

TRINITY BOULEVARD
ARTERIAL ROAD, 200 R/W, ASPHALT

CHLORINE INJECTION POINT

PROPOSED WET TAP TO EXISTING 12" WATER MAIN (PASCO CO. TO INSTALL TAP) 2-2" 90° BENDS

PROPOSED 1" WATER METER ASSEMBLY WITH REZ BACKFLOW EQUIPPED WITH AUTO METER READING (AMR) CAPABILITY.

EXISTING 50' WIDE ACCESS AND UTILITY EASEMENT (OR BK 8867, PGS. 1038-1044)

LIBRARY PASCO CO.

EXISTING PASCO CO. FIRE / POLICE STATION

TRINITY LAKES APARTMENTS (CURRENTLY UNDER CONSTRUCTION)



LEGEND

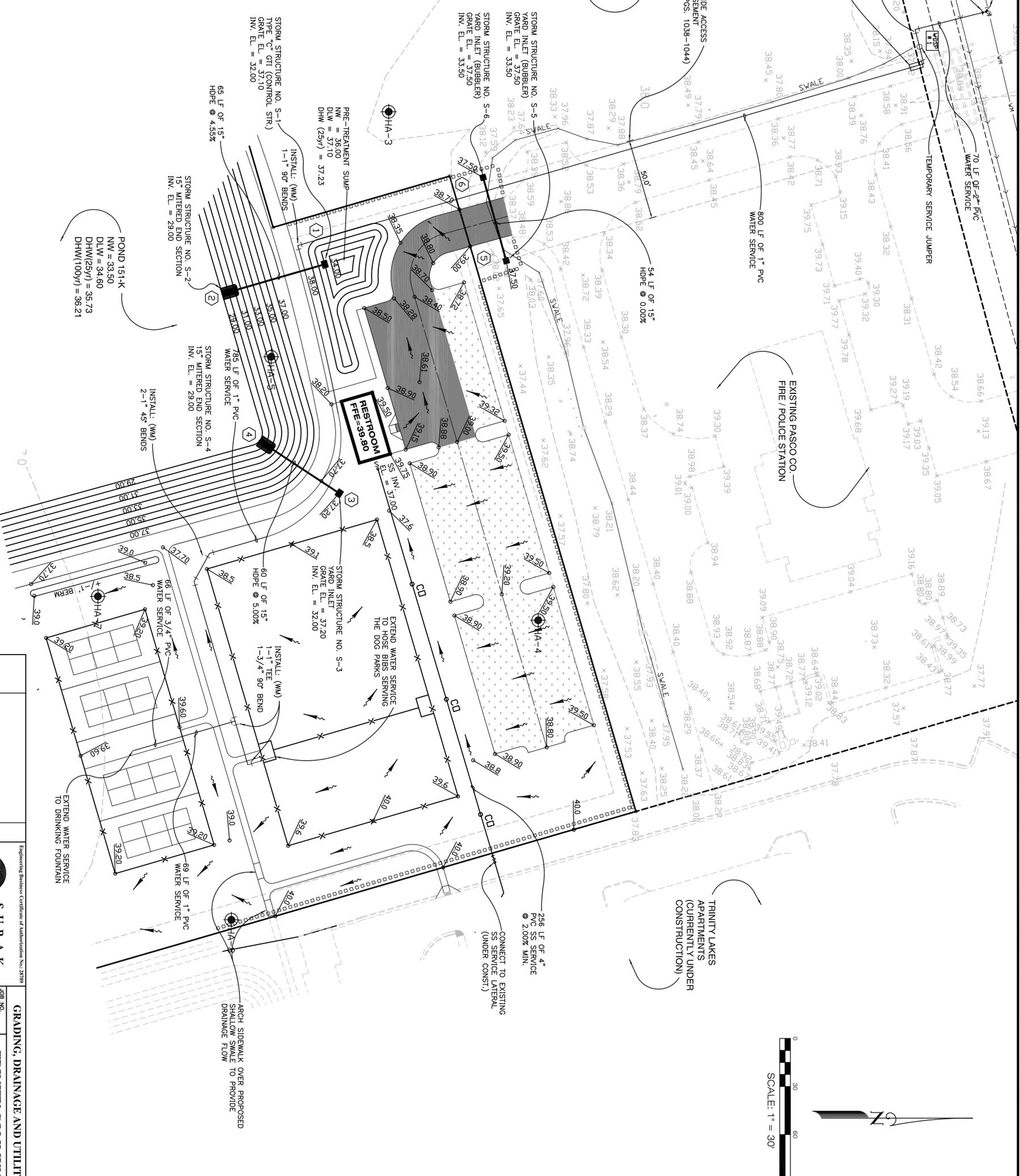
- EXISTING
- PROPOSED
- STORM DRAINAGE STRUCTURE
- STRUCTURE NO.
- SPOT ELEVATION
- CONTOUR
- FINISH FLOOR ELEVATION
- FFE= 197.00
- DIRECTION OF SURFACE FLOW
- STAKED EROSION CONTROL
- SOIL BORING LOCATION (> 20')
- SP#H
- ROAD BORING LOCATION (6' - 8')
- EXISTING TREE TO BE REMOVED
- WATER MAIN (WM)
- FIRE MAIN & FIRE HYDRANT
- VALVE & BOX
- REDUCER
- PLUG
- BLOW-OFF
- BENDS
- WATER SERVICE W/VALVE
- WATER DISTRIBUTION SAMPLING POINT
- WATER SERVICE (WS)
- 6" SANITARY SERVICE W/CLEANOUT
- SANITARY FORCE MAIN (FM)
- SINGLE SERVICE (FIRE)

PASCO CO. WET TAP NOTES

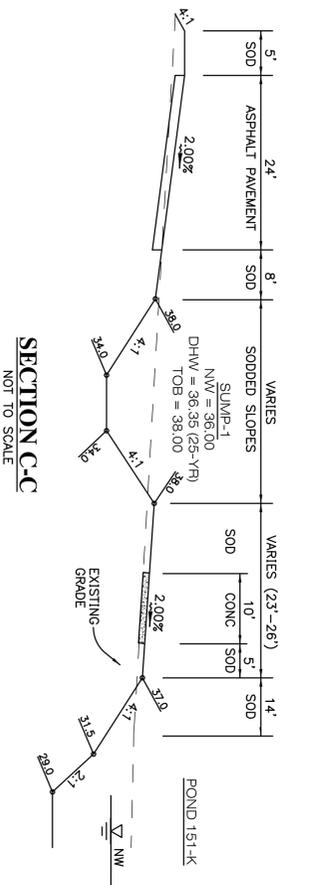
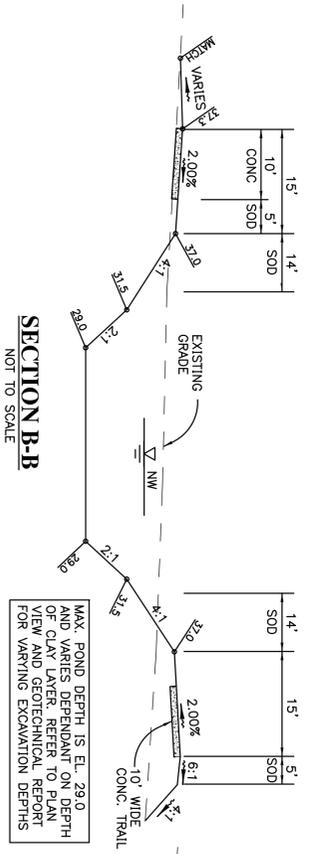
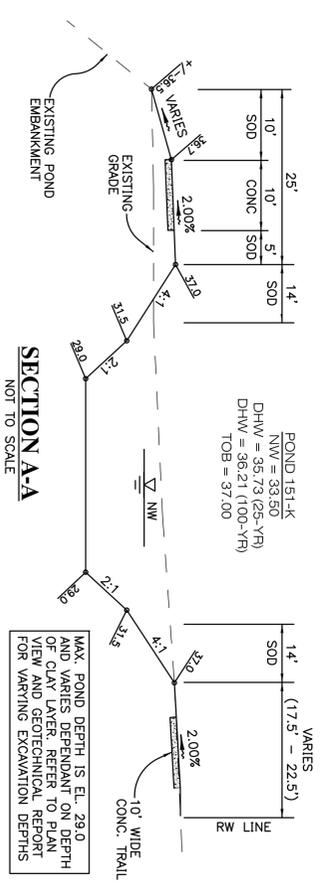
1. CONTRACTOR'S RESPONSIBILITIES REGARDING WET TAPS ARE AS FOLLOWS:
2. ONLY THIS EXCAVATED TRENCH MUST BE DRY OR THE TRENCH WILL REQUIRE ROCK AND WALL OF THE TRENCH IS TO BE SIX FEET.
3. 2" AND LARGER THE CONTRACTOR WILL SUPPLY A TAPPING SOURCE BEING EXPOSED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TAPPING SOURCE AND THE TAPPING SOURCE AND CONDUCT A PRESSURE TEST. COUNTY PERSONNEL WILL WITNESS THE PRESSURE TEST WHICH MUST BE AT 150 PSI FOR A DURATION OF THIRTY MINUTES.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER THE EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX OR SHIELDING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
5. THE TAPPING VALVE WILL REQUIRE A BLOCKING DEVICE MADE OF SUITABLE MATERIAL. PLACE VALVE, THE BLOCKING DEVICE IS REMOVED AND THE TAPS IS COMPLETED.
6. IF THE CONTRACTOR HAS NOT FULFILLED HIS RESPONSIBILITIES, AS STATED ABOVE, PRIOR TO THE COMMENCEMENT OF THE TAPPING OPERATION, PASCO COUNTY WILL BE CHARGED WITH SUPERVISION OF THE TAPPING OPERATION AND MAINTENANCE TAPPING CHARGE OF \$82.00.
7. ANY QUESTIONS REGARDING WET TAPS MAY BE DIRECTED TO NEESON B. HOOT, FIELD SUPERVISOR, PASCO COUNTY UTILITIES SERVICE BRANCH, AT 727-541-5145 OR EMAIL: NHOOT@PASCOCOUNTYFL.NET

STORM SEWER NOTES:

1. ALL INLET AND MANHOLE STRUCTURE BOTTOMS ARE SPECIFIED TYPE 'P' UNLESS OTHERWISE NOTED. REFER TO FOOT DESIGN STANDARDS INDEX #200 & #201.
2. ALL MITERED END SECTIONS (MES) ARE SPECIFIED FOOT INDEX #272 UNLESS OTHERWISE NOTED.
3. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO THE CENTER OF STRUCTURE OR END OF MES, TO THE NEAREST FOOT.
4. ALL PVC/HDP PIPE SHALL HAVE A DOUBLE WALL, SMOOTH BORE.

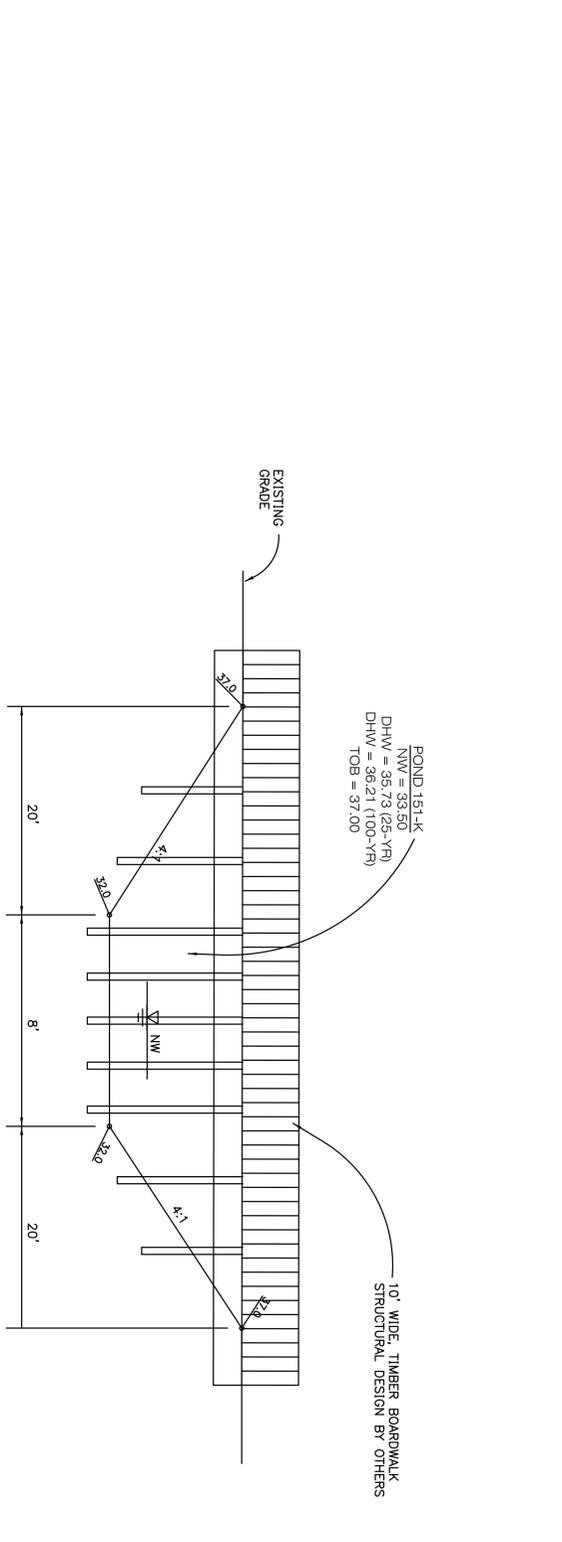
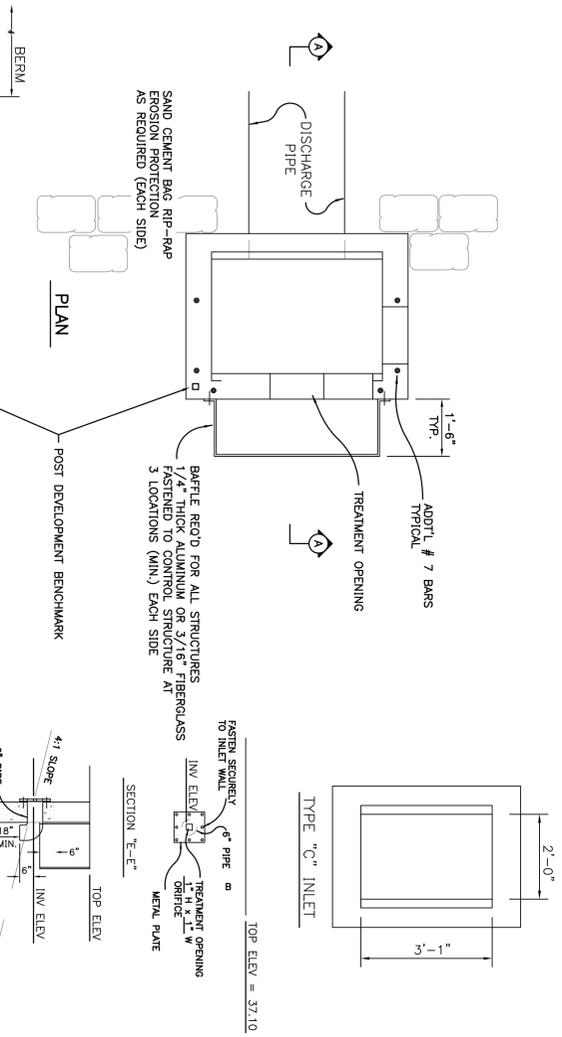
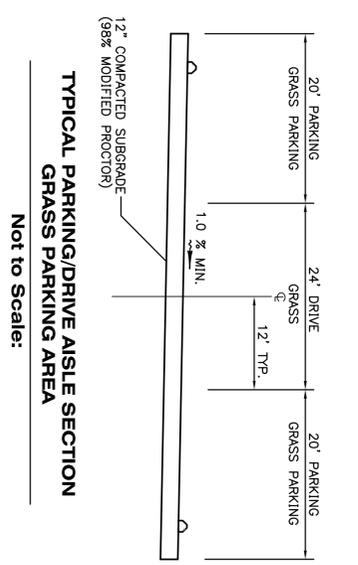
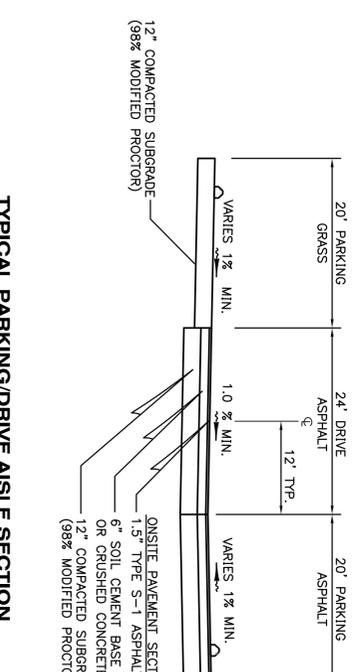
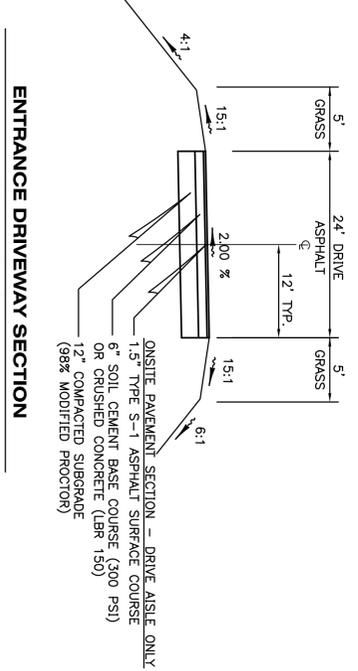


<p>Engineering Business Certificate of Authorization No. 25789</p> <p>SURAK ENGINEERING 2025 WASHINGTON CENTER LAND OAKS, FLORIDA 32060 (407) 244-5138 BUREAU@SURAK.COM</p>		<p>GRADING, DRAINAGE AND UTILITY PLAN</p> <p>DESIGN: BOS DRAWN: BOS DATE: 08-27-13 PREPARED FOR: TRINITY COMMUNITIES MASTER ASSOCIATION, INC. Elevation based on National Geodetic Vertical Datum 1985 (NGVD 85) Conversion from NVD 29 to NVD 88 = -0.84 Feet</p>	
<p>11-14-13 PER PASCO COUNTY COMMENTS</p>	<p>DATE</p>	<p>DESCRIPTION</p>	<p>BY</p>
<p>REVISIONS</p>	<p>DATE</p>	<p>DESCRIPTION</p>	<p>BY</p>
<p>BRIAN G. SUPAK, P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER</p>		<p>FILE: GDP</p>	

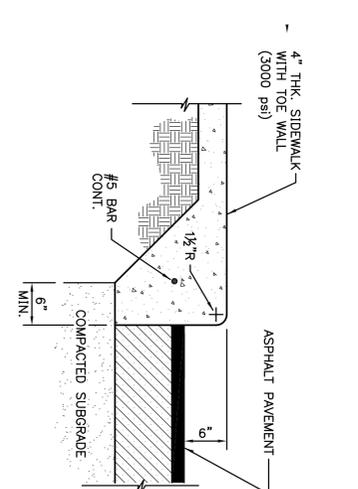
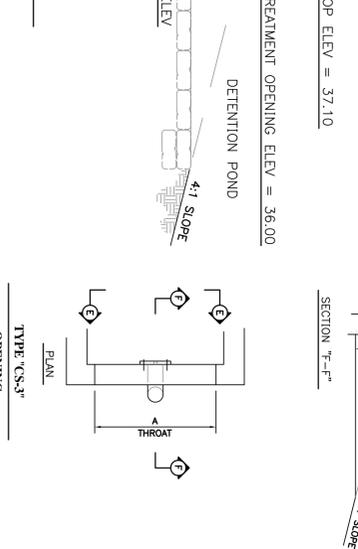


POND EXCAVATION NOTES:

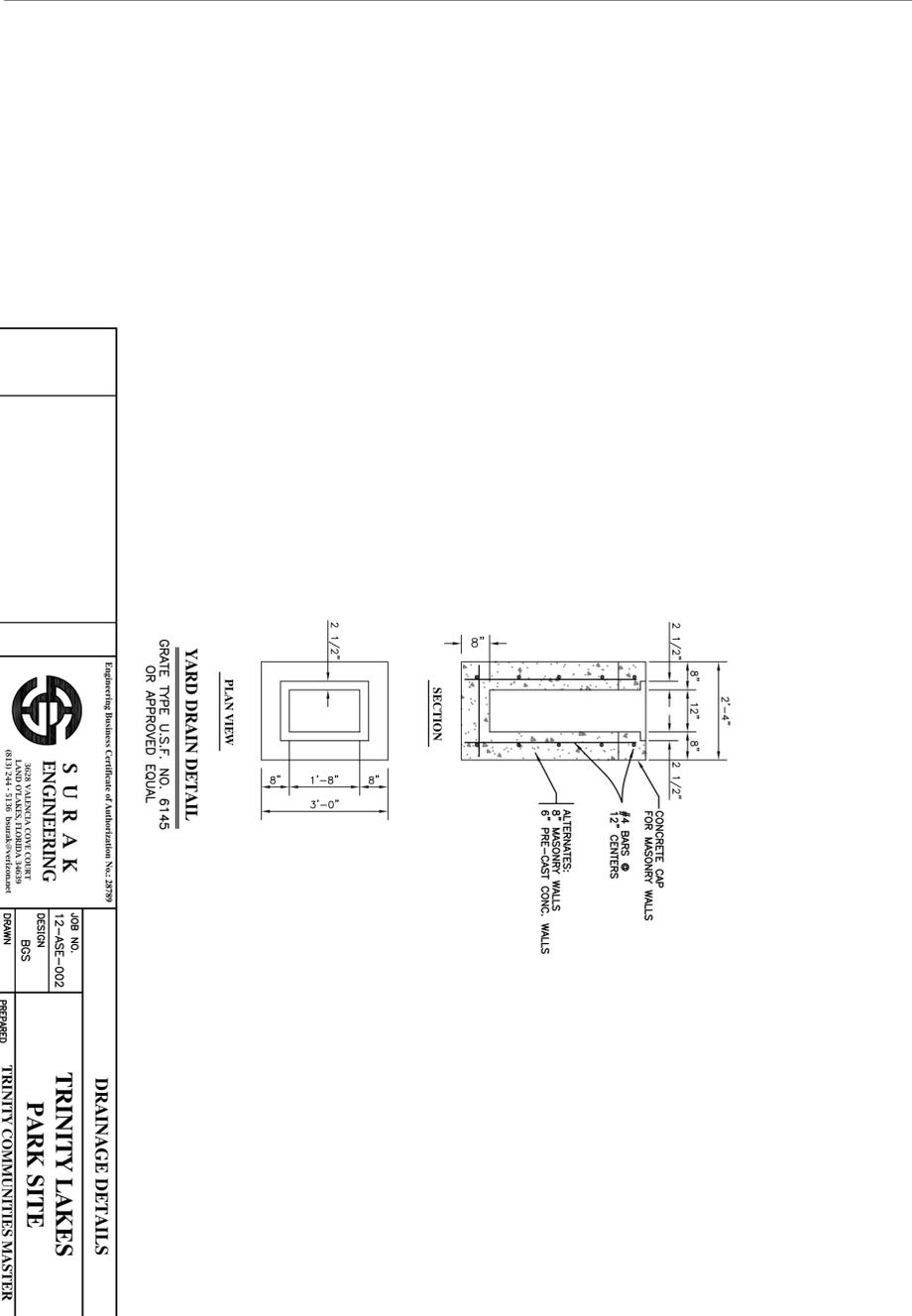
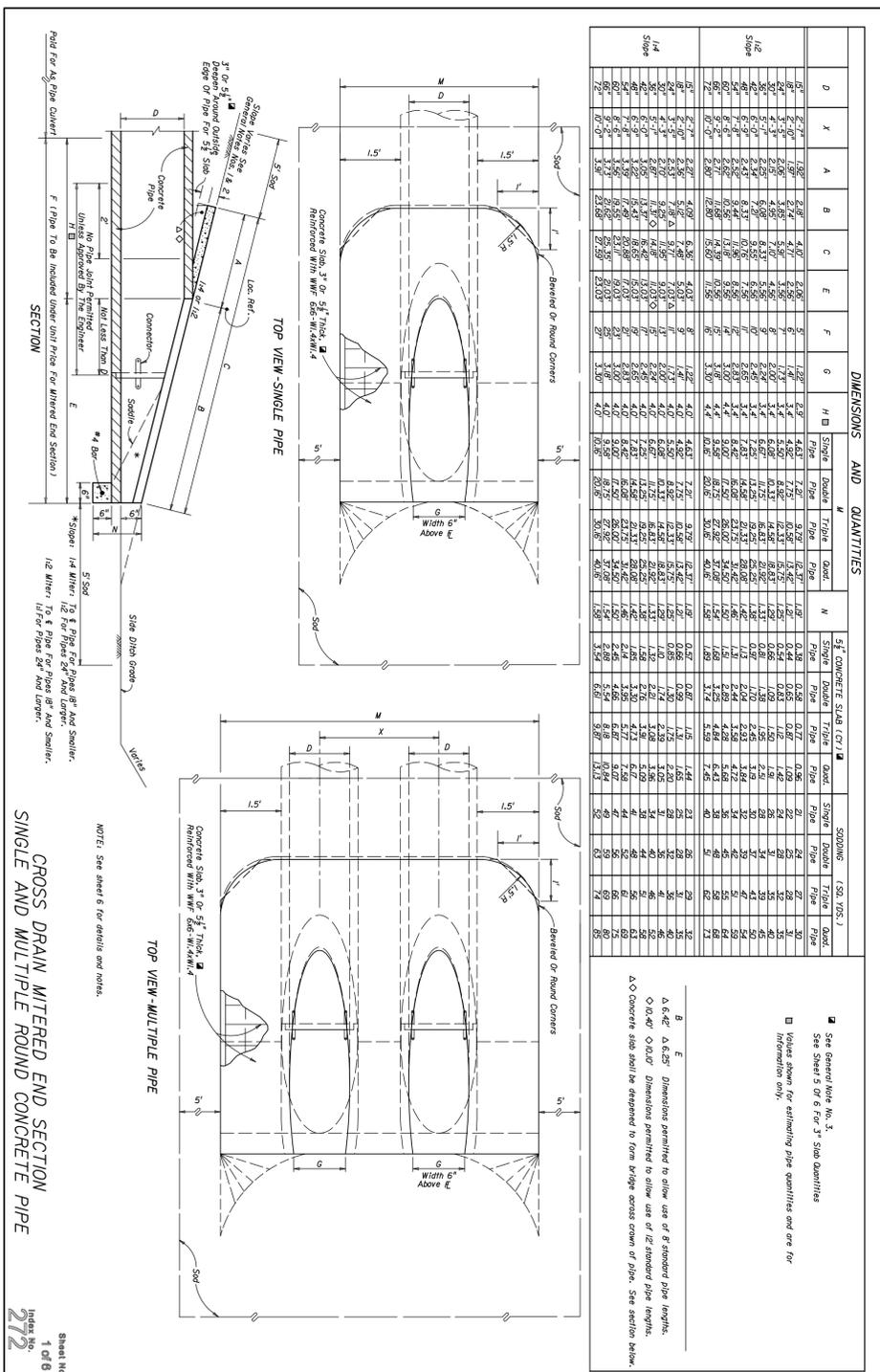
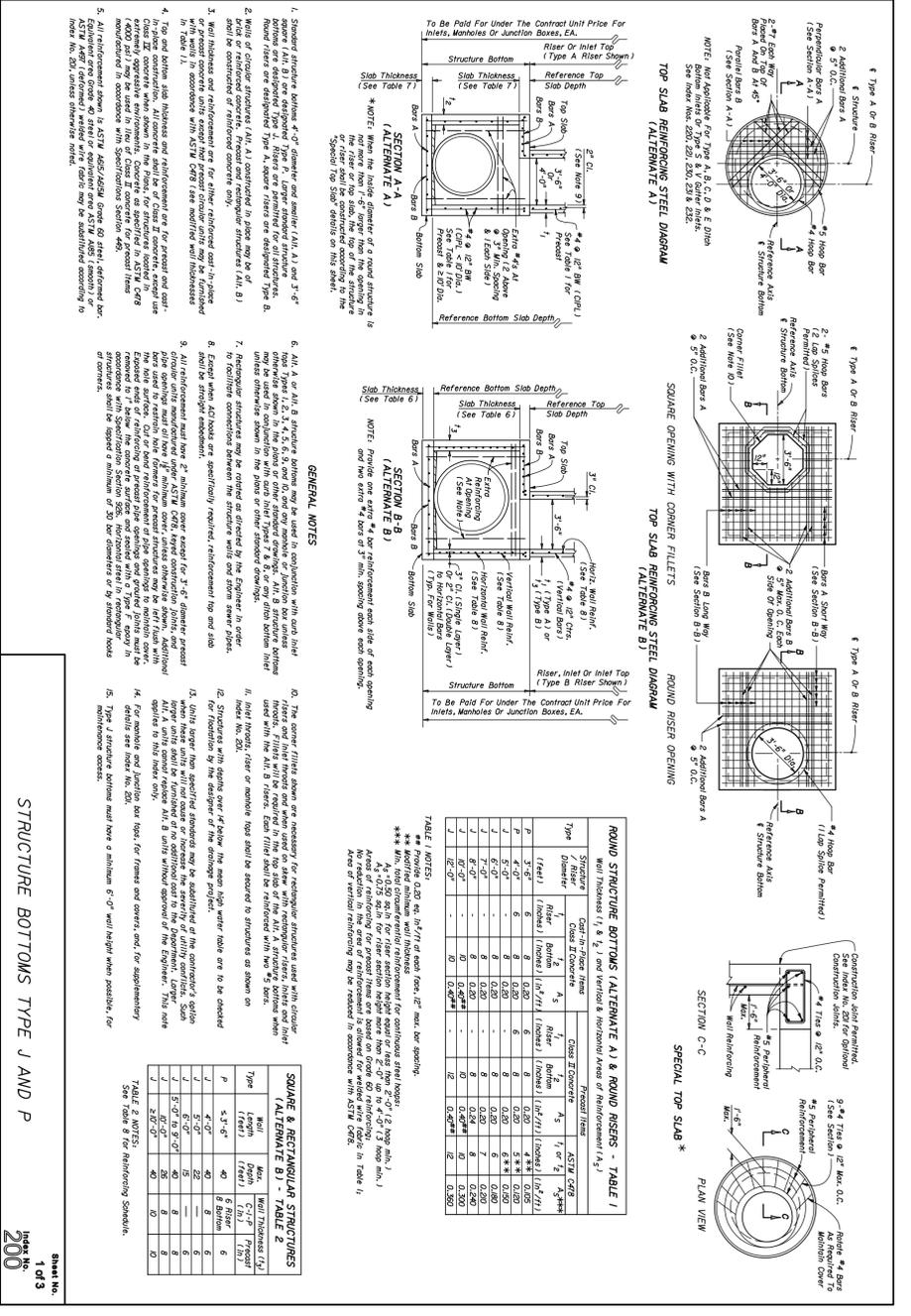
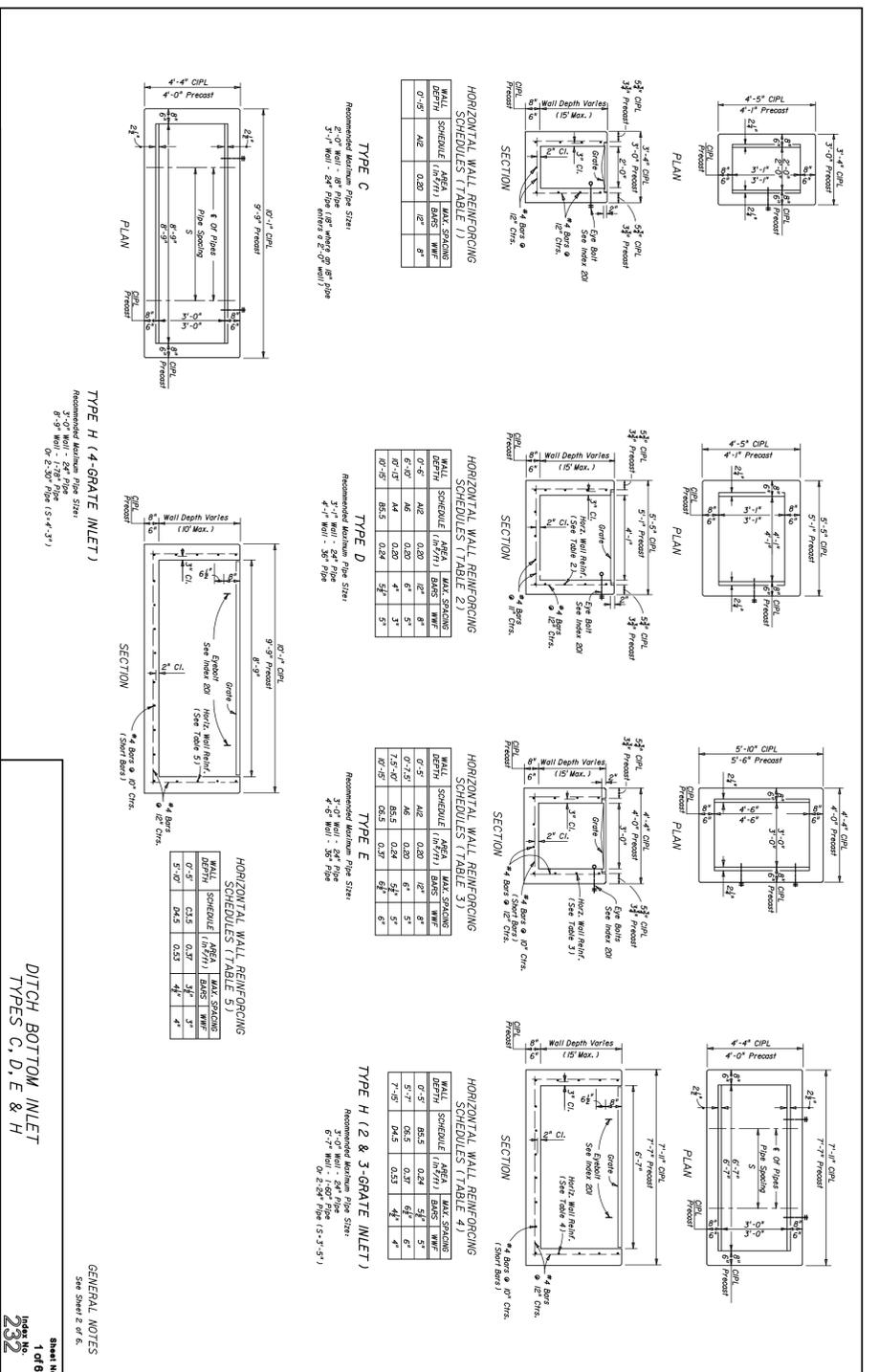
- No pond/lake excavation (for any purpose) shall extend beyond or below the permitted design drawings (unless additional testing supports otherwise, and such operation is consistent with permit). Excavation depths shall be consistent with the design drawings. Excavation depths shall be consistent with the design drawings. Excavation depths shall be consistent with the design drawings.
- No temporary dewatering, ditches or surges (for pond/lake excavation) shall be shown on the permitted design drawings.
- If any lower semi-confined unit clay, mudstone or weathered limestone materials are encountered, then excavation operations in that pond/lake area shall immediately cease in the general area, and the geotechnical consultant shall be notified. Excavation operations shall be suspended until the geotechnical consultant shall be notified. Excavation operations shall be suspended until the geotechnical consultant shall be notified.



CONTROL STRUCTURE S-1
MODIFIED



DATE	11-14-13	PER PASCO COUNTY COMMENTS	BOS
REVISIONS	DESCRIPTION		
DATE	09-27-13	PREPARED FOR	TRINITY COMMUNITIES MASTER
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Sheet No. 1 of 6
Index No. 272

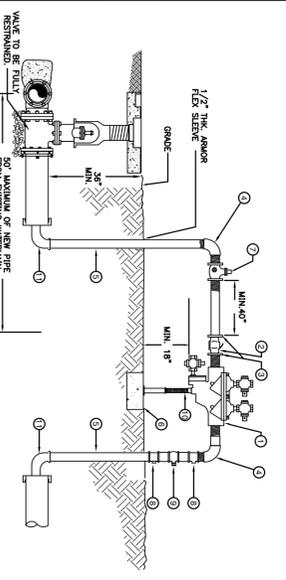
DATE: 09-27-13

DESCRIPTION: REVISIONS

BY: BRIANG SUPAK, P.E. NO. 59064
FLORIDA PROFESSIONAL ENGINEER

DESIGNER: SURA ENGINEERING
3028 WALKERS CREEK CORNER
LAND OAKS, FLORIDA 32060
(813) 244-5138

DRG. NO. 12-45E-002
DESIGN: BSS
DRAWN: BSS



MATERIALS	
ITEM QUANT.	DESCRIPTION
1	2" BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	2" BRASS ELBOWS - GALV. 90°
3	2" BRASS ELBOWS - GALV. 90°
4	2" ELBOWS - GALV. 90°
5	2" RISER - GALV.
6	2" RISER - GALV.
7	1" VALVE - BRASS OR S.S.
8	1" VALVE - BRASS OR S.S.
9	2" GATE VALVE - BRASS OR S.S.
10	2" GATE VALVE - BRASS OR S.S.
11	2" GATE VALVE - BRASS OR S.S.
12	2" GATE VALVE - BRASS OR S.S.

NOTE: - CONTRACTOR/CUSTOMER SHALL APPLY AT PASCO COUNTY UTILITIES CUSTOMER SERVICE FOR TEMPORARY WATER SERVICE. ALL FITTINGS, PIPING, VALVES AND MATERIALS INCLUDING THE PASCO COUNTY APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE FINISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER.

- CONTRACTOR/CUSTOMER FINISHED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE TESTED AND CERTIFIED BY PASCO COUNTY UTILITIES CERTIFIED BACKFLOW PREVENTION TECHNICIAN AT TIME OF WATER INSTALLATION.

- CONTRACTOR/CUSTOMER SHALL PROVIDE THE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE TO THE PASCO COUNTY UTILITIES CERTIFIED BACKFLOW PREVENTION TECHNICIAN FOR TESTING AND CERTIFICATION OF TEMPORARY WATER SERVICE.

- TEMPORARY CONSTRUCTION JUMP/WATER ASSEMBLY SHALL NOT BE REMOVED UNTIL SYSTEM IS ACCEPTED AND DEPARTMENT OF HEALTH CERTIFICATION AND CLEARANCE FOR SERVICE FORM HAS BEEN RECEIVED BY PASCO COUNTY UTILITIES.

- WHEN THE NEW SYSTEM IS ACCEPTED AND THE FINAL WATER READING TAKEN BY PASCO COUNTY, THE TEMPORARY CONSTRUCTION JUMP/WATER ASSEMBLY MUST BE COMPLETELY DEMOLISHED AND REMOVED FROM THE SERVICE AREA. THE CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR OBTAINING AND INSTALLING THE FINAL CONNECTION.

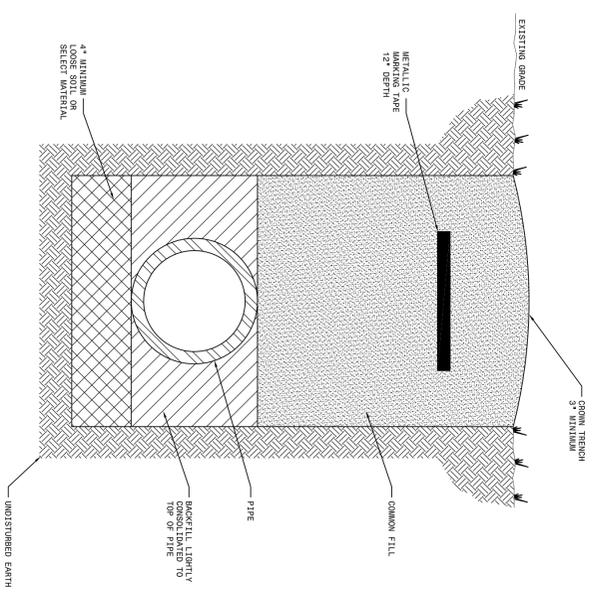
- BY APPLYING FOR SERVICE, CONTRACTOR/CUSTOMER AGREES TO TAKE WATER SERVICE FROM PASCO COUNTY UTILITIES IN ACCORDANCE WITH THE APPROPRIATE RATE SCHEDULE AND IN ACCORDANCE WITH PASCO COUNTY UTILITIES RULES AND REGULATIONS.

CREATED 11/18/05
 REVISION 06/20/06

TEMPORARY CONSTRUCTION WATER SERVICE
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 01



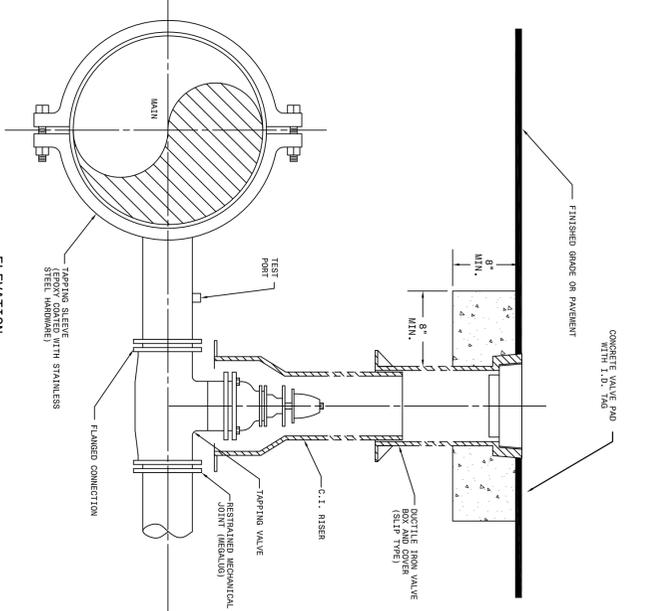
NOTES: - LOOSE SOIL OR SELECT MATERIAL IS ACTIVE SOIL EXCAVATED FROM THE TRENCH. COMMON FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTING UNTIL A MINIMUM OF 48 HOURS AFTER PLACEMENT. COMMON FILL SHALL BE PLACED OVER THE PIPE. THREE FEET OF FILL SHALL BE PLACED BEFORE A HANDRAIL MAY BE USED FOR CONSTRUCTION.

CREATED 02/24/03
 REVISION

PIPE LAYING CONDITIONS
 STANDARD UNPAVED AREAS
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 32



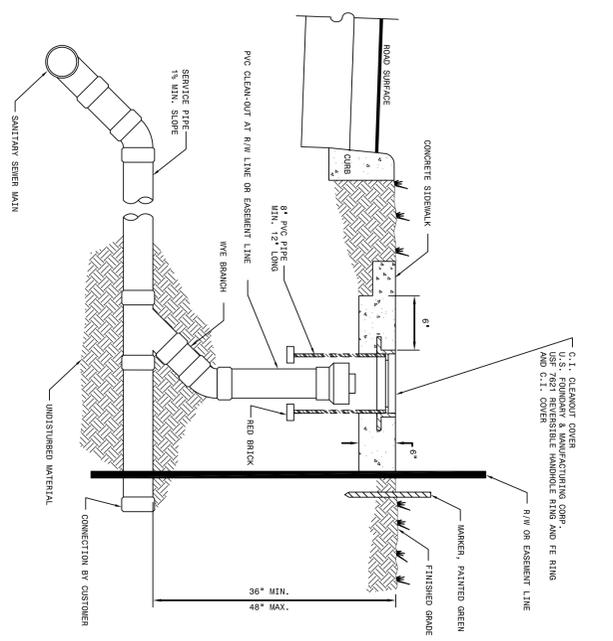
NOTES: - SAND CONNECTION WILL BE TESTED TO 150 PSI PRIOR TO TAPPING MAIN. - REGULATION JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED BY COUNTY ENGINEER. - VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NOT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED 02/24/03
 REVISION

WATER, REUSE, AND FORCE MAIN
 TAPPING DETAIL W/ VALVE LOCATION
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 34



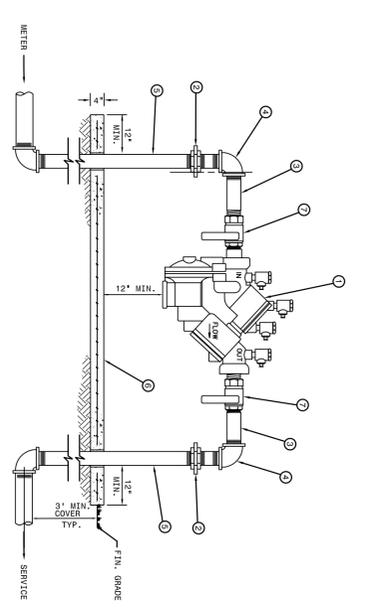
NOTES: - C.I. CLEANOUT COVER SHALL BE 18\"/>

CREATED 02/24/03
 REVISION

SANITARY SEWER - SINGLE WYE CONNECTION
 AND TYPICAL CLEAN-OUT
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 42



MATERIALS	
ITEM QUANT.	DESCRIPTION
1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	2\"/>
3	2\"/>
4	2\"/>
5	2\"/>
6	2\"/>
7	2\"/>
8	2\"/>
9	2\"/>
10	2\"/>
11	2\"/>
12	2\"/>

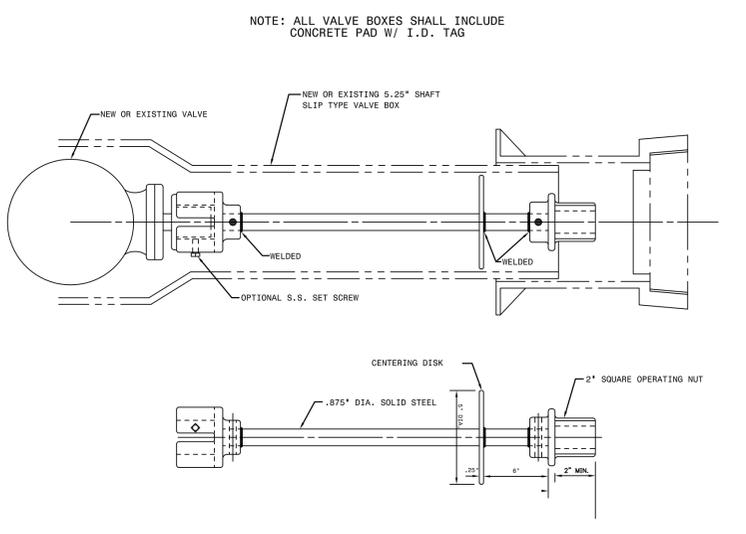
NOTE: - FIELD ASSEMBLY AND CUT TIE 9 TO THE PROPER LENGTH. - MINIMUM CLEARANCE OF 24\"/>

CREATED 02/24/03
 REVISION

REDUCED PRESSURE
 BACKFLOW PREVENTER
 (SINGLE SERVICE: 3/4\", 1\", 1-1/2\", 2\")
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 12



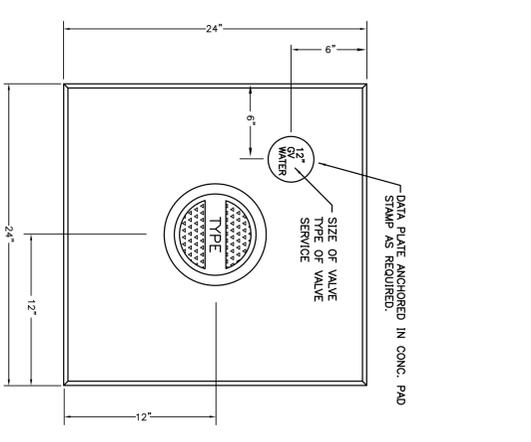
NOTE: ALL VALVE BOXES SHALL INCLUDE CONCRETE PAD W/ I.D. TAG

CREATED 02/24/03
 REVISION

VALVE EXTENSION RODS
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 26



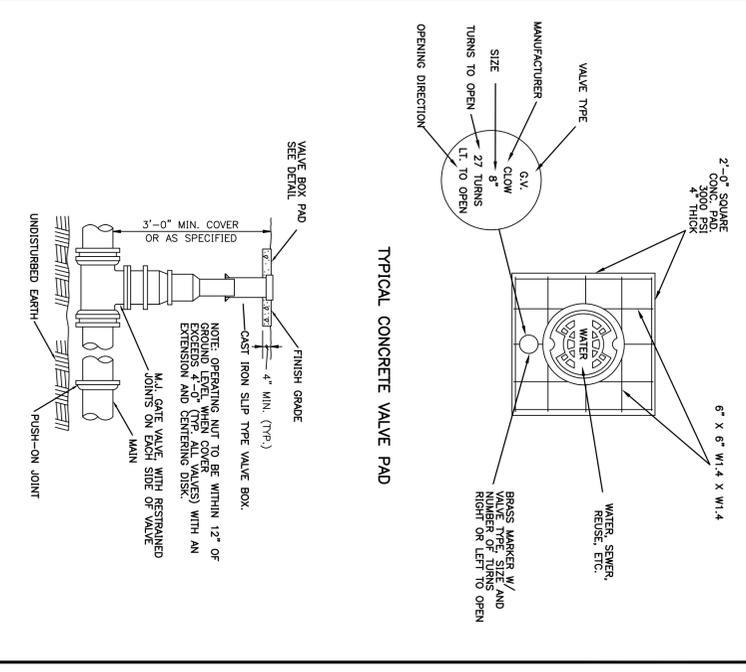
NOTES: - CONCRETE TO BE TYPE I GENERAL PORTLAND CEMENT WITH 3/4\"/>

CREATED 02/24/03
 REVISION

CONCRETE VALVE PAD
 (FOR UNPAVED AREAS)
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 27



NOTE: OPERATING NUT TO BE WITHIN 12\"/>

CREATED 02/24/03
 REVISION

VALVE BOX DETAIL
 SLIP TYPE
 PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN FCU APPROVAL.

DETAIL 27

Engineering Business Certificate of Administration No. 28789

SURAK ENGINEERING
 2626 WASHINGTON COURT
 LAND OLAKE, FLORIDA 34609
 (813) 244-5198 SURAK@SURAK.COM

BRIAN G. SUPAK, P.E. NO. 59064
 FLORIDA PROFESSIONAL ENGINEER

DATE	DESCRIPTION	BY
09-27-13	Conversion from NVD 29 to NVD 88 = -0.84 Feet	

PROJECT: TRINITY COMMUNITIES MASTER
 ASSOCIATION, INC.

DESIGN: BGS
 DRAWN: BGS

DATE: 09-27-13

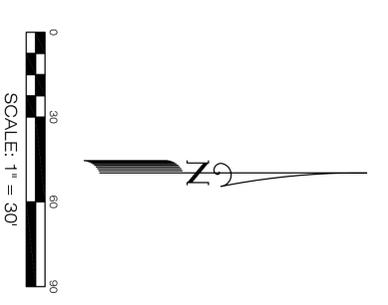
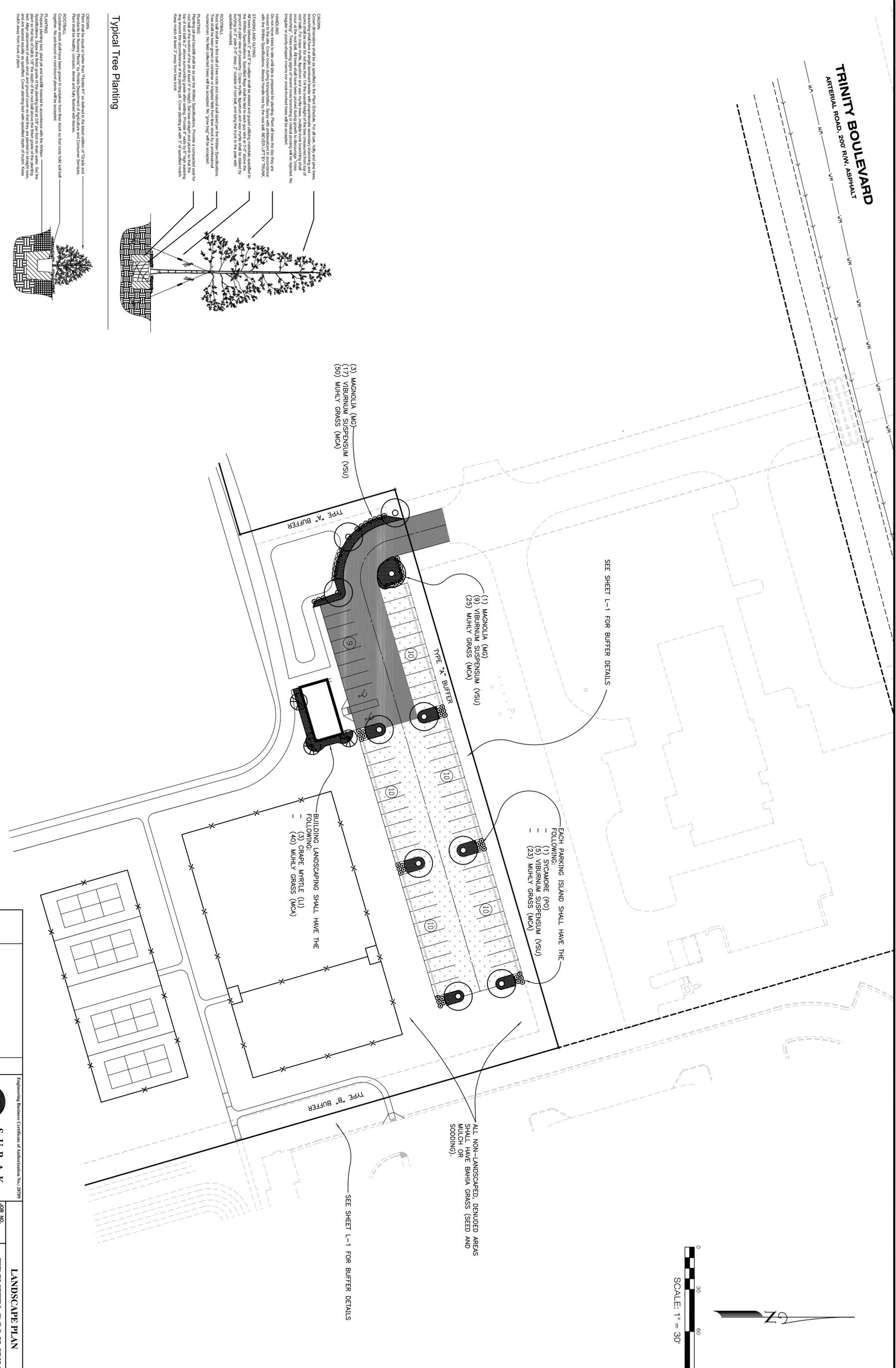
FILE: WSD01

TRINITY LAKES PARK SITE

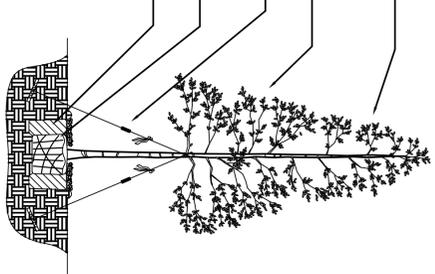
WATER AND SEWER DETAILS

9 OF 9 SHEETS

TRINITY BOULEVARD
ARTERIAL ROAD, 200 R/W, ASPHALT



Typical Tree Planting

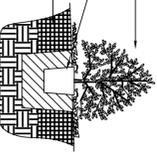


CROWN
The crown of a tree shall be as defined in the latest edition of "Standards and Specifications for Nursery Plants" by Florida Department of Agriculture and Consumer Services. The crown shall be healthy, compact, dense and big branches and leaves.

Container roots shall have been grown in container from their roots to that root ball soil ball together. No postbound or rootbound plants will be accepted.

PLANTING
Plants shall be planted at and handled in accordance with the "Nursery Standards" for the species of the plant. The plant shall be planted in a hole that is at least 20% larger than the root ball. The hole shall be dug to the depth of the planting and an equal quantity of specified cover planting soil with specified depth of mulch. Keep the soil level of the hole 2" away from the trunk.

Typical Shrub Planting



<p>Engineering Business Certificate of Authorization No. 25789</p> <p>SURAK ENGINEERING 3628 WASHINGTON CORNER LAND OAKS, FLORIDA 32069 (813) 244-5198 BUREAU/VERMONT</p>		<p>PROJECT NO. 12-ASE-002</p> <p>DESIGN: BSS</p> <p>DATE: 09-27-13</p> <p>PREPARED FOR: TRINITY COMMUNITIES MASTER ASSOCIATION, INC.</p> <p>Evaluation based on National Geodetic Vertical Datum (1989 (NGVD 29) Conversion from NAD 29 to NAVD 88 = -0.84 Feet</p>
<p>DATE: _____</p> <p>DESCRIPTION: _____</p> <p>BY: _____</p>	<p>DATE: _____</p> <p>DESCRIPTION: _____</p> <p>BY: _____</p>	<p>FILE: L52</p> <p>SHEET L2 OF 2 SHEETS</p>