

SITE DEVELOPMENT DRAWINGS FOR:

ALDI #13

CONGRESS BUSINESS PARK P.U.D.

LAKE PARK

PALM BEACH COUNTY, FL

SECTION 19, TOWNSHIP 42 S, RANGE 43 E

FOR

ALDI FLORIDA, INC

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
1000 CORPORATE DR.
SUITE 250
FT. LAUDERDALE, FLORIDA 33334

4950 W. KENNEDY BLVD.
SUITE 600
TAMPA, FLORIDA 33609

REVISIONS:			
REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

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

www.callsunshine.com

ENTITLEMENT

PROJECT No.:	F140008
DRAWN BY:	AAM
CHECKED BY:	BU
DATE:	02/14/14
CAD I.D.:	F140008 - COVER

PROJECT:
ALDI #13
CONGRESS BUSINESS
PARK P.U.D.

FOR



CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP

RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

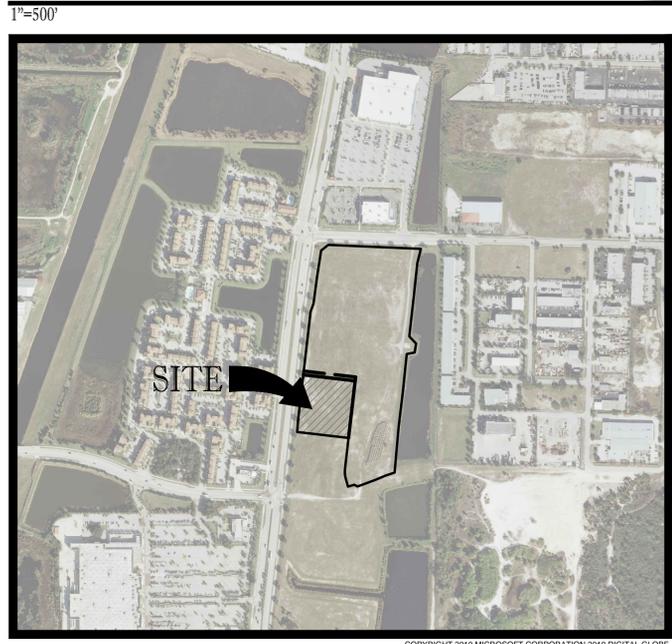
BRANDON ULMER

PROFESSIONAL ENGINEER
10142014
FLORIDA LICENSE No. 68345
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
C-1

VICINITY \ AERIAL MAP



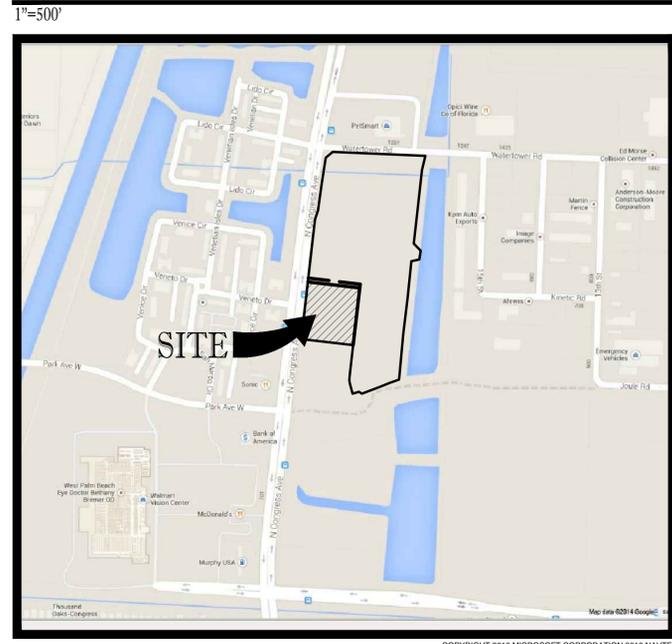
PROPERTY DESCRIPTION

A PARCEL OF LAND LYING IN SECTION 19, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 19; THENCE ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 19, SOUTH 01°21'11" WEST, A DISTANCE OF 1350.58 FEET TO A POINT ON A NON-TANGENT CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 865.00 FEET AND A CHORD BEARING OF SOUTH 78°17'08" WEST; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 26°10'40", A DISTANCE OF 385.21 FEET TO A POINT ON A NON-TANGENT LINE; THENCE SOUTH 69°05'29" WEST, A DISTANCE OF 90.21 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 800.00 FEET; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 02°00'03", A DISTANCE OF 27.84 FEET TO A POINT ON A NON-TANGENT LINE; THENCE NORTH 69°45'28" WEST, A DISTANCE OF 20.74 FEET TO A POINT ON A NON-TANGENT CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 785.00 FEET AND A CHORD BEARING OF SOUTH 73°29'35" WEST; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 02°51'04", A DISTANCE OF 39.06 FEET TO A POINT ON A NON-TANGENT LINE; THENCE NORTH 15°04'50" WEST, A DISTANCE OF 60.57 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 100.00 FEET; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 21°18'02", A DISTANCE OF 37.18 FEET TO THE POINT OF TANGENCY; THENCE NORTH 06°13'12" EAST, A DISTANCE OF 191.19 FEET TO THE POINT OF BEGINNING; THENCE NORTH 83°48'48" WEST, A DISTANCE OF 305.83 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF CONGRESS AVENUE AS DESCRIBED IN OFFICIAL RECORD BOOK 10729, PAGE 6, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE ALONG SAID EASTERLY RIGHT OF WAY LINE, NORTH 04°48'20" EAST, A DISTANCE OF 77.82 FEET; THENCE CONTINUE ALONG SAID EASTERLY RIGHT OF WAY LINE, NORTH 06°13'12" EAST, A DISTANCE OF 282.40 FEET; THENCE DEPARTING SAID EASTERLY RIGHT OF WAY LINE, SOUTH 83°48'48" EAST, A DISTANCE OF 307.75 FEET; THENCE SOUTH 06°13'12" WEST, A DISTANCE OF 360.00 FEET TO THE POINT OF BEGINNING.

CONTAINING IN ALL 110,716 SQUARE FEET OR 2.54 ACRES MORE OR LESS.

LOCATION MAP



PREPARED BY

THOMAS
ENGINEERING GROUP

RADICE III
1000 CORPORATE DRIVE, SUITE 250
FT. LAUDERDALE, FL. 33334

PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

SHEET INDEX

PLANS BY THOMAS ENGINEERING GROUP:	
COVER SHEET	C-1
GENERAL NOTES	C-2
SITE PLAN	C-3
SITE PLAN DETAILS	C-4
PAVING, GRADING & DRAINAGE PLAN	C-5
PAVING, GRADING & DRAINAGE DETAILS	C-6
CROSS SECTIONS	C-7
WATER & SEWER PLAN	C-8
WATER & SEWER DETAILS	C-9
EROSION CONTROL PLAN	C-10
SITE PHOTOMETRICS	C-11
LANDSCAPE PLANTING PLAN	LP-1
LANDSCAPE PLANTING DETAILS	LP-2
LANDSCAPING GENERAL NOTES	LP-3
IRRIGATION PLAN	LI-1
IRRIGATION SCHEDULES & NOTES	LI-2
IRRIGATION DETAILS	LI-3
PLANS BY LIDBERG LAND SURVEYORS, INC.	
LAND SURVEY	1 of 1
PLANS BY CUHACI & PETERSON	
OPERATIONS PLAN (FLOOR PLAN)	A-131
BUILDING ELEVATIONS	A-201
BUILDING SECTION	A-202
MONUMENT SIGN	MS100

ALL ELEVATIONS ARE BASED ON
NATIONAL GEODETIC VERTICAL
DATUM OF 1929 (NGVD29)

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:
ALTAACSM LAND TITLE SURVEY - BY LIBBERG LAND SURVEY, INC DATED 12-8-14.
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. 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 PRECEDENCE 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. ALTAACSM LAND TITLE SURVEY, INC. PREPARED BY - BY LIBBERG LAND SURVEY DATED 12-8-14 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 PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF 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 HEREON 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 (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL 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 OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH THOMAS ENGINEERING GROUP WITH EVIDENCE OF THE INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LOSSES, COSTS, INCLUDING REASONABLE ATTORNEY'S 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 DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS, AND CONSTRUCTION SAFETY COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THOMAS ENGINEERING'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, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, 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 PERSONNEL HAVE NO AUTHORITY TO EXERCISE 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 THEREON, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY 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 TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

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 THE PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE ENGINEER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES 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 TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

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 SCHEDULED, 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 LAKE PARK FOR THE FOLLOWING: 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 CITY OF LAKE PARK AND DADE COUNTY WHERE APPLICABLE PRIOR TO IMPLEMENTATION.

32. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR LAKEWAYS 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 MADE DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM CITY OF LAKE PARK.

34. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE. ALL RESTORED TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S TRAFFIC ENGINEERING STANDARDS.

SANITARY SEWER NOTES:

A. GENERAL:
1. DISTANCE AND LENGTHS SHOWN ON PLANS REFER TO THE CENTER OF STRUCTURES.

B. MATERIALS:
1. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3024, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS. (24" SHALL BE DR-25)

2. DUCTILE IRON PIPE (DIP) SHALL BE DUCTILE IRON PIPE WITH AN IRON END AND SHALL HAVE A COAL TAR EPOXY COATING, MANUFACTURED IN ACCORDANCE WITH ANSII/AWWA C111/A21.11-90 OR LATEST REVISION. MINIMUM WALL THICKNESS CLASS 52 (4"-12") & CLASS 51 (14"-20") (UNLESS OTHERWISE SPECIFIED).

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

C. INSTALLATION:
1. PIPE AND FITTINGS:

a. SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANSII/AWWA C900-99 OR LATEST REVISION. PIPE ASSOCIATION'S RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE".

b. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSII/AWWA C900-99 OR LATEST REVISION.

c. BEDDING AND INITIAL BACKFILL (12 INCHES) OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF TOWN OF LAKE PARK. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.

3. SERVICE:
a. MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE AS INDICATED IN THE FLORIDA BUILDING CODE.

b. SERVICE LATERALS SHALL TERMINATE AT A DEPTH 30" BELOW FINISHED GRADE OR AS INDICATED ON PLUMBING PLAN.

c. EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.

d. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE PAINTED RED, EXTENDING 18"(MIN) ABOVE GRADE.

e. CONTRACTOR SHALL ROUGH IN RISER TO 1 FOOT ABOVE FINISHED GRADE AND PLUG, AT PROJECT COMPLETION, CUT BACK TO FINISHED GRADE.

f. CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE CITY'S BUILDING AND ZONING DEPARTMENT, PLUMBING SECTION.

D. TESTING:
1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.

2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER INFILTRATION TEST FOR ANY SECTION TESTED.

3. MANHOLE LEAKAGE TEST 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 TWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED AND ALL LINES SHALL BE T.V. INSPECTED.

5. SANITARY SEWER SHALL BE TELEVIEWED 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, AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO SEACOAST UTILITY AUTHORITY.

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 BITUMINOUS COATED EXTERIOR. WATER MAIN & EPOXY LINED & COATED SERVICE LAIN MANUFACTURED IN ACCORDANCE WITH ANSII/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. ALL PVC MAINS SHALL BE SERIES 1120, TYPE 150 (DR 18) PRESSURE PIPE CONFORMING TO ANSII/AWWA C900-99 OR LATEST REVISION, AND SHALL HAVE PUSH-ON JOINTS, AND IRON PIPE O.D. (PVC ON-SITE ONLY)

3. FITTINGS FOR MAINS 4" AND LARGER SHALL BE DUCTILE IRON MECHANICAL JOINT CONFORMING TO ANSII/AWWA C110/A21.10-93 OR LATEST REVISION, COMPLETE WITH GLANDS, GASKETS, BOLTS AND NUTS. ALL FITTINGS SHALL BE CEMENT LINED AND SEAL 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 BRONZE LINED, NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSII/AWWA C509-87 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.

5. TAPPING VALVES SHALL BE MUELLER H667 OR APPROVED EQUAL.

6. GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HAND WHEELS. NO SUBSTITUTIONS ALLOWED.

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

8. VALVE BOXES SHALL BE TYLER/UNION 461-S OR APPROVED EQUAL PER SEACOAST UTILITY AUTHORITY.

9. RETAINER GLANDS SHALL CONFORM TO ANSII/AWWA C111/A21.11-90 OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS AND SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES.

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. FIRE HYDRANTS SHALL HAVE A 5 1/4" MAIN VALVE OPENING. FIRE HYDRANT NOZZLE TO BE 1/2" FINISH GRADE. ALL HYDRANTS TO BE INSTALLED WITH ANCHORING TEE AND CONTROL VALVE. FIRE HYDRANT SHALL COMPLY WITH ANSII/AWWA C502-85 (OR LATEST REVISION). HYDRANTS SHALL BE KENNEDY GUARDIAN K-91-4 OR APPROVED EQUAL. BLUE REFLECTIVE PAVEMENT MARKER REQUIRED IN CENTER OF NEAREST DRIVING LANE FOR FIRE HYDRANTS.

C. SERVICE CONNECTION:
1. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH THREADED ENDS, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.

2. CURB STOPS SHALL BE MUELLER OR APPROVED EQUAL.

3. METER STOPS SHALL BE 90° LOCK WING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM B-62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT 'O' RING SEAL AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.

4. SERVICE PIPING SHALL BE TYPE 'K' DRAWN COPPER.

D. INSTALLATION:
1. GENERAL:
CONNECTION OF ALL NEW SYSTEMS TO EXISTING MAINS SHALL BE DONE BY USING ONE OF THE FOLLOWING METHODS:

a. METHOD A PER PALM BEACH COUNTY PUBLIC HEALTH UNIT STANDARDS, WHICH INVOLVES A REDUCED SIZE TEMPORARY CONNECTION BETWEEN THE EXISTING MAIN AND THE NEW ONE.

b. METHOD B PER PALM BEACH COUNTY PUBLIC HEALTH UNIT STANDARDS, WHICH INVOLVES A DIRECT CONNECTION BETWEEN THE NEW AND EXISTING MAINS USING TWO GATE VALVES SEPARATED BY A SLEEVE WITH A VENT PIPE.

c. METHOD C APPROVED BY PALM BEACH COUNTY PUBLIC HEALTH UNIT, WHICH INVOLVES A TAP WITH ONE GATE VALVE REQUIRING DISINFECTION OF THE NEW SYSTEM PRIOR TO CONDUCTING THE PRESSURE TEST.

2. BEDDING:
BEDDING AND INITIAL BACKFILL (12 INCHES ABOVE PIPE) FOR ALL PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF SEACOAST UTILITY AUTHORITY. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.

3. PVC PIPE:
a. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION'S GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEMS.

b. PVC PIPE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER

c. DETECTOR TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL PVC MAINS APPROXIMATELY 18" ABOVE THE PIPE, COLOR SIDE UP.

d. DUCTILE PIPE:
a. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSII/AWWA C900-99 OR LATEST REVISION.

b. D.I.P. SHALL BE INSTALLED WITH A MINIMUM OF 30" COVER.

c. "NON-DETECTO" TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL D.I.P. MAINS APPROXIMATELY 18" ABOVE THE MAIN COLOR SIDE UP

5. VALVES:
a. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD 'WATER' OR 'SEWER' CAST IN THE COVER. A BRASS DISK INDICATING, SIZE, TYPE, KIND & OPERATOR INSTRUCTIONS SHALL BE INSTALLED ADJACENT TO VALVE BOX.

b. MAIN VALVES SHALL BE LOCATED ON AN EXTENSION OF THE RIGHT-OF-WAY LINE UNLESS DIMENSIONED OTHERWISE.

c. MAIN VALVES SHALL BE INSTALLED AWAY FROM PARKING AREAS. IF THIS IS UNAVOIDABLE, PROPER MEASURES SHALL BE TAKEN TO AVOID THE PARKING AREA. REFLECTIVE PAVEMENT MARKER VALVES SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. VALVES LOCATED IN NON-PAVED AREAS OR IN PARKING STALLS SHALL REQUIRE A REFLECTIVE PAVEMENT MARKER ON THE CENTER OF THE NEAREST LANE OF ROAD PAVEMENT. WHITE REFLECTORS FOR THE WATER MAIN VALVES. GREEN REFLECTORS FOR FORCE MAIN VALVES. THE MINIMUM WALL AND SLAB THICKNESS SHALL BE 8 INCHES AND THE MINIMUM REINFORCING SHALL BE NO. 4 BARS AT 12 INCHES EACH WAY UNLESS OTHERWISE INDICATED. CONCRETE SHALL BE MINIMUM OF 150-7500 PSI AT 28 DAYS.

6. SERVICE:
a. COVER OVER SERVICE LINES SHALL BE 18" MINIMUM, 36" MAXIMUM BELOW FINISHED GRADE AND 36" UNDER PAVEMENT.

b. SERVICES UP TO 2" SHALL BE TYPE 'K' COPPER PER PALM BEACH COUNTY.

c. METER STOPS SHALL HAVE 8" TO 10" COVER AS REQUIRED FOR PROPER METER/BOX INSTALLATION.

d. WATER SERVICES UNDER PAVEMENT SHALL BE ENCASED IN A SCHEDULE 80 PVC SLEEVE FOR THE FULL LENGTH OF THE PAVEMENT AND FOR AN ADDITIONAL 12 INCHES. SLEEVE DIAMETER SHALL BE TWICE THE DIAMETER OF THE SERVICE PIPE.

e. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE, PAINTED BLUE EXTENDING 18" (MINIMUM) ABOVE GRADE UNLESS INDICATED OTHERWISE.

E. TESTING
1. BEFORE ANY PHYSICAL CONNECTIONS TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED HYDROSTATIC TESTING OF FORCE MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSII/AWWA C600-05 OR LATEST REVISION. THE PRESSURE TEST SHALL NOT VARY MORE THAN ±5 P.S.I. DURING THE TEST.

2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF SEACOAST UTILITY AUTHORITY AND THE ENGINEER OF RECORD.

3. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSII/AWWA C651-05, 150 PSI MINIMUM STARTING TEST PRESSURE, WITH BACTERIOLOGICAL SAMPLES APPROVED BY THE PALM BEACH COUNTY PUBLIC HEALTH DEPARTMENT.

4. SAMPLING POINTS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLANS. IF NOT SPECIFIED, SAMPLING POINTS SHALL BE PROVIDED AT THE FOLLOWING: (1) MAXIMUM FLOW LINES GREATER THAN 1500' IN LENGTH PROVIDE A MINIMUM OF TWO SAMPLING POINTS FOR ALL OTHER TEST SEGMENTS. SAMPLE POINTS MUST BE APPROVED BY PALM BEACH COUNTY PUBLIC HEALTH DEPARTMENT.

5. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:
$$L = \frac{S \cdot D \cdot 0.5}{133200}$$

IN WHICH:
L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
S EQUALS LENGTH OF PIPE (LINEAR FEET).
D EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND
P EQUALS THE MINIMUM TEST PRESSURE (POUNDS PER SQUARE INCH).

SEPARATION OF WATER AND SEWER MAINS

A. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS SHALL CROSS OVER WATER MAINS. CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR FORCE MAIN AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, STORM SEWERS, OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.

(DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

B. A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE. THE SEWER SHALL ALWAYS BE ABOVE THE SEWER JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

C. ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE ENGINEER.

STORM DRAINAGE:

A. GENERAL:
1. CATCH BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

2. DISTANCES AND LENGTHS SHOWN ON PLANS REFERENCE THE CENTER OF STRUCTURES.

B. MATERIALS:
1. ALL HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M - 294 LATEST REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING.

2. ALL YARD DRAIN BASINS ARE TO BE HIGH DENSITY POLYETHYLENE PRODUCT AND SHALL MEET ASTM LATEST MINIMUM STANDARDS.

3. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-478 AND 647 UNLESS OTHERWISE NOTED IN THE PLANS. BLOCK CATCH BASINS WILL BE ALLOWED ONLY WITH APPROVAL OF THE ENGINEER. THE MINIMUM WALL AND SLAB THICKNESS SHALL BE 8 INCHES AND THE MINIMUM REINFORCING SHALL BE NO. 4 BARS AT 12 INCHES EACH WAY UNLESS OTHERWISE INDICATED. CONCRETE SHALL BE MINIMUM OF 150-7500 PSI AT 28 DAYS.

C. INSTALLATION
1. PIPE SHALL BE PLACED ON A MINIMUM OF 8" STABLE GRANULAR MATERIAL FREE OF ORGANIC MATTER AND OTHER FOREIGN FORTIERS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.

2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL. WELL TAMPED IN LAYERS NOT TO EXCEED 6 INCHES TO A HEIGHT OF 12 INCHES ABOVE PIPE AS SHOWN ON THE PLANS.

3. PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL NOTIFY TOWN OF LAKE PARK ENGINEERING DEPARTMENT AND THE ENGINEER OF RECORD AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

A. GENERAL:
1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.

2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

3. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE CUT TO ENSURE A PROPER JOINT.

B. MATERIALS:
1. LIMEROCK BASE: (ASPHALT,VEHICULAR PAVERS AREAS) LIME ROCK BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM 6" THICKNESS AND COMPACTED TO 98% MAXIMUM DRY DENSITY PER AASHTO T-190 OR OTHER SUBSTITUTES SHALL BE PER FOOT SPECIFICATIONS AND PROVIDE EQUIVALENT STRUCTURAL NUMBER AS ABOVE (MIN LBR 100).

2. WEARING SURFACE (ASPHALT SURFACE ONLY)
INSTALLATION OF THE 1" ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR TYPE S-III ASPHALTIC CONCRETE, AND SHALL BE CONSTRUCTED WITH 2 LIFTS OF 1" S-III ASPHALTIC CONCRETE WITH TACK COAT BETWEEN LIFTS. (VIRGIN ASPHALT TO BE USED FOR FINAL LIFT).

REVISIONS

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT

PROJECT No.:	F140008
DRAWN BY:	AAM
CHECKED BY:	BU
DATE:	02/14/14
CAD I.D.:	F140008 - SITE PLAN

FOR
ALDI #13
CONGRESS BUSINESS
PARK P.U.D.



THOMAS
ENGINEERING GROUP

RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33304
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

BRANDON ULMER
PROFESSIONAL ENGINEER
10142014
FLORIDA LICENSE NO. 68336
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
SITE PLAN
SHEET NUMBER:
C-3



LOCATION MAP
1"=100'

SITE DATA

OWNER:	CONGRESS AVENUE PROPERTIES LTD
TAX MAP ID:	3643421900005040
CURRENT USE:	VACANT COMMERCIAL
PROPOSED USE:	COMMERCIAL
ZONING DESIGNATION:	PUD
LAND USE DESIGNATION:	COMMERCIAL / LIGHT INDUSTRIAL
OVERALL LOT AREA:	103,856 SF (2.38 AC)
ADJACENT ROADWAY:	16,411 SF (0.377 AC)
PROJECT LOT AREA:	87,445 SF (2.007 AC)

IMPERVIOUS:	PROPOSED
BUILDING AREA:	17,098 SF
PAVEMENT AREA:	45,403 SF
CONCRETE CURBS & SIDEWALK:	4,733 SF
TOTAL IMPERVIOUS AREA:	67,234 SF (77%)

PERVIOUS:	
TOTAL PROPOSED PERVIOUS:	20,211 SF (23%)
TOTAL AREA:	87,445 SF (100%)

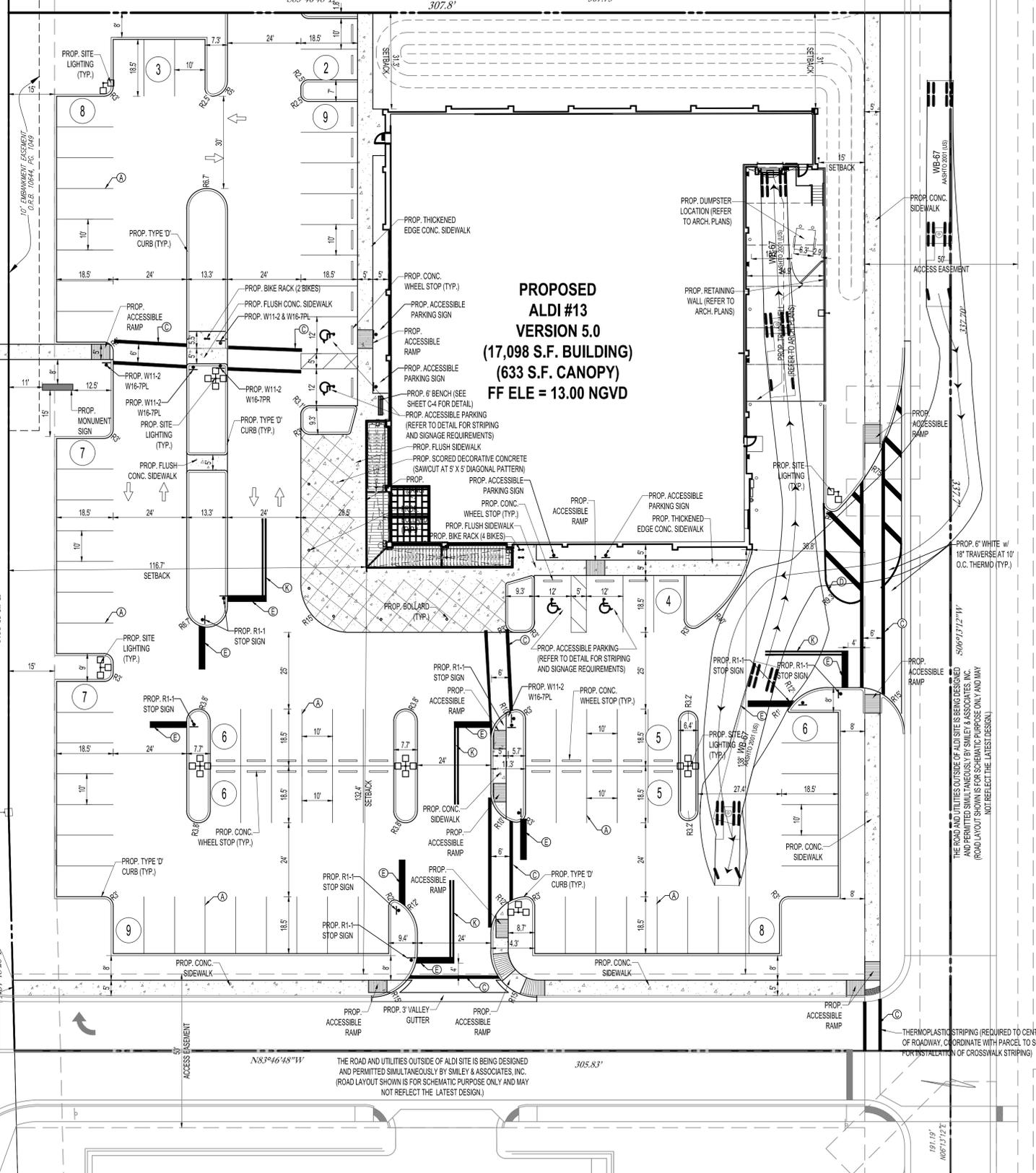
BUILDING HEIGHT:	(30' MAX)
BUILDING:	23'-1"
BUILDING SETBACKS:	REQUIRED PROPOSED
NORTH (WATERTOWER RD.):	15' N/A
SOUTH (PARK AVE. EXT.):	15' N/A
WEST (CONGRESS AVE.):	25' 115.5'

LANDSCAPE BUFFERS:	
NORTH:	8' 8'
SOUTH:	8' 8'
EAST:	15' 15'
WEST (CONGRESS AVE.):	15' 15'

STRUCTURE:	RATE	REQUIRED SPACES
RETAIL:	1 SPACE PER 200 SF	85
TOTAL PARKING REQUIRED:		85 (4 HC)
TOTAL PARKING PROVIDED:		85 (4 HC)

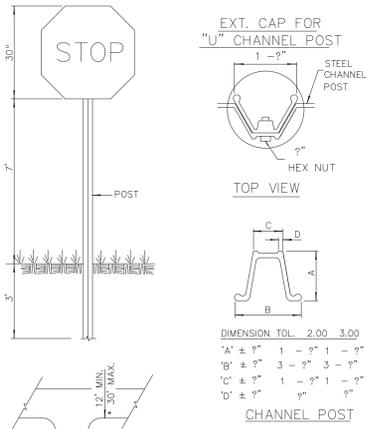
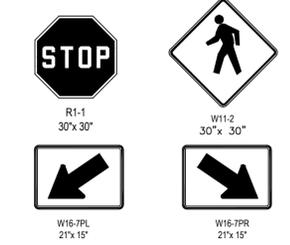
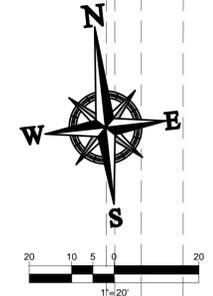
LOADING ZONE:	REQUIRED: 1	PROVIDED: 1
---------------	-------------	-------------

- GENERAL NOTES
- PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND PALM BEACH COUNTY TYPICAL N.O.T.P-10-101
 - ALL REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH PALM BEACH COUNTY TYPICAL T-P-10-001
 - THERMOPLASTIC SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE SECTION 711- MINIMUM THICKNESS 90MILS (AKYD ONLY) EXTRUDED ONLY.
 - THESE INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) HOWEVER, WHERE CONFLICTS EXIST TYPICAL T-P-10-001 SHALL TAKE PRECEDENCE OVER D.O.T. STANDARD SPECIFICATIONS.
 - THERMOPLASTIC SHALL NOT BE INSTALLED ON ROADWAY UNTIL FIVE CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED.
 - ALL STOP BARS SHALL BE PLACED 4' BEHIND CROSSWALKS
 - ALL STOP BARS AND CROSSWALK STRIPING SHALL BE THERMOPLASTIC



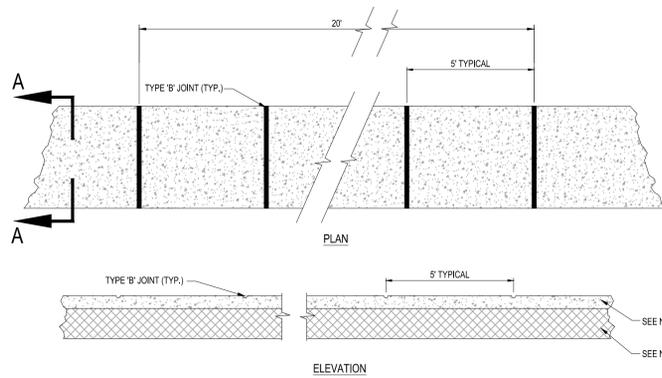
**PROPOSED
ALDI #13
VERSION 5.0
(17,098 S.F. BUILDING)
(633 S.F. CANOPY)
FF ELE = 13.00 NGVD**

CONGRESS AVENUE
(SEE 10/23, PAGE 6)



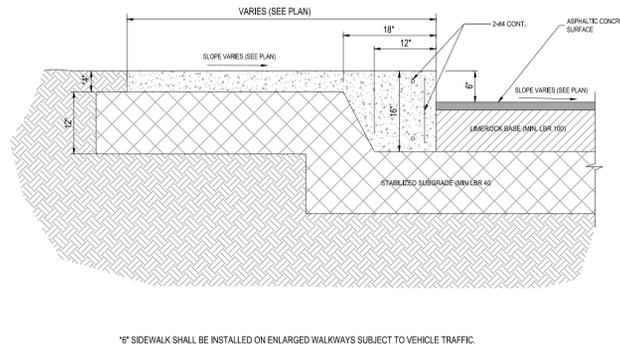
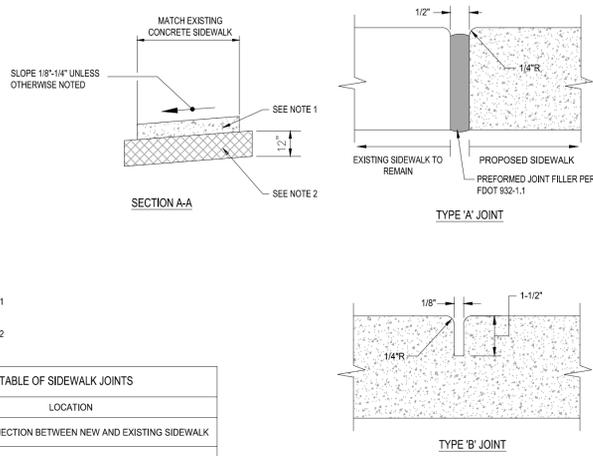
STRIPING KEY

- A = 4" SOLID WHITE
- B = 8" SOLID WHITE
- C = 12" SOLID WHITE
- D = 18" SOLID WHITE
- E = 24" SOLID WHITE
- F = 6" SKIP WHITE TYP (10'-30')
- G = 6" SKIP WHITE TYP (6'-10')
- H = 6" SKIP WHITE TYP (2'-4')
- I = 6" SOLID YELLOW
- J = 18" SOLID YELLOW
- K = 6" DOUBLE YELLOW
- L = 6" SKIP YELLOW TYP (10'-30')
- M = 6" SKIP YELLOW TYP (6'-10')
- N = 6" SKIP YELLOW TYP (2'-4')
- P = RPM BI-DIRECTIONAL AMBER/AMBER
- R = FDP WHITE
- S = FDP YELLOW
- T = RPM BI-DIRECTIONAL WHITE/RED
- U = RPM BI-DIRECTIONAL RED/YELLOW
- V = RPM BI-DIRECTIONAL BLUE/BLUE



- NOTES:
- SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
 - SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-190. (12" THICKNESS)
 - CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
 - SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
 - PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	AT CONNECTION BETWEEN NEW AND EXISTING SIDEWALK
'B'	5 FEET CENTER TO CENTER ON SIDEWALKS.



- NOTES:
- SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
 - 12" SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. (T-190)
 - T-190. CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
 - SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
 - PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.
 - PROVIDE FIBEROUS JOINTS 20' O.C.

1 SIDEWALK DETAILS

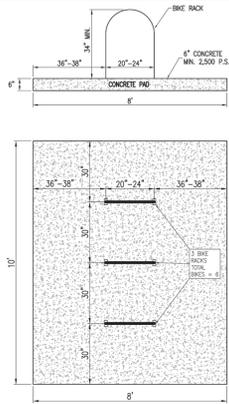
SCALE: NONE

2 THICKENED EDGE SIDEWALK DETAIL

SCALE: NONE

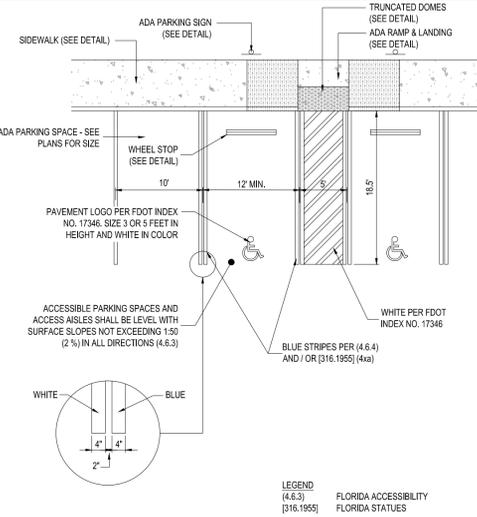
3 TYPICAL CONCRETE SIDEWALK SECTION

SCALE: NONE

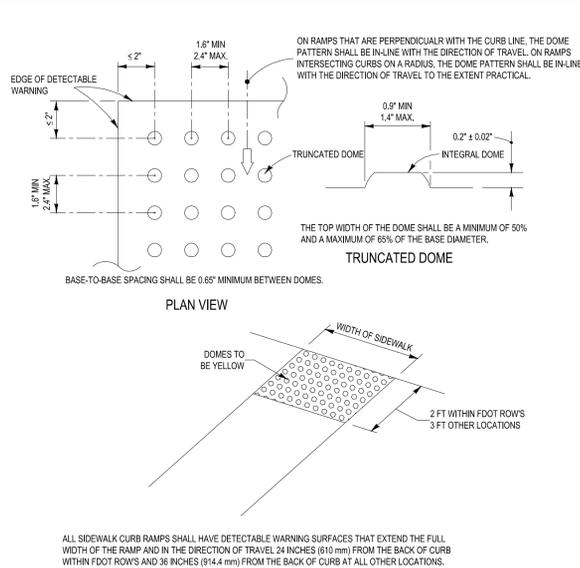


LANDSCAPE FORMS - CHASE PARK
 COLOR: METALIC BRONZE;
 BENCH WITH CENTER ARMS;
 PROVIDE SURFACE MOUNTING
 OPTION, USE 1/2" X 2" SS TAPCONS

- NOTES:
- ACCEPTABLE MANUFACTURERS ARE EITHER 1) AMERICAN BICYCLE SECURITY COMPANY OR 2) DERO BIKE RACKS. ALL MATERIALS, FINISHES, INSTALLATION AND ANCHORING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
 - BICYCLE RACK MANUFACTURER MAY BE SUBSTITUTED WITH APPROVAL OF ENGINEER OF RECORD BUT HOOP OR INVERTED "V" STYLE MUST BE USED.

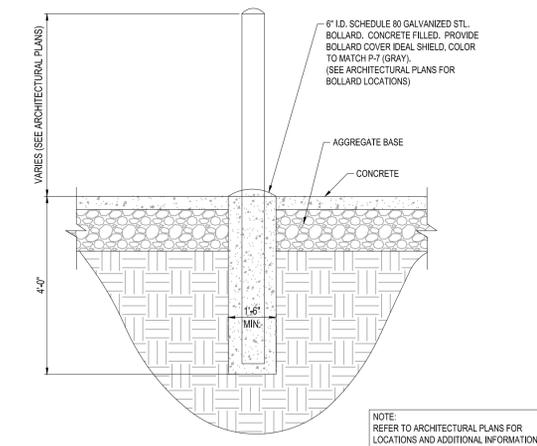


LEGEND
 (4.4.3) FLORIDA ACCESSIBILITY
 (316.1955) FLORIDA STATUTES



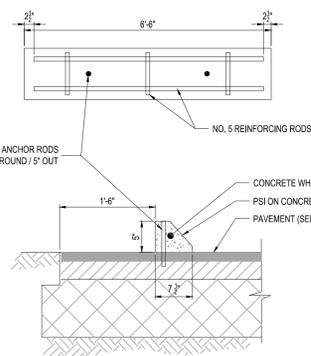
6 ADA RAMP DETECTABLE WARNING DETAIL

SCALE: NONE

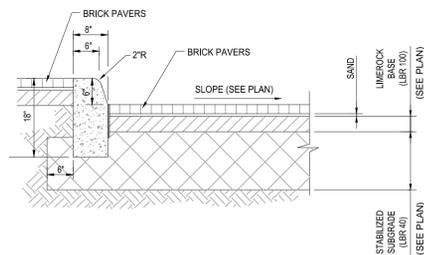


7 TYPICAL EXTERIOR BOLLARD DETAIL

SCALE: NONE

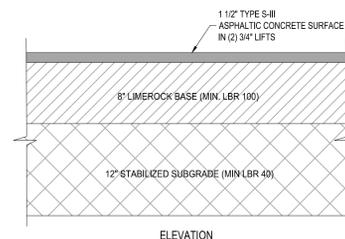


- NOTES:
- WHEEL STOP FORM SIZES MAY VARY DEPENDING ON MANUFACTURER.
 - WHEEL STOPS SHALL BE PAINTED BLUE AT HDOP SPACES, UNPAINTED AT REGULAR SPACES.
 - WHEEL STOP TO BE CENTERED IN PARKING SPACE.



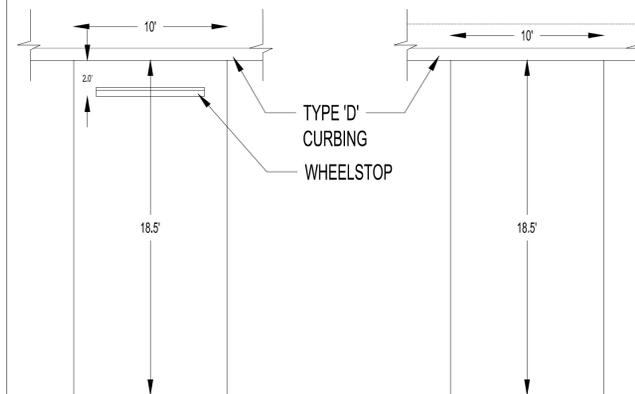
9 CONCRETE CURB (TYPE 'D') DETAIL

SCALE: NONE



10 ASPHALTIC CONCRETE PAVEMENT DETAIL

SCALE: NONE



11 PARKING STALL DETAIL

SCALE: NONE

THOMAS
 ENGINEERING GROUP
 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
 OFFICES:
 4950 W. KENNEDY BLVD.
 SUITE 600
 FORT LAUDERDALE, FLORIDA 33309
 1000 CORPORATE DR.
 SUITE 200
 FORT LAUDERDALE, FLORIDA 33304

REVISIONS			
REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW
 ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

ENTITLEMENT
 PROJECT No.: F140008
 DRAWN BY: AAM
 CHECKED BY: BU
 DATE: 02/14/14
 CAD I.D.: F140008 - SITE DETAILS

PROJECT:
ALDI #13 CONGRESS BUSINESS PARK P.U.D.

FOR

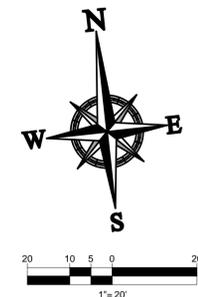
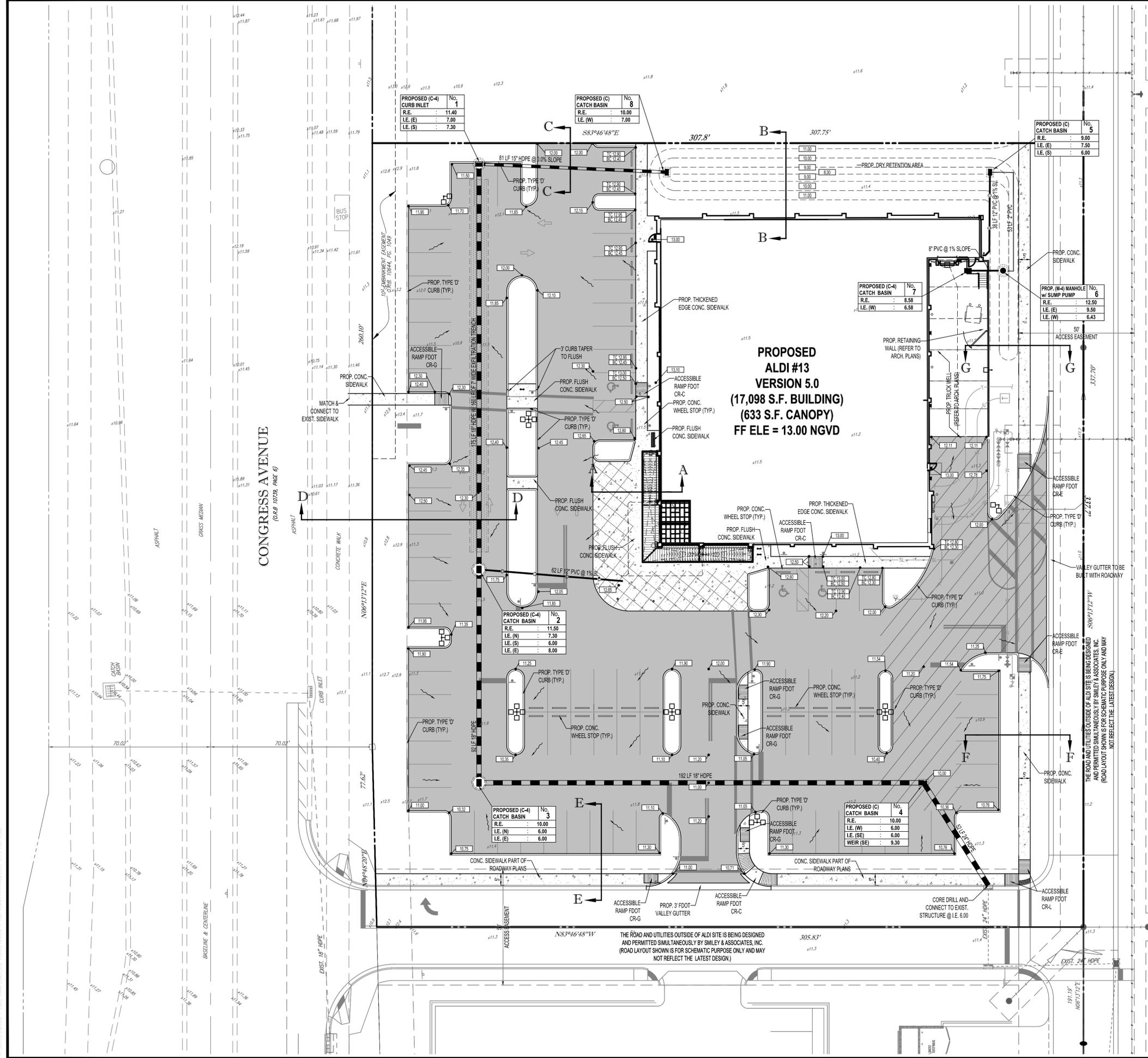
 CITY OF LAKE PARK
 FLORIDA

THOMAS
 ENGINEERING GROUP
 RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33334
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.ThomasEngineeringGroup.com

BRANDON ULMER
 PROFESSIONAL ENGINEER
 10142014
 FLORIDA LICENSE No. 68336
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
SITE DETAILS
 SHEET NUMBER:
C-4

Printed on Tuesday, October 14, 2014, 8:32 AM by Brandon Ulmer



CONSTRUCTION NOTES:

- CONTRACTOR TO FIELD VERIFY THE BOTTOM ELEVATION OF EX. STORM STRUCTURE IS AT A MINIMUM ELEVATION OF 2.0 NGVD. TO ACCOMMODATE REQUIRED BAFFLE, IF BOTTOM ELEVATION IS ABOVE ELEVATION 2.0 NGVD THE STRUCTURE SHALL BE REPLACED WITH C-S CIRCULAR CURB INLET, WITH BOTTOM OF STRUCTURE AT MINIMUM OF 2.0 NGVD.
- CONTRACTOR TO SAW-CUT AT ALL LOCATIONS OF REMOVAL OF EX. CONC. SIDEWALK, CONC. CURB AND ASPHALT UNLESS OTHERWISE NOTED. ALL BASE AND SUBBASE MATERIAL SHALL BE REMOVED WITHIN THE PROPOSED LANDSCAPED AREA.
- CONTRACTOR TO MATCH EX. GRADES AND TO CONSTRUCT A SMOOTH TRANSITION FROM EX. FACILITIES TO PROPOSED.
- CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE AND DISPOSE PER LOCAL ORDINANCES.
- CONTRACTOR TO ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH CITY DESIGN STANDARDS.
- CONTRACTOR TO SOD ALL DISTURBED AREAS. SODDING INCLUDES MAINTAINING SLOPE AND SOD UNTIL COMPLETION AND ACCEPTANCE OF THE TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST.
- ALL EX. TRAFFIC SIGNS DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THESE STANDARDS OR THE PROGRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED AREA.
- THE CONTRACTOR SHALL PROTECT ALL EX. STRUCTURES, STORM DRAINS, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS/HER CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY SUNSHINE STATE ONE CALL (1-800-432-4770) OR (811) PRIOR TO CONSTRUCTION.
- PROJECT BASED ON DESIGN SURVEY PREPARED BY OTHERS.
- THE CONTRACTOR SHALL NOT ENCROACH ONTO PRIVATE PROPERTY WITHOUT EASEMENTS NECESSARY FOR COMPLETION OF THE WORK.
- THE EX. UNDERGROUND UTILITIES SHOWN ARE PER ABOVE GROUND SURVEY DATA AND UTILITY AS-BUILT DATA. THIS INFORMATION DOES NOT WARRANT EXACT SIZE AND LOCATION OF THE UTILITIES. ALSO, THERE MAY BE ADDITIONAL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION THAT MAY BE AFFECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING EX. UTILITIES DURING THE COURSE OF CONSTRUCTION.
- PLEASE SEE MEP PLANS FOR CONTINUATION OF ROOF LEADERS.
- 2.0% MAXIMUM SLOPE ON HANDICAP SPACES AND ADA ACCESS WAYS.
- ALL SIDEWALKS SHOULD HAVE A MAXIMUM CROSS SLOPE OF 2.0%.

PAVING, GRADING & DRAINAGE LEGEND

EX. NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
SL	SANITARY SEWER LATERAL	SL
W	UNDERGROUND WATER LINE	W
E	UNDERGROUND ELECTRIC LINE	E
G	UNDERGROUND GAS LINE	G
OH	OVERHEAD WIRE	OH
T	UNDERGROUND TELEPHONE LINE	T
---	STORM SEWER	---
SAW	SANITARY SEWER MAIN	S
+	HYDRANT	+
S	SANITARY MANHOLE	S
CB	CATCH BASIN	CB
WV	WATER VALVE	WV
Z	BACKFLOW PREVENTER	Z
WM	WATER METER	WM
OC	CLEAN OUT	OC
XS	GRADE SPOT SHOT	XS

HATCH LEGEND

	PROPOSED REGULAR DUTY ASPHALT PAVEMENT		PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE	ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)	

THOMAS ENGINEERING GROUP
 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
 OFFICES:
 4950 W. KENNEDY BLVD., SUITE 600
 FORT LAUDERDALE, FLORIDA 33309
 1000 CORPORATE DR., SUITE 100
 FORT LAUDERDALE, FLORIDA 33304

REVISIONS:

REV.	DATE	COMMENT	BY:
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
 DRAWN BY: AAM
 CHECKED BY: BU
 DATE: 02/14/14
 CAD I.D.: F140008 - PGD PLAN

ALDI #13 CONGRESS BUSINESS PARK P.U.D.

FOR

CITY OF LAKE PARK FLORIDA

THOMAS ENGINEERING GROUP

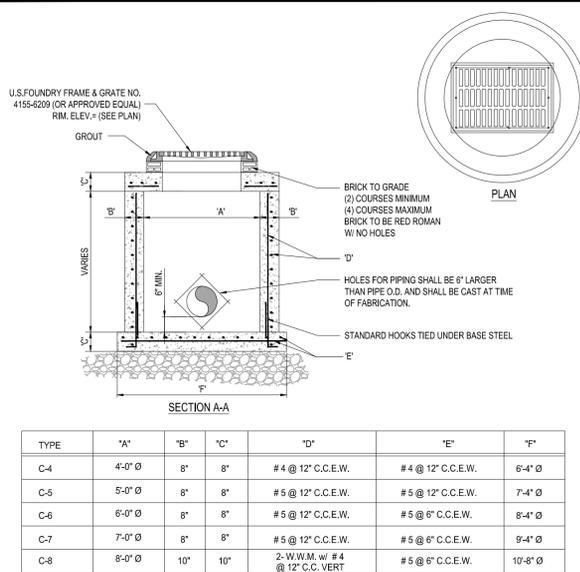
RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33304
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.ThomasEngineeringGroup.com

BRANDON ULMER

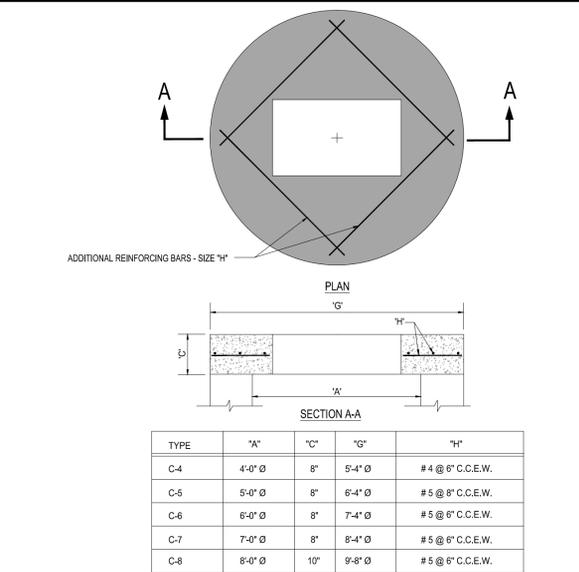
PROFESSIONAL ENGINEER
 10142014
 FLORIDA LICENSE NO. 68336
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

PAVING, GRADING, & DRAINAGE PLAN

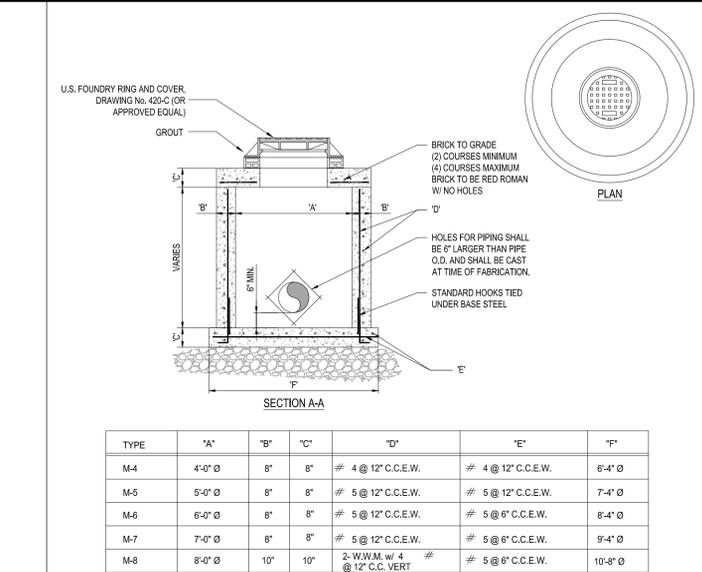
SHEET NUMBER:
C-5



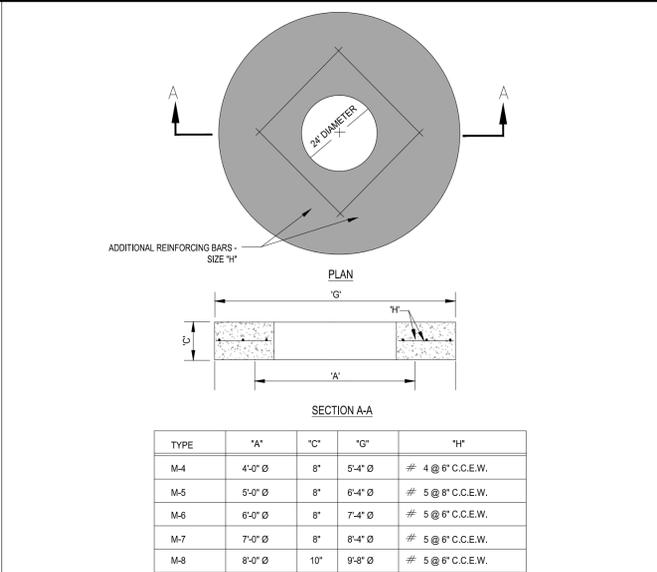
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2-W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø



TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 6" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.



TYPE	"A"	"B"	"C"	"D"	"E"	"F"
M-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
M-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
M-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
M-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
M-8	8'-0" Ø	10"	10"	2-W.W.M. w/ 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø



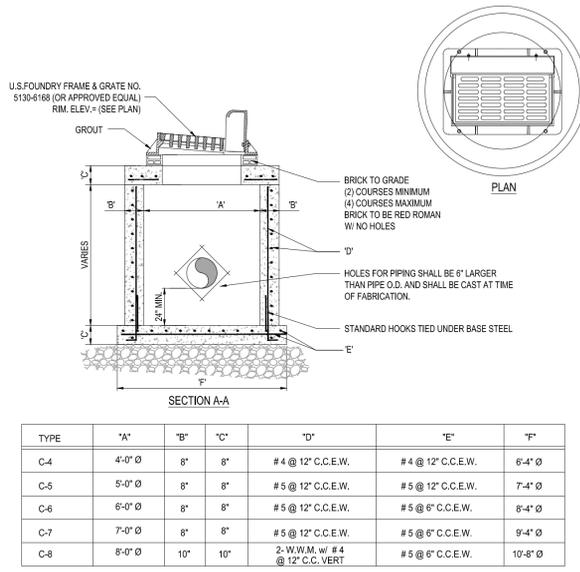
TYPE	"A"	"C"	"G"	"H"
M-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
M-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 6" C.C.E.W.
M-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
M-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
M-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

1 PRECAST CIRCULAR CATCH BASIN
SCALE: NONE

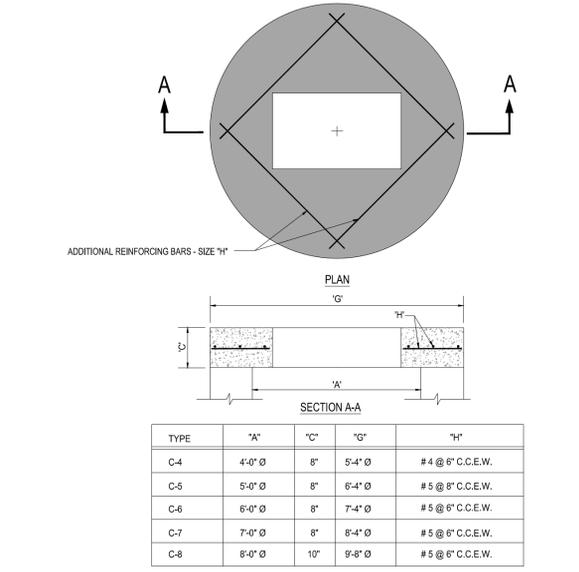
2 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

3 PRECAST CIRCULAR DRAINAGE MANHOLE
SCALE: NONE

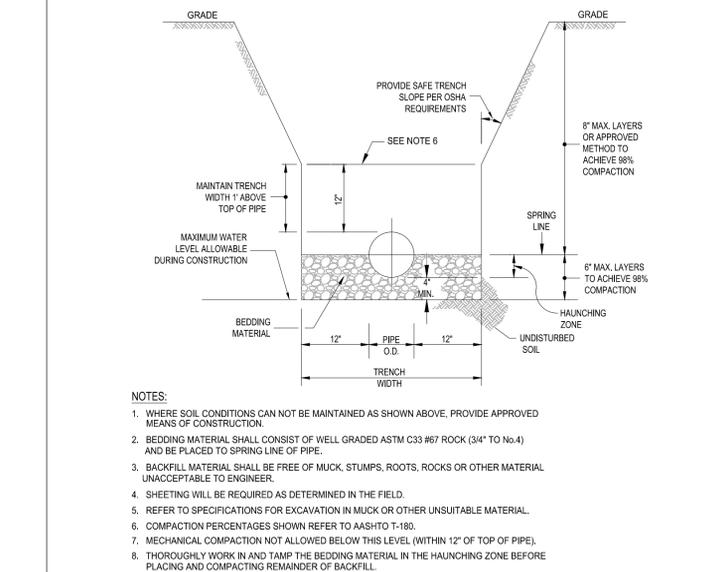
4 PRECAST CONCRETE-TOP SLAB FOR DRAINAGE MANHOLES
SCALE: NONE



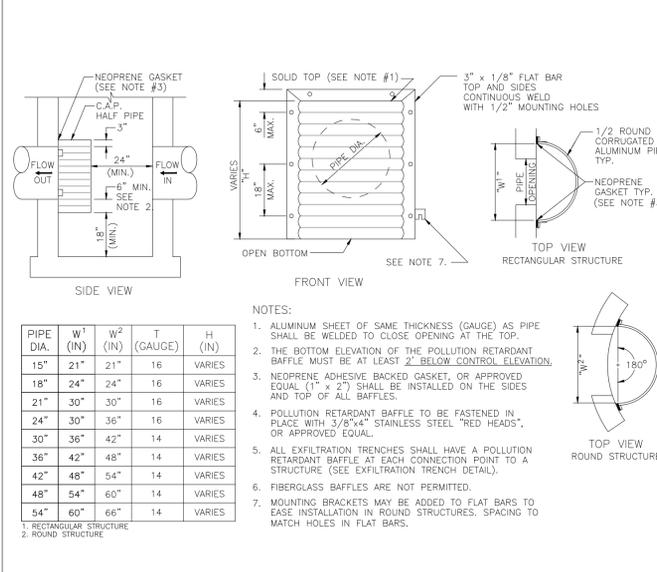
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2-W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø



TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 6" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.



- NOTES:**
- WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
 - BEDDING MATERIAL SHALL CONSIST OF WELL GRADED ASTM C33 #67 ROCK (3/4" TO NO.4) AND BE PLACED TO SPRING LINE OF PIPE.
 - BACKFILL MATERIAL SHALL BE FREE OF MUCK, STUMPS, ROOTS, ROCKS OR OTHER MATERIAL UNACCEPTABLE TO ENGINEER.
 - SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
 - REFER TO SPECIFICATIONS FOR EXCAVATION IN MUCK OR OTHER UNSUITABLE MATERIAL.
 - COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-198.
 - MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL (WITHIN 12" OF TOP OF PIPE).
 - THOROUGHLY WORK IN AND TAMP THE BEDDING MATERIAL IN THE HAUNCHING ZONE BEFORE PLACING AND COMPACTING REMAINDER OF BACKFILL.



PIPE DIA. (IN)	W ¹ (IN)	W ² (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

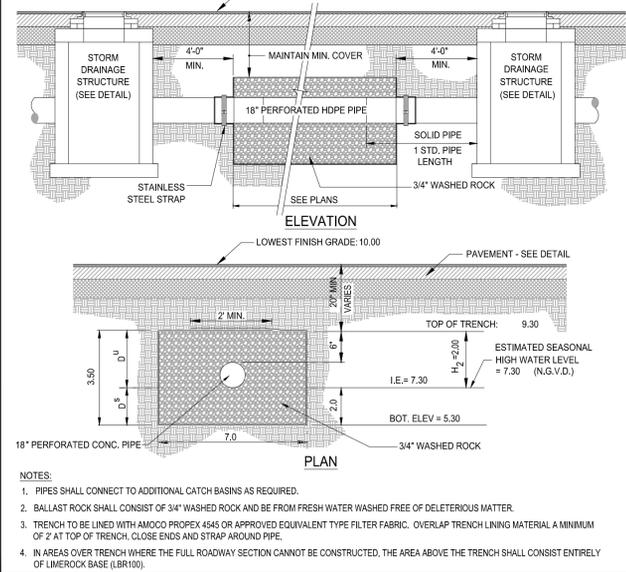
1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

5 PRECAST CIRCULAR CURB INLET
SCALE: NONE

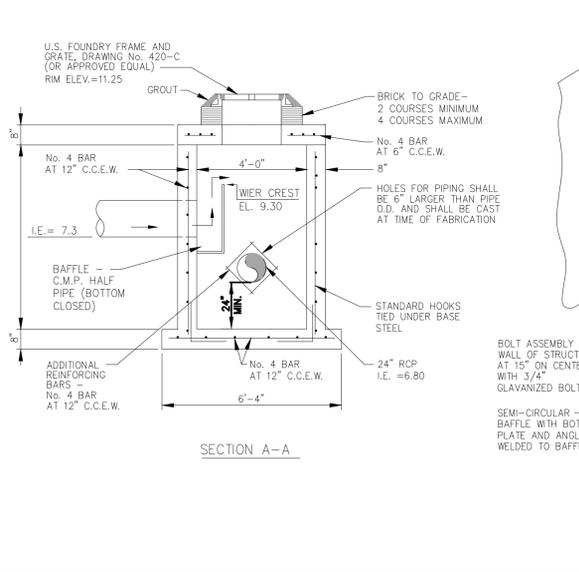
6 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

7 TRENCH DETAIL
SCALE: NONE

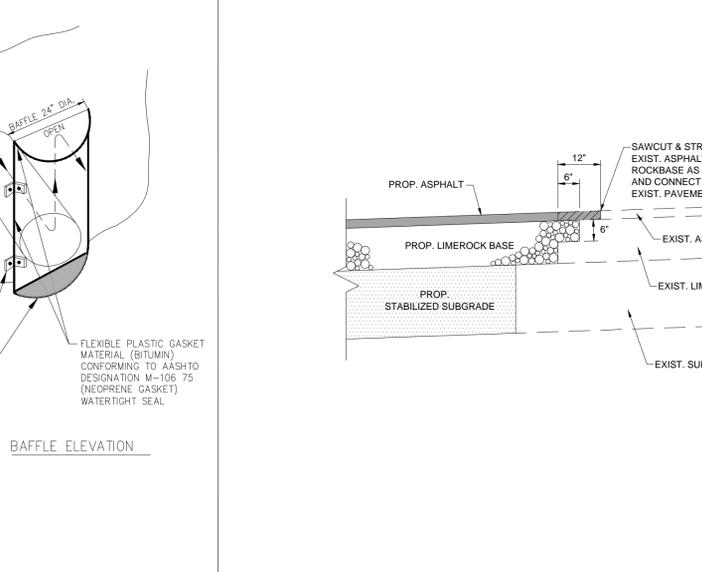
8 POLLUTION RETARDENT BAFFLE DETAIL
SCALE: NONE



- NOTES:**
- PIPES SHALL CONNECT TO ADDITIONAL CATCH BASINS AS REQUIRED.
 - BALLAST ROCK SHALL CONSIST OF 3/4" WASHED ROCK AND BE FROM FRESH WATER WASHED FREE OF DELETERIOUS MATTER.
 - TRENCH TO BE LINED WITH AMOCO PROPEX 4545 OR APPROVED EQUIVALENT TYPE FILTER FABRIC. OVERLAP TRENCH LINING MATERIAL A MINIMUM OF 2' AT TOP OF TRENCH, CLOSE ENDS AND STRAP AROUND PIPE.
 - IN AREAS OVER TRENCH WHERE THE FULL ROADWAY SECTION CANNOT BE CONSTRUCTED, THE AREA ABOVE THE TRENCH SHALL CONSIST ENTIRELY OF LIMEROCK BASE (LBR100).



10 INVERTED DEBRIS BAFFLE (CONTROL STRUCTURE)
SCALE: NONE



11 SAWCUT/MATCH ASPHALT PAVEMENT DETAIL
SCALE: NONE

THOMAS ENGINEERING GROUP
ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
OFFICES:
4950 W. KENNEDY BLVD.
SUITE 600
FORT LAUDERDALE, FLORIDA 33309
1000 CORPORATE DR.
SUITE 100
FORT LAUDERDALE, FLORIDA 33304
FLORIDA LICENSE NO. 68336
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

REVISIONS:

REV.	DATE	COMMENT	BY:
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT
PROJECT No.: F140008
DRAWN BY: AAM
CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - PGD DETAILS

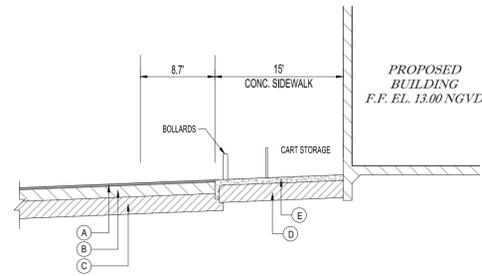
ALDI #13 CONGRESS BUSINESS PARK P.U.D.

FOR
ALDI
CITY OF LAKE PARK
FLORIDA

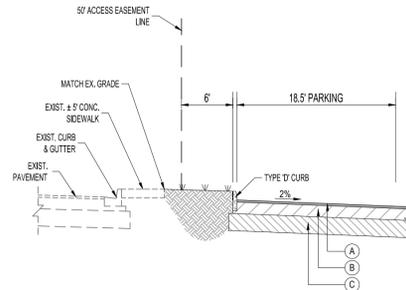
THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

BRANDON ULMER
PROFESSIONAL ENGINEER
10142014
FLORIDA LICENSE NO. 68336
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

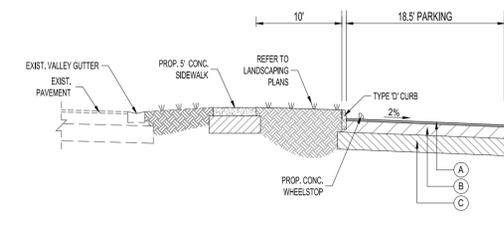
SHEET TITLE:
DRAINAGE DETAILS
SHEET NUMBER:
C-6



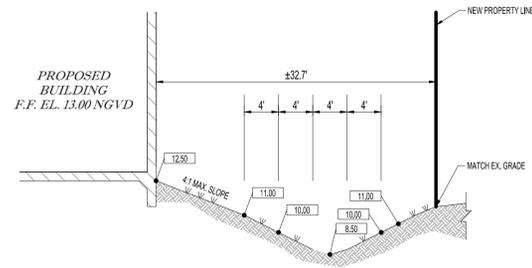
SECTION A-A
NOT TO SCALE



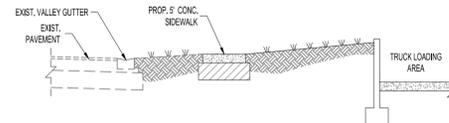
SECTION E-E
NOT TO SCALE



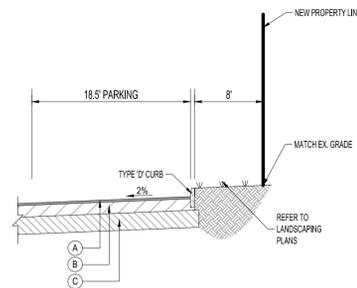
SECTION F-F
NOT TO SCALE



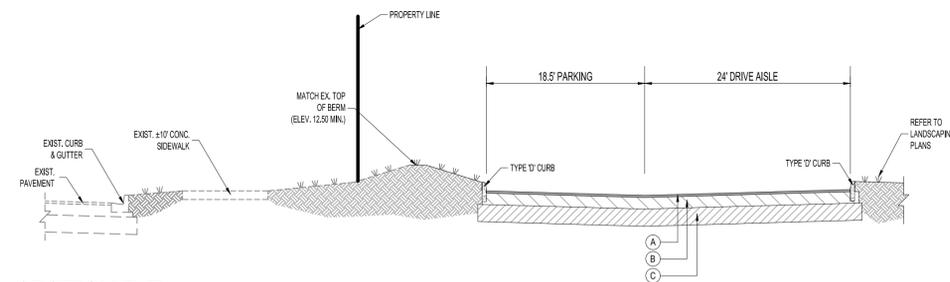
SECTION B-B
NOT TO SCALE



SECTION G-G
NOT TO SCALE



SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE

PAVEMENT LEGEND

- A** WEARING SURFACE: (ASPHALT AREAS ONLY)
2-INCHES OF SP-9.5 FINE MIX ASPHALTIC CONCRETE (2-1" LIFTS). BITUMINOUS ASPHALT COARSE MAY BE INSTALLED IN TWO SEPARATE 1" LIFTS TO ALLOW MOBILIZATION OF EQUIPMENT, THE SECOND LIFT OF ASPHALT SHALL NOT BE PLACED UNTIL ALL OTHER WORK ON THE SITE HAS BEEN COMPLETED. UPON COMPLETION OF SECOND LIFT OF ASPHALT, ANY SCRATCHES GOUGES, OR LOSS OF AGGREGATE WILL NOT BE ACCEPTED. CONTRACTOR TO REMEDY ALL HOLES, BLEMISHES, ETC. PRIOR TO THE UNIFORM INSTALLATION OF SECOND LIFT. AFTER SECOND LIFT OF ASPHALT IS INSTALLED, TRAFFIC ROLLING IS REQUIRED.
- B** LIME ROCK BASE: (ASPHALT, VEHICULAR PAVERS AREAS)
LIME ROCK BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM 8" THICKNESS AND COMPACTED TO 98% MAXIMUM DRY DENSITY PER AASHTO T-180 (LBR 100). OTHER SUBSTITUTES SHALL BE PER FDOT SPECIFICATIONS AND PROVIDE EQUIVALENT STRUCTURAL NUMBER AS ABOVE (MIN LBR 100).
- C** SUB-BASE: 12" STABILIZED SUB-BASE COMPACTED TO 98% OF MAX. DRY DENSITY PER AASHTO T-180 (MIN LBR 40).
- D** COMPACTED SUBGRADE: (WALKWAYS AND CONCRETE PAVEMENT)
COMPACTED TO 98% MAXIMUM DRY DENSITY PER AASHTO T-180.
- E** CONCRETE SIDEWALK:
4" THICK 3000 P.S.I. CONCRETE @ 28 DAYS EXCEPT IN DRIVEWAYS WHERE THICKNESS SHALL BE 6" AND 4,000 P.S.I.
- F** CONCRETE SIDEWALK:
6" THICK 3000 P.S.I. CONCRETE @ 28 DAYS EXCEPT IN DRIVEWAYS WHERE THICKNESS SHALL BE 6" AND 4,000 P.S.I.

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
4950 W. KENNEDY BLVD.
SUITE 600
FORT LAUDERDALE, FLORIDA 33309

1000 CORPORATE DR.
SUITE 100
FORT LAUDERDALE, FLORIDA 33304

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW
ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
DRAWN BY: AAM
CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - CROSS SECTIONS

PROJECT:
**ALDI #13
CONGRESS BUSINESS
PARK P.U.D.**

FOR

CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP

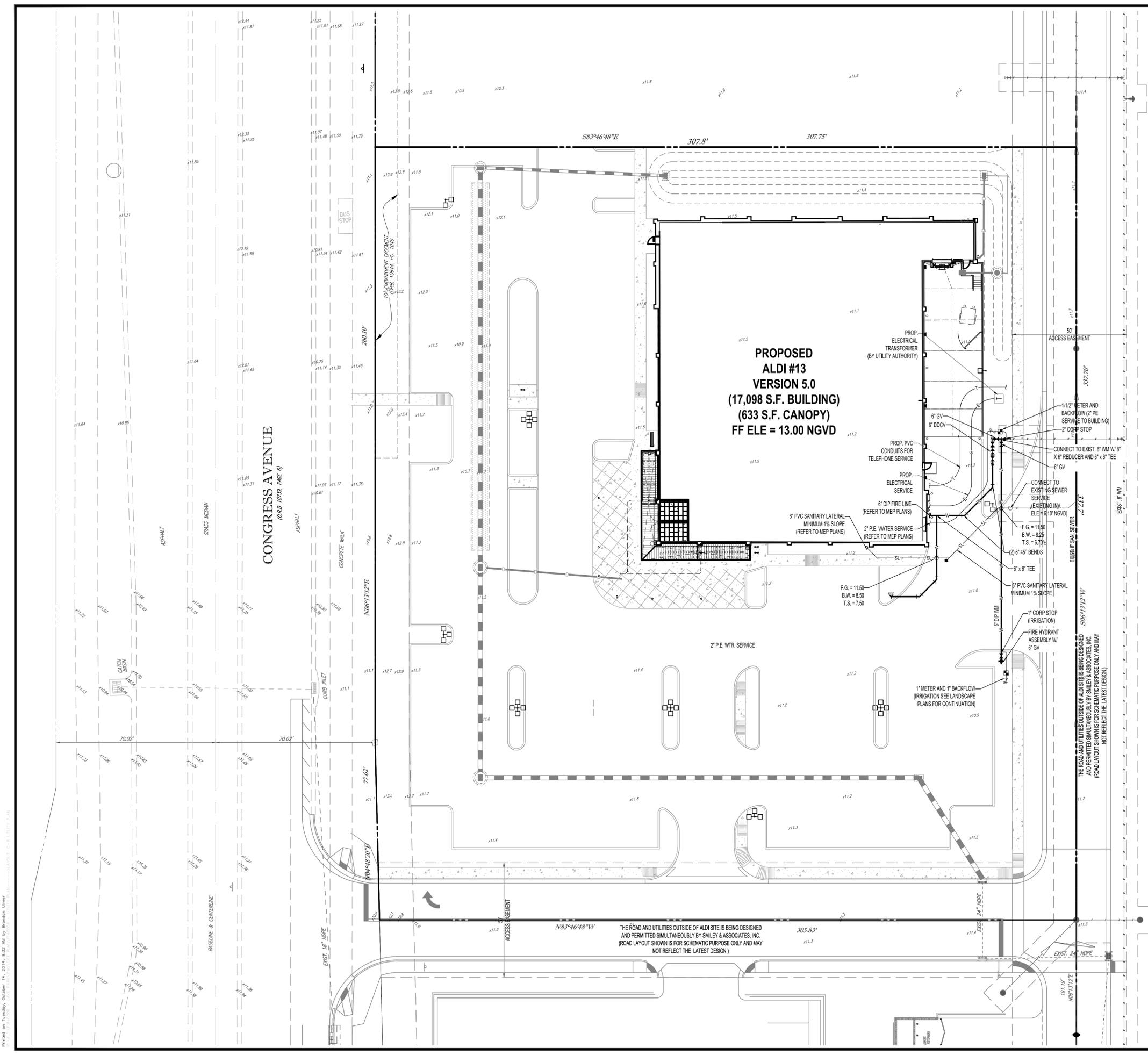
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

BRANDON ULMER

PROFESSIONAL ENGINEER
10/14/2014
FLORIDA LICENSE No. 68336
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C-7



THOMAS ENGINEERING GROUP
 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
 OFFICES:
 4950 W. KENNEDY BLVD.
 SUITE 600
 FORT LAUDERDALE, FLORIDA 33309
 1000 CORPORATE DR.
 FORT LAUDERDALE, FLORIDA 33304

REVISIONS

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW
 ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
 DRAWN BY: AAM
 CHECKED BY: BU
 DATE: 02/14/14
 CAD I.D.: F140008 - UTILITY PLAN

**ALDI #13
CONGRESS BUSINESS
PARK P.U.D.**

FOR

CITY OF LAKE PARK
FLORIDA

THOMAS ENGINEERING GROUP

RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33304
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.ThomasEngineeringGroup.com

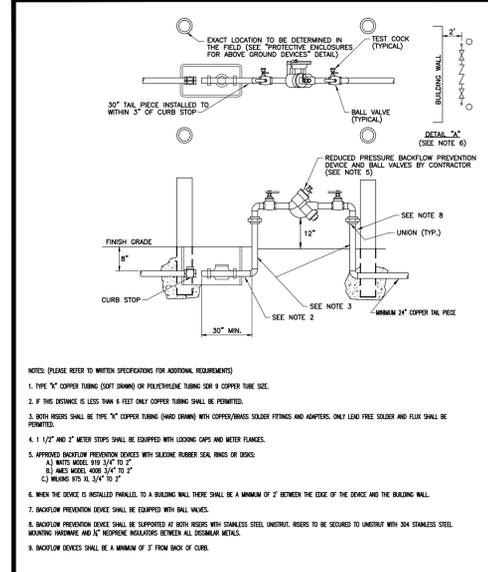
BRANDON ULMER

PROFESSIONAL ENGINEER
 10/4/2014
 FLORIDA LICENSE NO. 68336
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

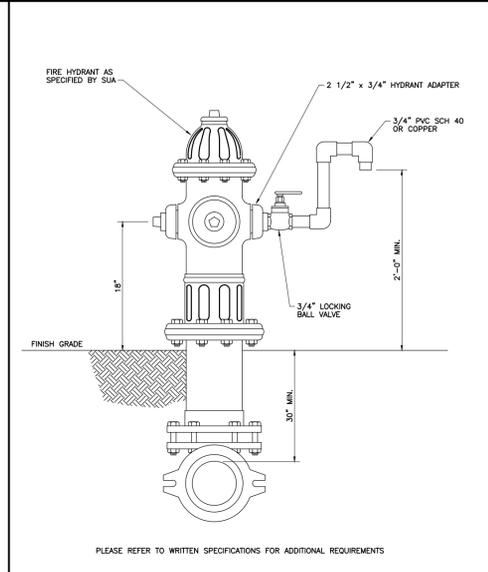
SHEET TITLE:
UTILITIES PLAN

SHEET NUMBER:
C-8

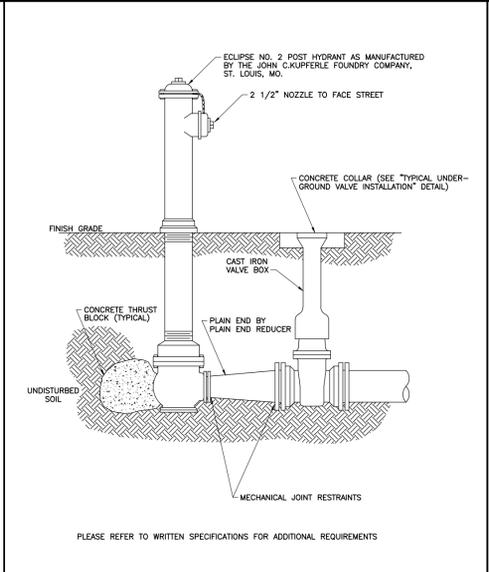
Printed on Tuesday, October 14, 2014, 8:32 AM by Brandon Ulmer



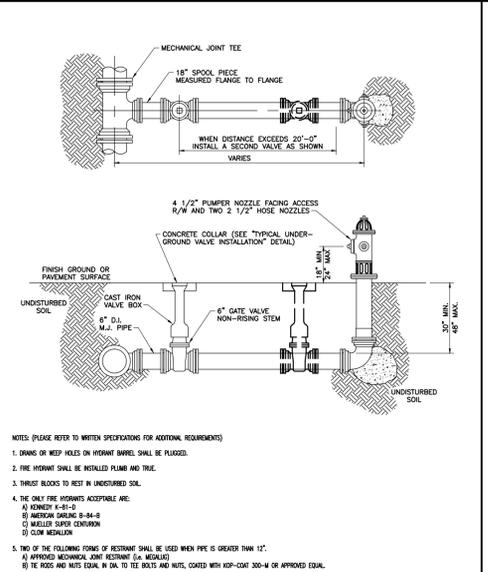
Water Meter and Backflow Prevention 3/4" to 2"
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 36



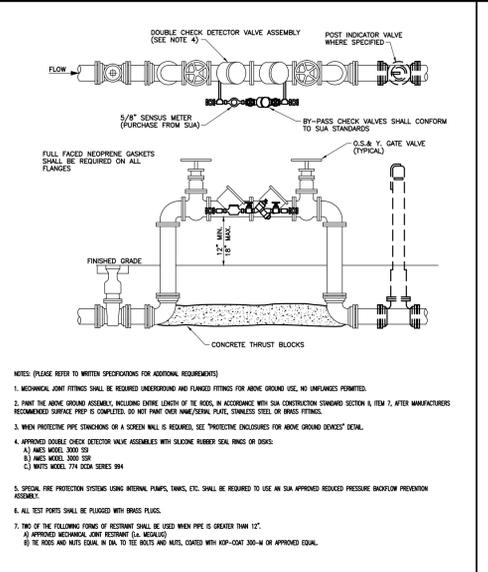
Sample Point - Fire Hydrant
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 21



Flushing Hydrant
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 22



Typical Fire Hydrant Installation
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 25



Above Ground Fireline
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 34

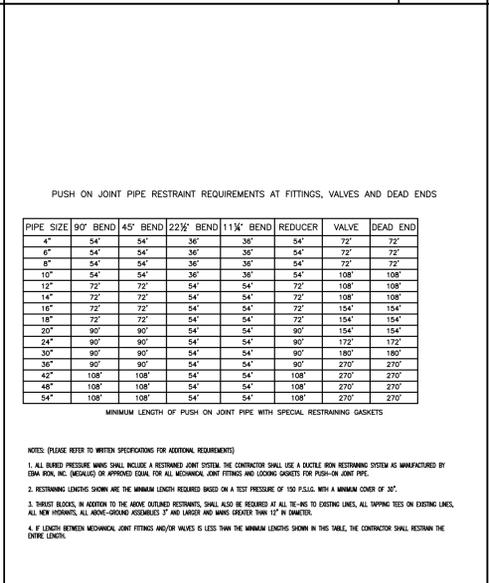


Water, Reclaimed Water and Sewer Separation Statement
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 2

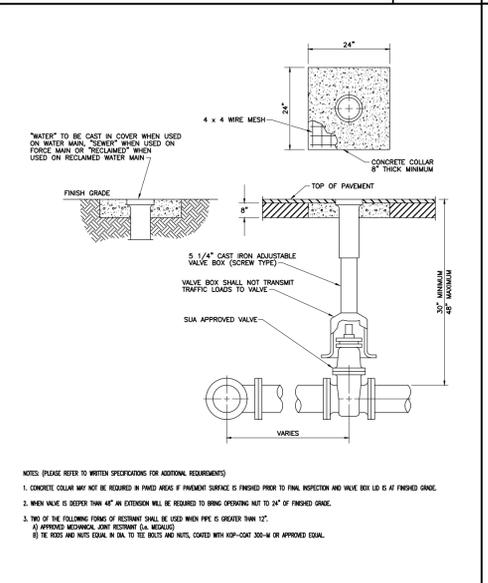
PUSH ON JOINT PIPE RESTRAINT REQUIREMENTS AT FITTINGS, VALVES AND DEAD ENDS

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	REDUCER	VALVE	DEAD END
4"	54"	54"	36"	36"	54"	72"	72"
6"	54"	54"	36"	36"	54"	72"	72"
8"	54"	54"	36"	36"	54"	72"	72"
10"	54"	54"	36"	36"	54"	108"	108"
12"	72"	72"	54"	54"	72"	108"	108"
14"	72"	72"	54"	54"	72"	108"	108"
16"	72"	72"	54"	54"	72"	154"	154"
18"	72"	72"	54"	54"	72"	154"	154"
20"	90"	90"	54"	54"	90"	154"	154"
24"	90"	90"	54"	54"	90"	172"	172"
30"	90"	90"	54"	54"	90"	180"	180"
36"	90"	90"	54"	54"	90"	270"	270"
42"	108"	108"	54"	54"	108"	270"	270"
48"	108"	108"	54"	54"	108"	270"	270"
54"	108"	108"	54"	54"	108"	270"	270"

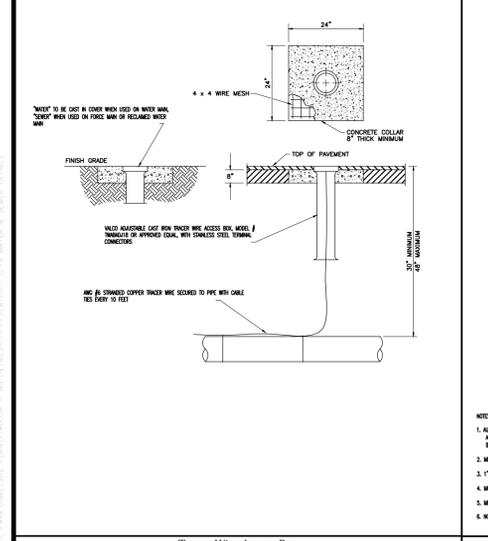
Pipe Restraint Table
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 4



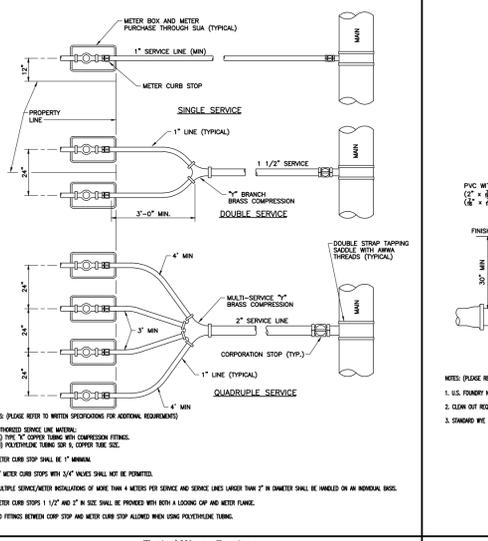
Typical Underground Valve Installation
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 6



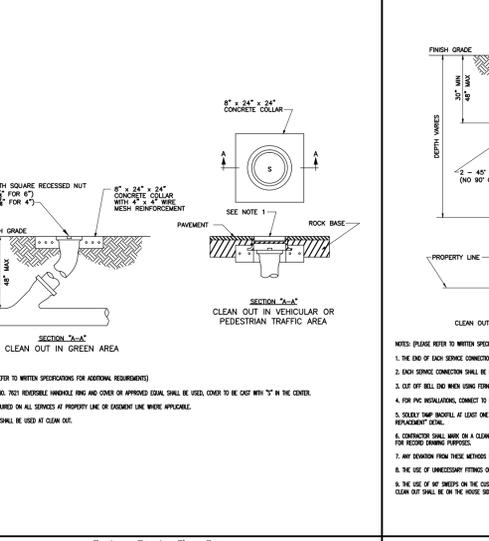
Typical Water Service Installation
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 10



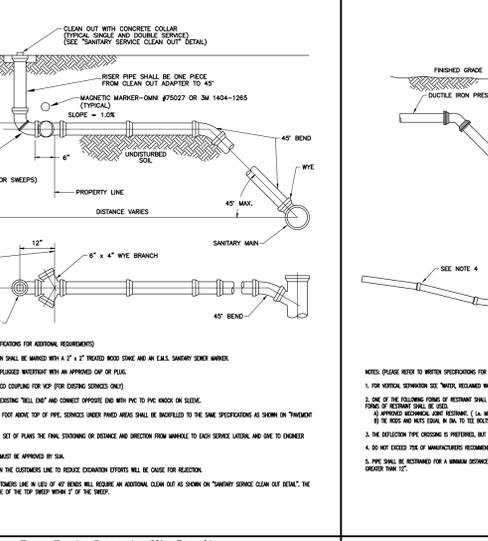
Tracer Wire Access Box
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 42



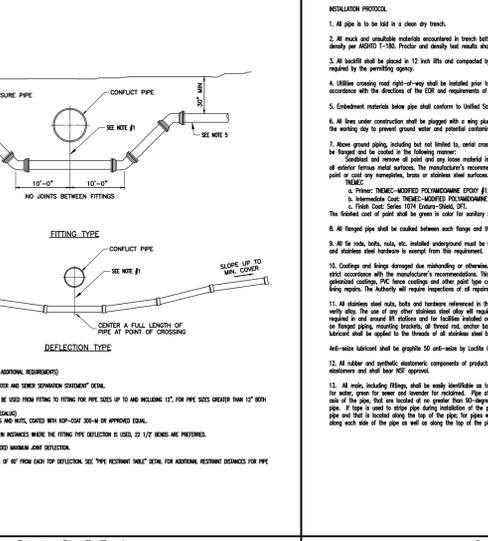
Typical Water Service
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 28



Sanitary Service Clean Out
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 57



Sewer Service Connection (Wye Branch)
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 55



Pressure Pipe Deflection
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 14



Installation Protocol
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 15

THOMAS ENGINEERING GROUP
 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
 OFFICES:
 4950 W. KENNEDY BLVD.
 SUITE 600
 FORT LAUDERDALE, FLORIDA 33309
 1000 CORPORATE DR.
 SUITE 100
 FORT LAUDERDALE, FLORIDA 33304

REV.	DATE	COMMENT	BY:
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

ENTITLEMENT
 PROJECT No.: F140008
 DRAWN BY: AAM
 CHECKED BY: BU
 DATE: 02/14/14
 CAD I.D.: F140008 - WS DETAILS

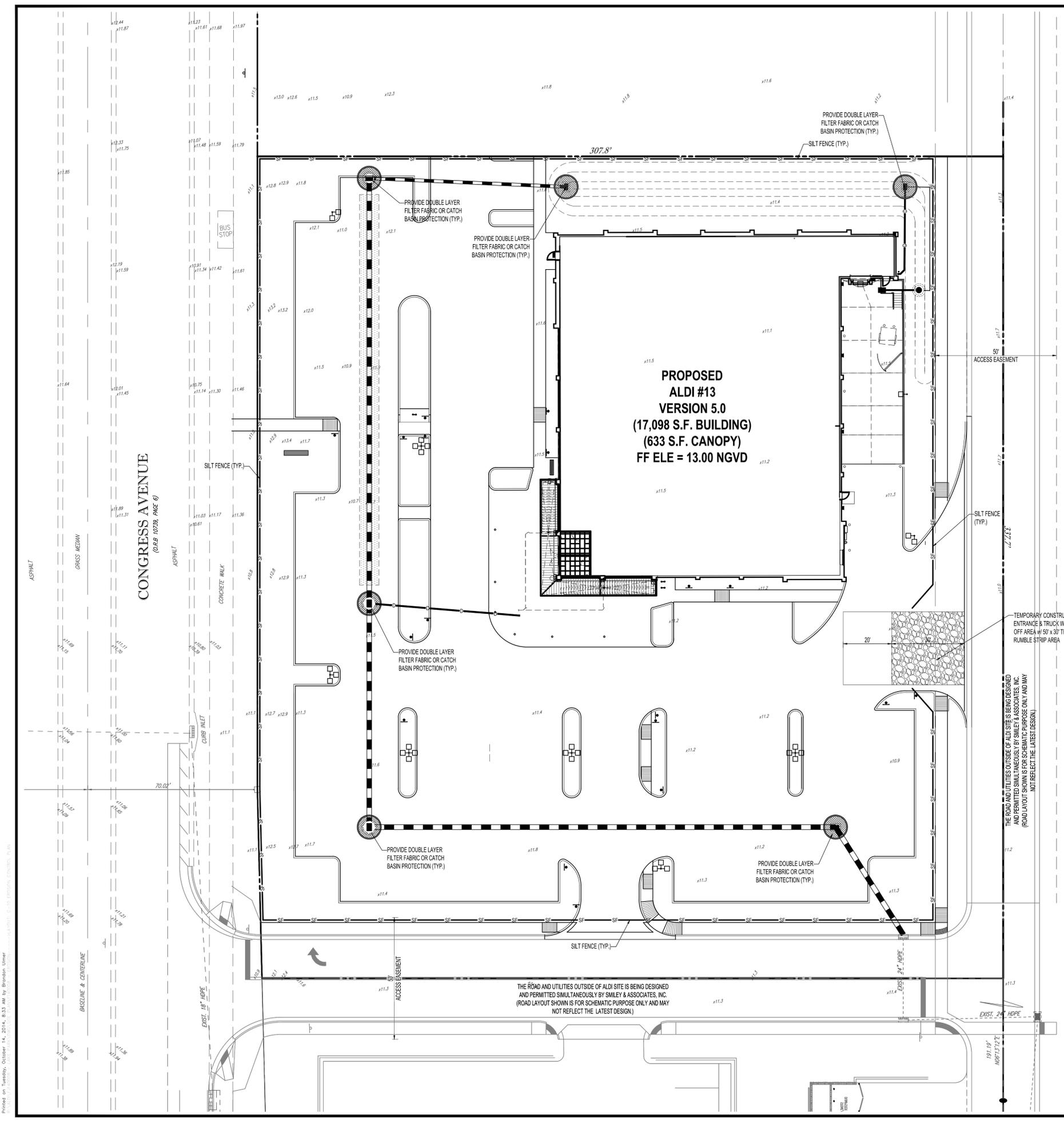
FOR
ALDI #13 CONGRESS BUSINESS PARK P.U.D.

ALDI
 CITY OF LAKE PARK, FLORIDA

THOMAS ENGINEERING GROUP
 RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33304
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.ThomasEngineeringGroup.com

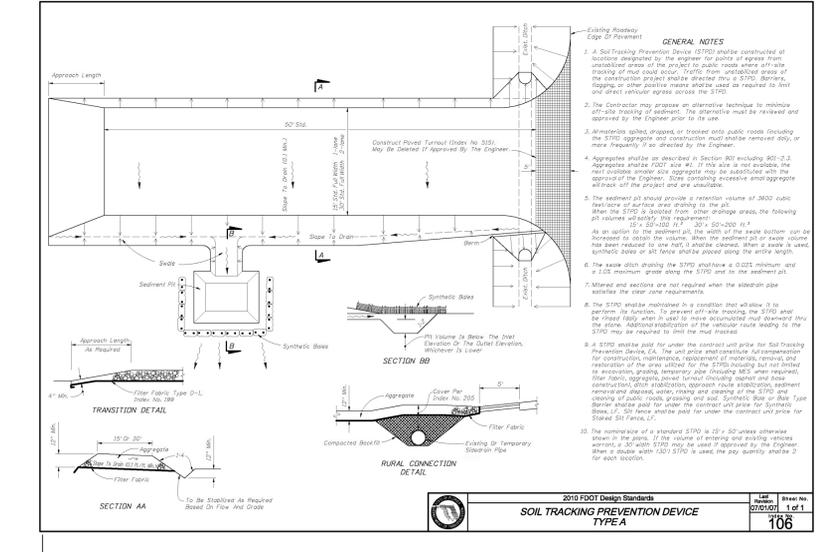
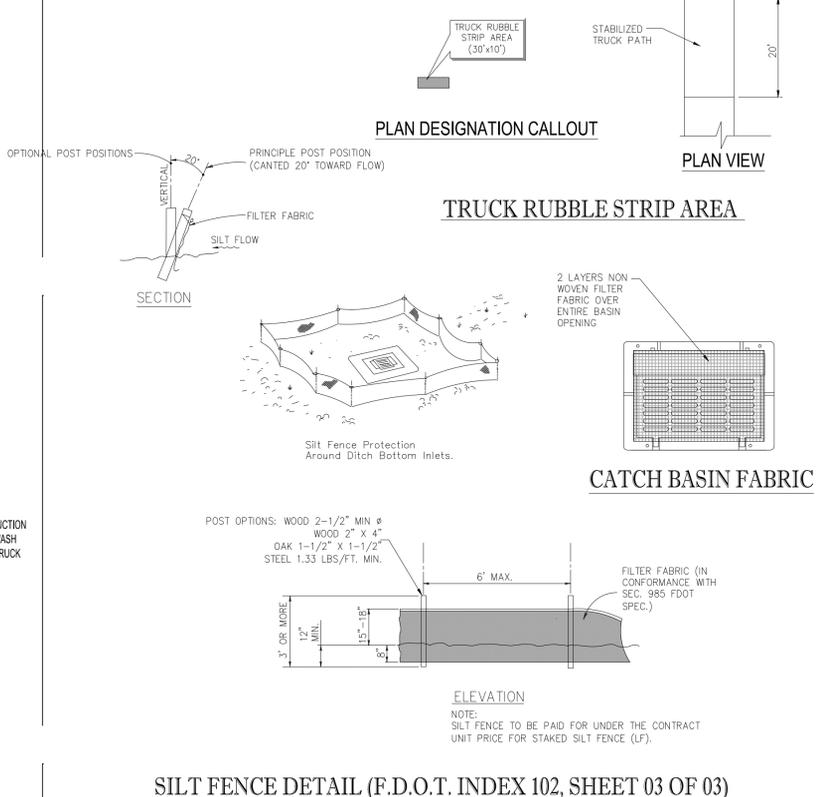
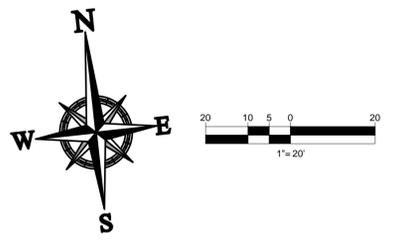
BRANDON ULMER
 PROFESSIONAL ENGINEER
 10142014
 FLORIDA LICENSE NO. 683345
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

WATER & SEWER DETAILS
 SHEET NUMBER:
C-9



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, TURBIDITY BARRIERS, SILT FENCE AND OTHER BMPS SHALL BE INSTALLED PRIOR TO DEMOLITION & CONSTRUCTION.



THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
4950 W. KENNEDY BLVD.
SUITE 600
FORT LAUDERDALE, FLORIDA 33309

1000 CORPORATE DR.
FORT LAUDERDALE, FLORIDA 33334

REVISIONS			
REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

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

www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
DRAWN BY: AAM
CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - EROSION

FOR

ALDI

CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP

RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

BRANDON ULMER

PROFESSIONAL ENGINEER
10142014
FLORIDA LICENSE NO. 68334
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
EROSION CONTROL PLAN

SHEET NUMBER:
C-10

THE WEDGE SERIES



The unique styling of the Wedge Series evolves around a universal optical assembly that accommodates both long range and wide beam distributions. Its bold, modern design will meet the challenges of today's lighting needs.

Fixture Specifications

- One-piece formed aluminum housing
- Access to lamp and ballast compartments through hinged door assembly
- One-piece tempered glass lens centered at 17" above horizontal for maximum performance with minimal back light
- Optical system fabricated of polished aluminum provides for optimum efficiency for long and wide light distribution
- Luminaire finished in weatherproof powder-coat paint
- High power factor ballast with >0.9 F starting
- Consult factory for glass shield options
- Lamp and arm included
- UL listed for wet locations

ORDERING INFORMATION

SAMPLE CATALOG NUMBER: **WFL XXXXXX XX X XX**

Series	Wedge Source	Finish	Distribution	Wedge
WFL	Wedge Series	White	DB	DB

SECURITY LIGHTING
Performance Designed Lighting Products
1085 Johnson Drive • Buffalo Grove, IL 60089 • TOLL-FREE: 800-544-4848 • PHONE: 847-279-0627 • FAX: 847-279-0642

EXTERIOR WALL SCNCE



The WS2000 Series is a very versatile wall scnce that would be architecturally pleasing in any architectural building design. Illuminate or complement building areas with any combination of uplighting and downlighting along with a variety of standard and custom color finishes in solid or contrasting colors.

Fixture Specifications

- All aluminum construction
- Luminaire finished in weatherproof powder-coat paint
- UL wet location listed
- Tempered clear glass lenses at top and bottom openings
- Lensed openings under outside band wash front and sides of main fixture housing with uniform illumination
- Contrasting color band available

ORDERING INFORMATION

SAMPLE CATALOG NUMBER: **WB2000 XXXXXX XX XX XXX**

Series	Wedge Source	Finish	Distribution	Wedge
WB2000	Exterior Wall Scnce	White	DB	DB

SECURITY LIGHTING
Performance Designed Lighting Products
1085 Johnson Drive • Buffalo Grove, IL 60089 • TOLL-FREE: 800-544-4848 • PHONE: 847-279-0627 • FAX: 847-279-0642

Laredo LMC-30LU LED Medium-Size Wallpack

Laredo 30 LED medium size wallpack offers both wide spacing and excellent uniformity. The 30 LED unit is perfect for 15-18ft applications providing spacing of up to 80 feet between fixtures. The 30 LED unit is available in a wide Type III or broad beam Type IV beam.

ORDERING INFORMATION

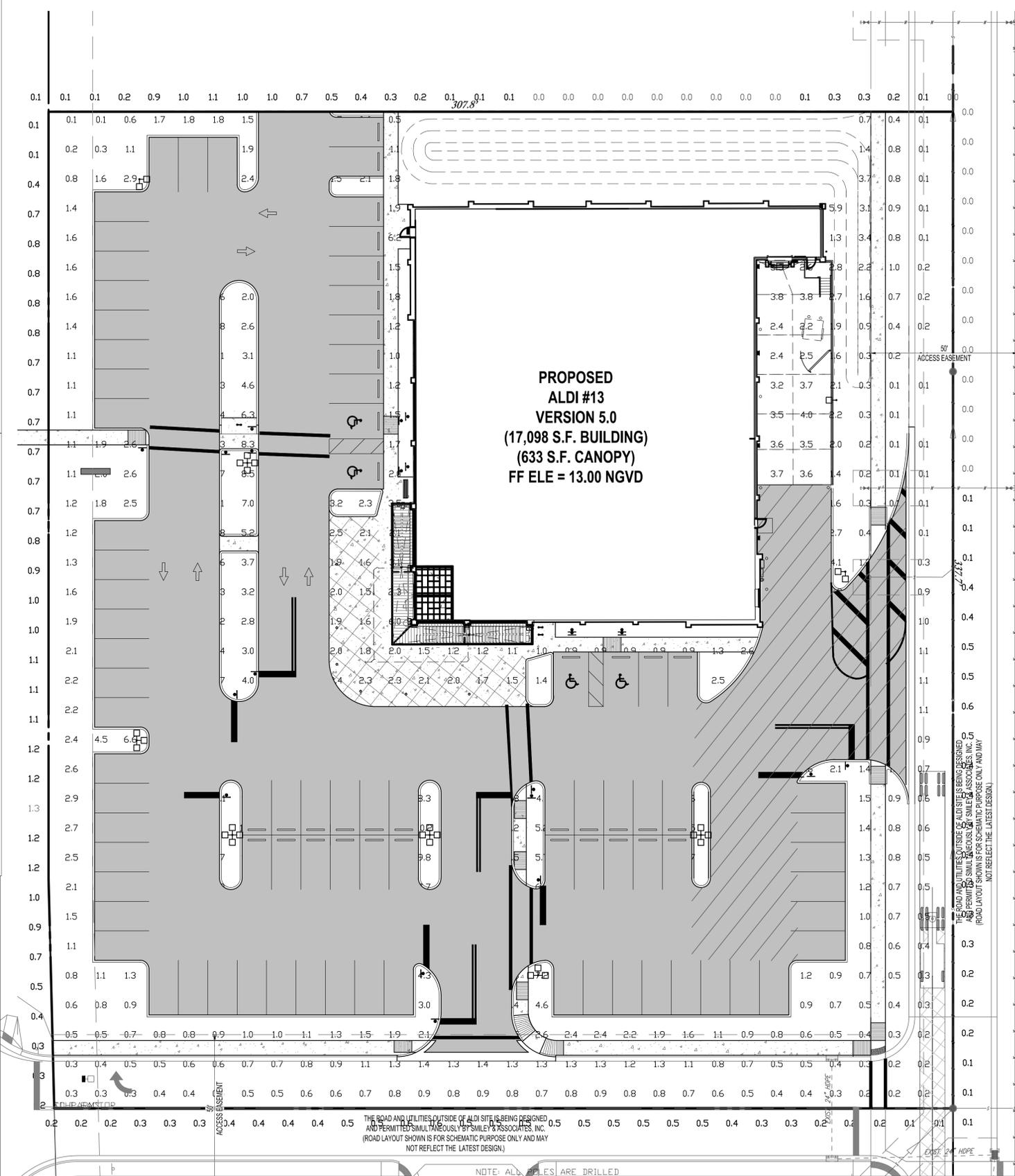
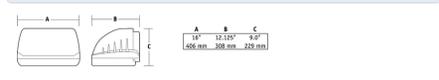
Series	Number of LED's/Source/Voltage	CCT	IES Distribution	Finish	Options
LMC	30LU 30 LED's, 7W Input	4K 4000K neutral	3° Type III	1 Bronze 2 Black 3 Gray 4 White 5 Polycarbonate	PC07 Photocured

ACCESSORIES - Order Separately

Part #	Description
AK-200K	Polycarbonate shield
PK-1	120V ballast photocured
PK-21A	120V/240V/277V ballast photocured

REPLACEMENT PART

Category Number	Description
7777101	Replacement Lens



PAVED SURFACE READINGS

Average 3.1
Maximum 11.0
Minimum 0.0

PROPERTY LINE READINGS

Average 0.4
Maximum 1.3
Minimum 0.0

- NOTES:**
- THE FOOTCANDLE LEVELS AS SHOWN ARE BASED ON THE FOLLOWING CRITERIA: ANY SUBSTITUTIONS IN SPECIFIED FIXTURES OR CHANGES TO LAYOUT WILL AFFECT LIGHTING LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF SECURITY LIGHTING.
 - THE CONTRIBUTION OF THE SFFIT / BUILDING LIGHTING IS NOT REFLECTED ON THE DRAWING UNLESS SFFIT / BUILDING LIGHTING IS SPECIFIED IN THE FIXTURE SCHEDULE BELOW.
 - DISTANCE BETWEEN READINGS 10'
 - FINAL ADJUSTMENTS TO AIMING ANGLE/DIRECTION OF FIXTURES MAY BE REQUIRED TO ELIMINATE LIGHT TRESPASS OR GLARE ONTO ADJOINING PROPERTIES OR ROADWAYS.
 - FOOTCANDLE LEVELS SHOWN ARE MAINTAINED. MAINTENANCE FACTOR USED ON THIS DRAWING IS 0.75
 - WB2000 WALL SCNCES TO BE ILLUMINATED FROM DUSK UNTIL DAWN FOR ACTIVE BUILDING ENTRANCE.
 - ALL OTHER SITE LIGHTING WILL BE ILLUMINATED FROM DUSK UNTIL 30 AFTER CLOSE OF BUSINESS.

NOTE: ALL POLES ARE DRILLED

FIXTURE TYPE	SYMBOL	QUANTITY	CONFIG	QUANTITY	MOUNTING HEIGHT	POLE TYPE	QUANTITY
WL-320PMH-PS-F-MT	☐	27	SQL	1	30'	CONCRETE BY OTHERS	9
			DBL90	2			
			TRPL90	2			
			QUAD	4			
WB2000-75LED-SG-UD-120	☐	6			9'		
LMC-30LU-SK-3-5-PC-120	■	4			12'		

* POLES SPECIFIED ON THIS DRAWING ARE RATED FOR AN 130 MPH WIND LOAD. FOR AREAS WHERE THE WIND LOAD CRITERIA EXCEEDS 130 MPH, PLEASE CONSULT FACTORY FOR PROPER POLE SPECIFICATION AND MODEL NUMBER.

THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA. TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.



THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
OFFICES:
4950 W. KENNEDY BLVD. SUITE 600 FORT LAUDERDALE, FLORIDA 33309
1000 CORPORATE DR. SUITE 100 FORT LAUDERDALE, FLORIDA 33334

REVISIONS

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	AAM
2	10/14/14	REVISED PER CC COMMENTS	BMU

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
DRAWN BY: AAM
CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - PHOTOMETRIC PLAN

ALDI #13 CONGRESS BUSINESS PARK P.U.D.

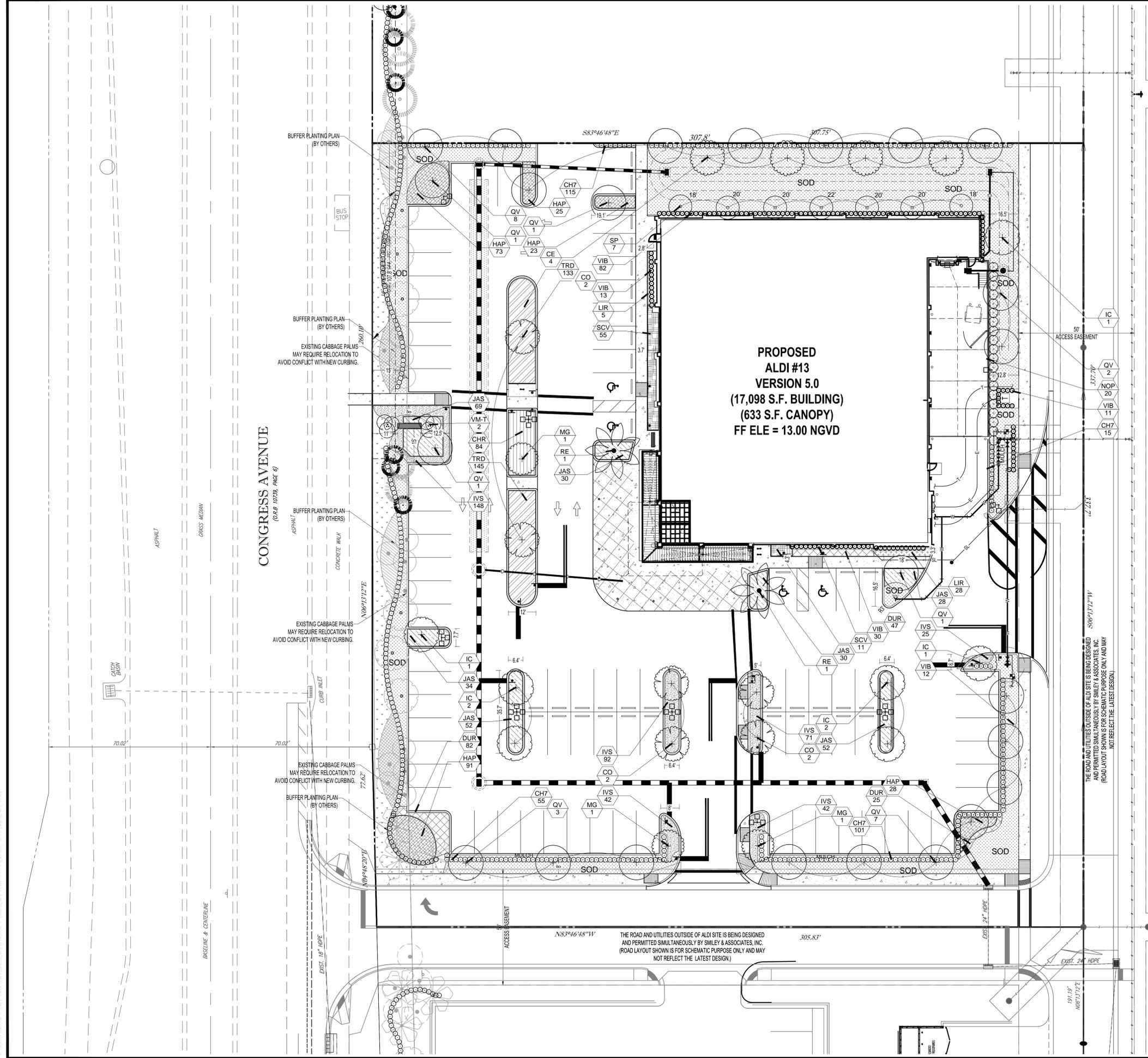
FOR **ALDI**
CITY OF LAKE PARK FLORIDA

THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

BRANDON ULMER
PROFESSIONAL ENGINEER
10142014
FLORIDA LICENSE No. 68345
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

PHOTOMETRIC PLAN
SHEET TITLE:
SHEET NUMBER:
C-11

Printed on Tuesday, October 14, 2014, 8:32 AM by Brandon Vetter



LOCATION MAP
1"=100'

PLEASE REFER TO SHEET LP-2 FOR PLANTING SCHEDULE AND PLANTING DETAILS; AND SHEET LP-3 FOR GENERAL LANDSCAPE NOTES.

IRRIGATION WATER SOURCE HAS NOT BEEN DETERMINED AT THIS TIME (PER MASTER PLAN). IRRIGATION PLANS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF BUILDING PERMIT.

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
 1000 CORPORATE DR.
 FORT LAUDERDALE, FLORIDA 33304
 4950 W. KENNEDY BLVD.
 SUITE 600
 TAMPA, FLORIDA 33609

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	MDG
2	10/14/14	REVISED PER CC COMMENTS	MDG

811 KNOW WHAT'S BELOW
ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
 DRAWN BY: AAM
 CHECKED BY: BU
 DATE: 02/14/14
 CAD I.D.: F140008 - LANDSCAPE PLAN

PROJECT:
**ALDI #13
PARK AVENUE WEST &
CONGRESS AVENUE**

FOR

CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP

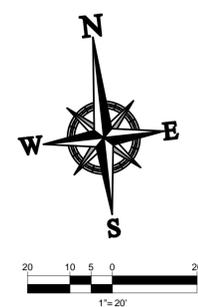
RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33334
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH

REGISTERED LANDSCAPE ARCHITECT
 10142014
 FLORIDA LICENSE NO. 6666871
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
LP-1



THE ROAD AND UTILITIES OUTSIDE OF ALDI SITE IS BEING DESIGNED AND PERMITTED SIMULTANEOUSLY BY SMILEY & ASSOCIATES, INC. (ROAD LAYOUT SHOWN IS FOR SCHEMATIC PURPOSE ONLY AND MAY NOT REFLECT THE LATEST DESIGN.)

THE ROAD AND UTILITIES OUTSIDE OF ALDI SITE IS BEING DESIGNED AND PERMITTED SIMULTANEOUSLY BY SMILEY & ASSOCIATES, INC. (ROAD LAYOUT SHOWN IS FOR SCHEMATIC PURPOSE ONLY AND MAY NOT REFLECT THE LATEST DESIGN.)

PLANT SCHEDULE

TREES	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CALIPER	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
CE *	4	Green Buttonwood	Conocarpus erectus	B & B	3" Cal	12-14' Ht	6'	Yes	High	5' CT
CO *	6	Satinleaf	Chrysophyllum oliviforme	B & B	2.5" Cal	12' Ht	6'	Yes	High	
IC *	7	Dahoon Holly	Ilex cassine	B & B	2.5" Cal	12-14' Ht	5-6'	Yes	High	4' CT
MG *	3	Magnolia "Blanchard"	Magnolia grandiflora	B & B	2" Cal	12-14' ht.	8'	Yes	High	6' CT
QV *	24	Southern Live Oak	Quercus virginiana	B & B	3.5" Cal	14-16' ht.	6'	Yes	High	6' CT
PALM TREES	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CALIPER	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
RE *	2	Florida Royal Palm	Roystonea elata	B & B		20' gw		Yes	High	matched full heads
SP	7	Cabbage Palmetto	Sabal palmetto	B & B		18-22' oa	6-8'	Yes	High	8-12' CT
VM-T	2	Montgomery Palm	Veitchia montgomeryana	B & B		10-14' gw	12'	No	Medium	triple
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
CH7 *	286	Red Tip Cocoplum	Chrysobalanus icaco 'Red Tip'	NA	24"	30"	24"	Yes	High	Full to base
NOP *	20	Pink Oleander	Nerium oleander 'Hot Pink'	10 gal		5-6' Ht	3-4'	No	High	
VIB *	148	Sandankwa Viburnum	Viburnum suspensum	NA	24"	24"	18"	No	High	Full to base
SHRUB AREAS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
CHR *	84	Red Tip Cocoplum	Chrysobalanus icaco 'Red Tip'	n/a	24"	18"	18"	Yes	High	Full to base
HAP *	240	Fire Bush	Hamelia patens	n/a	24"	24-30"	18-24"	Yes	High	Full to base
JAS *	295	Southern Wax Jasmine	Jasminum simplicifolium	n/a	24"	18-24"	18"	No	Medium	Full to base
SCV	66	Variegated Schefflera	Schefflera calypttratus	3 gal	24"	18"	18"	No	High	Full to base
TRD	278	Fakahatchee Grass	Tripsacum dactyloides	n/a	24"	30"	18"	Yes	High	Full to base
GROUND COVERS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
DUR *	154	Sky Flower	Duranta repens 'Dwarf Golden'	n/a	18"	16-18"	16-18"	Yes	High	Full
IVS *	420	Dwarf Schillings Holly	Ilex vomitoria 'Schillings Dwarf'	n/a	18"	14-16"	14-16"	Yes	High	
LIR *	33	Lily Turf	Liriope muscari	1 gal	18"	12-14"	10-12"	No	High	Full clumps
SOD/SEED	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
SOD *	9,400 sf	St. Augustine Grass	Stenotaphrum secundatum	grass				No	Medium	
SOD2 *	1,752 sf	St. Augustine Grass	Stenotaphrum secundatum	grass				No	Medium	OFF SITE - PART OF CONGRESS AVE BUFFER

* TOWN OF LAKE PARK PREFERRED PLANT LIST

LANDSCAPE CODE COMPLIANCE CHART

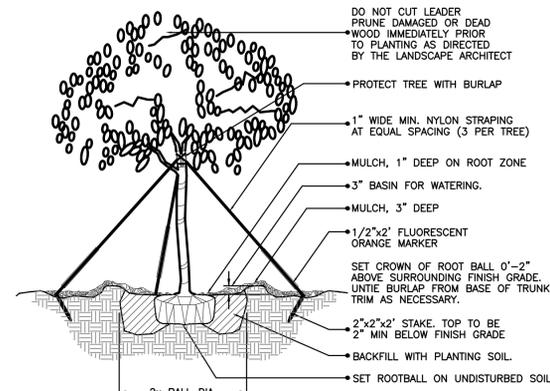
LAKE PARK LAND DEVELOPMENT CODE; SEC 78-253

ALDIS MARKET

TOTAL LOT AREA: 87,445 sq.ft. (2.007 Acres.)
 CURRENT ZONING: PUD
 TOTAL PERVIOUS AREA: 20,211 sq.ft.

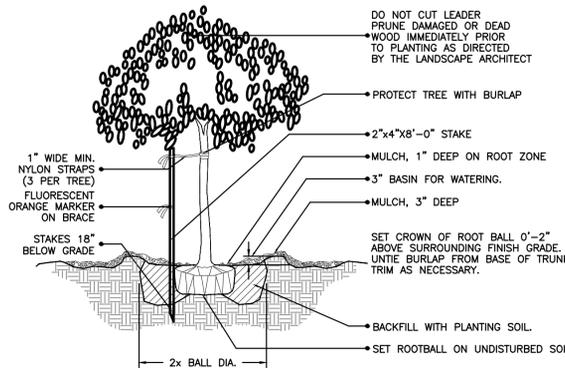
	REQUIRED	PROVIDED
SEC. 78.253(a)(1): 40% Maximum of Total Landscape Area may be covered with turf 20,211 sq. ft. x 40%	8084 sq. ft. max	6449 sq. ft. (9400 less 2951 in retention)
SEC. 78.253 (h)(1) 8' Landscape Buffer at Perimeter 15' Landscape Buffer at Public R/O/W	8' Buffer 15' Buffer	Provided Provided
SEC. 78.253 (h)(2) Maximum spacing of trees at Public R/O/W not to exceed 20' on center Perimeter Buffers for remainder of Property @ 1 Tree/40' if 927.28 lf @ 1 tree/40'	24 Trees	24 Trees Provided (refer to plans by Gentle & Associates)
SEC. 78.253 (h)(3): 75% of all Proposed Species must be selected from the Town's Preferred Plant List 7 Tree Species 10 Shrub Species	5.25 Species 7.5 Species	6 Species 8 Species

ALL PARKING SPACES ARE WITHIN 40' OF A CANOPY SHADE TREE



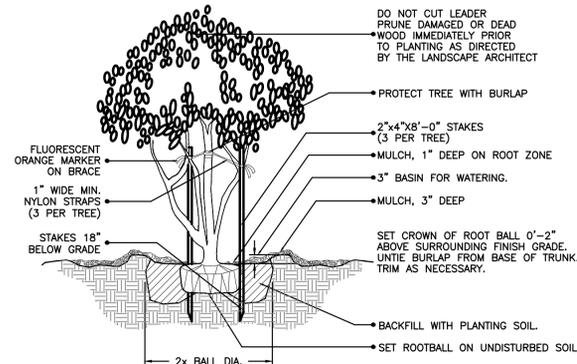
(2" cal. and over)
LARGE TREE PLANTING DETAIL

NTS



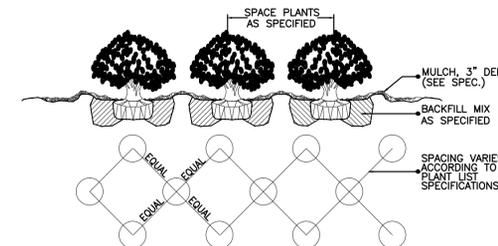
(2" cal. and under)
SMALL TREE PLANTING DETAIL

NTS



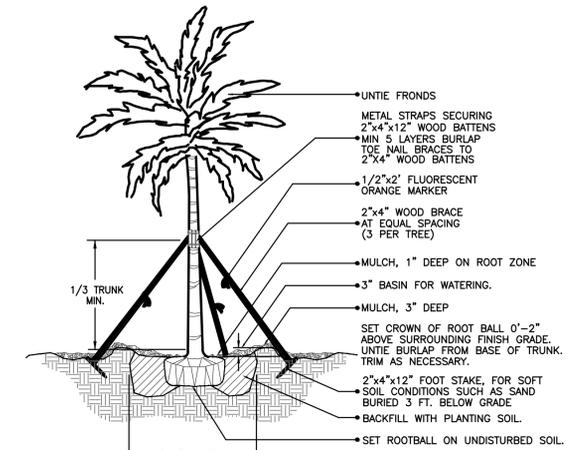
MULTI- TRUNK AND SMALL TREE
(2" cal. and under) PLANTING DETAIL

NTS



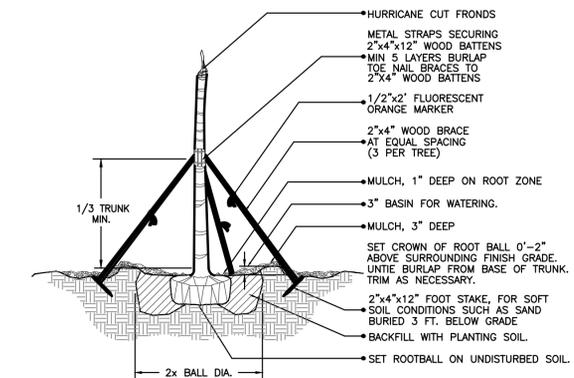
SHRUB / GROUND COVER
SPACING / PLANTING DETAIL

NTS



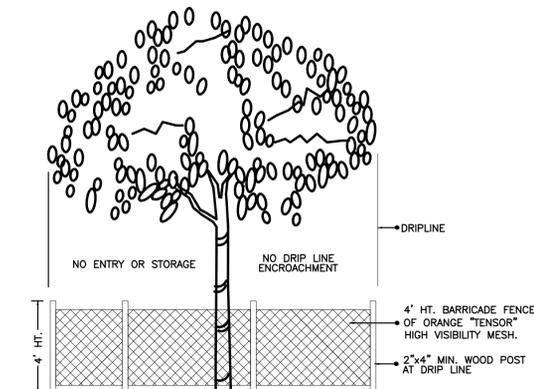
LARGE PALM PLANTING DETAIL

NTS



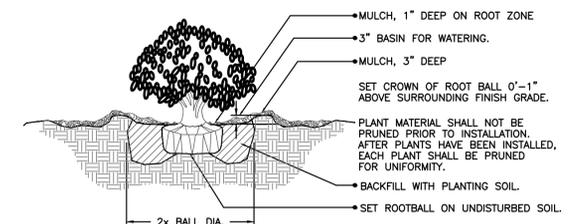
CIGARED SABAL
PALM PLANTING DETAIL

NTS



TREE PRESERVATION
BARRICADE FENCING DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

THOMAS
ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
 4960 W. KENNEDY BLVD.
 SUITE 600
 TAMPA, FLORIDA 33609
 813.988.1111
 1000 CORPORATE DR.
 SUITE 100
 FORT LAUDERDALE, FLORIDA 33304
 954.343.1111

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	MDG
2	10/14/14	REVISED PER CC COMMENTS	MDG

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
 DRAWN BY: AAM
 CHECKED BY: BU
 DATE: 02/14/14
 CAD I.D.: F140008 - LANDSCAPE PLAN

PROJECT:
ALDI #13
PARK AVENUE WEST & CONGRESS AVENUE

FOR

CITY OF LAKE PARK
 FLORIDA

THOMAS
ENGINEERING GROUP

RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33334
 PH: (954) 202-7000
 FX: (954) 202-7070
 www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH

REGISTERED LANDSCAPE ARCHITECT
 10142014
 FLORIDA LICENSE NO. 6666871
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
LANDSCAPE PLANTING DETAILS

SHEET NUMBER:
LP-2

LANDSCAPE GENERAL NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER 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 RESULTING FROM NEGLIGENCE 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 AND SHRUBS, EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP—LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP—LINE.

2. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT TREES TOED OR DAMAGED BY THE BURNING. ALL MISPLACED AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY PERCENT (20%) PER INCH OVER FOUR INCHES (4") CALIPER, AS FIXED AND AGREED LIQUIDATED DAMAGES, OR AS MAY BE REQUIRED BY THE REGULATING GOVERNMENT AGENCY, WHICH-EVER IS GREATER. CALIPER SHALL BE MEASURED AT BREAST HEIGHT OR FOUR FEET (4') ABOVE SURROUNDING GROUND.

D. MATERIALS

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

MATERIALS SAMPLE SUBMITTALS
MULCH ONE (1) CUBIC FOOT
TOPSOIL, ONE (1) CUBIC FOOT
PLANTS ONE (1) 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 STANDARD PLANT NAMES, 1942 EDITION, ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS" PARTS I AND II, LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA NO. 1 AS AN ABSOLUTE MINIMUM UNLESS OTHERWISE SUPERCEDED BY A FLORIDA FANCY DESIGNATION, AS DETERMINED BY THE FLORIDA DEPARTMENT OF AGRICULTURE. ALL PLANTS SHALL BE HEALTHY, SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND FREE OF DISEASE AND INSECTS. INSECT EGGS AND LARVAE AND SHADY AND SHEDDING LEAVES SHALL BE REMOVED FROM PLANTS. PLANTS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANT LIST SHALL BE THE BASIS FOR THE VARIETY. PLANTS SHALL BE 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 IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF 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 OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH PRELIMINARY APPROVAL SHALL NOT SUPERSEDE THE RIGHT OF INSPECTION AND REJECTION 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 THICKNESS OF SOIL AND/OR MULCH DEPTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR 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 BE FERTILE, FRAGILE, AND OF A LOAMY CHARACTER, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND WELL-DRAINED. AREAS WITHIN PLANTING HOLES SHALL CONTAIN THREE (3) TO FIVE (5) TO FIVE (5) PARTS DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME, LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS. OR 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 NATIVE 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 DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO 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 UNBROKEN BAGS, 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 — AGRIFORM, OR APPROVED EQUAL.
3. SO2 — 8—8—8

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24—10—5 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED 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 CYPRUS MULCH SHALL BE USED.

H. DIGGING AND HANDLING

1. PROTECT ROOT SYSTEMS OR ROOTBALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER EROSION, AND OTHER HARMFUL CRITERIA AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PROTECTED FROM 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 ANTI-TRANSPIRANT PRODUCT (WILTFRUP® OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS 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 DAMAGED OR BROKEN. BURLAPPED PLANTS SHALL BE BURLAPPED 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 CUT WITHIN THE MINIMUM 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. CLEAR TRUNK (CT) SHALL BE AS BY "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. PRUNING PRACTICES OTHER THAN MINIMAL PRUNING OF FRONDS, PRIMARILY TO REACH A "CLEAR TRUNK" SPECIFICATION, MAY CONSTITUTE REJECTION, OR ALL PALMS SUBJECTED TO SUCH PRACTICE, LIKEWISE EXCESSIVE PRUNING OR "SHAVING" OF ROOTBALLS TO MEET "CLEAR TRUNK" CRITERIA MAY CONSTITUTE REJECTION ONISITE. ALL PALMS SHALL BE BRAGED 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 OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, AND SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER UNTIL THE PLANT HAS DEVELOPED A 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 SHALL 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 GROWN WHEN THEY HAVE BEEN SUCCESSFULLY REESTABLISHED 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 DEVELOPMENT 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 OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN A DRAWER'S TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE THE BASIS FOR CLARIFICATION PRIOR TO THE SUBMISSION OF BIDS. BIDDING SHALL TAKE PRECEDENCE. ALL DIMENSIONS AND/OR SPECIFICATIONS SHALL BE THE MINIMUM ACCEPTABLE.

M. FINE GRADING

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

2. THE LANDSCAPE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOIL AND/OR MULCH DEPTH. THE CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT—END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

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

N. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP ALL EXISTING AND IMPORTED LIMBEROCK AREAS OF ALL RUBBER AND TANKS, WATER, 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 BENEATH THE SOIL, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER OR DESIGNEE.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS LINES AND TANKS, WATER, SANITARY SEWER, STORM WATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

3. SUBGRADE EXCAVATION: SITE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMBEROCK AREAS TO A MINIMUM DEPTH OF APPROXIMATELY 20% GREATER THAN RECOMMENDED PLANTING SOIL DEPTH. SITE CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ONSITE SOURCE OR AN IMPORTED SOURCE. IF LIMBEROCK CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY SITE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, LANDSCAPE CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE OR CONTACT OWNER'S CONSTRUCTION MANAGER OR DESIGNEE FOR RESOLUTION.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. GENERAL: COMPLY WITH FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY—FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.

7. ALL PLANTING HOLES SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD TO NURSERY STOCK (28). UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SEE MATERIALS, SECTION D). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE. PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE SUPERVISED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "SETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "LET STOCK" OR EQUAL SHALL BE USED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS, CURBS, PAVING, AND OTHER HARDSCAPE MATERIALS WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION D (MATERIALS) OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING HOLE SHALL RECEIVE 21—GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:
— TWO (2) TABLETS PER 1 GAL. PLANT
— THREE (3) TABLETS PER 3 GAL. PLANT
— FOUR (4) TABLETS PER 10 GAL. PLANT
LARGER MATERIAL.
— TWO (2) TABLETS PER HALF INCH (1/2") OF TRUNK CALIPER

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE TOP OF THE ROOT SYSTEM (FOR SHRUBS AND GROUNDCOVER) OR TRUNK FLARE (TREES AND PALMS) WILL STAND ONE (1) TO TWO (2) INCHES ABOVE FINAL GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PLANTING HOLE. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

11. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, TURNING SOIL IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET OR OTHER TAMING DEVICE. ADD MORE WET SOIL MIXTURE, DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, ETC., SHALL BE PULLED FROM UNDERNEATH.

12. PRUNING: FOR DAMAGED OR BROKEN LIMBS, EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE SPECIES. ALL SUCKER GROWTH SHALL BE COMPLETELY REMOVED PRIOR TO DIGGING.

13. SHRUBS AND GROUNDCOVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED IN THE PLANT LIST. CULTIVATE ALL MASS PLANTING AREAS TO A MINIMUM DEPTH OF 6"; REMOVE AND DISPOSED ALL DEBRIS, TILL 4" OF PLANTING SOIL MIX INTO THE NEWLY TILLED PLANTING BED FOR GENERAL NUTRIENT DISBURSEMENT. MASS PLANTING BED IS NOW READY TO RECEIVE HOLES FOR NEW PLANTS. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

14. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. TREES SHALL USE ARBORTITE AS PER DETAIL SHEET. PALMS SHALL USE WOOD BRACING PER DETAIL SHEET.

15. MULCHING: PROVIDE A THREE INCH (3") MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB, GROUNDCOVER AND VINE BED AND TREE PIT (FOR TREES AND PALMS, MIN. THREE INCH (3") FROM EDGE OF TRUNK) — UNLESS OTHER REQUIRED BY LOCAL CODES AND SPECIFIED AS SUCH.

16. SYSTEMIC HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF WEEDS UNTIL FERTILITY (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"). HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY TO PREPARE FOR SOIL INSTALLATION.

17. SODDING: THE CONTRACTOR SHALL SOD ALL PERVIOUS 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.

a) THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS FOR TURF TO BE USED FOR VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECT, AND DISEASE OF ANY KIND. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER TO MAKE A SOLID, SODDED LAWN AREA.

b) SOD SHALL BE LAID IN ROWS WITH EVERY OTHER ROW STAGGERED JOINTWAYS BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOD TO INSURE A TIGHT FIT AT JOINTS.

c) SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PAVED AREAS, ADJACENT TO BUILDINGS. A FOUR INCH (4") MULCH STRIP SHALL BE PROVIDED IMMEDIATELY FOLLOWING SOD LAYING. THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER. CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED TO THOROUGHLY SATURATE THE SOIL BENEATH. IF, IN THE OPINION OF THE OWNER, TOP—DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN.

d) DURING DELIVERY, PRIOR TO AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY WEAR. THE SOD SHALL BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY WEAR. THE SOD SHALL BE INSTALLED DURING THE DAY OF ITS ARRIVAL.

6. LAWN MAINTENANCE:
a) WITHIN THE SITE, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL—ROOTED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE—SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKS AND PROCESS (INCLUDING REGRADING, IF NECESSARY).

b) WATER EVERY DAY FOR FOURTEEN (14) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) UNTIL FULLY ESTABLISHED OR UNTIL AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL AND PROGRAMMED ACCORDINGLY. COORDINATE WATERING SCHEDULE WITH NATURAL RAINFALL. RAINFALL EVENTS IN DURATION OF TWENTY (20) MINUTES OR MORE THAT PRODUCE MORE THAN ONE (1) INCH OF PRECIPITATION WILL NEGATE THE NEED FOR WATERING THE FOLLOWING DAY IF PREVIOUSLY SCHEDULED. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO A DEPTH OF FOUR INCHES (4").

P. CLEANUP

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN 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 (SUCH AS RE—STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF NINETY (90) CALENDAR DAYS COMMENCING AFTER ACCEPTANCE (SEE NEXT SECTION).

R. MAINTENANCE (ALTERNATE BID ITEM)

1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR LANDSCAPE AND IRRIGATION MAINTENANCE FOLLOWING THE INITIAL 90—DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

S. GUARANTEE

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL SOD INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNERS OR OWNER'S DESIGNEE.

3. REPLACEMENT: ANY PLANT NOT IN A HEALTHY, THRIVING GROWING CONDITION SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. SHOULD THE OWNER ELECT, TREES AND PALMS MAY BE GIVEN A PERIOD OF NINETY (90) DAYS BEFORE REMOVAL TO ALLOW THE CONTRACTOR TO RESUBMIT THE TREE OR PALM IN QUESTION AND BRING IT TO A THRIVING, HEALTHY CONDITION. ALL REPLACEMENTS SHALL BE PLANTS OF LIKE KIND, CONDITION AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED, AND MULCHED AS SPECIFIED WITH THESE SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER. ANY REPAIRS FROM THIS REPLACEMENT MATERIAL SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT MATERIAL SHALL BE GUARANTEED TO A ONE (1) YEAR PERIOD FROM THE DAY OF RECEIPT. REPLACEMENT ACCEPTANCE BY THE OWNER SHOULD REPLACE MATERIAL FAIL WITHIN THE GUARANTEE PERIOD. OWNER MAY OPT FOR A CREDIT OF THE MONETARY AMOUNT FOR THE REPLACEMENT.

MATERIALS, AT A RATE OF THE ORIGINAL CONTRACT BID RATE, IN LIEU OF AN ADDITIONAL REPLACEMENT.

4. IN THE EVENT THE OWNER ELECTS NOT TO CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER OR THEIR DESIGNEE, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH OF ITEMS UNDER REPLACEMENT WARRANTY. IT IS SOLELY THE OWNER'S RESPONSIBILITY TO SCHEDULE VISITS TO BE CONDUCTED PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

1. FINAL INSPECTION BY OWNER OR THEIR DESIGNEE AT THE END OF THE GUARANTEE PERIOD SHALL INCLUDE PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY PLANTS NOT MEETING THE CRITERIA OF HEALTHY, VIGOROUS, AND THRIVING AT THIS TIME, AND THAT HAVE NOT ALREADY BEEN REPLACED PREVIOUSLY UNDER SAID WARRANTY, SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. GRADING & DRAINAGE NOTES

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY THE RESPECTIVE UTILITY COMPANIES IN FLORIDA, CALL FLORIDA SUNSHINE AT 811.

2. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING SURFACES. PROVIDE VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES. FITCH ELEVATION BETWEEN SPOT GRADES. ALL PAVED AREAS MUST FIT TO DRAIN AT A MINIMUM SLOPE OF ONE—EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCY NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.

4. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, PROTECT BY "BEER BUMP" COVERED WITH BURLAP AND KEEP MOST VEGETATION IS TO REMAIN, MEET EXISTING GRADES. DO NOT FILL ABOVE BASAL FLARE OF EXISTING TREES.

V. UTILITY PLAN NOTES

1. CONTRACTOR SHALL INSTALL SCHEDULE 40 PVC CONDUIT (SLEEVES) FOR ALL IRRIGATION PIPING UNDER ALL PAVEMENT AREAS TO CONNECT ALL LANDSCAPE AREAS.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMITS OF CONSTRUCTION DUE TO HIS CONTRACT OPERATIONS.

W. SITE PREPARATION

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET THE OWNER AND IDENTIFY TREES AND SHRUBS WHICH ARE TO BE PROTECTED AS WELL AS THOSE WHICH ARE TO BE REMOVED. DO NO CLEARING WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.

2. TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED BY THE INSTALLATION OF FENCING AT THE DRIP LINE OR AS DIRECTED BY THE OWNER (SEE LANDSCAPE DETAIL SHEET). PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION. PROTECTIVE FENCING SHALL BE SUFFICIENT TO PREVENT CONSTRUCTION EQUIPMENT FROM COMPACTING SOIL AT THE ROOT ZONE AND DAMAGING TRUNKS AND BRANCHES.

3. IF IN ORDER TO PERFORM EXCAVATION WORK, IT SHOULD BE NECESSARY TO CUT ROOTS OF PLANTS TO BE SAVED. SUCH ROOTS SHOULD BE CUT NEATLY WITH A SHARP SAW, COVERED WITH BURLAP, AND KEPT MOIST UNTIL ROOTS ARE BACK FILLED. TEARS OR JAGGED CUTS TO ROOTS ARE UNACCEPTABLE.

4. TREE AND SHRUB REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT OF ENTIRE ROOT SYSTEMS AND SATISFACTORY OFF—SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE, AND EXTRANEOUS DEBRIS BROUGHT BY THE REMOVAL OPERATIONS.

5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMITS OF CONSTRUCTION DUE TO HIS CONTRACT OPERATIONS.

6. ALL REFUSE, DEBRIS, UNSUITABLE MATERIALS AND MISCELLANEOUS MATERIALS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF—SITE BY CONTRACTOR.

7. ALL INVASIVE EXOTIC VEGETATION SHALL BE DISPOSED OF OR TREATED AS PER THE LOCAL OR REGIONAL GOVERNING AUTHORITIES, REQUIREMENTS OR RECOMMENDATIONS.

X. ROOT CONTROL BARRIER

1. ROOT CONTROL PRODUCT SHALL BE A BIOLOGICAL BARRIER PRODUCT. PRODUCT SHALL BE BIO—BARRIER ROOT CONTROL SYSTEM, AS MANUFACTURED BY FIBREVERREEMAY, INC. AND DISTRIBUTED BY HORT ENTERPRISES, INC. HORT ENTERPRISES, INC. P.O. BOX 2468, POMPANO BEACH, FL 33061 1—800—988—4678

2. PRODUCT SHALL BE A BIOLOGICAL BARRIER UTILIZING LIME—RELEASE CAPSULES INTEGRATED INTO A GEOTEXTILE FABRIC. ACTIVE HERBICIDE SHALL BE TRIFLURALIN, AND MINIMUM TIME RELEASE OF EFFECTIVE PRODUCT SHALL BE 1—5 YEARS IN THE MOST ADVERSE CONDITIONS FOR SUCH A PRODUCT.

3. PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR ROOT CONTROL SYSTEMS.

4. USE PRODUCT WHERE TREES ARE WITHIN EIGHT FEET (8') OR LESS OF HARDSCAPE SURFACES INCLUDING CURBS, SIDEWALKS, STEPS, AND ROADWAYS.

5. SPECIFY 1 9.5" WIDTH OPTION.

6. WHERE CONDITIONS REQUIRE PRODUCT AS SET FORTH IN NO. 4 ABOVE, USE PRODUCT AT LEAST TEN FEET (10') IN EITHER DIRECTION FROM THE CENTER OF TRUNK ALONG LINEAR FEATURES SUCH AS CURBS, WALKWAYS, ETC. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A ROOT CONTROL SYSTEM WHERE ROOTS WOULD LIKELY CAUSE PHYSICAL DAMAGE TO ADJACENT HARDSCAPE SURFACES, FOUNDATIONS, OR OTHER ELEMENTS THAT MAY RECEIVE DAMAGE FROM ROOT SYSTEMS OF TREES.

Y. IRRIGATION

1. CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS. DESIGN TO BE SUBMITTED TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR TO VERIFY STATIC PRESSURE PRIOR TO DESIGN. CONTRACTOR IS RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET PRESSURE REQUIREMENTS. SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, SIZES, BACKFLOW PREVENTION, METERS, AND CONTROLLERS. ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION DEVICE INSTALLATION AND PERMITTING. CONTRACTOR SHALL NOT INSTALL IRRIGATION IN RIGHT—OF—WAY UNLESS REQUIRED BY CITY. NETAFIM DRIP IRRIGATION TO BE INSTALLED IMMEDIATELY AROUND BUILDINGS TO PREVENT WATER SPRAY ON BUILDING, WALKS, AND WINDOWS. NETAFIM PIPING TO BE BURIED JUST BENEATH SOIL SURFACE AND COVERED INSTALLED BY AN OWNER APPROVED CONTRACTOR.

2. DESIGNED SYSTEM SHALL CONSIST OF AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE WITH 100% OVERLAP, AND CONTAINING A RAIN SENSOR INSTALLED BY AN OWNER APPROVED CONTRACTOR. THIS SYSTEM SHALL BE INSTALLED AND OPERATIONAL WITHIN TEN (10) DAYS OF THE INITIAL LANDSCAPE INSTALLATION.

SITE NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER PRIOR TO STARTING WORK.

GENERAL PLANTING NOTES

1. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES

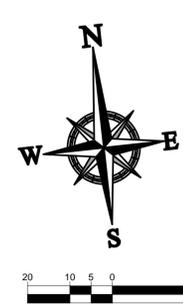
CONGRESS AVENUE
(C.A.B. 1072B, PAGE 6)

PROPOSED
ALDI #13
VERSION 5.0
(17,107 S.F. BUILDING)
(633 S.F. CANOPY)
FF ELE = 13.00 NGVD

PLEASE REFER TO SHEET LI-2 FOR
EQUIPMENT, VALVE AND WATERING
SCHEDULES, CRITICAL ANALYSIS AND
IRRIGATION NOTES, AND; SHEET LI-3 FOR
IRRIGATION DETAILS.



LOCATION MAP
1"=100'



THOMAS
ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
OFFICES:
1000 CORPORATE DR.
SUITE 600
FORT LAUDERDALE, FLORIDA 33304
4950 W. KENNEDY BLVD.
SUITE 600
MIRAGE, FLORIDA 33409

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	MDG

811 KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT

PROJECT No.:	F140008
DRAWN BY:	AAM
CHECKED BY:	BU
DATE:	02/14/14
CAD I.D.:	F140008 - IRRIGATION PLAN

PROJECT:
**ALDI #13
PARK AVENUE WEST &
CONGRESS AVENUE**
FOR

CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH
REGISTERED LANDSCAPE ARCHITECT
05/07/2014
FLORIDA LICENSE NO. 6666871
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
**IRRIGATION
PLAN**
SHEET NUMBER:
LI-1

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird 1806-PRS 15 Strip Series Turf Spray 6" pop up with pressure regulator.	19	30
	Rain Bird 1806-PRS 5 Series MPR Turf Spray 6" pop up with pressure regulator.	4	30
	Rain Bird 1806-PRS 15 Strip Series Turf Spray 6" pop up with pressure regulator.	47	30
	Rain Bird 1806-PRS 10 Series MPR Turf Spray 6" pop up with pressure regulator.	60	30
	Rain Bird 1806-PRS 12 Series MPR Turf Spray 6" pop up with pressure regulator.	12	30
	Rain Bird 1806-PRS 15 Series MPR Turf Spray 6" pop up with pressure regulator.	23	30
	Rain Bird 1806-PRS ADJ Turf Spray 6" pop up with pressure regulator.	6	30
	Rain Bird 1804-1400 Flood Flood Bubbler 4" pop up	46	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
	Rain Bird 3500-S Shrub Rotor, adjustable and full circle	5	25	0.77	20'
	Rain Bird 3500-S Shrub Rotor, adjustable and full circle	23	25	1.06	23'
	Rain Bird 3500-S Shrub Rotor, adjustable and full circle	1	25	1.40	27'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird XCZ-100-PRF-BF Drip Control Kit, 1" (25mm) DV valve, 1" (25mm) pressure regulating back flush filter.	1
	Rain Bird MDCFCAP Dripline Flush Valve cap in compression fitting coupler.	2
	Rain Bird AR Valve Kit 1" Air Relief Valve kit with 6" drip valve box.	2
	Area to Receive Dripline Rain Bird LDQ-08-12 (12) 1/4" Landscape Dripline, ideal for small-sized areas. 0.8GPH emitters at 12.0" O.C. Dripline laterals spaced at 12.0" apart, with emitters offset for triangular pattern.	562.8 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB Electric Remote Control Valve	10
	Febco 825Y 1" Reduced Pressure Backflow Preventer	1
	Rain Bird ESP8LXMEF-LXMM with (02) ESPLXMSM4 16 Station Capable Commercial Controller. Mounted on a Powder-Coated Metal Cabinet. Flow Sensing and Water Management Capabilities.	1
	Rain Bird RSD-BEx Rain Sensor, with bracket, extension wire	1
	Water Meter 1"	1
	Irrigation Lateral Line: Polyethylene and PVC Class 160 Polyethylene SDR-7 up to 1-1/4, then PVC Class 160 SDR 26 for 1-1/2" and larger. Only lateral transition pipe sizes 1 1/4" and above are indicated on the plan, with all others being 1" in size.	4,279 l.f.
	Irrigation Mainline: Polyethylene and PVC Class 200	1,111 l.f.
	Pipe Sleeve: PVC Schedule 80 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	807.3 l.f.
	Valve Callout Valve Number Valve Flow Valve Size	

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	WIRE	PSI	PSI @ POC	GPM	HEAD ELEV	VALVE ELEV	PRECIP
1	Rain Bird XCZ-100-PRF-BF	1"	Area for Dripline	436.0	41.76		7.88	0.00 ft	0.00 ft	1.35 in/h
2	Rain Bird PEB	1"	Bubbler	426.8	42.17	54.36	5.75	0.00 ft	0.00 ft	7.66 in/h
3	Rain Bird PEB	1"	Bubbler	374.8	41.97	54.17	5.75	0.00 ft	0.00 ft	7.66 in/h
4	Rain Bird PEB	1-1/2"	Shrub Rotor	209.9	29.31	46.42	32.66	0.00 ft	0.00 ft	0.96 in/h
5	Rain Bird PEB	1-1/2"	Turf Spray	339.7	34.94	52.55	33.18	0.00 ft	0.00 ft	0.80 in/h
6	Rain Bird PEB	1-1/2"	Turf Spray	397.8	34.54	52.12	32.76	0.00 ft	0.00 ft	0.89 in/h
7	Rain Bird PEB	1-1/2"	Shrub Rotor	626.6	29.65	48.16	33.88	0.00 ft	0.00 ft	0.63 in/h
8	Rain Bird PEB	1-1/2"	Turf Spray	635.7	35.03	54.81	36.33	0.00 ft	0.00 ft	2.40 in/h
9	Rain Bird PEB	1-1/2"	Turf Spray	553.1	34.89	54.77	36.40	0.00 ft	0.00 ft	0.81 in/h
10	Rain Bird PEB	1-1/2"	Turf Spray	441.7	35.05	53.16	33.18	0.00 ft	0.00 ft	0.90 in/h
11	Rain Bird PEB Common Wire	1-1/2"	Turf Spray	228.7	34.93	51.41	31.31	0.00 ft	0.00 ft	1.44 in/h
				1,111						

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN/WEEK	GAL/WEEK	GAL/DAY
1	Rain Bird XCZ-100-PRF-BF	Area for Dripline	1.35 in/h	1	45	354.6	
2	Rain Bird PEB	Bubbler	7.66 in/h	1	8	46	
3	Rain Bird PEB	Bubbler	7.66 in/h	1	8	46	
4	Rain Bird PEB	Shrub Rotor	0.96 in/h	1	63	2,058	
5	Rain Bird PEB	Turf Spray	0.80 in/h	1	75	2,489	
6	Rain Bird PEB	Turf Spray	0.89 in/h	1	68	2,228	
7	Rain Bird PEB	Shrub Rotor	0.63 in/h	1	96	3,252	
8	Rain Bird PEB	Turf Spray	2.40 in/h	1	25	908.3	
9	Rain Bird PEB	Turf Spray	0.81 in/h	1	75	2,730	
10	Rain Bird PEB	Turf Spray	0.90 in/h	1	67	2,223	
11	Rain Bird PEB	Turf Spray	1.44 in/h	1	42	1,315	
		TOTALS:			572	17,649	

CRITICAL ANALYSIS

Generated: 2014-07-02 08:43

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 37.50 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 55.00 psi
Elevation Change: 0.00 ft
Service Line Size: 1 1/2"
Length of Service Line: 5.00 ft
Pressure Available: 55.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 36.40 gpm
Flow Available at POC: 37.50 gpm
Residual Flow Available: 1.10 gpm

Critical Station: 8
Design Pressure: 30.00 psi
Elevation Loss: 0.00 psi
Friction Loss: 1.46 psi
Fittings Loss: 0.03 psi
Loss through Valve: 3.54 psi
Pressure Req. at Critical Station: 35.03 psi
Loss for Fittings: 0.03 psi
Loss for Main Line: 1.35 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 10.45 psi
Loss for Water Meter: 7.95 psi
Critical Station Pressure at POC: 54.81 psi
Pressure Available: 55.00 psi
Residual Pressure Available: 0.19 psi

NOTE A:
POINTS OF CONNECTION SHALL BE FROM 1" WATER METER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MINIMUM PRESSURE REQUIRED 29.65 PSI
DESIGN WATER PRESSURE 55 PSI
MAXIMUM SYSTEM DEMAND 36.40 GPM

NOTE B:
CONTROLLER IS AS SPECIFIED. CONTRACTOR TO VERIFY CONDITION AND FINAL LOCATION OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL MAINLINE AND RELATED EQUIPMENT LOCATION TO BE WITHIN PLANTERS AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

NOTE D:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. THOMAS ENGINEERING GROUP RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
- CONTRACTOR TO RECERTIFY EXISTING PUMP AND PVB IF APPLICABLE.

THOMAS
ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
OFFICES:
4960 W. KENNEDY BLVD.
SUITE 600
FORT LAUDERDALE, FLORIDA 33309
1000 CORPORATE DR.
SUITE 100
FORT LAUDERDALE, FLORIDA 33304
FLORIDA LICENSE NO. 6666871
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	MDG

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT
PROJECT No.: F140008
DRAWN BY: AAM
CHECKED BY: BJU
DATE: 02/14/14
CAD I.D.: F140008 - IRRIGATION PLAN

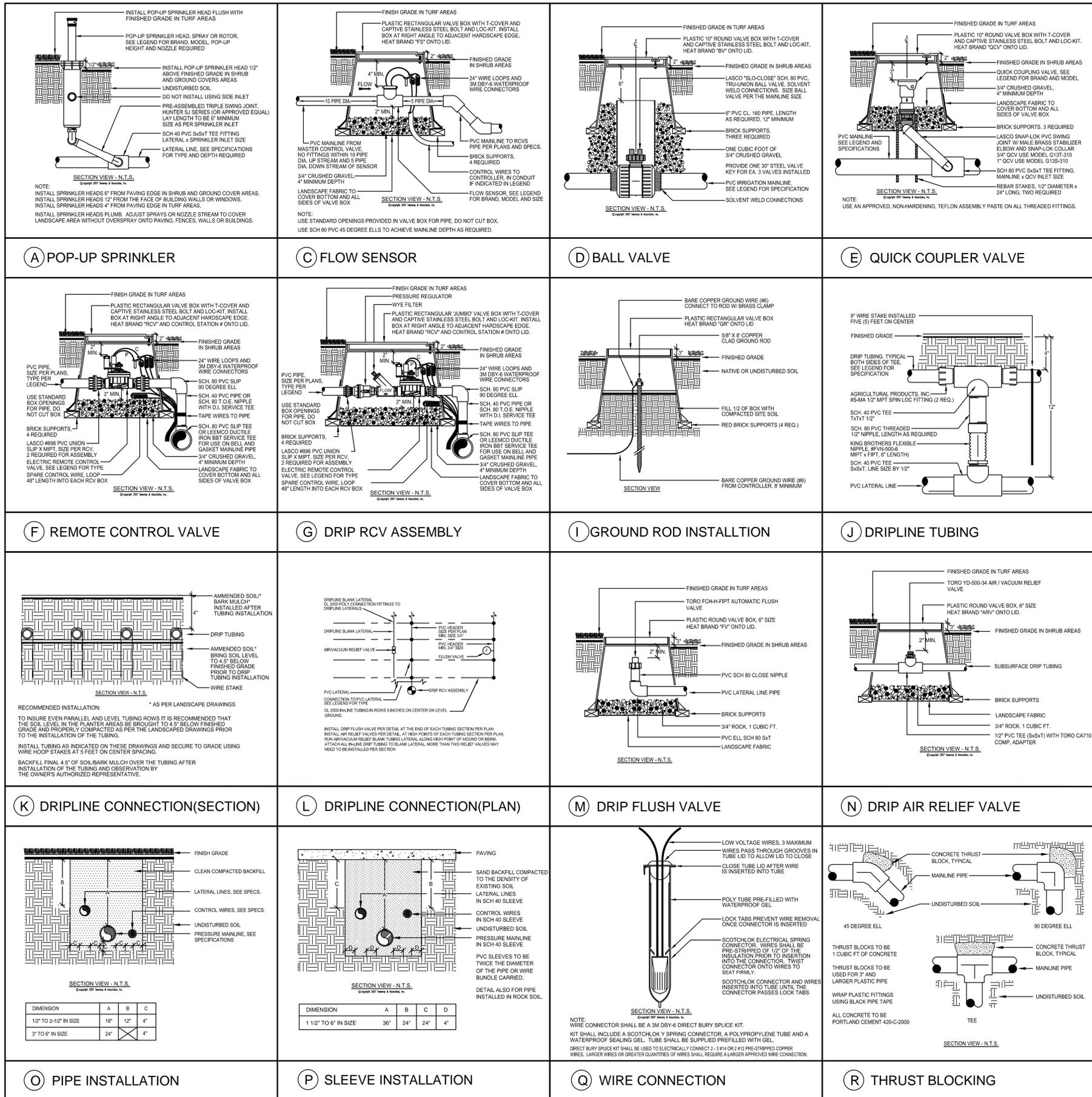
PROJECT:
ALDI #13
PARK AVENUE WEST & CONGRESS AVENUE
FOR

CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH
REGISTERED LANDSCAPE ARCHITECT
05/07/2014
FLORIDA LICENSE NO. 6666871
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
IRRIGATION SCHEDULES & NOTES
SHEET NUMBER:
LI-2



A POP-UP SPRINKLER

F REMOTE CONTROL VALVE

K DRIPLINE CONNECTION(SECTION)

O PIPE INSTALLATION

C FLOW SENSOR

G DRIP RCV ASSEMBLY

L DRIPLINE CONNECTION(PLAN)

P SLEEVE INSTALLATION

D BALL VALVE

H GROUND ROD INSTALLTION

M DRIP FLUSH VALVE

Q WIRE CONNECTION

E QUICK COUPLER VALVE

J DRIPLINE TUBING

N DRIP AIR RELIEF VALVE

R THRUST BLOCKING

DIMENSION	A	B	C
1/2" TO 2-1/2" IN SIZE	18"	12"	4"
3" TO 6" IN SIZE	24"	4"	4"

DIMENSION	A	B	C	D
1 1/2" TO 6" IN SIZE	36"	24"	24"	4"

THOMAS
ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
OFFICES:
4950 W. KENNEDY BLVD.
SUITE 600
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

REVISIONS

REV.	DATE	COMMENT	BY
1	05/07/14	REVISED PER TOWN COMMENTS	MDG

811 KNOW WHAT'S BELOW
ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

ENTITLEMENT

PROJECT No.: F140008
DRAWN BY: AAM
CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - IRRIGATION PLAN

PROJECT:
**ALDI #13
PARK AVENUE WEST &
CONGRESS AVENUE**

FOR

ALDI

CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP

RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH

REGISTERED LANDSCAPE ARCHITECT
05/07/2014
FLORIDA LICENSE No. 6666871
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
**IRRIGATION
DETAILS**

SHEET NUMBER:
LI-3

DESIGN ELEMENTS TAKEN INTO CONSIDERATION TO RECEIVE CREDIT FOR:

3 ITEMS FROM SECTION 78-332:
 1. DESIGN OF THE BUILDING AND THE BUILDING'S PROJECTION FROM THE BUILDING
 2. POSITIONING AND FINISHES OF THE BUILDING'S BRUSH AND BRICK BACKS
 3. ORNAMENTAL DETAILING INCLUDES CANOPY BRACKETS, DETAILED CORNICE, PERFORMED MEDALLIONS AND Z' REVEALS IN A PATTERN

BUILDING FACADE AND ELEVATIONS FROM SECTION 78-333

1. THIS BUILDING INCORPORATES CORNICES, PARAPETS, MOLINGS AND PILASTERS
 B. STONE ACCENT FEATURES
 C. STUCCO FEATURES BANDING AND REVEALS

2. BUILDING IS STUCCO AND STONE

3. ALL WALLS AND PROJECTIONS AND RECESSED ITEMS 1'-0" OR GREATER FOR NEIGHBORING PROJECT WAS CONSIDERED IN DESIGN AND ATTEMPT WAS MADE TO FOLLOW SUIT

5. COLORS WERE CHOSEN TO COMPLIMENT THE COLORS OF THE SURROUNDING AREA

6. ALL WALLS ARE HAVE DESIGN ELEMENTS

7. ALL GRAVES STOPS AND FLASHING WILL BE PANNED TO MATCH SURFACE COLOR, ALL METAL RAILINGS WILL BE PAINTED TO MATCH ACCESS COLOR

BUILDING COLOR AND FINISHES 78-334

1. ALL COLORS AND FINISHES MEET THE INTENT OF THE CODE

ARCHITECTURAL ELEMENTS 78-335

1. BUILDING HEIGHT MEETS CODE
 2. BUILDING HEIGHT MEETS CODE
 3. ENTRANCE HAS A DEEP CANOPY THAT WEARS THE FRONT TWO WALLS MORE THAN 40°
 4. BIKE RACKS ARE PROVIDED

PRIMARY ENTRANCE DESIGN FEATURES 78-335A, THE FOLLOWING ELEMENTS WERE ACHIEVED

A. CANOPY
 B. WALL PROJECTS A MIN. OF 1'-0" ON ALL 4 SIDES
 C. COVERED ENTRANCE IS 8'-0" DEEP

SECONDARY DECORATIVE ELEMENTS 78-335B WERE ACHIEVED

A. SILLS AND HEADER TRIM AT WINDOWS
 B. ENTRANCE PLAZA
 C. DECORATIVE SCORING IN CONCRETE
 D. MEDALLIONS
 E. BRUSH
 F. DECORATIVE LANDSCAPING
 G. VESUVIUM STAINING

4 CONT. MECHANICAL ROOFTOP EQUIPMENT WILL BE SET FAR ENOUGH AWAY FROM PARAPET EDGE TO ELIMINATE VISIBILITY IN NORMAL VIEWING CONDITIONS

5. CORNICES PROVIDED

WINDOWS AND DOORS TREATMENT 78-336

TRANSPARENT WINDOWS PROVIDED ALONG 2 PUBLIC SIDES OF MAIN WALLS EXTENDING MORE THAN 50% OF WALL LENGTH. AWNING, DOORS, PARAPETS, PARAPETS AND MATERIALS ARE ADDED TO ACHIEVE THE INTENT OF THE CODE.

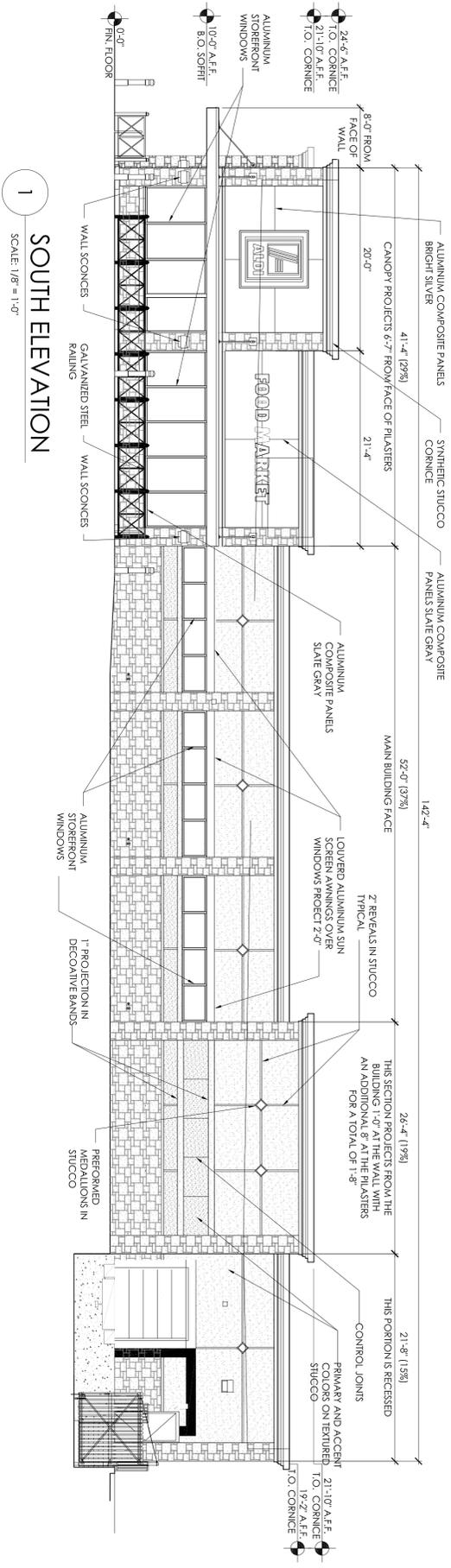
PREFERRED ROOF MATERIALS AND STILES 78-337

1. DESIGN TYPES
 A. THIS BUILDING HAS A FLAT ROOF WITH A MIN. 3'-2" PARAPET WERE PROVIDED FOR THE BUILDING FOR EQUIPMENT AND FLASHING
 B. STANDING SEAM AWNING PROVIDED AT EXIT DOOR

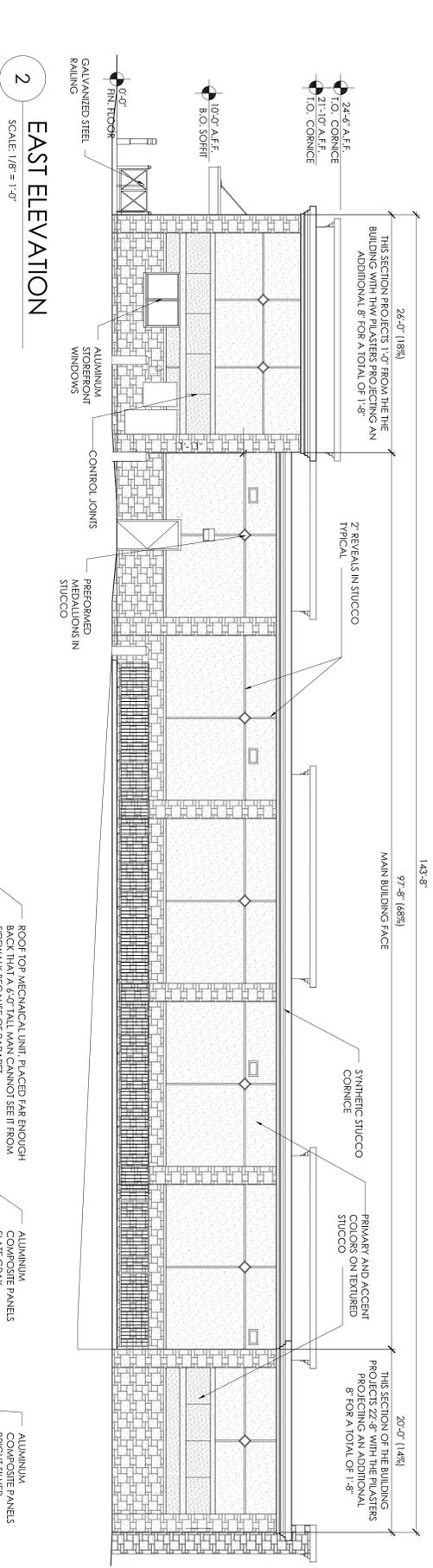
2. ROOF FEATURE ARE IN SCALE OF THE BUILDING

3. ALONG 2 WALLS (SOUTH AND WEST) THE PARAPET RISES MORE THAN 4'-0"

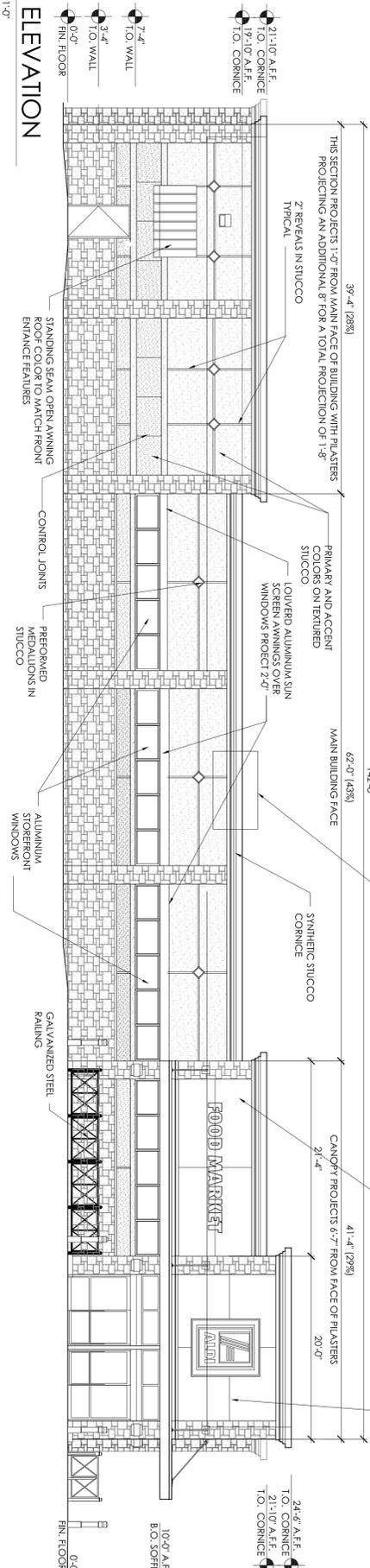
4. PARAPET HEIGHT ALSO RISES IN SEVERAL OTHER LOCATIONS



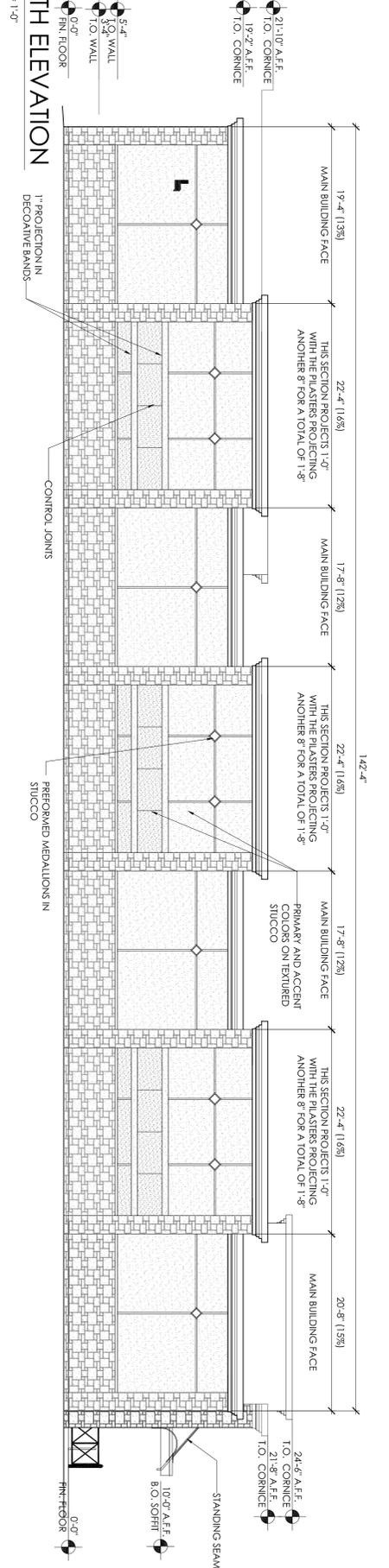
1 SOUTH ELEVATION
 SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
 SCALE: 1/8" = 1'-0"



3 WEST ELEVATION
 SCALE: 1/8" = 1'-0"



4 NORTH ELEVATION
 SCALE: 1/8" = 1'-0"

Issued:	Date:
A	
B	
C	
D	
Revisions:	Date:
1	
2	
3	
4	
5	

Drawing Attention
 Seal
 MICHAEL E. VINCH
 P.E. (1851)

DO NOT SCALE PLANS
 Copying, Printing, Software and other processes required to produce these plans are checked or struck the actual paper or layout. Therefore, Engineering with any need for additional dimensions or clarifications.

CP
Chuhai & Peterson
 Architects Engineers Planners

1925 Prospect Ave.
 Orlando, FL 32814
 P (407) 661-9100
 P (407) 661-9101
 www.c-p.com

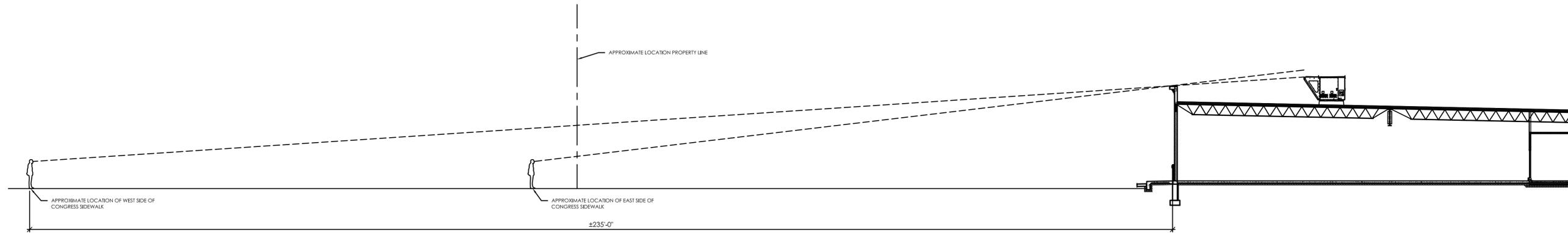
Florida Corporate Certificate #AA 0006526

ALDI, Inc.
 2651 S.R. 17 South
 Haines City, FL 33944
 (888) 353-5419
 (888) 353-5419

ALDI Food Store #13
 Southeast Corner of
 Congress Ave. & Park Ave. West
 Lake Park, FL
 Jurisdiction City of Lake Park
 Project Name & Location:

BUILDING ELEVATIONS
 Drawing Name:
 Date: 10-06-14
 Type: RHF-D-V5
 Drawn By: RJB
 Scale: 1/8"=1'-0"

Project No. 2130757
 A-201
 Drawing No.



UNABLE TO SEE UNIT BECAUSE, THE HEIGHT OF THE PARAPET AND THE ANGLE IN WHICH YOU CAN VIEW THE MECHANICAL UNIT MAKES VIEWING THE HVAC UNIT VERY UNLIKELY FROM THE SIDEWALK

Issued: _____ Date: _____

A	
B	
C	
D	

Revisions: _____ Date: _____

1	
2	
3	
4	
5	

Seal
MICHAEL E. LYNCH
FL # 10661

Drawing Alteration
It is a violation of law for any person, unless acting under the direction of licensed Architect, Professional Engineer, Landscape Architect, or Land Surveyor to alter any item on this document in any way. Any licensee who alters this document is required by law to affix his or her seal and to add the notation "Altered By" followed by his or her signature and the specific description of the alteration or revision.

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact Cuhaci & Peterson Engineering with any need for additional dimensions or clarifications.

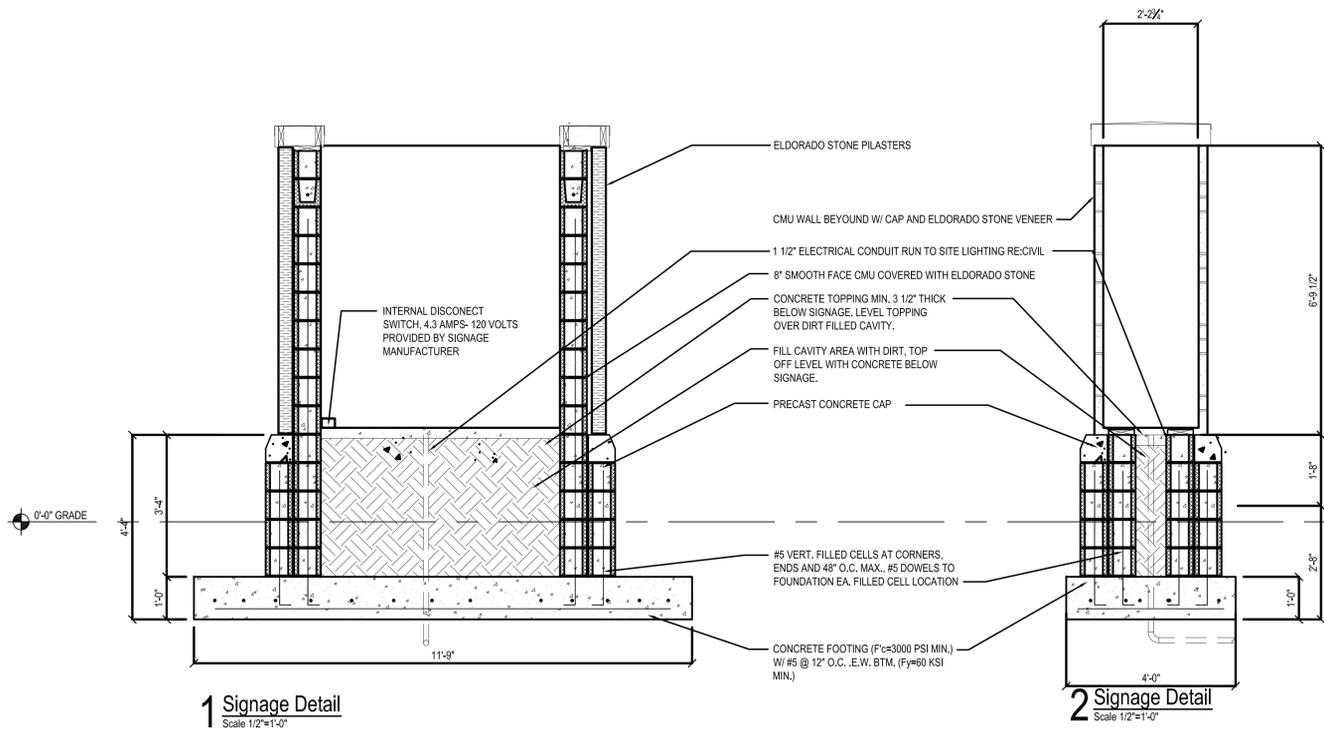
Cuhaci & Peterson
Architects Engineers Planners

1925 Prospect Ave.
Orlando, FL 32814
P (407) 661-9100
P (407) 661-9101
www.c-p.com
Florida Corporate Certificate #AA C000526

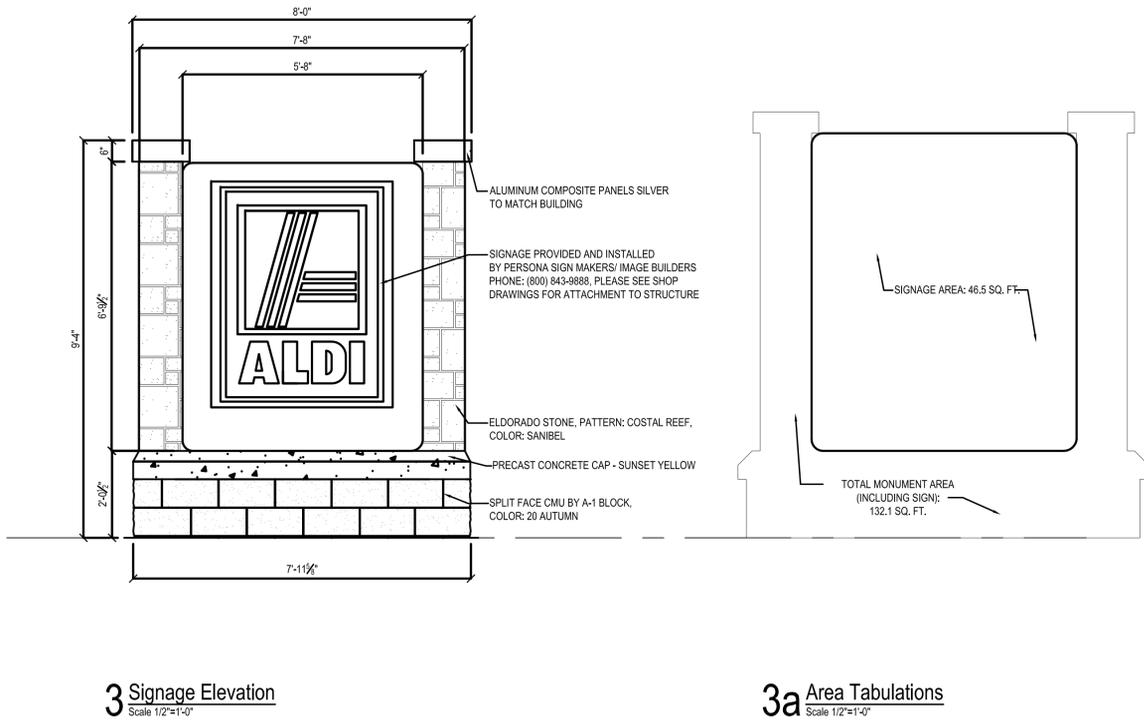
ALDI, Inc.
2651 S.R. 17 South
Haines City, FL 33844
(863) 353-4919 tel
(863) 353-4919 fax

ALDI Food Store #13
Southeast Corner of
Congress Ave. & Lake Park Ave
Lake Park, FL
Jurisdiction City of Lake Park
Project Name & Location:

BUILDING SECTION	
Drawing Name:	
Date: 08-07-14	Project No. 2130757
Type: RHFD-V5	
Drawn By: RJB	A-202
Scale: 1/8"=1'-0"	Drawing No.

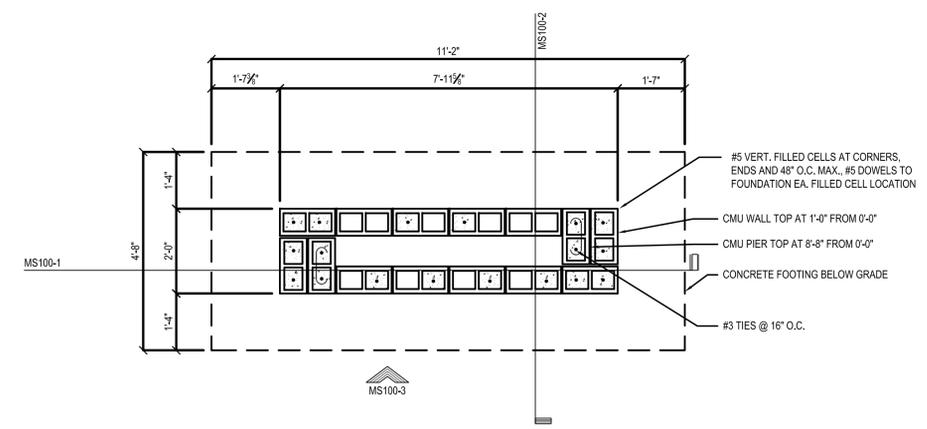


1 Signage Detail
Scale 1/2"=1'-0"



3 Signage Elevation
Scale 1/2"=1'-0"

3a Area Tabulations
Scale 1/2"=1'-0"



4 Footing & Foundation Plan
Scale 1/2"=1'-0"

GENERAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH WORK.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETE DESIGN OF THE STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS, OR OTHER PERSONS DURING CONSTRUCTION.
- OBSERVATION VISITS TO THE SITE BY EOR OR REPRESENTATIVES OF THE EOR MAY BE MADE DURING CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED HEREIN SHALL BE DISTINGUISHED FROM INSPECTION AND/OR TESTING SERVICES PERFORMED BY OTHERS, AND ARE NOT TO BE CONSTRUED AS SUPERVISION AND/OR MANAGEMENT OF CONSTRUCTION.
- DRAWINGS ARE NOT TO BE SCALED.
- THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT BETWEEN SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS.
- DESIGN DATA

WIND DESIGN:	170 MPH ULT 132 MPH ASD (FBC 2010)
VELOCITY:	1.00
IMPORTANCE:	II, ENCLOSED
BLDG. CATEGORY:	C
WIND EXPOSURE:	+/-0.18
INTERNAL PRESSURE COEFF:	

FOUNDATIONS / SITE WORK

- FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOILS REPORT:
NUTTING ENGINEERS
PROJECT # 1622
MARCH 2011
- ALLOWABLE SOIL PRESSURE IS 2,500 PSF (REF. A, ABOVE).

REINFORCED CONCRETE

- CONCRETE WORK SHALL CONFORM TO ACI-05 SPECIFICATIONS, CODES AND STANDARDS.
- CAST-IN-PLACE CONCRETE, UNLESS OTHERWISE NOTED (U.O.N.):
PORTLAND CEMENT PER ASTM C150
PROPORTIONED FOR MAX. ALLOWABLE UNIT SHRINKAGE OF 0.03%
- FOOTINGS
4000 PSI 28-DAY COMPRESSIVE STRENGTH, NORMAL WEIGHT,
MAXIMUM AGGREGATE SIZE OF 1", 0.50 MAX. W/C, 3"-4" SLUMP
- CONCRETE COVER OVER REINFORCEMENT:
FOOTINGS
3"
- REINFORCING, UNLESS OTHERWISE NOTED (U.O.N.):
1. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WIRE FABRIC SHALL BE CONTINUOUS, LAPPED ONE CROSS WIRE SPACING PLUS 2" MINIMUM.
3. WHERE CONTINUOUS REINFORCING IS SPECIFIED, SUCH REINFORCING MAY BE SPLICED WHERE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
4. AT CHANGES IN DIRECTION OF CONCRETE WALLS, BEAMS, AND FOOTINGS, PROVIDE CORNER BARS OF SAME SIZE, QUANTITY AND SPACING AS HORIZONTAL STEEL.
5. LAP SPLICES SHALL BE 48 BAR DIAMETERS, WIRED TOGETHER.

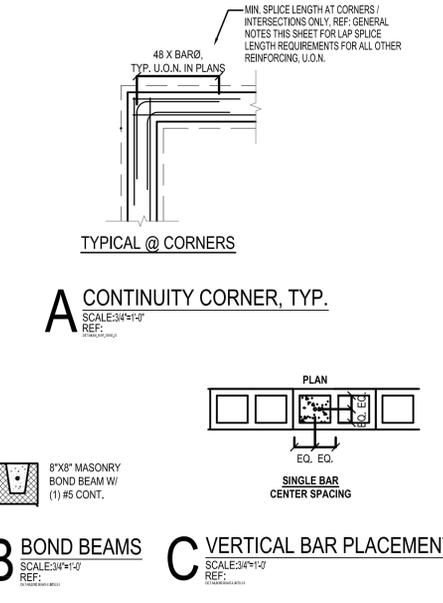
CONCRETE MASONRY UNITS (CMU)

- ALL MASONRY WORK SHALL CONFORM TO ACI SPECS FOR MASONRY STRUCTURES (ACI 530.1-05).
- CONCRETE BLOCK SHALL CONFORM TO ASTM C90, TYPE II, WITH A MIN. NET COMPRESSIVE STRENGTH AT 28-DAYS OF 1900 PSI (FM = 1500 PSI). NORMAL WEIGHT UNITS U.O.N.
- BELOW GRADE, MORTAR SHALL BE TYPE M. ABOVE GRADE, M OR S. GROUT TO CONFORM TO ASTM C270.
- GROUT FOR FILLED CELLS SHALL CONFORM TO ASTM C476, AND SHALL HAVE A SLUMP OF BETWEEN 8" AND 10". GROUT COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT 28 DAYS. 4"X4" MINIMUM CLEANOUTS REQUIRED FOR GROUT POURS EXCEEDING 4".
- PLACE ALL MASONRY IN RUNNING BOND WITH 3/8" MORTAR JOINTS. PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL. PROVIDE FULL MORTAR WEBS IN ALL COURSE OF GROUTED CELLS AND CELLS ADJACENT TO GROUTED CELLS.
- ALL EPOXY ANCHORS USED IN MASONRY SHALL OCCUR AT GROUTED, REINFORCED CELLS AND BE HILTI HIT-HY150.
- REINFORCING, UNLESS OTHERWISE NOTED (U.O.N.) IN PLANS:
1. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
2. LAP SPLICES SHALL BE AS FOLLOWS:
MINIMUM LAP SPLICE LENGTHS

BAR SIZE	SPLICE LENGTHS
#5	30"

NOTE: MECHANICAL SPLICES OF ACI TYPE 1 OR TYPE 2 MAY BE USED IN LIEU OF LAP SPLICES

- ALL REINFORCING HOOKS AND BENDS SHALL BE STANDARD ACI TYPE.
- ALL WALL DOWELS SHALL MATCH REINFORCING SIZE AND QTY.
- PAPS NOT PERMITTED AT MASONRY
- ALL MASONRY LOCATED BELOW GRADE SHALL BE GROUTED FILL.



Issued:	Date:
A	
B	
C	
D	
Revisions:	Date:
1	
2	
3	
4	
5	

Seal
MICHAEL E. LYNCH
FL # 10961

Drawing Alteration
It is a violation of law for any person, unless acting under the direction of licensed Architect, Professional Engineer, Landscape Architect, or Land Surveyor to alter any item on this document in any way. Any licensee who alters this document is required by law to affix his or her seal and to add the notation "Altered By" followed by his or her signature and the specific description of the alteration or revision.

DO NOT SCALE PLANS
Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact Cuhaci & Peterson Engineering with any need for additional dimensions or clarifications.

1925 Prospect Ave.
Orlando, FL 32814
P (407) 661-9100
P (407) 661-9101
www.c-p.com
Florida Corporate Certificate #AA C000526

2651 S.R. 17 South
Haines City, FL 33844
(863) 953-4919 tel
(863) 953-4919 fax

ALDI Food Store #13
Southeast Corner of
Congress Ave. & Lake Park Ave
Lake Park, FL
Jurisdiction City of Lake Park
Project Name & Location:

Monument
Sign
Drawing Name:

Date:	08-07-14	Project No.	2130757
Type:	RHFD-V5	Drawn By:	SGP
Scale:	1/8"=1'-0"		MS100
			Drawing No.