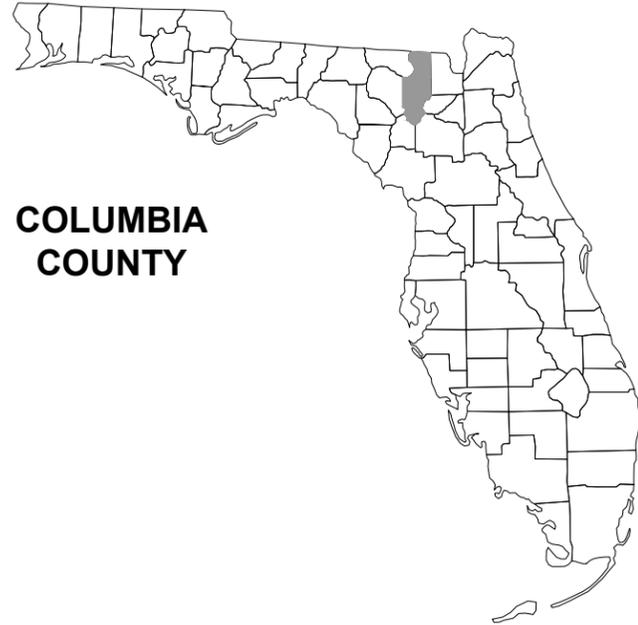


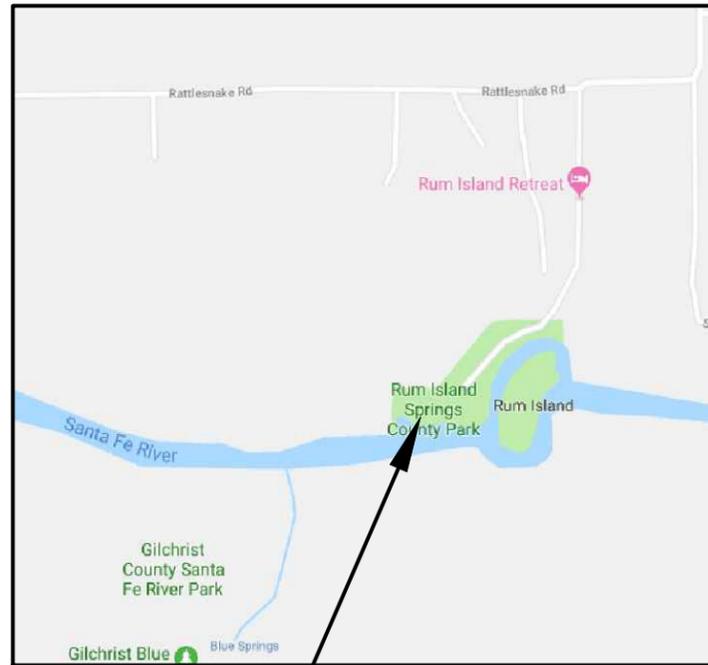
RUM ISLAND SPRINGS PARK IMPROVEMENTS

COLUMBIA COUNTY, FL

SEC 35, TOWNSHIP 7S, RANGE 16E



COLUMBIA COUNTY



PROJECT LOCATION

PLANS PREPARED FOR:

COLUMBIA COUNTY BOCC
 135 NE HERNANDO AVENUE, SUITE 203
 LAKE CITY, FLORIDA
 (386) 758-1005

SHEET INDEX

CIVIL

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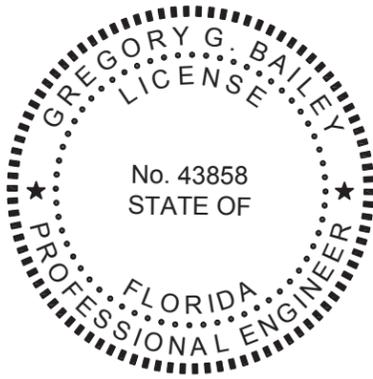


North Florida Professional Services, Inc.
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 Fax. 386-752-4674
 P.O. BOX 180998
 Tallahassee, FL 32318
 Ph. 877-335-1525
 Eng. Lic. 29011

COVER SHEET

REVISIONS:

JOB NUMBER: L180112CCB	DESIGNED BY: DS	DRAFTED BY: KB	CHECKED BY: GB
DATE: 01/12/2018	ENGINEER OF RECORD: PREGORJE BAILEY	P.E. NO.: 46886	
SHEET NO. 1			



THIS DOCUMENT HAS BEEN DIGITALLY
 SIGNED AND SEALED BY: GREGORY G. BAILEY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
 NOT CONSIDERED SIGNED AND SEALED.
 THE SIGNATURE MUST BE VERIFIED
 IN THE ELECTRONIC DOCUMENTS.

NORTH FLORIDA PROFESSIONAL SERVICES INC.
 P.O. BOX 3823
 LAKE CITY, FL 32056
 CERTIFICATE OF AUTHORIZATION: 29011
 GREGORY G. BAILEY, P.E. NO. 43858

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS
 IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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SIGNATURE SHEET
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL

JOB NUMBER: L180112CCB	DESIGNED BY: DS	DRAFTED BY: KB	CHECKED BY: GB
DATE: 01/12/2018	ENGINEER OF RECORD: GREGORY G. BAILEY P.E. NO.: 43858		
SHEET NO. 2			

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO ENSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE ISSUED SUWANNEE RIVER WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT, AND FLORIDA DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM PERMIT.

2. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.

3. BOUNDARY INFORMATION SHOWN, WAS OBTAINED FROM A BOUNDARY SURVEY PREPARED BY DONALD F. LEE & ASSOCIATES, FLORIDA CERTIFICATE NO. 7042.

4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.

5. THE SITE IS LOCATED IN SECTION 35, TOWNSHIP 7 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

6. THE CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED, THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.

7. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.

8. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.

9. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL REQUIRED UTILITY CONNECTIONS PRIOR TO BIDDING. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE CONNECTION TO THE EXISTING UTILITIES. THIS INCLUDES BUT IS NOT LIMITED TO MANHOLE CORING, WET TAPS, PAVEMENT REPAIRS AND DIRECTIONAL BORING.

10. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.

11. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THE F.D.O.T. DESIGN STANDARDS (CURRENT EDITION) UNLESS OTHERWISE NOTED.

12. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE UNSUITABLE MATERIAL TO A DEPTH OF 24" BELOW FINISHED GRADE WITHIN THE CONSTRUCTION LIMITS.

13. THE CONTRACTOR SHALL SUBMIT A NOTICE OF CONSTRUCTION COMMENCEMENT TO THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

14. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS IN ADVANCE OF THE PRESSURE AND LEAKAGE TESTS.

15. NO WORK SHALL BE PERFORMED ON SATURDAY OR SUNDAY WITHOUT WRITTEN NOTIFICATION TO THE COUNTY ENGINEER AND SUWANNEE RIVER WATER MANAGEMENT DISTRICT ENGINEER.

16. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE STORMWATER MANAGEMENT SYSTEMS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. A COPY OF THE AS-BUILT SURVEY (IN PAPER AND DIGITAL AUTOCAD FORMAT) MUST BE SUBMITTED TO THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT AND THE ENGINEER.

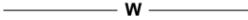
17. THE CONTRACTOR SHALL SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT FEES.

18. IF DURING CONSTRUCTION OR OPERATION OF THE STORM WATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.

SYMBOL LEGEND:

- 1. r = PROPERTY LINE
- 2. e = CENTER LINE
- 3.  = PROPOSED AIR RELEASE VALVE

LINE TYPE LEGEND:

-  = PROPOSED WATER LINE
-  = PROPOSED SEWER LINE

File Location: X:\2018\180112CCB\H. CADD\Roadway\cCCBdsgrn01 13 GENERAL NOTES & LEGEND
Date Created: May 2, 2019 Date Last Saved: May 6, 2019 Date Plotted: May 6, 2019
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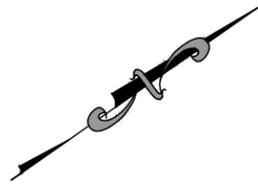


GENERAL NOTES & LEGEND
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL

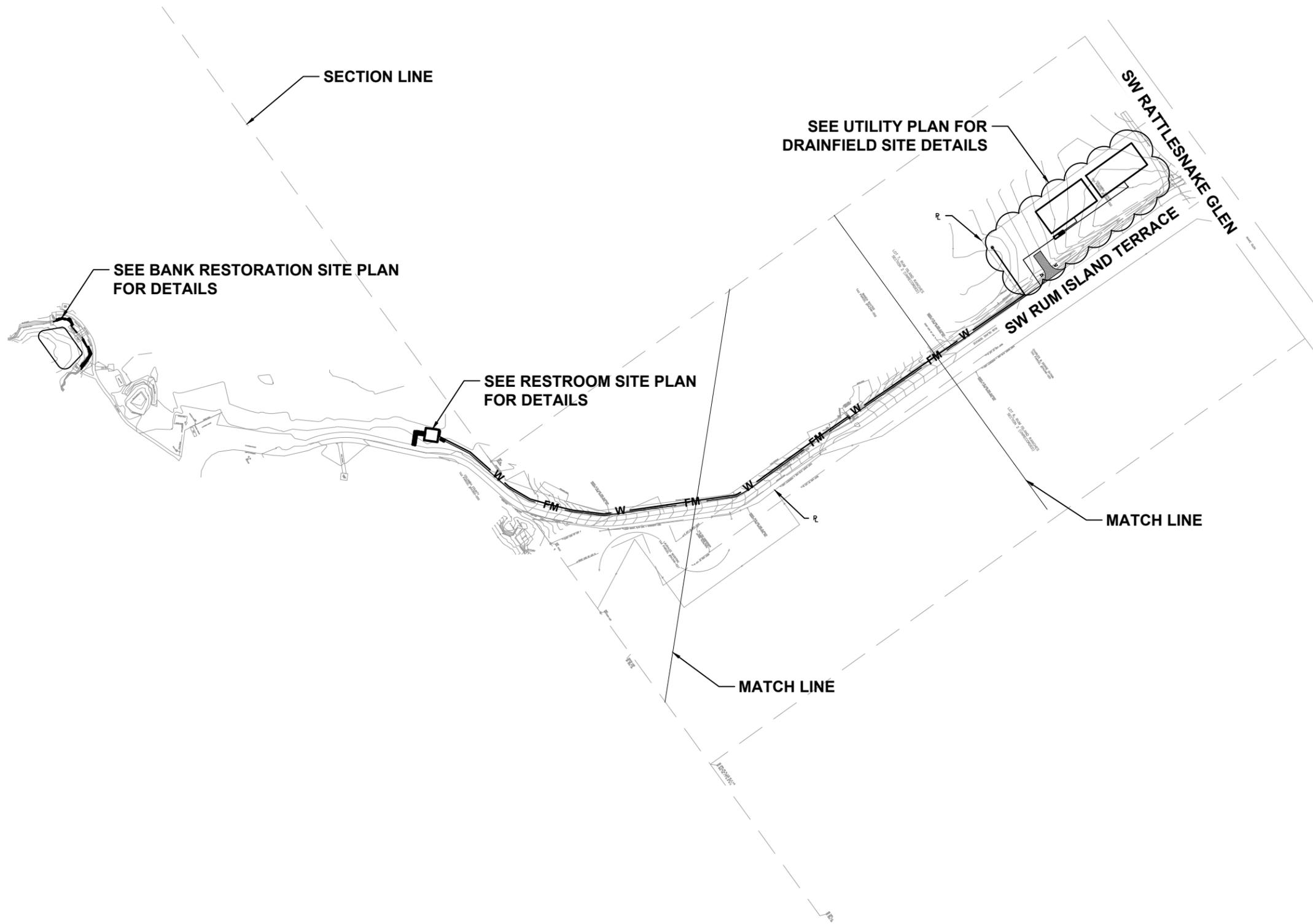
REVISIONS:

JOB NUMBER: L180112CCB	DESIGNED BY: DS	DRAFTED BY: KB	CHECKED BY: GB
DATE: 01/12/2018	ENGINEER OF RECORD: EMERSON C. BAILEY	P.E. NO.: 43868	
SHEET NO. 3			

File Location: X:\2018\180112CCBH.CADD\Roadway\CCBdsign014 OVERALL SITE PLAN
 Date Created: May 2, 2019 Date Last Saved: May 2, 2019 Date Plotted: May 2, 2019
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GRAPHIC SCALE



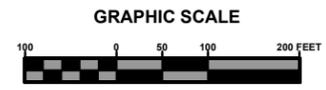
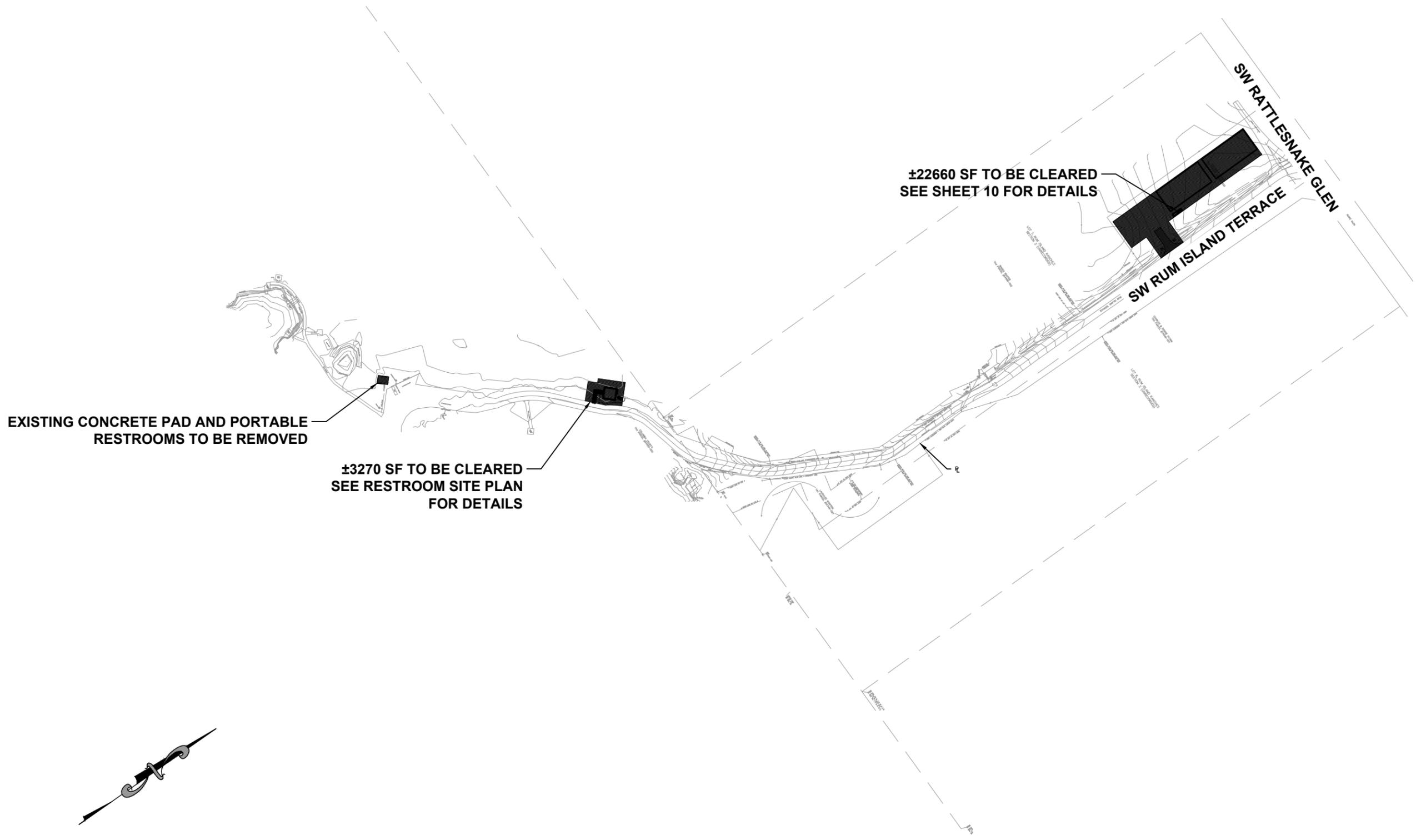
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DATE: 01/12/2018	ENGINEER OF RECORD: GARY W. BAILEY P.E. NO.: 43868		
SHEET NO. 4			

REVISIONS:

OVERALL SITE PLAN
RUM ISLAND SPRINGS PARK IMPROVEMENTS
 COLUMBIA COUNTY, FL.



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DATE: 01/12/2018	ENGINEER OF RECORD: GUY W. BAILEY P.E. NO.: 46868		
SHEET NO. 5			

REVISIONS:

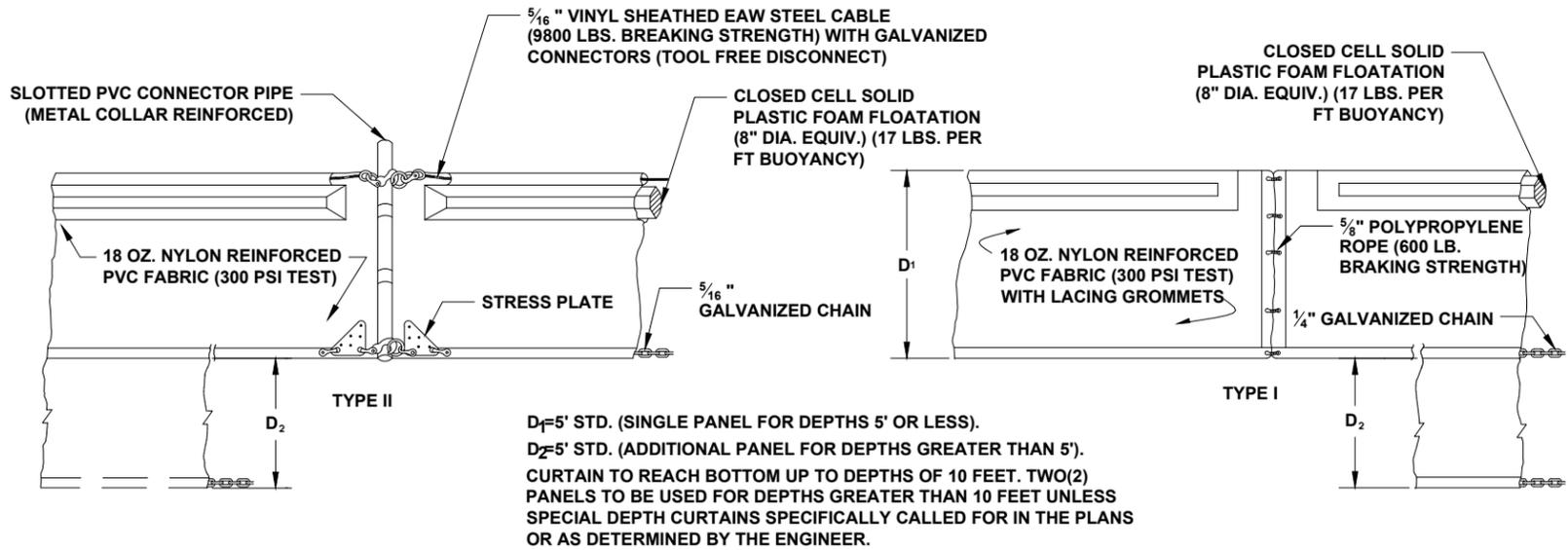
DEMOLITION PLAN
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL.



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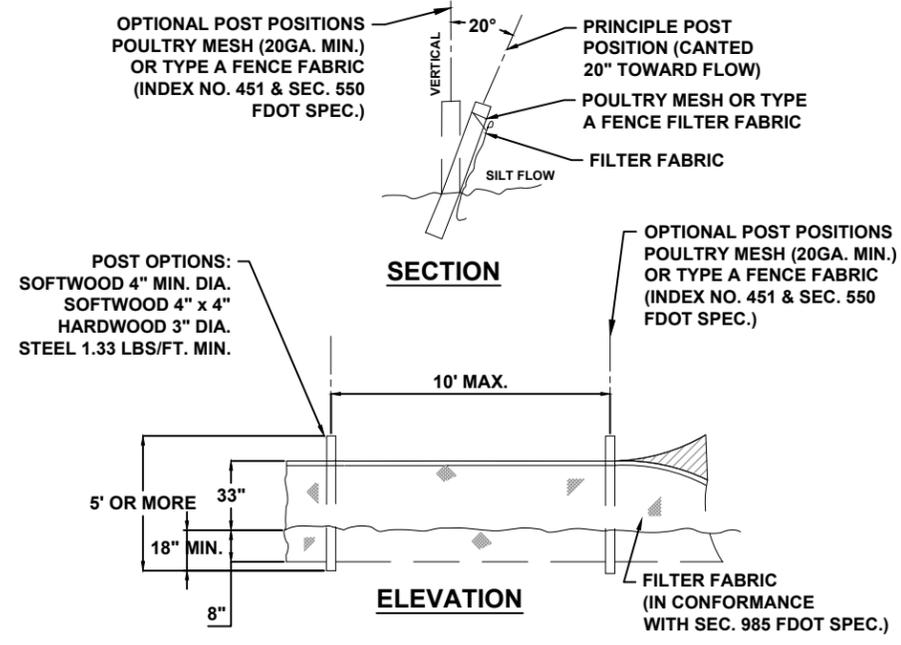
EROSION CONTROL NOTES

- THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
- THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. IF THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMP'S FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
- THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
- SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACED AS NECESSARY.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
- ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
- SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
- CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
- DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
- ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
- A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
- ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF SYNTHETIC BALES OR SODDING.
- ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
- ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARP.
- EXCESS DIRT SHALL BE REMOVED DAILY.
- THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.
- QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.
- SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.



NOTICE: COMPONENTS OF TYPES I AND II 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. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

1 FLOATING TURBIDITY BARRIER
6 SCALE: N.T.S.



2 TYPE IV SILT FENCE
6 SCALE: N.T.S.

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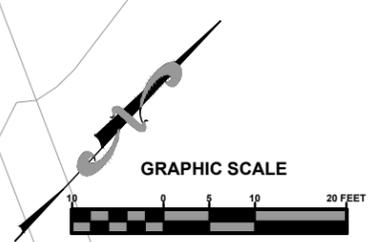
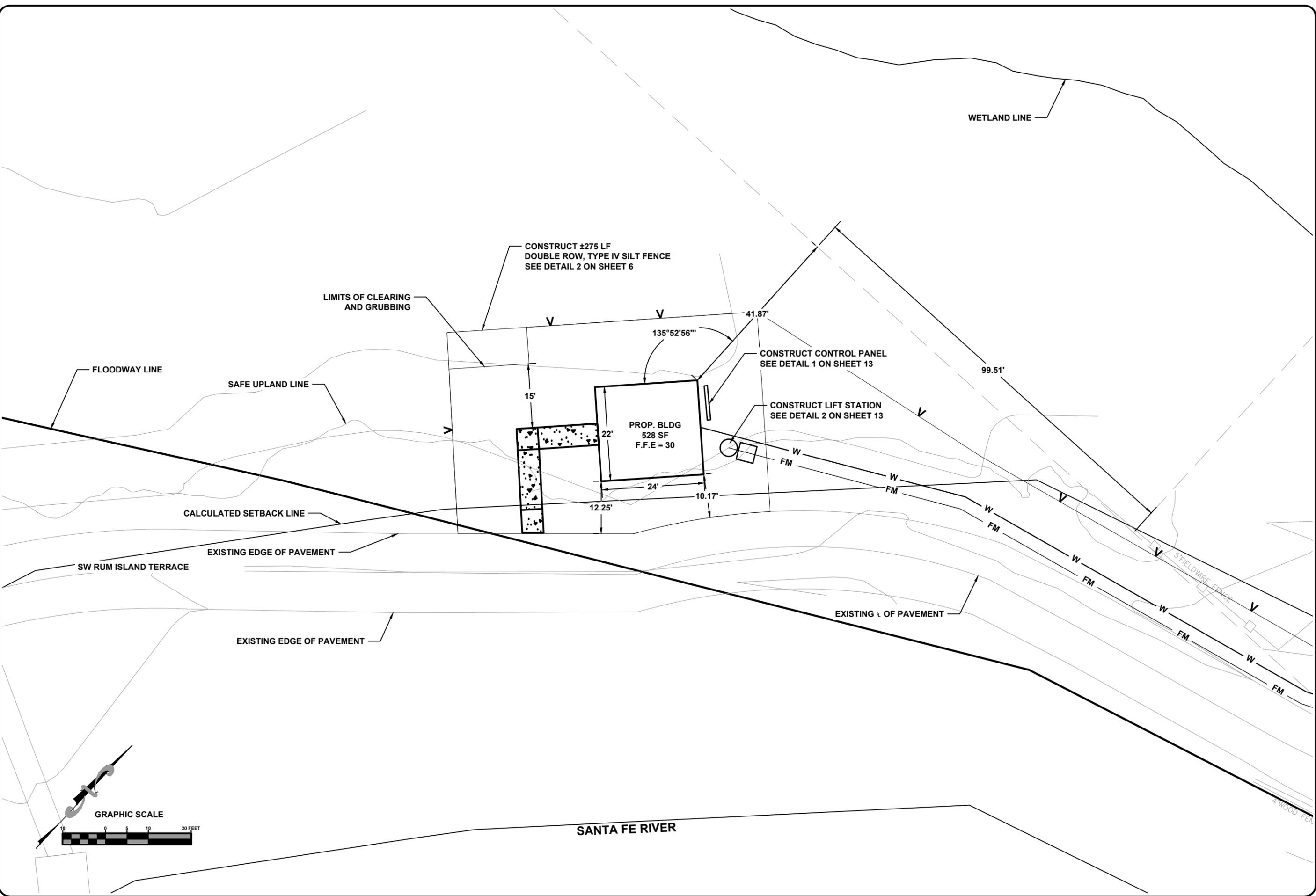


EROSION CONTROL NOTES & DETAILS
 RUM ISLAND SPRINGS PARK IMPROVEMENTS
 COLUMBIA COUNTY, FL

REVISIONS:
 JOB NUMBER: L180112CCB
 DESIGNED BY: [] DRAFTED BY: [] CHECKED BY: GB
 DS KB
 ENGINEER OF RECORD: []
 P.E. NO.: 49868
 DATE: 01/12/2018
 SHEET NO. 6

File Location: X:\2018\180112CCB\H. CADD\Roadway\cCCBdsign016 EROSION CONTROL NOTES & DETAILS
 Date Created: May 2, 2019
 Date Last Saved: May 2, 2019
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File Location: X:\2018\180112CCBH.CADD\Roadway\CCBdsign018 RESTROOM SITE PLAN
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RESTROOM SITE PLAN
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL

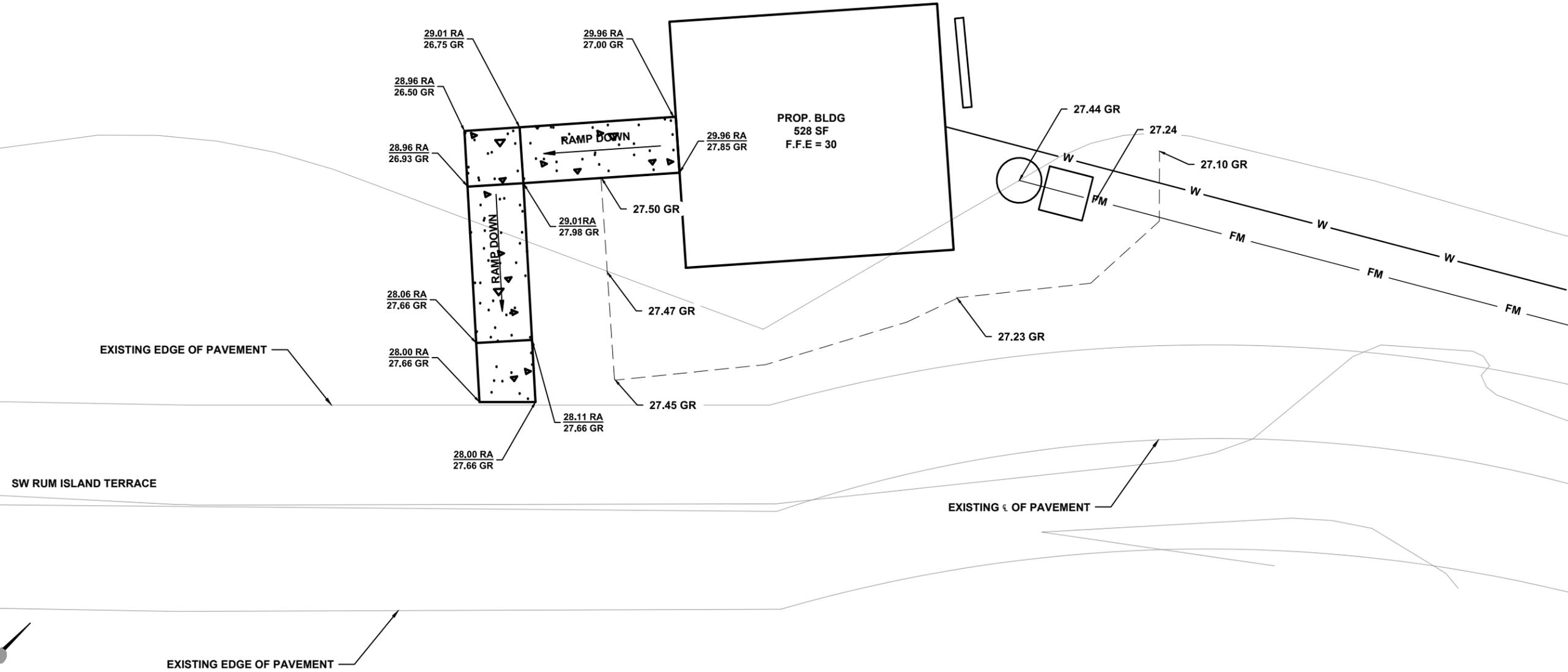
REVISIONS:

DESIGNED BY:	DS
DRAFTED BY:	KB
CHECKED BY:	GB
ENGINEER OF RECORD:	ENGINEER OF RECORD:
P.E. NO.: 49868	P.E. NO.: 49868

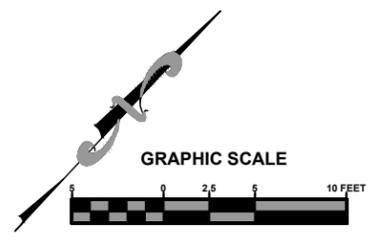
JOB NUMBER: L180112CCB
 DATE: 01/12/2018
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NOTE:
CONTRACTOR SHALL CONSTRUCT TO
ALLOW FOR POSITIVE DRAINAGE FROM BUILDING.

LEGEND:
RA- TOP OF RAMP
GR- PROPOSED GROUND



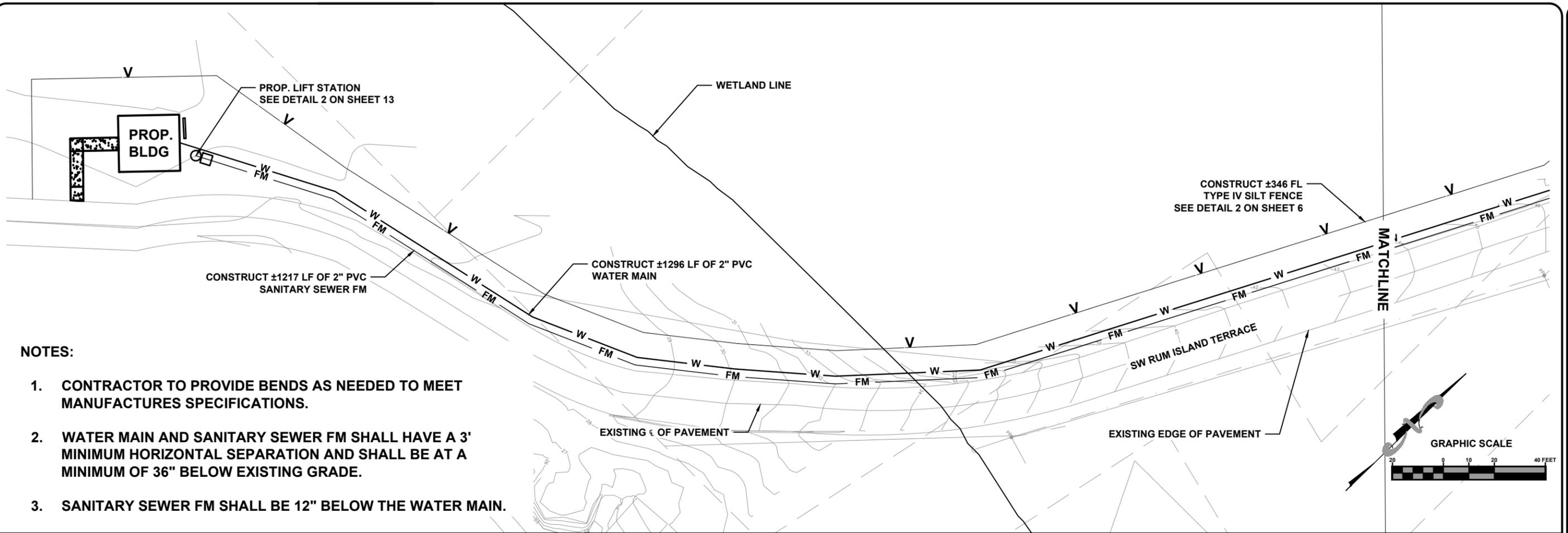
File Location: X:\2018\180112CCBH.CADD\Roadway\CCBdsgrn019 GRADING PLAN
 Date Created: May 2, 2019 Date Last Saved: May 2, 2019 Date Plotted: May 2, 2019
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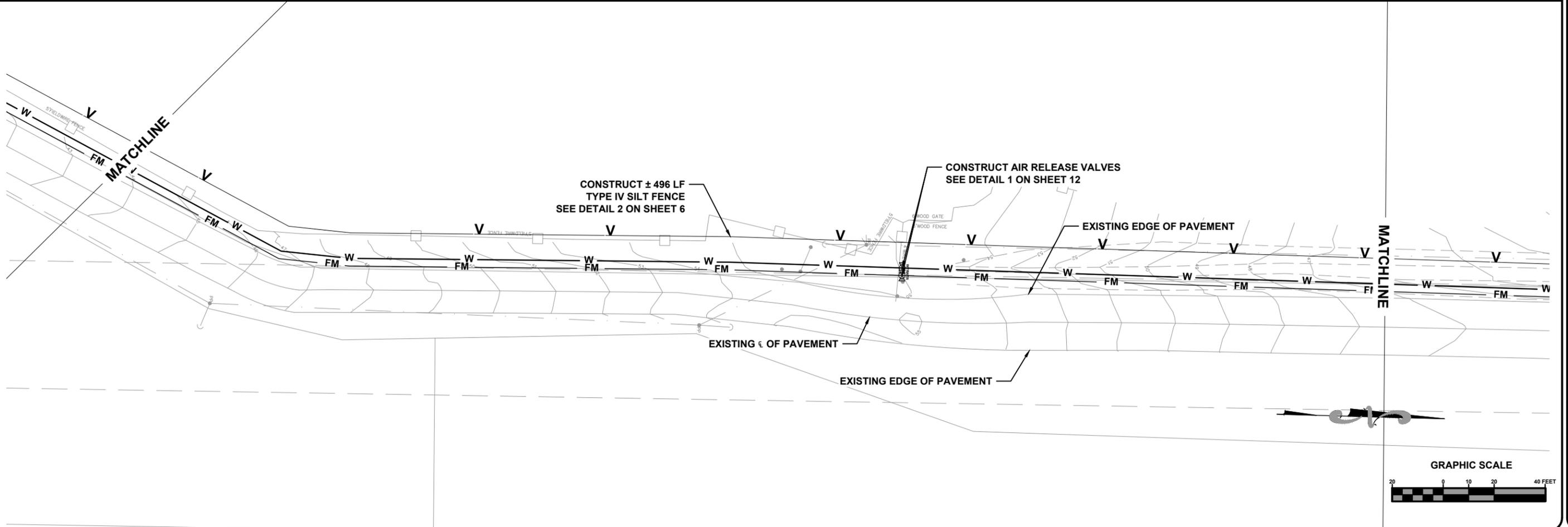
GRADING PLAN
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL

JOB NUMBER: L180112CCB	DESIGNED BY: DS	DRAFTED BY: KB	CHECKED BY: GB
DATE: 01/12/2018	ENGINEER OF RECORD: ENGINEER OF RECORD: DAVID W. BAILEY	P.E. NO.: 49868	
SHEET NO. 9			



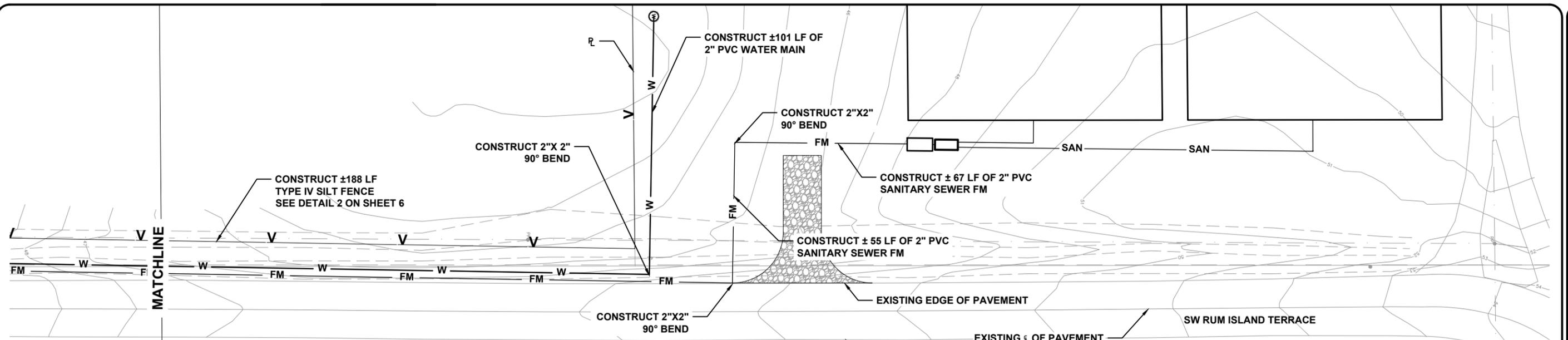
NOTES:

1. CONTRACTOR TO PROVIDE BENDS AS NEEDED TO MEET MANUFACTURERS SPECIFICATIONS.
2. WATER MAIN AND SANITARY SEWER FM SHALL HAVE A 3' MINIMUM HORIZONTAL SEPARATION AND SHALL BE AT A MINIMUM OF 36" BELOW EXISTING GRADE.
3. SANITARY SEWER FM SHALL BE 12" BELOW THE WATER MAIN.



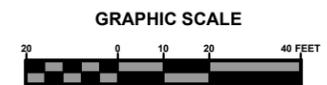
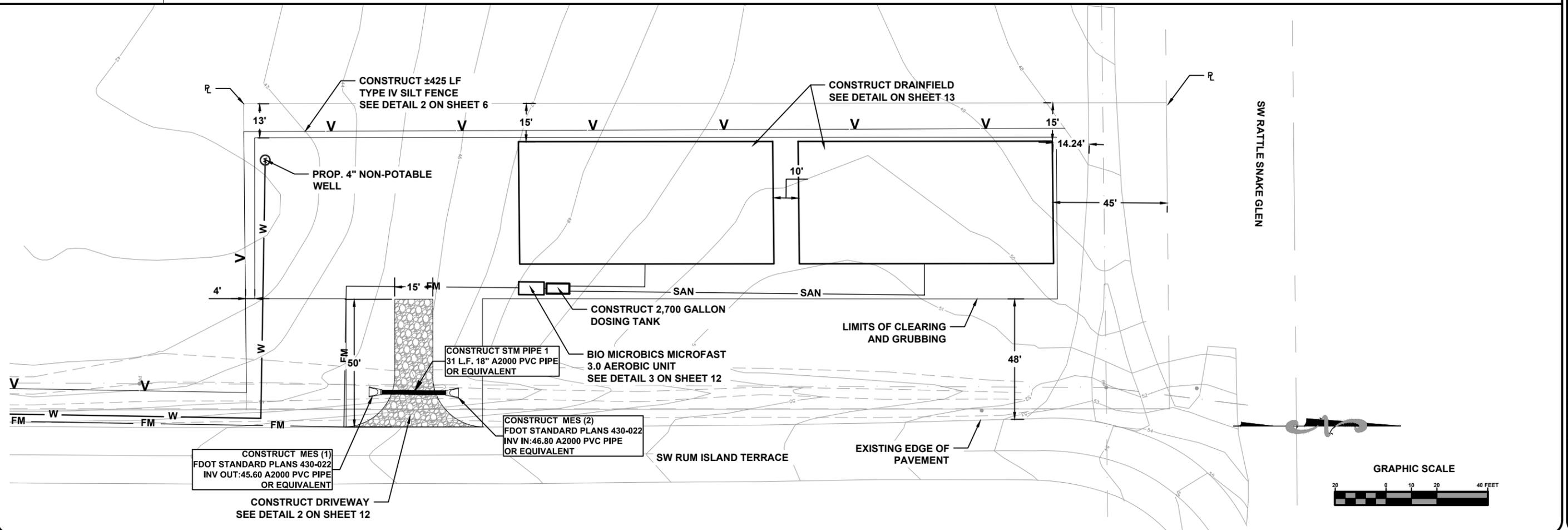
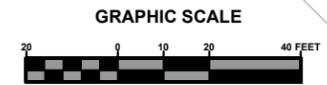
UTILITY PLAN SHEET
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL

File Location: X:\2018\180112CCBH.CADD\Roadway\CCBdsgrn01\11 UTILITY PLAN SHEET
 Date Created: May 2, 2019 Date Last Saved: May 2, 2019 Date Plotted: May 2, 2019
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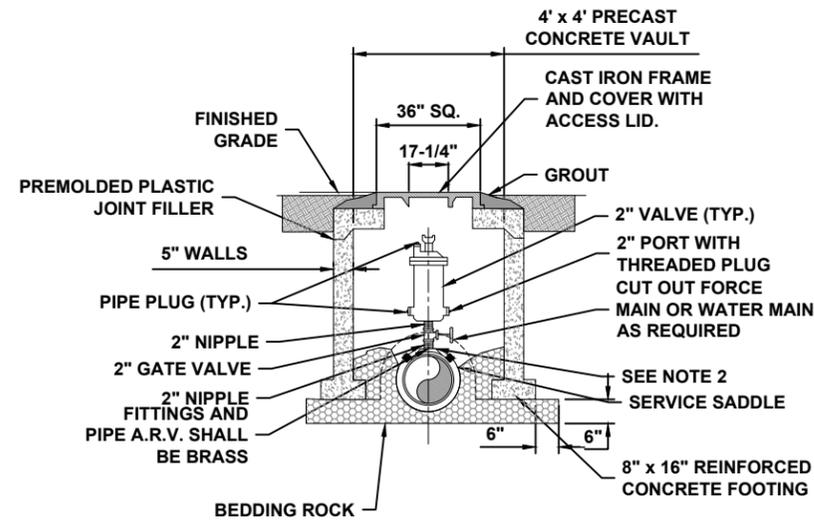


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UTILITY PLAN SHEET
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COLUMBIA COUNTY, FL

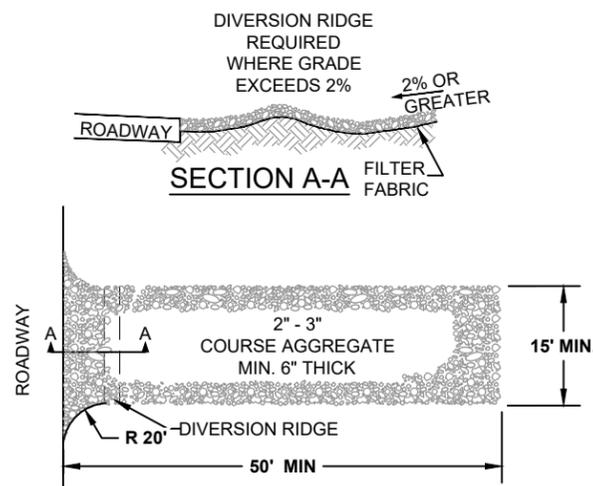
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 DESIGNED BY: DRAFTED BY: CHECKED BY: GB
 DS KB
 ENGINEER OF RECORD:
 P.E. NO.: 43888
 DATE: 01/12/2018
 SHEET NO. 11



NOTES:

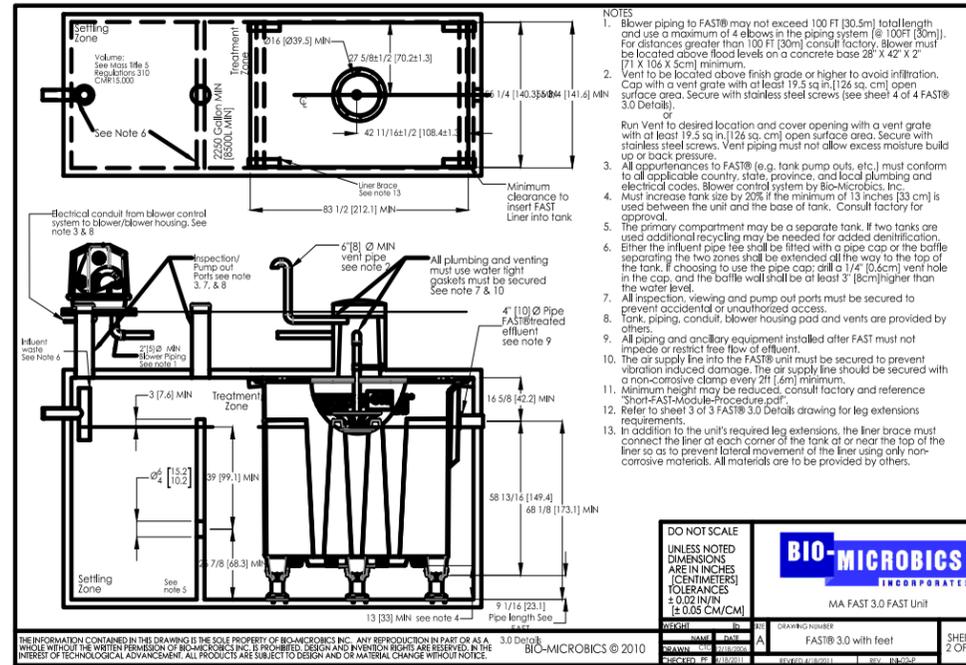
1. ABOVE DETAIL IS BASED ON 2" COMBINATION AIR/VACUUM RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES.
2. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.

1 AIR AND/OR VACCUM RELEASE VALVE
12 SCALE: N.T.S.



PLAN

2 DRIVEWAY TYPICAL
12 SCALE: N.T.S.

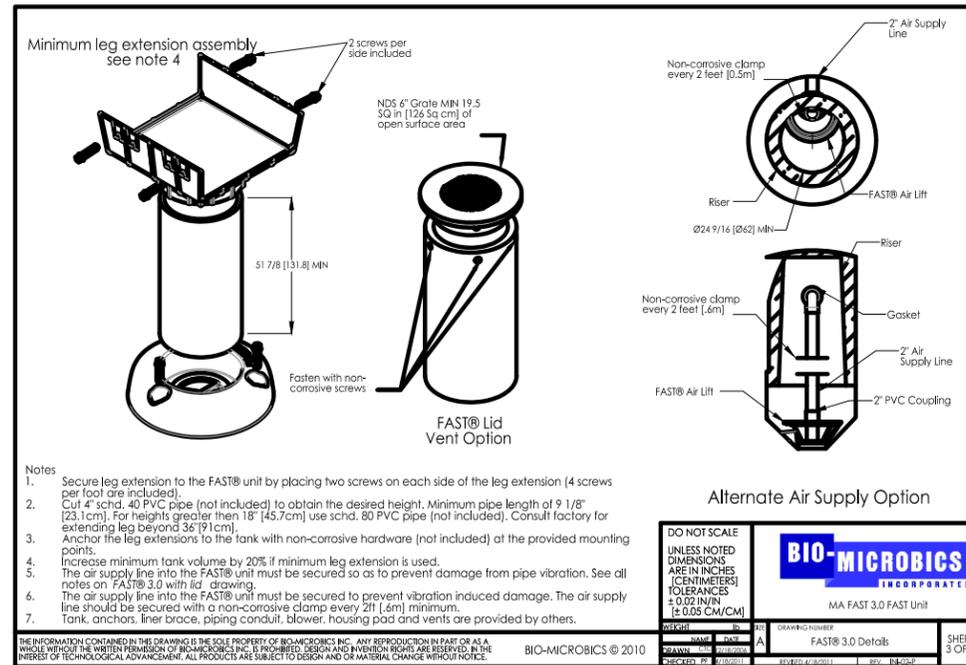


- NOTES:
1. Blower piping to FAST® may not exceed 100 FT (30.5m) total length and use a maximum of 4 elbows in the piping system (6" 100FT [30m]). For distances greater than 100 FT (30m) consult factory. Blower must be located above flood levels on a concrete base 28" X 42" X 2" (71 X 106 X 5cm) minimum.
 2. Unit to be located above finish grade or higher to avoid infiltration. Cap with a vent grate with at least 19.5 sq in. (126 sq. cm) open surface area. Secure with stainless steel screws (see sheet 4 of FAST® 3.0 Details).
 3. Run Vent to desired location and cover opening with a vent grate with at least 19.5 sq in. (126 sq. cm) open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.
 4. All opportunities to FAST® (e.g. tank pump outs, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Blower control system by Bio-Microbics, Inc.
 5. Must increase tank size by 20% if the minimum of 13 inches (33 cm) is used between the unit and the base of tank. Consult factory for approval.
 6. The primary compartment may be a separate tank. If two tanks are used additional recycling may be needed for added denitrification.
 7. Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended all the way to the top of the tank. If choosing to use the pipe cap, drill a 1/4" (0.6cm) vent hole in the cap, and the baffle wall shall be at least 3" (8cm) higher than the water level.
 8. All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
 9. Tank piping, conduit, blower housing pad and vents are provided by others.
 10. All piping and ancillary equipment installed after FAST must not impede or restrict free flow of effluent.
 11. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2ft (0.6m) minimum.
 12. Minimum height may be reduced, consult factory and reference "Short-FAST-Module-Procedure.pdf".
 13. Refer to sheet 3 of 3 FAST® 3.0 Details drawing for leg extensions requirements.
 14. In addition to the unit's required leg extensions, the liner brace must connect the liner at each corner of the tank or near the top of the liner so as to prevent lateral movement of the liner using only non-corrosive materials. All materials are to be provided by others.

DO NOT SCALE
 UNLESS NOTED
 DIMENSIONS
 ARE IN INCHES
 (CENTIMETERS)
 TOLERANCES
 ± 0.02 IN (IN)
 (± 0.05 CM/CM)

BIO-MICROBICS
 INCORPORATED
 MA FAST 3.0 FAST Unit

FAST® 3.0 with feet
 SHEET 2 OF 3



Notes

1. Secure leg extension to the FAST® unit by placing two screws on each side of the leg extension (4 screws per foot are included).
2. Cut 4" schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 9 1/8" (23.1cm). For heights greater than 18" (45.7cm) use schd. 80 PVC pipe (not included). Consult factory for extending leg beyond 36" (91.4cm).
3. Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
4. Increase minimum tank volume by 20% if minimum leg extension is used.
5. The air supply line into the FAST® unit must be secured so as to prevent damage from pipe vibration. See all notes on FAST® 3.0 with lid drawing.
6. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2ft (0.6m) minimum.
7. Tank anchors, liner brace, piping conduit, blower, housing pad and vents are provided by others.

DO NOT SCALE
 UNLESS NOTED
 DIMENSIONS
 ARE IN INCHES
 (CENTIMETERS)
 TOLERANCES
 ± 0.02 IN (IN)
 (± 0.05 CM/CM)

BIO-MICROBICS
 INCORPORATED
 MA FAST 3.0 FAST Unit

FAST® 3.0 Details
 SHEET 3 OF 3

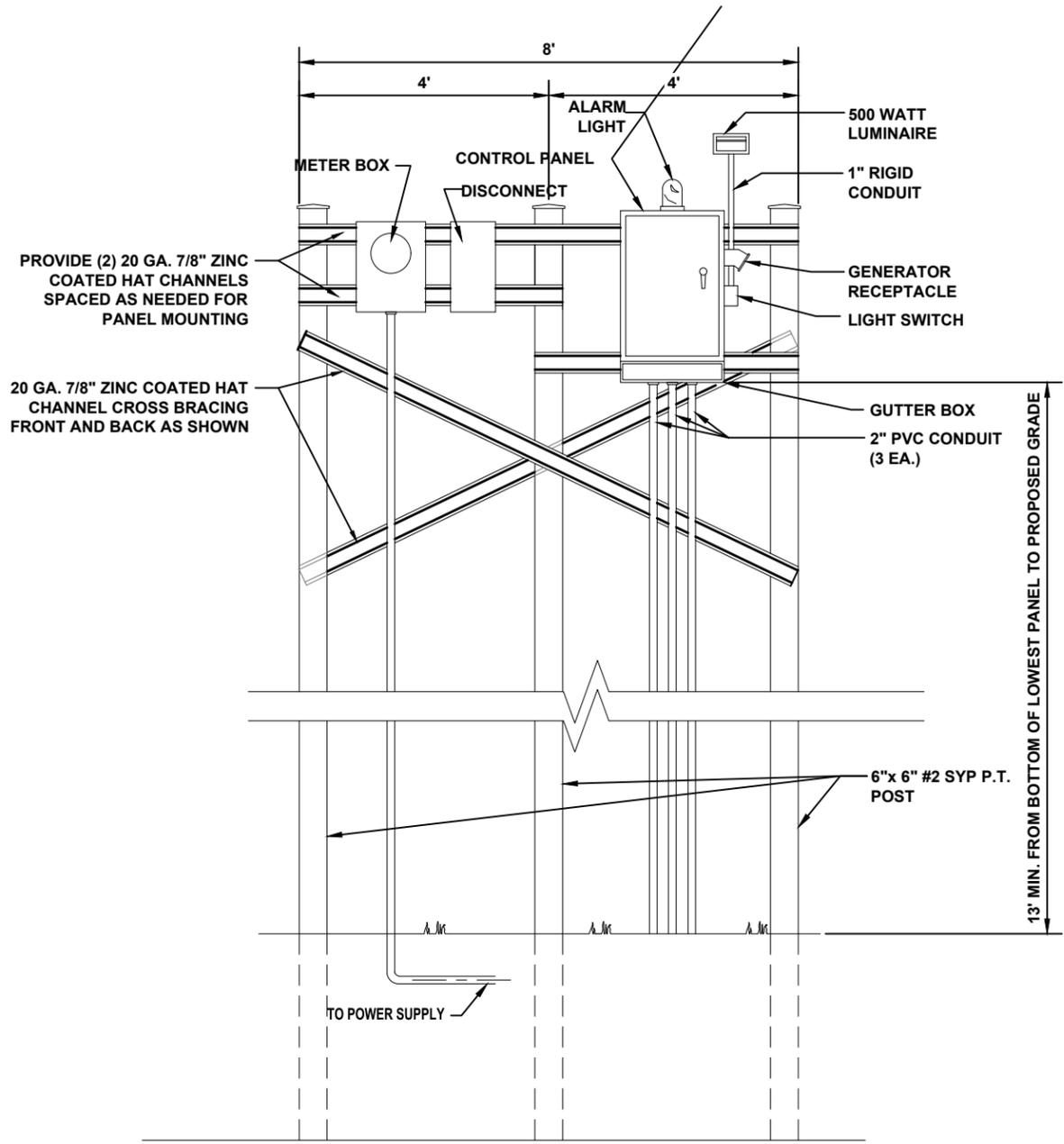
3 BIOMICROBICS MICROFAST 3.0 ATU DETAIL
12 SCALE: N.T.S.

File Location: X:\2018\180112CCBH.CADD\Roadway\CCBdsign0112 MISC. DETAILS
 Date Created: May 2, 2019 Date Plotted: May 2, 2019
 THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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MISC. DETAILS
 RUM ISLAND SPRINGS PARK IMPROVEMENTS
 COLUMBIA COUNTY, FL

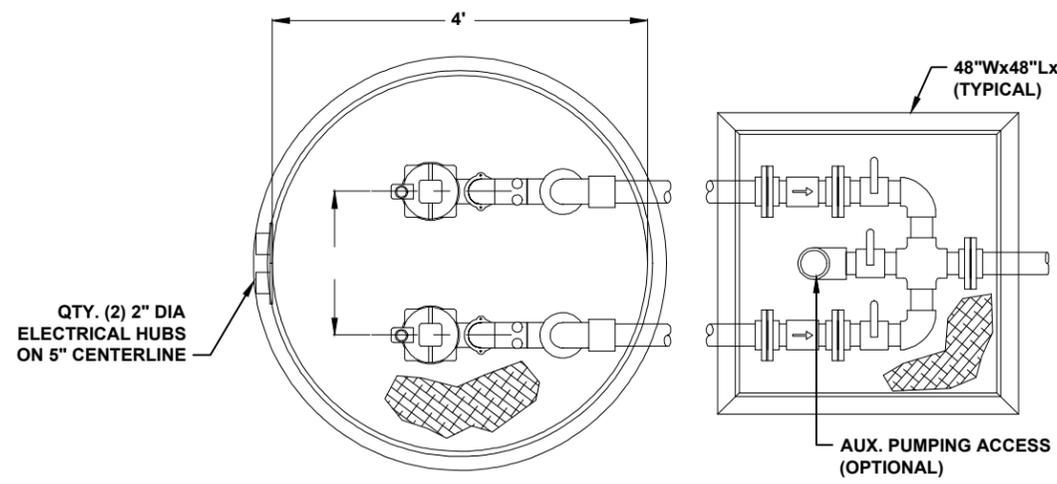
REVISIONS:
 JOB NUMBER: L180112CCB
 DESIGNED BY: [] CHECKED BY: GB
 DS
 ENGINEER OF RECORD: []
 P.E. NO.: 49888
 DATE: 01/12/2018
 SHEET NO. 12



CONTROL PANEL

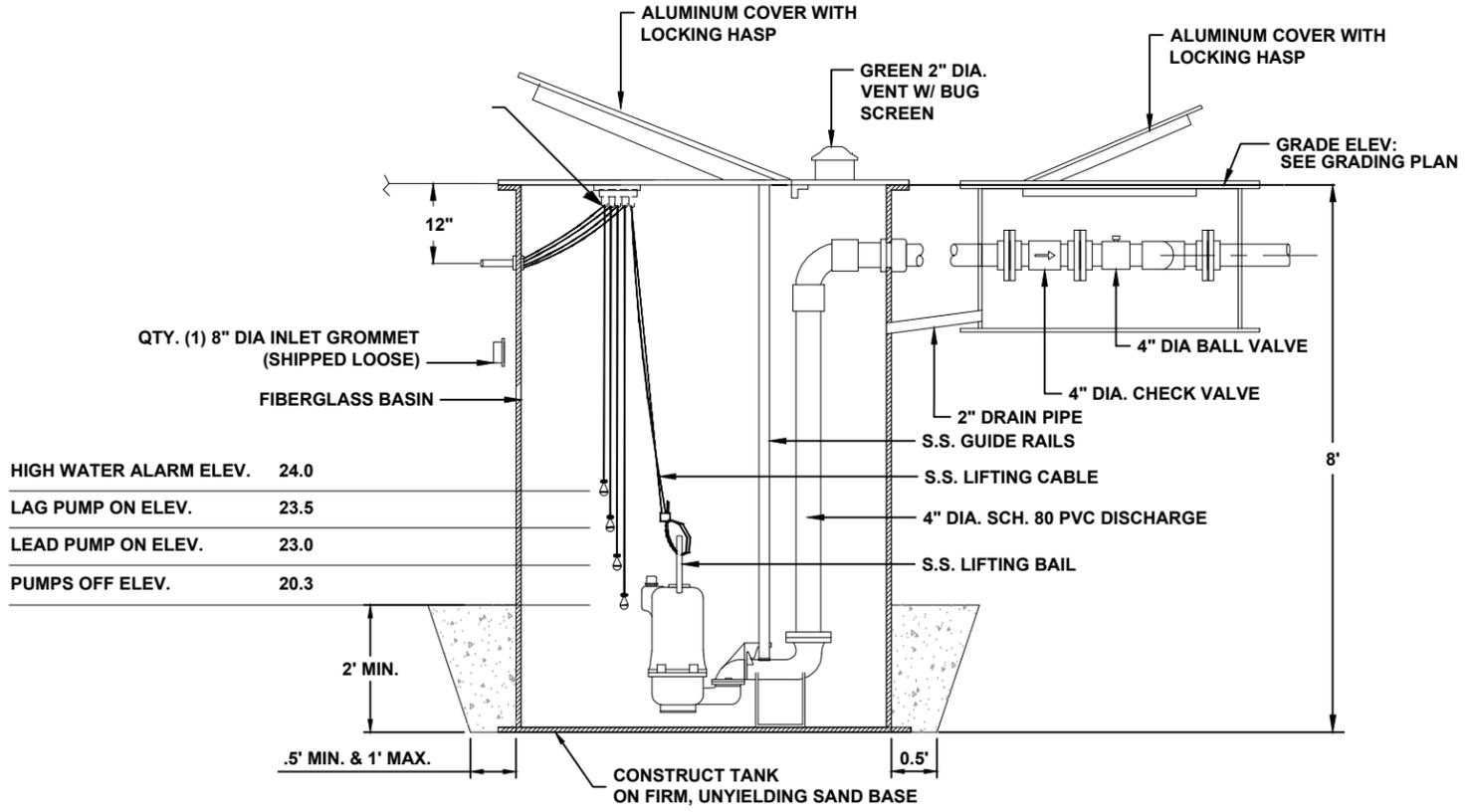
- CONTROL PANEL NOTES:**
- CONTROL PANEL ASSEMBLY SHALL BE LOCATED AT PUMP STATION SITE.
 - PUMP CONTROL PANEL SHALL BE SUPPLIED BY PUMP MANUFACTURER AND GENERALLY CONSIST OF A 30"WX36"H NEMA TYPE 4X ENCLOSURE CONSTRUCTED OF 304 STAINLESS STEEL AND UL LISTED.
 - A 12"x12"x30" 304 STAINLESS STEEL GUTTER BOX SHALL BE ATTACHED TO THE CONTROL PANEL BY COMPRESSION CORD CONNECTORS ONLY (SIZED FOR THE PUMP, SEAL, AND CONTROL LEADS). NO SEAL OFF FITTINGS SHALL BE INSTALLED IN THE CONDUITS. AN EFFECTIVE SEAL SHALL BE MADE BETWEEN THE CONTROL PANEL AND THE GUTTER BOX.
 - CONTRACTOR SHALL INSTALL ALL MOUNTING COMPONENTS (GALVANIZED POSTS, UNISTRUTS, ETC.), CONTROL PANEL, GUTTER BOX, PVC CONDUITS TO WET WELL, POLE LIGHT AND SWITCH, METER BOX AND DISCONNECT, AND POWER CONNECT TO NEAREST POWER SUPPLY.

1 CONTROL PANEL DETAIL
 13 SCALE:NO SCALE



PUMP SPECIFICATIONS	
PUMPS REQ'D	2
MANUFACTURER	HYDROMATIC
MODEL NUMBER	HVS200M2-2
PUMP SIZE	15.81"
CAPACITY EACH (GPM)	31
TOTAL HEAD (FEET)	138
IMPELLER DIA.	4.5"
MOTOR HP REQ'D	2 HP
SPEED (RPM)	3450
ELECTRICAL	230V/1Ø/60Hz

TANK	
A (DIA)	B (HEIGHT)
48"	96"



HIGH WATER ALARM ELEV.	24.0
LAG PUMP ON ELEV.	23.5
LEAD PUMP ON ELEV.	23.0
PUMPS OFF ELEV.	20.3

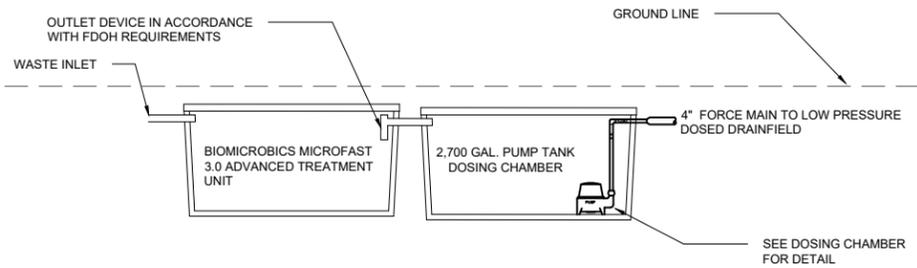
- NOTE:**
- CONTRACTOR TO CONSTRUCT MIN. OF 3 CUBIC YARDS OF CONCRETE TO BE PLACED OVER THE BASE FLANGE TO PREVENT FLOTATION.
 - SLOPE AND SIZE OF EXCAVATION AS PER OSHA SPECIFICATION.

2 FIBERGLASS LIFT STATION DETAIL
 13

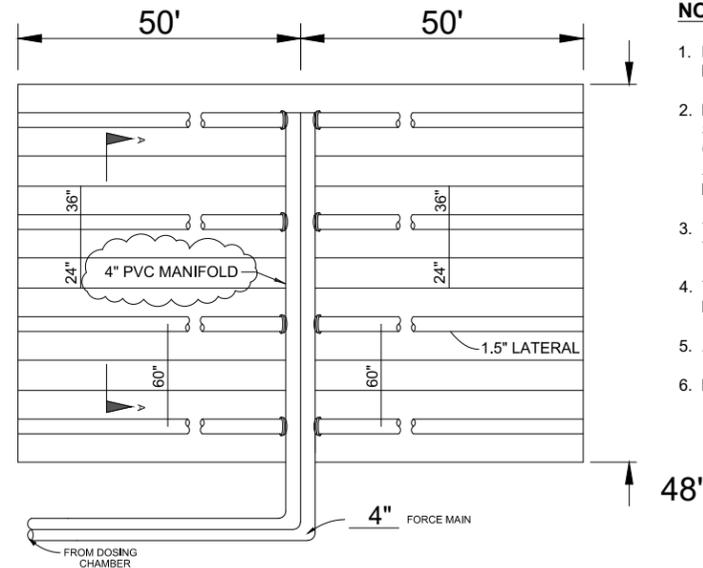


NOTES:

1. ALL SYSTEM COMPONENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOH REQUIREMENTS (CH. 64E-6 F.A.C.), AND FDOH SYSTEM PERMIT
2. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND REQUIREMENTS.



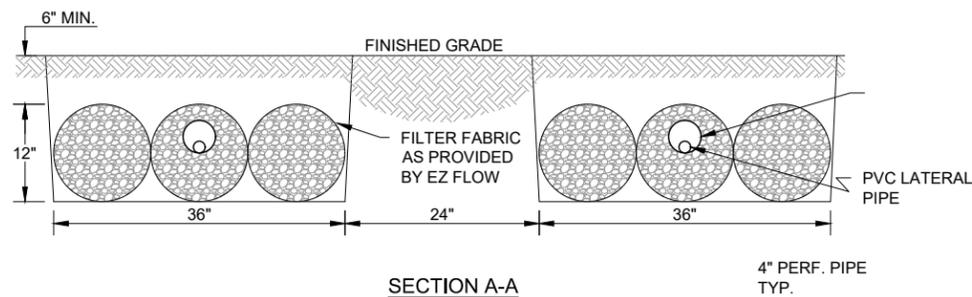
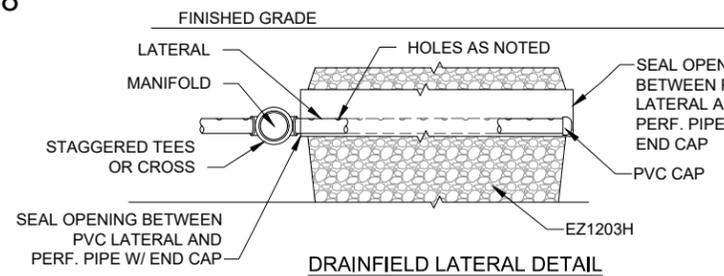
TREATMENT TRAIN PROFILE



NOTES:

1. LOW PRESSURE NETWORK TO CONSIST OF 10-1.5" PVC LATERALS EACH SIDE (20 TOTAL) OF 4" PVC MANIFOLD.
2. EACH LATERAL SHALL BE DRILLED ON A STRAIGHT LINE ALONG THE LENGTH OF THE PIPE. ALL HOLES SHALL BE DRILLED PERPENDICULAR TO THE PIPE AND NOT AT AN ANGLE. HOLES SHALL BE SPACED 6' ON CENTER STARTING 24" FROM THE MANIFOLD AND SHALL BE 1/4" IN DIAMETER. ALL BURRS LEFT AROUND THE HOLES INSIDE THE PIPE SHALL BE REMOVED. REAMING OR ENLARGING OF THE ORIFICE IS NOT ALLOWED.
3. THE LATERALS SHALL BE ATTACHED TO THE MANIFOLD SUCH THAT THE PERFORATIONS LIE ALONG THE CROWN OF THE PIPE.
4. THE LOW PRESSURE NETWORK SHALL BE GRADED SUCH THAT VARIATIONS IN ELEVATION SHALL NOT EXCEED 0.20'.
5. ALL PIPING SHALL BE SCHEDULE 40 PVC.
6. PVC LATERALS SHALL BE PLACED INSIDE EZ1203H DRAINFIELD PIPE SYSTEM.

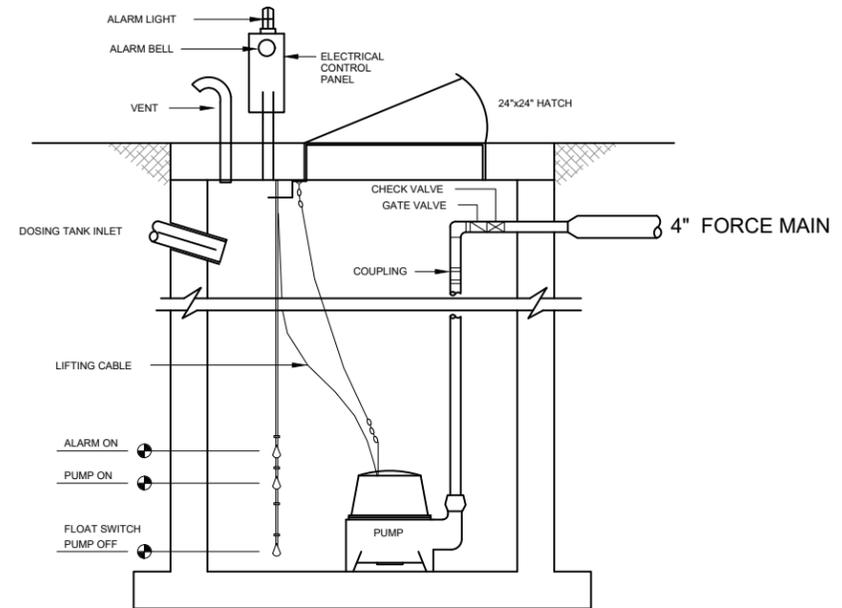
NOTE:
ALL LATERALS MAY NOT BE SHOWN ON
DETAIL FOR CLARITY. SEE NOTES FOR
NUMBER AND SPECIFICATIONS.



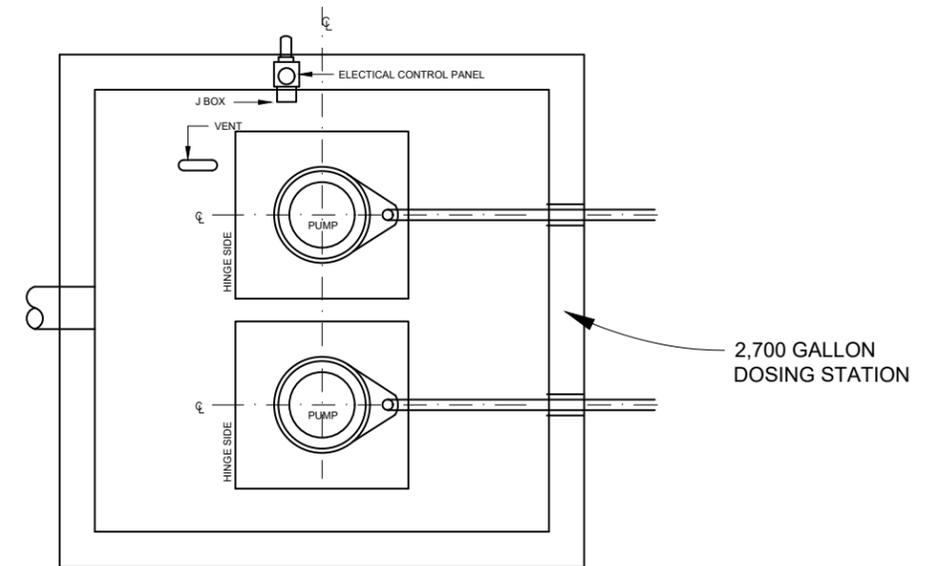
DRAINFIELD DETAIL

NOTES:

1. THE PUMPS SHALL BE PLACED IN A SINGLE DOSING TANK W/ A CONTROL PANEL.
2. THE PUMP ON AND OFF LEVELS SHALL BE SET TO PUMP 346 GALLONS EACH CYCLE.
3. THE PUMPS SHALL BE SET TO DOSE ALTERNATELY.



**SECTION
DUPLEX DOSING CHAMBER**



TOP VIEW

GPM	TDH	BHP
187	13.42	1 1/2

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Eng. Lic. 29011



SEPTIC SYSTEM DETAILS
RUM ISLAND SPRINGS PARK IMPROVEMENTS
COLUMBIA COUNTY, FL

REVISIONS:

JOB NUMBER: L180112CCB
DESIGNED BY: DRAFTED BY: CHECKED BY: GB
DS KB

ENGINEER OF RECORD: R. BAILEY
P.E. NO.: 49868

DATE: 01/12/2018

SHEET NO. 14