

GENERAL NOTES:

- ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A BOUNDARY & TOPOGRAPHIC SURVEY BY LANGSTON SURVEYING AND MAPPIN, LLC (850) 491-3880.
2. SURVEY DATUM - NAVD 88
3. AT THE PRE CONSTRUCTION MEETING THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE WHO SHALL BE CAPABLE OF BEING REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
4. ALL EXISTING UTILITIES MAY NOT HAVE BEEN LOCATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND PROVIDE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE, CALL (1-800-432-4770), 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. PIPE LENGTHS SHOWN INCLUDE THE MITERED END SECTIONS.
6. UNLESS OTHERWISE NOTED, ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND MULCHED.
7. UNLESS OTHERWISE INDICATED OR MODIFIED ON THE PLANS ALL ROADWAY AND DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010, SUPPLEMENTS AND SPECIAL PROVISIONS THERETO.
8. MINIMUM COMPACTION FOR FILL SECTIONS SHALL BE 95% MODIFIED PROCTOR. SOIL UNDER ALL STRUCTURES AND PAVED AREAS (MIN. 18" DEPTH) SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. ADDITIONALLY, SOIL SHOULD BE PLACED IN MAXIMUM 12 INCH LIFTS AND COMPACTED TO A MINIMUM SOIL DENSITY OF 95% MODIFIED PROCTOR. THE TOP 12 INCHES OF SUBGRADE SHOULD BE COMPACTED TO A MINIMUM SOIL DENSITY OF 98% MODIFIED PROCTOR. BORROW MATERIAL, IF REQUIRED, IS TO BE PROVIDED BY THE CONTRACTOR AND HAVE A MINIMUM LBR VALUE OF 40. TOPSOIL IS TO BE STRIPPED AND STOCKPILED. FOLLOWING FINAL GRADING, PLACE STOCKPILED TOPSOIL, AS NEEDED, OVER DISTURBED AREA.
9. WHERE REFERENCE IS MADE TO STANDARD INDEX OR DETAIL, THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, 2014, SHALL BE USED AS IF A PART OF THIS PLAN. FOR DESIGN STANDARD MODIFICATIONS CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:
<http://www.dot.state.fl.us/rddesign/>
10. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. SEDIMENT CONTROL DEVICES SHOWN ON THE PLANS ARE MINIMUM REQUIREMENTS. ADDITIONAL SEDIMENT CONTROLS MAY BE REQUIRED BY THE LOCAL INSPECTOR TO PREVENT SEDIMENTS FROM LEAVING THE SITE. THESE ADDITIONAL SEDIMENT CONTROLS ARE THE CONTRACTOR'S RESPONSIBILITY. ADDITIONALLY, STORMWATER RUNOFF IS TO BE CONTROLLED DURING CONSTRUCTION AS TO NOT DETRIMENTALLY AFFECT ADJACENT PROPERTIES.
11. SOIL COMPACTION, ASPHALT, AND BASE IN PLACE TESTING SHALL BE PERFORMED BY A STATE OF FLORIDA REGISTERED GEOTECHNICAL ENGINEER AT THE EXPENSE OF THE CONTRACTOR. DENSITIES FOR FILL MATERIAL, BASE MATERIAL, ASPHALT TESTING, AND OTHER AREAS WITH REQUIRED PERCENT OF COMPACTION SHALL BE TAKEN AT THE RATE OF ONE PER LIFT (6" MAXIMUM COMPACTED THICKNESS) PER 300 SQUARE YARDS. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE ENGINEER TO INSURE COMPLIANCE WITH THE ABOVE REQUIREMENTS.
12. THE CONTRACTOR SHALL PROVIDE A DESIGN MIX FOR THE ASPHALT INDICATED AND IT SHALL BE SIGNED BY A PROFESSIONAL ENGINEER CERTIFIED BY FDOT FOR DESIGN OF ASPHALT MIXES. THE MINIMUM COMPACTION FOR ASPHALT SHALL BE 95% OF THE MAXIMUM LABORATORY DENSITY. THE FINISHED SURFACE SHALL BE SMOOTH AND FREE OF TEARS. ANY NONCONFORMING SURFACE SHALL BE SAW CUT AT THE LIMITS OF NONCONFORMITY IN A STRAIGHT LINE AND REMOVED AND REPLACED.
13. THE CONTRACTOR SHALL SUBMIT A POST-CONSTRUCTION CERTIFICATION AND REPRODUCIBLE RECORD DRAWINGS TO THE ENGINEER PRIOR TO INSPECTION AND ACCEPTANCE. THE RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.
14. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCOVERY OF ANY ERRORS AND/OR OMISSIONS IN THE PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION. THE ENGINEER'S REVISIONS AND INTERPOLATIONS AS DEEMED NECESSARY REFLECTING THE ACTUAL SPIRIT AND INTENT OF THE PLANS AND SPECIFICATIONS.
15. THE FOLLOWING PERMITS/APPROVALS HAVE OR WILL BE OBTAINED FOR THIS PROJECT:
- A. LEON COUNTY ENVIRONMENTAL PERMIT
 - B. NFWFMD ENVIRONMENTAL RESOURCE PERMIT
 - C. NPDES PERMIT
16. UPON ROUGH GRADING (WITHIN 3 INCHES), THE CONTRACTOR SHALL STOP WORK TO ALLOW FOR INSTALLATION OF UTILITIES. THE CONTRACTOR SHALL CERTIFY THAT THE SITE IS WITHIN THIS TOLERANCE.
17. THE CONSTRUCTION SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD AND SEDIMENTS ONTO THE STREETS. ANY SEDIMENTS OR MUD SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS SHALL BE RECOVERED AND CLEANED IMMEDIATELY.
18. THE CONTRACTOR SHALL CONFINe ALL WORK WITHIN THE BOUNDARIES, EASEMENTS AND RIGHT OF WAY OWNED BY THE DEVELOPER, THE STATE OR THE COUNTY. NO TRESPASSING IS ALLOWED.
19. IF DURING CONSTRUCTION OR OPERATION OF THE STORMWATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDA AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS POSSIBLE 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.
20. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN THREE DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
21. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO COORDINATE WITH THE OWNER TO SUBMIT THE CONSTRUCTION COMMENCEMENT NOTICE FORM (62-346.900(3)) TO THE NFWFMD. ALSO, THE AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL FORM (62-346.900(4)) SHALL BE SUBMITTED TO THE NFWFMD WITHIN 30 DAYS AFTER WORK IS COMPLETED.
22. MAINTENANCE OF TRAFFIC FOR CONSTRUCTION OF DRIVEWAYS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 600'S
23. CONTRACTOR IS REQUIRED TO REVIEW THE COMPLETE NFWFMD PERMIT PRIOR TO CONSTRUCTION COMMENCEMENT.
24. A COPY OF THE NFWFMD PERMIT IS TO BE KEPT ON-SITE
25. AN 8.5"X 11" WEATHER RESISTANT SIGN, INCLUDING THE NFWFMD PERMIT NUMBER SHALL BE PLACED ON THE PROPERTY FACING THE ROAD.

WILLIAM GLEN BROWN
2802 TOPAZ WAY
TALLAHASSEE, FL 32309
(850) 528-6293

SHEET NO.	SHEET DESCRIPTION	DATE	REVISION
1	COVER SHEET	2/19/14	
2	BOUNDARY & TOPOGRAPHIC SURVEY	2/19/14	
3	GRADING PLAN WITH TREE SURVEY	2/19/14	
4	SITE PLAN	2/19/14	
5	DRAINAGE AND UTILITY PLAN	2/19/14	
6	TREE REMOVAL, DEMOLITION & SWPP PLAN	2/19/14	
7	LANDSCAPE PLAN	2/19/14	
8	IRRIGATION PLAN	2/19/14	

- 1.) PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE OWNER, LEON COUNTY INSPECTOR AND ENGINEER OF RECORD.
- 2.) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION THE OWNER IS REQUIRED TO SUBMIT A FULLY EXECUTED CONSTRUCTION COMMENCEMENT NOTICE FORM 62-346.900(3) TO THE NFWFWD.
- 3.) INSTALL MAINTENANCE OF TRAFFIC DEVICES PER FDOT INDEX #6003.
- 4.) INSTALL EROSION CONTROL DEVICES THEN CLEAR AND GRUB THE SITE.
- 5.) ROUGH GRADE THE SITE AND CONSTRUCT THE SWMF AS SHOWN ON THE PLANS. INSTALL ADDITIONAL EROSION CONTROLS AS NECESSARY TO MAINTAIN THE IMPROVEMENTS AND PREVENT SEDIMENTS FROM WASHING INTO THE DETENTION POND AND/OR OFF-SITE.
- 6.) INSTALL ON-SITE AND OFF-SITE UTILITIES INCLUDING STORMWATER PIPES, INLETS, OUTFALL STRUCTURES, ETC.
- 7.) COORDINATE WITH UTILITY PROVIDERS REGARDING INSTALLATION OF SERVICE LINES, CONDUIT, AND SERVICES.
- 8.) COORDINATE WITH THE OWNER AND BUILDING CONTRACTOR ON CONSTRUCTION OF THE BUILDING PAD AND BUILDING.
- 9.) CONSTRUCT THE CURB AND GUTTER, BASE, FINE GRADE, AND STABILIZE (SOD) THE DISTURBED AREAS.
- 10.) CONSTRUCT THE ASPHALT PAVEMENT.
- 11.) CONSTRUCT LANDSCAPING PER LANDSCAPE PLAN. ALL REMAINING DISTURBED AREAS, NOT OTHERWISE NOTED TO BE STABILIZED, SHALL BE SEEDED, MULCHED AND FERTILIZED.

BAHIA (PENSACOLA OR ARGENTINE)	30 POUNDS/ACRE
BERMUDA	30 POUNDS/ACRE
TEMPORARY SEED	30 POUNDS/ACRE

FROM APRIL THROUGH SEPTEMBER, USE BROWN-TOP OR JAPANESE MILLET AND FROM OCTOBER
THROUGH MARCH, ANNUAL RYE GRASS

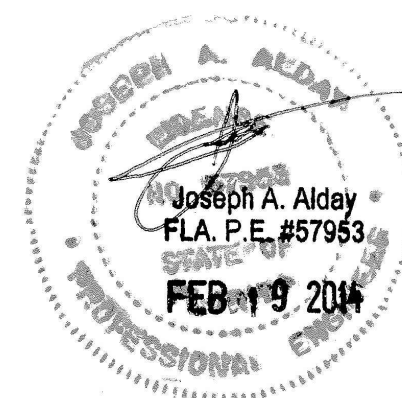
AFTER SEEDING, APPROXIMATELY TWO INCHES (LOOSE THICKNESS) OF MULCH MATERIAL SHALL BE APPLIED OVER THE SEEDED AREA AND CUT INTO THE SOIL.

- 12.) CONSTRUCT STRIPING AND SIGNAGE.
- 13.) COORDINATE FINAL CLOSURE OF THE PROJECT WITH OWNER, ENGINEER OF RECORD & LEON COUNTY INSPECTOR. CONTRACTOR TO COORDINATE POST CONSTRUCTION CERTIFICATION AND LEON COUNTY OPERATING PERMIT PRIOR TO FINAL INSPECTION MEETING WITH LEON COUNTY INSPECTOR.
- 14.) AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL FORM 62-346-90(4) SHALL BE SUBMITTED TO THE NWFWD 30 DAYS AFTER WORK IS COMPLETED.

<h1 style="margin: 0;">A P P R O V A L</h1> <p style="margin: 0;">TYPE "A" SITE AND DEVELOPMENT PLAN</p>
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>LEON COUNTY GROWTH AND ENVIRONMENTAL MANAGEMENT</p> </div> <div style="width: 35%; text-align: right;"> <p>NAME AND TITLE _____</p> <p>DATE _____</p> </div> </div>

ATTENTION IS DIRECTED TO THE FACT
THAT THESE PLANS MAY HAVE BEEN
ALTERED IN SIZE BY REPRODUCTION.
THIS MUST BE CONSIDERED WHEN
OBTAINING SCALED DATA.

ENGINEER OF RECORD: JOSEPH ALDAY, PE
FLA. LICENSE # 57953



LOCATION MAP (SCALE: 1" = 5,000')

FEBRUARY 19, 2013

PLANS PREPARED BY:



2860 HWY 71 NORTH, SUITE B
MARIANNA, FLORIDA 32446

PHONE (850) 526-2040 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

1 inch = 30 ft.

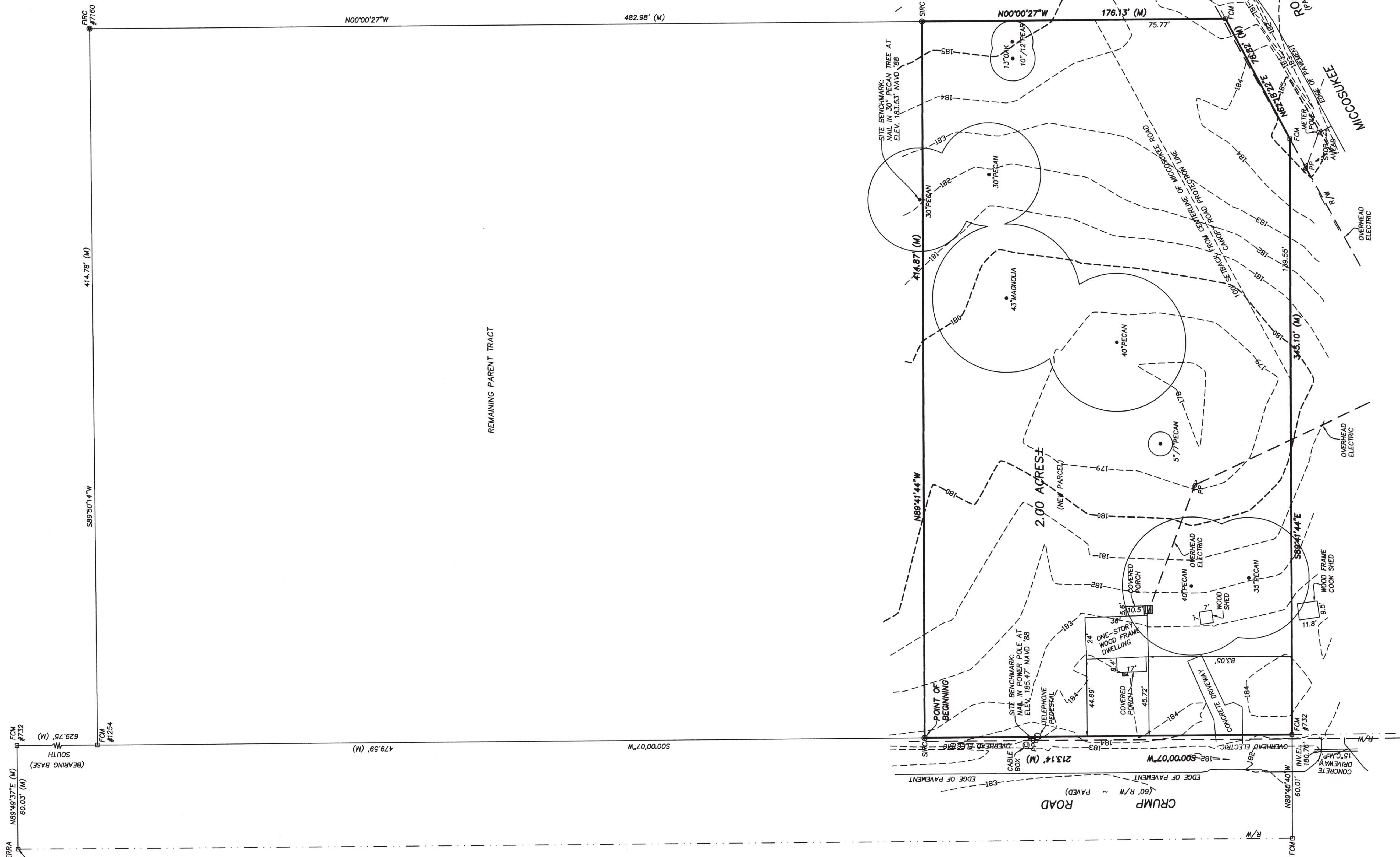
POINT OF COMMENCEMENT—
THE INTERSECTION OF THE NORTHERLY
BOUNDARY OF SECTION 4, TOWNSHIP 1
NORTH, RANGE 2 EAST, LEON COUNTY,
FLORIDA, WITH THE WESTERLY RIGHT OF
WAY BOUNDARY OF CRUMP ROAD

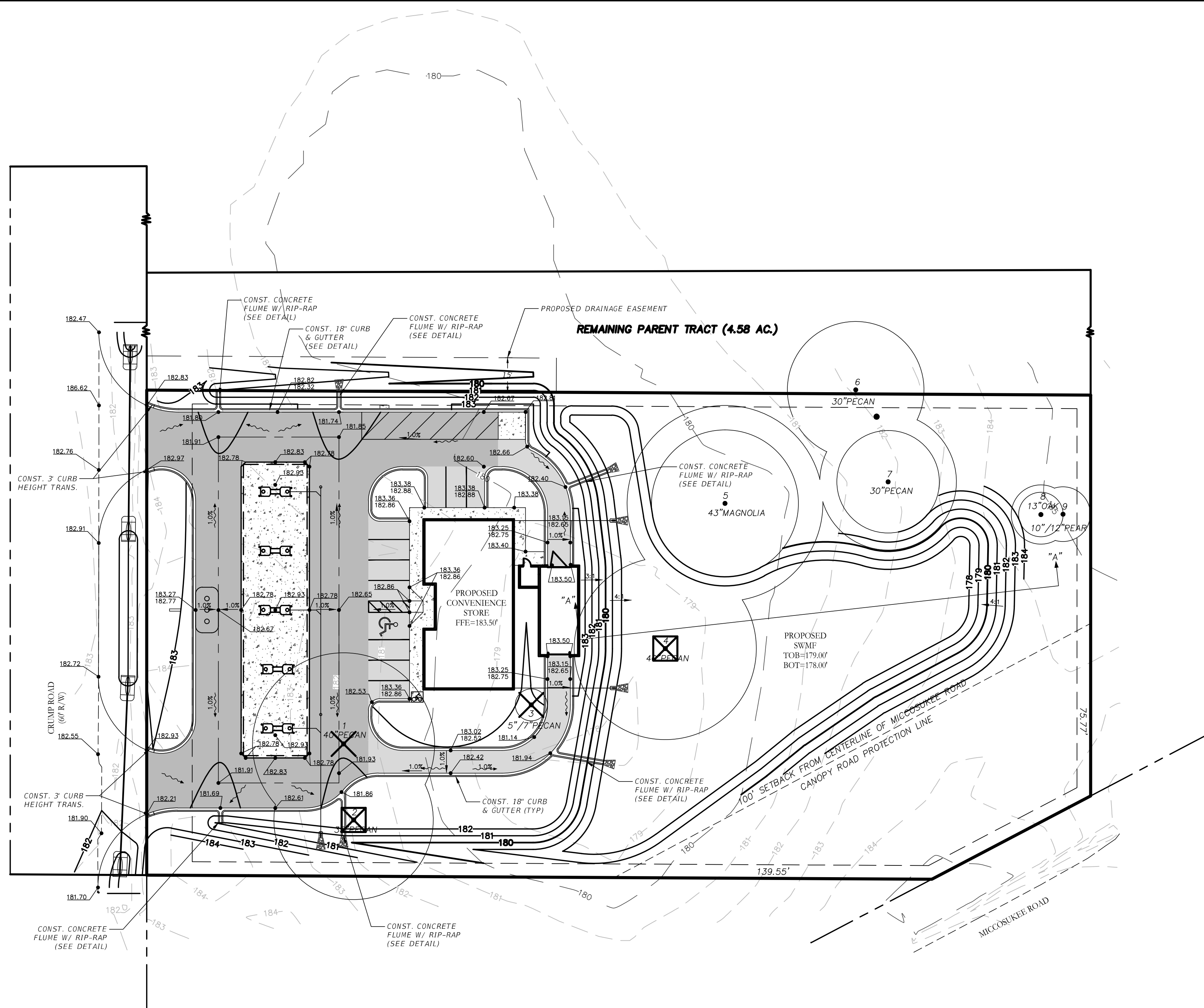
THOMAS J. LARSON
Professional Surveyor and Mapper
Florida Certificate No: 6468
LB NO. 7793

R/W	RIGHT OF WAY
M	MEASURED
D	DEED CALL
FIRC	FOUND 5/8" IRON ROD & CAP
FIR	FOUND IRON ROD
FCM	FOUND 4" x 4" CONCRETE MONUMENT
FIP	FOUND IRON PIPE
SIRC	SET 5/8" IRON ROD & CAP #6468
PP	POWER POLE
^^	NOT TO SCALE
Δ	POINT NOT SET OR FOUND

1. SURVEY SOURCE: Deed of record and a field survey performed by the undersigned surveyor.
2. BEARING REFERENCE: Easterly right of way boundary of Crump Road being South as per deed of record.
3. NO IMPROVEMENTS have been located in this survey other than shown hereon.
4. There are NO VISIBLE ENCROACHMENTS other than those shown hereon.
5. This survey is dependent upon EXISTING MONUMENTATION.
6. Not valid without the signature and the original raised seal of a Florida licensed surveyor and mopper.
7. See attached sheet for legal description.
8. ELEVATIONS shown hereon were established using NAVD '86.

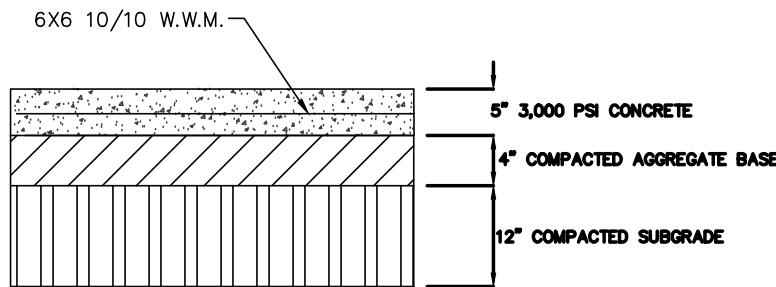
67 CHELSEA DRIVE • CRAWFORDVILLE, FL 32327 • (850)		LB NO. 7793	
DATE: 10/31/13	DRAWN BY: T.L.	N.B. 09 pg 77	COUNT
FILE: 10-113.DWG	DATE OF LAST FIELD WORK: 10/08/13		JOB NUMBER: 10-



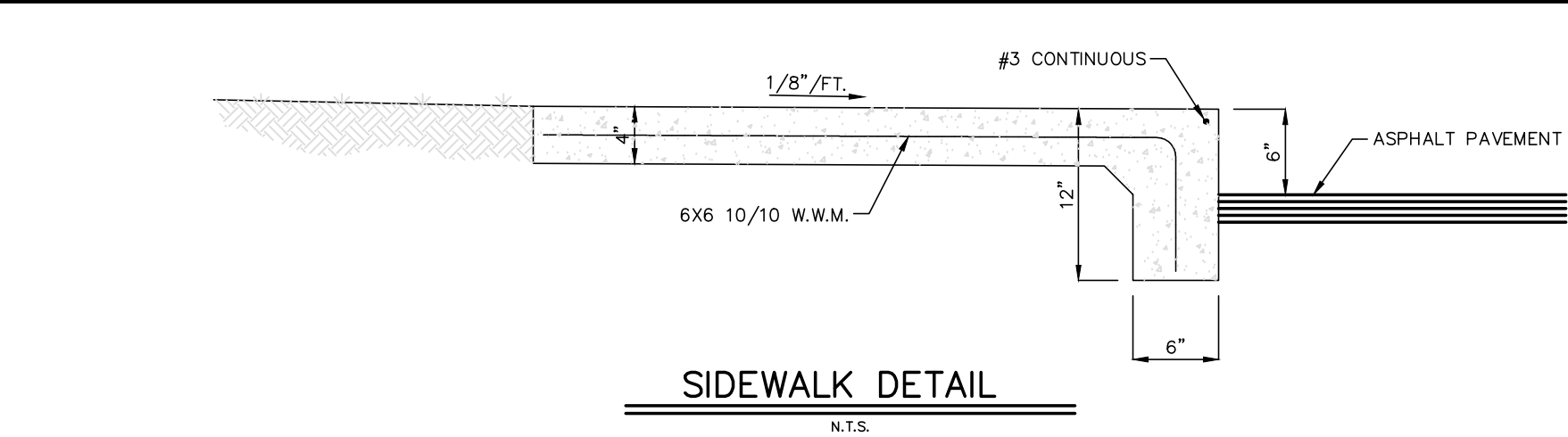


TREE SURVEY		
TREE #	COMMON NAME	SIZE (DBH)
1	PECAN	40"
2	PECAN	35"
3	TWIN PECAN	57/7"
4	PECAN	40"
5	MAGNOLIA	43"
6	PECAN	30"
7	PECAN	30"
8	OAK	13"
9	TWIN PEAR	10"/12"

- NOTES:
1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT INDEX 602 & 603
 2. FILL SHOULD CONSIST OF LOW PLASTICITY, LOW PERMEABLE ENGINEERED FILL BETWEEN 12 AND 25 PERCENT FINES AND A PLASTICITY INDEX OF 15 OR LESS.
 3. ALL PROPOSED BERMS AND BACKSLOPES MUST BE CONSTRUCTED WITH A MINIMUM OF A 3:1 SLOPE AND MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.

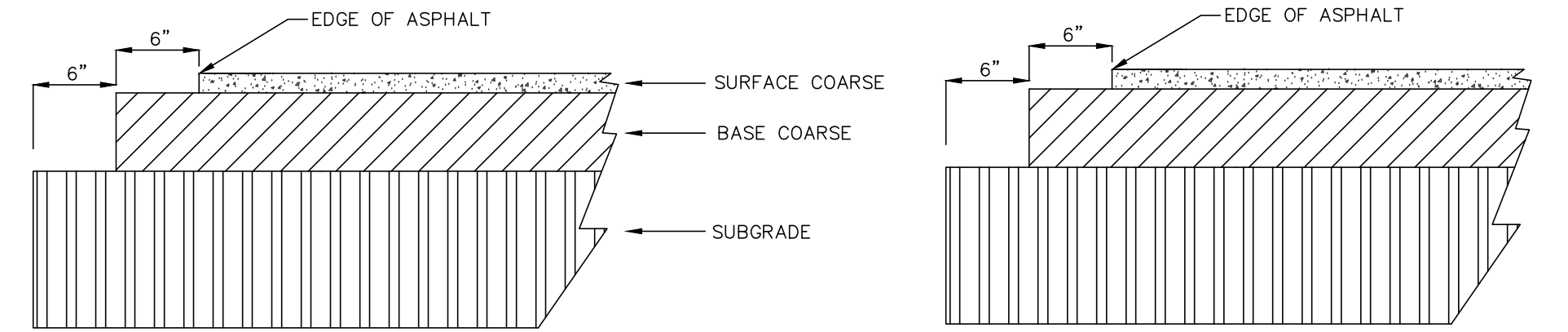


CONCRETE DELIVERY & DUMPSTER PAD DETAIL



SIDEWALK DETAIL

- INDICATES HEAVY DUTY PAVEMENT (SEE DETAIL)
- INDICATES STANDARD DUTY PAVEMENT (SEE DETAIL)



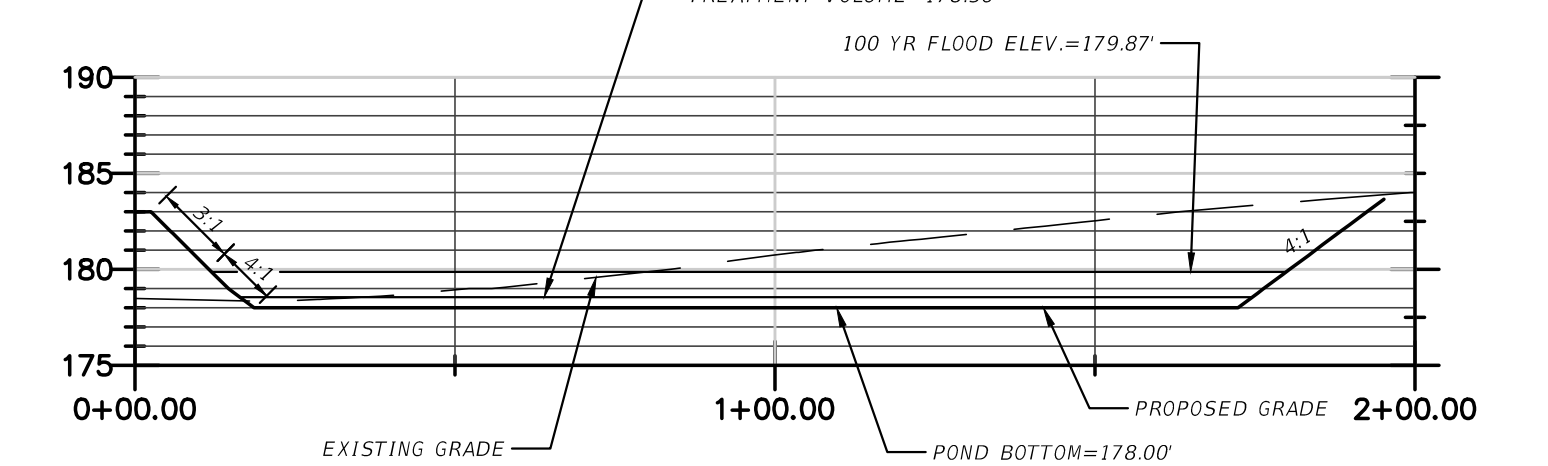
- SURFACE COURSE-- TYPE SP-9.5 ASPHALTIC CONCRETE (2" MIN. COMPACTED THICKNESS)
- BASE COURSE-- LIMEROCK COMPACTED THICKNESS 6" MIN. LBR 100 (COMPACT TO 98% MODIFIED PROCTOR)
- SUBGRADE-- 12" MIN. COMPACTED THICKNESS WITH TYPE B STABILIZATION. MIN. LBR 40 (COMPACTED TO 98% MODIFIED PROCTOR)
- NOTE: WHEN ABUTTING TO CURB AND GUTTER SUBGRADE TO EXTEND BELOW CURB FOR FULL WIDTH OF BASE AND ASPHALT TO ABUT CURB AND GUTTER.

STANDARD DUTY PAVEMENT DETAIL

HEAVY DUTY PAVEMENT DETAIL

TOP EL. = 180.00'
BOTTOM EL. = 178.00'

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=10'



SWMF
CROSS SECTION "A" - "A"

- NOTES:
1. HEAVY EQUIPMENT SHALL BE KEPT OUT OF THE STORMWATER MANAGEMENT FACILITY (SWMF) TO PREVENT UNNECESSARY COMPACTION OF THE SOIL.
 2. UPON COMPLETION OF THE SITE WORK AND UPON STABILIZATION OF THE ENTIRE SITE, THE CONTRACTOR SHALL REMOVE ALL SEDIMENTS FROM THE SIDES AND BOTTOM OF THE HOLDING POND. THIS SEDIMENT REMOVAL SHALL INCLUDE THE EXISTING SOIL TO A DEPTH TO WHICH THE SEDIMENT HAS MIGRATED TO ASSURE THAT THE NATURAL SOIL PERCOLATION IS REESTABLISHED. THE POND BOTTOM COMPACTION IS CRITICAL TO THE PERCOLATION OF THE NATURAL SOILS. THE CONTRACTOR SHALL UTILIZE APPROPRIATE EQUIPMENT TO MAINTAIN NATURAL SOIL COMPACTION OR SHALL REESTABLISH AT THE PROJECT CLOSE-OUT. RE-ESTABLISHMENT WILL REQUIRE DISKING, UNDERCUT REMOVAL AND BACKFILLING WITH SAND, BOTTOM FLOWING, AND/OR OTHER METHODS AS NECESSARY.
 3. SWMF SIDE SLOPES TO BE STABILIZED WITH SOD WITHIN 3 DAYS OF FINAL GRADE.

ALDAY-HOWELL ENGINEERING, INC.
2860 HWY 71 NORTH, SUITE B
MARIANNA, FL 32446
PHONE (850) 526-2040 * FAX (850) 526-4740
E-MAIL: info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
WILLIAM GLEN BROWN

PROJECT:
**CRUMP ROAD
CONVENIENCE STORE**

SHEET TITLE:
GRADING WITH TREE SURVEY

JOB NO. 13-034
DRAWN BY ECW
CHECKED BY JAA
DATE 2/19/14
SHEET 3

NOT VALID UNLESS EMBOSSED

PROJECT DATA

PARCEL I.D. #: 1204200180000
PROJECT NAME: CRUMP ROAD - CONVENIENCE STORE
OWNER/APPLICANT: WILLIAM GLEN BROWN
2802 TOPAZ WAY
TALLAHASSEE, FL 32309
PLANS PREPARED BY: ALDAY-HOWELL ENGINEERING, INC.
2860 HWY 71, NORTH, SUITE B
MARIANNA, FL 32446
PROPOSED BUILD OUT DATE: ONE (1) YEAR FROM ISSUANCE OF PERMITS

SITE DATA

ZONING: RURAL
FUTURE LAND USE: RURAL
EXISTING USE: RURAL
PROPOSED USE: CONVENIENCE STORE
PROPOSED BUILDING AREA: 2,904 SF PER FLOOR
PROPOSED BUILDING HEIGHT: 35 FEET
FLOOR AREA RATIO: 0.03
REQUIRED SETBACKS:
BUILDING
FRONT - 30'
SIDE - 25'
REAR - 50'
PARKING
FRONT - 40'
SIDE - 25'
REAR - 40'

REQUIRED SPACES: 10 STANDARD & 1 HANDICAP
PROVIDED SPACES: 10 STANDARD & 1 HANDICAP

STATISTICAL INFORMATION

DESCRIPTION	AREA (SF)	AREA (AC)	% COVERAGE
TOTAL ACREAGE OF SITE	87,134	2.00	100
EXISTING IMPERVIOUS AREA	1,830	0.04	2
PROPOSED BUILDING FOOT PRINT	2,904	0.07	3
VEHICULAR USE AREA	15,668	0.36	18
SIDEWALK AND MISC. IMPERVIOUS	6,388	0.15	7
CARWASH IMPERVIOUS	807	0.02	1
TOTAL IMPERVIOUS (POST) (NOT INCLUDING STORMWATER FACILITY)	26,380	0.61	30
TOTAL PERVIOUS (POST) (INCLUDING STORMWATER FACILITY)	61,337	1.41	70

Please incorporate and prominently display the following contractor notice on all site plans and environmental plans. This notice is provided to the contractor and owner to advise them of their ultimate responsibility of compliance with Florida Accessibility Code (aka Handicap Code).

CONTRACTOR NOTICE 2012 (as revised July 2012)

The Contractor & Owner will be held accountable during construction for all site improvements. Compliance with Florida Statutes 553.5041 (F.S.), and the 2010 Florida Accessibility Code for Building Construction (FACBC), is mandatory. If incorrect at final inspection, contractor will be required to modify construction to comply with F.S. and FACBC. The following items take precedence and supersede other site details on drawings:

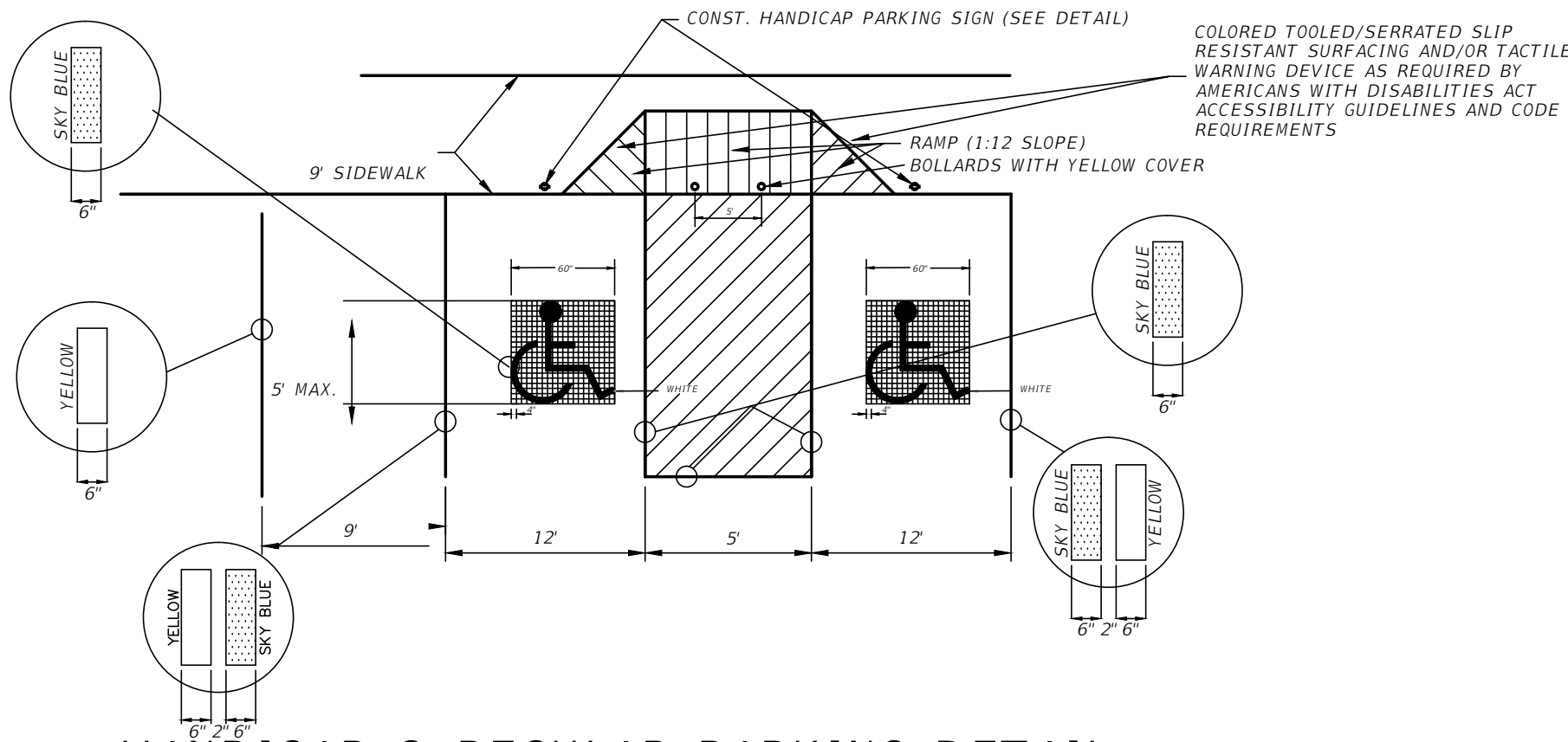
- Accessible parking spaces shall be located on an accessible route no less than 44" wide so that users will not be compelled to walk or wheel behind parked vehicles. §208.3 and §502.3, FACBC and F.S. 553.5041.
- Accessible (H/C) parking spaces and access aisles serving a particular building shall be located on the shortest accessible route from the accessible (H/C) parking to an accessible entrance. §208.3.1 FACBC, and F.S. 553.5041.
- Accessible parking spaces shall be 12' wide outlined with blue paint. §502.2 FACBC.
- Access aisles required adjacent to parking spaces shall be 5' wide with diagonal striping. §502.2 & §502.3, FACBC.
- Parking spaces and access aisles shall be level (not to exceed 1/48) on a stable, firm & slip resistant surface. Re: §502.1 and §502.4 FACBC.
- Accessible Parking signs shall be FDOT approved and shall read "PARKING BY DISABLED PERMIT ONLY" and shall indicate a \$250 fine for illegal use. Install signs a minimum 60" (inches) from the ground to the bottom of the sign(s). Re: §502.6.1 and F.S. 553.5041.
- Curb ramp slopes shall not exceed 1:12 slope; the counter slope of adjacent road surfaces & gutters shall not exceed 1:20 slope. Curb ramp side slopes shall not exceed 1:10 slope. Curb ramps shall not encroach parking spaces or access aisles. Re: §406.1 FACBC.
- All ramps with a rise greater than 6" shall provide edge protection complying with §405.9.1 FACBC or §405.9.2 FACBC. Ramps shall have 60" min level landings at the top & bottom. Re: §405.7 FACBC.
- All ramps with a rise greater than 6" shall have handrails on both sides with 12" horizontal extensions at the top & bottom of the ramp. Re: §505.10 FACBC.
- Accessible route to "main entry" from an accessible parking space shall not exceed 1:20 slope (unless ramps and handrails are provided) with cross slope not in excess of 1:48. Re: §206 FACBC.
- Accessible route to "public way" shall not exceed 1:20 slope (unless ramps with handrails are provided). The maximum cross slope of the accessible route is 1:48. Re: §206 FACBC.
- *Exception: An accessible route shall not be required between accessible buildings, accessible facilities, accessible elements, and accessible spaces if the only means of access between them is a vehicular way not providing pedestrian access. Re: §206.2.2 FACBC.

Revised July 17, 2012

HANDICAP PARKING SIGN DETAIL

N.T.S.

NOTE: PAINTED STANDARD PARKING STALL AND ISLAND STRIPE COLOR SHALL BE YELLOW AND COLOR FOR H.C. ACCESSIBLE PARKING SHALL BE SKY BLUE. BOLLARDS AND CONCRETE PARKING STOPS (WHEN USED) SHALL BE PAINTED YELLOW. PAINT SHALL BE A REFLECTIVE TYPE.



HANDICAP & REGULAR PARKING DETAIL

N.T.S.

PAVEMENT MARKINGS/STRIPING NOTES:

- WAIT MINIMUM OF 30 DAYS AFTER ASPHALT CONCRETE PLACEMENT TO PLACE PERMANENT MARKING.
- TEMPORARY STRIPING TO BE PAINTED STOP BAR ONLY.
- ALL SIGNAGE AND STRIPING IS TO BE PER MUTCD STANDARDS.
- ALL STRIPING IN FDOT ROW TO BE THERMOPLASTIC.

NOTES:

- ALL PAVEMENT MARKINGS TO BE PER MUTCD STANDARDS.
- ANY PROPOSED SIGNAGE MUST MEET THE CRITERIA IN ARTICLE IX, LEON COUNTY LAND DEVELOPMENT CODE.
- THE HANDICAP PARKING SHALL MEET ALL ADA AND FDOT REQUIREMENTS.
- NO HAZARDOUS OR TOXIC MATERIALS OR WASTETO BE USED OR PRODUCED ON SITE OTHER THAN THE USE OF PETROLEUM FOR FUELING PURPOSES.
- NO RADIOACTIVE MATERIALS OR WASTES, EXPLOSIVES, OR FLAMMABLE MATERIALS TO BE USED OR PRODUCED ON SITE OTHER THAN THE USE OF PETROLEUM FOR FUELING PURPOSES.
- ANY HAZARDOUS MATERIALS THAT MAY BE FOUND ON-SITE SHALL NOT BE MOVED OFF SITE WITHOUT PROPER PERMITTING.
- NO MANUFACTURING, PRODUCTION, PROCESSING AND OTHER INDUSTRIAL ACTIVITIES ARE ALLOWED ON SITE.

WAVE BICYCLE RACK DETAIL

NTS

SIGHT DISTANCE, MARKING & SIGNAGE DETAIL (FOR INTERSECTION WITH WILLIAMS LANDING ROAD)

N.T.S.

Notes:

- Sight distance per F.D.O.T. index 546
- All markings to be thermoplastic and per F.D.O.T. specifications.
- Wait minimum of 30 days after asphalt concrete placement to place permanent marking.
- Temporary striping to be painted stop bar only.
- All signage and striping is to be per MUTCD standards.

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FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		INITIALS	DATE
DESCRIPTION			

CLIENT:

WILLIAM GLEN BROWN

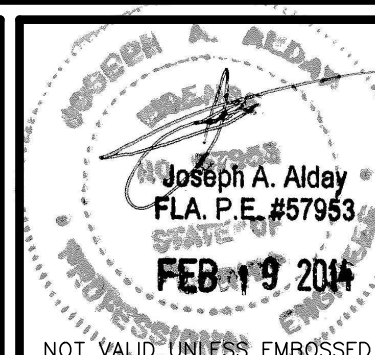
PROJECT:

CRUMP ROAD
CONVENIENCE STORE

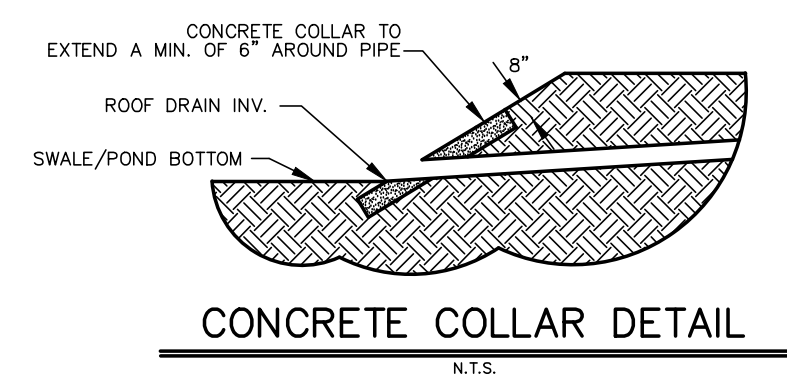
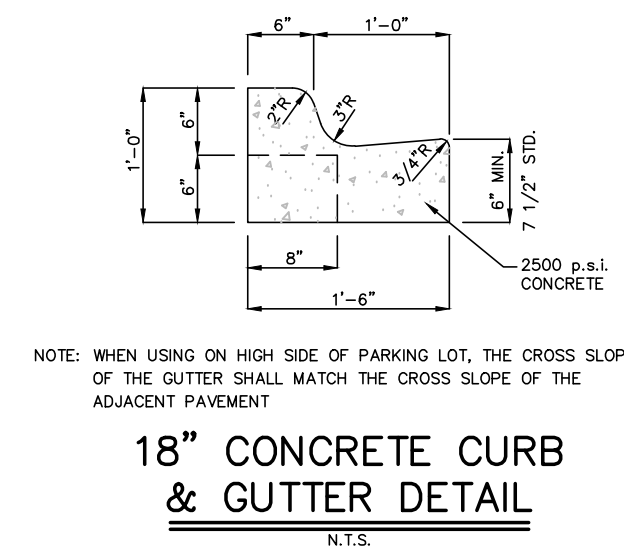
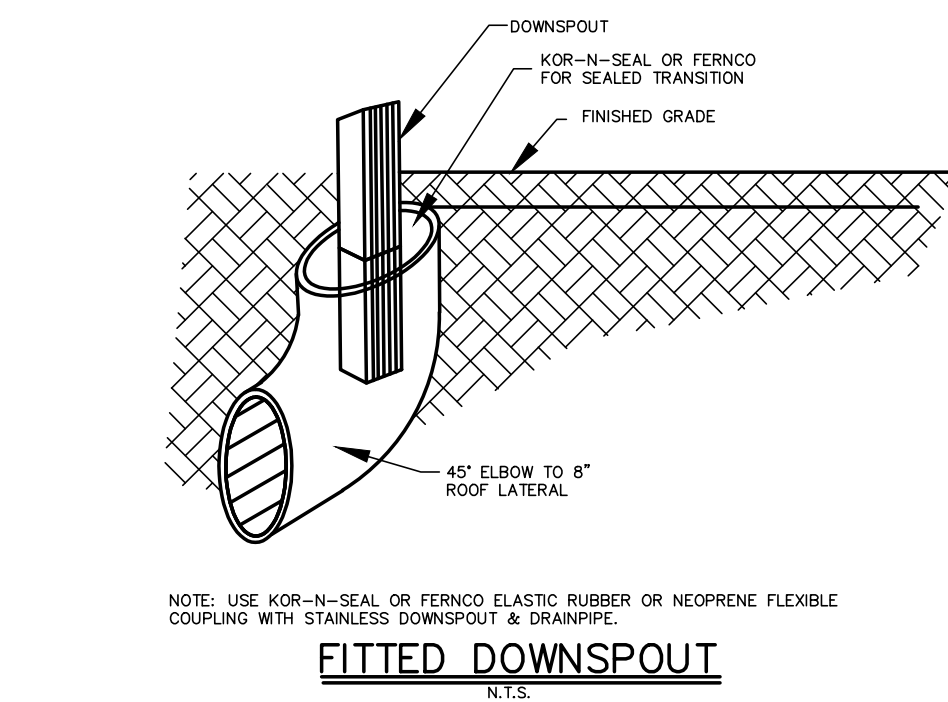
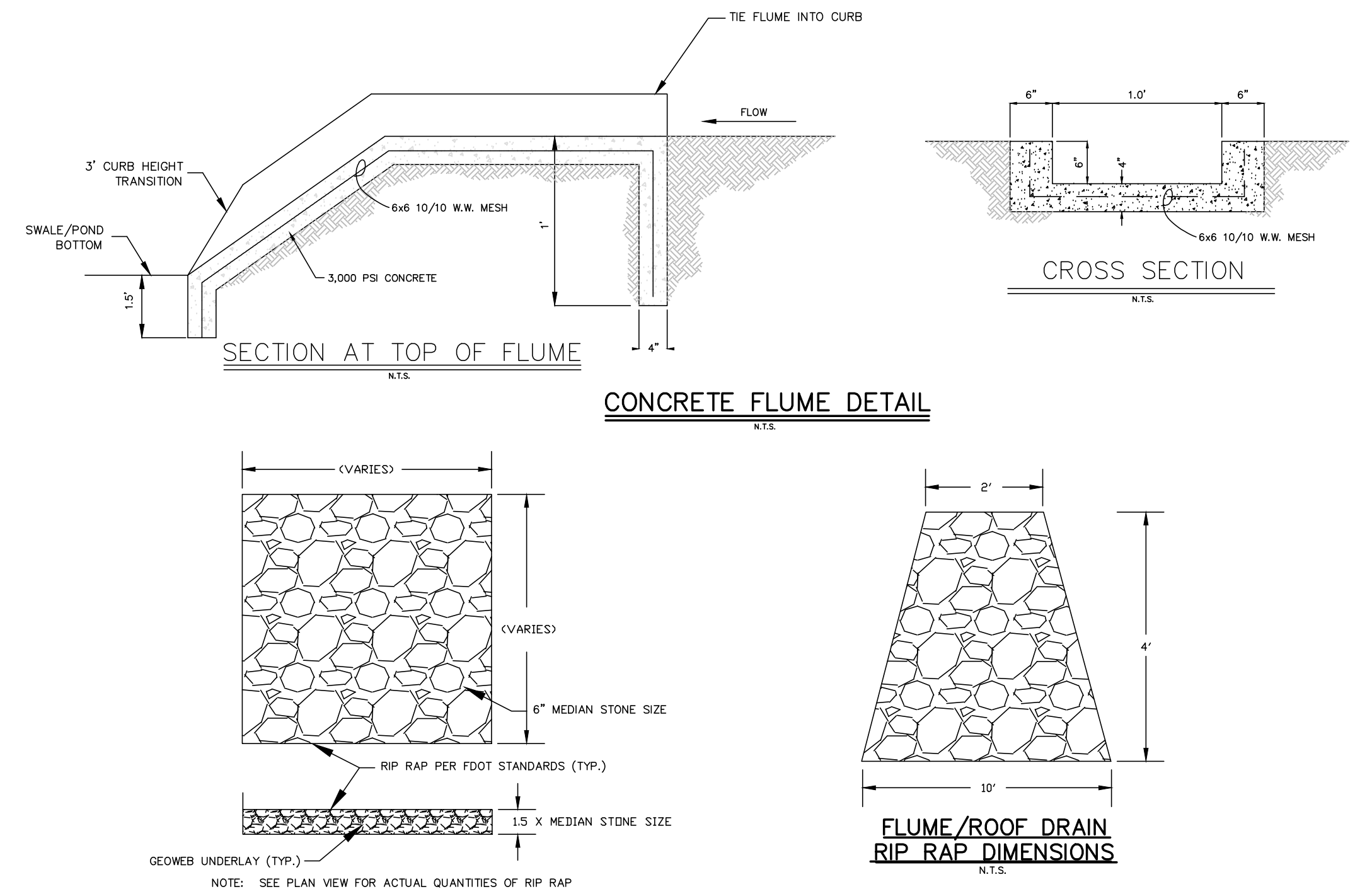
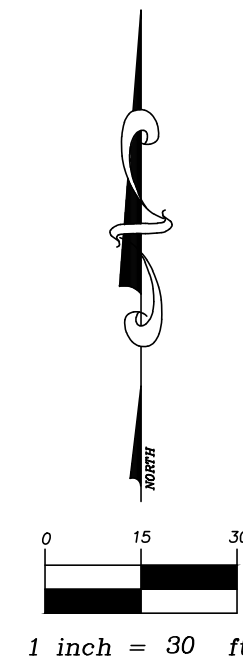
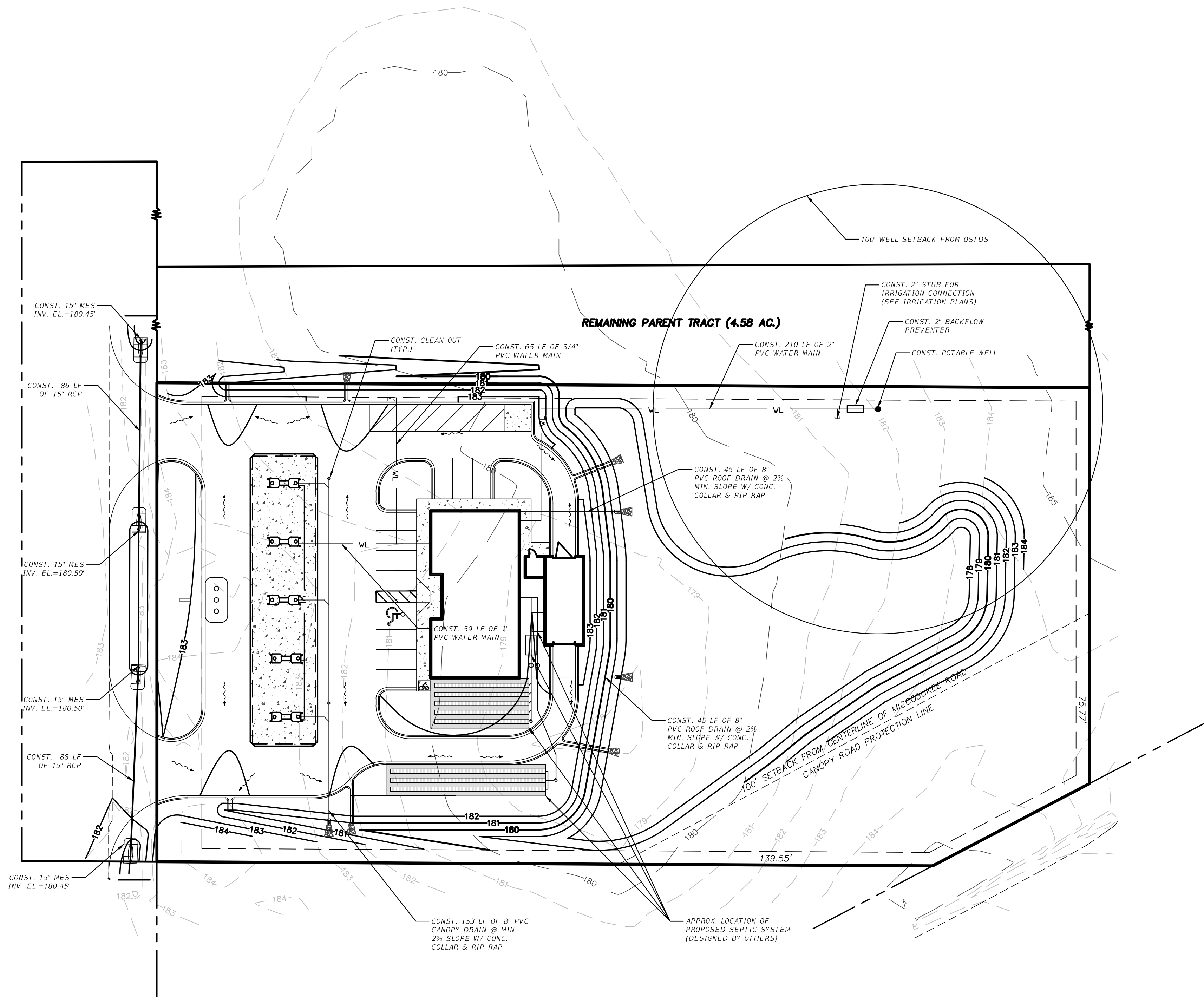
SHEET TITLE:

SITE PLAN

1" = 10'
IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.



JOB NO. 13-034
DRAWN BY ECW
CHECKED BY JAA
DATE 2/19/14
SHEET 4



Alday-Howell Engineering, Inc.
 2860 HWY 71 NORTH, SUITE B
 MARIANNA, FL 32446
 PHONE (850) 526-2040 * FAX (850) 526-4740
 E-MAIL: info@aldayhowell.com
 FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
WILLIAM GLEN BROWN

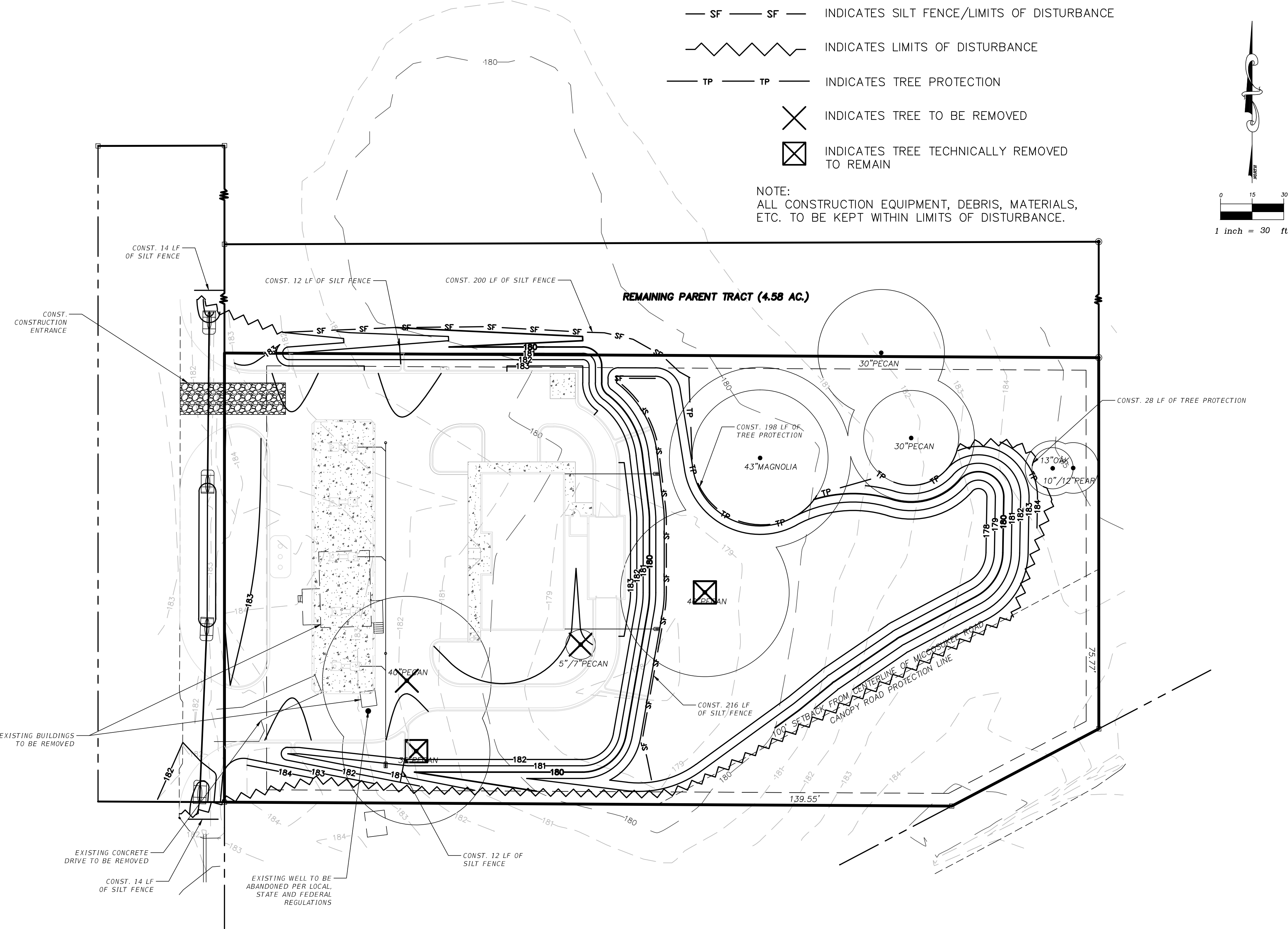
PROJECT:
**CRUMP ROAD
 CONVENIENCE STORE**

SHEET TITLE:
DRAINAGE AND UTILITY PLAN

IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

JOB NO. 13-034
 DRAWN BY ECW
 CHECKED BY JAA
 DATE 2/19/14
 SHEET 5

S:\Projects\13-034 Crump Rd Store\dwg\13-034 Crump Road.dwg, 05-LIT, Item, Feb 19, 2014, 4:19:02pm



EROSION AND SEDIMENT CONTROLS NOTES

- 1) ESC'S ARE TO BE CONSTRUCTED IN ALL AREAS WHERE POTENTIAL RUNOFF DURING CONSTRUCTION WILL DISCHARGE OFF-SITE.
- 2) ESC'S INCLUDE SILT FENCE, HAY BALES, SILT BARRIERS, ETC... AND SHALL BE PLACED AS NECESSARY IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR SEDIMENT BARRIER.
- 3) ESC'S MAY BE REQUIRED AROUND INLETS UNTIL SITE IS STABILIZED.
- 4) DURING CONSTRUCTION ALL SEDIMENT CONTROLS, STABILIZATION, STORMWATER CONTROLS, ETC... ARE THE RESPONSIBILITY OF THE CONTRACTOR.

DESCRIPTION OF SITE & CONSTRUCTION ACTIVITIES

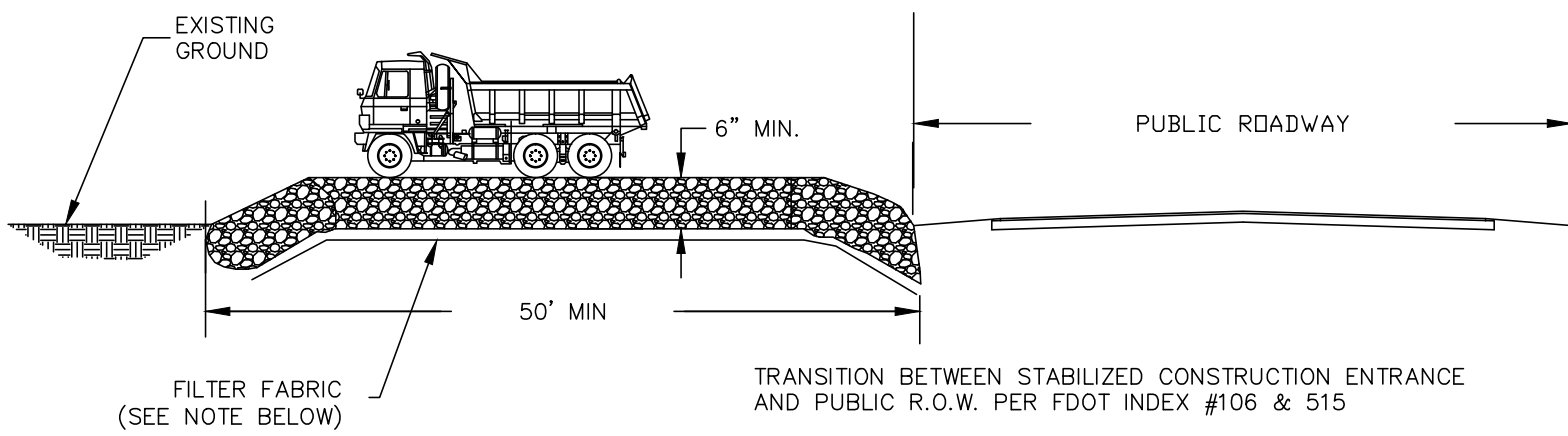
PROJECT SITE:	2.00 +/- ACRES
PROJECT LOCATION:	NORTHEAST CORNER OF THE INTERSECTION OF MICCOSUKEE ROAD AND CRUMP ROAD, IN LEON COUNTY, FLORIDA.
PROJECT DESCRIPTION:	2,904 COMMERCIAL BUILDING AND ASSOCIATED PARKING, DRIVEWAY AND STORMWATER IMPROVEMENTS
DESCRIPTION OF CONSTRUCTION ACTIVITIES:	COMMERCIAL CONSTRUCTION, PAVED STREET & PARKING AREA, CONCRETE SIDEWALKS, AND STORMWATER MANAGEMENT SYSTEMS.
DISCHARGE OF STORMWATER:	STORMWATER RUNOFF GENERATED ON SITE IS COLLECTED AND CONVEYED TO THE STORMWATER RETENTION POND FOR TREATMENT. NO DISCHARGE POST-DEVELOPMENT.
RECEIVING WATERS:	PRE-DEVELOPMENT (ST. MARKS WATERSHED), POST-DEVELOPMENT (N/A)
ENVIRONMENTALLY SENSITIVE AREAS:	N/A

NPDES REQUIREMENTS

INSPECTION:	CONTRACTOR SHALL HAVE A QUALIFIED INSPECTOR INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 0.5" OR MORE RAINFALL EVENT.
REPORT:	THE SEDIMENT AND EROSION CONTROL INSPECTOR SHALL ALSO KEEP A MAINTENANCE RECORD OF INSPECTION DATES AND TIMES, RESULTS OF INSPECTION, ANY REPAIRS THAT WERE NECESSARY, AND ANY ADDITIONAL MEASURES THAT HAVE BEEN ADDED. THE SWPPP ALONG WITH THE MAINTENANCE RECORD SHALL BE KEPT ON-SITE FOR INSPECTION BY FDEP AND OTHER APPROPRIATE ENTITIES AT ALL TIMES.
DOCUMENTATION:	ALL DOCUMENTS REQUIRED TO OBTAIN THE NPDES PERMIT INCLUDING THE RECORD OF MAINTENANCE AND REPAIRS AS WELL AS THE SWPPP, SHALL BE KEPT A MINIMUM OF 4 YEARS AFTER FINAL STABILIZATION IS ACHIEVED AND CONTROL DEVICES HAVE BEEN REMOVED.

STORMWATER EROSION CONTROL OFFICER:
WILLIAM GLEN BROWN
2802 TOPAZ WAY
TALLAHASSEE, FL 32309
(850) 528-6293

TREE DEBIT / CREDIT					
TREE #	COMMON NAME	SIZE (DBH)	PRESERVED MITIGATED REMOVED	DEBIT	CREDIT
1	PECAN	40"	TECHNICAL	20	
2	PECAN	35"	REMOVED		
3	TWIN PECAN	5"/7"	REMOVED		6
4	PECAN	40"	TECHNICAL		
5	MAGNOLIA	43"	PRESERVED		24
6	PECAN	30"	PRESERVED		10
7	PECAN	30"	PRESERVED		10
8	OAK	13"	PRESERVED		6
9	TWIN PEAR	10"/12"	PRESERVED		4
TOTAL				20	60

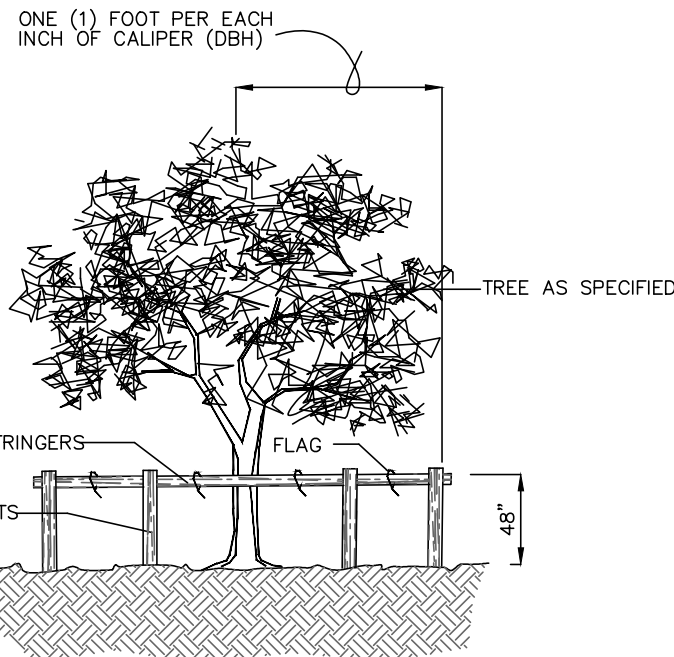


* A CRUSHED LIMESTONE, SOIL TRACKING PREVENTION DEVICE SHALL BE INSTALLED AT THE CONSTRUCTION ENTRANCE TO THE SITE TO PREVENT OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS. DEVICE SHALL BE 15FT. X 50FT. X 6IN. (MINIMUM), CRUSHED LIMESTONE 1/2 INCHES IN DIAMETER. DEVICE SHALL BE UNDERLAIN WITH A FDOT CLASS 3 SYNTHETIC FILTER FABRIC AND APPROPRIATELY MAINTAINED PER FDOT INDEX #106.

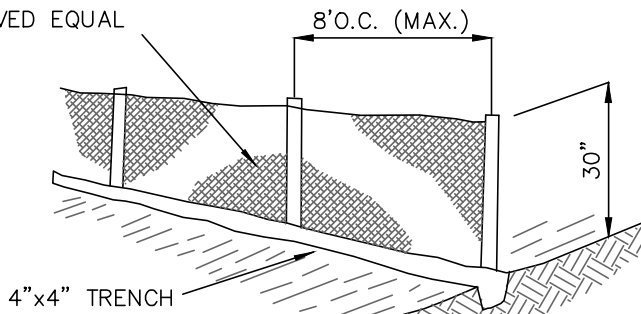
CONSTRUCTION ENTRANCE DETAIL

N.T.S.

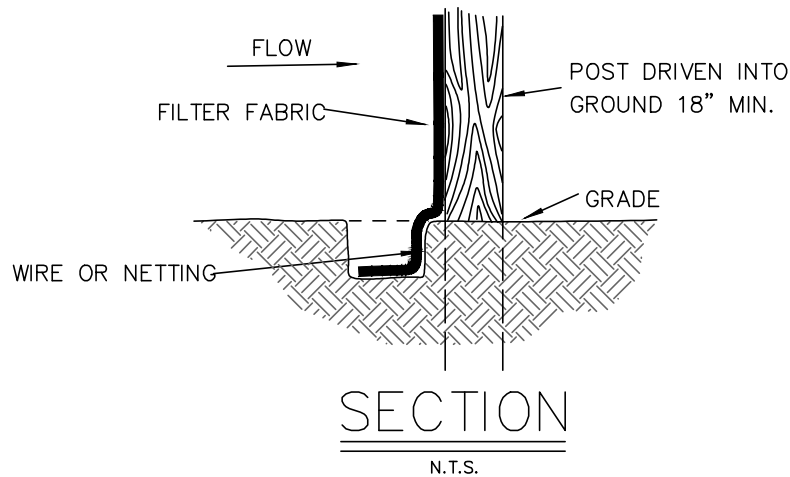
TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT 100% OF THE CRITICAL PROTECTION ZONE



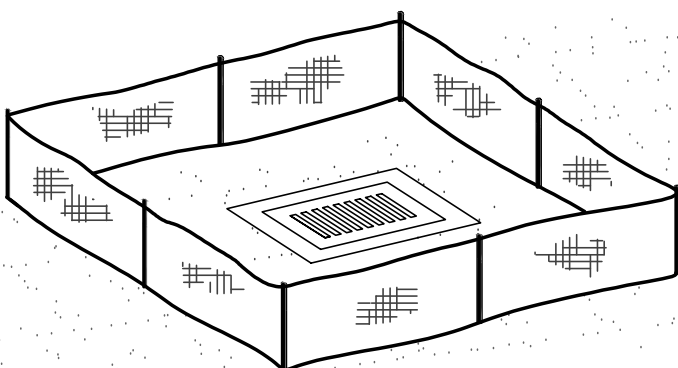
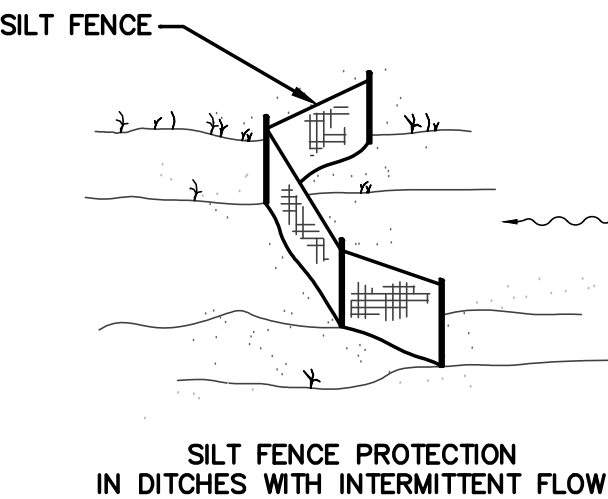
ENVIRONMENTAL 100X WITH SED. FILTER FABRIC
NETTING & POST OR APPROVED EQUAL



ELEVATION
SILT FENCE DETAIL
N.T.S.



SECTION
N.T.S.



SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS

SILT FENCE APPLICATIONS

**ALDAY-HOWELL
ENGINEERING, INC.**
2860 HWY 71 NORTH, SUITE B
MARIANNA, FL 32446
PHONE (850) 526-2040 * FAX (850) 526-4740
E-MAIL: info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		INITIALS	DATE
DESCRIPTION			

CLIENT:

WILLIAM GLEN BROWN

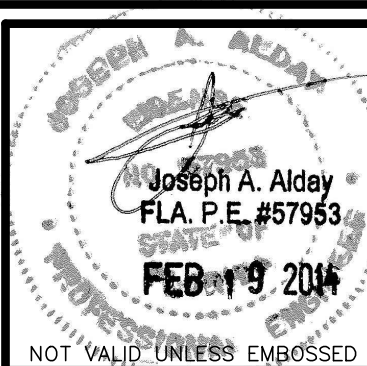
PROJECT:

CRUMP ROAD
CONVENIENCE STORE

SHEET TITLE:

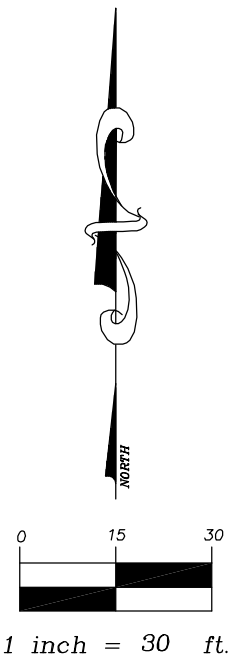
TREE REMOVAL,
DEMOLITION &
SWPP PLAN

1"
IF THIS LINE DOES NOT
MEASURE ONE INCH IN
LENGTH, THE SCALES
ON THIS DRAWING ARE
NOT VALID.



JOB NO. 13-034
DRAWN BY ECW
CHECKED BY JAA
DATE 2/19/14
SHEET 6

LANDSCAPE SUPERVISOR:
WILLIAM GLEN BROWN
2802 TOPAZ WAY
TALLAHASSEE, FL 32309
(850) 528-6293



TREE PLANTING CREDITS		
QTY	DESCRIPTION	CREDITS
12	PRESERVED EXISTING TREE (SEE SCHEDULE SHEET 6)	60
44	PROPOSED TREES (40% CANOPY COVERAGE & PERIMETER LANDSCAPING)	88
TOTAL		148

TREE CREDIT - DEBIT	
REFORESTATION REQUIREMENT = 40 TREES/ACRE	84
TOTAL TREES REPLANTING/PRESERVED	148
TOTAL TREE CREDITS	64

LANDSCAPING REQUIREMENTS

FRONTAGE REQUIREMENTS
(1 TREE/25' REQUIRED LANDSCAPE PERIMETER AREA)

PROPERTY LINE	LENGTH	CANOPY TREES REQUIRED	CANOPY TREES PROVIDED
NORTH	281'	12 TREES	12
SOUTH	205'	9 TREES	9
EAST	-	EXISTING VEGETATION	-
WEST	157'	7 TREES	7

VEHICULAR USE AREA	19,558 SF	NATURAL AREA PRESERVED	23,866±(27% OF SITE AREA)
CANOPY COVERAGE REQUIRED (40%VUA)	7,823 SF		
PUMP ISLAND CANOPY	3,584 SF		
CANOPY PROVIDED 6 TREES @ 707 SF	4,242 SF		
CANOPY COVERAGE PROVIDED	7,826 SF		

VEHICULAR USE AREA	19,558 SF
INTERIOR LANDSCAPE AREA REQUIRED	400/5000 SF
INTERIOR LANDSCAPE AREA PROVIDED	
ILA#1	2,232 SF
ILA#2	409 SF
ILA#3	489 SF

LANDSCAPE LEGEND

GROUND COVER

SHRUBS

38,000± S.F. INCLUDING 10% FOR WASTE
BERMUDA SOD
CYNODON DACTYLON

67 DWARF INDIAN HAWTHORN
RAPHIOLEPIS INDICA
3 GAL. 30" O.C.
18" HEIGHT 15" SPREAD
PRUNE AFTER FLOWERING, WATCH FOR LEAF SPOT
120 WALTER'S VIBURNUM
VIBURNUM OBOVATUM
3 GAL. 4' O.C.
18" HEIGHT 15" SPREAD
PRUNE LIGHTLY AFTER FLOWERING

UNDERSTORY TREES

3 'SAVANNAH' HOLLY
ILEX ATTENUATA 'SAVANNAH'
2" CALIPER MIN 3" C.T.
WATCH FOR LEAF MINER
20 EASTERN RED BUD
CERCIS CANADENSIS
30 GAL. 2" CALIPER
WATCH FOR LEAF SPOT AND BORERS
PRUNE LOWER BRANCHES FOR VISIBILITY

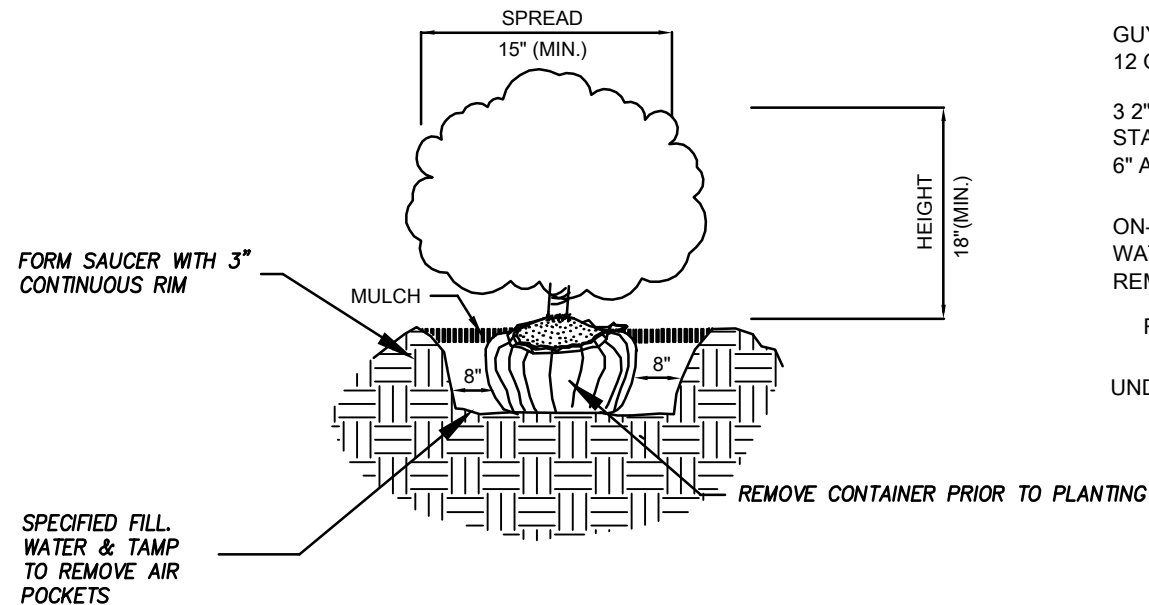
CANOPY TREES

4 'ALLEE' ELM
ULMUS PARVIFOLIA 'ALLEE'
2" CALIPER
FEED ONCE A YEAR WITH A SLOW RELEASE FERTILIZER
8 LIVE OAK
QUERCUS VIRGINIANA
2" CAL. MATCHED
PRUNE CROSSING OR BROKEN LIMBS
9 AMERICAN SWEETGUM
LIQUIDAMBAR STYRACIFLUA
2" CALIPER STRAIGHT TRUNK
WATCH FOR LEAF SPOT AND BAGWORMS

LANDSCAPE NOTES:

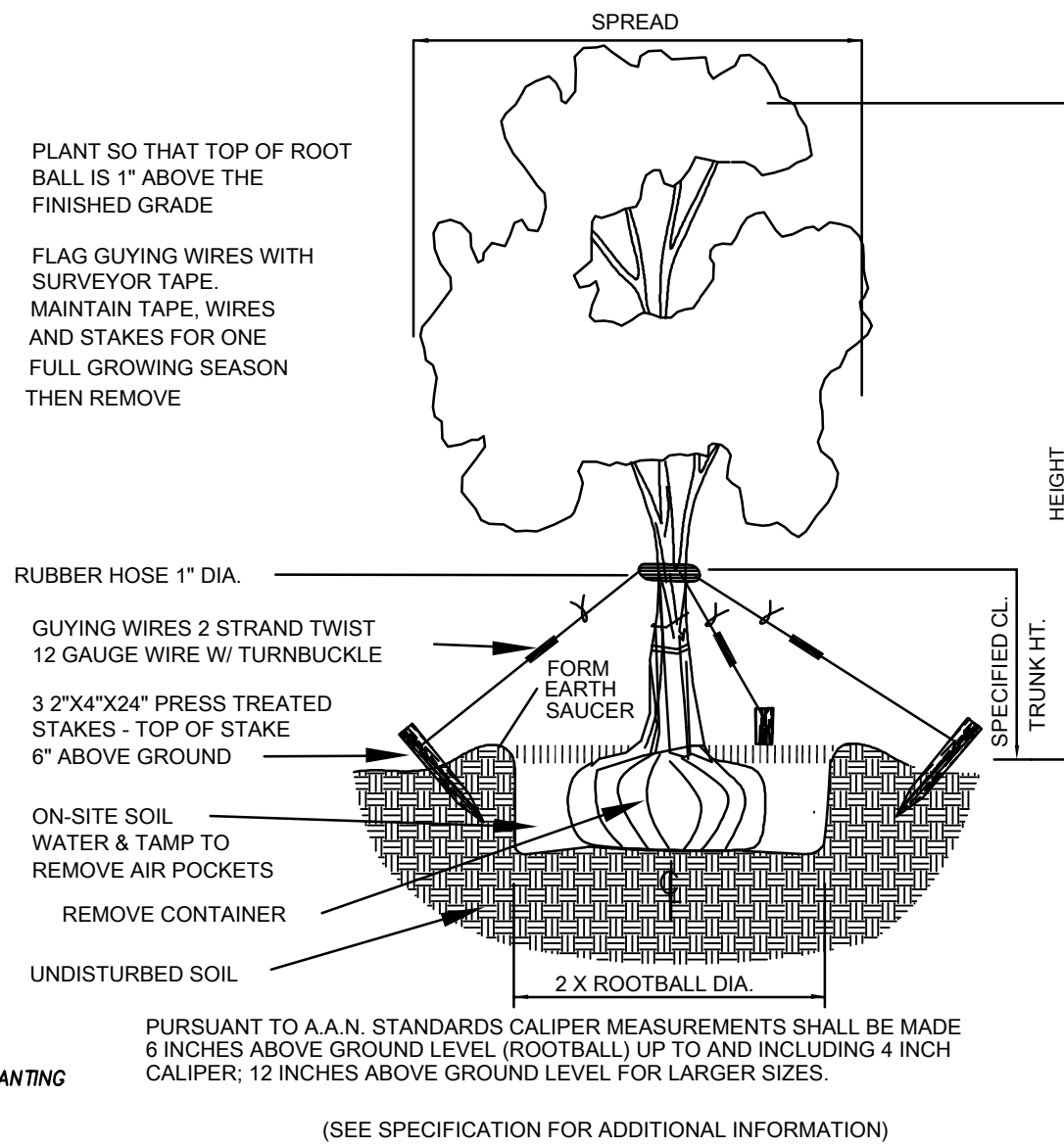
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING INSTALLATION OF LANDSCAPING.
- CONTRACTOR SHALL INSTALL ONLY PLANTS GRADED FLORIDA #1, AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANTS" PART 1 AND 2 AND REVISIONS, AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE, DETAILS, OR AS SPECIFIED IN THE PLAN. ALL PLANT MATERIAL SHALL BE HEALTHY, WELL PROPORTIONED, AND DISEASE FREE.
- CONTRACTOR SHALL INSTALL AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL NEWLY PLANTED PLANTS AND GRASSED AREAS. ALL IRRIGATION LINES INSTALLED SHALL NOT IMPACT CP2 OF PROTECTED TREES. CONTRACTOR SHALL SUBMIT SHOP DRAWING PLANS OF PROPOSED SYSTEM TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- IRRIGATION SLEEVES REQUIRED UNDER PARKING OR DRIVE AREAS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE LIMEROCK BASE.
- ALL PLANTS, LANDSCAPE MATERIALS, AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY THE OWNER.
- ALL PLANTS AND MATERIAL INSTALLATION SHALL MEET ALL LEON COUNTY REQUIREMENTS OR STANDARDS AS WELL AS INDUSTRY STANDARDS FOR LANDSCAPE CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING PLANTS AND GRASS UNTIL IRRIGATION SYSTEM HAS BEEN INSTALLED AND ACCEPTED BY THE OWNER.
- AFTER ACCEPTANCE BY THE OWNER, THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING REQUIRED BY THE ENVIRONMENTAL PERMIT IN PERPETUITY.
- ALL PLANTING BEDS SHALL BE MULCHED WITH 2 INCHES OF PINE STRAW AFTER PLANTS HAVE BEEN INSTALLED.

- INTERIOR LANDSCAPE ISLANDS/AREAS SHALL HAVE A MINIMUM PLANTING VOLUME OF 1,200 C.F. WITH A MINIMUM DEPTH OF THREE FEET (3') BELOW THE FINISHED GRADE OF THE PLANTING AREA AND LACED WITH NON-COMPACTED 'FRIABLE' TOPSOIL.
- FOR ALL SHRUB PLANT MATERIAL, MULCH PITS AND PLANTED AREAS PROVIDE NOT LESS THAN TWO INCHES (2") OF MULCH AND WORK INTO TOP OF PLANTING SOIL MIXTURE PRIOR TO TOP DRESSING WITH PINE STRAW.
- FERTILIZE ALL TREES WITH A HIGH NITROGEN SLOW RELEASE 20-10-5 ANALYSIS FERTILIZER, AT AMOUNTS SPECIFIED BY MANUFACTURER.
- TREAT ALL PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS.
- VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE PRIOR TO PRICING. INSTALL ALL PLANTS AND MATERIALS AS SHOWN ON THE PLANS, SCHEDULE, OR DETAILS.
- CONTRACTOR SHALL PROVIDE A ONE YEAR GUARANTEE ON ALL PLANTS OR INSTALLED MATERIALS.
- NO SUBSTITUTIONS OR REVISIONS ARE ALLOWED WITHOUT PRIOR APPROVAL OF THE OWNER, ENGINEER OF RECORD, AND ENVIRONMENTAL INSPECTOR. NO EXCEPTIONS!
- A MINIMUM IRRIGATION REQUIREMENT HOSE BIBS ARE TO BE PLACED AT A MAXIMUM DISTANCE OF 100' FROM PROPOSED LANDSCAPING.
- ANY IRRIGATION PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY LEON COUNTY PRIOR TO CONSTRUCTION.
- ALL LANDSCAPING IN CONFLICT WITH THE MAINTENANCE ACCESS IS TO BE REMOVED AND REPLACED WITH EQUAL OR BETTER QUALITY OF WHAT WAS REMOVED AS NECESSARY DURING MAINTENANCE. MAINTENANCE EQUIPMENT IS NOT TO ACCESS THE SWMF VIA HIGHWAY 20.



SHRUB PLANTING DETAIL

NOT TO SCALE



TREE PLANTING / GUYING DETAIL

NOT TO SCALE

REVISIONS		INITIALS	DATE
DESCRIPTION			

CLIENT:

WILLIAM GLEN BROWN

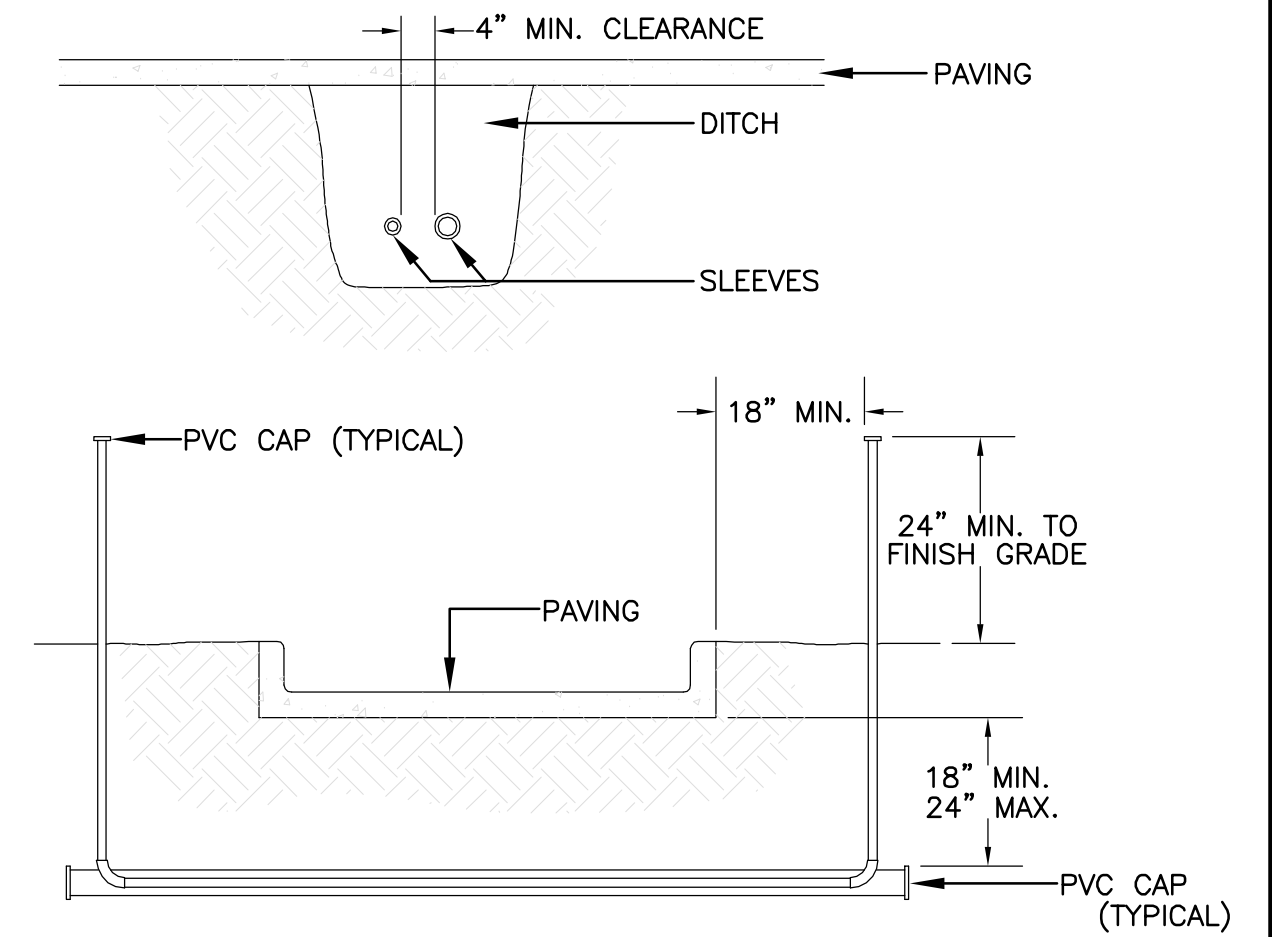
PROJECT:

CRUMP ROAD
CONVENIENCE STORE

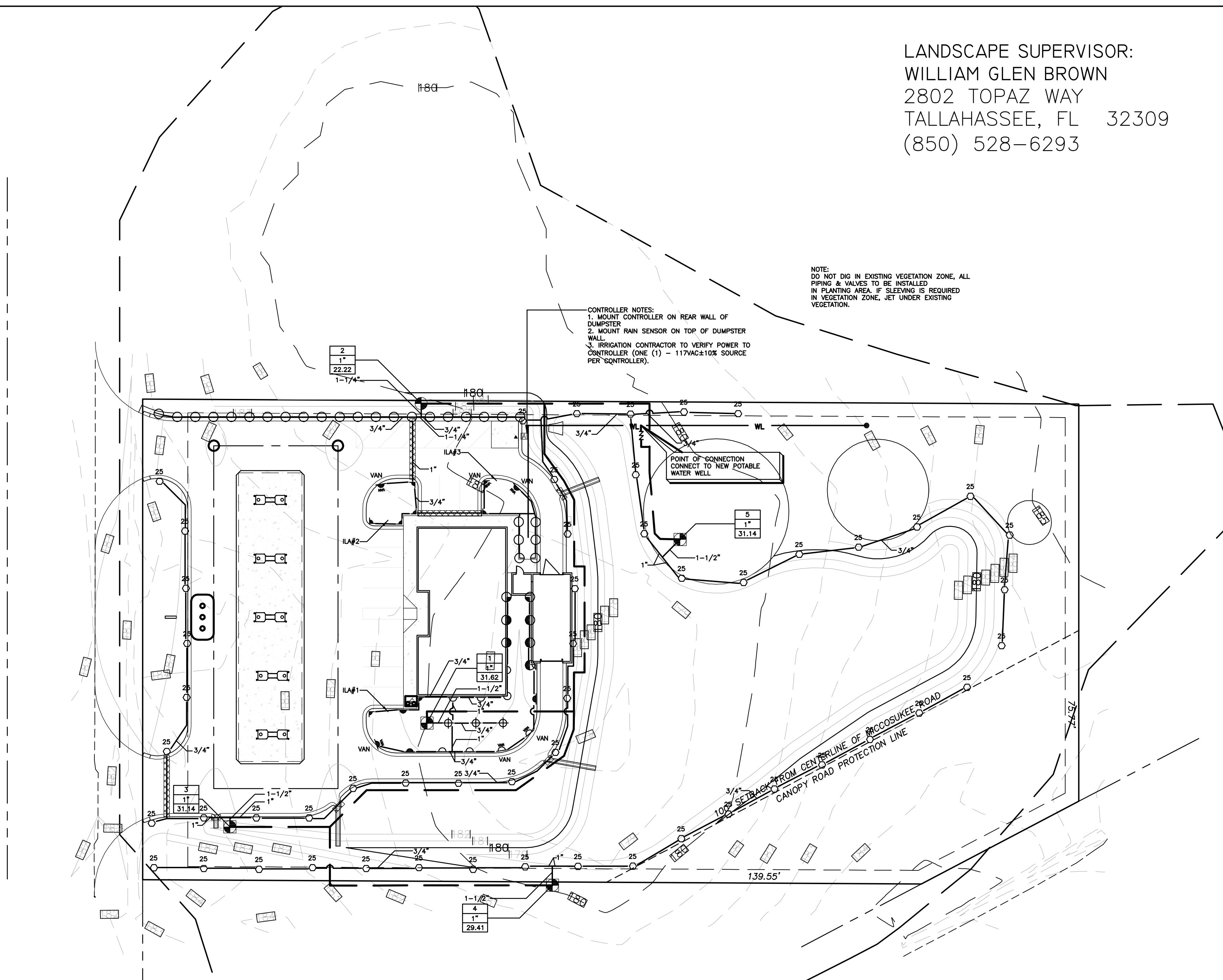
SHEET TITLE:

LANDSCAPE PLAN



















1"
IF THIS LINE DOES NOT
MEASURE ONE INCH IN
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ON THIS DRAWING ARE
NOT VALID.

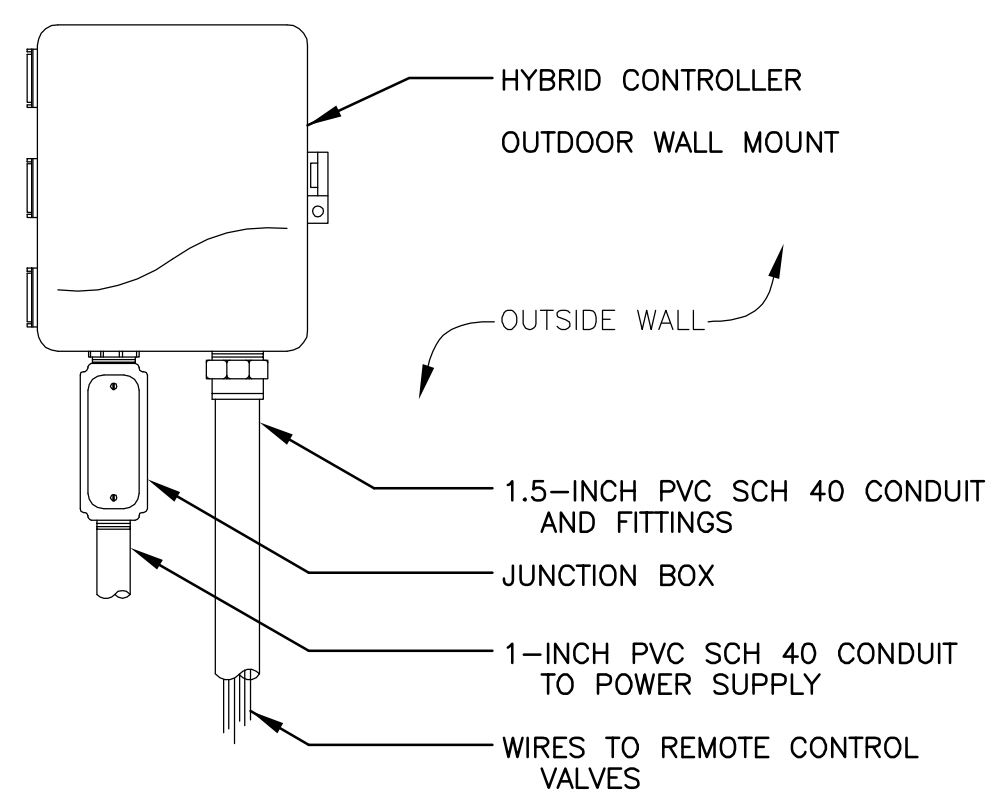


- 1 SLEEVING DETAIL**
8 SCALE: N.T.S.

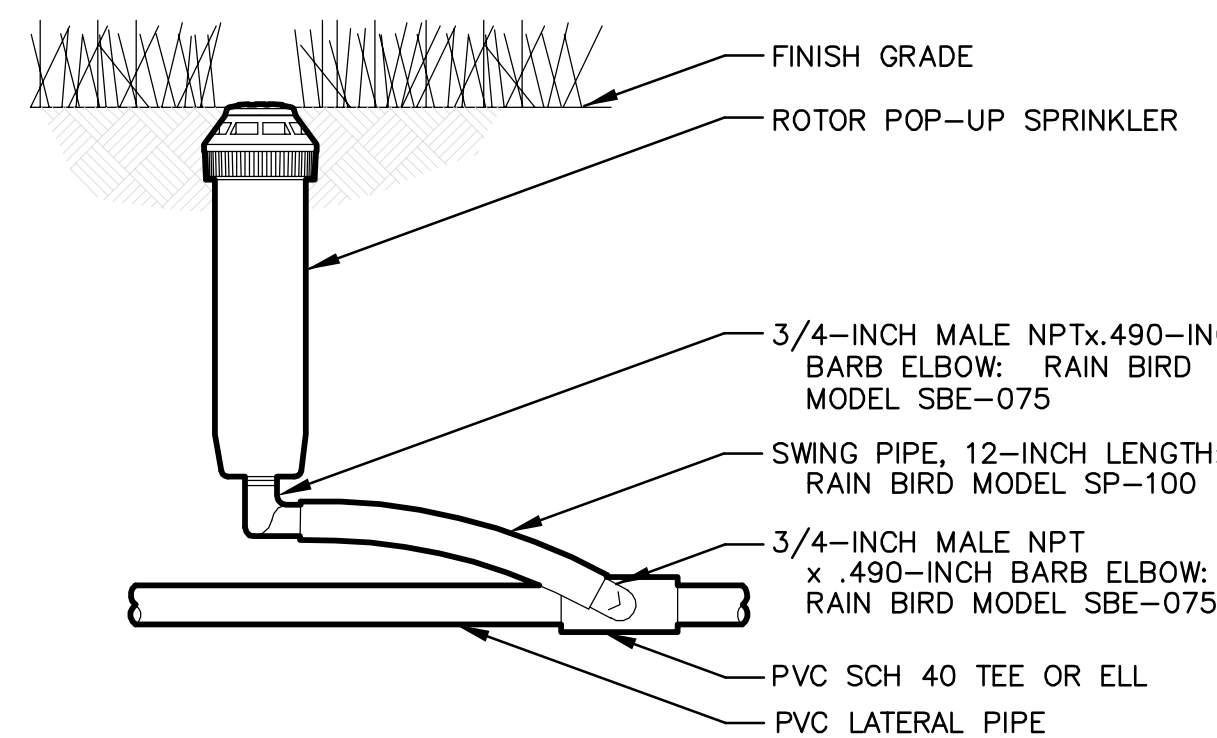


- ### IRRIGATION SCHEDULE

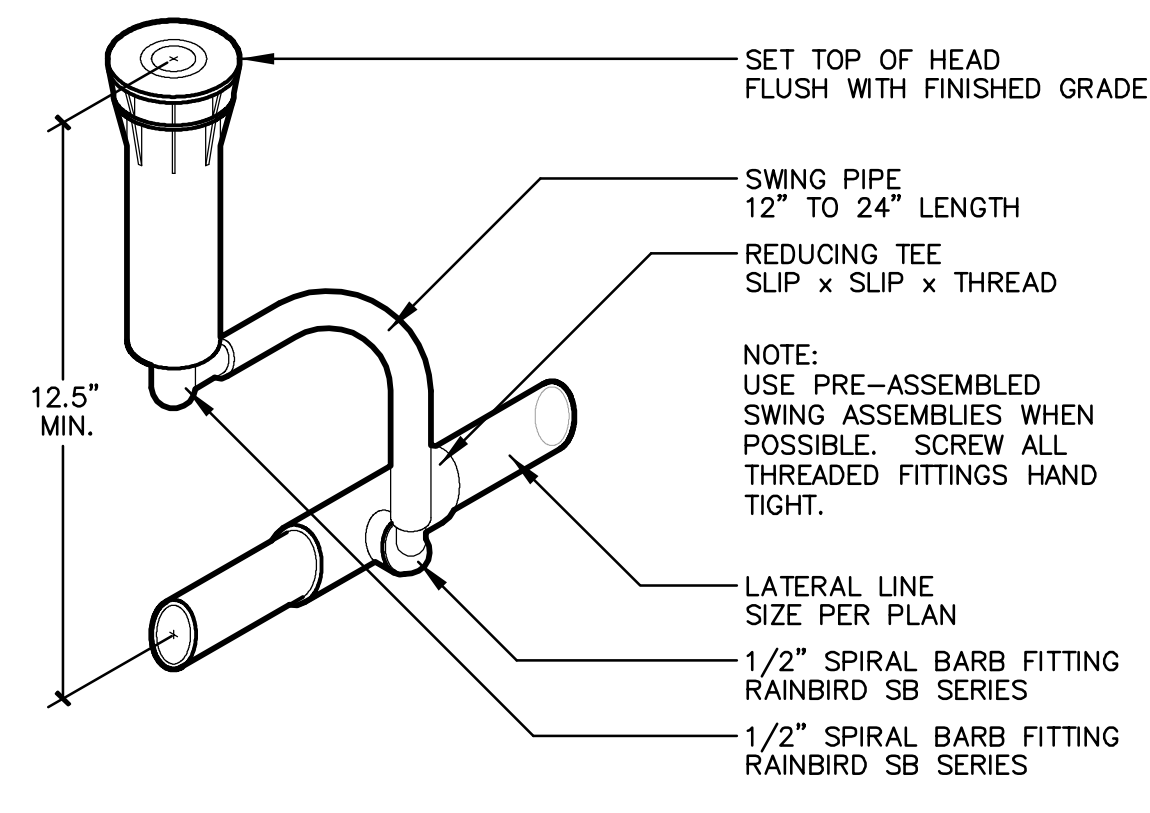
QUANTITY	KEY	MODEL (RAINBIRD UNLESS OTHERWISE NOTED)	GALLONS PER MINUTE	
2		1806-8Q	.26	
25		1806-8H	.52	
2		1806-10Q	.39	
5		1806-10H	.72	
2	 VAN	1806-12VAN	1.30	
1		1806-12Q	0.65	
5		1806-12H	1.30	
1		1806-12TQ	1.95	
3		1806-12F	2.60	
4	 VAN	1806-15VAN	.92-1.85	
7		1806-15Q	.92	
3		1806-15H	1.85	
53	 25	5004-MPR-25-H	1.73 @ 35 PSI	
1	 1"	1" ELECTRIC REMOTE CONTROL VALVE 100-PGA		
4	 1-1/2"	1-1/2" ELECTRIC REMOTE CONTROL VALVE 150-PGA		
1		7 STATION CONTROLLER ESP-4W FOUR STATION BASE WITH (1) THREE STATION MODULE		
1		RAIN SENSOR RSD-BEX		
1		1-1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		



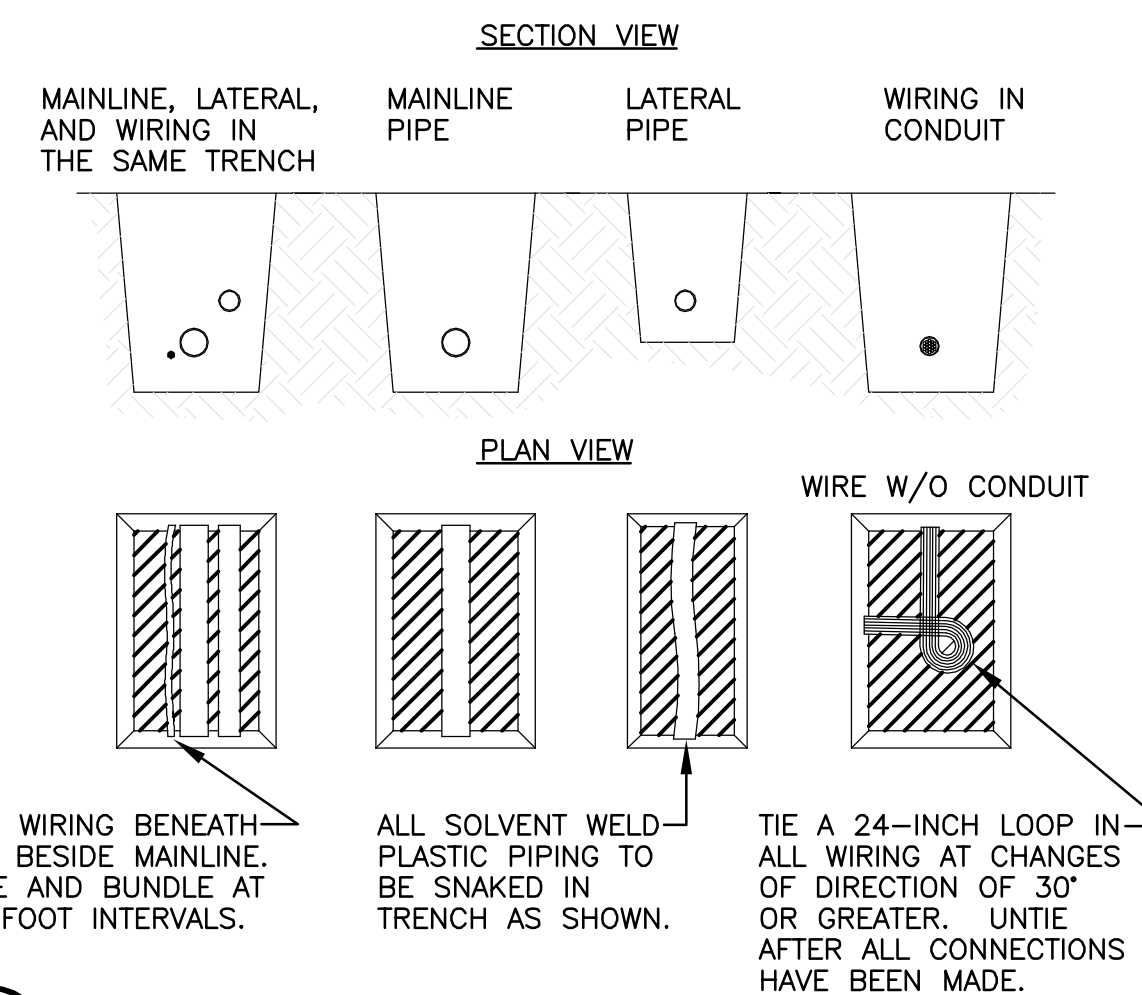
5 **HYBRID CONTROLLER**
8 SCALE: N.T.S.



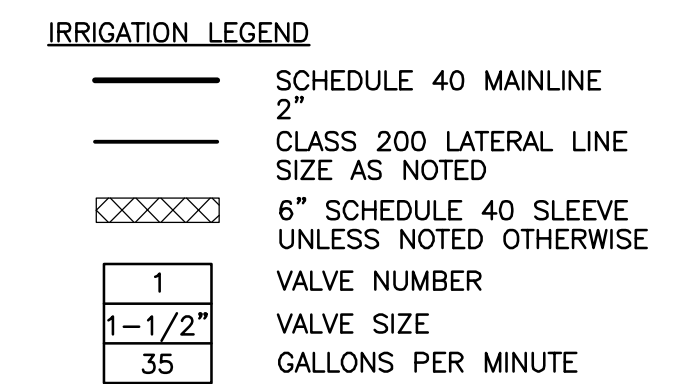
MEDIUM RANGE ROTOR
SCALE: N.T.S.



3 SPRAYHEAD DETAIL
8 SCALE: 1/4"=1"



2 PIPE & WIRE TRENCHING
8 SCALE: N.T.S.



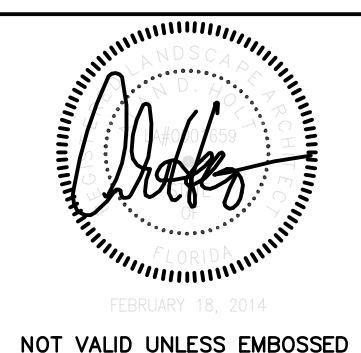
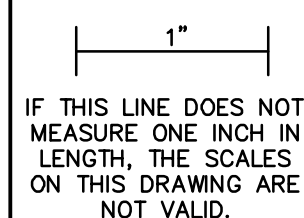
1	ZONE NUMBER
1-1/2"	VALVE SIZE
35	GALLONS PER MINUTE

[illegible]

WILLIAM GLEN BROWN

CRUMP ROAD
CONVENIENCE STORE

IRRIGATION PLAN



JOB NO. 13-034
DRAWN BY ADH
CHECKED BY JAA
DATE 2/18/14
SHEET 8