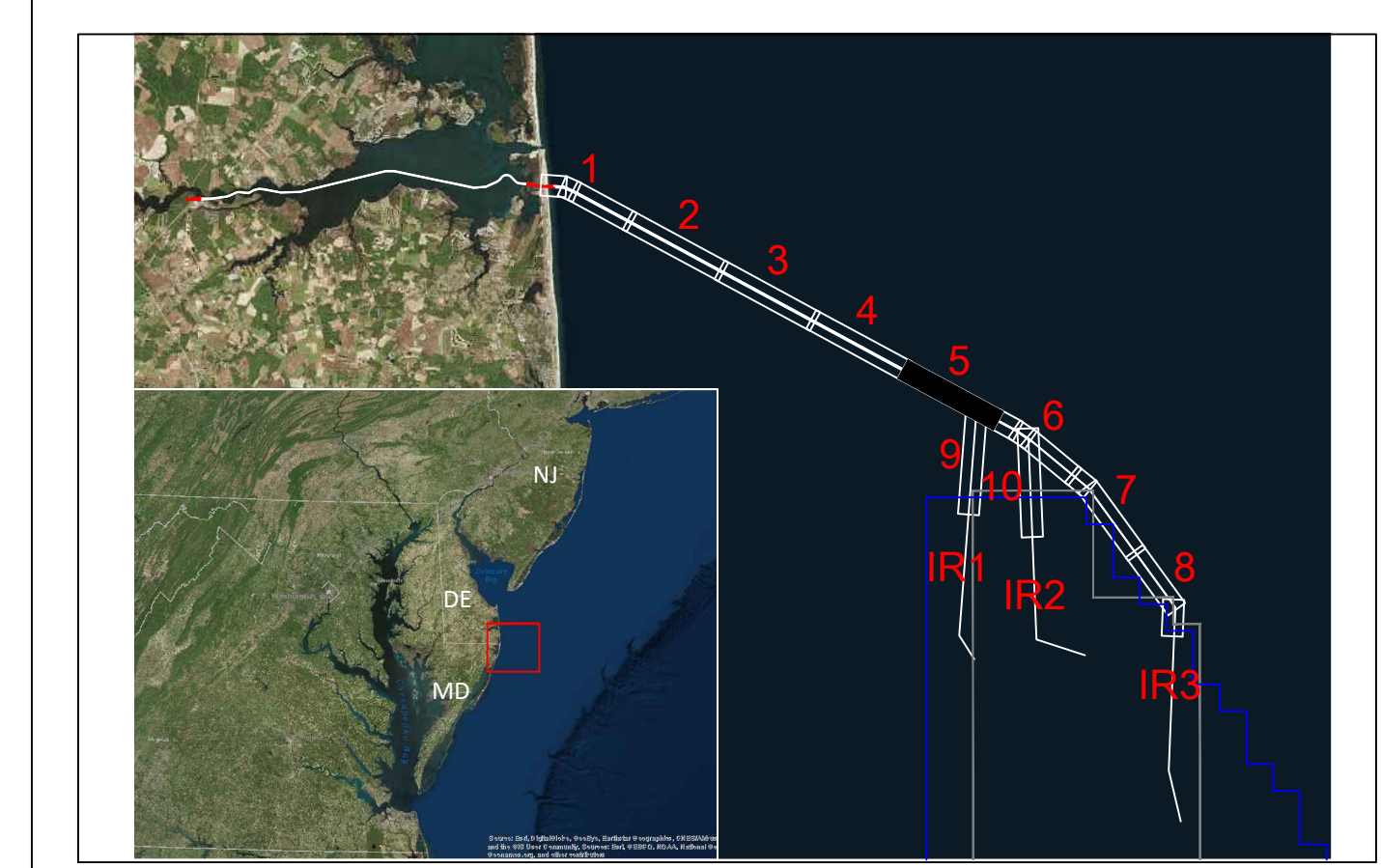
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

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5. Vertical Datum: MLLW, meters.
6. Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR2-OCEAN CABLE ROUTE

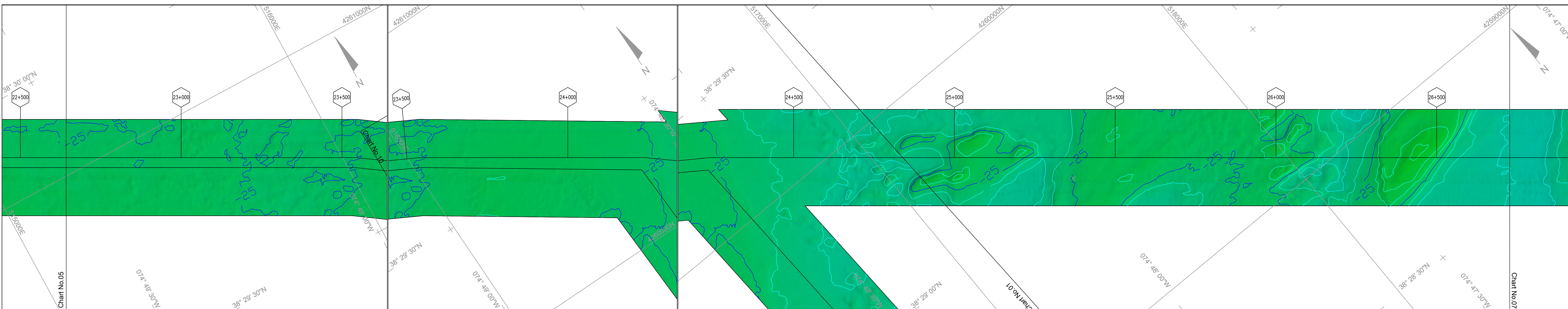
KP 17+753 to KP 22+642

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

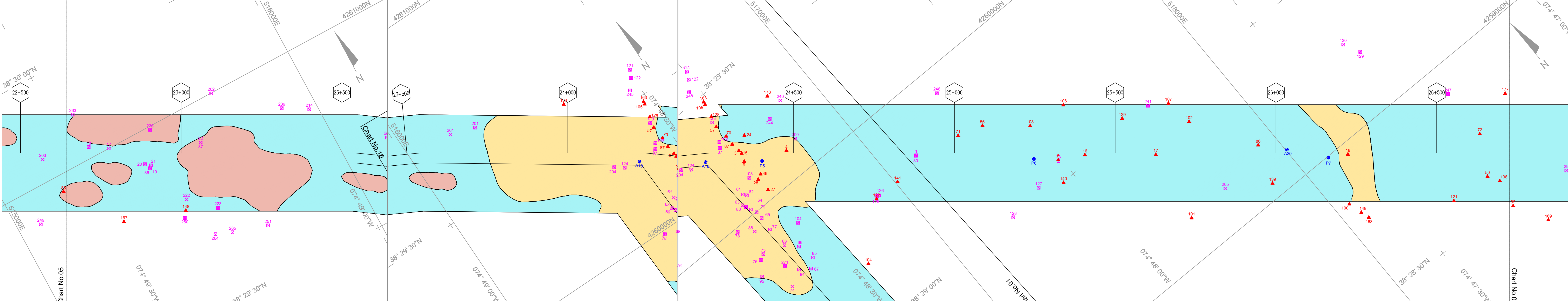
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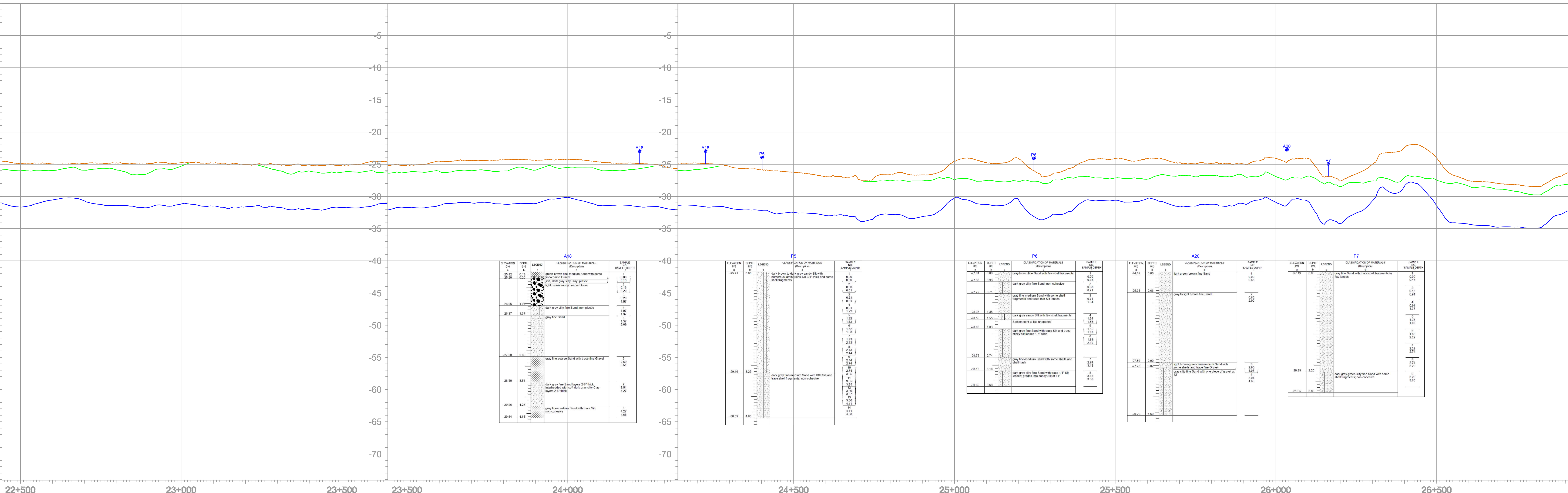
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE



FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY

- MAJOR BATHYMETRY CONTOUR - @ 5 m INTERVAL (MLLW)
 - MINOR BATHYMETRY CONTOUR - @ 1 m INTERVAL (MLLW)
- BATHYMETRIC SHADED RELIEF COLOR SCALE (m, MLLW)
- 40 -35 -30 -25 -20 -15 -10 -5 0

SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

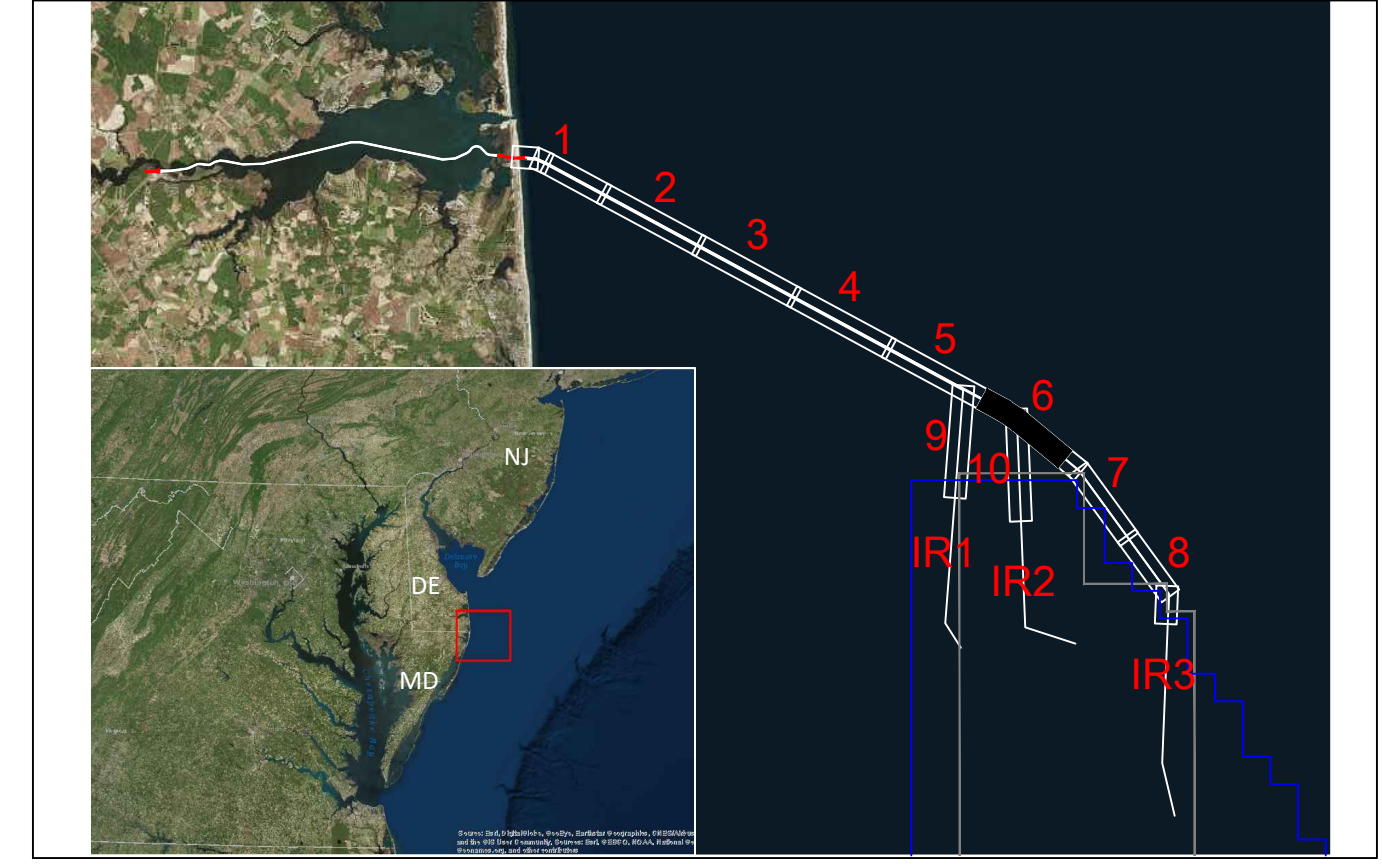
- SEABED PROFILE
 - U2 REFLECTOR
 - PALEOCHANNEL
 - CORE LOCATION & ID (PROFILE VIEW)
 - BIOGENIC GAS
 - U1 REFLECTOR
 - INTERNAL REFLECTOR
- GEOLOGICAL PROFILE

* Geological Profile Images shown within the profile are NOT TO SCALE.

GENERAL NOTES

- The data depicted on this drawing represents the results of geophysical surveys performed between August 25 - September 1, 2016, as well as a Geotechnical Survey performed between September 1 - 14, 2016 and can only be considered to indicate the general conditions existing at the time of survey.
- SURVEY DATA ACQUISITION EQUIPMENT:
 - a) Applanix POS MV
 - b) Reson 7125 MBES System
 - c) Klein 3900 Side Scan Sonar
 - d) Benthos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
- Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

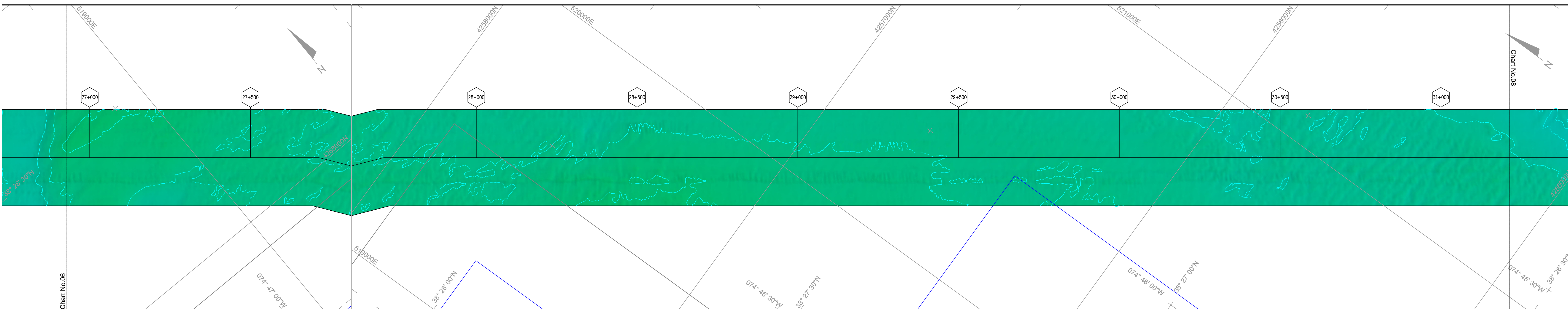
KP 22+442 to KP 26+927

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

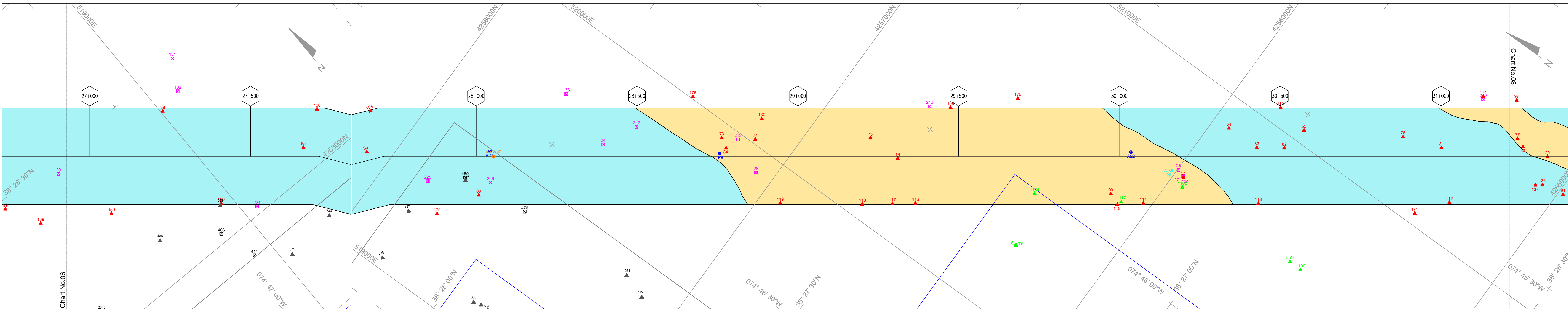
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50 0 100 200 400		Drawn By: J. Blakey	Checked By: CM.DIV. 81.1
		Party Chief: W.L. Dow	Scale: 07.14
		Project: OCS-A	Sheet: 06 of 10
		Issue Date: 12/15/2016	Drawn Date: 03/25/16 - 03/15/16
		Sheet No: 06 of 10	



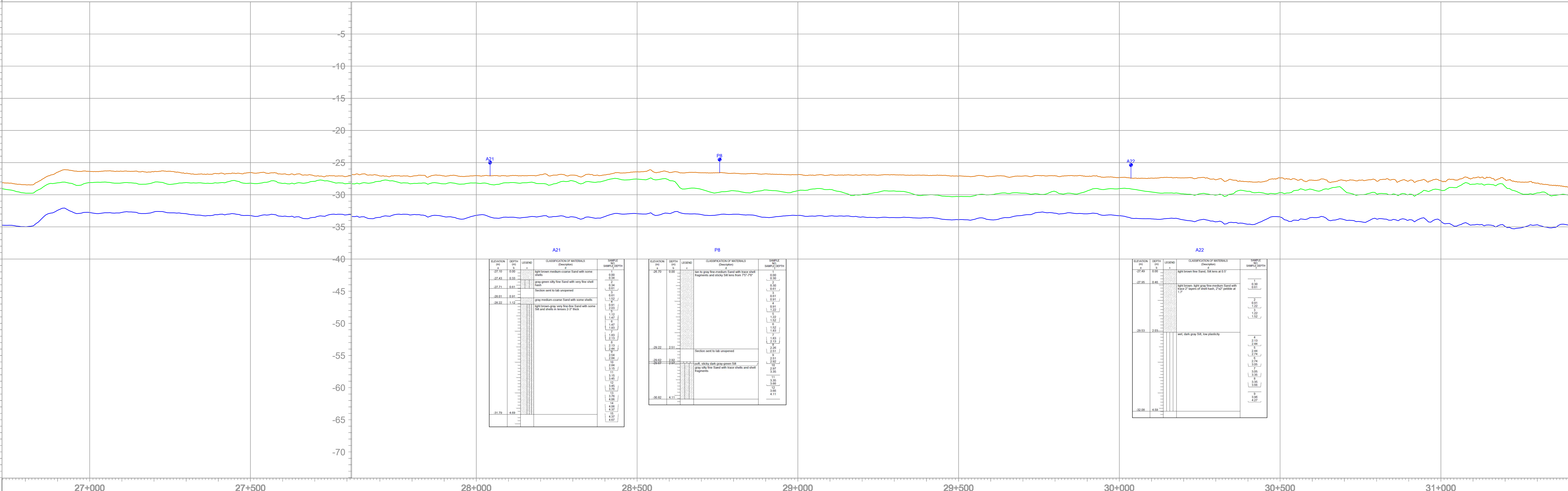
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

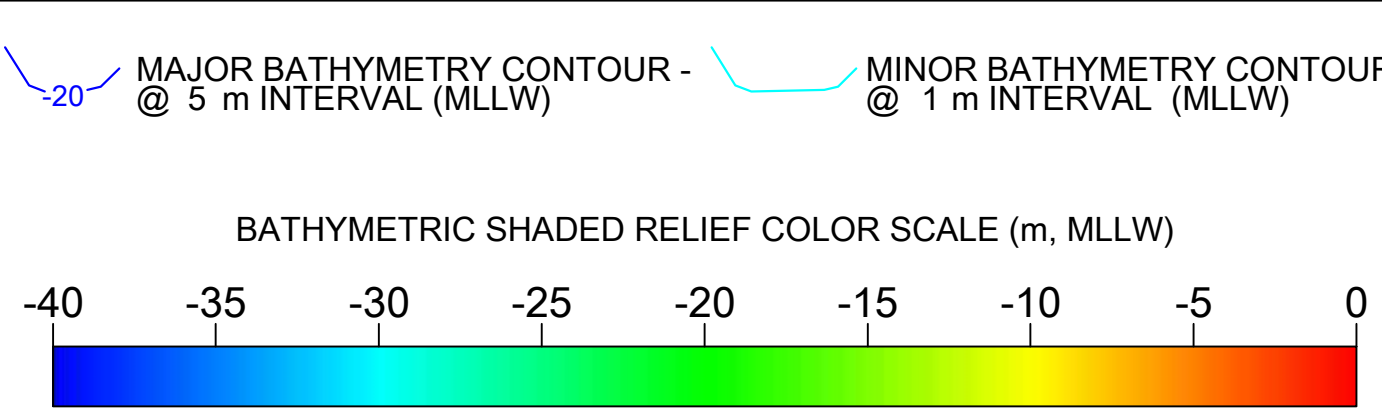


FOR FUTURE USE

LEGEND

- 1+000 KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- 1+000 KILOMETER POSTS ALONG ROUTE
- 1+000 KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEASUREMENT SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEASUREMENT MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEASUREMENT ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

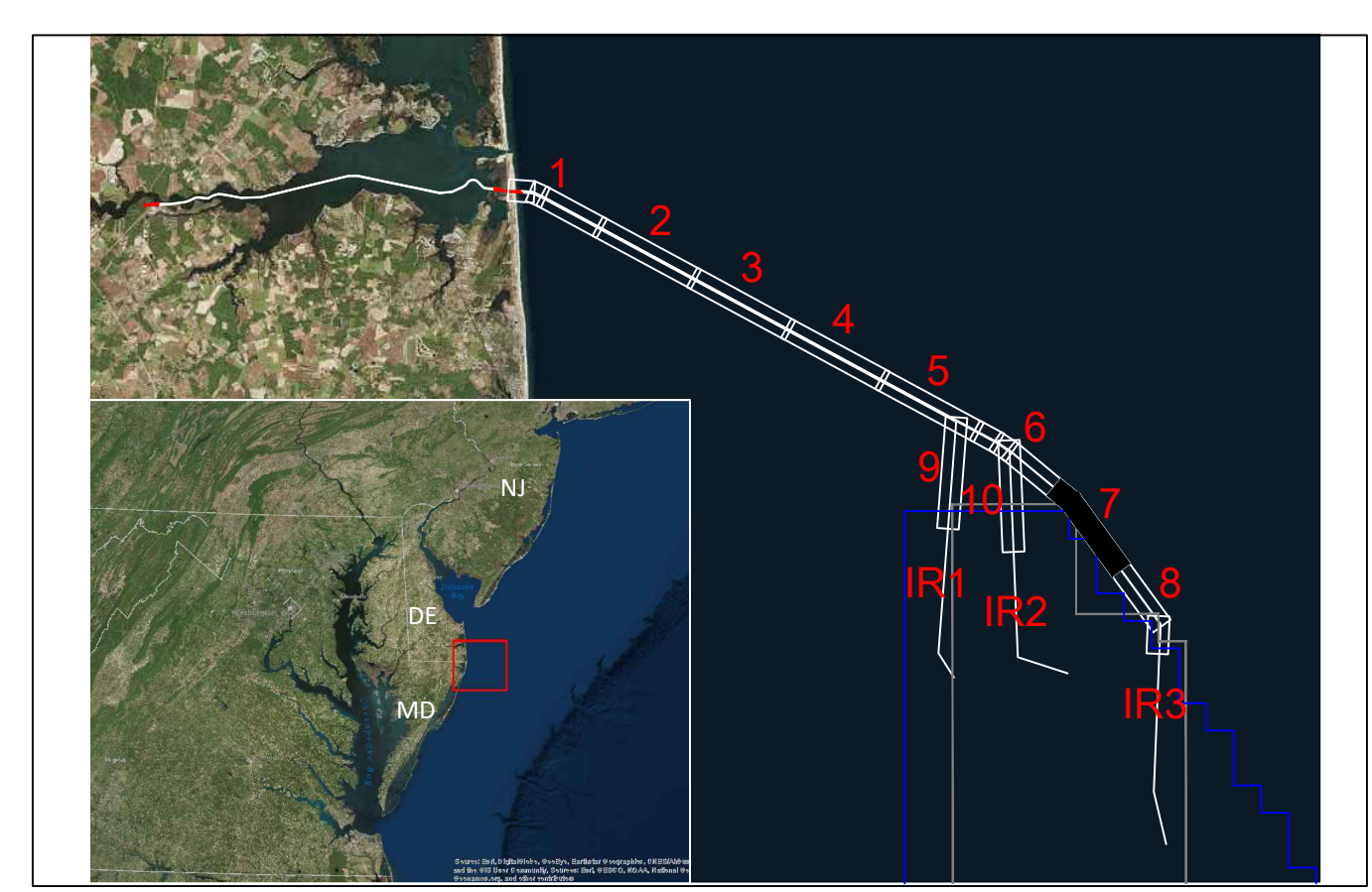
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

* Geological Profile Images shown within the profile are NOT TO SCALE.

GENERAL NOTES

- The data depicted on this drawing represents the results of geophysical surveys performed between August 25 - September 1, 2016, as well as a Geotechnical Survey performed between September 1 - 14, 2016 and can only be considered to indicate the general conditions existing at the time of survey.
- SURVEY DATA ACQUISITION EQUIPMENT:
 - a) Applanix POS MV
 - b) Reson 7125 MBES System
 - c) Klein 3900 Side Scan Sonar
 - d) Benlithos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
- Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

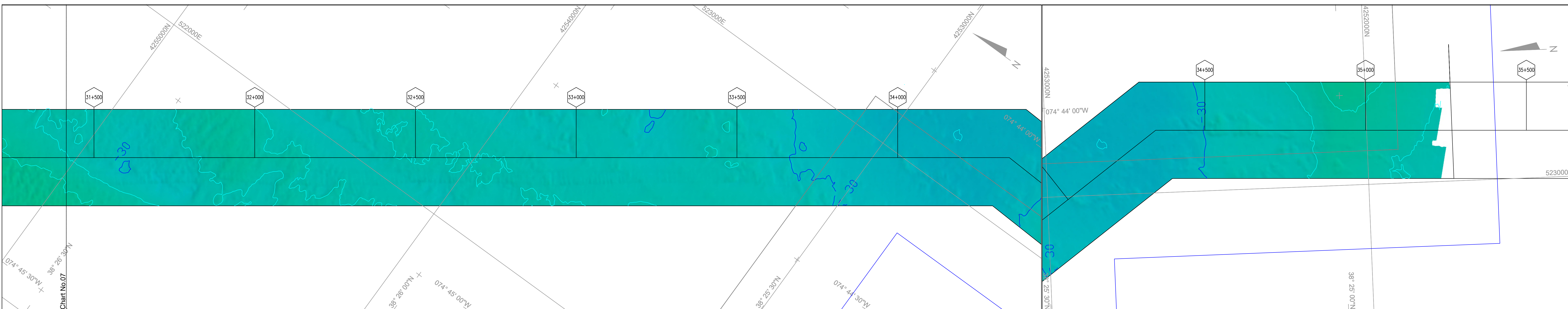
KP 26+727 to KP 31+414

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

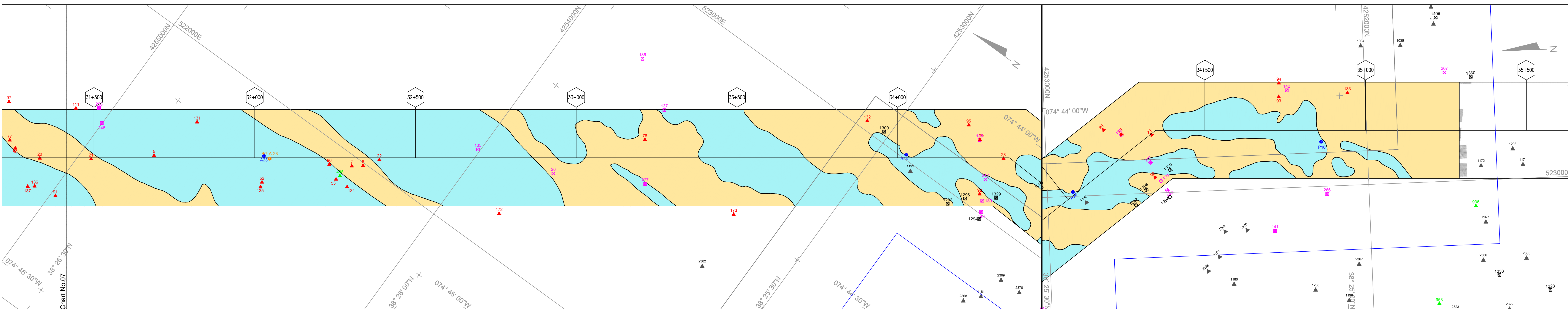
SCALE: 1:5,000 (1 cm = 50 meters)	DATUM: NAD83 VERTICAL: MLLW	PROJECTION: UTM83-18	SECRETIC INFORMATION	Project: Aligned_001.dwg Client: US Wind Drawn By: J. Blake Checked By: CM.DR. JR. Party Chief: WT.DW Scale: 07.48 Operator: CM.DR. Issue Date: 12/15/17 Drawing Date: 03/20/18 - 04/09/18 Sheet No: 07 of 10
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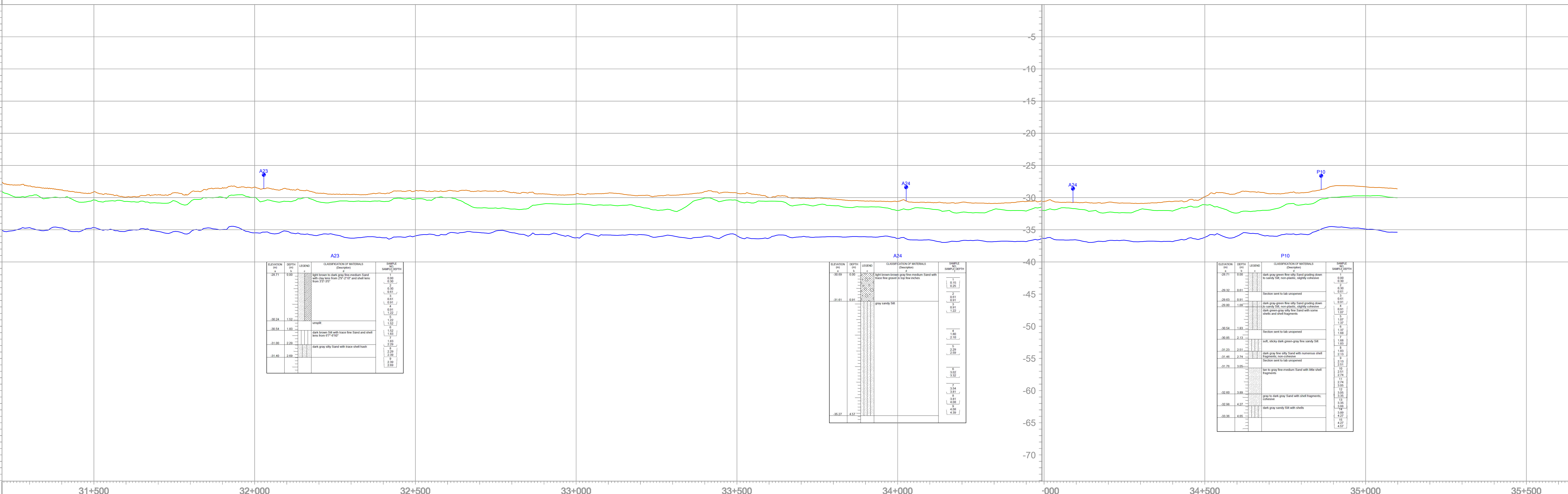
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

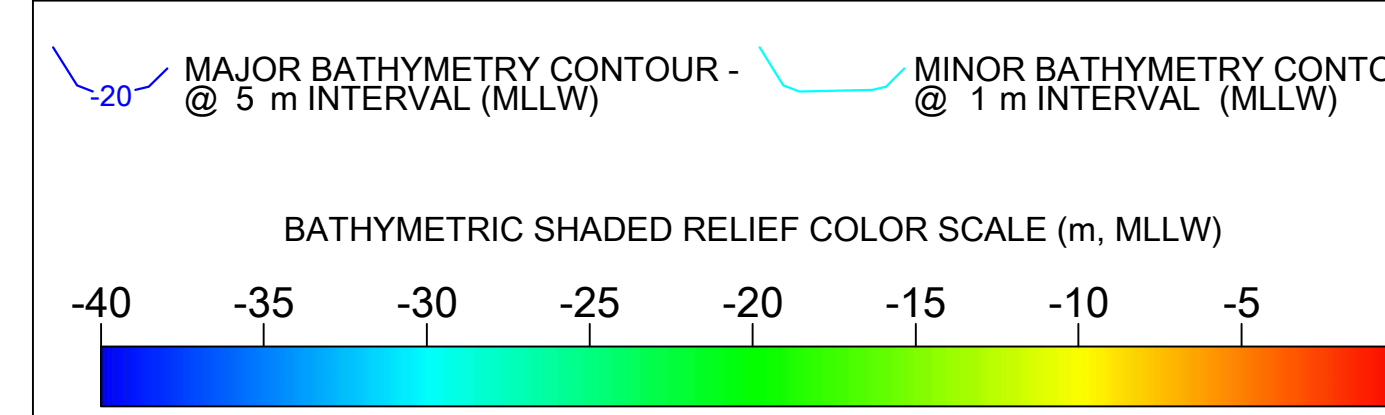


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

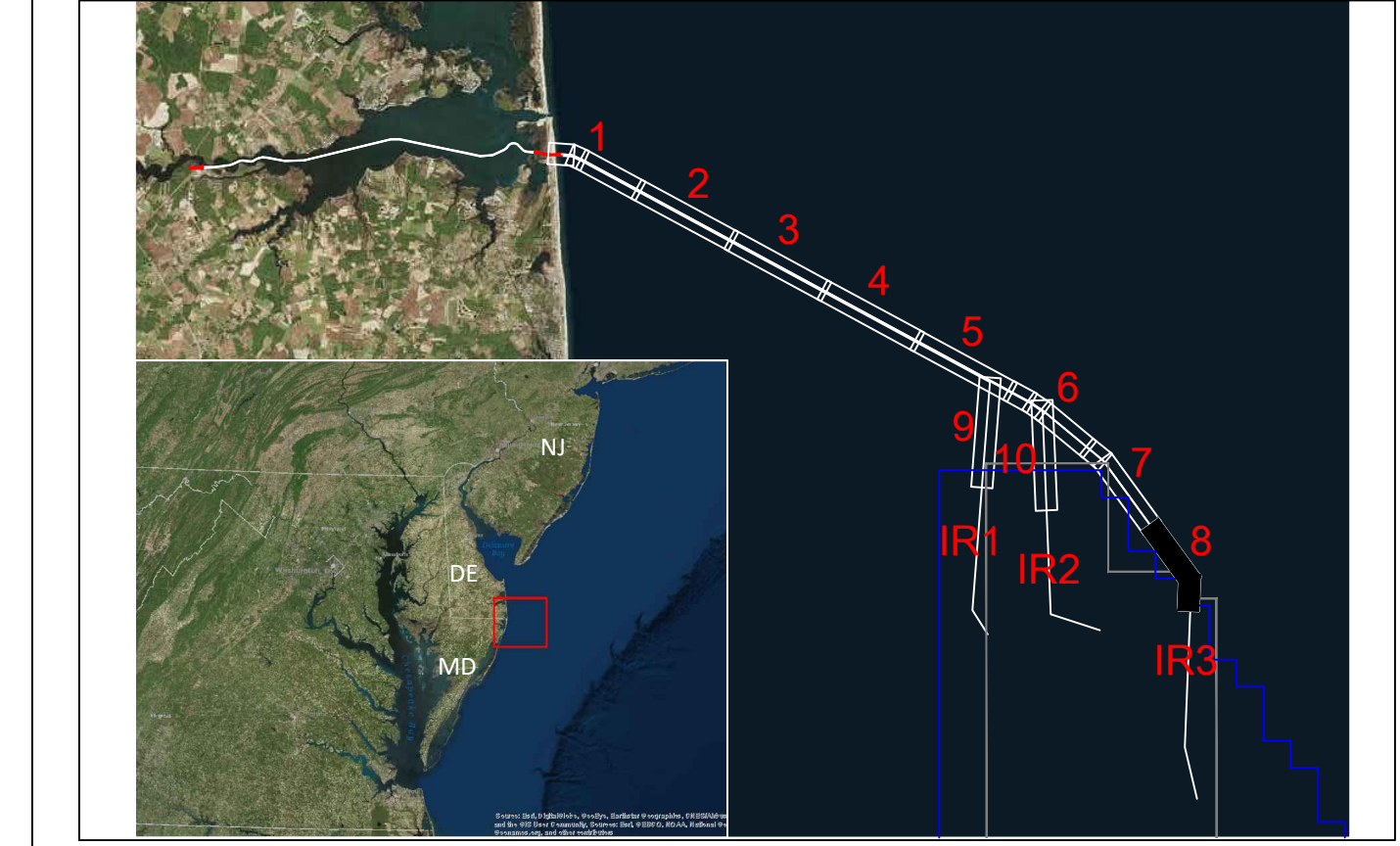
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

* Geological Profile Images shown within the profile are NOT TO SCALE.

GENERAL NOTES

- The data depicted on this drawing represents the results of geophysical surveys performed between August 25 - September 1, 2016, as well as a Geotechnical Survey performed between September 1 - 14, 2016 and can only be considered to indicate the general conditions existing at the time of survey.
- SURVEY DATA ACQUISITION EQUIPMENT:
 - a) Applanix POS MV
 - b) Reson 7125 MBES System
 - c) Klein 3900 Side Scan Sonar
 - d) Benthos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
- Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR3-OCEAN CABLE ROUTE

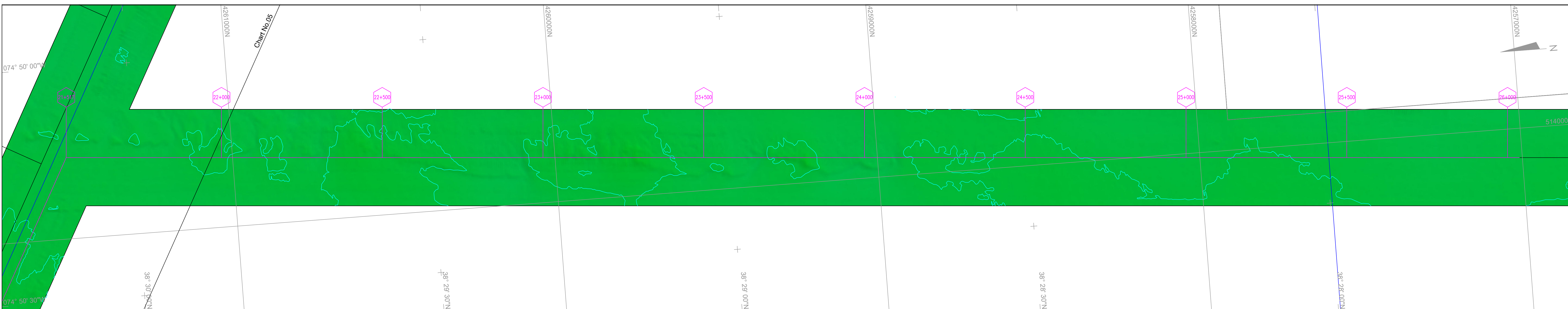
KP 31+214 to KP 35+099

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

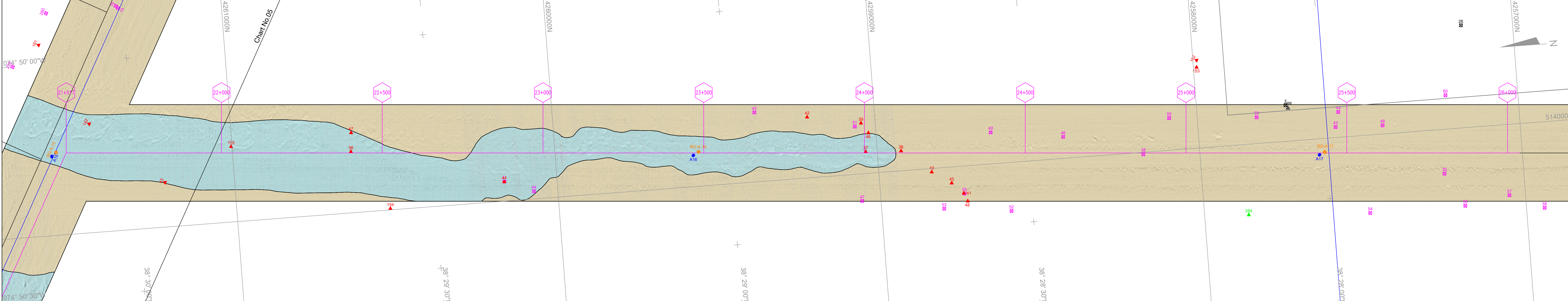
SCALE: 1 : 5,000 (1 cm = 50 meters)	DATUM: NAD83 VERTICAL: MLLW	PROJECTION: UTM83-18	SECRET/NOFORN INFORMATION	Project Name: Aligned_001.dwg Client: US Wind Drawn By: J. Blake Checked By: CM.D.W. Jr. Party Chief: W.L. Dow Scale: 07.48 Author: CM.D.W. Jr. Issue Date: 12/15/2017 Drawing Date: 03/25/2018 - 04/04/2018 Sheet No: 08 of 10
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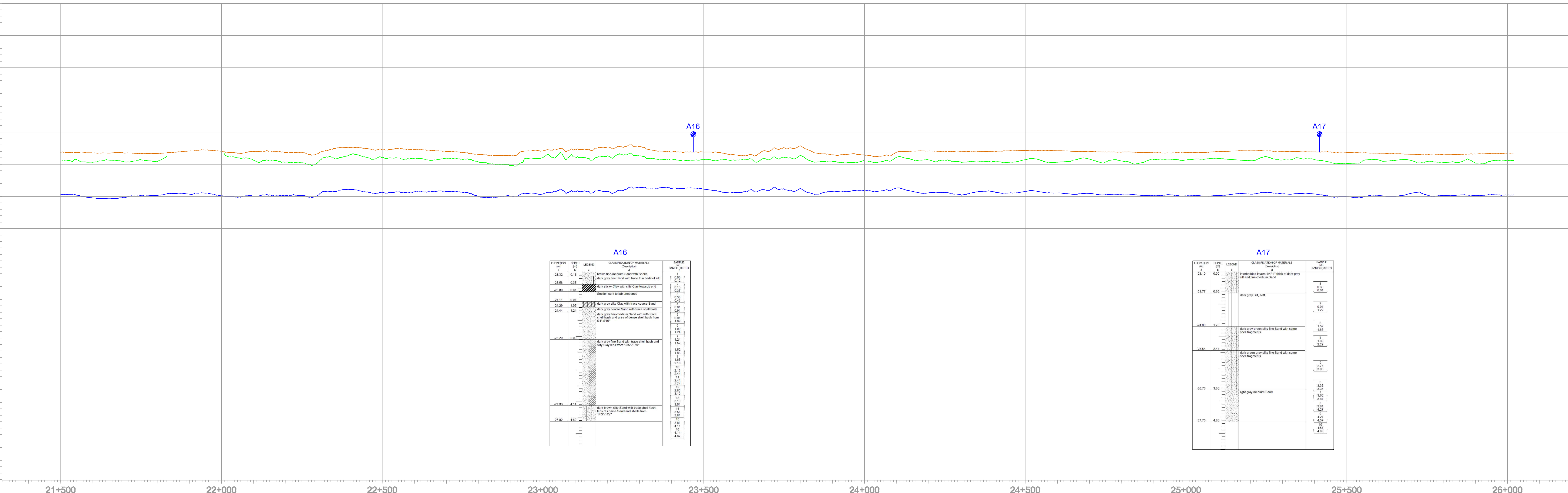
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

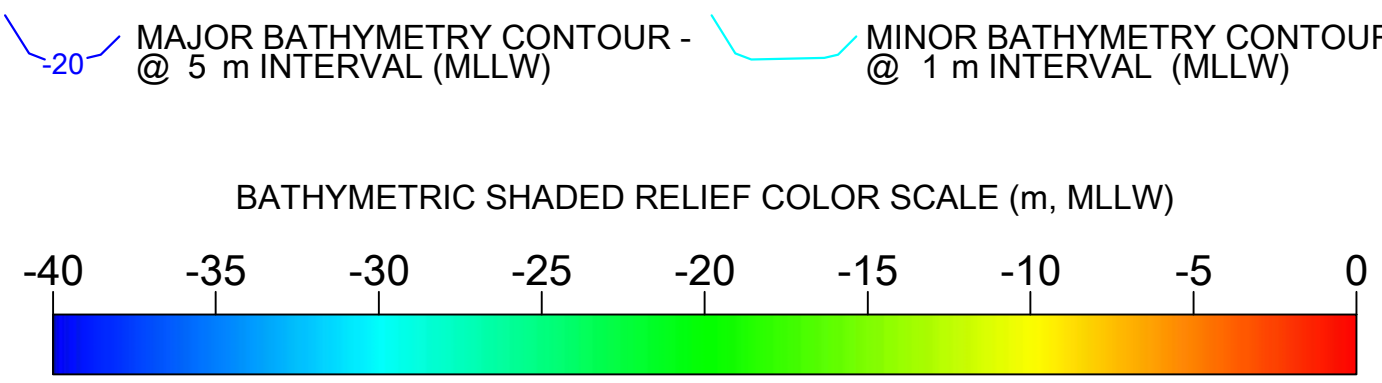


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEA SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEA MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEA ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

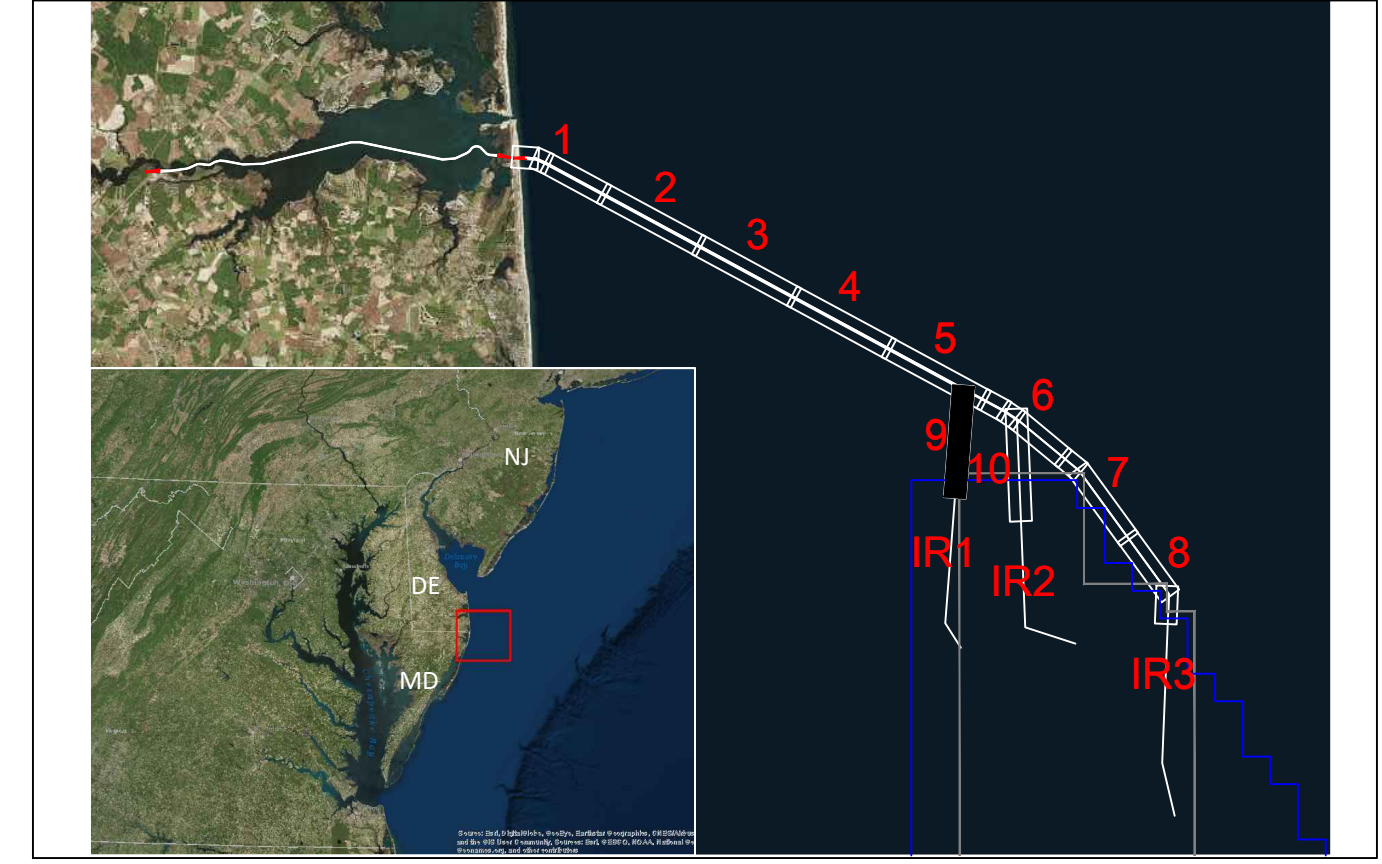
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

* Geological Profile Images shown within the profile are NOT TO SCALE.

GENERAL NOTES

1. The data depicted on this drawing represents the results of geophysical surveys performed between August 25 - September 1, 2016, as well as a Geotechnical Survey performed between September 1 - 14, 2016 and can only be considered to indicate the general conditions existing at the time of survey.
2. SURVEY DATA ACQUISITION EQUIPMENT:
 - a) Applanix POS MV
 - b) Reson 7125 MBES System
 - c) Klein 3900 Side Scan Sonar
 - d) Benlithos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
3. Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
4. Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
5. Vertical Datum: MLLW, meters.
6. Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR1-OCEAN CABLE ROUTE

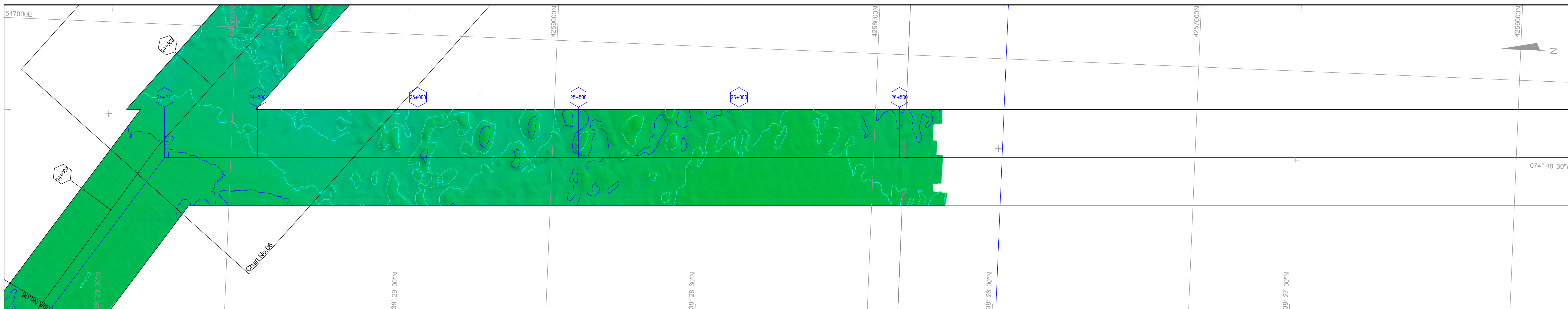
KP 21+517 to KP 26+037
Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

SCALE: 1:5,000 (1 cm = 50 meters)	DATUM: NAD83	VERTICAL: MLLW	PROJECTION: UTM83-18
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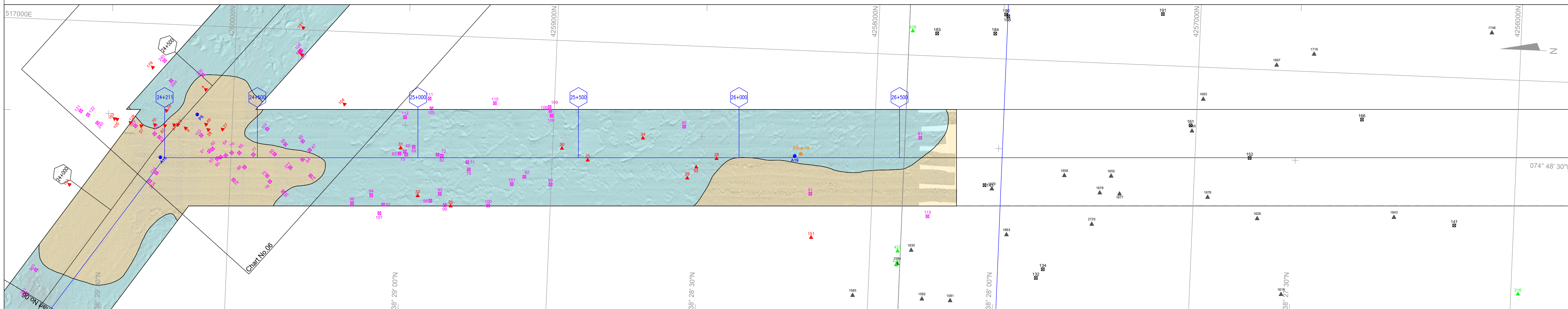
Alpine

ALPINE OCEAN SEISMIC SURVEY, INC. 155 Hudson Ave. Newark, NJ 07102 Tel: 201-768-8000 Fax: 201-768-5750 www.alpineocean.com

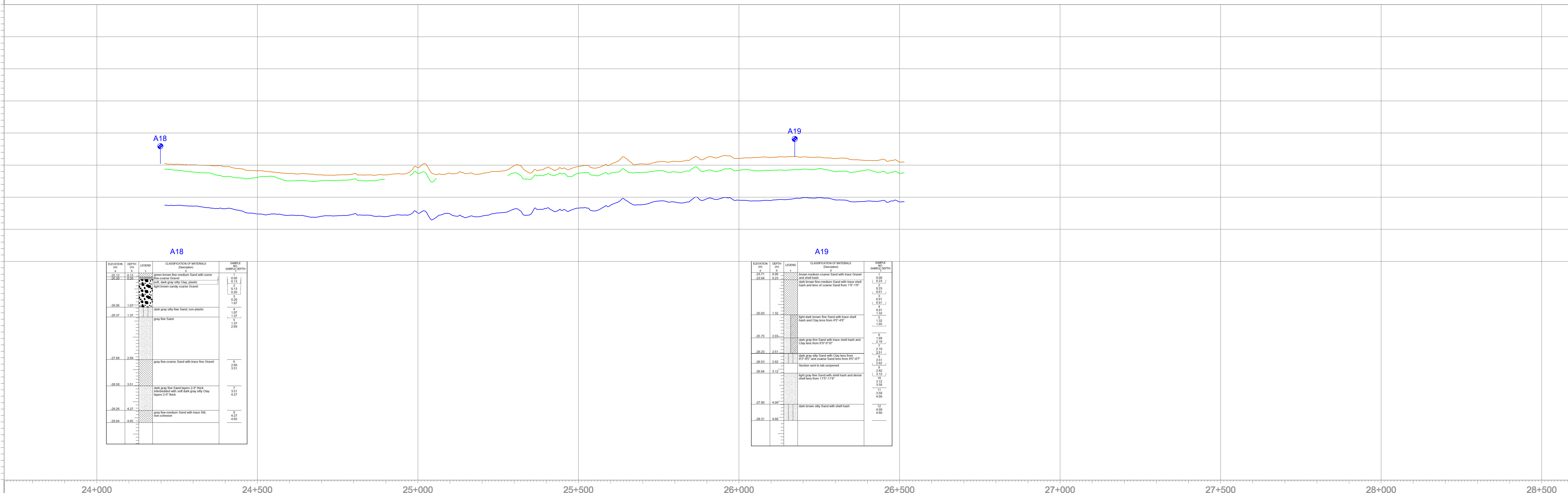
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

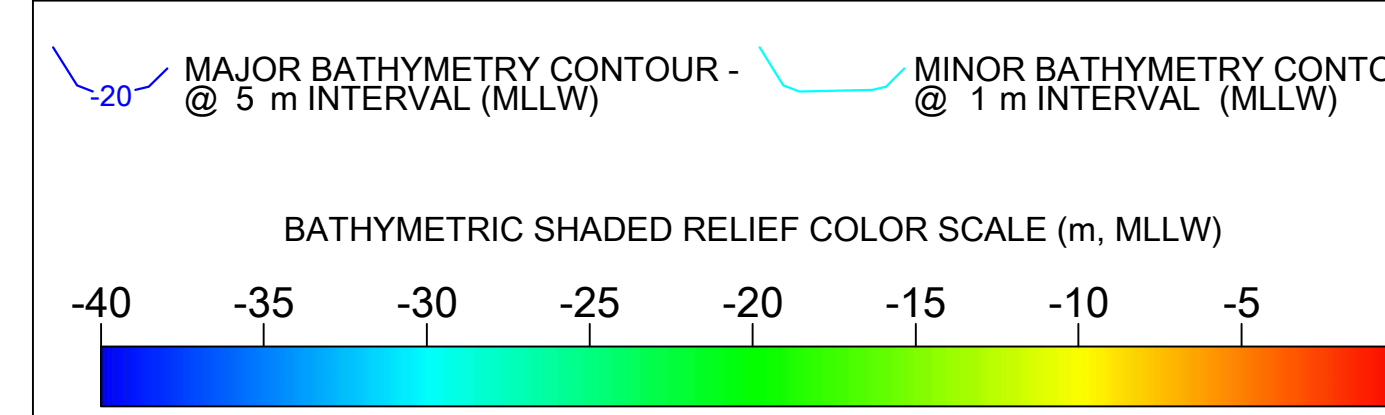


FOR FUTURE USE

LEGEND

- 1+000 KILOMETER POSTS ALONG ROUTE
- IR3-OCEAN ROUTE CENTERLINE
- 1+000 KILOMETER POSTS ALONG ROUTE
- IR2-OCEAN ROUTE CENTERLINE
- 1+000 KILOMETER POSTS ALONG ROUTE
- IR1-OCEAN ROUTE CENTERLINE
- WEA BOUNDARY
- US WIND BOUNDARY
- CHART MATCH LINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MEAS SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- MEAS MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID
- 2015 ALPINE SURVEY SIDE SCAN SONAR TARGET & ID
- MEAS ARCHAEOLOGICAL SIDE SCAN SONAR TARGET & ID
- 2015 ALPINE SURVEY MAGNETOMETER TARGET & ID

GEOLOGICAL PROFILE

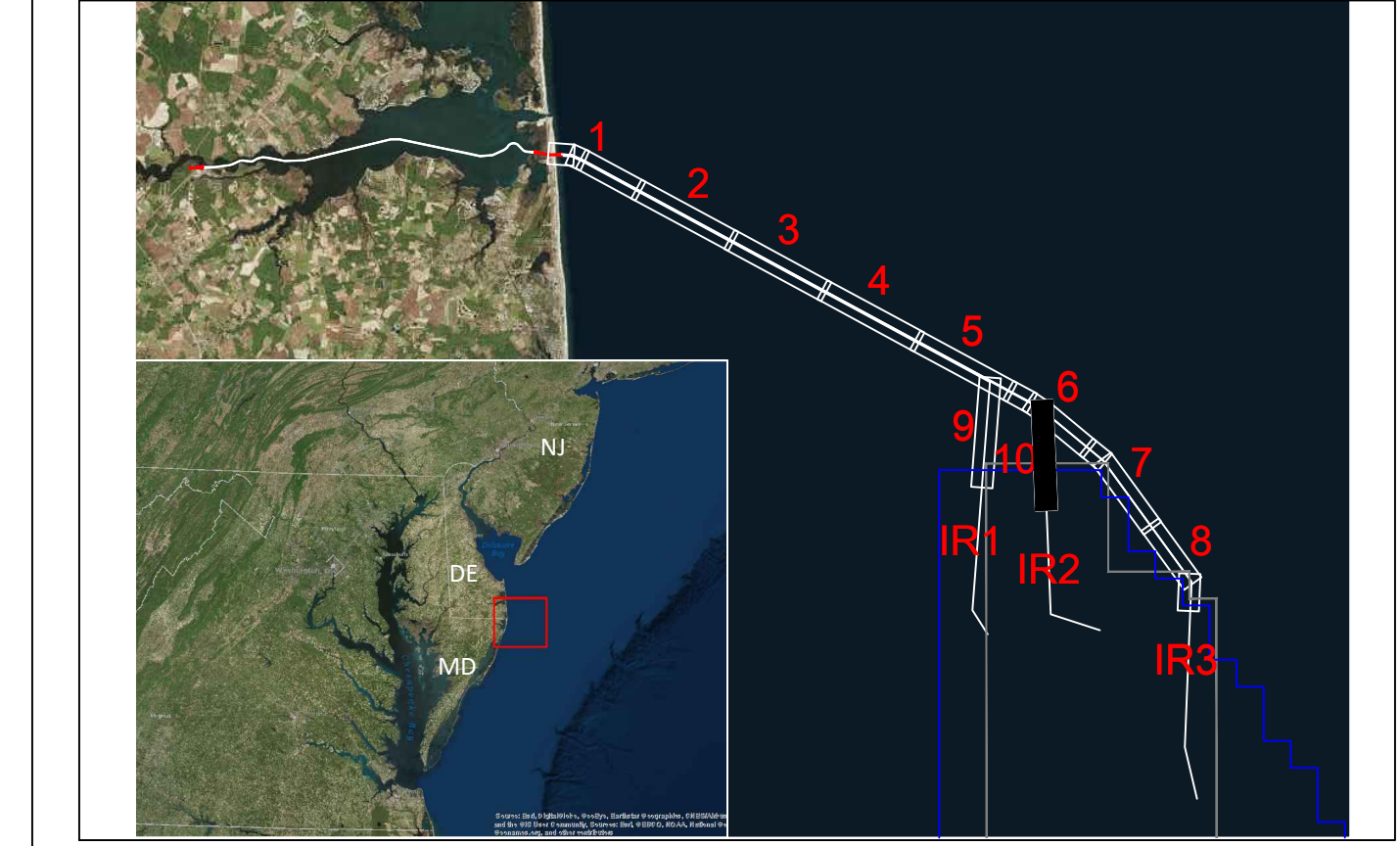
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

* Geological Profile Images shown within the profile are NOT TO SCALE.

GENERAL NOTES

- The data depicted on this drawing represents the results of geophysical surveys performed between August 25 - September 1, 2016, as well as a Geotechnical Survey performed between September 1 - 14, 2016 and can only be considered to indicate the general conditions existing at the time of survey.
- SURVEY DATA ACQUISITION EQUIPMENT:
 - a) Applanix POS MV
 - b) Reson 7125 MBES System
 - c) Klein 3900 Side Scan Sonar
 - d) Benlithos CHIRP III Sub-bottom Profiler
 - e) Geometrics G882 Cesium Vapor Marine Magnetometer
 - f) Sontek Castaway CTD
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
- Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



IR2-OCEAN CABLE ROUTE

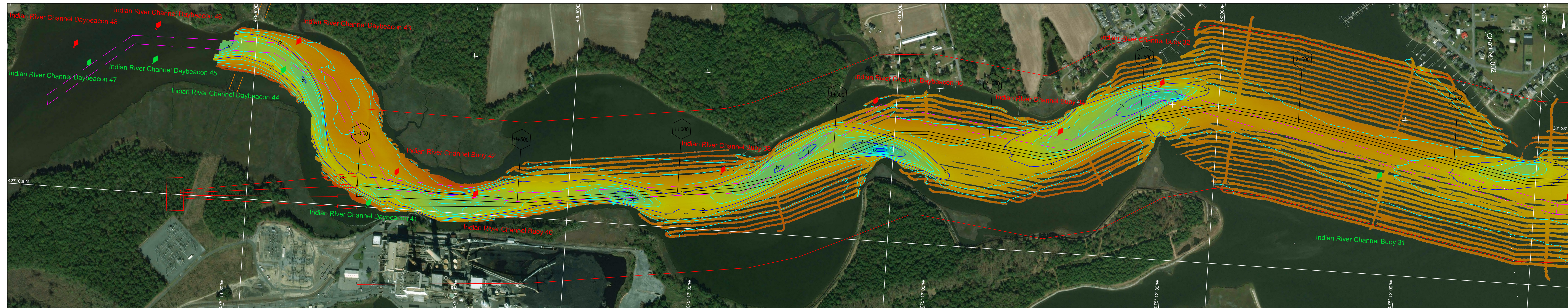
KP 24+211 to KP 26+514

Export Cable Route Survey
Offshore Delaware and Maryland
Lease Blocks OCS-A 0489 & OCS-A 0490

SCALE: 1:5,000 (1 cm = 50 meters)	DATUM: NAD83 VERTICAL: MLLW	PROJECTION: UTM83-18	Sheet Name: Aligned_IR2_001.dwg User: J. Blakey Date: 12/15/2017 Scale: 10 of 10
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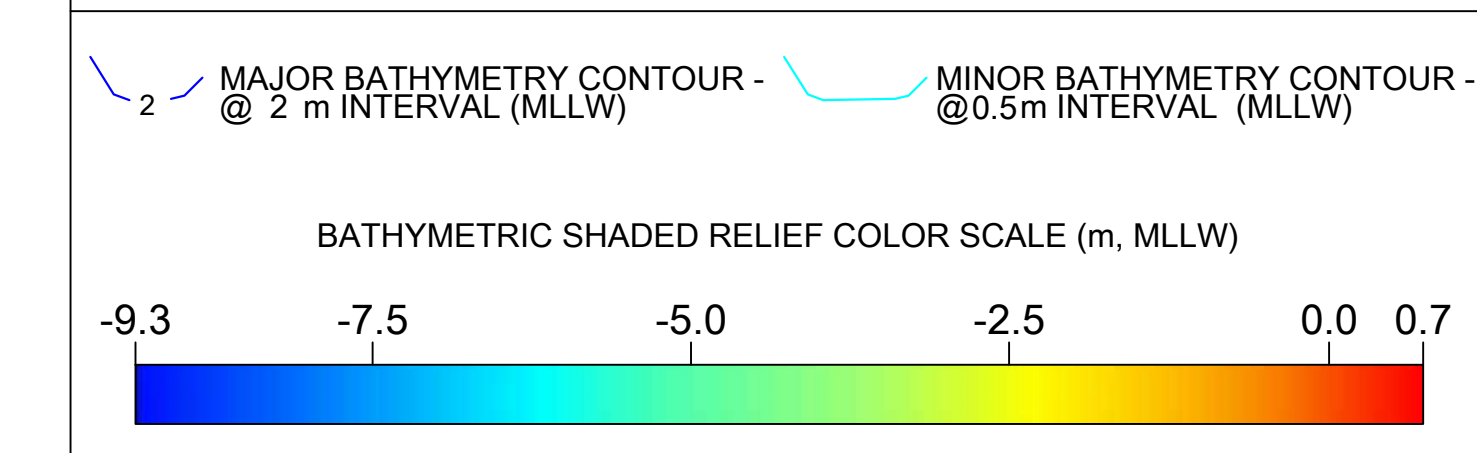
BATHYMETRY



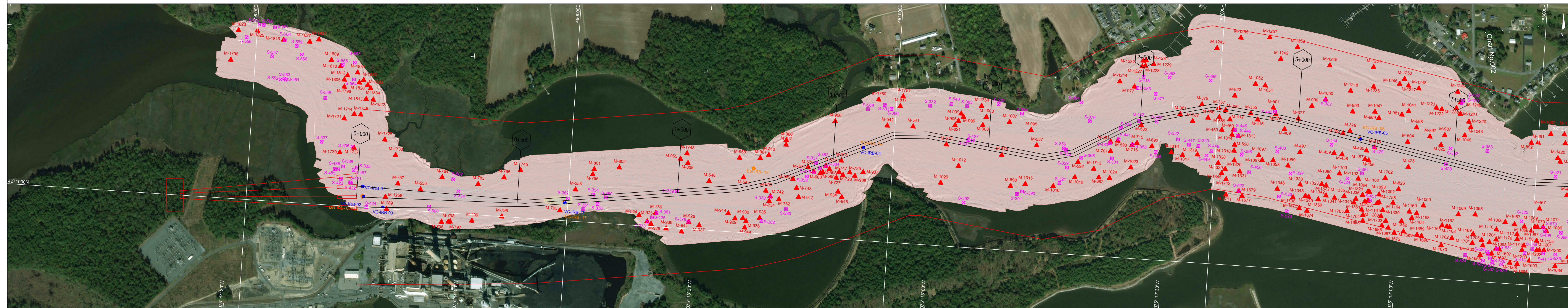
LEGEND

- KILOMETER POSTS ALONG ROUTE
- IRB - ROUTE CENTERLINE
- CHART MATCH LINE
- AIDS TO NAVIGATION
- WRECKS AND OBSTRUCTIONS
- SURVEY BOUNDARY
- ANCHORAGE AREA
- MAINTAINED CHANNEL
- OVERHEAD POWERLINE

BATHYMETRY

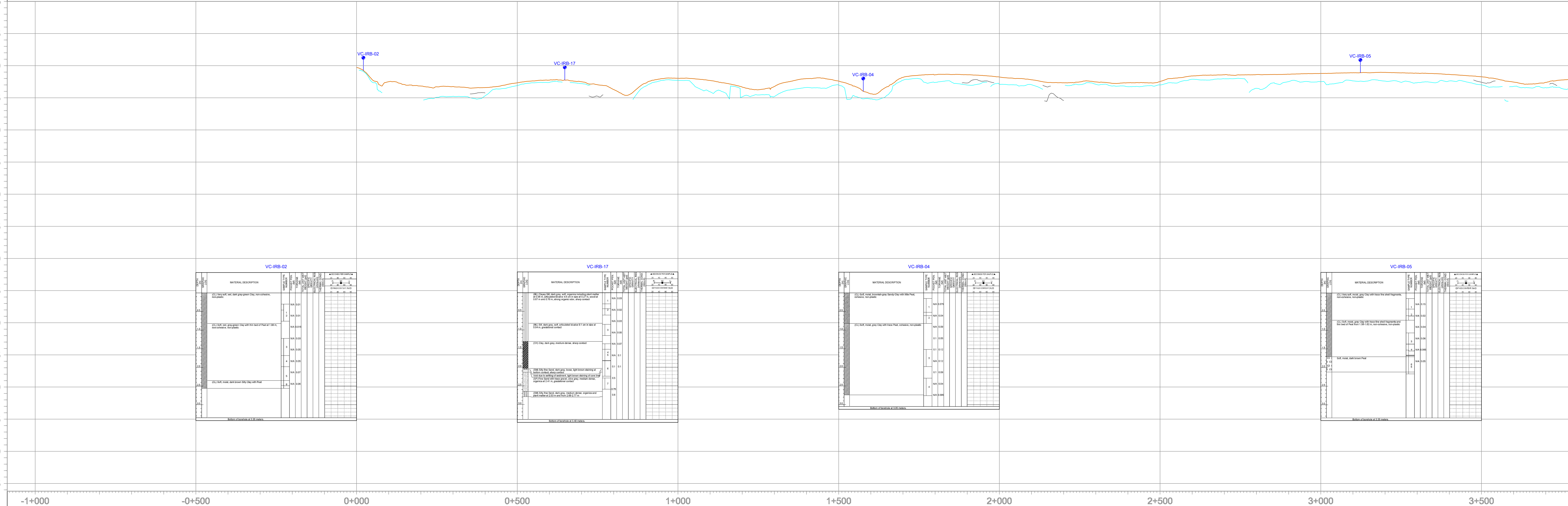


SEABED FEATURES



- SEAFLOOR FEATURES AND SHALLOW GEOLOGY**
- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
 - MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
 - MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
 - SAND RIPPLES
 - SIDE SCAN SONAR TARGET & ID
 - MAGNETOMETER TARGET & ID
 - CORE LOCATION & ID
 - GRAB SAMPLE LOCATION & ID

GEOLOGICAL PROFILE



GEOLOGICAL PROFILE

- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- GEOLOGICAL PROFILE
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

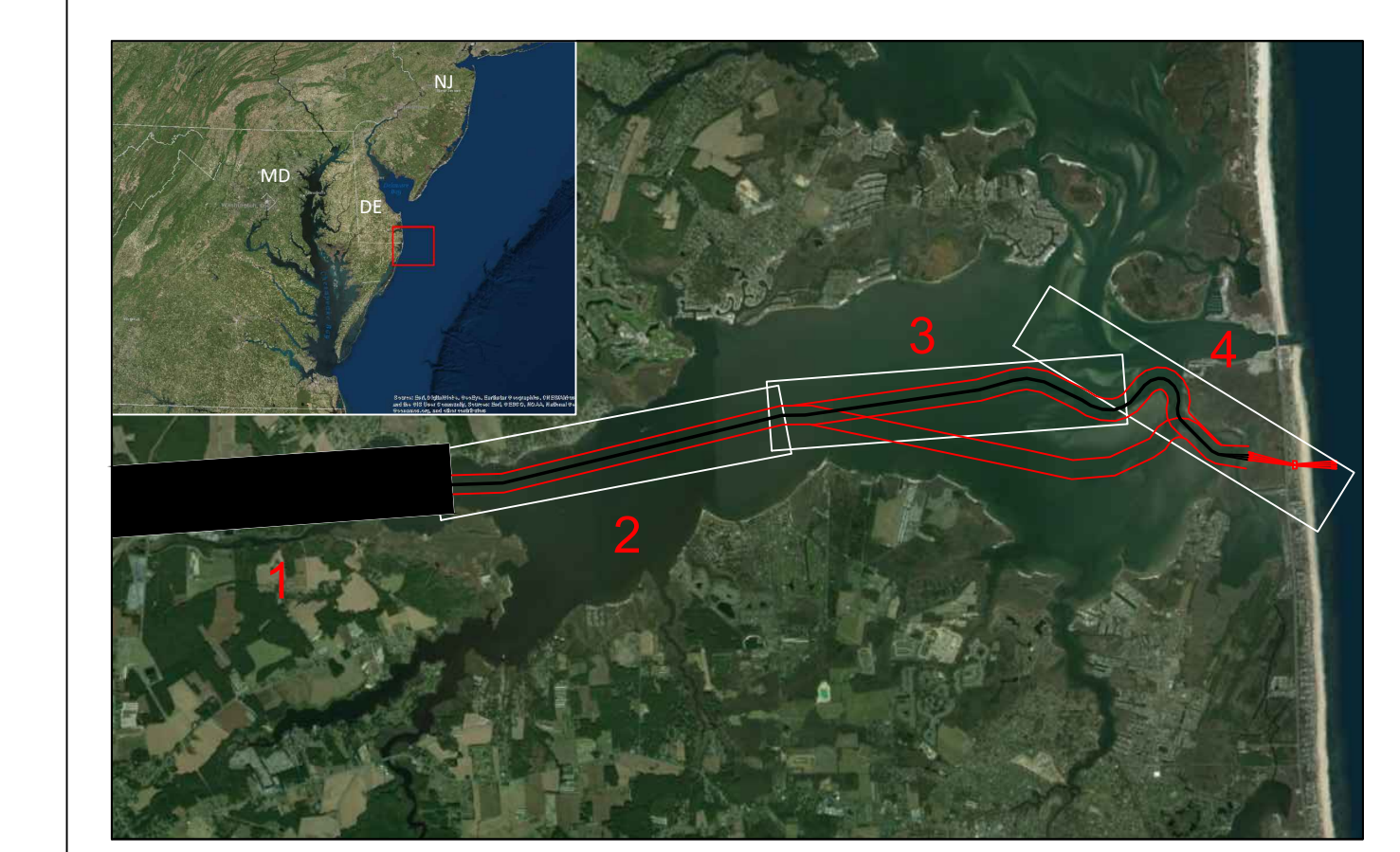
* Geological Profile Images shown within the profile are NOT TO SCALE.

GENERAL NOTES

- The data depicted on this drawing represents the results of geophysical surveys performed between October 13 - November 3, 2016 and September 22 - October 3, 2017 and ; as well as a Geotechnical Survey performed between October 5 - 14, 2017 and can only be considered to indicate the general conditions existing at the time of survey.
- SURVEY DATA ACQUISITION EQUIPMENT**
 - Navigation: Applanix POS MV
 - Multibeam Echosounder/Side Scan Sonar: Edgetech 6205
 - Sub-bottom Profiler: Edgetech 3100P with 216s
 - Magnetometer: Geometrics G882 Cesium
 - CTD: Sontek Castaway
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
- Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

FOR FUTURE USE

US Wind
1 North Charles Street, Suite 2310
Baltimore, MD 21201



KP 0+000 to KP 3+802

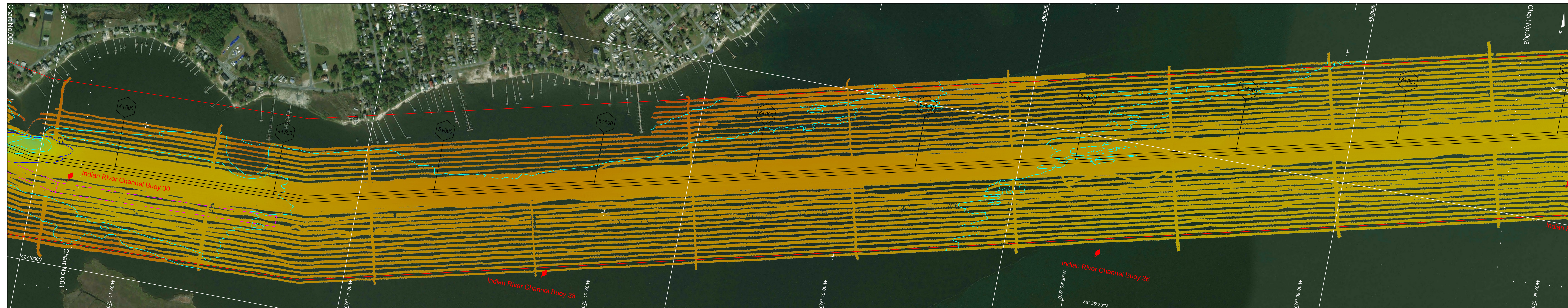
Export Cable Route Survey
Inshore - Indian River Bay
Lease Blocks OCS-A 0489 & OCS-A 0490

SCALE: 1 : 5,000 (1 cm = 50 meters)	VERTICAL: MLLW PROJECTION: UTM83-18	DATE: NAD83 APPROVED BY: J. Bailey DATE: 09/15/2016	ISS: Alpine, 202001.dwg PROJECT: Inshore - Indian River Bay DRAWN BY: J. Bailey CHECKED BY: J. Bailey DATE: 09/15/2016 SHEET NO: 001 OF 004
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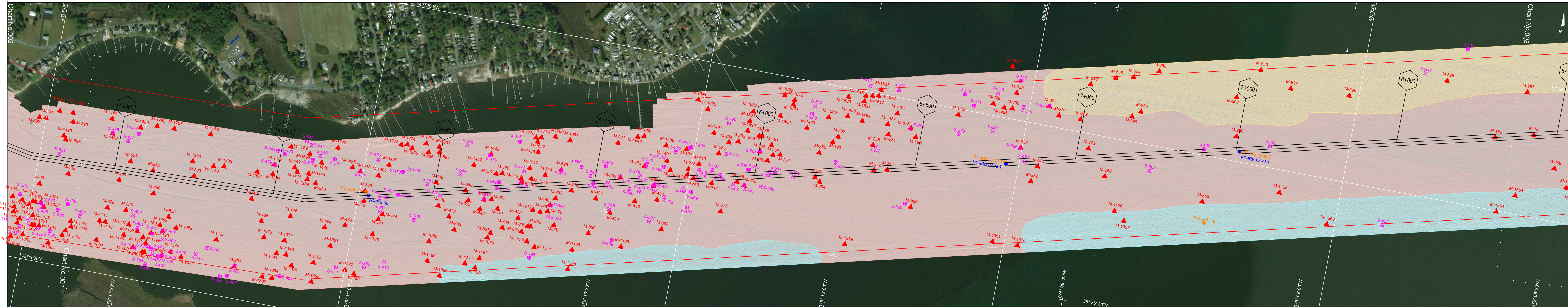
Alpine

ALPINE OCEAN SEISMIC SURVEY, INC. 150 Hudson Ave. Newark, New Jersey 07102 Tel: 201-768-8000 Fax: 201-768-8750 www.alpineocean.com

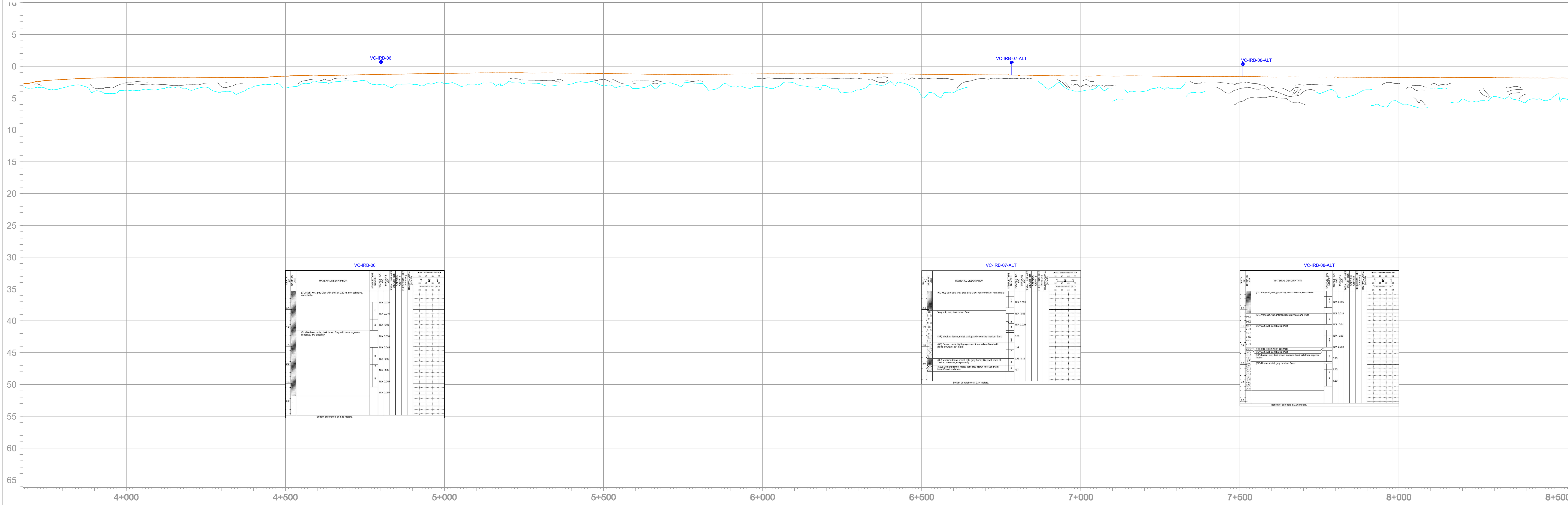
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

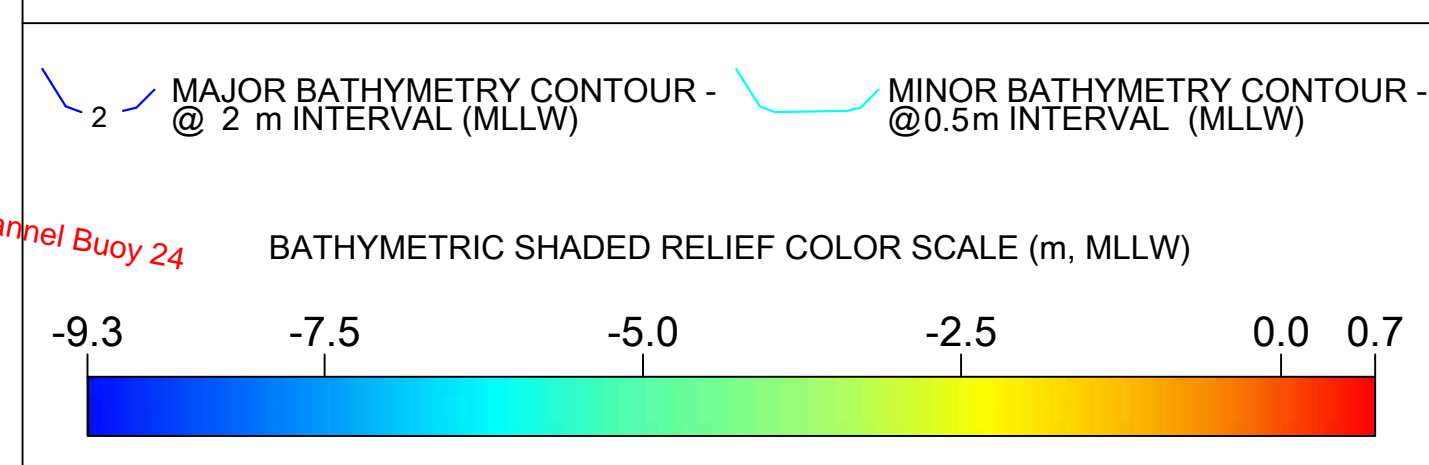


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IRB - ROUTE CENTERLINE
- CHART MATCH LINE
- AIDS TO NAVIGATION
- WRECKS AND OBSTRUCTIONS
- SURVEY BOUNDARY
- ANCHORAGE AREA
- MAINTAINED CHANNEL
- OVERHEAD POWERLINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
- MEDIUM REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, SOME AREAS OF SAND RIPPLES, ISOLATED PATCHES OF SILT-CLAY
- MEDIUM TO HIGH REFLECTIVITY BOTTOM, FINE TO COARSE GRAINED SAND WITH GRAVEL, COBBLES AND POSSIBLE SMALL BOULDERS
- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID

GEOLOGICAL PROFILE

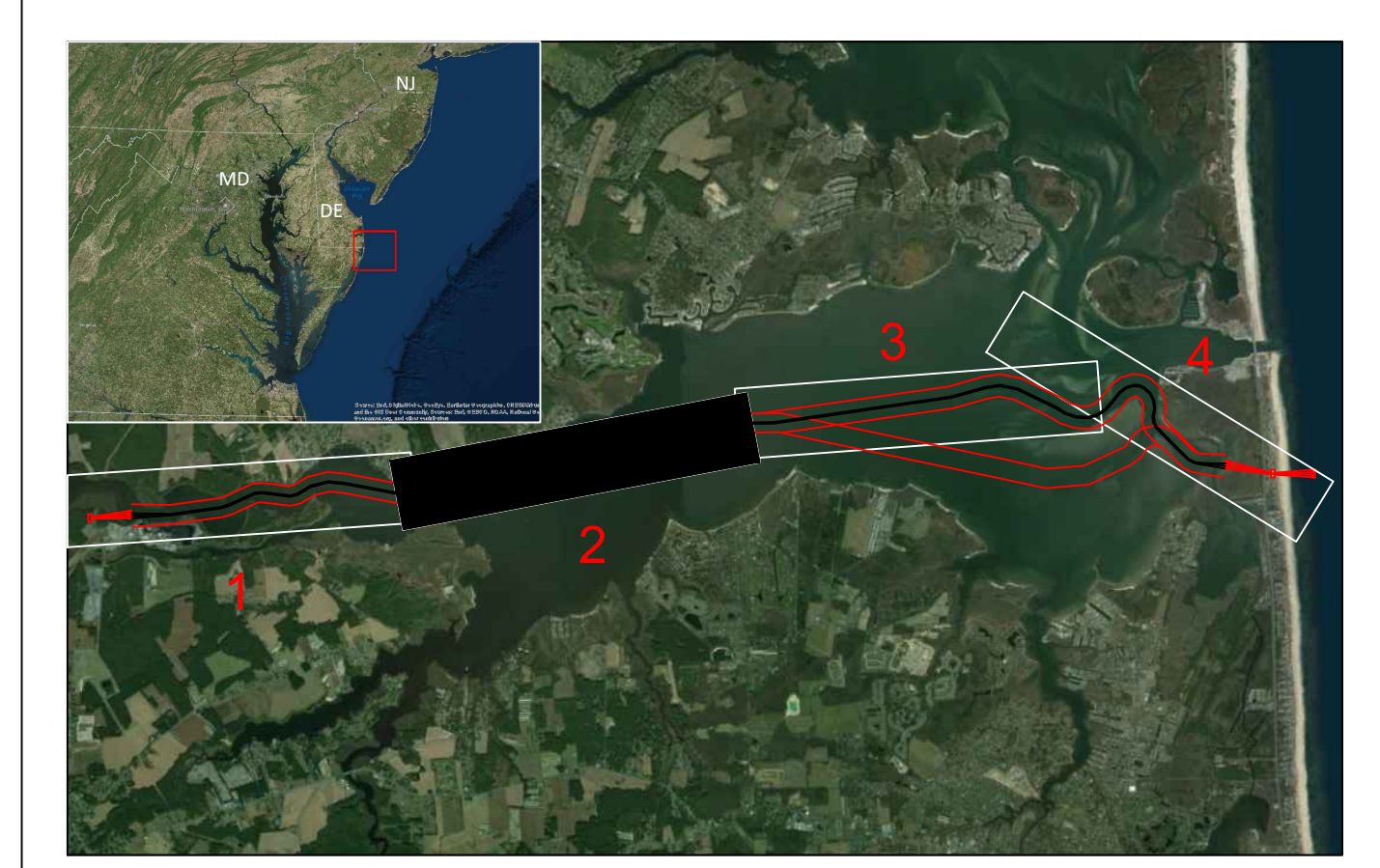
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

* Geological Profile Images shown within the profile are NOT TO SCALE.

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- SURVEY DATA ACQUISITION EQUIPMENT
 - a) Navigation: Applanix POS MV
 - b) Multibeam Echosounder/Side Scan Sonar: Edgetech 6205
 - c) Sub-bottom Profiler: Edgetech 3100P with 216s
 - d) Magnetometer: Geometrics G882 Cesium
 - e) CTD: Sontek Castaway
- Background imagery is provided for reference only, sources acquired from NAIP Color Imagery - 1m resolution.
- Horizontal Datum: UTM Zone 18N, NAD 1983, meters.
- Vertical Datum: MLLW, meters.
- Vertical References are elevations in meters.

US Wind
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KP 3+675 to KP 8+565

Export Cable Route Survey
Inshore - Indian River Bay
Lease Blocks OCS-A 0489 & OCS-A 0490

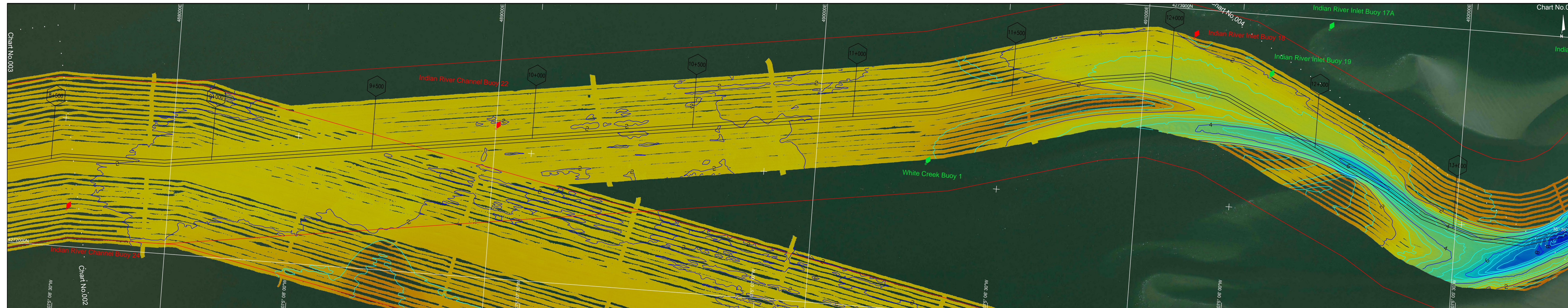
SCALE 1 : 5,000
VERTICAL: MLLW
PROJECTION: UTM83-18

SEISMIC INFORMATION
DATE: 10/13/2016
APPROVED BY: J. Bailey
DATE: 10/13/2016

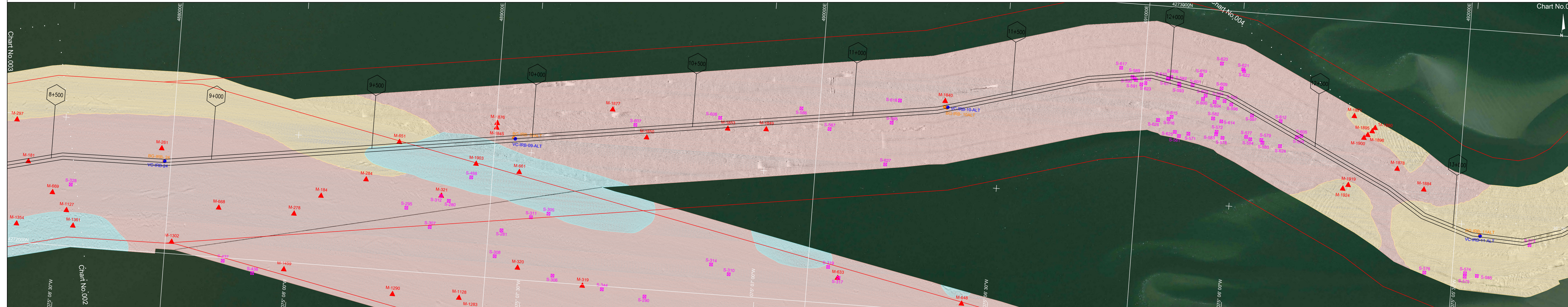
Sheet No: 002 of 004

Alpine

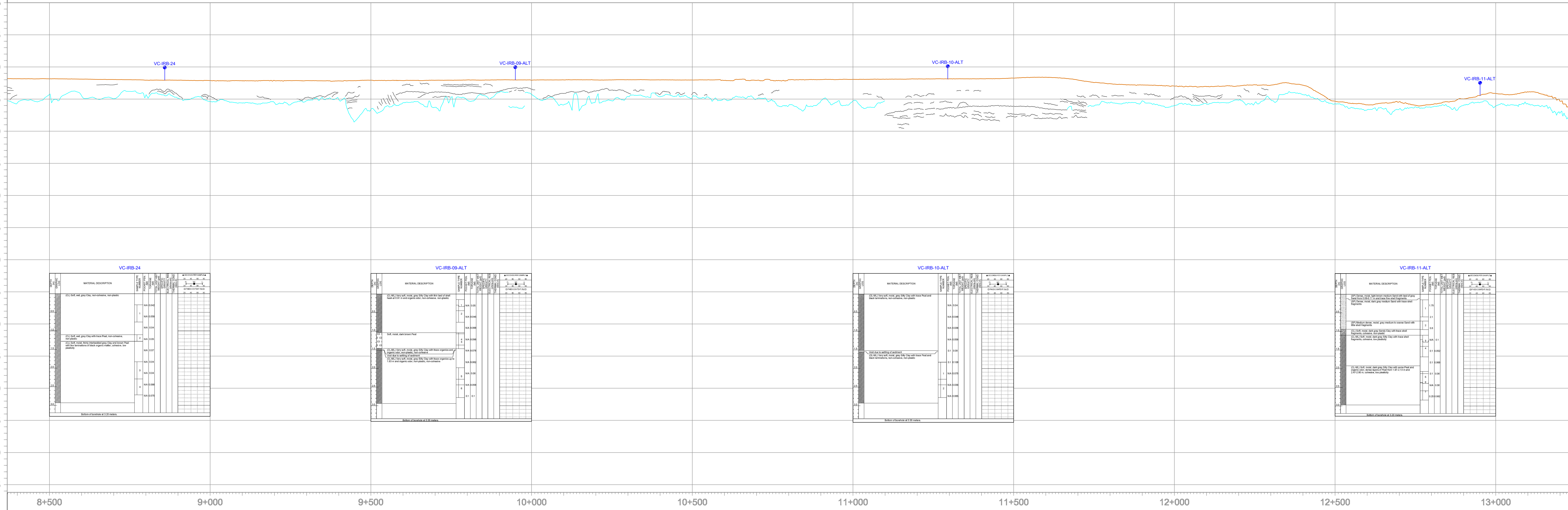
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

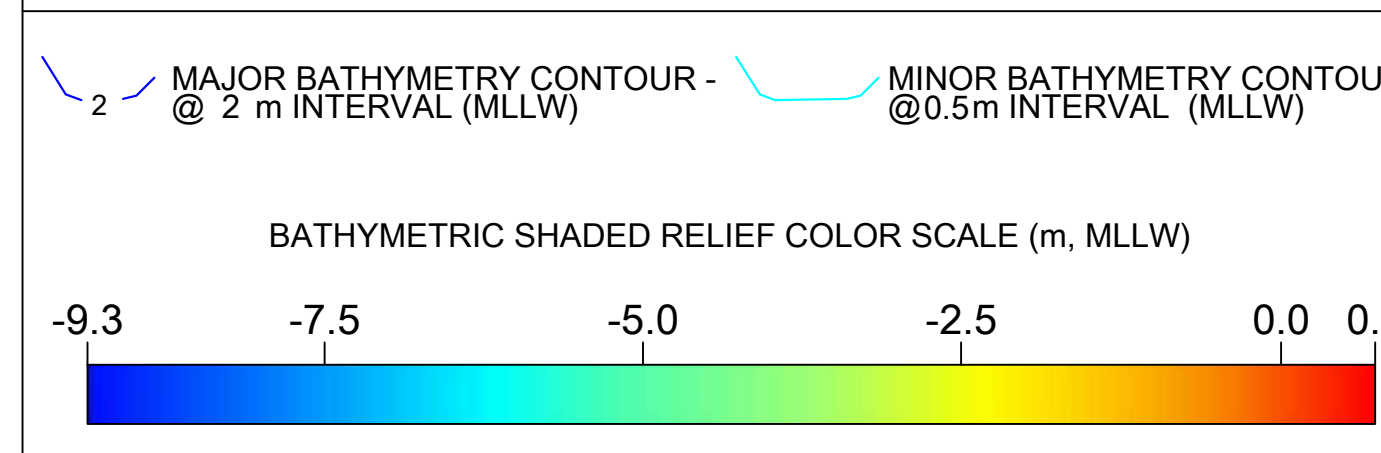


FOR FUTURE USE

LEGEND

- KILOMETER POSTS ALONG ROUTE
- IRB - ROUTE CENTERLINE
- CHART MATCH LINE
- AIDS TO NAVIGATION
- WRECKS AND OBSTRUCTIONS
- SURVEY BOUNDARY
- ANCHORAGE AREA
- MAINTAINED CHANNEL
- OVERHEAD POWERLINE

BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

- VARIABLE REFLECTIVITY BOTTOM, ALTERNATING GRAIN SIZES, SILT-CLAY, FINE TO COARSE GRAINED SAND AND GRAVEL, SAND RIPPLES COMMON
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- SAND RIPPLES
- SIDE SCAN SONAR TARGET & ID
- MAGNETOMETER TARGET & ID
- CORE LOCATION & ID
- GRAB SAMPLE LOCATION & ID

GEOLOGICAL PROFILE

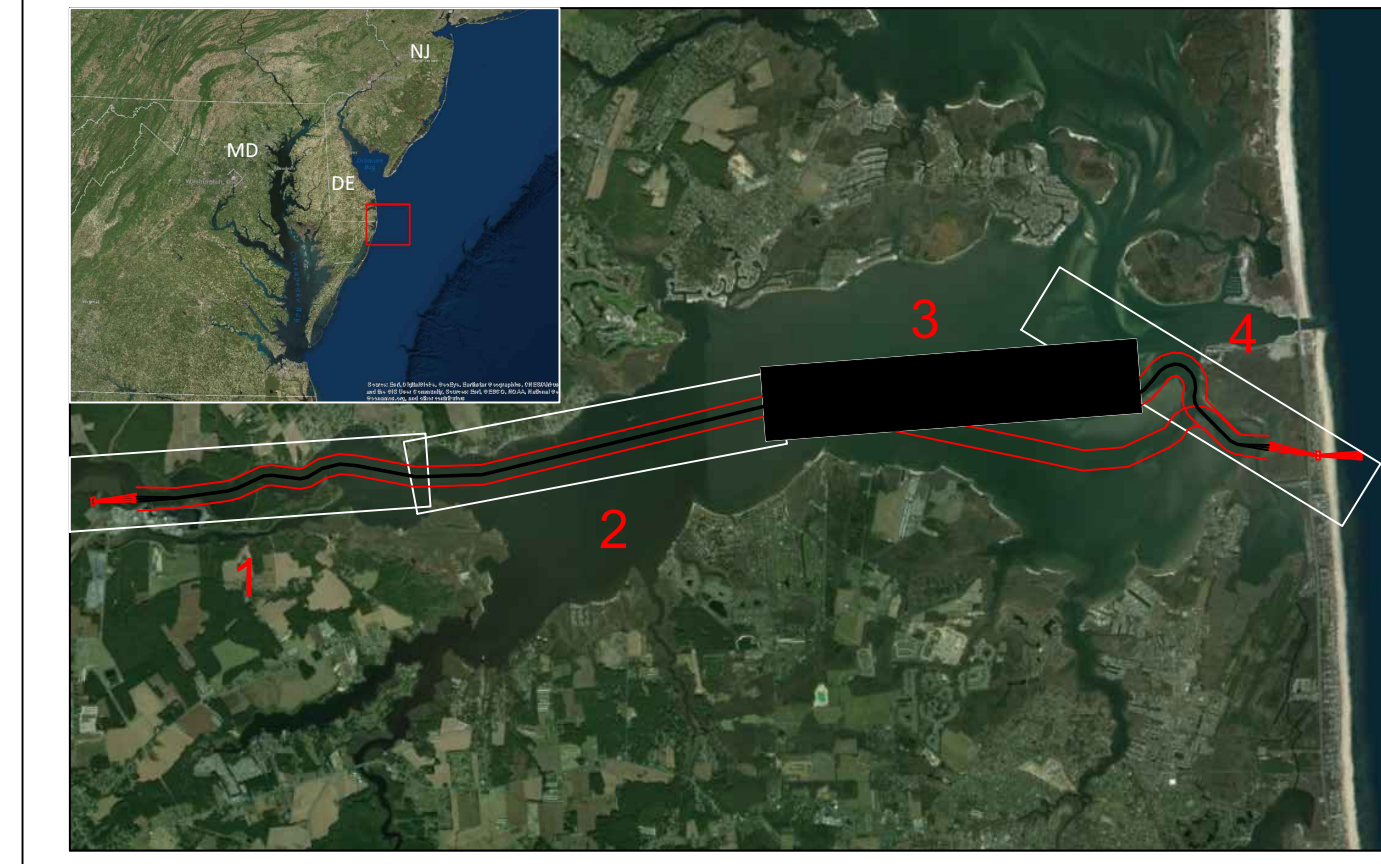
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
- U1 REFLECTOR
- INTERNAL REFLECTOR

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KP 8+369 to KP 13+258

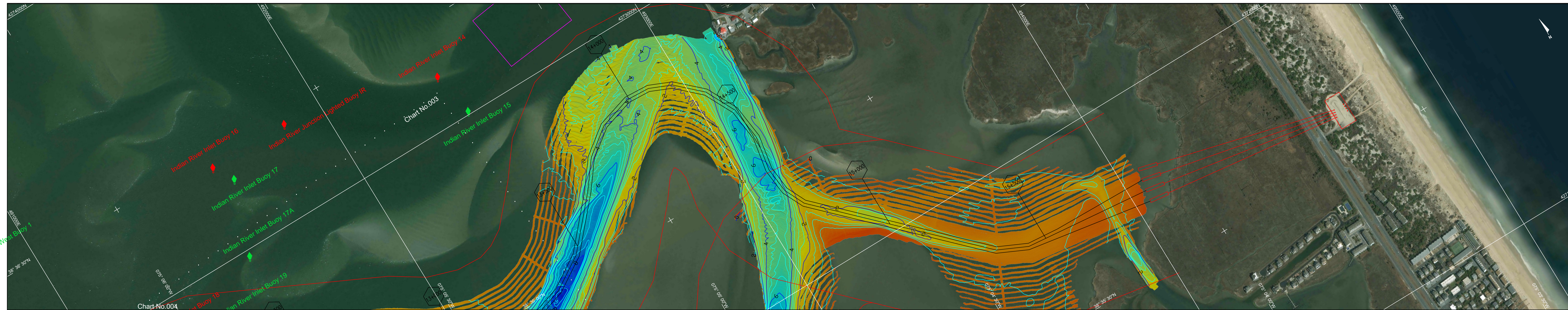
Export Cable Route Survey
Inshore - Indian River Bay
Lease Blocks OCS-A 0489 & OCS-A 0490

SCALE: 1 : 5,000 (1 cm = 50 meters)	GEODETIC INFORMATION
VERTICAL: MLLW	PROJECTION: UTM83-18

Alpine

Alpine Ocean Seismic Survey, Inc. 150 Hudson Ave. Newark, NJ 07102 Tel: 201-768-8000 Fax: 201-768-8750 www.alpineocean.com

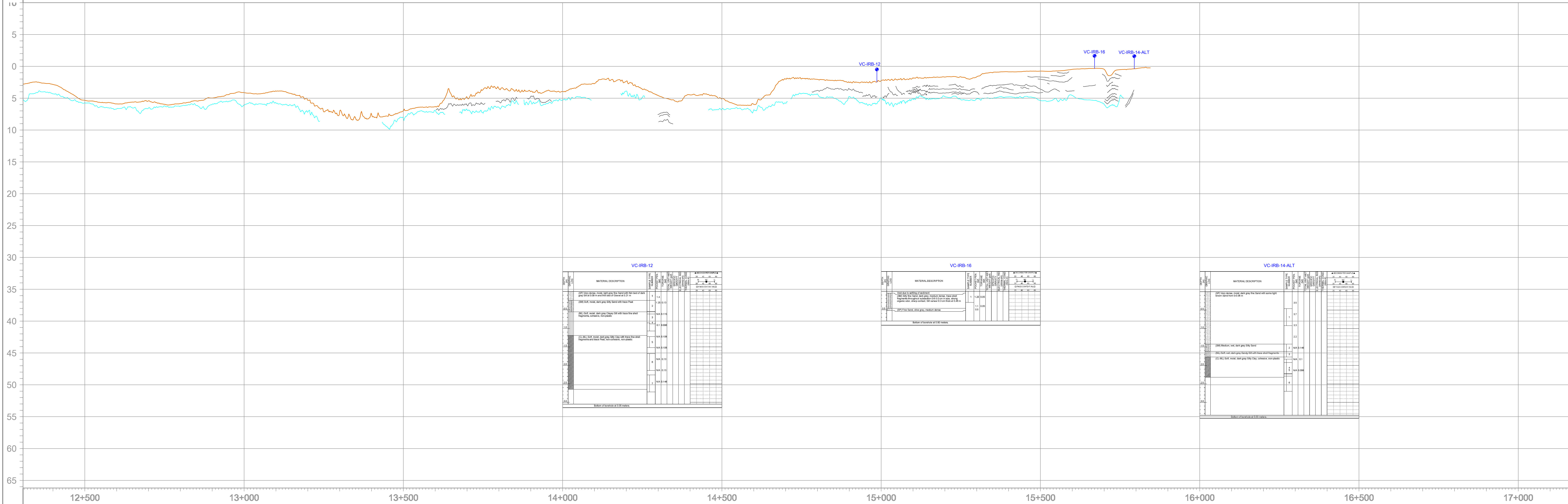
BATHYMETRY



SEABED FEATURES



GEOLOGICAL PROFILE

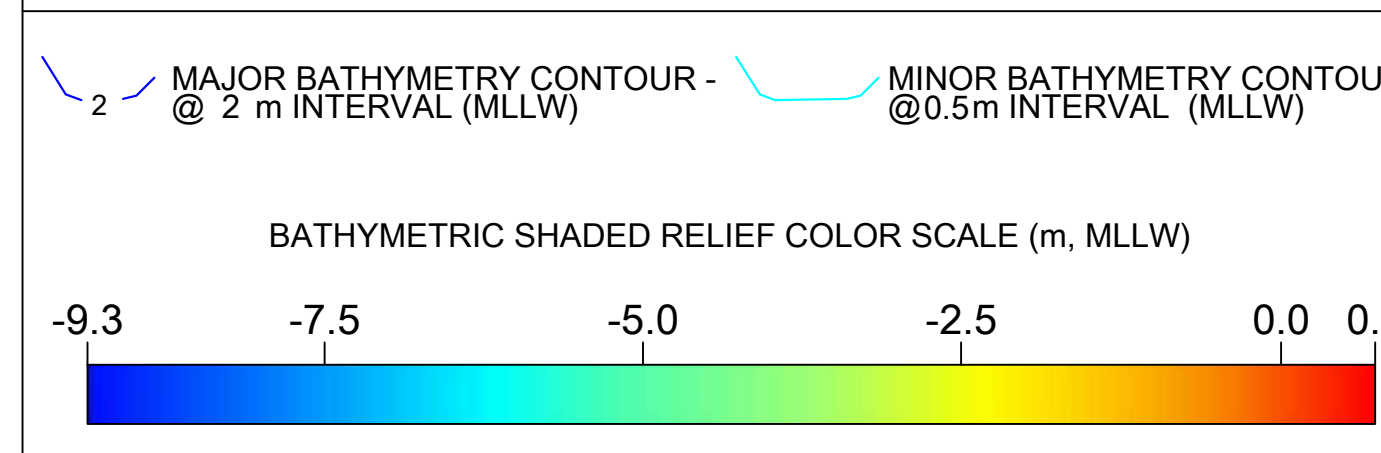


FOR FUTURE USE

LEGEND

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- IRB - ROUTE CENTERLINE
- CHART MATCH LINE
- AIDS TO NAVIGATION
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BATHYMETRY



SEAFLOOR FEATURES AND SHALLOW GEOLOGY

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GEOLOGICAL PROFILE

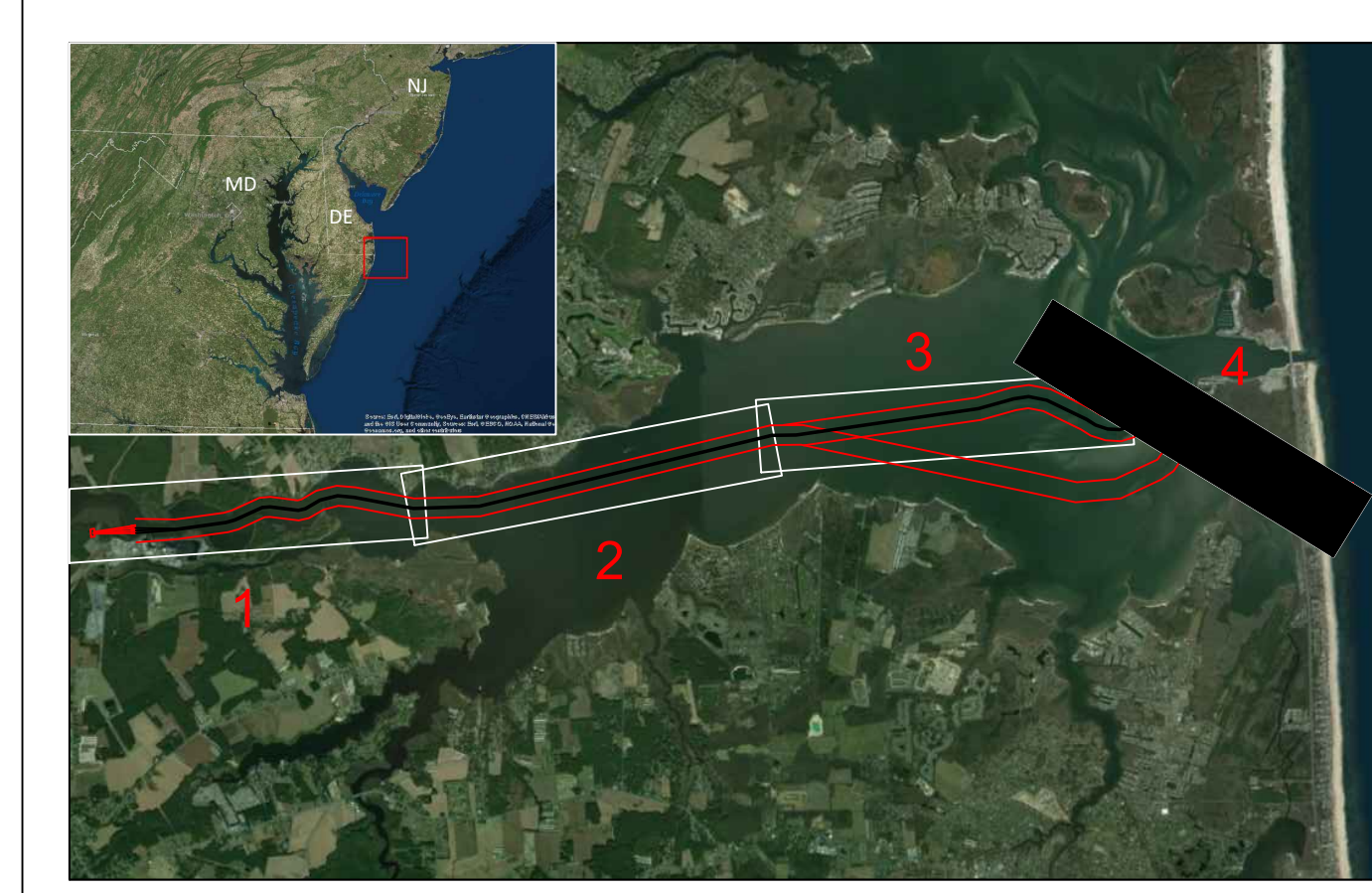
- SEABED PROFILE
- U2 REFLECTOR
- PALEOCHANNEL
- CORE LOCATION & ID (PROFILE VIEW)
- BIOGENIC GAS
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US Wind
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KP 12+306 to KP 15+845

Export Cable Route Survey
Inshore - Indian River Bay
Lease Blocks OCS-A 0489 & OCS-A 0490

SCALE: 1" = 5,000' (1" = 100 meters)	VERTICAL: MLLW	PROJECTION: UTM83-18	DATE: 10/13/2016	BY: J. Bailey
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Alpine

ALPINE OCEAN SEISMIC SURVEY, INC. 150 Hudson Ave. Newark, New Jersey 07102 Tel: 201-768-8000 Fax: 201-768-8750 www.alpineocean.com