



CITY OF VIRGINIA BEACH
DEPARTMENT OF PUBLIC WORKS
ENGINEERING

HARBOUR POINT SSD - CIP #8-504
DREDGING PROJECTS
BID NUMBER: PWCN-

INDEX OF SHEETS

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HARBOUR POINT SSD DREDGING PROJECT	
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SL6	7 DETAILS AND SECTIONS

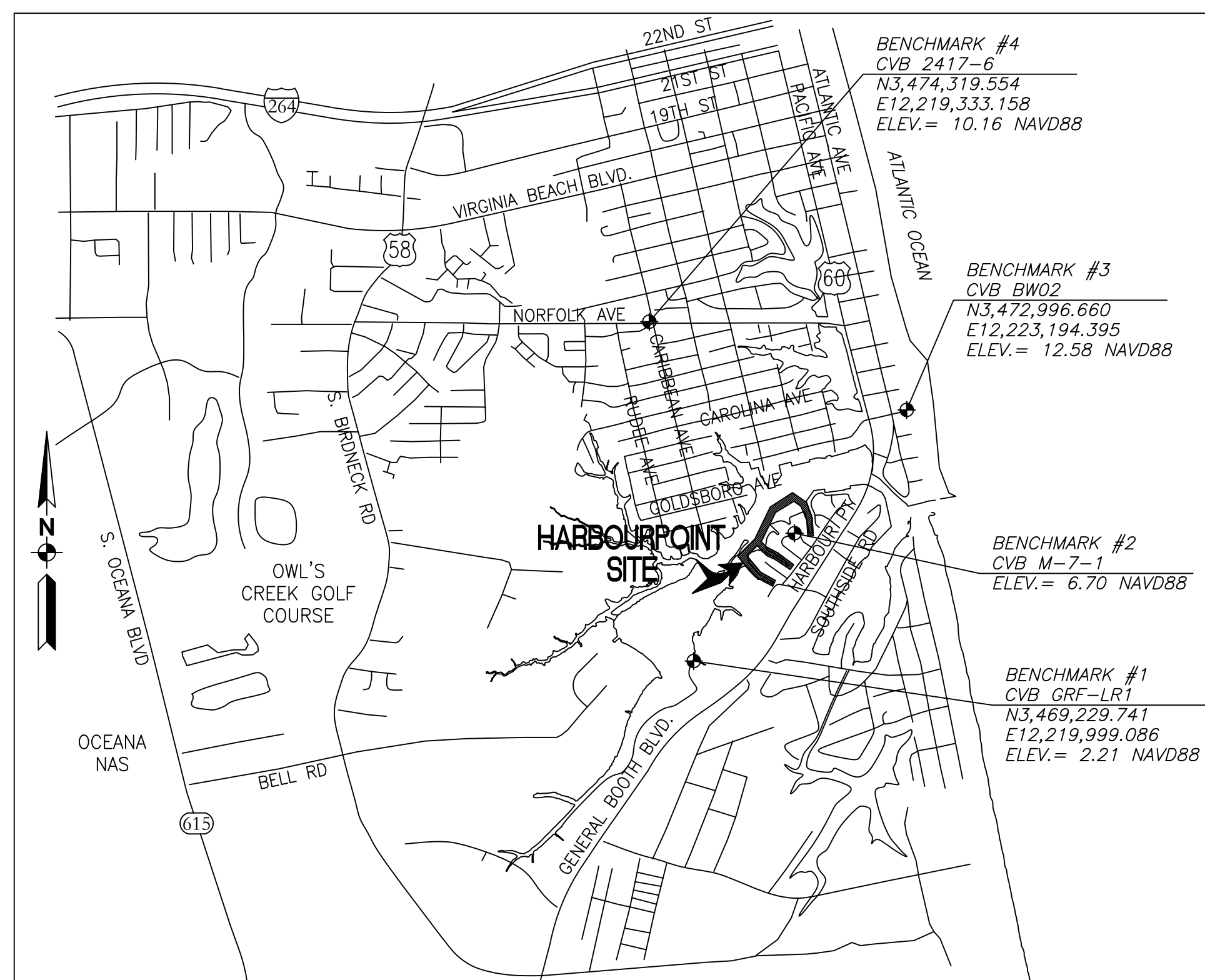
Langley & McDonald, Inc

SURVEY NOTES

1. THIS SURVEY "HARBOUR POINT SSD DREDGING PROJECT CIP #8-504 PWCN-" WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF BATH ANNE G. CAMPBELL (VA LIS #003316) FROM AN ACTUAL GROUND SURVEY MADE UNDER MY DIRECT SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED BETWEEN 04-16-23 AND 05-01-23 AND THAT THIS PLAN, MAP OR DIGITALLY PROVIDED GEOSPATIAL DATA, INCLUDING METADATA, MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. THE REFERENCE MERIDIAN IS BASED ON THE VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 1983/1986. US SURVEY FEET. HORIZONTAL AND VERTICAL CONTROL ESTABLISHED VIA GPS "ONE-STEP" ON THE LEICA SMART-NET NETWORK USING CITY OF VIRGINIA BEACH CONTROL MONUMENTS PS118, 2417-6, BW02, M-7-1, GRF-LR1, AND 2416-1. VERTICAL DATUM WAS CONVERTED TO MLW WITH A DIFFERENCE OF (+2.14') USING THE DATUM CONVERSION INFORMATION PROVIDED ON CITY OF VIRGINIA BEACH PLANS FOR THE RUDEE LOOP AND HARBOUR WALK RENOVATIONS.
3. SOUNDINGS WERE OBTAINED WITH A SONARITE MILSPEC ECHO SOUNDER OPERATING AT 200 KHz. ADDITIONAL SUPPLEMENTAL DATA WAS COLLECTED WITH LEICA VIVA RTK GPS AND TOTAL STATIONS.
4. PROPERTY LINES INDICATED HEREON ARE BASED ON MINIMAL FOUND FIELD MONUMENTATION AS RELATED TO PLATS AND MAPS OF RECORD FOR PROPERTIES IN OR NEAR THE SURVEY AREA. IN SOME INSTANCES, CITY MAPPING HAS BEEN USED TO SUPPLEMENT MISSING OR AMBIGUOUS DATA.
5. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT FOR ALL PARCELS INDICATED HEREON.
6. THIS FIRM MADE NO ATTEMPT TO LOCATE UNDERGROUND UTILITIES.
7. THESE ELEVATIONS REPRESENT ONLY THE CONDITIONS AT THIS LOCATION AND ON THE DATE SHOWN AND DO NOT GUARANTEE THE CONDITION AT OTHER AREAS OR DATES SUBSEQUENT TO THIS SURVEY.

CITY SIGNATURE BLOCK

APPROVED _____	DATE _____
CITY ENGINEER	
APPROVED _____	DATE _____
DIRECTOR OF DEPARTMENT OF PUBLIC WORKS	
APPROVED _____	DATE _____
PUBLIC WORKS OPERATIONS ENGINEER	
APPROVED _____	DATE _____
REAL ESTATE	




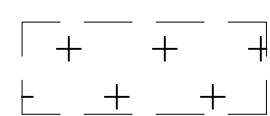

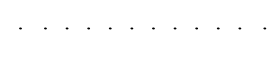






VICINITY MAP

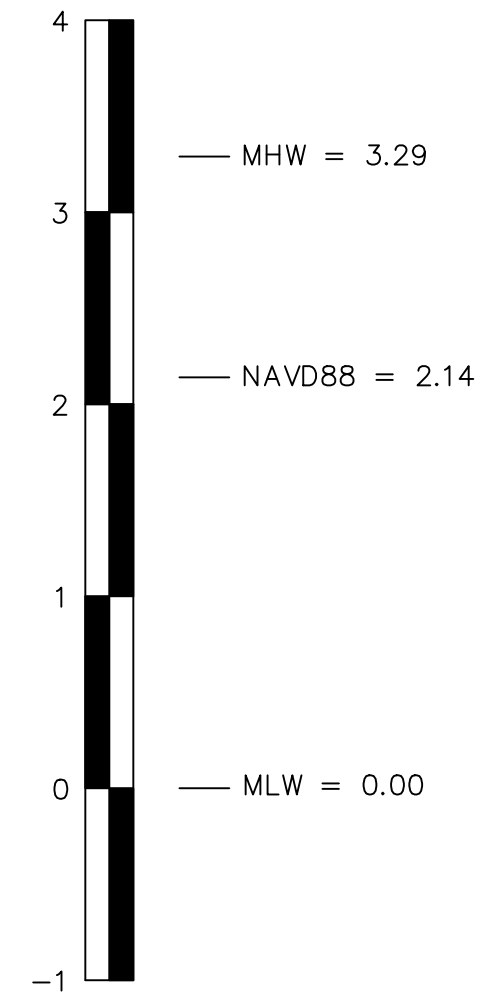
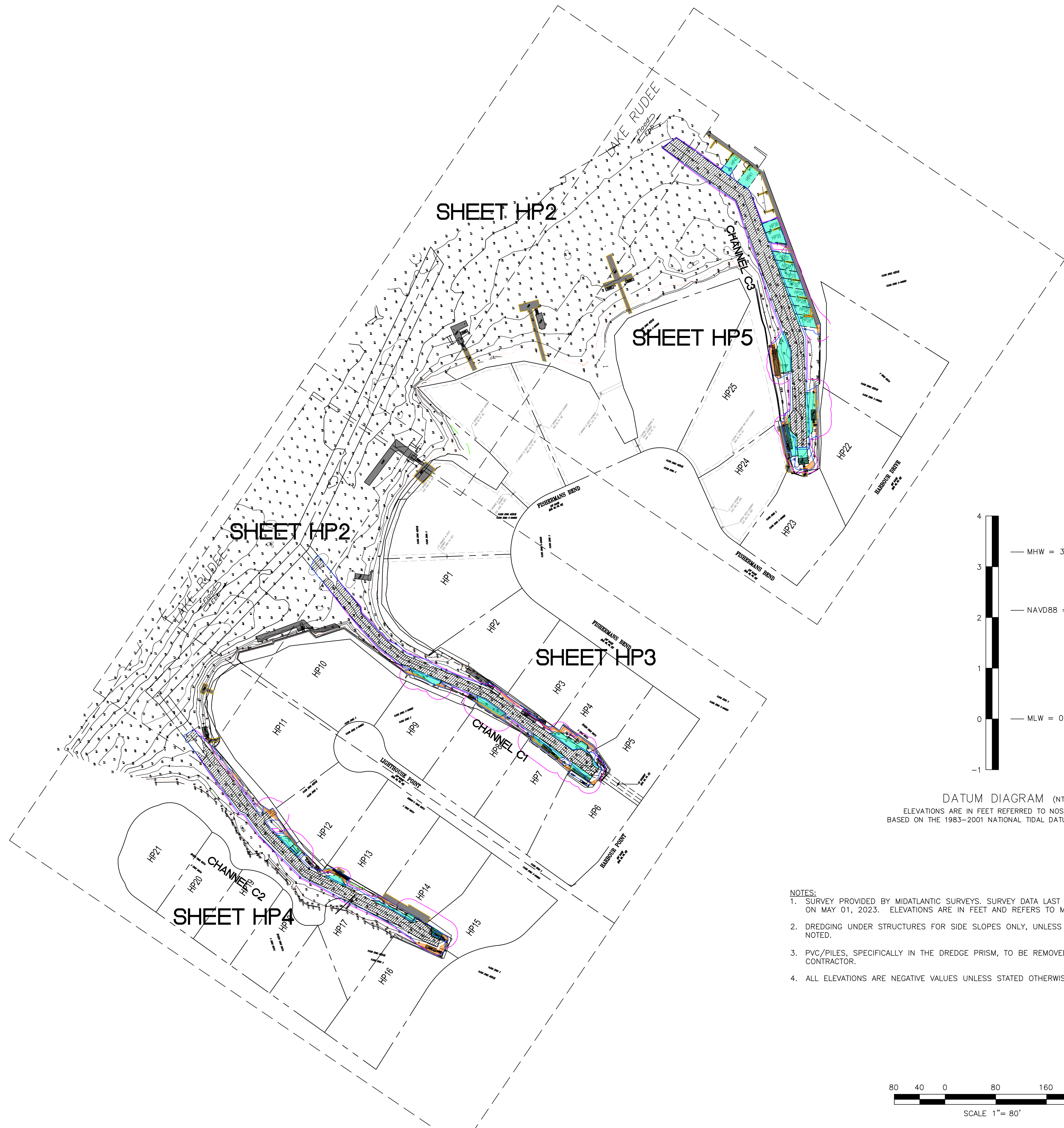
SCALE: 1"=1800'

JULY 17, 2023

Langley & McDonald, Inc
Engineering • Planning • Surveying
309 Lynnhaven Parkway
Virginia Beach, VA 23452
PH: (757) 463-4306 FAX: (757) 463-3563

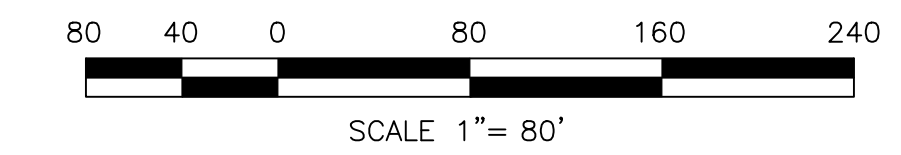
-  SSD CHANNEL AREA TO BE DREDGED TO -4.0 MLW (+0.5' OVERDREDGE)
-  RESIDENT ACCESS BASIN TO BE DREDGED TO DEPTH -4.0 MLW (+0.5' OVERDREDGE)
-  TIDAL NON-VEGETATED WETLANDS (T.N.V.W.) IMPACT AREAS
-  4X BUFFER ENCROACHMENT
-  PIER
-  MLW
-  EDGE OF MARSH
-  PROPERTY LINE
-  PROPOSED 2X BUFFER
-  PROPOSED 4X BUFFER

- ABBREVIATION**
- MHW MEAN HIGH WATER
 - MLW MEAN LOW WATER
 - MLLW MEAN LOWER LOW WATER
 - MTR MEAN TIDE RANGE
 - C.Y. CUBIC YARD
 - M.B. MAP BOOK
 - PG. PAGE
 - ELEV. ELEVATION
 - ROW RIGHT OF WAY
 - P5 PARTICIPANT PARCEL NUMBER
 - SSD SPECIAL SERVICE DISTRICT
 - STA STATION
 - P.I. POINT OF INTERSECTION
 - E.P. END POINT
 - O.A. OVERALL
 - BH BULKHEAD
 - TB TOP OF BANK
 - WDS WETLANDS
 - LSA LANDSCAPE AREA
 - CONC CONCRETE
 - INV INVERT
 - CMP CORRUGATED METAL PIPE
 - TS TOE OF SLOPE



DATUM DIAGRAM (NTS)
ELEVATIONS ARE IN FEET REFERRED TO NOS MLW
BASED ON THE 1983-2001 NATIONAL TIDAL DATUM EPOCH

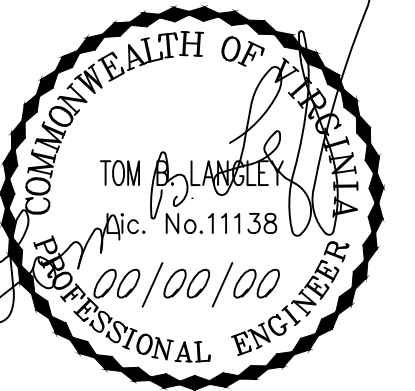
- NOTES:**
1. SURVEY PROVIDED BY MIDATLANTIC SURVEYS. SURVEY DATA LAST COLLECTED ON MAY 01, 2023. ELEVATIONS ARE IN FEET AND REFERS TO MLW=0
 2. DREDGING UNDER STRUCTURES FOR SIDE SLOPES ONLY, UNLESS OTHERWISE NOTED.
 3. PVC/PILES, SPECIFICALLY IN THE DREDGE PRISM, TO BE REMOVED BY CONTRACTOR.
 4. ALL ELEVATIONS ARE NEGATIVE VALUES UNLESS STATED OTHERWISE.

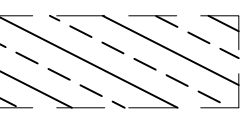


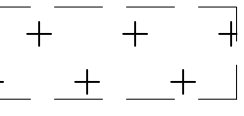




REVISION:	
DATE:	

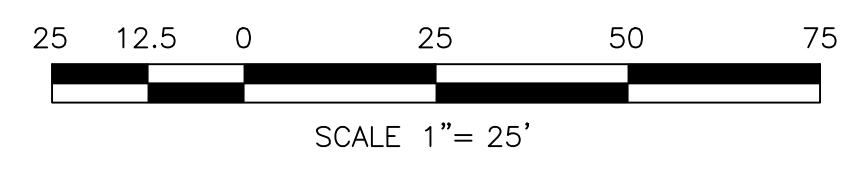
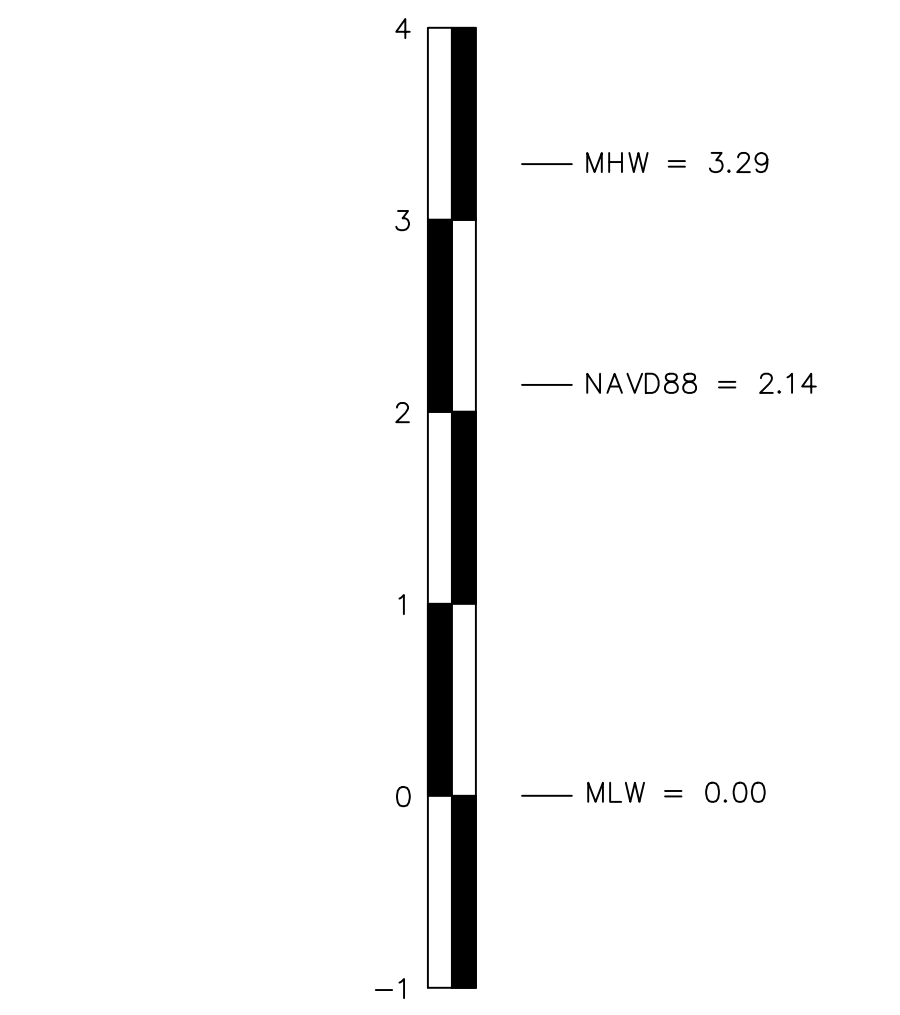
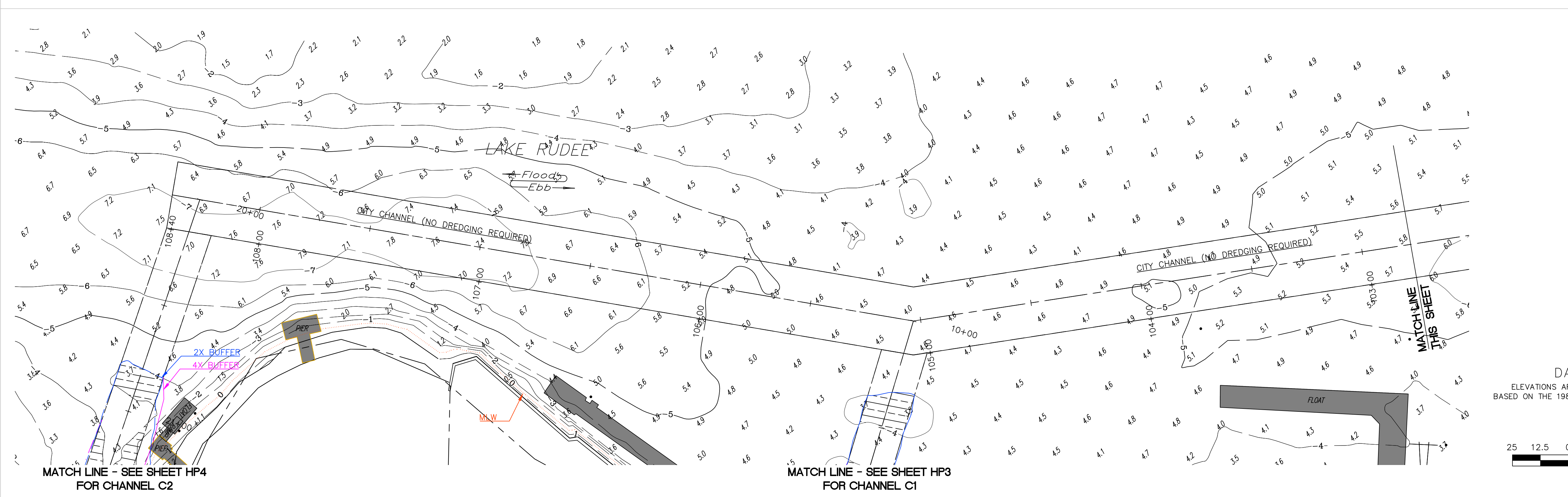
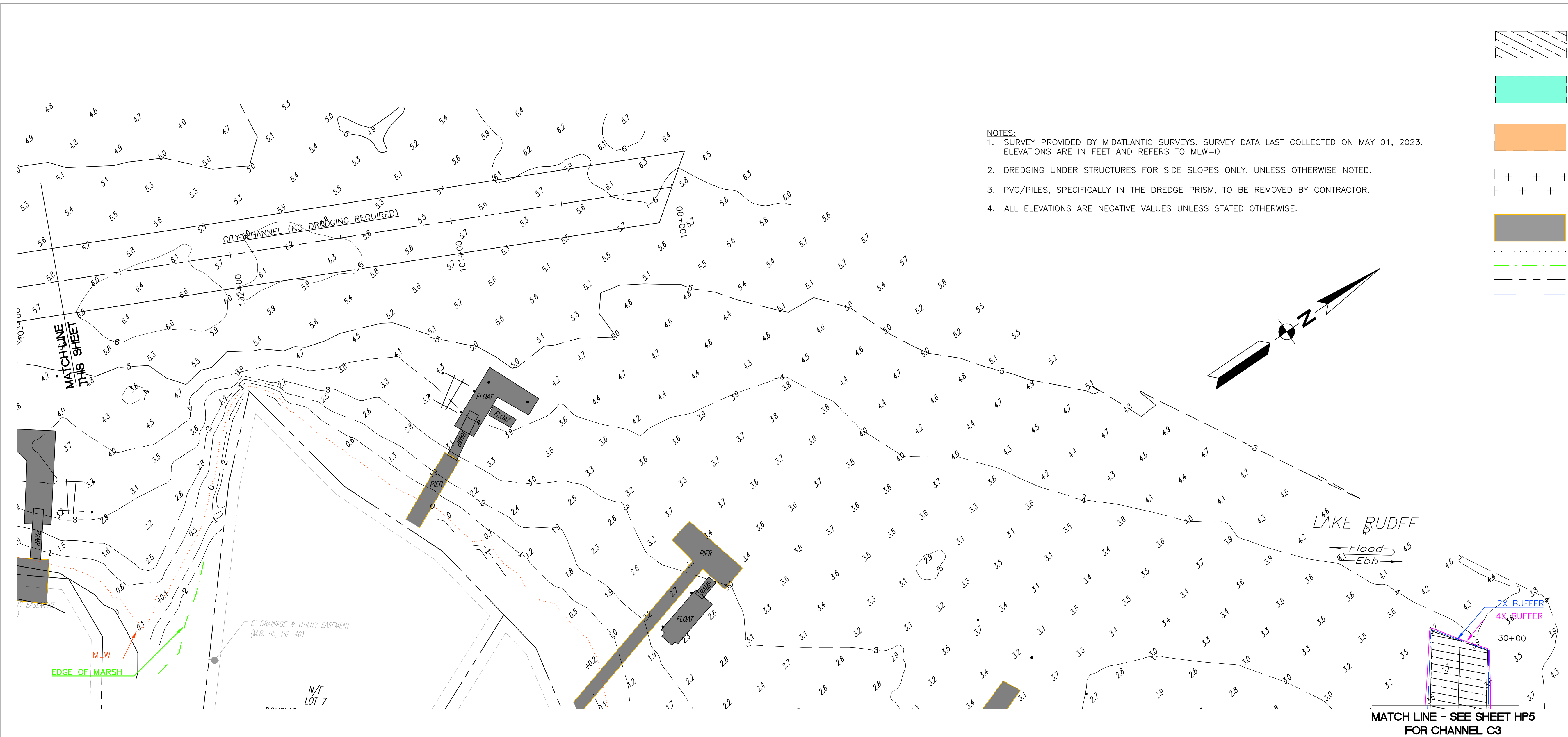
HARBOUR POINT
SSD DREDGING PROJECT
 SHEET INDEX AND CITY & SSD CHANNEL
 COORDINATES LAYOUT
 FOR
 CITY OF VIRGINIA BEACH
 VIRGINIA BEACH, VIRGINIA

DESIGNED:	TBL
DRAWN:	BMH
CHECKED:	TBL
SCALE:	1"=80'
DATE:	07/17/23
FILE:	HARBOURPOINT-JPA
PROJ. #:	2011-019-26
SHEET NO.	



-  SSD CHANNEL AREA TO BE DREDGED TO -4.0 MLW (+0.5' OVERDREDGE)
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-  PIER
-  MLW
-  EDGE OF MARSH
-  PROPERTY LINE
-  PROPOSED 2X BUFFER
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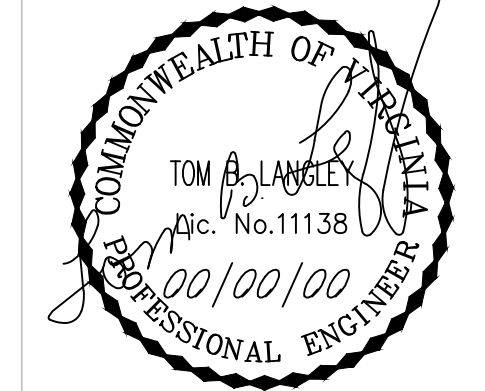
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REVISION:
 DATE:

HARBOUR POINT
SSD DREDGING PROJECT
 CITY CHANNEL - LAYOUT PLAN
 STA. 100+00 TO STA. 108+40
 FOR CITY OF VIRGINIA BEACH

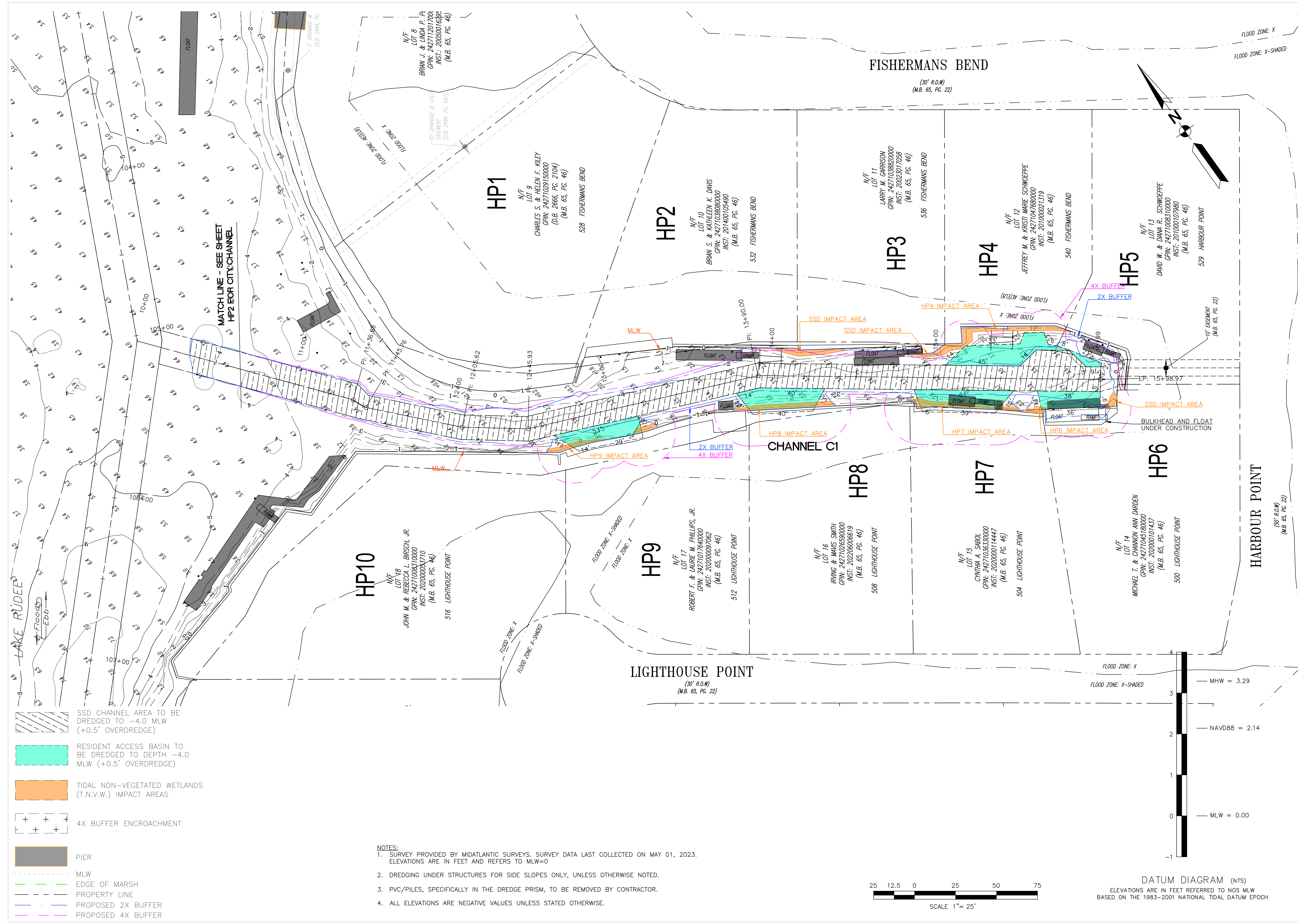
DESIGNED: TBL
 DRAWN: BMH
 CHECKED: TBL
 SCALE: 1"=25'
 DATE: 07/17/23
 FILE: HARBOURPOINT-JPA
 PROJ. #: 2011-019-26
 SHEET NO.



REVISION:	
DATE:	

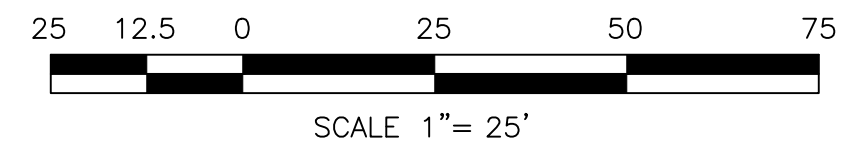
HARBOUR POINT
SSD DREDGING PROJECT
 CHANNEL C1 - LAYOUT PLAN STA. 10+00 TO STA. 16+15.56
 FOR
 CITY OF VIRGINIA BEACH
 VIRGINIA

DESIGNED:	TBL
DRAWN:	BMH
CHECKED:	TBL
SCALE:	1"=25'
DATE:	07/17/23
FILE:	HARBOURPOINT-JPA
PROJ. #:	2011-019-26
SHEET NO.	

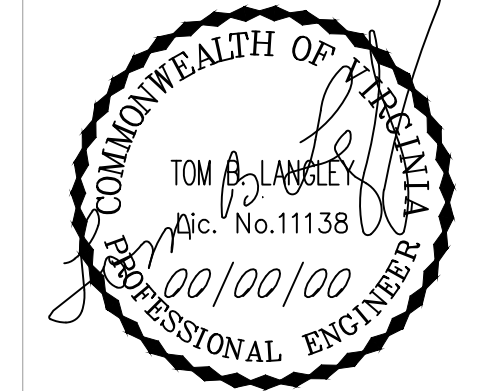


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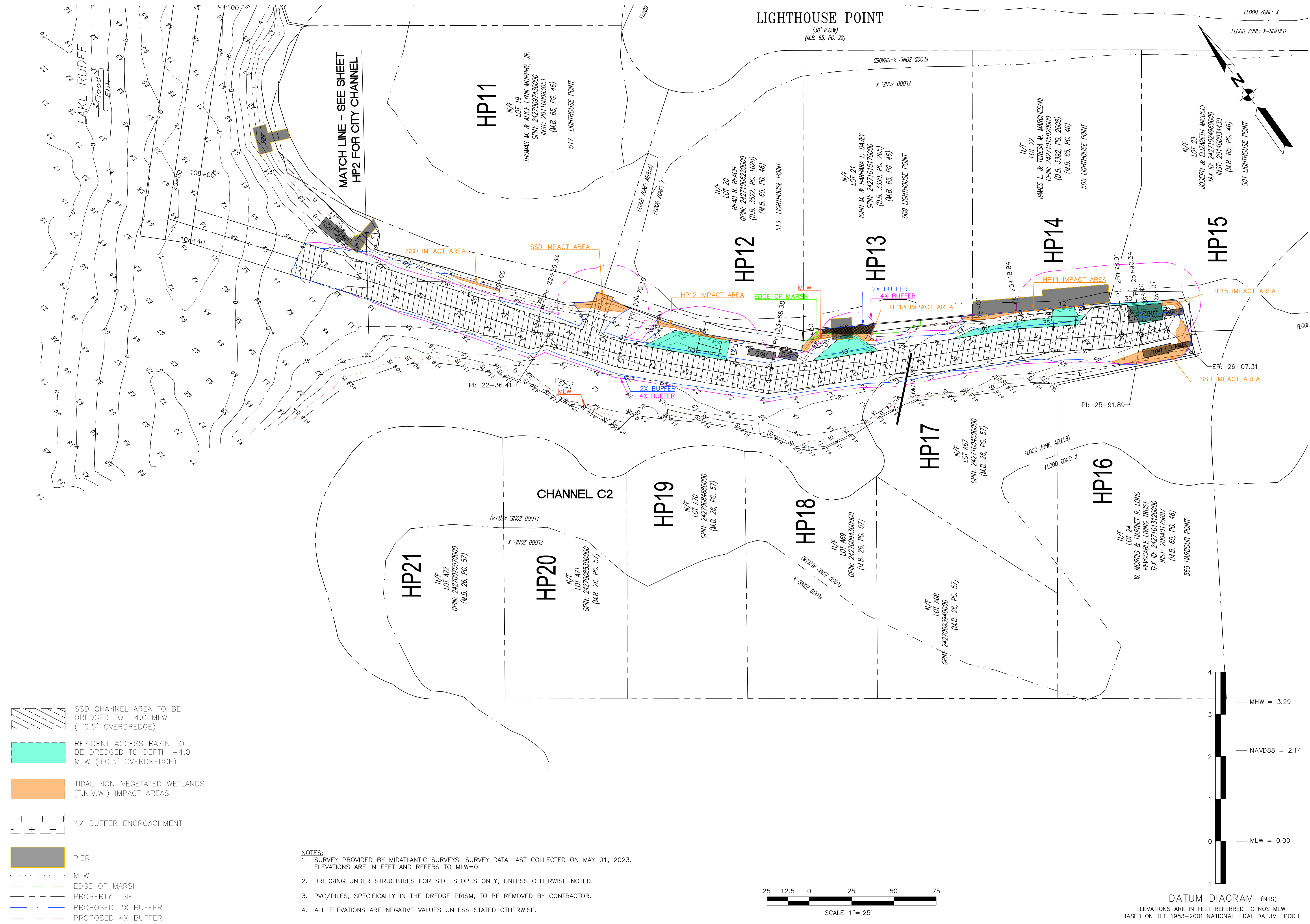


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DATE:	

DATE: _____

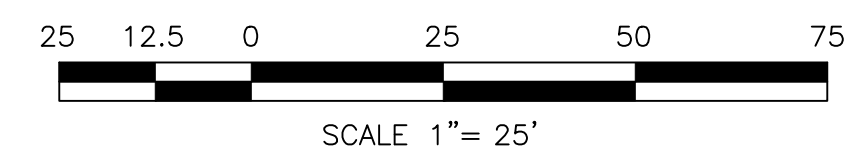
**HARBOUR POINT
 SSD DREDGING PROJECT**
 CHANNEL C2 - LAYOUT PLAN STA. 20+00 TO STA. 26+20.78
 FOR
 CITY OF VIRGINIA BEACH
 VIRGINIA

DESIGNED:	TBL
DRAWN:	BMH
CHECKED:	TBL
SCALE:	1"=25'
DATE:	07/17/23
FILE:	HARBOURPOINT-JPA
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SHEET NO.	



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DATUM DIAGRAM (NTS)
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LIGHTHOUSE POINT
 (30' R.O.W)
 (M.B. 65, PG. 22)

FLOOD ZONE: X
 FLOOD ZONE: X-SHADED

HP11
 N/F LOT 19
 THOMAS M. & ALICE LYNN MURPHY, JR.
 GPN: 24270087430000
 INST: 201700083051
 (M.B. 65, PG. 46)
 517 LIGHTHOUSE POINT

HP12
 N/F LOT 20
 BRAD R. BEACH
 GPN: 24271006220000
 (D.B. 3522, PG. 1628)
 (M.B. 65, PG. 46)
 513 LIGHTHOUSE POINT

HP13
 N/F LOT 21
 JOHN M. & BARBARA L. DONEY
 GPN: 24271015170000
 (D.B. 3390, PG. 205)
 (M.B. 65, PG. 46)
 509 LIGHTHOUSE POINT

HP14
 N/F LOT 22
 JAMES L. & TERESA M. MARCHESANI
 GPN: 24271015920000
 (D.B. 3392, PG. 2008)
 (M.B. 65, PG. 46)
 505 LIGHTHOUSE POINT

HP15
 N/F LOT 23
 JOSEPH & ELIZABETH MICUCCI
 TAX ID: 24271024960000
 INST: 201400034430
 (M.B. 65, PG. 46)
 501 LIGHTHOUSE POINT

HP21
 N/F LOT A12
 GPN: 24270073570000
 (M.B. 26, PG. 57)

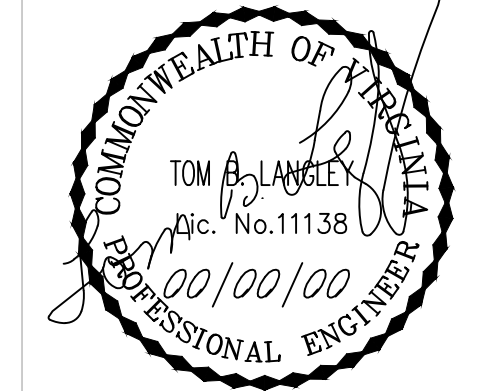
HP20
 N/F LOT A71
 GPN: 24270085300000
 (M.B. 26, PG. 57)

HP19
 N/F LOT A10
 GPN: 24270084680000
 (M.B. 26, PG. 57)

HP18
 N/F LOT A69
 GPN: 24270094330000
 (M.B. 26, PG. 57)

HP17
 N/F LOT A67
 GPN: 24271004500000
 (M.B. 26, PG. 57)

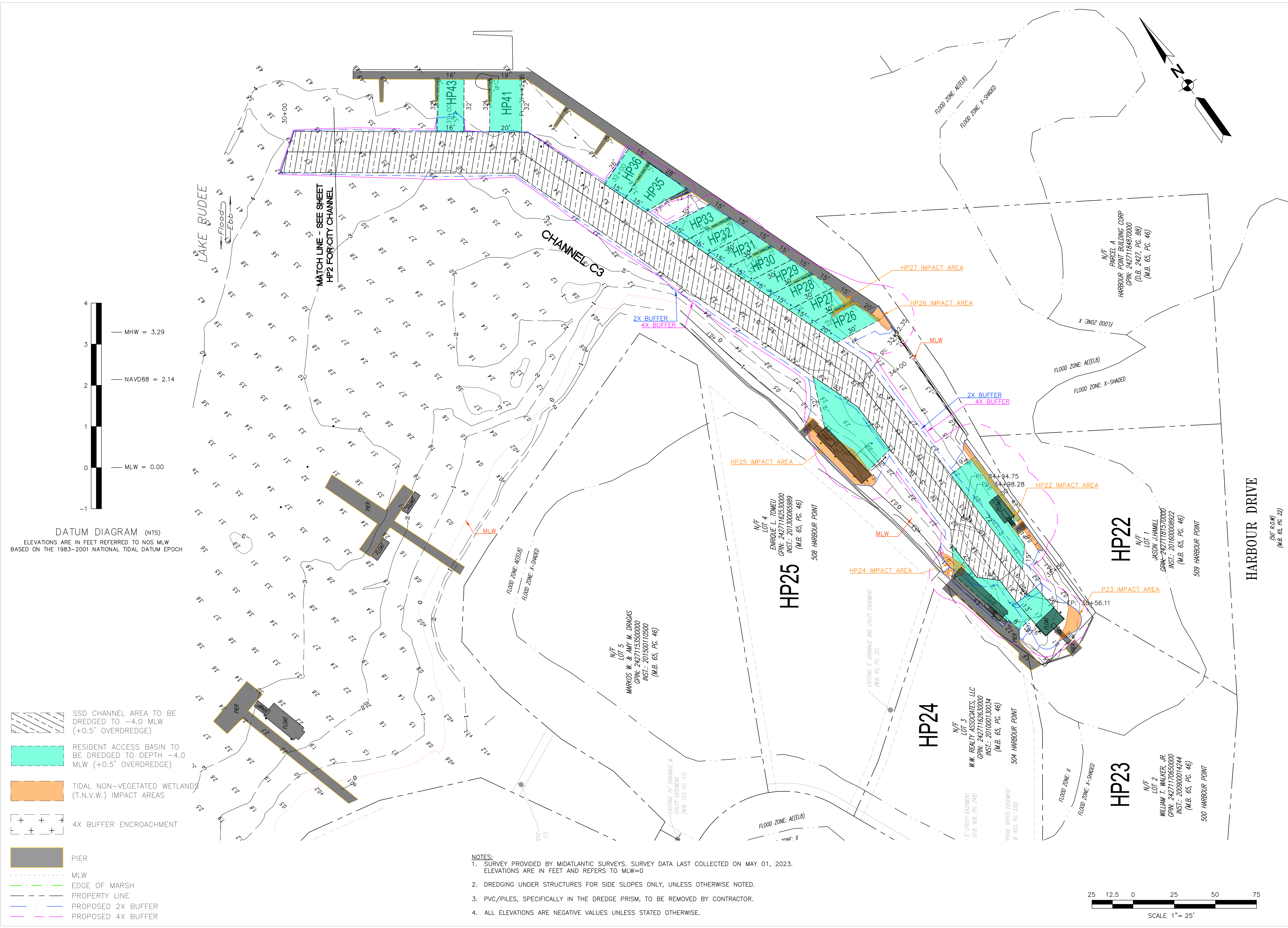
HP16
 N/F LOT 24
 W. MORRIS & HARRIET R. LONG
 REVOCABLE LIVING TRUST
 TAX ID: 24271013120000
 INST: 20040175697
 (M.B. 65, PG. 46)
 565 HARBOUR POINT

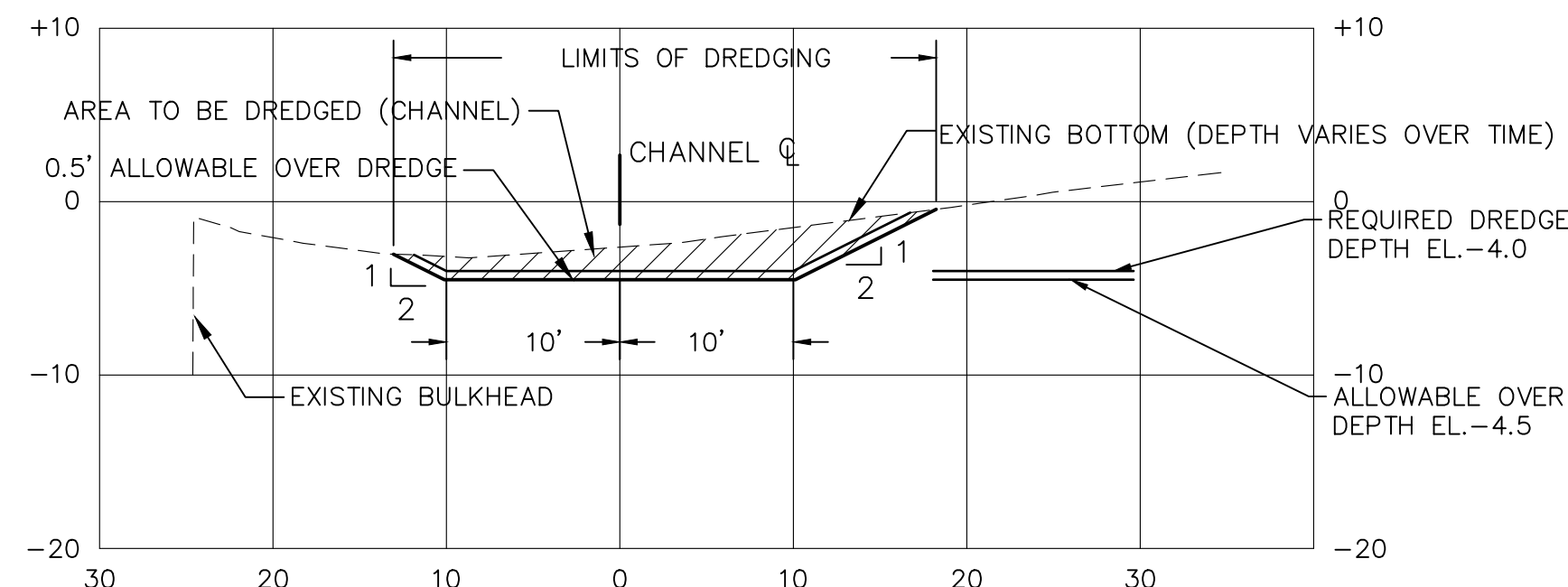


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DATE:	

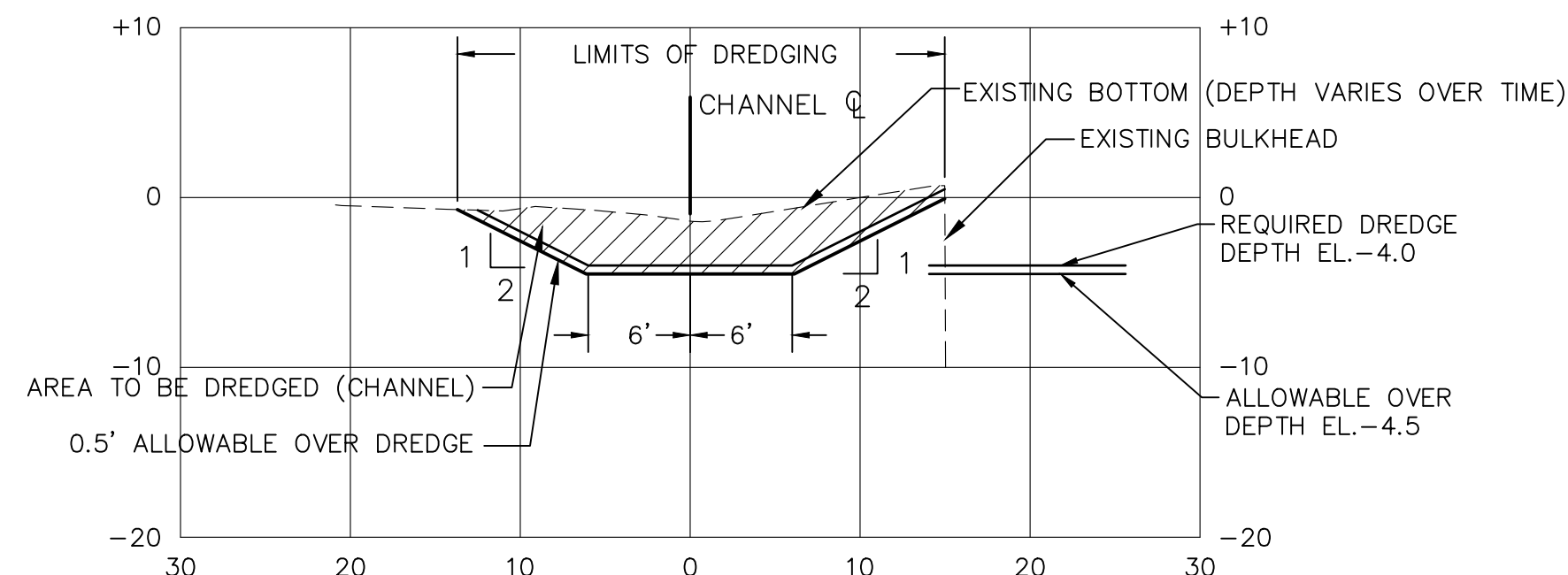
HARBOUR POINT
SSD DREDGING PROJECT
 CHANNEL C3 - LAYOUT PLAN STA. 30+00 TO STA. 36+02.43
 FOR
 CITY OF VIRGINIA BEACH
 VIRGINIA BEACH, VIRGINIA

DESIGNED:	TBL
DRAWN:	BMH
CHECKED:	TBL
SCALE:	1"=25'
DATE:	07/17/23
FILE:	HARBOURPOINT-JPA
PROJ. #:	2011-019-26
SHEET NO.	

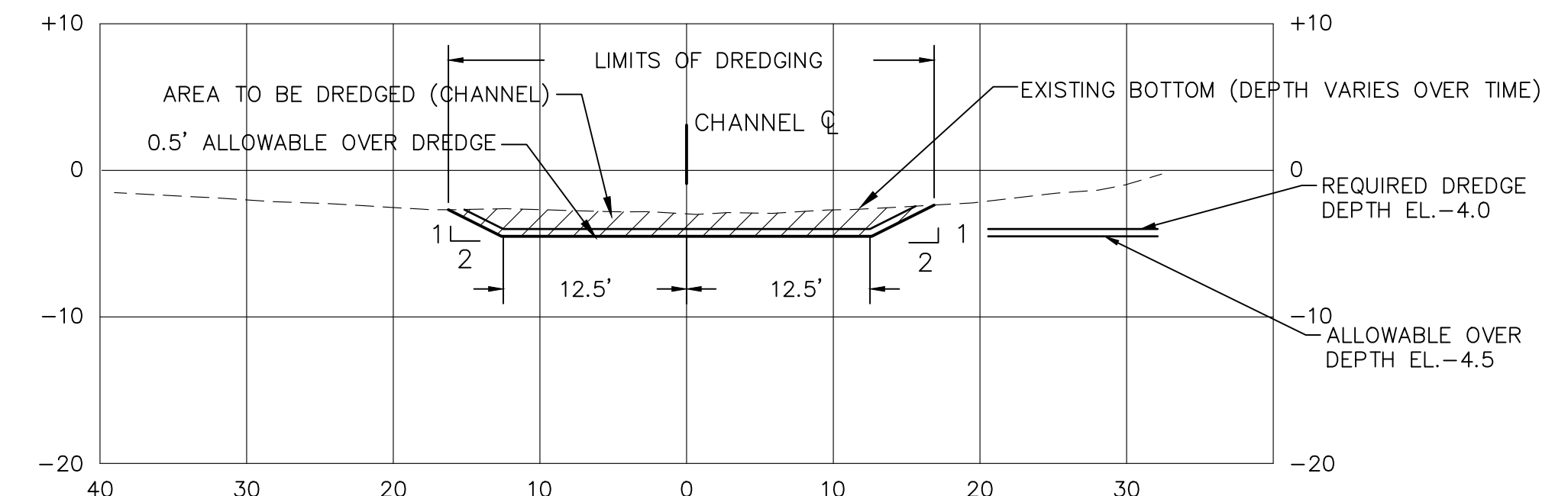




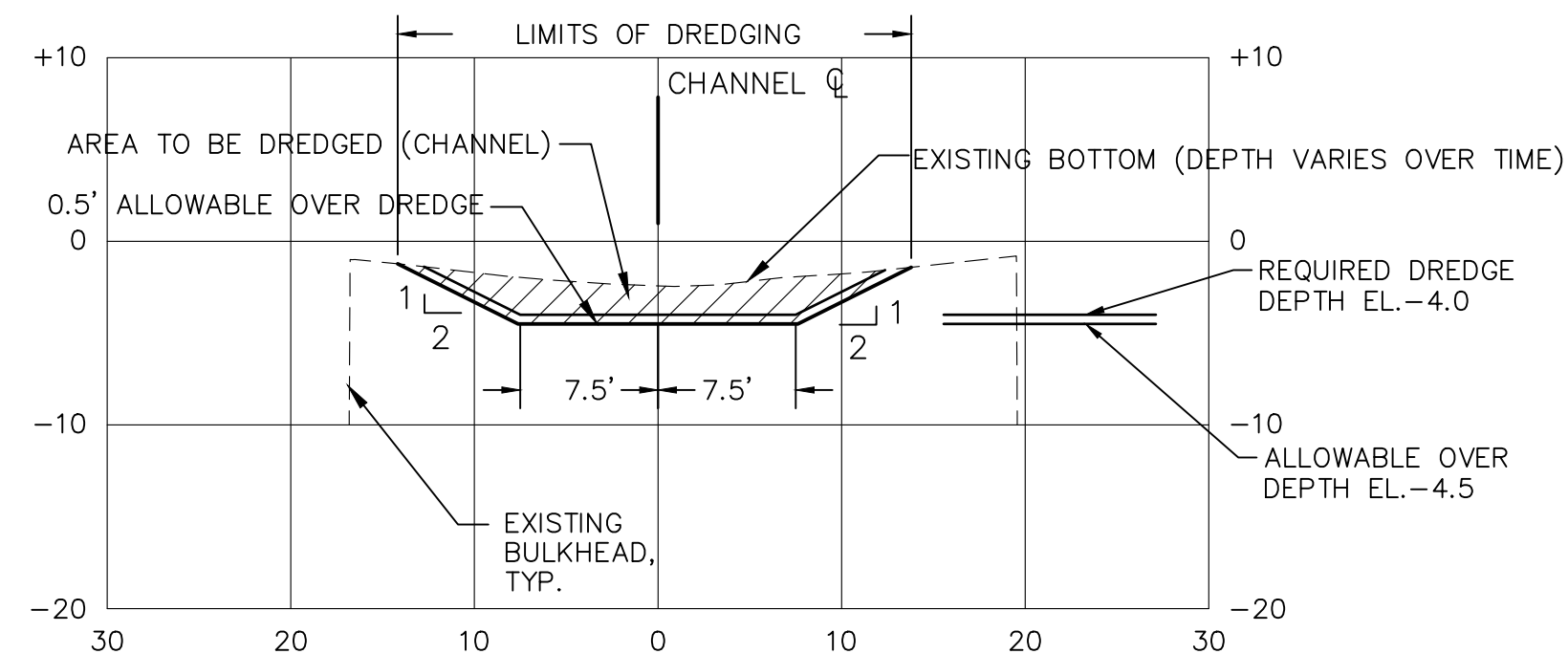
TYPICAL DREDGING SECTION A-A
CHANNEL C1 STA. 10+15.11 THRU 11+36.66
CHANNEL C2 STA. 20+15.19 THRU 22+26.34
CHANNEL C3 STA. 34+01.86 THRU 34+94.75
(CHANNEL C2 STA. 22+00 SHOWN)



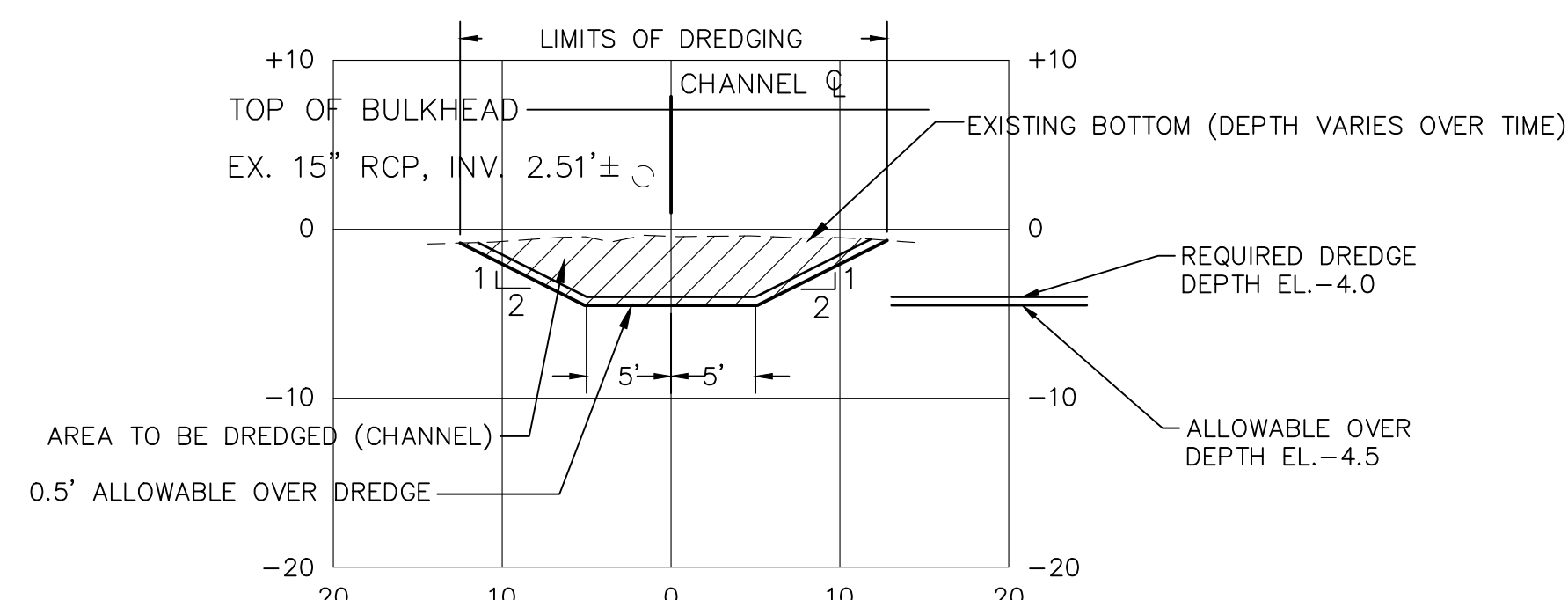
TYPICAL DREDGING SECTION D-D
CITY CHANNEL AT C2 STA. 25+91.89 THRU 26+07.31
(CHANNEL C2 STA. 26+10 SHOWN)



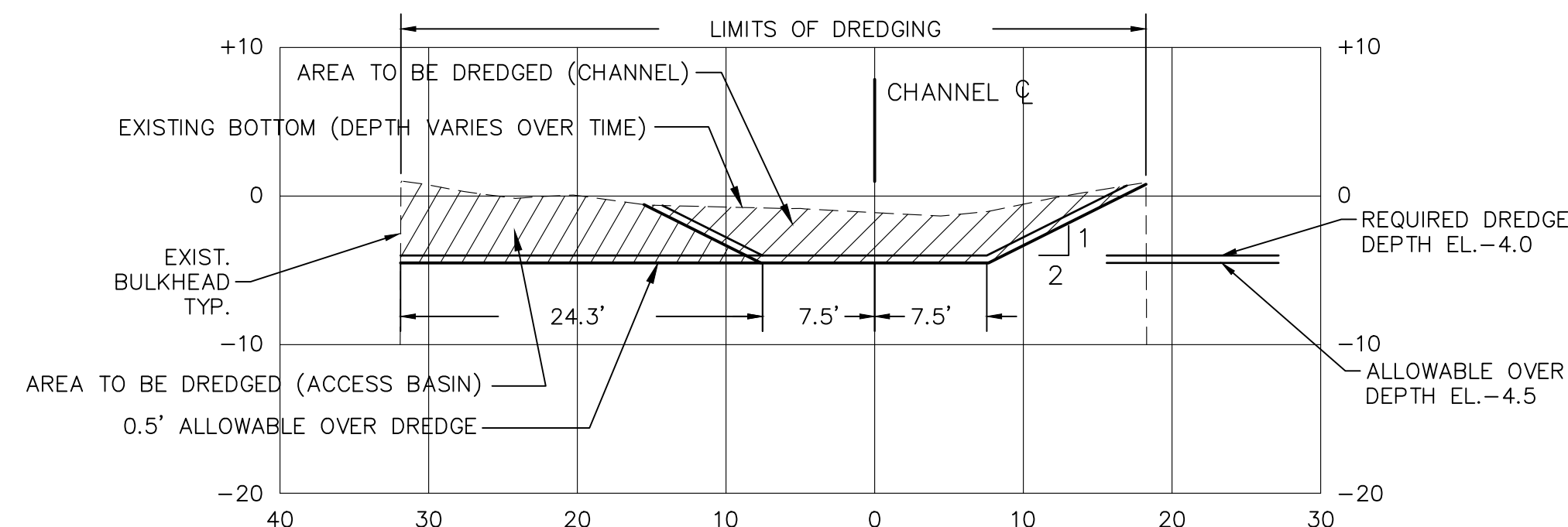
TYPICAL DREDGING SECTION F-F
CHANNEL C3 STA. 30+00 THRU 33+86.51
(STA. 33+50 SHOWN)



TYPICAL DREDGING SECTION B-B
CHANNEL C1 STA. 11+45.76 THRU 15+50.00
CHANNEL C2 STA. 22+36.41 THRU 25+52.96
CHANNEL C3 STA. 35+39.33 THRU 35+56.11
(CHANNEL C1 STA. 13+50 SHOWN)

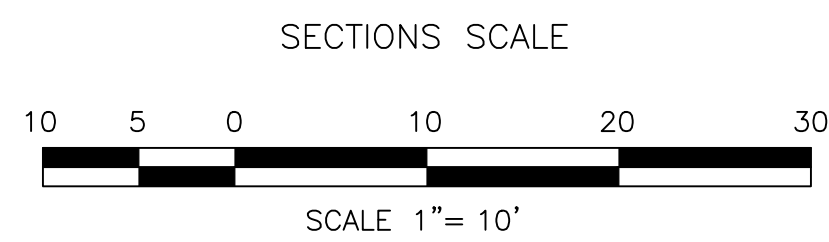


TYPICAL FOREBAY SECTION E-E
CHANNEL C2 STA. 22+58.07 THRU 22+58.07, 31.27' LT.
(CHANNEL C2 STA. 22+58.07, 20' LT SHOWN)



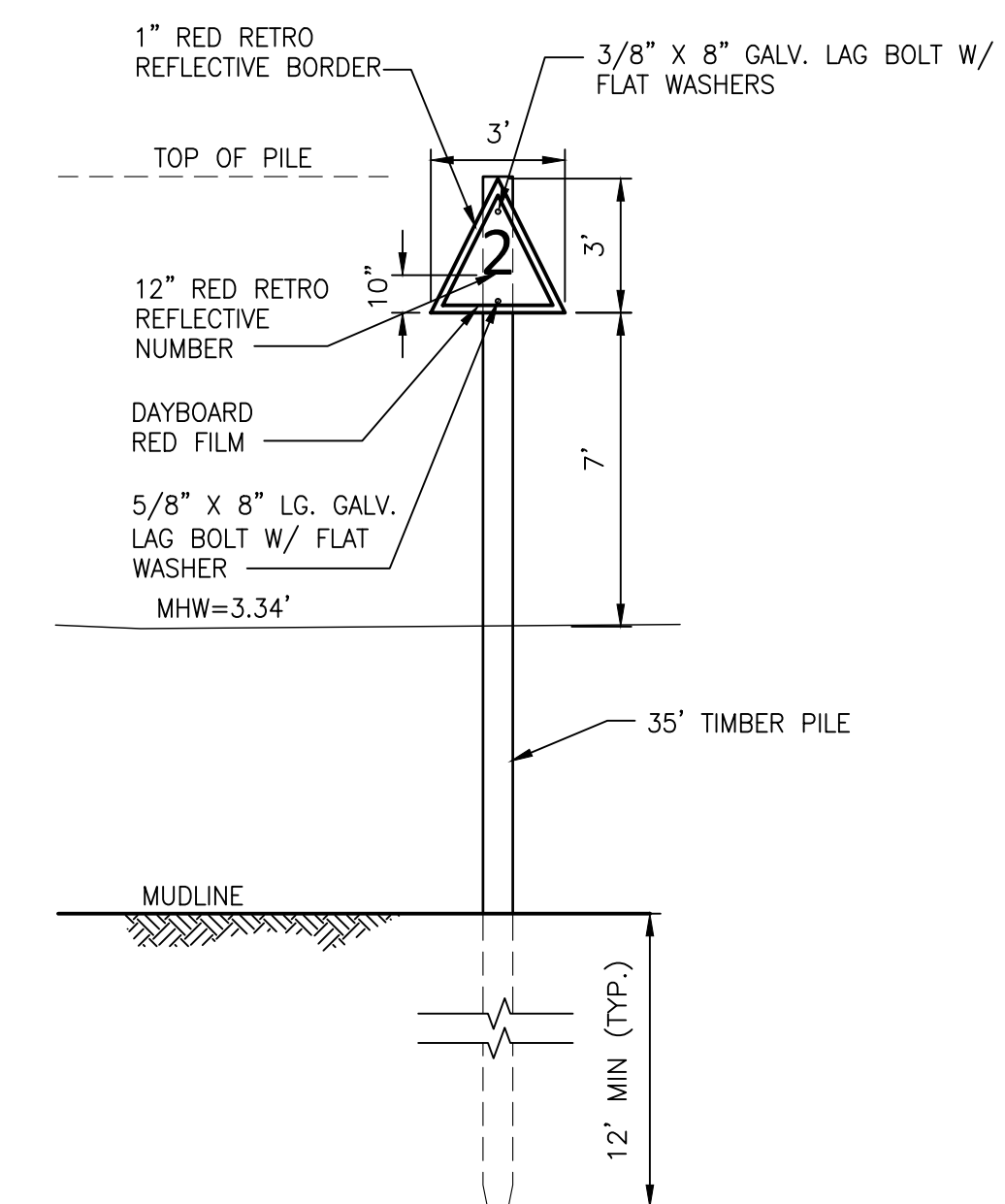
TYPICAL ACCESS BASIN SECTION C-C
CHANNELS C1, C2, AND C3
(CHANNEL C1 STA. 15+50 (P4) SHOWN)

ALL DREDGE DEPTH ELEVATIONS ARE IN FEET AND REFERENCED TO MEAN LOW WATER.



DAY MARKER NOTES:

1. PILES DESIGNED TO BE FRICTION PILE.
2. PILES SHALL BE ROUND, SOUTHERN YELLOW PINE PILES WITH AN 8" TIP DIAMETER, CONFORMING TO ASTM D25. PILES SHALL BE UNUSED CLEAN-PEELED, AND PRESERVATIVE TREATED WITH A MINIMUM 2.5 CCA RETAINED PER CUBIC FOOT. MINIMUM BUTT CIRCUMFERENCE SHALL BE 38" MEASURED THREE FEET FROM BUTT END. PILES SHALL BE 35' IN LENGTH.
3. LOCATE TIMBER PILE WITH A LOCATION TOLERANCE OF 6".
4. DAY MARKER BOARD TYPICAL BOTH SIDES.



RED DAY MARKER DETAIL
(1"=4')

REVISION:	
DATE:	

VIRGINIA

HARBOUR POINT
SSD DREDGING PROJECT
DETAILS AND SECTIONS
FOR
CITY OF VIRGINIA BEACH

VIRGINIA BEACH,

DESIGNED: TBL
DRAWN: BMH
CHECKED: TBL
SCALE: 1"=10'
DATE: 07/17/23
FILE: HARBOURPOINT-JPA
PROJ. #: 2011-019-26
SHEET NO.