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ORIGINAL SHEET - ANS1 A

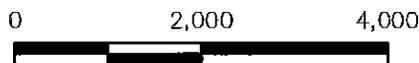
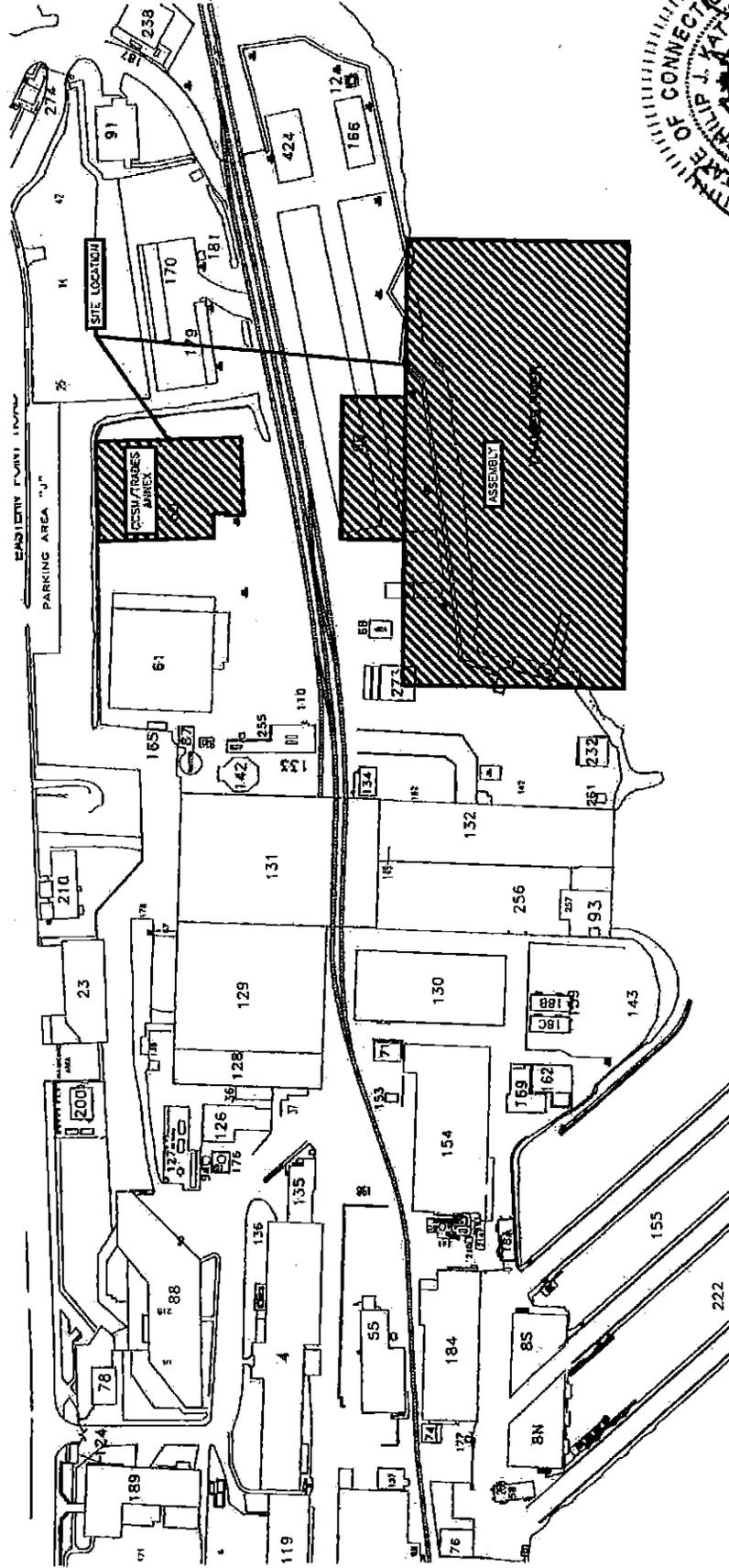


Figure 1. Site Location

Notes
 1. Coordinate System: NAD 1983 StatePlane Connecticut FIPS 6600 Feet
 2. USGS Logo provided by ESRI Web mapping service.

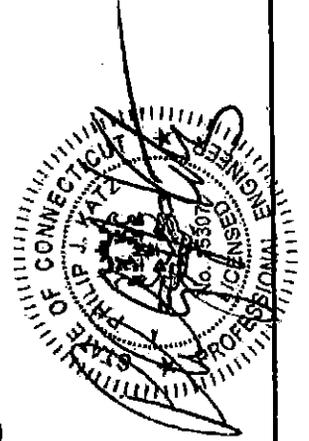
PROPOSED ASSEMBLY/CCSM/TRADES BUILDINGS GENERAL DYNAMICS CORPORATION ELECTRIC BOAT DIVISION

75 EASTERN POINT ROAD
GROTON, CT
April 25, 2018

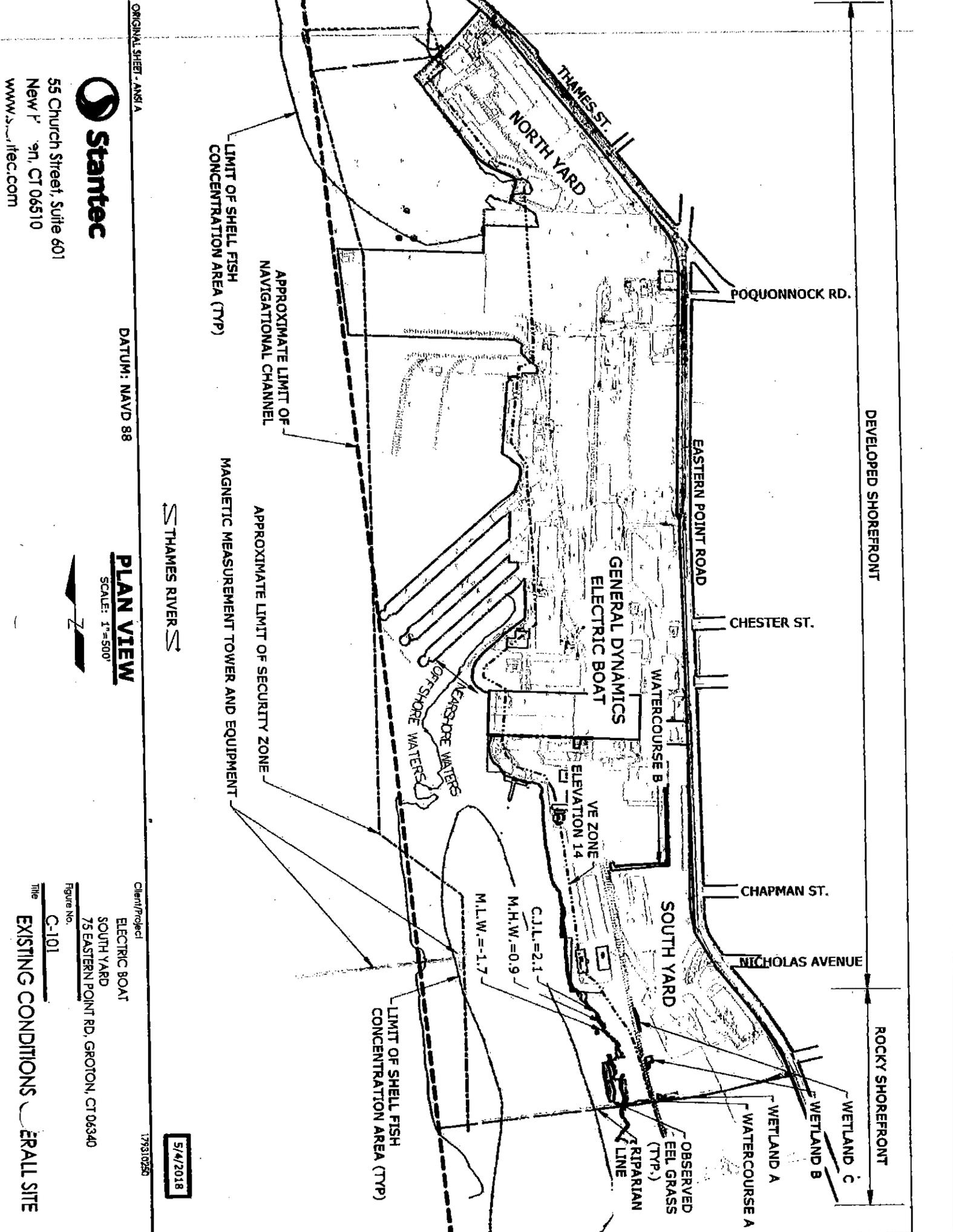


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- C404
- C405
- C406



PREPARED BY:
 **Stantec**
 STANTEC CONSULTING SERVICES INC.
 55 CHURCH STREET, SUITE 601
 NEW HAVEN, CT



ORIGINAL SHEET - ANSI A

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DATUM: NAVD 88

PLAN VIEW

SCALE: 1"=500'



Client/Project
 ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

5/4/2018

Figure No.
 C-101

Title
 EXISTING CONDITIONS
 ERALL SITE



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PLAN VIEW

SCALE: 1"=200'



Client/Project
 17910255

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-102

EXISTING CONDITIONS SOUTH YARD

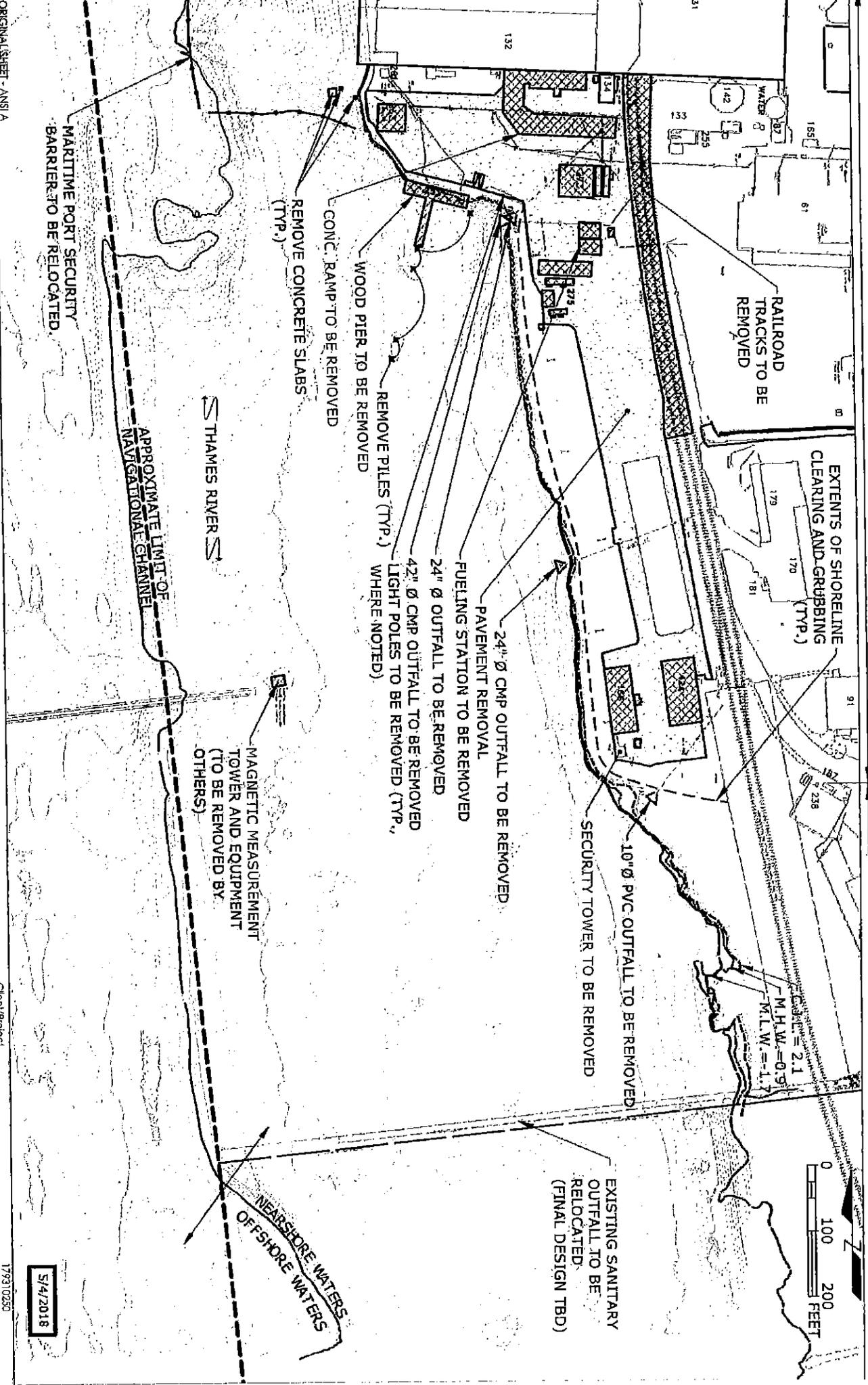
5/4/2018

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LEGEND:
STRUCTURES TO BE REMOVED
LIMIT OF DREDGING
PAVEMENT TO BE REMOVED

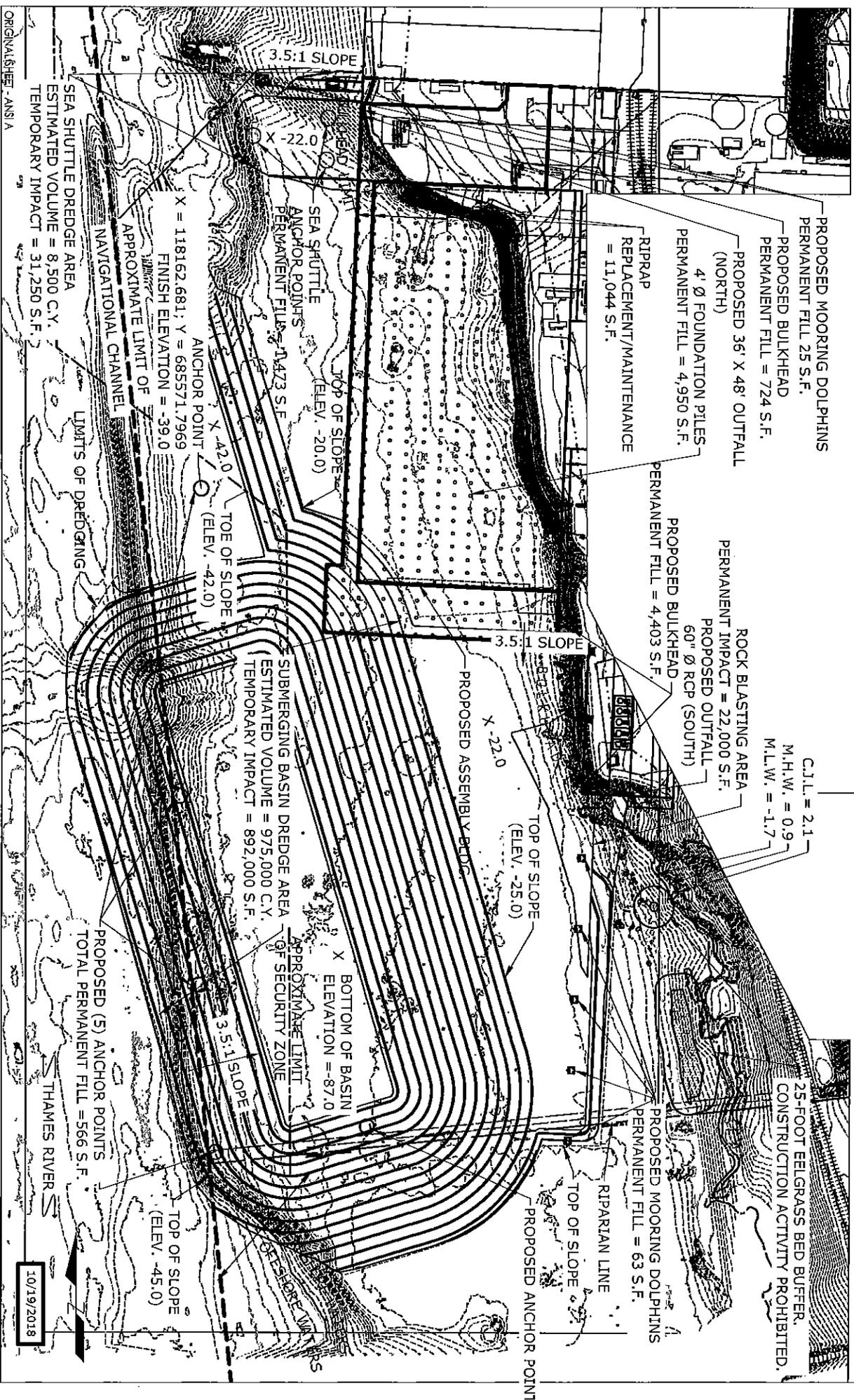


Client/project
ELECTRIC BOAT
SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340
Figure No.
C-103
Title
DEMOLITION PLAN



DEVELOPED SHOREFRONT

ROCKY SHOREFRONT



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PLAN VIEW

SCALE: 1"=200'



- NOTES:
1. PROPOSED BUILDING REMOVED FOR CLARITY.
 2. PROPOSED DREDGING DEPTHS ARE CONTROLLING DEPTH (IN NAVD 88) AND DO NOT DEPICT A 2 FT ALLOWABLE OVERDREDGE DURING CONSTRUCTION.

Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

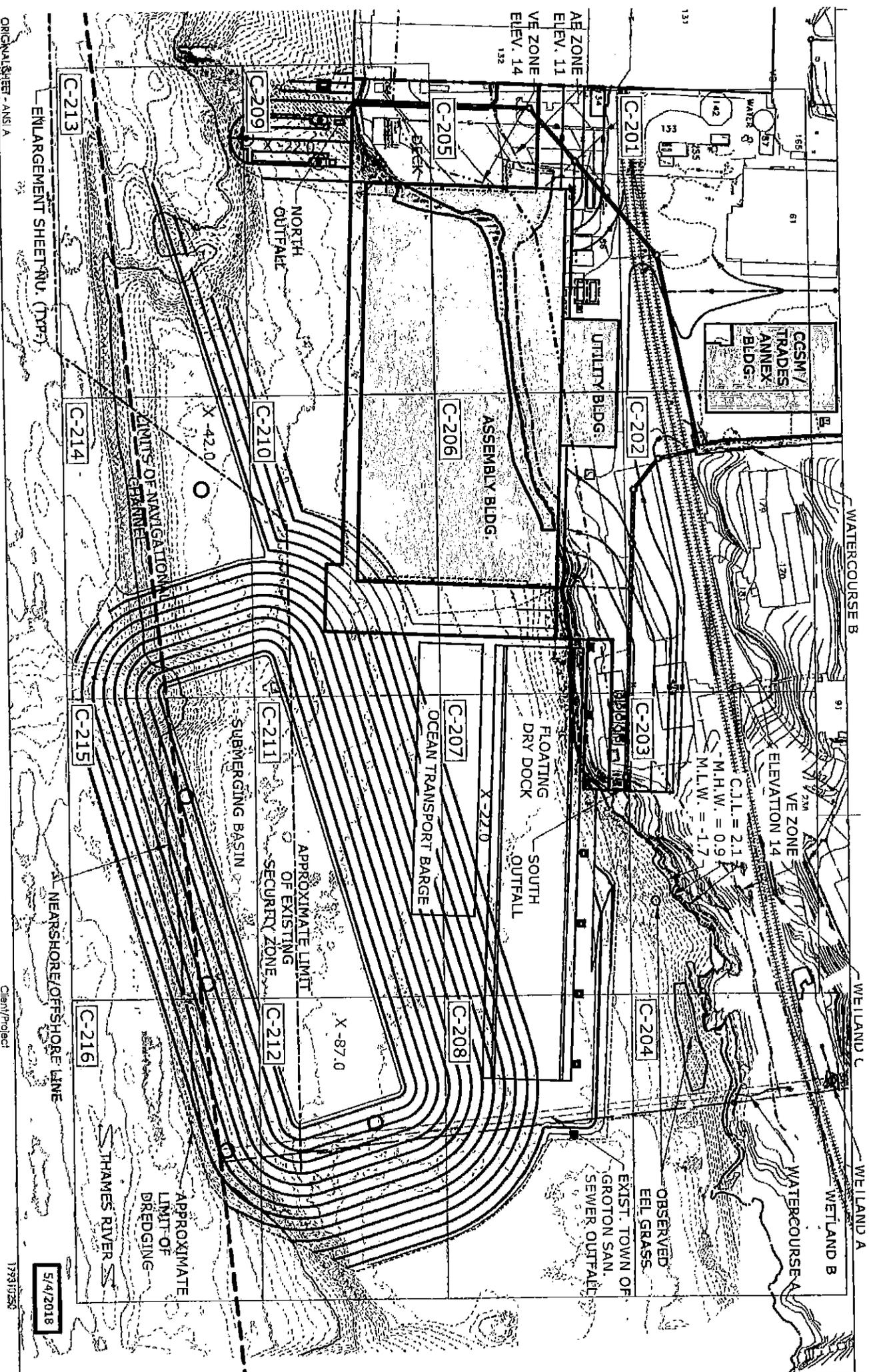
Figure No.

C-104

RIVER IMPACT SUMMARY

1/7/93/10/25/0

10/19/2018



ORIGINAL SHEET - ANSI A

ENLARGEMENT SHEET NO. (TYPE)

NEARSHORE/OFFSHORE LINE

THAMES RIVER



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NOTE: ONLY 5' CONTOURS SHOWN
 IN DREDGING AREAS FOR CLARITY

PLAN VIEW

SCALE: 1"=200'



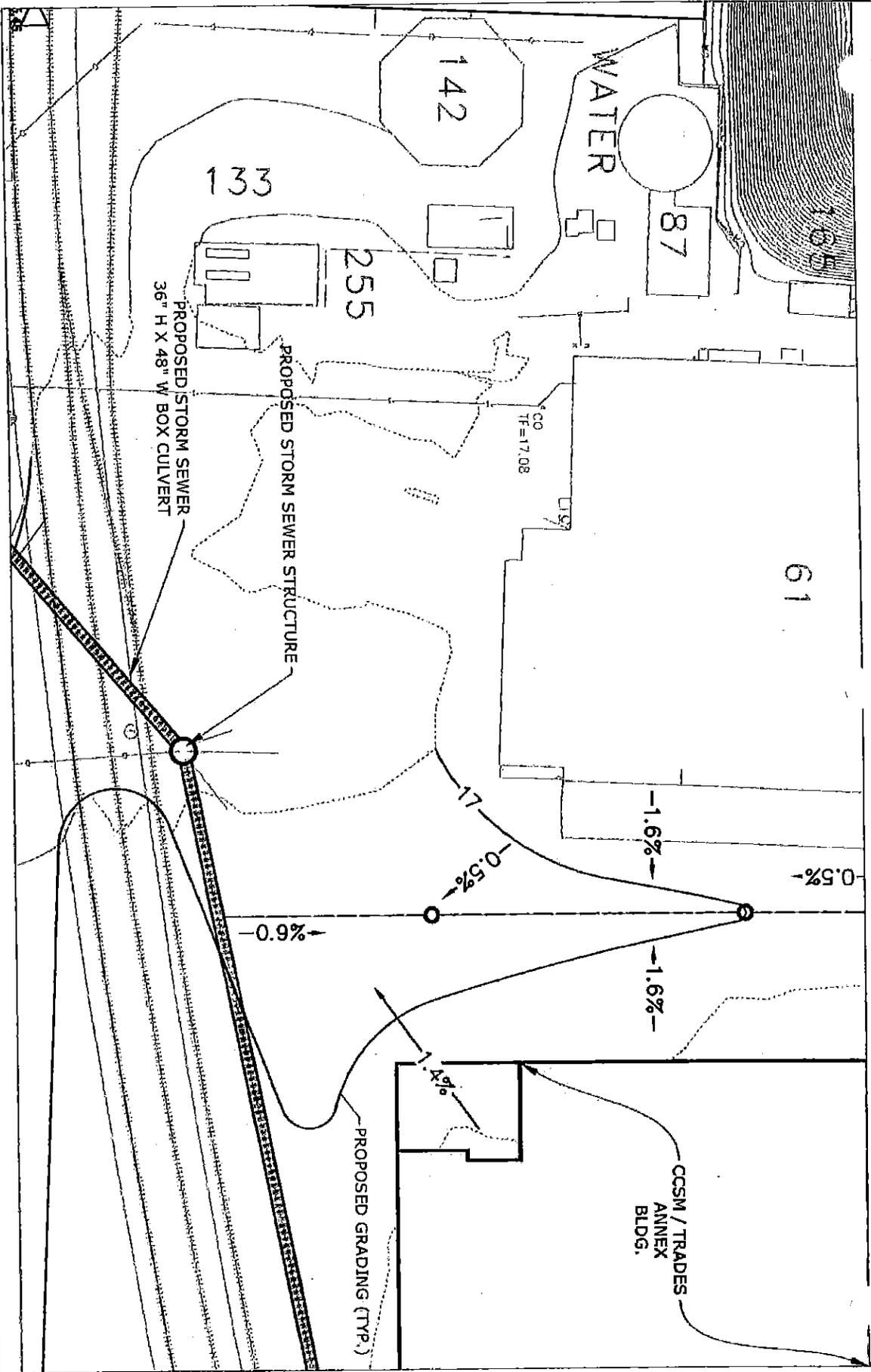
Client/Project
 ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD. GROTON, CT 06340

5/4/2018

179310286

Title
 C-200
 PROPOSED OVERALL II X PLAN

DEVELOPED SHOREFRONT



C-205

C-202

5/4/2018

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ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-201

Title

PROPOSED PLAN

179310290

DEVELOPED SHOREFRONT

CCSM /
TRADES
ANNEX
BLDG.

WATERCOURSE B

PROPOSED
RETAINING WALL

REMOVE SEDIMENT AND DEBRIS IN ENTIRE CHANNEL
AREA (EAST AND WEST OF BUILDING) TO ROCK CUT ELEVATION

PROPOSED HEADWALL

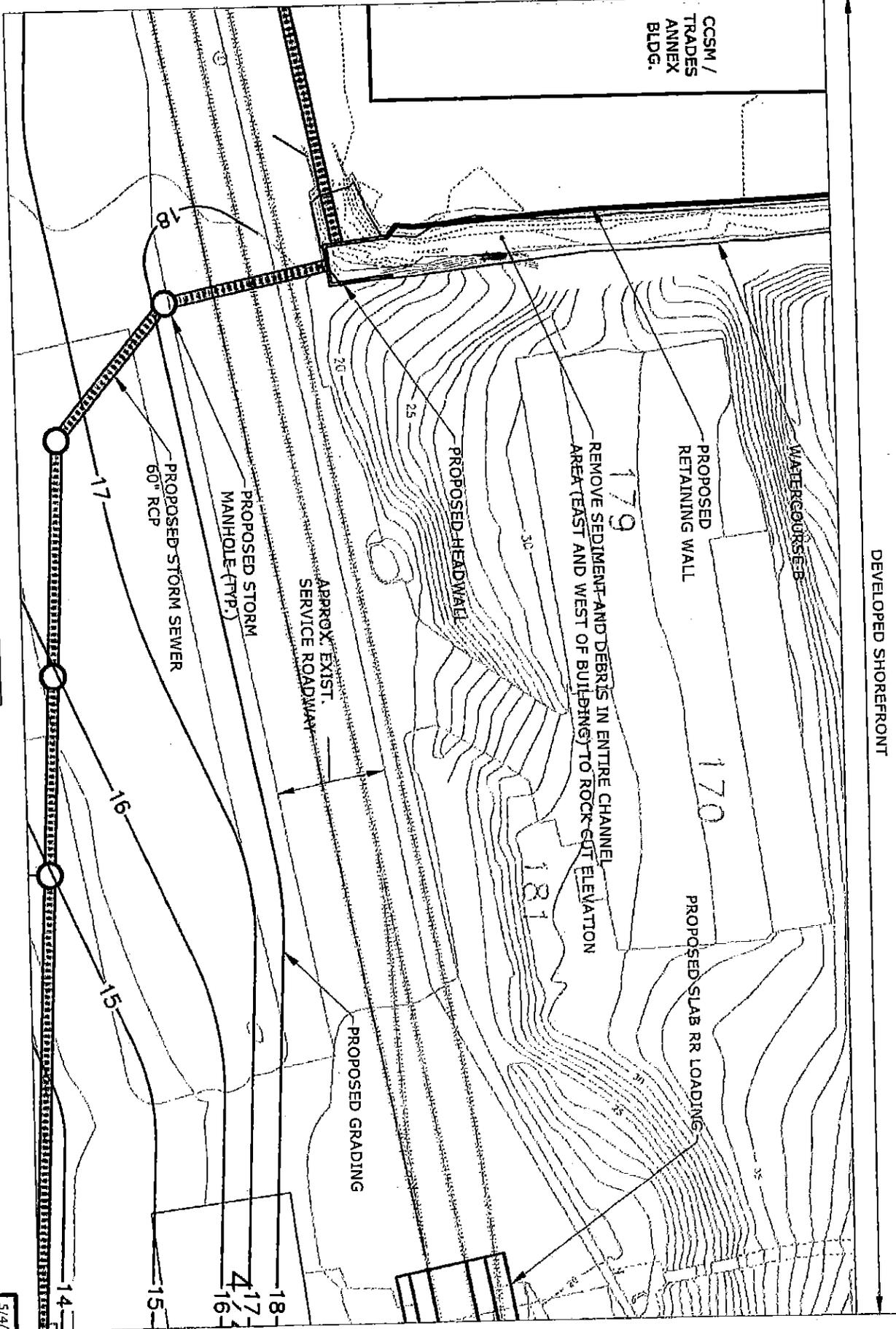
APPROX. EXIST.
SERVICE ROADWAY

PROPOSED STORM
MANHOLE (FYP)

PROPOSED STORM SEWER
60" RCP

PROPOSED GRADING

PROPOSED SLAB RR LOADING



C-205

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ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

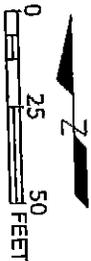
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C-202

PROPOSED PLAN

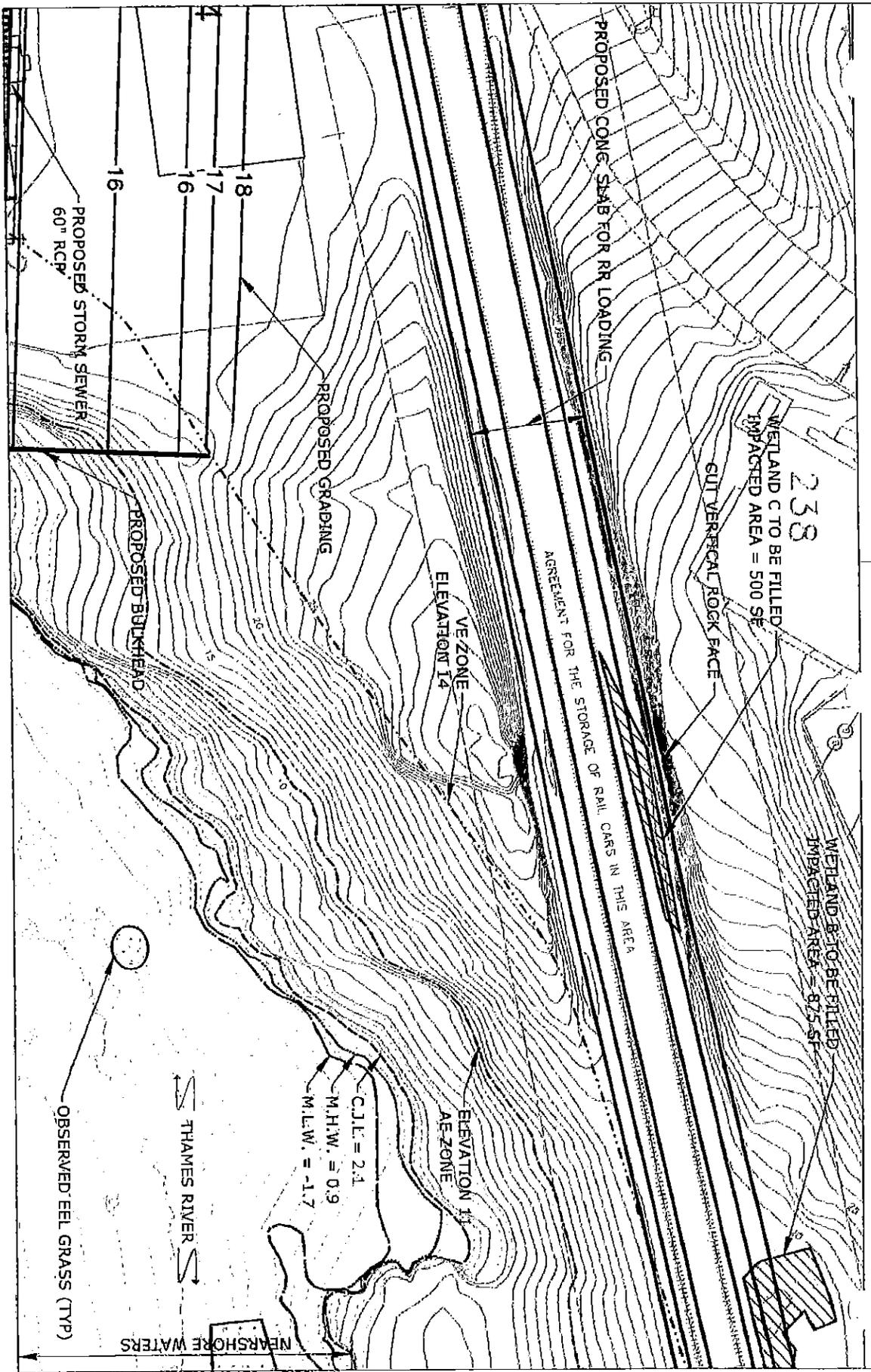
179310250

C-203



DEVELOPED SHOREFRONT

ROCKY SHOREFRONT



C-202

C-207

C-204

ORIGINAL SHEET - ANSI A

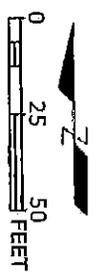


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WETLAND IMPACT AREA

LEGEND



Client/Project

ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

179310250

5/4/2018

Figure No.

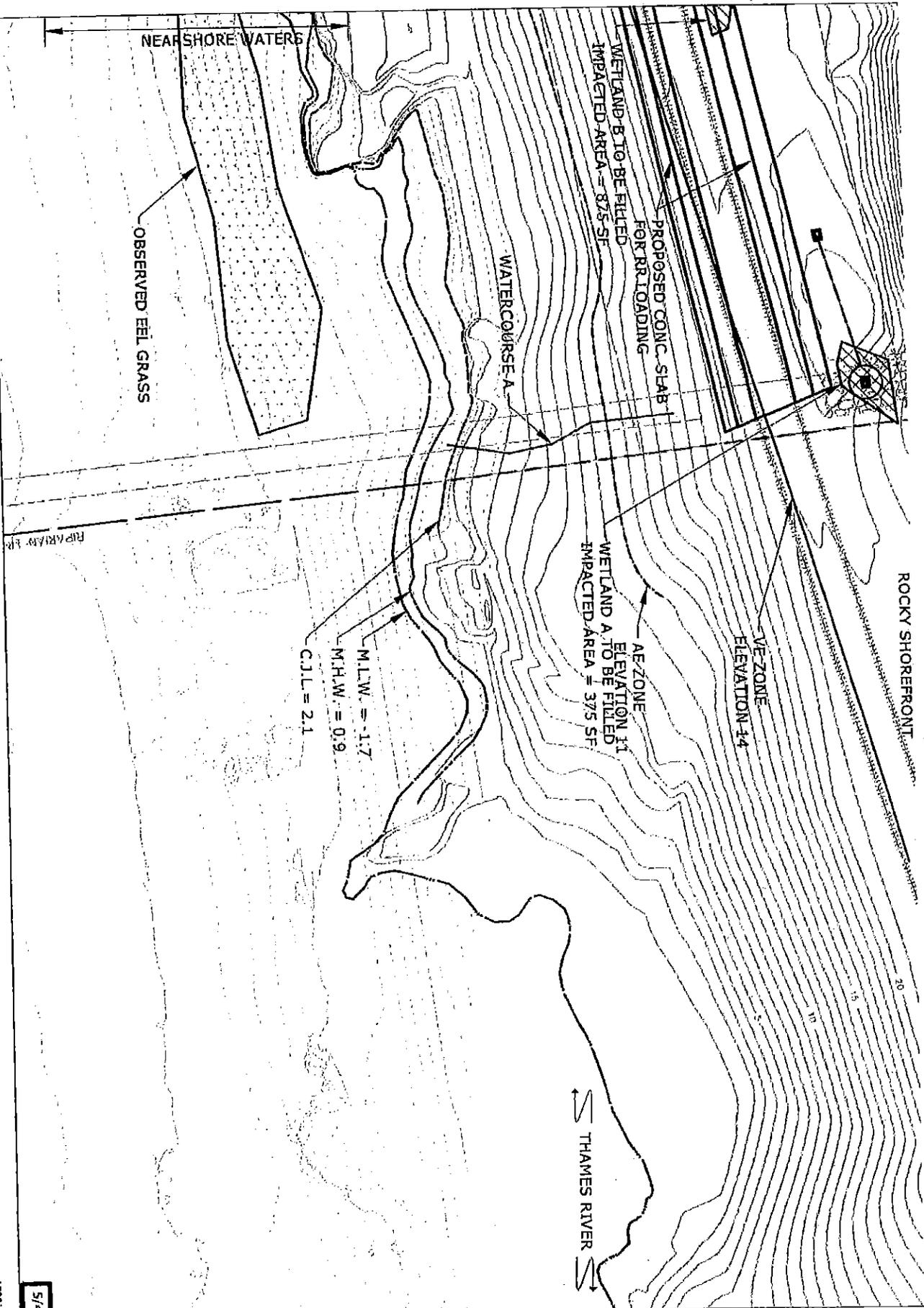
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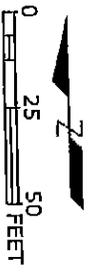
C-203

ORIGINAL SHEET - ANSIA



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LEGEND
 WETLAND IMPACT AREA



C-208

5/4/2018

Client/Project
 ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

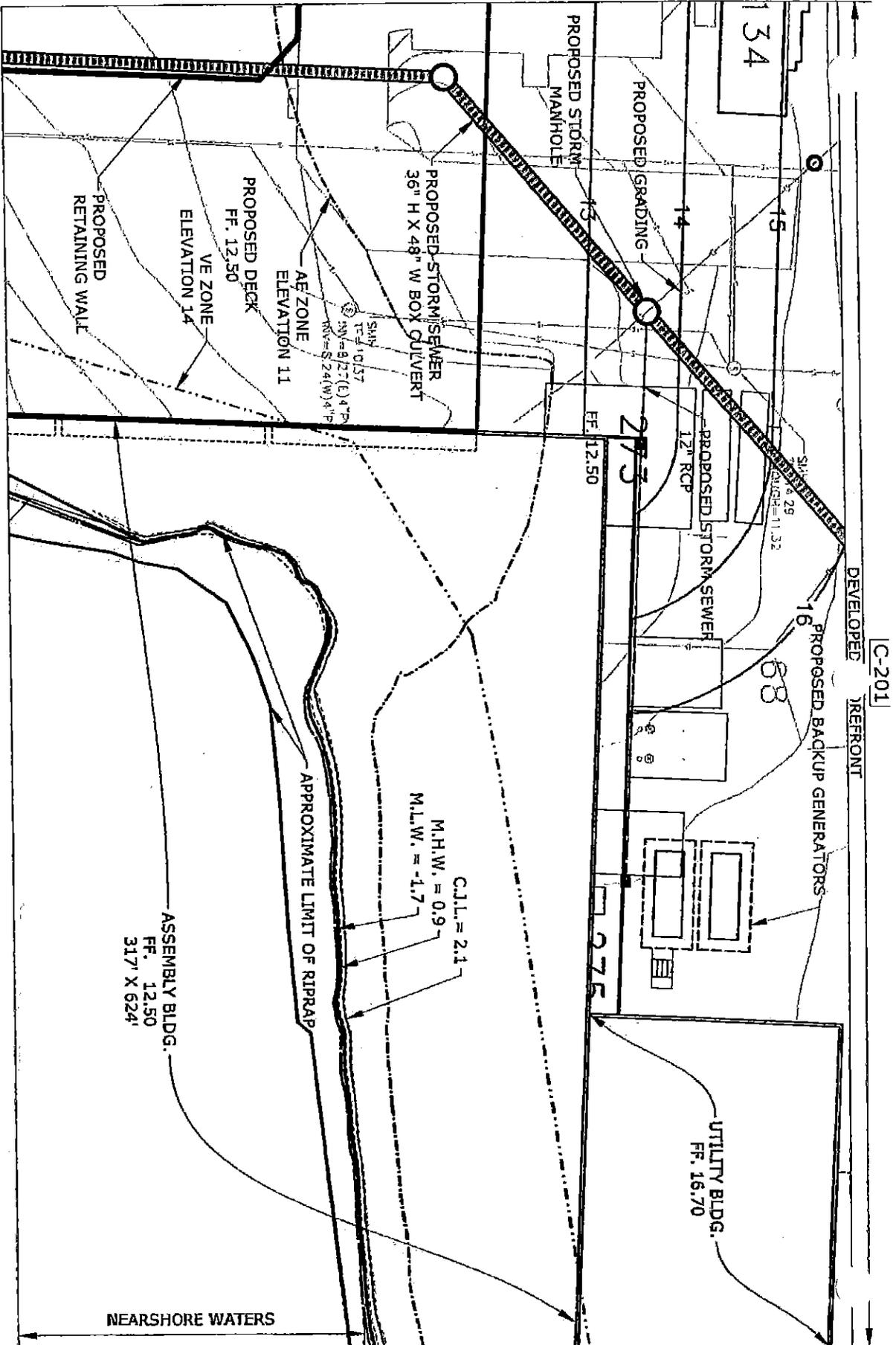
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 C-204

Title
 PROPOSED PLAN

179310250



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C-209

5/4/2018

C-206



Client/Project

ELECTRIC BOAT

SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-205

Title

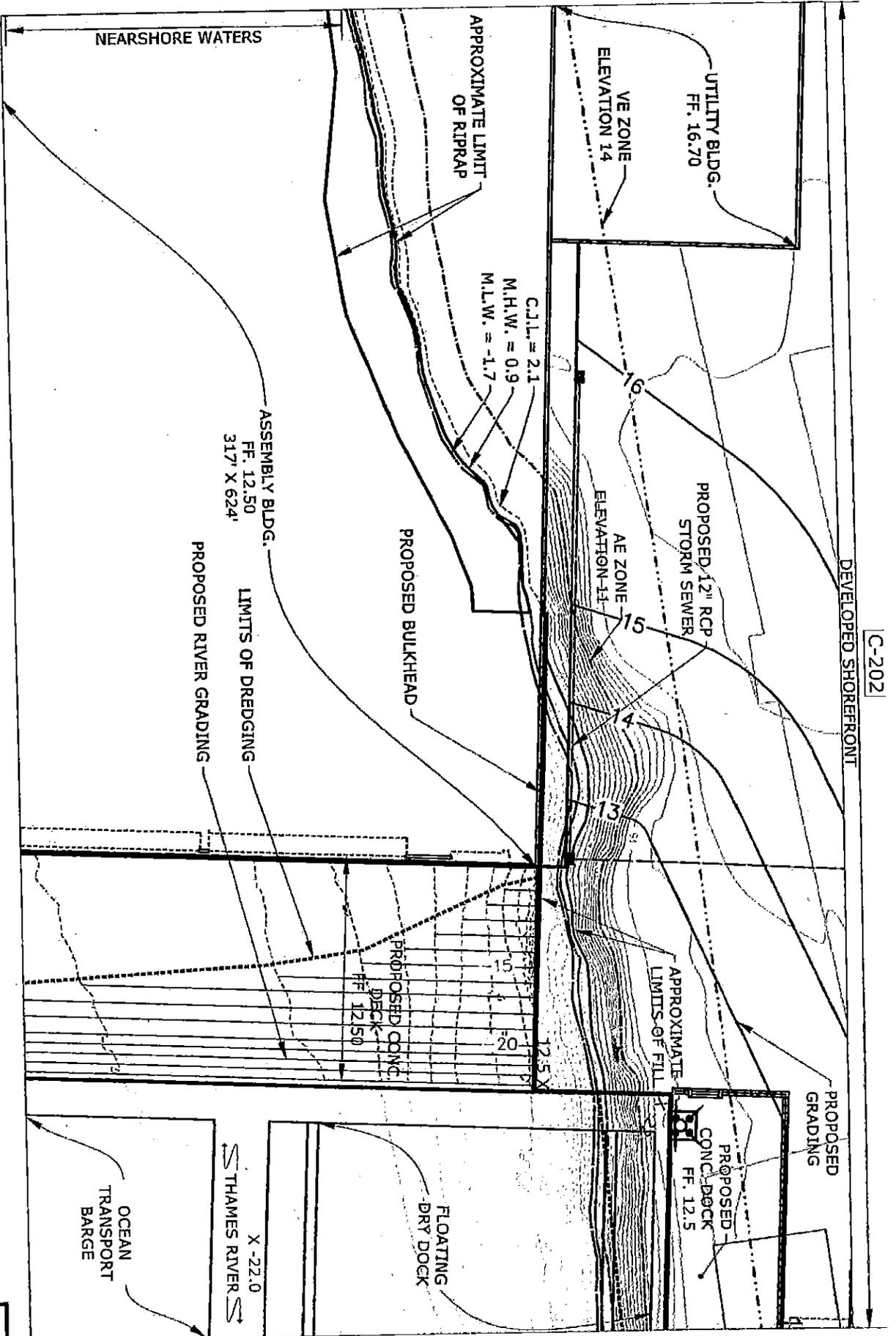
PROPOSED PLAN

179310250

C-205

C-202

DEVELOPED SHOREFRONT



C-210

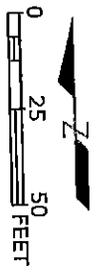
C-207

5/4/2018

ORIGINAL SHEET - ANSI A



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Client/Project
 ELECTRIC BOAT

SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-206

Title
PROPOSED PLAN

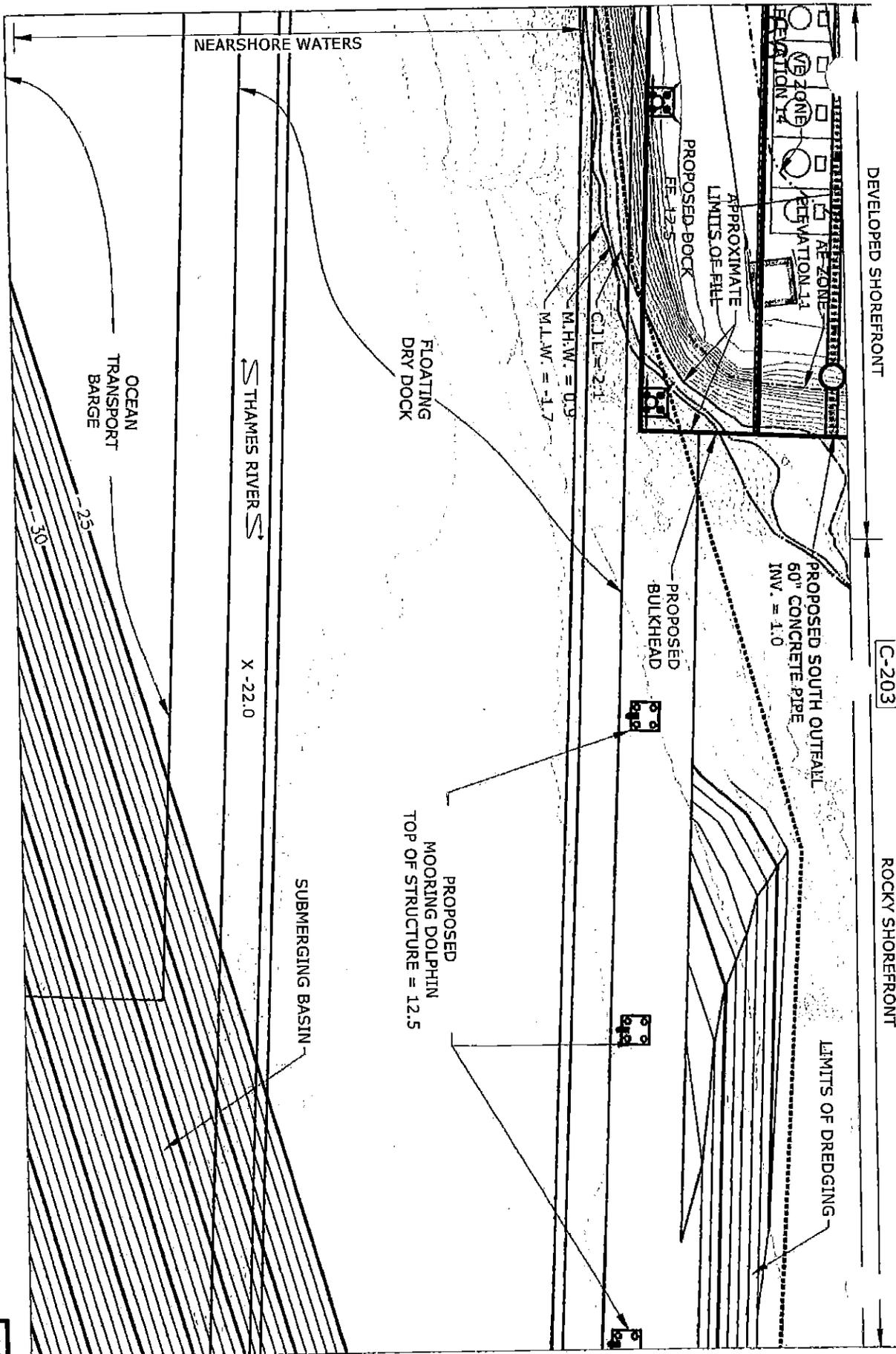
1793.0250

C-206

DEVELOPED SHOREFRONT

C-203

ROCKY SHOREFRONT



C-211

5/4/2018

ORIGINAL SHEET - ANSI A



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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-207

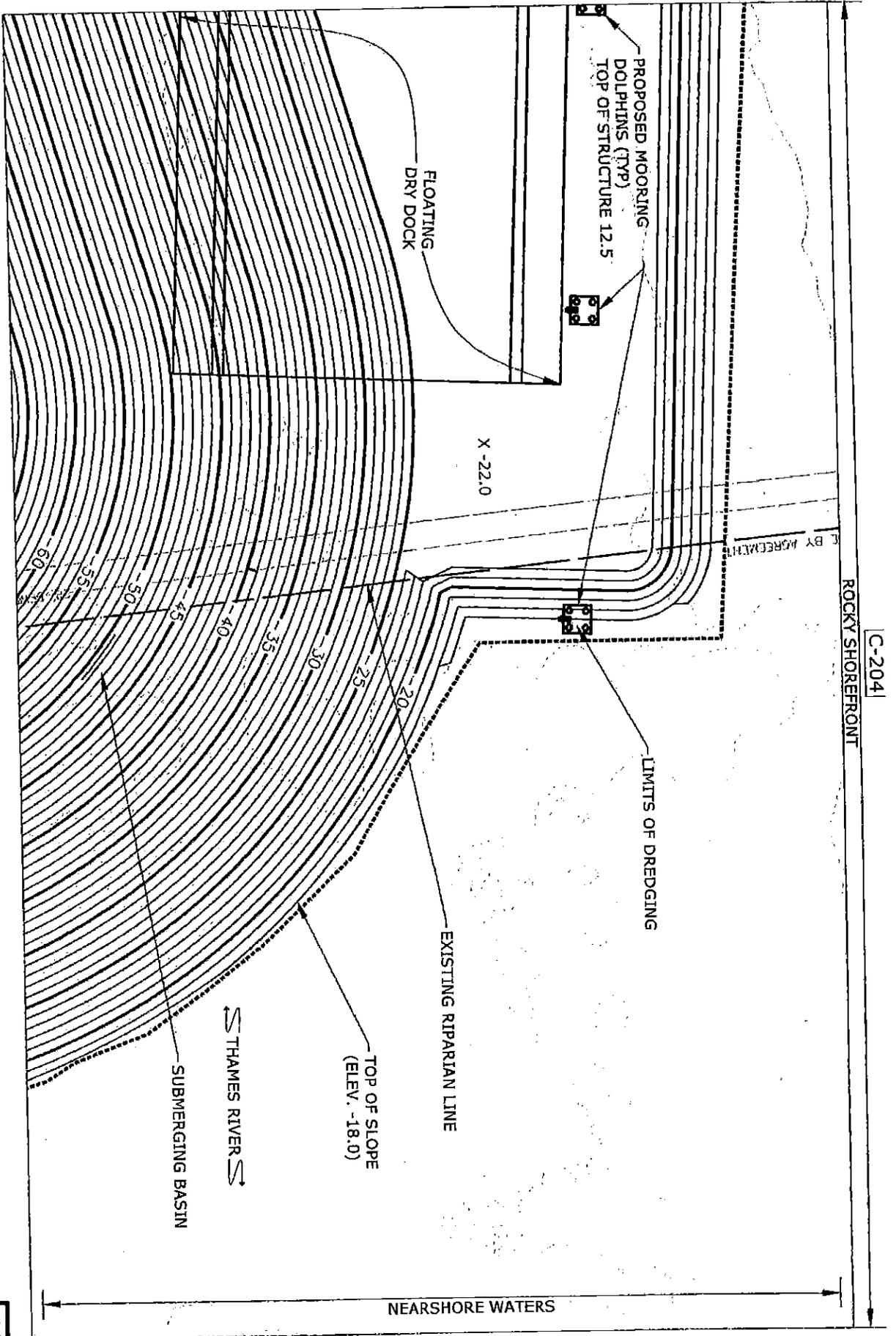
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PROPOSED PLAN

1/79310250

C-208

C-207



C-212

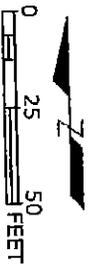
C-204
ROCKY SHOREFRONT

ORIGINAL SHEET - ANSI A



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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-208

Title

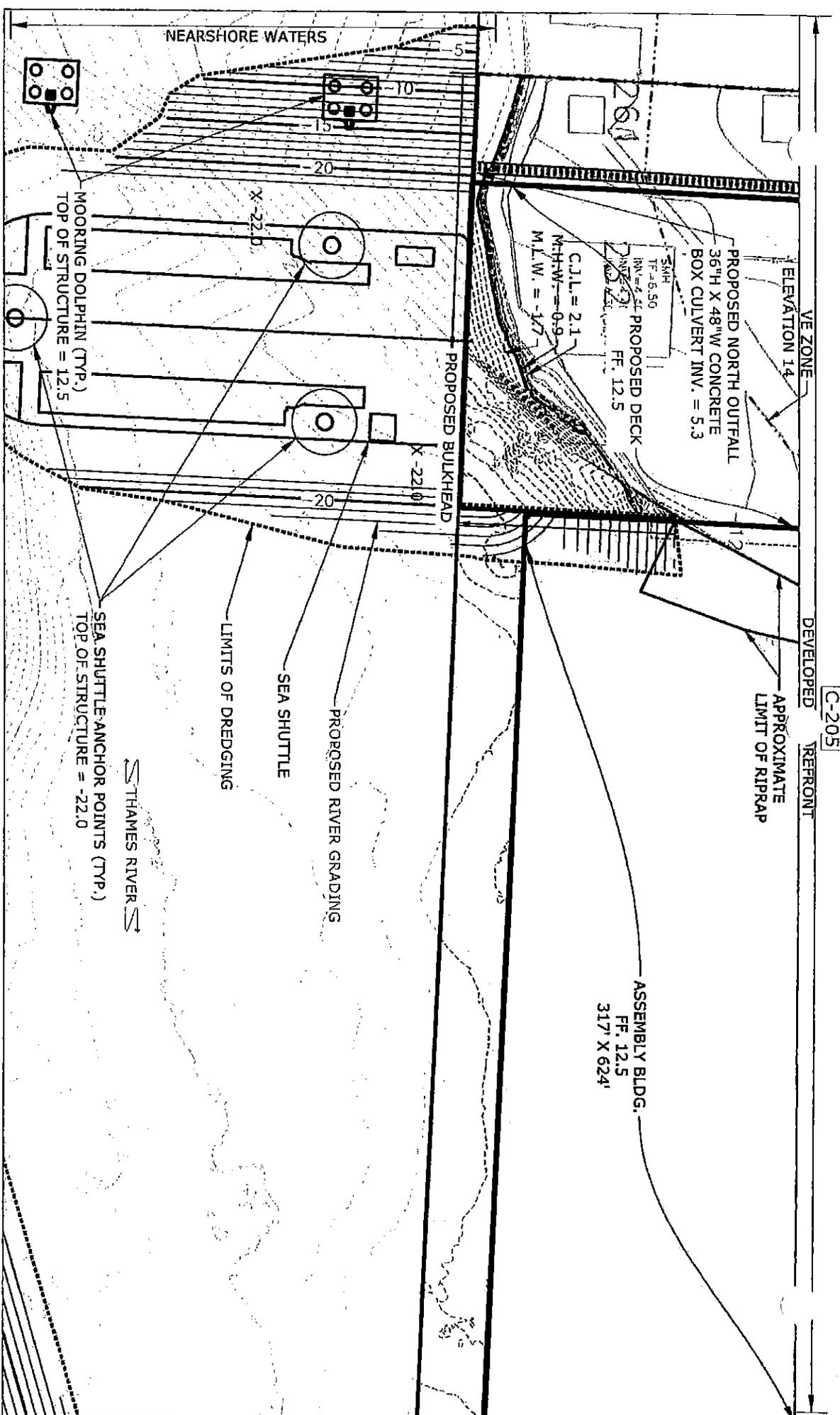
PROPOSED PLAN

179310260

5/4/2018



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C-205

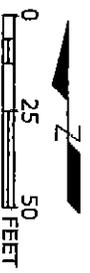
DEVELOPED TREFRONT

APPROXIMATE LIMIT OF RIPRAP

C-213

5/4/2018

C-210



Client/Project:

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

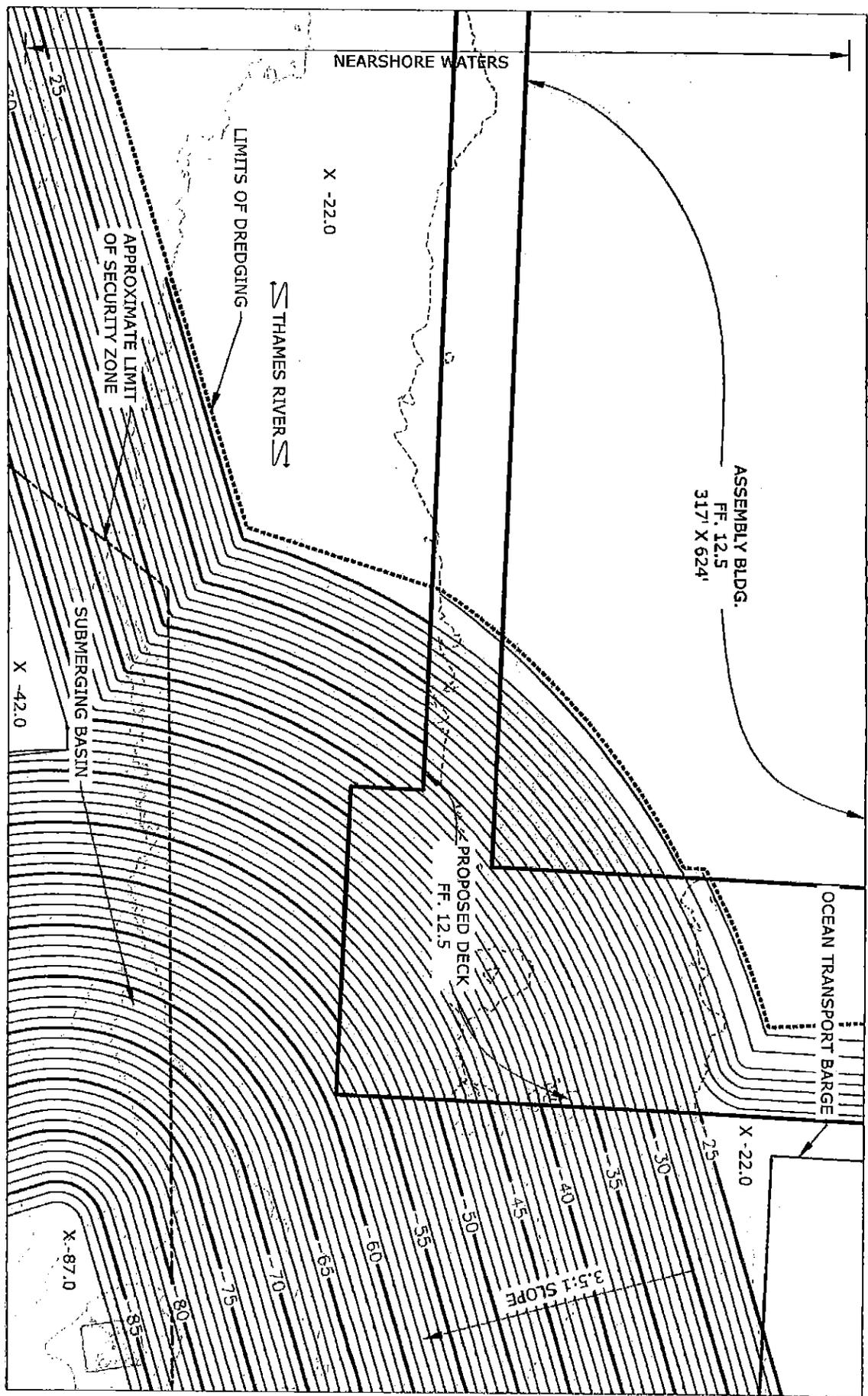
C-209

Title

PROPOSED PLAN

179310250

C-206



C-209

C-211

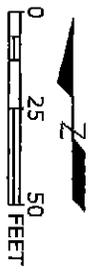
C-214

5/4/2018

ORIGINAL SHEET - ANSI A



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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-210

Title

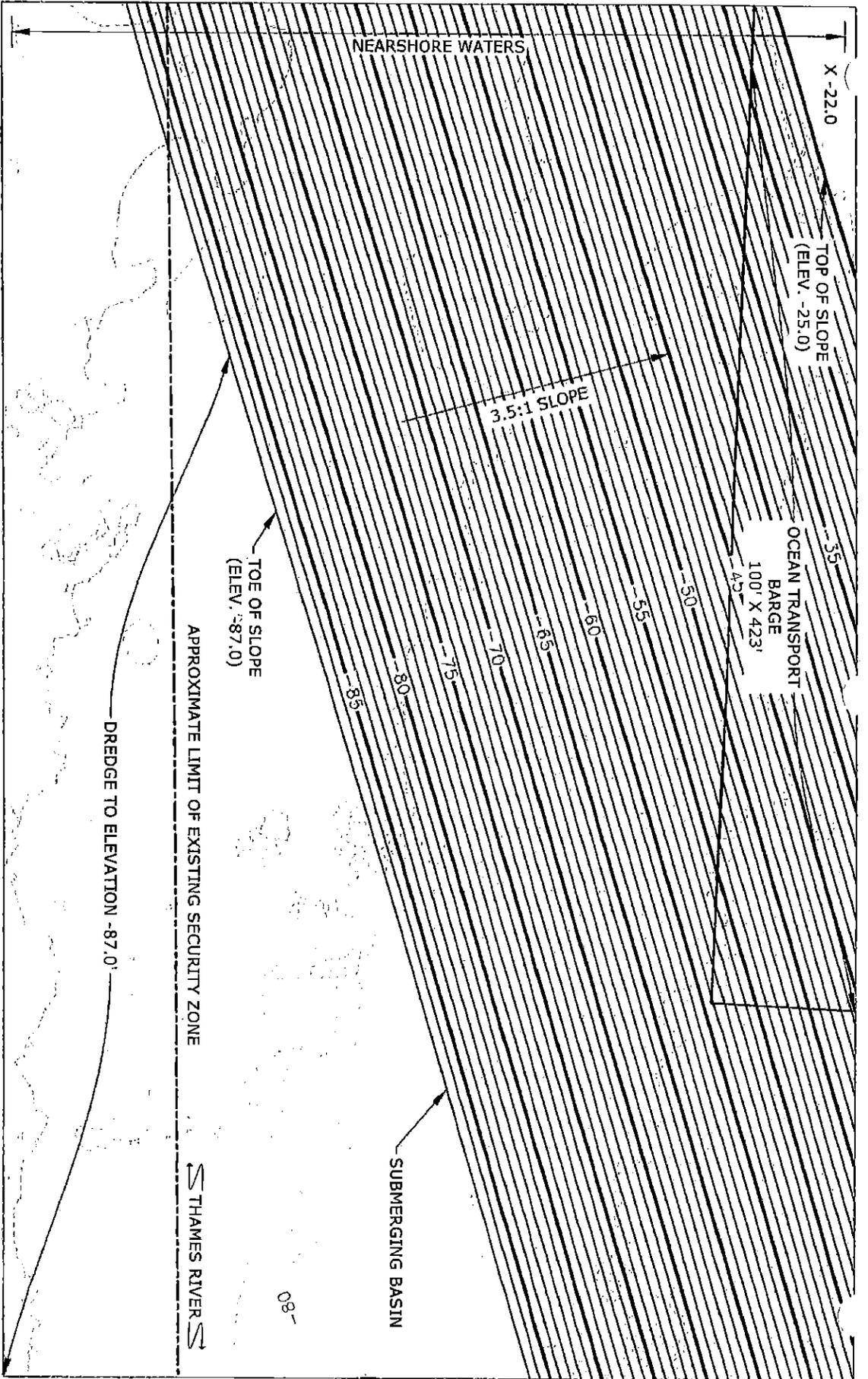
PROPOSED PLAN

179310250



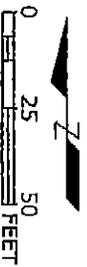
55 Church Street, Suite 601
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C-210



C-207

C-215



5/4/2018

C-212

Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

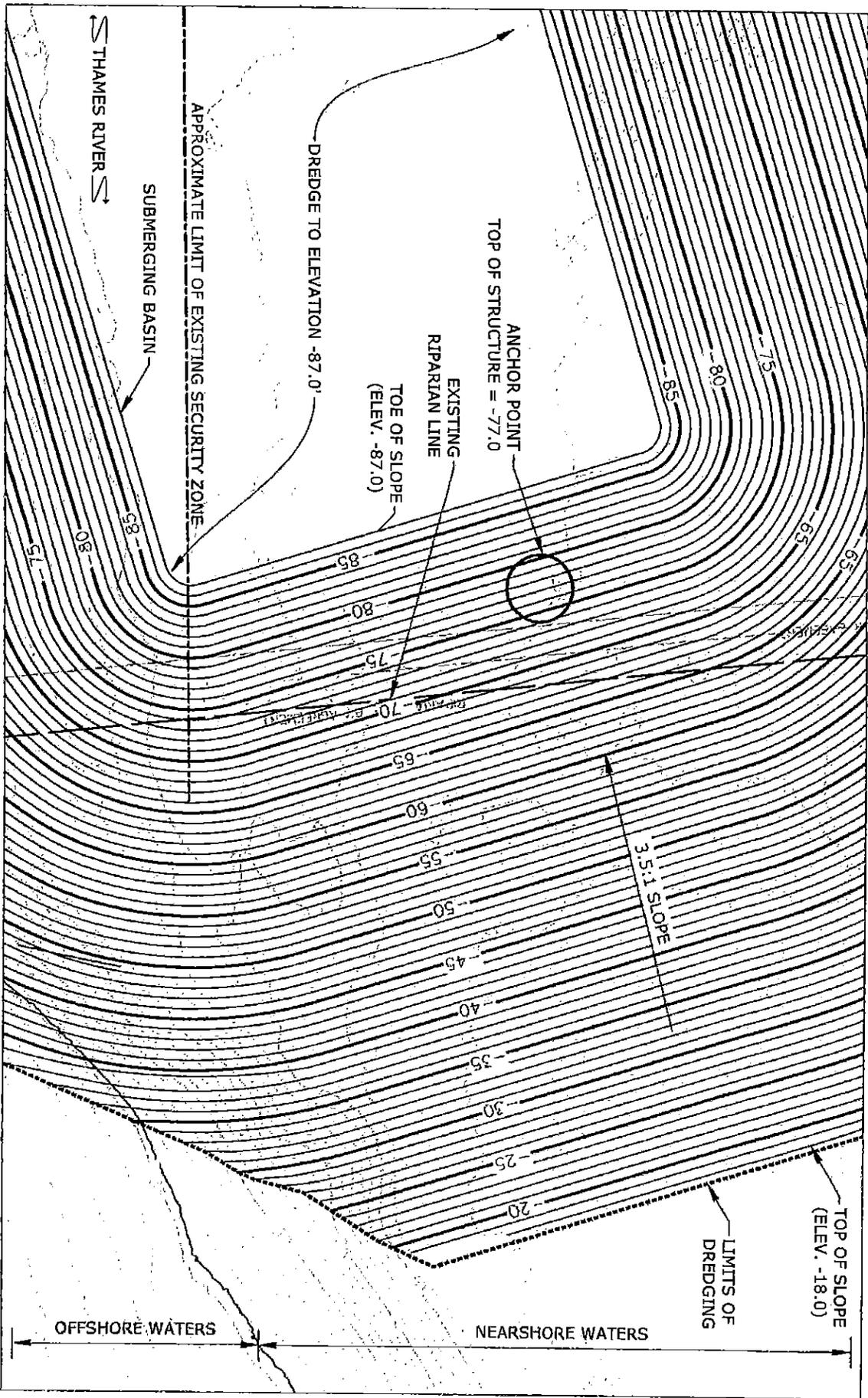
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C-211

1793 0250

Title
PROPOSED PLAN

C-208



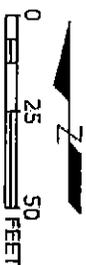
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C-216

5/4/2018

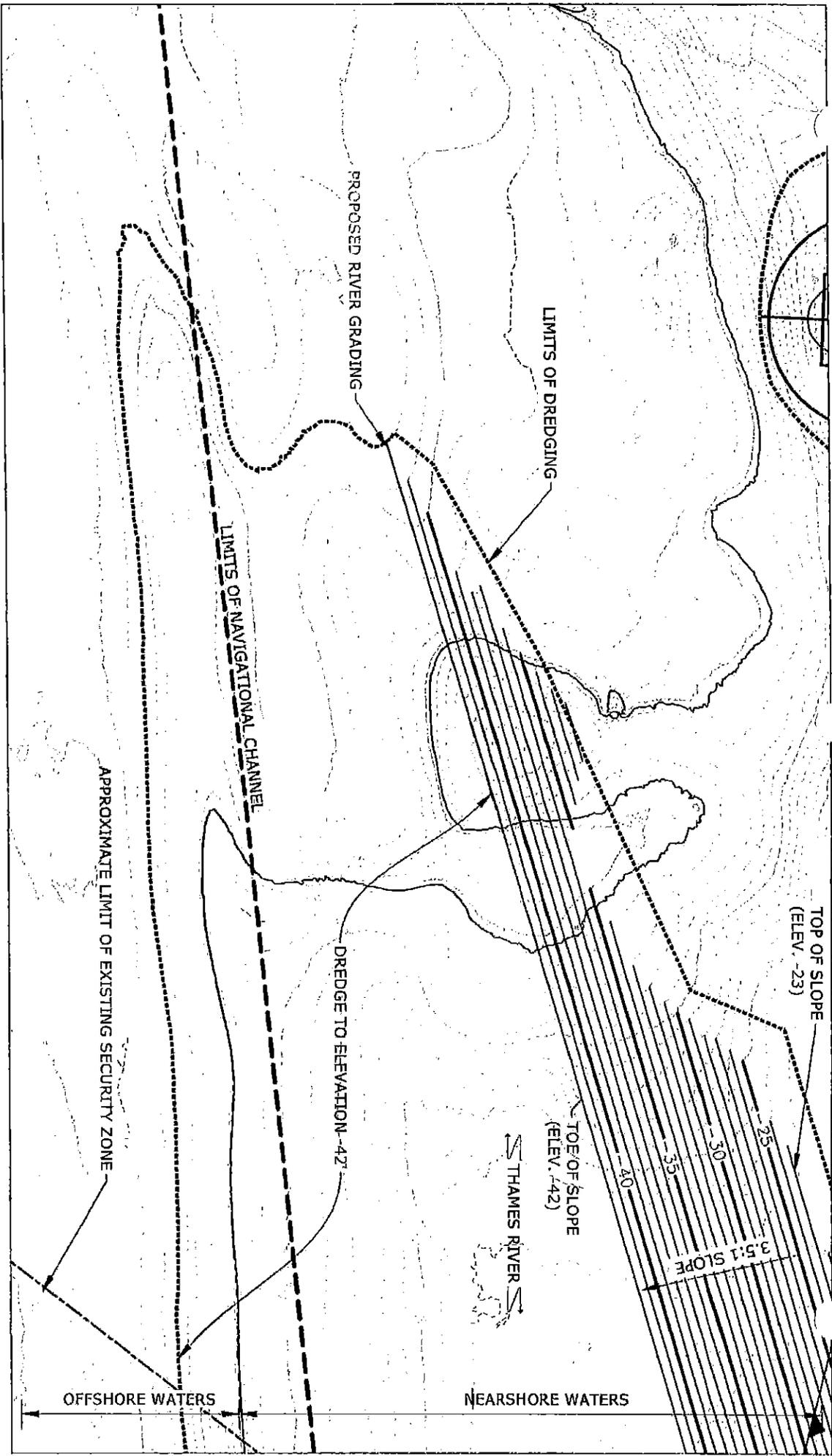


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Client/Project
 ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340
 Figure No.
 C-212
 Title
 PROPOSED PLAN

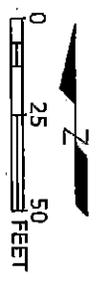
179310250



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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

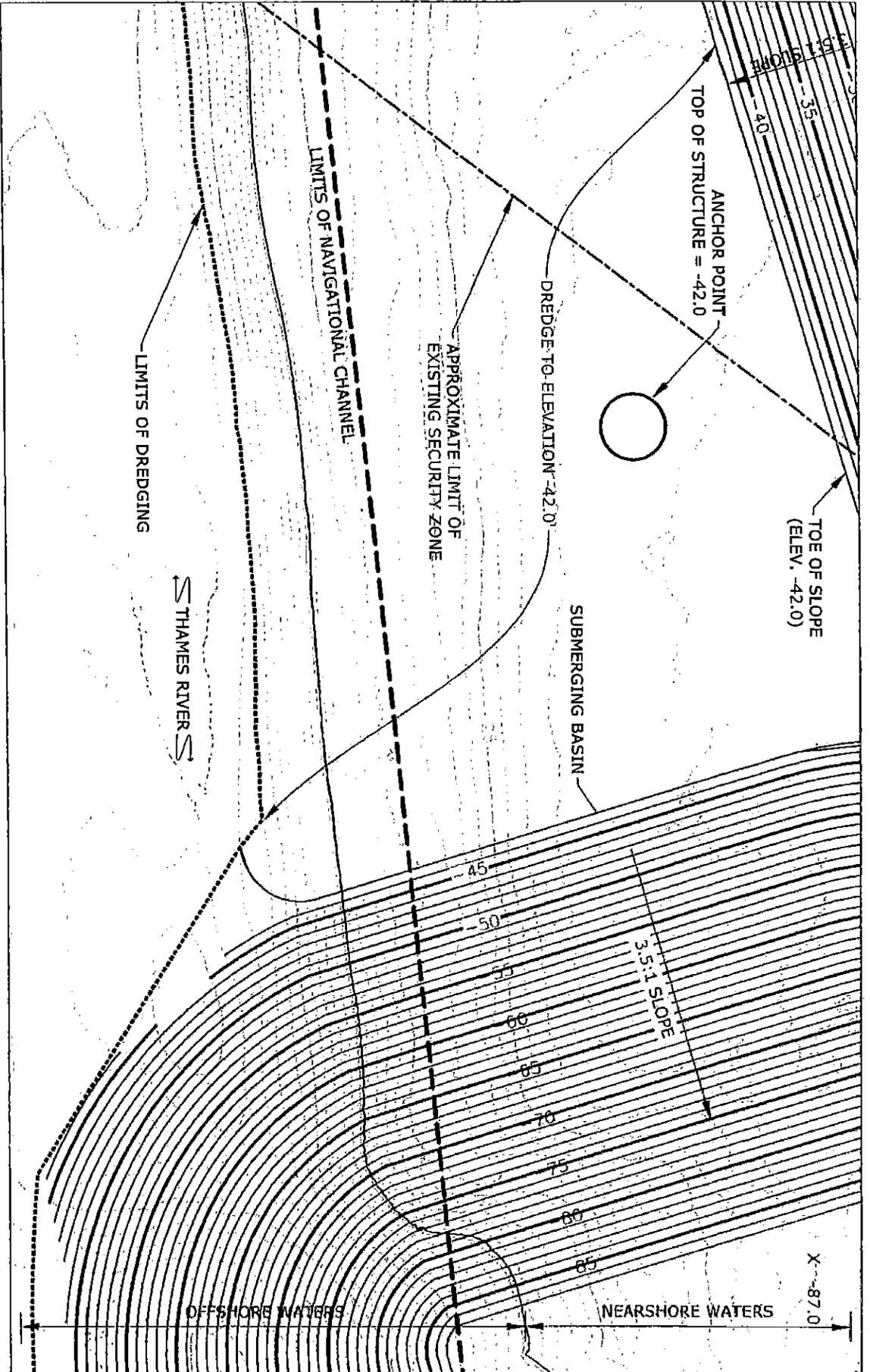
Figure No.

C-213

Title

PROPOSED PLAN

C-213



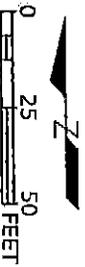
C-210

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ORIGINAL SHEET - ANSI A



Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

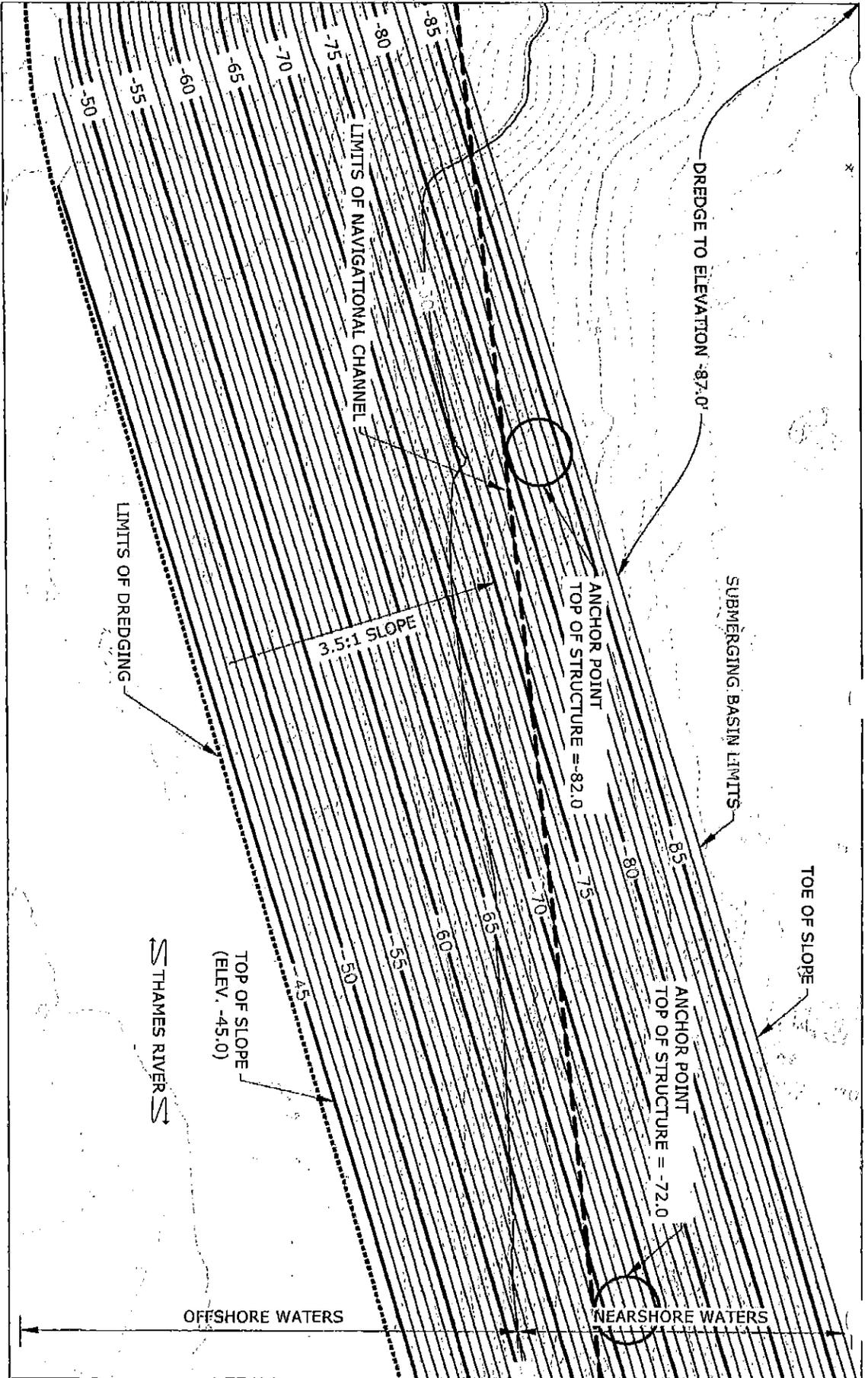
Figure No.

C-214

Title
PROPOSED PLAN

179310250

5/4/2018



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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD. GROTON, CT 06340

Figure No.

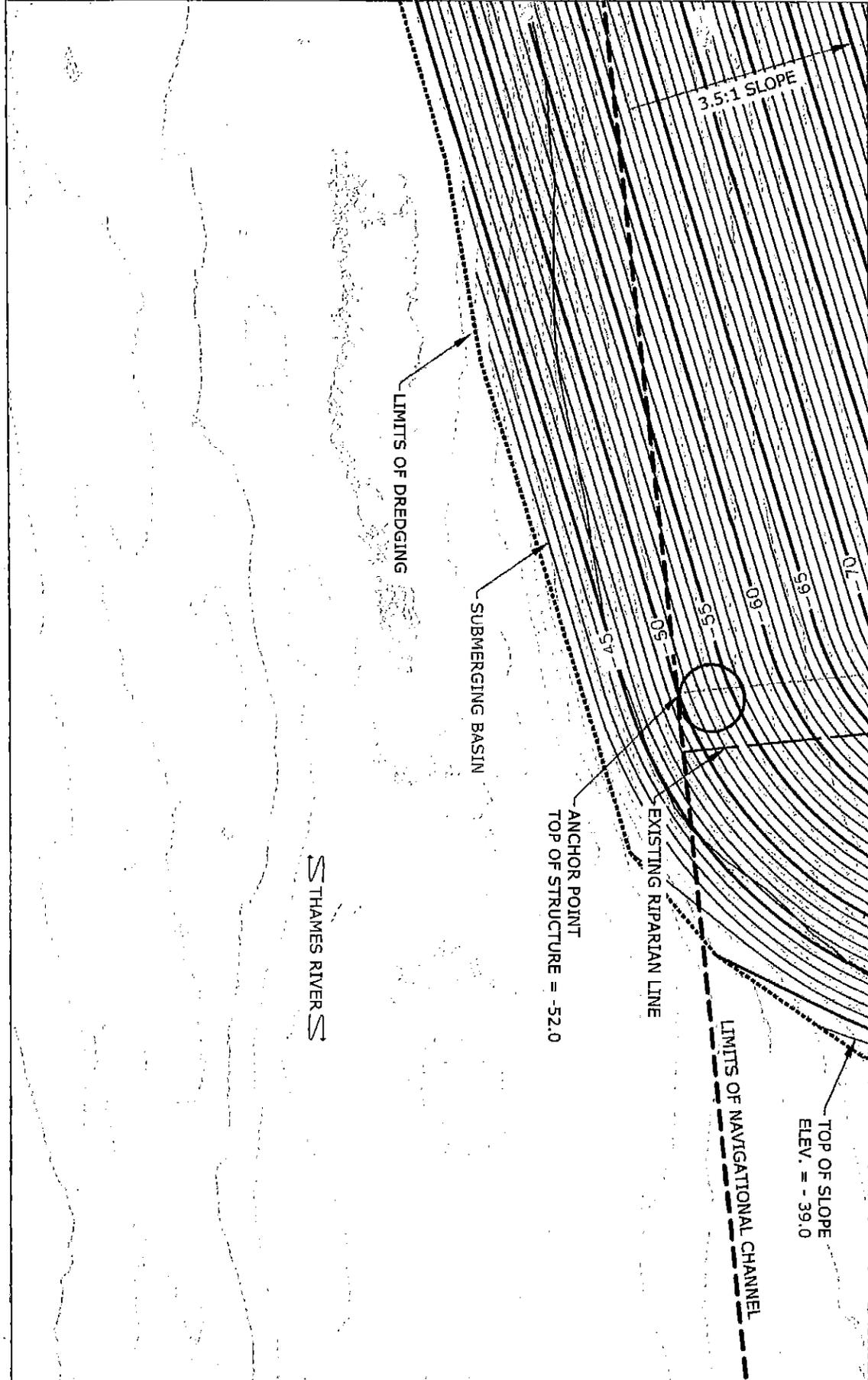
C-215

Title

PROPOSED OVERALL PLAN

179310250

5/4/2018

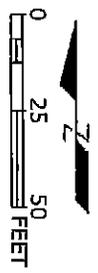


C-215

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Client/Project

ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-216

Title

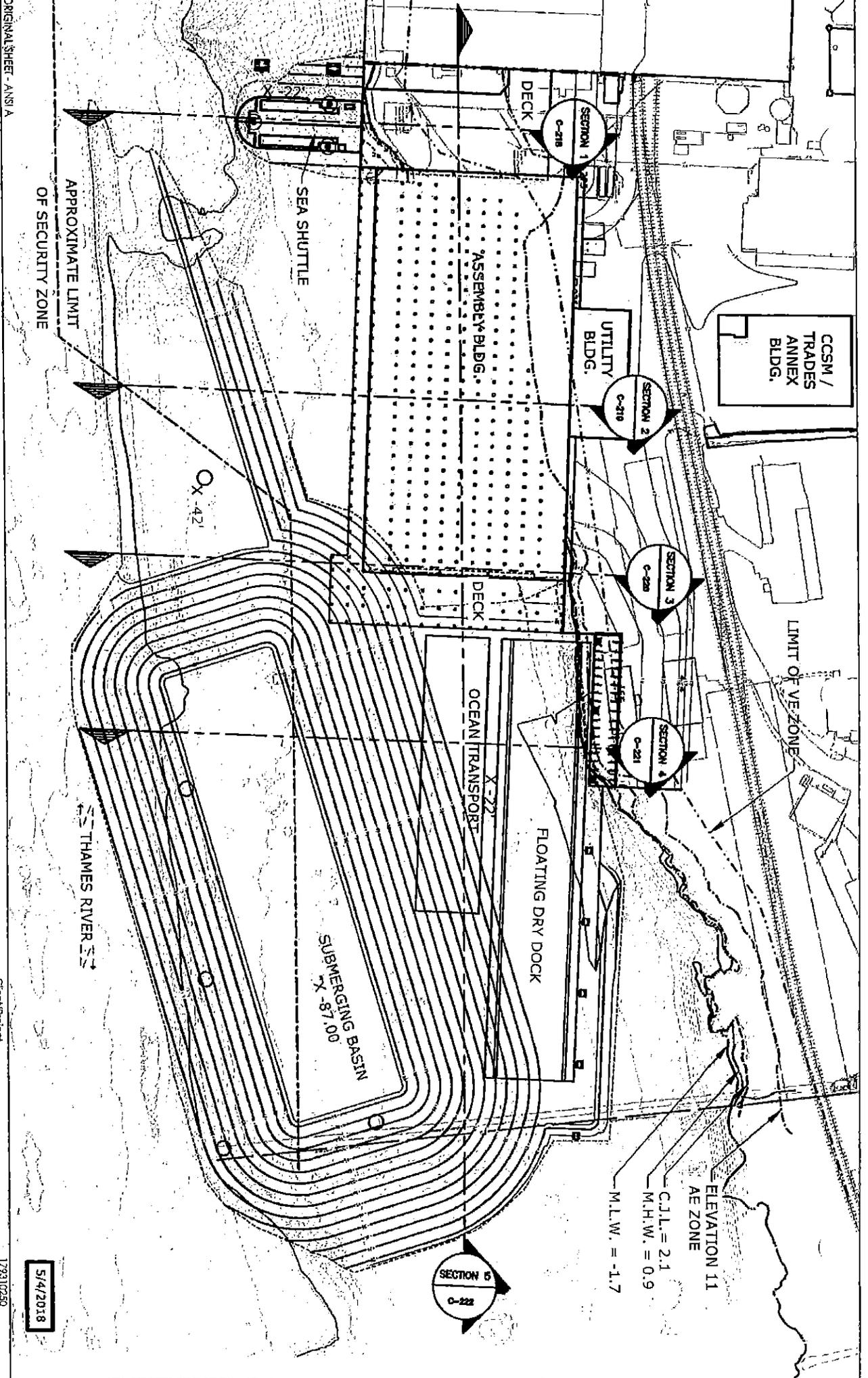
PROPOSED PLAN

179310250



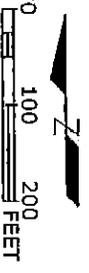
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APPROXIMATE LIMIT
OF SECURITY ZONE



PLAN VIEW

SCALE: 1"=200'



Client/Project

ELECTRIC BOAT
SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-217

Title
SECTION INDEX PLAN

5/4/2018

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Client/Project

ELECTRIC BOAT
SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

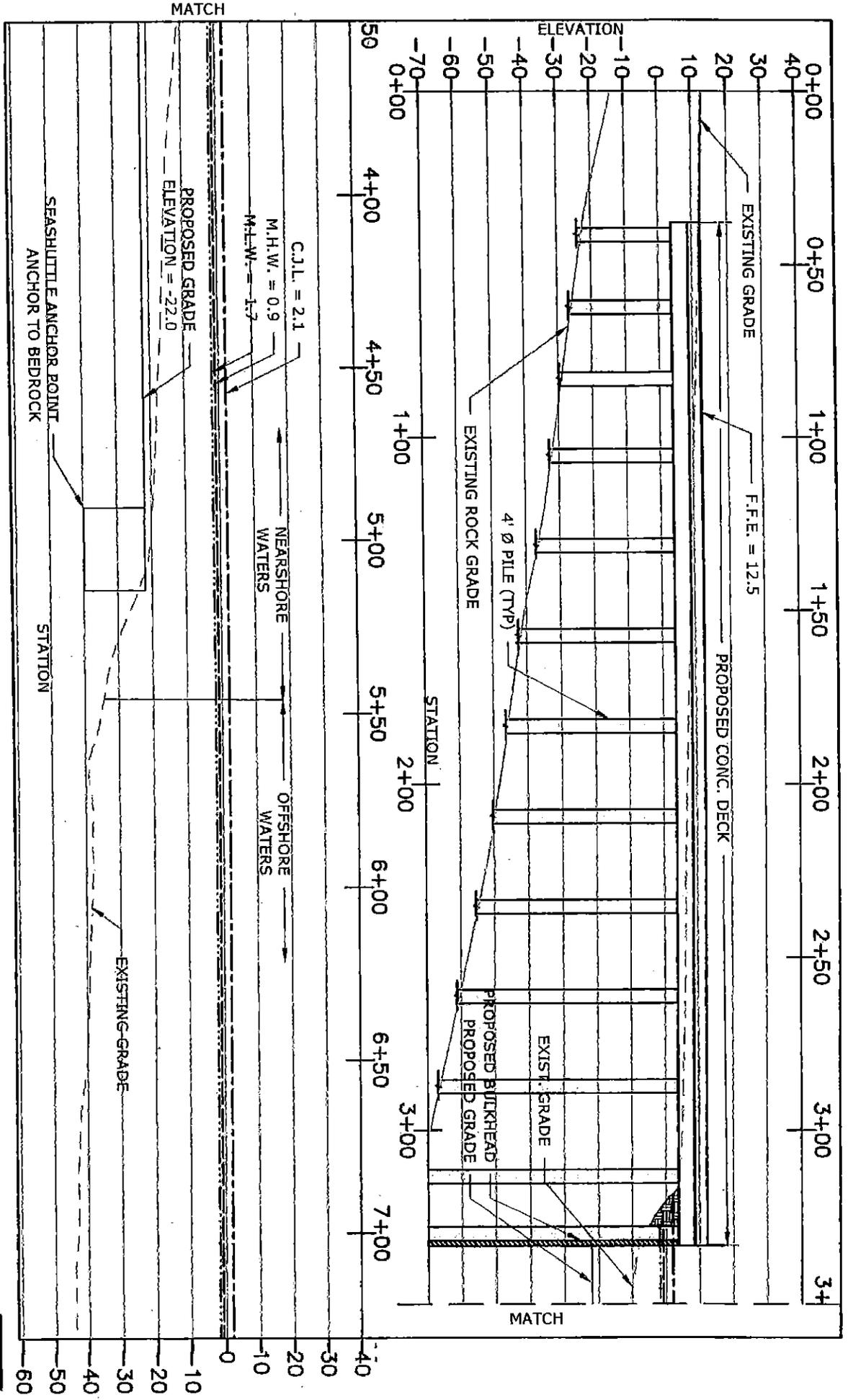
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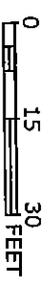
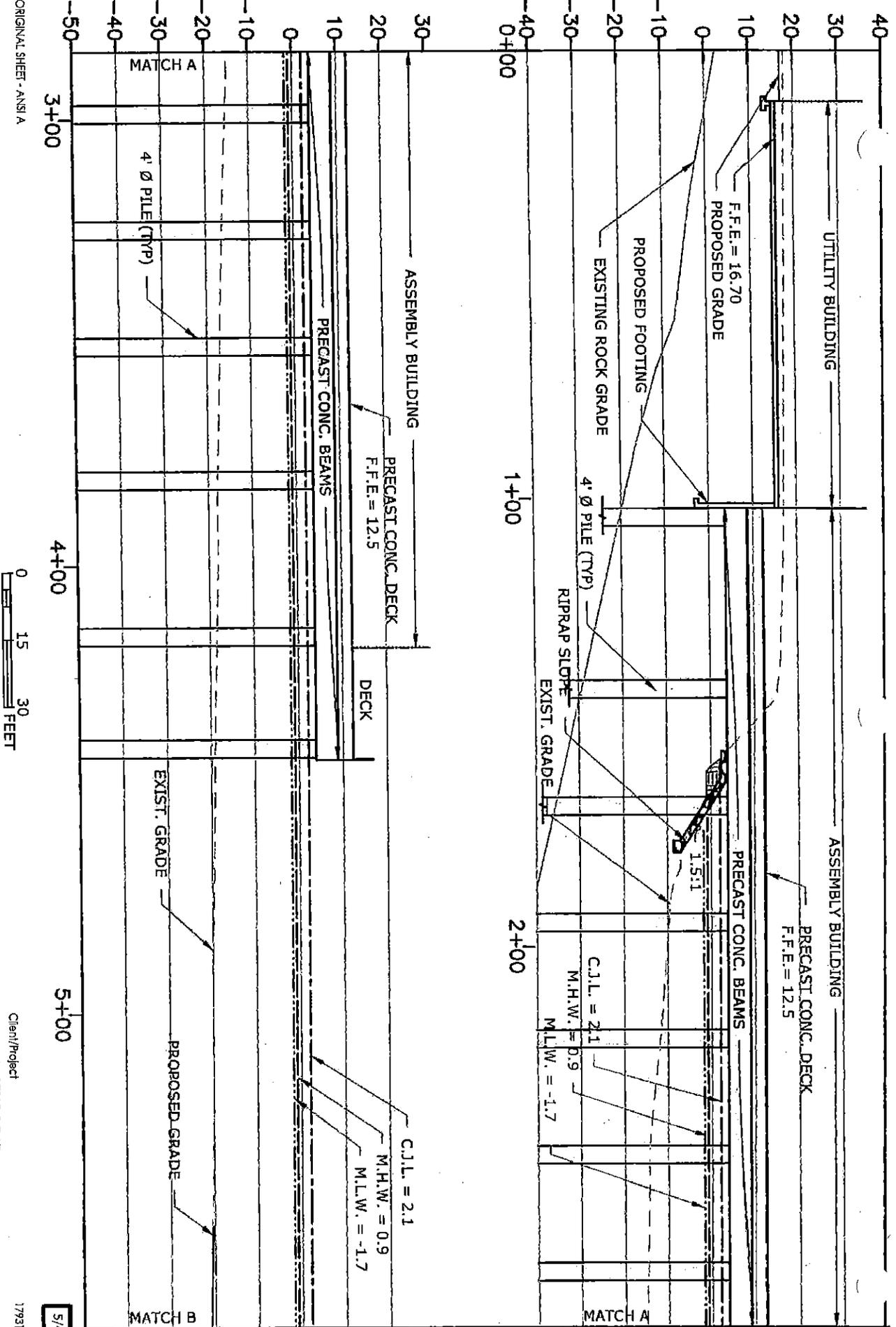
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SECTION 1

179310250

5/4/2018





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Client/Project
 ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

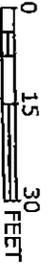
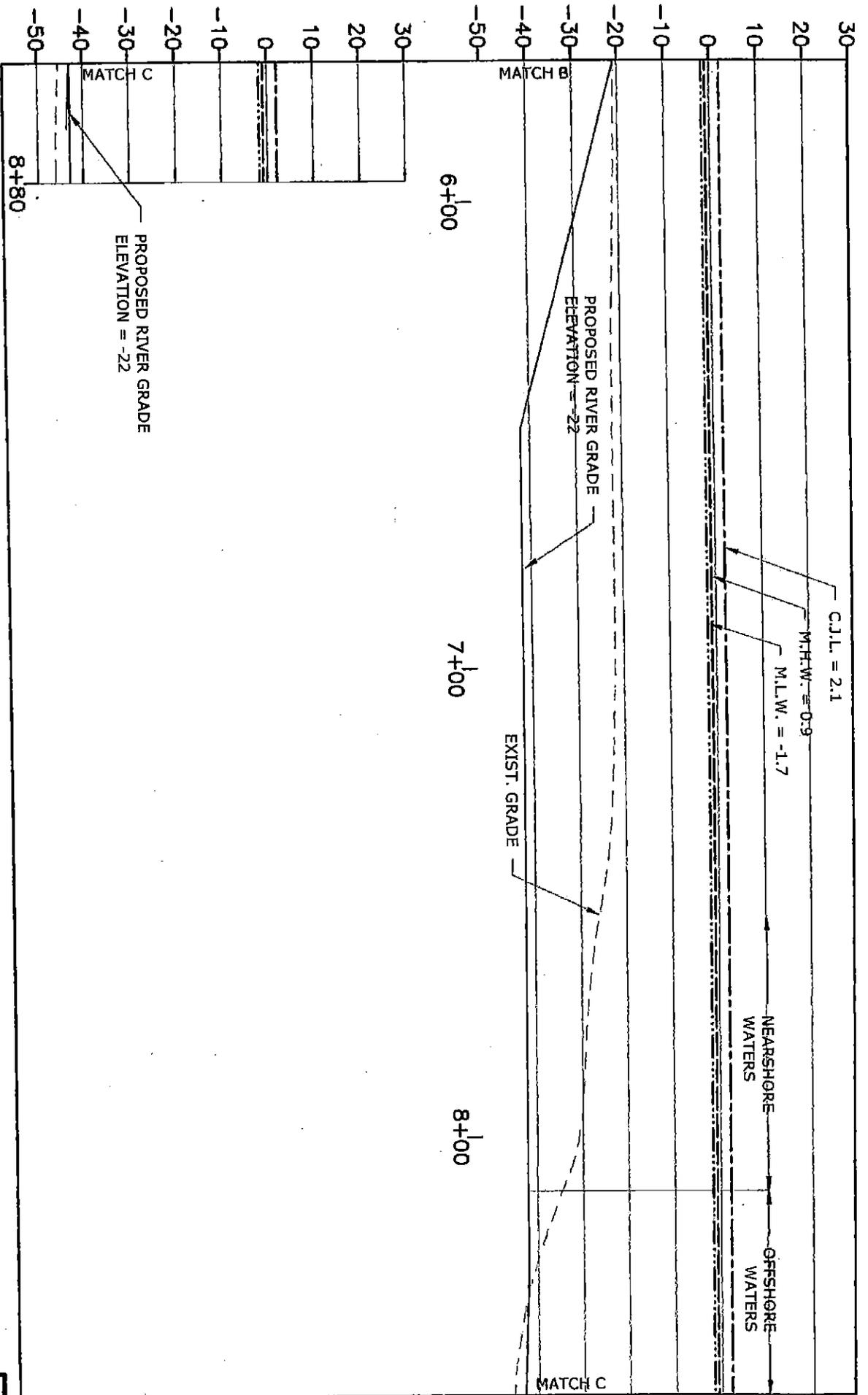
Figure No.
 C-219A
 Title
 SECTION 2

5/4/2018

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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

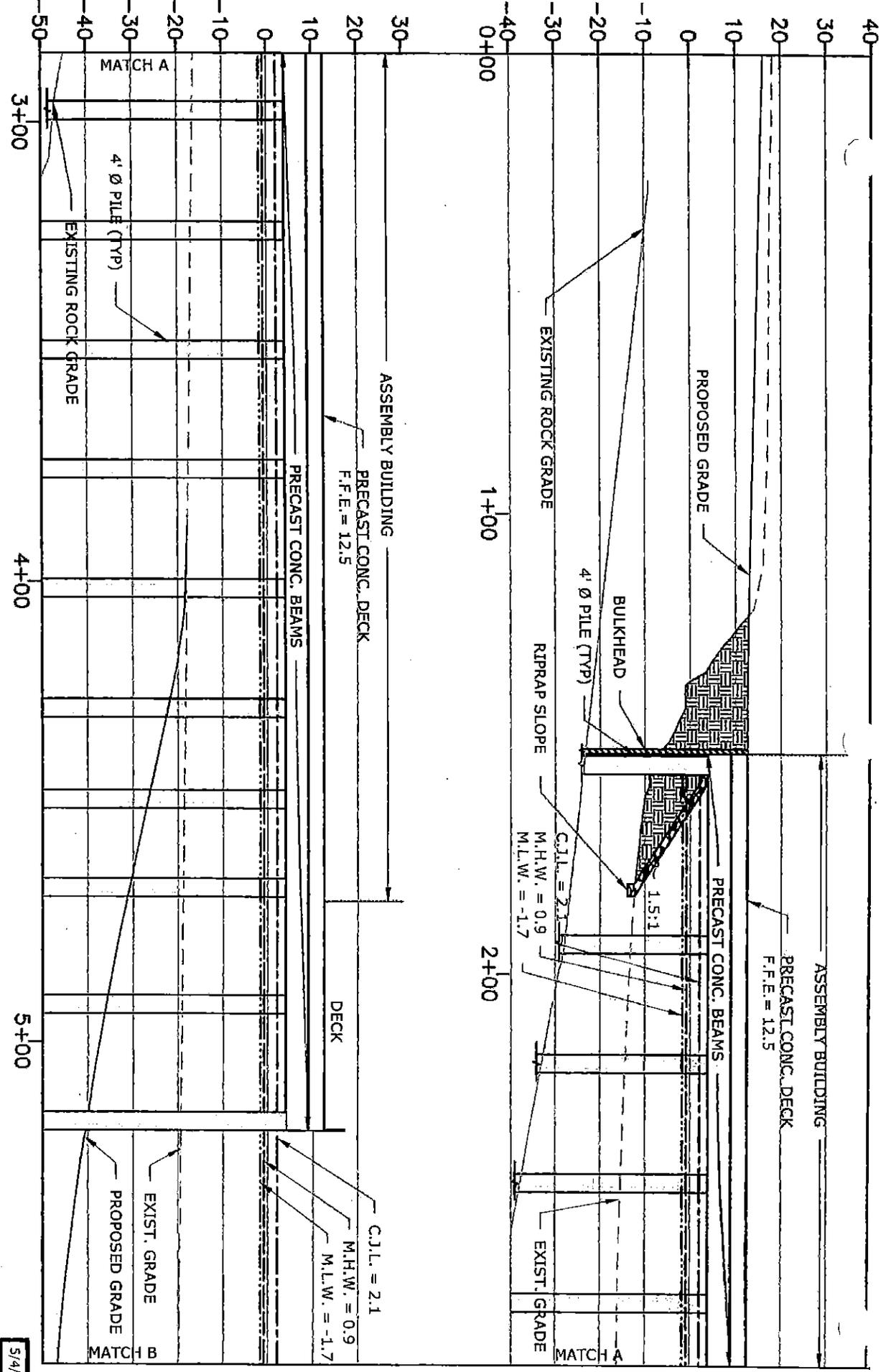
Figure No.

C-2198

Title

SECTION 2

179310250



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ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

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5/4/2018

Figure No.

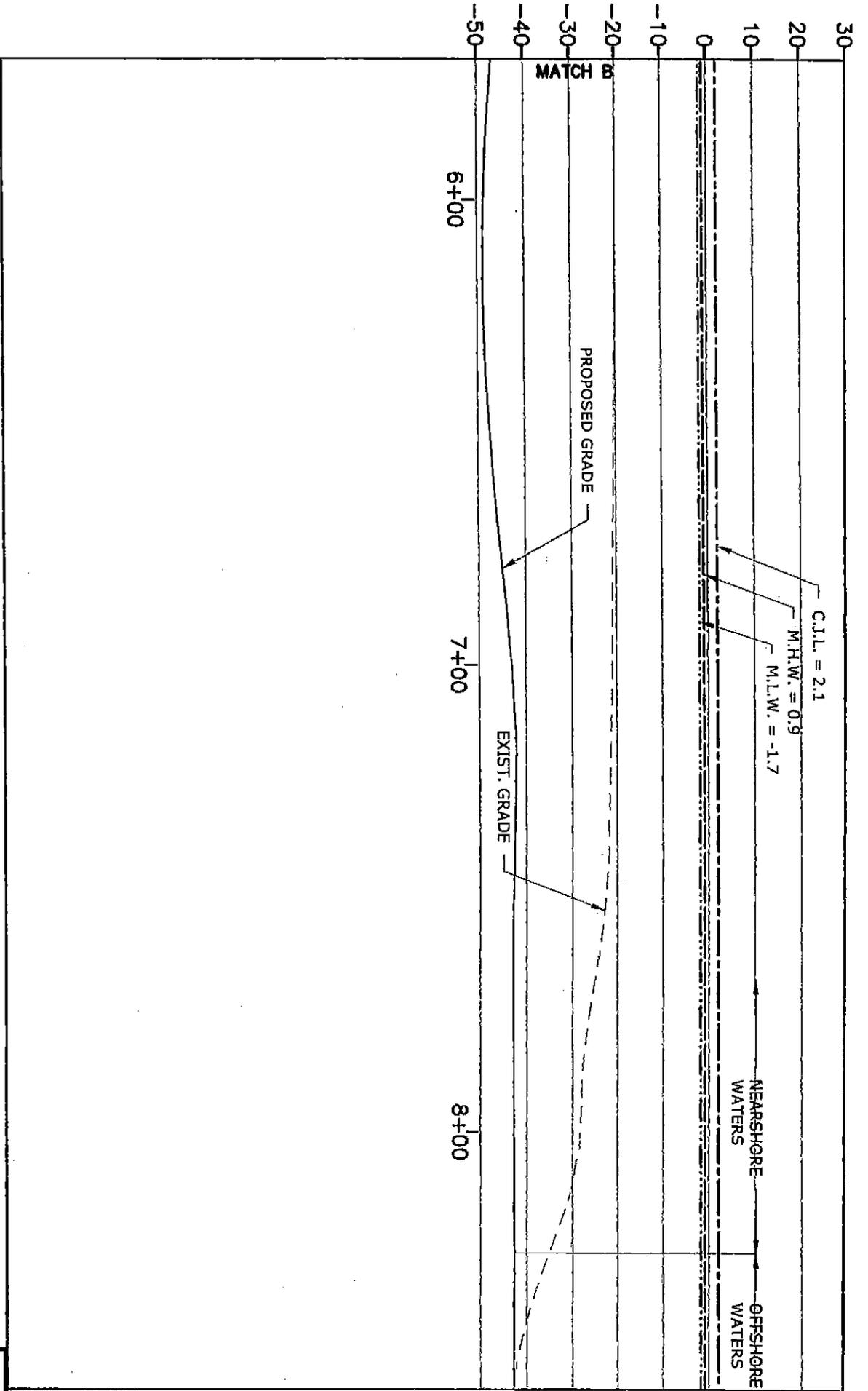
C-220A

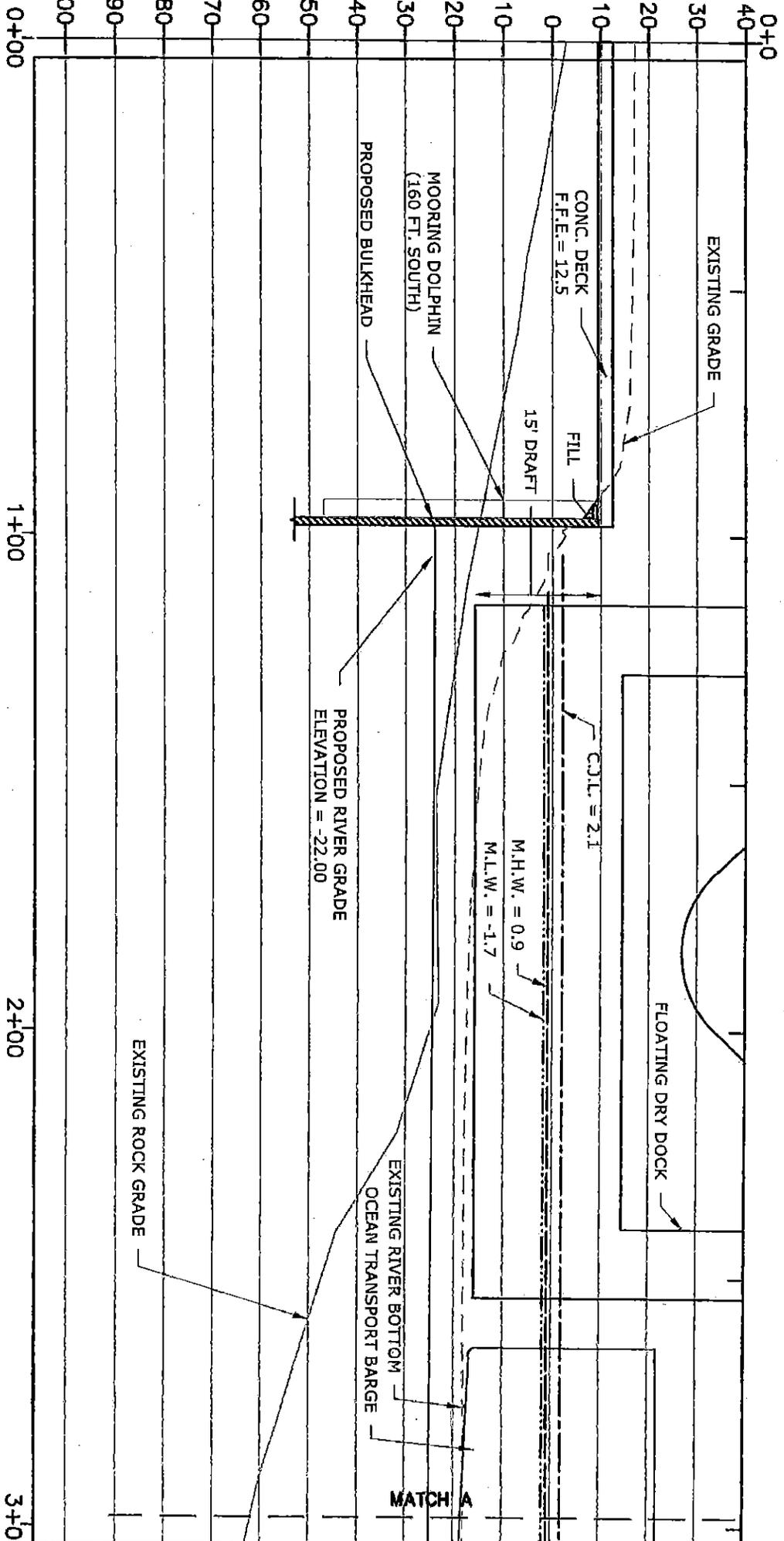
Title
 SECTION 3



Client/Project
 ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340
 Figure No.
 C-220B
 Title
 SECTION 3 (CONT.)

PROGRESS PRINT
 2/14/2018
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ORIGINAL SHEET - ANSI A



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Client/Project

ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

1/79310250

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Figure No.

C-221A

Title
 SECTION 4



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SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

179310250

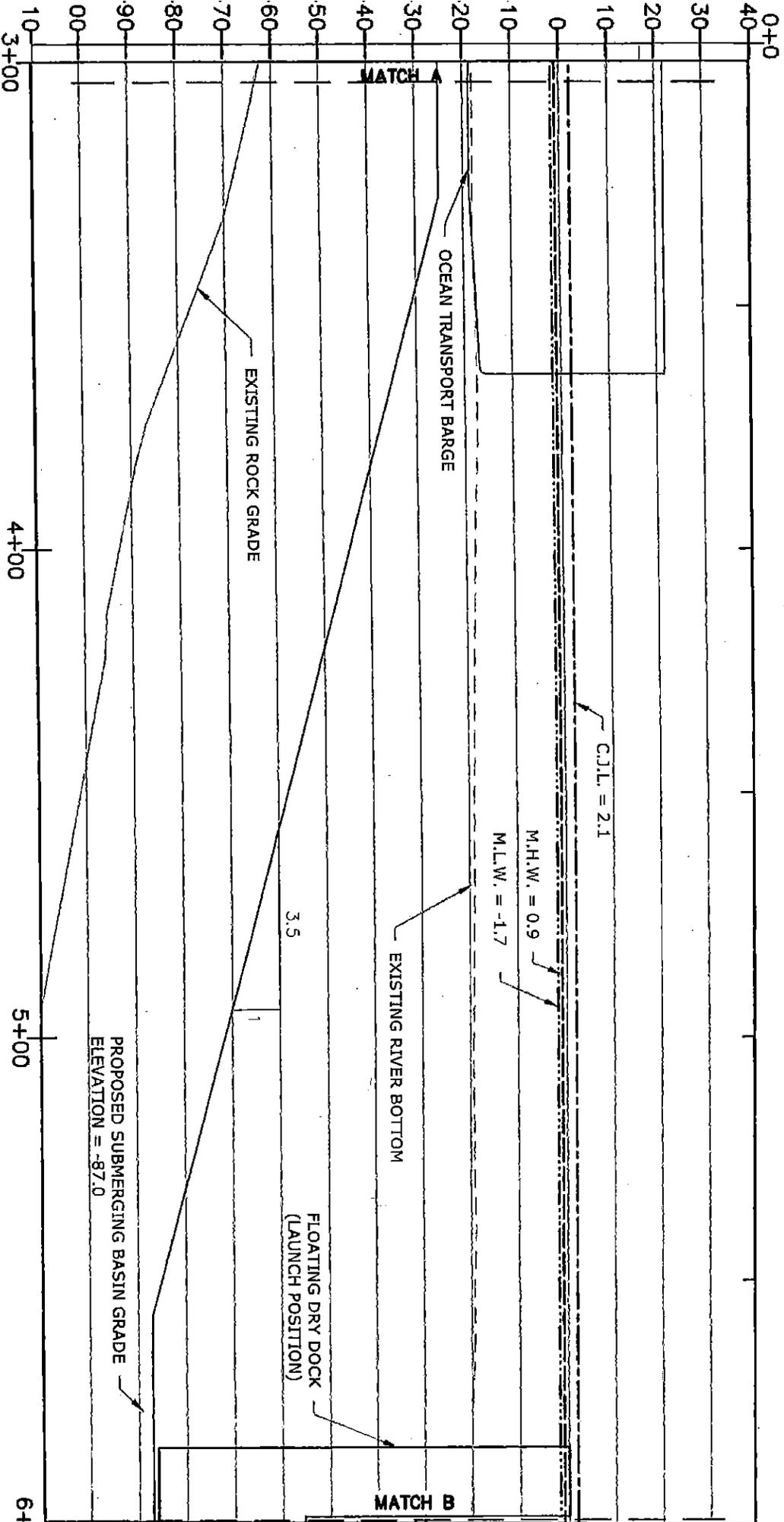
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Figure No.

C-221B

Title

SECTION 4





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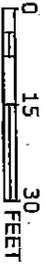
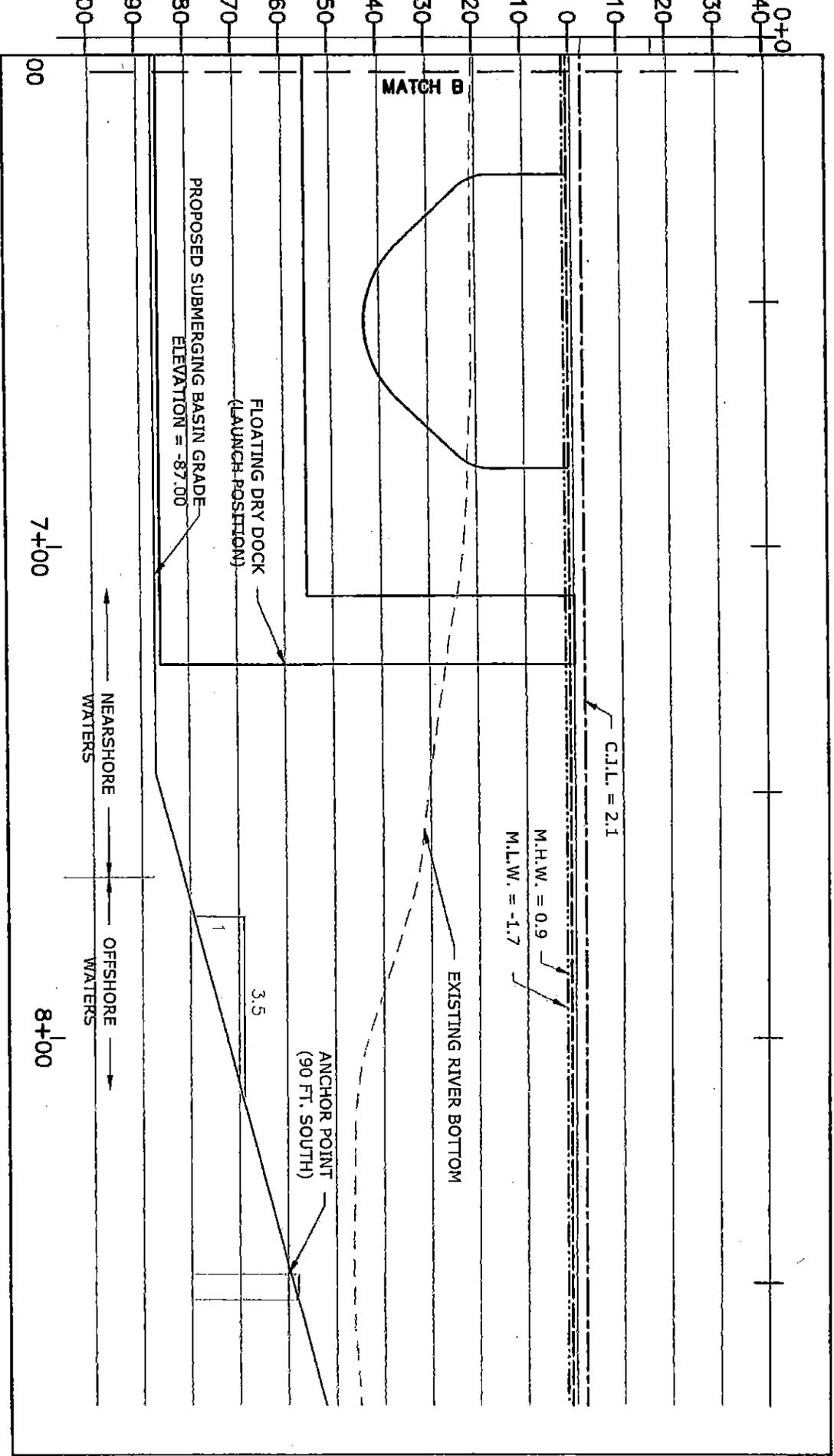
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5/4/2018

Figure No.

C-221C

Title
SECTION 4





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SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

1/79310250

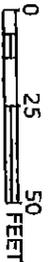
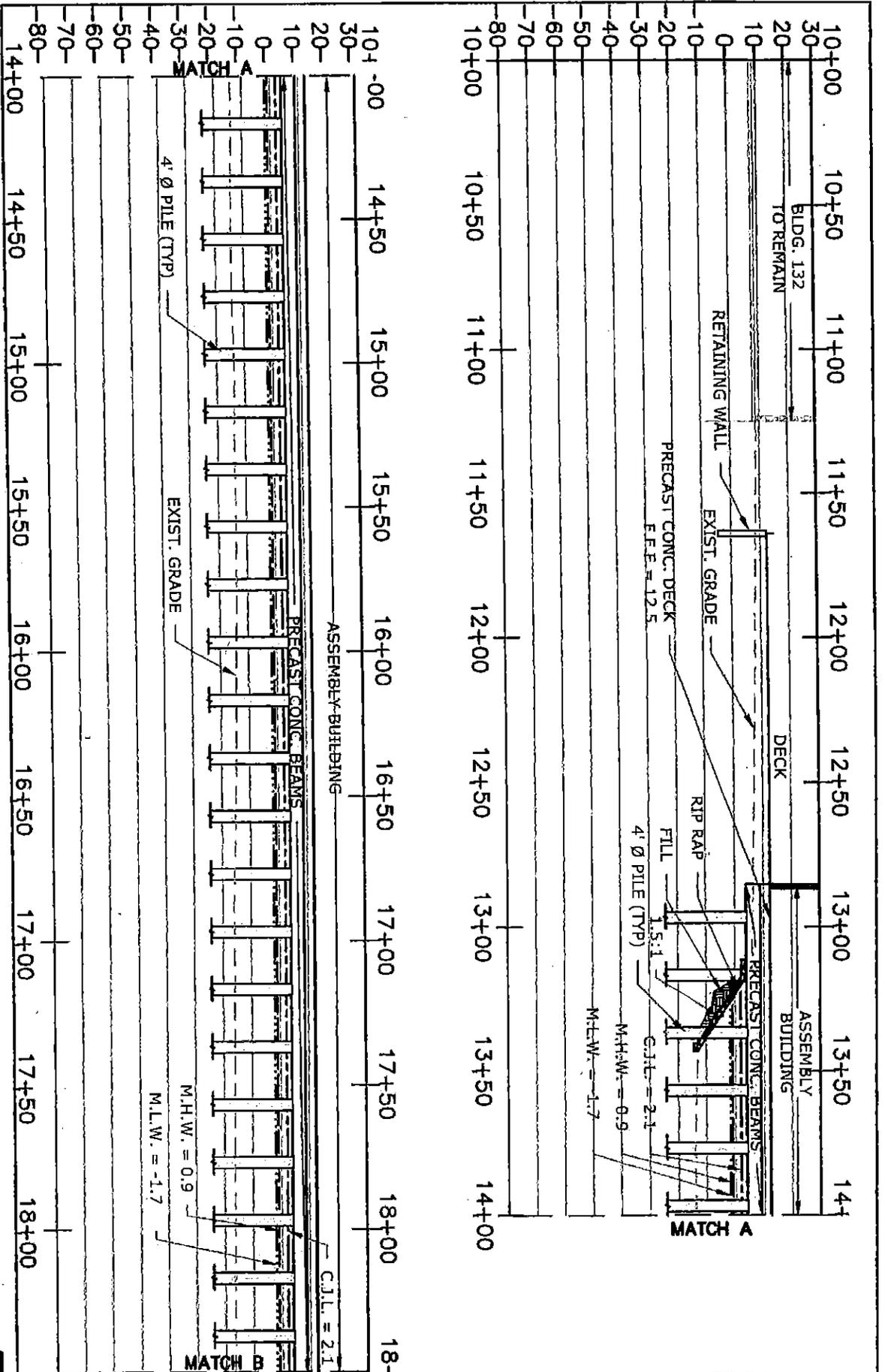
5/4/2018

Figure No.

C-222A

Title

SECTION 5





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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

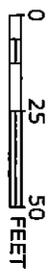
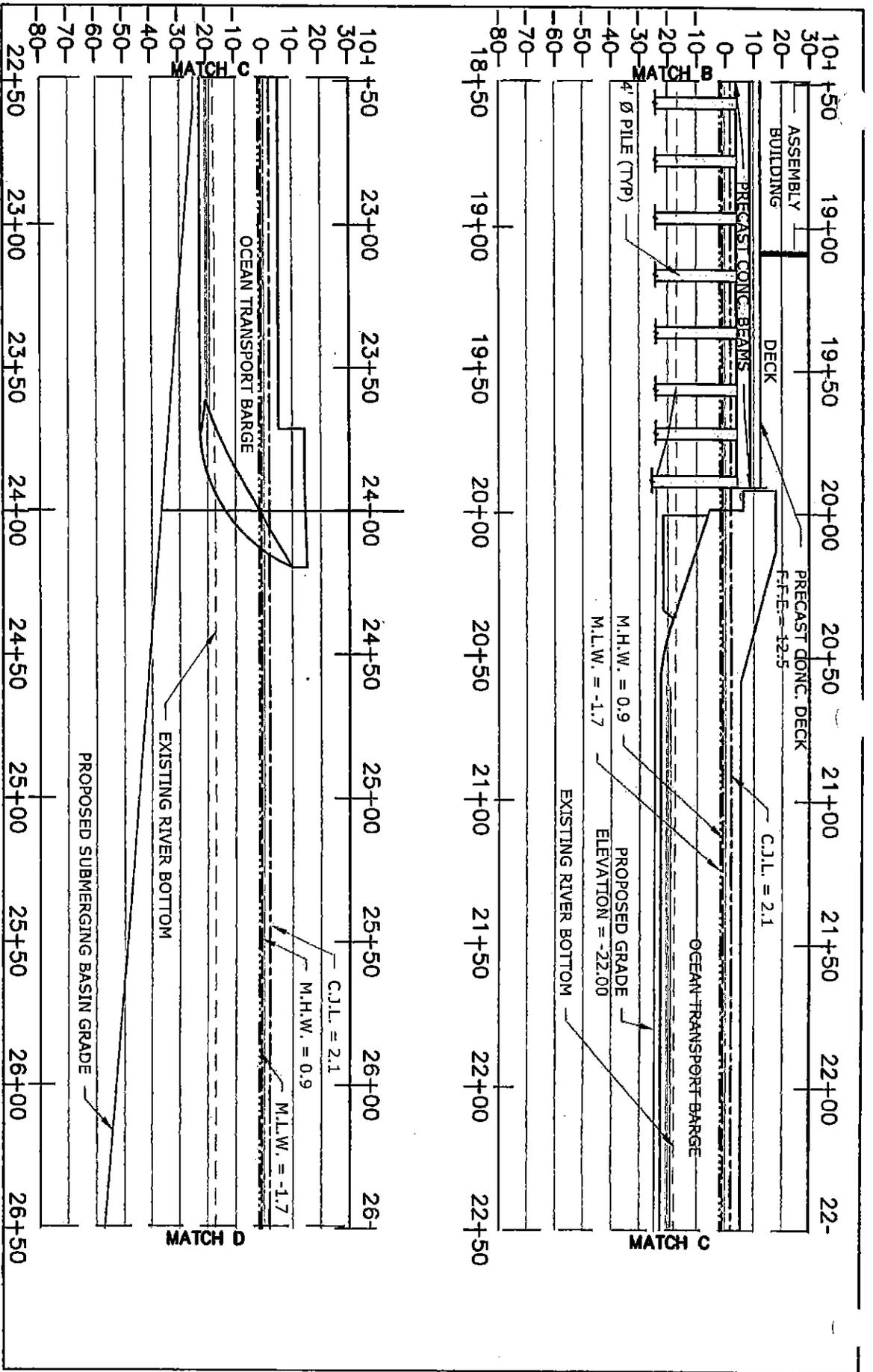
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5/4/2018

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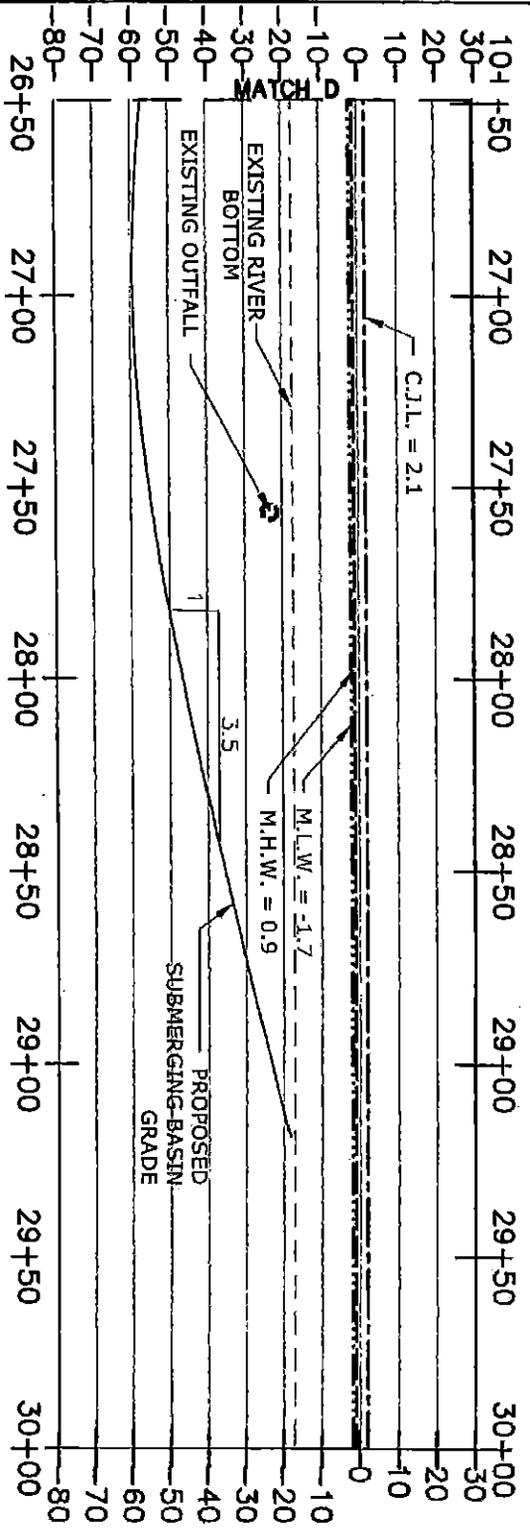
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Title SECTION 5





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Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-222C

Title

SECTION 5

5/4/2018

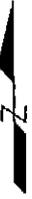
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LEGEND



PLAN VIEW



Client/Project

ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

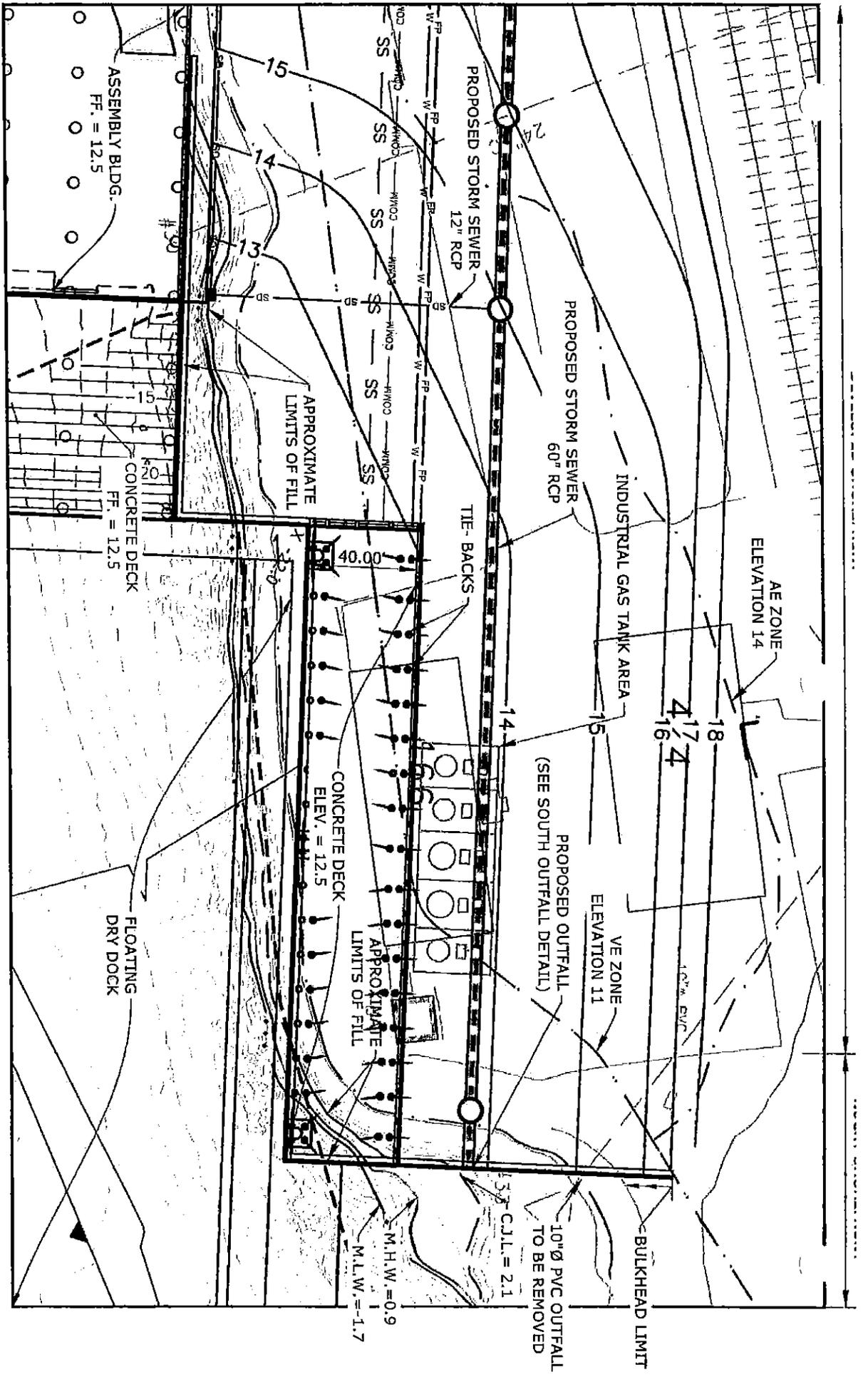
Figure No.

C-300

SOUTH BULKHEAD/OUTFALL PLAN

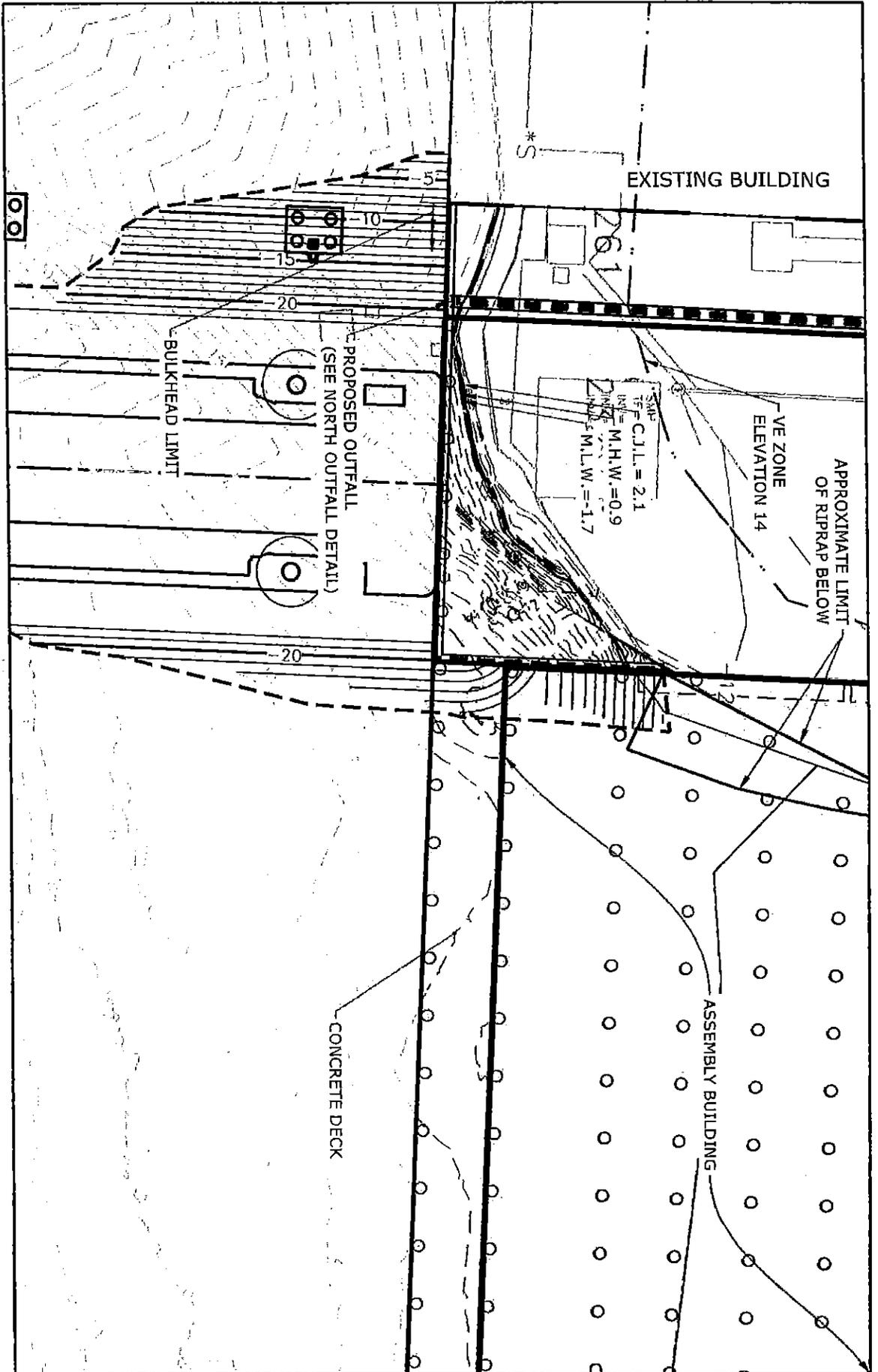
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PLAN VIEW
SCALE: 1"=50'

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ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-301

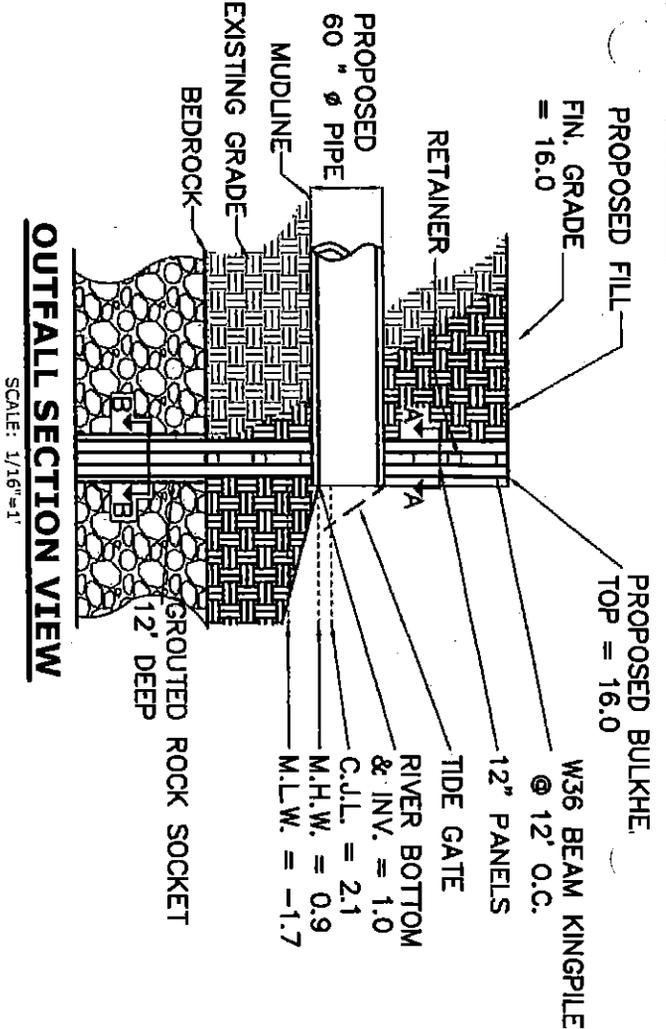
Title
NORTH BULKHEAD/OUTFALL PLAN

179310250

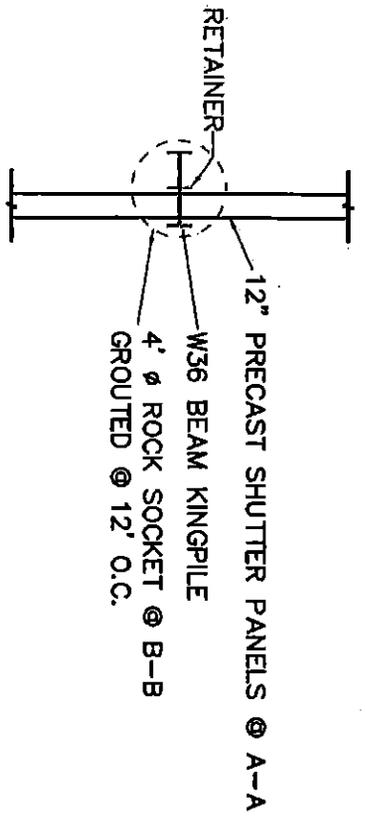
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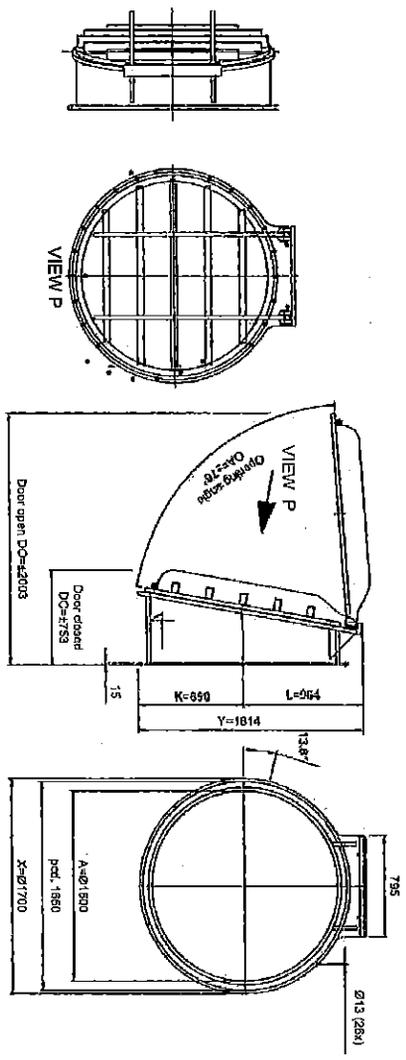


OUTFALL SECTION VIEW
 SCALE: 1/16"=1'



BULKHEAD PLAN
 SCALE: 1/8"=1'

TIDE GATE DETAIL
 NTS SCALE



Client/Project: 179310250

ELECTRIC BOAT
 SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

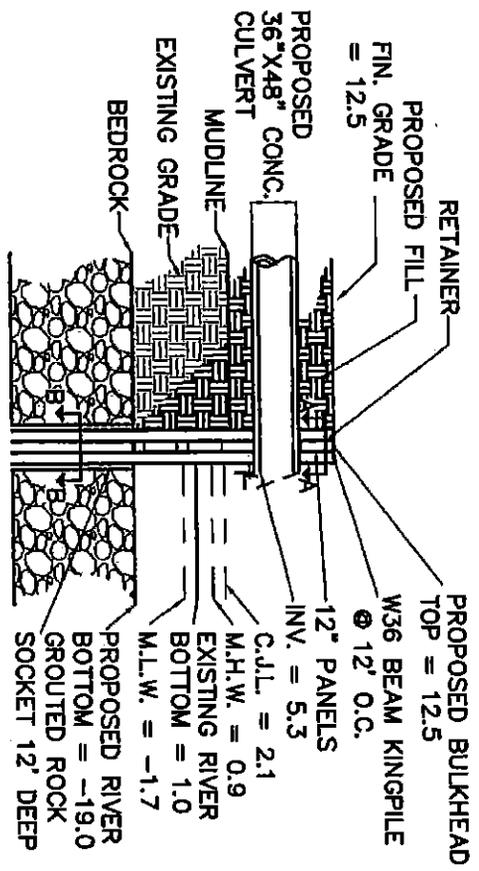
Figure No. C-302

Title: SOUTH BULKHEAD/OUTFALL SECTIONS

5/4/2018

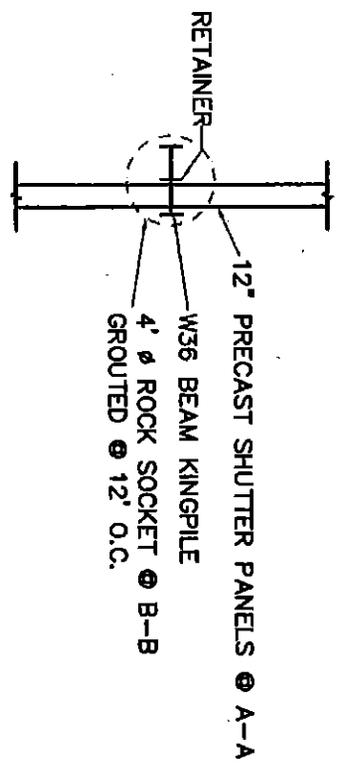


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OUTFALL SECTION VIEW

SCALE: 1/16"=1'



BULKHEAD PLAN

SCALE: 1/8"=1'

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ELECTRIC BOAT

SOUTH YARD
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Figure No.
C-303

Title
NORTH BULKHEAD/OUTFALL SECTIONS



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NOTE:

FLOATING DRY DOCK TO REMAIN TETHERED TO ALL ANCHOR POINTS AND/OR MOORING DOLPHINS AT ALL TIMES.

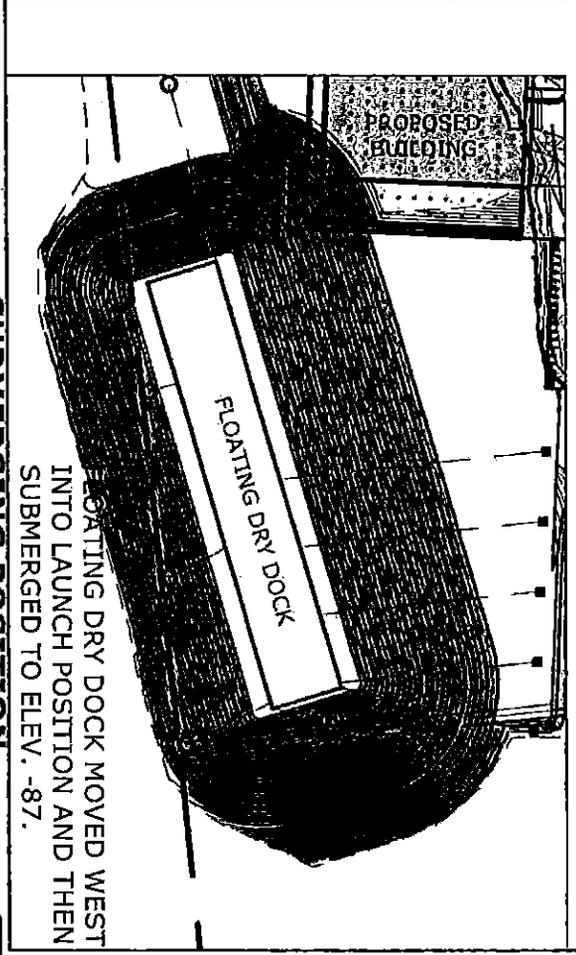
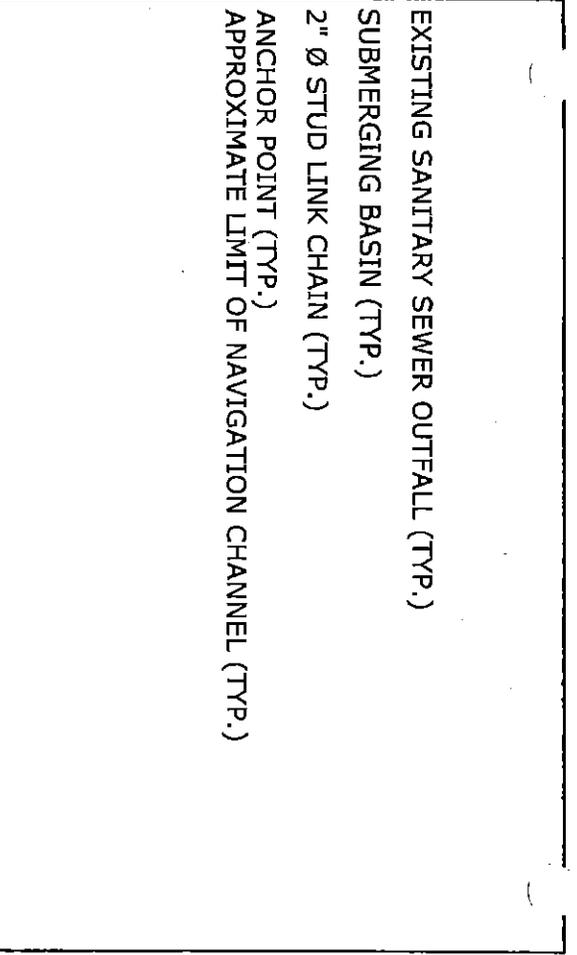
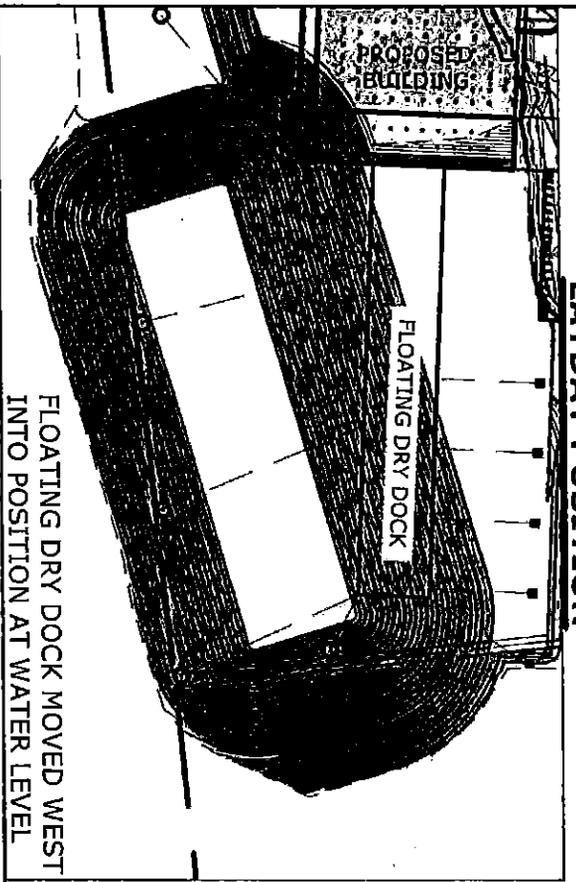
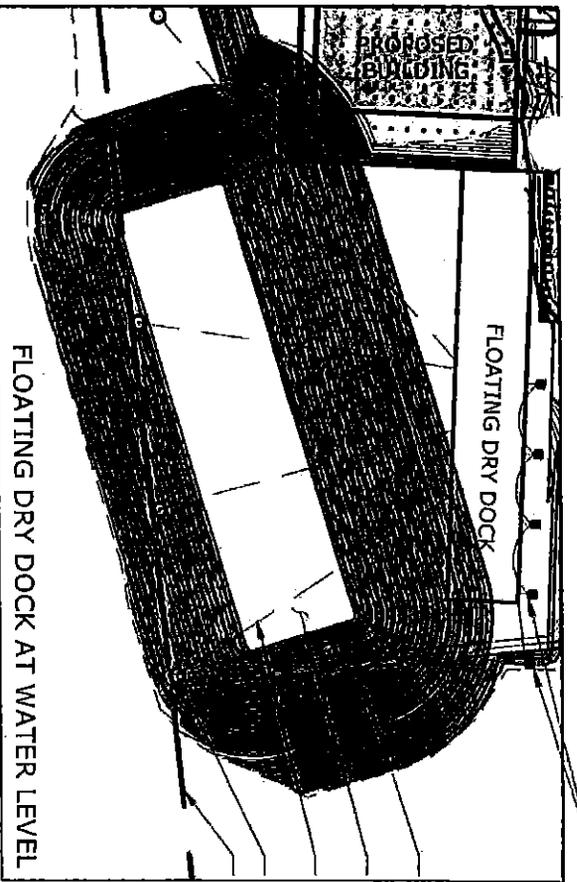
Client/Project

ELECTRIC BOAT
SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

179310250

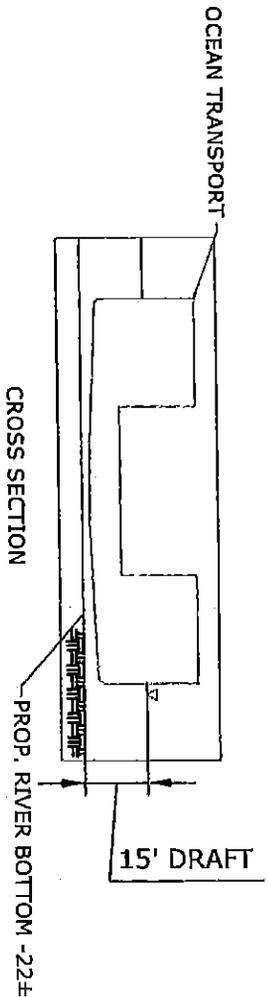
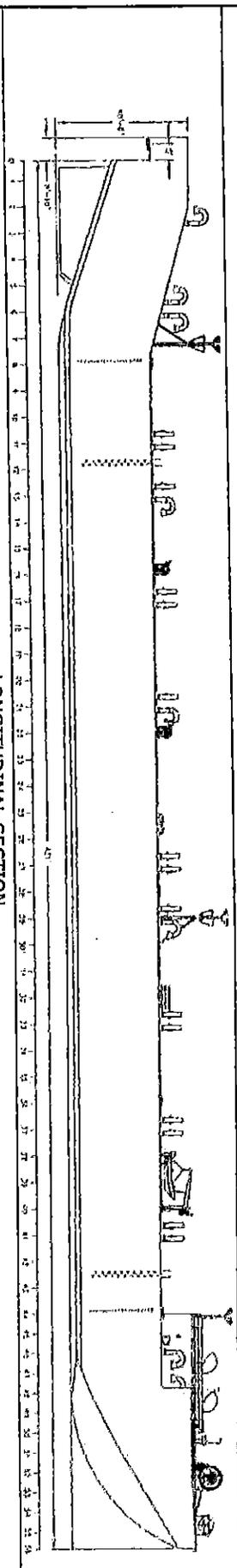
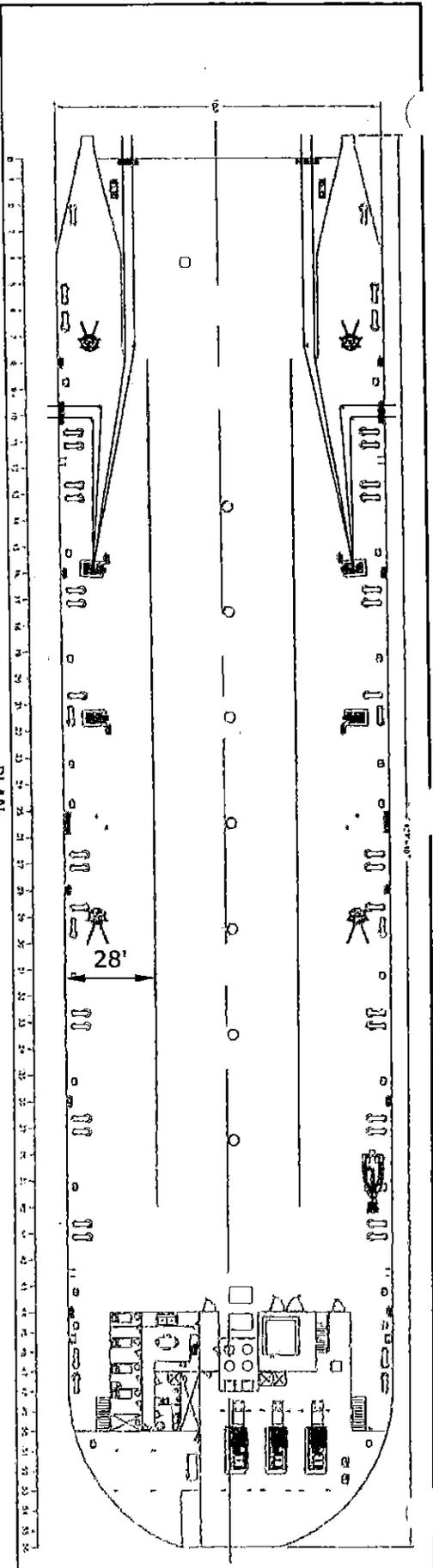
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Title
C-304
FLOATING DRY DOCK MOORING PLAN





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OCEAN TRANSPORT

Client/Project
ELECTRIC BOAT

SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

Figure No.
C-306

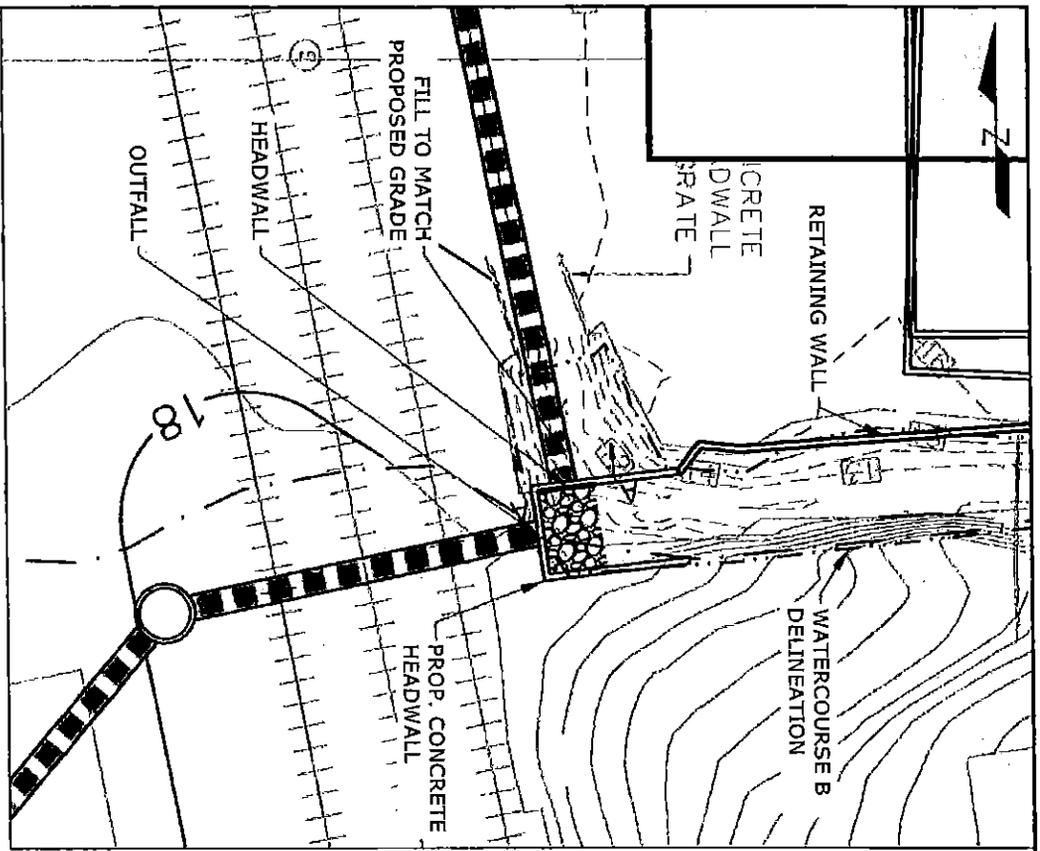
Title
OCEAN TRANSPORT

5/4/2018

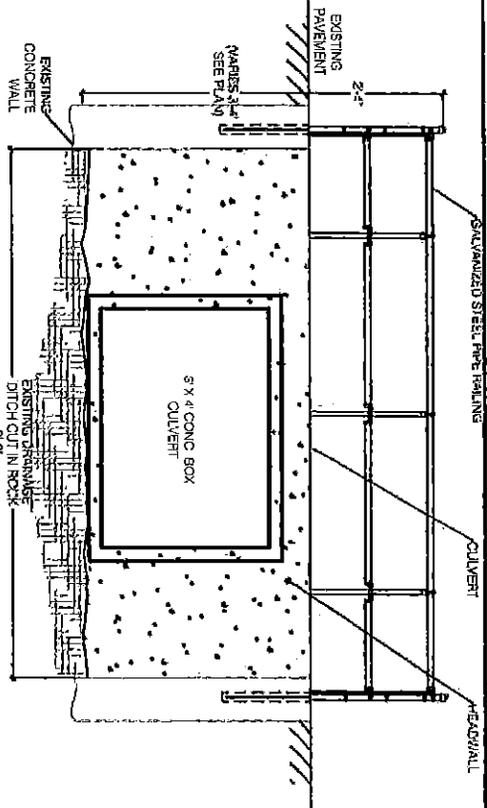
179310250



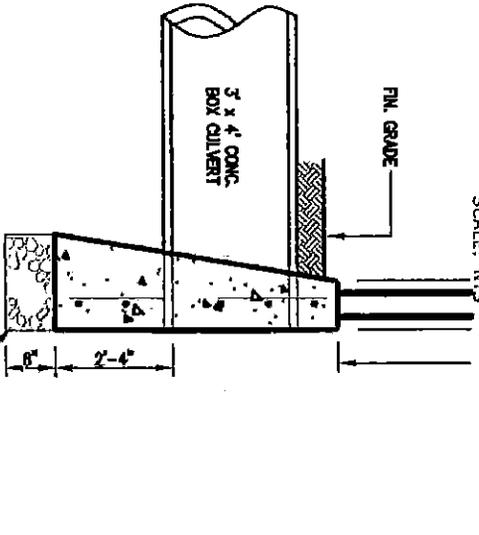
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PLAN VIEW
SCALE: 1" = 50'



HEADWALL SOUTH ELEVATION
SCALE: NTS



HEADWALL SECTION
SCALE: NTS

5/4/2018

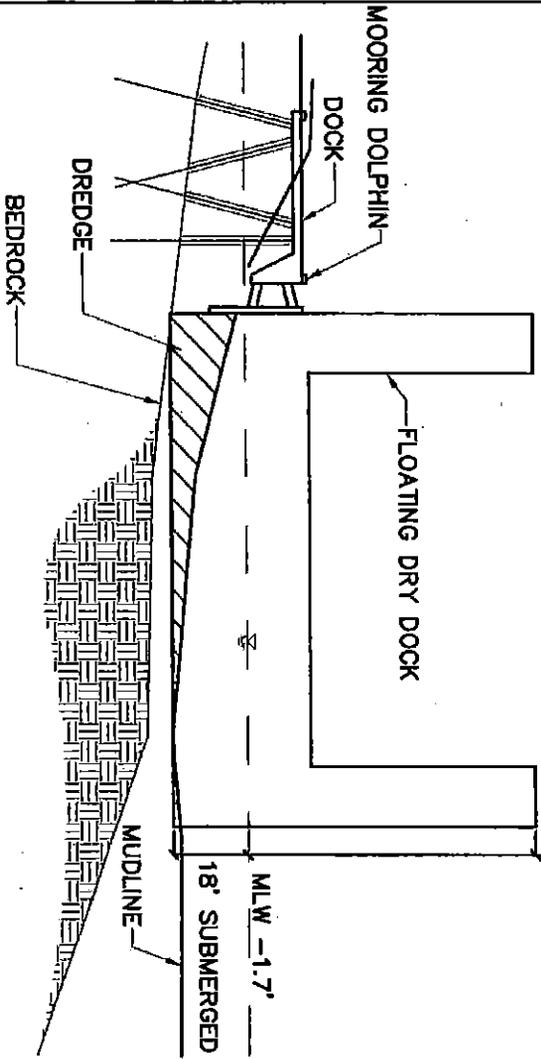
Client/Project
ELECTRIC BOAT
SOUTH YARD
75 EASTERN POINT RD, GROTON, CT 06340

Figure No.
C-307

Title
PROPOSED HEADWALL

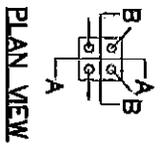


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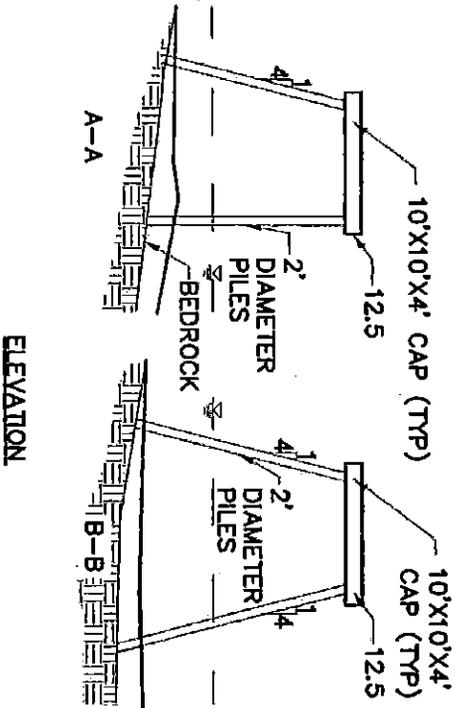


DOCK SECTION

SCALE: NTS



PLAN VIEW



ELEVATION

MOORING DOLPHIN

SCALE: NTS

Client/Project

ELECTRIC BOAT

SOUTH YARD

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Figure No.

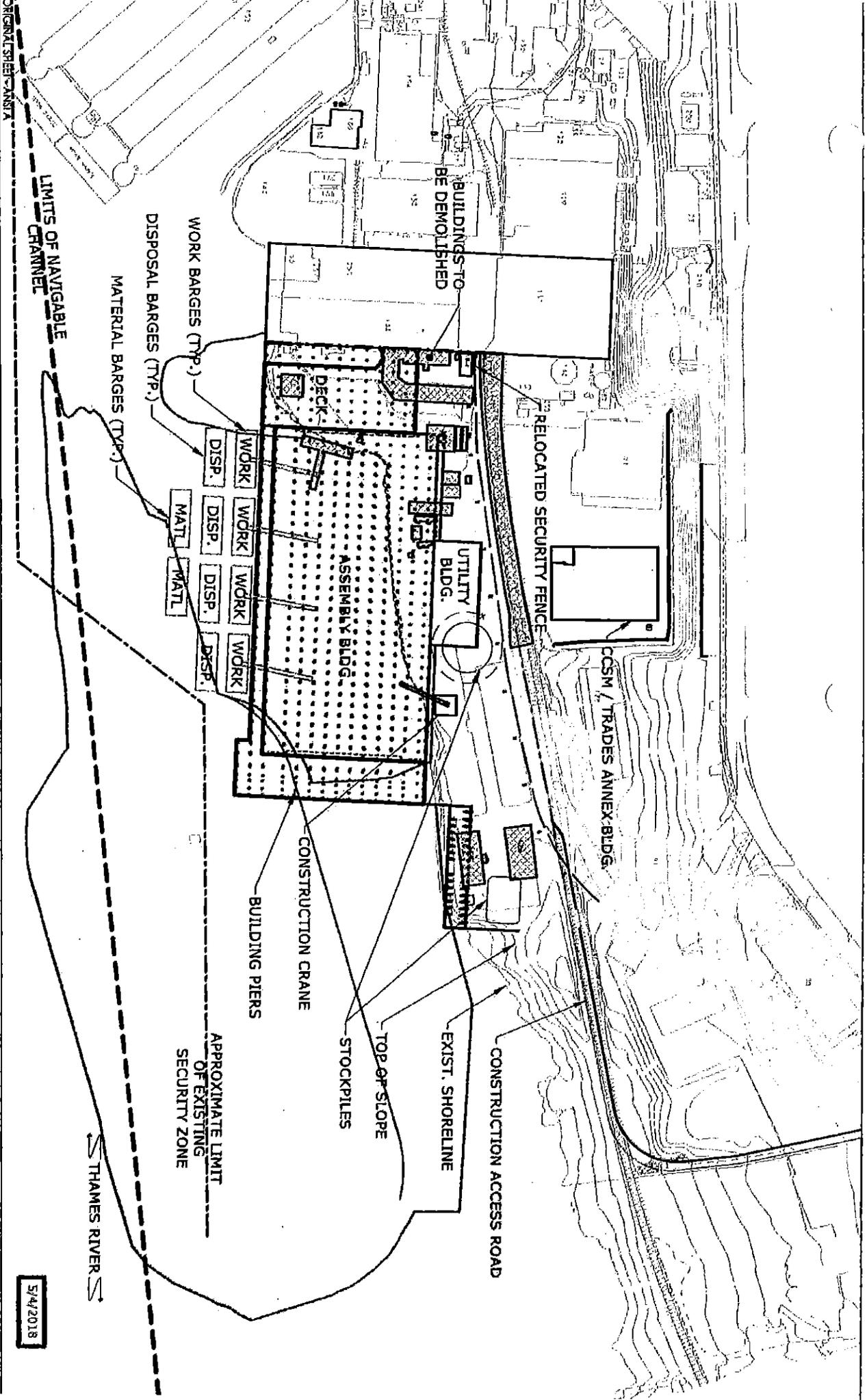
C-309

Title

MOORING DOLPHINS

179310250

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PLAN VIEW

SCALE: 1" = 200'



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ELECTRIC BOAT

SOUTH YARD

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Figure No.

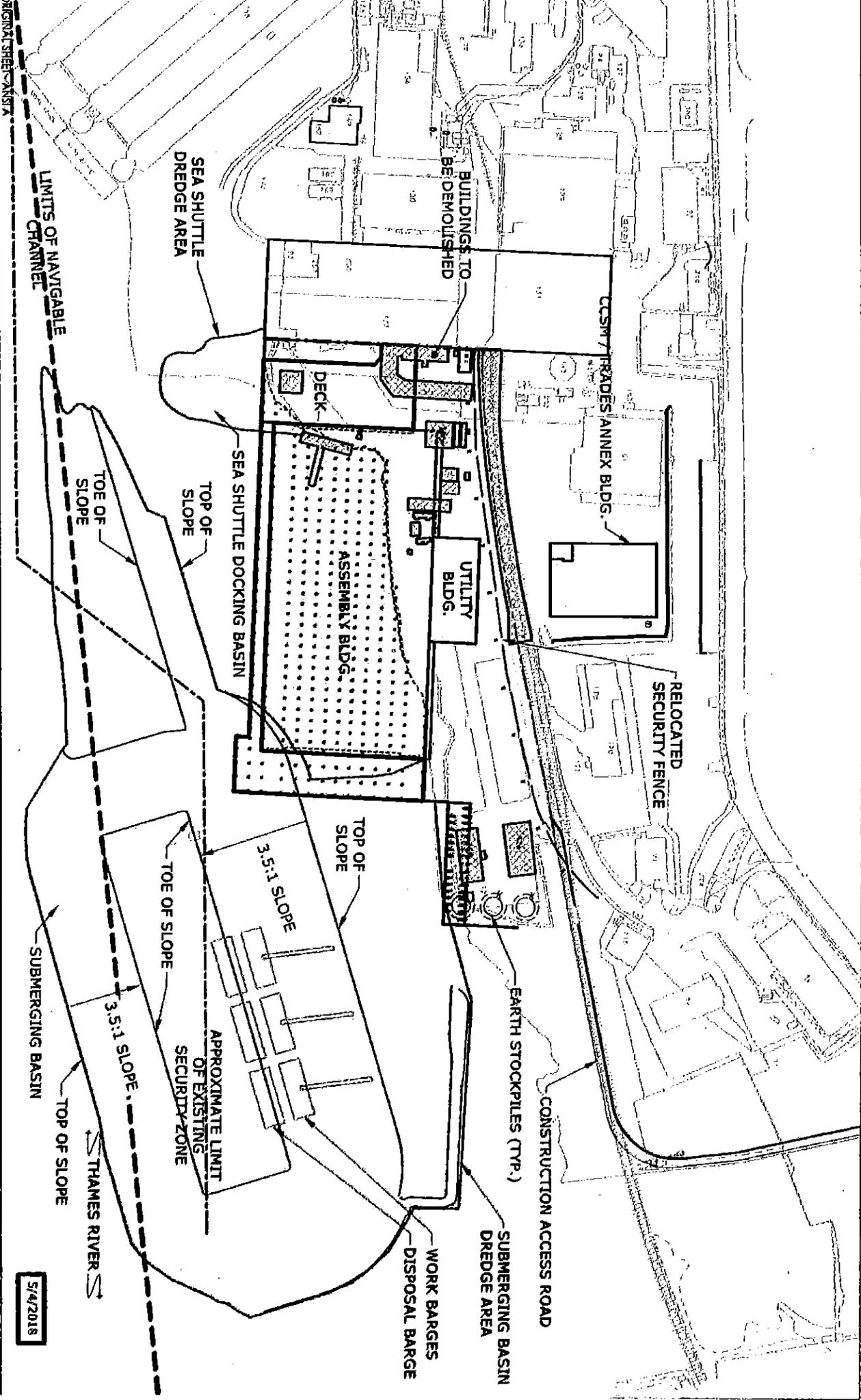
C-400

Title

STAGING PLAN - ASSEMBLY BUILDING

179010250

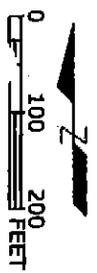
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PLAN VIEW

SCALE: 1"=200'



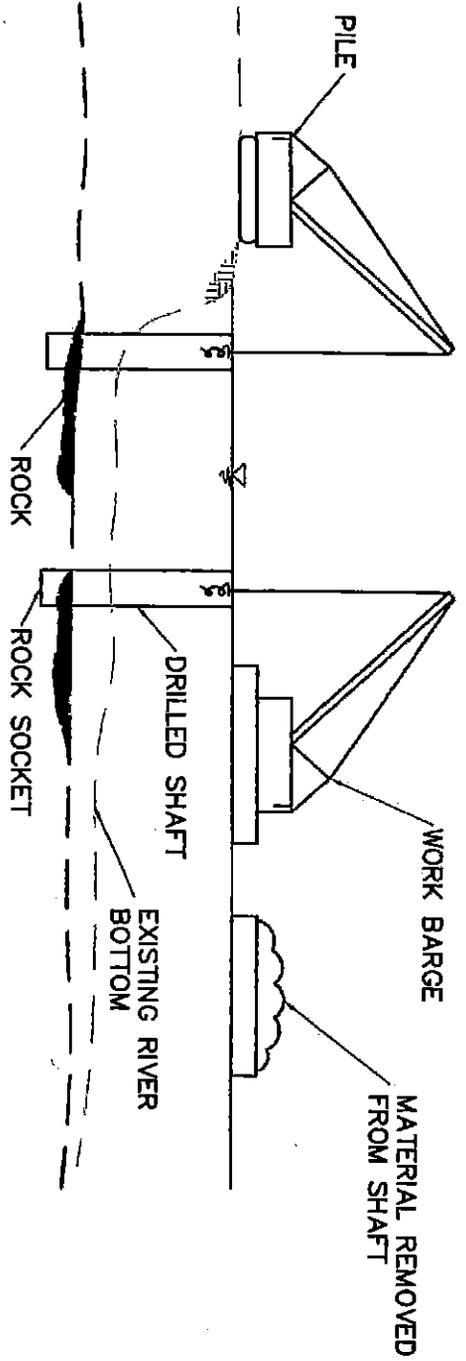
Client/Project: ELECTRIC BOAT SOUTH YARD
 75 EASTERN POINT RD, GROTON, CT 06340

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Figure No: C-401
 Title: STAGING PLAN - DREDGING PLAN

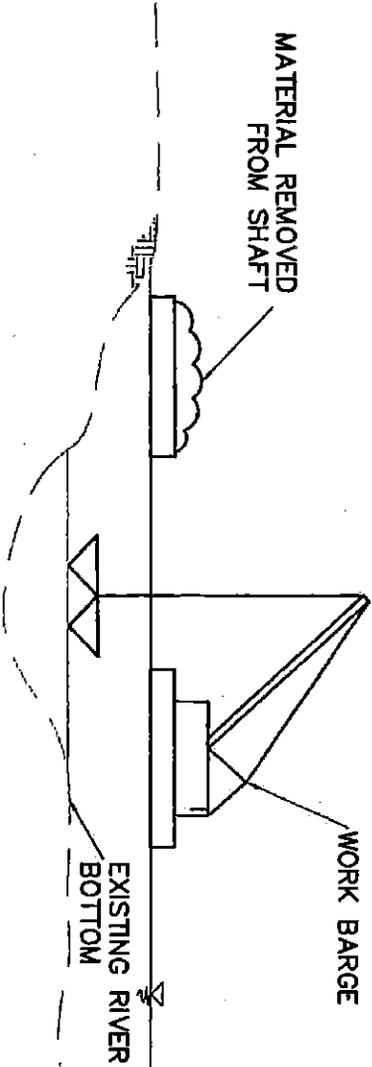


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INSTALLATION OF DRILLED SHAFTS

SCALE: NST



DREDGING OPERATION

SCALE: NST

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ELECTRIC BOAT

SOUTH YARD

75 EASTERN POINT RD, GROTON, CT 06340

Figure No.

C-402

179310280

Title

DRILLING AND DREDGING DETAILS

ACTIVITY 1 - PERMANENT FILL

SHORELINE STABILIZATION

SHORELINE STABILIZATION WILL INVOLVE THE CONSTRUCTION OF A BULKHEAD THAT PARALLELS PORTIONS OF THE EXISTING RIPRAP. SHORELINE STABILIZATION ACTIVITIES ARE EXPECTED TO BE COMPLETED IN THE FOLLOWING SEQUENCE:

- REMOVAL OF BEDROCK USING BLASTING METHODS AS PERMITTED.
- INSTALL SHEET PILE BULKHEAD WITHIN EXISTING RIPRAP SHORELINE. SHEET PILES TO BE PLACED USING A CRANE MOUNTED VIBRATORY HAMMER AND/OR OSCILLATING DRILL EQUIPMENT.
- DEWATER BULKHEAD IMPOUNDMENT BY PUMPING AND DISCHARGING INTO A SETTLING BASIN OR OTHER CONFINED STRUCTURE IN UPLAND AREAS PRIOR TO DISCHARGE INTO THAMES RIVER.
- INSTALL FILL BETWEEN BULKHEAD AND SHORE AND COMPLETE GRADING BEHIND BULKHEAD.
- DRILLED SHAFT INSTALLATION

THE OVER-WATER PORTIONS OF THE PROPOSED BUILDING/PIER INFRASTRUCTURE WILL BE SUPPORTED BY DRILLED SHAFTS THAT WILL BE FOUNDED ON SUBMERGED BEDROCK BELOW THE SUBSTRATE. DRILLED SHAFTS ARE ANTICIPATED TO BE INSTALLED ACCORDING TO THE FOLLOWING CONSTRUCTION SEQUENCE:

- DRILL SHAFTS THROUGH RIVER SUBSTRATES INTO BEDROCK USING AN OSCILLATING DRILL FROM BARGE-MOUNTED AND LAND-BASED DRILLING EQUIPMENT
- REMOVE SEDIMENT FROM SHAFTS USING AUGER, MECHANICAL AND/OR HYDRAULIC DREDGE METHODS.
- DISPOSE OF SEDIMENT VIA PLACEMENT AS FILL BEHIND THE PROPOSED BULKHEAD AND/OR OTHER APPROVED LOCATIONS.
- PLACE STRUCTURAL STEEL IN SHAFTS AND FILL WITH CONCRETE.

ACTIVITY 2 - CONSTRUCTION OF IN-WATER STRUCTURES

THE CONCRETE DECK WILL BE INSTALLED INCREMENTALLY IN SECTIONS AS THE DRILLED SHAFTS ARE INSTALLED. CONCRETE FOR THE DECK SECTIONS WILL BE PUMPED FROM LAND AND BARGE BASED EQUIPMENT.

SUBMARINE LAUNCHING WILL REQUIRE THAT THE FLOATING DRY DOCK MOVE FROM ITS RESTING POSITION ALONG THE THAMES RIVER SHORELINE TO THE SUBMERSION BASIN FOR A PERIOD OF APPROXIMATELY ONE MONTH PER YEAR UNTIL THE LAUNCH IS COMPLETED. THE DRY DOCK WILL REMAIN TETHERED WHILE IN THE LAUNCHING AND RESTING POSITION.

ACTIVITY 3 - DREDGING

DREDGING WILL BE COMPLETED PRIMARILY BY MECHANICAL METHODS AND WILL BE COMPLETED UTILIZING BEST MANAGEMENT PRACTICES (BMPs) TO MINIMIZE ADVERSE IMPACTS TO AQUATIC SPECIES. DREDGING IS BEING COMPLETED FOR THE FOLLOWING PURPOSES:

- DREDGING TO A CONTROLLING ELEVATION OF -22 FT NAVD88 FOR BERTHING OF THE FLOATING DRY DOCK IN THE RESTING POSITION ALONG THE SHORELINE AND THE SEA SHUTTLE ALONG THE WESTERN SIDE OF THE PROPOSED BUILDING / PIER INFRASTRUCTURE.
- DREDGING TO A CONTROLLING ELEVATION OF -42 FT NAVD88 FOR BERTHING OF SUPPORT AND TRANSPORT VESSEL ALONG THE WESTERN SIDE OF THE PROPOSED BUILDING/PIER.
- CREATION OF A DEEP BASIN FOR THE FLOATING DRY DOCK TO LAUNCH SUBMARINES. THIS WILL REQUIRE DREDGING TO A CONTROLLING DEPTH OF -87 FT NAVD88 TO ACCOMMODATE THE FOOTPRINT OF THE FLOATING DRY DOCK WITH AN ASSUMED 3.5:1 SIDE SLOPE.

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SOUTH YARD
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Figure No. C-403

This CONSTRUCTION NARRATIVE