

CONSTRUCTION PLANS FOR: EMERGENCY SPILLWAY MODIFICATIONS

MANATEE COUNTY, FLORIDA

AMEC PROJECT NUMBER: 300472x4



S I T E L O C A T I O N M A P

PLANS PREPARED FOR:



Carollo Engineers, Inc.
401 N. Cattleman Road
Sarasota, Florida 34232-6441

PLANS PREPARED BY:



Amec Foster Wheeler
Environment & Infrastructure, Inc.
1101 Channelside Drive, Suite 200, Tampa, FL 32602
Phone: 1.813.289.0750 Fax: 1.813.289.5474
www.amecfw.com CA-5392

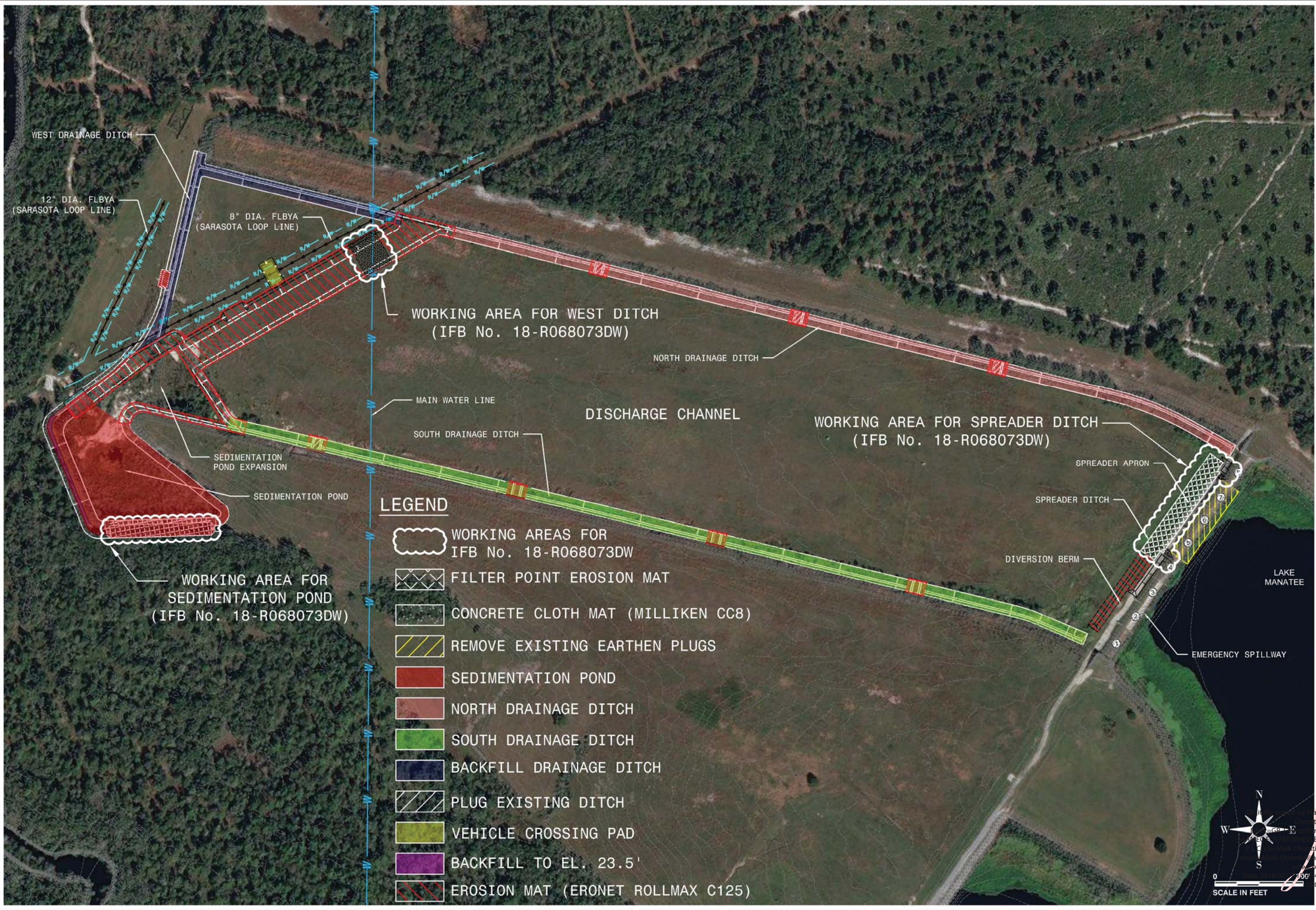
BID PACKAGE
IFB No. 18-R068073DW
REVISED DATE: February 7, 2018

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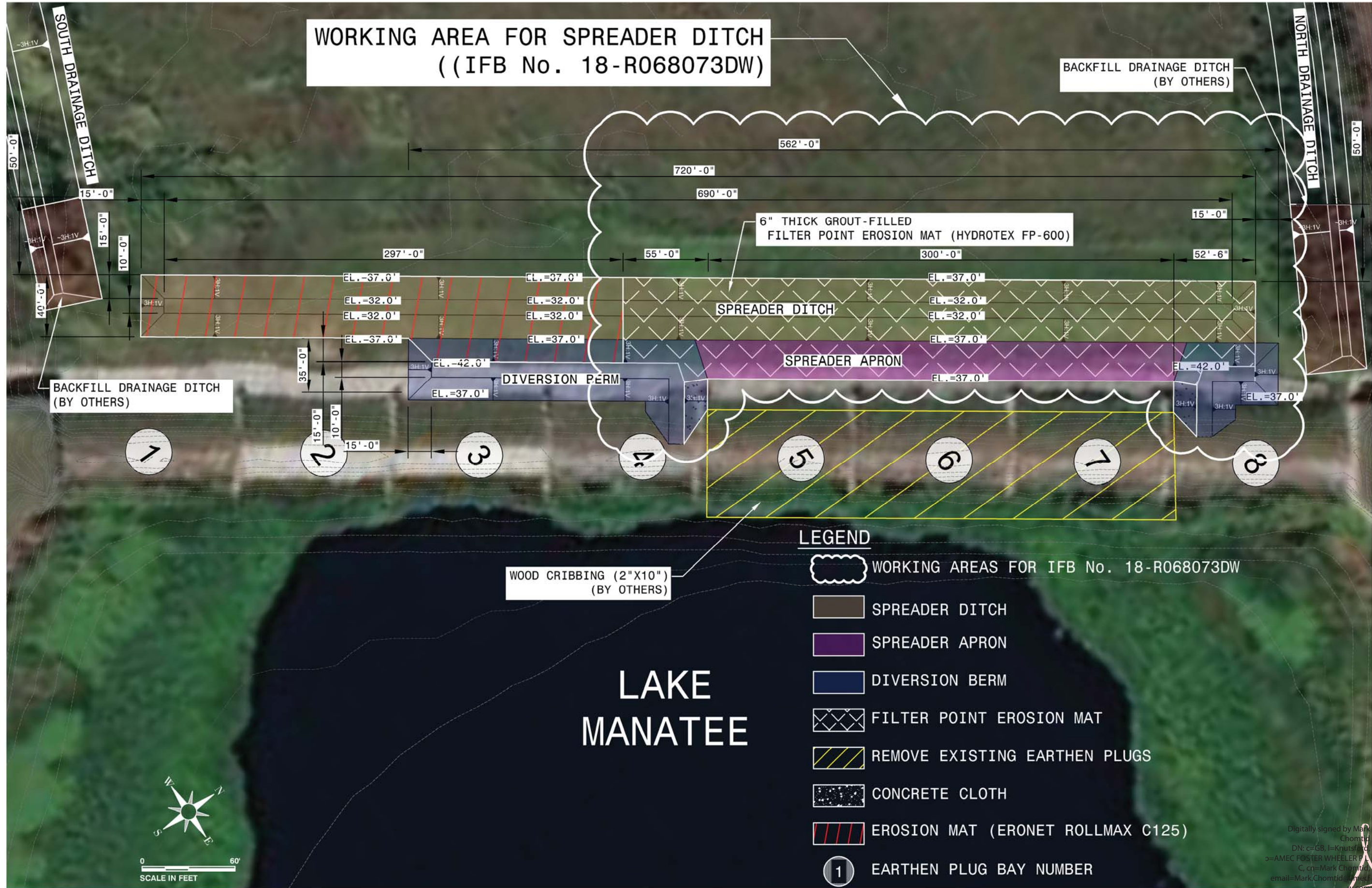
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amc foster wheeler Amec Foster Wheeler Environment & Infrastructure, Inc. 1101 Channelside Drive, Suite 200, Tampa, FL 33602 Phone: 1.813.289.0750 Fax: 1.813.289.5474 www.amecw.com CA-5392		NO.	DATE	REVISION
LAKE MANATEE RESERVOIR MANATEE COUNTY UTILITIES DEPARTMENT EMERGENCY SPILLWAY MODIFICATIONS EMERGENCY SPILLWAY SITE MAP MANATEE COUNTY, FLORIDA				
DATE: February 7, 2018 DRAWN BY: M.VIVES CHECKED BY: M.CHOWTID PROJECT NO.: 300472X4				
SHEET: 2				

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LEGEND

- WORKING AREAS FOR IFB No. 18-R068073DW
- SPREADER DITCH
- SPREADER APRON
- DIVERSION BERM
- FILTER POINT EROSION MAT
- REMOVE EXISTING EARTHEN PLUGS
- CONCRETE CLOTH
- EROSION MAT (ERONET ROLLMAX C125)
- 1 EARTHEN PLUG BAY NUMBER

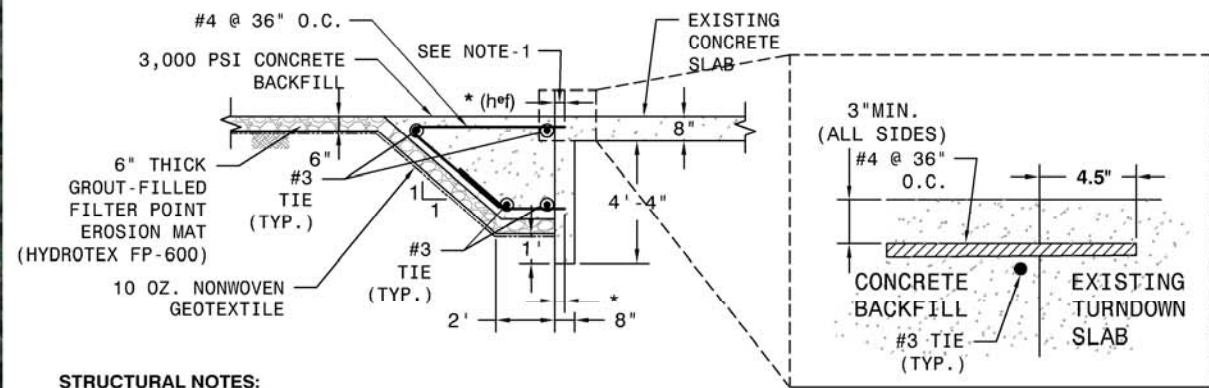
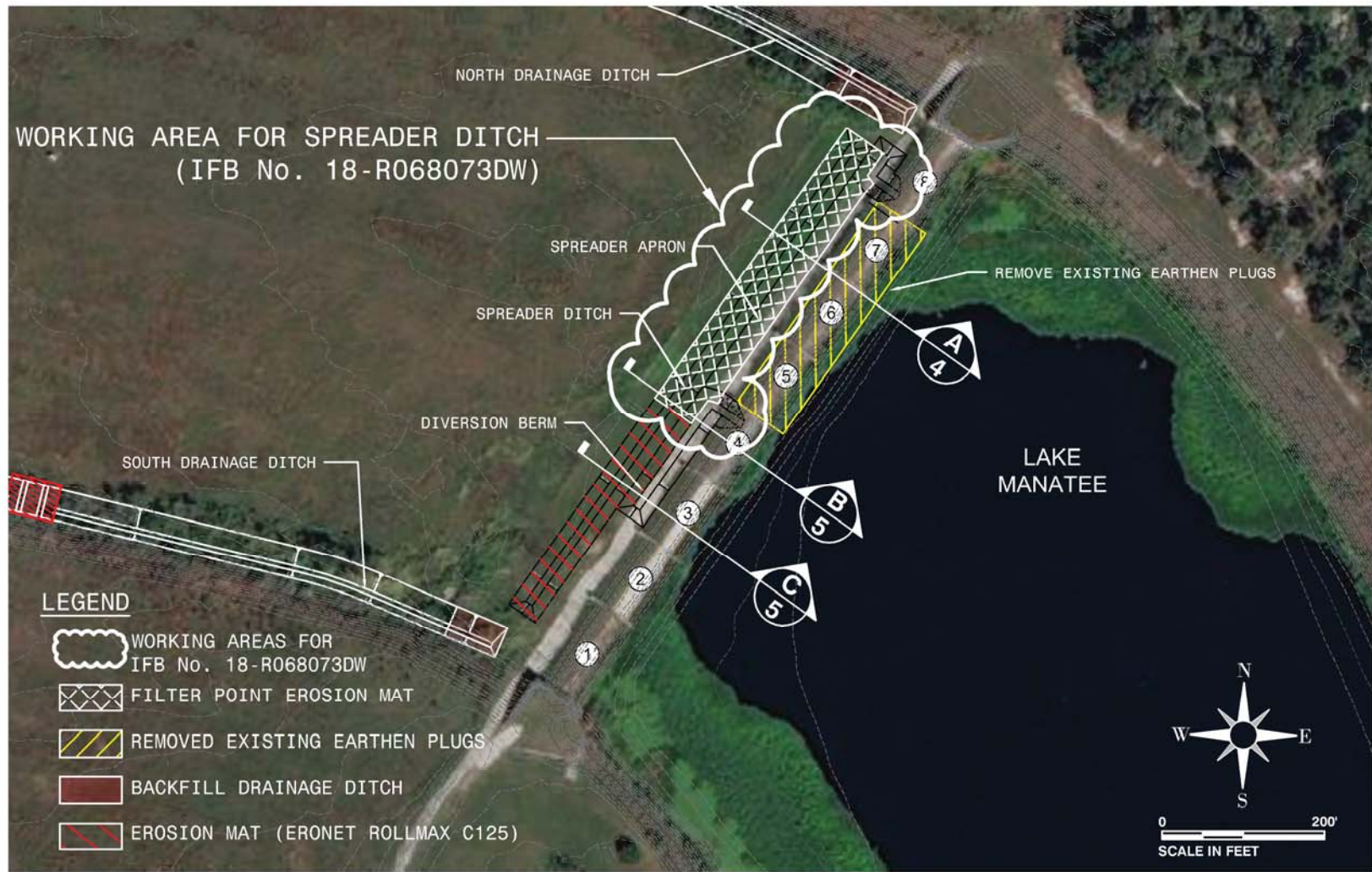
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Environment & Infrastructure, Inc.
1101 Channelside Drive, Suite 200, Tampa, FL 33602
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LAKE MANATEE RESERVOIR
MANATEE COUNTY UTILITIES DEPARTMENT
EMERGENCY SPILLWAY MODIFICATIONS
SPILLWAY STRUCTURE AND SPREADER DITCH PLAN
MANATEE COUNTY, FLORIDA

DATE: February 7, 2018
DRAWN BY: M.VIVES
CHECKED BY: M.CHOWTID
PROJECT NO.: 300472X4



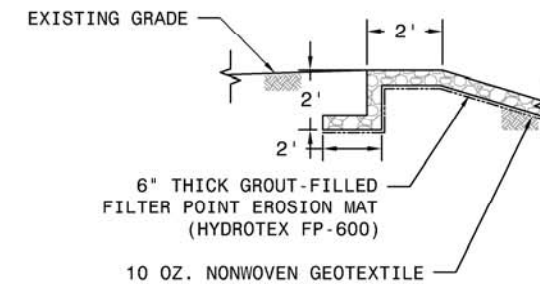
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o=AMEC FOSTER WHEELER P
C, cn=Mark Chomtid,
email=Mark.Chomtid@amec
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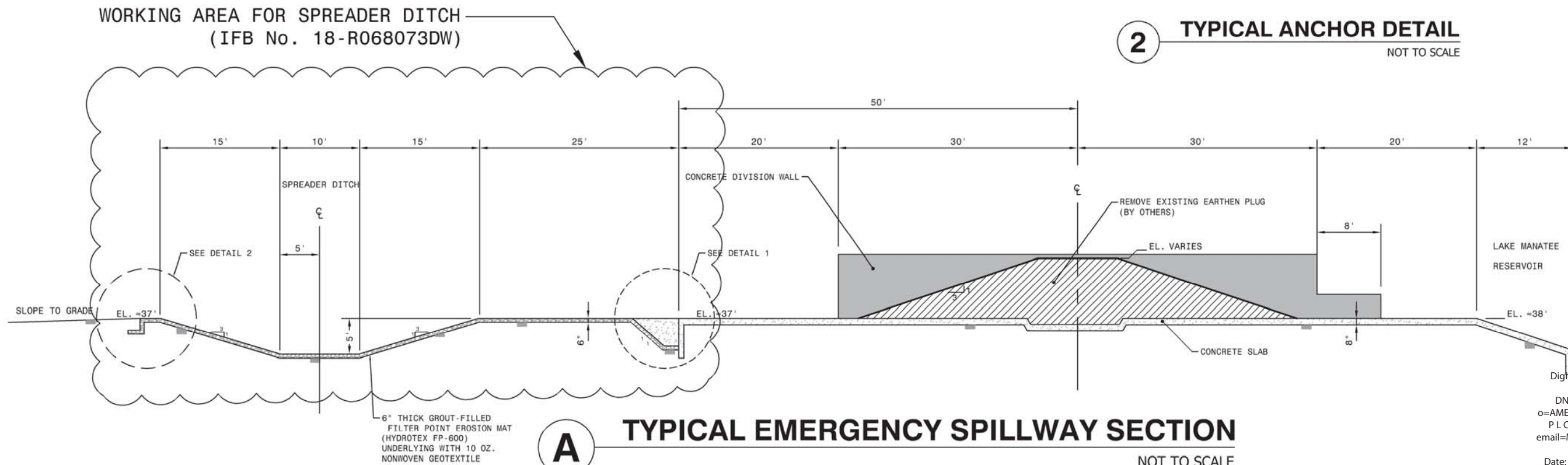
STRUCTURAL NOTES:

1. INSTALL #4 BAR IN EXISTING 8-INCH SLAB AND TURN-DOWN WITH HILTI HIT-HY 200 ADHESIVE ANCHOR AT 4 1/2-INCH EMBEDMENT. INSTALL PER MANUFACTURER SPECIFICATIONS.
2. REINFORCED CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 318-14
3. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI AT 28 DAYS.
4. REINFORCING STEEL SHALL BE ASTM A615 GR 60.
5. COORDINATE CONTROL JOINTS WITH EXISTING SLAB-ON-GRADE.
6. TOLERANCES FOR CONCRETE AND EMBEDMENTS SHALL COMPLY WITH ACI 117.
7. REINFORCING STEEL LAPPING AND BEND RADIUS IN ACCORDANCE WITH ACI-318-14.
8. MINIMUM CONCRETE CLEAR COVER SHALL BE AS FOLLOWS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH-3 INCH, CONCRETE EXPOSED TO WEATHER-2 INCH.

1 TYPICAL ANCHOR DETAILS
NOT TO SCALE



2 TYPICAL ANCHOR DETAIL
NOT TO SCALE



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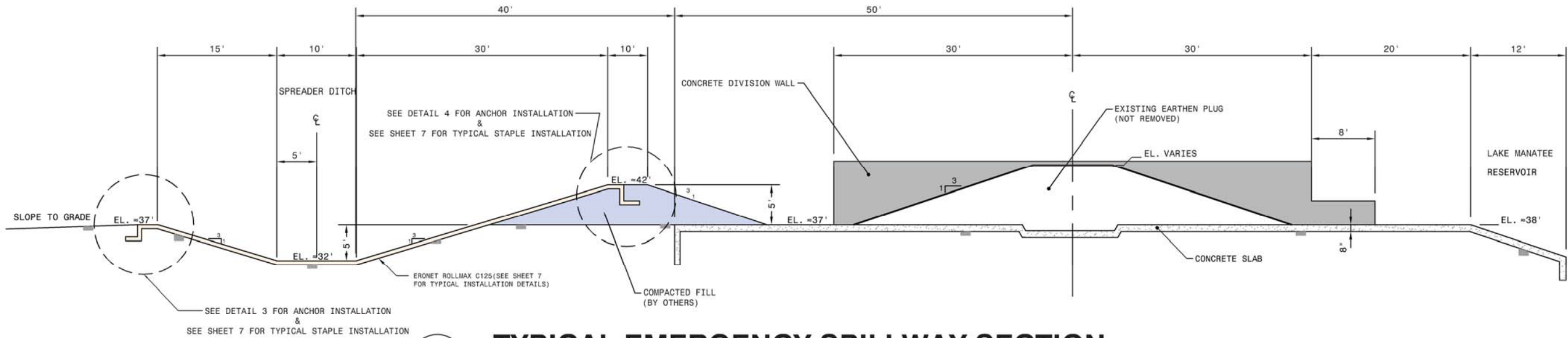
LAKE MANATEE RESERVOIR
MANATEE COUNTY UTILITIES DEPARTMENT
EMERGENCY SPILLWAY MODIFICATIONS
EMERGENCY SPILLWAY CROSS SECTION A & DETAILS
MANATEE COUNTY, FLORIDA

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DRAWN BY: M.VIVES
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PROJECT NO.: 300472X4



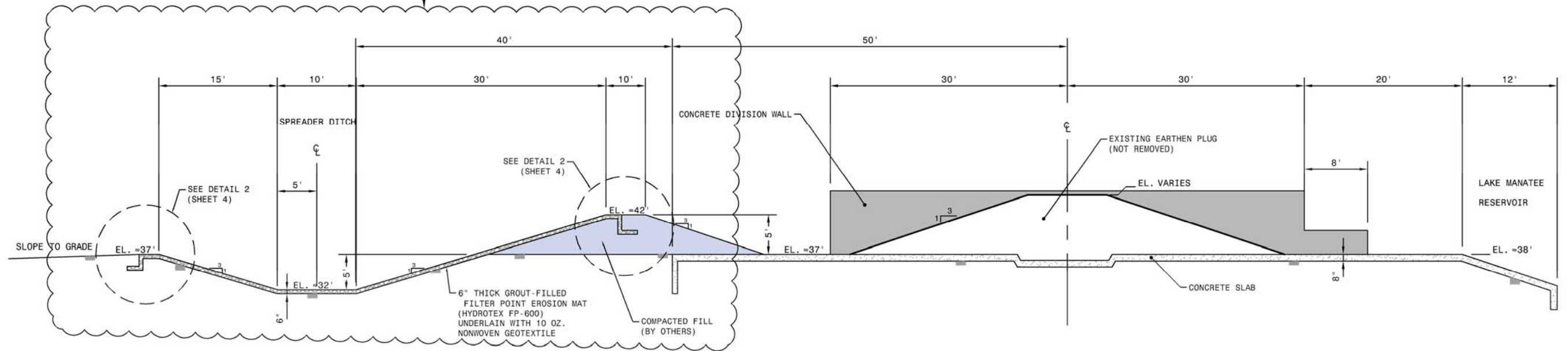
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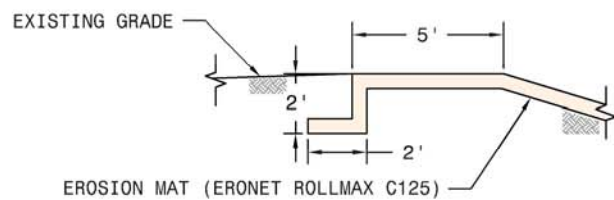


C **TYPICAL EMERGENCY SPILLWAY SECTION**
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WORKING AREA FOR SPREADER DITCH
(IFB No. 18-R068073DW)

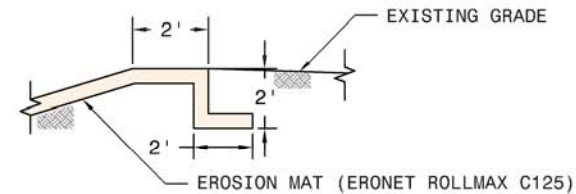


B **TYPICAL EMERGENCY SPILLWAY SECTION**
NOT TO SCALE



3 **TYPICAL ANCHOR DETAIL**
(FOR INFORMATION ONLY) NOT TO SCALE

NOTE:
STAKE EROSION MAT IN ANCHOR TRENCH
PER MANUFACTURER'S RECOMMENDATIONS
(TYPICAL)



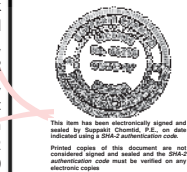
4 **TYPICAL ANCHOR DETAIL**
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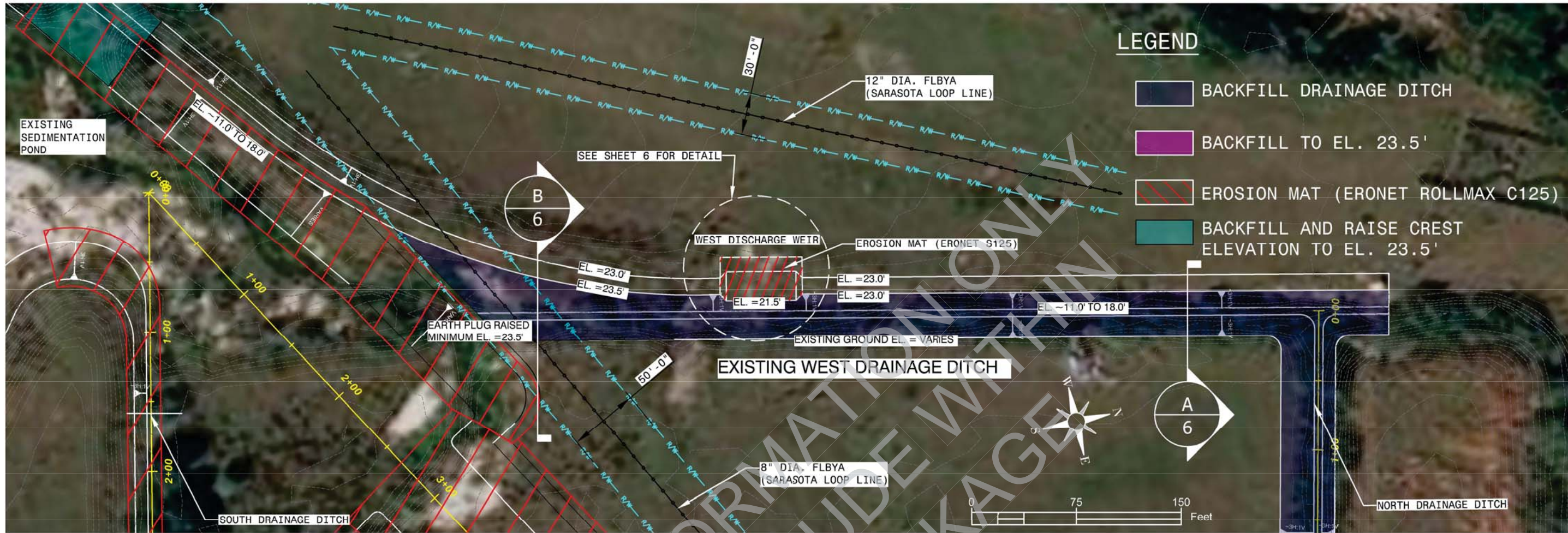
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MANATEE COUNTY UTILITIES DEPARTMENT
EMERGENCY SPILLWAY MODIFICATIONS
EMERGENCY SPILLWAY CROSS SECTIONS B, C & DETAILS
MANATEE COUNTY, FLORIDA

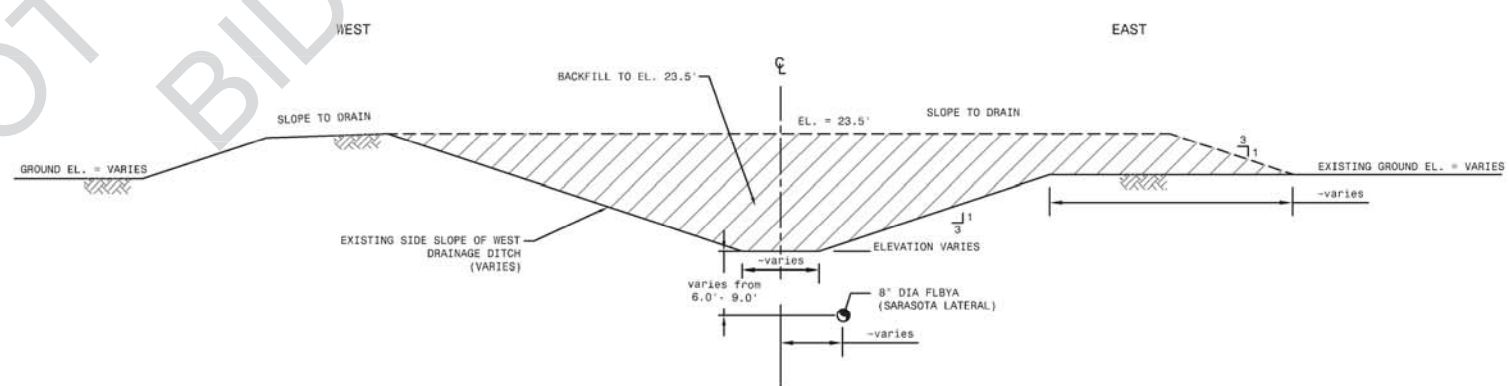
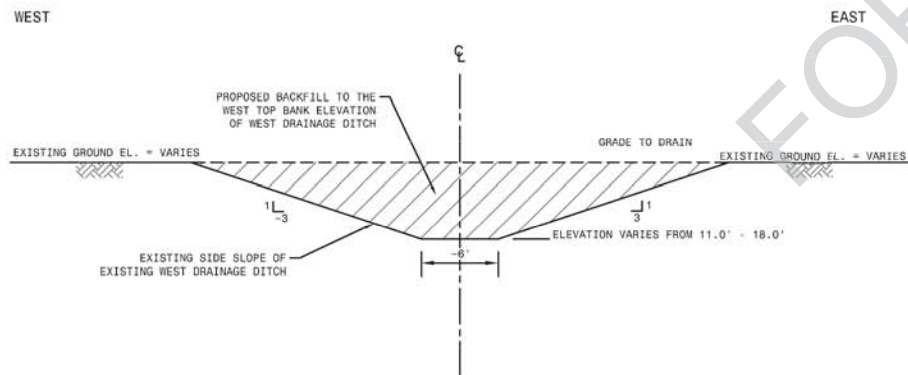
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PROPOSED WEST DRAINAGE DITCH BACKFILL

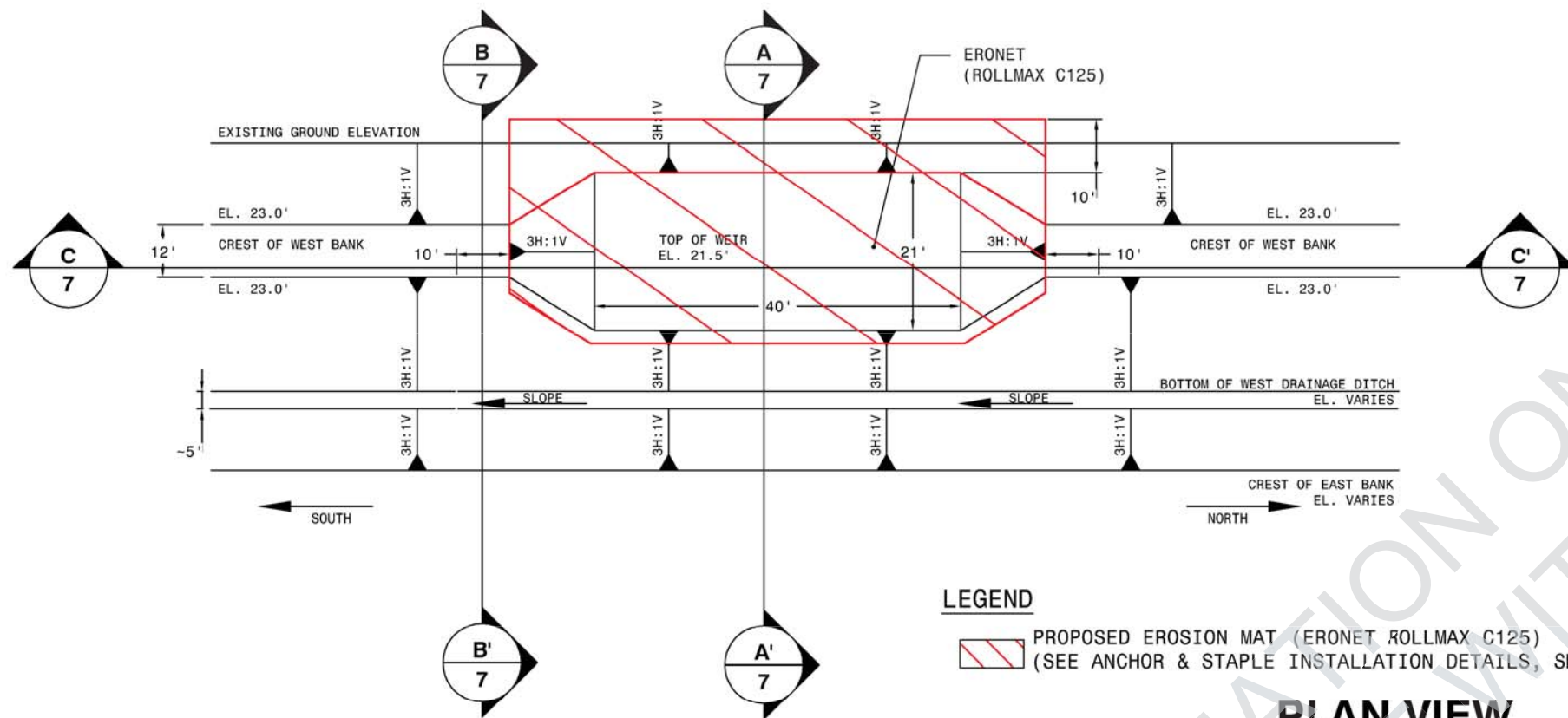


A TYPICAL WEST DRAINAGE DITCH BACKFILL
NOT TO SCALE

B TYPICAL WEST DRAINAGE DITCH EARTH PLUS
NOT TO SCALE

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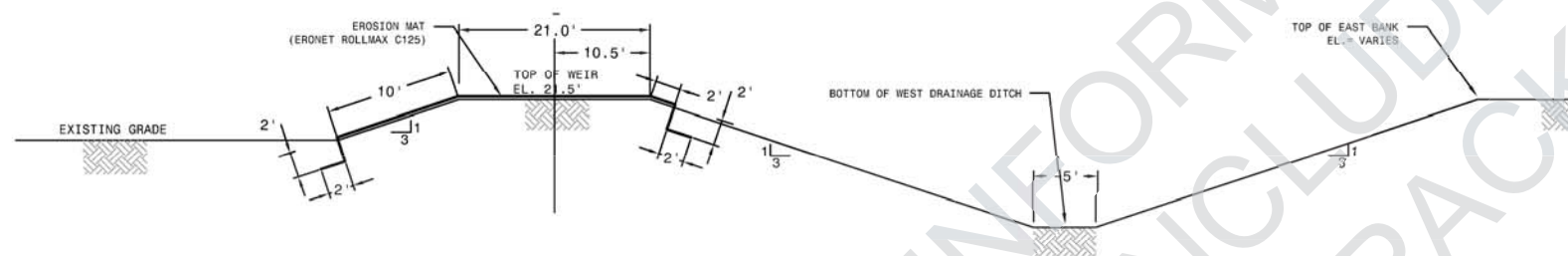
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DATE: February 7, 2018 DRAWN BY: M.VIVES CHECKED BY: M.CHOMTID PROJECT NO.: 300472X4				
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LEGEND
PROPOSED EROSION MAT (ERONET ROLLMAX C125)
(SEE ANCHOR & STAPLE INSTALLATION DETAILS, SHEET 7)

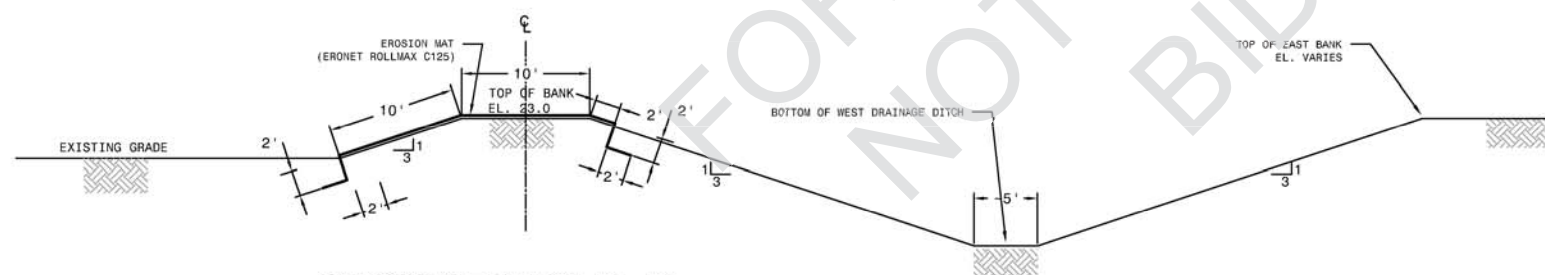
PLAN VIEW

NTS



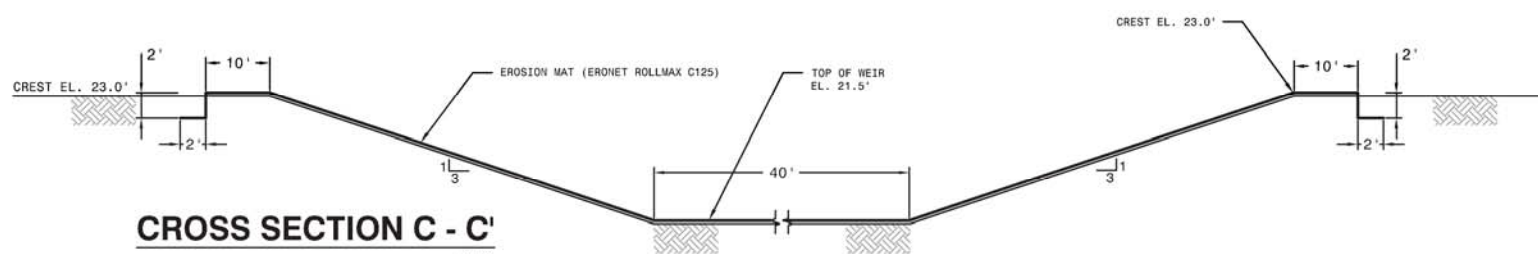
CROSS SECTION A - A'

NTS



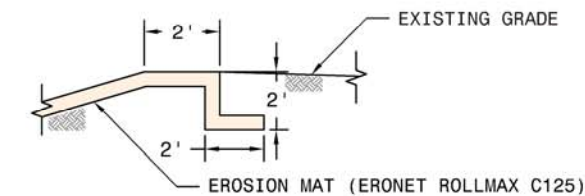
CROSS SECTION B - B'

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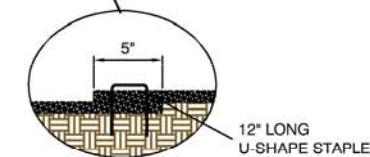
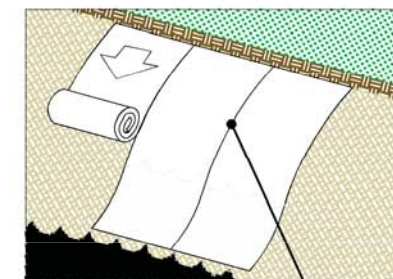


CROSS SECTION C - C'

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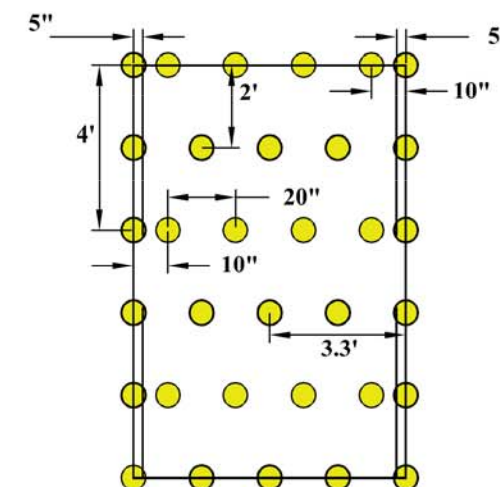


TYPICAL ANCHOR INSTALLATION DETAIL



TYPICAL EROSION MAT INSTALLATION DETAIL

● STAPLE LOCATION



3.75 Staples per SQ.YD.

TYPICAL EROSION MAT STAPLE DETAIL

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EMERGENCY SPILLWAY MODIFICATIONS
WEST DISCHARGE WEIR PLAN, SECTIONS & DETAILS
MANATEE COUNTY, FLORIDA

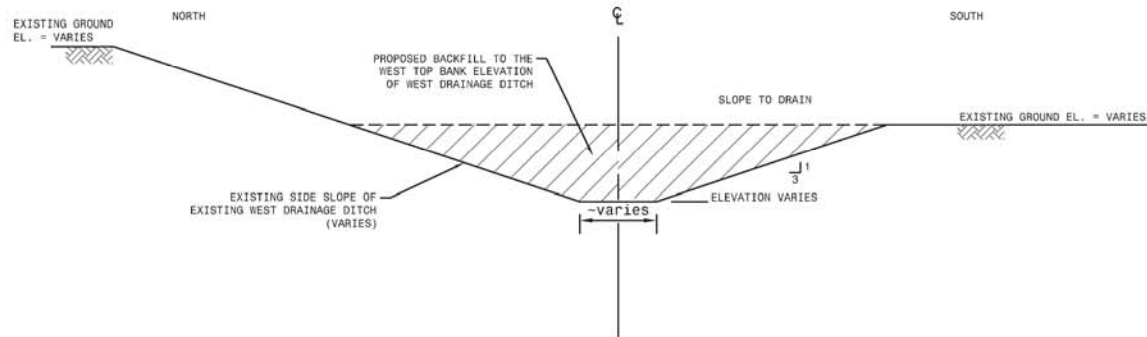
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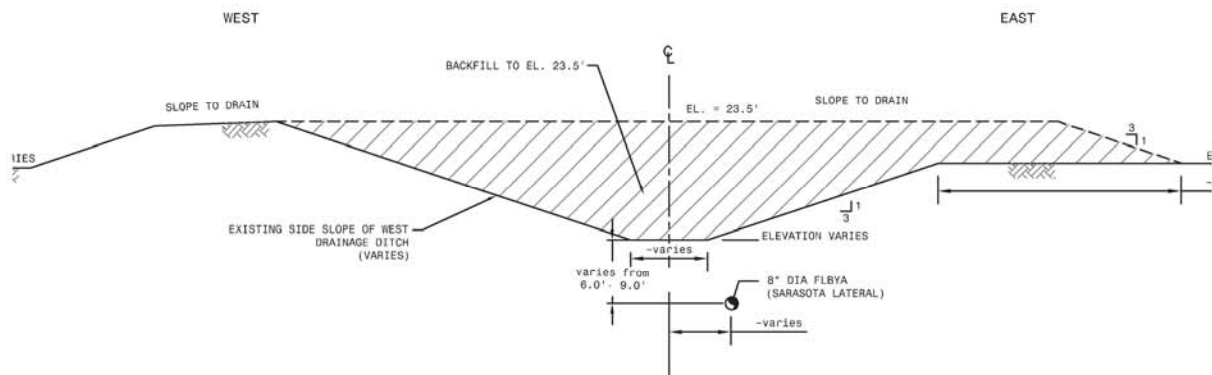


PROPOSED NORTH DRAINAGE DITCH BACKFILL



TYPICAL NORTH DRAINAGE DITCH BACKFILL

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TYPICAL NORTH DRAINAGE DITCH BACKFILL OVER 8"-DIA. FLBYA

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EMERGENCY SPILLWAY MODIFICATION
DRAINAGE DITCH BLOCK LOCATION PLAN
MANATEE COUNTY, FLORIDA

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PROJECT NO.: 300472X4




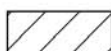
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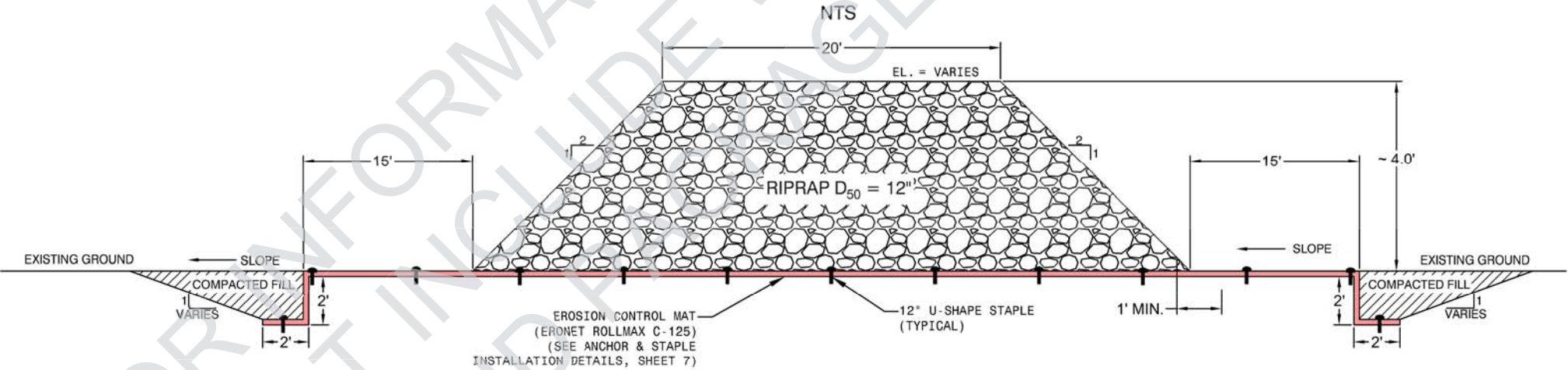


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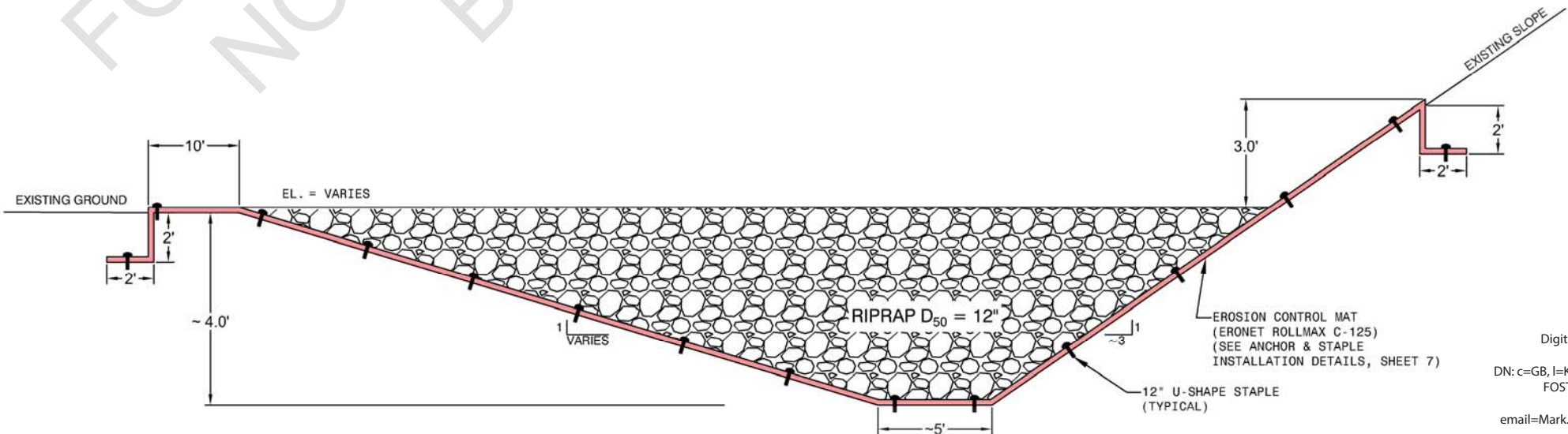
 EROSION CONTROL MAT (ERONET ROLLMAX C-125)
(SEE ANCHOR & STAPLE INSTALLATION DETAILS, SHEET 7)

 DRAINAGE DITCH BLOCK

CROSS SECTION A
NTS



CROSS SECTION B
NTS



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EMERGENCY SPILLWAY MODIFICATION
TYPICAL DRAINAGE BLOCK PLAN SECTION
MANATEE COUNTY, FLORIDA

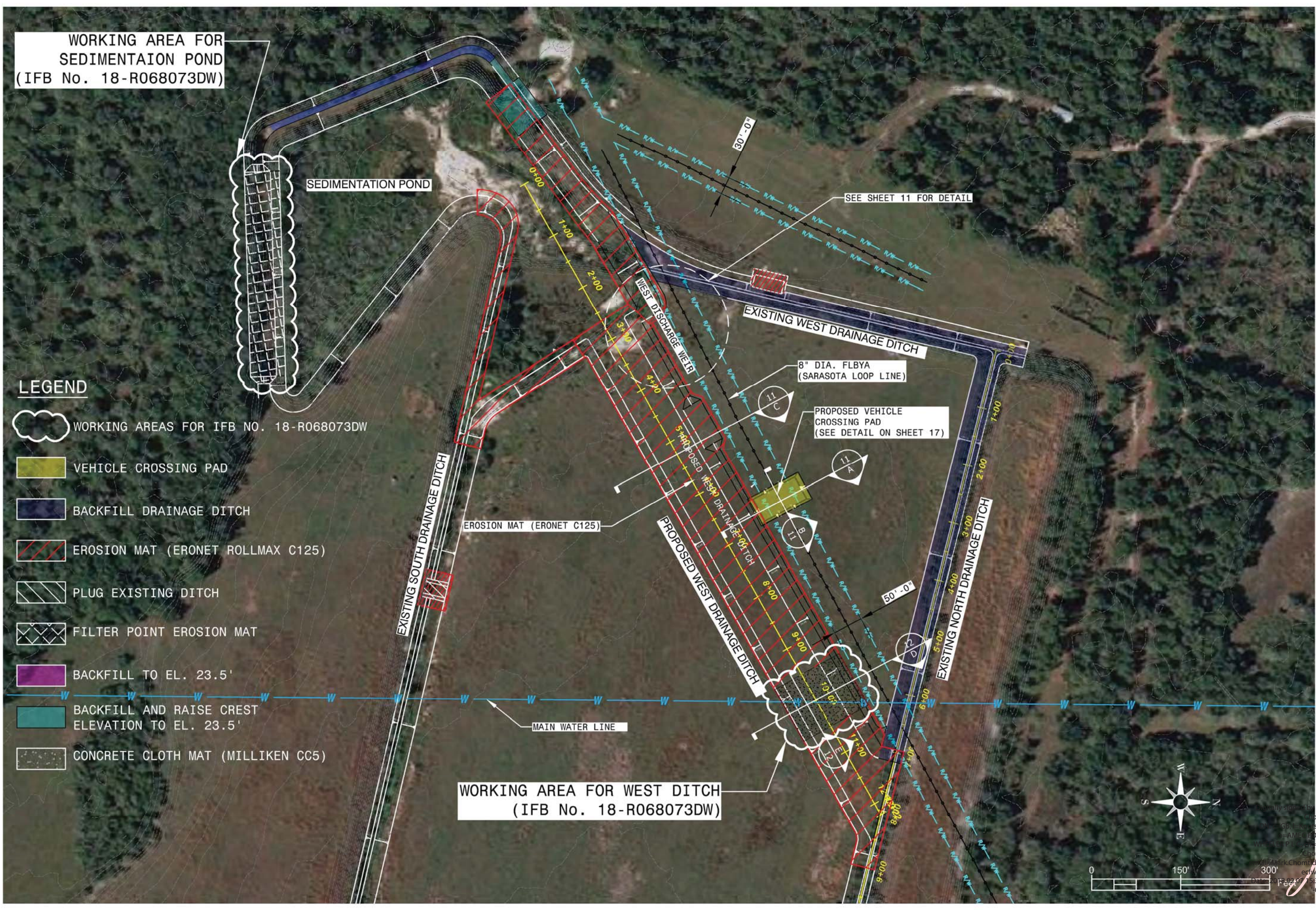
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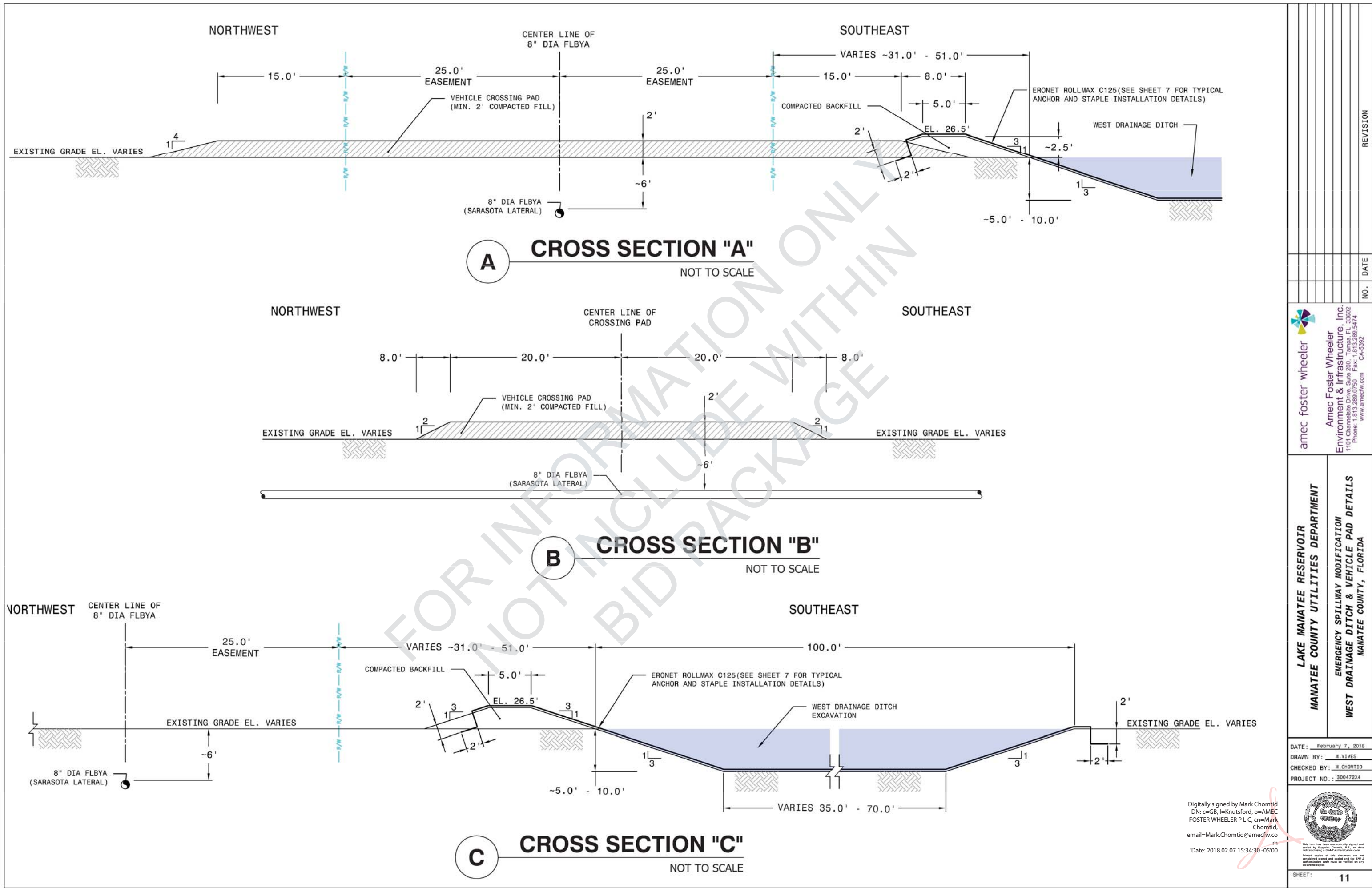
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LEGEND

- WORKING AREAS FOR IFB NO. 18-R068073DW
- VEHICLE CROSSING PAD
- BACKFILL DRAINAGE DITCH
- EROSION MAT (ERONET ROLLMAX C125)
- PLUG EXISTING DITCH
- FILTER POINT EROSION MAT
- BACKFILL TO EL. 23.5'
- BACKFILL AND RAISE CREST ELEVATION TO EL. 23.5'
- CONCRETE CLOTH MAT (MILLIKEN CC5)

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EMERGENCY SPILLWAY MODIFICATIONS WEST DRAINAGE DITCH & VEHICLE PAD PLAN MANATEE COUNTY, FLORIDA				
DATE: February 7, 2018				
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PROJECT NO.: 300472x4				
				
SHEET: 10				



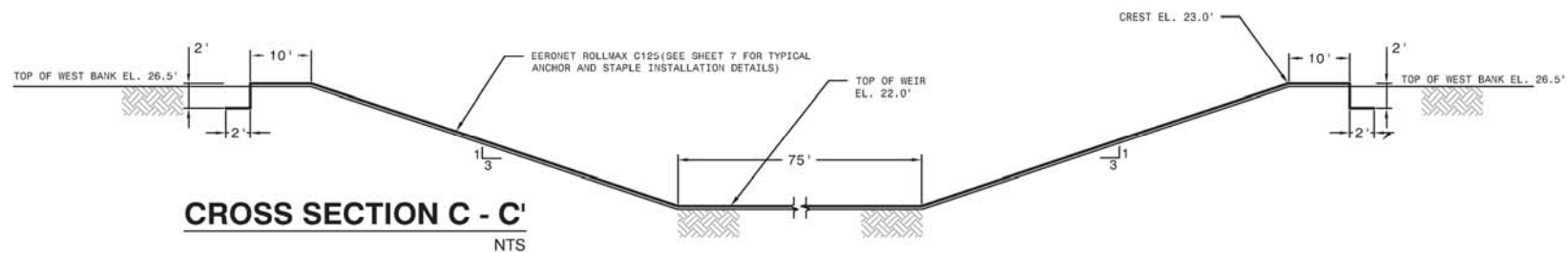
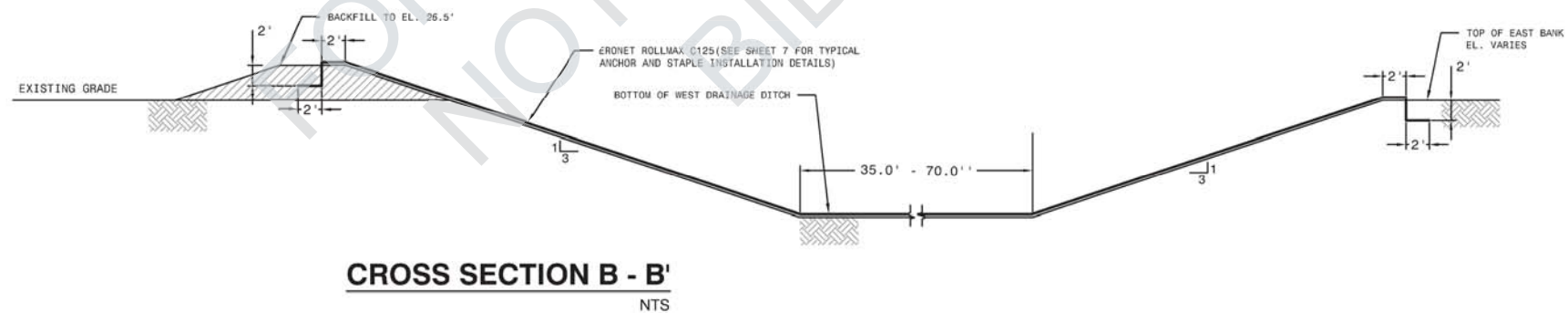
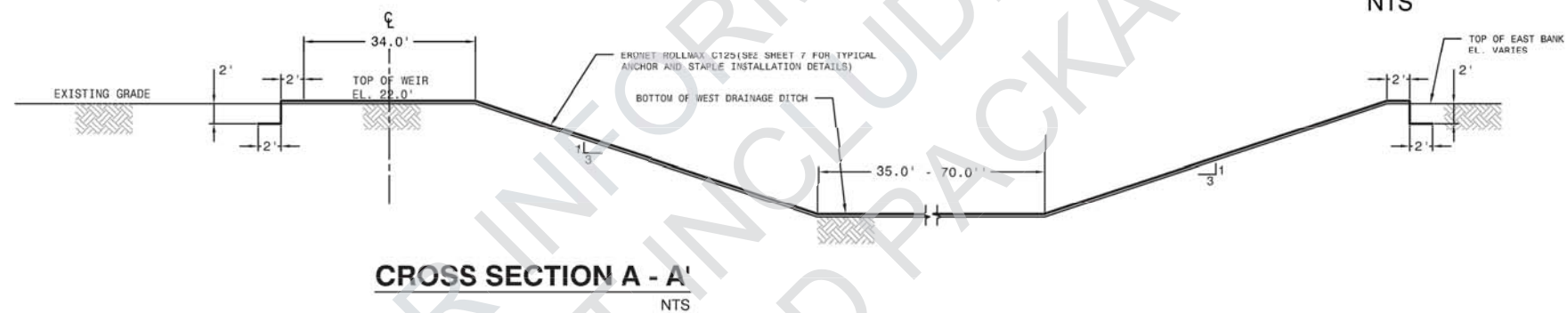
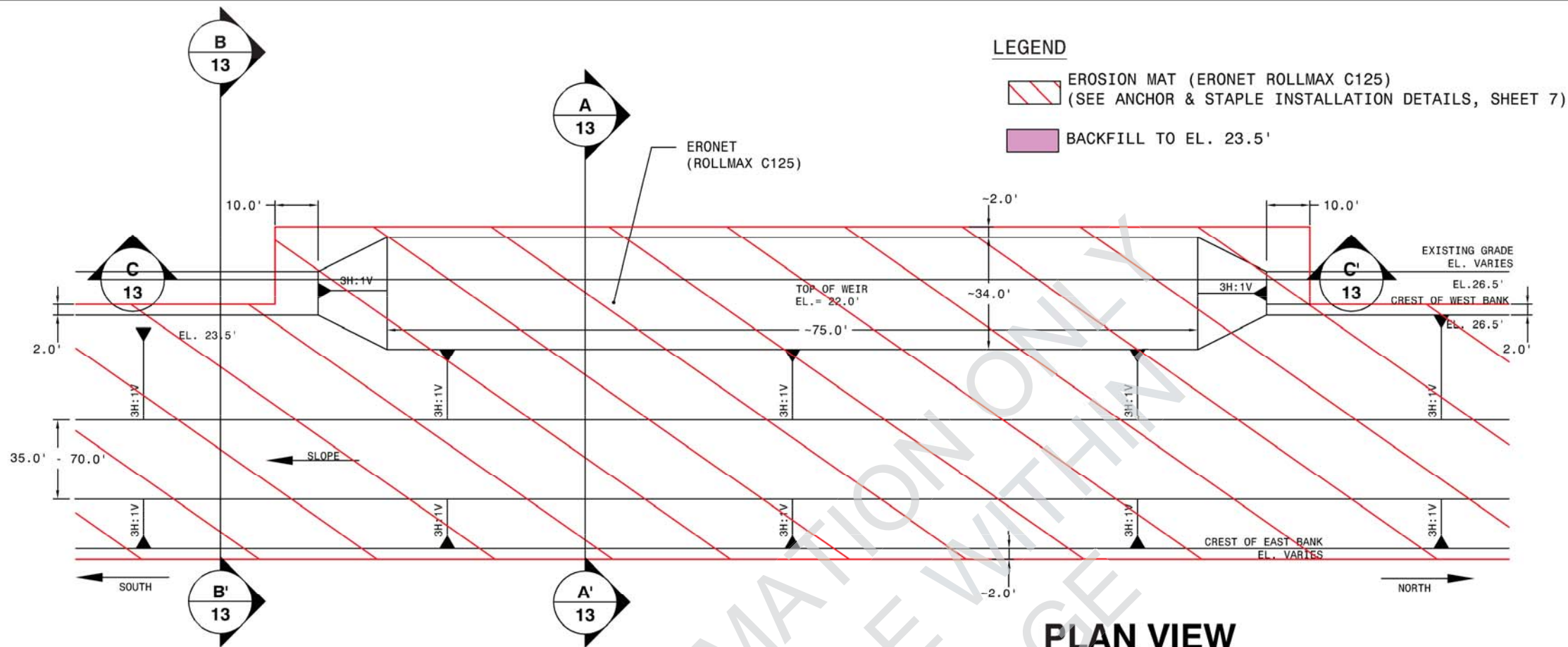
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EMERGENCY SPILLWAY MODIFICATION
WEST DRAINAGE DITCH & VEHICLE PAD DETAILS
MANATEE COUNTY, FLORIDA

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EMERGENCY SPILLWAY MODIFICATIONS
WEST DISCHARGE WEIR DETAIL
MANATEE COUNTY, FLORIDA

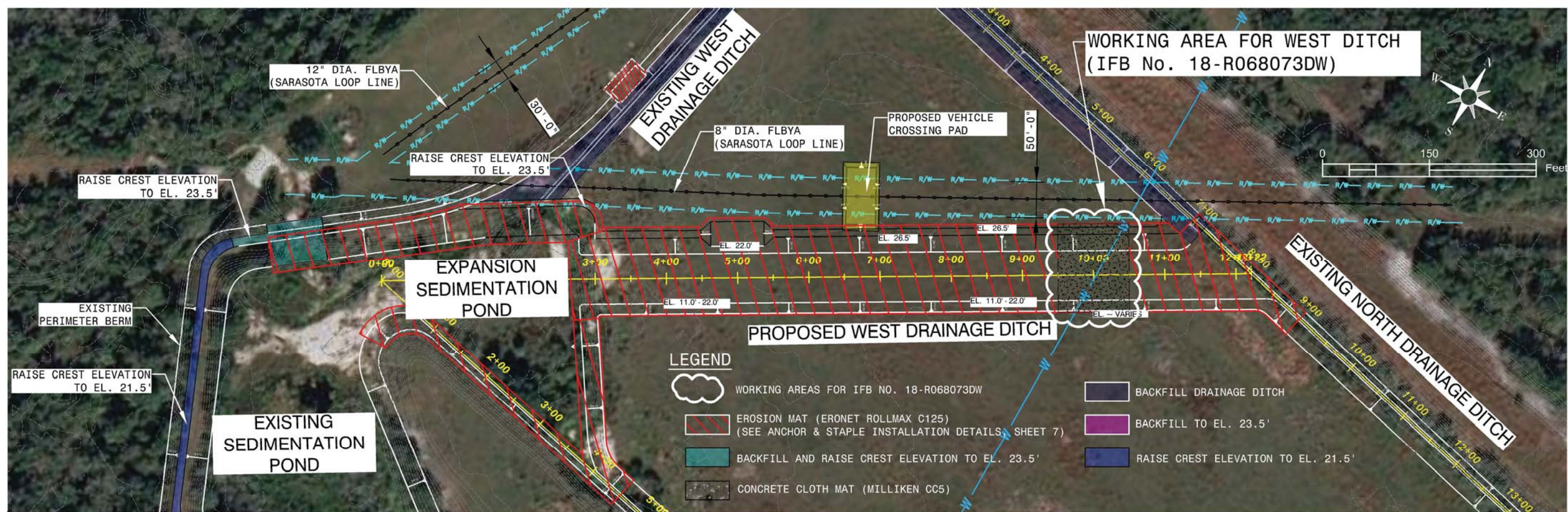
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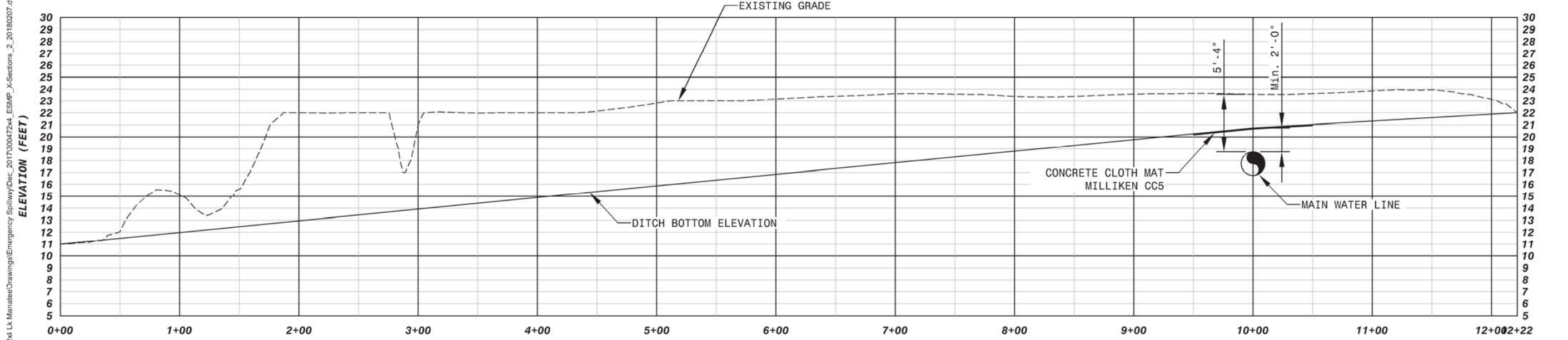


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SHEET: 13



PROPOSED WEST DRAINAGE DITCH



STATIONS 0+00.00 - 12+21.60

PROPOSED WEST DRAINAGE DITCH CENTERLINE PROFILE

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DN: c=GB, l=Knutsford, o=AMEC
FOSTER WHEELER P L C,
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email=Mark.Chomtid@amecfw.com
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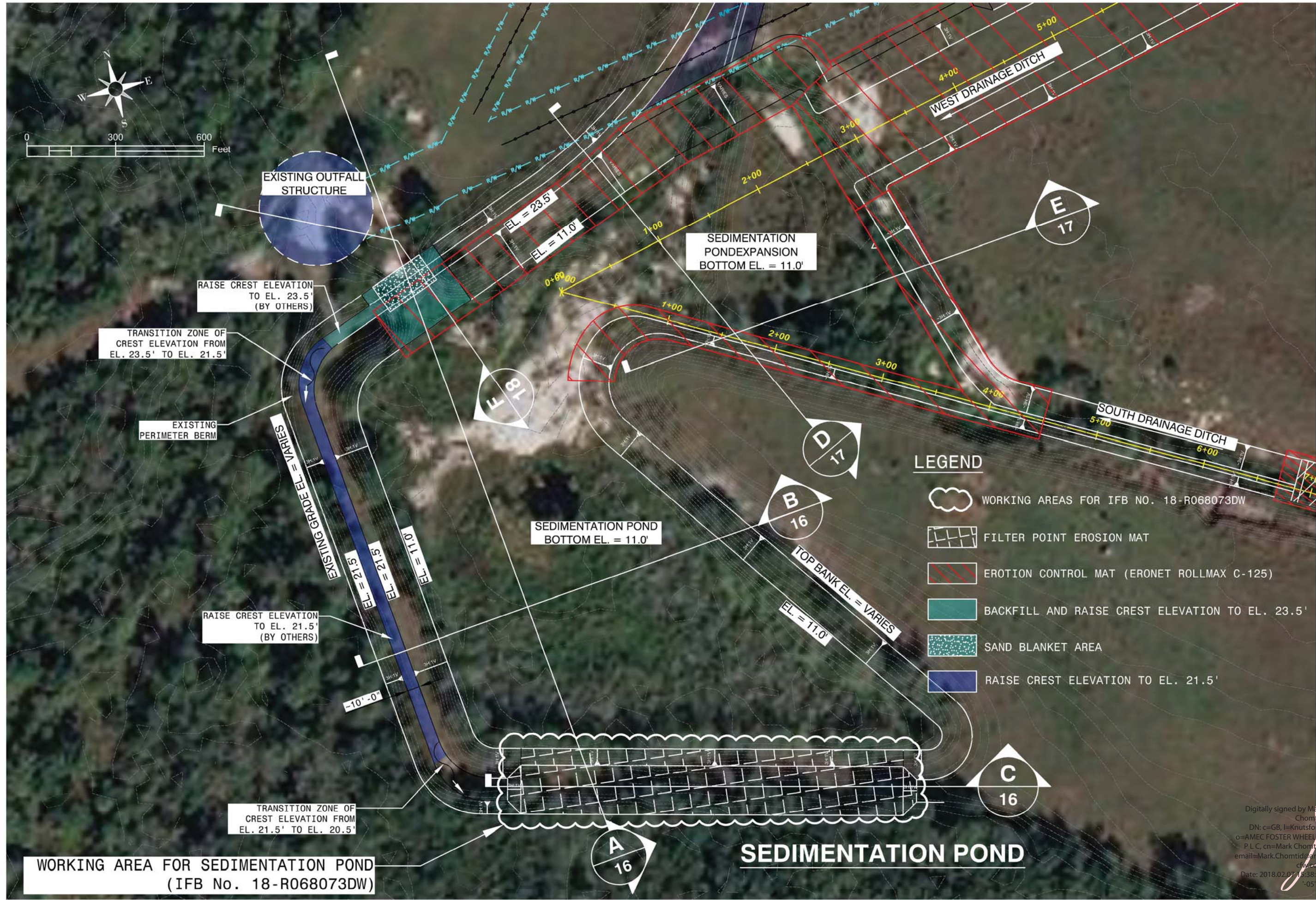
EMERGENCY SPILLWAY MODIFICATION
WEST DRAINAGE DITCH PLAN & PROFILE
MANATEE COUNTY, FLORIDA

DATE: February 7, 2018
DRAWN BY: M.VIVES
CHECKED BY: M.CHOWTID
PROJECT NO.: 300472X4

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Environment & Infrastructure, Inc.
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EMERGENCY SPILLWAY MODIFICATIONS
SEDIMENTATION POND GRADING PLAN
MANATEE COUNTY, FLORIDA

DATE: February 7, 2018
DRAWN BY: M.VIVES
CHECKED BY: M.CHOMTID
PROJECT NO.: 300472x4

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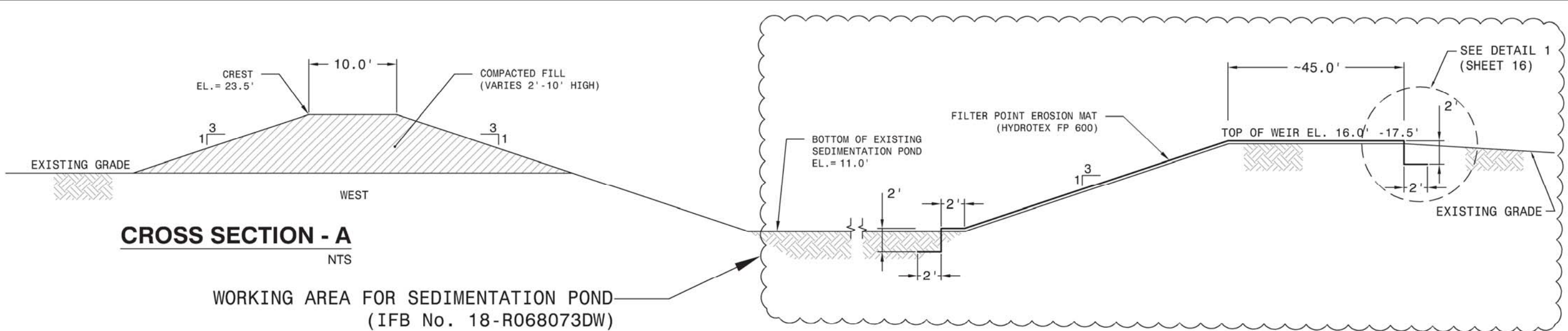
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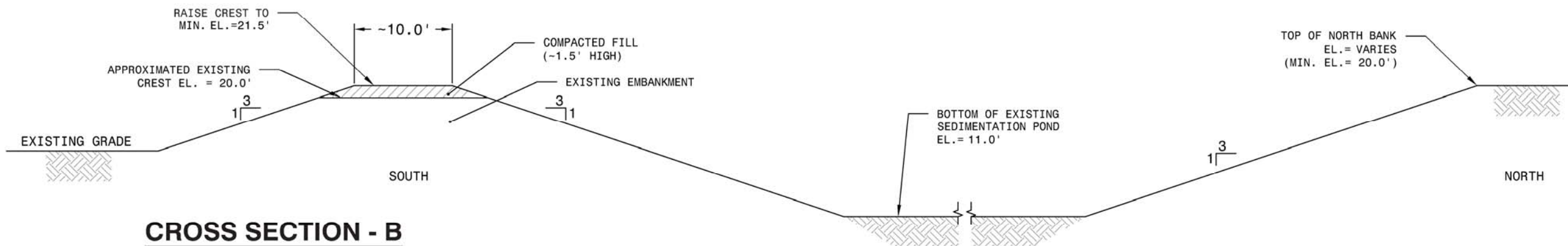
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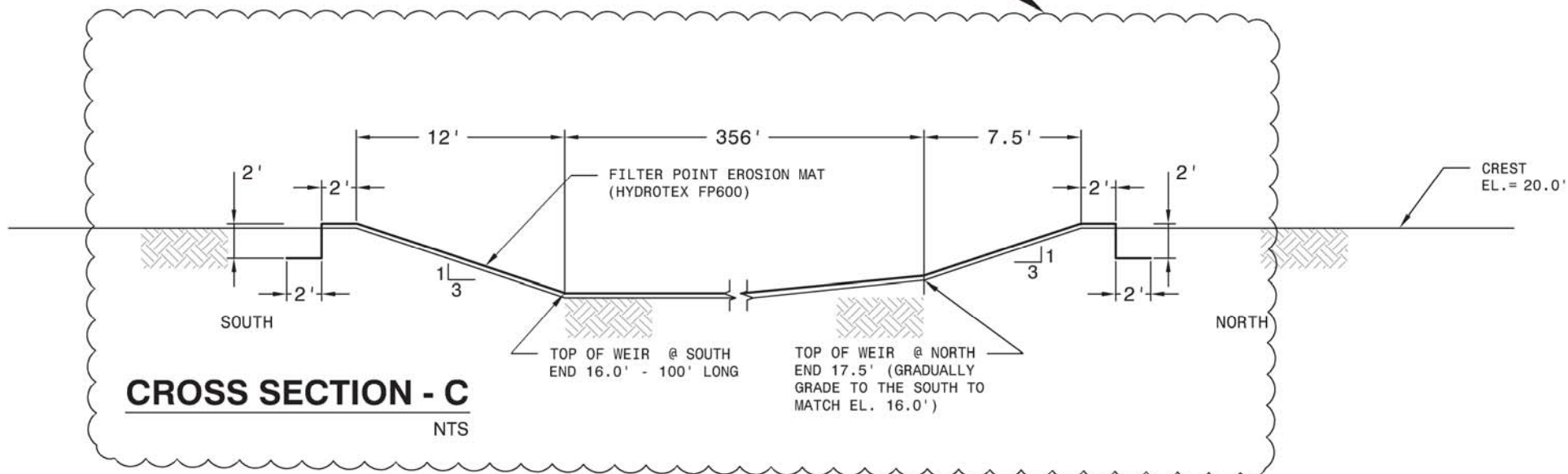
CROSS SECTION - A
NTS

WORKING AREA FOR SEDIMENTATION POND
(IFB No. 18-R068073DW)



CROSS SECTION - B
(FOR INFORMATION ONLY) NTS

WORKING AREA FOR SEDIMENTATION POND
(IFB No. 18-R068073DW)

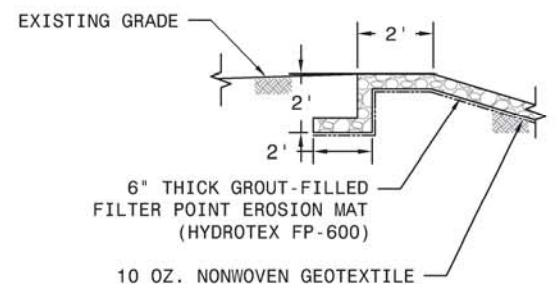


CROSS SECTION - C
NTS

SECTIONS VIEW
NTS

1

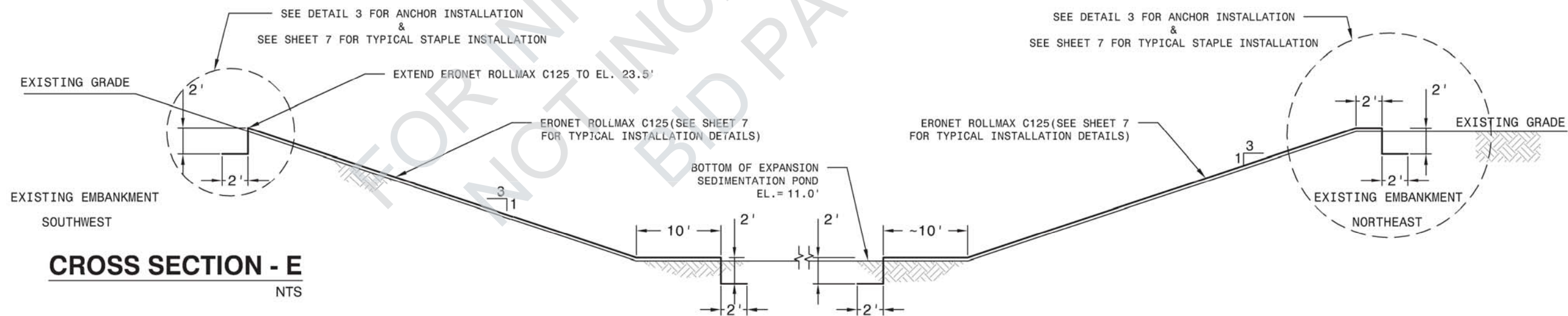
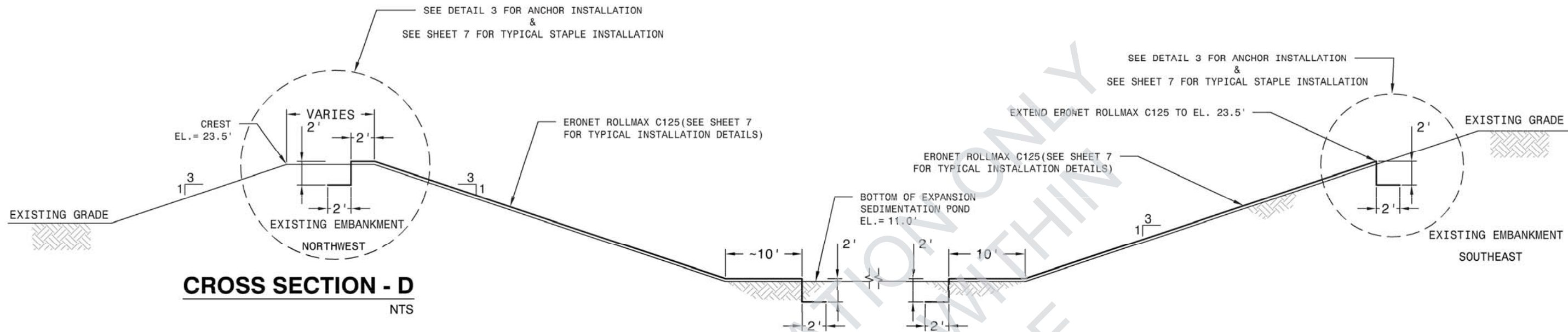
TYPICAL ANCHOR DETAIL
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EMERGENCY SPILLWAY MODIFICATIONS		SEDIMENTATION POND CROSS SECTIONS A - C DETAILS	
MANATEE COUNTY, FLORIDA			
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SECTIONS VIEW

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Amec Foster Wheeler
Environment & Infrastructure, Inc.
1101 Channelis Drive, Suite 200, Tampa, FL 33602
Phone: 1.813.289.0750 Fax: 1.813.289.3474
www.amecfw.com CA-5352

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MANATEE COUNTY UTILITIES DEPARTMENT
EMERGENCY SPILLWAY MODIFICATIONS
SEDIMENTATION POND CROSS SECTIONS D & E DETAILS
MANATEE COUNTY, FLORIDA

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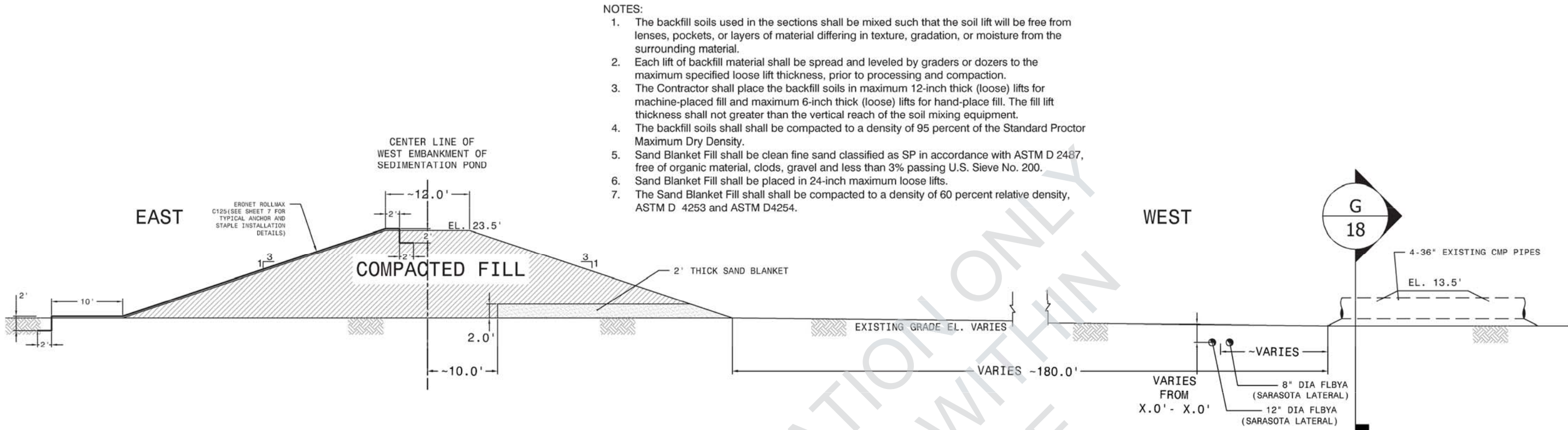
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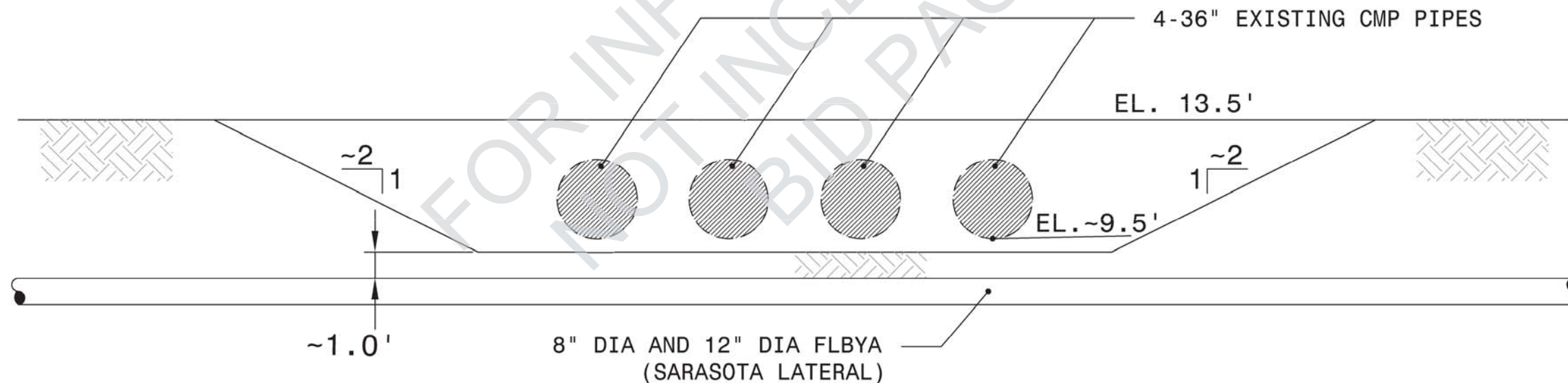
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CROSS SECTION - F

NTS



CROSS SECTION - G

NTS

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Amec Foster Wheeler
Environment & Infrastructure, Inc.
1101 Channelside Drive, Suite 200, Tampa, FL 33602
Phone: 1.813.289.0750 Fax: 1.813.289.3474
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EMERGENCY SPILLWAY MODIFICATIONS
SEDIMENTATION POND CROSS SECTIONS F & G DETAILS
MANATEE COUNTY, FLORIDA

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DRAWN BY: M.VIVES
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