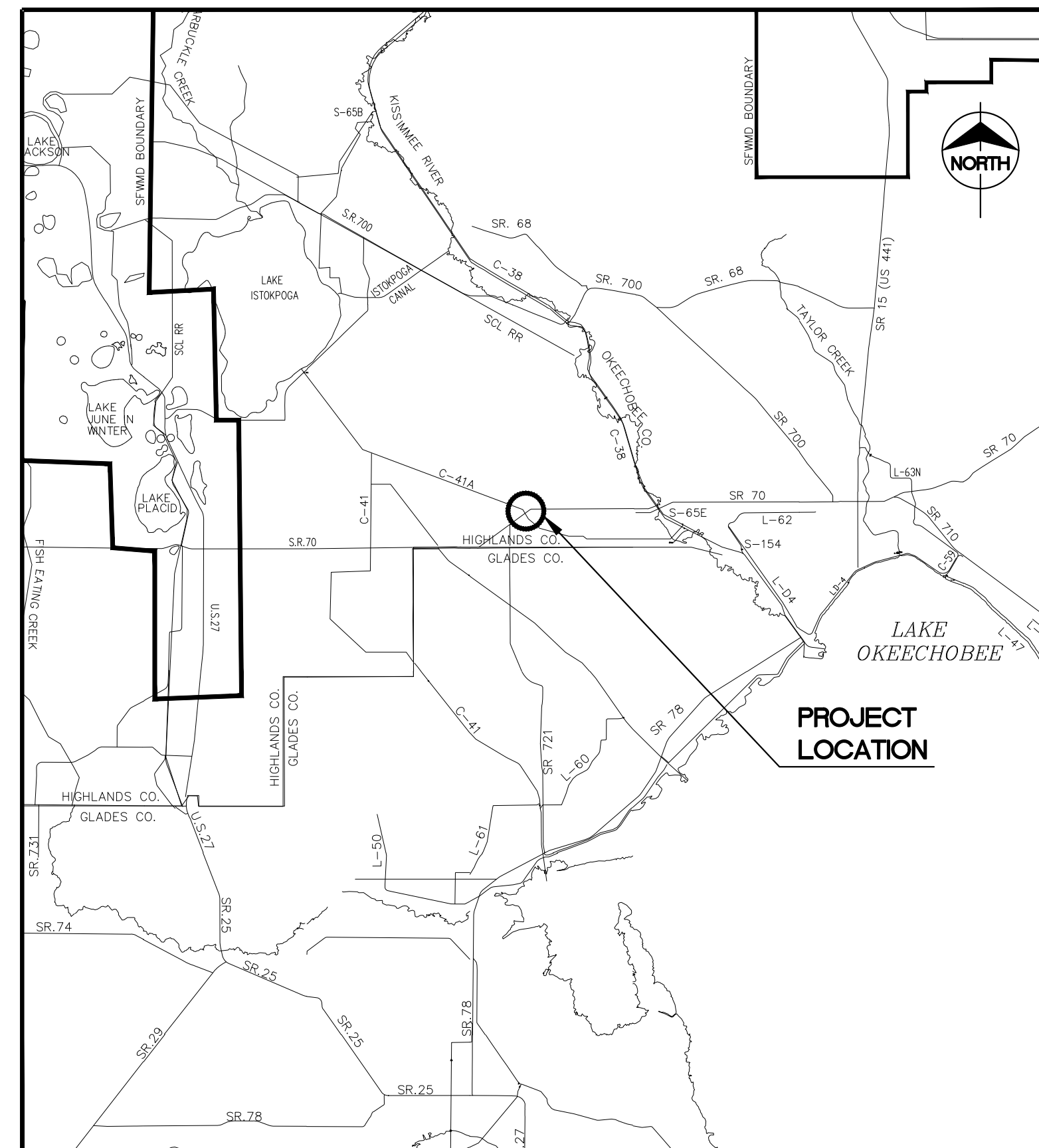
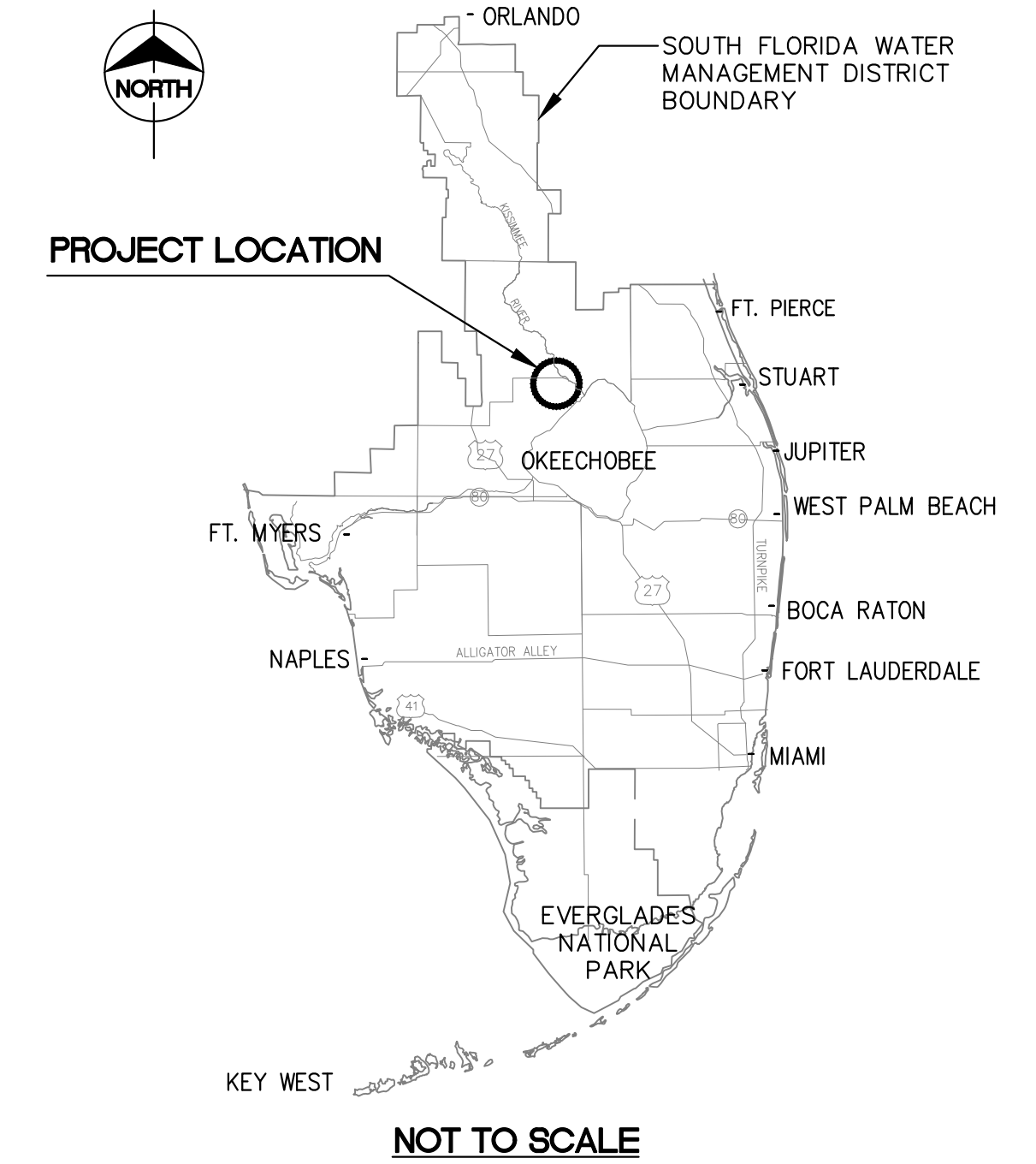




SOUTH FLORIDA WATER MANAGEMENT DISTRICT

RFB 6000001099 PC REPLACEMENT OKEECHOBEE FIELD STATION AREA (C41A-PC13N) HIGHLANDS COUNTY, FLORIDA



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

DRAWING NUMBER	SHEET NUMBER	SHEET TITLE
G001	01	COVER SHEET
G002	02	GENERAL NOTES
G003	03	ACCESS MAP
C001	04	PC-13 ON C-41A BORING PLAN
C002	05	PC-13 ON C-41A CANAL EXISTING SITE CONDITIONS
C003	06	PC-13 ON C-41A CANAL SUGGESTED EROSION AND SEDIMENT CONTROL PLAN
C004	07	PC-13 ON C-41A CANAL SUGGESTED DEWATERING AND BYPASS PLAN
C005	08	PC-13 ON C-41A CANAL DEMOLITION PLAN
C006	09	PC-13 ON C-41A CANAL PROPOSED SITE PLAN DURING CONSTRUCTION
C007	10	PC-13 ON C-41A CANAL PROPOSED GRADING PLAN
C008	11	PC-13 ON C-41A CANAL PROPOSED FINAL SITE PLAN
C009	12	CROSS SECTIONS
C010	13	CIVIL DETAILS
S001	14	CATWALK AND PLATFORM PLAN
S002	15	CATWALK DETAILS
S003	16	CULVERT AND RISER DETAILS

GOVERNING BOARD

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JACQUI THURLOW-LIPPISCH
BOARD MEMBERS

APPROVED BY:

ALAN SHIRKEY, P.E.
BUREAU CHIEF,
ENGINEERING & CONSTRUCTION BUREAU
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION

PROJECT I.D. NO. 100378

The consultant, contractor or other parties associated with this project shall comply with Florida Statutes Chapter 119. These plans are the property of the District and must be secured and maintained in a confidential manner. Review by any unauthorized individual or outside/third party not performing work necessary for this project is prohibited.

This item has been electronically signed and sealed by DONALD J. NUELLE, P.E. on the date adjacent to the seals, using SHA-1 authentication codes. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication codes must be verified on any electronic copies.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
 ENGINEERING & CONSTRUCTION BUREAU
 PHONE: 561-686-8800
 3301 GUN CLUB ROAD
 WEST PALM BEACH, FLORIDA 33406



CORRECTED FINAL (RTA)
PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)
COVER SHEET

PROJECT ID NO.
100378
 DRAWING NUMBER
G001
 SHEET
01 of 16

ENGINEER: D. NUELLE
 DRAWN: R. TODD
 CHECKED: N. PANDYA
 DATE: JULY 2020
 SCALE: AS SHOWN

DATE	DRAWN	REF#	REVISION DESCRIPTION

GENERAL NOTES:

- IF ACTUAL FIELD CONDITIONS VARY FROM THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION DEBRIS.
- DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING STRUCTURES AND IMPROVEMENTS.
- THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC (MOT) PLAN TO FDOT FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE MOT PLAN SHALL BE PREPARED IN ACCORDANCE WITH FDOT INDEX 600. THE COST SHALL BE INCLUDED IN THE LUMP SUM COST OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE A COPY OF THE MOT PLAN TO THE DISTRICT.

CIVIL NOTES:

- ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- THE EXISTING CULVERT CROSSING SERVES AS THE ENTRANCE TO ADJACENT PRIVATE PROPERTY TO THE NORTH AND UNINTERRUPTED ACCESS TO THIS PROPERTY MUST BE MAINTAINED BY PROVIDING A BYPASS ROAD OF THE SAME VEHICULAR CAPACITY AS THE EXISTING CULVERT CROSSING ACROSS THE UPSTREAM EARTHEN BERM. THE CONTRACTOR MUST RETAIN ALL REQUIRED APPROVALS/PERMITS INCLUDING, BUT NOT LIMITED TO, FDOT APPROVALS/PERMITS FOR THE TEMPORARY NEW ACCESS CONFIGURATION AND MAINTENANCE OF TRAFFIC.
- MAINTAIN AND REPAIR EROSION AND SEDIMENT CONTROL DEVICES AS NECESSARY.
- CLEARING ON THE SITE SHALL BE IN ACCORDANCE WITH STANDARD CLEARING AND GRUBBING PROCEDURES AND SECTION 02110.
- RESTORE ALL AREAS TO EXISTING CONDITION IF DISTURBED BY STAGING OR CONSTRUCTION ACTIVITIES.
- SOD THE PROPOSED CANAL BANK FROM WITHIN 1' OF WATER LEVEL IN ACCORDANCE WITH SECTION 01010.
- SOD ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS EXCEPT WHERE A PAVED, CONCRETE OR ROCK SURFACE IS DESIGNATED ON THE DRAWINGS.
- SITE CONSTRUCTION REQUIRING BY-PASS SHALL BE ACCOMPLISHED DURING THE DRY-SEASON (DECEMBER 1 - MAY 15).

SURVEY NOTES:

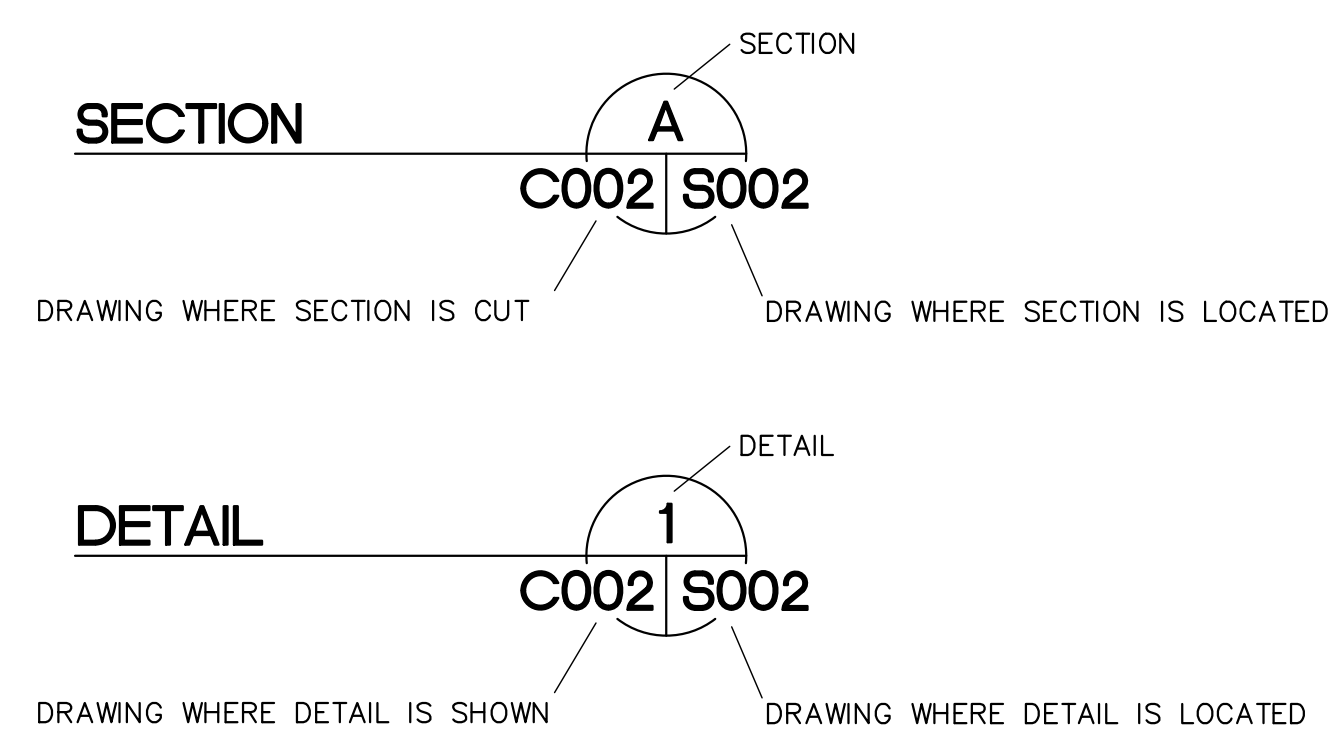
- ALL PROPOSED WORK IS WITHIN THE DISTRICT RIGHT-OF-WAY AND APPROVED EASEMENT LIMITS.
- THESE DRAWINGS HAVE BEEN ADAPTED FROM THE FOLLOWING SURVEYS:
A. C-41A CANAL, PC13N SITE TOPOGRAPHIC SURVEY BY BISCAYNE ENGINEERING, DATED JANUARY 01, 2019 WHICH IS AVAILABLE FOR CONTRACTOR REVIEW AND USE UPON WRITTEN REQUEST.
- ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) AND WERE ESTABLISHED BY DIFFERENTIAL LEVELING METHODS USING A TRIMBLE DINI DIGITAL LEVEL FROM RECOVERED N.G.S. BENCHMARK, PID AJ5670, DESIGNATION Y 528, ELEV. = 34.89 (NAVD 88).
- A VERTICAL OFFSET OF (+)1.21- FEET CAN BE UTILIZED WITHIN THE LIMITS OF THIS PROJECT TO CONVERT N.A.V.D 88 ELEVATIONS TO NATIONAL GEODETIC VERTICAL DATUM 1929 (N.G.V.D. 1929).
- COORDINATE VALUES SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET AND WERE OBTAINED / DERIVED BY REDUNDANT METHODS USING DIFFERENTIAL GPS AND ARE BASED ON THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (N.A.D. 83-2011), FLORIDA EAST ZONE 0901 AND ARE REFERENCED TO THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
- ANY PUBLIC LAND CORNERS OR SURVEY CONTROL POINTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A CORNER MONUMENT OR SURVEY CONTROL POINT IS IN DANGER OF BEING DESTROYED OR DISTURBED AND HAS NOT BEEN PROPERLY REFERENCED, NOTIFY THE DISTRICT SURVEYING AND MAPPING SECTION PRIOR TO PROCEEDING WITH THE WORK.

UTILITY NOTES:

- THE CONTRACTOR SHALL CONTACT FLORIDA SUNSHINE ONE CALL TO VERIFY UNDERGROUND UTILITIES WITHIN THE PROJECT SITE. THE FLORIDA SUNSHINE ONE TELEPHONE NUMBER IS 811.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIRING ALL DAMAGED UTILITIES.
- THE CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND UTILITIES.

ABBREVIATIONS:

AL	ALUMINUM
APPROX	APPROXIMATE
AWS	AMERICAN WELDING SOCIETY
CAP	CORRUGATED ALUMINUM PIPE
CFS	CUBIC FEET PER SECOND
CIP	CAST IN PLACE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DIA	DIAMETER
DWG	DRAWING
ELEV/EL	ELEVATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FP&L	FLORIDA POWER & LIGHT
FPRN	FLORIDA PERMANENT REFERENCE NETWORK
FT	FEET OR FOOT
GALV	GALVANIZED
HORIZ	HORIZONTAL/HORIZONTALLY
MAX	MAXIMUM
MEG	MATCH EXISTING GRADE
MIN	MINIMUM
MOT	MAINTENANCE OF TRAFFIC
MPH	MILES PER HOUR
NAD	NORTH AMERICAN DATUM OF 1983
NAVD	NORTH AMERICAN VERTICAL DATUM OF 1988
NEC	NATIONAL ELECTRIC CODE
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
OC	ON CENTER
OHE	OVERHEAD ELECTRIC
OHW	ORDINARY HIGH WATER
PVC	POLYVINYL CHLORIDE
ROW	RIGHT-OF-WAY
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SFWM/DISTRICT	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
SPEC	SPECIFICATION
SO	SQUARE
SS	STAINLESS STEEL
TOB	TOP OF BANK
TOE/TOS	TOE OF SLOPE
TYP	TYPICAL
W/	WITH



LEGEND:

	EXISTING ELEVATION
	PROPOSED ELEVATION
	SLOPE (2 HORIZONTAL TO 1 VERTICAL)
	DIRECTION OF TRAVEL/FLOW
	STAFF GAUGE
	ANTENNA POLE
	WORKPOINT
	SOIL BORING LOCATION
	PROPOSED SLOPE
	EXISTING CONTOURS
	LIMITS OF CONSTRUCTION
	SUGGESTED SILT FENCE
	FLOATING TURBIDITY BARRIER
	EASEMENT LINE
	CANAL RIGHT-OF-WAY
	FENCE
	SUGGESTED BYPASS PIPING
	BOAT BARRIER
	SHEETPILE
	TUFFBOOM
	SLOPED AREA WITH DIRECTION
	STAGING AREA
	RIPRAP
	COMPACTED BACKFILL
	FILL/STOCKPILE AREA
	CUT/EXCAVATE
	DEMOLITION/REMOVAL
	LIMEROCK BASE
	GRAVEL/BEDDING STONE
	EXISTING UNDISTURBED GROUND
	SILICA FILTER SAND

ENGINEER: D. NUELLE
 DRAWING: R. TODD
 CHECKED: N. PANDYA
 DATE: JULY 2020
 SCALE: AS SHOWN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
 ENGINEERING & CONSTRUCTION BUREAU
 PHONE: 561-686-8800
 3301 GUN CLUB ROAD
 WEST PALM BEACH, FLORIDA 33406



GENERAL NOTES
 PC REPLACEMENT
 OKEECHOBEE FIELD STATION AREA (C41A-PC13N)

CORRECTED FINAL (RTA)

ENGINEER OF RECORD:
 DONALD J. NUELLE, P.E.
 FLORIDA P.E. LICENSE NO: 52046

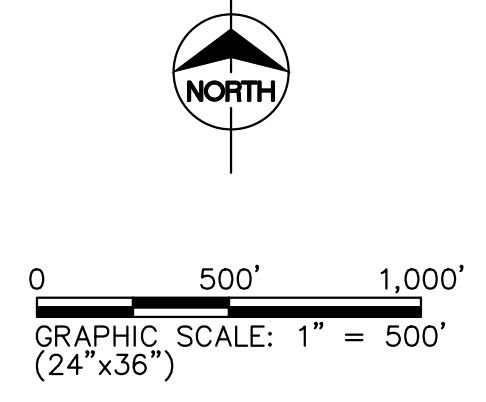
PROJECT ID NO.
 100378

DRAWING NUMBER
G002

SHEET
02 of 16



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ACCESS MAP
SCALE: 1" = 500'

Always call 811 two full business days before you dig to have underground utilities located and marked.



ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO.: 52046

CORRECTED FINAL (RTA)

**PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)**

ACCESS MAP

PROJECT ID NO.
100378
DRAWING NUMBER
G003
SHEET
03 of 16

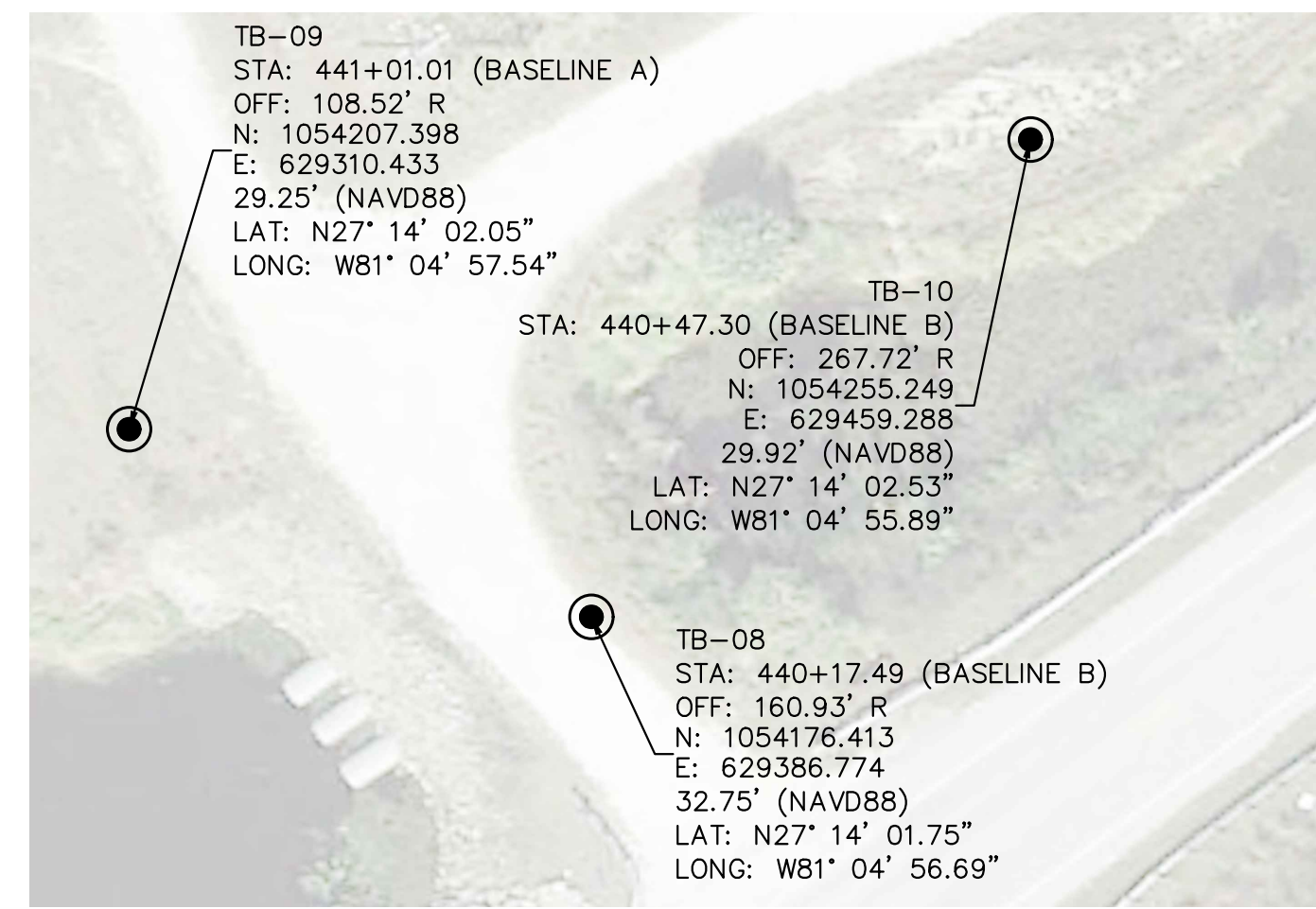
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU
PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406



ENGINEER: D. NUELLE
DRAWN: R. TODD
CHECKED: N. PANDYA
DATE: JULY 2020
SCALE: AS SHOWN

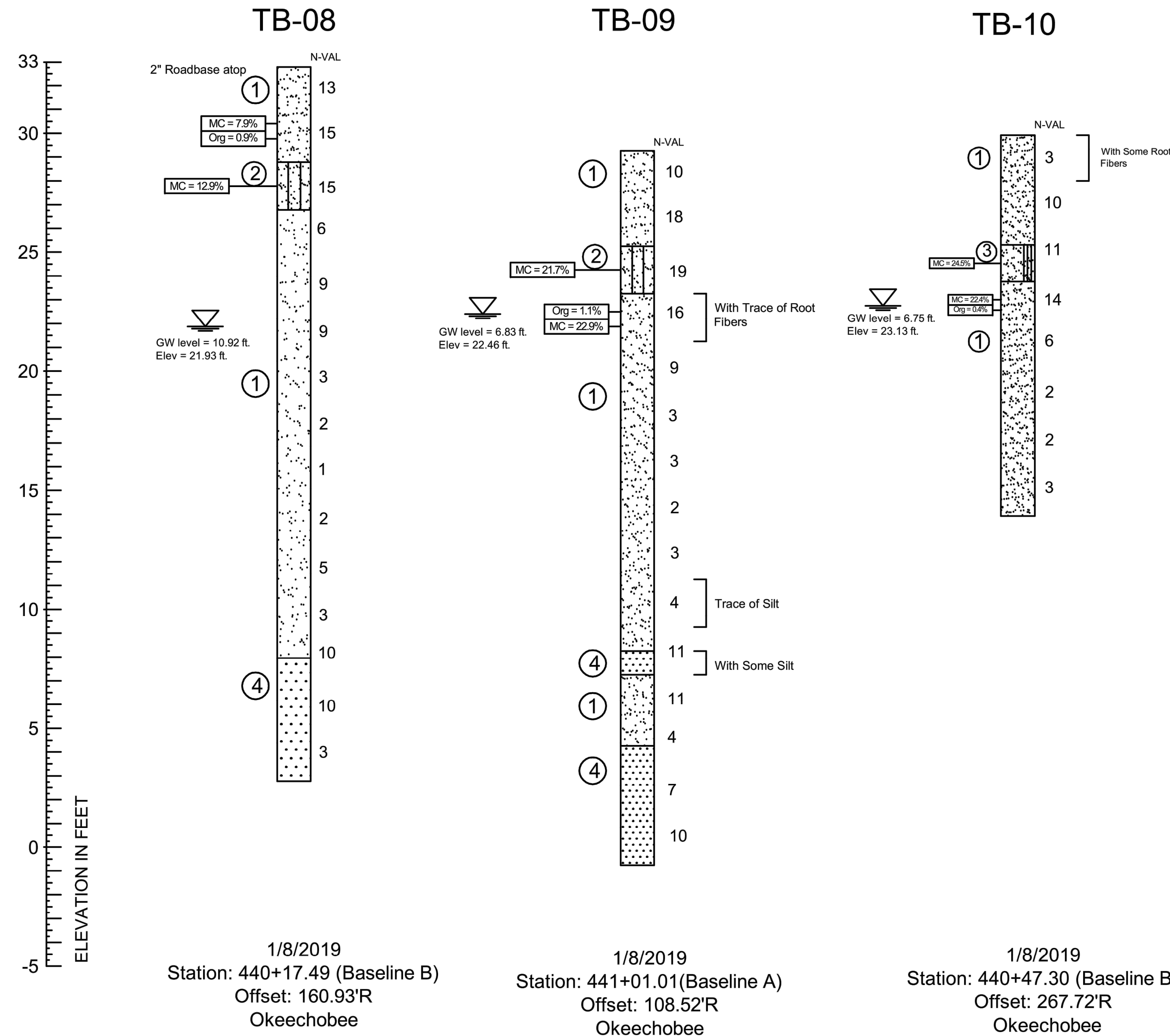
DATE	DRAWN	REF #	REVISION DESCRIPTION

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C-IN BORING PLAN
SCALE: 1" = 30'

SOIL PROFILES



- SOIL LEGEND**
- ① Dark Yellowish Brown to Yellowish Brown, Olive Brown, Brown, SAND (SP) Very Loose to Medium Dense
 - ② Yellowish Brown to Brown, SAND WITH SILT (SM) Medium Dense
 - ③ Dark Yellowish Brown, SAND WITH SOME SILT (SP-SM) Medium Dense
 - ④ Gray, SAND WITH SHELL FRAGMENTS (SP) Very Loose to Medium Dense

- SOIL PROFILE LEGEND**
- B-X = BORING NUMBER
 - SOIL TYPE (X) N = SPT TEST VALUE
 - GROUND WATER LEVEL
 - INDICATES PRACTICAL REFUSAL TO BORING EQUIPMENT
 - INDICATES GRADUAL TRANSITION IN SOIL TYPES

- NOTES:**
- N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE. NUMBERS TO THE RIGHT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
 - WOH - BORING INTERVAL ADVANCED UNDER WEIGHT OF HAMMER.
 - WOR - BORING INTERVAL ADVANCED UNDER WEIGHT OF ROD.
 - LFC - LOSS OF DRILLING FLUID CIRCULATION.
 - WLS - WEATHERED LIMESTONE
 - HA - NO RECORDED N-VALUE DUE TO HAND AUGERING PROCEDURE
 - MC - MOISTURE CONTENT
 - ORG - ORGANIC CONTENT



NOTE:
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CORRECTED FINAL (RTA)

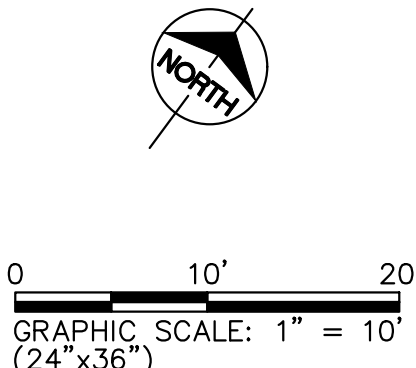
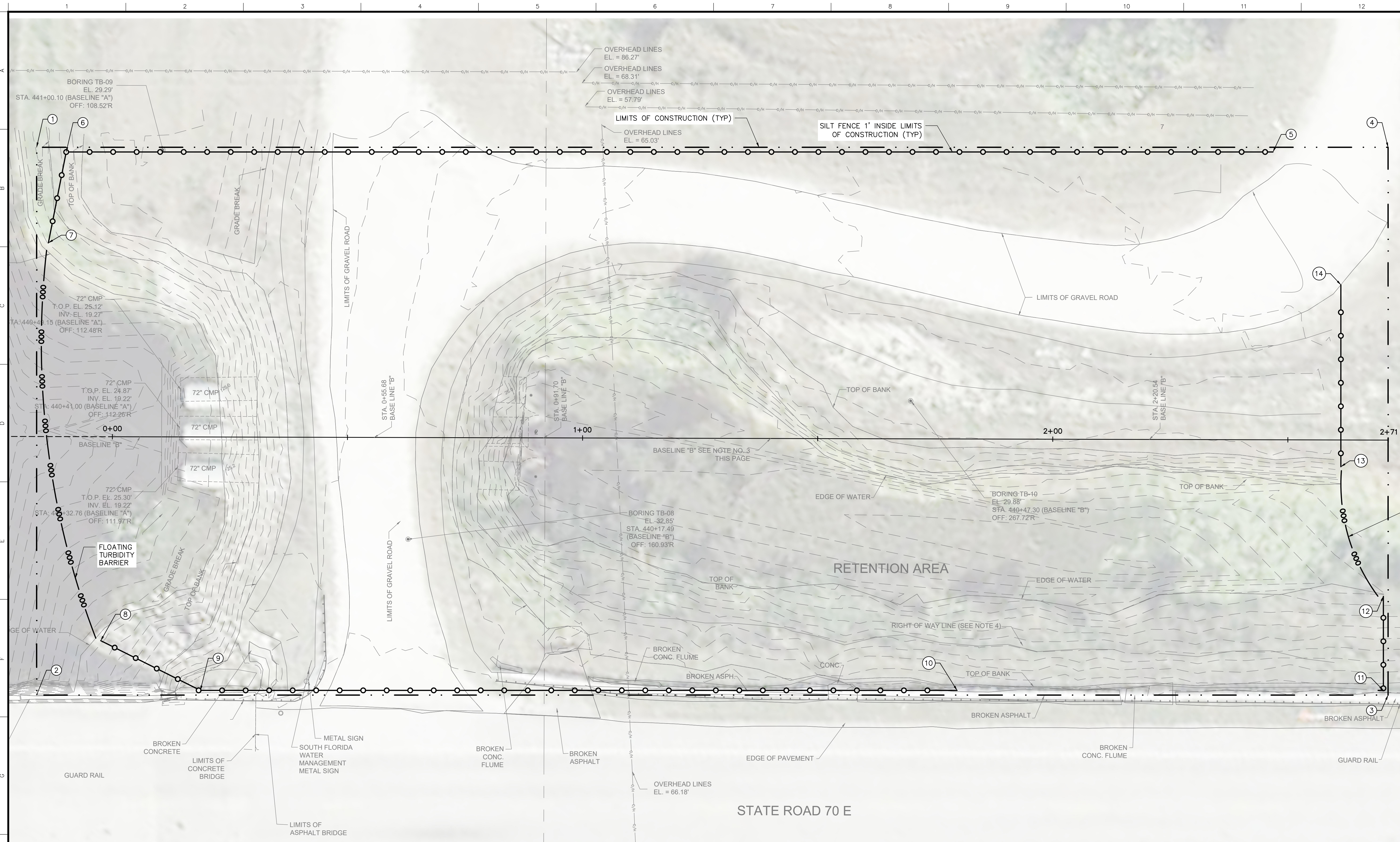
PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)
PC-13 ON C-41A BORING PLAN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU
PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

ENGINEER: D. NUELLE	DATE: JULY 2020
DRAWN: R. TODD	SCALE: AS SHOWN
CHECKED: N. PANDYA	REVISION DESCRIPTION
DATE: JULY 2020	REF#
SCALE: AS SHOWN	DATE
DATE: JULY 2020	DATE
SCALE: AS SHOWN	DATE

PROJECT ID NO. 100378
DRAWING NUMBER C001
SHEET 04 of 16

RAY100378 - Okeechobee Fc Replacement\Drawing Native Files\04 PC-13 ON C-41A BORING PLAN.dwg - Thursday, August 6, 2020 2:57:13 PM



POINT TABLE		
POINT #	NORTHING	EASTING
1	1054187.1466	629279.9769
2	1054093.4571	629349.2771
3	1054264.3800	629580.3541
4	1054358.0695	629511.0539
5	1054342.7092	629491.9694
6	1054190.0824	629285.6276
7	1054172.2872	629294.0772
8	1054110.8746	629353.3520
9	1054114.9709	629376.6808
10	1054210.6719	629506.0626
11	1054264.5893	629578.9554
12	1054280.6793	629567.0540
13	1054297.4664	629543.3963
14	1054328.5760	629520.3851

- GENERAL NOTES:
- CONTRACTOR SHALL COORDINATE WORK WITH OVERHEAD POWER LINES.
 - CONTRACTOR IS RESPONSIBLE FOR BYPASS PUMPING SYSTEM DESIGN.
 - CONTRACTOR IS RESPONSIBLE FOR ALL FDOT APPROVALS/PERMITS FOR TEMPORARY DRIVEWAY CONNECTION AND MAINTENANCE OF TRAFFIC PLAN.

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CORRECTED FINAL (RTA)

PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC18N)

PC-18 ON C-41A CANAL SUGGESTED EROSION AND
SEDIMENT CONTROL PLAN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU

PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

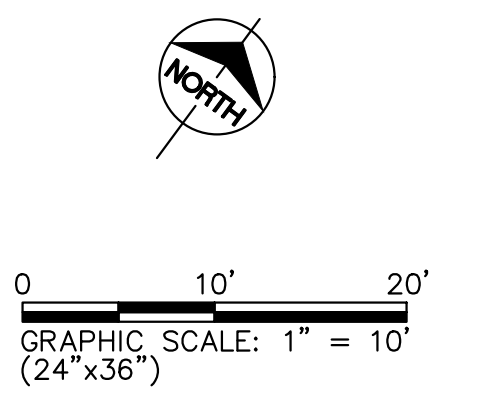
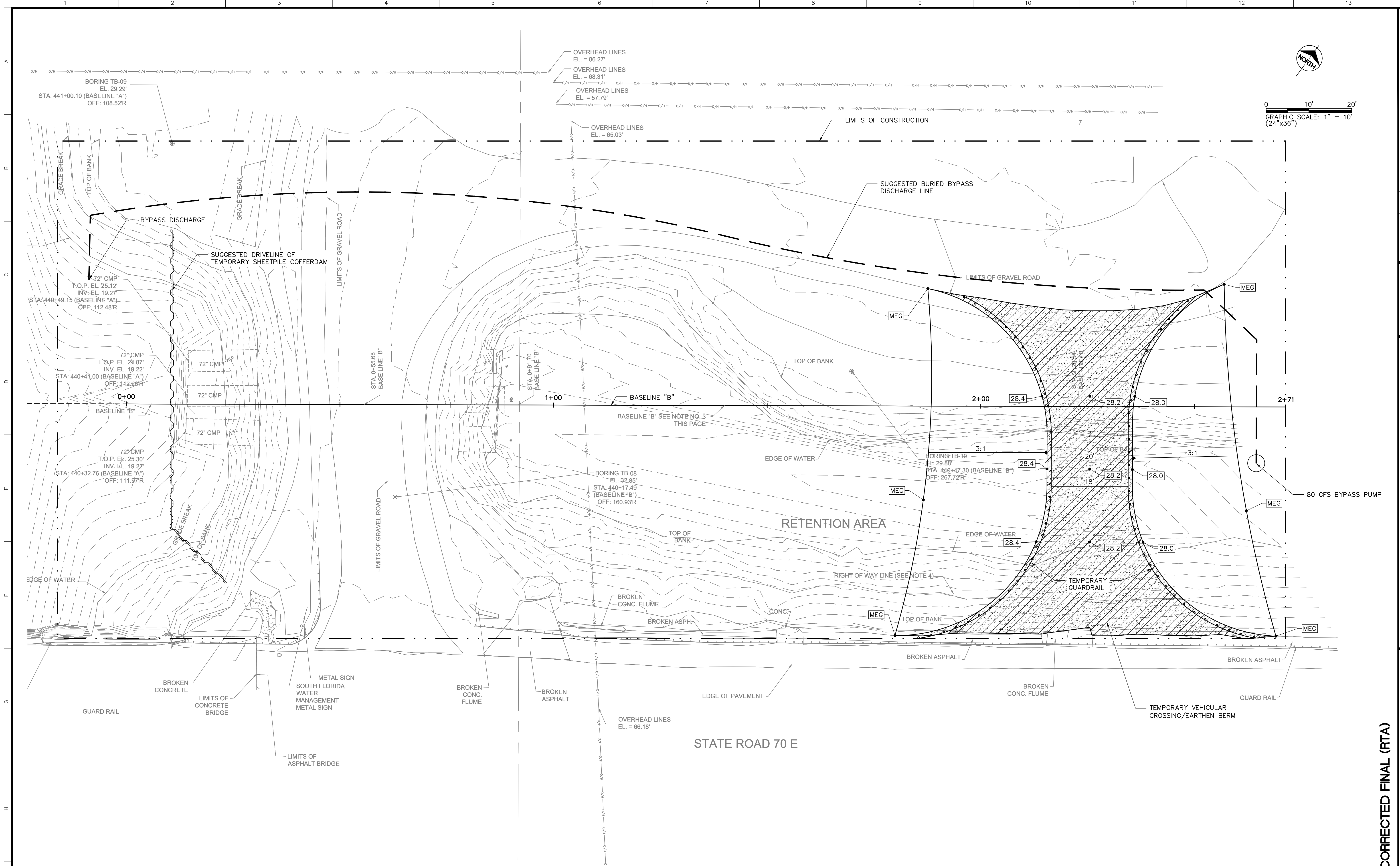


ENGINEER: D. NUELLE
DRAWN: R. TODD
CHECKED: N. PANDYA
DATE: JULY 2020
SCALE: AS SHOWN

DATE	DRAWN	REF #	REVISION DESCRIPTION

ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO. 52046

PROJECT ID NO.
100378
DRAWING NUMBER
C003
SHEET
06 of **16**



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ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO. 52046

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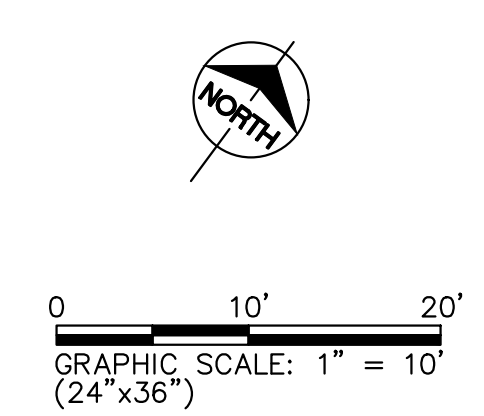
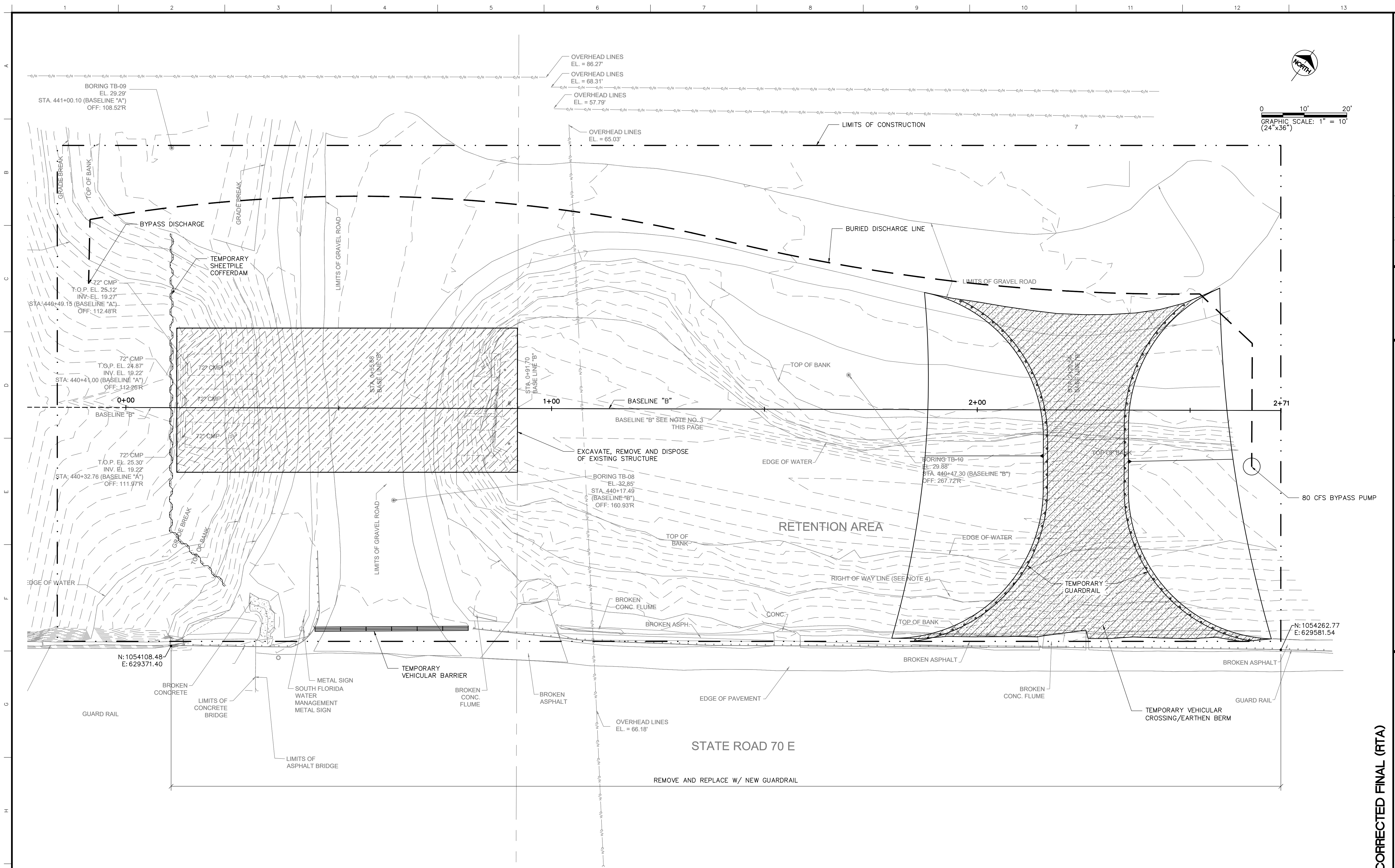
PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC18N)
PC-18 ON C-41A CANAL SUGGESTED DEWATERING AND BYPASS PLAN

PROJECT ID NO. 100378
DRAWING NUMBER C004
SHEET 07 OF 16

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU
PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406



ENGINEER	DRAWN	CHECKED	DATE	SCALE	REVISION DESCRIPTION
D. NUELLE	R. TODD	N. PANDYA	JULY 2020	AS SHOWN	



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ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO: 52046

PROJECT ID NO.
100378

DRAWING NUMBER
C005

SHEET
08 of 16

DATE:

CORRECTED FINAL (RTA)

**PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)
PC-13 ON C-41A CANAL DEMOLITION PLAN**

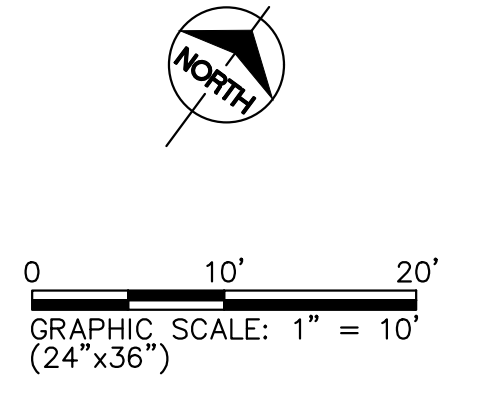
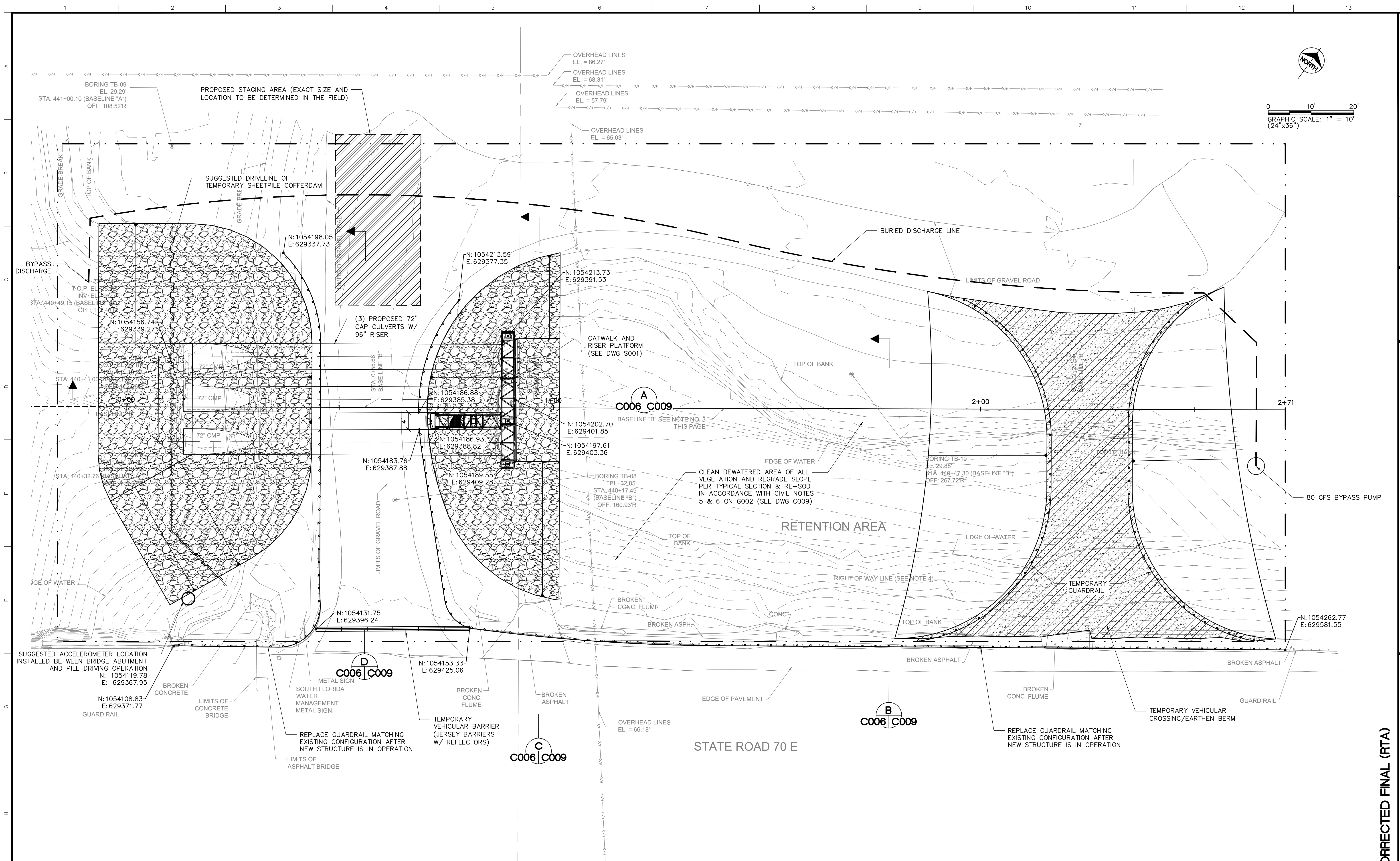


SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU

PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

ENGINEER: D. NUELLE
DRAWN: R. TODD
CHECKED: N. PANDYA
DATE: JULY 2020
SCALE: AS SHOWN

DATE	DRAWN	REF#	REVISION DESCRIPTION



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 2. CONTRACTOR IS RESPONSIBLE FOR BYPASS PUMPING SYSTEM DESIGN.
 3. CONTRACTOR IS RESPONSIBLE FOR ALL FDOT APPROVALS/PERMITS FOR TEMPORARY DRIVEWAY CONNECTION AND MAINTENANCE OF TRAFFIC PLAN.
 4. REGRADE ACCESS ROAD WHERE DISTURBED BY CONSTRUCTION ACTIVITIES. PROVIDE 2% MONOSLOPE TO DRAIN INTO ROADSIDE SWALE.

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ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO. 52046

CORRECTED FINAL (RTA)

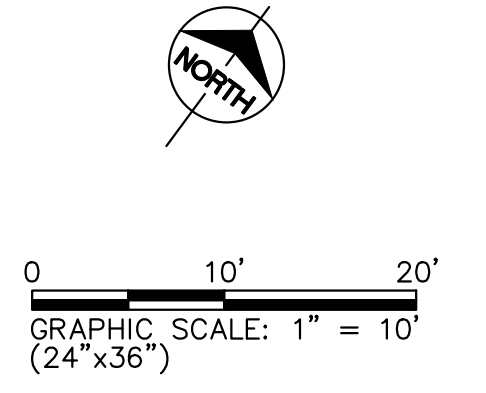
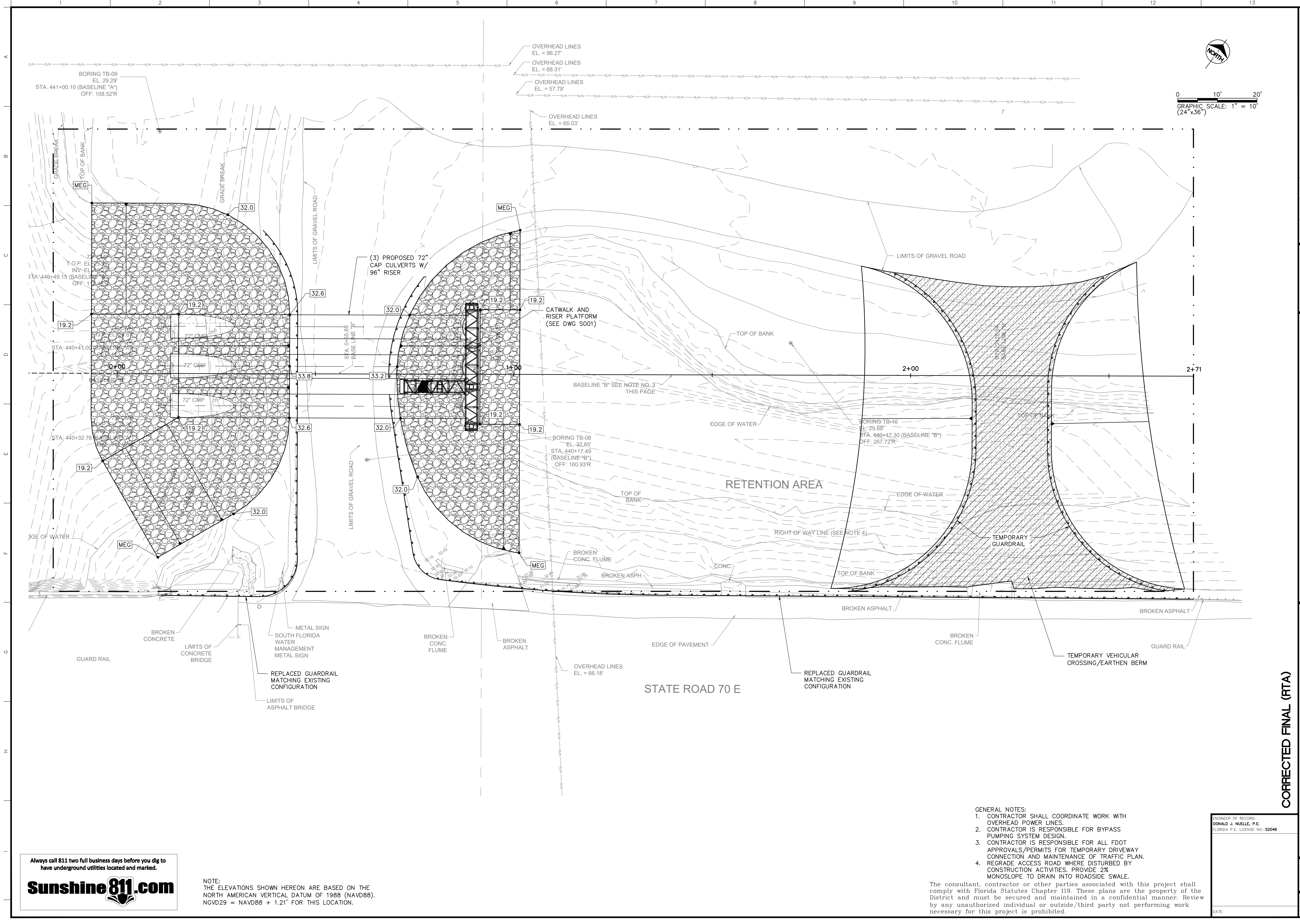
PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC18N)
PC-18 ON C-41A CANAL PROPOSED SITE PLAN DURING CONSTRUCTION

PROJECT ID NO. 100378
DRAWING NUMBER C006
SHEET 09 OF 16

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU
PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406



ENGINEER	DRAWN	CHECKED	DATE	SCALE	REVISION DESCRIPTION
D. NUELLE	R. TODD	N. PANDYA	JULY 2020	AS SHOWN	



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NOTE:
THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
NGVD29 = NAVD88 + 1.21' FOR THIS LOCATION.

- GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE WORK WITH OVERHEAD POWER LINES.
 2. CONTRACTOR IS RESPONSIBLE FOR BYPASS PUMPING SYSTEM DESIGN.
 3. CONTRACTOR IS RESPONSIBLE FOR ALL FDOT APPROVALS/PERMITS FOR TEMPORARY DRIVEWAY CONNECTION AND MAINTENANCE OF TRAFFIC PLAN.
 4. REGRADE ACCESS ROAD WHERE DISTURBED BY CONSTRUCTION ACTIVITIES. PROVIDE 2% MONOSLOPE TO DRAIN INTO ROADSIDE SWALE.

The consultant, contractor or other parties associated with this project shall comply with Florida Statutes Chapter 119. These plans are the property of the District and must be secured and maintained in a confidential manner. Review by any unauthorized individual or outside/third party not performing work necessary for this project is prohibited.

ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO: 52046

CORRECTED FINAL (RTA)

**PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)**

PC-13 ON C-41A CANAL PROPOSED GRADING PLAN

PROJECT ID NO.
100378

DRAWING NUMBER
C007

SHEET
10 of 16

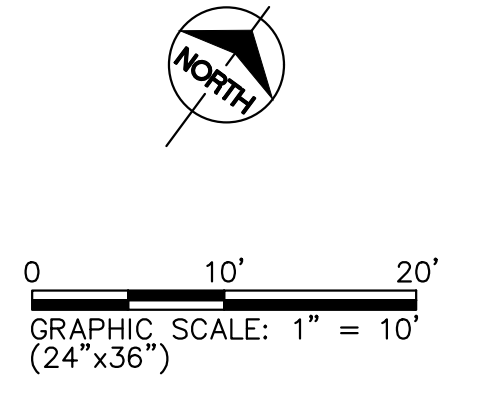
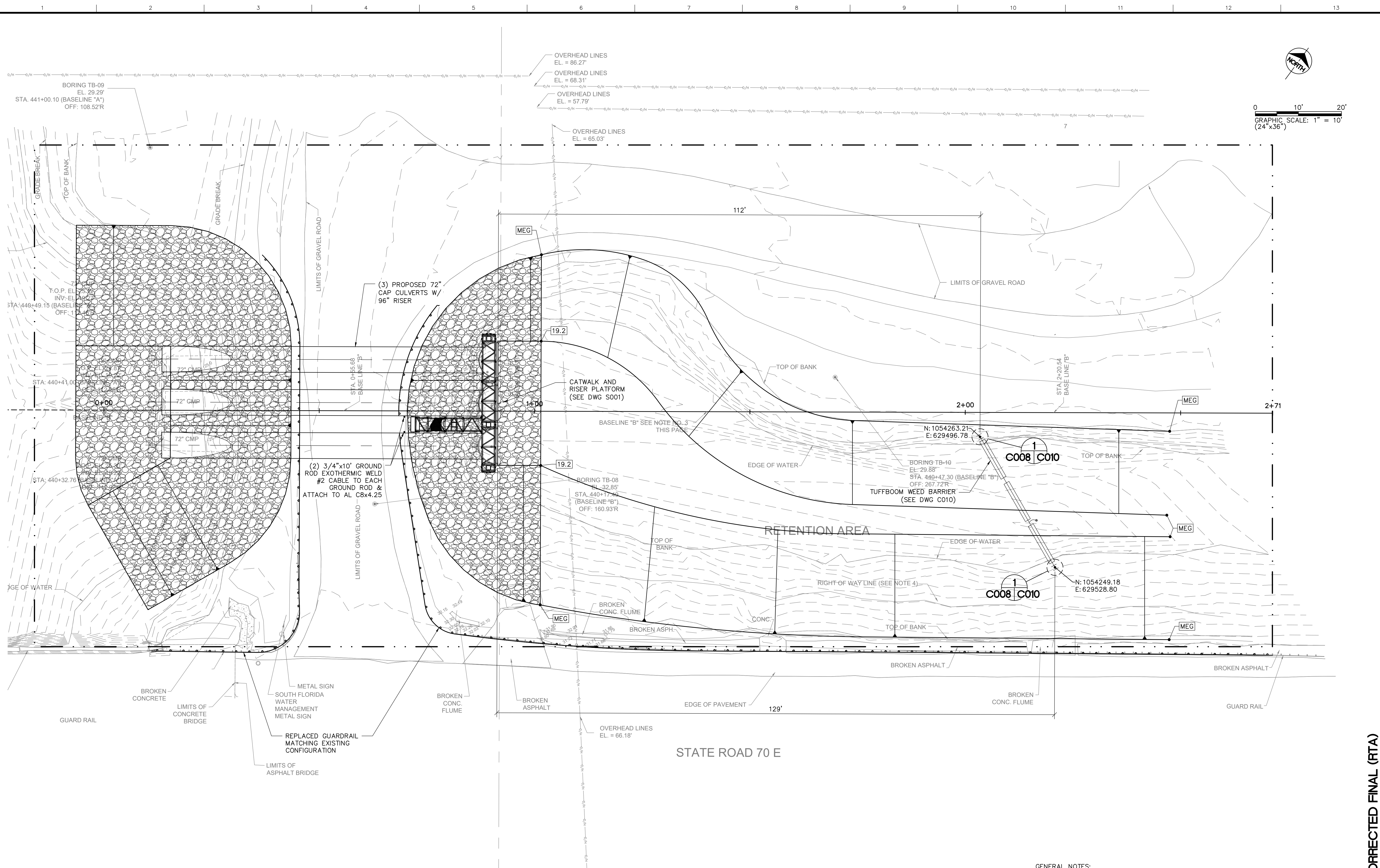
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU

PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406



ENGINEER: D. NUELLE
DRAWN: R. TODD
CHECKED: N. PANDYA
DATE: JULY 2020
SCALE: AS SHOWN

DATE	DRAWN	REF #	REVISION DESCRIPTION



Always call 811 two full business days before you dig to have underground utilities located and marked.

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ENGINEER OF RECORD:
 DONALD J. NUELLE, P.E.
 FLORIDA P.E. LICENSE NO. 52046

CORRECTED FINAL (RTA)

PC REPLACEMENT
 OKEECHOBEE FIELD STATION AREA (C41A-PC13N)
 PC-13 ON C-41A CANAL PROPOSED FINAL SITE PLAN

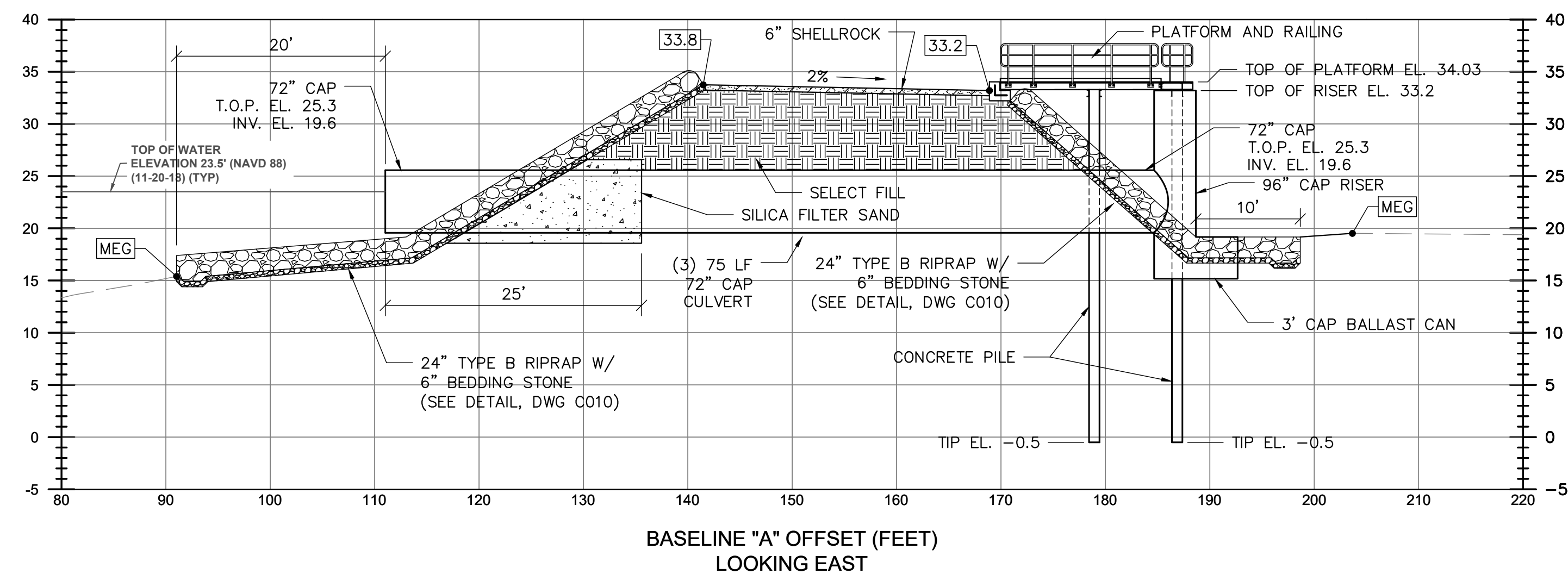
PROJECT ID NO.
 100378
 DRAWING NUMBER
C008
 SHEET
11 of 16

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
 ENGINEERING & CONSTRUCTION BUREAU
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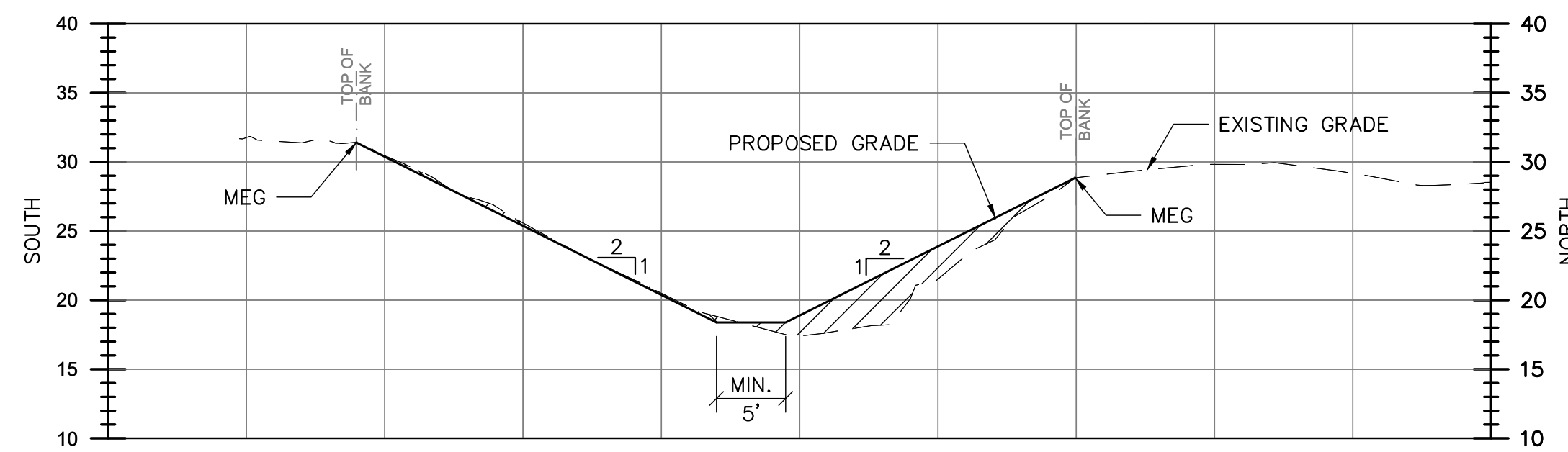


ENGINEER: D. NUELLE
 DRAWN: R. TODD
 CHECKED: N. PANDYA
 DATE: JULY 2020
 SCALE: AS SHOWN

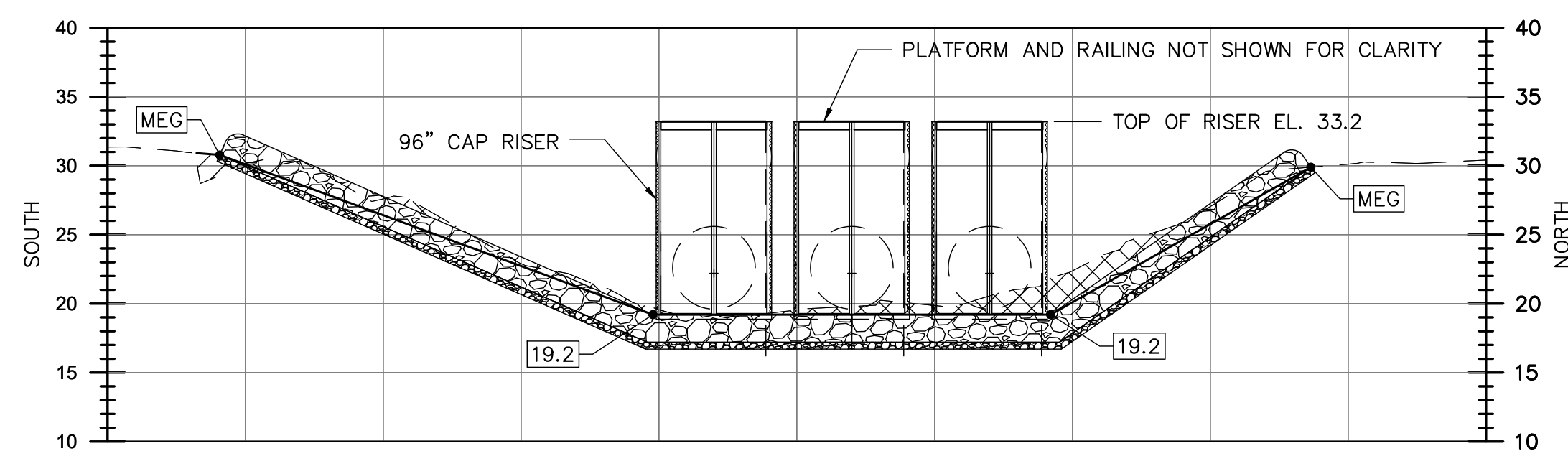
DATE	DRAWN	REF#	REVISION DESCRIPTION



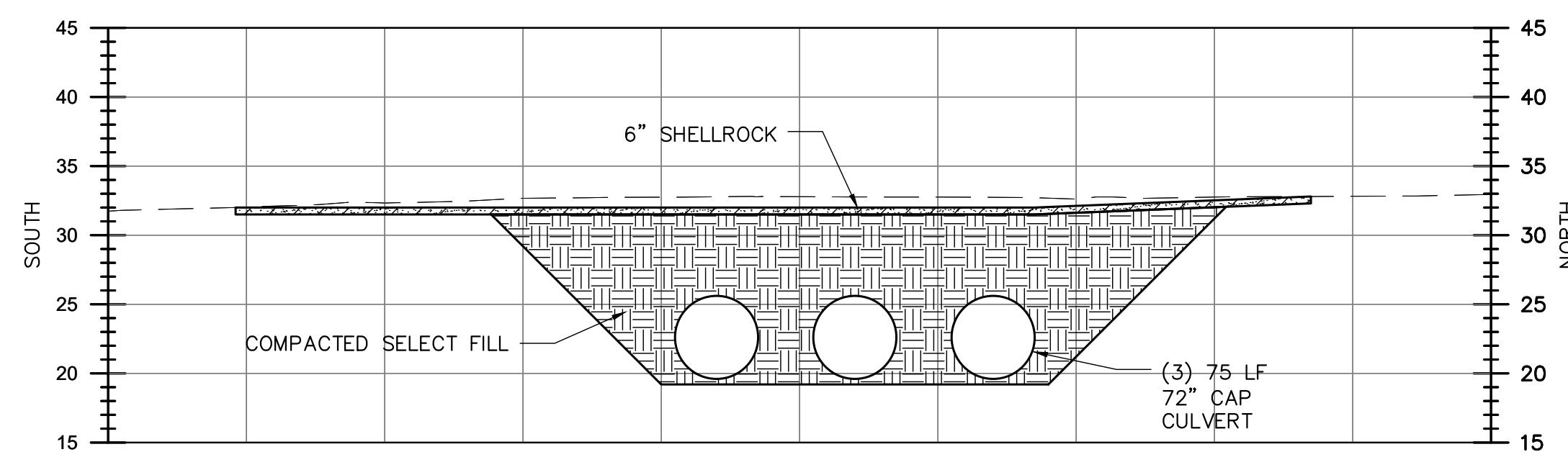
STRUCTURE CENTERLINE PROFILE A
 H. SCALE: 1" = 10'
 V. SCALE: 1" = 10'
 C006 C009



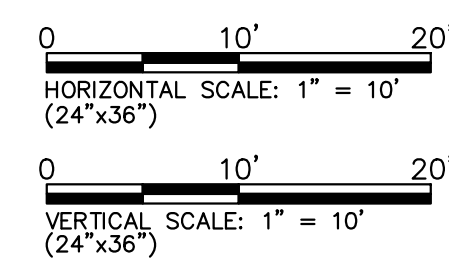
TYPICAL SECTION THROUGH DEWATERED CANAL B
 H. SCALE: 1" = 10'
 V. SCALE: 1" = 10'
 C006 C009



PROFILE AT HEADWATER RISERS C
 H. SCALE: 1" = 10'
 V. SCALE: 1" = 10'
 C006 C009



ROAD PROFILE AT CULVERT CROSSING D
 H. SCALE: 1" = 10'
 V. SCALE: 1" = 10'
 C006 C009



- GENERAL NOTES:**
- BACKFILL SHALL BE SELECT MATERIAL PLACED IN 12" LIFTS, COMPACTED TO 95% SEE SPECIFICATION 02200.
 - ALL MUCK AND VEGETATION REMOVED AS A RESULT OF THE CLEARING OF THE RETENTION AREA SHALL BE DISPOSED OF LAWFULLY OFFSITE.



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 FLORIDA P.E. LICENSE NO. 52046

CORRECTED FINAL (RTA)

PC REPLACEMENT
 OKEECHOBEE FIELD STATION AREA (C41A-PC13N)

CROSS SECTIONS

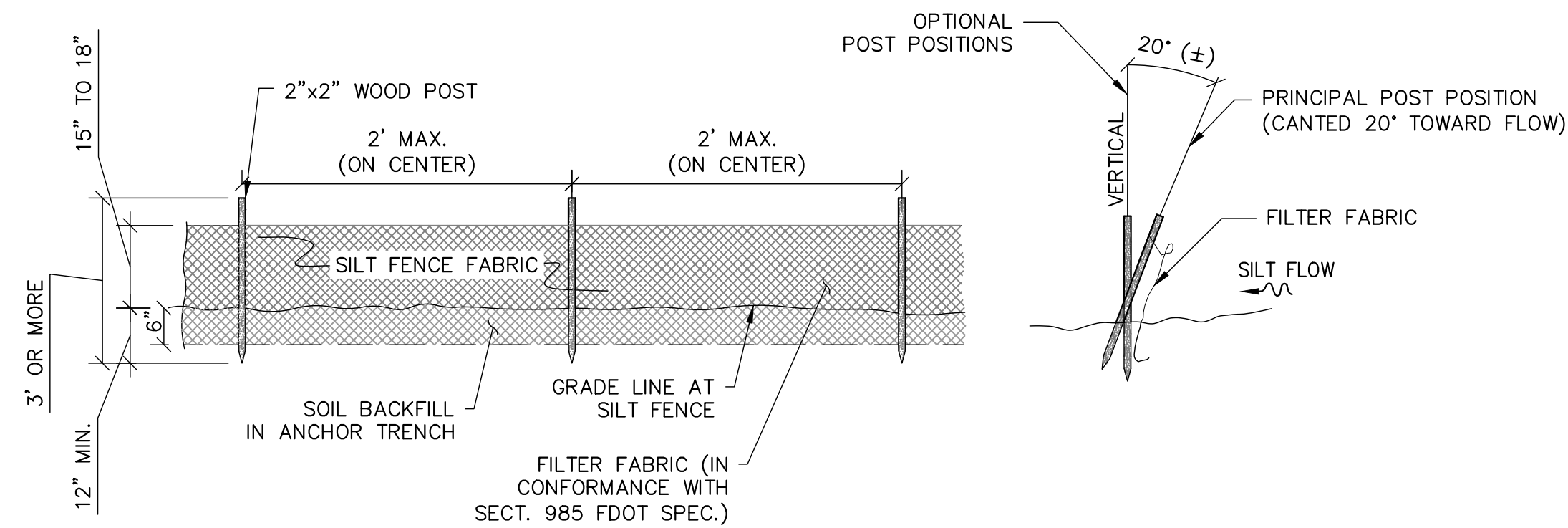
PROJECT ID NO.
 100378
 DRAWING NUMBER
C009
 SHEET
12 OF 16

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
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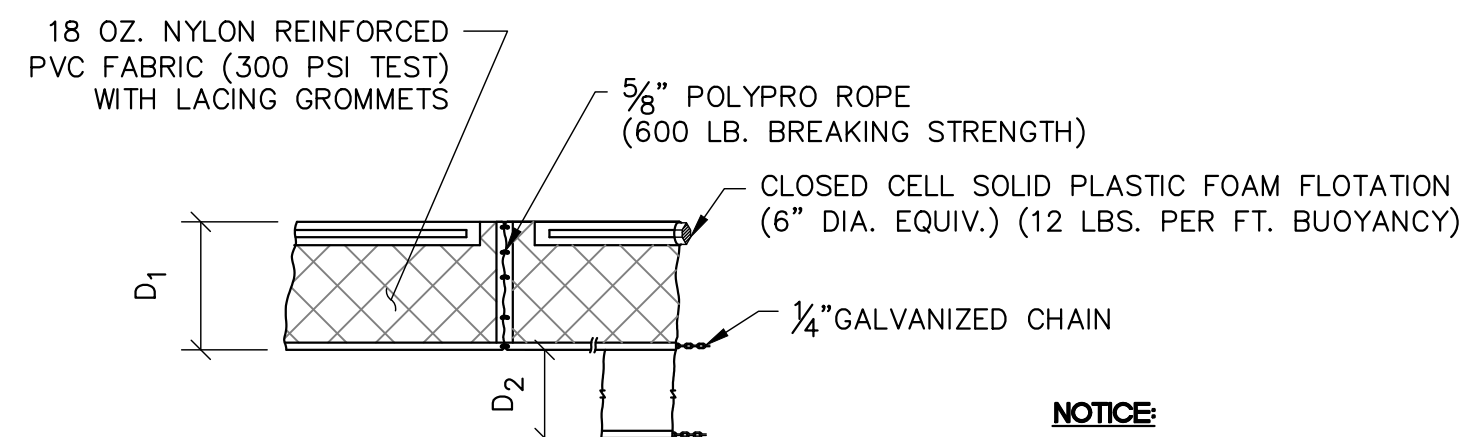


ENGINEER	DRAWN	CHECKED	DATE	SCALE	REF #	REVISION DESCRIPTION
D. NUELLE	R. TODD	N. PANDYA	JULY 2020	AS SHOWN		

RAY100378 - Okeechobee Fc Pc Replacement\Drawing Native Files\12 CROSS SECTIONS.dwg - Thursday, August 6, 2020 2:57:02 PM



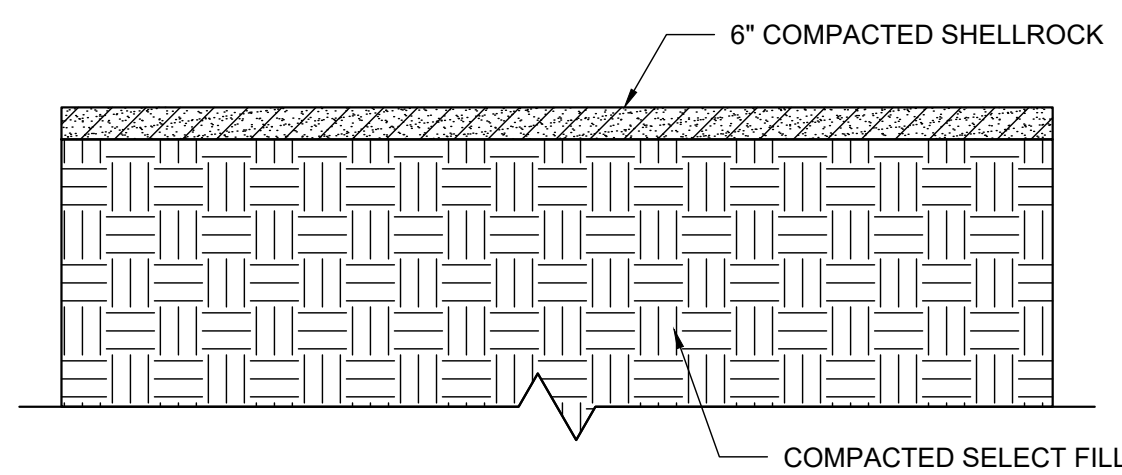
SILT FENCE BARRIER DETAILS
NOT TO SCALE



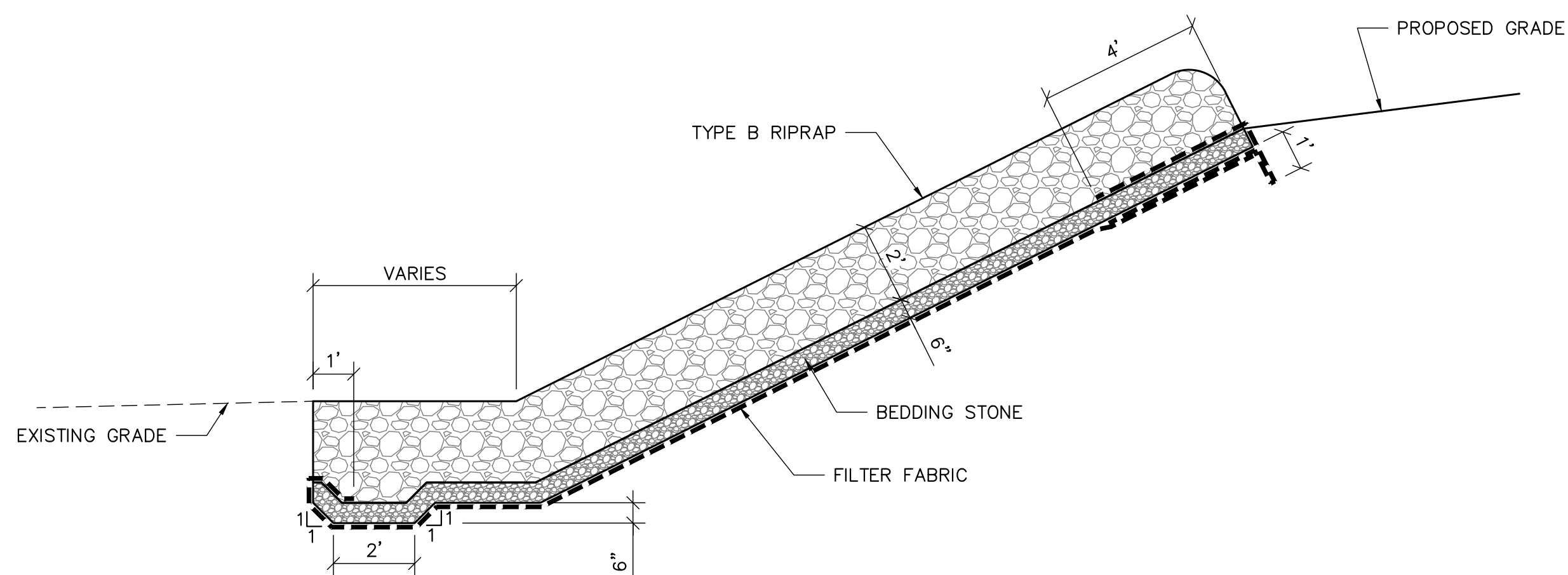
$D_1 = 5'$ STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
 $D_2 = 5'$ STD. (ADDITIONAL PANEL FOR DEPTHS >5').
 CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET (15 FT MINIMUM REQUIRED).
 TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET.

NOTICE:
 COMPONENTS OF THE TYPE I FLOATING TURBIDITY BARRIER MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTION FOR TYPE I SHALL BE AS APPROVED BY THE DISTRICT.

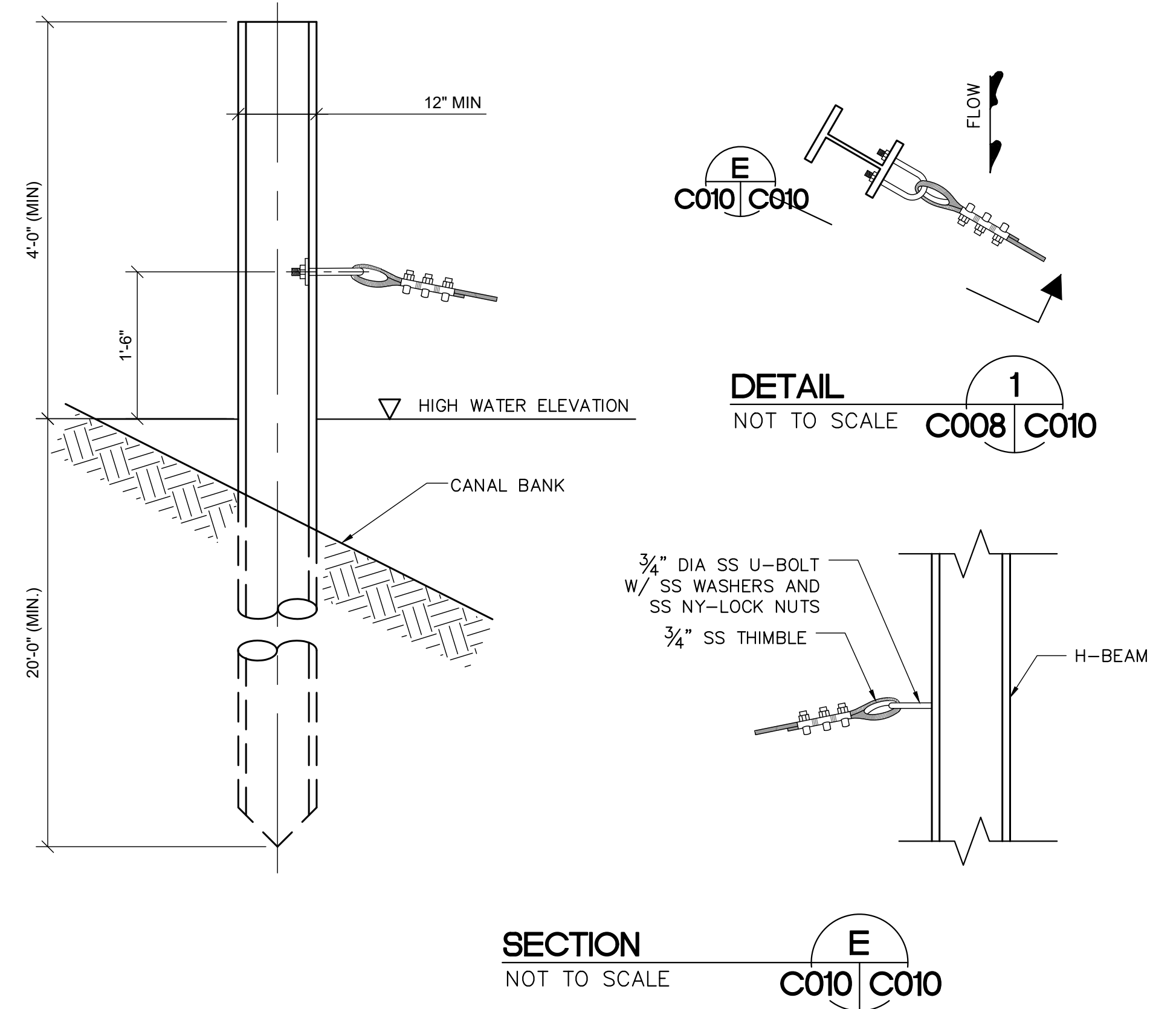
FLOATING TURBIDITY BARRIER DETAILS
NOT TO SCALE



SHELLROCK DETAIL
SCALE: 1" = 3'



RIPRAP DETAIL
SCALE: 1" = 3'



SECTION
NOT TO SCALE
C010 C010

DETAIL
NOT TO SCALE
C008 C010

GENERAL NOTES:

1. APPLICATION:
 - A. FLOATING BARRIERS SHALL BE PLACED UPSTREAM OF WATER CONTROL STRUCTURE TO PREVENT WEEDS FROM ENTERING THE STRUCTURE.
 - B. THE UPSTREAM BARRIER SHALL BE THE "TUFFBOOM" FLOATING BARRIER SYSTEM AS MANUFACTURED BY WORTHINGTON PRODUCTS (WWW.TUFFBOOM.COM) OR APPROVED EQUAL.
2. UPSTREAM TUFFBOOM:
 - A. SHALL MEET REQUIREMENTS OF SECTION 02782.
4. HARDWARE (TUFFBOOM BARRIER):
 - A. FASTENERS, NUTS, WASHERS AND ALL OTHER STEEL CONNECTION TO PILE SHALL BE STAINLESS STEEL.
5. PILES (TUFFBOOM BARRIER):
 - A. THE ANCHOR PILES SHALL BE DESIGNED AND CONSTRUCTED TO RESIST MINIMUM CHANNEL WATER VELOCITIES OF 10 FEET PER SECOND.
 - B. USE SINGLE PILE PER SIDE WHEN SPAN IS LESS THAN 150 FEET.

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ENGINEER OF RECORD:
 DONALD J. NUELLE, P.E.
 FLORIDA P.E. LICENSE NO. 52046

DATE:

CORRECTED FINAL (RTA)

PC REPLACEMENT
 OKEECHOBEE FIELD STATION AREA (C41A-PC13N)

CIVIL DETAILS

PROJECT ID NO.
 100378
 DRAWING NUMBER
 C010

SHEET
 13 of 16

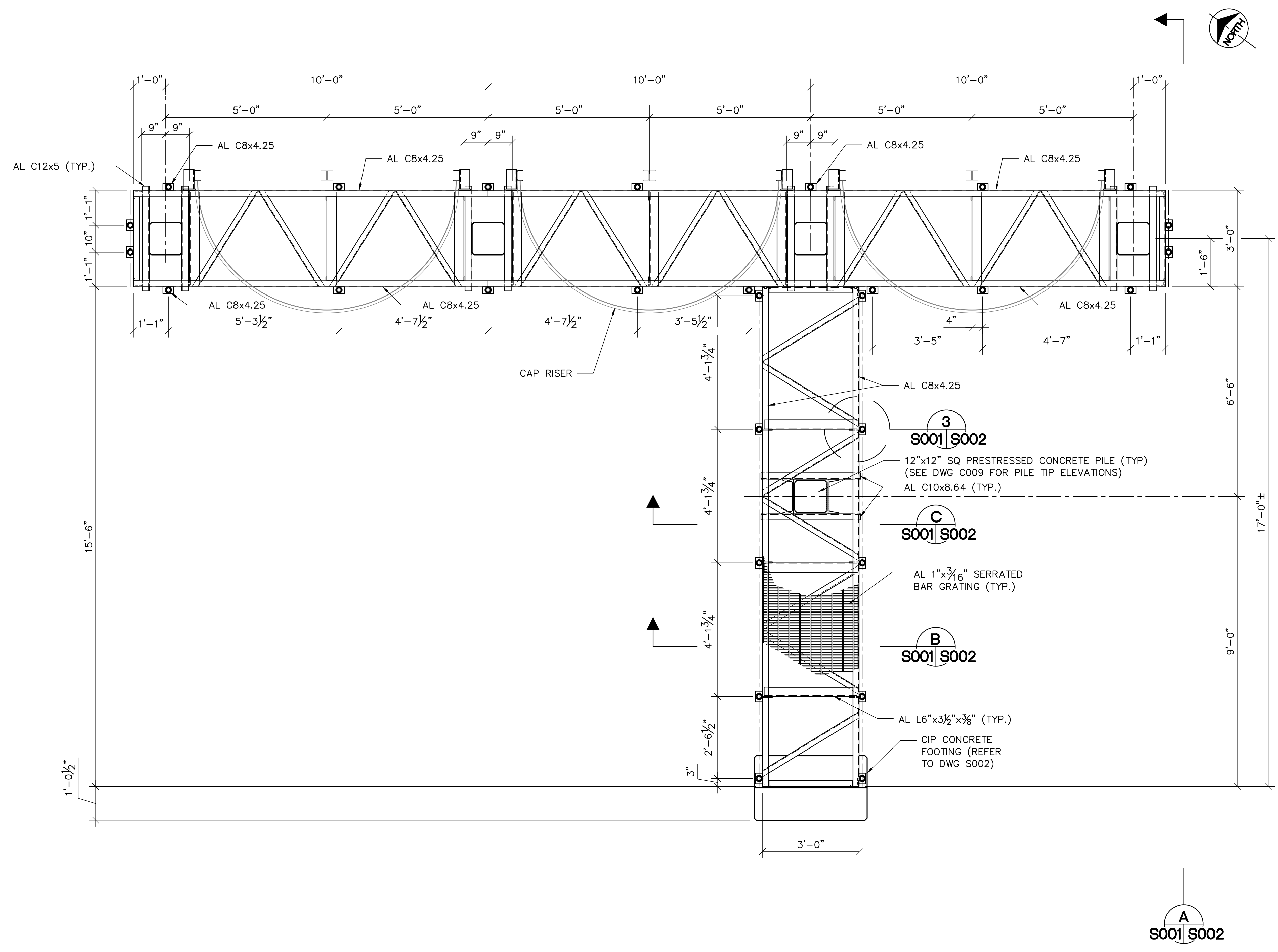
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
 ENGINEERING & CONSTRUCTION BUREAU
 PHONE: 561-686-8800
 3301 GUN CLUB ROAD
 WEST PALM BEACH, FLORIDA 33406



ENGINEER: D. NUELLE
 DRAWN: R. TODD
 CHECKED: N. PANDYA
 DATE: JULY 2020
 SCALE: AS SHOWN

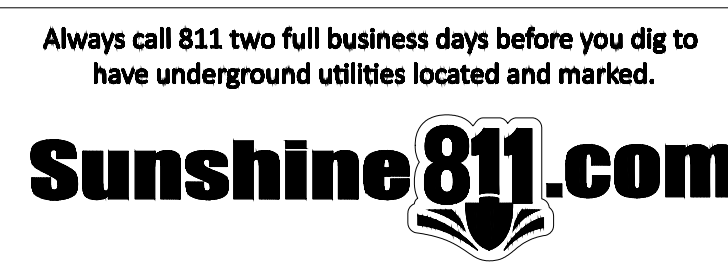
REVISION DESCRIPTION	DATE	DRAWN	REF#

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CATWALK FOOTING AND FRAMING PLAN
SCALE: 1/2" = 1'-0"

- NOTES:
1. ALUMINUM FRAMING AND BOLTS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTIONS 05550.
 2. CAP RISERS SHALL BE INDEPENDENTLY SUPPORTED WITH NO SUPPORT BEING PROVIDED BY CATWALK THROUGH CONNECTIONS SHOWN ABOVE.
 3. PROVIDE 1/2" MIN VERTICAL GAP BETWEEN AL C8x4.25 AND CAP RISER.
 4. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SEE SURVEY FOR BENCHMARK REFERENCES. NGVD29 = NAVD88 + 1.21' FOR THIS LOCATION (PC13N-C41A).



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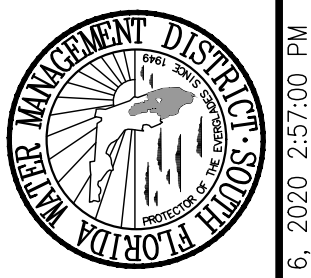
CORRECTED FINAL (RTA)

PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)
CATWALK AND PLATFORM PLAN

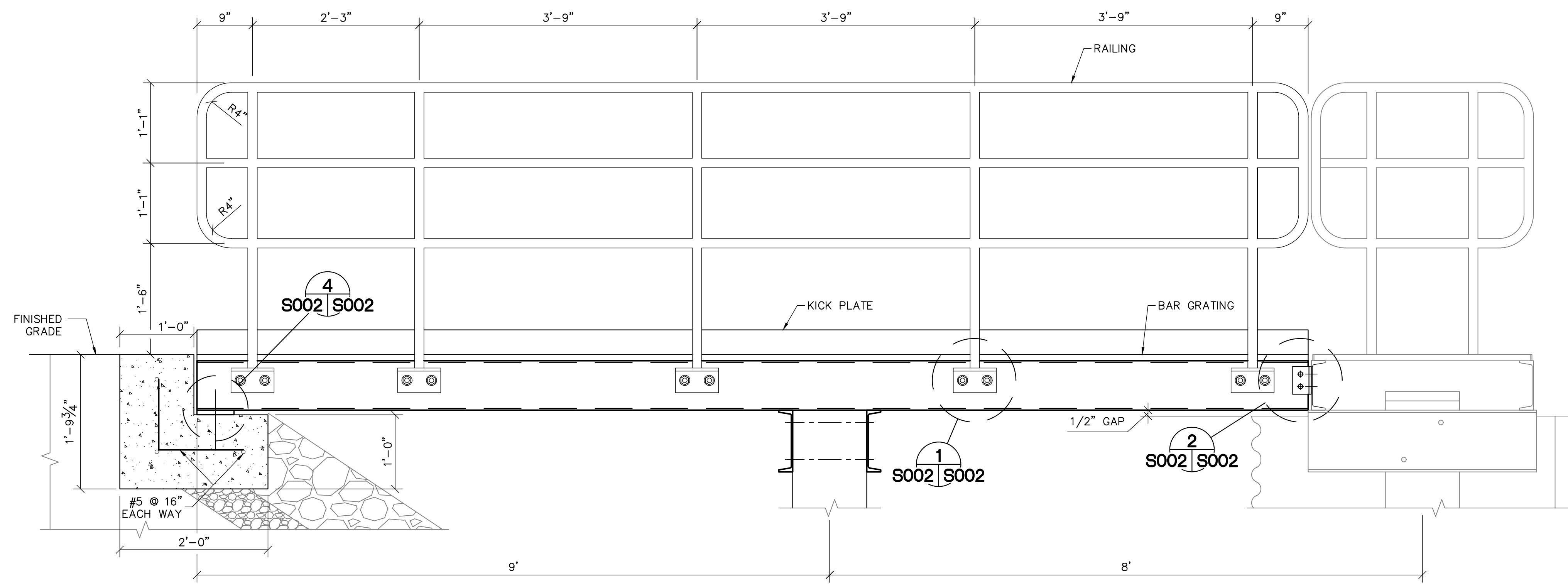
PROJECT ID NO.
100378
DRAWING NUMBER
S001
SHEET
14 OF **16**

ENGINEER: D. NUELLE
DRAWN: R. TODD
CHECKED: N. PANDYA
DATE: JULY 2020
SCALE: AS SHOWN

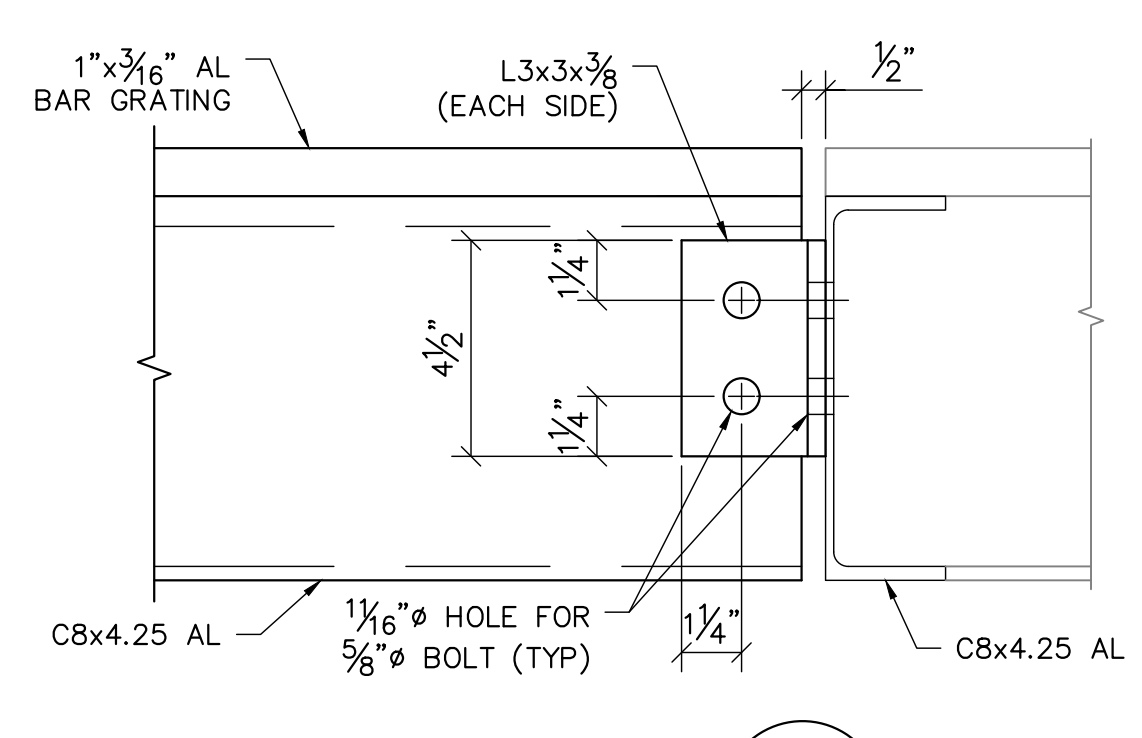
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU
PHONE: 561-686-8800
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406



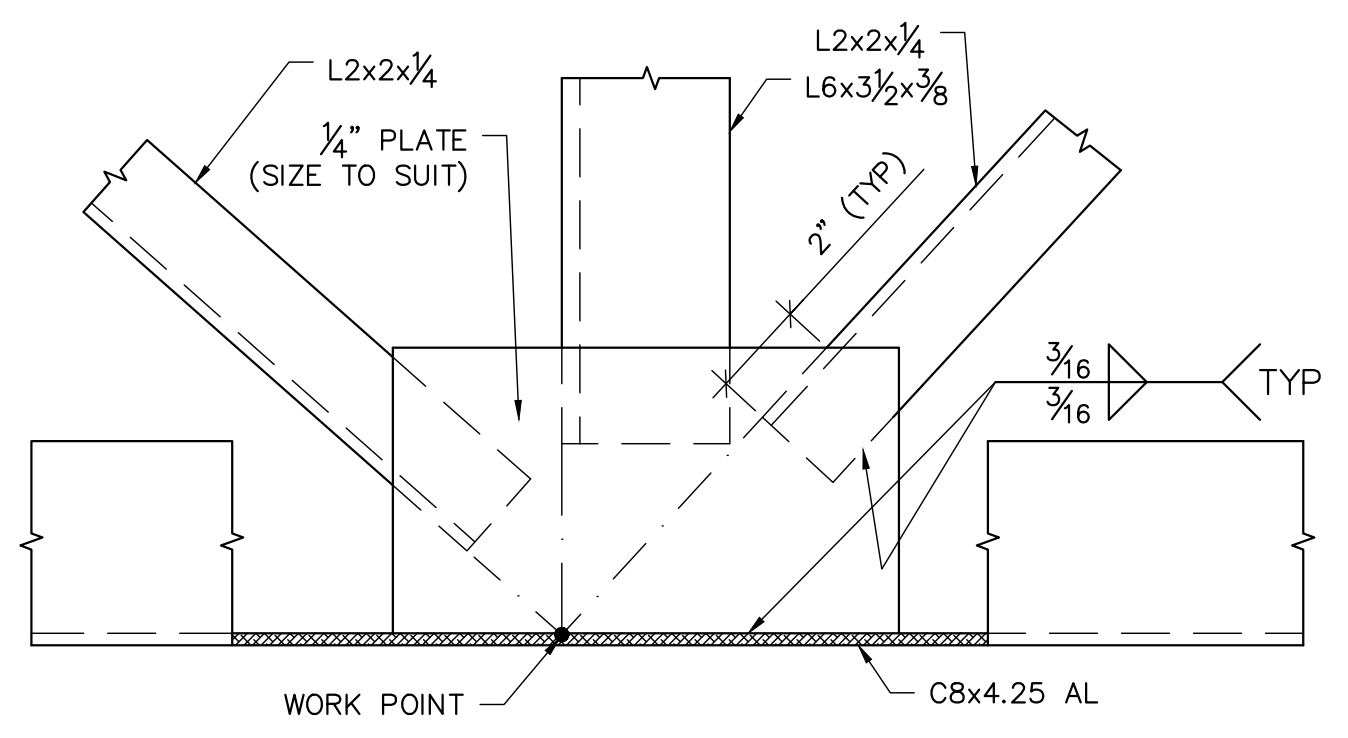
RAY100378 - Okeechobee Fc Pc Replacement\Drawing Native Files\14 CATWALK AND PLATFORM PLAN.dwg - Thursday, August 6, 2020 2:57:00 PM



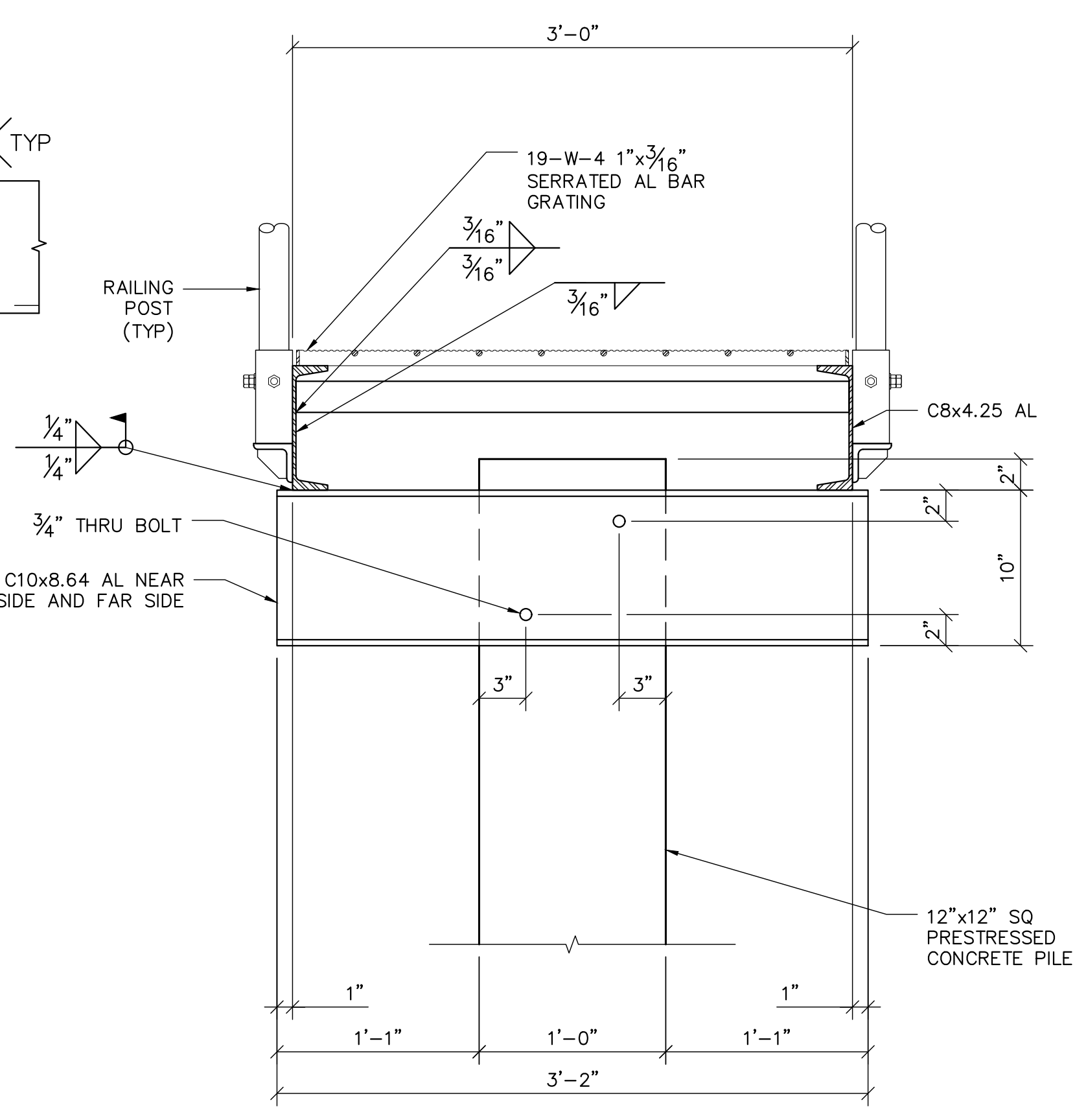
SECTION A
SCALE: 1" = 1'-0"
S001 S002



DETAIL 2
SCALE: 3" = 1'-0"
S002 S002

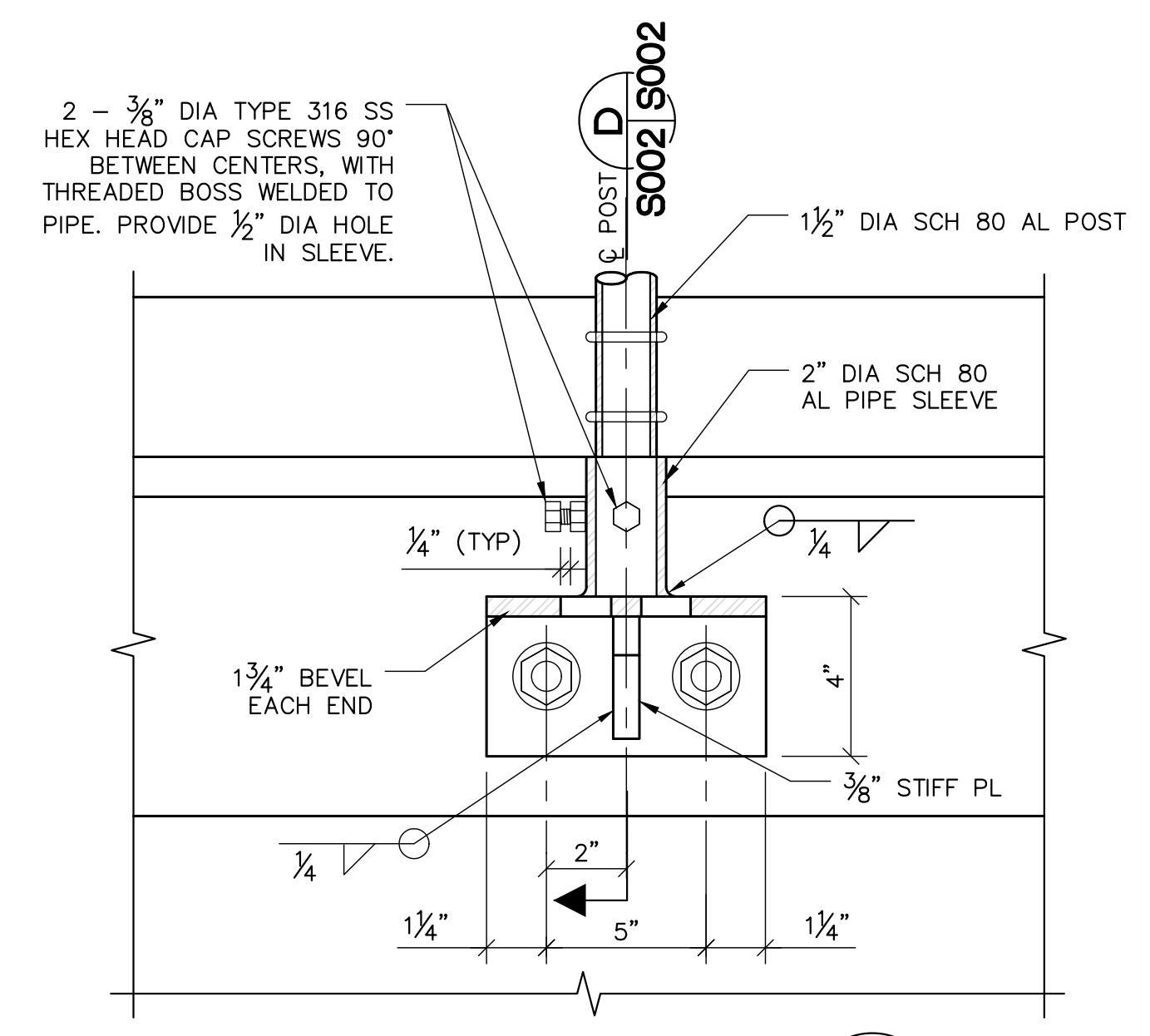


FRAMING DETAIL 3
SCALE: 3" = 1'-0"
S001 S002

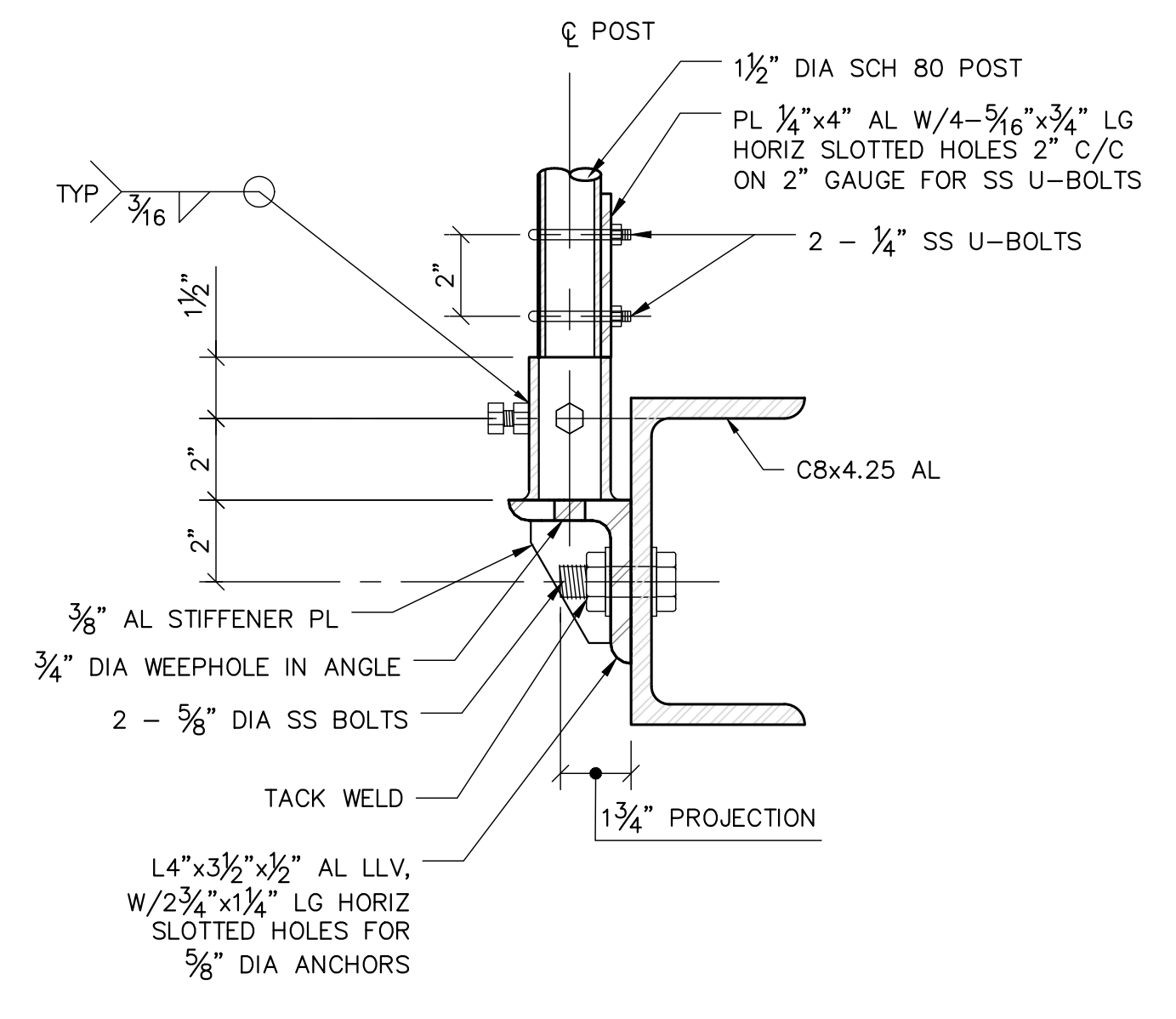


SECTION C
SCALE: 1 1/2" = 1'-0"
S001 S002

NOTE: BRACING BEYOND NOT SHOWN FOR CLARITY



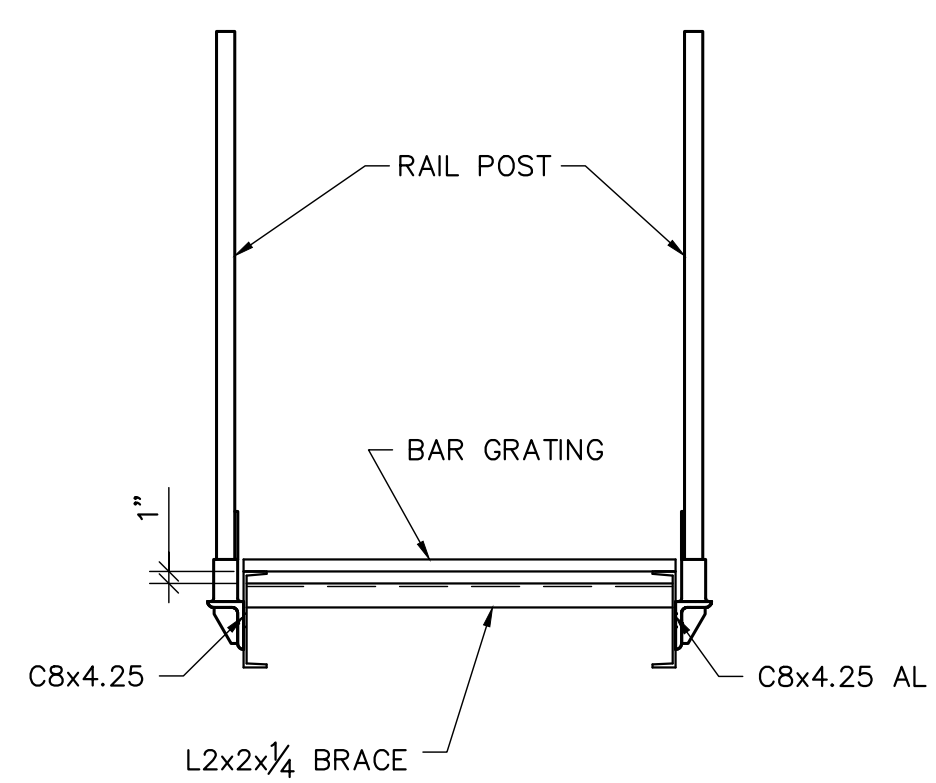
DETAIL-BRACKET MOUNT 1
NOT TO SCALE
S002 S002



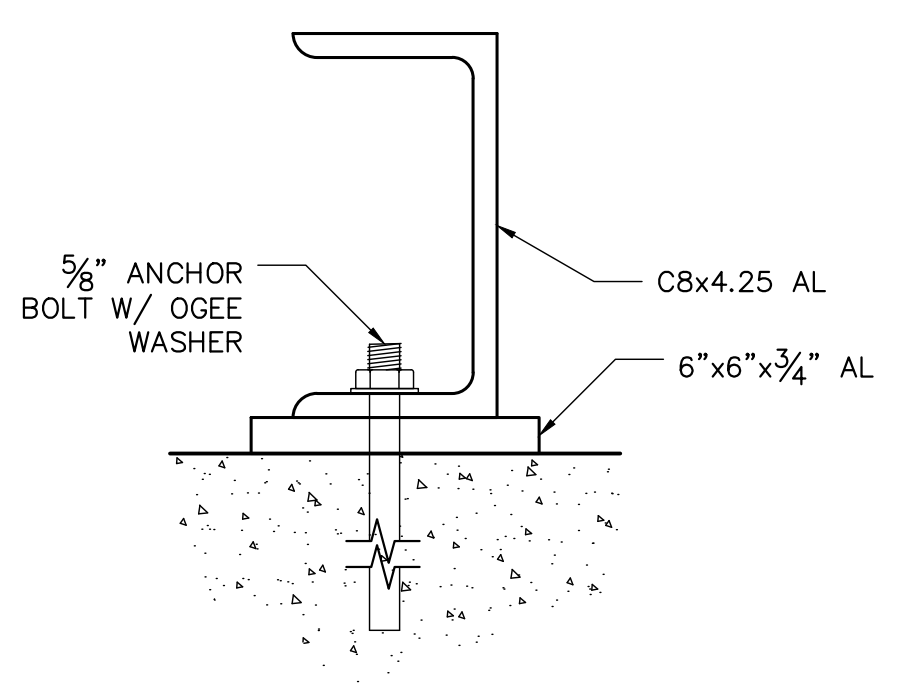
SECTION D
NOT TO SCALE
S002 S002

NOTES

- FURNISH FABRICATED ALUMINUM CATWALK DESIGNED FOR 60 PSF LIVE LOAD.
- ALL STRUCTURAL FRAMING MEMBERS AND MISCELLANEOUS PLATES AND BARS SHALL BE MADE OF ALUMINUM ALLOY 6061 T6.
- CATWALK FLOOR SHALL BE ALUMINUM RECTANGULAR BAR GRATING AS SHOWN. GRATING PANELS SHALL BE REMOVABLE BY USE OF FASTENERS. SPACE THE FASTENERS AS REQUIRED TO OVERCOME IRREGULARITIES AND MAINTAIN GRATING CONTACT WITH THE FRAME.
- ALUMINUM IN CONTACT WITH CONCRETE SHALL RECEIVE A BITUMINOUS COATING.
- ALL BOLTS SHALL BE TYPE 316 STAINLESS STEEL.
- RAILING PIPE AND ASSOCIATED PLATES AND BARS SHALL ALUMINUM ALLOY 6061 T6. RAILING POSTS SHALL BE 1 1/2" DIAMETER SCHEDULE 80 PIPE. RAILS SHALL BE 1 1/2" DIAMETER SCHEDULE 40 PIPE.
- ALL WELDING SHALL CONFORM TO AWS D1.2. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN THE FACTORY.



SECTION B
SCALE: 3/4" = 1'-0"
S001 S002



DETAIL 4
NOT TO SCALE
S002 S002

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CORRECTED FINAL (RTA)

PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)

CATWALK DETAILS

ENGINEER OF RECORD:
DONALD J. NUELLE, P.E.
FLORIDA P.E. LICENSE NO: 52046

PROJECT ID NO.
100378
DRAWING NUMBER
S002
SHEET
15 OF 16

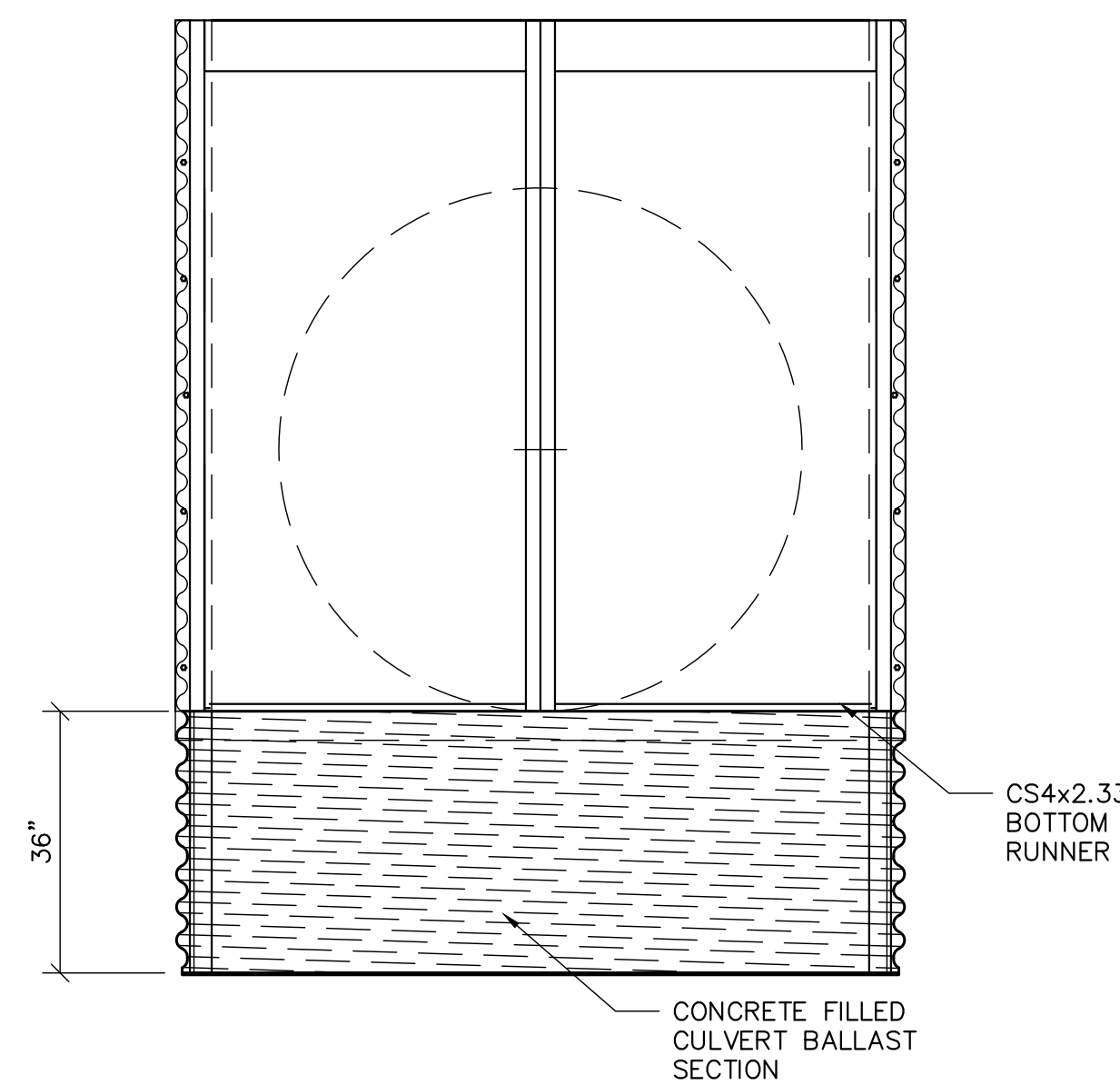
ENGINEER: D. NUELLE
DRAWN: R. TODD
CHECKED: N. PANDYA
DATE: JULY 2020
SCALE: AS SHOWN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
ENGINEERING & CONSTRUCTION BUREAU
PHONE: 561-686-8800
3301 GUN CLUB ROAD
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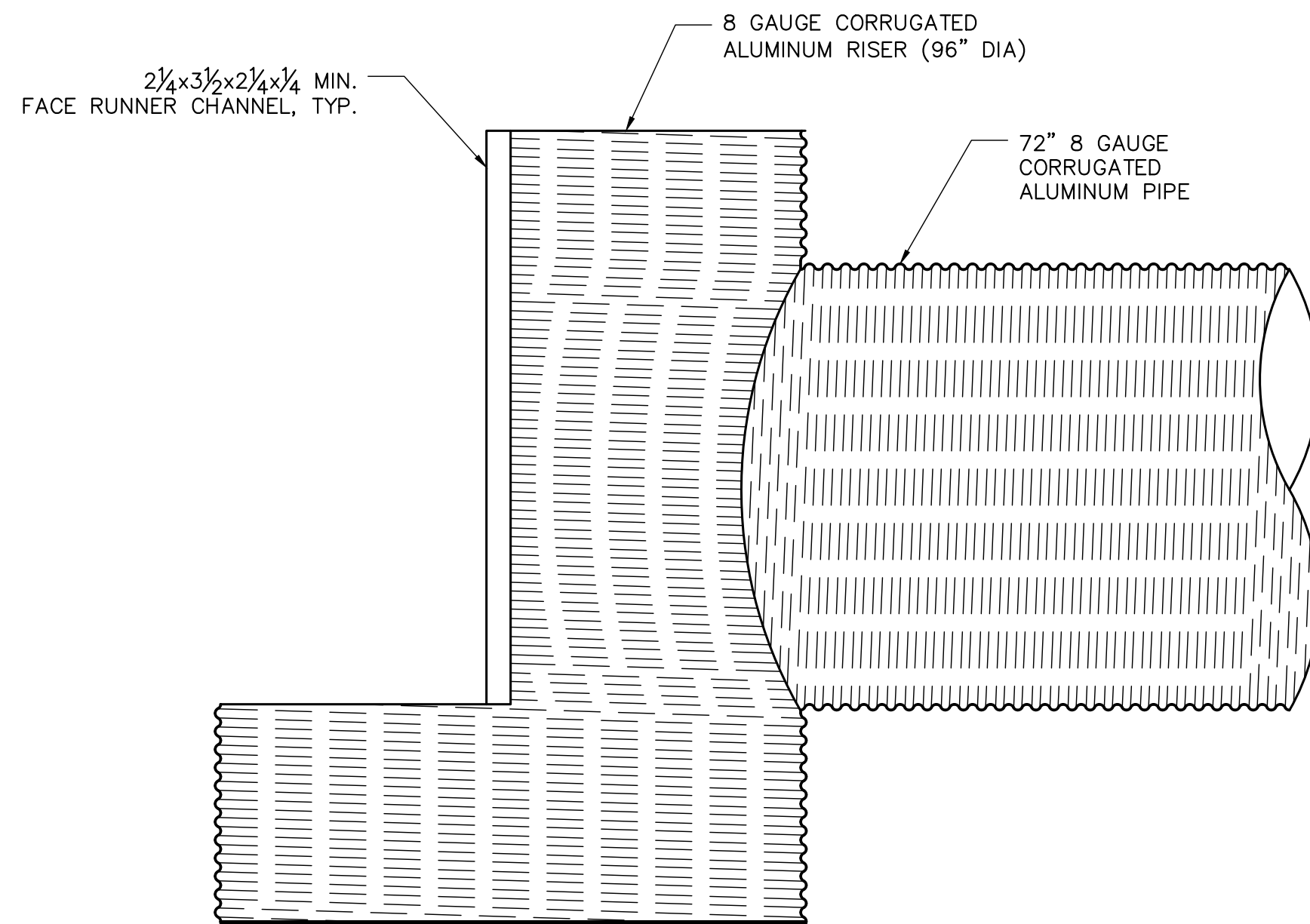
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E
C010 | C010



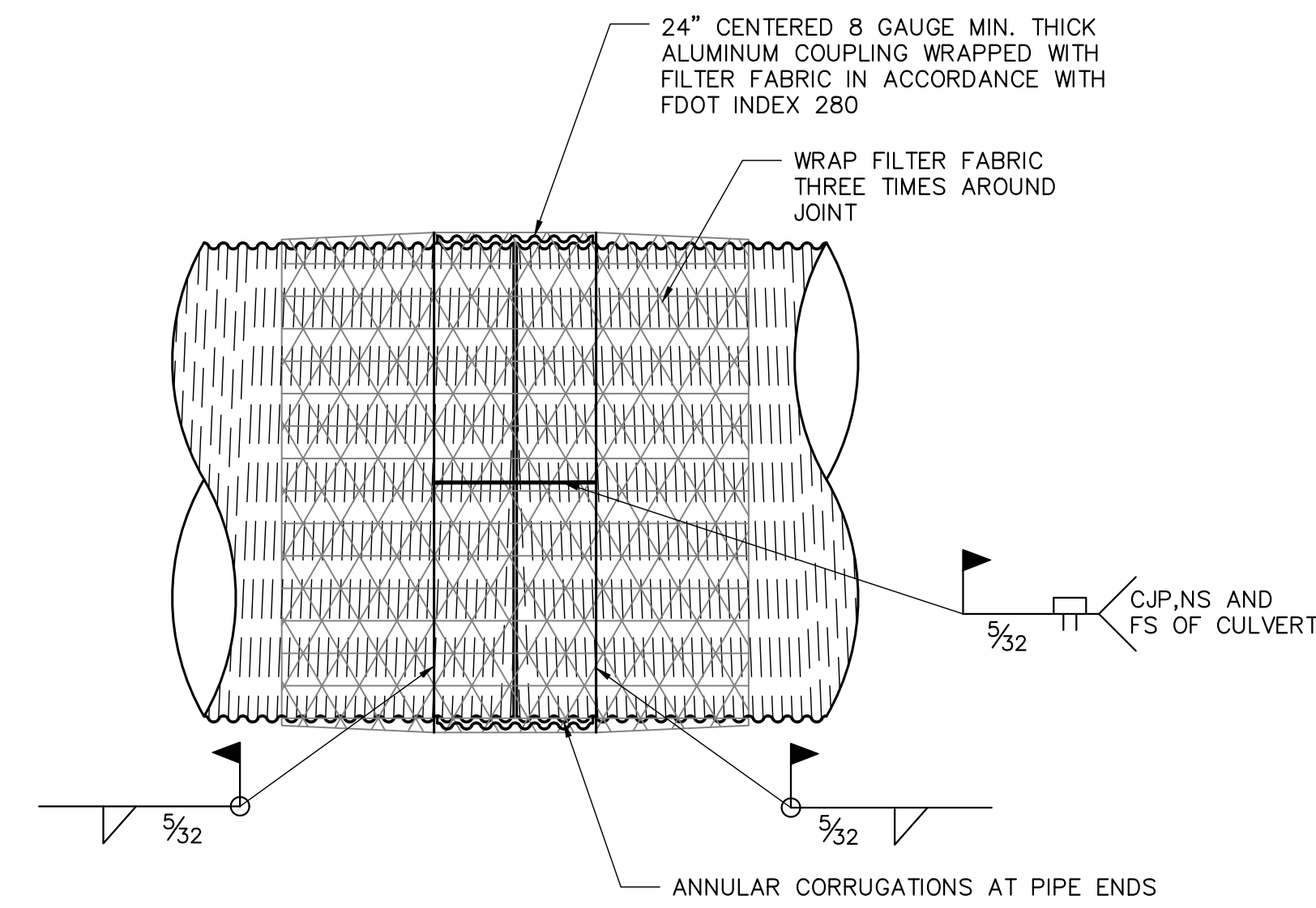
**FLASHBOARD RISER FRAME
W/ CONC BALLAST**
NOT TO SCALE

NOTES:
1. CULVERT BALLAST TO BE FILLED WITH NORMAL WEIGHT CONCRETE. BALLAST CAN TO BE COATED W/ BITUMEN PRIOR TO CONCRETE PLACEMENT.



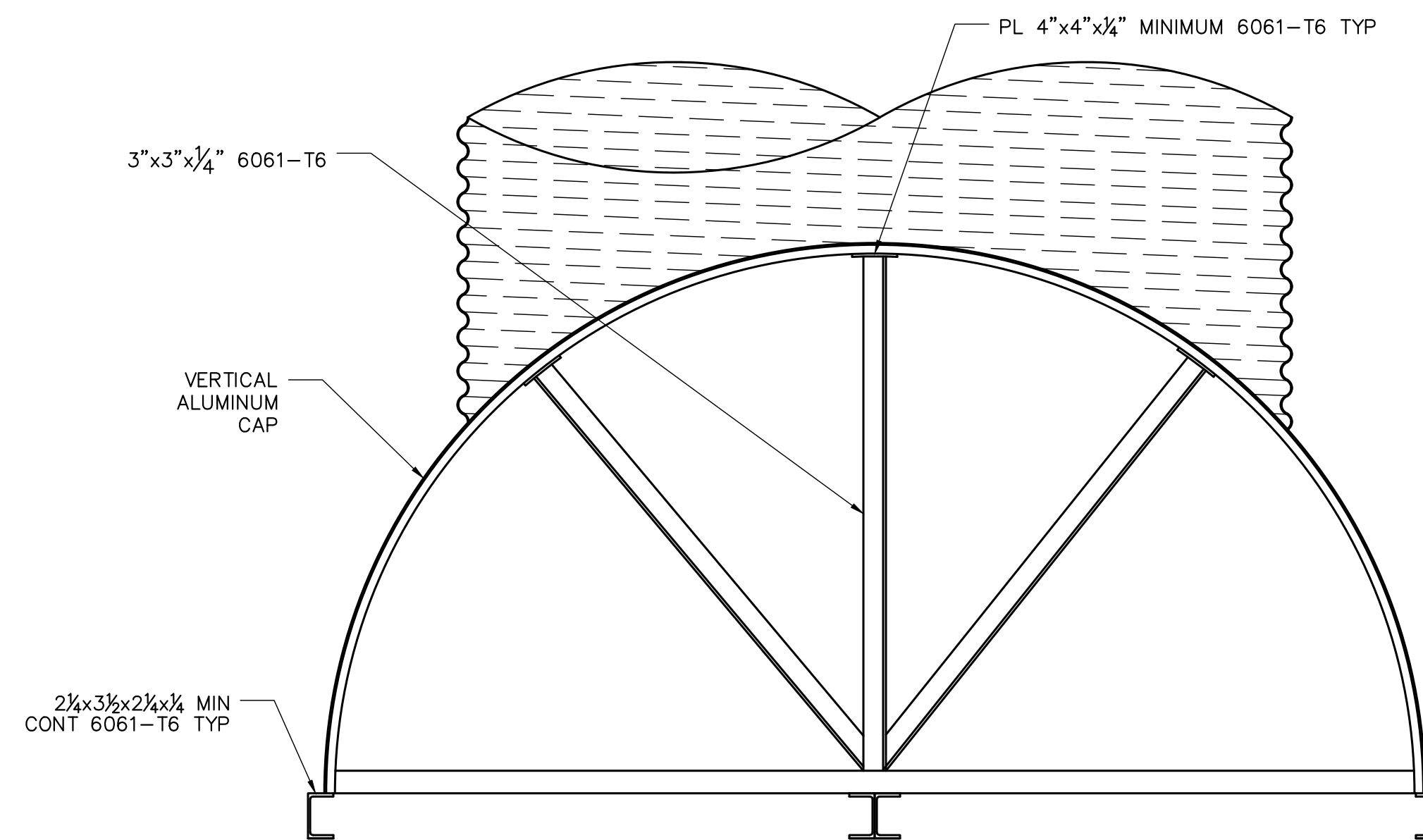
RISER SIDE VIEW
NOT TO SCALE

NOTES:
1. VIEWS ON THIS SHEET ARE FOR GRAPHIC PURPOSES ONLY. MANUFACTURER SHALL PROVIDE ALL SPECIFICATIONS.
2. ON ALL RISERS, APPLY BITUMEN ON THE INSIDE OF THE PIPE IN THE CULVERT BALLAST SECTION.
3. WELDS SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY AWS D1.2.
4. CONTRACTOR TO PROVIDE (12) 3"x6"x4' FLASHBOARDS W/ (2) 1/2" PEGS @ 1/3 POINTS IN THE MIDDLE HEIGHT OF THE BOARD FOR HANDLING.



CULVERT CONNECTION
NOT TO SCALE

NOTES:
1. WELDS SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY AWS D1.2.



RISER TOP VIEW
SCALE: 1"=1'-0"

E
C010 | C010

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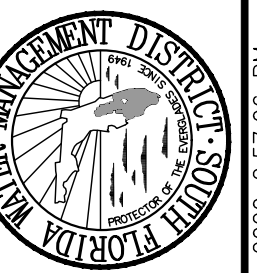
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100378

DRAWING NUMBER
9003

SHEET
16 OF **16**

CORRECTED FINAL (RTA)

PC REPLACEMENT
OKEECHOBEE FIELD STATION AREA (C41A-PC13N)
CULVERT AND RISER DETAILS



SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ECOSYSTEM RESTORATION AND CAPITAL PROJECTS DIVISION
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ENGINEER: D. NUELLE
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DATE: JULY 2020
SCALE: AS SHOWN

REVISION DESCRIPTION	DATE	DRAWN	REF#