

# ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

## UPPER OCKLAWAHA RIVER BASIN

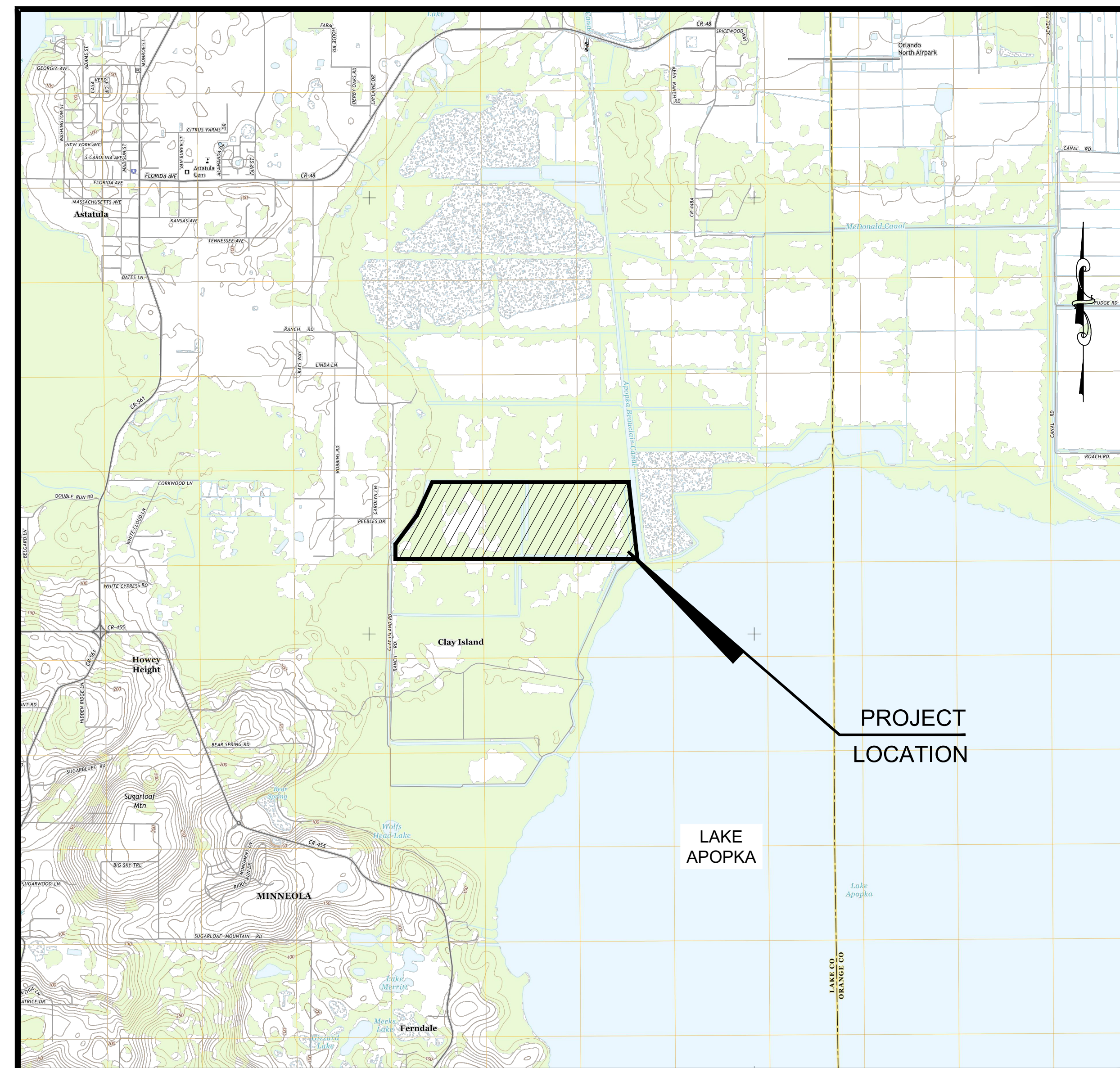
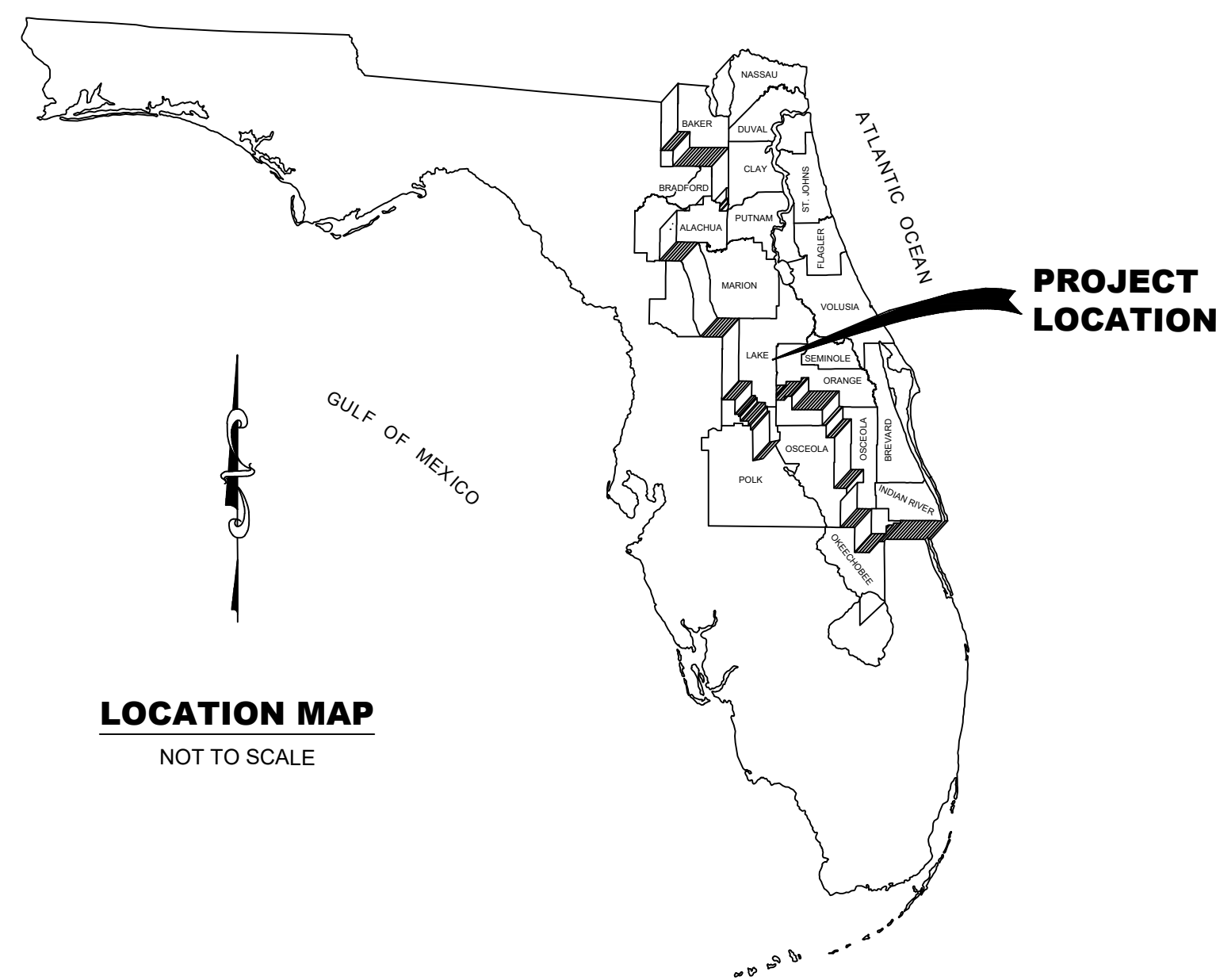
### LAKE APOPKA MARSH FLOW-WAY C1 AND C2 CELL MAINTENANCE IMPROVEMENTS

LAKE COUNTY, FLORIDA



**NAVD 1988**

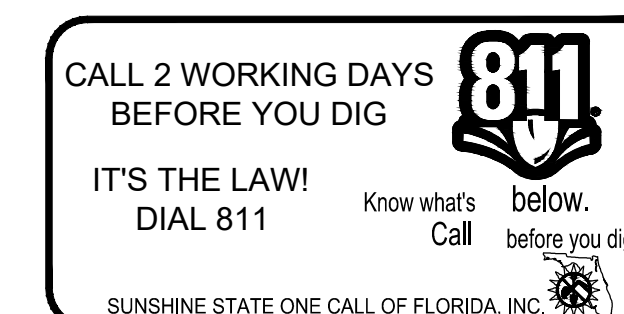
ALL ELEVATIONS DEPICTED HEREIN REFERENCE NAVD 1988 UNLESS OTHERWISE NOTED. THE CONVERSION FACTOR TO NGVD 1929 IS +1.09.



| SHEET NO. | SHEET TITLE                                   |
|-----------|---|
| C1        | COVER SHEET                                   |
| C2        | GENERAL NOTES AND DITCH SECTIONS              |
| C3        | OVERALL IMPROVEMENTS PLAN                     |
| C4        | CELL C1 - GRADING & DRAINAGE PLAN             |
| C5        | CELL C1 - NORTH CROSS SECTION (FACING NORTH)  |
| C6        | CELL C1 - CENTER CROSS SECTION (FACING NORTH) |
| C7        | CELL C1 - SOUTH CROSS SECTION (FACING NORTH)  |
| C8        | CELL C2 - GRADING & DRAINAGE PLAN             |
| C9        | CELL C2 - NORTH CROSS SECTION (FACING NORTH)  |
| C10       | CELL C2 - CENTER CROSS SECTION (FACING NORTH) |
| C11       | CELL C2 - SOUTH CROSS SECTION (FACING NORTH)  |
| C12       | DETAILS                                       |

**ENGINEER'S NOTES:**

- These drawings are prepared for the sole and exclusive use of the St. Johns River Water Management District and shall not be relied upon by any other entity or individual.
- Reproductions of these drawings are "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED ENGINEER."

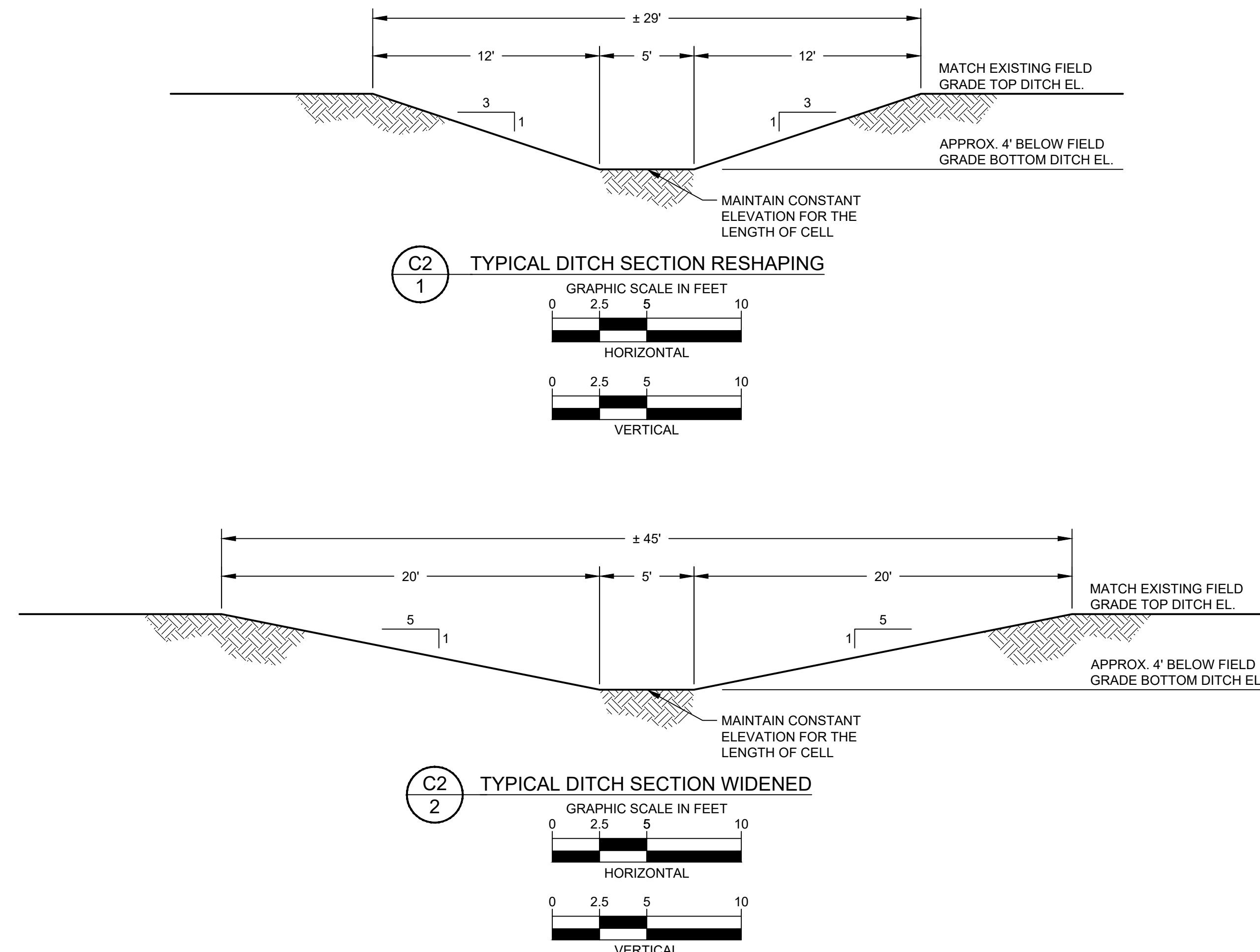


| NO. | REVISION       | BY     | DATE     | APPROVED | DATE     |
|-----|----------------|--------|----------|----------|----------|
| 1   | ISSUED FOR BID | N.J.G. | 08/04/20 | R.J.N.   | 08/04/20 |

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|                      |                      |
|----------------------|----------------------|
| CERTIFICATION:       | DRAWING FILENAME:    |
| ROBERT J. NALEWAY    | C-01 COVER SHEET.dwg |
| P.E. NUMBER: 53197   | SHEET:               |
| DATE: AUGUST 4, 2020 | C1                   |



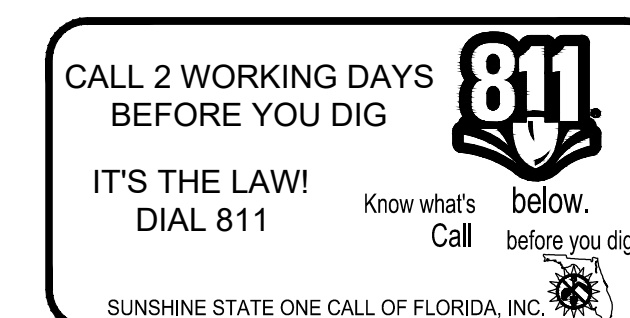


**GENERAL NOTES:**

1. IT IS NECESSARY TO DEWATER EACH CELL PRIOR TO COMMENCING CLEARING OPERATIONS.
  - A. IT HAS BEEN FOUND THAT LOWERING THE WATER IN EACH LATERAL DITCH IS THE MOST EFFICIENT WAY TO COMPLETE THE PROJECT. THIS CAN BE ACCOMPLISHED BY LOWERING THE BOARDS ON THE INLET RISERS SUCH THAT WATER DRAINS WITHOUT EXCESS VEGETATION CLOGGING THE OUTLET PIPES. IF THE OUTLET PIPES CLOG, IT WILL BE NECESSARY TO FLUSH THE PIPE TO MAINTAIN FLOW.
  - B. THE SECOND STEP IS TO ROUGH GRADE ALL LATERAL DITCHES TO DRAIN, EXCESS MATERIAL TO BE SIDE-CAST INTO CELL.
  - C. IT SHOULD BE NOTED THAT THE INLET STRUCTURES MAY LEAK AND IT MAY BE NECESSARY TO INSTALL PUMP IN THE INLET SPREADER DITCH TO KEEP THE WATER FROM FLOWING THROUGH THE CELL DURING CONSTRUCTION.
  - D. DISTRICT STAFF WILL NOT BE RESPONSIBLE FOR LOWERING THE BOARDS (REFER TO NOTE #6).
2. THE INTAKE STRUCTURES ARE KNOWN TO LEAK AND DRYING THE CELLS WILL BE DIFFICULT WITHOUT ADDITIONAL MEASURES TO PREVENT FLOW THROUGH THE INTAKE STRUCTURES.
3. ANY MEASURES OR COFFER DAMS USED TO REDUCE LEAKAGE FROM THE INTAKE STRUCTURE SHALL BE INTERNAL TO THE CELLS. UNDER NO CIRCUMSTANCES SHOULD THE CONTRACTOR PLACE MATERIAL IN THE CHANNELS SUPPLYING WATER TO THE CELLS.
4. THE CONTRACTOR SHALL SUBMIT ANY PLANS FOR DEWATERING PRIOR TO CONSTRUCTION.
5. THERE ARE RISER STRUCTURES (INTERNAL STRUCTURES) LOCATED AT THE SOUTHERN END OF THE INTERNAL DITCHES WITHIN EACH OF THE CELLS AS SHOWN ON THE PLANS. THESE STRUCTURES CAN BE USED FOR DEWATERING INTERNAL PORTIONS OF THE CELL. HOWEVER, THESE DITCHES AND CULVERTS ARE LIKELY BLOCKED WITH SEDIMENT, VEGETATION AND DEBRIS. TO AID IN DEWATERING THE CONTRACTOR MAY FLUSH THE CULVERTS AND REMOVE MATERIAL FROM THE INTERNAL DITCHES AND SIDE SPREAD IT WITHIN THE CELL.
6. THE CONTRACTOR WILL MANAGE THE 2 x 6 BOARDS CURRENTLY BLOCKING THE SIDE STRUCTURES. THE CONTRACTOR WILL NOTIFY THE DISTRICT OF NEEDS TO REMOVE OR REPLACE BOARDS. THE DISTRICT WILL REVIEW THE NEED TO REMOVE BOARDS AND APPROVE THE CONTRACTOR TO MAKE THE BOARD CHANGES.
7. CONTRACTOR TO BREAK UP ALL VEGETATION WITHIN THE ENTIRE CELL LIMITS. THE BROKEN UP VEGETATION SHALL BE MIXED WITH THE SURFACE SOILS WITHIN THE CELL. AFTER GRADING THERE SHOULD BE NO DEBRIS LARGER THAN 4 FEET IN LENGTH. ANY WOOD OR STUMPS LARGER THAN 3 INCHES IN DIAMETER SHOULD BE BURIED SO THAT IT IS NOT VISIBLE AFTER FINAL GRADING.
8. GRADING SHALL BE +/- 0.2 FEET OF THE TARGET ELEVATION OF EACH SUBCELL AS MARKED ON THE PLANS. THE CONTRACTOR MAY BUILD UP MATERIAL ON THE INSIDE EDGE OF THE CELLS WITHIN A WIDTH 100 FEET OF THE CELL NORTHERN AND SOUTHERN LEVEES. THIS IS INTENDED TO MAKE IT EASIER TO DEAL WITH HIGH SPOTS NEAR THE EDGES OF THE CELLS.
9. ALL MATERIAL EXCAVATED FROM THE DITCHES SHOULD BE SPREAD ACROSS THE FIELD SUCH THAT NO MOUNDS OR LOW SPOTS IN EXCESS OF THE 0.2' TOLERANCE RESULTS.
10. THE FINAL FIELD ELEVATION FOR AN INDIVIDUAL SUB-CELL SHOWN IN THE PLANS IS AN APPROXIMATION. IF AFTER CLEARING AND ROUGH GRADING, THE CONTRACTOR FINDS THE ELEVATION OF EXISTING MATERIAL IS MORE OR LESS THAN NEEDED TO REGRADE TO THE DESIRED ELEVATION, THE CONTRACTOR AND DISTRICT PROJECT MANAGER SHALL MEET TO ESTABLISH AN ALTERNATE ELEVATION FOR FINAL GRADING THAT WILL ACHIEVE A CUT-FILL BALANCE WITHIN A SUB-CELL. A COST CHANGE ORDER WILL NOT BE CONSIDERED FOR MINOR DEVIATIONS OF LESS THAN 1.5 FEET FROM THE FINAL GRADE SHOWN ON THE PLANS.
11. THE DISTRICT WILL MAINTAIN THE OUTFLOW CANAL WATER LEVEL AT ELEVATION +/- 60-61. HOWEVER, THIS ELEVATION IS MAINTAINED BY A PUMPED SYSTEM. IN THE EVENT THE PUMPS FAIL TO OPERATE, THE CONTRACTOR SHALL KEEP A RECORD OF ANY DOWN-TIME THAT RESULTS FROM PUMP FAILURE. TIME EXTENSIONS WILL BE GIVEN FOR ANY DOCUMENTED DOWN-TIME. A COST CHANGE ORDER WILL ONLY BE CONSIDERED IF THE CONTRACTOR CAN DEMONSTRATE THEY WERE NOT ABLE TO OPERATE FOR 4 OR MORE CONSECUTIVE DAYS AS A RESULT OF PUMP OUTAGES.
12. ONLY TIME EXTENSIONS WILL BE CONSIDERED FOR PROJECT WORK SLOW DOWNS OR STOPPAGES THAT RESULT FROM LARGE AMOUNTS OF RAINFALL. NO COST ADJUSTMENTS WILL BE CONSIDERED FOR WORK IMPACTED BY LARGE AMOUNTS OF RAINFALL.
13. NO RELOCATION OF MATERIAL IS EXPECTED TO BE REQUIRED FROM ONE SUBCELL TO ANOTHER. IF THE ELEVATIONS PROPOSED ON THE PLANS CANNOT BE ACHIEVED, THE CONTRACTOR SHALL NOTIFY THE DISTRICT PROJECT MANAGER AND A RESOLUTION SHALL BE DETERMINED AGREEABLE TO THE DISTRICT AND CONTRACTOR THAT DOES NOT REQUIRE MOVING MATERIAL FROM ONE SUBCELL TO ANOTHER.
14. DITCH SLOUGHING OF SIDE SLOPES MAY OCCUR. CONTRACTOR IS NOT REQUIRED TO REGRADE A DITCH ONCE THE INITIAL SIDE SLOPE IS ACHIEVED AND ACCEPTED BY THE DISTRICT, IF SLOUGHING OCCURS.
15. CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING MEASURES REQUIRED MORE THAN SIMPLE DRAINING OF THE CELLS DESCRIBED ABOVE. ANY DISCHARGE OF PUMPED WATER RESULTING FROM DEWATERING DISCHARGE SHALL GO INTO THE CELL NORTH OF THE C1 AND C2 CELLS. IF ALTERNATIVE DISCHARGE LOCATIONS ARE PROPOSED THEY SHALL BE APPROVED BY THE DISTRICT.
16. IF ANY STRUCTURES (SIDE, OR OUTLET) DO NOT OPERATE PROPERLY THE CONTRACTOR SHALL NOTIFY THE DISTRICT. FOUR(4) SIDE STRUCTURES CULVERTS AND RISER HAVE BEEN INCLUDED IN THE BID FOR THIS PROJECT, ASSUMING SOME OF THE STRUCTURES WILL BE ABLE TO MADE OPERABLE. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL NUMBER OF SIDE STRUCTURES AND CULVERT LENGTH REPLACED.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE CONDITION OF THE ROADS USED TO ACCESS THE PROJECT. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED WITHIN ONE WEEK AT NO ADDITIONAL COST TO THE DISTRICT.
18. IMPORTED FILL TO BE PLACED ONLY AS APPROVED BY PROJECT MANAGER.

**SPECIFICATIONS:**

1. TASKS RELATED TO MOBILIZATION SHALL ADHERE TO THE CURRENT REQUIREMENTS OF SECTION 101 (MOBILIZATION) OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
2. AREA IS AVAILABLE ADJACENT TO THE PROJECT AREA FOR EQUIPMENT STAGING AND MATERIALS STORAGE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH DISTRICT PROJECT MANAGER PRIOR TO BEGINNING MOBILIZATION.
3. WORK WILL BE CONSIDERED COMPLETE ONLY AFTER ALL RUBBISH AND UNUSED MATERIAL DUE TO OR CONNECTED WITH THE WORK HAS BEEN REMOVED AND THE PREMISES LEFT IN A CONDITION SATISFACTORY TO THE DISTRICT.
4. ALL PROPERTY DISTURBED OR DAMAGED DURING EXECUTION OF THE WORK SHALL BE RESTORED TO ITS FORMER CONDITION OR BETTER AT NO ADDITIONAL EXPENSE TO THE DISTRICT. FINAL PAYMENT WILL BE WITHHELD UNTIL SUCH CLEANUP IS COMPLETED AND APPROVED BY THE DISTRICT.



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|     |          |    |      |          |      |

**UPPER OCKLAWAHA RIVER BASIN  
LAKE APOPKA MARSH FLOW-WAY C1 AND C2 CELL  
MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA**

**ST. JOHNS RIVER  
WATER MANAGEMENT DISTRICT**  
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G.    DATE: AUGUST 4, 2020    REVIEWER: M.V.H.  
 SCALE: AS NOTED    DESIGNER: R.J.N.    SECTION CHIEF: M.V.H.

GENERAL NOTES AND DITCH SECTIONS

CERTIFICATION:

ROBERT J. NALEWAY

P.E. NUMBER: 53197

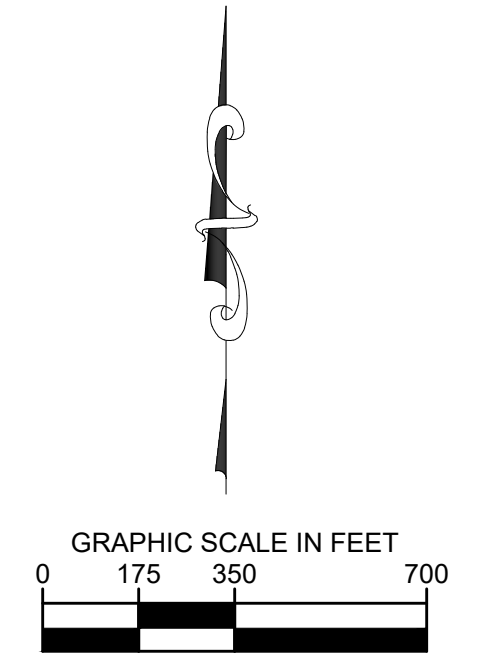
DATE: AUGUST 4, 2020

FILE NAME:  
C-02 GENERAL NOTES.dwg

PROJECT NO.:

SHEET:  
**C2**





- LEGEND:**
- EXISTING PUMP STATION
  - EXISTING ELEVATIONS (BOTTOM OF MUD)
  - PROPOSED ELEVATIONS
  - DITCH RESHAPING
  - DITCH WIDENING
  - EXISTING STRUCTURE
  - FLOW DIRECTION

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| 1   | ISSUED FOR BID | N.J.G. | 08/04/20 | R.J.N.   | 08/04/20 |

UPPER OCKLAWAHA RIVER BASIN  
 LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
 MAINTENANCE IMPROVEMENTS  
 LAKE COUNTY, FLORIDA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
 P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
 SCALE: 1" = 350' DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

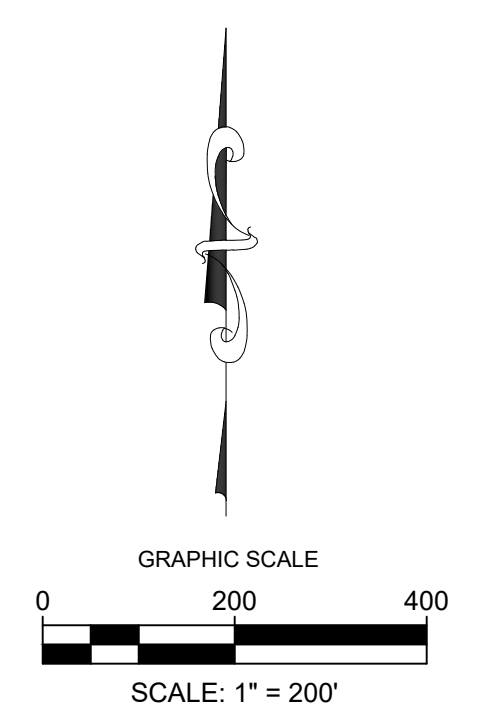
OVERALL IMPROVEMENTS PLAN

CERTIFICATION:  
 ROBERT J. NALEWAY  
 P.E. NUMBER: 53197  
 DATE: AUGUST 4, 2020

FILE NAME:  
 C-03 GRADING & DRAINAGE.dwg  
 PROJECT NO.:  
 SHEET:  
**C3**

U:\PROJECTS\LAKE AOPKA MARSH FLOW-WAY IMPROVEMENTS\LAKE AOPKA MARSH FLOW-WAY IMPROVEMENTS & DRAINAGE.dwg





- LEGEND:**
- 59.0 — EXISTING ELEVATIONS (BOTTOM OF MUD)
  - 59.5- PROPOSED ELEVATIONS
  - ▬ DITCH RESHAPING
  - ▬ DITCH WIDENING
  - EXISTING STRUCTURE
  - FLOW DIRECTION

DISCHARGE COLLECTOR DITCH TO BE CLEANED TO SHAPE SHOWN IN DETAIL C4/2. MATERIAL TO REMAIN IN THE CELL AND BE GRADED TO MEET THE INDIVIDUAL CELL ELEVATION REQUIREMENTS.

EXISTING DISCHARGE STRUCTURE (TYP.)

EXISTING DISCHARGE COLLECTOR DITCH

EXISTING DISCHARGE CANAL

NOTE: THE CONDITION OF THE EXISTING STRUCTURES AT THE SOUTH END OF THIS CELL IS UNKNOWN. IF SOME OF THESE ARE DEEMED UNREPAIRABLE BY THE CONTRACTOR AND DISTRICT THEY SHALL BE REPLACED AS SHOWN IN THE DETAILS ON SHEET C12. THE REPLACEMENT OF THE STRUCTURE AND PIPE SHALL BE APPROVED BY THE DISTRICT PRIOR TO ORDERING MATERIAL OR BEGINNING ANY WORK ON THE STRUCTURE.

IMPEDIMENTS TO FLOW TO BE REMOVED WITHIN THE DISCHARGE CANAL. THIS SHALL INCLUDE MOUNDS OR DELTAS OF ACCUMULATED MATERIAL. THIS MATERIAL TO BE GRADED INTO ADJACENT FIELDS AND GRADED TO MEET THE INDIVIDUAL CELL ELEVATION REQUIREMENTS.

BEGIN CELL C-1 NORTH ALIGNMENT  
NORTHING: 1580625.25  
EASTING: 431181.62

BEGIN CELL C-1 CENTER ALIGNMENT  
NORTHING: 1579759.50  
EASTING: 430909.50

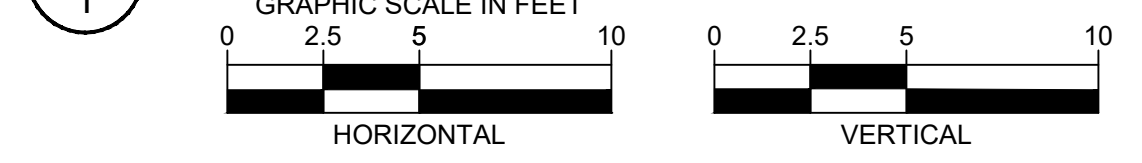
BEGIN CELL C-1 SOUTH ALIGNMENT  
NORTHING: 1578888.39  
EASTING: 430109.55

DEWATERING DITCH

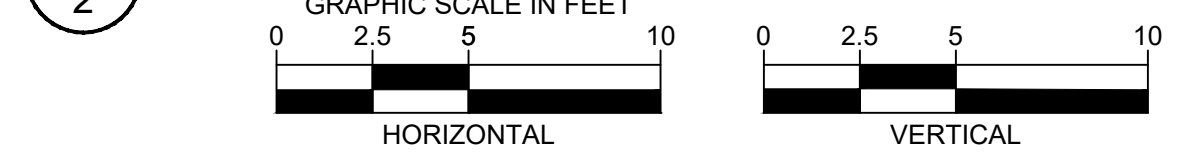
EXISTING INTERNAL MAINTENANCE ROAD

RESHAPE EXISTING DITCHES (11)  
SEE DETAIL C2/1

**C4/1 INTAKE DITCH SECTION**



**C4/2 DISCHARGE CANAL SECTION**



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|-----|----------|----|------|----------|------|
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UPPER OCKLAWAHA RIVER BASIN  
LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER  
WATER MANAGEMENT DISTRICT  
P.O. BOX 1429 PALATKA, FLORIDA

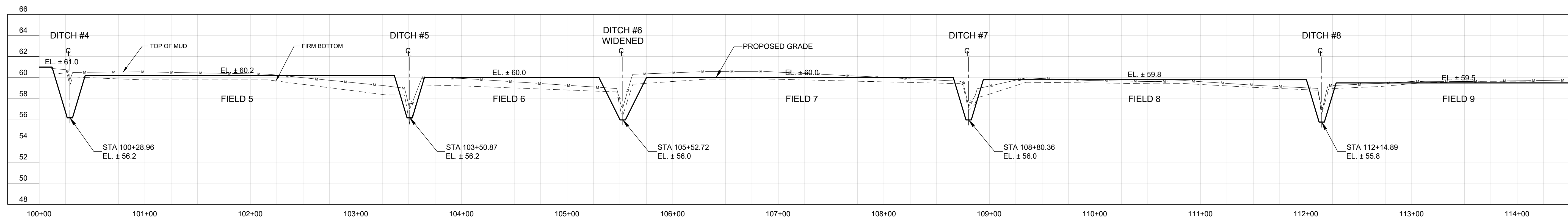
DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
SCALE: 1" = 200' DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

CELL C1 - GRADING & DRAINAGE PLAN

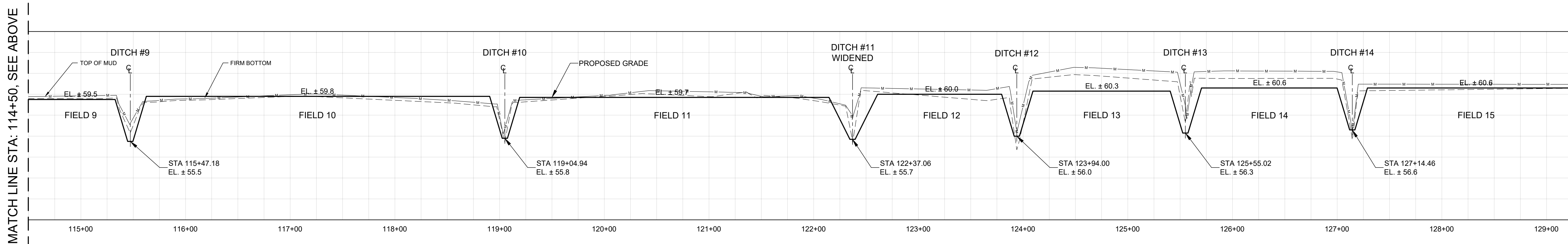
CERTIFICATION:  
ROBERT J. NALEWAY  
P.E. NUMBER: 53197  
DATE: AUGUST 4, 2020

FILE NAME:  
C-03 GRADING & DRAINAGE.dwg  
PROJECT NO.:  
SHEET:  
**C4**





MATCH LINE STA: 114+50, SEE BELOW



MATCH LINE STA: 114+50, SEE ABOVE

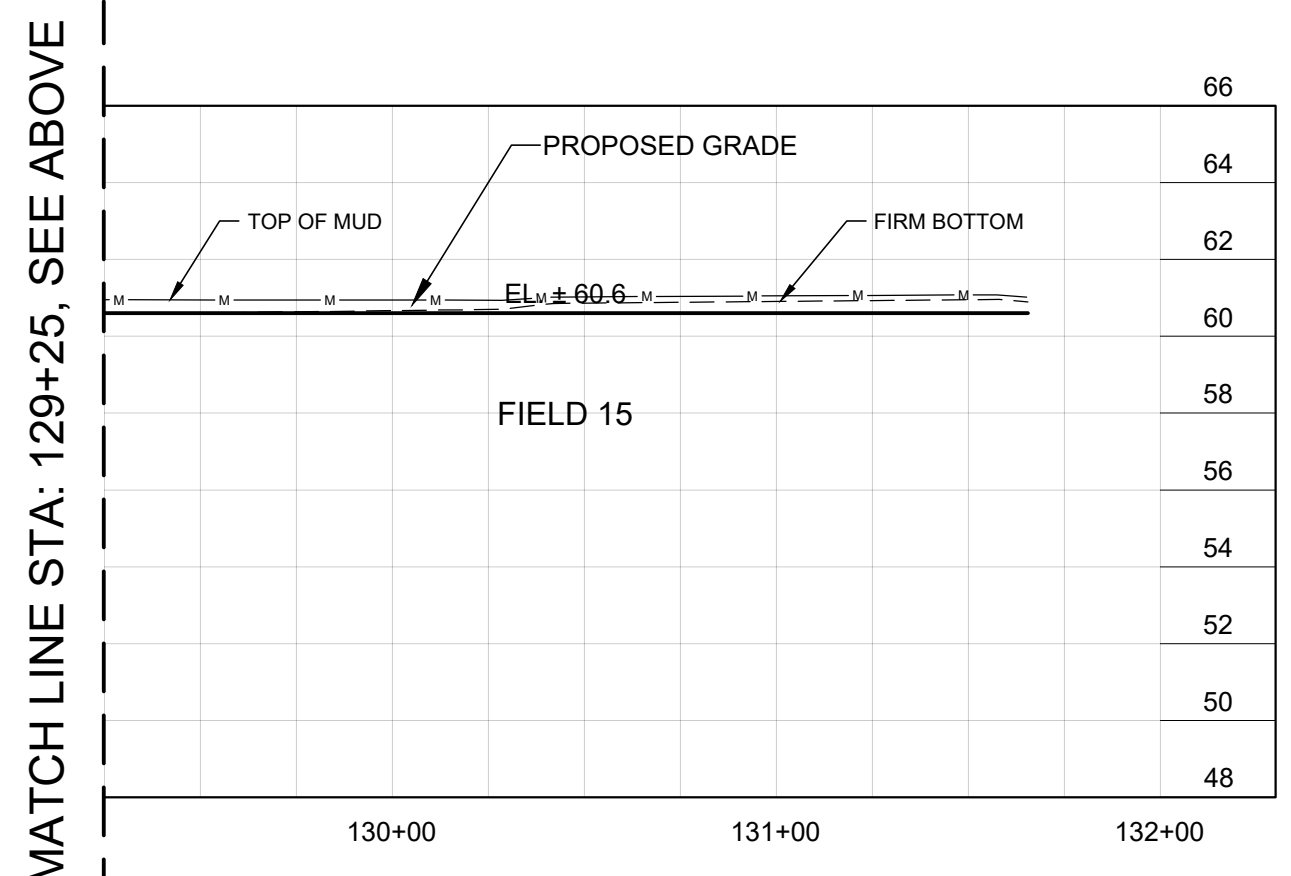
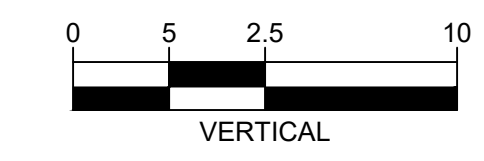
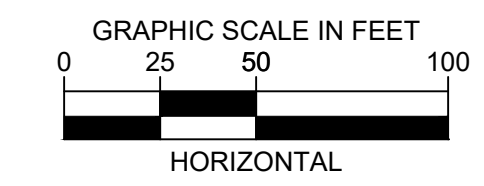
MATCH LINE STA: 129+25, SEE BELOW

**PROFILE NOTES:**

1. ALL ELEVATIONS SHOWN REFER TO NAVD88.
2. 2015/2016 SURVEY INFORMATION IS LIMITED IN AREA AND DOES NOT INCLUDE LATERAL ELEVATIONS.

**LEGEND:**

- PROPOSED GRADE
- - - TOP OF MUD (2018 SURVEY)
- - - FIRM BOTTOM (2018 SURVEY)



MATCH LINE STA: 129+25, SEE ABOVE

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UPPER OCKLAWAHA RIVER BASIN  
LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

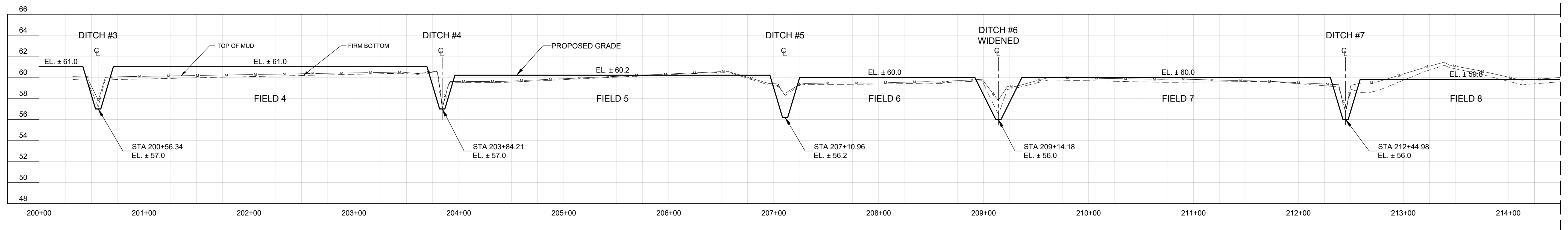
CELL C1 - NORTH CROSS SECTION  
(FACING NORTH)

CERTIFICATION:  
ROBERT J. NALEWAY  
P.E. NUMBER: 53197  
DATE: AUGUST 4, 2020

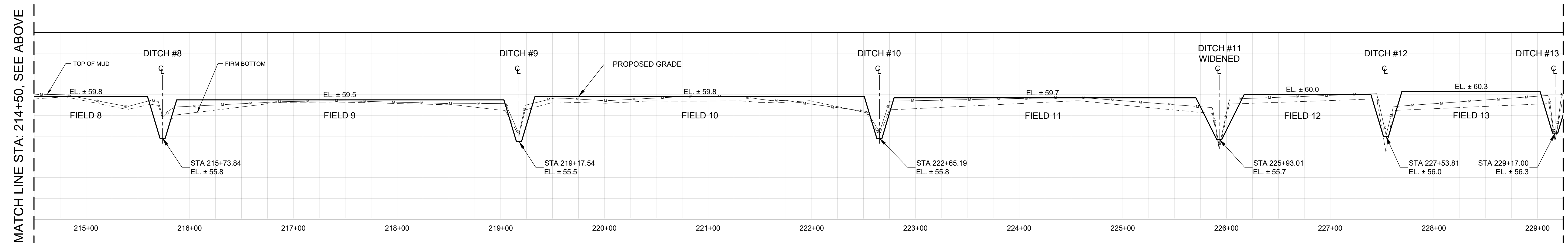
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C-04 CELL C-1 XSECTIONS.dwg  
PROJECT NO.:  
SHEET:  
C5

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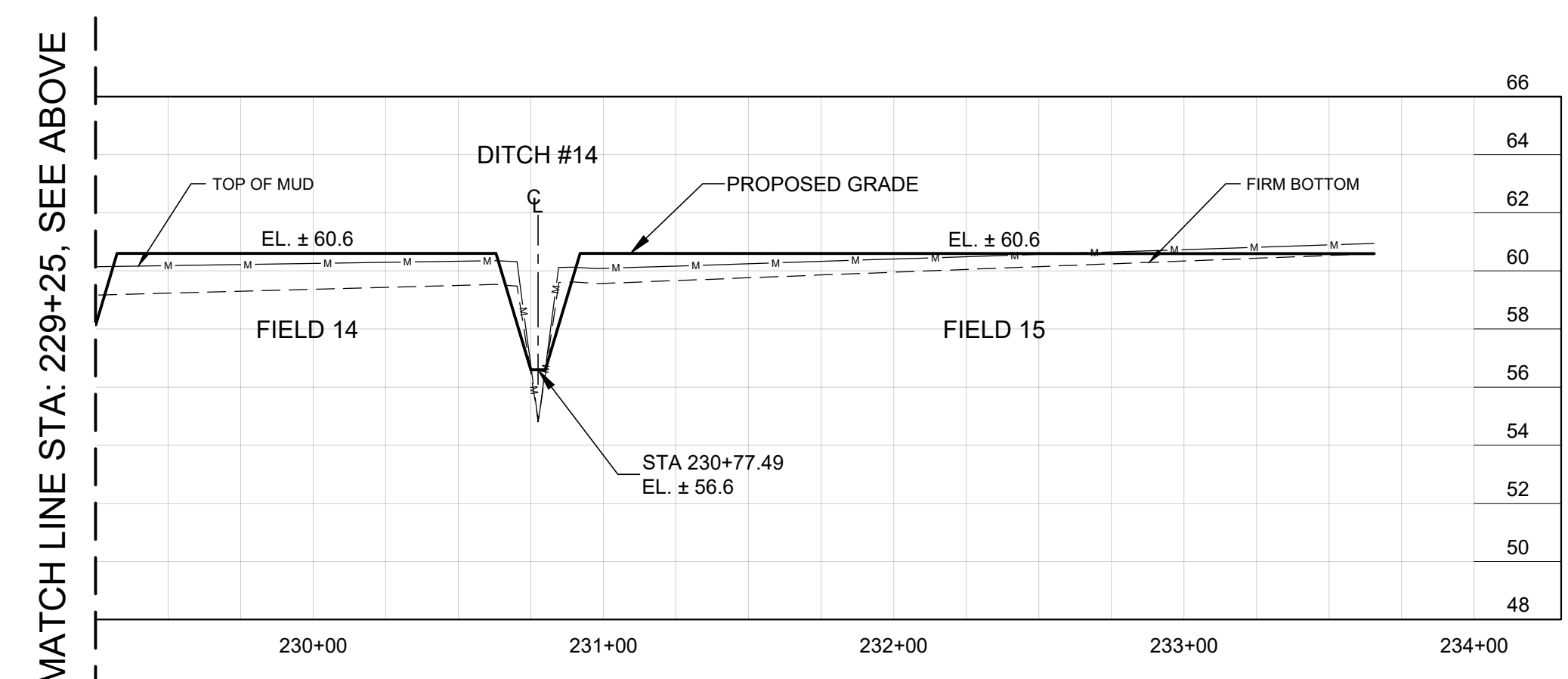


MATCH LINE STA: 214+50, SEE BELOW



MATCH LINE STA: 214+50, SEE ABOVE

MATCH LINE STA: 229+25, SEE BELOW



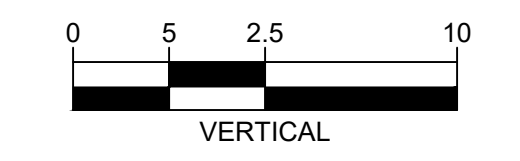
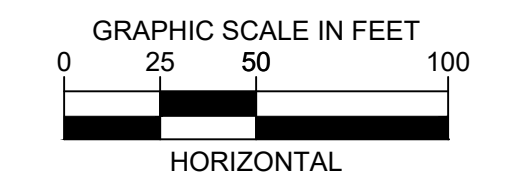
MATCH LINE STA: 229+25, SEE ABOVE

**PROFILE NOTES:**

1. ALL ELEVATIONS SHOWN REFER TO NAVD88.
2. 2015/2016 SURVEY INFORMATION IS LIMITED IN AREA AND DOES NOT INCLUDE LATERAL ELEVATIONS.

**LEGEND:**

- PROPOSED GRADE
- - - TOP OF MUD (2018 SURVEY)
- - - FIRM BOTTOM (2018 SURVEY)



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|                |          |          |        |          |
|----------------|----------|----------|--------|----------|
| ISSUED FOR BID | N.J.G.   | 08/04/20 | R.J.N. | 08/04/20 |
| NO.            | REVISION | BY       | DATE   | APPROVED |

UPPER OCKLAWAHA RIVER BASIN  
 LAKE APOPKA MARSH FLOW-WAY C1 AND C2 CELL  
 MAINTENANCE IMPROVEMENTS  
 LAKE COUNTY, FLORIDA

ST. JOHNS RIVER  
 WATER MANAGEMENT DISTRICT  
 P.O. BOX 1429 PALATKA, FLORIDA

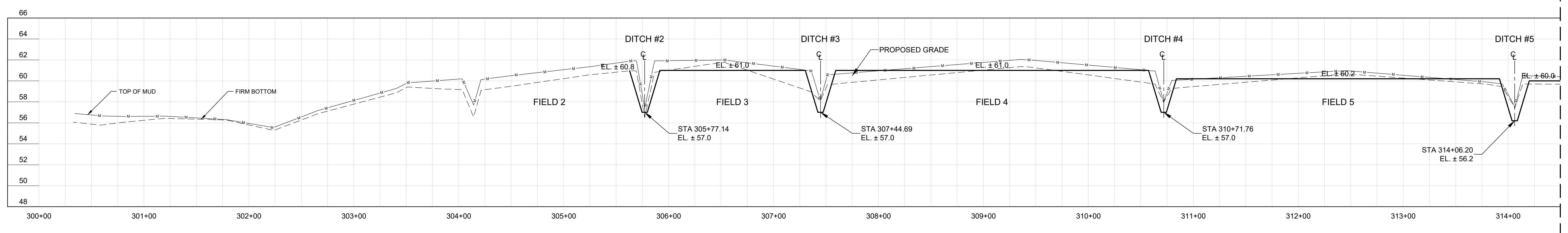
DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
 SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

CELL C1 - CENTER CROSS SECTION  
 (FACING NORTH)

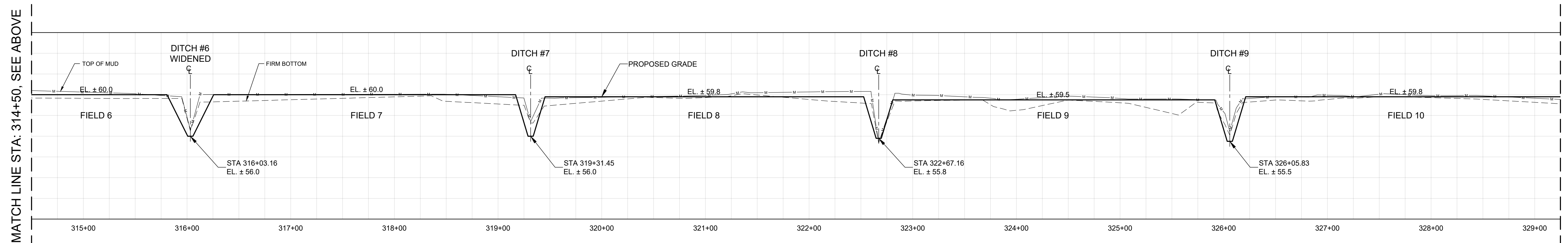
CERTIFICATION:  
 ROBERT J. NALEWY  
 P.E. NUMBER: 53197  
 DATE: AUGUST 4, 2020

FILE NAME:  
 C-04 CELL C-1 XSECTIONS.dwg  
 PROJECT NO.:  
 SHEET:  
 C6



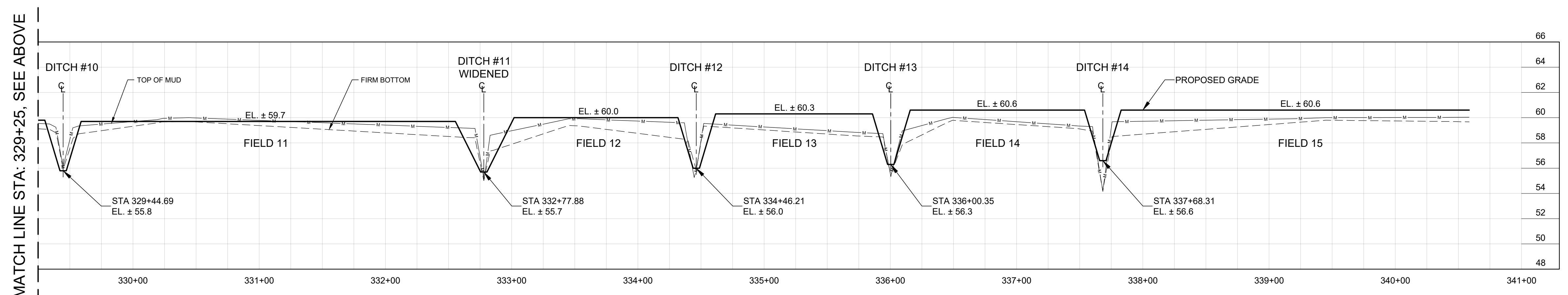


MATCH LINE STA: 314+50, SEE BELOW

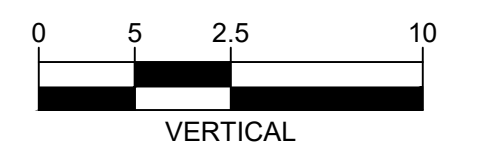
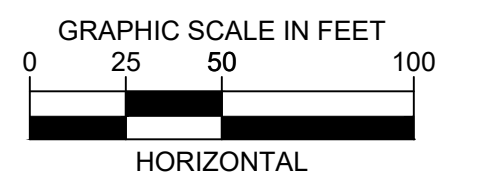


MATCH LINE STA: 314+50, SEE ABOVE

MATCH LINE STA: 329+25, SEE BELOW



MATCH LINE STA: 329+25, SEE ABOVE



**PROFILE NOTES:**  
 1. ALL ELEVATIONS SHOWN REFER TO NAVD88.  
 2. 2015/2016 SURVEY INFORMATION IS LIMITED IN AREA AND DOES NOT INCLUDE LATERAL ELEVATIONS.

**LEGEND:**  
 — PROPOSED GRADE  
 - - - TOP OF MUD (2018 SURVEY)  
 - - - FIRM BOTTOM (2018 SURVEY)

CALL 2 WORKING DAYS BEFORE YOU DIG  
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| ISSUED FOR BID | N.J.G.   | 08/04/20 | R.J.N. | 08/04/20 |
| NO.            | REVISION | BY       | DATE   | APPROVED |

UPPER OCKLAWAHA RIVER BASIN  
 LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
 MAINTENANCE IMPROVEMENTS  
 LAKE COUNTY, FLORIDA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
 P.O. BOX 1429 PALATKA, FLORIDA

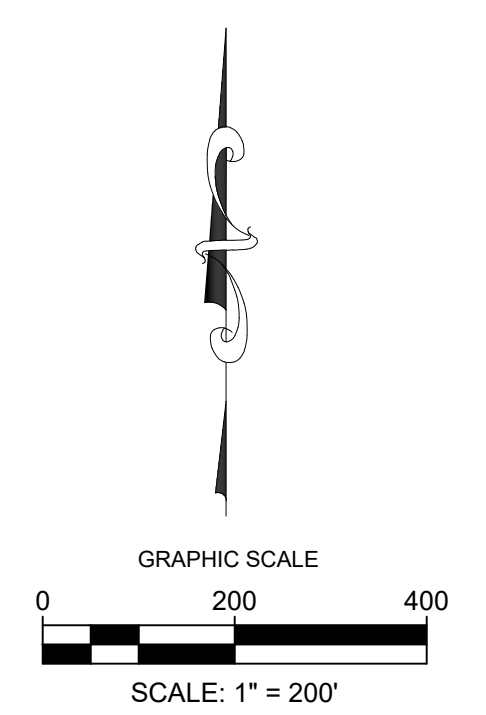
DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
 SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

CELL C1 - SOUTH CROSS SECTION  
 (FACING NORTH)

CERTIFICATION:  
 ROBERT J. NALEWAY  
 P.E. NUMBER: 53197  
 DATE: AUGUST 4, 2020

FILE NAME: C-04 CELL C-1 XSECTIONS.dwg  
 PROJECT NO.:  
 SHEET: C7

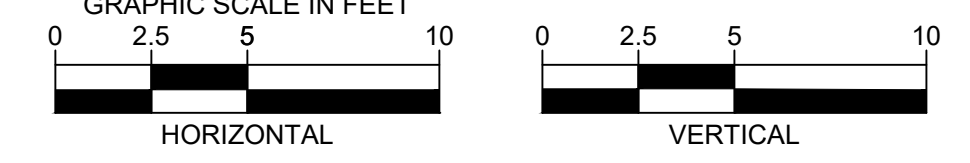




- LEGEND:**
- EXISTING PUMP STATION
  - EXISTING ELEVATIONS (BOTTOM OF MUD)
  - PROPOSED ELEVATIONS
  - DITCH RESHAPING
  - DITCH WIDENING
  - EXISTING STRUCTURE
  - FLOW DIRECTION

NOTE: THE CONDITION OF THE EXISTING STRUCTURES AT THE SOUTH END OF THIS CELL IS UNKNOWN. IF SOME OF THESE ARE DEEMED UNREPAIRABLE BY THE CONTRACTOR AND DISTRICT THEY SHALL BE REPLACED AS SHOWN IN THE DETAILS ON SHEET C12. THE REPLACEMENT OF THE STRUCTURE AND PIPE SHALL BE APPROVED BY THE DISTRICT PRIOR TO ORDERING MATERIAL OR BEGINNING ANY WORK ON THE STRUCTURE.

**C8 1 INTAKE DITCH SECTION**



**C8 2 DISCHARGE CANAL SECTION**



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|     |          |    |      |          |      |

UPPER OCKLAWAHA RIVER BASIN  
 LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
 MAINTENANCE IMPROVEMENTS  
 LAKE COUNTY, FLORIDA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
 P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
 SCALE: 1" = 200' DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

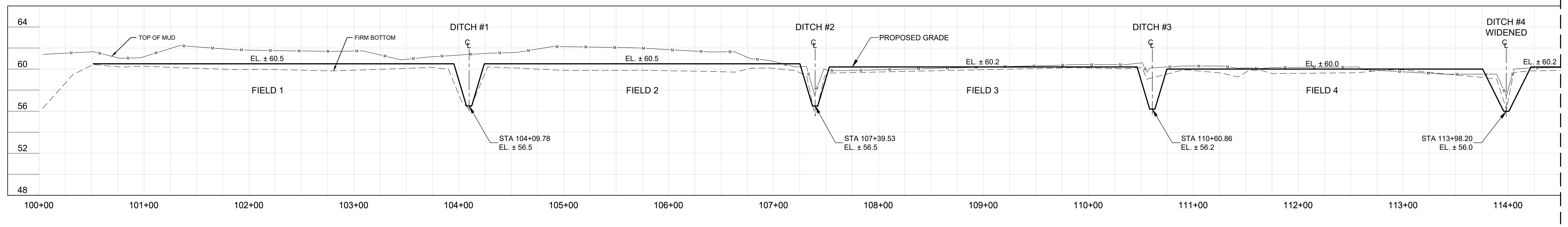
CELL C2 - GRADING & DRAINAGE PLAN

CERTIFICATION:  
 ROBERT J. NALEWAY  
 P.E. NUMBER: 53197  
 DATE: AUGUST 4, 2020

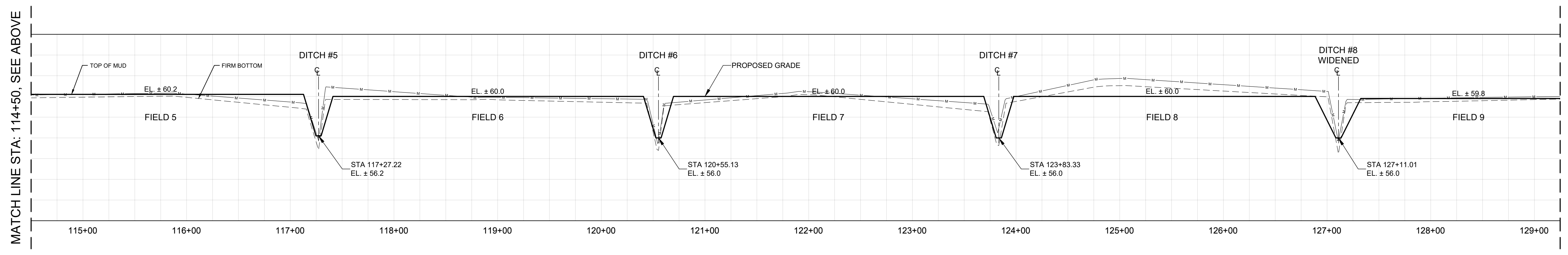
FILE NAME:  
 C-03 GRADING & DRAINAGE.dwg  
 PROJECT NO.:  
 SHEET:  
**C8**

U:\PROJECTS\LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL MAINTENANCE IMPROVEMENTS\DWG\C8.dwg



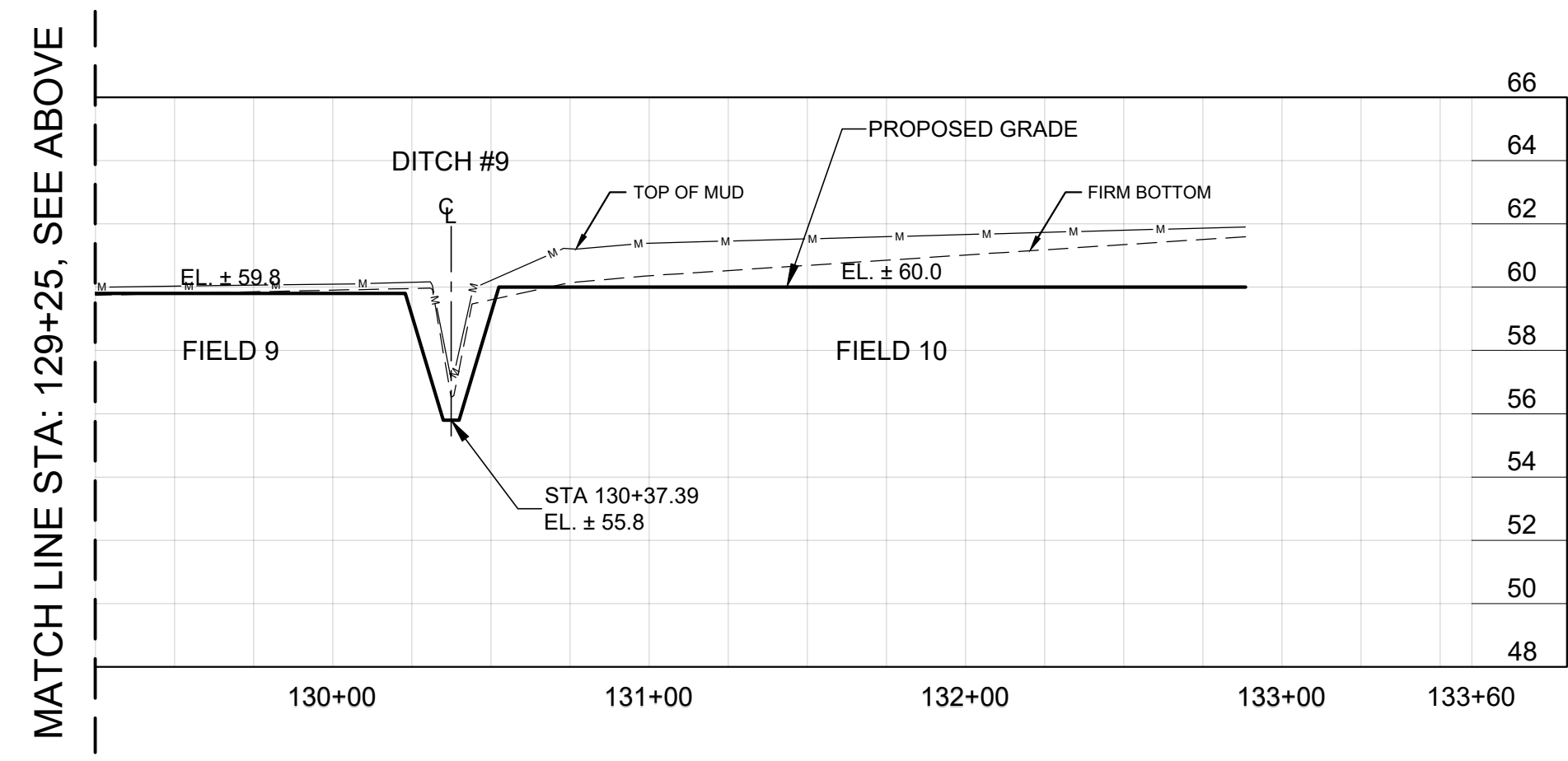


MATCH LINE STA: 114+50, SEE BELOW



MATCH LINE STA: 114+50, SEE ABOVE

MATCH LINE STA: 129+25, SEE BELOW



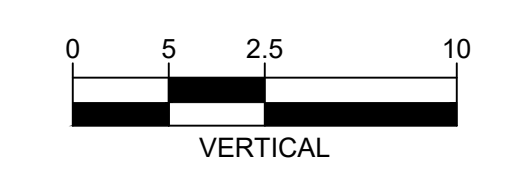
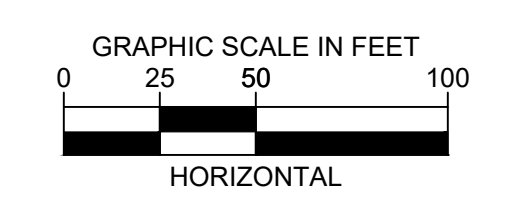
MATCH LINE STA: 129+25, SEE ABOVE

**PROFILE NOTES:**

1. ALL ELEVATIONS SHOWN REFER TO NAVD88.
2. 2015/2016 SURVEY INFORMATION IS LIMITED IN AREA AND DOES NOT INCLUDE LATERAL ELEVATIONS.

**LEGEND:**

- PROPOSED GRADE
- - - TOP OF MUD (2018 SURVEY)
- - - FIRM BOTTOM (2018 SURVEY)



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| ISSUED FOR BID | N.J.G.   | 08/04/20 | R.J.N. | 08/04/20 |
| NO.            | REVISION | BY       | DATE   | APPROVED |

UPPER OCKLAWAHA RIVER BASIN  
LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER  
WATER MANAGEMENT DISTRICT  
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.

SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

CELL C2 - NORTH CROSS SECTION  
(FACING NORTH)

CERTIFICATION:

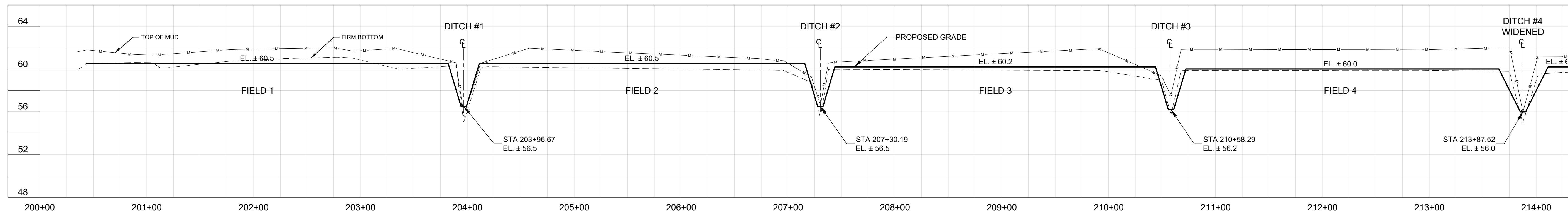
ROBERT J. NALEWAY  
P.E. NUMBER: 53197  
DATE: AUGUST 4, 2020

FILE NAME:  
C-05 CELL C-2 XSECTIONS.dwg

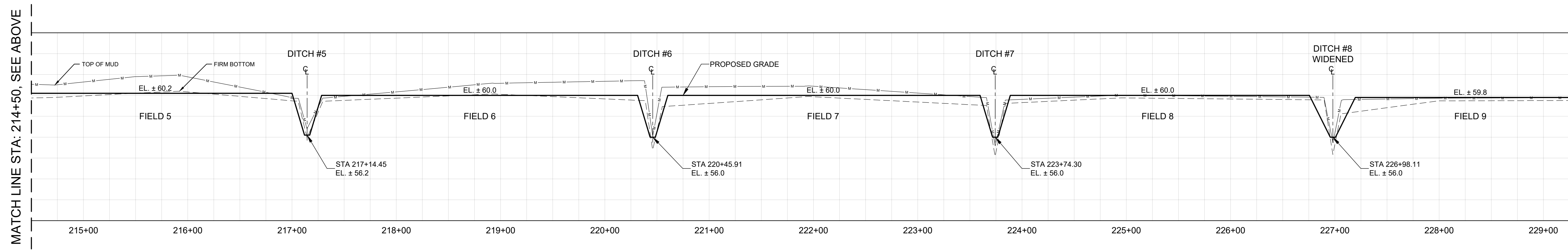
PROJECT NO.:

SHEET:  
C9



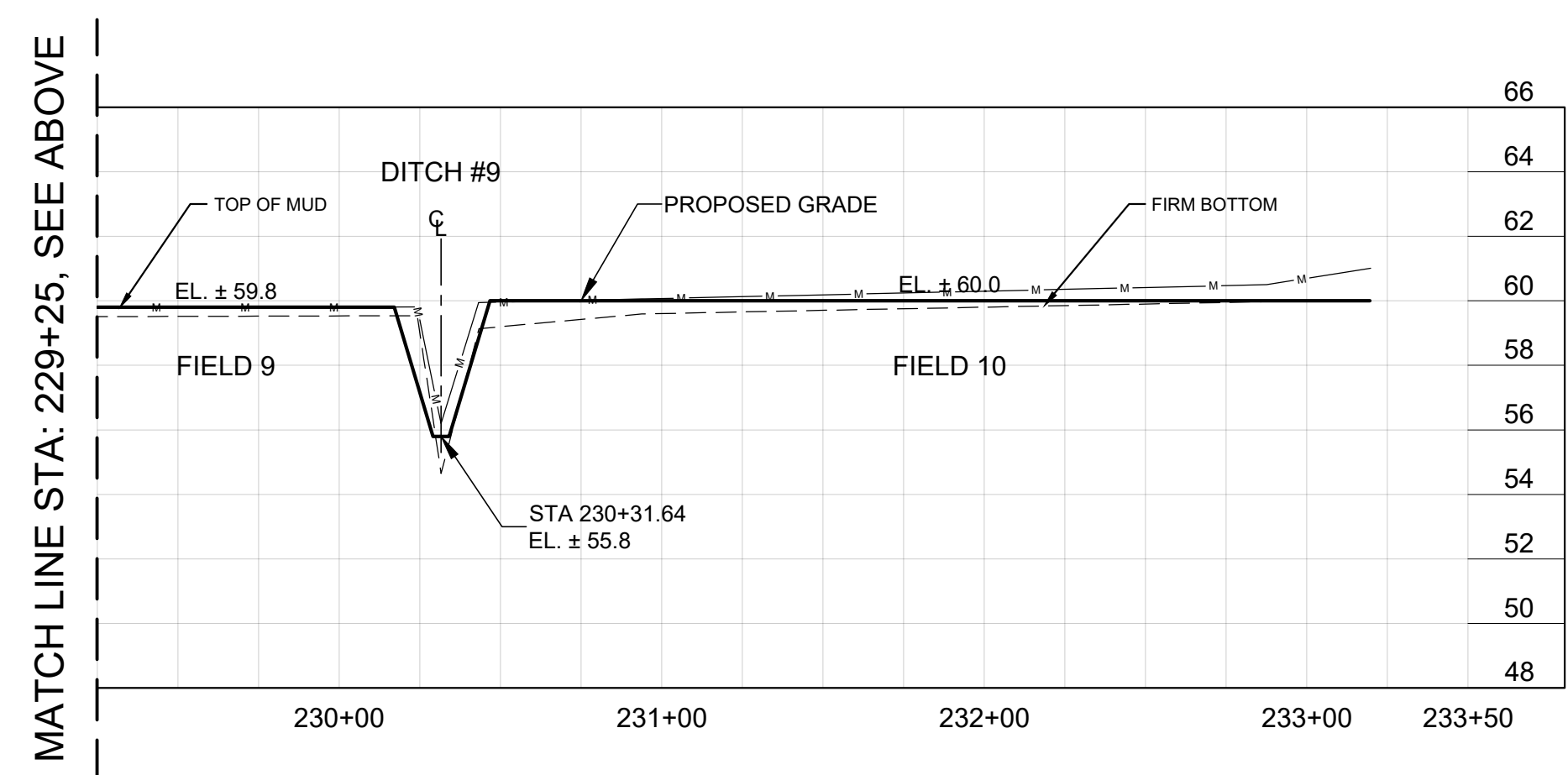


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MATCH LINE STA: 214+50, SEE ABOVE

MATCH LINE STA: 229+25, SEE BELOW



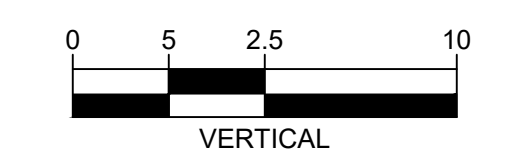
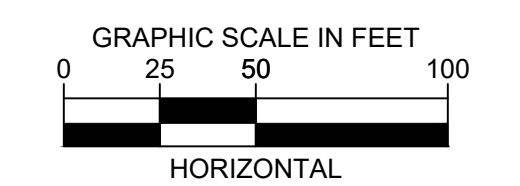
MATCH LINE STA: 229+25, SEE ABOVE

**PROFILE NOTES:**

1. ALL ELEVATIONS SHOWN REFER TO NAVD88.
2. 2015/2016 SURVEY INFORMATION IS LIMITED IN AREA AND DOES NOT INCLUDE LATERAL ELEVATIONS.

**LEGEND:**

- PROPOSED GRADE
- - - TOP OF MUD (2018 SURVEY)
- · · FIRM BOTTOM (2018 SURVEY)



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| 1   | ISSUED FOR BID | N.J.G. | 08/04/20 | R.J.N.   | 08/04/20 |

UPPER OCKLAWAHA RIVER BASIN  
LAKE AOPKA MARSH FLOW-WAY C1 AND C2 CELL  
MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER  
WATER MANAGEMENT DISTRICT  
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.

SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

CELL C2 - CENTER CROSS SECTION  
(FACING NORTH)

CERTIFICATION:

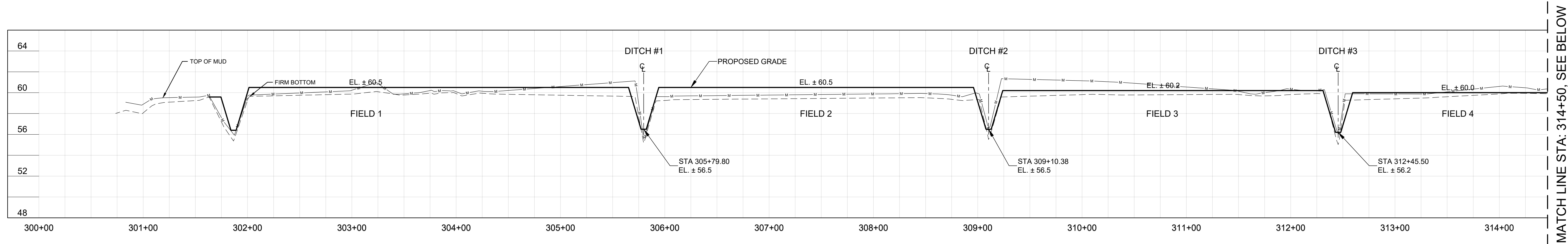
ROBERT J. NALEWAY  
P.E. NUMBER: 53197  
DATE: AUGUST 4, 2020

FILE NAME:  
C-05 CELL C-2 XSECTIONS.dwg

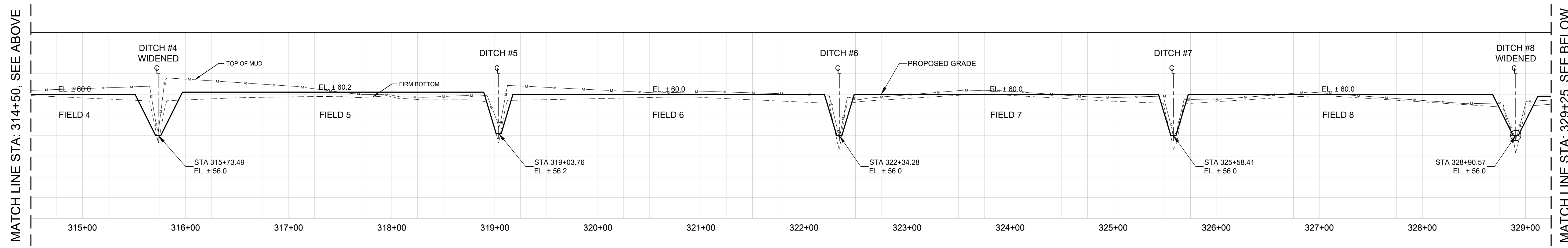
PROJECT NO.:

SHEET:  
C10



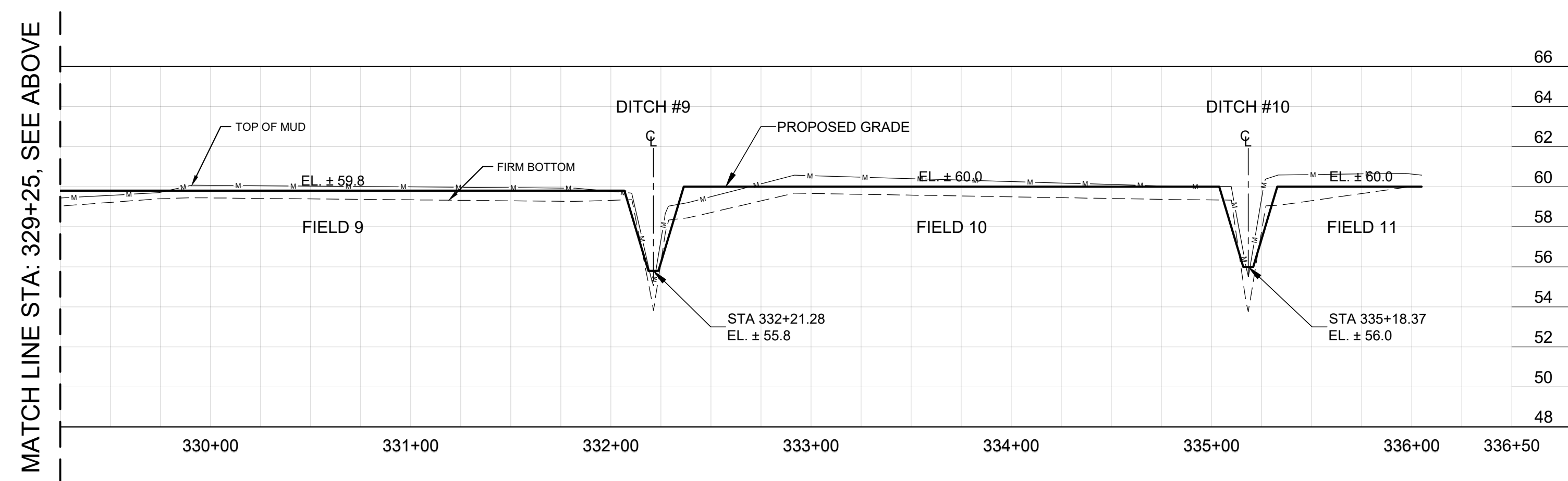


MATCH LINE STA: 314+50, SEE BELOW



MATCH LINE STA: 314+50, SEE ABOVE

MATCH LINE STA: 329+25, SEE BELOW



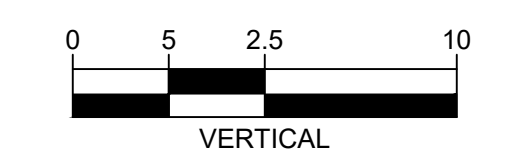
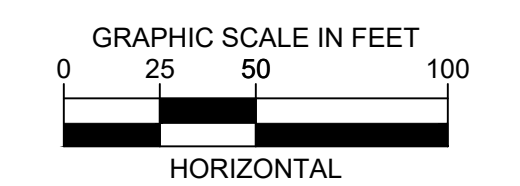
MATCH LINE STA: 329+25, SEE ABOVE

**PROFILE NOTES:**

1. ALL ELEVATIONS SHOWN REFER TO NAVD88.
2. 2015/2016 SURVEY INFORMATION IS LIMITED IN AREA AND DOES NOT INCLUDE LATERAL ELEVATIONS.

**LEGEND:**

- PROPOSED GRADE
- - - TOP OF MUD (2018 SURVEY)
- - - FIRM BOTTOM (2018 SURVEY)



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MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER  
WATER MANAGEMENT DISTRICT  
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.

SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

CELL C2 - SOUTH CROSS SECTION  
(FACING NORTH)

CERTIFICATION:

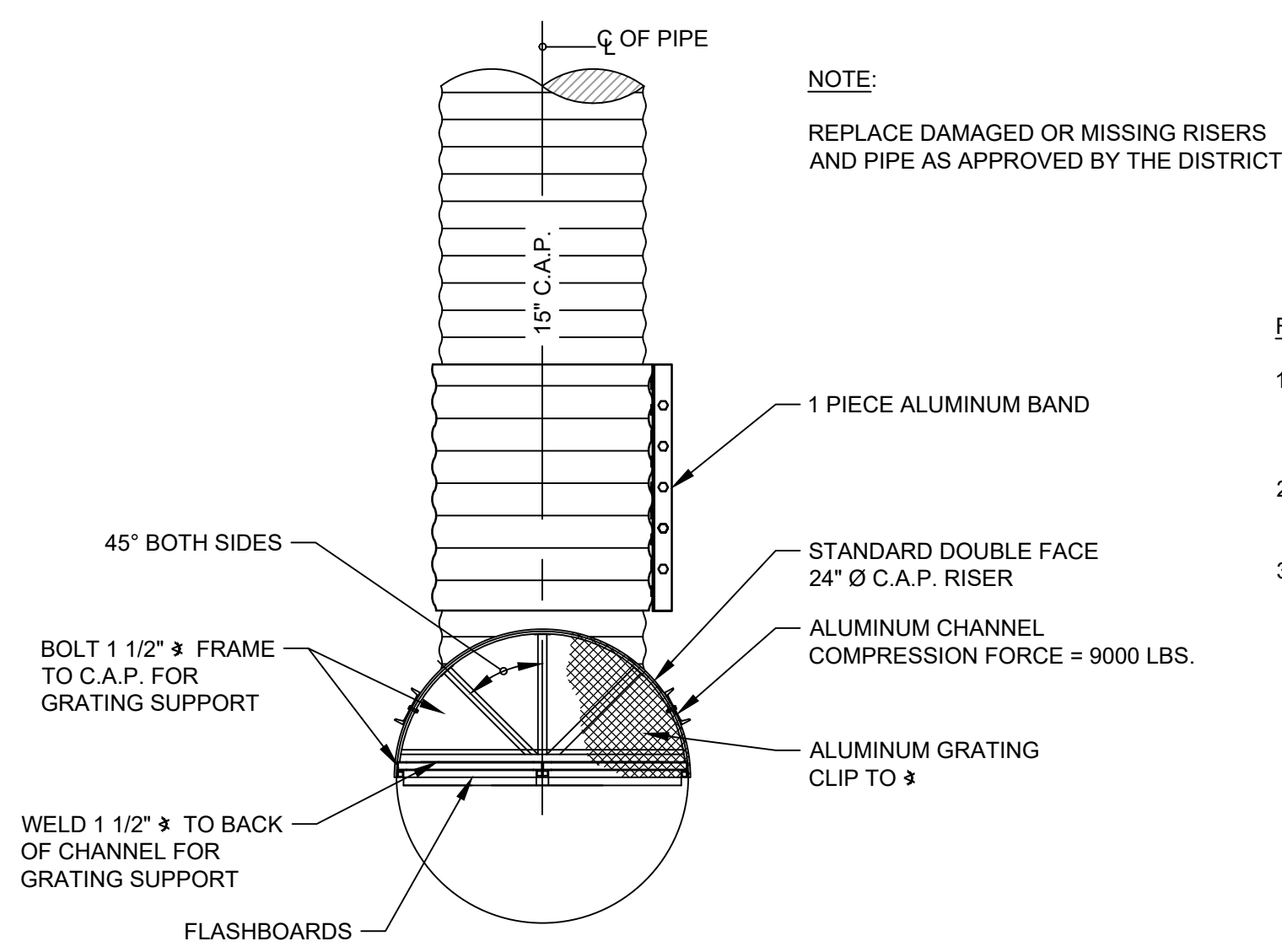
ROBERT J. NALEWAY  
P.E. NUMBER: 53197  
DATE: AUGUST 4, 2020

FILE NAME:  
C-05 CELL C-2 XSECTIONS.dwg

PROJECT NO.:

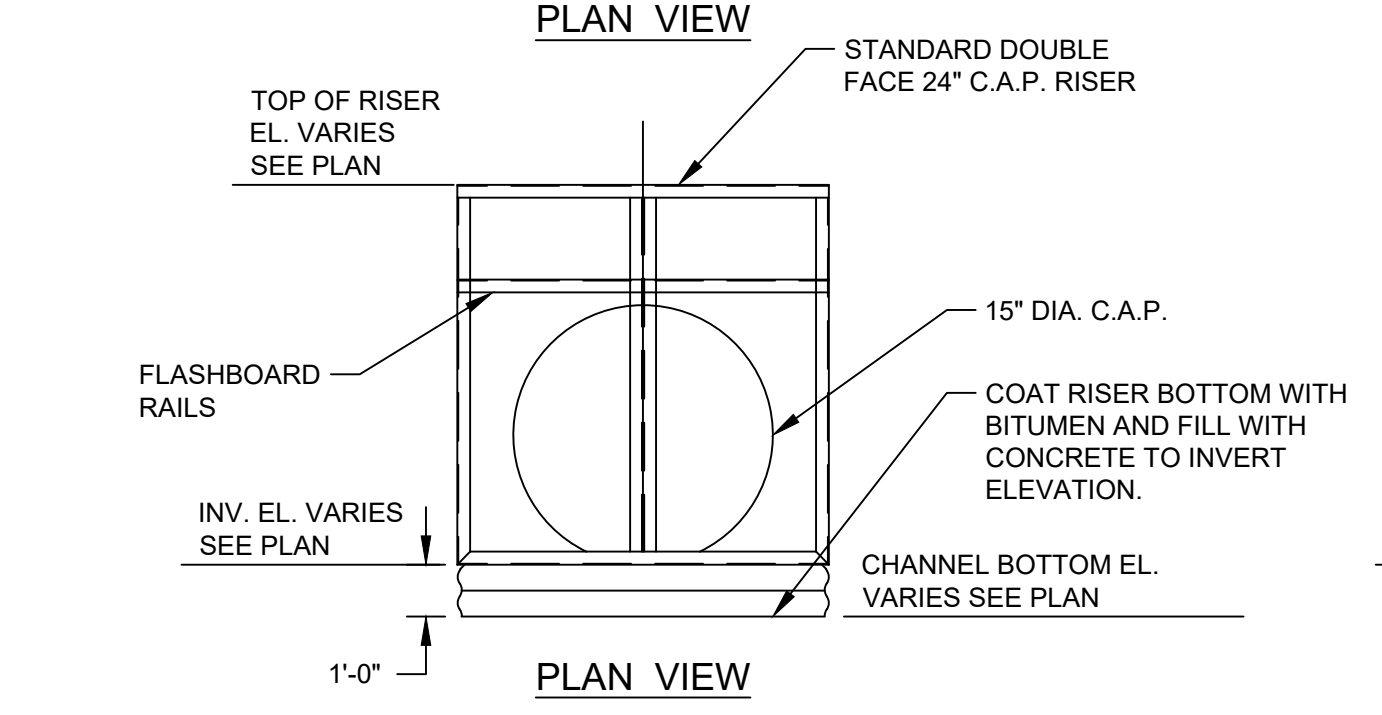
SHEET:  
**C11**



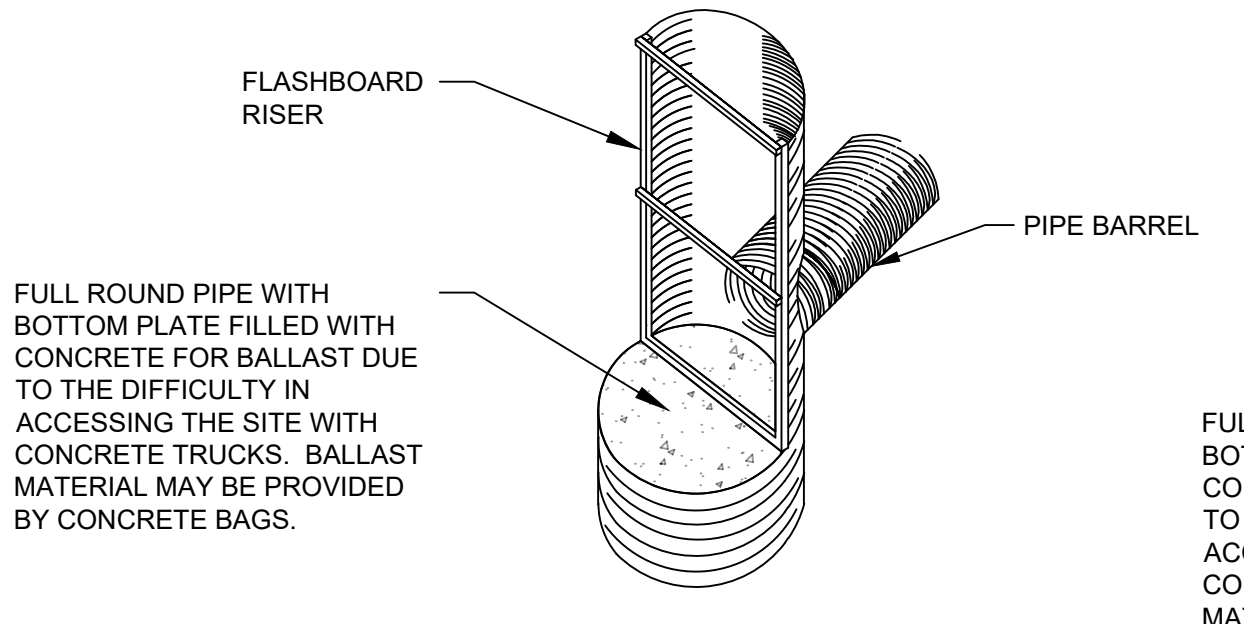
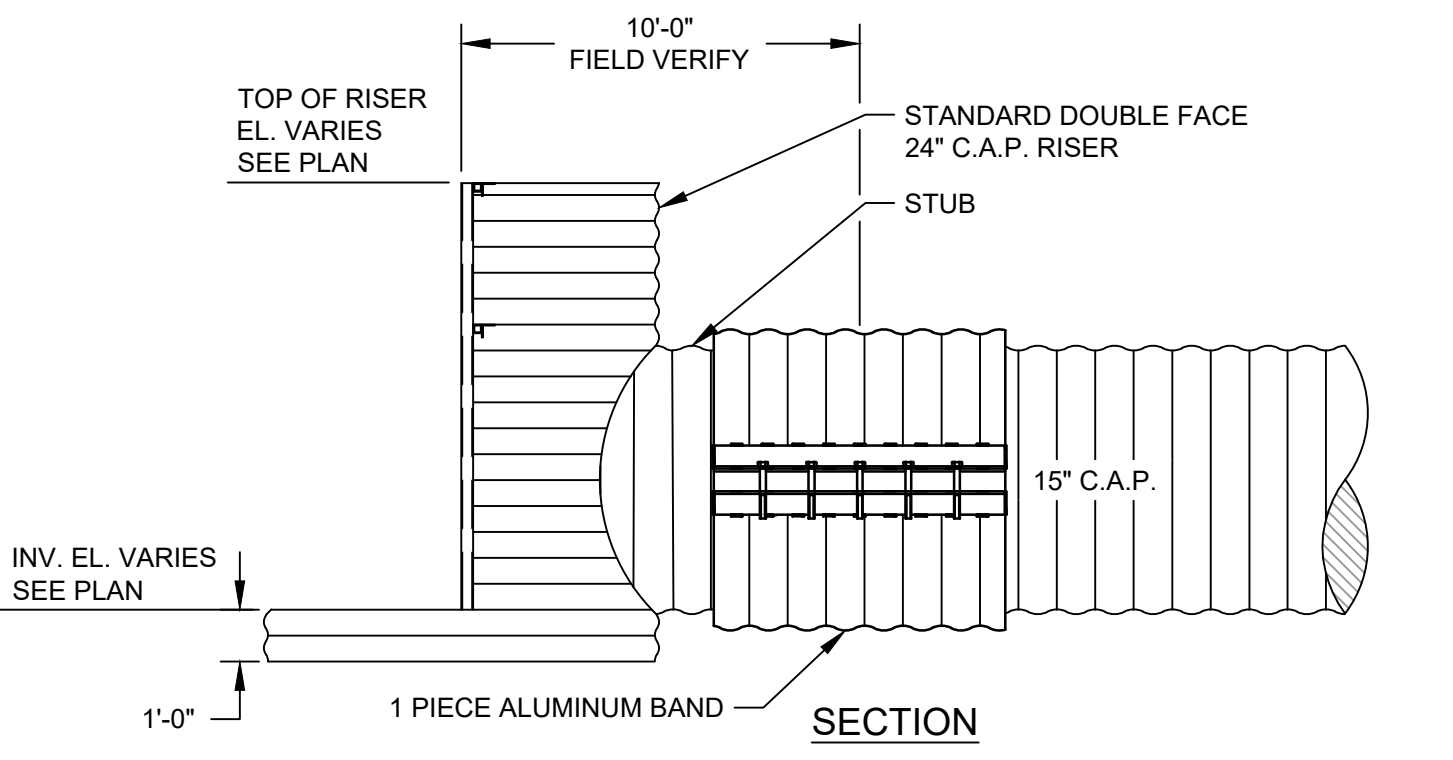


**NOTE:**  
REPLACE DAMAGED OR MISSING RISERS AND PIPE AS APPROVED BY THE DISTRICT.

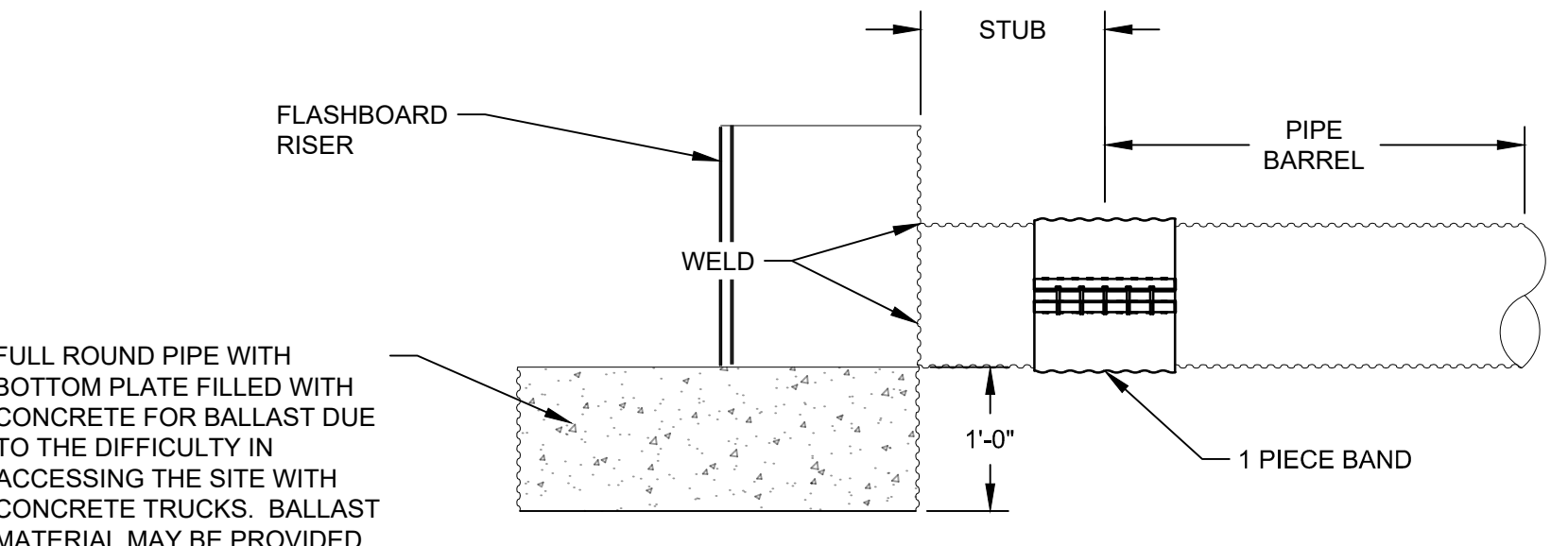
- RISER DETAIL NOTES:**
1. DETAIL SHOP DRAWING OF COMPLETE RISER TO BE SUBMITTED TO THE DISTRICT'S REPRESENTATIVE FOR APPROVAL PRIOR TO FABRICATION.
  2. FLASHBOARD RISER SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
  3. ALL FLASHBOARD RISERS SHALL BE DOUBLEFACE STANDARD. FG RISER SHALL NOT BE ALLOWED.



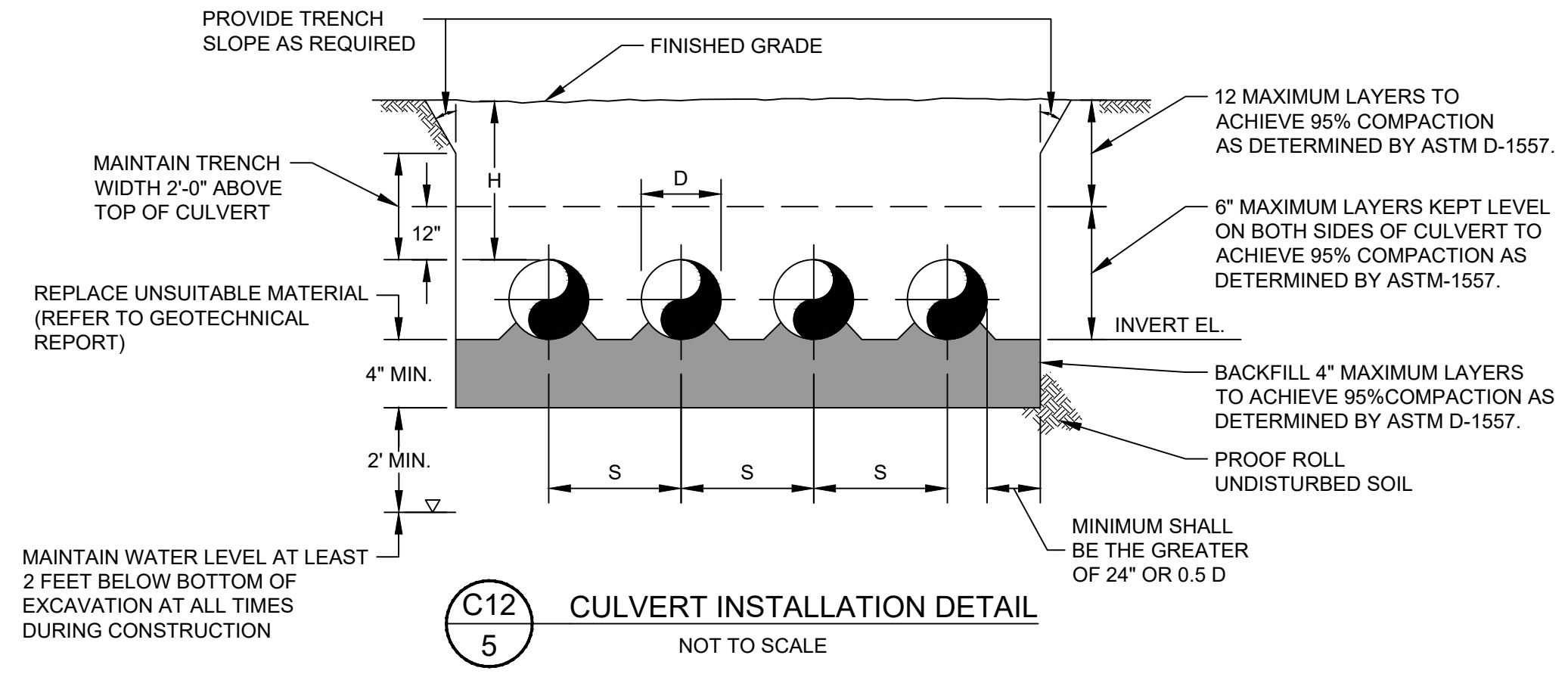
**C12**  
**1** ALUMINUM RISER DETAIL  
NOT TO SCALE



**C12**  
**2** RISER DETAILS  
NOT TO SCALE



**C12**  
**3** RISER SECTION  
NOT TO SCALE

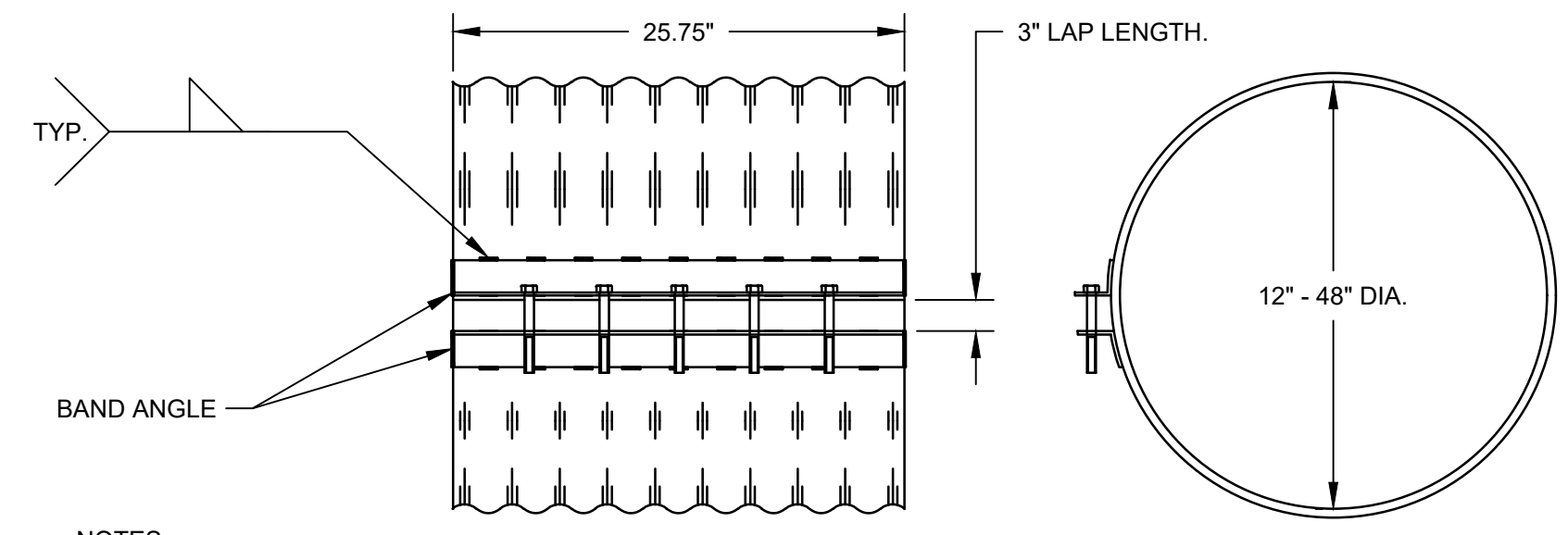


**C12**  
**5** CULVERT INSTALLATION DETAIL  
NOT TO SCALE

- CONSTRUCTION SPECIFICATIONS FOR CULVERT INSTALLATION:**
1. ALL MATERIALS AND METHODS OF CONSTRUCTION WHERE REFERENCED SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), LATEST EDITION.
  2. ALL CULVERTS SHALL BE CORRUGATED ALUMINUM PIPE CONFORMING TO THE REQUIREMENTS OF FDOT SECTION 945. CULVERTS SHALL HAVE HELICAL CORRUGATIONS AND CONFORM TO THE FOLLOWING PARAMETERS:

| DIA. - D(IN.) | GAUGE | CORRUGATION   | SPACING S(FT) | MIN. COVER H(FT) |
|---------------|-------|---------------|---------------|------------------|
| 12            | 16    | 2-2/3" X 1/2" | 2'-6"         | 3'-0"            |
| 18            | 16    | 2-2/3" X 1/2" | 3'-0"         | 3'-0"            |
| 24            | 16    | 2-2/3" X 1/2" | 3'-6"         | 3'-0"            |
| 30            | 14    | 2-2/3" X 1/2" | 4'-3"         | 3'-0"            |
| 36            | 14    | 3" X 1"       | 5'-0"         | 3'-0"            |
| 42            | 12    | 3" X 1"       | 6'-0"         | 3'-0"            |
| 48            | 12    | 3" X 1"       | 6'-9"         | 4'-0"            |
| 54            | 12    | 3" X 1"       | 7'-9"         | 4'-0"            |
| 60            | 10    | 3" X 1"       | 8'-6"         | 4'-0"            |
| 66            | 10    | 3" X 1"       | 9'-3"         | 4'-0"            |
| 72            | 8     | 3" X 1"       | 10'-0"        | 4'-0"            |
| 78            | 8     | 3" X 1"       | 10'-9"        | 5'-0"            |
| 84            | 8     | 3" X 1"       | 11'-9"        | 5'-0"            |

3. ALL PIPE JOINTS SHALL BE ALUMINUM BAND TYPE CONNECTIONS WITH NEOPRENE GASKET INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. THE TWO OUTERMOST PIPE ENDS SHALL BE REROLLED (REFORMED) FOR ANNULAR CORRUGATION.
4. PIPE SURFACES IN CONTACT WITH CONCRETE, OR AS INDICATED ON THE DRAWINGS, SHALL BE BITUMINOUS COATED. THE BITUMINOUS COATING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M190.
5. SITE PREPARATION SHALL CONSIST OF STRIPPING ACTIVITIES PRIOR TO EXCAVATION AND BACKFILLING. STRIPPING INCLUDES COMPLETE REMOVAL OF LOW-GROWING VEGETATION, ORGANIC TOPSOIL, PEAT/MUCK (PT), AND ANY CONCENTRATED ROOT ZONES AND ROOT MATS. ALL UNSUITABLE MATERIALS SHALL BE REMOVED FROM WITHIN 5 FEET OF ANY AREA ON THE SITE THAT IS TO BE FILLED.
6. CONTROL OF GROUNDWATER AND SURFACE WATER SHALL BE REQUIRED TO ACHIEVE THE NECESSARY DEPTHS OF EXCAVATION AND SUBSEQUENT CONSTRUCTION AND BACKFILLING AND COMPACTION REQUIREMENTS. THE ACTUAL METHOD OF DEWATERING SHALL BE DETERMINED BY THE CONTRACTOR, HOWEVER, REGARDLESS OF THE METHOD USED, DRAWING DOWN THE WATER TABLE TO A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXCAVATION IS REQUIRED TO PRECLUDE "PUMPING" AND/OR COMPACTION RELATED PROBLEMS WITH THE FOUNDATION SOILS.
7. CONTRACTOR SHALL REFER TO THE SITE GEOTECH REPORT TO DETERMINE CONDITIONS AND SUITABILITY OF USING IN-SITU MATERIALS FOR BACKFILL.
8. THE SOILS BELOW THE BOTTOM OF THE EXCAVATION SHALL NOT BE DISTURBED BY THE EXCAVATION PROCESS. IF SOILS BECOME DISTURBED AND DIFFICULT TO COMPACT, THEY SHALL BE OVER EXCAVATED TO A DEPTH NECESSARY TO REMOVE ALL DISTURBED SOILS. ANY OVER EXCAVATED AREAS SHALL BE REPLACED WITH COMPACTED BACKFILL. DEPTH OF OVER EXCAVATION AND REPLACEMENT SHALL EXTEND AS NECESSARY TO REMOVE ALL DISTURBED AND/OR UNSUITABLE MATERIALS.
9. AREAS TO RECEIVE COMPACTED BACKFILL SHALL BE PROOF ROLLED TO IMPROVE THE OVERALL UNIFORMITY AND BEARING CONDITIONS OF THE EXPOSED SOILS. INITIAL COMPACTION OPERATIONS SHALL CONSIST OF AT LEAST 4 OVERLAPPING PASSES IN EACH DIRECTION WITH A SELF-PROPELLED ROLLER. PROOF ROLLING SHALL CONTINUE UNTIL ALL SOFT, WET, OR YIELDING AREAS HAVE BEEN IDENTIFIED, OVER-EXCAVATED, AND BACKFILLED. PROOF-ROLLING SHALL OCCUR AFTER CUTTING AND BEFORE FILLING.
10. COMPACTED BACKFILL SHALL BE FINE SAND WITH CLAY OR CLAYEY FINE SAND HAVING A FINES CONTENT BETWEEN 8 AND 18 PERCENT PASSING THE U.S. STANDARD NO. 200 SIEVE. BACKFILL SHALL BE PLACED IN LIFTS AS SHOWN ON THE DRAWINGS. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D-1557). MOISTURE CONTENT OF THE SOILS SHALL BE MANIPULATED AS NECESSARY TO MEET THE PERCENT COMPACTION REQUIREMENT. THE BACKFILL SOIL SHALL BE OF A HOMOGENOUS NATURE SUCH THAT LAYERS OF RELATIVELY PERMEABLE SOIL ARE NOT PLACED BENEATH RELATIVELY LOW PERMEABLE SOILS. ORGANIC SOILS, PEAT, MUCK, OR CLAY (CL OR CH) SHALL NOT BE USED AS FILL.
11. HAUNCH MATERIAL SHALL BE TAMPED BY HAND, OR "KNIFED," TO ENSURE COMPLETE CONTACT WITH THE PIPE BOTTOM AND TO FILL VOIDS, BEFORE PROCEEDING WITH REMAINING EMBEDMENT ABOVE THE PIPE WHERE THERE IS INSUFFICIENT COVER MATERIAL PRESENT.
12. CARE SHALL BE TAKEN NOT TO DAMAGE THE CULVERTS OR DEFLECT IT BY COMPACTING DIRECTLY ABOVE THE PIPE WHERE THERE IS INSUFFICIENT COVER MATERIAL PRESENT.
13. FIELD DENSITY TESTS SHALL BE PERFORMED AS NECESSARY (BY THE DISTRICT OR REPRESENTATIVE) WITH EITHER THE DRIVE CYLINDER METHOD (ASTM D 2937) OR NUCLEAR METHOD (ASTM D 2922). PENETROMETER PROBES SHALL ALSO BE PERFORMED TO VERIFY THE UNIFORMITY OF COMPACTION. LABORATORY COMPACTION PROCTOR TESTS SHALL BE PERFORMED WHENEVER CHANGES IN SOIL COMPOSITION ARE OBSERVED, OR ON NEW MATERIAL FROM A DIFFERENT SOURCE. MOISTURE CONTENT AND PERCENT FINES (-200) TESTS SHALL BE PERFORMED ON EACH BAG SAMPLE RECOVERED FOR PROCTOR TESTING. LIQUID AND PLASTIC LIMITS SHALL BE PERFORMED AS NECESSARY WHEN PLASTIC FINES ARE PRESENT. THE NECESSITY AND FREQUENCY OF THE SOIL TESTS OUTLINED HEREIN MAY BE ADJUSTED BY THE DISTRICT. ANY FAILING TEST RESULTS SHALL BE ACCOMPANIED BY RETESTS SHOWING PASSING RESULTS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING ADVANCE NOTICE (MINIMUM 24 HOURS) TO THE DESIGNATED CONTACT OR THE DISTRICT'S REPRESENTATIVE WHEN TESTING SERVICES ARE REQUIRED.
15. AS AN ALTERNATIVE TO COMPACTED BACKFILL, FLOWABLE FILL MEETING THE REQUIREMENTS OF FDOT SECTION 121 MAY BE UTILIZED SUBJECT TO PRIOR APPROVAL BY THE DISTRICT. IF FLOWABLE FILL IS USED, THE EXTERIOR OF THE CULVERTS SHALL BE BITUMINOUS COATED CONFORMING TO THE REQUIREMENTS OF AASHTO M190. DUE CARE SHALL BE TAKEN DURING PLACEMENT TO AVOID FLOATATION OF THE CULVERTS.



- NOTES:**
1. BAND ANGLES MADE FROM 2" x 2" x 3/16" ANGLE, WELDED TO BAND AT THE PEAK OF EACH CORRUGATION.
  2. BAND CORRUGATION SHALL MATCH EXISTING PIPE CORRUGATION. CONTRACTOR SHALL VERIFY PRIOR TO PURCHASE.
  3. PROVIDE 24-INCH NEOPRENE GASKET BETWEEN CAP AND BAND.
  4. GAUGE OF BANDS ARE 2 GAUGES LIGHTER THEN GAUGE OF PIPES BEING JOINED.

**C12**  
**4** 2 2/3" x 1/2" CORRUGATION 1 PIECE BAND  
NOT TO SCALE

- CORRUGATED METAL PIPE AND JOINT PROTECTION.**
1. AFTER INSTALLATION OF COUPLING BANDS, THE ENTIRE EXTERIOR OF EACH JOINT ASSEMBLY, INCLUDING BANDS, BOLTS, AND NUTS SHALL BE WRAPPED WITH D-3 FILTER FABRIC CONFORMING TO THE REQUIREMENTS OF SECTION 985 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND INDEXES 199 AND 280 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS AND GIVEN ONE COAT (INSIDE AND OUTSIDE) OF COLD APPLIED BITUMINOUS COMPOUND SHALL BE APPLIED. MINIMUM THICKNESS OF COATING SHALL BE 0.05 INCHES.
  2. ALL CORRUGATED METAL PIPE IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS COMPOUND AT A MINIMUM THICKNESS OF 0.05 INCHES. PRIOR TO CONCRETE PLACEMENT. BITUMINOUS COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 190 TYPE "A" PIPE (FULLY BITUMINOUS COATED).

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| NO. | REVISION       | BY     | DATE     | APPROVED | DATE     |
|-----|----------------|--------|----------|----------|----------|
| 1   | ISSUED FOR BID | N.J.G. | 08/04/20 | R.J.N.   | 08/04/20 |

UPPER OCKLAWAHA RIVER BASIN  
LAKE APOPKA MARSH FLOW-WAY C1 AND C2 CELL  
MAINTENANCE IMPROVEMENTS  
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER  
WATER MANAGEMENT DISTRICT  
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 4, 2020 REVIEWER: M.V.H.  
SCALE: AS NOTED DESIGNER: R.J.N. SECTION CHIEF: M.V.H.

DETAILS

CERTIFICATION:  
ROBERT J. NALEWAY  
P.E. NUMBER: 53197  
DATE: AUGUST 4, 2020

FILE NAME:  
C-02 GENERAL NOTES.dwg  
PROJECT NO.:  
SHEET:  
**C12**