

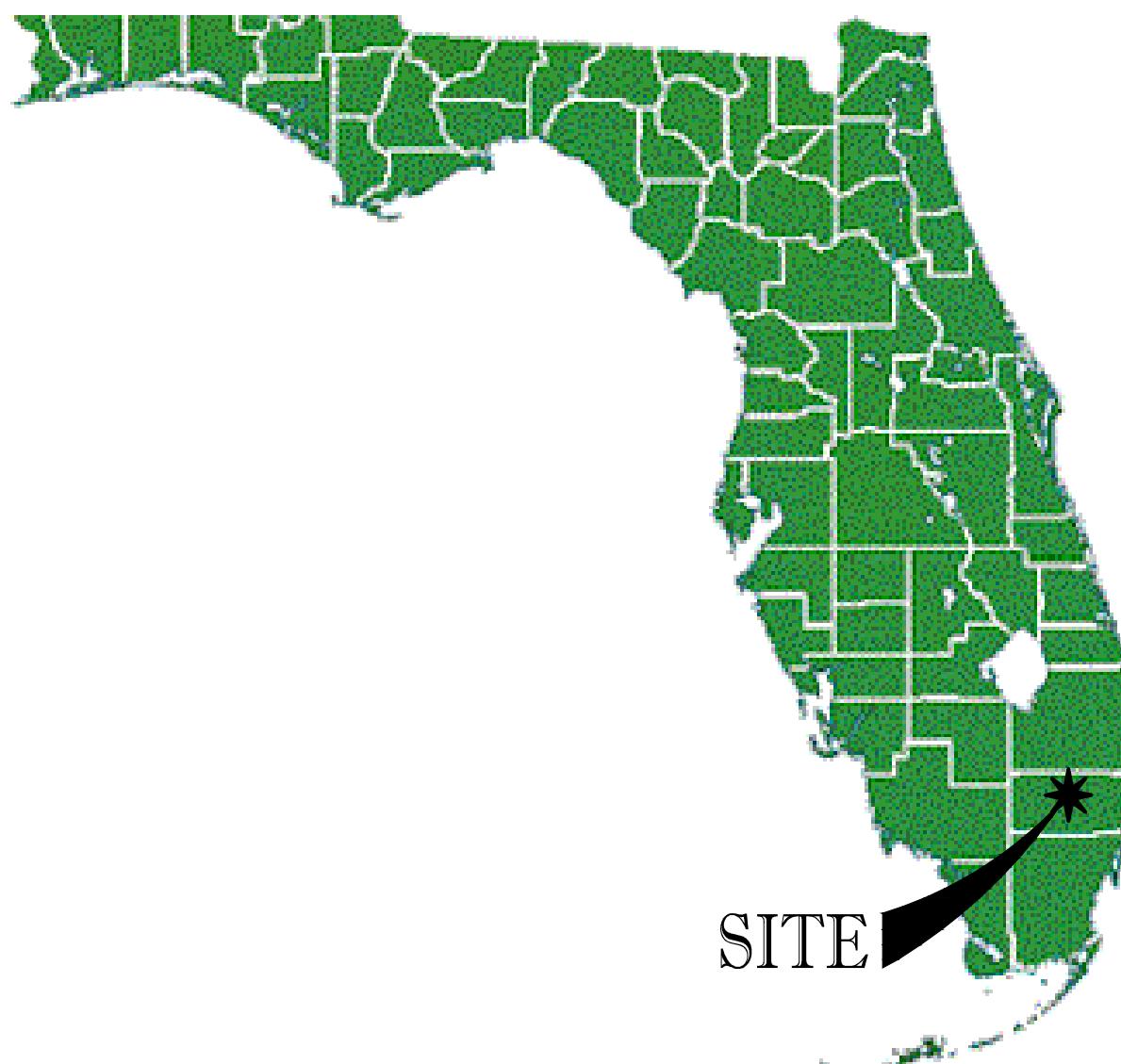
SITE DEVELOPMENT DRAWINGS FOR:



5485 WEST ATLANTIC BOULEVARD,

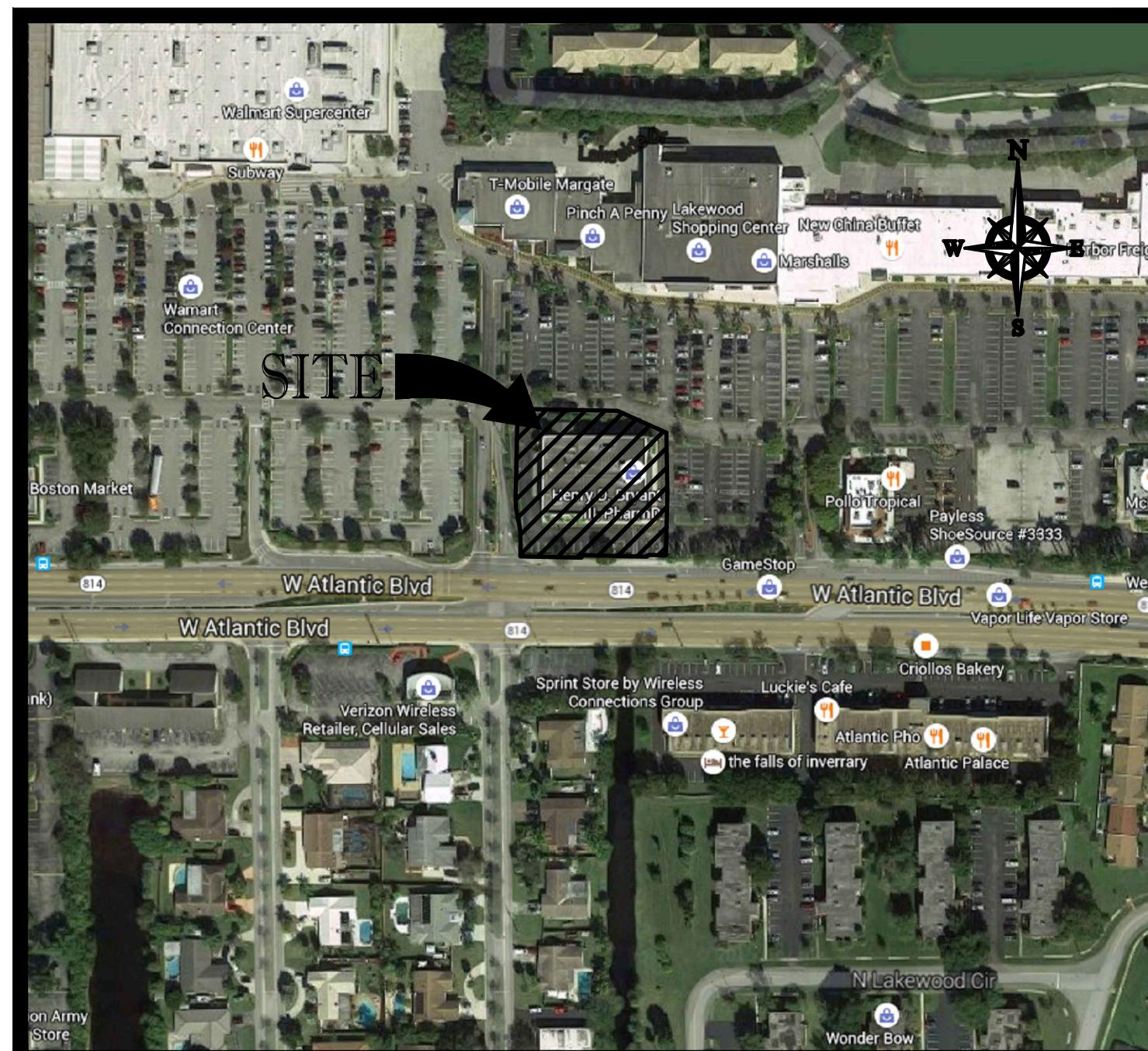
MARGATE, FL

SECTION 36, TOWNSHIP 48S, RANGE 41E



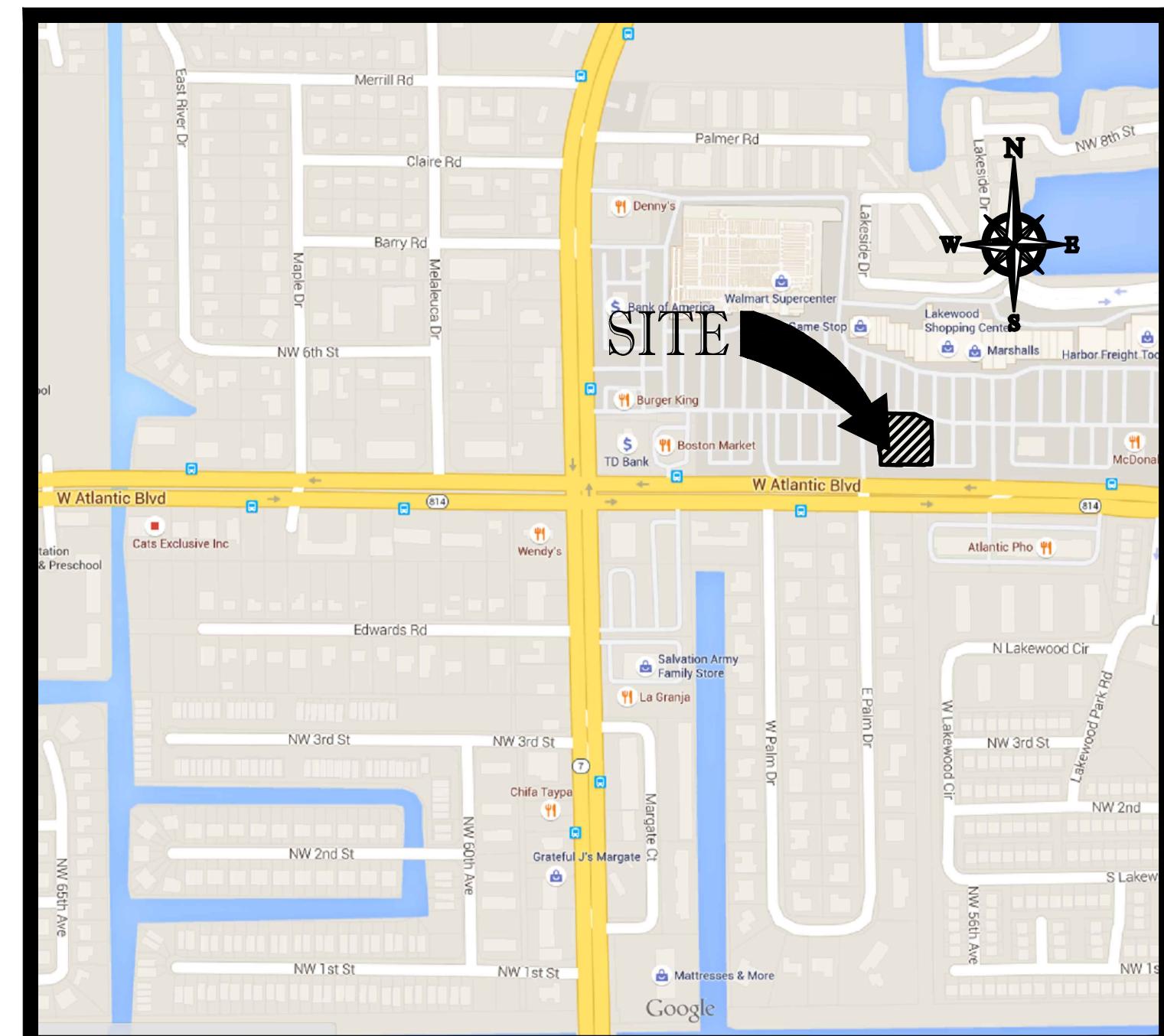
LOCATION MAP

1"=200



VICINITY MAP

$$1'' = 500'$$



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LEGAL DESCRIPTION

A PORTION OF TRACT 'A', 'LAKEWOOD COMMERCIAL', ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 120, PAGE 27, AND A PORTION OF THE SHOPPING CENTER, 'MARGATE REALTY No. 1', ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 42, PAGE 42, BOTH OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.



GENERAL NOTES

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE CONFORMANCE TO THESE REQUIREMENTS BY ALL SUBCONTRACTORS.

1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:

- TOPOGRAPHIC SURVEY - POLICE LAND SURVEYORS, INC.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE.

2. ALL HANDICAPPED PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. SEC. 12101 ET SEQ. AND 42 U.S.C. SEC. 4151 ET SEQ.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THIS PROJECT IS TO BE CONSTRUCTED.

3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.

4. THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT.

6. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, SHALL TAKE PRIORITY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.

7. THE TOPOGRAPHIC SURVEY PREPARED BY POLICE LAND SURVEYORS, INC., SHALL BE CONSIDERED A PART OF THESE PLANS.

8. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO THOMAS ENGINEERING GROUP BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THOMAS ENGINEERING GROUP IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.

9. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE ENGINEER. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.

10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.

11. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.

12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT AND CONTIGUOUS STRUCTURES.

14. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, ETC. WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.

15. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

16. ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

17. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

18. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAS THE ENGINEER OF RECORD BEEN RETAINED FOR SUCH PURPOSES.

19. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGI). ALL CONTRACTORS MUST HAVE THEIR CGI POLICIES ENDORSED TO NAME THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATION ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH THOMAS ENGINEERING GROUP WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON REQUEST OF EACH PROJECT OWNER. THE CONTRACTORS WILL NOT HOLD HARMLESS THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

20. THOMAS ENGINEERING GROUP WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THOMAS ENGINEERING GROUP'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THOMAS ENGINEERING GROUP HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THOMAS ENGINEERING GROUP WILL NOT BE RESPONSIBLE FOR ANY Deviations FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. THOMAS ENGINEERING GROUP WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

21. NEITHER THE PROFESSIONAL ACTIVITIES OF THOMAS ENGINEERING GROUP NOR THE PRESENCE OF THOMAS ENGINEERING GROUP OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION / PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMANCE, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS WILL NOT HAVE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THOMAS ENGINEERING GROUP SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

22. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PROPER WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS. ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THEREFROM, AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM, THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS RELATED TO SAME.

23. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM SHOULD BE INCLUDED IN THE CONTRACTOR'S PRICE.

24. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS. ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO, AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM, THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS RELATED TO SAME.

25. CONTRACTOR SHALL CONFIRM ADA ACCESSIBILITY PRIOR TO INSTALLING FINISHING COURSES OF SIDEWALKS AND PARKING AREAS.

26. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A RECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.

27. ALL UTILITY EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED) PRIOR TO CERTIFICATE OF OCCUPANCY. (THESE EASEMENTS SHALL BE SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR).

28. CONTRACTOR SHALL PROVIDE MINIMUM 48 HOUR NOTICE TO ENGINEER AND APPLICABLE AGENCIES FOR SCHEDULING INSPECTIONS.

29. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND CITY OF MARGATE FOR THE FOLLOWING: DRAINAGE PIPES, CATCH BASINS, FIRE HYDRANTS, VALVES, AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

30. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.

31. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND APPROVED BY THE CITY OF DAVIE AND BROWARD COUNTY WHERE APPLICABLE PRIOR TO IMPLEMENTATION.

32. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

33. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM THE CITY OF WESTON.

34. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, ETC. WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.

35. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

36. ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

37. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

38. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAS THE ENGINEER OF RECORD BEEN RETAINED FOR SUCH PURPOSES.

39. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGI). ALL CONTRACTORS MUST HAVE THEIR CGI POLICIES ENDORSED TO NAME THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATION ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH THOMAS ENGINEERING GROUP WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON REQUEST OF EACH PROJECT OWNER. THE CONTRACTORS WILL NOT HOLD HARMLESS THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

40. THOMAS ENGINEERING GROUP WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THOMAS ENGINEERING GROUP'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THOMAS ENGINEERING GROUP HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THOMAS ENGINEERING GROUP WILL NOT BE RESPONSIBLE FOR ANY Deviations FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. THOMAS ENGINEERING GROUP WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

D. TESTING:

1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER OF RECORD SHALL PERFORM A VISUAL INSPECTION AND/OR EXTRUSION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.

2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXTRUSION TEST, UPON APPROVAL OF THE ENGINEER.

3. MANHOLE LEAKAGE SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.

4. SEWER PIPE LEAKAGE ALLOWABLE SHALL NOT EXCEED 150 GALLONS PER DAY PER INCH DIAMETER PER MILE IN ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED AND ALL LINES SHALL BE T.V. INSPECTED.

5. SANITARY SEWER SHALL BE TELEvised AND LAMPED AT DEVELOPER'S EXPENSE, PRIOR TO FINAL ACCEPTANCE. OWNER / CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO CERTIFICATION TO ANY AGENCY.

6. VISIBLE INFILTRATION LEAKAGE INTO MANHOLES AND SEWER PIPE SHALL NOT BE PERMITTED.

WATER DISTRIBUTION AND/OR SANITARY SEWER FORCE MAIN SYSTEM

A. GENERAL:

1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS, FOR THE WATER AND SEWER FORCE MAINS, HAVE BEEN CONDUCTED AND APPROVED AND THE SYSTEM IS ACCEPTABLE TO THE CITY OF MARGATE UTILITIES DEPARTMENT AND THE CITY OF MARGATE WATER & SEWER DEPARTMENT.

2. BEDDING AND INITIAL BACKFILL FOR MAINS SHALL BE SAND WITH NO ROCKS LARGER THAN 1" IN DIAMETER.

3. USE "DETECTO" TAPE ON ALL PVC MAINS (18" ABOVE) AND USE "NON-DETECTO" TAPE ON ALL D.I.P. MAINS (18" ABOVE).

4. A THREE (3) FOOT HORIZONTAL SEPARATION IS REQUIRED BETWEEN WATER MAINS AND OBSTRUCTIONS (I.E. CATCH BASINS, POWER POLES, ETC.). FIVE (5) FOOT OF SEPARATION IS REQUIRED BETWEEN WATER MAINS AND TREES.

B. MATERIALS:

1. DUCTILE IRON PIPE (DIP) SHALL BE CLASS 52 UP TO 12" SIZE & CLASS 51 FOR 14" AND LARGER WITH INTERIOR CEMENT LINING AND BUTTERNISS COATED OUTSIDE. WATER MAIN & EPOXY LINER & COATED PIPE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-91 OR LATEST REVISION. THE PIPE SHALL WITHSTAND A WORKING PRESSURE OF 350 PSI. THE JOINTS SHALL BE BELL AND SPIGOT PUSH-ON TYPE UNLESS OTHERWISE NOTED ON THE PLANS.

2. PVC MAINS SHALL BE SERIES 1120, CLASS 150 (DR 18) PRESSURE PIPE CONFORMING TO ANSI/AWWA C900-89 OR LATEST REVISION. THE PLATES SHALL HAVE PUSH-ON JOINTS, AND IRON PIPE (D.I.P.) PVC ON-SITE ONLY.

3. FITTINGS FOR MAINS 4" AND LARGER SHALL BE DUCTILE IRON MECHANICAL JOINT CONFORMING TO ANSI/AWWA C110/A21.10-93 OR LATEST REVISION. CEMENT LINER & BUTTERNISS GASKETS, BOLTS AND NUTS, AND LIFTING SHALL BE CEMENT LINER & BUTTERNISS COATED WITH THE SAME MATERIALS AS THE PIPE & USE MEGALUG SERIES 1100 RESTRAINED JOINT ADAPTERS.

4. VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509-87 OR LATEST REVISION. AND SHALL HAVE MECHANICAL JOINTS.

5. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2360-20, RESILIENT SEAT GATE VALVES SHALL BE AMERICAN 500/2500 LINE OR CLOW F-610 CONFORMING TO ANSI/AWWA C509-87.

6. TAPPING VALVES SHALL BE MUELLER H670 OR APPROVED EQUAL. C. GATE VALVES 3" OR LESS SHALL BE NIBCO T-136 OR T-136 WITH MALLEABLE HAND WHEELS. NO SUBSTITUTIONS ALLOWED.

7. TAPPING SLEEVES SHALL BE MUELLER H615 OR APPROVED EQUAL PER BROWARD COUNTY.

8. VALVE BOXES SHALL BE TYLER/UNION 461-S OR APPROVED EQUAL PER BROWARD COUNTY.

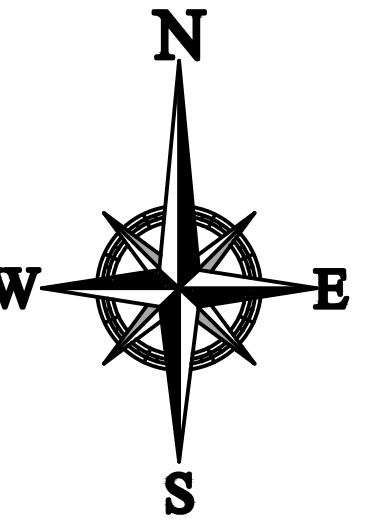
9. RETAINER GLANDS SHALL CONFORM TO ANSI/AWWA C111/A21.11-90 OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED BY UNDERWRITERS LABORATORY FOR 2500 MINIMUM PSI FOR THE TEST RATING. CLOW CORPORATION MODEL F-1050 OR STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR APPROVED EQUAL.

10. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED.

11. TAPING GLANDS SHALL HAVE A 3 1/4" MAIN VALVE OPENING. TAPPEE NOZZLE TO BE 18" FROM FINISH GRADE. ALL HYDRANTS TO BE INSTALLED WITH ANCHORING TEE AND CONTROL VALVE. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502-85 (OR LATEST REVISION). HYDRANTS SHALL BE KENNEDY GUARDIAN K-81-4 OR APPROVED EQUAL. BLUE REFLECTIVE PAVEMENT MARKER REQUIRED IN CENTER OF NEAREST DRIVING LANE FOR FIRE HYDRANTS.

12. DUCTILE IRON PIPE (DIP) SHALL BE COATED ON THE INSIDE AND SHALL HAVE A COAT-ON EPOXY COATING. MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-91 OR LATEST REVISION. MINIMUM WALL THICKNESS CLASS 52 (4"-12") & CLASS 51 (14"-20") UNLESS OTHERWISE SPECIFIED.

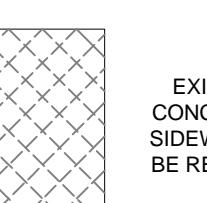
13. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.



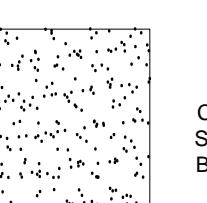
0 10 5 0 20

1" = 20'

CONTRACTOR SHALL REFER TO LANDSCAPE PLANS FOR TREE REMOVAL/RELOCATION.



NG
ETE &
ALK TO
MOVED



~~EXISTING
CONCRETE &
WALK TO
REMOVED~~

HATCH LEGEND

KNOW WHAT'S BEST
ALWAYS CALL
BEFORE YOU DIG

It's fast. It's free. It's the law.

www.callsunshine.com

ECT No.: F140147-DEMOLITION OVER

N BY: P

ED BY: P

D.: F140147-DEMOLITION OVER

ECT: P

5485 WEST
LANTIC BOULEVARD
FOR

Cumberland
F A R M S

The logo for Thomas Engineering Group. It features the word "THOMAS" in large, bold, orange capital letters. To the left of "THOMAS" is a vertical bar composed of two smaller bars: a grey one on the left and an orange one on the right. Below "THOMAS" is the word "ENGINEERING GROUP" in a smaller, grey, sans-serif font. A horizontal line runs across the page below the logo.

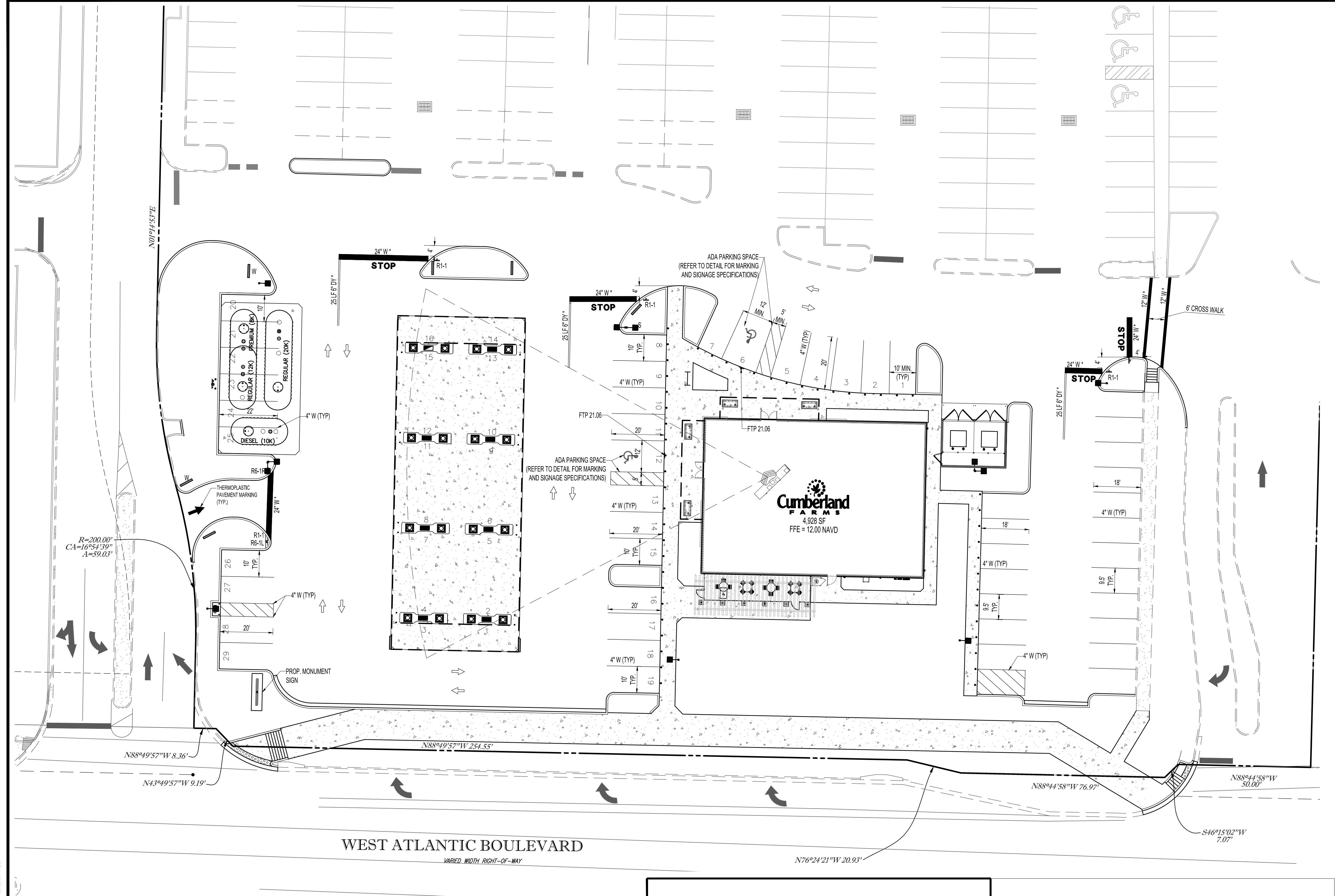
MICHAEL A. TROXEL

IDA BUSINESS CERT. OF AUTH. No. 27

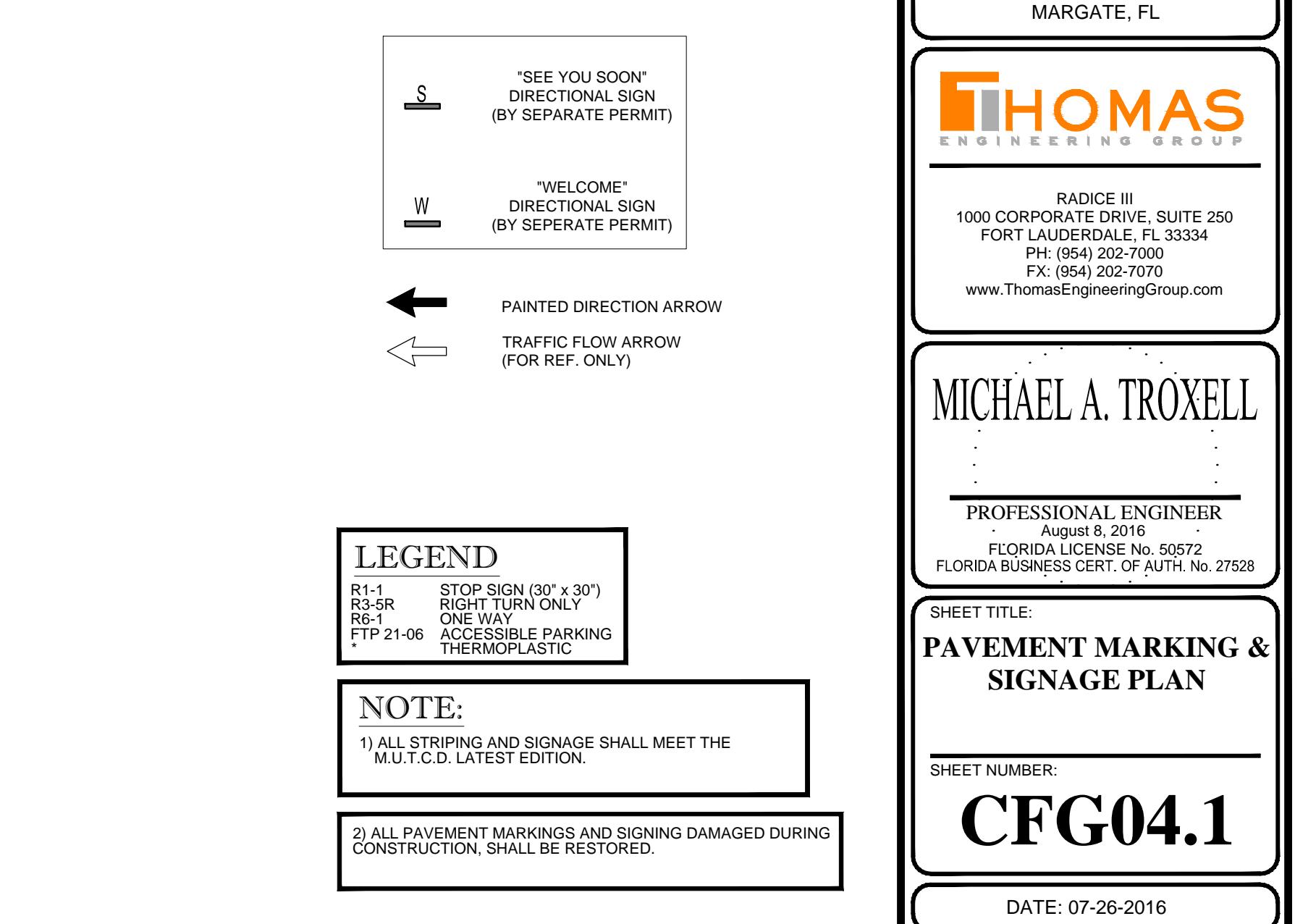
DEMOLITION OVERLAY PLAN

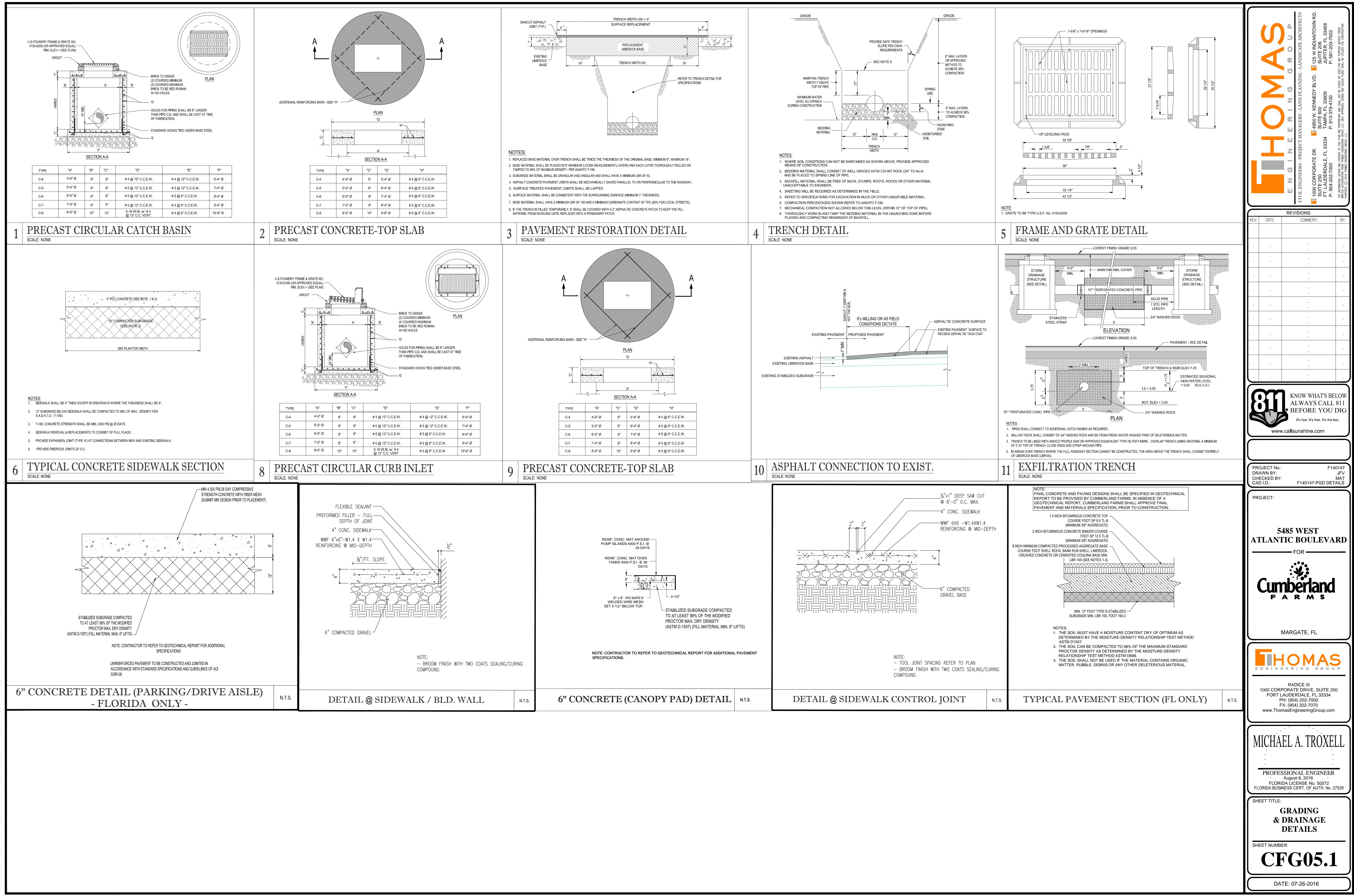
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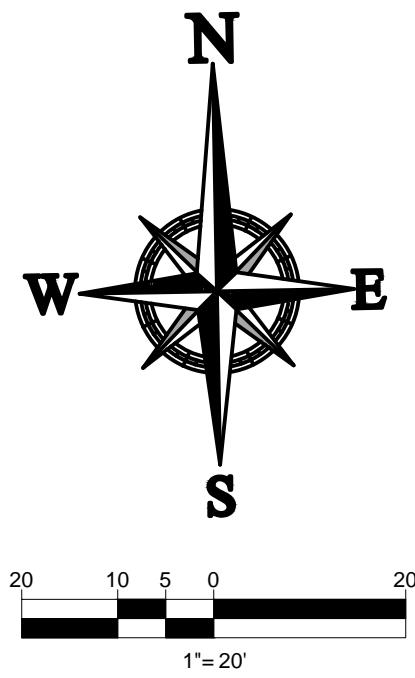
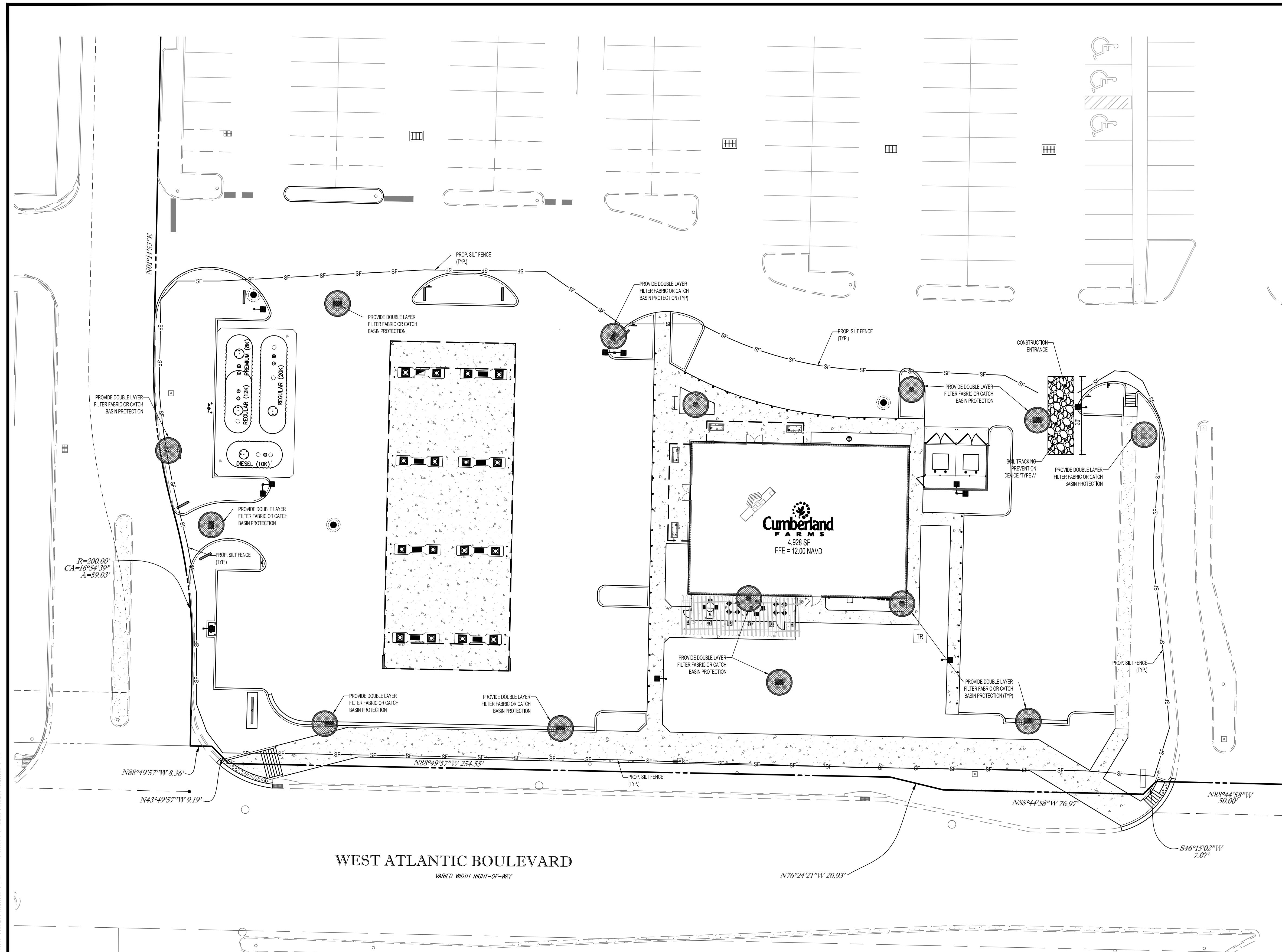
DATE: 07-26-2016



2 ACCESSIBLE PARKING SIGN
SCALE: NONE







20 10 5 0 20

1" = 20'

The logo for "811" features a large, bold, black-outlined number "811" on the left. To the left of the "8" is a shovel with a wooden handle and a metal head, positioned as if digging into the ground. The background is white with a thin black border.

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

It's fast. It's free. It's the law.

www.callsunshine.com

PROJECT No.: F140147
DRAWN BY: JFV
CHECKED BY: MAT
CAD I.D.: F140147-EROSION CONTROL
PLAN

**5485 WEST
ATLANTIC BOULEVARD**

The logo for Cumberland Farms. It features a circular arrangement of small dots surrounding a stylized leaf. Below this graphic, the word "Cumberland" is written in a large, bold, sans-serif font. Underneath "Cumberland", the word "FARMS" is written in a smaller, bold, sans-serif font. The entire logo is rendered in black on a white background.

The logo for Thomas Engineering Group. It features the word "THOMAS" in a large, bold, orange sans-serif font. To the left of "THOMAS" is a stylized "T" composed of two vertical bars: the left one is orange and the right one is grey. Below "THOMAS" is the word "ENGINEERING GROUP" in a smaller, grey, all-caps sans-serif font. The entire logo is set against a white background with a thin black border around the text area.

MICHAEL A. TROXELL

SHEET TITLE:

**EROSION &
SEDIMENTATION
CONTROL PLAN**

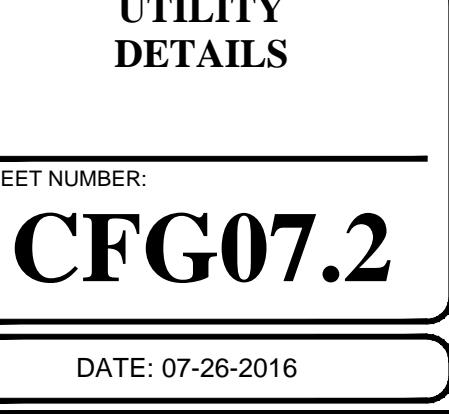
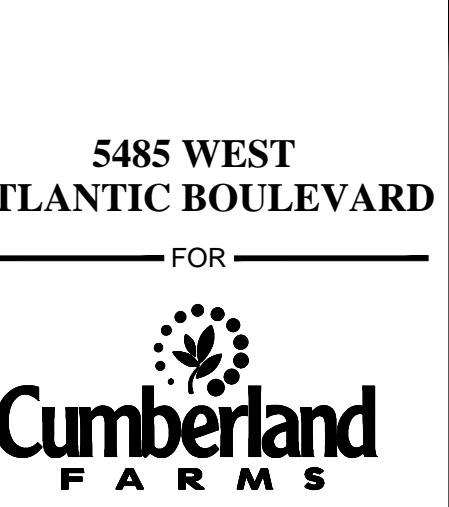
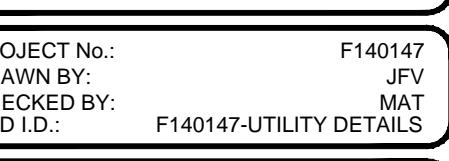
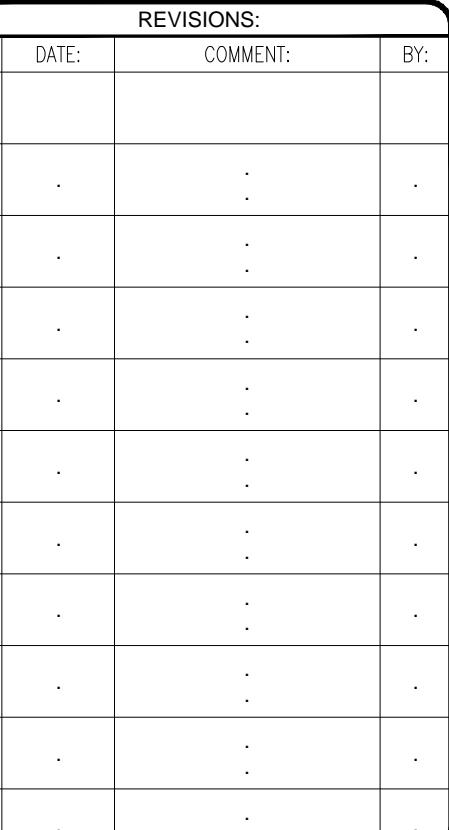
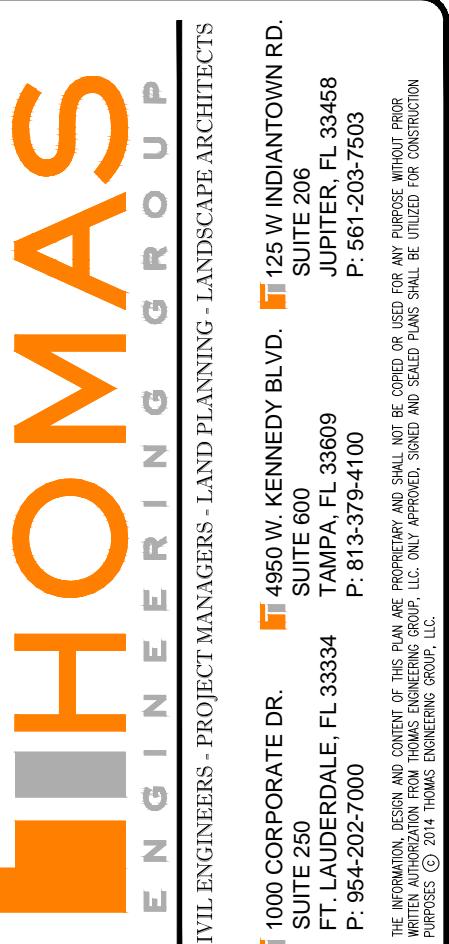
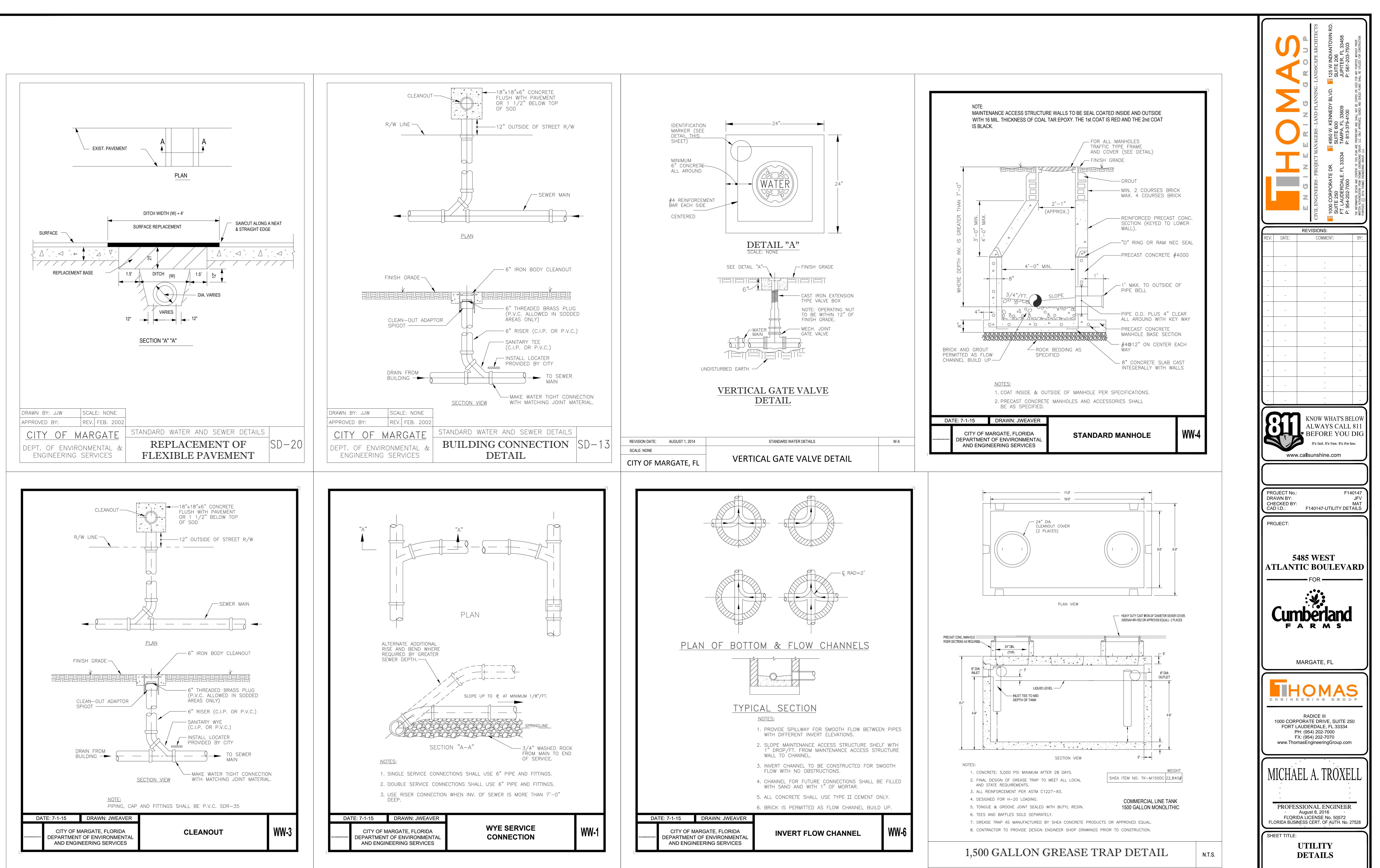
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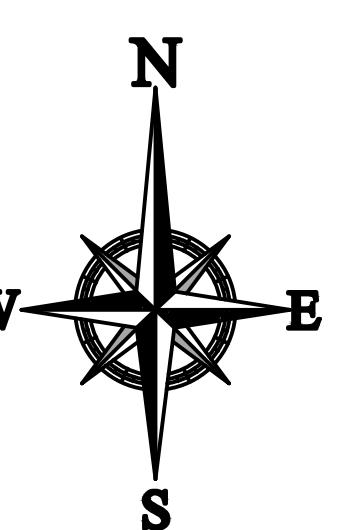
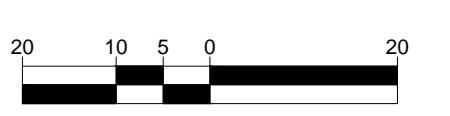
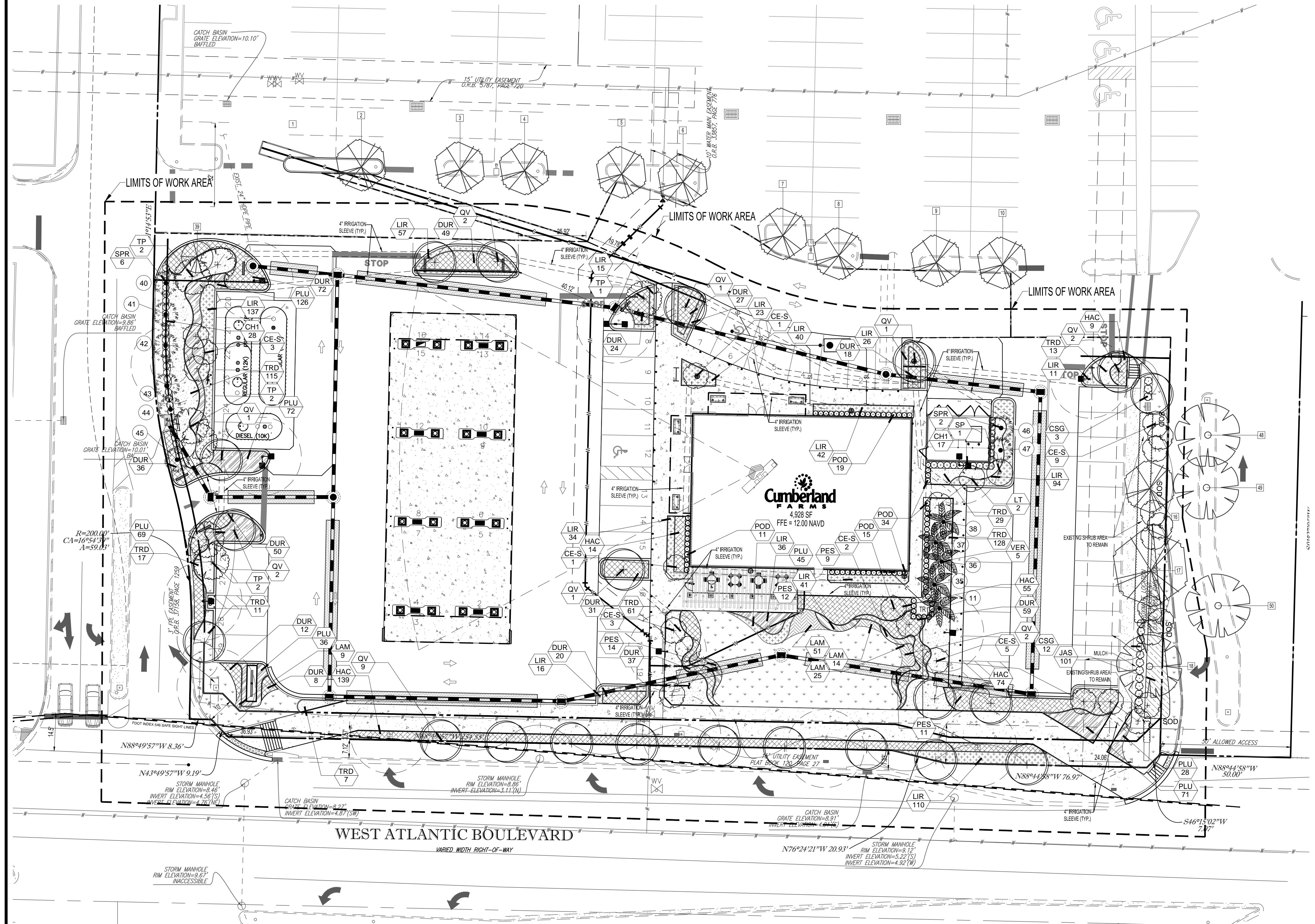
DATE: 07-26-2016

10.1007/s00332-017-9160-0

NOTES:

- 1.) SILT FENCE TO BE CONSTRUCTED WHEREVER OFFSITE AREAS ARE LOWER THAN ADJACENT ONSITE ELEVATIONS.
- 2.) CATCH BASIN FABRIC TO BE PLACED ON AREA INLETS SUBJECT TO SEDIMENTATION FROM THIS PROJECT.
- 3.) ALL EROSION CONTROL DEVICES SUCH AS RUBBLE STRIPS, SILT FENCE AND OTHER BMPS SHALL BE INSTALLED PRIOR. TO CONSTRUCTION.





PROJECT No.: F140147
DRAWN BY: RJK
CHECKED BY: MDG
CAD I.D.: LANDSCAPE PLAN

LAKWOOD PLAZA

Cumberland FARMS

CITY OF MARGATE
BROWARD COUNTY, FL

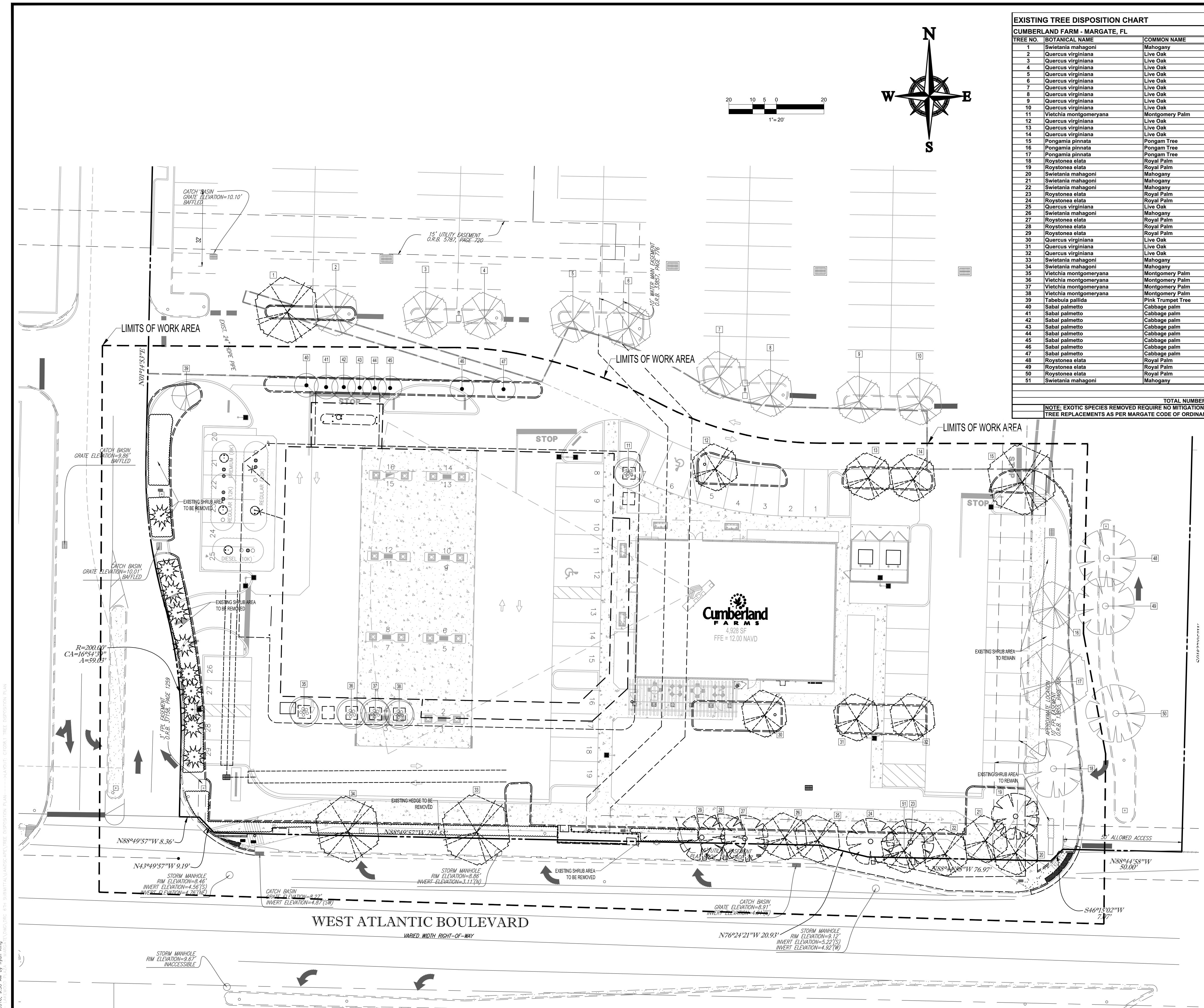
THOMAS
ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33344
PH: (954) 202-7000
FAX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH
REGISTERED LANDSCAPE ARCHITECT
Aug 9, 2016
FLORIDA LICENSE #666871
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE: LANDSCAPE PLAN

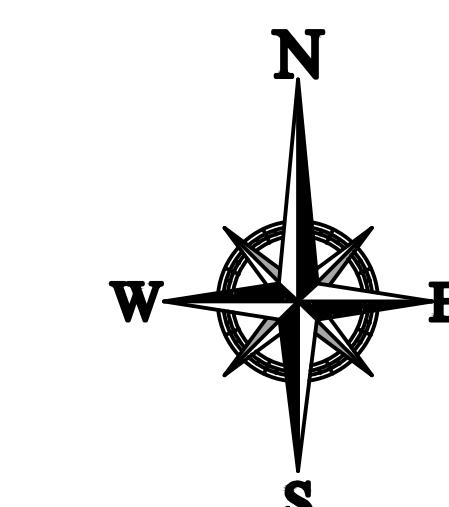
SHEET NUMBER: CFG08.0
DATE: 07-26-2016

THOMAS
ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
1000 CORPORATE DR. #125 WINDINTONING RD.
SUITE 600 TAMPA, FL 33609
P: 813-797-4100 F: 813-797-7503
THE ENGINEERING GROUP AND CIVILS OF THE FLORIDA LANDSCAPE AND SPAN, INC. OF CIVILS OF THE FLORIDA LANDSCAPE AND SPAN, INC. OF THE ENGINEERING GROUP, INC. ARE TRADE NAMES OF THE ENGINEERING GROUP, INC. THE ENGINEERING GROUP, INC. IS A FLORIDA CORPORATION.



EXISTING TREE DISPOSITION CHART									
CUMBERLAND FARM - MARGATE, FL									
TREE NO.	BOTANICAL NAME	COMMON NAME	HT	SPR	DBH	CONDITION	DISPOSITION	CANOPY AREA (sq.ft.)	NOTES
1	Swietenia mahagoni	Mahogany	24	26	18	70%	remove	530.66	OFFSITE WORK AREA
2	Quercus virginiana	Live Oak	15	12	5	70%	REMAIN		OUTSIDE WORK AREA
3	Quercus virginiana	Live Oak	16	14	8	70%	REMAIN		OUTSIDE WORK AREA
4	Quercus virginiana	Live Oak	14	12	8	70%	REMAIN		OUTSIDE WORK AREA
5	Quercus virginiana	Live Oak	14	12	5.5	70%	REMAIN		OUTSIDE WORK AREA
6	Quercus virginiana	Live Oak	14	10	6	70%	REMAIN		OUTSIDE WORK AREA
7	Quercus virginiana	Live Oak	14	14	7	70%	REMAIN		OUTSIDE WORK AREA
8	Quercus virginiana	Live Oak	10	8	6	70%	REMAIN		OUTSIDE WORK AREA
9	Quercus virginiana	Live Oak	12	10	5.5	70%	REMAIN		OUTSIDE WORK AREA
10	Quercus virginiana	Live Oak	8	10	5.5	70%	REMAIN		OUTSIDE WORK AREA
11	Viethchia montgomeryana	Montgomery Palm	22	20	14	70%	Relocate	153.86	Triple Trunk
12	Quercus virginiana	Live Oak	22	20	10	70%	remove	314	
13	Quercus virginiana	Live Oak	16	12	6	70%	remove	113.04	
14	Quercus virginiana	Live Oak	10	8	8	70%	remove	50.24	
15	Pongamia pinnata	Pongam Tree	22	30	12	70%	remove	706.5	EXOTIC
16	Pongamia pinnata	Pongam Tree	15	22	16	70%	REMAIN	379.94	EXOTIC
17	Roystonea elata	Royal Palm	26	30	40	70%	REMAIN	90.26	EXOTIC
18	Roystonea elata	Royal Palm	45	20	14	70%	REMAIN	314	
19	Roystonea elata	Royal Palm	40	18	16	70%	remove	254.34	
20	Swietenia mahagoni	Mahogany	35	36	24	70%	remove	1017.36	
21	Swietenia mahagoni	Mahogany	36	26	16	70%	remove	615.44	
22	Swietenia mahagoni	Mahogany	28	24	14	70%	remove	452.86	
23	Swietenia mahagoni	Mahogany	35	36	15	70%	remove	200.26	
24	Roystonea elata	Royal Palm	38	16	18	70%	remove	254.34	
25	Quercus virginiana	Live Oak	28	26	18	70%	remove	530.66	
26	Swietenia mahagoni	Mahogany	26	22	10	70%	remove	379.94	
27	Roystonea elata	Royal Palm	38	12	16	70%	remove	113.04	
28	Roystonea elata	Royal Palm	34	16	16	70%	remove	133.95	
29	Roystonea elata	Royal Palm	36	16	18	70%	remove	200.96	
30	Quercus virginiana	Live Oak	16	14	8	70%	remove	153.86	
31	Quercus virginiana	Live Oak	16	14	8	70%	remove	153.86	
32	Quercus virginiana	Live Oak	18	16	9	70%	remove	254.34	
33	Swietenia mahagoni	Mahogany	28	30	18	70%	remove	706.5	
34	Swietenia mahagoni	Mahogany	24	20	10	70%	remove	452.86	
35	Viethchia montgomeryana	Montgomery Palm	24	12	11	70%	Relocate	113.04	Double Trunk
36	Viethchia montgomeryana	Montgomery Palm	12	11	70%	Relocate	113.04	Double Trunk	
37	Viethchia montgomeryana	Montgomery Palm	16	10	15	60%	Relocate	78.5	Triple Trunk
38	Viethchia montgomeryana	Montgomery Palm	20	14	10	70%	Relocate	153.86	Double Trunk
39	Tabebuia pallida	Pink Trumpet Tree	14	10	8	70%	REMAIN	78.5	
40	Sabal palmetto	Cabbage palm	18	8	14	70%	Relocate	50.24	
41	Sabal palmetto	Cabbage palm	18	8	14	70%	Relocate	50.24	
42	Sabal palmetto	Cabbage palm	20	10	16	70%	Relocate	78.5	
43	Sabal palmetto	Cabbage palm	20	10	14	60%	Relocate	78.5	
44	Sabal palmetto	Cabbage palm	20	10	12	70%	Relocate	78.5	
45	Sabal palmetto	Cabbage palm	20	9	12	70%	Relocate	63.585	
46	Sabal palmetto	Cabbage palm	20	9	14	60%	Relocate	33.27	
47	Sabal palmetto	Cabbage palm	20	9	14	70%	Relocate	63.585	
48	Roystonea elata	Royal Palm	40	16	12	70%	REMAIN	200.96	
49	Roystonea elata	Royal Palm	40	16	12	70%	REMAIN	200.96	
50	Roystonea elata	Royal Palm	45	20	14	70%	REMAIN	314	
51	Swietenia mahagoni	Mahogany	24	18	8	70%	remove	254.34	

TOTAL APPLICABLE CANOPY ON SITE: 11,384.07
TOTAL APPLICABLE CANOPY TO BE REMOVED: 7,862.26
TOTAL NUMBER OF REQUIRED REPLACEMENT TREES (AT 1,300 sq.ft. OF CANOPY): 24
TREE REPLACEMENTS AS PER MARGATE CODE OF ORDINANCE ARTICLE II, SECTION 23-20



20 10 5 0 20
1'=20'

EXISTING TREE DISPOSITION CHART									
CUMBERLAND FARM - MARGATE, FL									
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23	Swietenia mahagoni	Mahogany	35	36	15	70%	remove	200.26	
24	Roystonea elata	Royal Palm	38	16	18	70%	remove	254.34	
25	Quercus virginiana	Live Oak	28	26	18	70%	remove	530.66	
26	Swietenia mahagoni	Mahogany	26	22	10	70%	remove	379.9	

LANDSCAPE GENERAL NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPEARANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE TO EXISTING PLANTING AREAS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES, PLANTS, OR OTHER PLANT MATERIALS. THE CONTRACTOR SHALL BE PROTECTED FROM DAMAGE TO THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE TO EXISTING PLANTING AREAS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

D. MATERIALS

1. SUBMITTALS: GENERAL SAMPLES OF PLANTING MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BE MADE.

MATERIALS SAMPLE SUBMITTALS

MULCH ONE (1) CUBIC FOOT
TOPSOIL ONE (1) CUBIC FOOT
PLANT MATERIALS: REPRESENTATIVE SAMPLE OF EACH VARIETY

2. PLANT MATERIALS

a) GENERAL: PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY STOCK AS PUBLISHED AND APPROVED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA NO. 1 AS AN ABSOLUTE MINIMUM UNLESS OTHERWISE SPECIFIED. PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS AND FREE OF DISEASE AND INSECTS. INSECT EGGS AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEM. TREES FOR PLANTING SHALL BE SHIPPED IN CONTAINERS. PLANTS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE APPROVED FOR THE VARIETY AND CALIBER PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

b) MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE TOP OF ROOTBALL (TRUNK FLARE) AND/OR ACROSS THE AVERAGE SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH PLANTS LARGER THAN THOSE LISTED IN THE PLANT LIST. THE USE OF LARGER PLANTS IS APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c) INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER. FOR QUALITY, SIZE, AND VARIETY, SUCH PRE-DELIVERY APPROVAL SHALL NOT SUPPLY THE RIGHT OF INSPECTION AND APPROVAL AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES, PRESENCE OF INSECTS, AND OTHER DEFECTS. PLANTS WHICH FAIL INSPECTION AND APPROVAL, OR ARE REJECTED, SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

d) AMENDED PLANTING SOIL: PLANTING SOIL FOR USE IN BACK FILLING PLANTING HOLES SHALL BE FORTY PERCENT (40%) TOPSOIL AND SIXTY PERCENT (60%) SAND AND BERMUDIAN SOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL MATERIALS AND OBTAINED FROM WELL-DRINED, ARABLE SITE. PLANTING SOIL SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME, LUMPS, PLANT RESIDUE, OTHER FOREIGN MATERIALS, OR NOxious WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE.

e) SAND: SHALL BE CLEAN WELL DRAINING SAND IF REQUESTED. CONTRACTOR SHALL AT ANY TIME AND AT NO COST TO OWNER SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY OWNER.

E. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL NATURAL OR MAN-MADE ELEMENTS DETERIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE PROVIDED BY THE OWNER. IF THE OWNER IS UNABLE TO PROVIDE WATER, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

F. COMMERCIAL FERTILIZER

1. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA. IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DELIVERED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:

1. SHRUBS AND TREES - MILORGANITE, OR APPROVED EQUAL.
2. ANNUALS AND GROUNDCOVERS - OSMOCOTE/SIERRA BLEND 14-14-14.

3. SOIL AMENDMENT - 14-0-0.

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIALS SHALL RECEIVE AGRIFORM PLANTING TABLETS 24-10-6 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE APPLIED AT THE RATE AND DEPTH SPECIFIED BY MANUFACTURER.

G. MULCH

1. MULCH SHALL BE FROM SHREDDED WOOD DERIVED FROM MELALEUCA OR OTHER INVASIVE TREE SPECIES AND SHALL BE STERILIZED TO EFFECTIVELY ELIMINATE ALL SEEDS, SPORES, ETC. AND RENDER THEM BARREN.

2. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE INCHES (3").

3. MULCH SHALL BE GRADE 'B' SHREDDED, AND SHALL BE APPLIED EVENLY AND SMOOTH TO PLANTED AREAS.

4. NO RED OR COLORED MULCH SHALL BE ACCEPTED UNLESS SPECIFIED ACCORDINGLY. NO CYRESS MULCH SHALL BE USED.

H. DIGGING AND HANDLING

1. PROTECT ROOT SYSTEMS OR ROOTBALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING OUT. PLANTS SHALL NOT BE PLANTED UNTIL PLANTED. PLANTS UNTIL PLANTING PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKING AND DRYING OUT DURING LOADING, TRANSIT, AND UNLOADING/PLANTING TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN

LANDSCAPE GENERAL NOTES

ANTRITRANSPIRANT PRODUCT ('WILPRUF' OR EQUAL) TO MINIMIZE TRANSPRATIONAL WATER LOSS.

2. BACKFILL BURLAP PLANTS (BBB) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROSUS AND FEEDING ROOTS OF THE PLANTS, AND IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS FLORIDA PUBLICATION. NO PLANT WITH A ROOTBALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED 'BR' IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE WITHIN THE MAXIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEARING TRUNK (CT) SHALL BE AS 'GRADE' AS POSSIBLE AND STANDARDS FOR NURSERY PLANTS FLORIDA PUBLICATION. PRUNING PRACTICES OTHER THAN MINIMAL PRUNING OF CROWN PRIMARILY TO REMOVE TRUNK DEFECTS AS SPECIFICATION, MAY CONSTITUTE REJECTION, OR ALL PALMS SUBJECT TO SUCH PRACTICE, LIKewise EXCESSIVE PRUNING OR 'SHAVING' ROOTBALLS TO MEET 'GRADE' STANDARDS SHALL BE REJECTED. PLANTS WITH BARE ROOTS SHALL BE BRAVED PER PALM PLANTING DETAIL ON THE PLANTING DETAILS SHEET.

5. EXCAVATION OF PLANTING HOLES SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR Hardscape ELEMENTS, FOOTERS, AND PREPARED SUB-BASES

I. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE IN GOOD QUALITY AND ARE IN A HEALTHY GROWING POSITION. PLANTS SHALL MEET THE GRADE AND SIZE SPECIFICATION AS LISTED.

2. AN EXCAVATED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALT NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NEED AUTHORIZATION FROM THE OWNER.

J. COLLECTED STOCK

1. WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOT BALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

K. NATIVE STOCK

1. PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED GROWING IN THE WILD AND NOT SUBJECT TO PLANTING. PLANTS SHALL BE PLANTED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

L. MATERIALS LIST

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR ERRORS OR ERRORS IN QUANTITY ESTIMATES. THE CONTRACTOR SHALL NOT BE HELD LIABLE FOR QUANTITY LIST QUANTITY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSION OF BIDS. DRAWING SHALL TAKE PRECEDENCE. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

M. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. GRADING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROCK AND GRADE UP TO FINAL FINISHED GRADE. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO THE DEPTH OF THREE INCHES (3") AND MAKE A DENSE, DURABLE, AND DENSE DRAINAGE SURFACE.

3. SOILING: THE CONTRACTOR SHALL SOIL ALL FERVIDUS AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS TO CREATE A UNIFORM, NEW TURF BLANKET FOR THE SITE.

4. THE SOIL SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS, AND DISEASE OF ANY KIND. SOIL PANELS SHALL LAID TIGHTLY TOGETHER TO MAKE A SOIL, SOODED LAWN AREA.

5. SOIL SHALL BE LAID IN ROWS, WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOIL TO INSURE A TIGHT FIT AT JOINTS.

6. SOIL SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURB AND OTHER Hardscape ELEMENTS, PAVED AND PLANTED AREAS ADJACENT TO BUILDINGS, SWIMMING POOLS, MULTILEVEL STAIRS, ETC. IMMEDIATELY FOLLOWING SOIL LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER.

7. SOIL PREPARATION: PREPARE LOOSE BED FOUR INCHES (4") DEEP, APPLY FERTILIZER AT A RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM UTILIZING COMMERCIAL BROADCAST SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE INCHES (3") AND MAKE A DENSE, DURABLE, AND DENSE DRAINAGE SURFACE.

8. SOILING: THE CONTRACTOR SHALL SOIL ALL FERVIDUS AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS TO CREATE A UNIFORM, NEW TURF BLANKET FOR THE SITE.

9. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROCK AND GRADE UP TO FINAL FINISHED GRADE. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO THE DEPTH OF THREE INCHES (3") AND MAKE A DENSE, DURABLE, AND DENSE DRAINAGE SURFACE.

10. SOIL SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS, AND DISEASE OF ANY KIND. SOIL PANELS SHALL LAID TIGHTLY TOGETHER TO MAKE A SOIL, SOODED LAWN AREA.

11. SOIL SHALL BE LAID IN ROWS, WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOIL TO INSURE A TIGHT FIT AT JOINTS.

12. SOIL SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURB AND OTHER Hardscape ELEMENTS, PAVED AND PLANTED AREAS ADJACENT TO BUILDINGS, SWIMMING POOLS, MULTILEVEL STAIRS, ETC. IMMEDIATELY FOLLOWING SOIL LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER.

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16. SOIL SHALL BE LAID IN ROWS, WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOIL TO INSURE A TIGHT FIT AT JOINTS.

17. SOIL SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURB AND OTHER Hardscape ELEMENTS, PAVED AND PLANTED AREAS ADJACENT TO BUILDINGS, SWIMMING POOLS, MULTILEVEL STAIRS, ETC. IMMEDIATELY FOLLOWING SOIL LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER.

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19. SOIL SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS, AND DISEASE OF ANY KIND. SOIL PANELS SHALL LAID TIGHTLY TOGETHER TO MAKE A SOIL, SOODED LAWN AREA.

20. SOIL SHALL BE LAID IN ROWS, WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOIL TO INSURE A TIGHT FIT AT JOINTS.

N. PLANTING PROCEDURES

1. CLEAN UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIVE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE PLANTING CONTRACTOR TO FURTHER DETERMINE THE SOURCE OF THE SOIL AND TAKE APPROPRIATE ACTION.

2. PLANTING: PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

O. PLANTING

1. CLEAN UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIVE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE PLANTING CONTRACTOR TO FURTHER DETERMINE THE SOURCE OF THE SOIL AND TAKE APPROPRIATE ACTION.

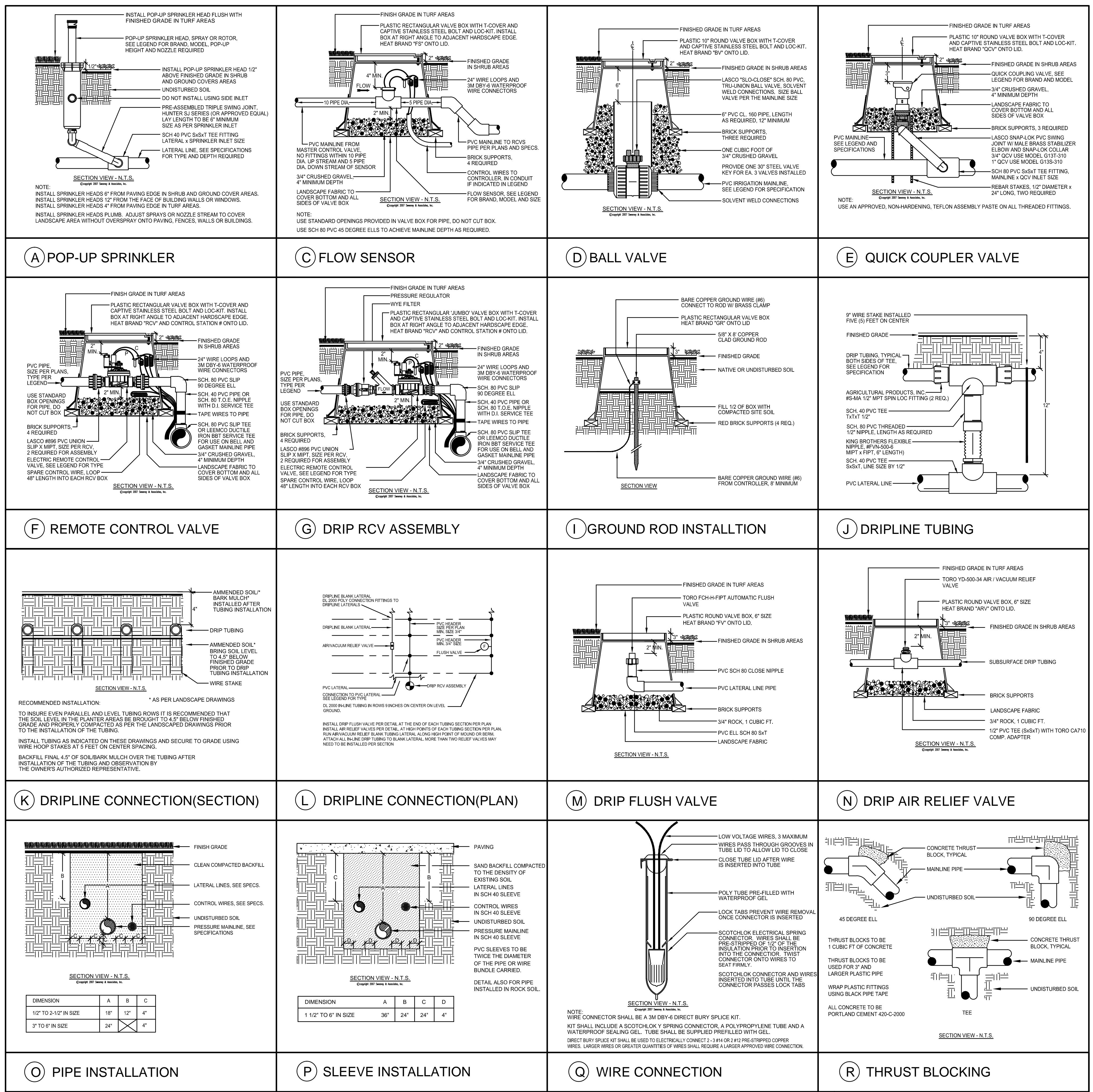
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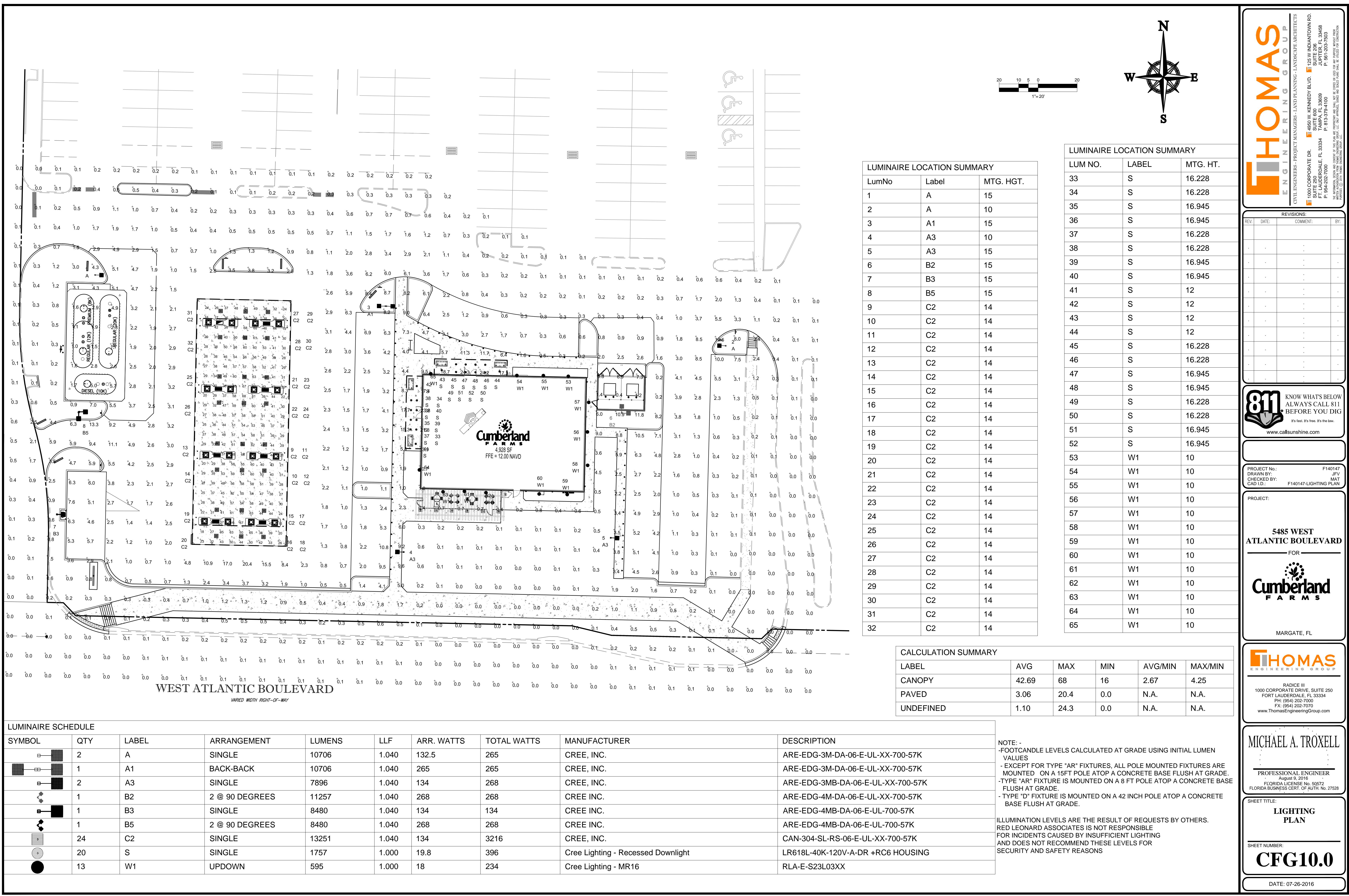
P. CLEANUP

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM THE PLANTING PROCESS TO THE SITE. THE CONTRACTOR SHALL BROOM CLEAN AND LEAVE A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

Q. PLANT MATERIAL MAINTENANCE

1. ALL PLANTS AND PLANTING MATERIALS INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS AS RE-REQUIRED.





AREA

SYMBOL	QTY	LABEL
1	1	A

ARE-EDG-3M-DA-06-E-UL-XX-700-57K

SYMBOL	QTY	LABEL
1	1	A2

ARE-EDG-3A-DA-06-E-UL-XX-700-57K

SYMBOL	QTY	LABEL
1	1	A3

ARE-EDG-3MB-DA-06-E-UL-XX-700-57K

SYMBOL	QTY	LABEL
1	1	B

ARE-EDG-4M-DA-06-E-UL-XX-700-57K

SYMBOL	QTY	LABEL
1	1	B2

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

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SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

ARE-EDG-4MB-DA-06-E-ULXX--700-57K

SYMBOL	QTY	LABEL
1	1	B3

CANOPY

CLICK HERE
FOR PRODUCT INFO

PATHWAY

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FOR PRODUCT INFO

SOFFIT

CLICK HERE
FOR PRODUCT INFO

WALL MOUNTED

CLICK HERE
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AREA

CANOPY

PATHWAY

SOFFIT

WALL MOUNTED

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FORT LAUDERDALE, FL 33344
P: (954) 202-7000
F: (954) 202-7070
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MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
August 8, 2016
FLORIDA LICENSE NO. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET NUMBER:
CFG10.1
DATE: 07-26-2016
LIGHTING PLAN
DETAILS

Printed on Monday, August 08, 2016 8:08 PM by Keith Brown

MARSHALL FARMS — MARSHALL FARMS — FLORIDA

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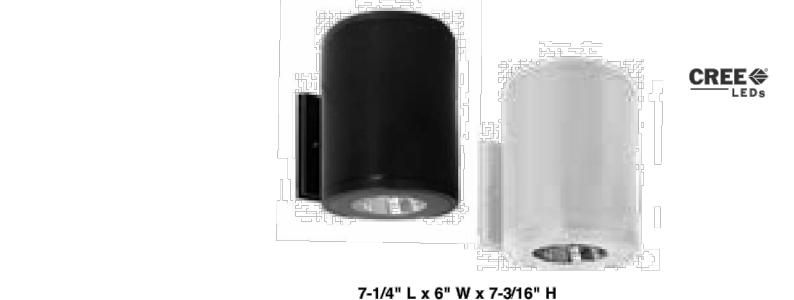
WALL MOUNTED

SYMBOL	QTY	LABEL
●	10	W1

RLA-E-S23L03XX

LED DECORATIVE WALL SCONCE-UP AND DOWN, LARGE
34-WATT LED
RLA-E-S23 SERIES

Applications – Ideal for illumination along steps, walkways and entry ways
Typical Mounting Height: 8 to 15 feet Typical Spacing: 1 to 2 times the mounting height



Catalog #	Description	Input Voltage	Delivered Lumen Output	CCT	CRI	Estimated Lifetime (L70)	Weight
RLA-E-S23L0303W (White)	34W (Total) LED Warm White	Universal 120-277V	2600 Lumens (Total)	3000K	80	100,000+ Hours	6.2 lbs
RLA-E-S23L0303UK (Black)	34W (Total) LED Neutral White	Universal 120-277V	2600 Lumens (Total)	4000K	80	100,000+ Hours	6.2 lbs

Features							
<ul style="list-style-type: none"> Estimated 100,000+ hours of maintenance-free operation to L70 Up and down light effect with a smooth, even glow Dimmable with most 0-10V dimmers Die-cast aluminum mounting box with extruded aluminum housing Tempered glass lens, thermal shock and impact resistant Universal voltage (120V through 277V) Mounts to any smooth, flat surface Supplied with back mounting plate to mount over a 4" square or 2" octagonal junction box Cree LEDs included 25-degree beam spread Silicon gasket provides a water tight seal UV-stabilized polycarbonate lens Tempered glass lens, thermal shock and impact resistant Universal voltage (120V through 277V) Mounts to any smooth, flat surface Supplied with back mounting plate to mount over a 4" square or 2" octagonal junction box Cree LEDs included 25-degree beam spread 							

Accessories							
None Available							

5630 Bridgetown Rd, Ste 2 | Cincinnati, OH, 45248 | 513-574-9500

red leonard associates



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PROJECT No.: F140147
DRAWN BY: JFV
CHECKED BY: MAT
CAD I.D.: F140147-LIGHTING PLAN

PROJECT:

5485 WEST
ATLANTIC BOULEVARD



MARGATE, FL

PROJECT
F140147
DRAWN BY: JFV
CHECKED BY: MAT
CAD I.D.: F140147-LIGHTING PLAN

PROJECT:

5485 WEST
ATLANTIC BOULEVARD

MICHAEL A. TROXELL

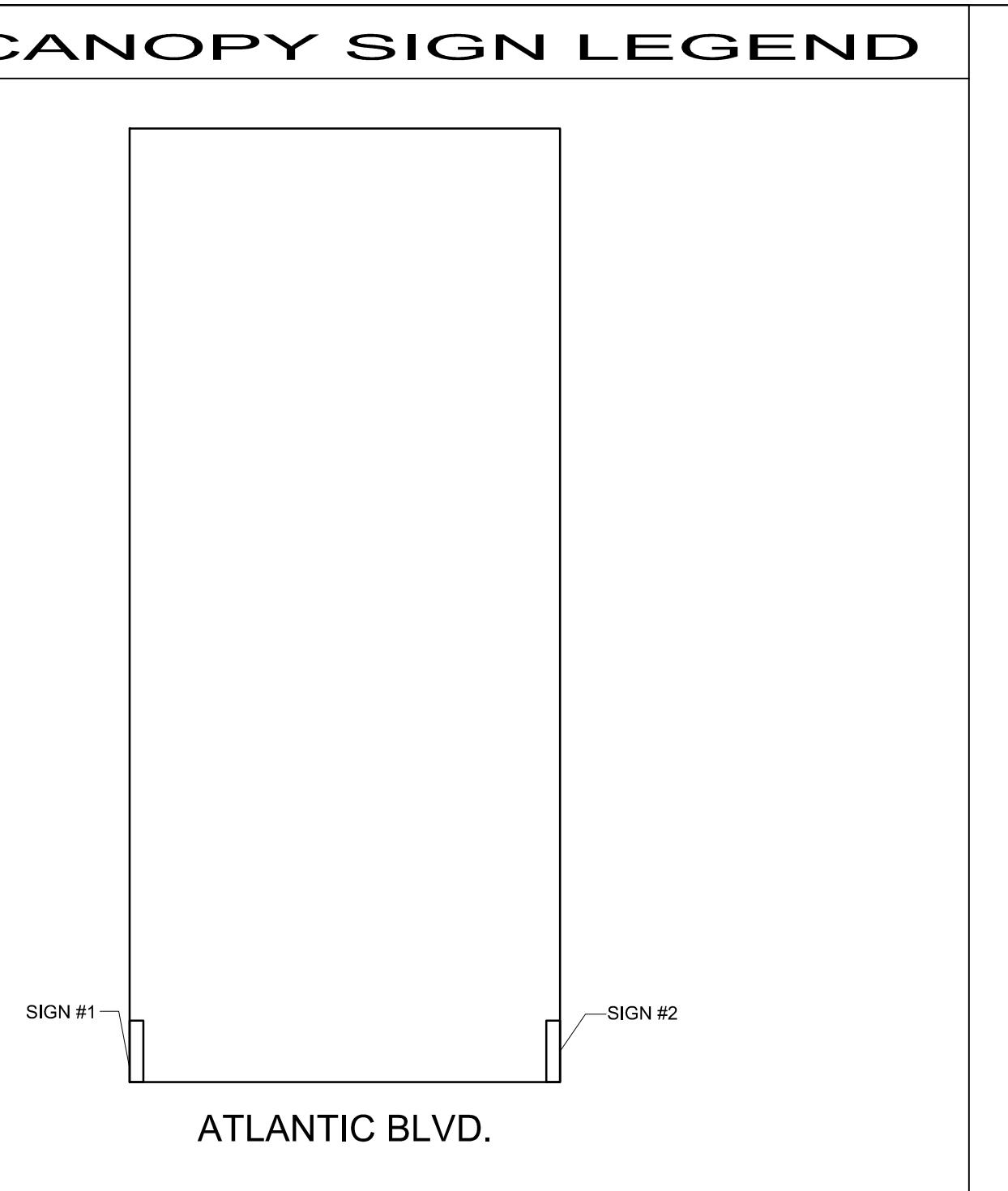
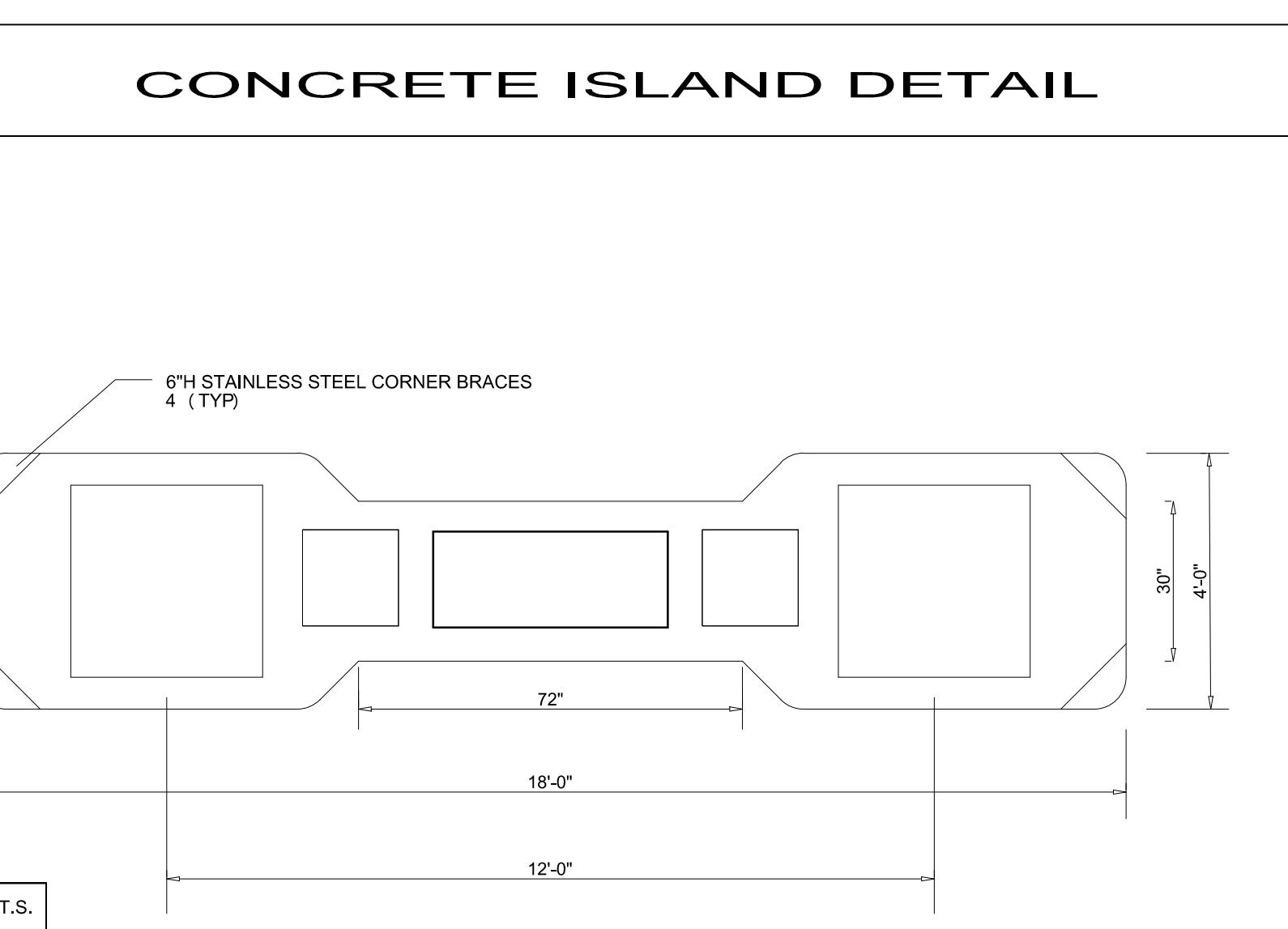
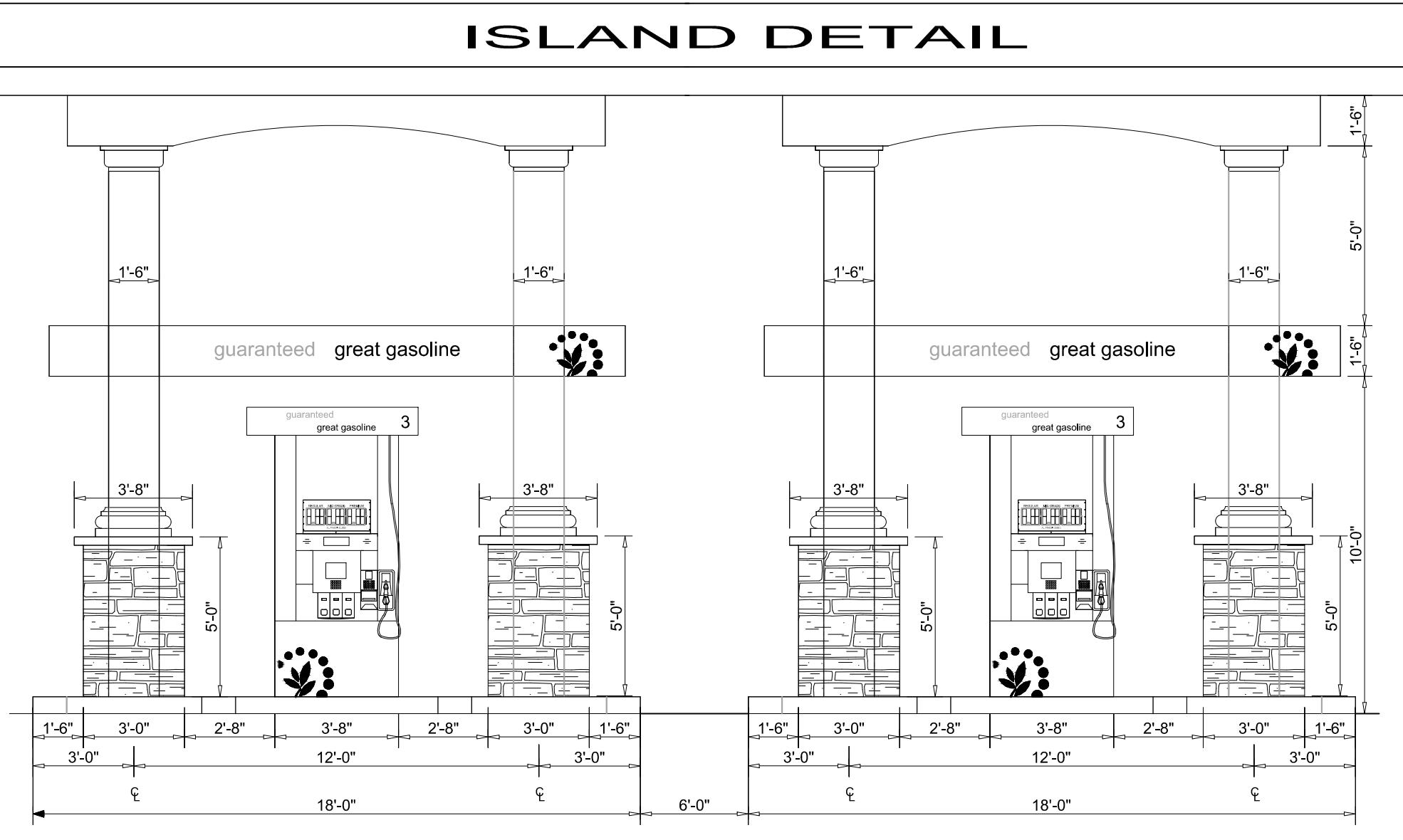
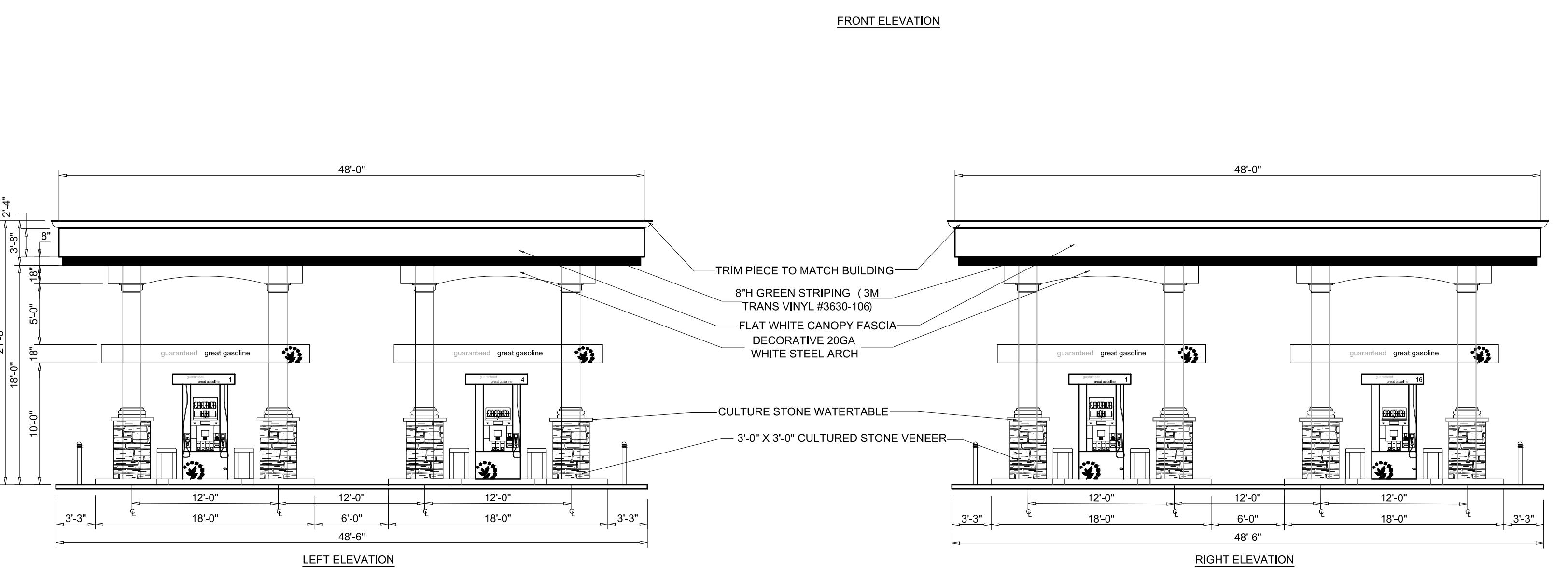
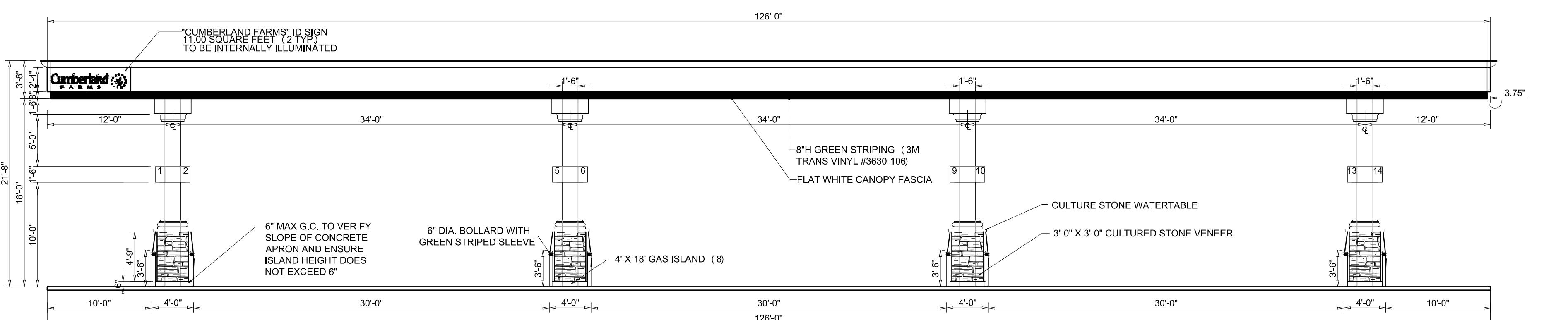
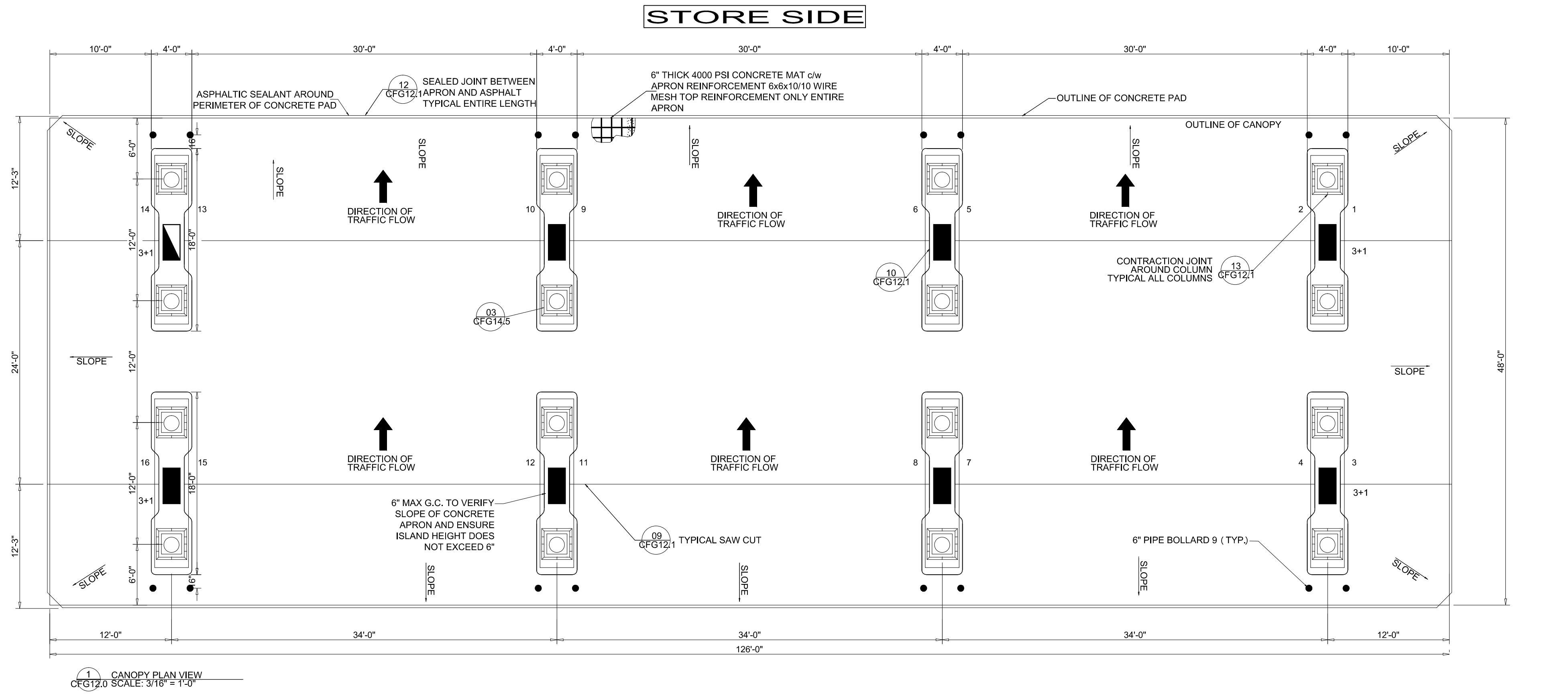
PROFESSIONAL ENGINEER
August 8, 2016
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
LIGHTING PLAN
DETAILS

SHEET NUMBER:
CFG10.2

DATE: 07-26-2016

THOMAS
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CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTURE

F140147-JFV
MAT
F140147-CANOPY

5485 WEST

The logo for Nimberland ARMS features a circular emblem at the top containing a stylized leaf or flower design. Below the emblem, the word "nimberland" is written in a lowercase, bold, sans-serif font. Underneath "nimberland", the letters "A R M S" are displayed in a smaller, all-caps, bold, sans-serif font.

The logo for Thomas Engineering Group. It features the word "THOMAS" in a large, bold, orange sans-serif font. Below it, the words "ENGINEERING GROUP" are written in a smaller, grey, all-caps sans-serif font.

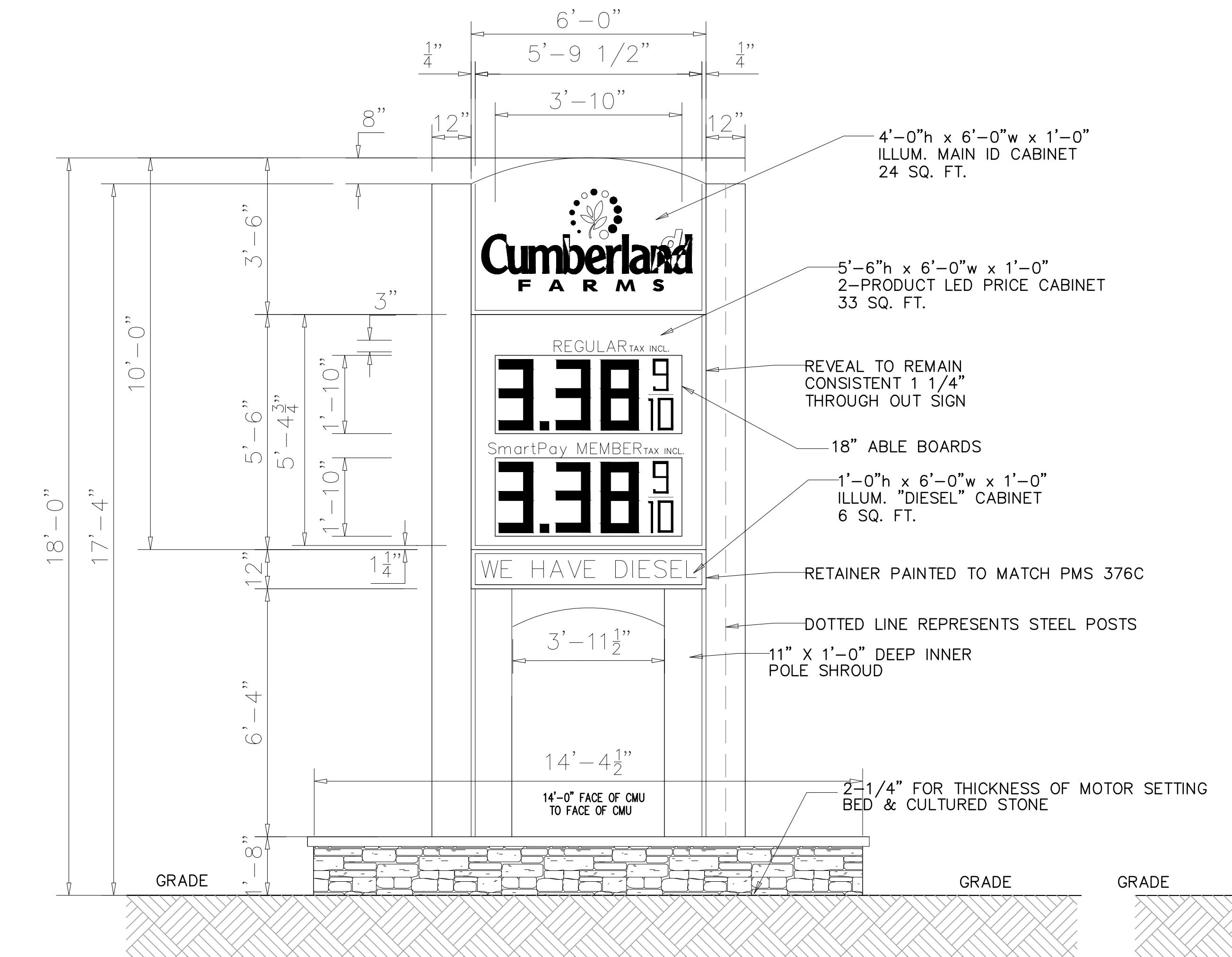
EL A. TROXELL

PROFESSIONAL ENGINEER
August 8, 2016
PIDA LICENSE No. 50572
BUSINESS CERT. OF AUTH. No. 27528

CANOPY LEVELS

BER:

DATE: 07-26-2016



FRONT VIEW

SIGN SQ.FT
CUMBERLAND FARMS - 21.11 SQ. FT.
PRICE CABINET - 34.75 SQ. FT.
PRICE CABINET - 5.79 SQ. FT.
MESSAGE CENTER - 16.50 SQ. FT.
TOTAL - 78.15 SQ. FT.

NOTE:

SEE SHEET A05 AND S41 FOR FOUNDATION AND STRUCTURAL DETAILS
THESE PLANS WILL BE PREPARED PRIOR TO FILING FOR A BUILDING PERMIT

ID&GAS PRICE SIGN ELECTRICAL REQUIREMENTS

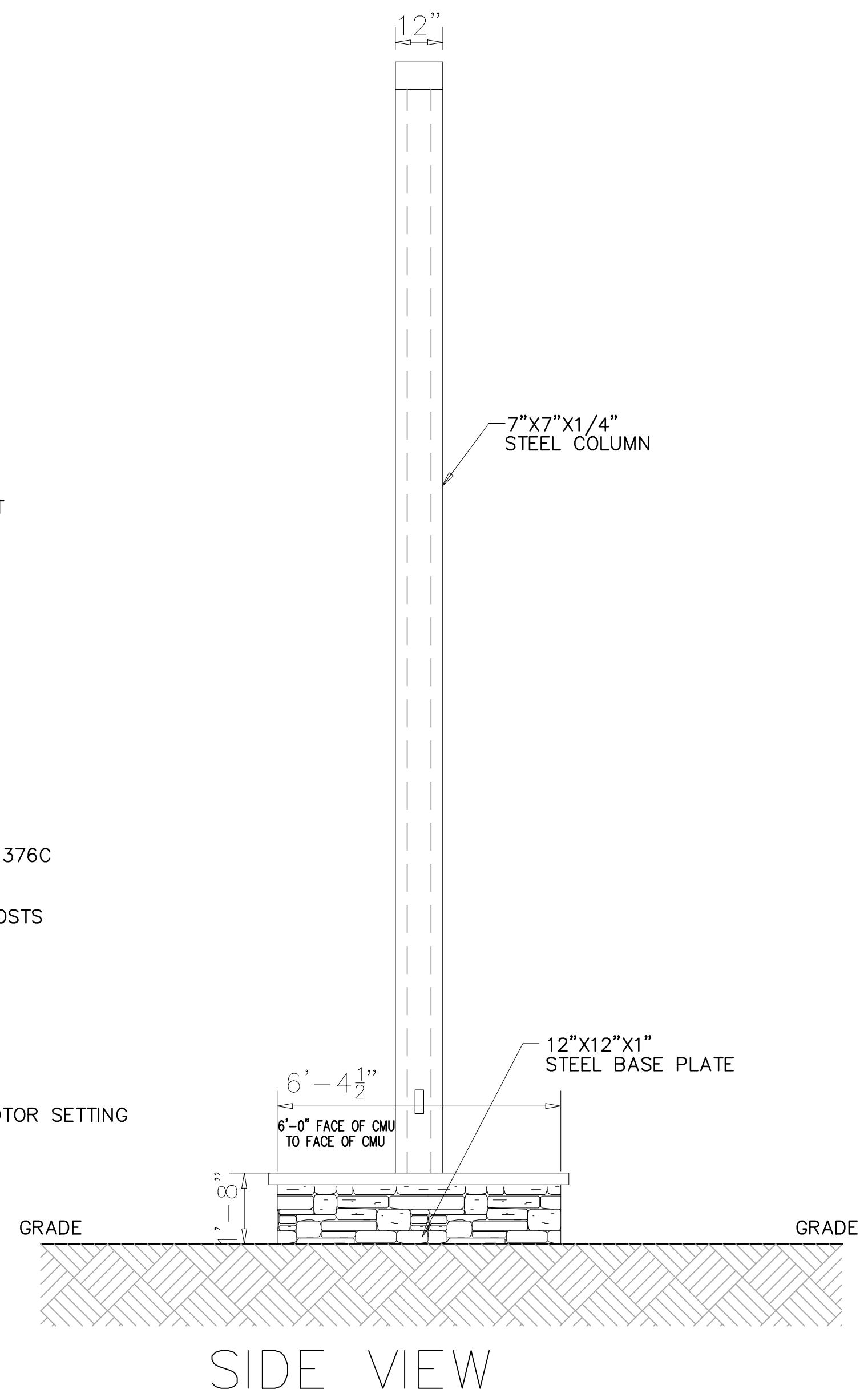
- 1" PVC CONDUIT W/ 3#10 AND #10 GROUND (20 AMP)
- 1" PVC CONDUIT 'SPARE' W/PULL STRINGS
- 1" WEATHER PROOF JUNCTION BOX

ELECTRONIC MESSAGE BOARD SYSTEM/CABLE REQUIREMENTS

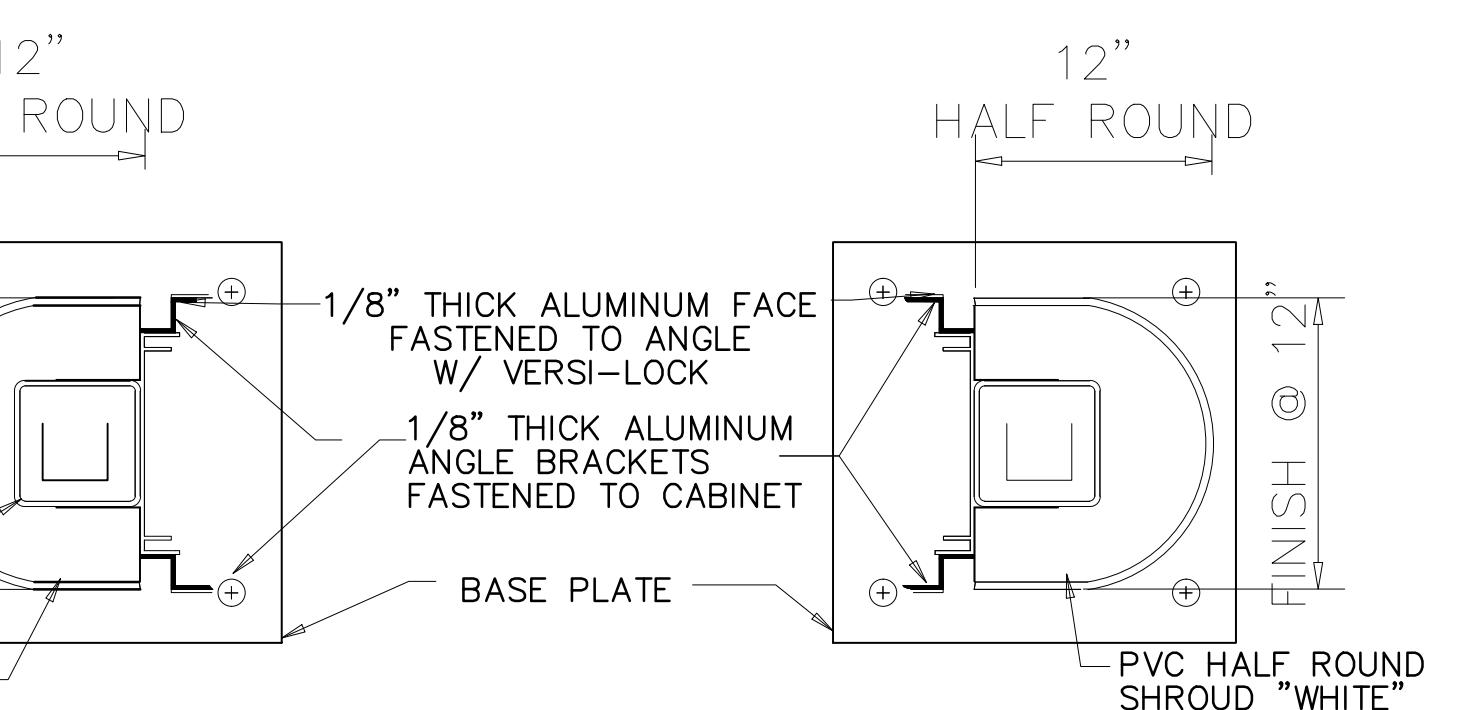
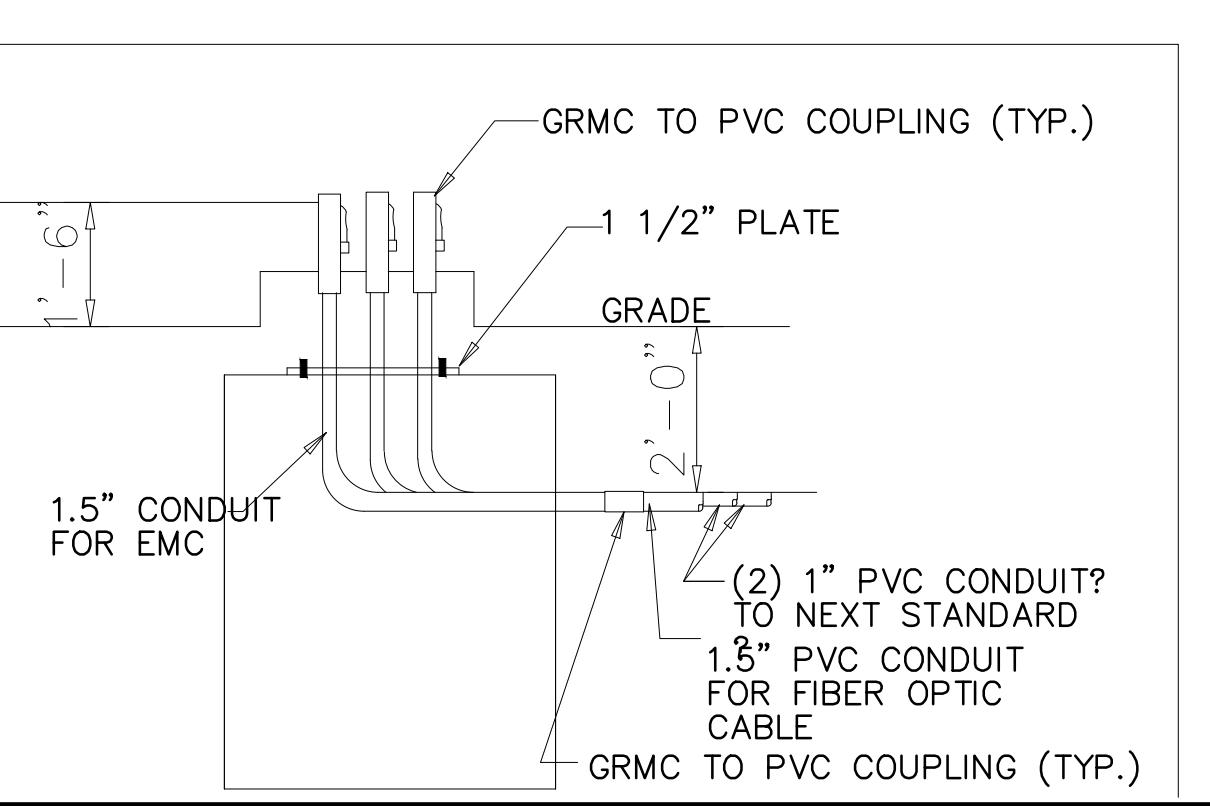
ONE MEDIA CONVERTER IS NEEDED TO CONVERT THE ETHERNET SIGNAL FROM THE SWITCH (OR COMPUTER) TO FIBER-OPTIC SIGNAL, AND THEN A SECOND MEDIA CONVERTER IS LOCATED IN THE SIGNAL TERMINATION ENCLOSURE TO CONVERT THE FIBER-OPTIC SIGNAL BACK TO ETHERNET. A MINIMUM OF TWO 62.5UM FIBER-OPTIC CABLES WITH ST STYLE CONNECTORS ARE REQUIRED. DAKTRONICS OFFERS FIBER-OPTIC CABLES WHICH MAY BE BURIED EITHER DIRECTLY OR IN CONDUIT, BUT SHOULD NOT BE SUBJECTED FIBER-OPTIC SIGNAL CABLES AND POWER WIRES CAN BOTH BE ROUTED THROUGH THE SAME CONDUIT.

SPECIFICATIONS

- * 12" DEEP ALUMINUM FABRICATED SIGN CABINET W/INTERNAL, HIGH OUTPUT FLUORESCENT ILLUMINATION..CABINET PAINTED WHITE
- * 1/8" ALUMINUM CAM ROUTED SIGN FACES, "CUMBERLAND FARMS" ROUTED TEXT AND LOGO
- * CLEAR ACRYLIC PUSH THRU(1/2"-5/8" EXPOSED) "CUMBERLAND" TEXT TO RECEIVE TRANSLUCENT VINYL OVERLAY 3M BLUE..LOGO "FARMS" VINYL
- * SIGN TO INSTALL BETWEEN NEW 8" SQUARE STEEL COLUMNS..INCLUDES NEW HALF ROUND PVC POLE COVERS, INNER ARCHED ALUMINUM FILLER AND



SIDE VIEW



COLUMN SHROUD DETAIL

STRUCTURAL STEEL SPECIFICATIONS:

- SUPPORT MEMBERS SHALL BE FREE FROM DEFECTS. TUBE SHALL MEET ASTM A500 GRADE B, WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI. PIPE SHALL MEET ASTM A53 GRADE B, WITH MINIMUM YIELD STRENGTH OF 35,000 PSI. PLATE AND ANGLE SHALL MEET ASTM A36.
- STRUCTURAL BOLTS SHALL BE ZINC COATED A325UNLESS OTHERWISE NOTED.
- WELDS SHALL BE MADE WITH E70XX ELECTRODES BY PERSONS QUALIFIED IN ACCORDANCE WITH AWS STANDARDS WITHIN THE PAST (2) TWO YEARS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 WITH DEFORMATIONS IN ACCORDANCE WITH ASTM A-35. WELDING OF REINFORCING BARS IS PROHIBITED.
- ANCHOR BOLTS SHALL BE ASTM F1554-07 GRADE 55 ROUND STOCK. EXPOSED SURFACES SHALL BE GALVANIZED OR HAVE BITUMINOUS COATING TO PREVENT CORROSION.

AREA/WEIGHT	ELECTRICAL
SIGN SQUARE FOOTAGE 80 SQ. FT. ESTIMATED SIGN WEIGHT 600 LBS	AMPS: 7 AMPS V.A.: 120 VOLTS WATTS: 840 CIRCUITS: 2:20 amp CIRCUITS

FOUNDATION NOTE:
3000 PSI CONCRETE @ 28 DAYS
2000 PSF SOL BEARING
150 PSF/FT SOIL LATERAL BEARING UNDISTURBED SOIL.

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF SIGN.

SPREAD FOUNDATION:
4'3" x 14'4" x 6'3"
CONCRETE REQUIRED:
14.3 CU. YD.

SIGN BASED ON DESIGN LOADS: 2014 FLORIDA BUILDING CODE, SECTION 16 WIND LOAD, RISK CATEGORY II, EXPOSURE C, ASCE 7-10, 150 mph. SOIL RESISTANCE 150 PSF/FT.

ALTERNATE AUGER FOUNDATION:
(2) 3'-0" Dia. x 6'-6" Deep
W/ 10'-0" x 3'-0" x 8' Deep CONCRETE PAD
CONCRETE REQUIRED:
6.4 CU. YD.



PROJECT No.: F140147
DRAWN BY: JFV
CHECKED BY: MAT
CADD I.D.: F140147-SIGN DETAILS

PROJECT:

5485 WEST ATLANTIC BOULEVARD
FOR



MARGATE, FL

THOMAS
ENGINEERING GROUP

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PROFESSIONAL ENGINEER
August 8, 2016
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FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:

SIGN DRAWING

SHEET NUMBER:

CFG13.0

DATE: 07-26-2016

