

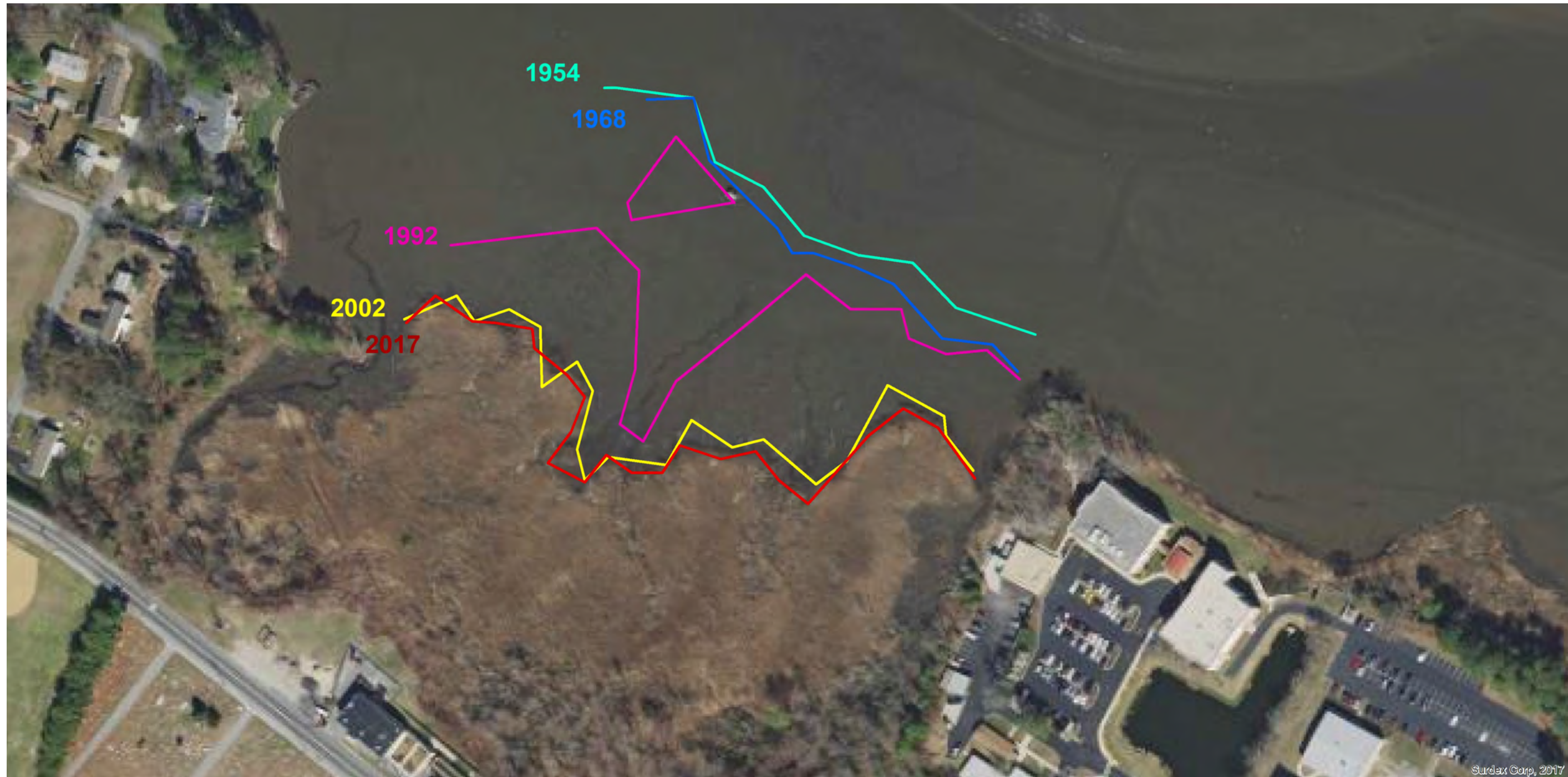
Block 19. Vicinity Map showing Town of Millsboro with project area highlighted in yellow square.



Block 19. Vicinity Map showing tax parcels owned by Town of Millsboro.



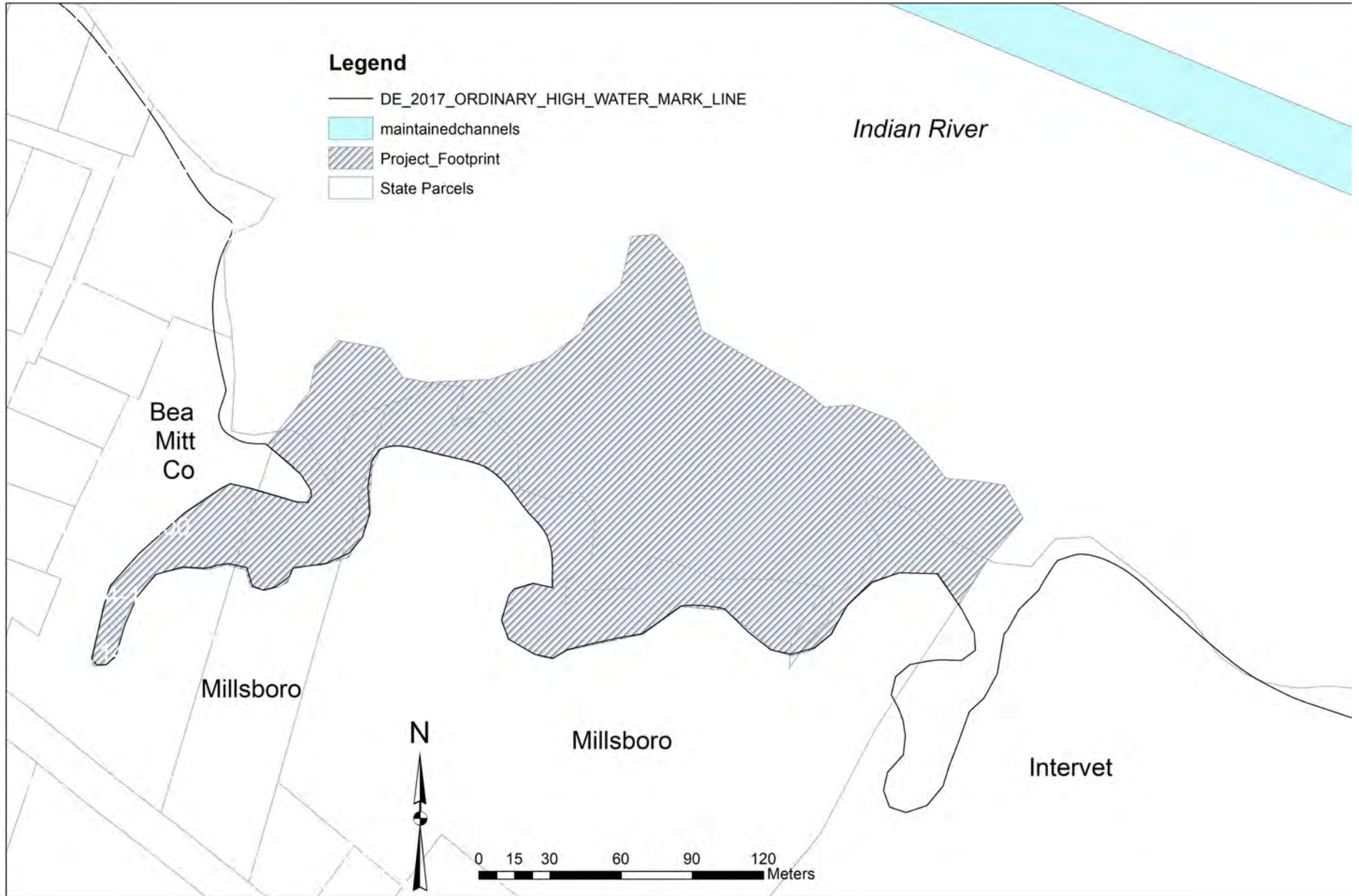
Block 21. Map showing history of receding shoreline boundary from 1954 to 2017.



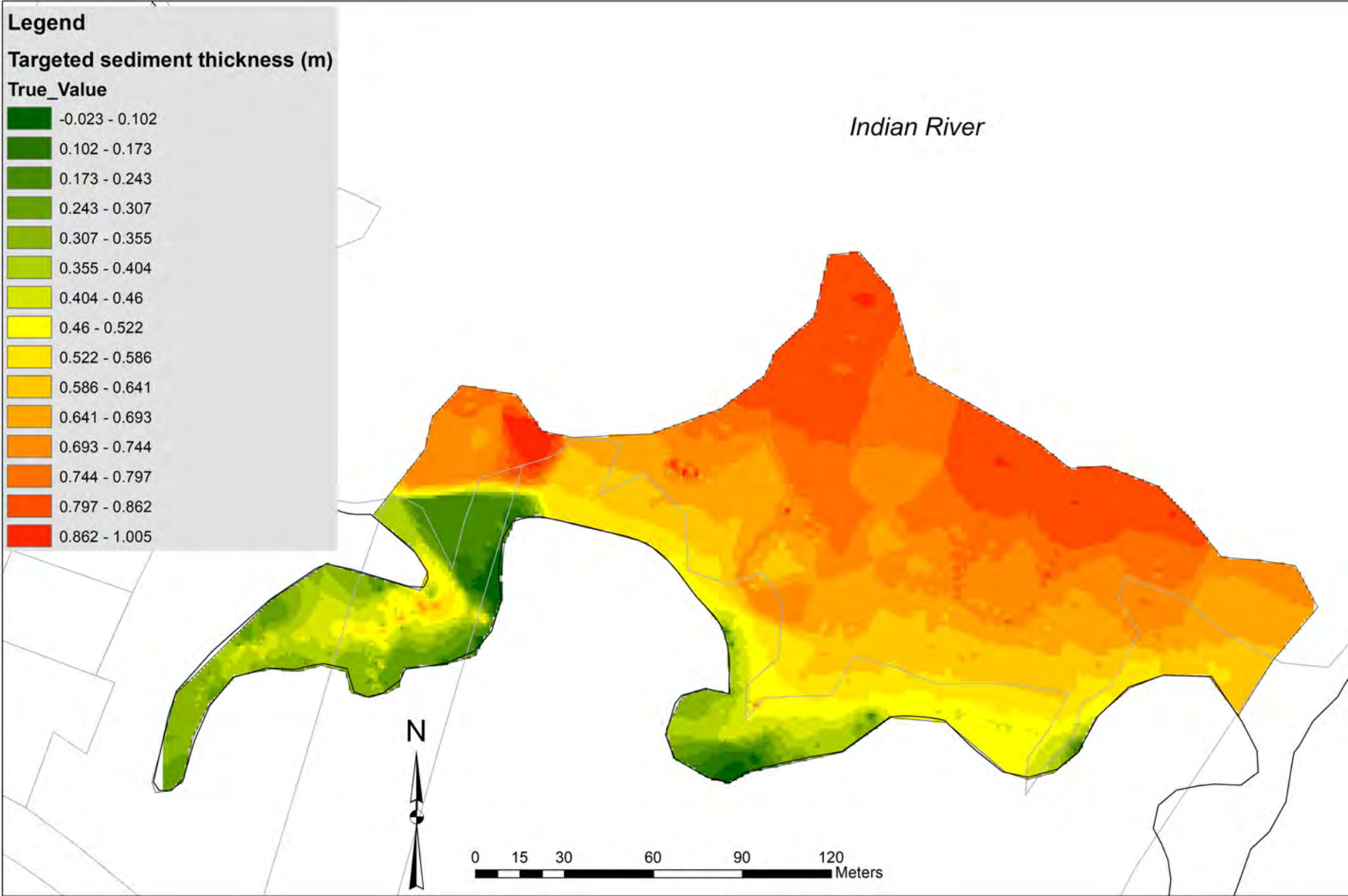
Block 21. Project area outlined in green with Indian River navigable channel in view for reference.



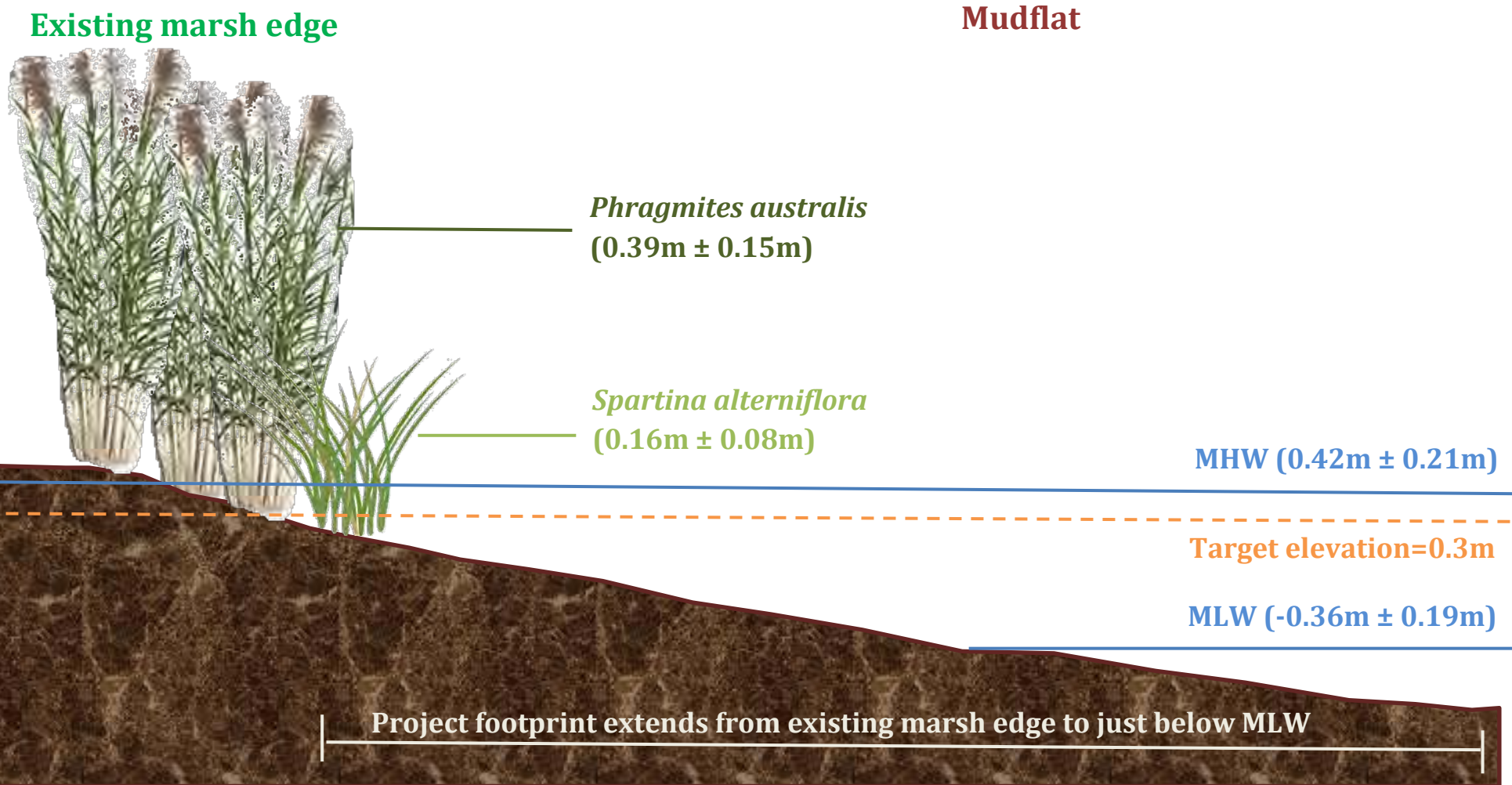
Block 19. Aerial view of project design to scale showing dredge channel, property boundaries and project footprint.



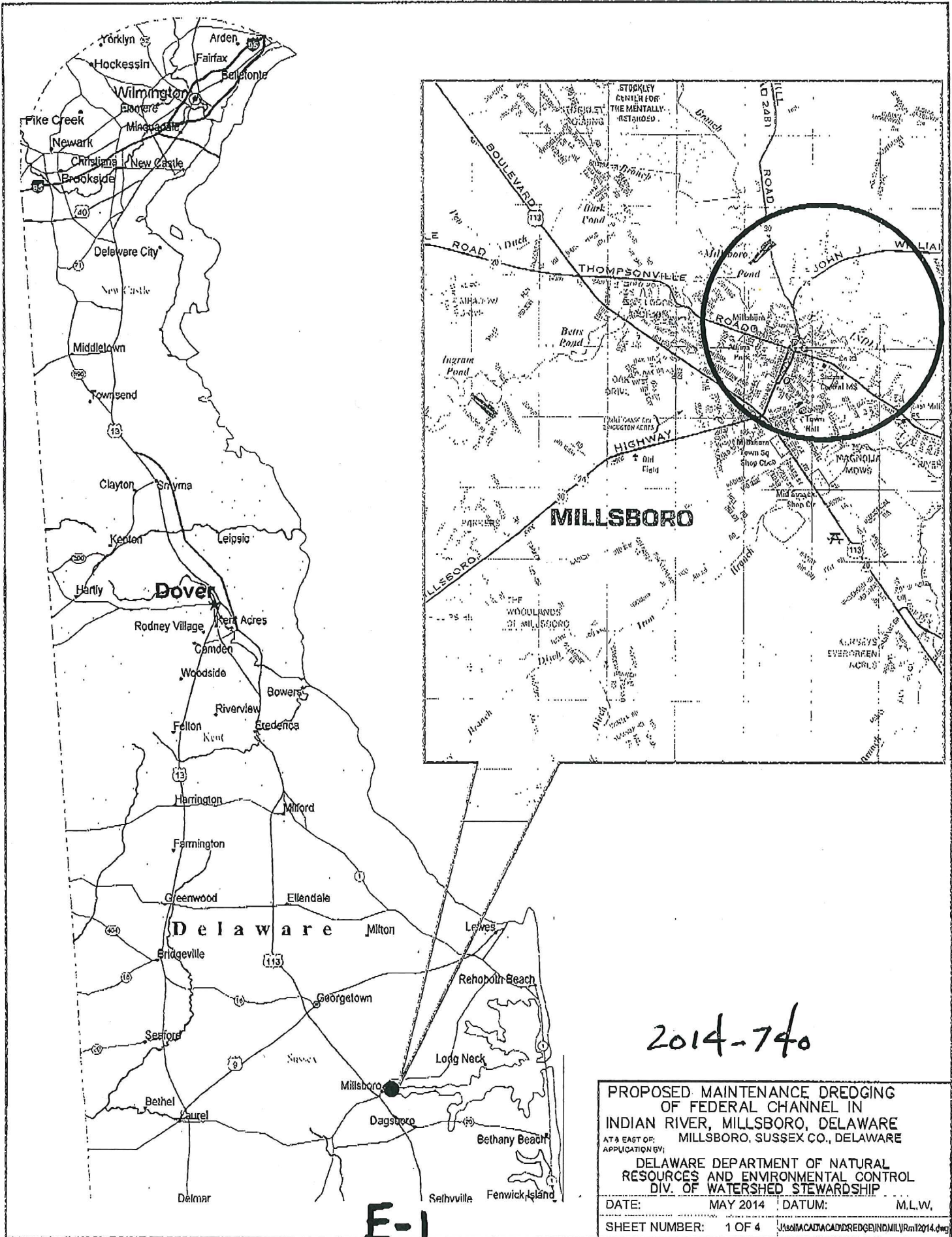
Block 19. Aerial view of project design to scale showing the desired thickness of sediment application to achieve the target elevation of 0.3m NAVD88.



Block 19. Cross section of project design showing MHW, MLW, average local elevations for Phragmites and Spartina alterniflora and the project target elevation of 0.3mNAVD88.



Tidal marsh restoration area cross-section in Millsboro, DE. All elevations listed are relative to NAVD88. Values in parentheses are mean elevations ± 1 standard deviation. Units are in meters. MHW and MLW estimates are based on 8 months of water level data collected onsite using a HOBO data logger. Mean plant elevation estimates are based on data collected onsite using a RTK GPS unit. Target elevation is the upper limit of *Spartina alterniflora* growth at the site.

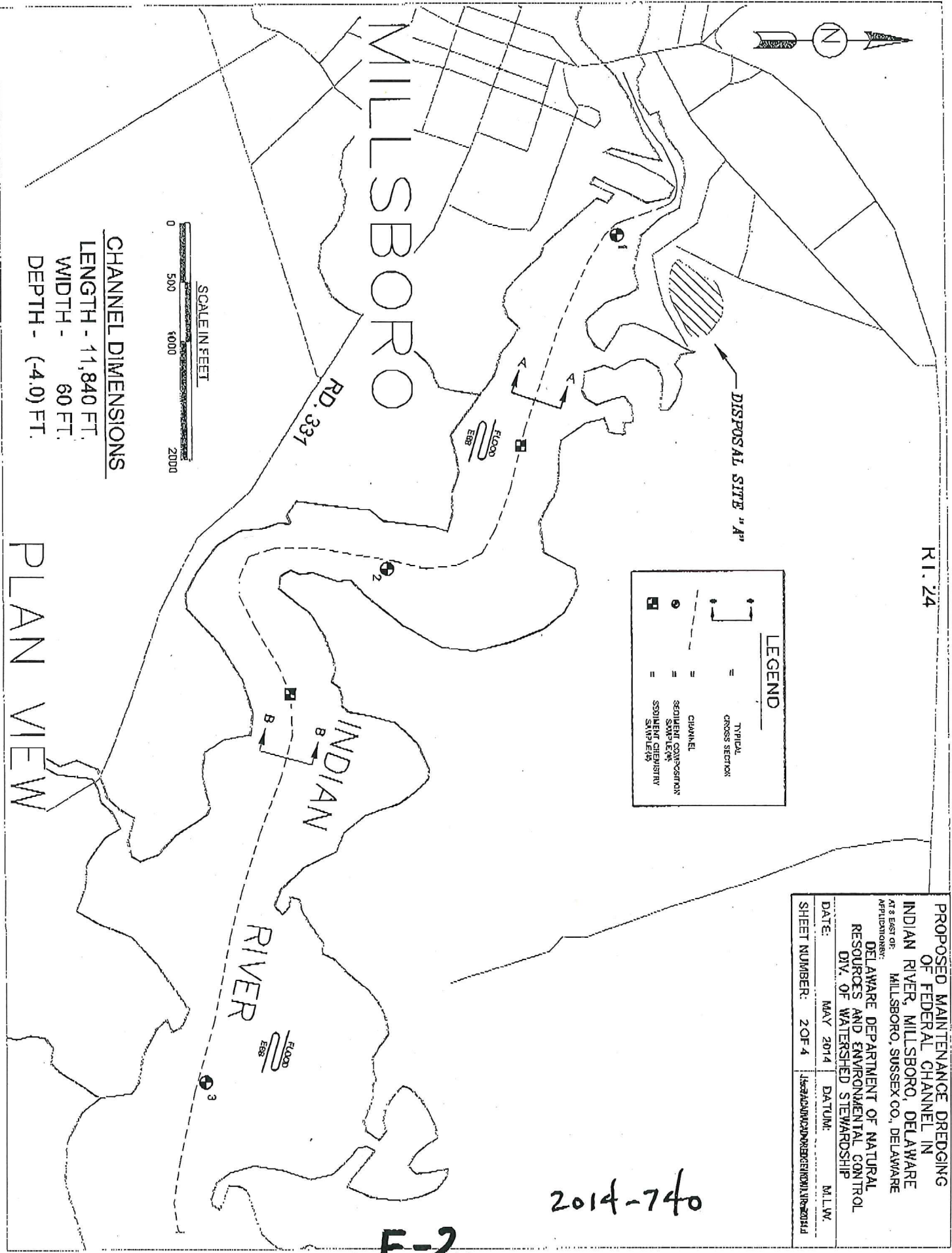


2014-740

PROPOSED MAINTENANCE DREDGING
 OF FEDERAL CHANNEL IN
 INDIAN RIVER, MILLSBORO, DELAWARE
 AT & EAST OF:
 APPLICATION BY:
 DELAWARE DEPARTMENT OF NATURAL
 RESOURCES AND ENVIRONMENTAL CONTROL
 DIV. OF WATERSHED STEWARDSHIP

DATE: MAY 2014 DATUM: M.L.W.
 SHEET NUMBER: 1 OF 4

E-1



RI. 24

LEGEND

- [Symbol: Dashed line with arrows] = TYPICAL CROSS SECTION
- [Symbol: Solid line] = CHANNEL
- [Symbol: Circle with dot] = SEDIMENT COMPOSITION SAMPLES
- [Symbol: Square with dot] = SEDIMENT CHEMISTRY SAMPLES

PROPOSED MAINTENANCE DREDGING
 OF FEDERAL CHANNEL IN
 INDIAN RIVER, MILLSBORO, DELAWARE
 AT & EAST OF: MILLSBORO, SUSSEX CO., DELAWARE
 APPLICANT: DELAWARE DEPARTMENT OF NATURAL
 RESOURCES AND ENVIRONMENTAL CONTROL
 DIV. OF WATERSHED STEWARDSHIP

DATE: MAY 2014 DATUM: M.L.W.

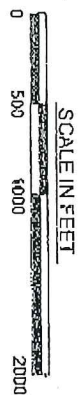
SHEET NUMBER: 2 OF 4

2014-740

E-2

CHANNEL DIMENSIONS

LENGTH - 11,840 FT.
 WIDTH - 80 FT.
 DEPTH - (-4.0) FT.



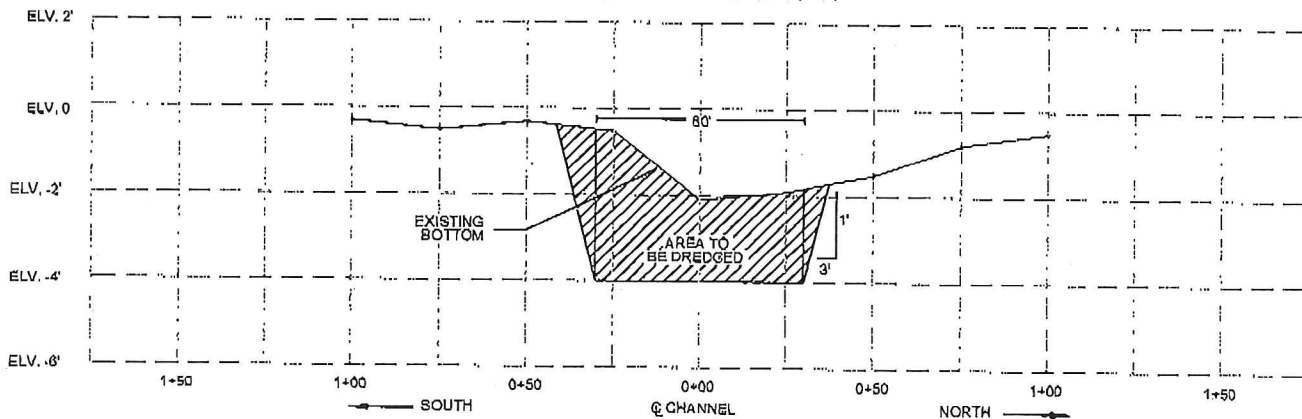
PLAN VIEW

TYPICAL CROSS-SECTIONS

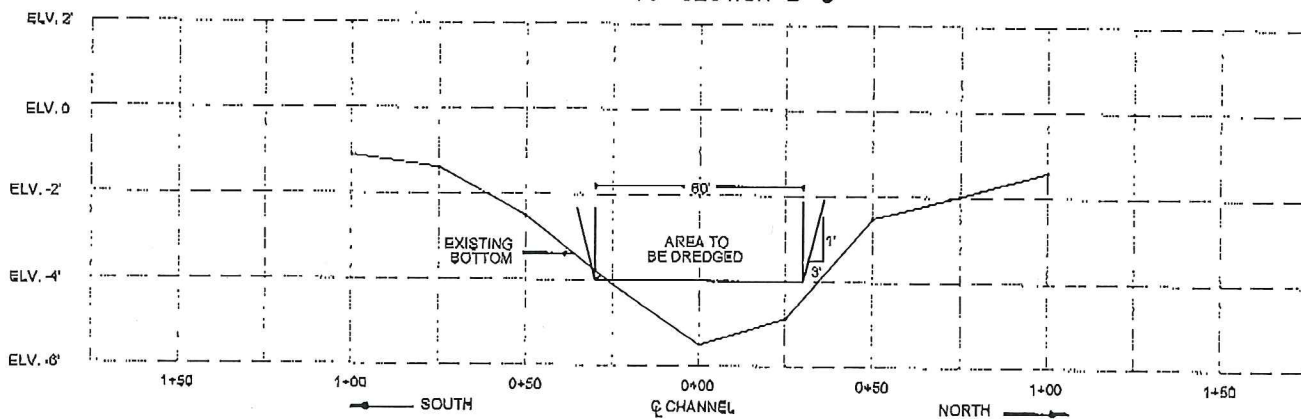
PROPOSED MAINTENANCE DREDGING
 OF FEDERAL CHANNEL IN
 INDIAN RIVER, MILLSBORO, DELAWARE
 AT & EAST OF: MILLSBORO, SUSSEX CO., DELAWARE
 APPLICATION BY:
 DELAWARE DEPARTMENT OF NATURAL
 RESOURCES AND ENVIRONMENTAL CONTROL
 DIV. OF WATERSHED STEWARDSHIP

DATE:	MAY 2014	DATUM:	M.L.W.
SHEET NUMBER:	3 OF 4	J:\30\ACAD\ACAD\REDGE\INDR\MLR\2014.dwg	

CROSS-SECTION A-A



CROSS-SECTION B-B



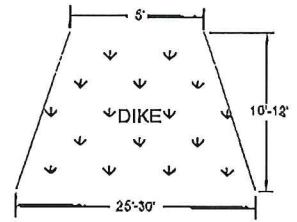
E-3

2014-740

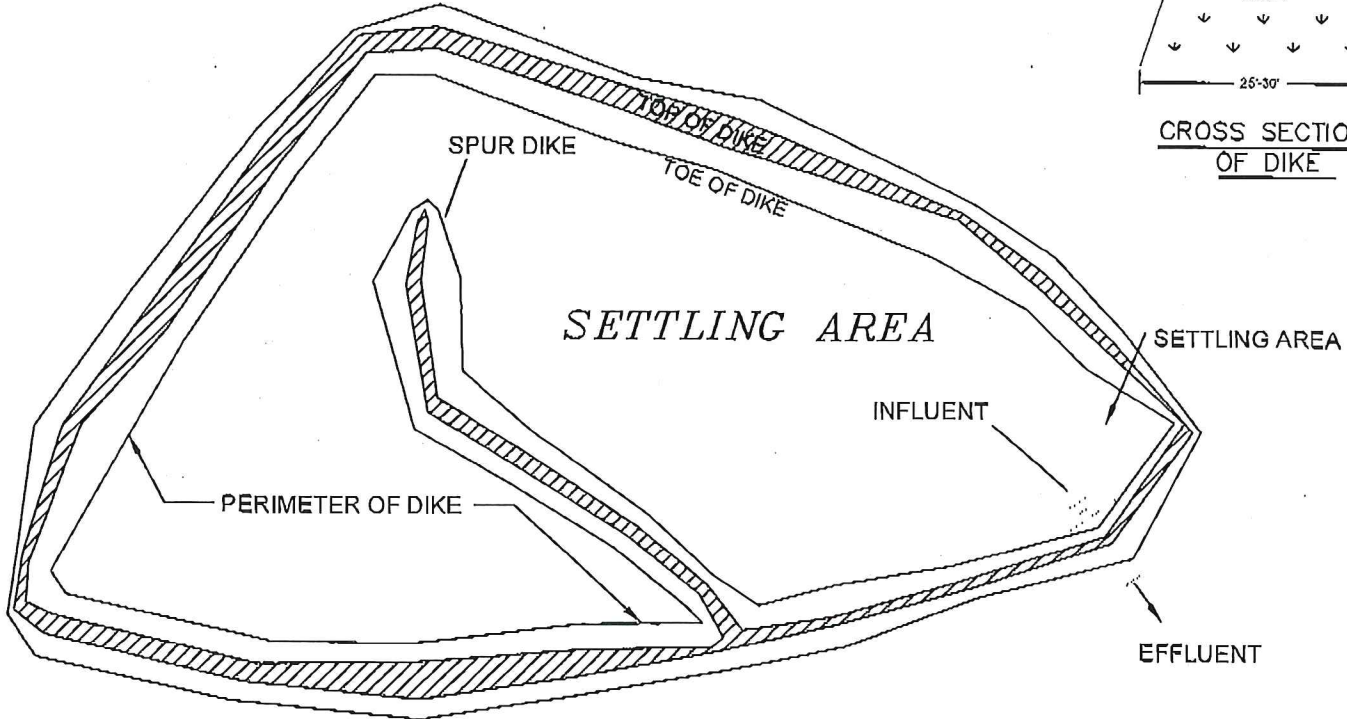
SITE "A" / UPLAND DISPOSAL SITE DESIGN

(NO SCALE)

PLAN VIEW
5.0 ± ACRE SITE



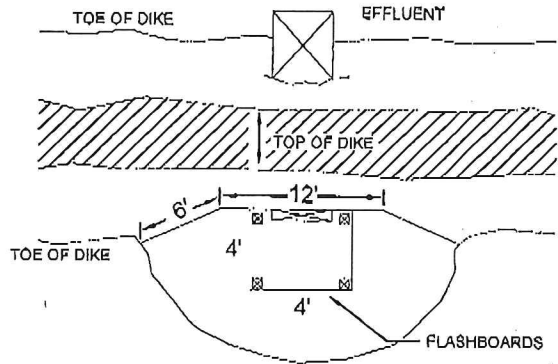
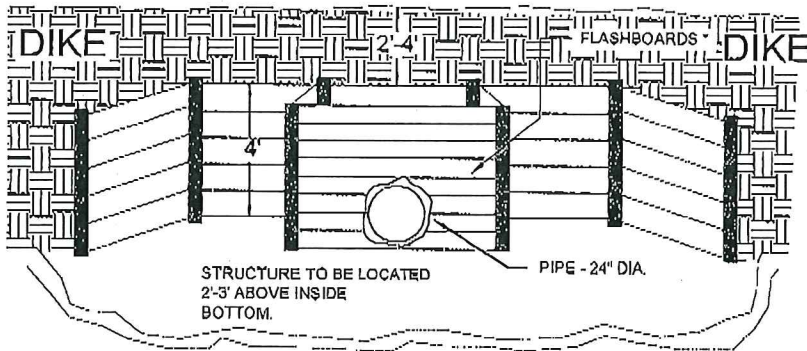
CROSS SECTION OF DIKE



SPILLWAY (WEIR) DESIGN

ELEVATION VIEW

PLAN VIEW



* FLASHBOARDS WILL BE ADDED AS WATER LEVEL RISES.

2014-740

E-4

PROPOSED MAINTENANCE DREDGING
OF FEDERAL CHANNEL IN
INDIAN RIVER, MILLSBORO, DELAWARE
MILLSBORO, SUSSEX CO., DELAWARE
AT A COST OF:
APPLICATION BY:
DELAWARE DEPARTMENT OF NATURAL
RESOURCES AND ENVIRONMENTAL CONTROL
DIV. OF WATERSHED STEWARDSHIP

DATE: MAY 2014

DATUM: M.L.W.