Parks & Recreation Committee Board of Representatives 3/20/2018

REVIEW; PROPOSED COVE ISLAND MARINA
AND CUMMINGS MARINA DREDGING

PRESENTED BY
ENGINEERING BUREAU

Dredging Start Date

 $\left(2\right)$

Dredging start date is dependent on 3 major components

- 1) Completing project design
- 2) Obtaining permits to undertake the work
- 3) Having funds to bid and award the works

Cove Island

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Cove Island – Work completed

- Developed preliminary dredge plan. Dredge -6' MLW (+1' over dredge = 29,296 cy.)
- Collected and tested dredge sediment for disposal and/or re-use
- Conducted engineering evaluation of floating dock and piles
- Prepared engineering cost estimates

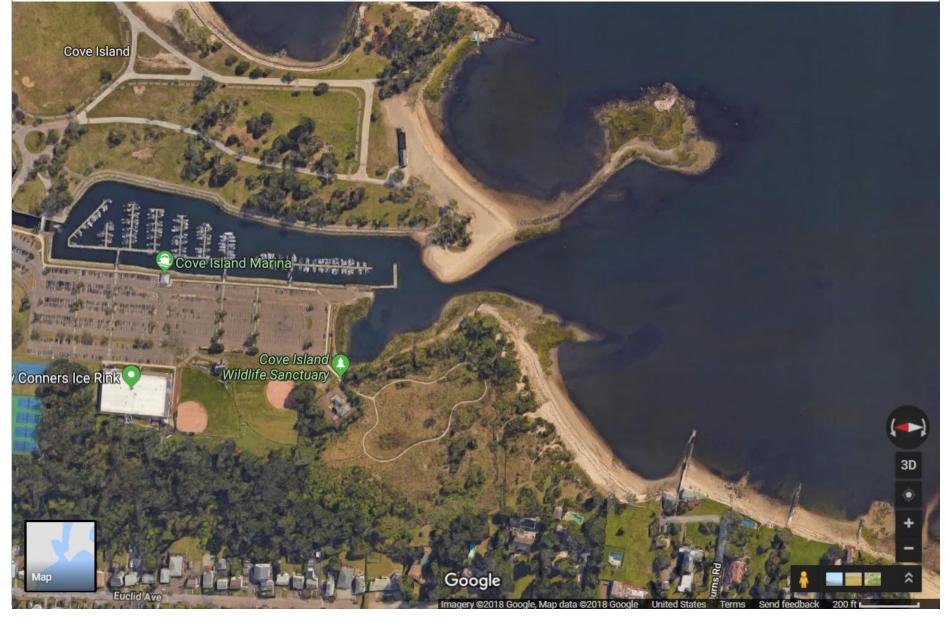
Cove Island – Work to be completed

- Obtain permits (need 6-12 months from 3/8/18) dictates disposal location which drives cost
- Obtain funds to undertake construction (dredging, pile driving and dock work)

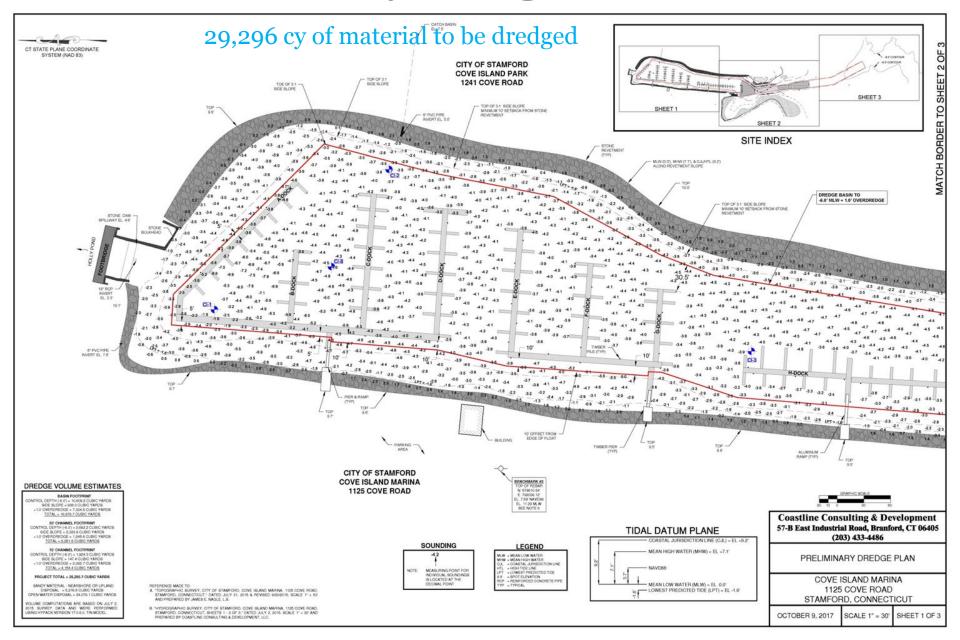
Cove Island – Work Constraint

- > In water work, only permitted between Oct & Feb
- > If funds are in place, earliest work can begin is Fall 2019

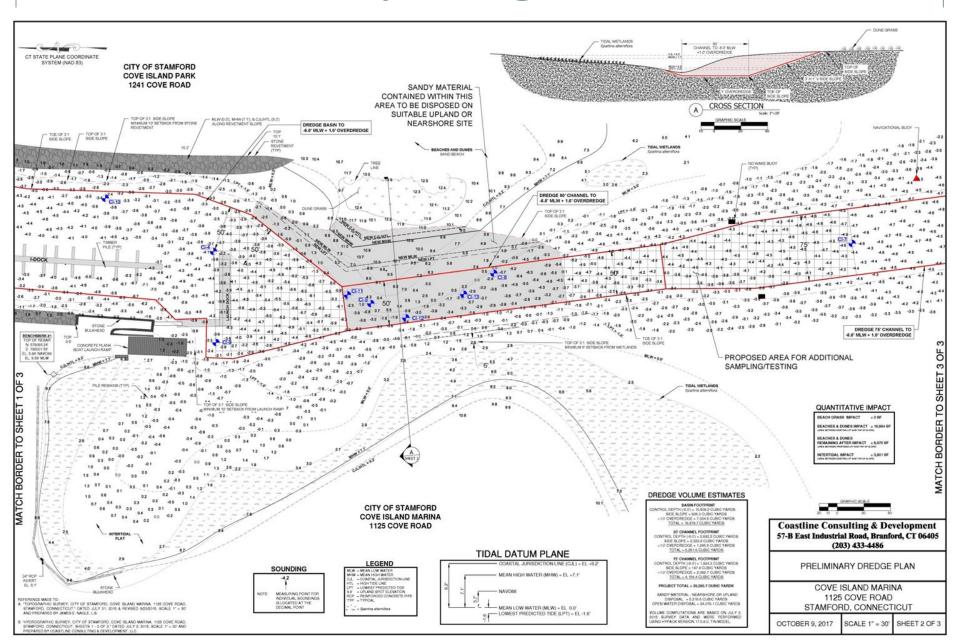
Aerial Map – Cove Island Marina



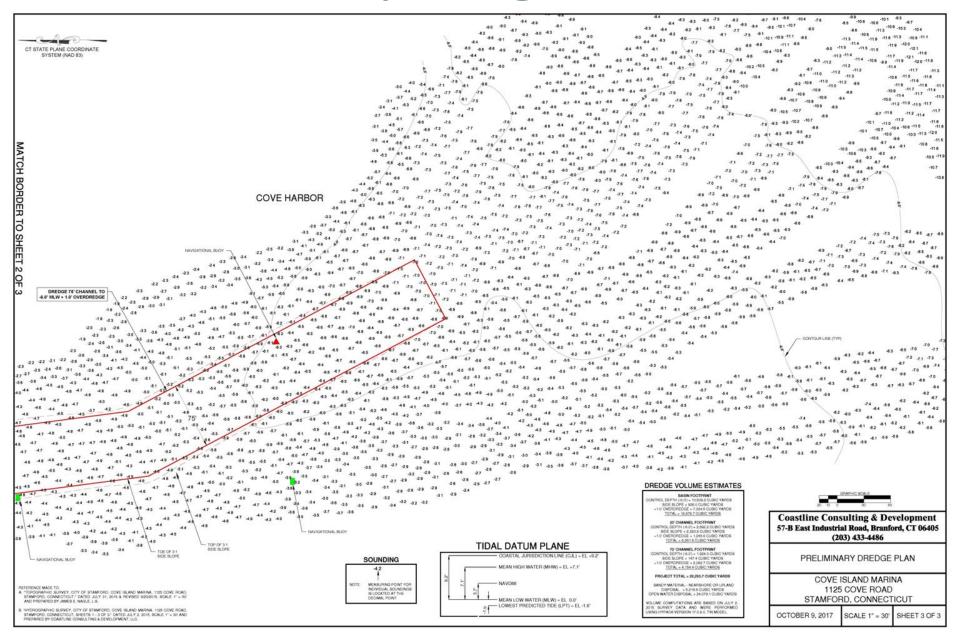
Preliminary Dredge Plan- Cove



Preliminary Dredge Plan - Cove



Preliminary Dredge Plan - Cove



Opinion Of Probable Construction Costs

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The opinion of probable *preliminary* construction costs (OPC) for the City of Stamford – Cove Island Marina dredging and pile replacement project was prepared from preliminary dredging plans prepared by Coastline Consulting & Development, LLC (Coastline), and the Floating Dock Anchor Pile Evaluation performed by Pennmax Consulting Engineers, PC.

Professional Services	
Professional Services (per contract)	\$25,760
Float Anchor Piles	
Timber, 795 piles (per Pile Evaluation, Table 2, E2)	\$1,430,000
-	
Steel, 88 piles (per Pile Evaluation, Table 2, E2)	\$1,840,000
Dredging & Disposal	
Dredging with Beneficial Reuse (5,217 CY sandy	\$1,130,000
material) & Disposal at Western Long Island Sound (24,079 CY silty material)	
(24,079 C1 sitty material)	
Dredging with Beneficial Reuse (5,217 CY sandy	\$1,500,000
material) & Disposal at Central Long Island Sound	42,4 4 4,4 4 4
(24,079 CY silty material)	
Dredging with Beneficial Reuse (5,217 CY sandy	\$5,320,000
material) & Upland Disposal/Treatment (24,079 CY silty material)	
oney material)	

Cummings Marina Basin

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Cummings – Work completed

- > Developed preliminary dredge plan for marina basin. Dredge -4' MLW (580 cy.), +1' over dredge (1,170 cy.)
- Developed preliminary dredge plan for federal channel (dredge by others)
- Collected and tested dredge sediment for disposal and/or re-use
- > Conducted engineering for new marina floating dock and piles
- > Prepared engineering cost estimates
- Obtained DEEP Permit, COP maintenance dredge on 11/22/16 (valid for 3 years w/ 1 yr. ext.)

Cummings-Work to be completed

- > Obtain ACOE permit
- > Obtain funds to undertake construction (dredging, pile driving and dock work). Est. dredging cost \$200,000 (does not include channel dredge or new marina)

Cummings – Work Constraint

- > In water work, only permitted between Oct & Feb
- > If funds are in place, earliest work can begin is Winter 18/19 (assuming DEEP and ACOE approve same dump site)

Aerial Map – Cummings Marina



Preliminary Dredge Plan - Cummings

