

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.
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FT. LAUDERDALE, FLORIDA 33334

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TAMPA, FLORIDA 33609

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

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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

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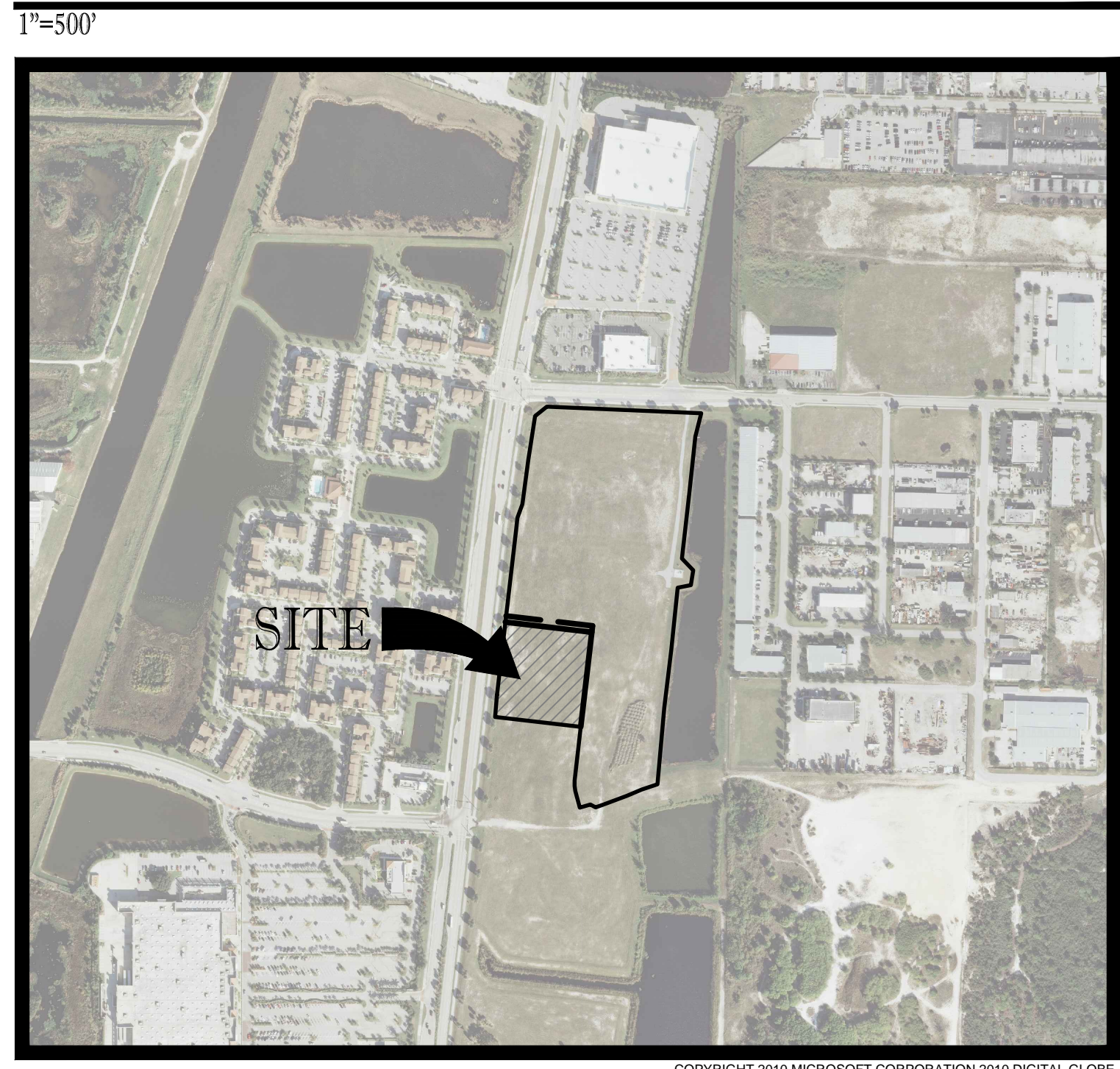
BRANDON ULMER

PROFESSIONAL ENGINEER
28/08/2014
FLORIDA LICENSE No. 68345
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
C-1

VICINITY \ AERIAL MAP



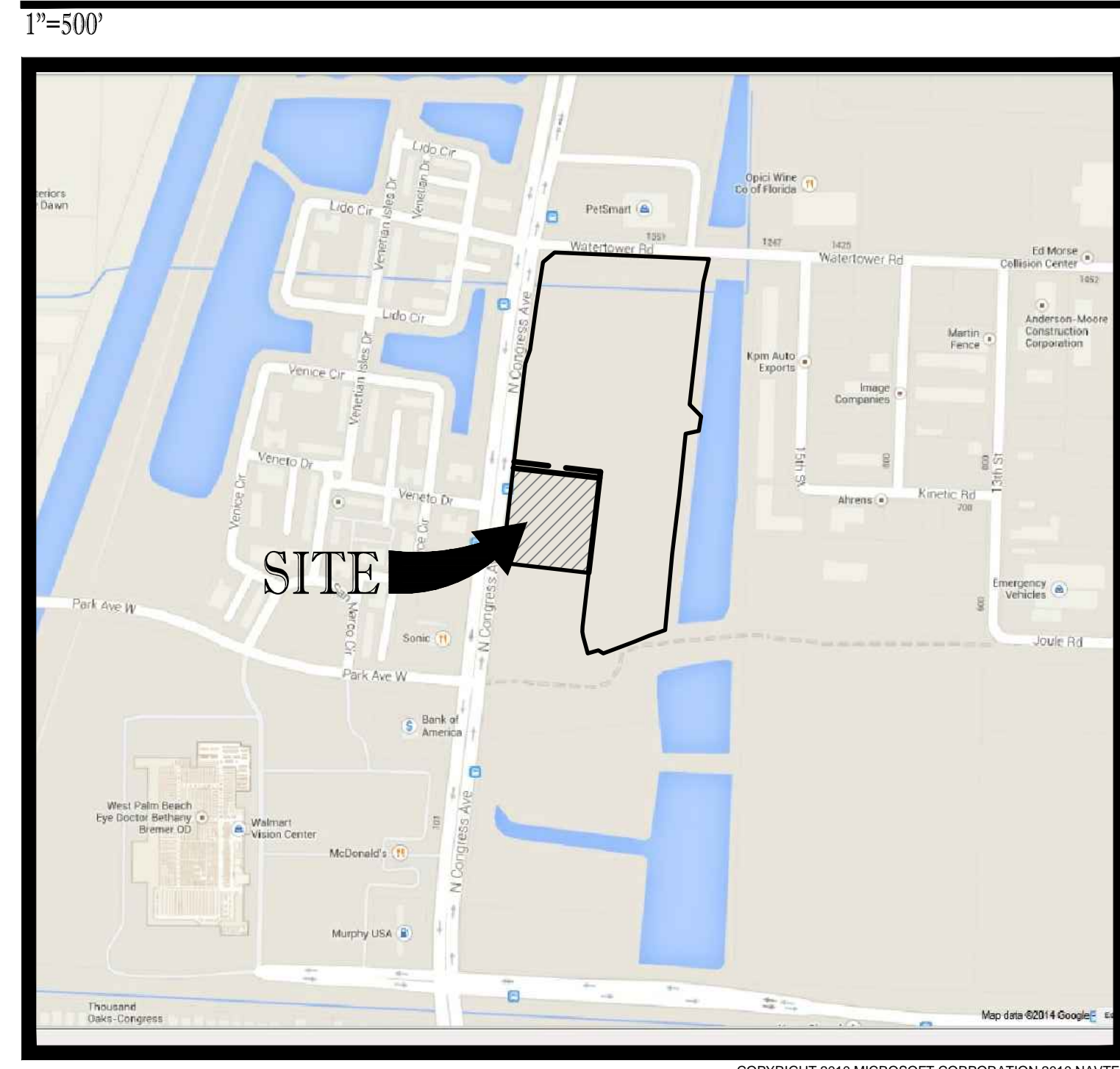
PROPERTY DESCRIPTION

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°48'07" 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

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

Printed on Wednesday, August 27, 2014, 12:19 PM by Brandon Ulmer

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, EMPLOYERS' 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 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.

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, SEQUENCE, 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 SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR.

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

29. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND CITY OF 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 WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

33. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE 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 ANSI/AWWA C110/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 ASTM D2231, AND THE UNI-BELL PLASTIC PIPE ASSOCIATION'S RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE."

b. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/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 UPON APPROVAL OF THE ENGINEER.

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 TELEVISED AND LAMPED AT DEVELOPER'S EXPENSE, PRIOR TO FINAL ACCEPTANCE. OWNER / CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO CERTIFICATION TO ANY AGENCY.

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

WATER DISTRIBUTION AND/OR SANITARY SEWER FORCE MAIN SYSTEM

A. GENERAL:

1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS, FOR THE WATER AND SEWER FORCE MAINS, 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 AND COMPOSITE FIBER REINFORCED POLYMER MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-91 OR LATEST REVISION. THE PIPE SHALL WITHSTAND A WORKING PRESSURE OF 350 PSI. THE JOINTS SHALL BE BELL AND SPIGOT PUSH-ON TYPE UNLESS OTHERWISE NOTED ON THE PLANS.

2. ALL PVC MAINS SHALL BE SERIES 1120, CLASS 150 (DR 18) PRESSURE PIPE CONFORMING TO ANSI/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 ANSI/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 VALVE, NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509-87 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.

a. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2360-20, RESILIENT SEATED GATE VALVES SHALL BE AMERICAN 500/2500 LINE OR CLOW F-6100, CONFORMING TO ANSI/AWWA C509-87, OR

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

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

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

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

7. RETAINER GLANDS SHALL CONFORM TO ANSI/AWWA C111/A21.11-90 OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS

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

9. 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 ANSI/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 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.

4. DUCTILE PIPE:

a. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/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 16-5750 PSI AT 28 DAYS.

6. SERVICE:

a. COVER OVER SERVICE LINES SHALL BE 18" MINIMUM, 36" MAXIMUM BELOW FINISHED GRADE AND 36" OVER 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 FORMED TO THE FULL LENGTH. 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 ANSI/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 ANSI/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 LENGTH OF 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 SANITARY SEWER 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 SANITARY SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN 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 16-5750 PSI AT 28 DAYS.

C. INSTALLATION

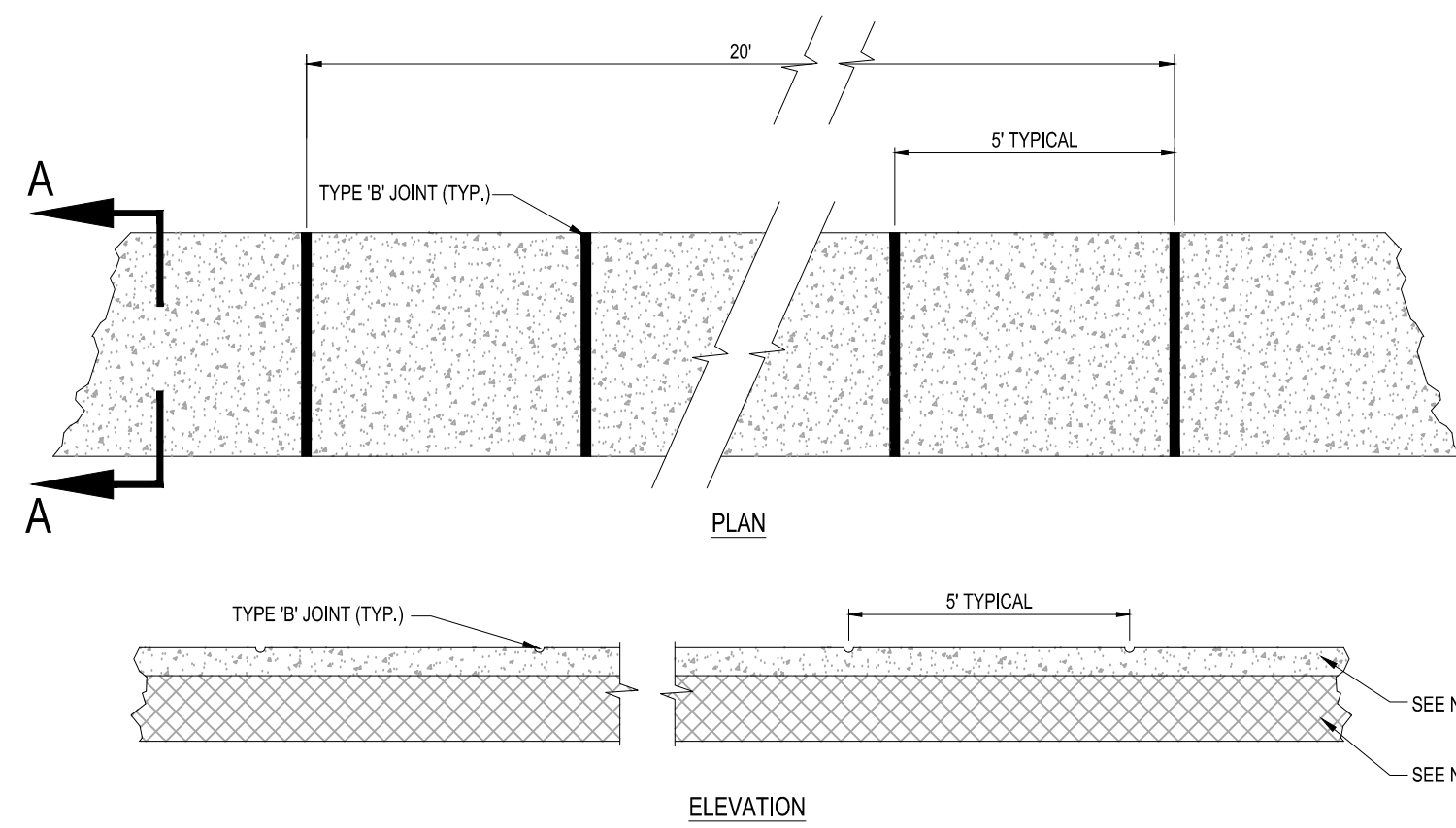
1. PIPE SHALL BE PLACED ON A MINIMUM OF 8" STABLE GRANULAR MATERIAL FREE OF ORGANIC MATTER AND OTHER FOREIGN FORTIERS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.

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.

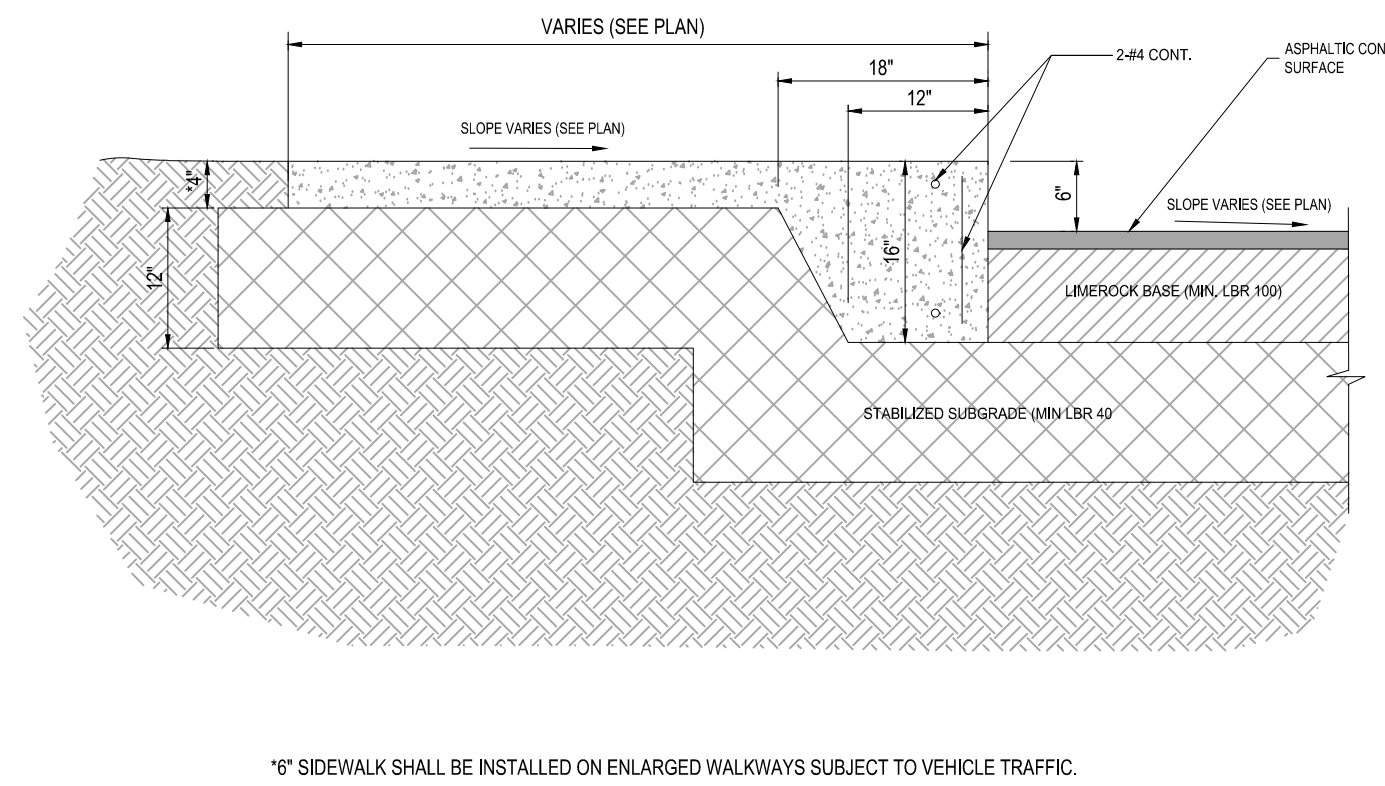
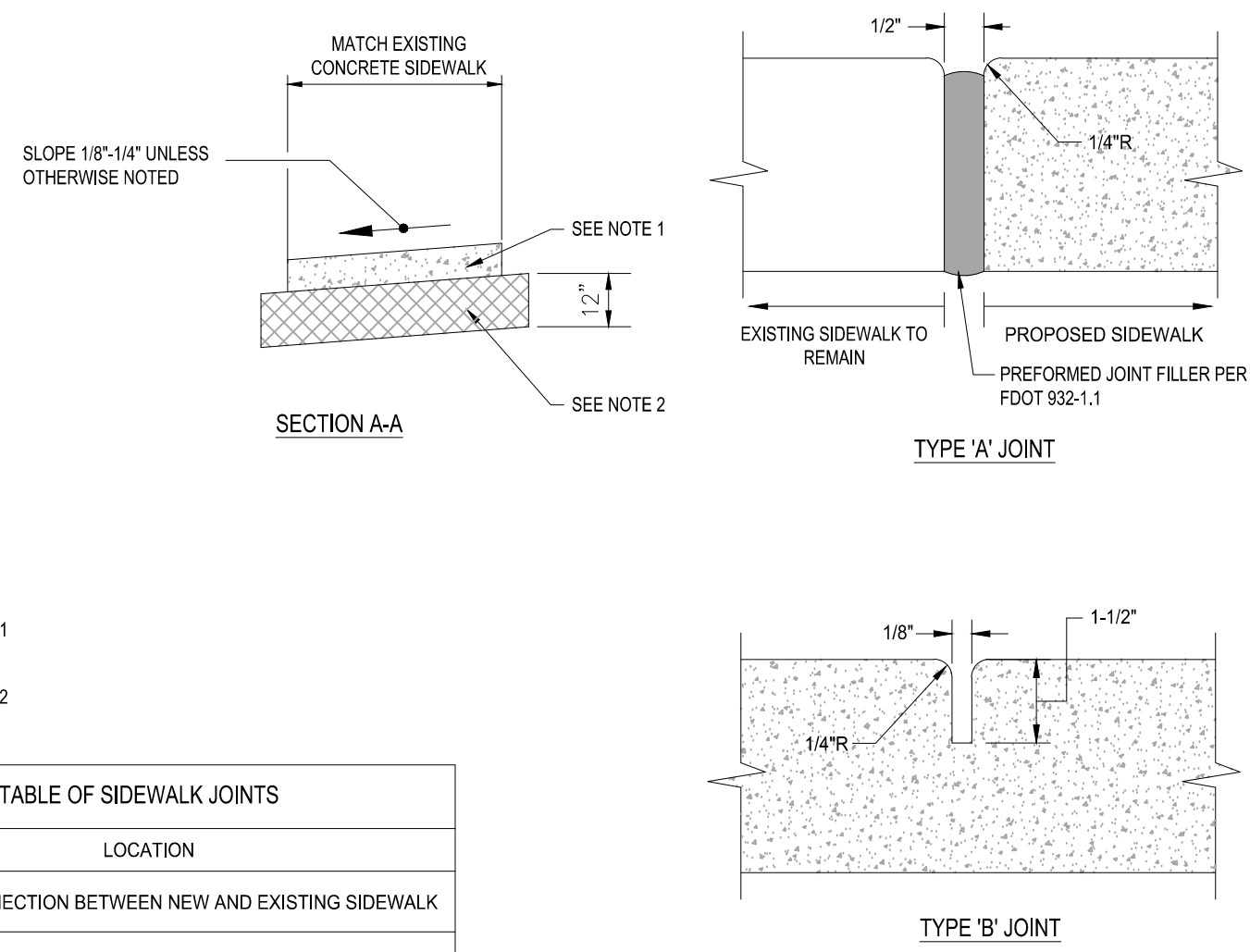
4. THE CONTRACTOR SHALL NOTIFY TOWN OF LAKE PARK ENGINEERING DEPARTMENT AND THE ENGINEER OF RECORD AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

PAVING:



- 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

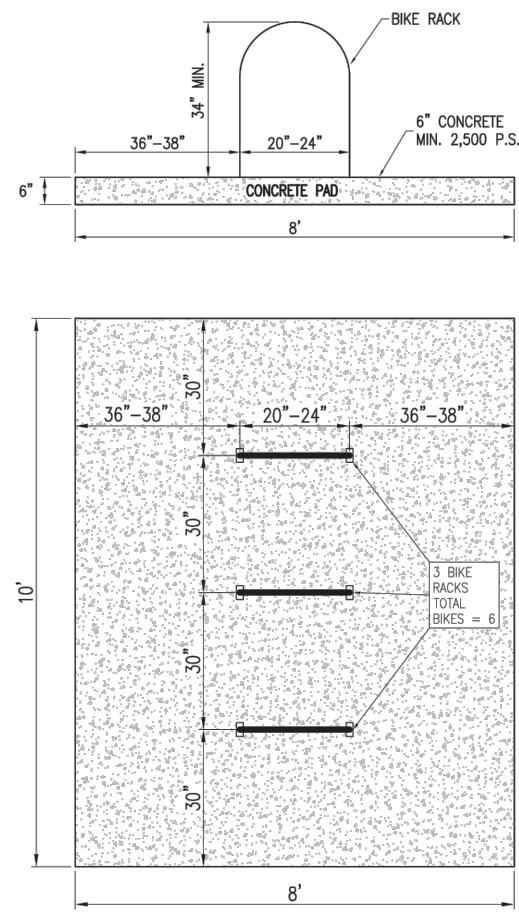
SCALE: NONE

2 THICKENED EDGE SIDEWALK DETAIL

SCALE: NONE

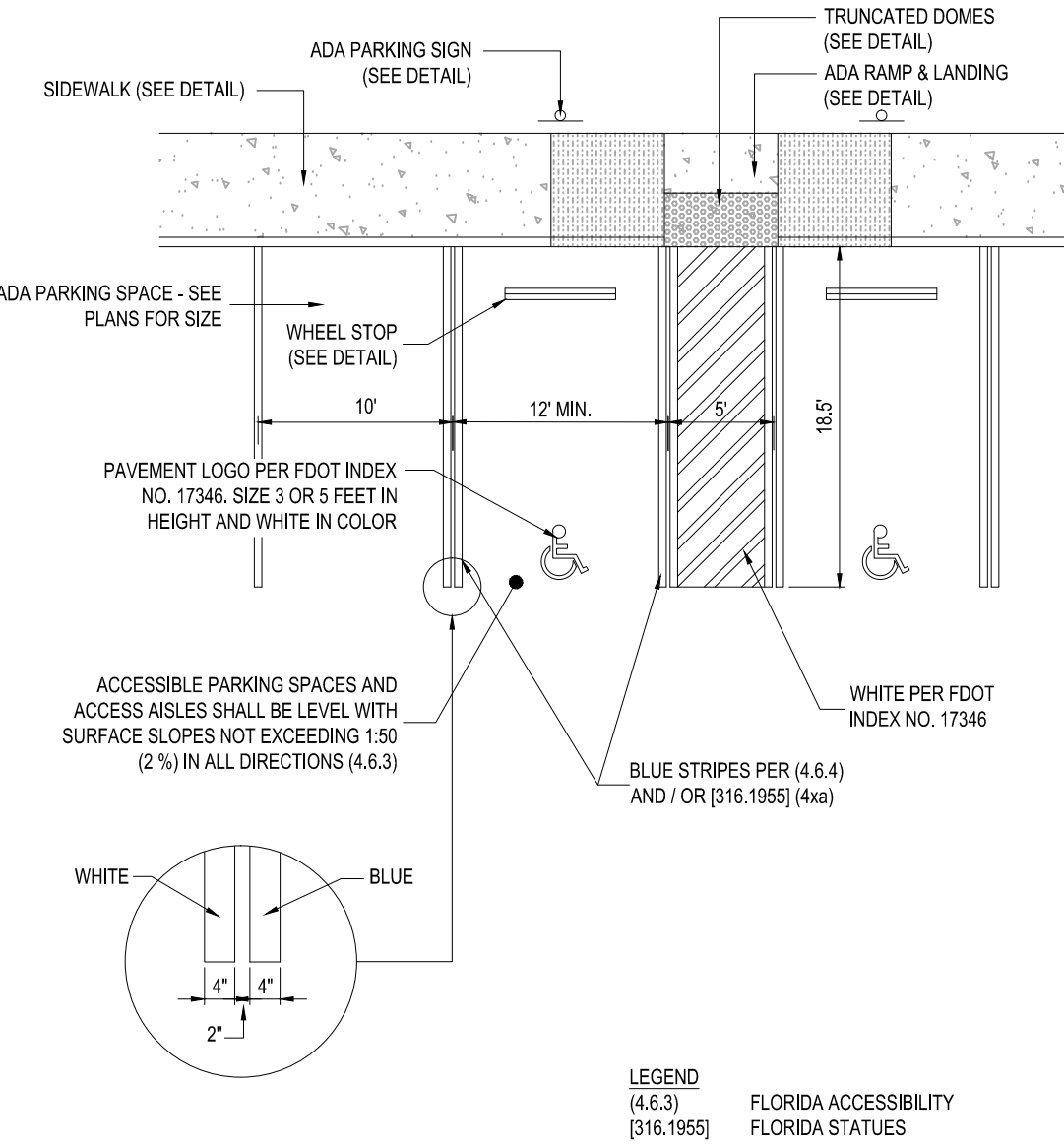
3 TYPICAL CONCRETE SIDEWALK SECTION

SCALE: NONE

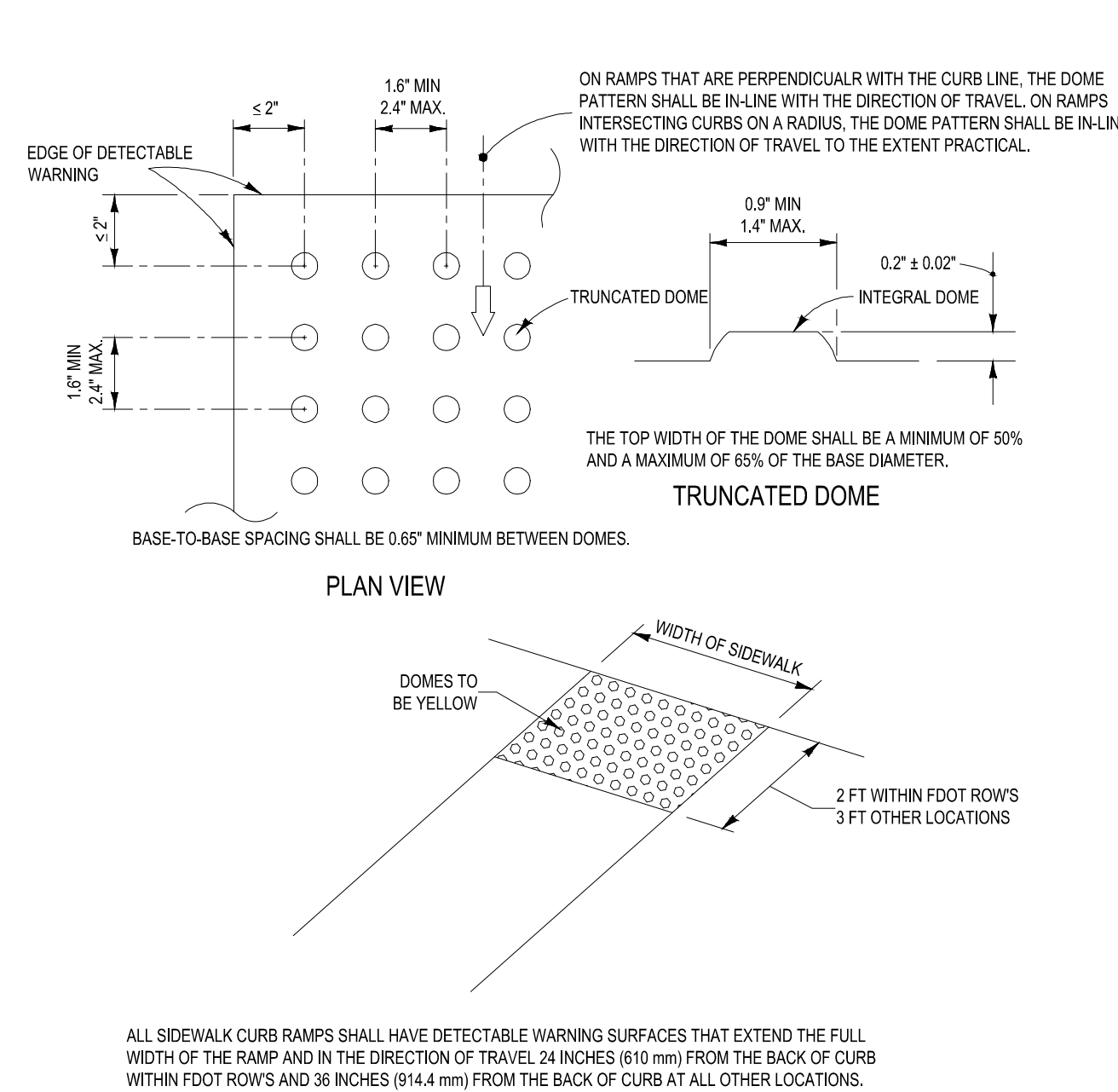


- NOTES:
- ACCEPTABLE MANUFACTURERS ARE EITHER 1) AMERICAN BICYCLE SECURITY COMPANY OR 2) DERO BIKE RACKS. ALL MATERIALS, FINISHES, INSTALLATION AND ANCHORING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
 - BICYCLE RACK MANUFACTURER MAY BE SUBSTITUTED WITH APPROVAL OF ENGINEER OF RECORD BUT HOOP OR INVERTED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

LANDSCAPE FORMS -
CHASE PARK
COLOR: METALIC BRONZE;
BENCH WITH CENTER
ARMS;

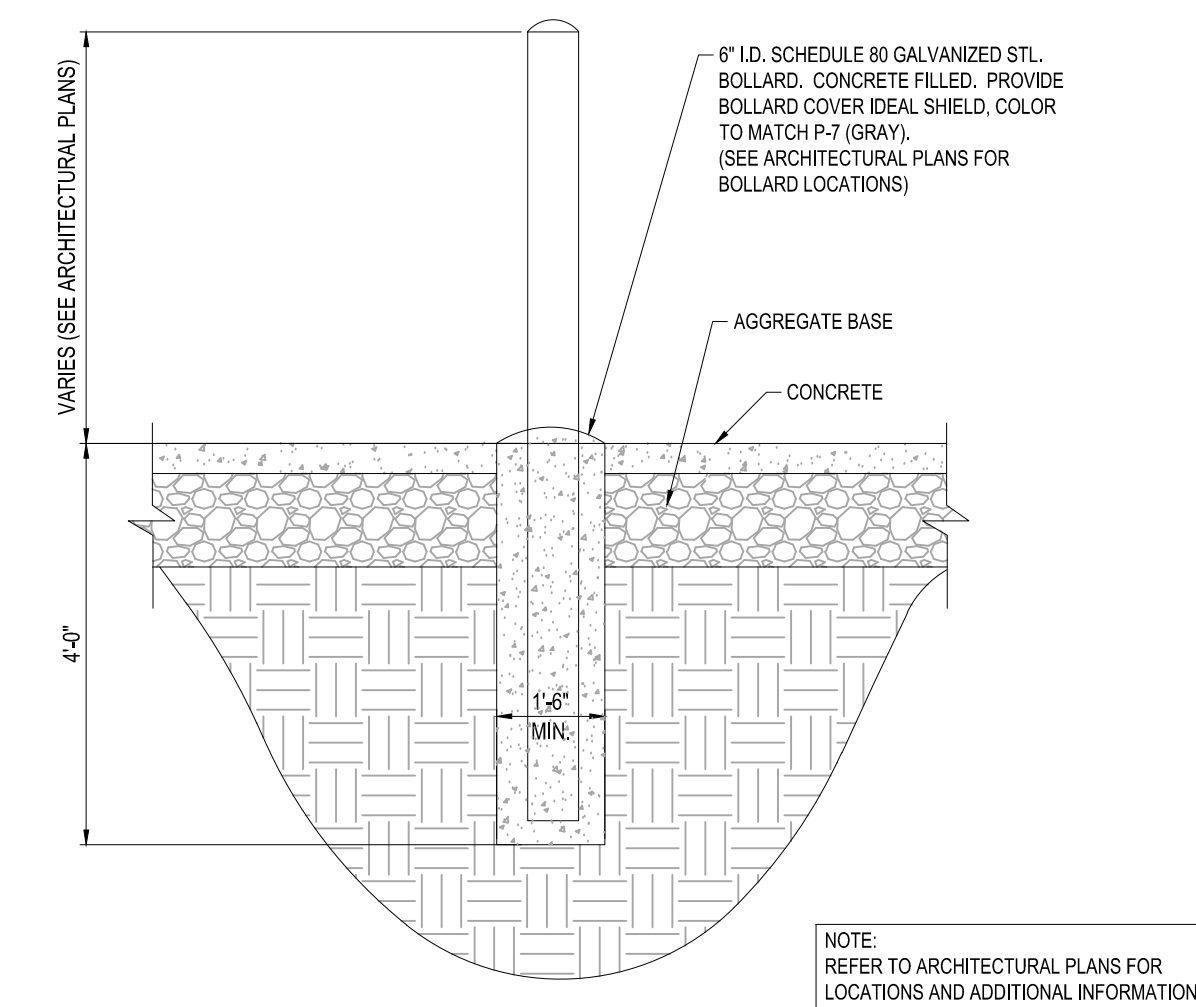


LEGEND
(4.6.3) FLORIDA ACCESSIBILITY
(316.1955) FLORIDA STATUTES



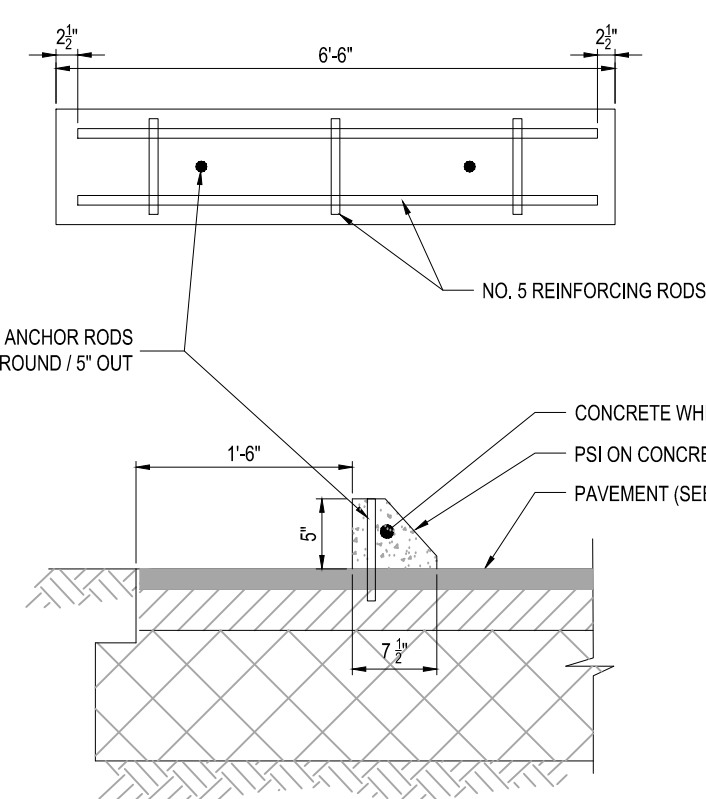
6 ADA RAMP DETECTABLE WARNING DETAIL

SCALE: NONE



7 TYPICAL EXTERIOR BOLLARD DETAIL

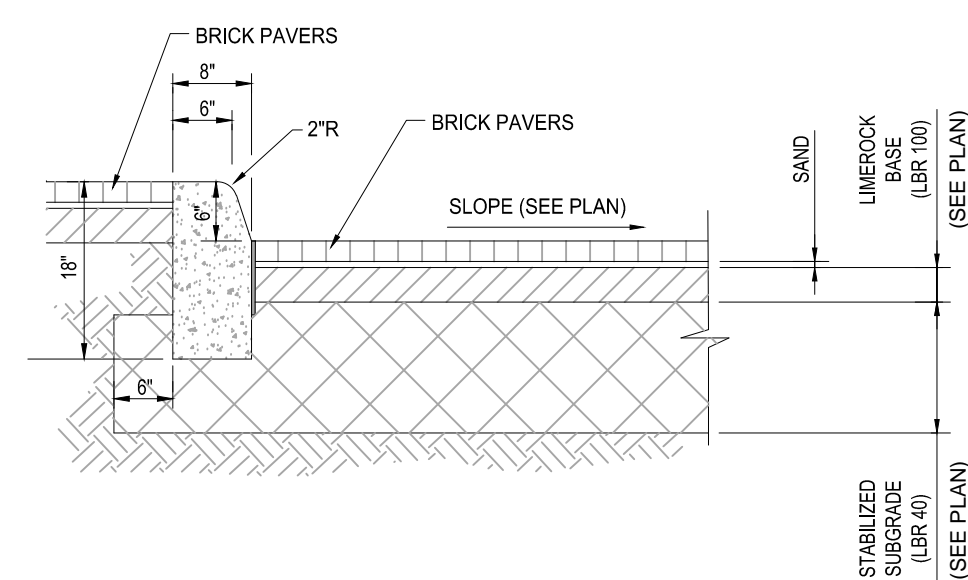
SCALE: NONE



- 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.

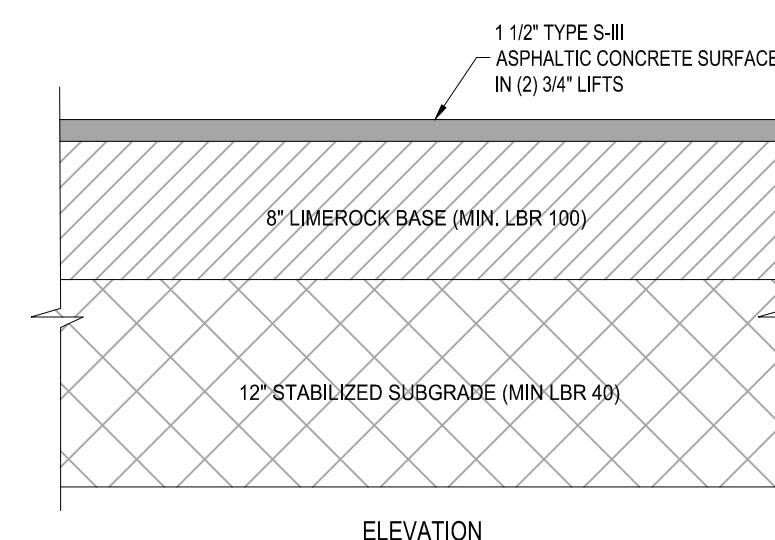
8 CONCRETE WHEEL STOP

SCALE: NONE



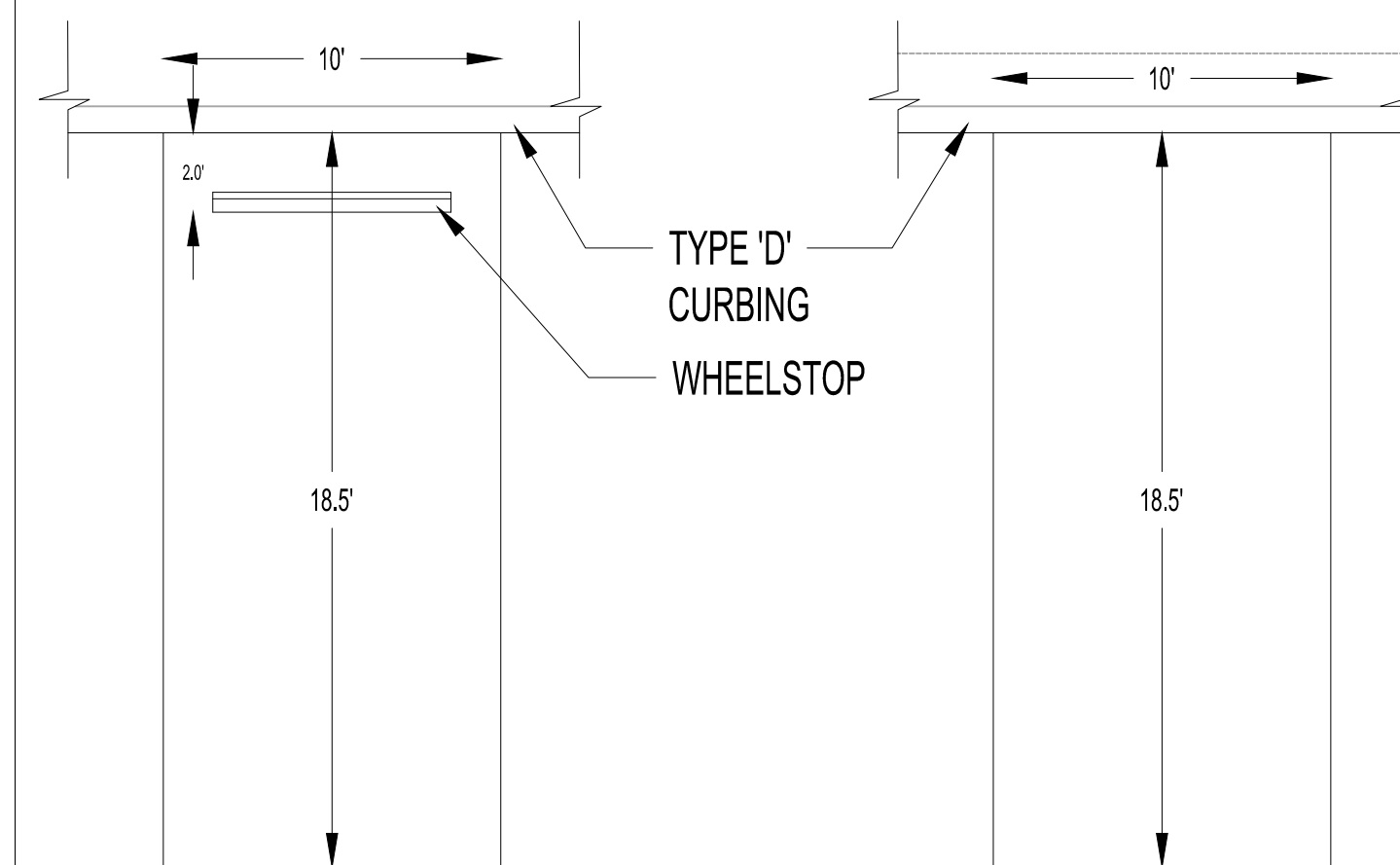
9 CONCRETE CURB (TYPE 'D') DETAIL

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 100
FORT LAUDERDALE, FLORIDA 33304

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

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CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - SITE DETAILS

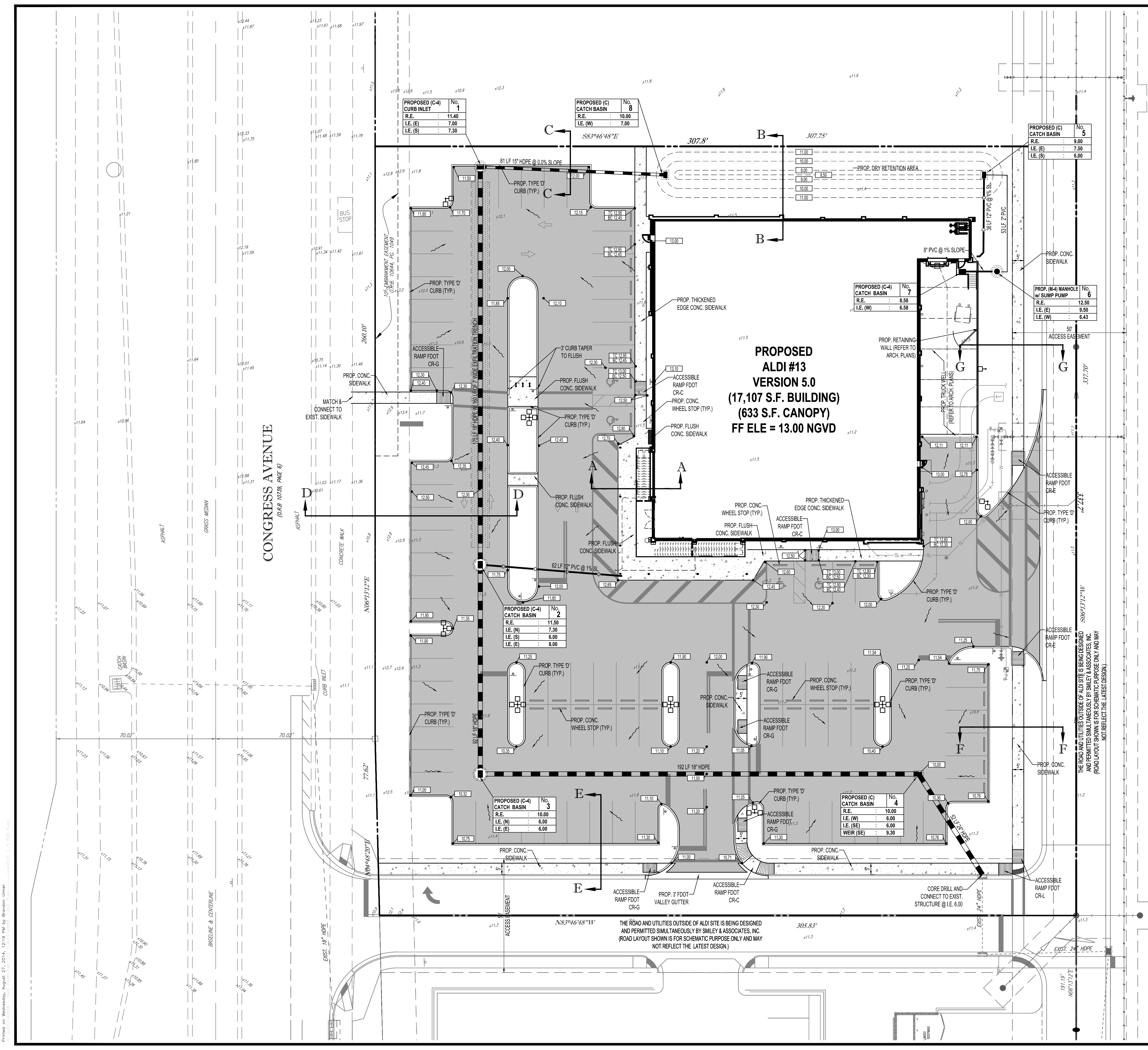
PROJECT:
**ALDI #13
CONGRESS BUSINESS
PARK P.U.D.**

FOR
ALDI
CITY OF LAKE PARK
FLORIDA

THOMAS
ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
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BRANDON ULMER
PROFESSIONAL ENGINEER
0908/2014
FLORIDA LICENSE No. 683346
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
SITE DETAILS
SHEET NUMBER:
C-4



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

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	+
⊙	SANITARY MANHOLE	⊙
⊕	CATCH BASIN	⊕
∩	WATER VALVE	∩
Z	BACKFLOW PREVENTER	Z
⊠	WATER METER	⊠
○	CLEAN OUT	○
XXXX	GRADE SPOT SHOT	XXXX

HATCH LEGEND

	PROPOSED REGULAR 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
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 CAD I.D.: F140008 - PGD PLAN

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

FOR

CITY OF LAKE PARK FLORIDA

THOMAS ENGINEERING GROUP

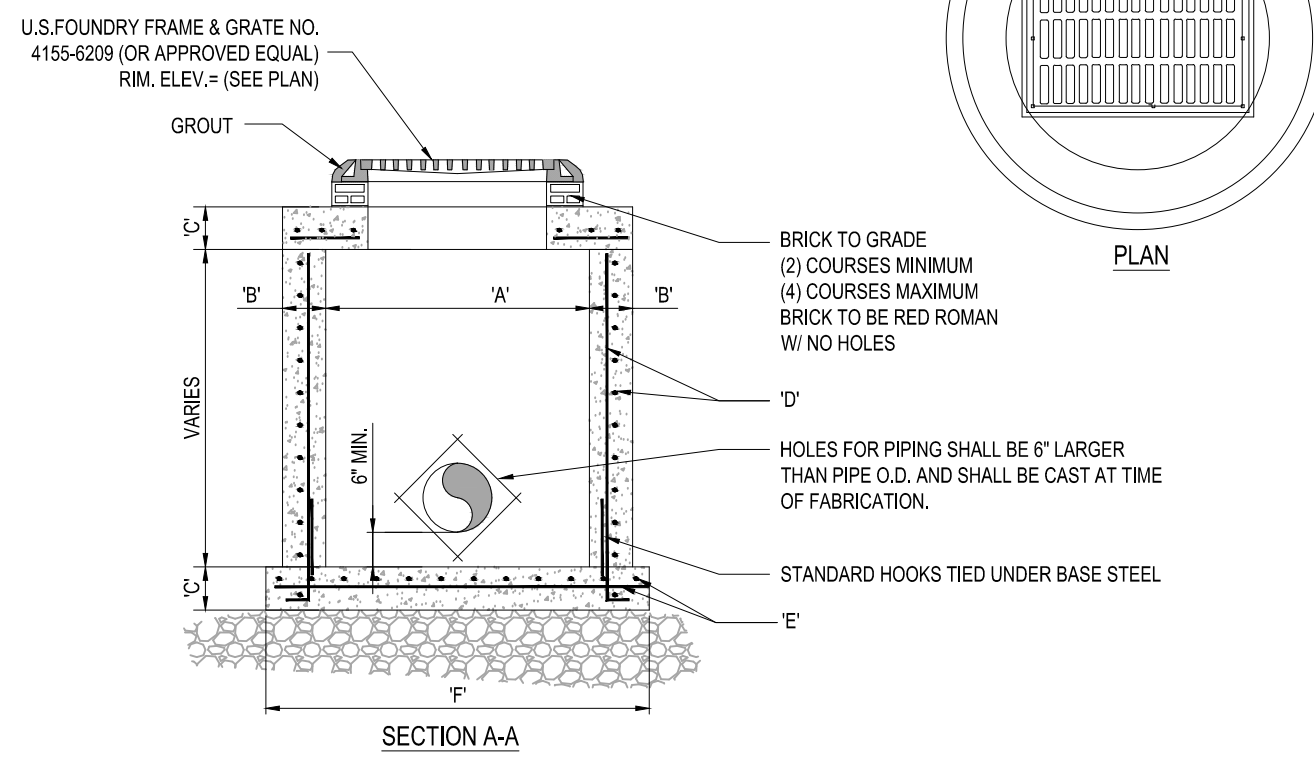
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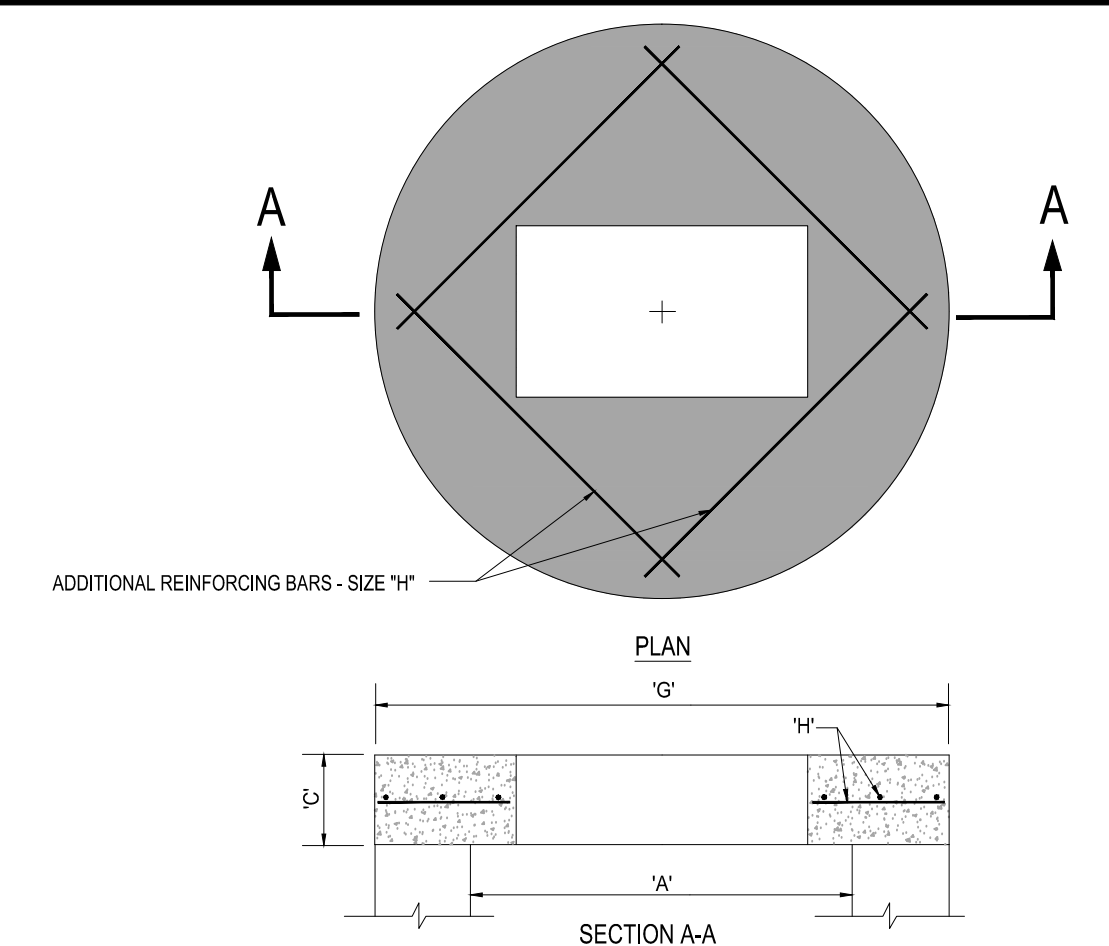
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 09082014
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 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

PAVING, GRADING, & DRAINAGE PLAN

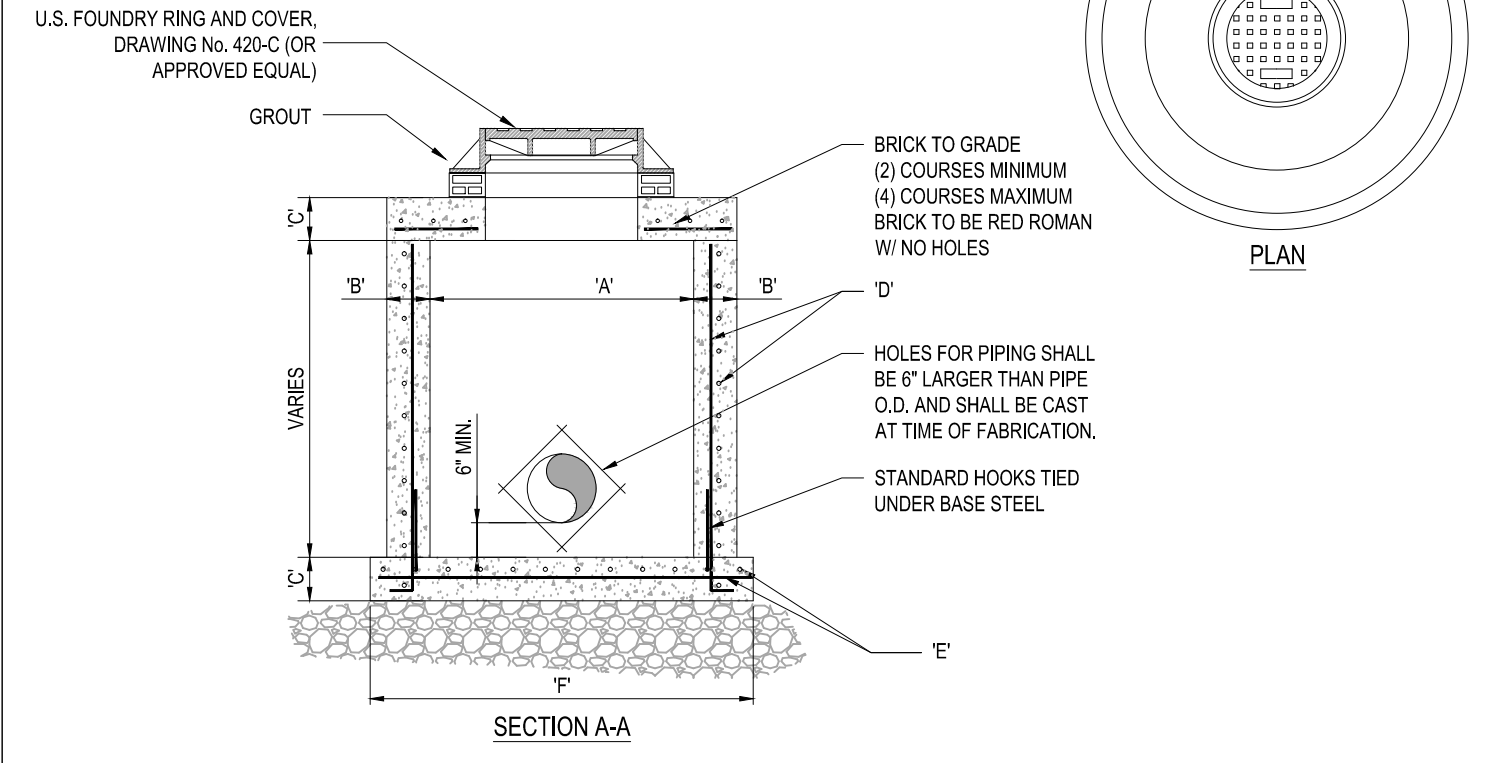
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C-5



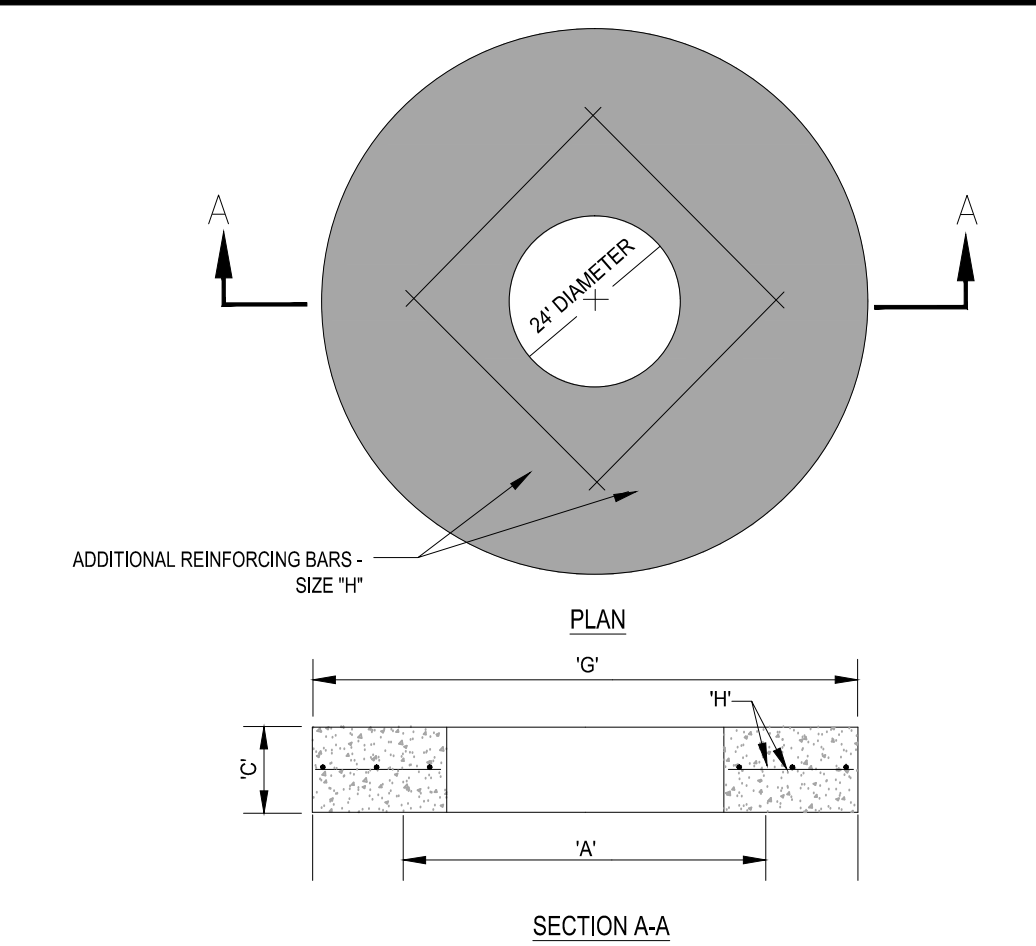
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"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



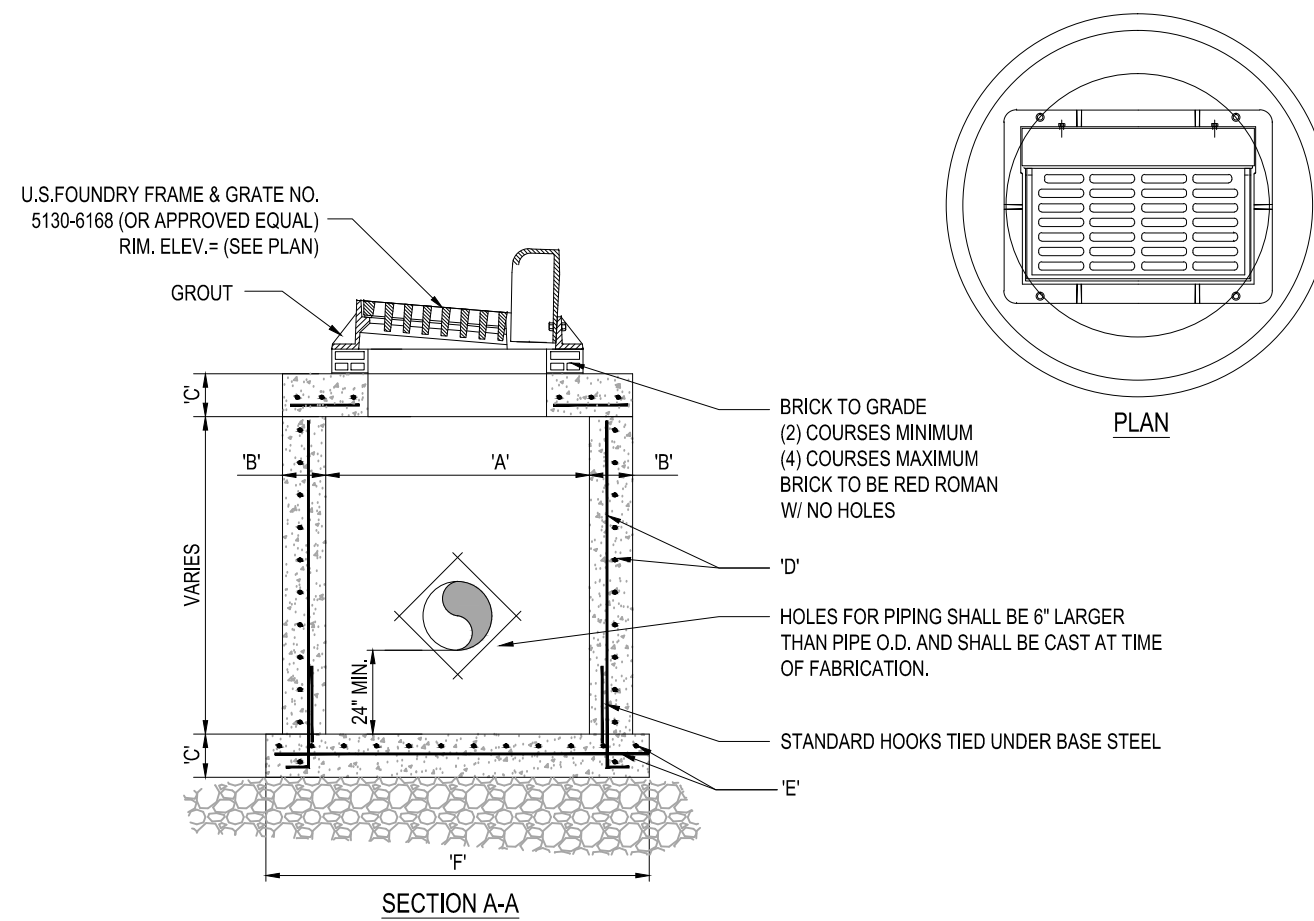
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M-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
M-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" C.C.E.W.
M-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
M-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
M-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

1 PRECAST CIRCULAR CATCH BASIN
SCALE: NONE

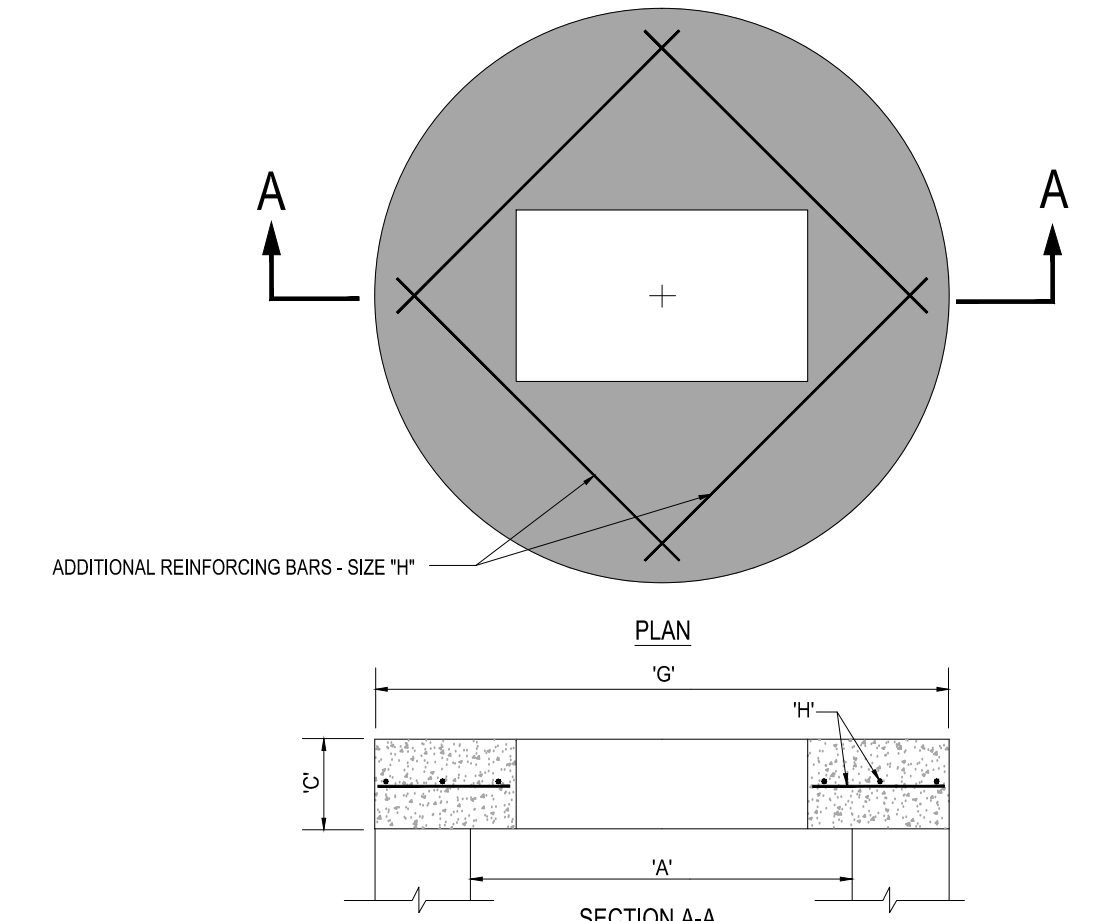
2 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

3 PRECAST CIRCULAR DRAINAGE MANHOLE
SCALE: NONE

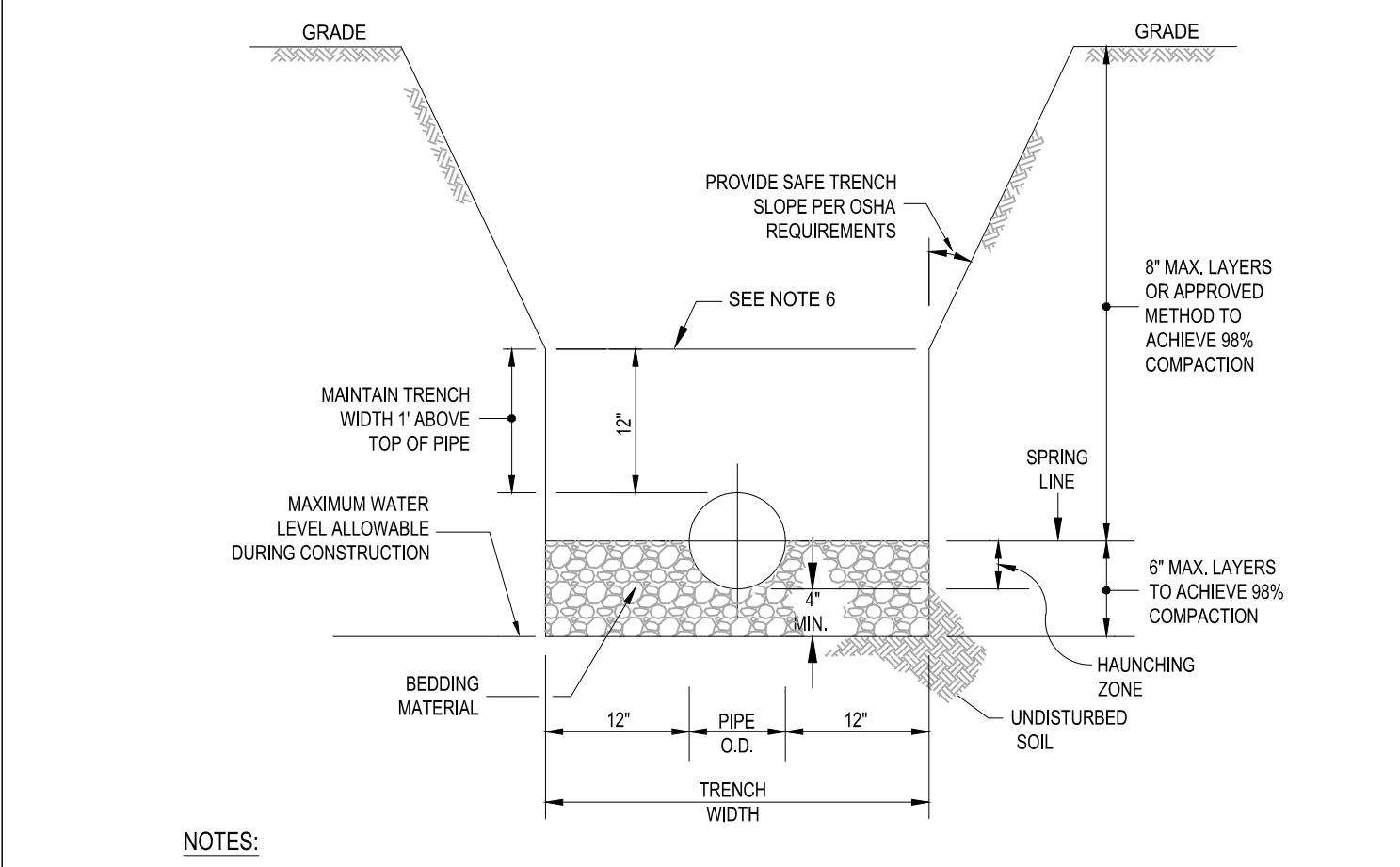
4 PRECAST CONCRETE-TOP SLAB FOR DRAINAGE MANHOLES
SCALE: NONE



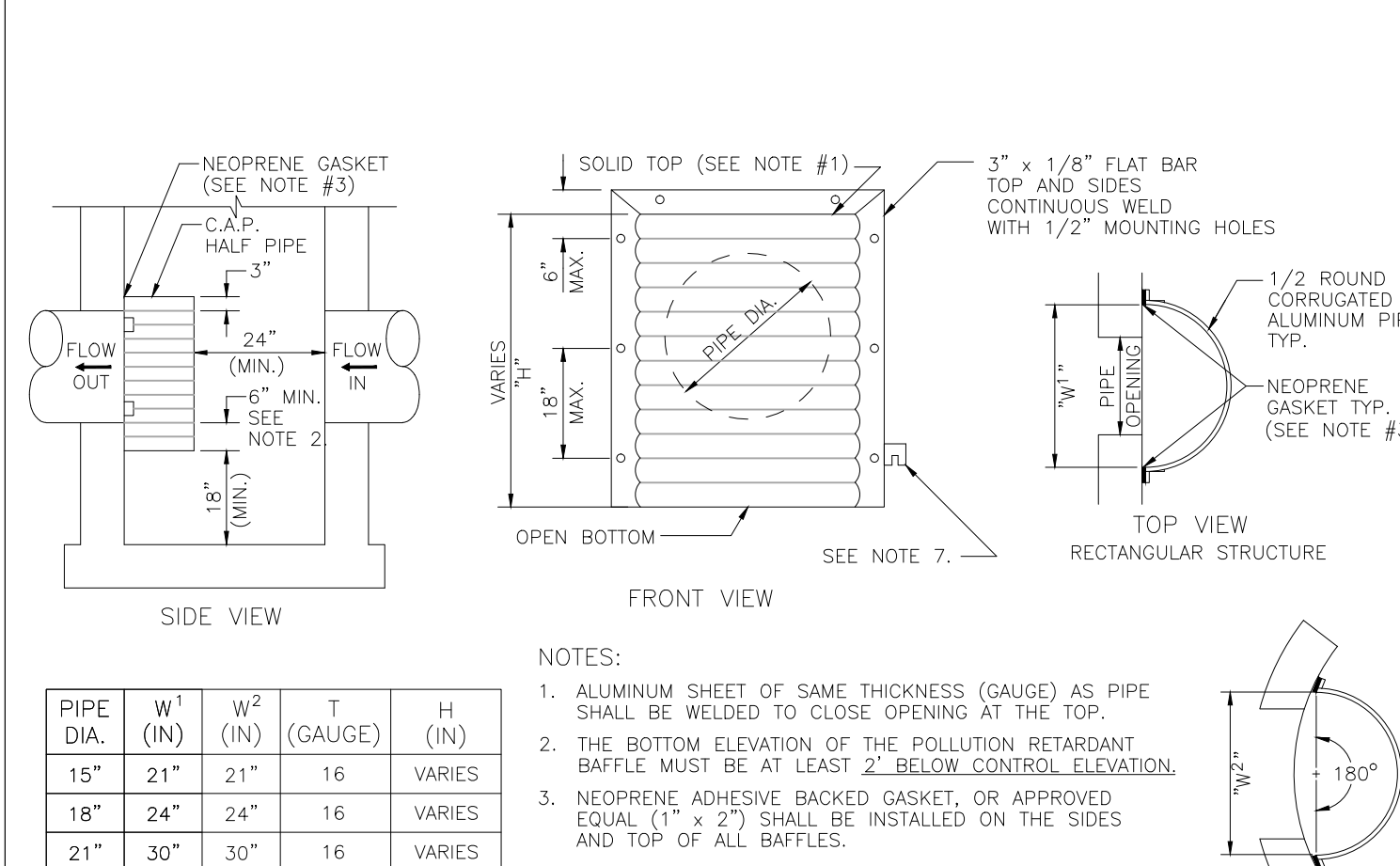
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	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 @ 8" 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-99.
 - 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.



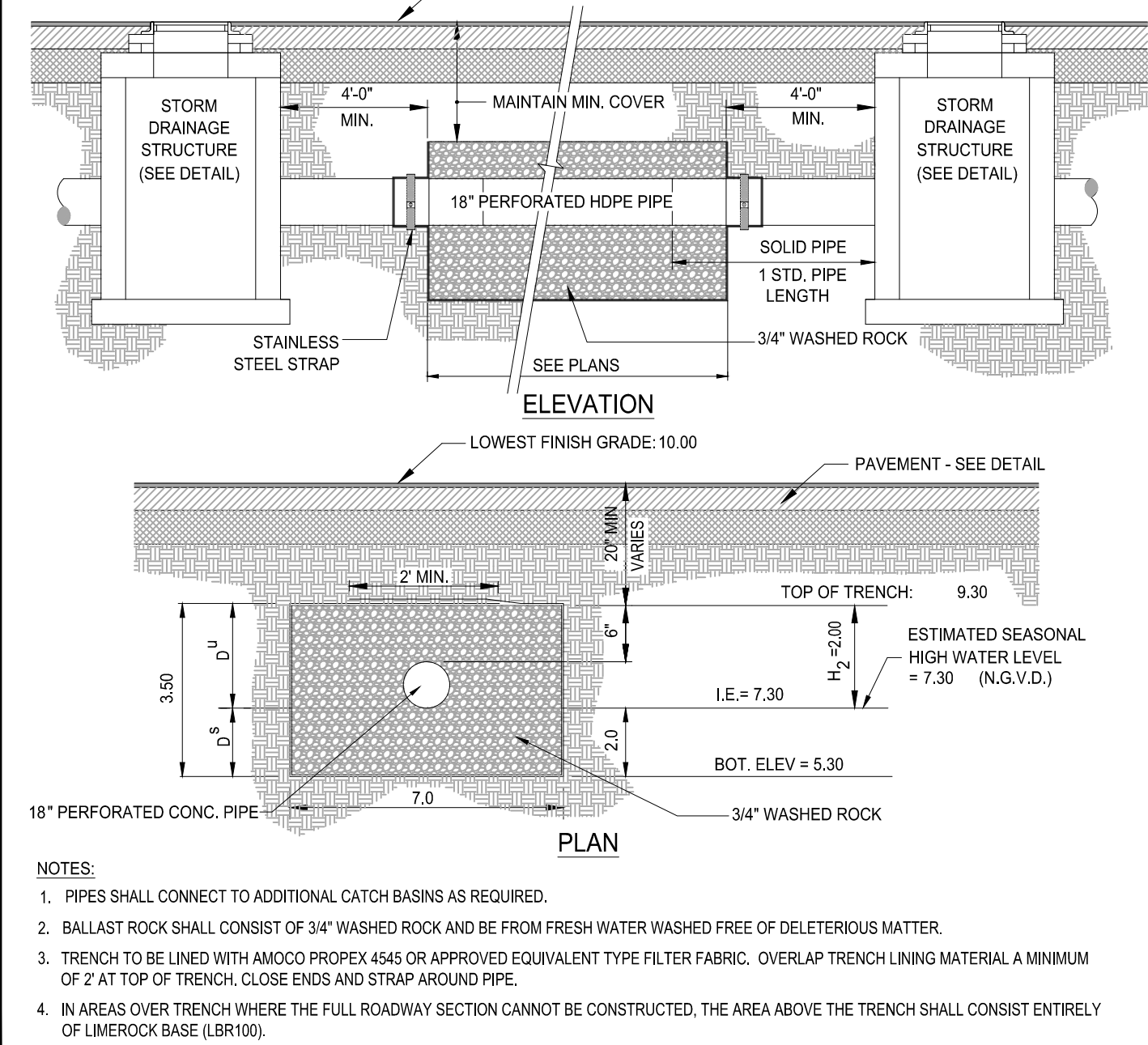
- NOTES:**
- ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
 - THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 2" BELOW CONTROL ELEVATION.
 - NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
 - POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
 - ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
 - FIBERGLASS BAFFLES ARE NOT PERMITTED.
 - MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

5 PRECAST CIRCULAR CURB INLET
SCALE: NONE

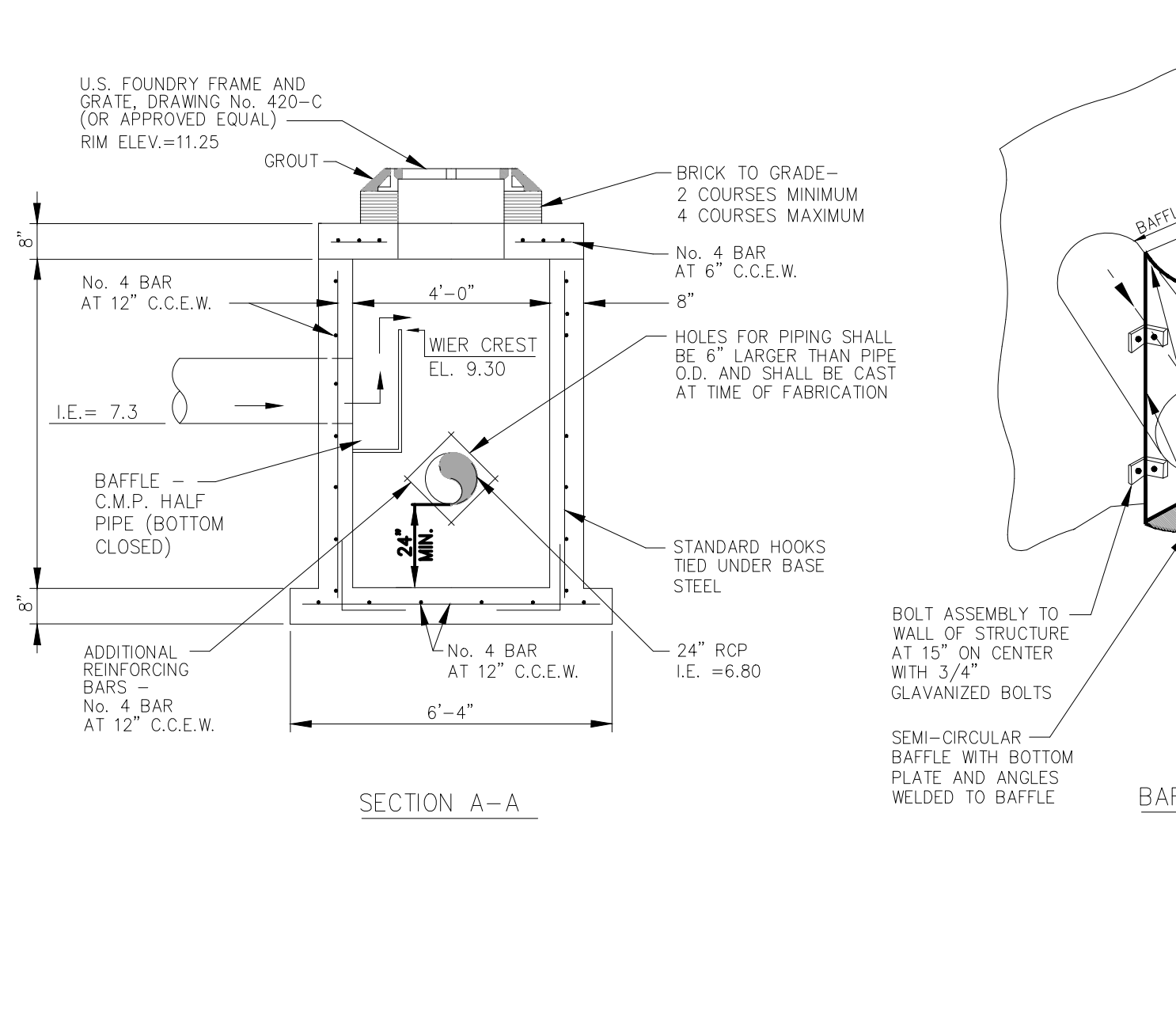
6 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

7 TRENCH DETAIL
SCALE:

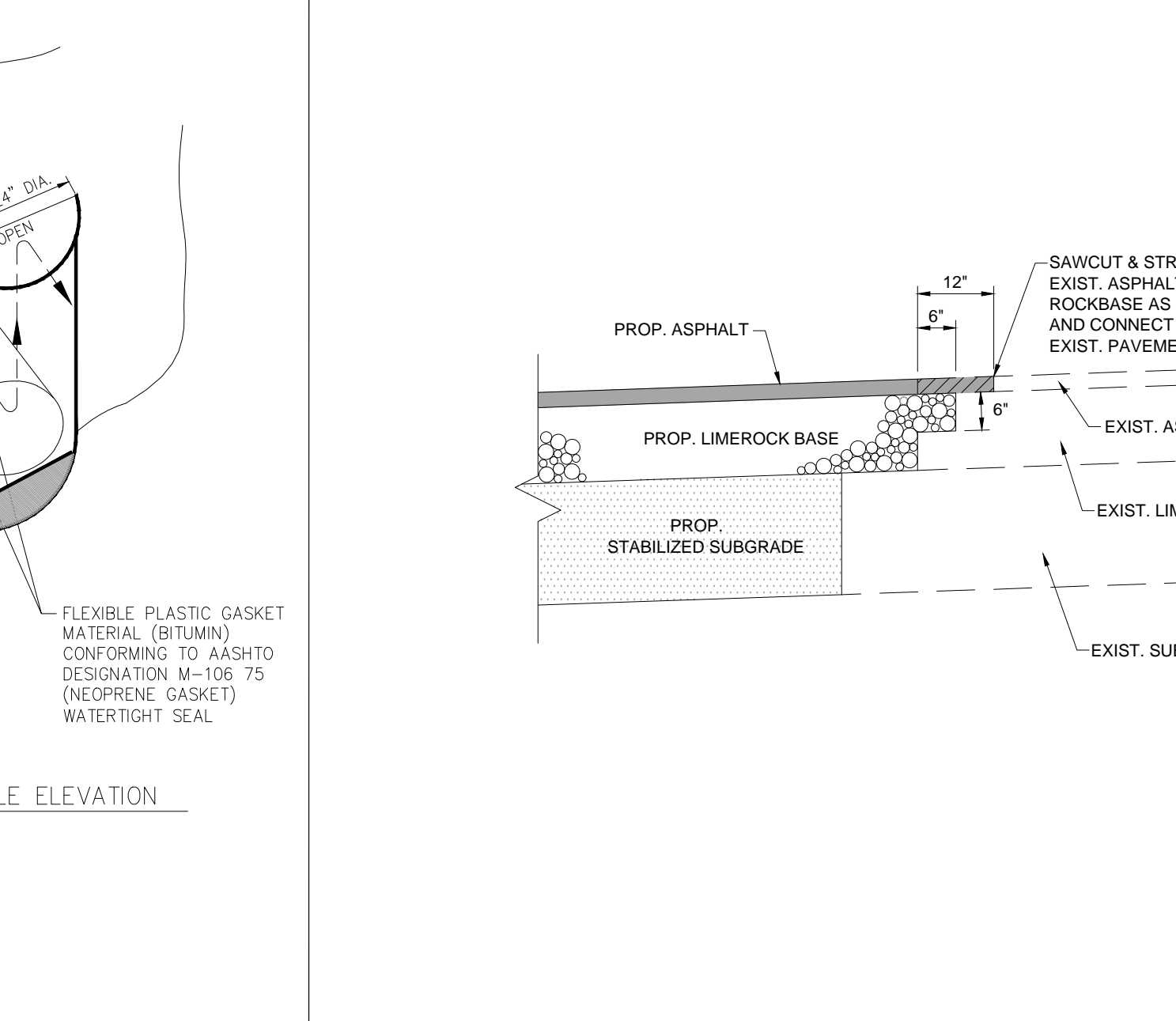
8 POLLUTION RETARDENT BAFFLE DETAIL
SCALE: NONE



9 EXFILTRATION TRENCH
SCALE: NONE



10 INVERTED DEBRIS BAFFLE (CONTROL STRUCTURE)
SCALE: NONE



11 SAWCUT/MATCH ASPHALT PAVEMENT DETAIL
SCALE: NONE

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CHECKED BY: BU
DATE: 02/14/14
CAD I.D.: F140008 - PGD DETAILS

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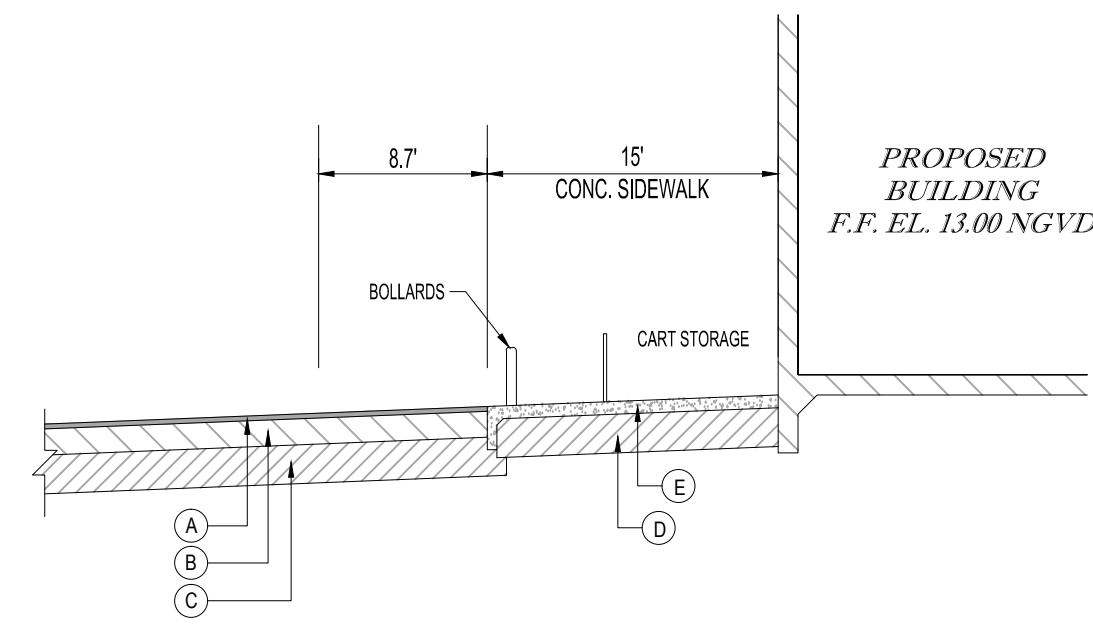
FOR
ALDI
CITY OF LAKE PARK
FLORIDA

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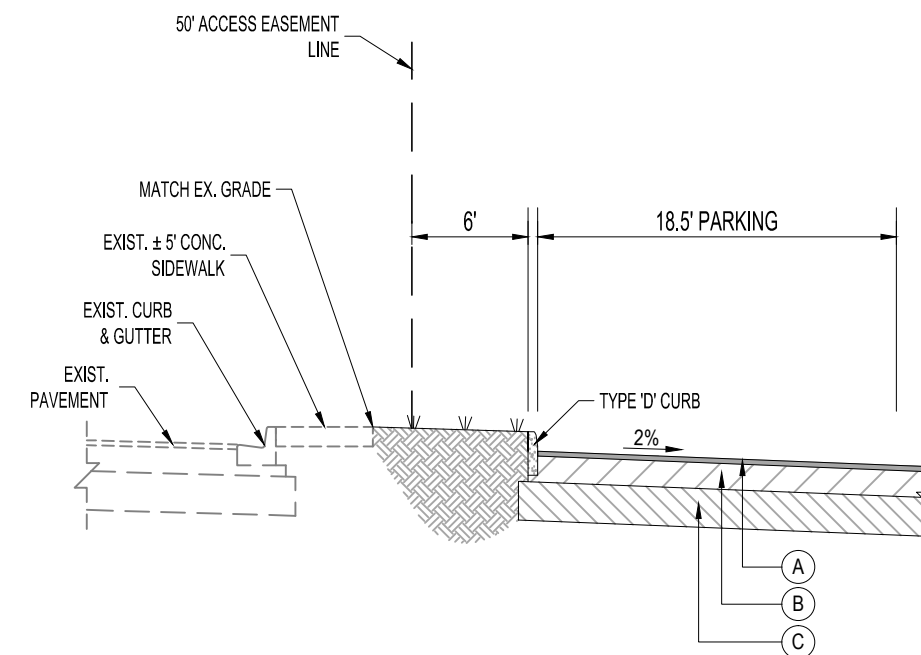
BRANDON ULMER
PROFESSIONAL ENGINEER
0908/2014
FLORIDA LICENSE NO. 68336
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
DRAINAGE DETAILS
SHEET NUMBER:
C-6

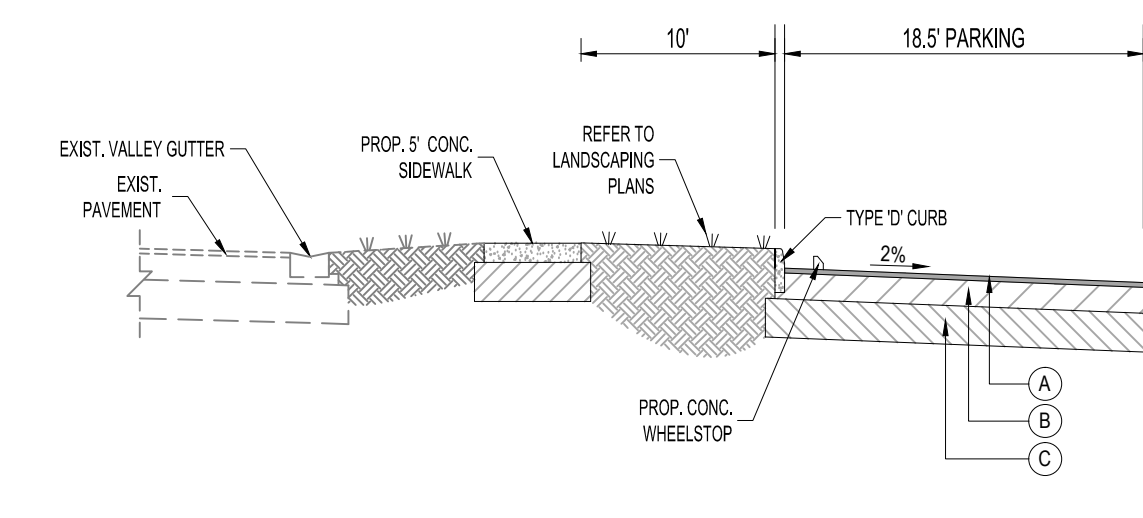
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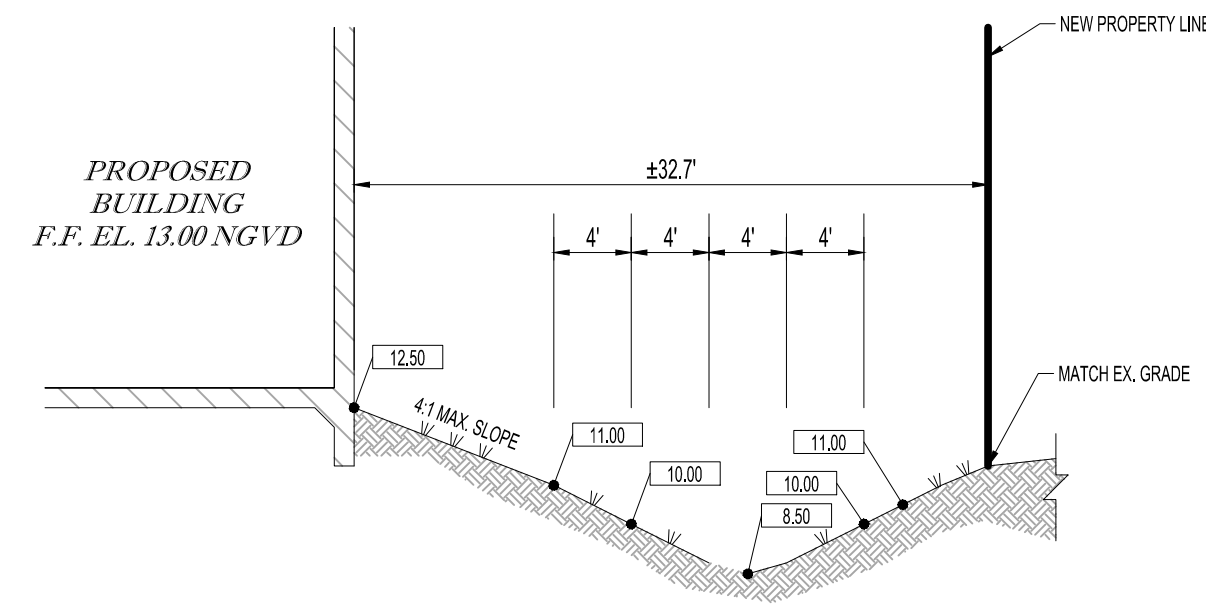
SECTION A-A
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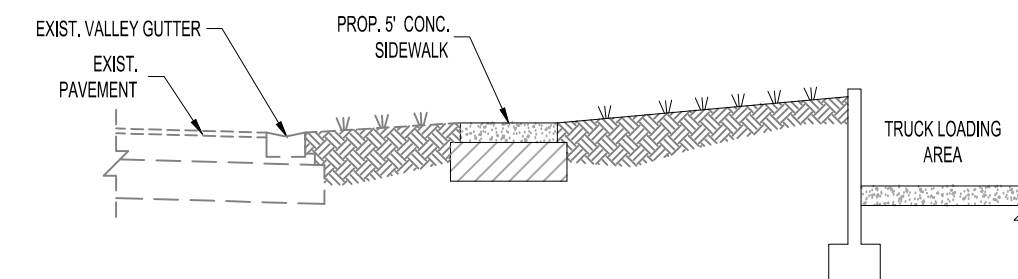
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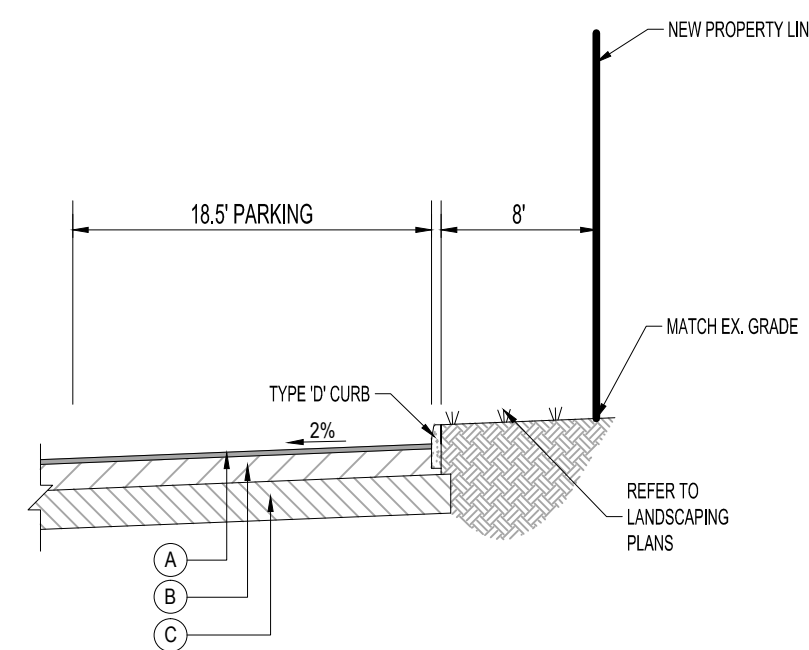
SECTION F-F
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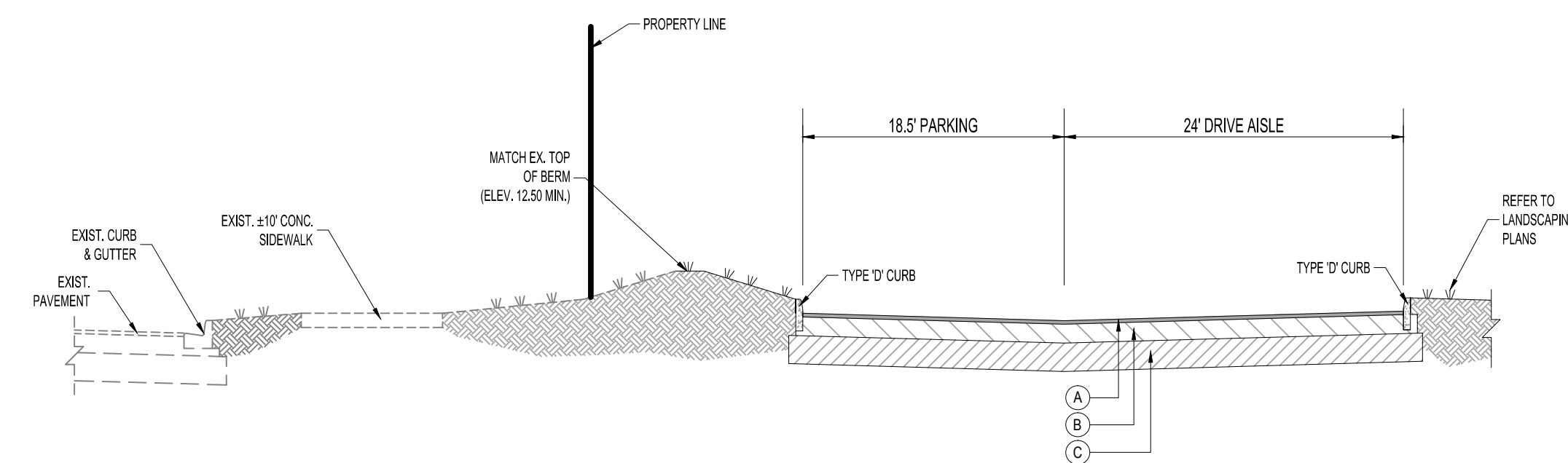
SECTION B-B
NOT TO SCALE



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.

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CAD I.D.: F140008 - CROSS SECTIONS

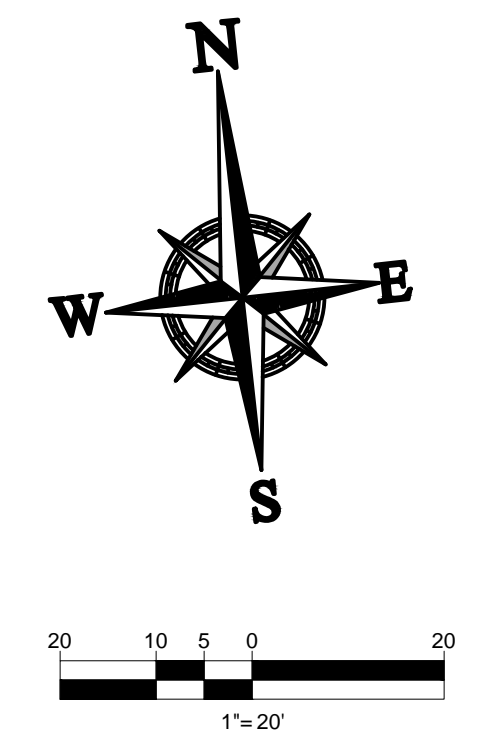
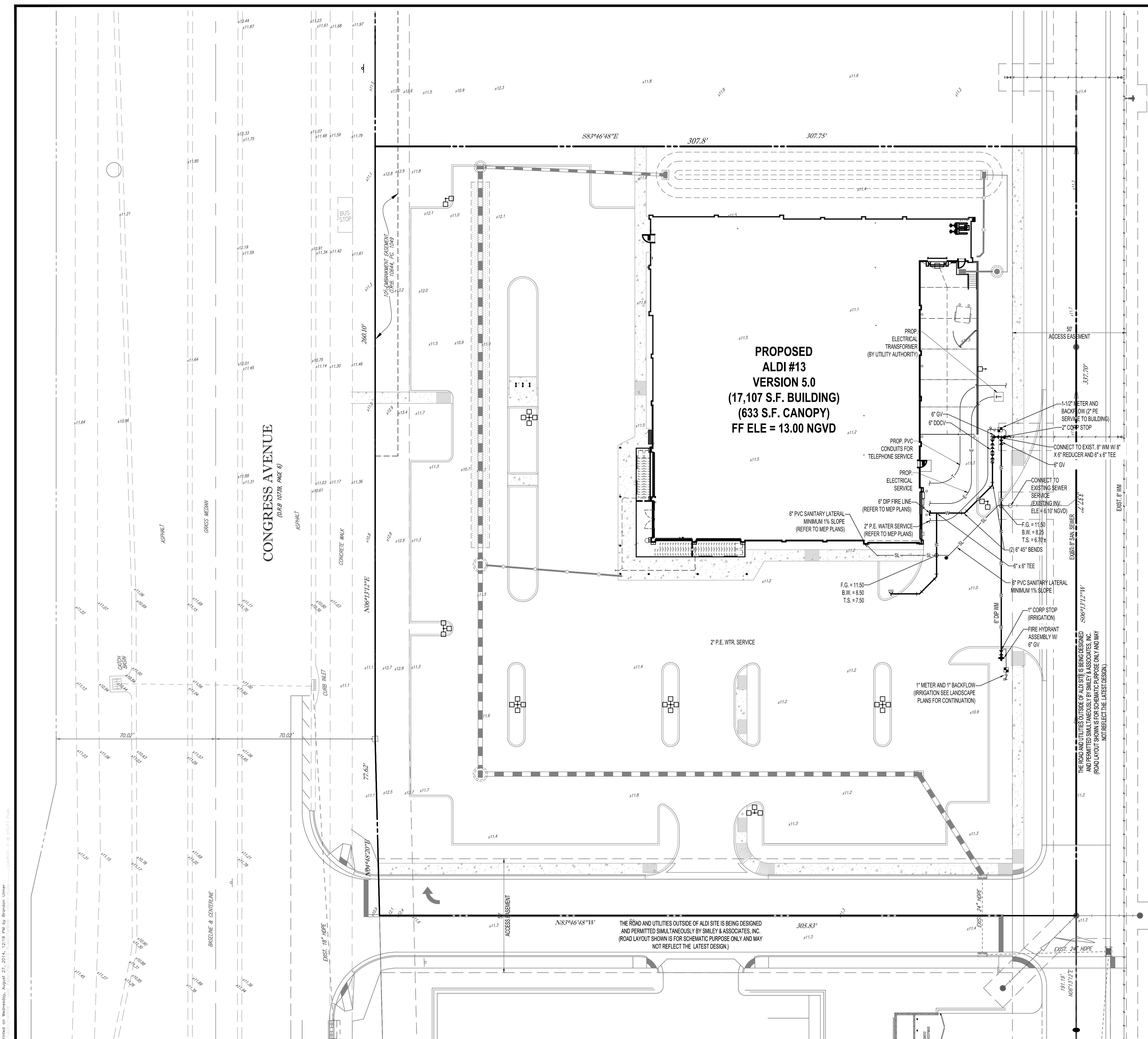
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PARK P.U.D.**
FOR

CITY OF LAKE PARK
FLORIDA

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BRANDON ULMER
PROFESSIONAL ENGINEER
08082014
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FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
CROSS SECTIONS
SHEET NUMBER:
C-7



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PROJECT No.: F140008
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 DATE: 02/14/14
 CAD I.D.: F140008 - UTILITY PLAN

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FOR

CITY OF LAKE PARK FLORIDA

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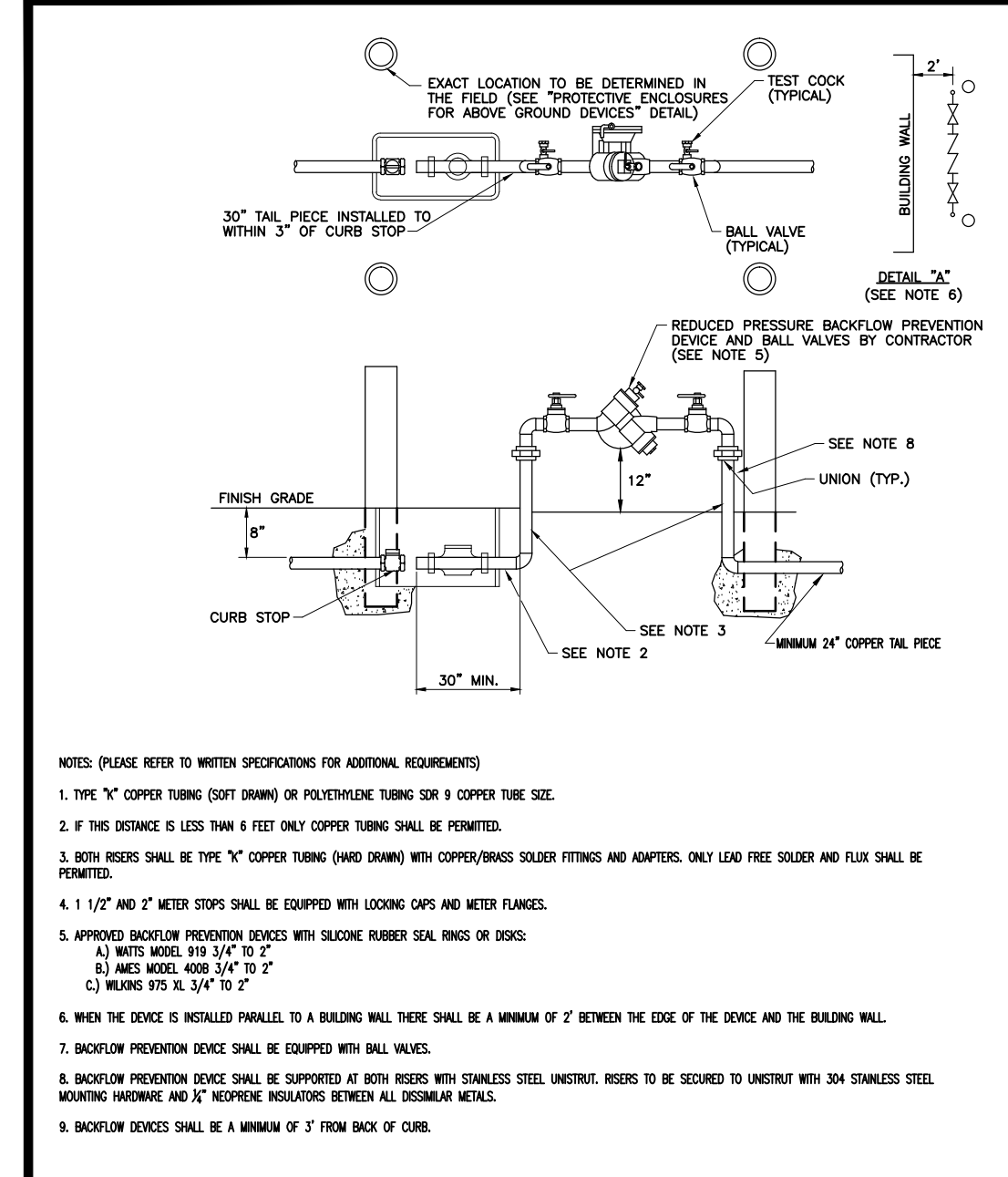
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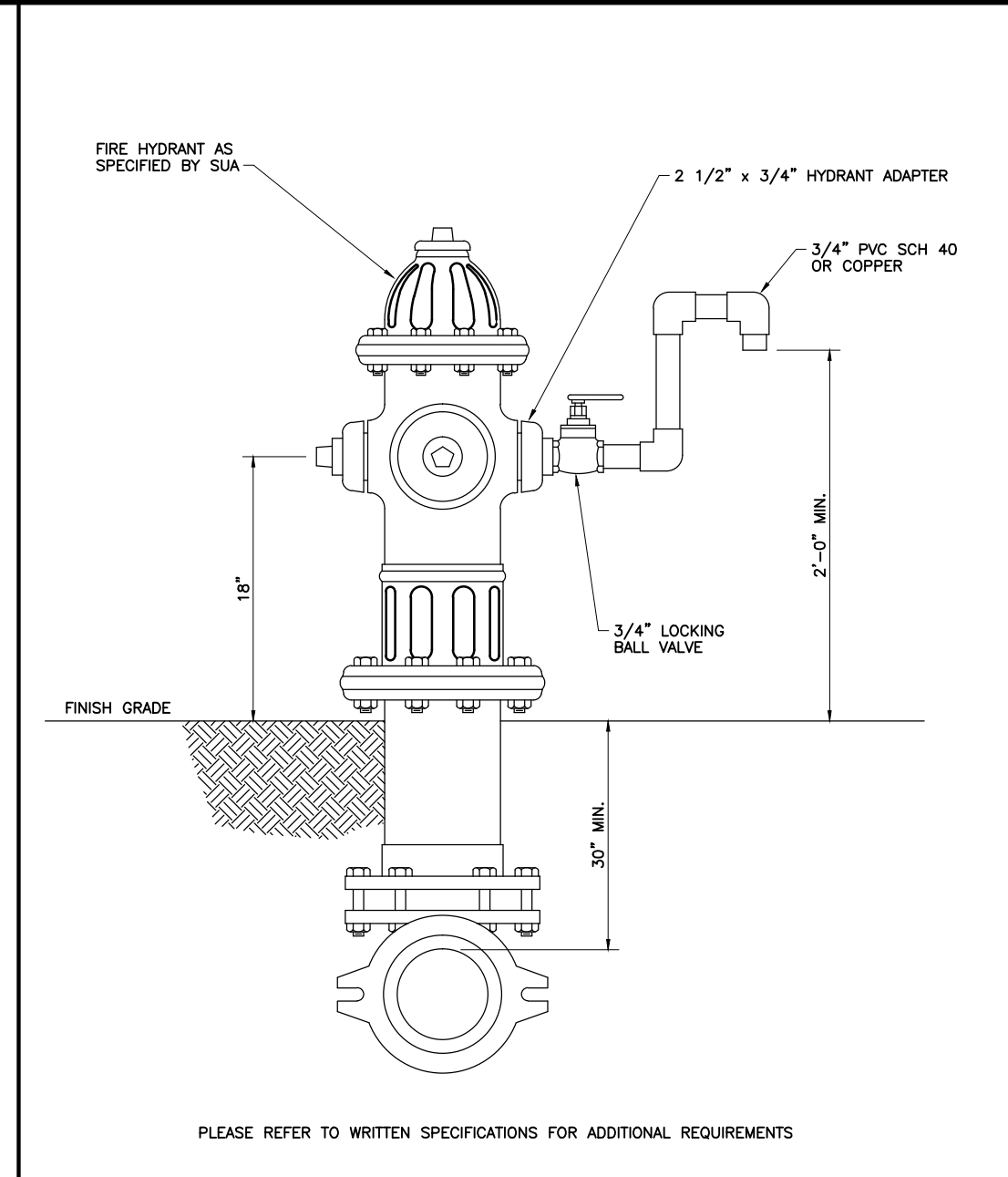
PROFESSIONAL ENGINEER
 08092014
 FLORIDA LICENSE No. 68336
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
UTILITIES PLAN
 SHEET NUMBER:
C-8

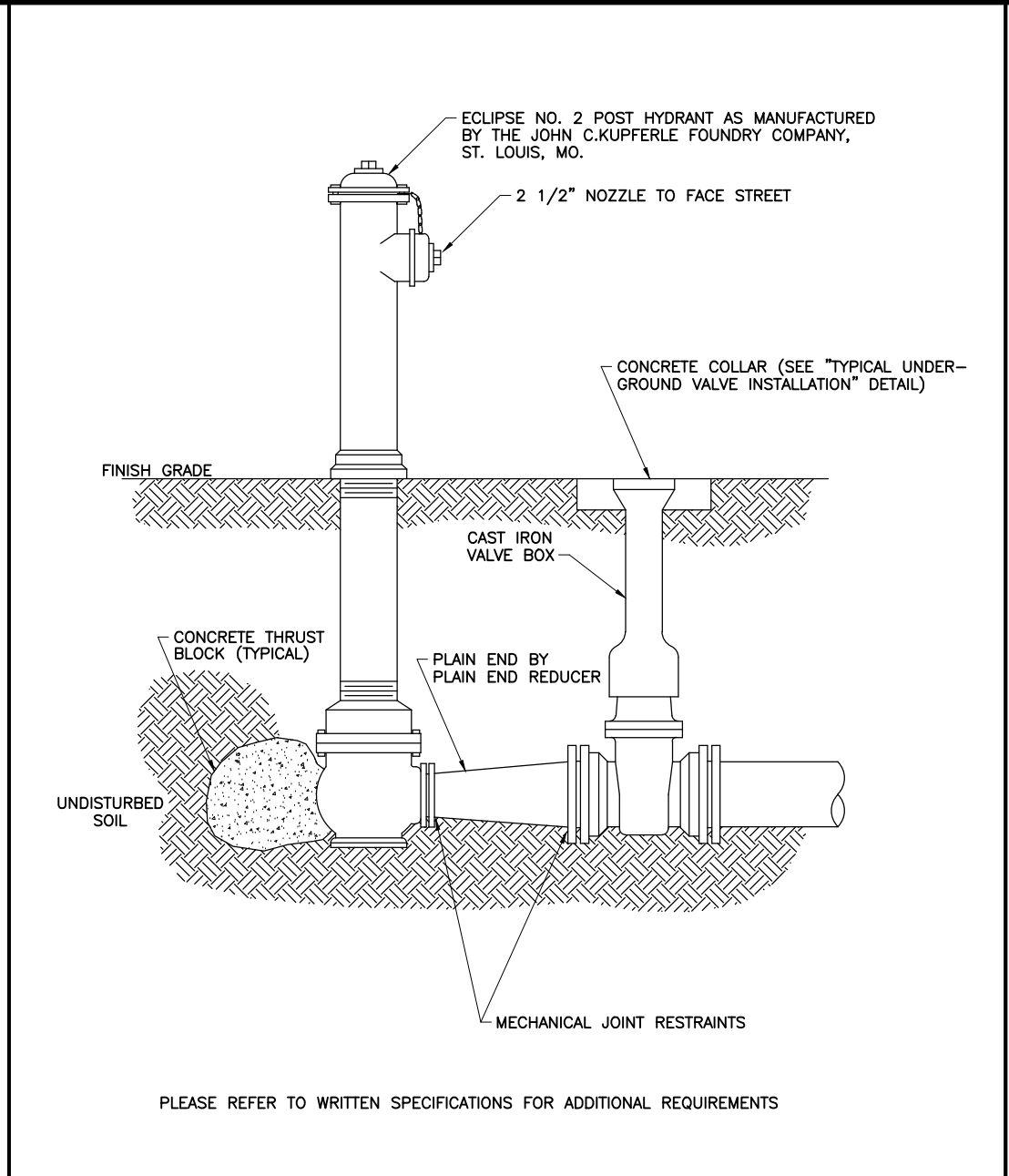
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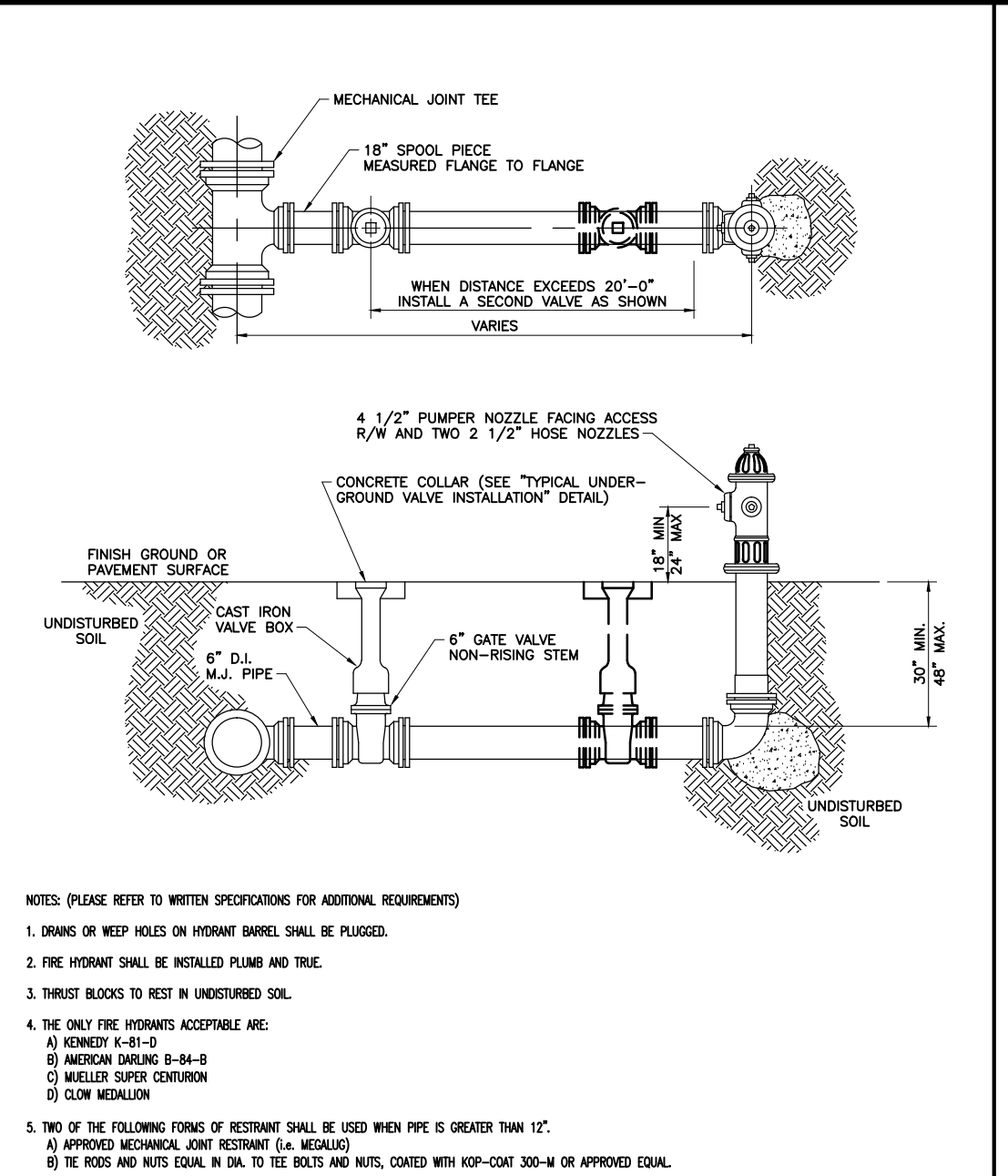
Water Meter and Backflow Prevention 3/4" to 2"
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 36



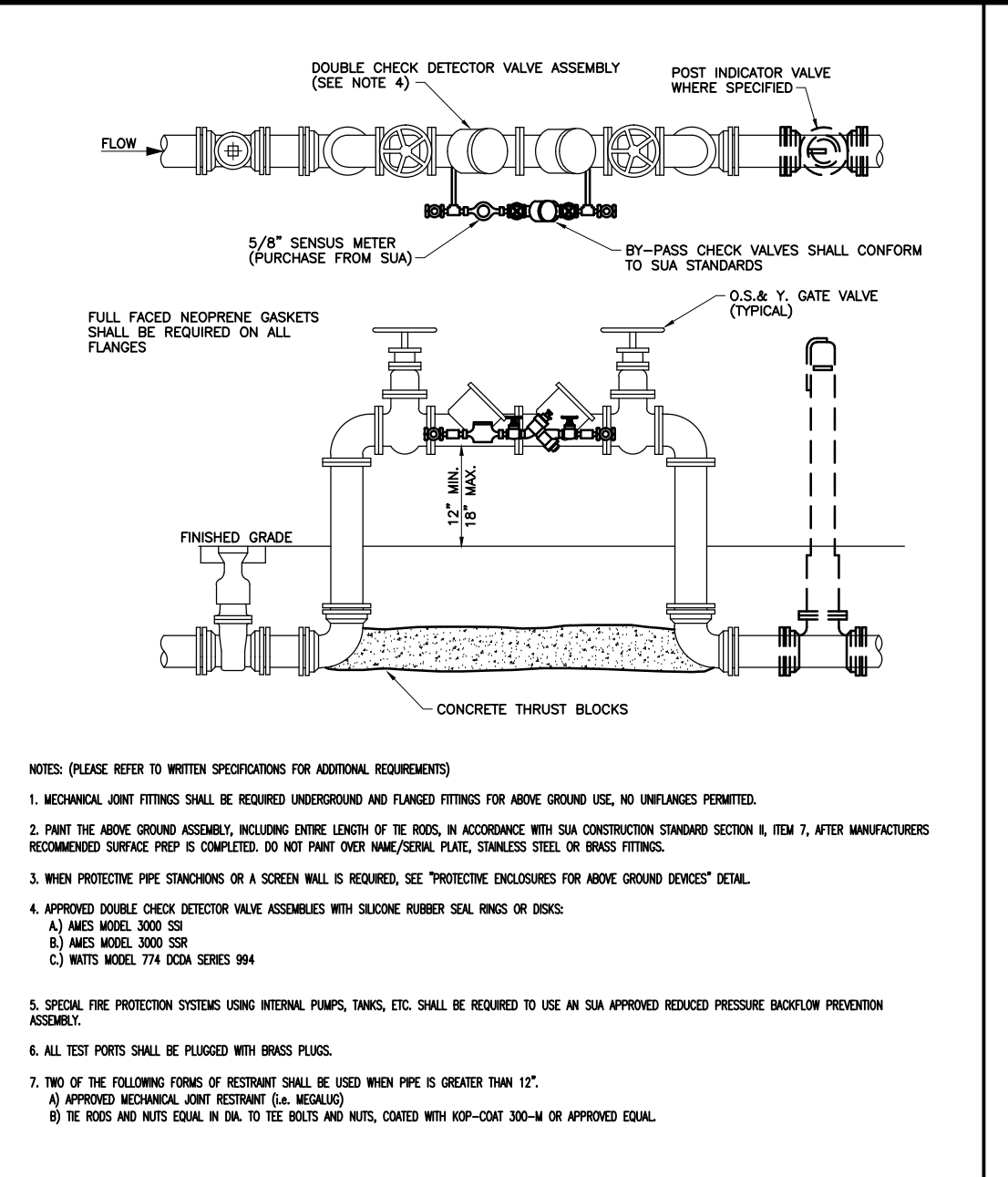
Sample Point - Fire Hydrant
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
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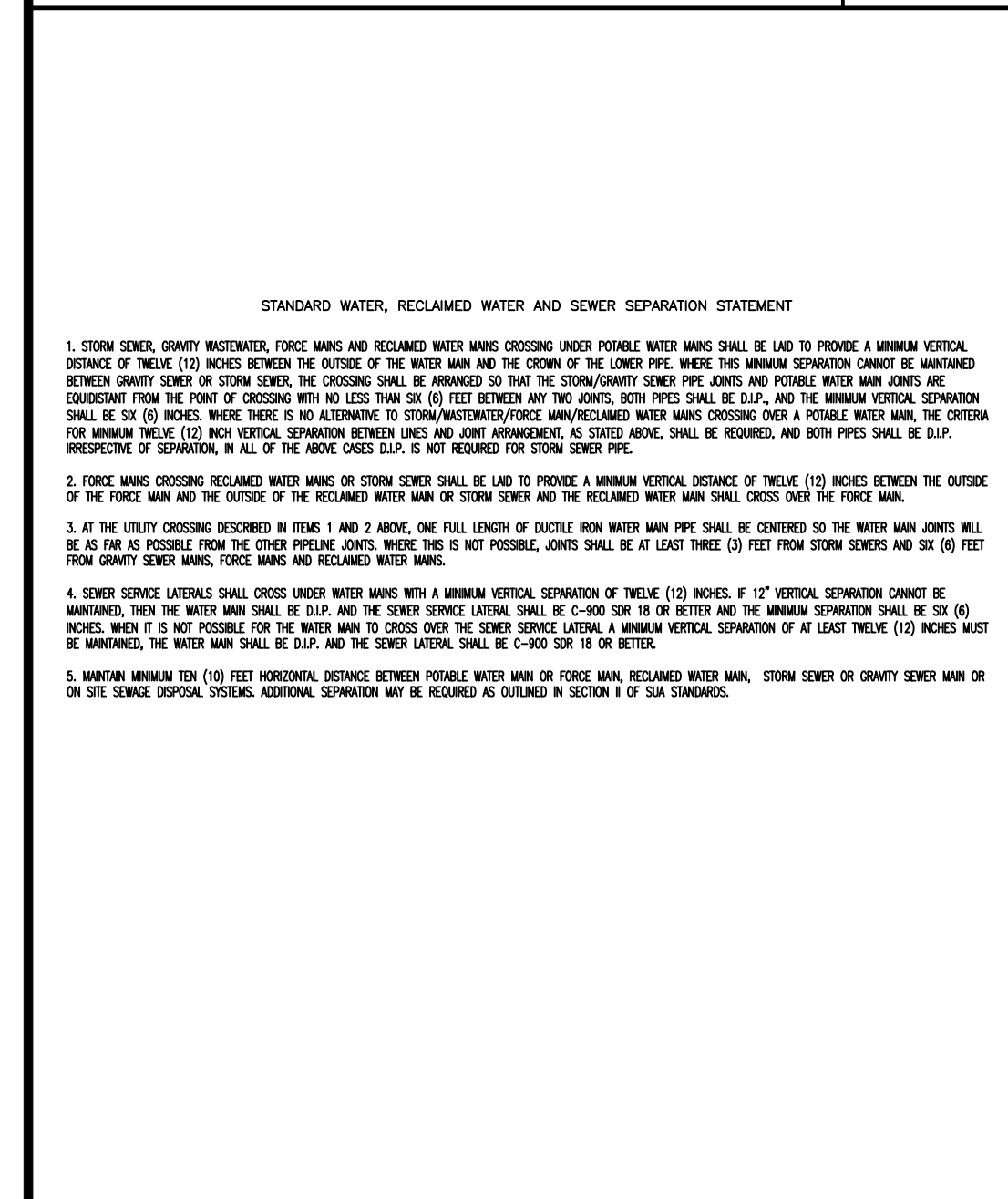
Flushing Hydrant
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 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
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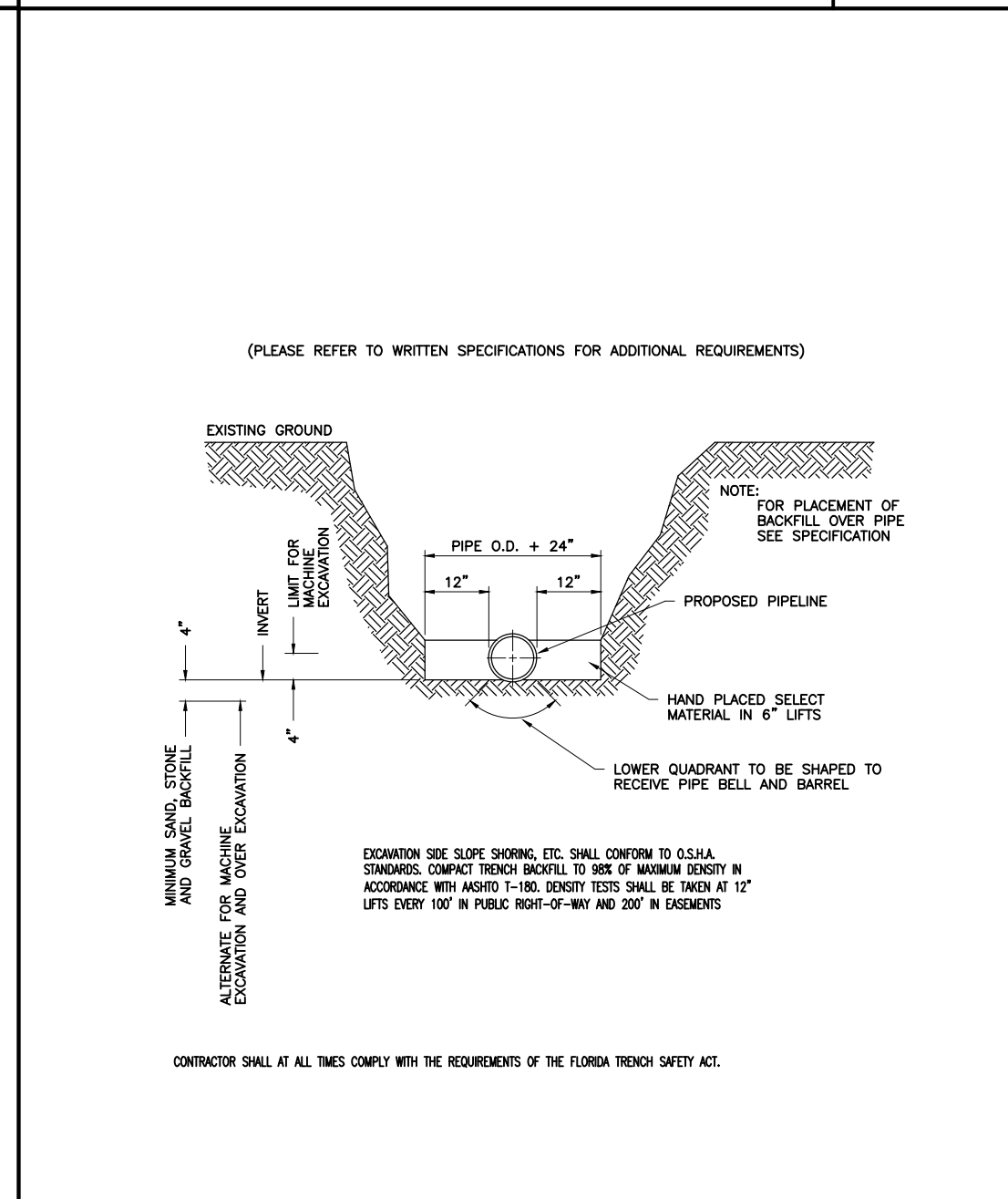
Typical Fire Hydrant Installation
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 25



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



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

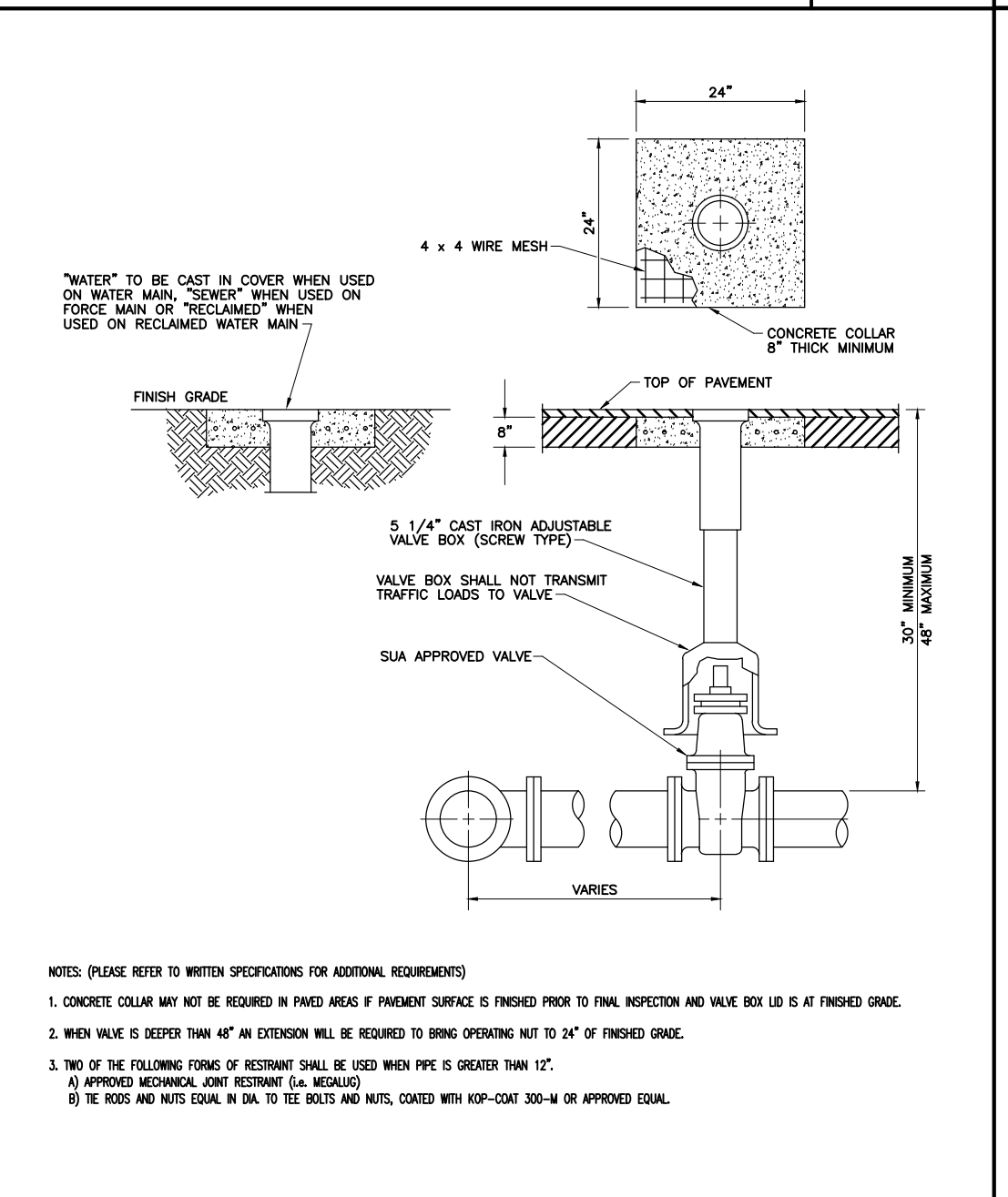


Standard Trenching Procedure
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 4

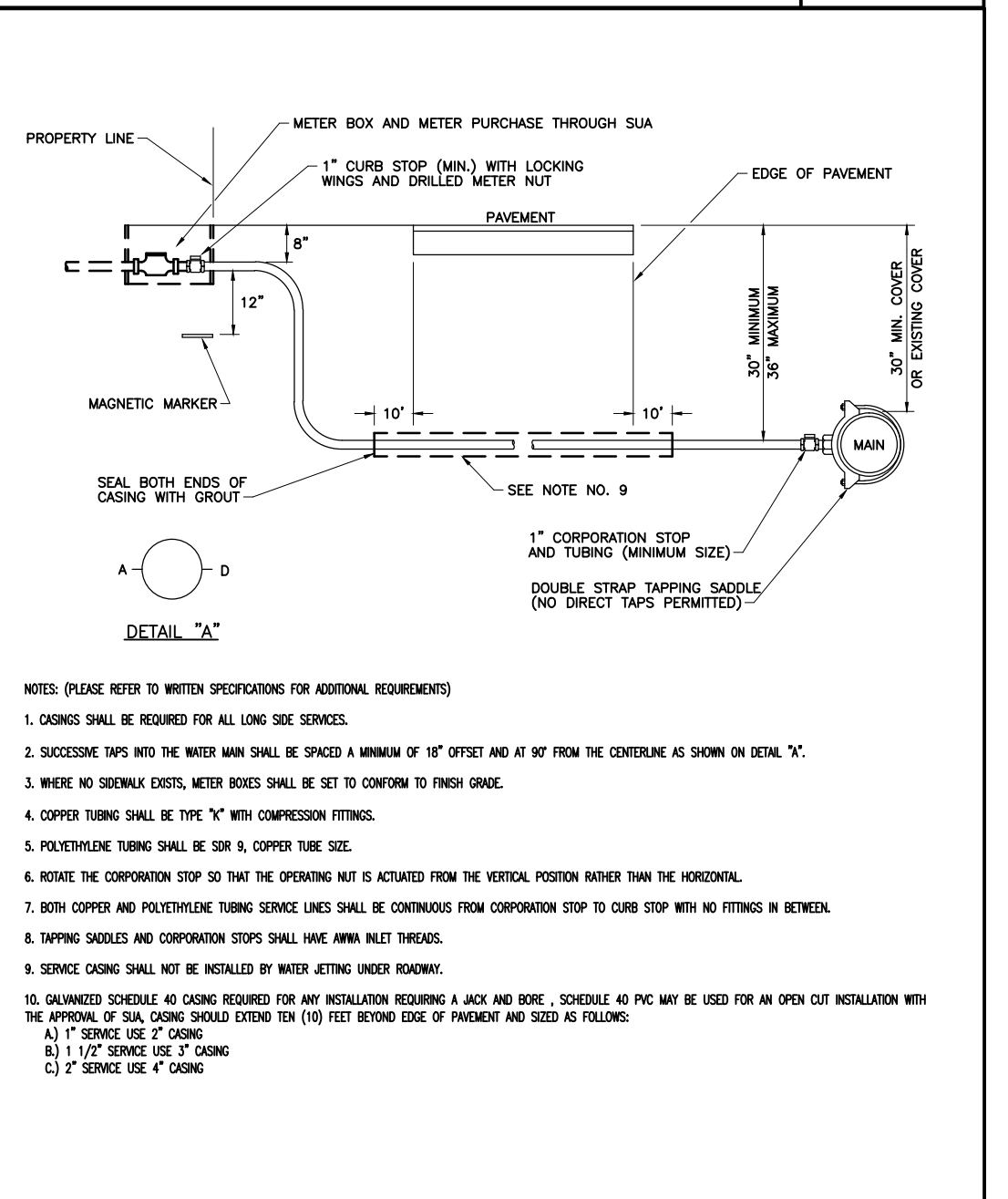
Pipe Restraint Table

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"

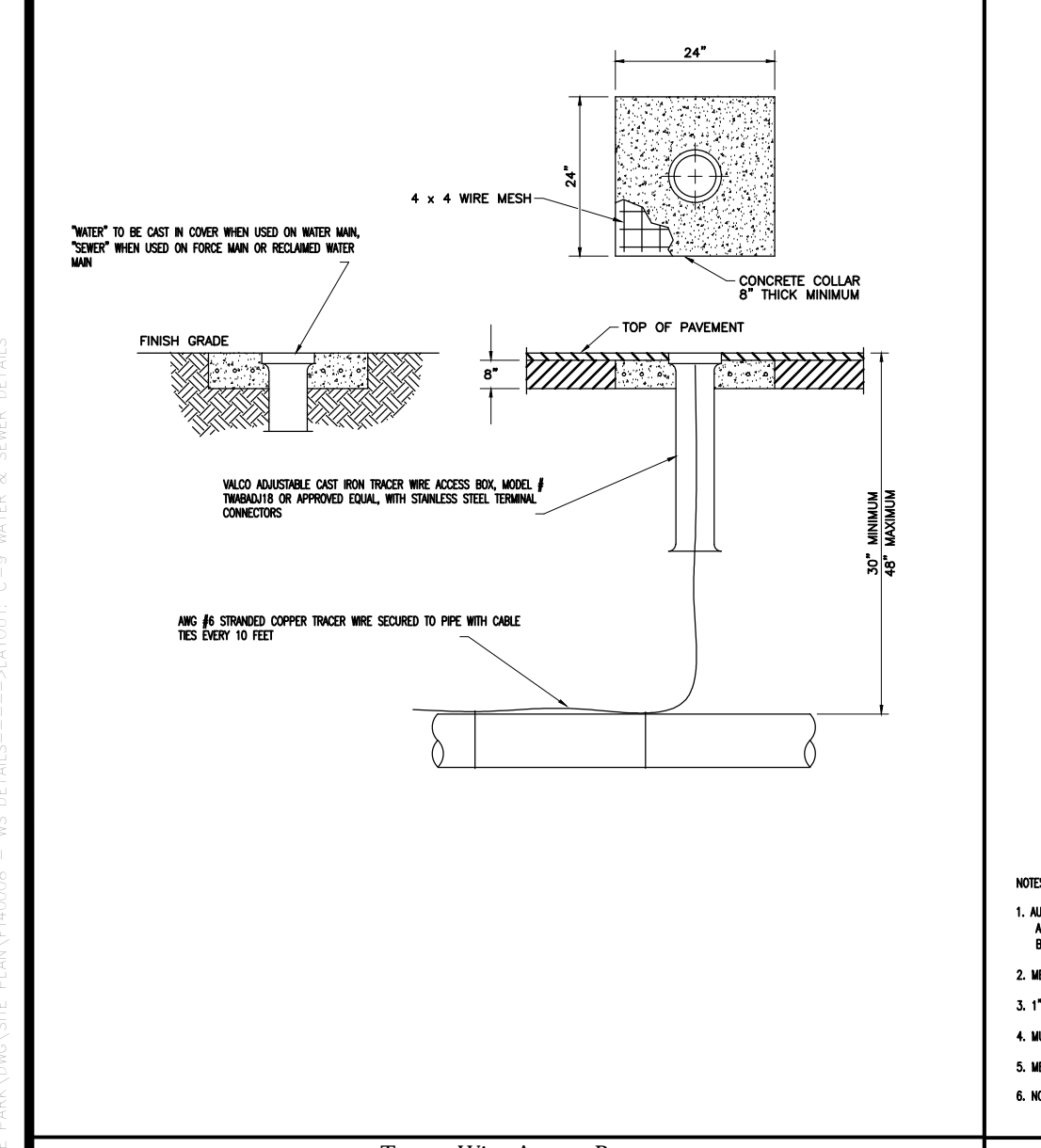
Pipe Restraint Table
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
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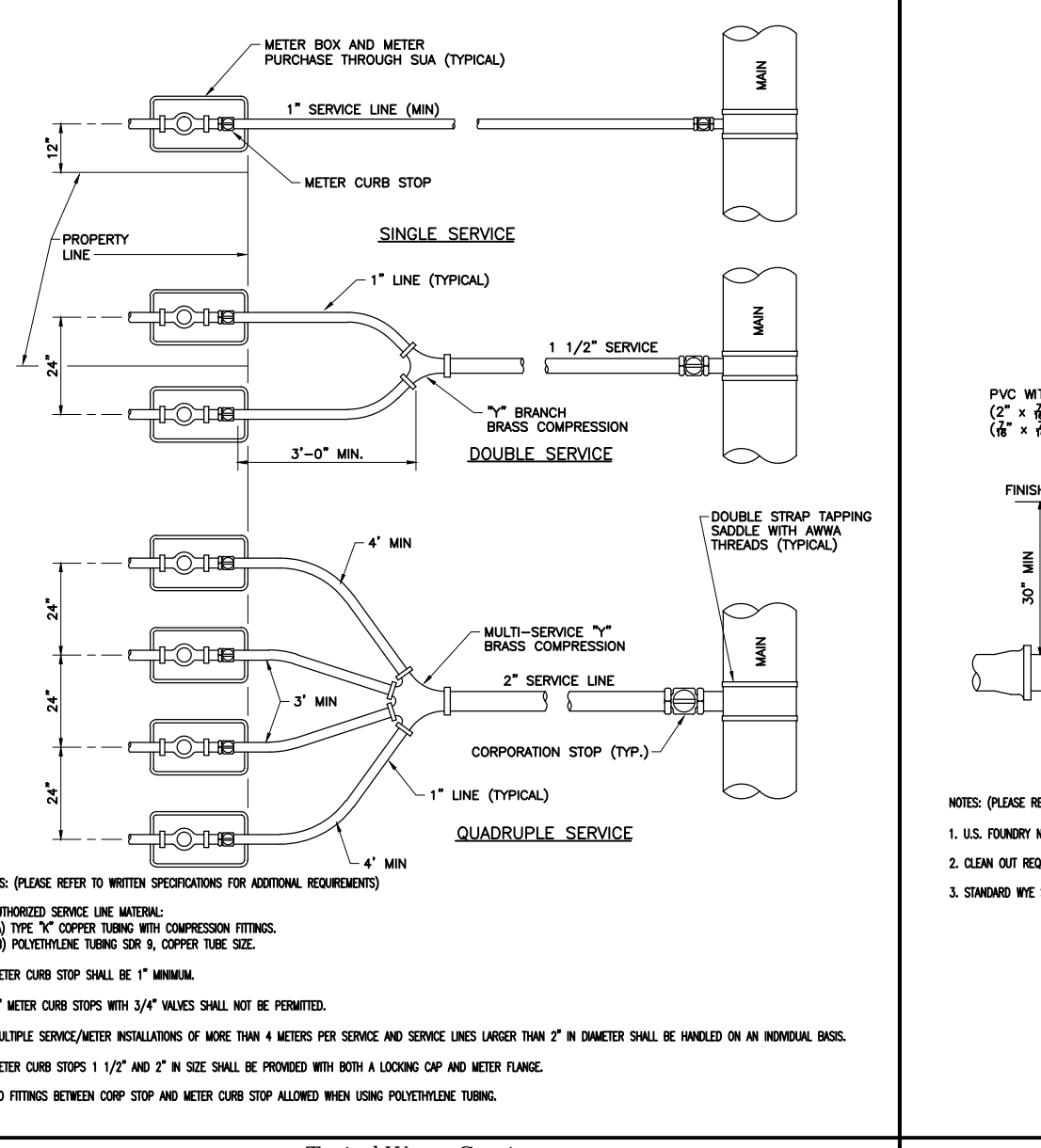
Typical Underground Valve Installation
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 10



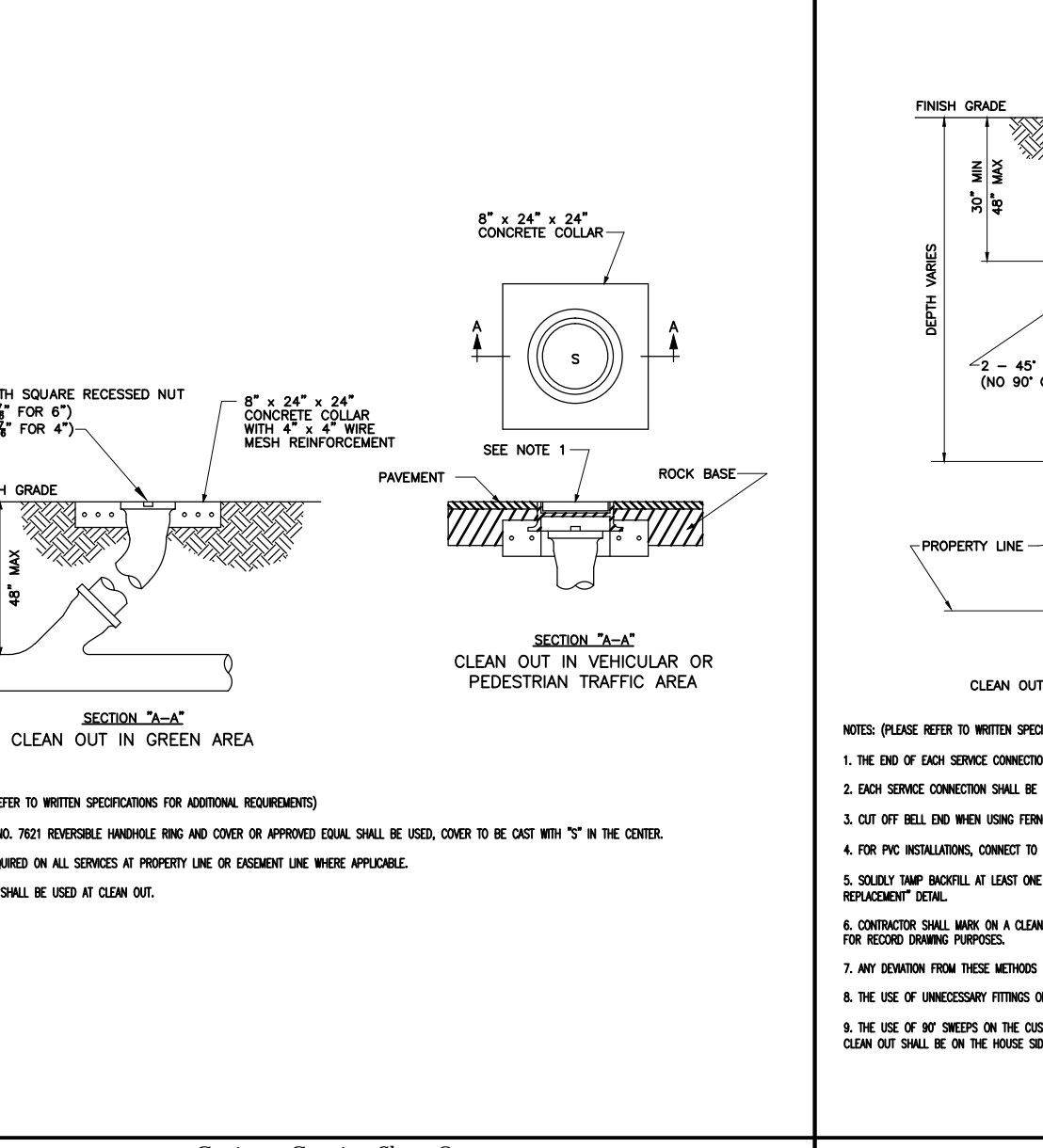
Typical Water Service Installation
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 29



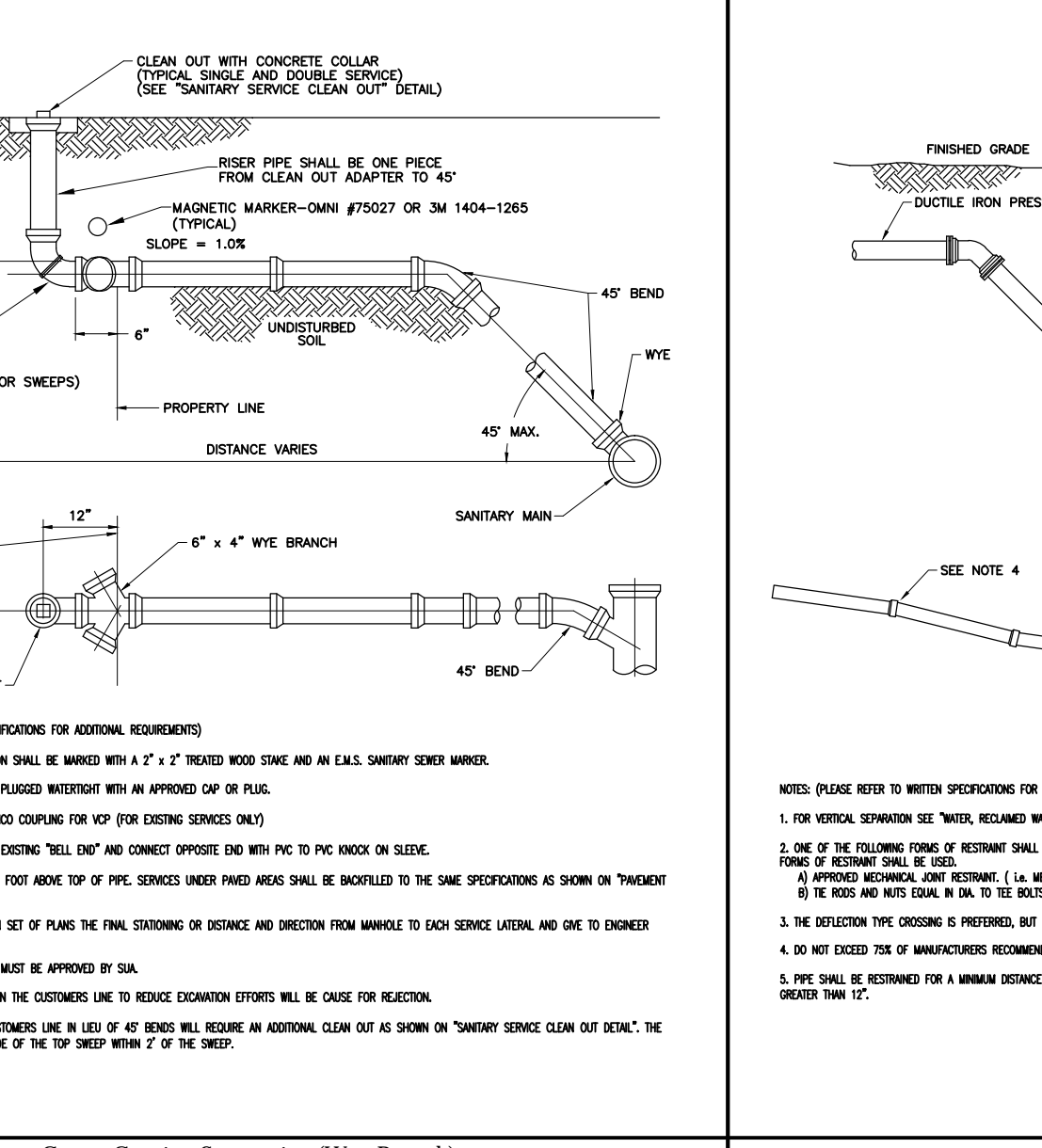
Tracer Wire Access Box
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 42



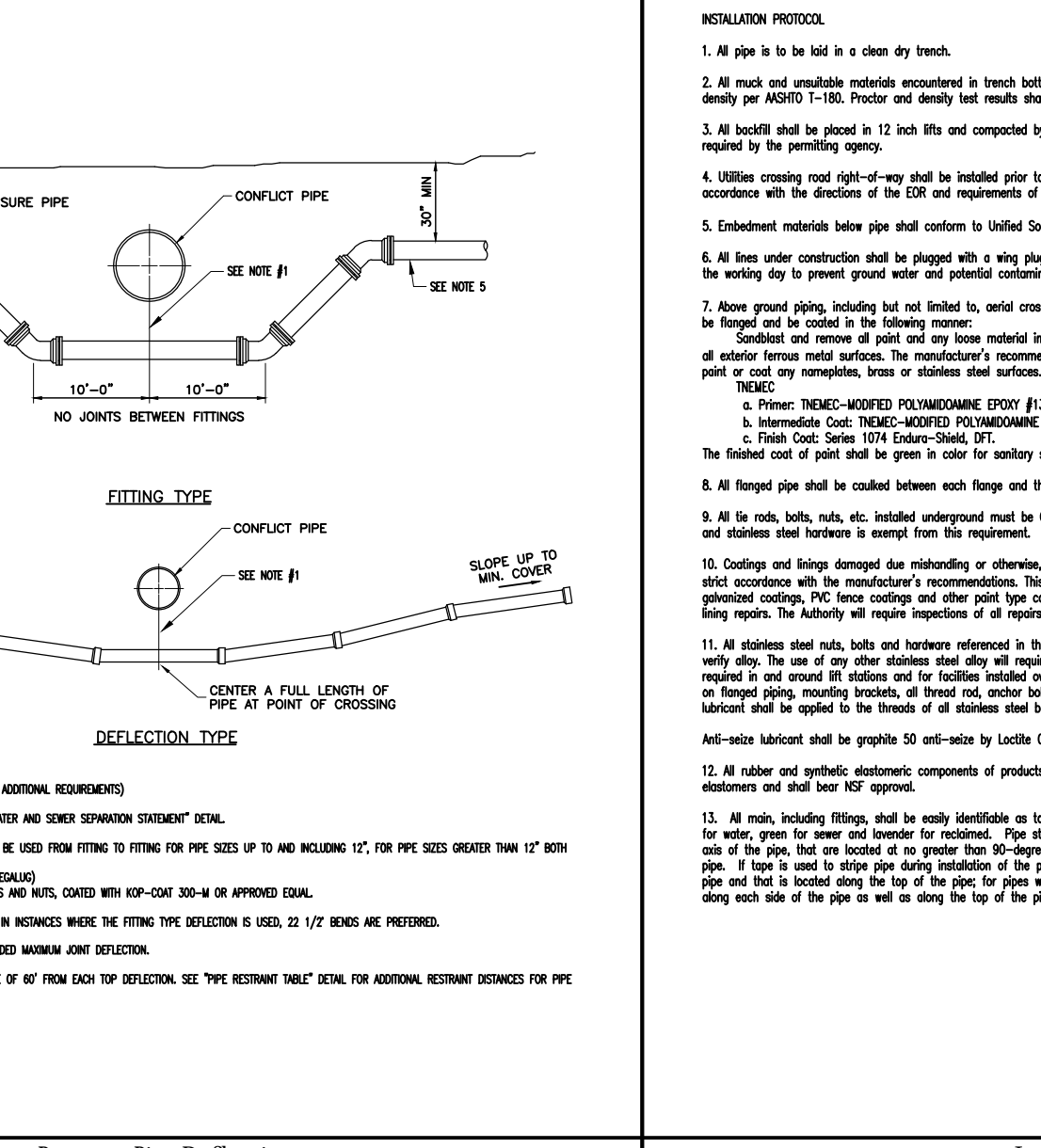
Typical Water Service
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 28



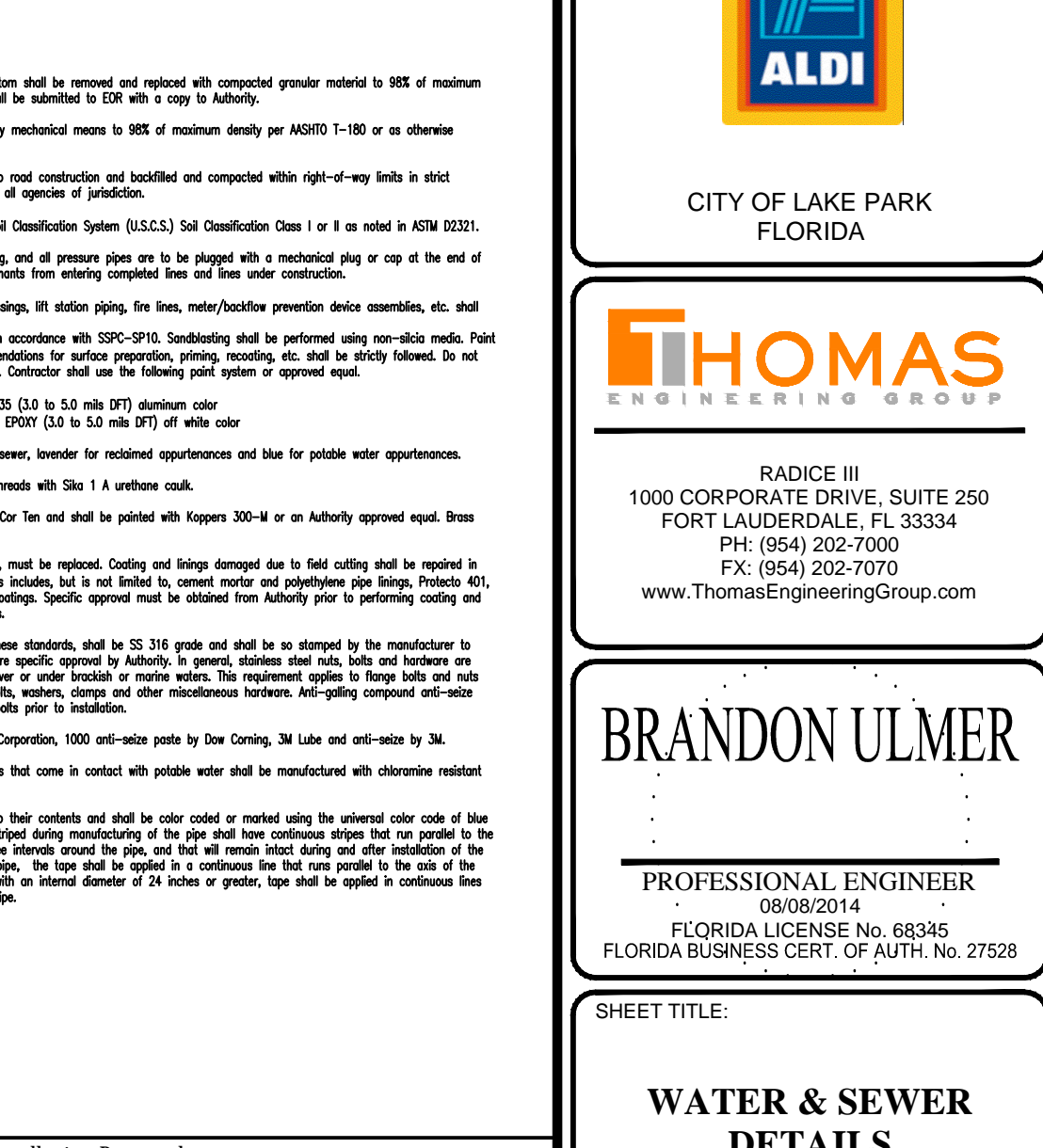
Sanitary Service Clean Out
SEACOAST UTILITY AUTHORITY
 CONSTRUCTION STANDARDS AND DETAILS
 DATE APPROVED: July 25, 2012
 DRAWING No. 57



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

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

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

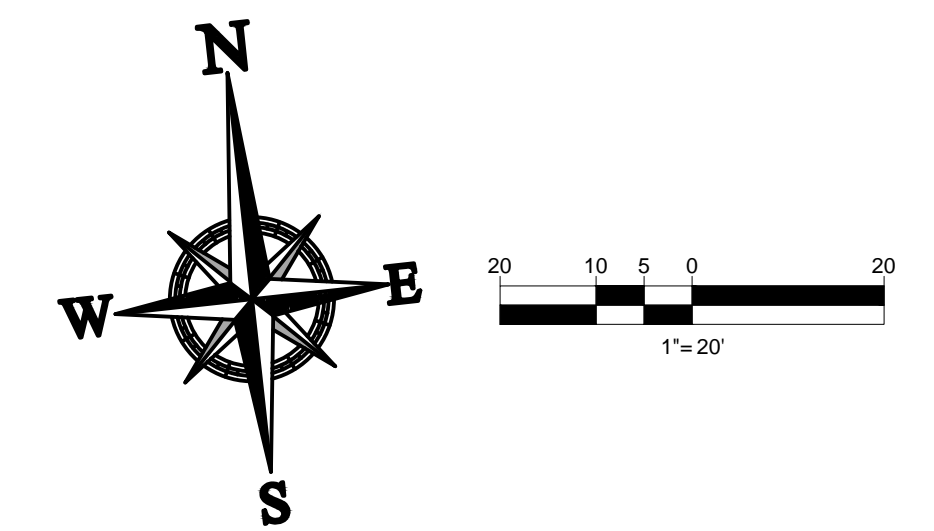
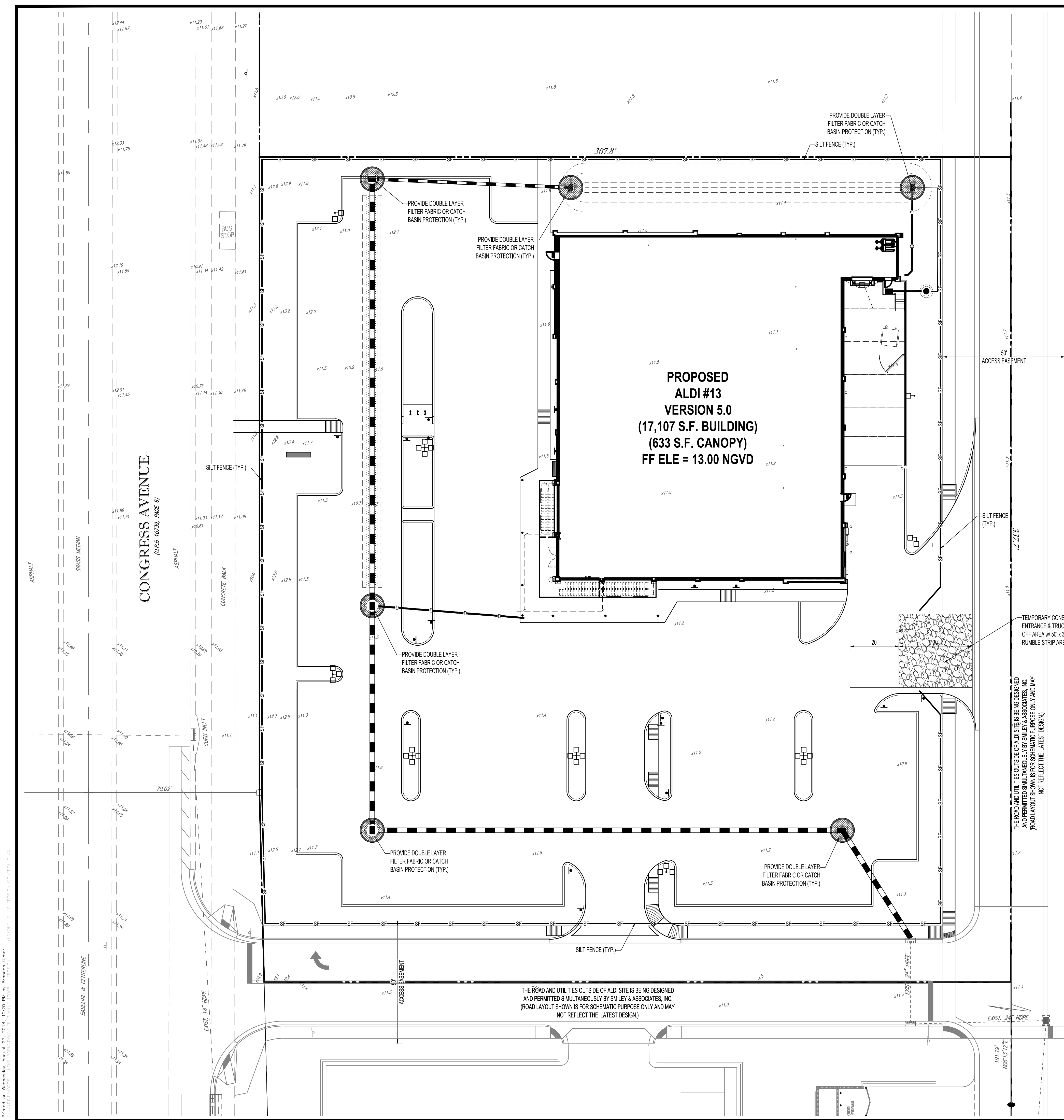
FOR

 CITY OF LAKE PARK FLORIDA

THOMAS ENGINEERING GROUP
 RADICE III
 1000 CORPORATE DRIVE, SUITE 250
 FORT LAUDERDALE, FL 33334
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 FX: (954) 202-7070
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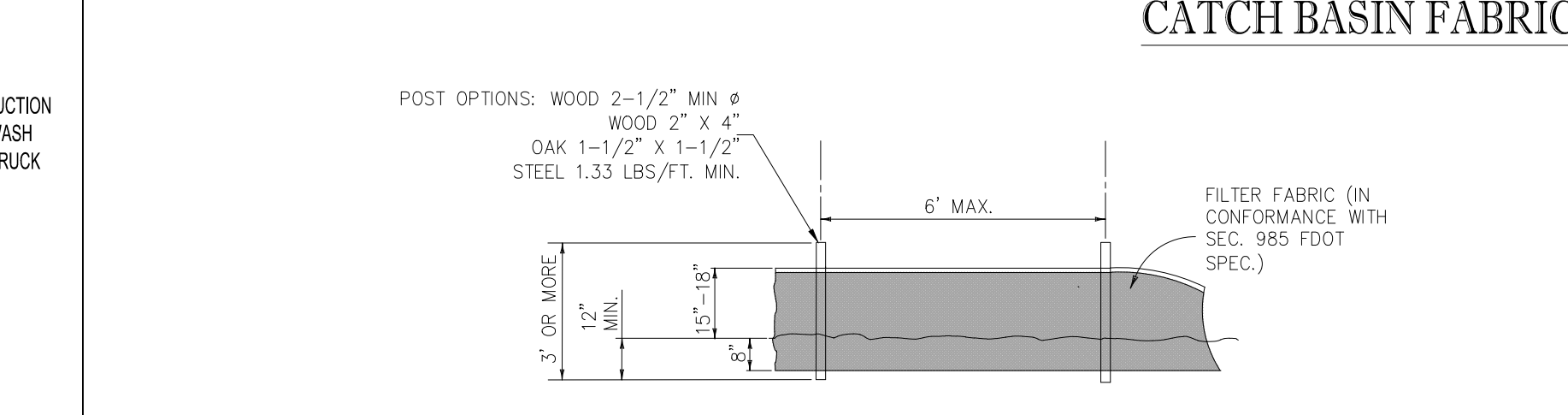
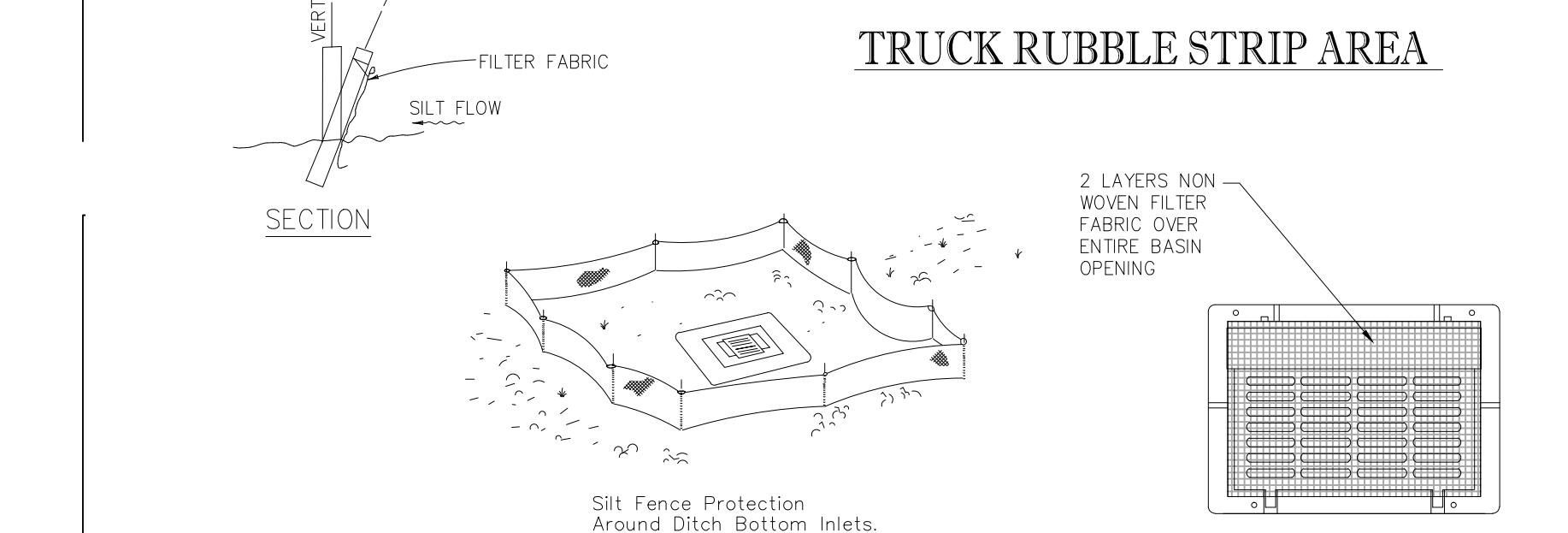
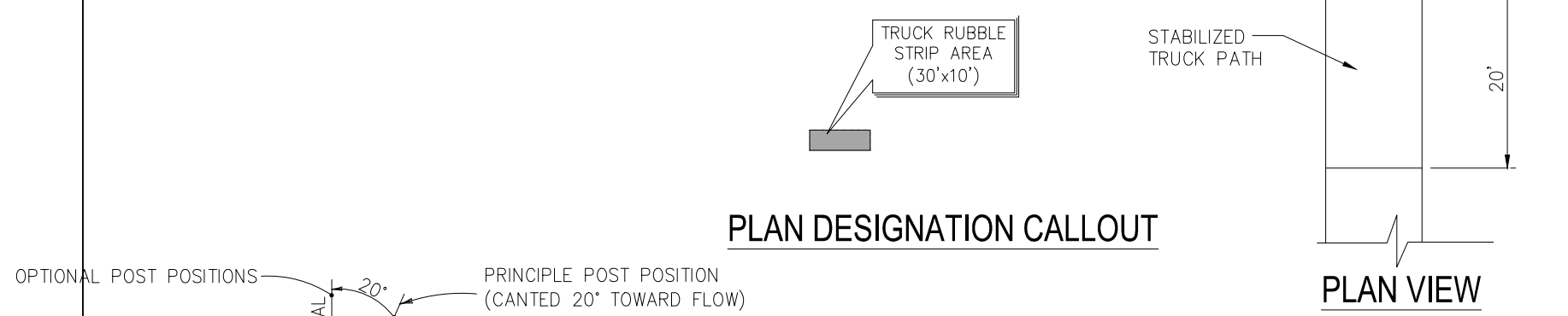
BRANDON ULMER
 PROFESSIONAL ENGINEER
 19082014
 FLORIDA LICENSE NO. 683345
 FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
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.



SILT FENCE DETAIL (F.D.O.T. INDEX 102, SHEET 03 OF 03)

G:\Commerce\2010\F100101 - Plantation-1800 N Pine Island\SITEPLAN\FDOT INDEX 106.tiff

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SUITE 100
MIAMI, FLORIDA 33130

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

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ENTITLEMENT

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

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

FOR

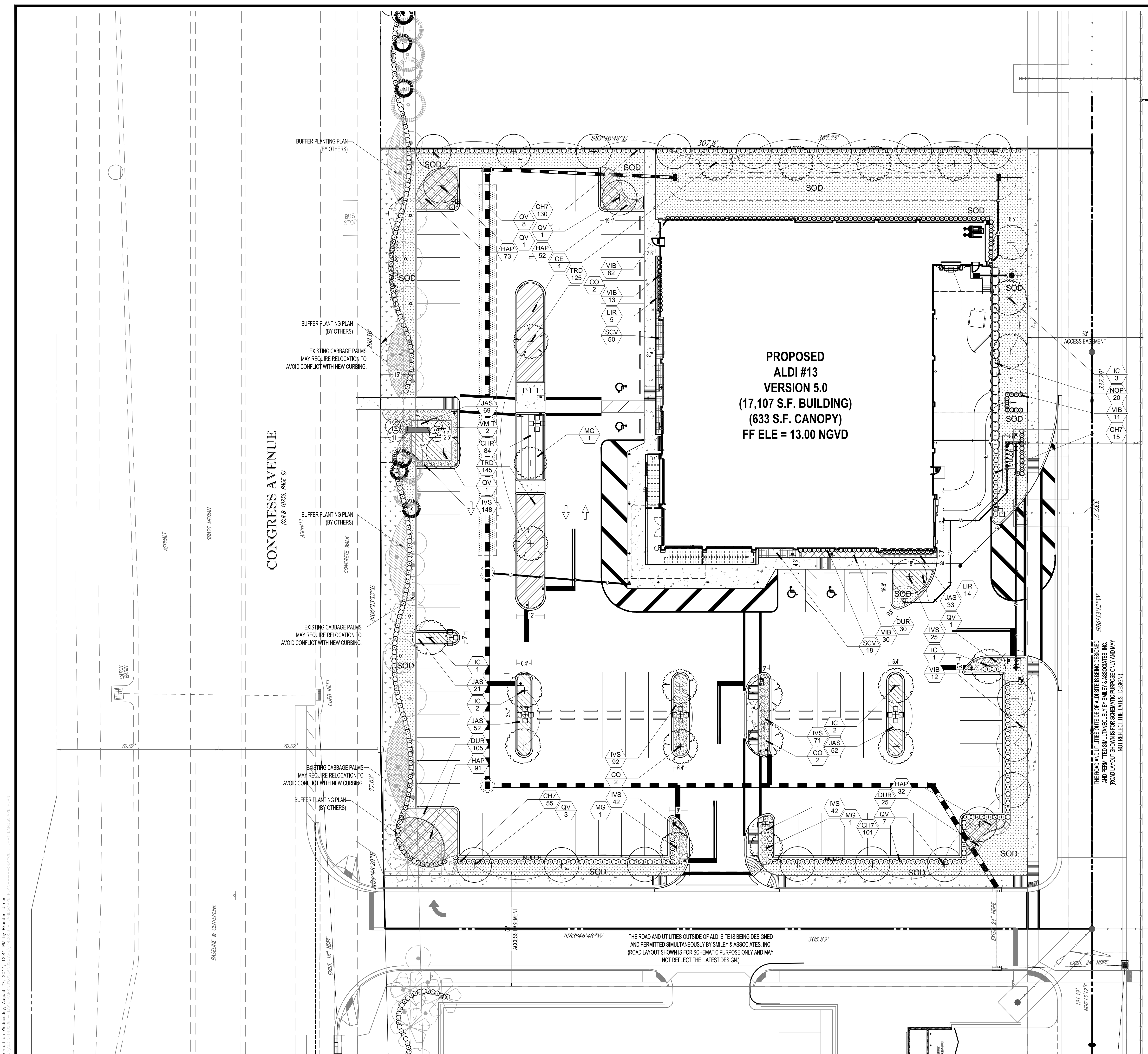
CITY OF LAKE PARK
FLORIDA

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08082014
FLORIDA LICENSE No. 68336
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
EROSION CONTROL PLAN
SHEET NUMBER:
C-10

Printed on Wednesday, August 27, 2014, 12:20 PM by Brandon Ulmer



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



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.

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

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ENTITLEMENT

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

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

FOR

CITY OF LAKE PARK
FLORIDA

**THOMAS
ENGINEERING GROUP**

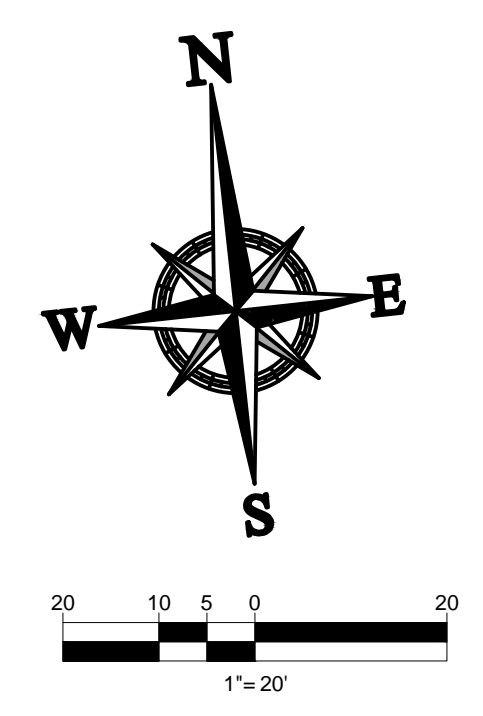
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MICHAEL D. GROSSWIRTH

REGISTERED LANDSCAPE ARCHITECT
06/07/2014
FLORIDA LICENSE NO. 6666871
FLORIDA BUSINESS CERT. OF AUTH. NO. 27528

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
LP-1



Printed on Wednesday, August 27, 2014, 12:41 PM by Brandon Utner

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 *	9	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 *	22	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
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 *	301	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 *	248	Fire Bush	Hamelia patens	n/a	24"	24-30"	18-24"	Yes	High	Full to base
JAS *	227	Southern Wax Jasmine	Jasminum simplicifolium	n/a	24"	18-24"	18"	No	Medium	Full to base
SCV	68	Variiegated Schefflera	Schefflera calypttratus	3 gal	24"	18"	18"	No	High	Full to base
TRD	270	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 *	160	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 *	19	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 *	9,861 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 CONGREE AVE BUFFER

* TOWN OF LAKE PARK PREFERRED PLANT LIST

LANDSCAPE CODE COMPLIANCE CHART

LAKE PARK LAND DEVELOPMENT CODE; SEC 78-253

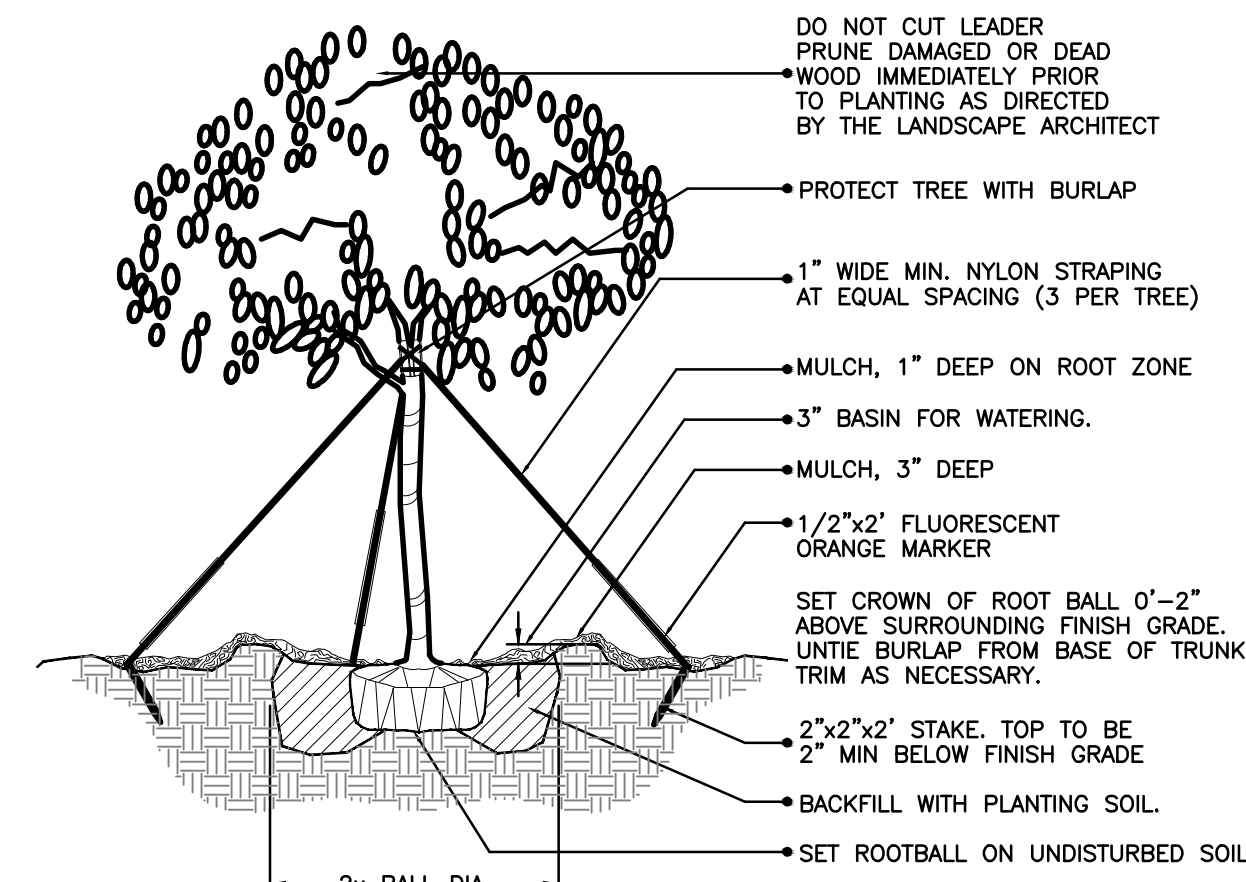
ALDIS MARKET

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	6910 sq.ft. (9861 less 2951 in retention) Provided Provided
SEC. 78.253 (h)(1): 8' Landscape Buffer at Perimeter 15' Landscape Buffer at Public R/O/W	8' Buffer 15' Buffer	Provided (refer to plans by Gentile & Associates)
SEC. 78.253 (h)(2): Maximum spacing of trees at Public R/O/W not to exceed 20' on center		24 Trees
SEC. 78.253 (h)(3): 75% of all Proposed Species must be selected from the Town's Preferred Plant List	4.5 Species 6 Tree Species 10 Shrub Species	5 Species 10 Species

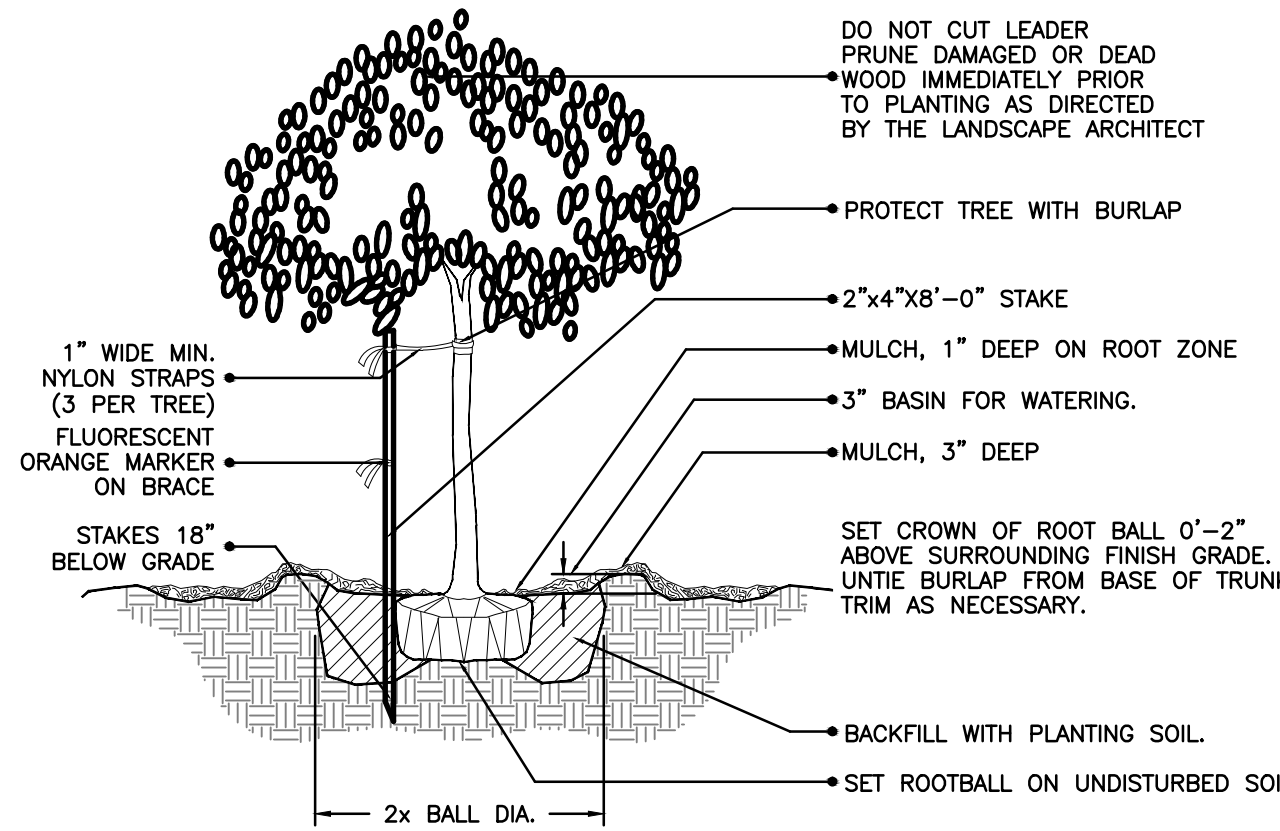
Perimeter Buffers for remainder of Property @ 1 Tree/40' if 951.28 lf @ 1 tree/40'

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



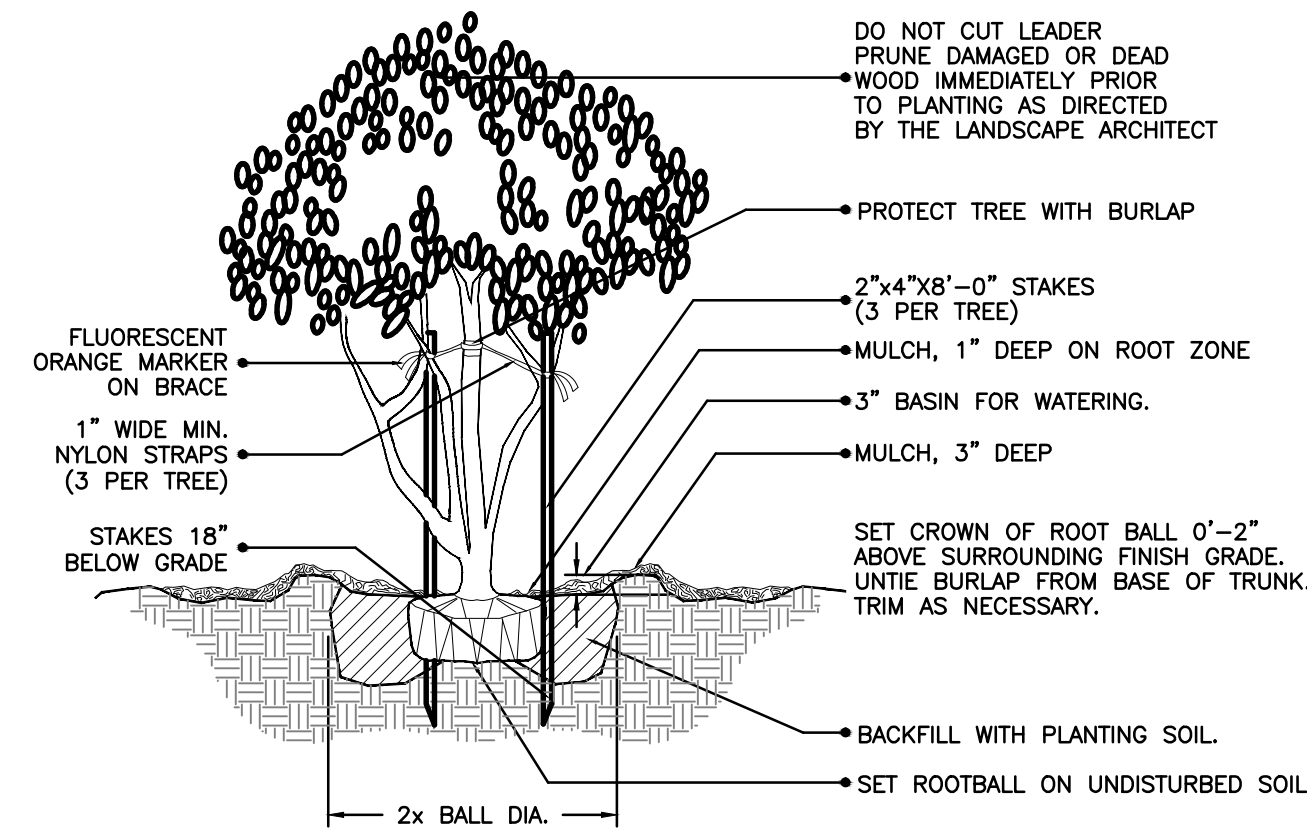
(2" cal. and over)
LARGE TREE PLANTING DETAIL

NTS



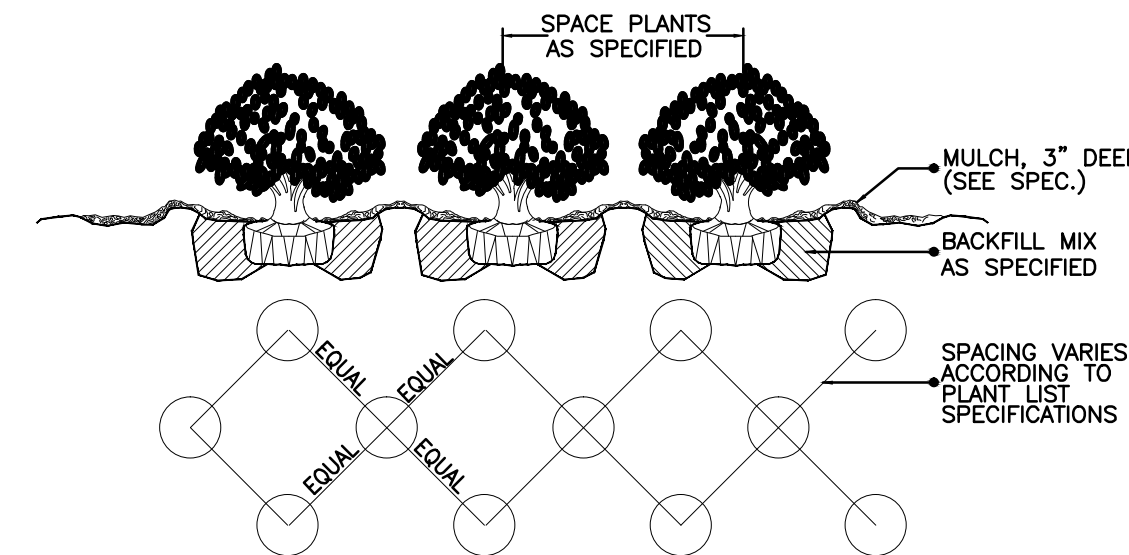
(2" cal. and under)
SMALL TREE PLANTING DETAIL

NTS



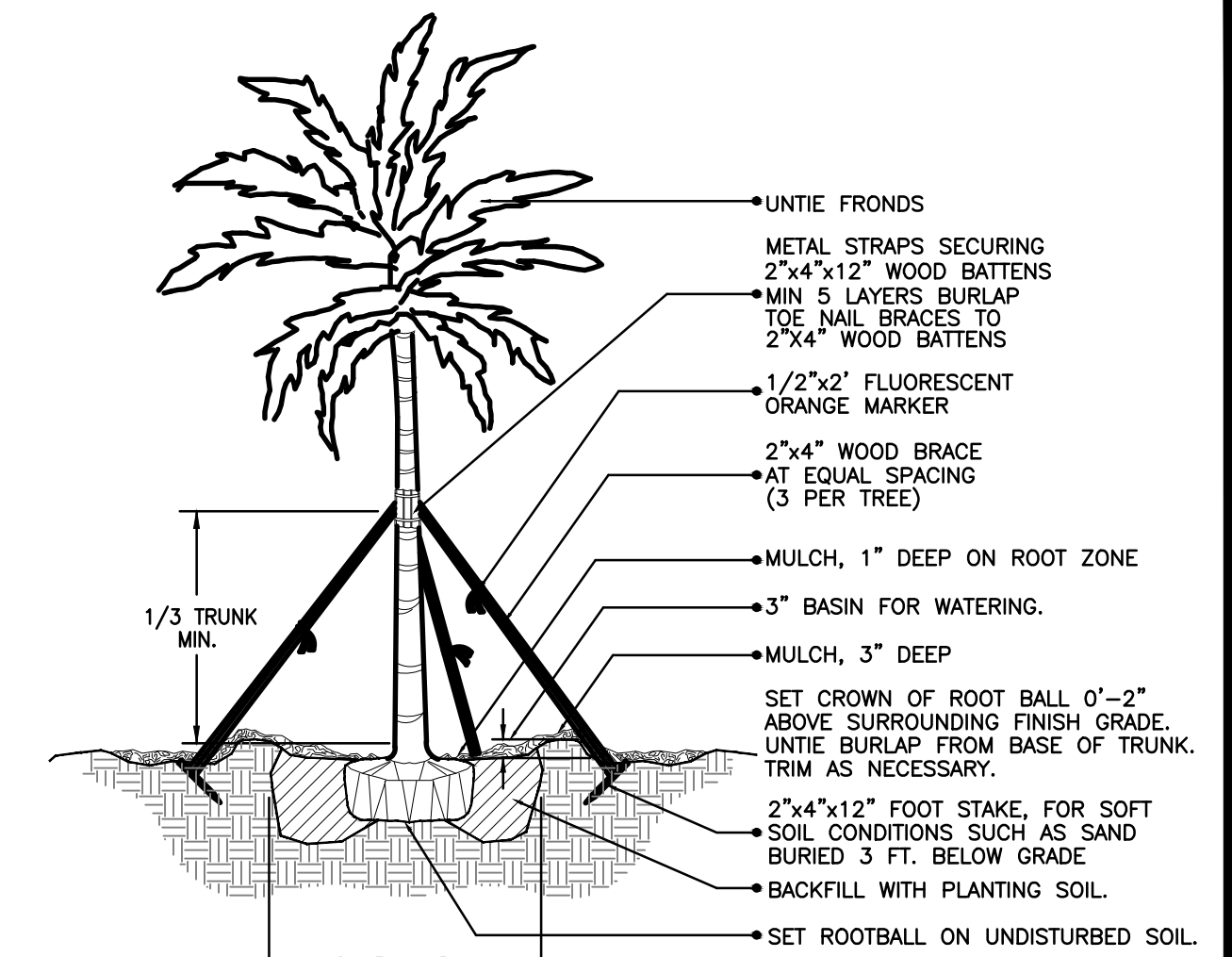
MULTI- TRUNK AND SMALL TREE
(2" cal. and under) PLANTING DETAIL

NTS



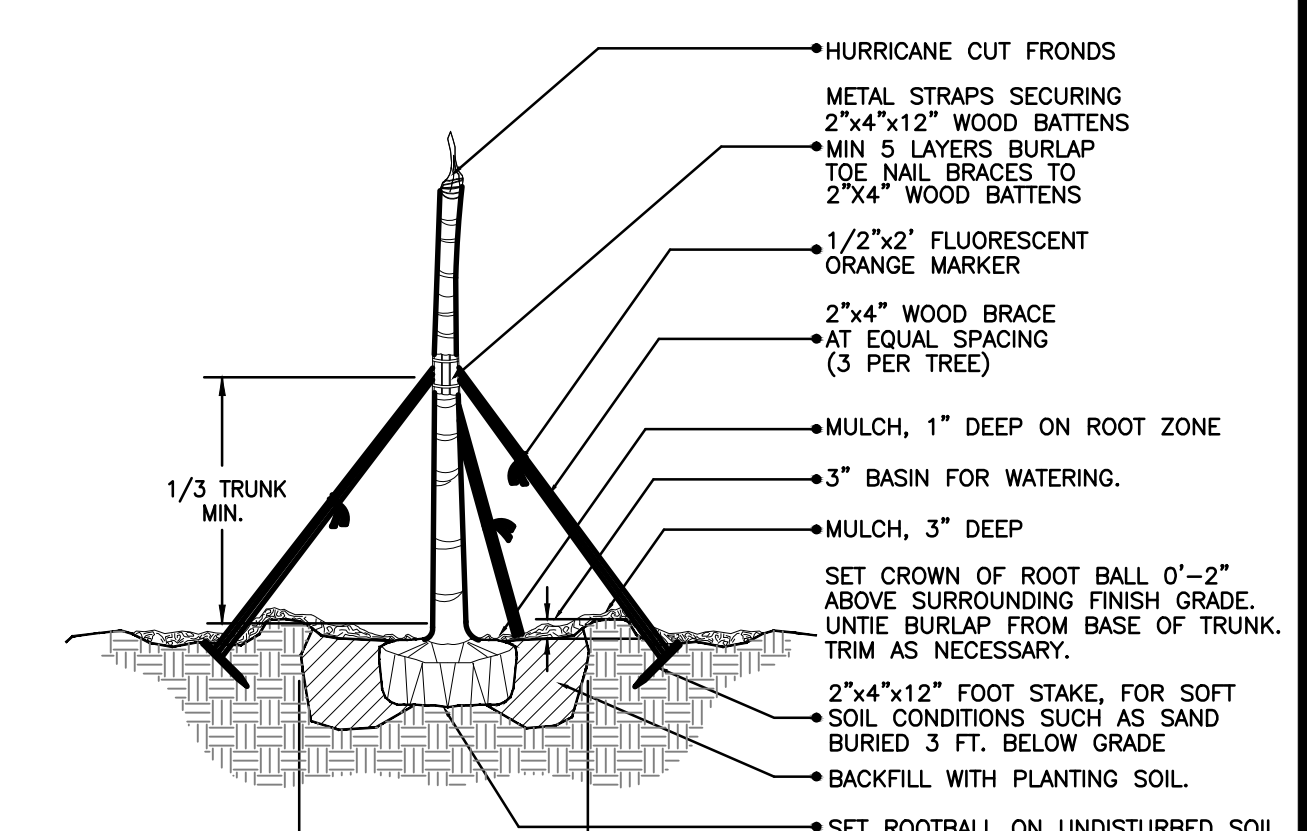
SHRUB / GROUND COVER
SPACING / PLANTING DETAIL

NTS



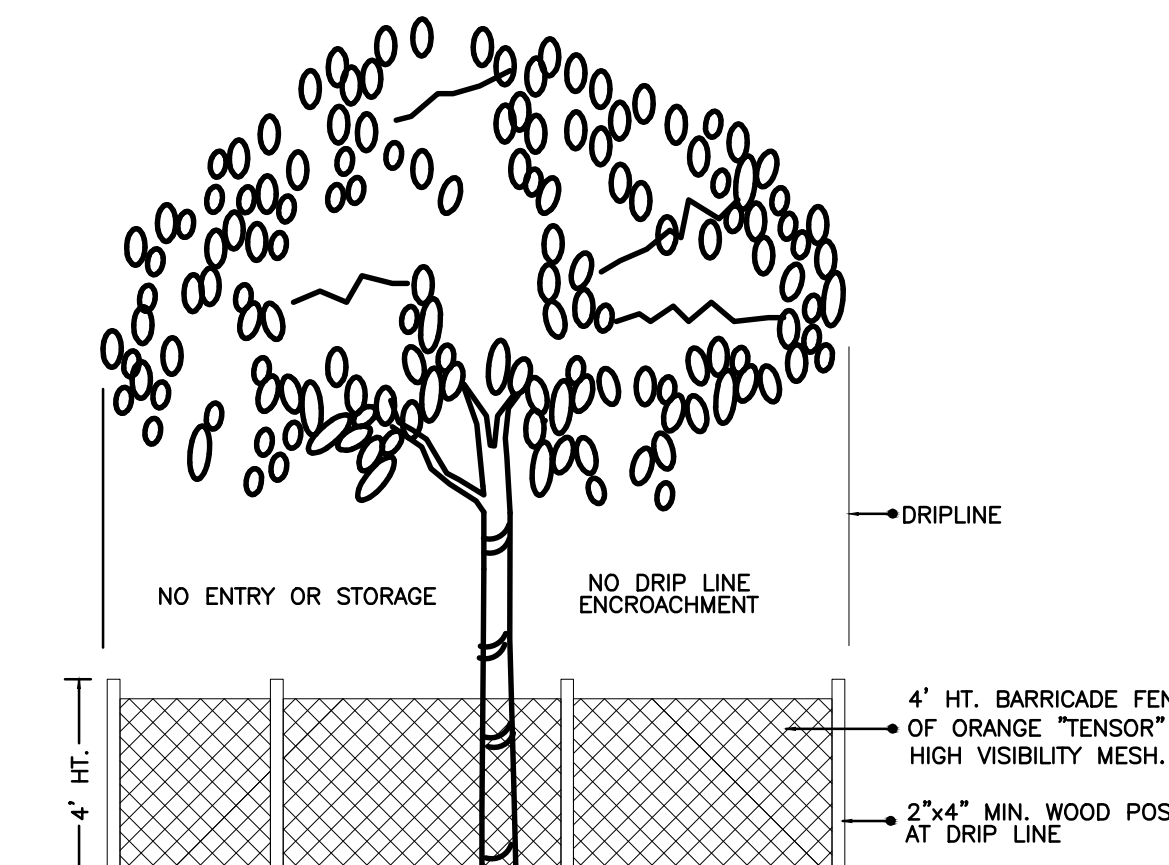
LARGE PALM PLANTING DETAIL

NTS



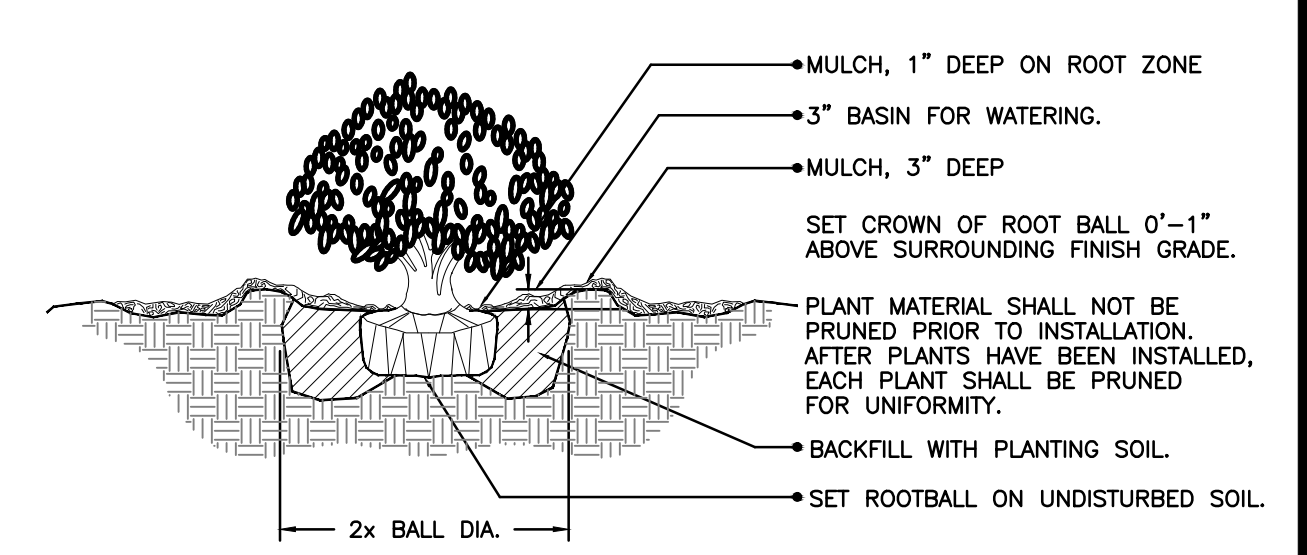
CIGARED SABAL
PALM PLANTING DETAIL

NTS



TREE PRESERVATION
BARRICADE FENCING DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

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 FORT LAUDERDALE, FLORIDA 33304
 954.473.0000

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ENTITLEMENT

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

ALDI #13 PARK AVENUE WEST & CONGRESS AVENUE

FOR

CITY OF LAKE PARK
FLORIDA

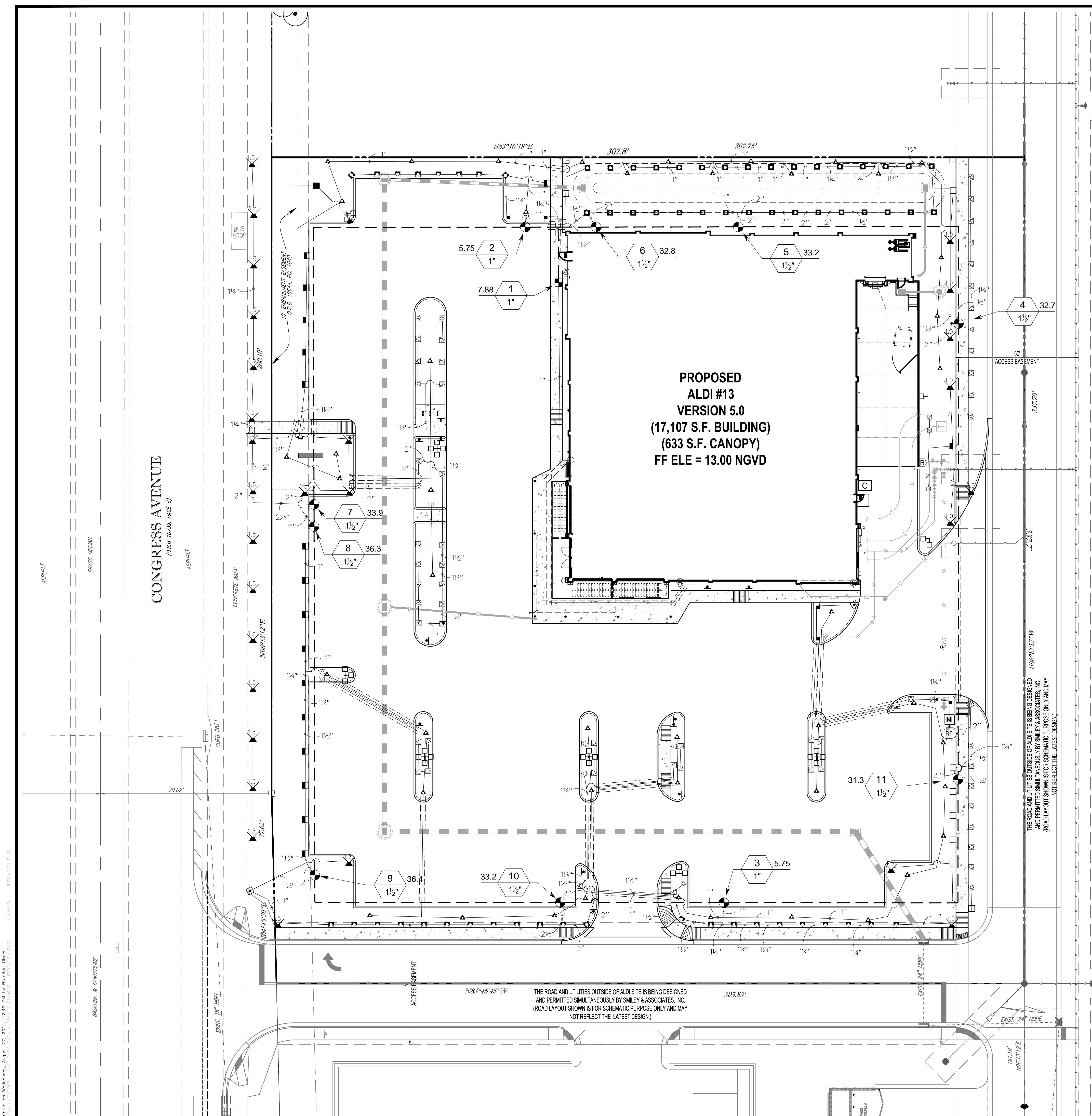
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MICHAEL D. GROSSWIRTH

REGISTERED LANDSCAPE ARCHITECT
 06/07/2014
 FLORIDA LICENSE No. 6666871
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
**LANDSCAPE PLANTING
 DETAILS**
 SHEET NUMBER:
LP-2



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



LOCATION MAP
1"=100'

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

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SUITE 600
MIRAGE, FLORIDA 33409

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

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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
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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

Printed on Wednesday, August 27, 2014, 12:42 PM by Brandon Utner

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

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

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

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ENTITLEMENT

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

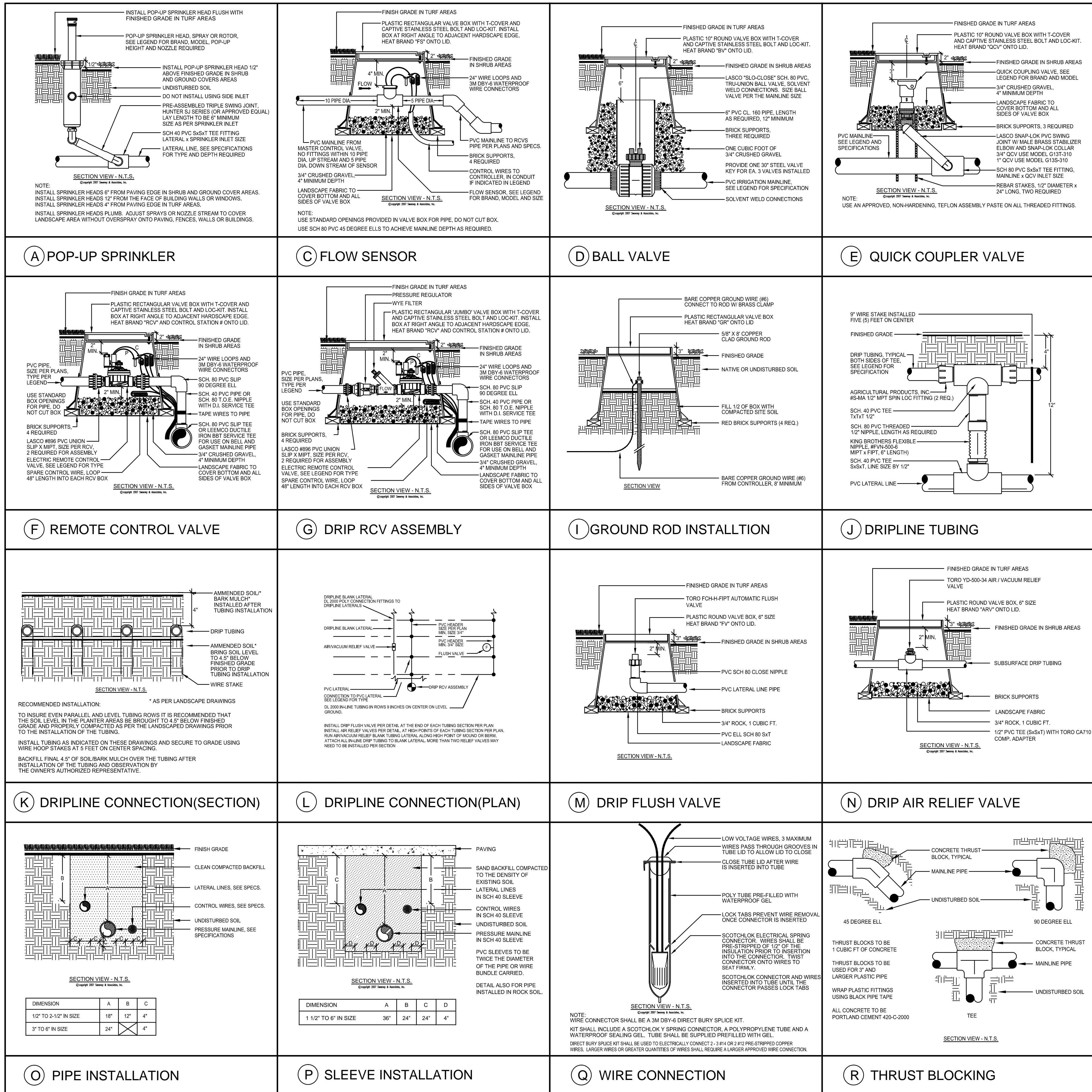
PROJECT:
ALDI #13
PARK AVENUE WEST & CONGRESS AVENUE
FOR

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

(C) FLOW SENSOR

(D) BALL VALVE

(E) QUICK COUPLER VALVE

(F) REMOTE CONTROL VALVE

(G) DRIP RCV ASSEMBLY

(I) GROUND ROD INSTALLTION

(J) DRIPLINE TUBING

(K) DRIPLINE CONNECTION(SECTION)

(L) DRIPLINE CONNECTION(PLAN)

(M) DRIP FLUSH VALVE

(N) DRIP AIR RELIEF VALVE

(O) PIPE INSTALLATION

(P) SLEEVE INSTALLATION

(Q) WIRE CONNECTION

(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"

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 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
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REVISIONS

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

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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

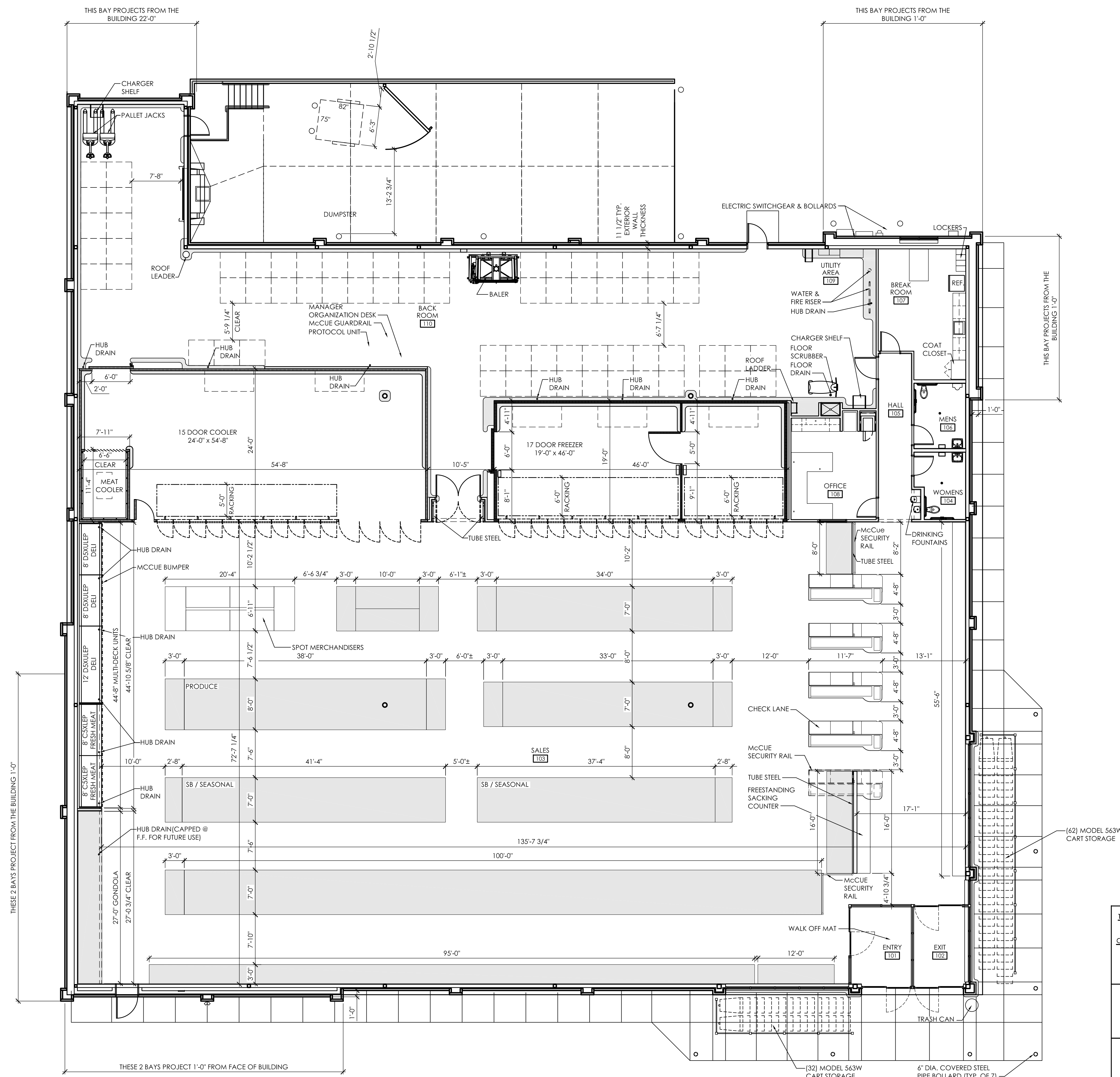
 CITY OF LAKE PARK
 FLORIDA

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

SHEET TITLE:
**IRRIGATION
 DETAILS**
 SHEET NUMBER:
LI-3

Printed on Wednesday, August 27, 2014, 12:42 PM by Brandon Umer, P:\Projects\2014\082714\LI-3\IRRIGATION_DETAILS



Issued:	Date:
A	
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C	
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Revisions:	Date:
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3	
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MICHAEL E. LYNCH
FL # 10661

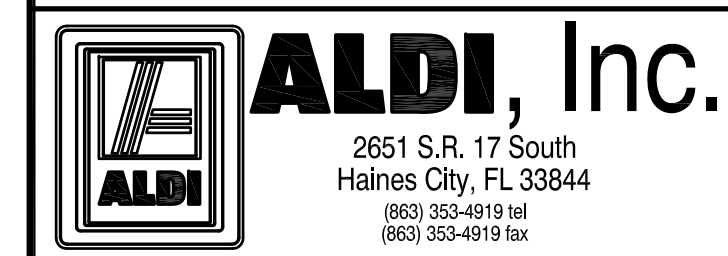
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ALDI Food Store #13
Southeast Corner of
Congress Ave. & Lake Park Ave
Lake Park, FL
Jurisdiction City of Lake Park
Project Name & Location:

Operations Plan

Drawing Name:	Project No.
Date: 08-22-14	2130757
Type: RHFD-V5	A-131
Drawn By: RJB	Drawing No.
Scale: 1/8"=1'-0"	

THIS DRAWING IS FOR GENERAL FIXTURING LAYOUT AND REFERENCE TO EQUIPMENT ONLY. ALL INFORMATION IS FOR ALDI OPERATIONAL USE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

LINEAR FOOTAGE OF BASE (SHADED AREAS):
VERSION 5.0 PROTOTYPE: 824'-4" L.F.

ASSUMED PALLET STORAGE:
VERSION 5.0 PROTOTYPE: 67 PALLETS

EXTERIOR FINISH SCHEDULE			
KEY	MATERIAL / MFG.	COLOR / NO.	NOTES
A1	GRAVEL STOP BY FIRESTONE	A1 - SIERRA TAN A1a - SILVER METALLIC	
A2	ELDORADO CEMENTIOUS STONE	PATTERN: CLIFFSTONE; COLOR: BARLEY	FILASTERS
A3	ELDORADO CEMENTIOUS STONE	PATTERN: CLIFFSTONE; COLOR: BARLEY	WAINSCOT (SPLIT FACE), WINDOW SILLS (SMOOTH FACE)
A4	STOREFRONT	ANODIZED ALUM.	RE: DWG. A602
A5	MEMBRANE ROOFING	GRAY	AT BACK OF ALDI LOGO SIGN TOWER, FOOD MARKET SIGN TOWER AND CANOPY ROOF - SEE SPECIFICATIONS APPENDIX 'B'
A6	METAL SOFFIT PANELS	SOLID PANELS - SEE SPEC.	RE: DWG. A301-A304
A7	EXTERIOR PAINT BY SHERWIN-WILLIAMS	PT-10 / CL-5	RE: DWG. A603
A8	FAUX WINDOW		RE: DWG. A602
A9	ALUMINUM COMPOSITE PANEL	A9 - BRIGHT SILVER A9a - SLATE GRAY	PROVIDE PANEL JOINTS AS SHOWN - AT ALDI LOGO SIGN FIELD AND FOOD MARKET SIGN FIELD. PROVIDE ONE PIECE TIGHT FIT EXTRUDED MOLDING INSTALLATION SYSTEM WITH CENTER REVEAL TRIM BETWEEN PANELS AND J TRIM AT PANEL EDGES. AT CANOPY FASCIA, PROVIDE 'CLIP AND CAULK' INSTALLATION SYSTEM.
A10	SMOOTH PRECAST STONE	COLOR TO MATCH DRYVIT #108 SANDLEWOOD BEIGE	WATER TABLE CAP STONE
A11	BLRD-2	PT-10 / CL-4	RE: DWG. A603
A12	BLRD-4	FACTORY FINISH - CHARCOAL	RE: DWG. A603
A13	GUARD RAIL	PT-11 / CL-5	RE: DWG. A3/A503, A603
A14	HANGER ROD	STAINLESS STEEL ROD AND TURNBUCKLE, PT-10 / CL-5 CLEVIS, KNIFE PL AND END PL	
A15	STARTER POST	GALVANIZED	
A16	DOCK LEVELER / SEAL AND BUMPERS	LEVELER - FACTORY FINISH / SEAL AND BUMPERS - FACTORY FINISH - BLACK	PROVIDE BRICK BEHIND DOCK SEAL IN LIEU OF CAST STONE SILL
A17	CONTROL JOINT	ALUMINUM REVEAL	MAX 30' OC RE: DWG. A504
A18	OVERFLOW SCUPPER	PT-10 / CL-5	RE: DWG. C3/A503
A19	FOOD MARKET SIGNAGE	BY SIGN VENDOR	14'-2 3/4" w. x 1'-6" h.
A20	ALDI TOWER SIGN	BY SIGN VENDOR	6'-3" w. x 7'-5 1/2" h. SEE DETAIL D1/A504; VERIFY SIGN SIZE PRIOR TO FRAMING OPENING
A21	STUCCO CORNICE	DRYVIT #112 SANDLEWOOD BEIGE	
A22	CAST STONE SILL	SEE SPEC	WATER TABLE TRIM
A23	STUCCO WALL FINISH	DRYVIT #108 MANOR WHITE	FIELD
A24	GATE SCREEN	PAINT TO MATCH SUNSET YELLOW	
A25	ALUMINUM CART RAILING	DECORATIVE RAIL IN PATTERN SHOWN, COLOR TO MATCH DRYVIT SANDLEWOOD BEIGE	
E1	EXIT DISCHARGE LIGHT	FACTORY FINISH	MOUNT @ 8'-0" A.F.F.
E2	WALL SCONCE	FACTORY FINISH	MOUNT @ 7'-6" A.F.F.
E3	EXTERNAL SIREN	FACTORY FINISH	MOUNT @ 12'-0" A.F.F.
E4	UTILITY METERING & C.T.	FACTORY FINISH	SEE ELECTRICAL DWGS
E5	EXTERIOR WALL PACK	FACTORY FINISH	MOUNT @ 12'-0" A.F.F.
E6	EXTERIOR DUPLEX RECEPTACLE	FACTORY FINISH	MOUNT @ 1'-6" A.F.F.
F1	FIRE DEPT. CONNECTION	FACTORY FINISH	SEE FIRE PROTECTION DWGS
M1	VENT GRILL	FACTORY FINISH	SEE MECHANICAL DWGS
P1	HOSE BIB	FACTORY FINISH	SEE PLUMBING DWGS
X	STOREFRONT KEY	ANODIZED ALUMINUM	RE: DWG. A602

COMMENTS FROM TOWN OF LAKE PARK REVIEW FROM MAY 8TH, 2014 SUBMITTAL

ITEM #11 DUMPSTER IS IN THE LOADING DOCK AREA PLEASE SEE FLOOR AND SITE PLAN.

ITEM #12 THE FLOOR PLAN AND ELEVATION INCLUDES THE FOLLOWING ITEMS FROM 78-332. FROM 1. CANOPY WRAPPING FRONT ENTRANCE 39'-0" ALONG THE SOUTH AND WEST ELEVATIONS FROM 2. BENCH IS PROVIDED ON CIVIL DRAWINGS FROM 4. ORNAMENTATION, FAUX WINDOWSHAVE BEEN ADDED ON THE SOUTH AND WEST ELEVATIONS, 2" REVEALS HAVE BEEN ADDED IN THE STUCCO THE FORM A DECORATIVE PATTERN WITH DECORATIVE DIAMONDS FORMED IN THE STUCCO.

ITEM #13 ORNAMENTATION, FAUX WINDOWSHAVE BEEN ADDED ON THE SOUTH AND WEST ELEVATIONS, 2" REVEALS HAVE BEEN ADDED IN THE STUCCO THE FORM A DECORATIVE PATTERN WITH DECORATIVE DIAMONDS FORMED IN THE STUCCO.

ITEM #14 PLASTERS PROJECT FROM ALL WALL SURFACES AND SEE FLOOR PLAN ON WHERE PORTIONS OF WALL PROJECT (SEE BELOW)

ITEM #16 PARAPET PROTECTS THE OF THE MECHANICAL UNITS SEE BUILDING SECTION.

ITEM #17 ALL WINDOWS (FAUX AND STOREFRONT) BREAK THE EXTERIOR SHELL OF THE BUILDING TO APPEAR AS REAL WINDOWS. ONLY THE LOW WINDOWS ARE REAL WINDOWS WERE THE FRAME CAN BE SEEN FROM THE INSIDE.

ITEMS #29 CARDINAL NOTATIONS HAVE BEEN ADDED TO THE DRAWINGS

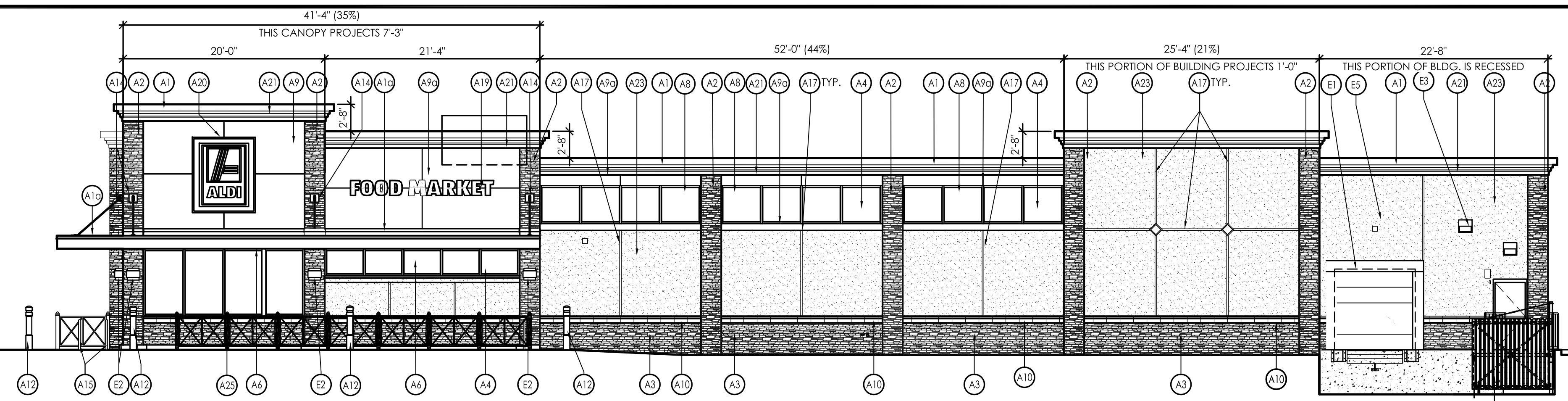
COMMENTS FROM TOWN OF LAKE PARK REVIEW FROM JULY 7TH, 2014 SUBMITTAL

ITEM #7 GATE HAS BEEN ADDED TO SCREEN DUMPSTER PLEASE SEE FLOOR PLAN AND ELEVATIONS

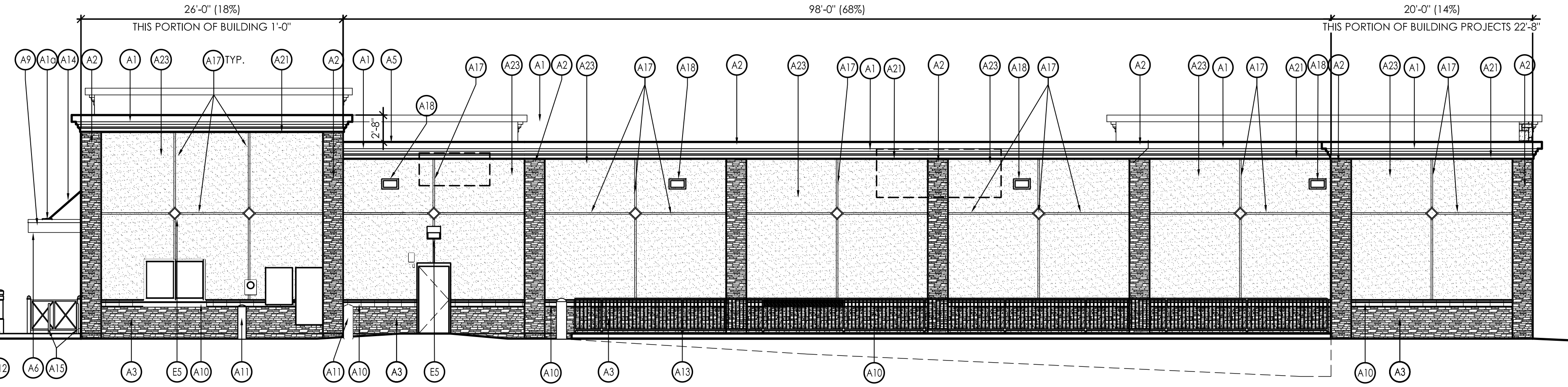
ITEM #10 PORTIONS OF THE FACADE OF THE BUILDING MAKING UP THE MIN. OF 20% HAVE BEEN PROJECTED OUT SEE ELEVATIONS

ITEM #12 SEE ADDITIONAL INFORMATION ON DRAWING A-202

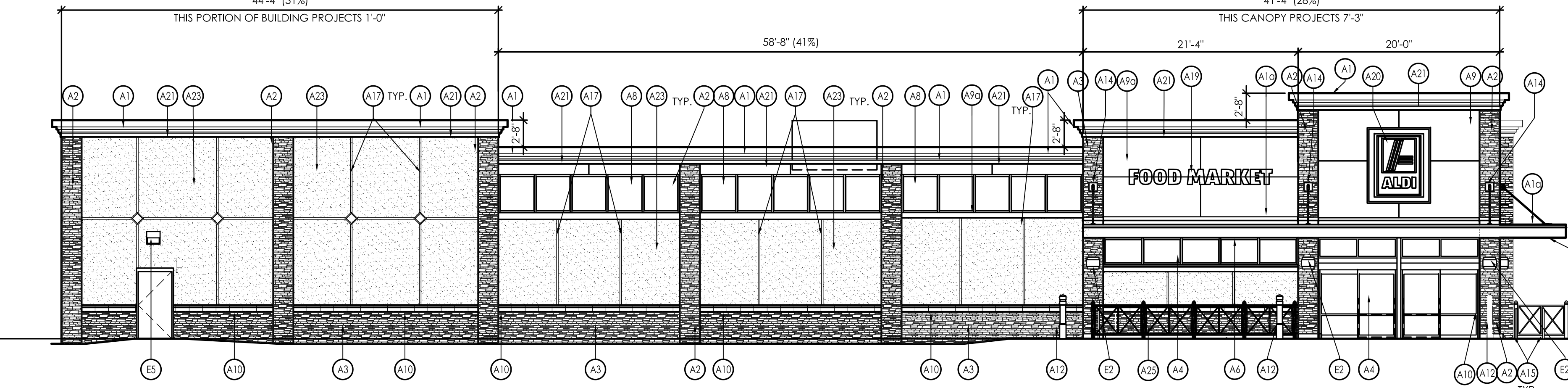
WE HAVE ALSO ADDED RAILING AROUND OUR CART CORRALS TO BE OF SIMILAR RAILING DESIGN AT THE PROPOSED RACE TRACK, AS WELL AS USED SIMILAR STONE PATTERN



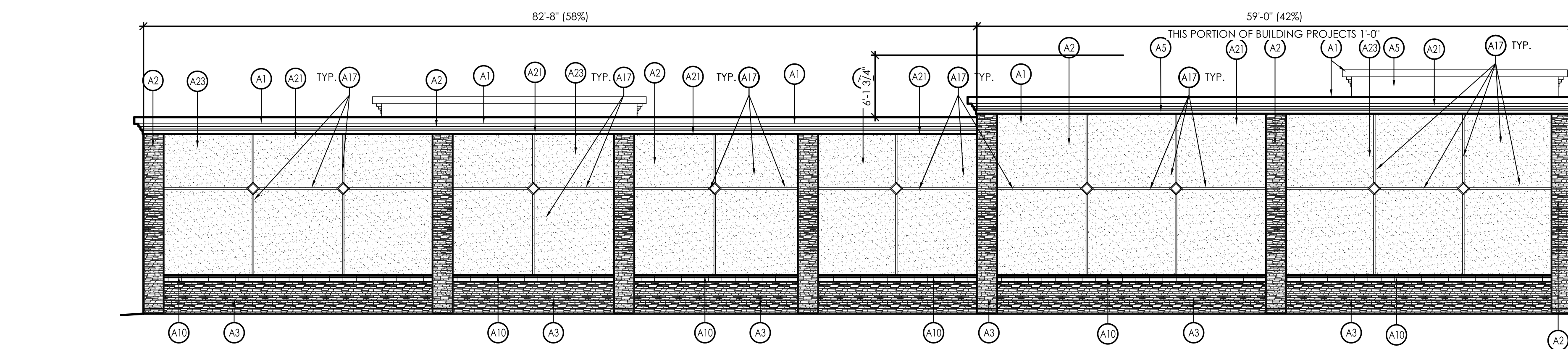
1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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	
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C	
D	
Revisions:	Date:
1	
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3	
4	
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MICHAEL E. LYNCH
FL # 10961

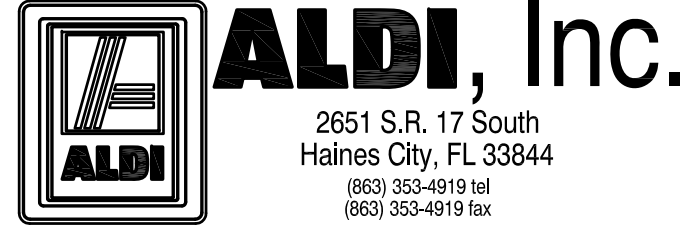
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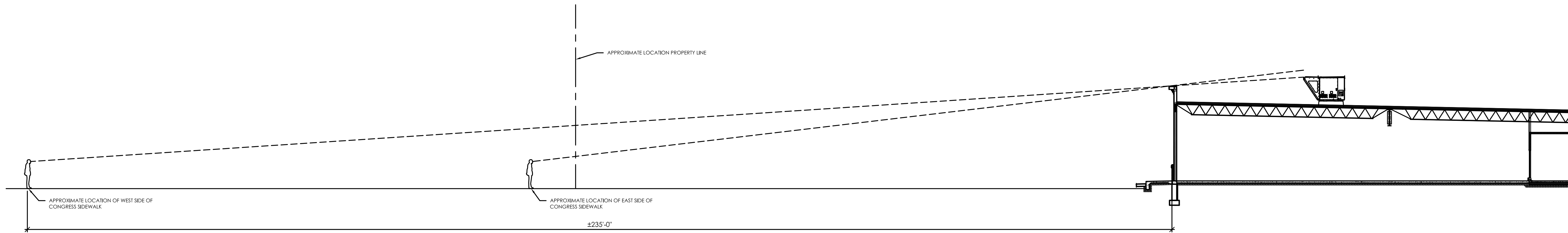


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ALDI Food Store #13
Southeast Corner of
Congress Ave. & Lake Park Ave
Lake Park, FL
Jurisdiction City of Lake Park
Project Name & Location:

BUILDING ELEVATIONS	
Drawing Name:	
Date: 08-22-14	Project No. 2130757
Type: RHFD-V5	
Drawn By: RJB	A-201
Scale: 1/8" = 1'-0"	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	

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MICHAEL E. LYNCH
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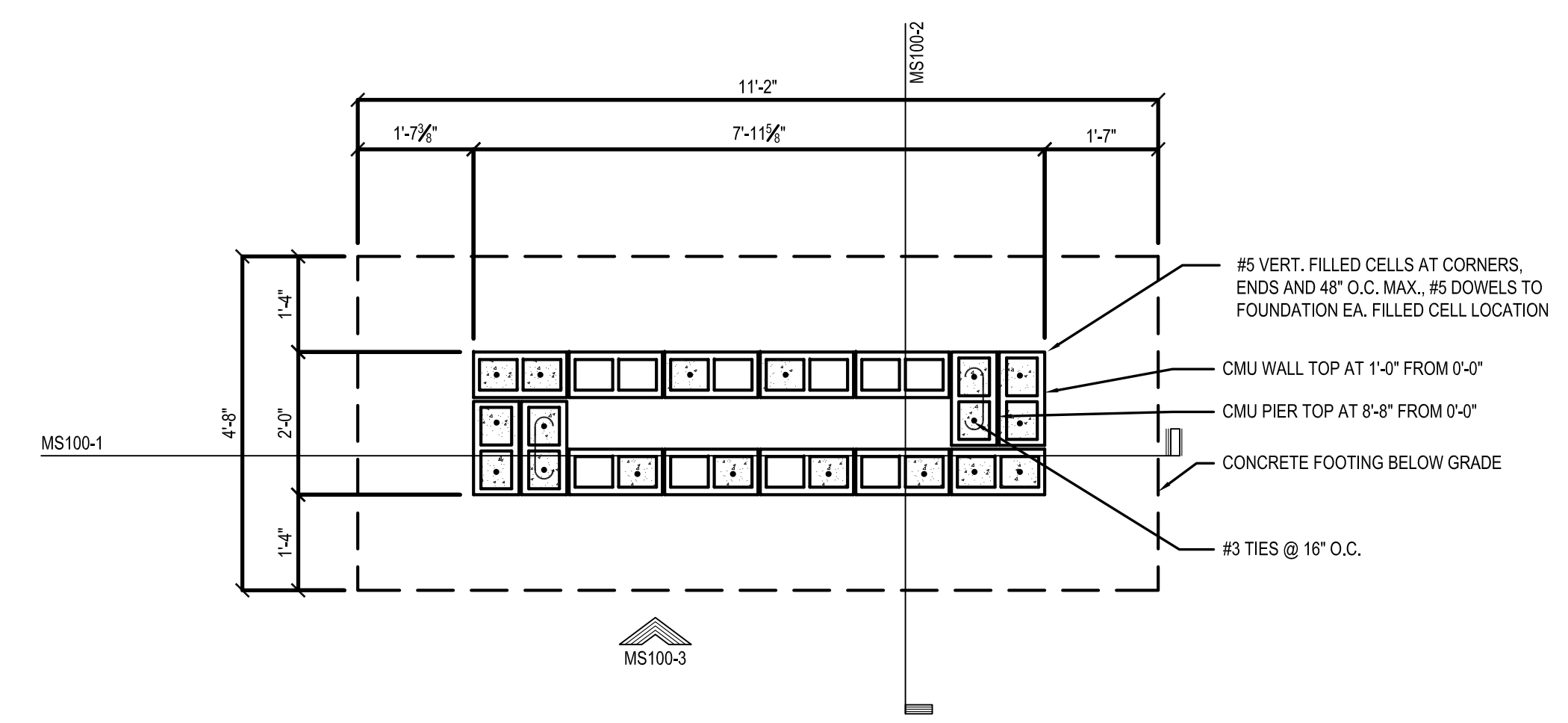
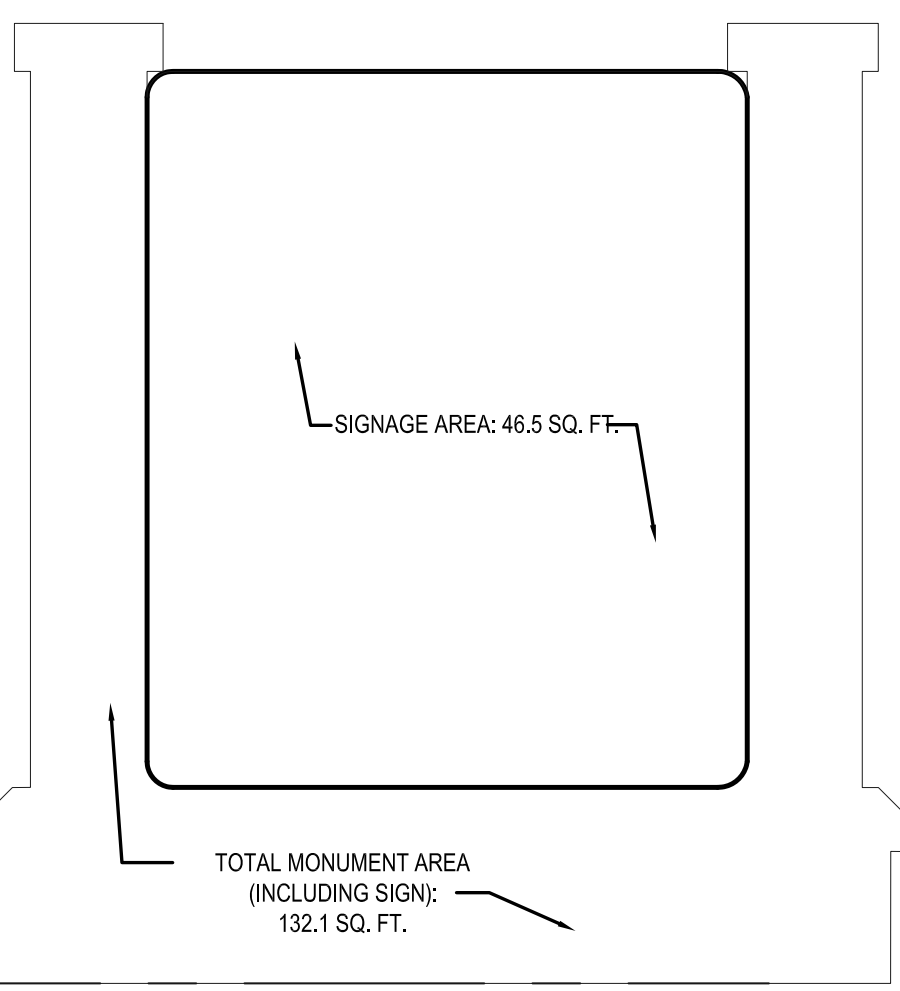
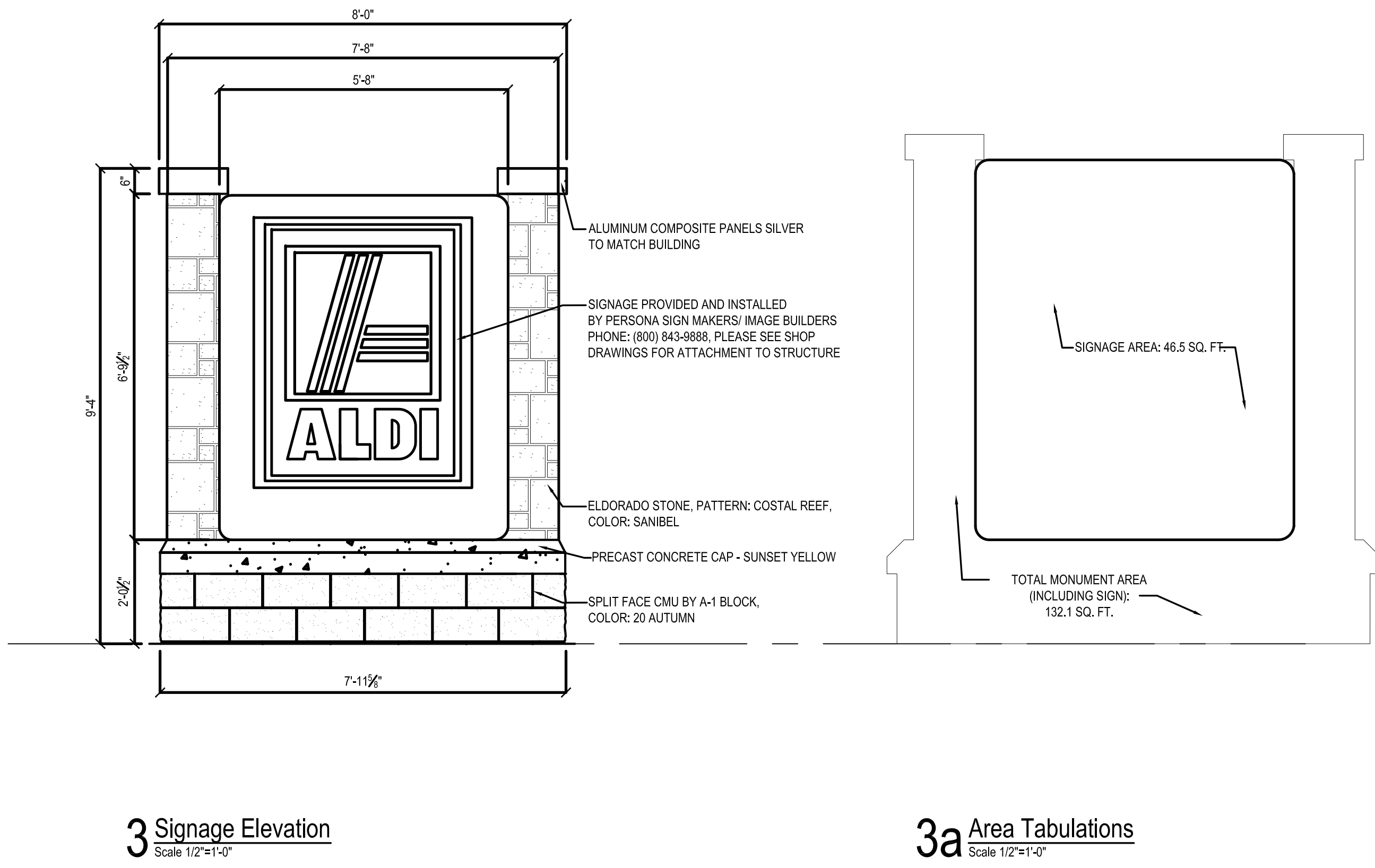
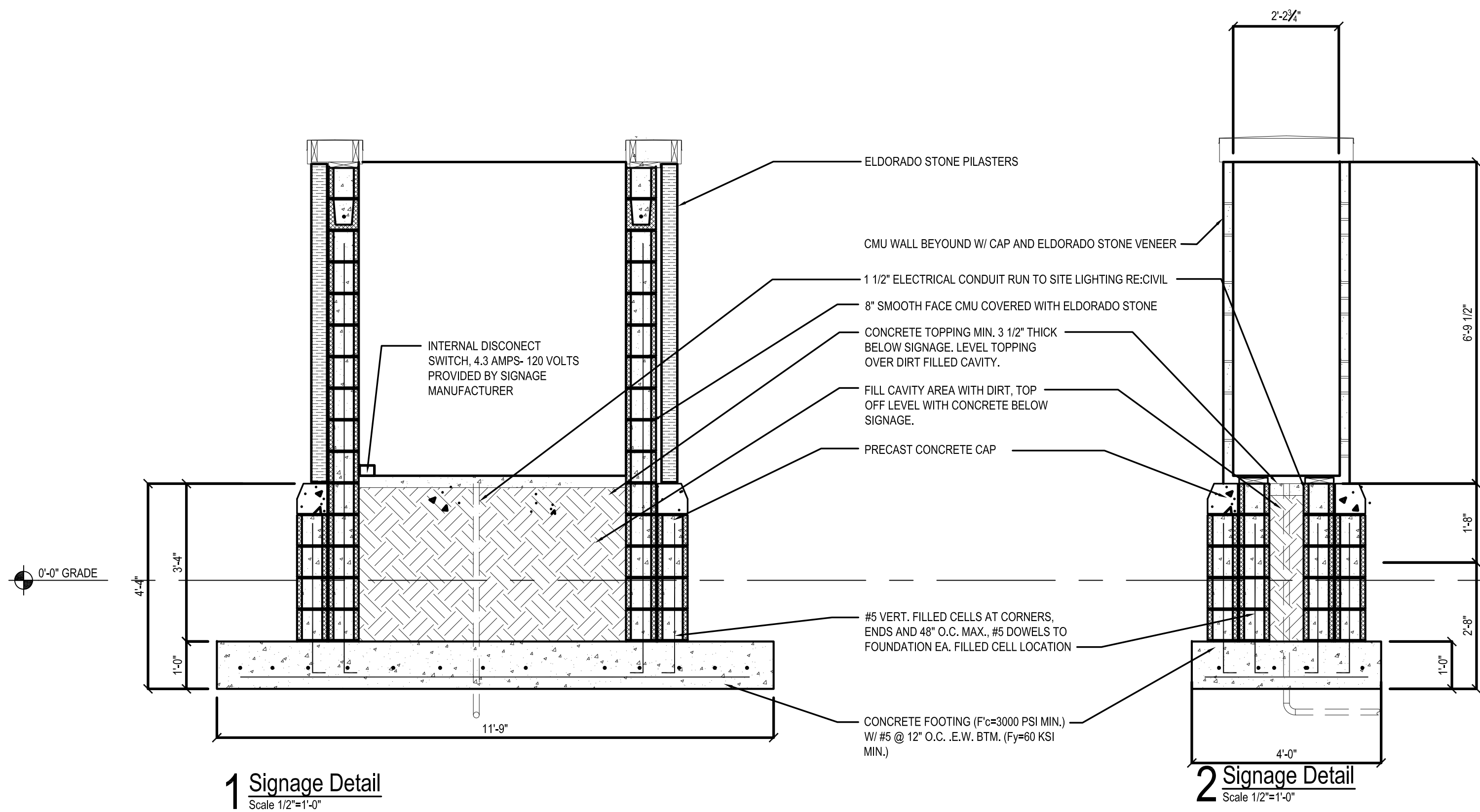
Cuhaci & Peterson
Architects Engineers Planners

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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.



GENERAL

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.

B. 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.

C. 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.

D. 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.

E. DRAWINGS ARE NOT TO BE SCALED.

F. THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT BETWEEN SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS.

G. 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

A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOILS REPORT:

NUTTING ENGINEERS
PROJECT # 1622
MARCH 2011

B. ALLOWABLE SOIL PRESSURE IS 2,500 PSF (REF. A, ABOVE).

REINFORCED CONCRETE

A. CONCRETE WORK SHALL CONFORM TO ACI-05 SPECIFICATIONS, CODES AND STANDARDS.

B. 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

C. CONCRETE COVER OVER REINFORCEMENT:
FOOTINGS
3"

D. 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)

A. ALL MASONRY WORK SHALL CONFORM TO ACI SPECS FOR MASONRY STRUCTURES (ACI 530.1-05).

B. 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.

C. BELOW GRADE, MORTAR SHALL BE TYPE M. ABOVE GRADE, M OR S. GROUT TO CONFORM TO ASTM C270.

D. 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".

E. 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.

F. ALL EPOXY ANCHORS USED IN MASONRY SHALL OCCUR AT GROUTED, REINFORCED CELLS AND BE HILTI HIT-HY150.

G. 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

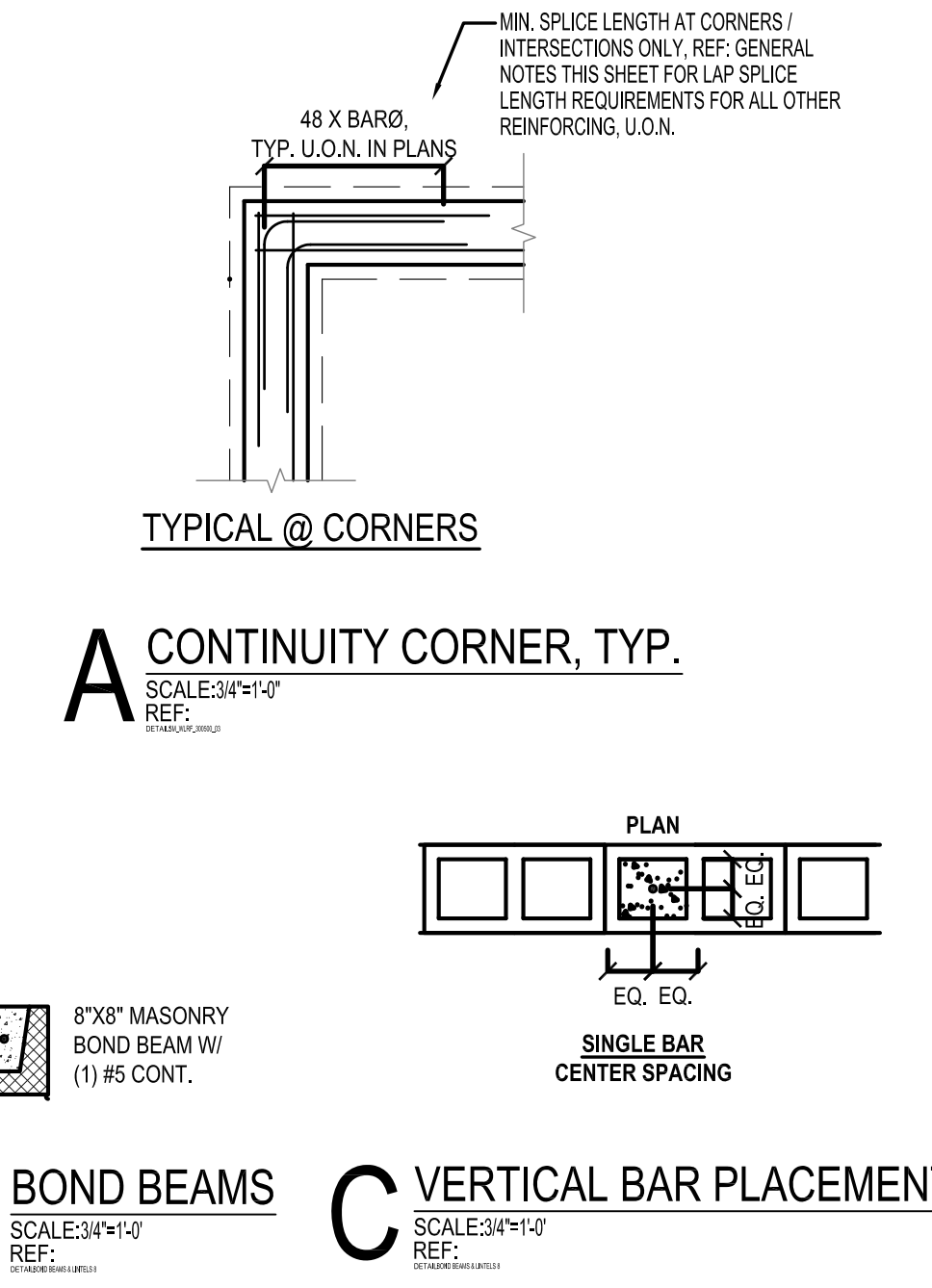
BAR SIZE	SPLICE LENGTHS
#5	30"

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

5. ALL REINFORCING HOOKS AND BENDS SHALL BE STANDARD ACI TYPE.
6. ALL WALL DOWELS SHALL MATCH REINFORCING SIZE AND QTY.

H. PAFS NOT PERMITTED AT MASONRY

I. 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

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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.