ATLANTIC INTRACOASTAL WATERWAY MAINTENANCE DREDGING

NASSAU COUNTY, FLORIDA

LOCATION MAP

N.T.S.

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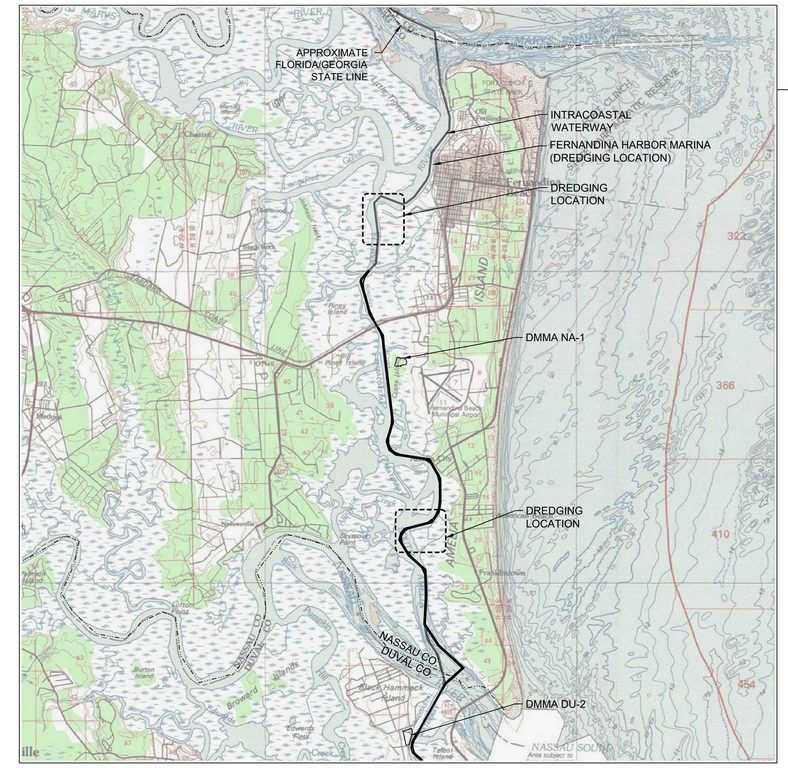

VICINITY MAP

1"= 8,000' (22x34)
1"= 16,000' (11x17)

REFERENCE:
USA TOPO MAPS, ESRI

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TAYLOR ENGINEERING INC.
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JACKSONVILLE, FLORIDA 32256
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1675 PALM BEACH LAKES, SUITE 210
WEST PALM BEACH, FLORIDA 33401
(561)-640-7310
CERTIFICATE OF AUTHORIZATION # 4815

PROJECT TITLE
ATLANTIC INTRACOASTAL WATERWAY MAINTENANCE DREDGING
NASSAU COUNTY, FLORIDA

PROJECT NO	C2015-048
DATE	JUNE 2017

SEAL

KEITH A. KNIGHT P.E.# 58084

C-1

SHEET 1 OF 14

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GENERAL NOTES:

1. COORDINATES SHOWN ARE IN U.S. SURVEY FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, 1990 ADJUSTMENT.

2. ELEVATIONS ARE SHOWN IN FEET REFERENCED TO MEAN LOWER LOW WATER. CAUTION: THE DIFFERENCE BETWEEN NAVD 88 AND MEAN LOWER LOW WATER VARIES AND MAY NOT BE THE SAME AS THE DIFFERENCE USED FOR PREVIOUS SURVEYS. TO MAKE A DIRECT COMPARISON BETWEEN SURVEYS, THE USER NEEDS TO BE CAREFUL TO VERIFY THE VERTICAL DATUM TRANSFORMATION PARAMETERS FOR EACH PROJECT AREA (SEE VERTICAL DATUM DIAGRAM, THIS SHEET).

3. BASE DATA REFERENCES AS SHOWN IN THE CONSTRUCTION DRAWINGS ARE AS FOLLOWS: AERIAL REFERENCE – MICROSOFT BING OPENSTREETMAP, 2011; GEOTECHNICAL INFORMATION - JUNE 2006 AND MAY 2016, U.S. ARMY CORPS OF ENGINEERS SOUTH ATLANTIC DIVISION - CESAW (APPENDIX E); BATHYMETRIC SURVEY - JULY 2014 AND JANUARY 2015, SEA DIVERSIFIED, INC., HYDROGRAPHIC SURVEY OF THE INTRACOASTAL WATERWAY, NASSAU COUNTY, FL., OCTOBER 2015 AND JANUARY 2016, SEA DIVERSIFIED, INC., BATHYMETRIC SURVEY OF THE INTRACOASTAL WATERWAY AT CUT-10 AND CUT-B SHOAL AREAS, NASSAU COUNTY, FLORIDA (APPENDIX F); UTILITY LOCATION SURVEY - DECEMBER 2015, SEA DIVERSIFIED, INC., REPORT OF INVESTIGATION: SUBMERGED UTILITY LOCATION, INTRACOASTAL WATERWAY CUT-8 THROUGH CUT-27D, NASSAU COUNTY, FLORIDA (APPENDIX G); DREDGED MATERIAL MANAGEMENT AREA NA-1 AS-BUILT SURVEY (MAY 2013), DREDGED MATERIAL MANAGEMENT AREA DU-2 AS-BUILT SURVEY (MAY 2013) (APPENDIX H).

4. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER OF RECORD (EOR), ENGINEER, AND OWNER.

5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE EOR AND THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE EOR AND THE OWNER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.

6. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS. ALL SUBMITTALS USING METRIC UNITS WILL BE REJECTED AND RETURNED WITHOUT COMMENT.

7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

8. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES, INCLUDING ALL ACCESS ROUTES TO AND FROM THE PERMANENT DISPOSAL LOCATION, CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.

PERMITS AND PERMIT CONDITIONS

1. THE OWNER HAS SUPPLIED COPIES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT NO. 45-0344374-001-EE, 45-029060-004-EM, 45-0291060 (001-EE, 002-EI, 003-EM) AND 45-75835-009-EE (APPENDIX B), THE U.S. ARMY CORPS OF ENGINEERS REGIONAL GENERAL PERMIT VERIFICATION SAJ-2016-00719 (RGP-SCW), SAJ-2008-03402 (SP-SCW) MODIFICATION-1 AND SAJ-1997-02063 (SP-BAL) (APPENDIX C) AS PART OF THE SPECIFICATIONS. THE CONTRACTOR SHALL COMPLY WILL ALL PERMIT CONDITIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY OR COUNTY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC, AS NECESSARY.

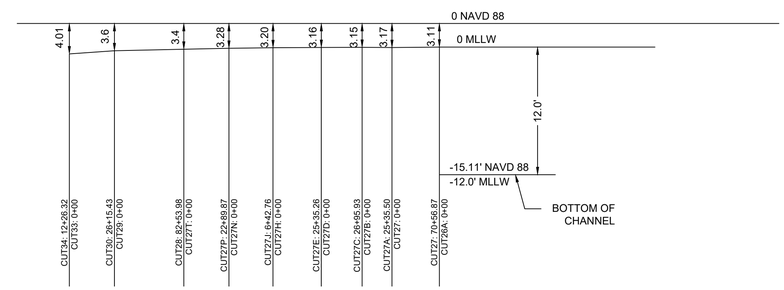
3. THE CONTRACTOR SHALL NOT EXTEND DREDGING ACTIVITIES OUTSIDE THE PERMITTED DREDGED TEMPLATE. DREDGED MATERIAL SHALL BE DEPOSITED AT THE 19.6 ACRE, DREDGED MATERIAL MANAGEMENT AREA (DMMA NA-1) LOCATED ON CRANE ISLAND IN FERNANDINA BEACH AND THE 49.91 ACRE DMMA DU-2 LOCATED ON BLACK HAMMOCK ISLAND IN JACKSONVILLE, FLORIDA.

4. ALL WATERCRAFT ASSOCIATED WITH THE EXECUTION OF THE PERMITTED PROJECT SHALL ONLY OPERATE WITHIN WATERS OF SUFFICIENT DEPTH SO AS TO PRECLUDE BOTTOM SCOURING, PROP DREDGING, GROUNDING, AND DAMAGE TO THE SUBMERGED BOTTOM OR SUBMERGED RESOURCES (A MINIMUM 18-INCH CLEARANCE MUST BE MAINTAINED AT ALL TIMES).

5. AT LEAST ONE PERSON SHALL BE DESIGNATED AS A MANATEE OBSERVER WHEN IN-WATER WORK IS BEING PERFORMED. THAT PERSON SHALL HAVE EXPERIENCE IN MANATEE OBSERVATION, AND BE EQUIPPED WITH POLARIZED SUNGLASSES TO AIDE IN OBSERVATION. THE MANATEE OBSERVER MUST BE ON SITE DURING ALL IN-WATER DREDGING ACTIVITIES AND WILL ADVISE PERSONNEL TO CEASE OPERATION UPON SIGHTING A MANATEE WITHIN 50 FEET OF ANY IN-WATER CONSTRUCTION ACTIVITIES.

CAUTION:
THE APPROXIMATE LOCATION OF THE UTILITIES SHOWN HEREIN WERE PROVIDED BY SEA DIVERSIFIED, INC., DECEMBER 2015, (APPENDIX G). THERE MAY BE OTHER UTILITY CROSSINGS THAT WERE NOT DETECTED DURING THE SURVEY. CONTRACTOR IS ADVISED TO REFER TO SPECIFICATION 35 20 23, SECTION 1.6.A. FOR FURTHER DETAILS.

DATUM: MEAN LOWER LOW WATER
CORRECTIONS: CAUTION: THE DIFFERENCE BETWEEN NAVD 88 AND MEAN LOWER LOW WATER VARIES AND MAY NOT BE THE SAME AS THE DIFFERENCE USED FOR PREVIOUS USACE SURVEYS. TO MAKE A DIRECT COMPARISON BETWEEN SURVEYS, THE USER NEEDS TO BE CAREFUL TO VERIFY THE VERTICAL DATUM TRANSFORMATION PARAMETERS FOR EACH PROJECT AREA (SEE VERTICAL DATUM DIAGRAM). SOURCE OF SURVEY DATA = SEA DIVERSIFIED, INC., JULY 2014 THROUGH JANUARY, 2015 (APPENDIX F).



VERTICAL DATUM DIAGRAM

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
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(904)-731-7040
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CERTIFICATE OF AUTHORIZATION # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

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NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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CHECKED	YS
REVIEWED	KAK
SCALE	AS SHOWN

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PROJECT OVERVIEW

C-2

SHEET 2 OF 14

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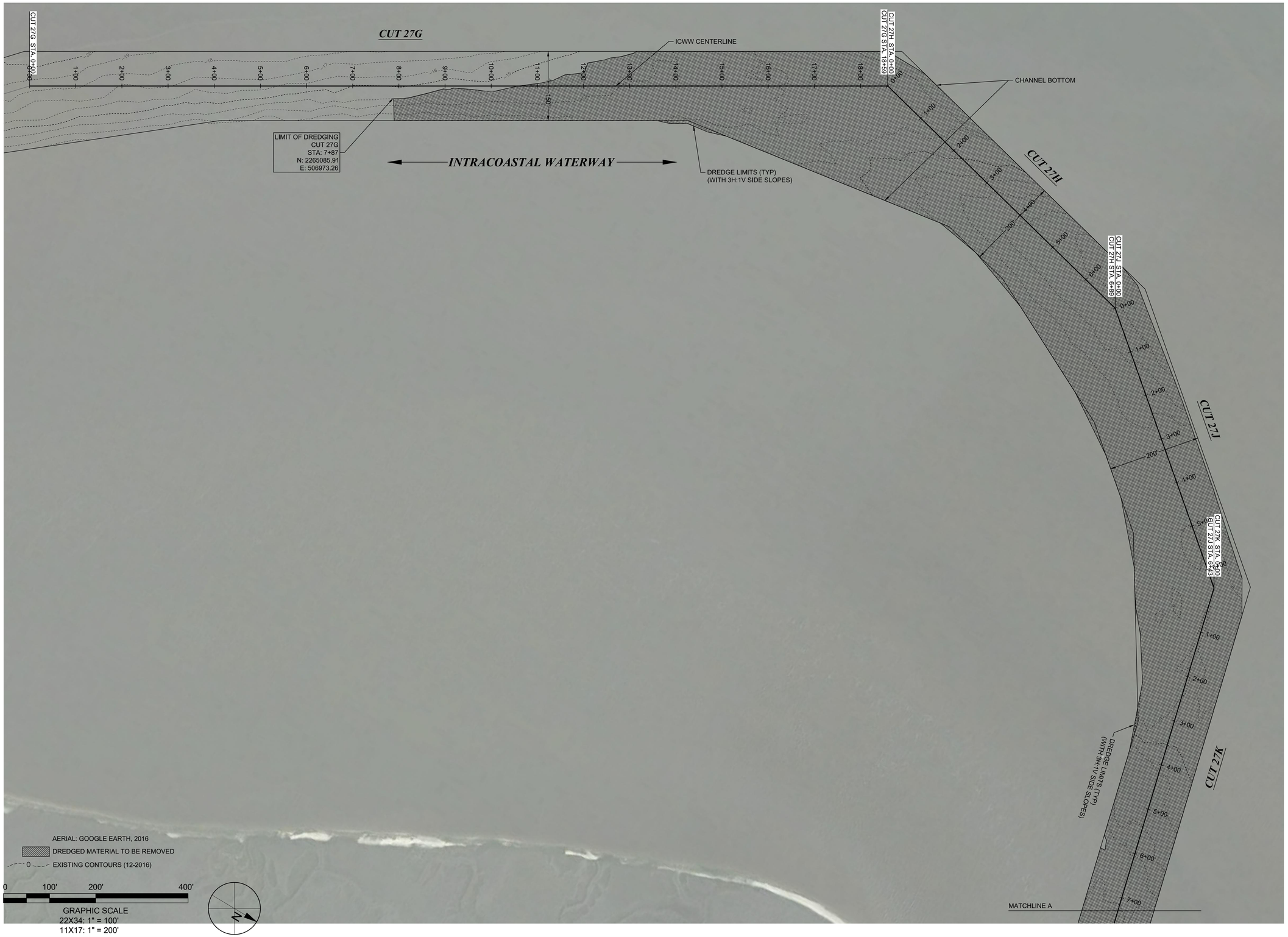

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DREDGEING PLAN -- CUTS 27G, 27H, 27J, 27K

C-3

SHEET 3 OF 14

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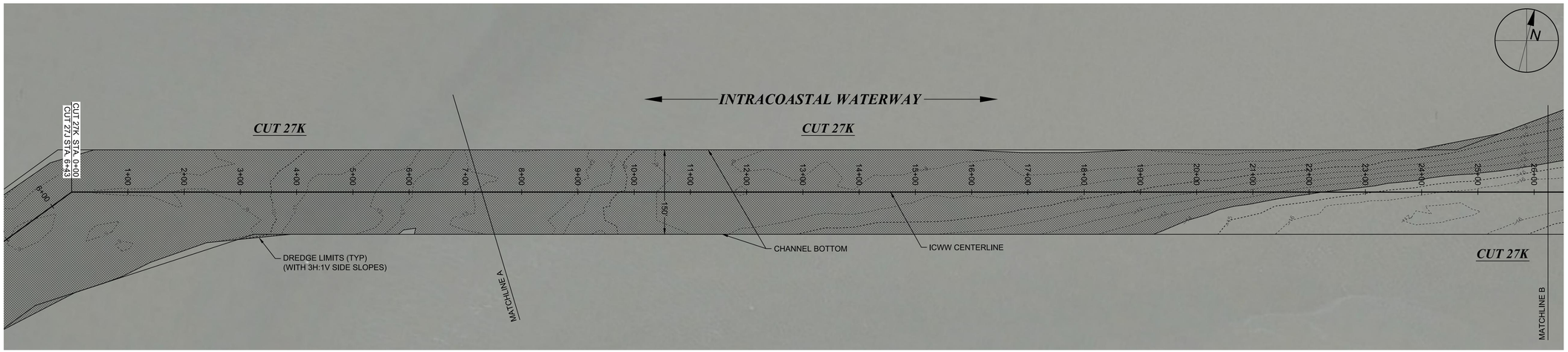

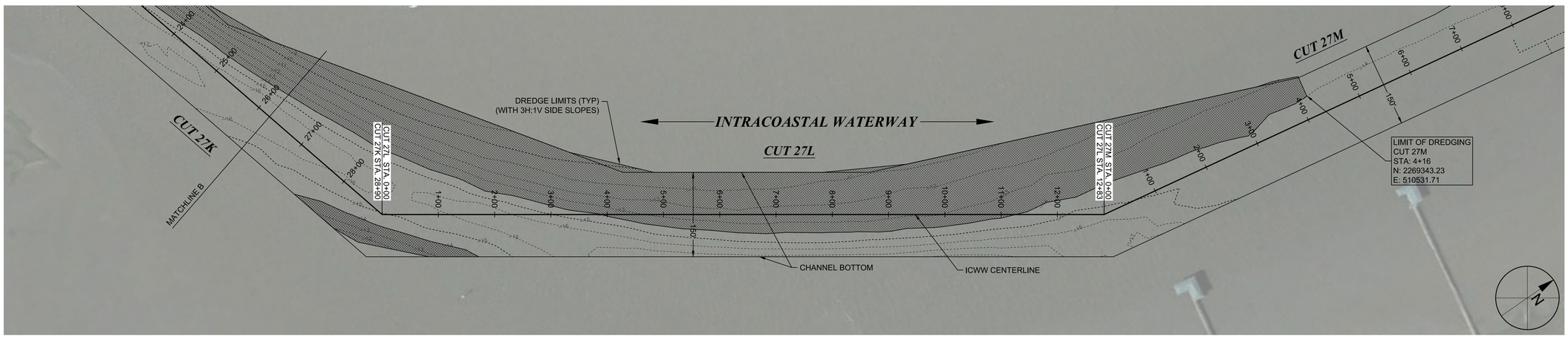

AERIAL: GOOGLE EARTH, 2016

DREDGED MATERIAL TO BE REMOVED

EXISTING CONTOURS (12-2016)

0 100' 200' 400'

GRAPHIC SCALE
22X34: 1" = 100'
11X17: 1" = 200'

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DRAWING TITLE

DREDGEING PLAN - CUTS 27K, 27L, 27M

C-4

SHEET 4 OF 14

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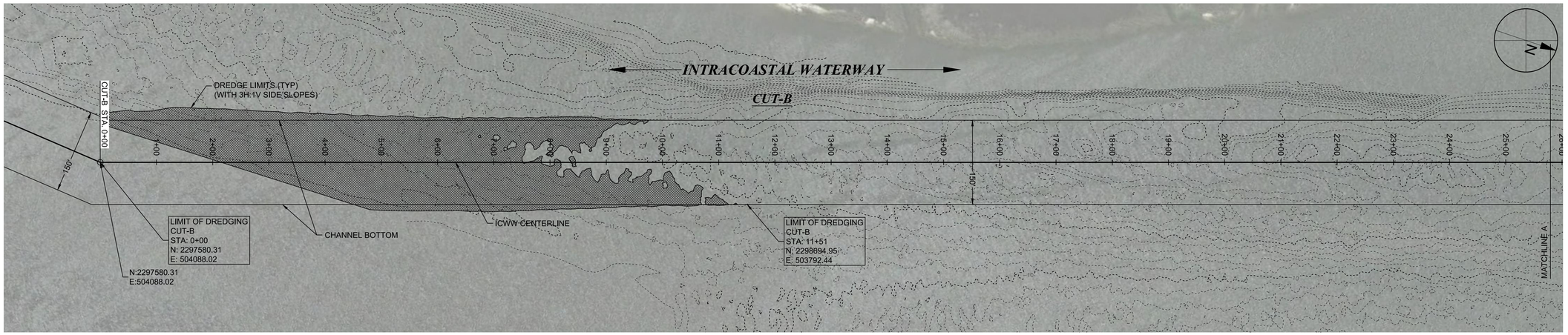

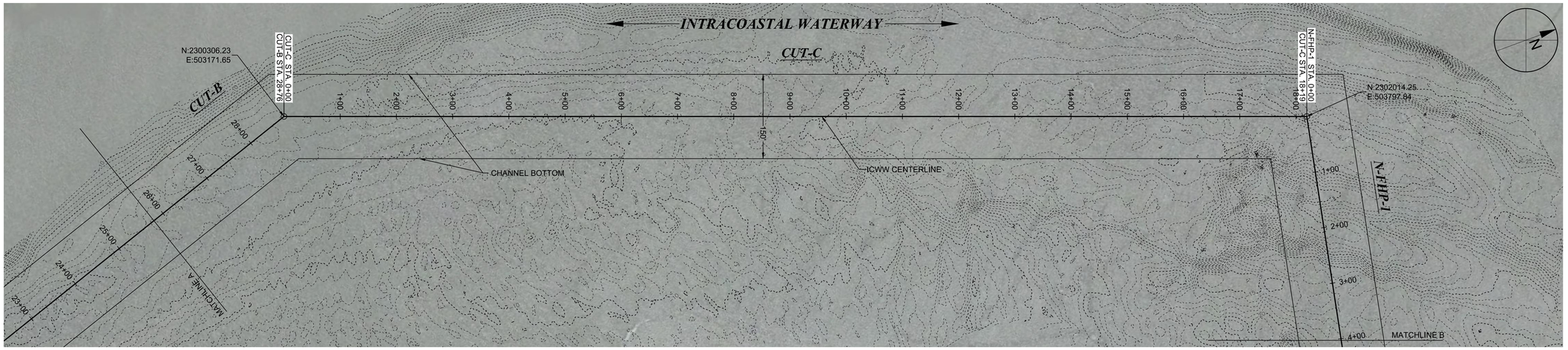

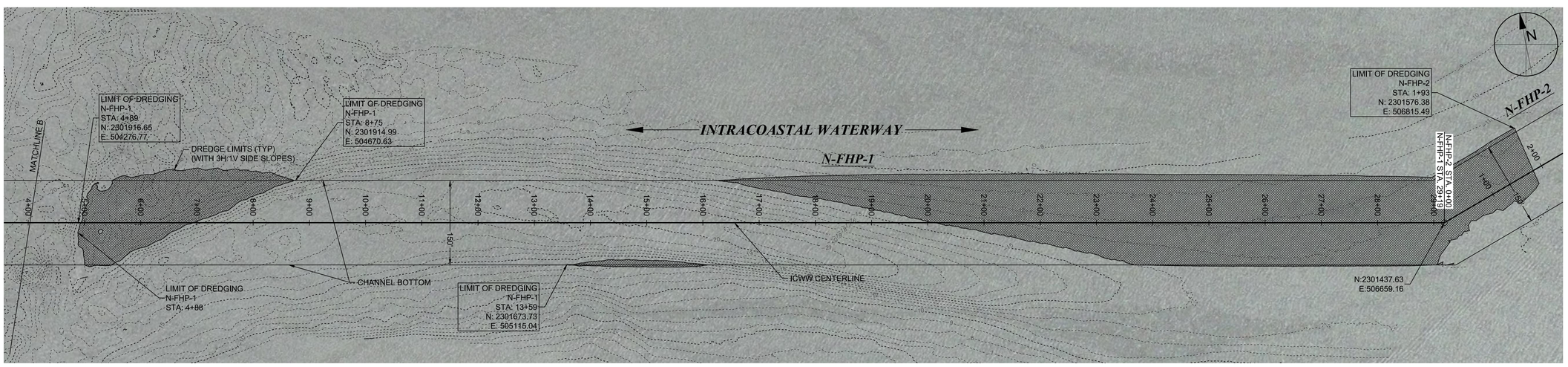

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DREDGEING PLAN -- CUTS B, C, N-FHP-1

C-5

SHEET 5 OF 14

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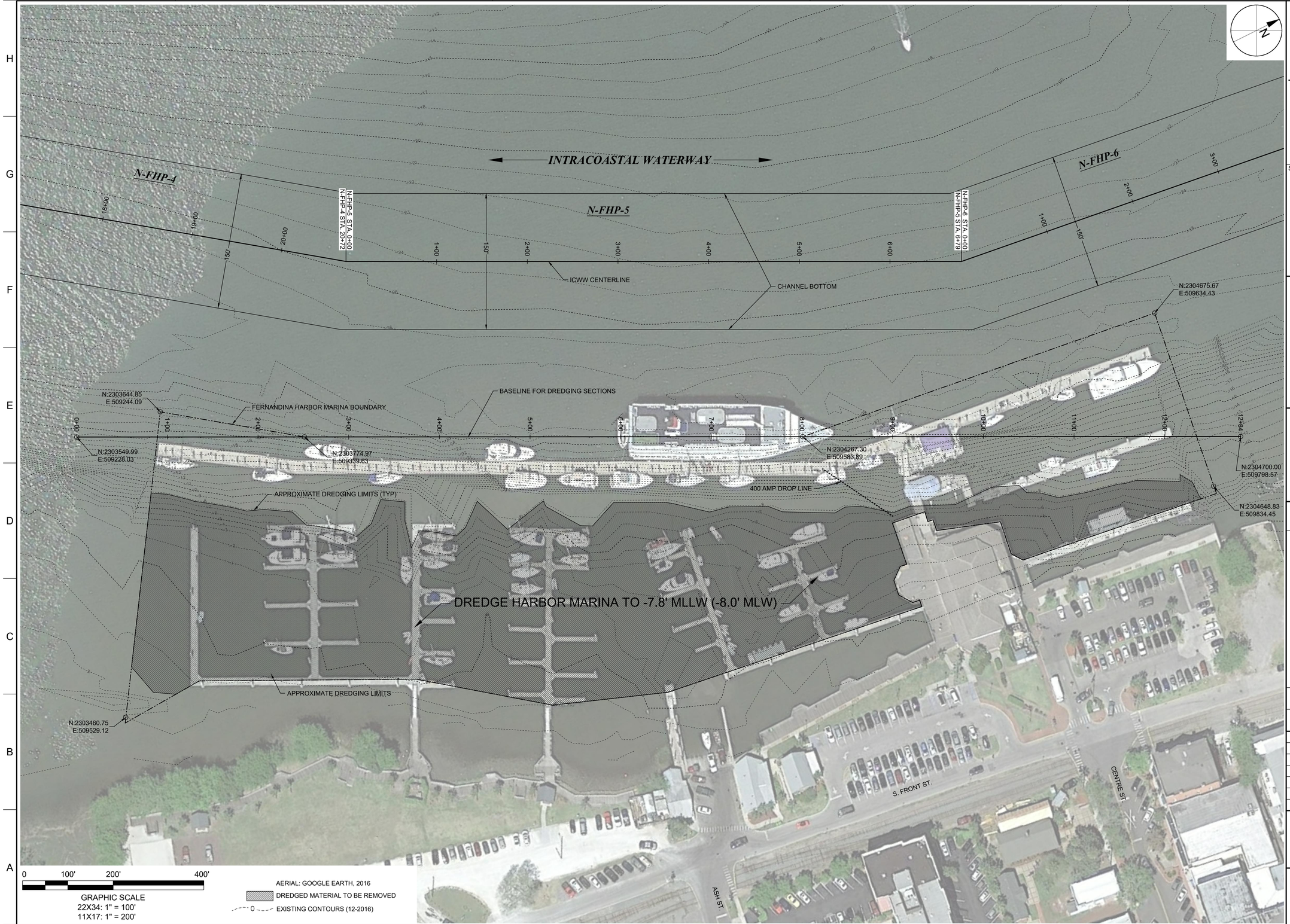

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MARINA DREDGING PLAN
ALTERNATIVE 1

C-6

SHEET 6 OF 14

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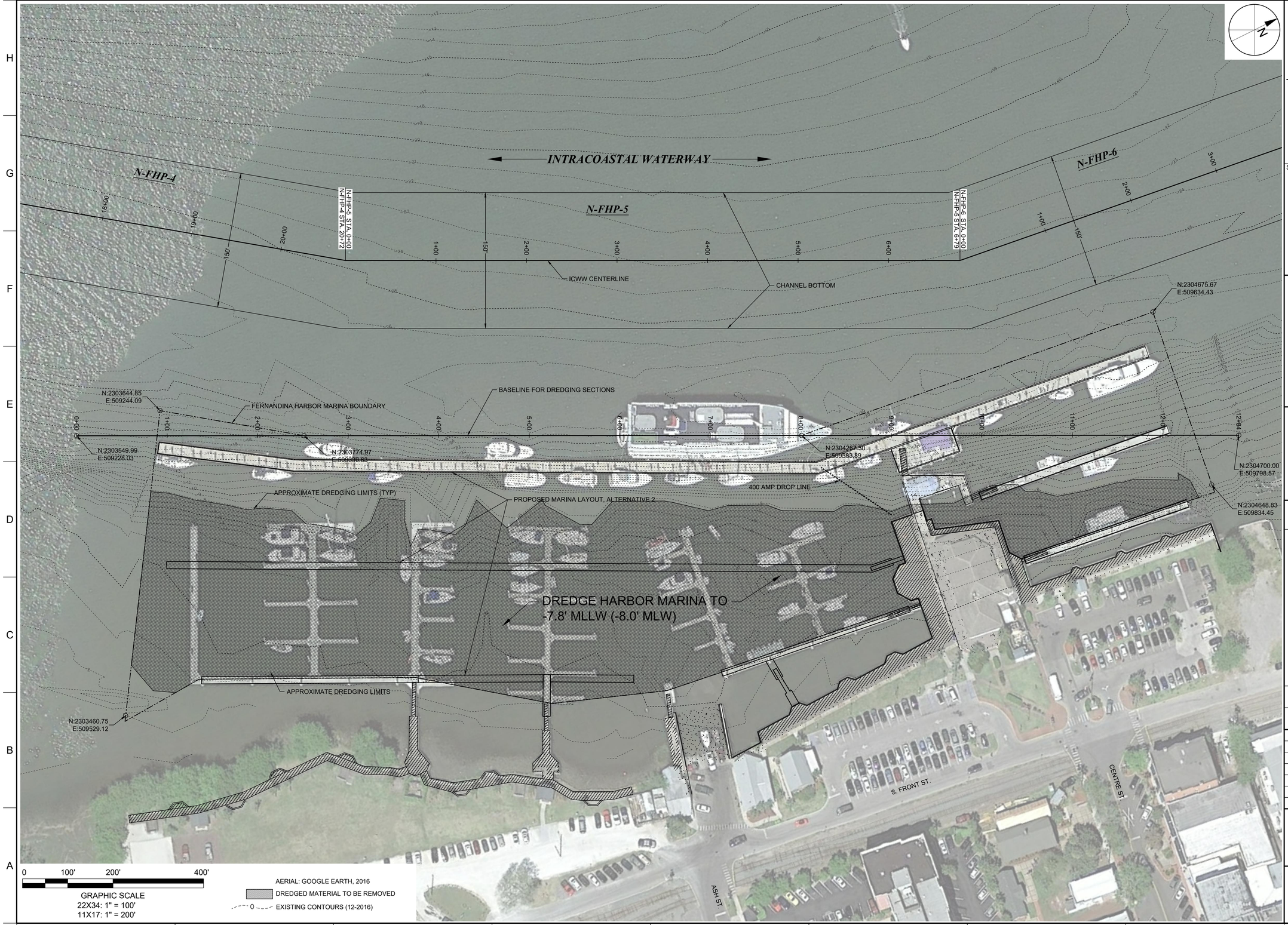

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MARINA DREDGING PLAN
ALTERNATIVE 2

C-7

SHEET 7 OF 14

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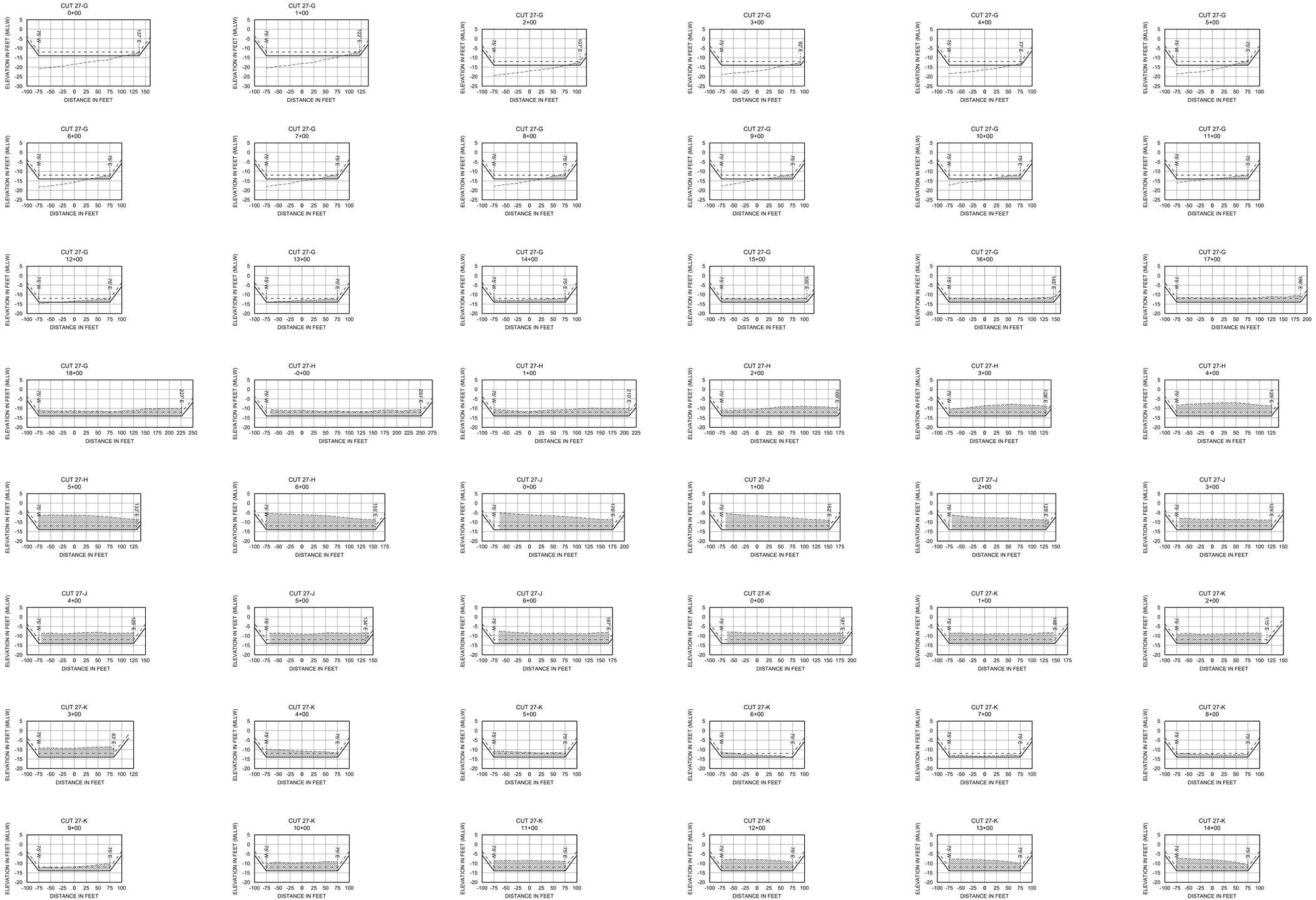

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GRAPHIC SCALE

22X34: 1" = 100' VERT. SCALE: 1" = 25' (22x34)

11X17: 1" = 200' VERT. SCALE: 1" = 50' (11X17)

LEGEND

- EXISTING GRADE
- DESIGN CHANNEL TEMPLATE (-12 FT MLLW)
- ALLOWABLE 2 FT OVERDREDGE
- DREDGED MATERIAL TO BE REMOVED

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CROSS-SECTIONS

C-8

SHEET 8 OF 14

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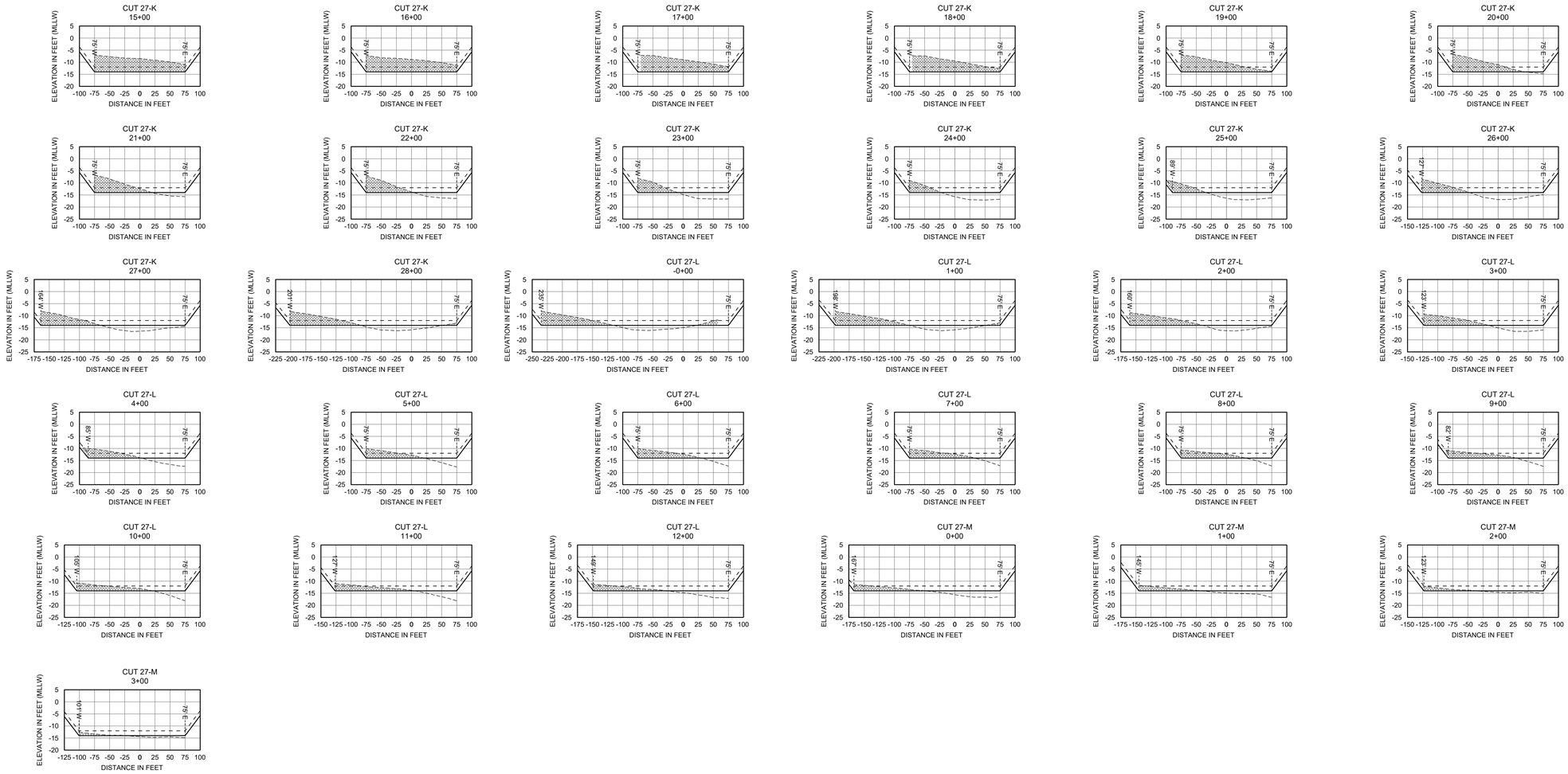

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CROSS-SECTIONS

C-9

SHEET 9 OF 14

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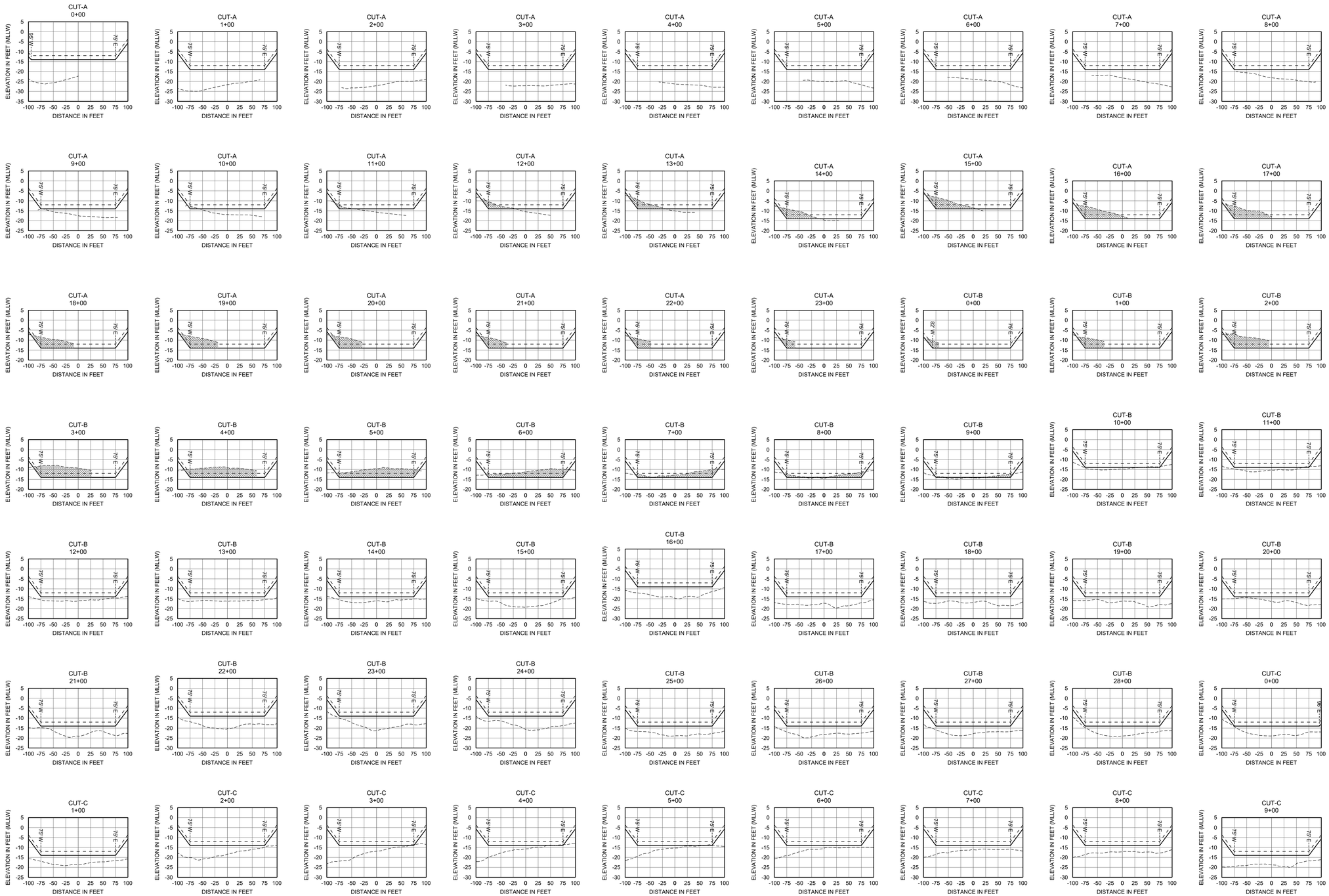

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ATLANTIC INTRACOASTAL WATERWAY MAINTENANCE DREDGING

NASSAU COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811
BEFORE YOU DIG
1-800-638-4097

NO.	ZONE	REVISIONS / SUBMISSIONS	DATE

PROJECT NO	C2015-048
DATE	JUNE 2017
DESIGNED	WA
DRAWN	AF
CHECKED	YS
REVIEWED	KAK
SCALE	AS SHOWN

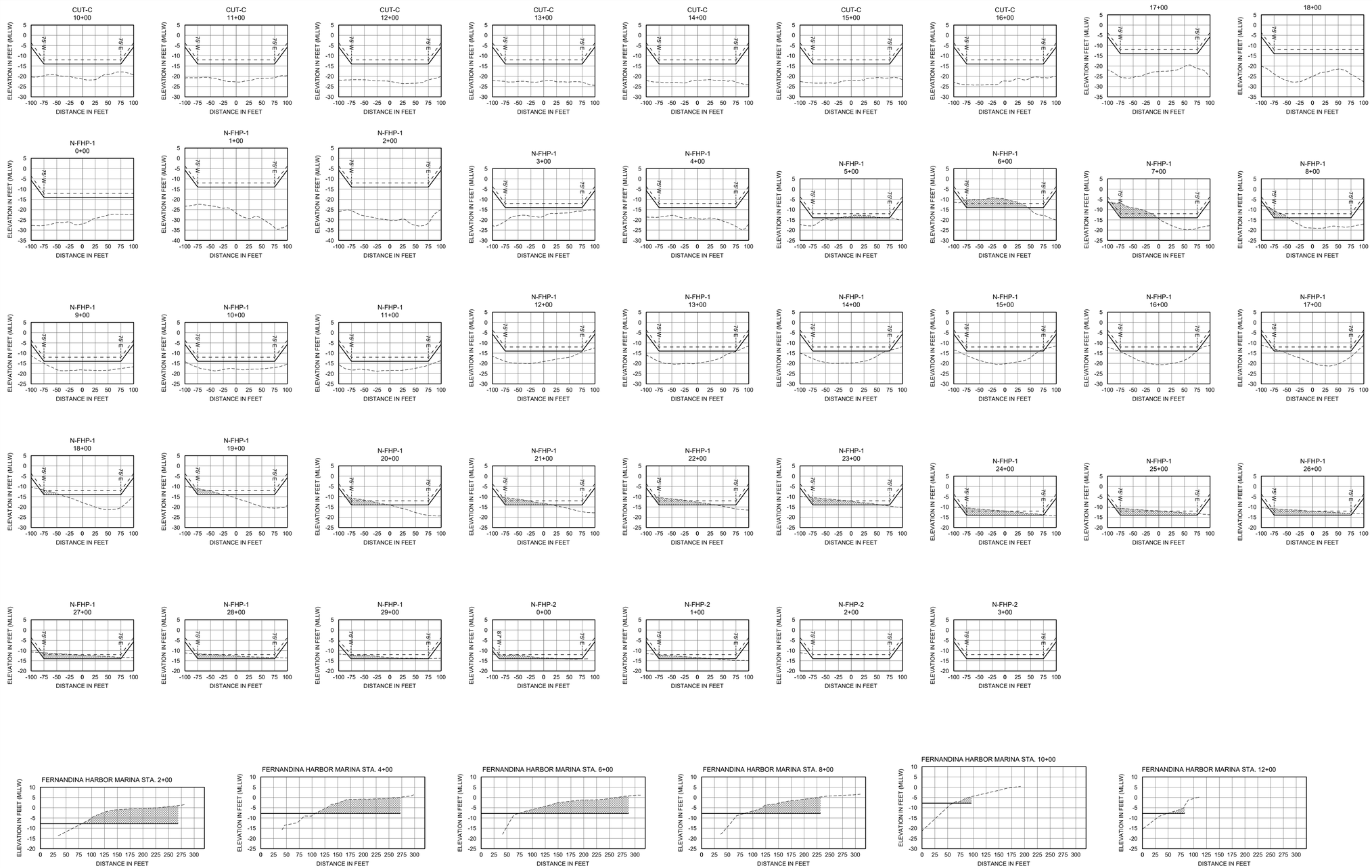
DRAWING TITLE

CROSS-SECTIONS

C-10

SHEET 10 OF 14

ANTON FLEWELLING, 6/13/2017 11:55:54 AM, X:\sys\Projects\c2015-048 FIND Nassau Reach 1\Construction\c2015-048-C-Sections Dredge.dwg



0 100' 200' 400'

GRAPHIC SCALE

22X34: 1" = 100' VERT. SCALE: 1" = 25' (22x34)

11X17: 1" = 200' VERT. SCALE: 1" = 50' (11X17)

LEGEND

- EXISTING GRADE
- DESIGN CHANNEL TEMPLATE (-12 FT MLLW)
- ALLOWABLE 2 FT OVERDREDGE
- DREDGED MATERIAL TO BE REMOVED

TAYLOR ENGINEERING INC.

10151 DEERWOOD PARK BLVD.
BLDG. 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040

1675 PALM BEACH LAKES, SUITE 210
WEST PALM BEACH, FLORIDA 33401
(561)-640-7310

CERTIFICATE OF AUTHORIZATION # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

ATLANTIC INTRACOASTAL WATERWAY MAINTENANCE DREDGING

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CROSS-SECTIONS

C-11

SHEET 11 OF 14

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10151 DEERWOOD PARK BLVD
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JACKSONVILLE, FLORIDA 32256
(904)-731-7040
1221 AIRPORT ROAD
SUITE 210
DESTIN, FL 32541
(850)-460-7040
CERTIFICATE OF AUTHORIZATION # 4815

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KEITH A. KNIGHT P.E.# 58084

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DMMA NA-1 PLAN

C-12

SHEET 12 OF 14

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CERTIFICATE OF AUTHORIZATION # 4815

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DMMA DU-2 PLAN

C-13

SHEET 13 OF 14

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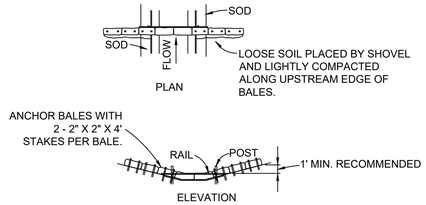
EROSION CONTROL

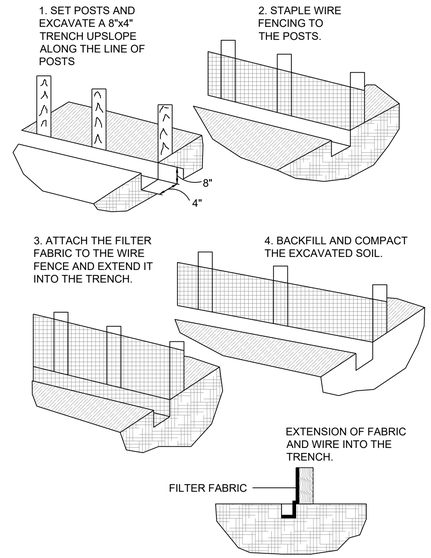
1. THE CONTRACTOR SHALL SUBMIT A DETAILED TURBIDITY AND WATER QUALITY MANAGEMENT AND MONITORING PLAN (SEE SECTION 01 35 43, PARAGRAPH 1.2.G) AND DREDGE PLAN (SEE SECTION 35 20 23.13, PARAGRAPH 1.3.G) FOR ENGINEER APPROVAL BEFORE ISSUANCE OF A NOTICE TO PROCEED.
2. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND COMPLY WITH STATE WATER QUALITY CRITERIA FOR STORM WATER DISCHARGE. EROSION CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO TURBIDITY SCREENS, MULCHING, HAY BALES, AND SILT FENCE. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSTRUCTION COSTS, AND FINES.
3. EROSION CONTROL MEASURES SHALL BE PLACED TO CONTAIN ALL POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS INCLUDING CURB INLETS, DITCH BOTTOM INLETS, DITCHES, AND DOWNSTREAM PORTIONS OF STREAMS AND TIDAL WATERS ADJACENT TO CONSTRUCTION.
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL SODDING AND/OR GRASS IS ESTABLISHED.
5. DISTURBED AREAS NOT INCLUDING ROADWAYS AND WETLANDS SHALL BE SEEDED/GRASSED, FERTILIZED, MULCHED, AND MAINTAINED IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS AT ALL DISTURBED AREAS AND SPECIFICATIONS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
7. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A NPDES PERMIT TO FDEP.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
9. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.



SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102 OF F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

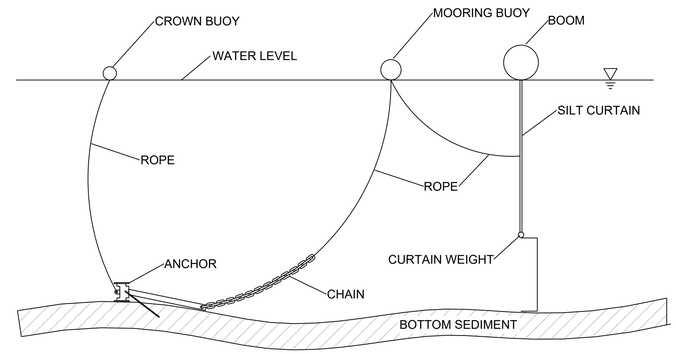
BARRIER FOR PAVED DITCH

NOT TO SCALE



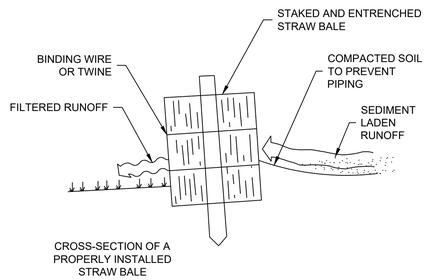
CONSTRUCTION DETAILS FOR SILT FENCES

NOT TO SCALE



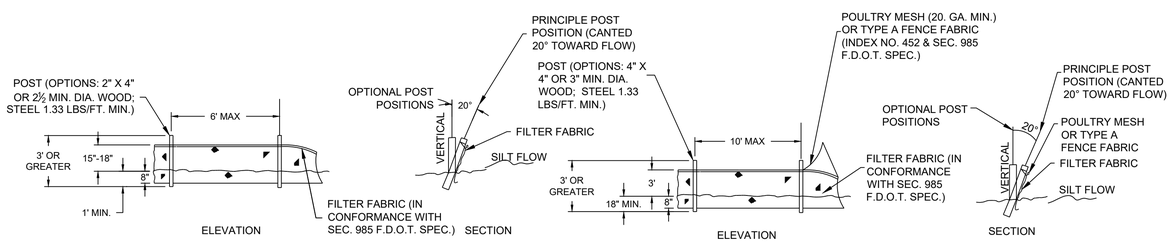
TURBIDITY CURTAIN DETAIL

NOT TO SCALE



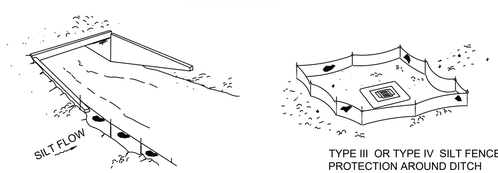
STAKED HAY BALE

NOT TO SCALE



TYPE III SILT FENCE

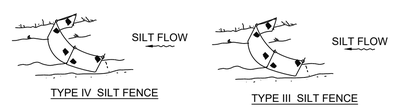
TYPE IV SILT FENCE



TYPE III OR TYPE IV SILT FENCE

TYPE III OR TYPE IV SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



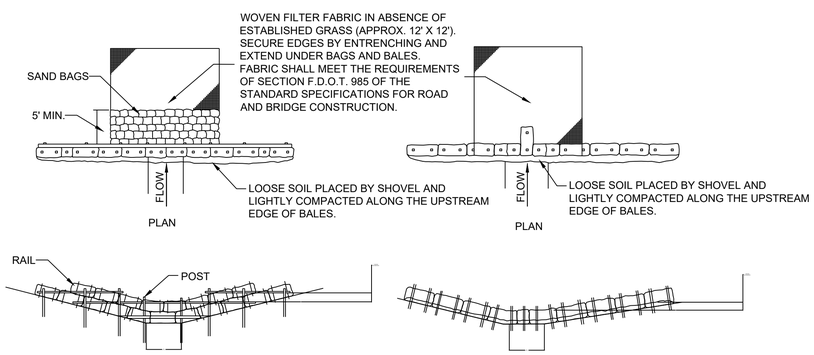
TYPE IV SILT FENCE

TYPE III SILT FENCE

DITCH INSTALLATION AND SPACING FOR TYPE III & TYPE IV FENCE TO BE IN ACCORDANCE WITH SHEET 1 OF 3, F.D.O.T. INDEX NO. 102.

SILT FENCE TYPE III & IV

NOT TO SCALE



APPLICATION AND SPACING OF TYPES I & II HAY BALE BARRIERS SHELL BE IN ACCORDANCE WITH SHEET 1 OF 3, F.D.O.T. INDEX NO. 102

TYPE II

TYPE I

HAY BARRIERS TYPE I & II

NOT TO SCALE

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SCALE	AS SHOWN

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EROSION CONTROL DETAILS

C-14

SHEET 16 OF 16

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