CIVIL SITE PLAN City of North Miami Beach, Miami-Dade County, Florida

EXISTING LEGEND CONCRETE ASPHALT PAVEMENT

PAVER BLOCKS OVERHEAD WIRES

VACUUM PRESSURE BREAKER FLORIDA POWER & LIGHT COMPANY

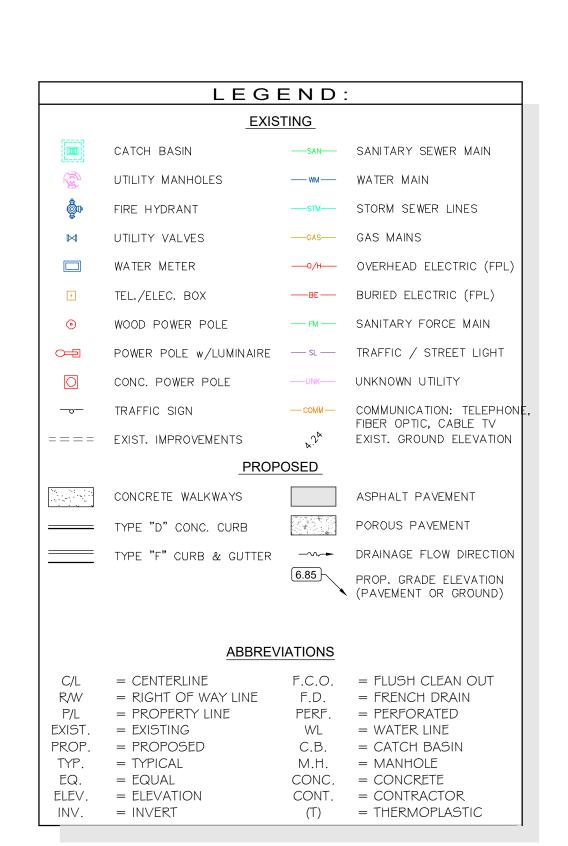
CENTERLINE OFFICIAL RECORDS BOOK

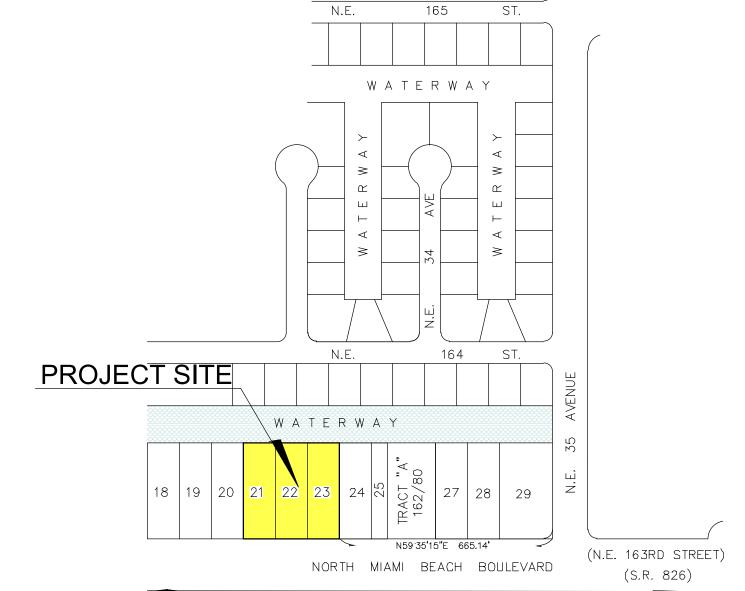
> TRAVERSE POINT (FOR FIELD INFORMATION ONLY) OAK TREE

UNIDENTIFIED TREE PALM TREE

ELEVATION

N:580463,73 STATE PLANE COORDINATE NORTHING E: 939869.68 STATE PLANE COORDINATE EASTING





A PORTION OF SECTION 15, TOWNSHIP 52 SOUTH, RANGE 42 EAST CITY OF NORTH MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA SCALE: 1"=300'

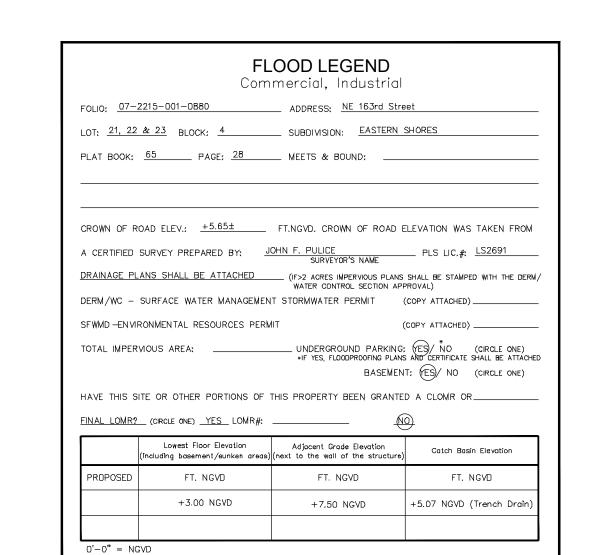
LEGAL DESCRIPTION:

LOTS 21, 22, AND 23, BLOCK 4 OF "EASTERN SHORES", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 65, PAGE 28, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. MIAMI-DADE COUNTY BENCHMARK: N-555; ELEVATION: 4.82 FEET.

- FLOOD ZONE: AE; BASE FLOOD ELEVATION: 8'; COMMUNITY #120656; PANEL 12086C0142L; MAP DATE: 09/11/09.

	SHEET INDEX							
SHEET No. TITLE								
C1	COVER SHEET							
C2	NOTES							
C3	NOTES							
C4	ADJACENT DRIVEWAY PLAN							
C5	STORMWATER POLLUTION PREVENTION PLAN							
C6	STORMWATER POLLUTION PREVENTION DETAILS							
C7	DEMOLITION PLAN							
C8	GEOMETRY, PAVING, SIGNAGE & MARKING PLAN							
C9	GRADING & DRAINAGE PLAN							
C10	WATER & SEWER PLAN							
C11 thru C13	PAVING, DRAINAGE, Water & SEWER DETAILS							
C14	VEHICLE LOADING SPACES EXHIBIT							

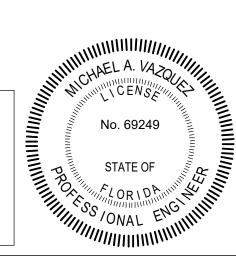


Always call 811 two full business days before you dig

PLANNING AND ZONING BOARD

This item has been digitally signed and sealed by Michael A. Vazquez, PE on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Job. No. 207007 Dwg. No. 3020-039 Sheet

05/24/2021

As Shown

201225SP

5/21/2021 3:23 PM

S.B.O.

Drawn By.

Cad. No.

Date Plotted:

Ref. Dwg.

Field Book.

THE PROPERTY OF
FORTIN, LEAVY, SKILES, INC
AND IS AN INSTRUMENT
OF SERVICE NOT TO BE

REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME. WITH DISABILITIES ACT (ADA), 2010 STANDARDS. IF ANY ITEM OF WORK IS NOT COVERED IN EITHER OF THOSE SPECIFICATIONS, IT SHALL BE CONSTRUCTED PER THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND

BRIDGE CONSTRUCTION. B. CONSTRUCTION SAFETY:

- I. ALL CONSTRUCTION SHALL BE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHALL BE STRICTLY OBSERVED.
- 2. CONSTRACTOR PERFOMING UNDERGROUND WORK SHALL COMPLY WITH ANY AND ALL REQUIREMENTS OF CHAPTER 556, FLORIDA STATUTES AND THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT".

C. TRENCH SAFETY ACT:

- I. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A.
- 2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5.0") ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID.
- a. A REFERENCE TO THE SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
- b. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
- c. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE

APPLICABLE TRENCH SAFETY STANDARDS.

3. WHERE A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2, TO THE ENGINEER PRIOR TO STARTING WORK. D.

D. SURVEY DATA:

- I. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
- 2. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
- 3. THE APPROXIMATE LOCATION OF ALL EXISTING UTILITIES SHOWN HEREON WERE DETERMINED FROM AVAILABLE "AS-BUILT" PLANS AND/OR FIELD LOCATION OF VISIBLE IMPROVEMENTS, SOME EXISTING UTILITIES MIGHT NOT BE SHOWN DUE TO THE LACK OF RECORDS AND/OR INACCESSIBILITY AND IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR LOCATION PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT OR CONSTRUCT THE PROJECT. UPON REQUEST, AN ELECTRONIC FILE OR GEOMETRIC CONTROL SHEET WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER OF RECORD.
- II. PRE-CONSTRUCTION RESPONSABILITY:
- A. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE APPROPRIATE PERMITTING AGENCIES, THE OWNER, AND THE ENGINEER OF RECORD, AFTER OBTAINING A CONSTRUCTION PERMIT FROM THE APPROPRIATE PERMITTING AGENCY.
- B. THE CONTRACTOR SHALL OBTAIN A "SUNSHINE CERTIFICATION NUMBER" AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
- C. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, MATERIAL, AND CONDITION OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
- D. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER
- CONTRACTOR SHALL LINCOVER ALL LINDERGROUND LITUITIES IN THE PATH OF THE WORK, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS, AND TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATION OF THESE UTILITIES, AND IF ANY CONFLICTS ARE APPARENT REPORT THE MEASUREMENTS TO THE ENGINEER OF
- F. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS SUNSHINE CERTIFICATION NUMBER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY
- H. ALL EXISTING IMPROVEMENTS THAT ARE TO BE DEMOLISHED MUST BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- I. CONTRACTOR SHALL COORDINATE SEQUENCE OF UTILITY CONSTRUCTION TO PREVENT UNDERMING THE EXISTING AND PROPOSED BUILDING FOUNDATIONS.

IV. TEMPORARY FAGILITIES: A. TEMPORARY UTILITIES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEE AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
- 2. OBTAIN CONSTRUCTION METER FOR ALL WATER USED ON JOB. ALL WATER USED CLEANING, TESTING, ETC. WILL BE PAID FOR THE CONTRACTOR. IF WATER CAN NOT BE METERED THEN IT WILL BE CALCULATED.

B. TRAFFIC REGULATION

- I. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDING WITH THE M.U.T.C.D. AND F.D.O.T.
- 2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- 3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTIME HOURS WITHOUT EXPRESS PERMISSION OF THE PERMITTING AGENCIES.
- III. SHOP DRAWING NOTES:
- A. SHOP DRAWINGS SHALL BE CHECKED AND APPROVED FIRST BY THE CONTRACTOR AND THEN ONE COPY SUMBITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS.
- B. ANY SYSTEM COMPONENT THAT IS ADDED DURING CONSTRUCTION MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD. SUCH APPROVAL REQUIRES THE SUBMISSION OF A SHOP DRAWING (ONE COPY ONLY) FOR EACH SYSTEM COMPONENT SHOP DRAWINGS WILL ALSO BE REQUIRED FOR ALL NON-STANDARD ITEMS.
- C. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
- V. PROJECT CLOSE OUT:

I. CERTIFICATION OF COMPLETION OF PROJECT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER OF RECORD TO THE APPROPRIATE APPROVAL AND PERMITTING AGENCIES UNTIL ALL THE REQUIREMENTS DESCRIBED HEREIN HAVE BEEN MET.

B. CLEANNING UP:

DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

- 2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END. THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY OR DRIVEWAY SIDEWALK AND LADSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- 3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN DRAINS, WATER COURSES, DITCHES, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- 4. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED AS REQUIRED BY THE APPROPRIATE PERMITTING

C. PROJECT RECORD DOCUMENTS:

- I. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED SURVEYOR, FOR ENGINEER
- 2. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF ALL WORK ITEMS COMPLETED.
- 3. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER OF RECORD THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
- 4. PRIOR TO PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES AND ALL DRAINAGE, WATER AND SEWER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER OF RECORD AND THE APPROPRIATE PERMITTING AGENCIES HAVE REVIEWED AND APPROVED THE "AS-BUILTS".
- 5. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO AND APROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING THE LIMEROCK BASE MATERIAL.
- 6. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING ASPHALT.

VI. EARTHWORK AND COMPACTION NOTES:

A. GENERAL

- I. QUALITY, CONTROL TESTING FOR STABILIZATION, BASE, PAVEMENT, COMPACTION AND MATERIALS SHALL BE IN ACCORDANCE WITH FLORIDA D.O.T. REQUIREMENTS, AND SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR. COPIES OF ALL TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER OF RECORD AS THEY ARE RECEIVED
- 2. EXISTING ON-SITE BASE MATERIAL SHALL NOT BE REUSED FOR BASE CONSTRUCTION, BUT MAY BE USED FOR BACKFILL AROUND UTILITY AND DRAINAGE LINES, FOR SUBGRADE CONSTRUCTION AND FOR GENERAL FILL IF NECESSARY.
- 3. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 40 AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO
- 4. ALL SUBGRADE UNDER SIDEWALK AREAS SHALL HAVE A MINIMUM OF 6" COMPACTED SUBGRADE TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- 5. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- 6. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.
- 7. SOD SHALL BE INSTALLED AND SPECIFIED AS SHOWN IN THE LANDSCAPED PLANS.
- 8. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.
- 9. NO MUCK BLANKET IS TO BE PLACED ON THE BOTTOM OF RETENTION AREAS OR SWALES.
- ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THREE (3) FEET OF FINISHED
- GRADE AREAS TO BE PAVED SHALL BE REMOVED. 2. SUITABLE BACKFILL SHALL BE MINIMUM L.B.R. 40 MATERIAL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR THREE (3) FEET BEYOND THE
- PERIMETER OF THE PAVING. 3. EROSION CONTROL TO BE PROVIDED BY THE CONTRACTOR PER DETAILS ON THE PLANS. VIII. STORM DRAINAGE NOTES:

A. GENERAL:

- I, EXISTING STORM DRAINAGE GRATES AND FRAMES AND MANHOLE COVERS AND RINGS THAT ARE TO BE REMOVED OR ADJUSTED, MAY BE REUSED ON THE SITE.
- I. THE EXISTING DRAINAGE SYSTEM SHALL BE CLEANED AND/OR GRADED TO ENSURE PROPER FLOW AND FUNCTION.
- 2. THE CONTRACTOR SHALL INSTALL FILTER CLOTH AT ALL CATCH BASIN GRATES ADJACENT TO THE AREA OF CONSTRUCTION UNTIL FINAL ACCEPTANCE OF THE IMPROVEMENTS.
- B. CONTRACTOR MAY UTILIZE ONE OF THE FOLLOWING MATERIALS, UNLESS OTHERWISE NOTED ON THE
- I. HIGH DENSITY POLYETHYLENE PIPE (H.D.P.E.)
- a. PIPE SHALL BE CORRUGATED SMOOTH BORE POLYETHYLENE PIPE (N-12 PRO LINK ULTRA) OR APPROVED EQUAL, MANUFACTURED IN CONFORMANCE WITH ASTM M294.
- b. PIPE SHALL HAVE BUILT-IN BELL JOINT WITH RUBBER GASKET IN CONFORMANCE WITH ASTM F477.
- c. PIPE COUPLING BANDS IF NEEDED SHALL BE SPLIT/SPLIT PREMIUM REQUIRING MAXIMUM PULL-APART RESISTANT.
- 2. CORRUGATED ALUMINUM PIPE (CAP):
- a. ALUMINUM PIPE SHALL CONFORM TO AASHTO M I 96 FOR CIRCULAR CORRUGATED PIPE OF AASHTO M2 I I FOR HELICALLY CORRUGATED PIPE, AND SECTION 945, AS PER FDOT STANDARD SPECIFICATIONS.
- b. MAKE FIELD JOINTS IN (CAP) WITH BANDS FABRICATED OF THE SAME ALLOYAS THE CULVERT PIPE AND CONFORMING TO THE REQUIREMENTS OF AASHTO M | 96.
- c. GASKET THE BANDED JOINTS WITH A NEOPRENE GASKET OF THE DESIGN INDICATED TO SECURE A SOIL-TIGHT OR WATERTIGHT JOINT.
- 3. POLYVINYL CHLORIDE PIPE (PVC):
- a. PLASTIC PIPE SHALL CONFORM WITH ASTM D 3034, TYPE PSM, POLYVINYL CHLORIDE (PVC) MATERIAL; BELL AND SPIGOT STYLE SOLVENT SEALED END JOINTS.
- 4. REINFORCED CONCRETE PIPE (RCP):
- a. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM C 76, CLASS III WITH WALL TYPE A; BAR REINFORCEMENT.
- b. ALL REINFORCED CONCRETE PIPES SHALL HAVE BELL AND SPIGOT END JOINTS, AS MODIFIED BY SECTION 941, FDOT STANDARD SPECIFICATIONS.
- c. ALL REINFORCED CONCRETE PIPES SHALL HAVE RUBBER COMPRESSION GASKET JOINTS AS PER ASTM C443, UNLESS OTHERWISE SPECIFIED.
- C. MISCELLANEOUS:
- I. TRENCH RESTORATION ON PAVED AREAS SHALL BE IN ACCORDANCE TO FDOT FY 2019-20 INDEX 125-001
- 2. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 IN 12" LAYERS MAX.
- 3. CATCH BASINS SHALL BE PRECAST MINIMUM 3000 PSI CONCRETE WITH REINFORCED STEEL PER ASTM A615.

- D INSTALLATION:
- PIPE SHALL BE PLACED ON STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO UNIFORM GRADE
- 2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL WELL TAMPED
- IN LAYERS NOT TO EXCEED SIX INCHES (6"). 3. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER. CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION SHALL NOT
- 1. THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER MANAGEMENT DISTRICT AT LEAST 24 HOURS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

BE ALLOWED WITH LESS THAN 24 INCHES OF COVER.

- VII. STORM DRAINAGE PRE-TREATMENT/EXFILTRATION SYSTEM:
- A. ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD. ANY IMPERMEABLE MATERIAL ENCOUNTERED IN THE EXCAVATION FOR THE DRAIN FIELD SHALL BE REMOVED AS DIRECTED BY THE ENGINEER OF RECORD.
- B. THE FILTER FABRIC SHALL BE WOVEN MONOFILAMENT TYPE D-3 PER F.D.O.T. SECTION 985 FY 2019-2020 EDITION, AND SECTION 985 OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2017 EDITION, OR APPROVED EQUAL. IT SHALL BE USED ON THE BOTTOM, SIDES AND TOP OF DRAIN FIELD DITCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 24 INCHES AND THE CONTRACTOR SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID BUNCHING OF THE FABRIC.
- C. PERFORATED PIPE WITHIN THE DRAIN FIELDS AND EXFILTRATION TRENCHES SHALL COMPLY WITH AASHTO CLASS II PERFORATIONS.
- D. PERFORATED PIPE SHALL TERMINATE FIVE FEET (5.0') FROM THE DRAINAGE STRUCTURE. THE REMAINING FIVE FEET (5.0') SHALL BE NON-PERFORATED PIPE.
- E. PIPES SHALL TERMINATE TWO FEET (2.0') FROM THE END OF THE TRENCH OR CONNECT TO ADDITIONAL CATCH BASINS.

IX. PAVING NOTES:

- I. ALL UNDERGROUND FACILITIES, INCLUDING WATER, SEWER, STORM DRAINAGE, SLEEVES FOR PUBLIC UTILITIES. AND IRRIGATION LINES HALL BE INSTALLED PRIOR TO COMPACTION OR ROAD SUBGRADE AND INSTALLATION OF BASE MATERIAL.
- 2. ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- 3. WHERE PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
- 3. EXISTING ASPHALT PAVEMENT THAT IS TO BE REMOVED SHALL BE TRUCKED OFF SITE BY THE CONTRACTOR FOR DISPOSAL AT AN APPROVED LOCATION.
- 4. ALL ACCESSIBLE ROUTES CANNOT EXCEED A RUNNING SLOPE OF 1:20 (5%) AND CURB CUT RAMPS AND RAMPS CANNOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%). RAMPS THAT EXCEED 6" IN RISE REQUIRES HANDRAILS. ALL CROSS SLOPES CANNOT EXCEED A SLOPE 1:50 (2%)

B. MATERIALS:

- BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI OOLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM (60% FOR LOCAL STREETS AND PARKING AREAS) AND A MINIMUM LIMEROCK BEARING RATIO 100.
- 2. ALL LIMEROCK BASE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 100, AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- 3. PRIME COAT AND TACK COAT SHALL MEET F.D.O.T. STANDARDS.
- 4. PAVEMENT SECTION IS TO CONSIST OF A 2" ASPHALTIC CONCRETE PAVEMENT F.D.O.T. TYPE SP-12.5, IN TWO 1" LIFTS.
- 5. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI AND SHALL BE REINFORECED WITH A 6" X 6" No. 10 GAUGE MESH, OR AS SHOWN ON THE PLANS.

C. INSTALLATION:

- I. LIMEROCK BASE MATERIAL SHALL BE IN THE COMPACTION THICKNESS SHOWN ON THE PLANS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- 2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
- 3. ASPHALTIC CONCRETE PAVEMENT SHALL BE IN THE THICKNESS SHOWN ON THE PLANS.
- 4. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH F.D.O.T. STANDARDS. 5. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- I. ALL SUBGRADE, LIMEROCK AND ASPHALT TEST REQUIRED SHALL BE TAKEN AT THE
- DIRECTION OF THE ENGINEER OF RECORD AND/OR THE PERMITTING AGENCY. 2. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING
- 3. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, AND TAKEN AS DIRECTED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCY. ALL TESTING COSTS SHALL BE PAID FOR THE

CONTRACTOR. X. CONCRETE PAVERS INSTALLATION:

TO FILL DEPRESSIONS IN THE BASE COURSE.

4. SWEEP OFF THE EXCESS SAND.

THIS LIMIT SHALL BE CORRECTED.

- A. SPREAD THE BEDDING MATERIAL EVENLY OVER THE BASE COURSE AND SCREED TO PLAN THICKNESS, NOT TO EXCEED A THICKNESS OF 1 1/2 INCH. DO NOT DISTURB THE SCREEDED BEDDING MATERIAL. ENSURE PLACEMENT OF SUFFICIENT BEDDING MATERIAL TO STAY AHEAD OF THE LAID CONCRETE PAVERS. DO NOT USE THE BEDDING MATERIAL
- B. LAY CONCRETE PAVERS IN THE PATTERN(S) SHOWN IN THE HARDSCAPE PLANS (BY OTHERS, NOT PART OF THE CIVIL PLANS) AND MAINTAIN STRAIGHT PATTERN LINES.
- C. JOINTS BETWEEN THE CONCRETE PAVERS, ON AVERAGE, WILL BE BETWEEN 1/16 TO
- D. FILL GAPS AT THE EDGES OF THE PAVED AREA WITH CUT OR EDGE CONCRETE PAVERS.
- E. WHEN UTILIZING BEDDING AND JOINT SAND: I. USE A LOW AMPLITUDE VIBRATOR CAPABLE OF 5,000 FOOT-POUNDS WITH 7-100 HZ FREQUENCIES TO VIBRATE AND COMPACT CONCRETE PAVERS INTO BEDDING
- 2. VIBRATE THE CONCRETE PAVERS, SWEEPING DRY JOINT SAND INTO THE JOINTS AND VIBRATING, UNTIL THE JOINTS ARE FULL. DO NOT VIBRATE WITHIN 3 FEET OF THE UNRESTRAINED EDGES OF THE CONCRETE PAVERS.
- 3. AT THE END OF EACH DAY, ALL WORK WITHIN 3 FEET OF LAYING FACE MUST BE LEFT FULLY COMPACTED, WITH SAND-FILLED JOINTS.
- F. LEAVE A FINAL SURFACE ELEVATION OF CONCRETE PAVERS OF 1/8 TO 1/4 INCH ABOVE ADJACENT DRAINAGE INLETS, CONCRETE COLLARS OR CHANNELS. G. DO NOT PERMIT THE FINAL SURFACE ELEVATIONS OF THE PAVERS TO DEVIATE MORE
- BETWEEN ADJACENT PAVERS. H. WHEN SETTING CONCRETE PAVERS ON A CONCRETE SLAB, USE MORTAR SET BEDDING 3/4" MINIMUM THICKNESS.

THAN 3/8 INCH UNDER A 10 FOOT LONG STRAIGHTEDGE, OR MORE THAN 1/8 INCH

- XI. INSPECTION NOTES:
- A. THE ENGINEER OF RECORD SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE BEFORE INSTALLATION, TESTING AND BACKFILLING OF ANY STORM DRAINAGE COMPONENTS.
- b. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AT LEAST 24 HOURS
 - PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:
- STORM DRAINAGE. 2. EXFILTRATION TESTS (WATERTIGHT SYSTEMS).
- DENSITY TESTS (WATER & SEWER). 4. LAMPING REPORT (STORM DRAINAGE).
- 5. TELEVISED INSPECTION OF ALL STORM DRAINAGE. SANITARY SEWER.

II. FINAL

- WATER SYSTEM. SUBGRADE; SUBMIT AND HAVE APPROVED DENSITIES PRIOR TOPLACEMENT OF ROCK
- 9. LIMEROCK BASE; SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT. 10. ASPHALTIC CONCRETE.
- XII. SIGNING AND MARKING NOTES:
- A. ALL PAVEMENT MARKINGS AND SIGNS SHALL COMPLY WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE STANDARD SPECIFICATIONS OF THE FLORIDA
- DEPARTMENT OF TRANSPORTATION, AND THE DADE COUNTY PUBLIC WORKS MANUAL. B. ASPHALT CONCRETE SURFACE: ALL PAVING MARKINGS TO BE THERMOPLASTIC PER FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- C. PAVER SURFACES: MARKINGS TO BE COLOR PAVERS. COLOR OF PAVERS TO BE AS SPECIFIED ON PLANS. PAVERS MATERIAL TO BE AS SPECIFIED IN THE LANDSCAPE
- D. INSTALL REFLECTIVE PAVEMENT MARKERS PER F.D.O.T. STANDARDS, OR AS SHOWN ON
- E. ALL SIGNS SHALL BE HIGH-INTENSITY GRADE REFLECTIVE SHEETING, MOUNTED ON A
- BREAK AWAY POST ASSEMBLY PER F.D.O.T. SPECIFICATIONS. F. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT
- MARKINGS AND SIGNS CONFLICTING WITH THE PROPOSED ROADWAY CONSTRUCTION. G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL PAVEMENT MARKINGS AND SIGNS AS SHOWN IN THE PLANS AND APPLICABLE TRAFFIC DESIGN
- H. CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT.
- I. SIGN ASSEMBLY LOCATIONS SHOWN IN THE PLANS WHICH ARE IN CONFLICT WITH STREET LIGHTING UTILITIES, DRIVEWAYS, PEDESTRIAN RAMPS ETC. MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER OF RECORD AND/OR APPROVAL AGENCIES' INSPECTOR.
- XIII. UNDERGROUND STRUCTURE INSTALLATION NOTE:
- A. EXCAVATE I 2 INCHES BELOW TO DESIGN BEARING LEVEL AND BACKFILL TO THE REQUIRED GRADE USING FREE DRAINING GRAVEL (PEA ROCK OR ROCK #57). THE SURFACE OF THE GRAVEL SHALL BE TAMPED TO ENSURE A FIRM BEARING SURFACE. A GEOTECHNICAL ENGINEER IS TO OBSERVE THE GRAVEL PLACEMENT AT THE END OF THE EXCAVATION PROCESS.

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES "AS-BUILT STANDARDS" FOR WATER AND SEWER PROJECTS

PIPELINE:

- I. SHOW STATION NUMBER EVERY LOO FEET ON PLAN AND PROFILE INDICATING WHERE PIPE BEGINS AND ENDS. ON PLAN, SHOW DIMENSION OF STREET FROM R/W TO R/W WITH CENTER-LINE. SHOW
- OFFSET DIMENSION FROM ONE OF THE ABOVE TO PIPELINE AT EACH STATION, VALVE AND FITTING, 2. ON PROFILE, SHOW ELEVATION OF WATER MAIN AND SEWER FORCE MAIN AT EACH 100-FOOT STATION. AT EACH VALVE AND FITTING SHOW STATION NUMBER AND ELEVATION. INCLUDE SEWER MANHOLE RIM AND INVERT ELEVATIONS, LATERAL INVERT ELEVATION AT CLEAN-OUT. FINISHED
- GRADE ELEVATIONS TO BE MARKED AT EVERY 100-FOOT STATION. 3. INDICATE IF PIPE IS IN PRIVATE PROPERTY LOCATING BASE-LINE SURVEY LINE AND LENGTH AND WIDTH OF EASEMENT FROM R/W LINE. ALSO INDICATE EASEMENT FOR SERVICE LINES, LATERALS
- 4. INDICATE MANUFACTURER, SIZE, MATERIAL, TYPE OF JOINT, PRESSURE CLASS OF ALL PIPE INSTALLED.
- ALSO INDICATE MATERIAL OF ANY EXISTING PIPE CONNECTING TO. 5. SHOW TYPE OF JOINT RESTRAINT INSTALLED ON PIPE, VALVES OR FITTINGS WHERE APPROPRIATE (THRUST-BLOCKS, RETAINER GLANDS, RESTRAINED JOINT PIPE, ETC.). ALSO INDICATE LENGTH OF

RESTRAINT OF PIPE FROM THESE VALVES OR FITTINGS.

6. INDICATE SIZE, LOCATION AND MATERIAL OF ALL SERVICE LINES INCLUDING STATION NUMBERS AND ELEVATIONS, INCLUDE METER LOCATIONS BY DIMENSIONS FROM CENTER-LINE OF PIPE, VALVES. ETC., TO CENTER-LINE OF METER.

VALVES:

- I. INDICATE SIZE, TYPE (GATE, BUTTERFLY, CHECK, PLUG, ETC.) OF VALVES. ALL VALVES ARE TO BE LOCATED WITH DIMENSIONS FROM AT LEAST TWO PERMANENT REFERENCE POINTS. INDICATE WHICH SIDE OF BUTTERFLY VALVE THE OPERATING NUT IS LOCATED.
- 2. INCLUDE ENLARGEMENT DETAIL AT SCALE I "= I O' FOR ALL VALVE CLUSTERS AND METER/BACKFLOW

BLOCK OF EACH SHEET.

- I. PLANS SHOULD BE OF THE SAME FORMAT AS ORIGINAL APPROVED PLANS, IN 24" X 36" SHEETS ONLY AND DONE IN AUTOCAD. INCLUDE ADDRESS, NAME OF PROJECT AND SHEET NUMBER IN TITLE
- 2. WHEN CORRECTING A SET OF DESIGN DRAWINGS TO REFLECT AS-BUILT INFORMATION, DESIGN INFORMATION IS TO BE ERASED AND REPLACED WITH AS-BUILT INFORMATION.

CENTER-LINE OF PIPE ON PLAN AND PROFILE, I.E. GAS, FPL, WATER, SEWER, TELEPHONE, ETC. AND

CATCH BASINS, SIDEWALKS, MANHOLES, UTILITY POLES, ETC., INCLUDING STATION NUMBERS AND ELEVATIONS. 4. WHEN NEW WATER OR SEWER LINE CROSSES ANY UTILITY LINE, INDICATE ON PLAN (INCLUDING

STATION NUMBER) AND ON PROFILE (INCLUDING STATION NUMBERS AND ELEVATIONS OF EACH).

3. SHOW LOCATION OF ALL UNDERGROUND AND ABOVE GROUND FACILITIES WITHIN 10 FEET OF

- 5. WHEN BOTH WATER AND SEWER LINES ARE INSTALLED, A SEPARATE SET OF MYLAR "AS-BUILT" DRAWINGS IS REQUIRED FOR EACH.
- PROPERTY LINE SURVEY AND MATCH LINES WITH CORRESPONDING PAGE NUMBERS, ETC. 7. PROVIDE AREA LOCATION SKETCH (MAP), LEGAL DESCRIPTION OF THE PROPERTY TO BE SERVED AND SCOPE OF PROJECT TABULATION I.E. (INSTALLATION OF (XXX) L.F. OF 8" D.I.P WATER MAIN;

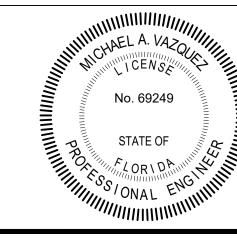
G. WHEN WATER AND/OR SEWER LINE ARE INSTALLED IN PRIVATE PROPERTY, OVERALL SITE PLAN OF

- (XX) F.H. ASSEMBLIES; (XX) 2" DOMESTIC SERVICES; (XX) 1-1/2" IRRIGATION SERVICE; ETC. 8. "AS-BUILT" DRAWING TO BE THE SAME SCALE AS PERMIT DRAWING (PLAN = L IN. = 20 FT., PROFILE = L IN. = 20 FT. (HORIZ.) AND LIN. = 2 FT. (VERT.)
- 9. FOR LARGE PROJECTS WITH MORE THAN ONE PLAN AND PROFILE PAGE, PROVIDE OVERALL PLAN OR KEY MAP IN A SCALE APPROPRIATE TO SHOW ENTIRE PROJECT ON ONE (I) SHEET. MATCH LINES AND SHEET NUMBERS OF PLAN/PROFILE SHEETS TO BE INDICATED IN LARGE TYPE AT APPROPRIATE LOCATIONS ON OVERALL PLAN SHEET. SCALE MAY BE SMALLER THAN 1:20 FOR THIS PLAN I.E. (1:30, 1:40, 1:50).
- IO. THE FOLLOWING STATEMENT IS REQUIRED TO BE INCLUDED AND SIGNED ON "AS-BUILT" DRAWING: THE INFORMATION SHOWN HEREON WAS COLLECTED BY REPRESENTATIVES OF THIS CORPORATION DURING CONSTRUCTION OF THIS PROJECT AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IS COMPLETE, TRUE AND CORRECT.



This item has been digitally signed and sealed by PROPERTY IS REQUIRED SHOWING CONFIGURATION OF ALL PIPELINES WITHIN EASEMENTS, INDICATING | Michael A. Vazquez, PE on the date adjacent to the seal.

> Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



THE PROPERTY OF ORTIN, LEAVY, SKILES, I

AND IS AN INSTRUMENT

REPRODUCED IN WHOLE OR IN PART WITHOUT

THE EXPRESS WRITTEN

PERMISSION OF SAME.

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2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.

3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2, VALVE BOXES.

4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT THE POINT OF ENTRY,

5, ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS,

6, ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.

7, FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY THE MIAMI-DADE COUNTY FIRE

DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS. 8. CONTRACTOR MUST CALL M-DWASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL

BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION, CONTACT ONE CALL CENTER 48 HRS PRIOR TO

9. CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THIS DEPARTMENT. ALL OTHER REQUIREMENTS OF

THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.

10. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT.

a, EASEMENTS, IF REQUIRED,

b, CONTRACTOR'S WAIVER AND RELEASE OF LIEN

c. ABSOLUTE BILL OF SALE.

d. i. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT). II. DEVELOPER'S CONTRACT BOND (LE., CONTRACT AGREEMENT).

e. "RECORD DRAWINGS" PRINTS (24"x36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED FLORIDA SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (No. OF PRINTS: 3-FOR WATER, 4-FOR

IN ACCORDANCE WITH SEC. 01775 "MAGNETIC MEDIA SUBMITTAL". f. H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS.

q. BILL OF SALE SKETCH (8½"x11") FOR WATER AND SEWER, SEPARATELY.

11, ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY, THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.

GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of final CAD files required.

12. AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MDWASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST,

13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES, UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SIZE RANGE SPECIFIED ABOVE, THE TAPPING SLEEVE AND

TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR	
UNDER THE SUPERVISION OF THE INSPECTOR,	
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1, AT THE COMPLETION OF ANY WATER AND SEWER JOB, EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL

a. RECORD DRAWING PRINTS WHICH HAVE BEEN SIGNED AND SEAL BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER, (QTY, OF PRINTS, AS REQUIRED BY THE DEPARTMENT,)

2. "RECORD DRAWING" FORMAT:

a. 24"x36" PRINTS

c. CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLAN COORDINATES NAD 83 FLORIDA EAST

d. THE WORD "RECORD DRAWING" IN LARGE LETTERS

e, TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION.

f, PREFERRED SCALE TO BE 1" = 40' HORIZONTALLY AND 1" = 4' VERTICALLY.* g. STREET NOMENCLATURE.

h, SEPARATE RECORD DRAWING FOR WATER AND SEWER,

I. SEPARATE WATER AND SEWER PROFILE. j. STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E., ç, ş, ETC,) OR AS SHOWN ON

DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN.

k. EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT.

I. IDENTIFY ALL CONTROL LINES (I.E. BLDG, LINE, PROPERTY LINE, R/W, ETC.) m, ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY "AS-BUILT" INFORMATION

REFLECTED IN DRAWINGS,

3. WATER "RECORD DRAWINGS" MUST INCLUDE:

a. PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF SERVICES, HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES, UTILITY CROSSINGS SHALL BE CLEARLY IDENTIFIED AND LOCATED.

b, PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TP PLAN,

4, SEWER "RECORD DRAWINGS" MUST INCLUDE:

a, PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF GRAVITY SEWER, LOCATION OF LATERALS WIYH REFERENCE TO MANHOLE AND CLEANOUTS.

b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON

ALL RECORD DRAWINGS SUBMITTALS. c. PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE

INVERT, LABEL NORTH, SOUTH ETC.) AND STATION STARTING AT 0+00 AT DOWNSTREAM MANHOLE. 5. FORCE MAIN "AS-BUILTS" SAME AS WATER MAIN,

LOCATED WITHIN THE PROJECT,

6. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLAN COORDINATES (CURRENT READJUSTMENT) OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND

* OTHER SCA	ALE MAY BE PERMIT	TED, BUT MUST BE	APPROVED			
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Delivering Excellence Every Day					_	_
WATER \$ SEWER DEPARTMENT					SHEET 2	2 OF 2

NOTE:

ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND PROP. WATER & FORCE MAINS AND FITTINGS TO BE **RESTRAINED PER GS 2.0**

NOTE:

ALL PROPOSED SEWER

1.0, & SS 3.1 AS APPLICABLE.

LATERALS TO COMPLY WITH

STANDARD DETAILS GS 1.5, SS

NOTE: **ALL WATER & SEWER CROSSINGS PER GS 1.5**

RER-DERM WATER-SEWER GENERAL NOTES

I. A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE TOP OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF ONE OF THE FOLLOWING IS MET:

A) THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.

B) THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE. C)THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.

2.A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THIS DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF ONE OF THE FOLLOWING IS MET:

A) THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.

B)THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.

3.AIR RELEASE VALVES SHALL BE PROVIDED AT HIGH POINTS OF NEW FORCE MAIN SANITARY SEWERS.

4.GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE C-900 PVC OR DUCTILE IRON PIPE. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE:

A) RESIDENTIAL LAND USES. F IFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE

HEAD ABOVE THE CROWN OF THE PIPE. B)NON-RESIDENTIAL LAND USES. TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY. BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE

HEAD ABOVE THE CROWN OF THE PIPE. C)ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.

4 THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED. OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.

FORCEMAIN SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE DUCTILE IRON, C-900 PVC, HDPE OR REINFORCED CONCRETE PRESSURE SEWER PIPES.

7.THE MAXIMUM ALLOWABLE EXFILTRATION/LEAKAGE RATE OF FORCEMAIN SANITARY SEWERS SHALL

A)DUCTILE IRON, C-900 PVC, HDPE AND PVC PIPE. THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.

B)REINFORCED CONCRETE PRESSURE PIPE. HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2)

C)ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.

8. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.

9.IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS.

IO. IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL APPLY: A) ALL WORK IN THE AREA SHALL FOLLOW ALL APPLICABLE SAFETY REQUIREMENTS (E.G., OSHA, ETC.)

AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES. B)IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION (EMRD). THE

EMRD CAN BE CONTACTED AT (305) 372-6700. C)IF CONTAMINATED SOILS AND/OR BURIED SOLID WASTE MATERIAL IS EXCAVATED DURING CONSTRUCTION, THEN THEY REQUIRE PROPER HANDLING AND DISPOSAL IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. BE ADVISED THAT THE LANDFILL OWNER/OPERATOR IS

THE FINAL AUTHORITY ON DISPOSAL AND MAY HAVE REQUIREMENTS BEYOND THOSE PROVIDED BY HEREIN. IF DISPOSAL WITHIN A MIAMI-DADE COUNTY OWNED LANDFILL (CLASS I LANDFILL) IS APPROPRIATE AND SELECTED, PLEASE CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF SOLID WASTE MANAGEMENT AT (305) 594-6666 FOR INFORMATION.

D)THE REUSE OF CONTAMINATED SOILS THAT ARE NOT RETURNED TO THE ORIGINAL EXCAVATION REQUIRES PRIOR APPROVAL OF A SOIL MANAGEMENT PLAN FROM THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION. THE EMRD CAN BE CONTACTED AT (305) 372-6700.

PUMPS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS FOR CLASS I, GROUP D, DIVISION I LOCATIONS (EXPLOSION PROOF).

12. THE CONTRACTOR IS ADVISED THAT A TREE REMOVAL/RELOCATION PERMIT MAY BE REQUIRED PRIOR TO THE REMOVAL AND/OR RELOCATION OF TREE RESOURCES. PRIOR TO REMOVING OR RELOCATING ANY TREES, THE CONTRACTOR SHALL NOTIFY THE TREE AND FOREST RESOURCES SECTION OF DERM AT

(305) 372-6574 OR VIA E-MAIL AT: TFRS@MIAMIDADE.GOV, OR CONTACT THE MUNICIPALITY WITH TREE ORDINANCE JURISDICTION TO OBTAIN ANY REQUIRED PERMITS. THOSE TREES NOT INTERFERING WITH THE CONSTRUCTION SHALL BE PROTECTED IN PLACE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 24-49.5 OF THE MIAMI-DADE CODE.

13. PLEASE NOTE THAT THE DEMOLITION, REMOVAL, AND/OR DISTURBANCE OF EXISTING UNDERGROUND UTILITIES THAT CONTAIN ASBESTOS- CEMENT PIPES (ACP) ARE SUBJECT TO THE PROVISIONS OF 40 CFR-61 SUBPART M. THEREFORE, PURSUANT TO THE PROVISIONS OF 40 CFR-61-145, A NOTICE OF DEMOLITION OR ASBESTOS RENOVATION FORM MUST BE FILED WITH THE AIR QUALITY MANAGEMENT DIVISION (AQMD) OF DERM, AT LEAST TEN (10) WORKING DAYS PRIOR TO STARTING OF ANY WORK. NOTE THAT THE BACKFILLING AND BURIAL OF CRUSHED ACP WOULD CAUSE THESE LOCATIONS TO BE CONSIDERED ACTIVE DISPOSAL SITES AND SUBJECT TO 40 CFR-61.154, AND 40 CFR-61.151 A YEAR AFTER PROJECT COMPLETION

EXISTING STANDARD OPERATING PROCEDURES, AS WELL AS APPLICABLE FEDERAL, STATE AND LOCAL REGULATORY CRITERIA, MUST BE FOLLOWED AND IMPLEMENTED TO MINIMIZE ANY POTENTIAL RELEASE OF FUGITIVE EMISSIONS, ESPECIALLY DURING PROJECT CONSTRUCTION ACTIVITIES. THE AQMD CAN BE CONTACTED VIA EMAIL AT ASBESTOS@MIAMIDADE.GOV OR 305-372-6925.

REV. 4/30/2018

BE:

BACKFLOW PREVENTER NOTES:

PRIOR TO THE INSTALLATION OF THE BACK FLOW PREVENTER DEVICE, APPROVAL FROM THE APPLICABLE BUILDING AND ZONING DEPARTMENT AND FIRE DEPARTMENT SHALL BE REQUIRED.

PRIOR TO THE INSTALLATION OF ANY WATER METER THE BACK FLOW PREVENTER DEVICE MUST BE INSPECTED AND RELEASED BY THE APPLICABLE BUILDING AND ZONING DEPARTMENT.

INSTALLATION OF THE BACK FLOW PREVENTER DEVICE SHALL BE PERFORMED BY A CERTIFIED PLUMBING CONTRACTOR

ENGINEER'S NOTES:

THE WATER AND/OR SEWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PUBLISHED AND CURRENT STANDARDS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND UNDER THE INSPECTION OF THEIR PERSONNEL.

2. THE APPROXIMATE LOCATION OF ALL UTILITIES SHOWN HEREON WERE DETERMINED FROM "AS-BUILT" PLANS AND/OR FIELD LOCATION AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION.

3. CONTRACTOR TO VERIFY LOCATION. ELEVATION. MATERIAL AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. AFTER OBTAINING LOCATION FROM SUNSHINE AND OTHER UTILITY COMPANIES. AND PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL UNCOVER ALL KNOWN UNDER-GROUND UTILITIES IN THE PATH OF THE WORK. WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS AND SHALL TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATIONS OF THESE UTILITIES, AND IF ANY CONFLICTS ARE APPARENT, REPORT THE MEASUREMENTS TO THE ENGINEER-OF-RECORD.

4. CONTRACTOR TO CONTACT ENGINEER-OF-RECORD IF EXISTING UTILITIES ARE NOT SHOWN ON THE PLANS.

5. ALL LANDSCAPING AND IRRIGATION DISTURBED SHALL BE REPLACED WITH LIKE KIND.

6. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A.

7. ALL BRANCH VALVES ARE TO BE TIED TO TEES.

8. ALL REQUIRED BACTERIOLOGICAL SAMPLING POINTS SHALL BE INSTALLED BY THE CONTRACTOR AND ALL BACTERIOLOGICAL TESTS PERFORMED BY HIM PER THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF H.R.S.

9. ALL REQUIRED FLUSHING, CLEANING PRESSURE TESTING AND BACTERIOLOGICAL TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE CONTRACTORS BID FOR THE WORK.

IO. SHOP DRAWINGS SHALL BE CHECKED AND APPROVED BY THE CONTRACTOR AND THEN ONE COPY SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS. SHOP DRAWINGS NEED TO BE REVIEWED AND APPROVED BY M-DWASD PLANS REV. UNIT BEFORE PRE-CONSTRUCTION MEETING CAN BE SCHEDULED (TYPICAL).

II. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT OR CONSTRUCT THE PROJECT. AN ELECTRONIC FILE OR GEOMETRIC CONTROL SHEET WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER.

12. ALL PAVEMENT RESTORATION SHALL COMPLY WITH THE REQUIREMENTS OF MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, F.D.O.T. FLORIDA BUILDING CODE, AND/OR THE SPECIFIC MUNICIPALITY STANDARDS.

13. LOCATION OF THE PUBLIC WATER SYSTEM MAINS SHALL COMPLY WITH THE LATEST FLORIDA ADMNSTRATIVE CODE (F.A.C.) RULE 62-555.314.

ENGINEER'S CERTIFICATION REQUIREMENTS

I. SURFACE RESTORATION, PAVEMENT REPLACEMENT, SIDEWALK REPLACE, TRENCH BACKFILL AND COMPACTION SHALL COMPLY WITH MIAMI-DADE STANDARD DETAILS GS 1.9, SS 1.9, A 1.0, A 1.1, AND A4.0, M-DCPWD STANDARD DETAIL R21.1 AND THE APPLICABLE CURRENT FDOT STANDARDS, M-DCPWD AND CITY OF AVENTURA PUBLIC WORKS.

2 . THE WATER AND/OR SEWER STAKEOUTS, PIPE COVER AND/OR INVERT ELEVATIONS AND DETERMINATION DETERMINATION OF EASEMENT GEOMETRY SHALL BE PERFORMED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR AT THE TIME OF INSTALLATION.

THE ENGINEER-OF-RECORD SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE BEFORE INSTALLATION, TESTING AND BACKFILLING OF ANY LINES.

4. IMMEDIATELY UPON COMPLETION OF THE TESTS, THE ENGINEER-OF-RECORD SHALL BE PROVIDED WITH COPIES OF THE REPORTS SHOWING SATISFACTORY RESULTS OF THE FOLLOWING:

I. BACTERIOLOGICAL TESTING (WATER)

2. PRESSURE TESTING (WATER & FORCE MAINS).

3. BACKFLOW PREVENTOR TESTS (WATER). 4. EXFILTRATION TESTS (SEWER).

5. DENSITY TESTS (WATER & SEWER). 6. LAMPING REPORT (SEWER).

7. TELEVISED INSPECTION OF ALL GRAVITY SANITARY SEWER MAINS AND LATERALS.

5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS. 6. CONTRACTOR SHALL PROVIDE THE ENGINEER-OF-RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS.

SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR, FOR ENGINEER'S REVIEW AND FILE.

7. CERTIFICATION OF COMPLETION IN ACCORDANCE WITH PLANS \$ SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER-OF-RECORD TO THE APPROPRIATE PERMITTING AGENCIES UNTIL ALL THE REQUIREMENTS DESCRIBED HEREIN HAVE BEEN MET.

HEALTH DEPARTMENT NOTES

(NOT A PART OF MD-DWASD NOTES OR APPROVAL)

WATER MAIN HORIZONTAL SEPARATIONS:

SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAINS AND AND STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.

BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.

GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAINS IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.

10 FT. TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM

WATER MAIN VERTICAL SEPARATIONS:

SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES ABOVE. OR AT LEAST 12 INCHES IF BELOW'

PRESSURE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS. WASTEWATER FORCE MAINS OR RECLAIMED WATER.

*NOTE: CENTER I-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY

GENERAL NOTES & SPECIFICATIONS FOR WATER MAIN INSTALLATIONS

All materials and construction under this project 11. The Contractor shall be responsible for verifying al shall be in strict accordance with the requirements of locations, dimensions, elevations and the locations of al underground structures and utilities prior to the start of construction. The locations shown on the plans are not he City of North Miami Beach Engineering Department (NMB) and/or Dade County Public Works Department puaranteed accurate or correct by the known utility (DCPWD) and/or the Florida Department of ransportation (FDOT) and shall conform to the standards and specifications available and on file with the department. As a minimum requirement, the

customer donation projects,

12. Thrust blocks shall be provided at all bends, tees, and plugs in accordance with NMB standard details.

with megalug retainer glands or approved equal, meeting NMB requirements. All valves are to be unless specific written exception is issued or required by an authorized representative of NMB. restrained with retainer glands. Detector tape shall be installed 18' above the 14, Pipe installation, cleaning, flushing, testing, and disinfecting, as per NMB and State of Florida Department of Health and Rehabilitative Services Standards for the installation of water mains by

> 15. Prelímínary cleaníng of all ⊮ater mains 12" and arger to be accomplished by use of a poly-pig per

outside normal working hours (8:00 a.m. to 5:00 p.m.) aturdays and Sundays and holidays excluded and arrangements for inspections outside normal working. hours must be made a minimum of 48 hours in advance of the construction activity. 7. All trenches to be over-excavated a minimum of

6" to provide for installation of rock bedding in Contractor MUST call the NMB Inspection Division accordance with NMB Standards. and all other applicable permitting agencies to arrange for a Pre-Construction Meeting at least 72 hours prior 18. Surface restoration, pavement replacement, sidewalk replacement, trench backfilling and compaction shall comply with the applicable current NMB, DCPWD

Drinking Water Facility Into Service. The Engineer of

record shall provide NMB with a signed and sealed

pressure test report certifying pressure test results.

POTABLE WATER MAINS

GENERAL NOTES

19, All gate valves to be resilient seat per AWWA-C509. he permitting agency shall be in accordance with their

Where field conditions require, as determined by considered as complete until final acceptance of the NMB, the water main shall be polyethylene encased in accordance with AWWA-C105. system by the department and until the following locuments are received and approved by NMB: The Contractor shall be responsible for providing Easements, if required (whether by deed or plat NMB with HRS Letter of Clearance to Place a Publi

Absolute Bill of Sale Contractor's Letter of Warranty (i.e. Letter Agreement Contractor's Maintenance Bond (for 1 year) As-Built 3 ml mylar 24" x 36" showing specific locations, depths, etc. of all water facilities as located by a licensed surveyor, along with two (2) prints of the

As-Built" which have been signed and sealed by a registered surveyor or Engineer of record and endorsed by the Contractor in accordance with NMB standards,). All new connections from existing NMB mains to

tandards of the AWWA shall apply.

centerline of water mains and services,

approved by NMB,

All water main line valves shall be installed

Fire hydrants and service valves shall be installed

complete with 6' riser pipes and No. 2 valve boxes.

All water meters up to 2' will be installed by

department personnel providing the appropriate charges have been pre-paid. Provision of service pipes.

backflow preventers, valves and meter or pits will be in

Fire hydrant requirements (number and location)

NMB personnel will inspect all facilities approved by

he Engineering Department, All other requirements o

Work performed under this project will not be

Contractor's Waiver and Release of Lien

e inspected by NMB forces prior to backfill,

shall be as required by the Dade County Fire

o proposed start of construction

standards and requirements.

suitably recorded)

Department or the appropriate fire agency with installations in accordance with NMB standards.

accordance with construction plans and specifications

complete with 10' riser pipes and No. 3 valve boxes.

Minimum cover over water mains shall be 3'-0"

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT

REQUIREMENTS PER DEPARTMENT OF HEALTH

WATER MAIN HORIZONTAL SEPERATIONS

1. Separations shall be measured outside edge to outside 2. Between water mains and, storm sewers, storm water force mains, or reclaimed water lines, SHALL be 3 ft. minimum. 3. Between water mains and vacuum type sewer

4. Gravity or pressure sanitary sewers, wastewater force mains or reclaimed water preferably 10 ft, and at least 6 ft. MAY be reduced to 3 ft. Where bottom of water main is at least 6 inches above top of sewer.

preferably 10 ft. and at least 3 ft. minimum.

5, 10ft, of any part of on—site sewer treatment or disposal system. WATER MAIN VERTICAL SEPARATIONS

1. Separations between water mains and gravity sewer, vacuum type sewer, or storm sewers, to be preferably 12 inches, or at least 6 inches above, or at least 12 inche

2. Pressure sanitarv sewer, wastewater or storm water force main, or reclaimed water, at least 12 inches above * Note: Center 1 — full length of water main pipe at

crossings, alternatively arrange pipes so joints are at

least 3 feet from joints in vacuum, storm or storm force

mains. At least 6 feet from joints in gravity of pressure

sewers, wastewater force mains or reclaimed water. TRENCH PROTECTION

Trench excavation protection shall be accomplished as required by the provisions of Part 1926, Subpart P, Excavations, Trenching and Shoring of the Occupational Safety and Health Administrations Standards and

		_									
									BEACH		
09/04	DELETE DERN NOTES/ADD DEPT. OF HEALTH NOTES A.V.	K.R.									
					PO	TABLE	WATE	R MA	AINS		
						GENE	RAL N	OTES	5		
Date	Revisions	Appr, by	Date:	July	2000	Scale:	N.T.S.	Dwg:	F101c	Fìg;	300A

The following activities on existing water services and/or existing water mains such as:

 Cut and plugs Water main offsets

and distribution system.

 Interconnections Service installations/retirements/service transfers

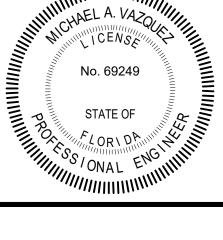
• Hydrant installations/retirements/relocations • Any work that may affect the quality and/or quantity of WASD's water, transmission

Shall be permormed by a licensed contractor under the supervision of WASD licensed operator and WASD donations inspector under the scope and jurisdiction of the contractor's right-of-way permit. Prior to any work being done, the licensed contractor shall coordinate with WASD donation inspector for the scheduling of licensed operator to be present for proposed activity.

All elevations on the plans or referenced in the specifications are based on National Geodetic Vertical Datum of 1929 (NGVD).

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PERMISSION OF SAME. 13. All new fittings at reaction points shall be fitted 6, The Contractor is responsible for the cost of inspections for any construction activities occurring

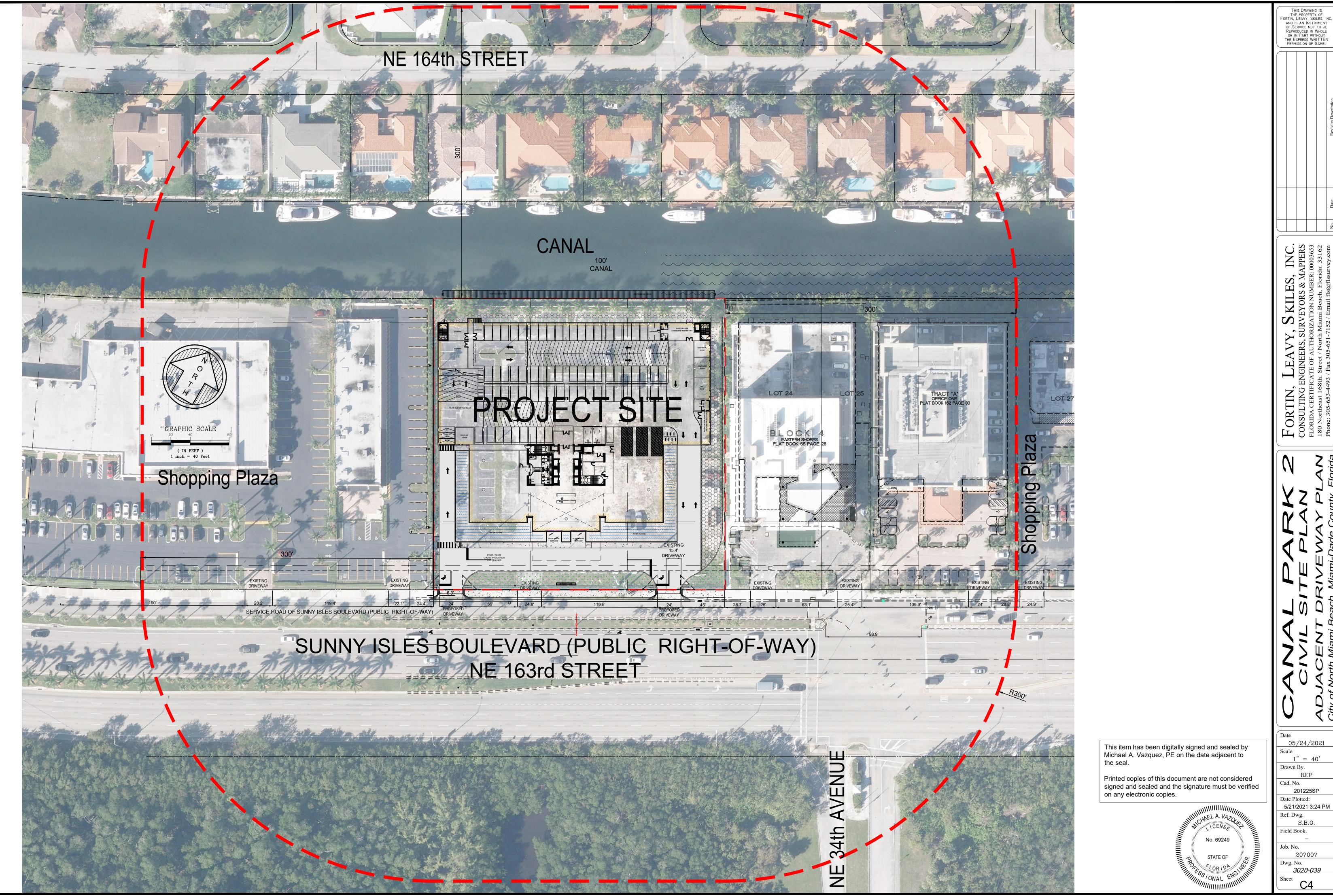
Appr. by Date: July 2000 Scale; N.T.S. Dwg: F101b Fig: 30

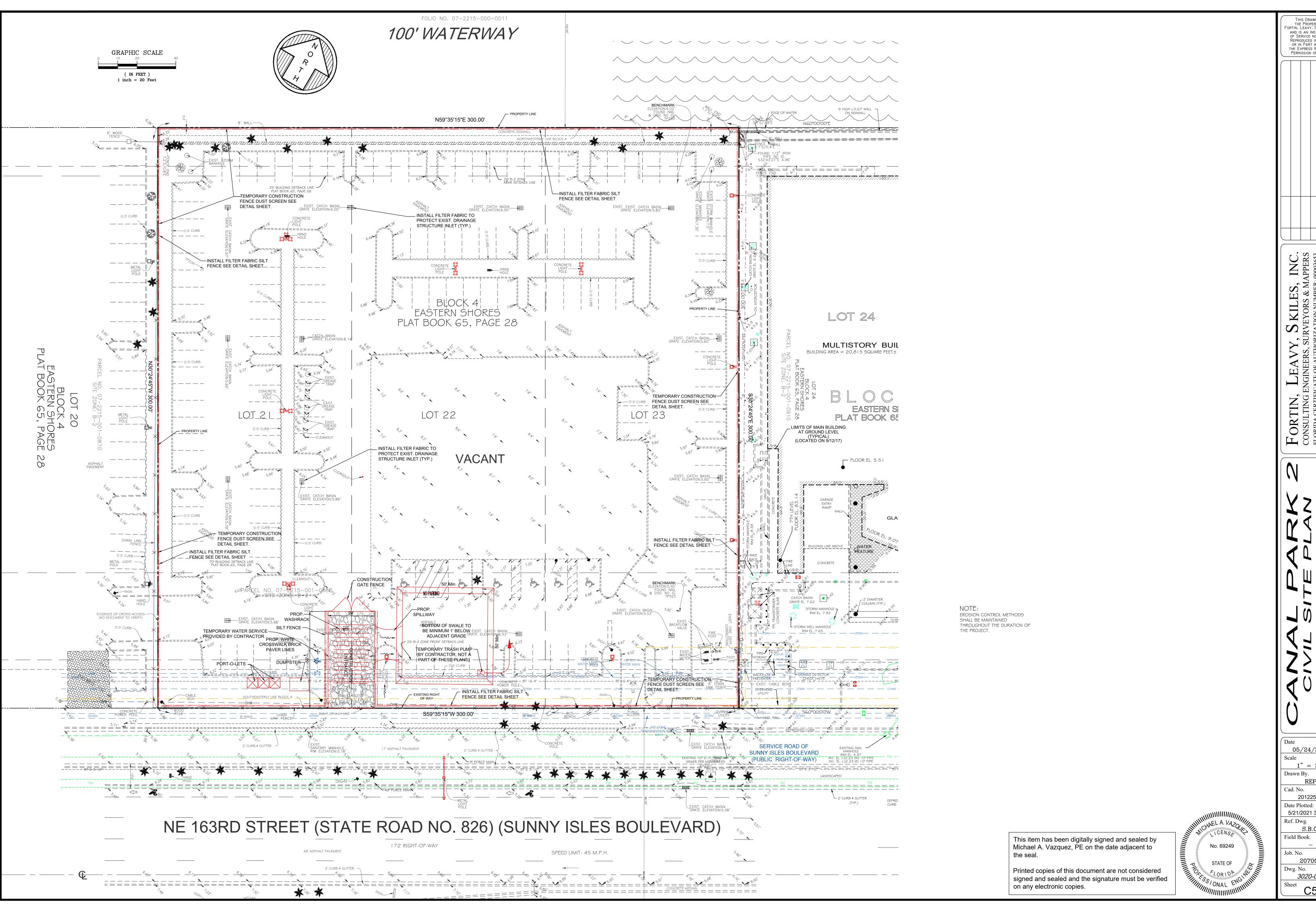
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Scale

207007 3020-039 Sheet





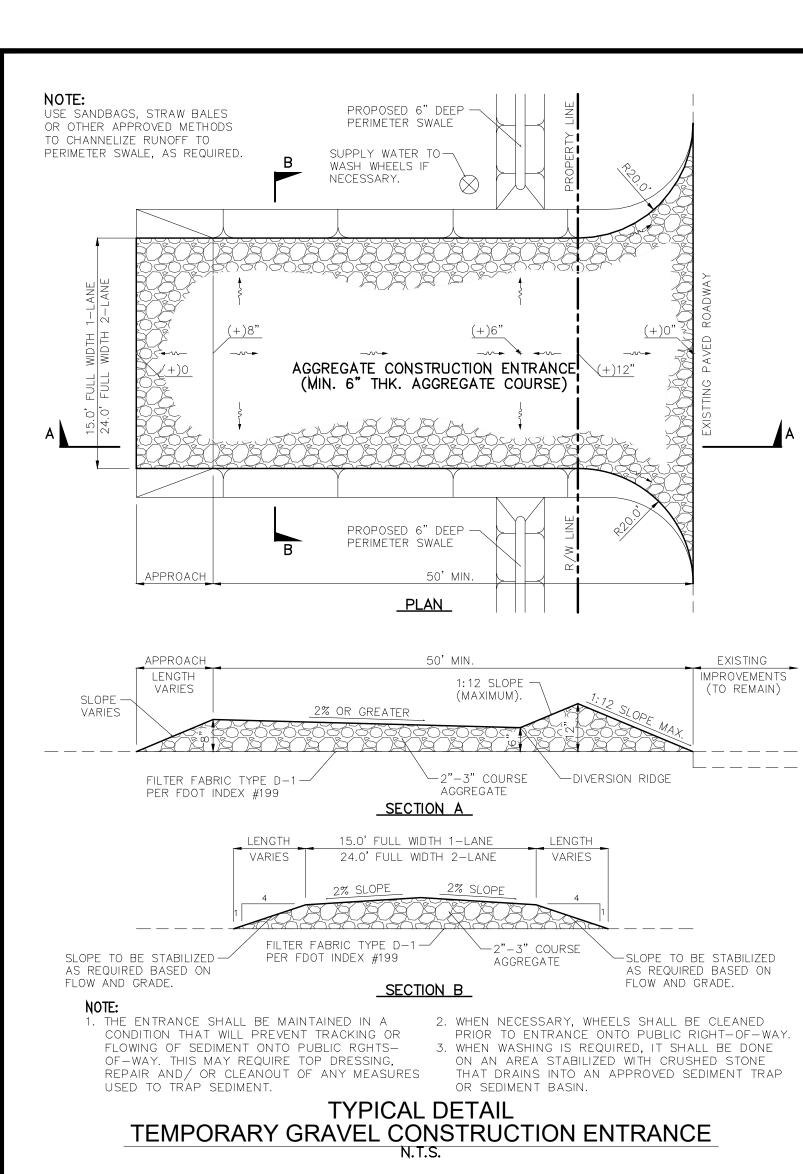
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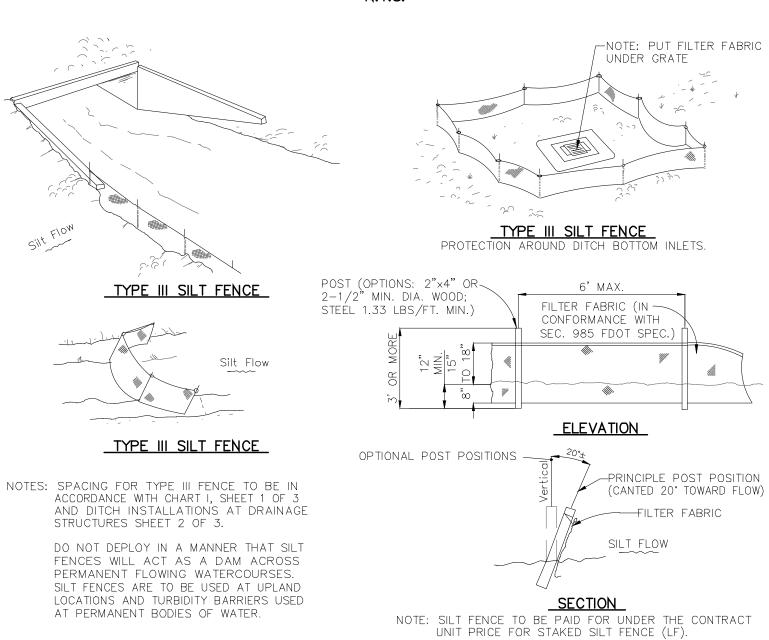
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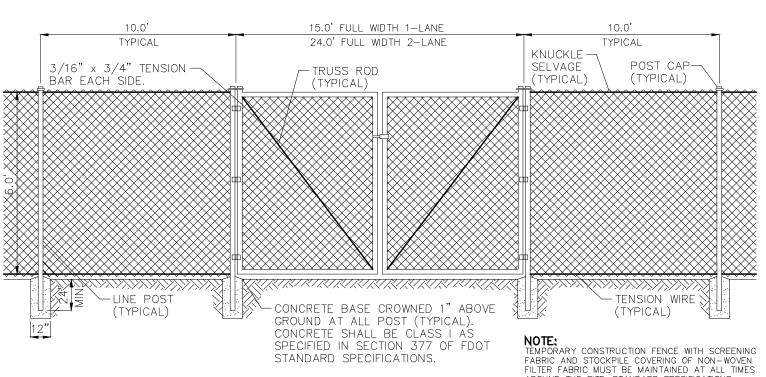
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207007 3020-039







CHAIN LINK FENCE MATERIAL SPECIFICATION: GATE MATERIAL SPECIFICATION: CHAIN LINK: 6' HG. x 2 3/8" DIAMOND x 11.5 GAUGE KK

MATERIAL WEIGHT

CRYSTALLINE MELT POINT

SHADE VALUE

TIES: 12ga x 7 STEEL, 4 PER POST

LINE POST SPACING: 10'

GATE FRAME: 1 3/8", WALL THICKNESS .065 CHAIN LINK: 6' HIGH x 2 3/8" DIAMOND x 11.5 GAUGE KK MALE HINGES: $2.5" \times 1 \frac{1}{8}"$ WIDE $\times \frac{1}{8}"$ THICK HEAVY DUTY STEEL

LINE POST: 1 5/8" x 8' GATE POS BRACE POST: 1 5/8" x 8' GATE PO		FEMALE HINGE: 1 3/8" x 1/	'8" THICK HEAVY DUTY STEEL POST, WALL THICKNESS .096
	CONSTRU	JCTION FENCE SCREEN	
	PROPERTIES		
	COLOR	GREEN, BLACK, BROWN, BEIGE, ROYAL BLUE	
	MATERIAL COMPOSITION	KNITTED HDPE HIGH DENSITY POLYETHYLENE	
	FILAMENT STRENGTH	50 LBS. PER FT.	

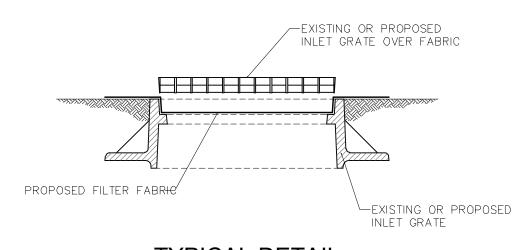
500 LBS. PER FT.

145 GRAMS PER SQ. METER

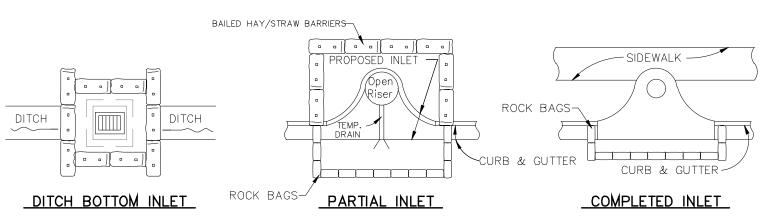
133 DEGREES (

TYPICAL DETAIL TEMPORARY CONSTRUCTION CHAIN LINK FENCE

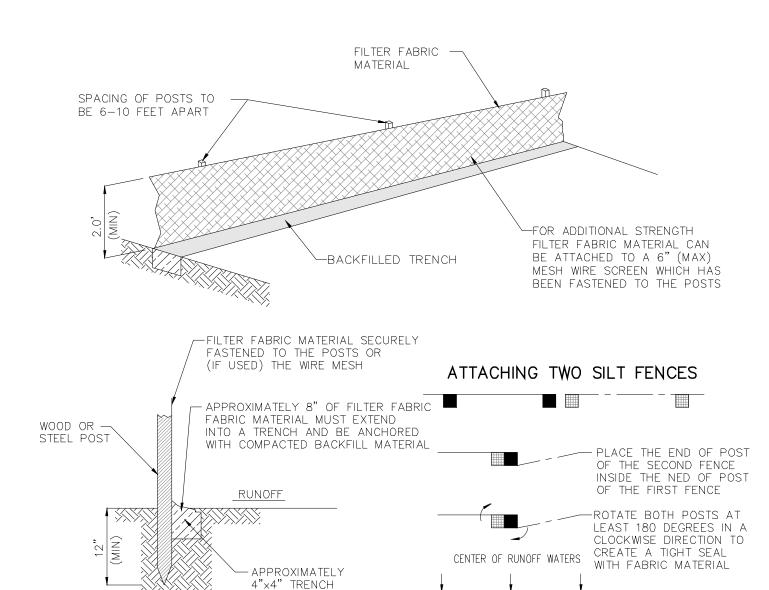
MPOSITION OF UV INHIBITOR | 1.5% AMPLAS CM111821/1.5% EQUASTER CM106000



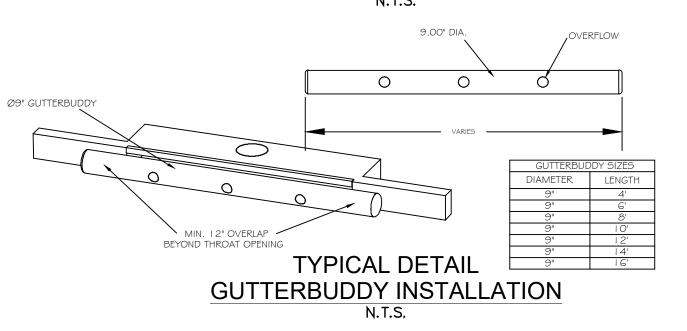
TYPICAL DETAIL FILTER FABRIC INSTALLATION



NOTE: THESE DETAILS ARE FOR TYPICAL INSTALLATIONS AND ARE REQUIRED ONLY WHEN NECESSARY TO PREVENT EROSION OF THE SITE. TYPICAL DETAIL PROTECTION AROUND INLETS N.T.S.



TYPICAL DETAIL INSTALLING A FILTER FABRIC SILT FENCE



EROSION AND SEDIMENT CONTROL GENERAL NOTES:

I. IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS AS SHOWN HEREON AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.

- 2. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
- 3. INSTALLATION OF ALL EROSION AND SEDIMENTATION CONTROL DEVISES SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
- 4. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT THE POLLUTION CONTROL DEVISE.
- 5. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.
- 6. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVISES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- 8. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, E.T.C. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- 9. BALES IF USED SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- I O. BALES SHALL BE PLACED LENGTH WISE IN A SINGLE ROW SURROUNDING THE INLET WITH THE ENDS
- OF THE ADJACENT BALES PRESSED TOGETHER.
- I I . SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRE REPAIRS SHALL BE MADE IMMEDIATELY.
- I 2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 13. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES.
- 15. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER) CHAPTER 6.
- I G. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- I 7. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- 18. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 19. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION SILT SCREENS, HAY BALES, AND GRASSINGS. ALL THE FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
- 20. ALL DEWATERING EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF

CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.

- 2 I . THIS PLAN INDICATES MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL EROSION AND SEDIMENTATION CONTROLS.
- 22. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER D.E.P. INQUIRIES RELATIVE TO COMPLIANCE OF D.E.P. FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
- 23. WHERE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) SPECIFICATIONS AND INDEX ARE REFERENCED, PLEASE REFER TO (F.D.O.T.) ROADWAY AND TRAFFIC DESIGN STANDARDS AND (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.

OTHER CONTROLS:

-DRIVE BOTH POSTS ABOUT

18 INCHES INTO THE

GROUND AND BURY FLAP

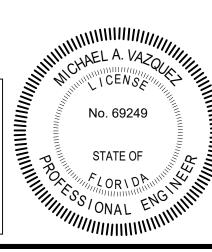
- . WASTE MATERIALS: ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT AND IS RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
- 2. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED OF IN A MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER, SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
- 3. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH THE STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.
- 4. OFFSITE VEHICLE TRACKING: A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED.

NOTE: EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF

THE PROJECT.

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05/24/2021

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S.B.O. Field Book. Job. No. 207007 *3020-039* Sheet

As Shown

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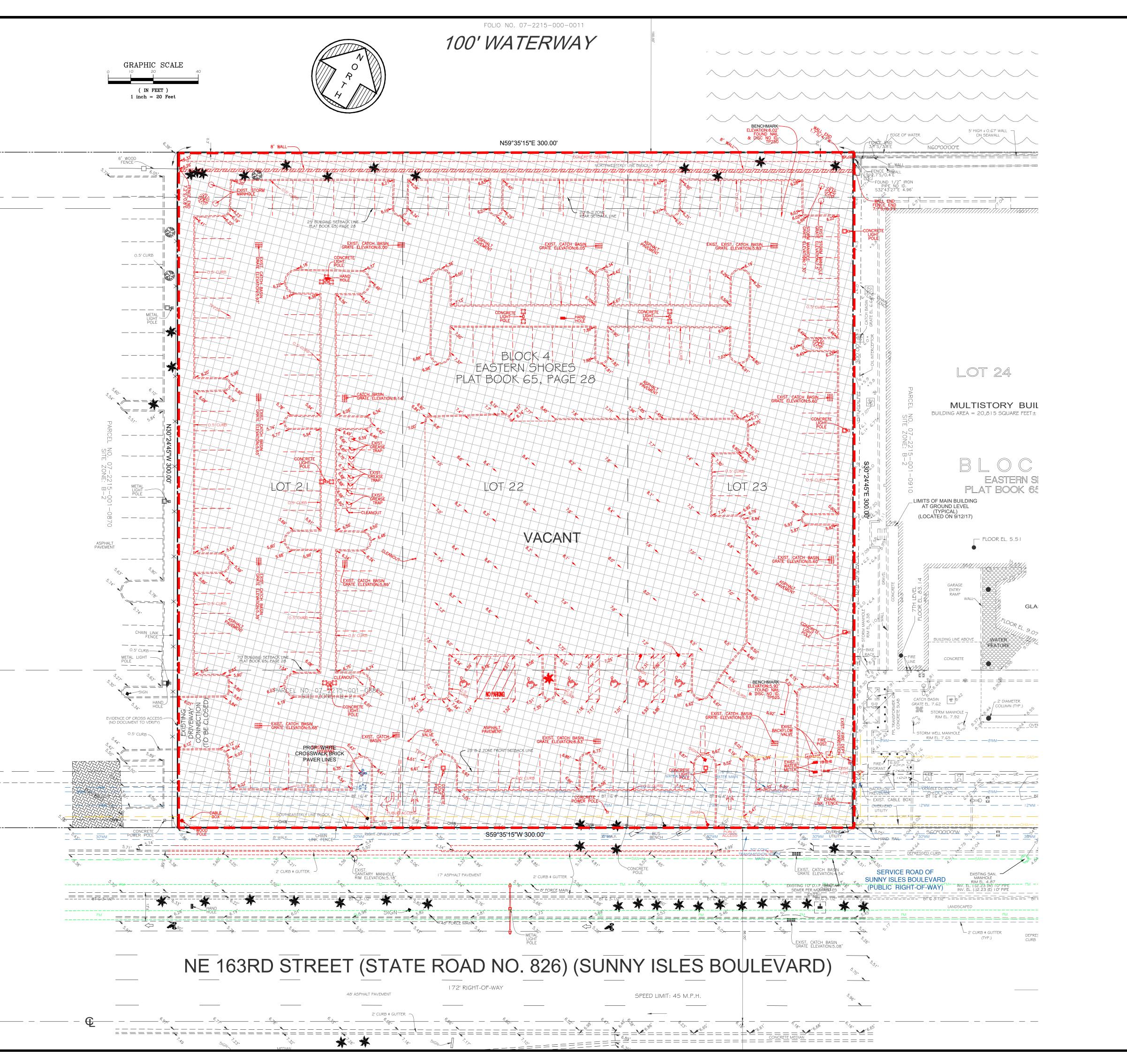
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Drawn By.

Cad. No.

Date Plotted:

Ref. Dwg.



ON-SITE DEMOLITION NOTES:

All Demolition shall Comply with the City of North Miami Beach, Miami-Dade County, Florida Department of Transportation & State of Florida Requirements Specifications.

Existing Trees that are to be removed shall be per the Landscape Architect's Plan and is shown in these drawings for reference only.

Existing Detector Check Valves and Fire Service Lines to be disconnected and removed per North Miami Beach Department's requirements if applicable.

Existing Water Valves, Meters, Backflow Preventers and Vaccum Breakers to be disconnected and removed per North Miami Beach Department's requirements.

Existing FPL Duct and Transformers to be de-energized and removed if applicable. Coordinate with Florida Power & Light.

Existing Sanitary Sewer Laterals to be disconnected and removed to within 5' of property line. Sanitary Sewer Laterals to be capped in Place within 5' of property line and/or Right of Way Line.

Existing Storm Sewer Catch Basin, Manholes & Pipes to be disconnected and removed.

Existing Gas Meters & feed lines cut and capped at Right of Way Line by Gas Company if applicable.

Existing Site Light Poles to be disconnected and removed.

Contractor to determined type of Existing Utility Handholes and coordinate with owner of utility for removal unless otherwise shown to remain.

All on-site improvements Existing Sidewalks, roadways and parking Curbs, Pools and Walls shown within the limits of DEMO project are to be removed unless otherwise

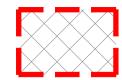
OFF-SITE DEMOLITION NOTES:

Existing Sidewalk, Curb & Gutter along the Service Road for Sunny Isles Boulevard to be replaced per the Paving and Drainage Plan.

Existing Utilities that are to remain shall be adjusted to New Paver or New Concrete Sidewalk as required.

Existing Handholes in sidewalk are to be relocated as noted.

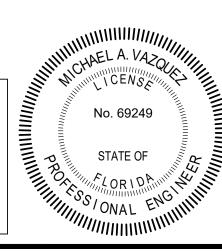
ITEMS SHOWN IN RED ARE TO BE REMOVED UNLESS
OTHERWISE NOTED



PROJECT LIMITS

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No. Date Revision Description

FORTIN, LEAVY, SKILES, INCCONSULTING ENGINEERS, SURVEYORS & MAPPER FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 000036 180 Northeast 168th. Street / North Miami Beach, Florida. 3316 Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flssurvey.cc

CANAL PARK 2 CIVIL SITE PLAN DEMOLITION PLAN

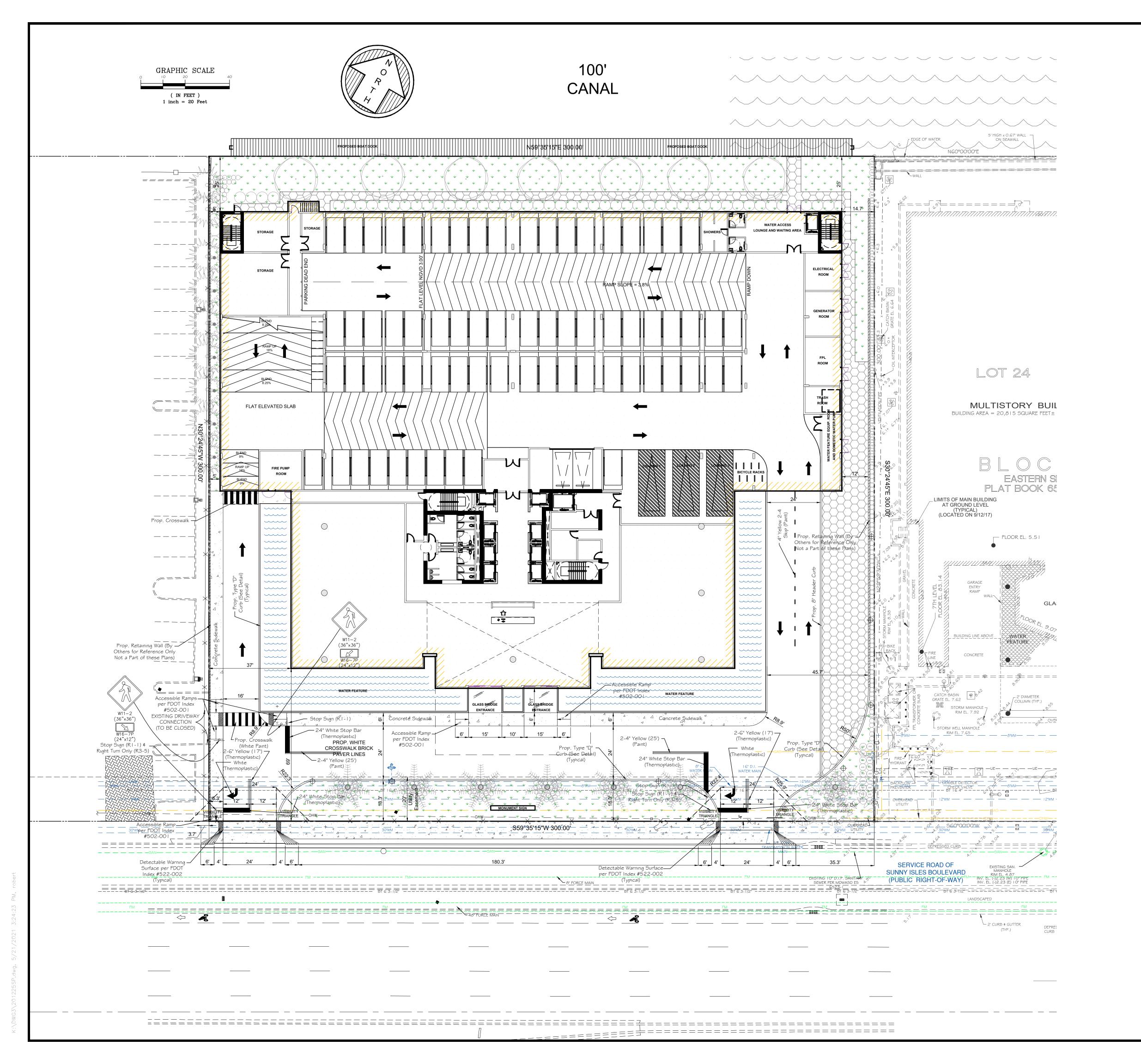
Cad. No.
201225SP
Date Plotted:

5/21/2021 3:24 PM Ref. Dwg. S.B.O.

Field Book.

—
Job. No.

207007 Dwg. No. 3020-039 Sheet



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& MAPPERS
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Florida. 33162

FORTIN, LEAVY, SKILES, INCCONSULTING ENGINEERS, SURVEYORS & MAPPER FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 000036

ANN SITE PLAN

Date
05/24/2021
Scale
1" = 20'
Drawn By.

1" = 20'
Drawn By.
REP
Cad. No.

201225SP

Date Plotted:
5/21/2021 3:24 PM

Ref. Dwg.

S.B.O.
Field Book.

No. 69249

STATE OF

Job. No.

207007

Dwg. No.

3020-039

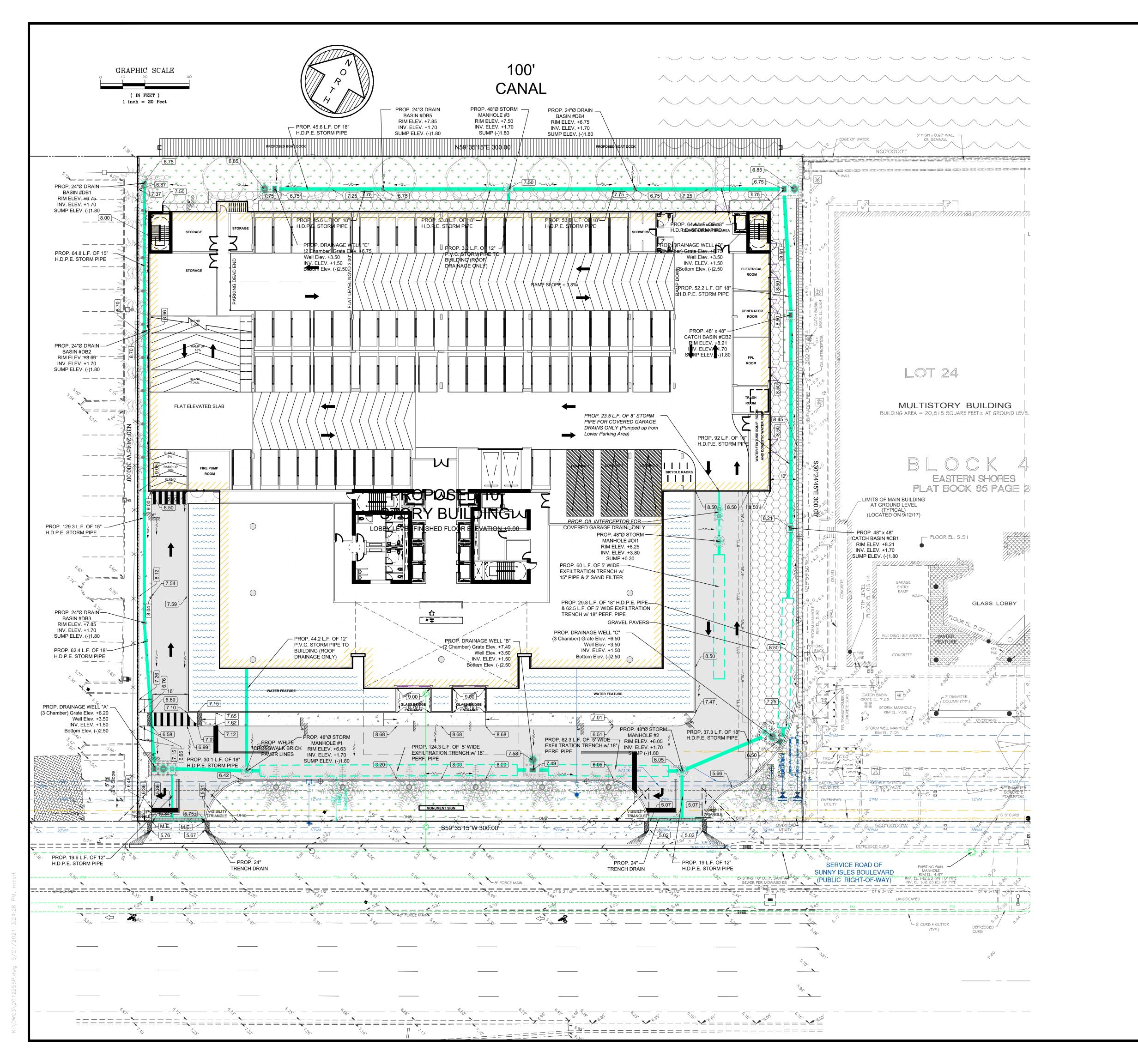
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 Date
 Revision Description

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CANAL PARK CIVIL SITE PLAN GRADING AND DRAINAGE PLAI

05/24/2021
Scale
1" = 20'
Drawn By.
REP

Cad. No. 201225SP Date Plotted: 5/21/2021 3:24 PM

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Field Book.

Field Book.

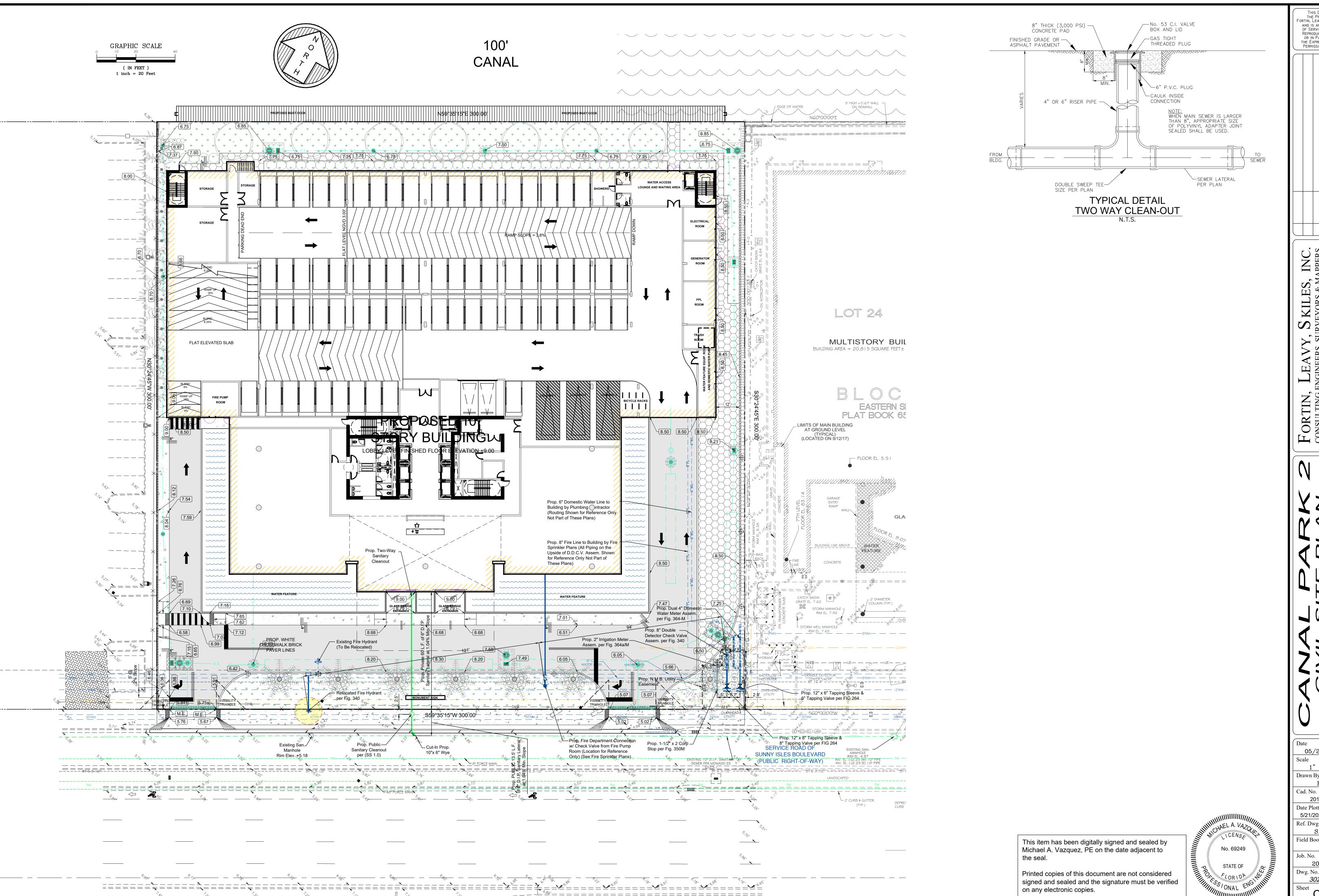
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Job. No.

207007 Dwg. No. 3020-039 Sheet

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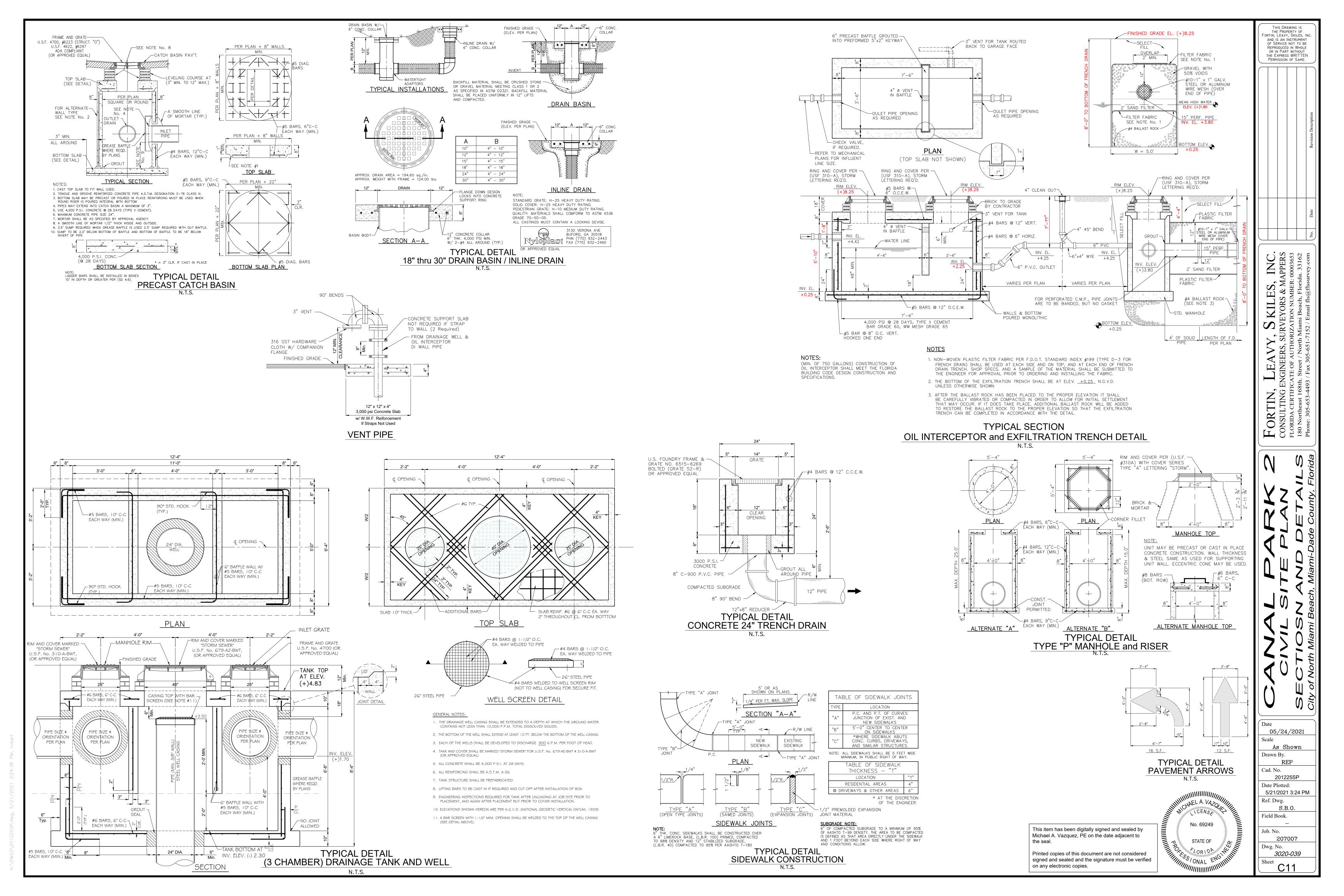
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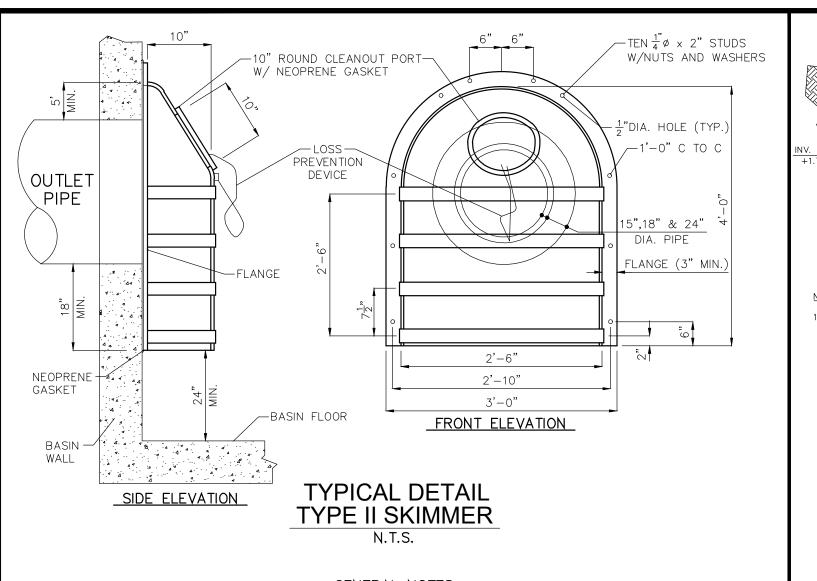
201225SP Date Plotted: 5/21/2021 3:24 PM

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Field Book. Job. No.

207007 Dwg. No. 3020-039 Sheet C10





GENERAL NOTES

- THE CLEANOUT PORT FOR THE TYPE II SKIMMER SHALL BE GASKETED, WITH EITHER A THREADED SCREW—IN LID OR A LID SECURED BY FOUR STAINLESS STEEL QUICK—RELEASE LATCHES.
- 2. PLACE NEOPRENE GASKET MATERIAL BETWEEN THE SKIMMER AND THE CATCH BASIN AT ALL POINTS OF CONTACT. TRIM THE GASKET NEATLY TO EXTEND 1/2 INCH BEYOND THE JOINT ON ALL SIDES.
- 3. SKIMMER BAFFLE, CLEANOUT PIPE AND ANGLES SHALL BE PRIMARILY CONSTRUCTED OF EITHER GALVANIZED STEEL, ALUMINUM, POLYVINYL CHORIDE, POLYETHYLENE, FIBERGLASS OR ACRYONITRILE BUTADIENE STYRENE. ALL STEEL COMPONENTS, OTHER THAN STANLESS, SHALL BE HOT-DIP GALVANIZED.
- STAINLESS STEEL CHAIN OR RIVETED NYLON STRAP.

 5. MATERIAL USED IN CONSTRUCTION OF SKIMMER BODIES (BAFFLES) AND CLEANOUT PIPE SHALL COMPLY WITH FDOT STANDARD

. MOUNTING HARDWARE, HINGES AND LATCHES SHALL ALL BE STAINLESS STEEL LOSS PREVENTION DEVICE SHALL BE EITHER

6. PLASTIC SKIMMERS SHALL CONTAIN A MINIUM OF 1.5% BY WEIGHT OF CARBON BLACK FOR UV PROTECTION.

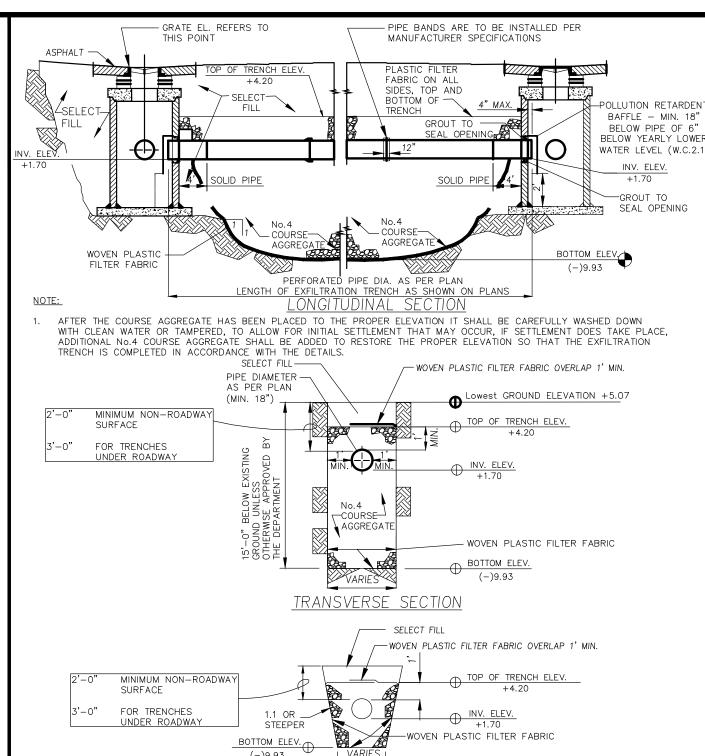
7. THE CONTRACTOR MAY SUBMIT ON ALTERNATIVE DESIGN PREFABRICATED FRENCH DRAIN SKIMMER FOR APPROVAL BY THE

SPECIFICATION 943 FOR STEEL, 945 FOR ALUMINUM OR 948 FOR PLASTICS.

ENGINEER OF RECORD.

8. TYPE I SKIMMER DIMENSIONS SHALL BE BASED ON THE OUTLET PIPE DIAMETER AS SHOWN IN THE DIMENSION TABLE.

TYPICAL DETAIL GREASE BAFFLE



* MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE—IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.

NOTES (CONTINUED ON NEXT PAGE)

1. PLASTIC FILTER FABRIC SHALL BE WOVEN MONOFILAMENT POLYPROPYLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC AND FLOW RATE GREATER OR EQUAL TO 50 gal/min.

2. MAXIMUM EXFILTRATION WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfs/lf.

			<u>'</u>	
MIAMI-DADE COUNTY		REVISED	STANDARD STORM DRAINAGE DETAIL	SD
PUBLIC WORKS AND WASTE MANAGEMENT	APPROVED _04/16/2015_	02 / 08 / 2011 09 / 26 / 2012 10 / 19 / 2012	EXFILTRATION TRENCH (FRENCH DRAIN)	1.1 SHEET 1 OF 2
•	***	***		

NOTES - CONTINUED

- The minimum pipe diameter for drainage system within the roadway right—of—way shall be 18 inches. 15 inch pipe may be used in private roadways.

 No trees to be planted within 5 feet of the edge of the trench.
- 5. Type "P" S.D. 2.6 structure is recommended for small drainage areas less than 0.2 acre per catch basin.
- 6. Type "J" S.D. 2.6 structure is recommended for areas larger than 0.2 acre
 7. All inverts of perforated pipes to be at mean high October water table W.C. 2.2
- 8. Pipes can be allowed below mean high October water table due to utility conflicts or in order to provide the required minimum cover.
 9. Neoprene gasket required for baffles on all contact edges mounted on wall.
 10. Oil and grease baffle is required for all drainage structures preceding an outfall
- or exfiltration trenches. In projects located in wellfield protection areas, road intersections with traffic lights, and large parking lots which include 15 parking spaces or more.
- 11. Oil and grease baffle may be waved in suburban residential areas.

GENERAL NOTES FOR PIPE CULVERTS

Contractor has the option of installing any pipe meeting the requirements of Section 443—2 of the FDOT Standard Specifications for road and bridge construction as long as the manufacturer is listed. At the time of pipe installation, in FDOT's list of producers with accepted quality control programs. Pipes with less than a 100—year certification cannot be used on section line, half section line, collector roadways, and arterials. 50—year pipe certification required for all other minor/local roadways.

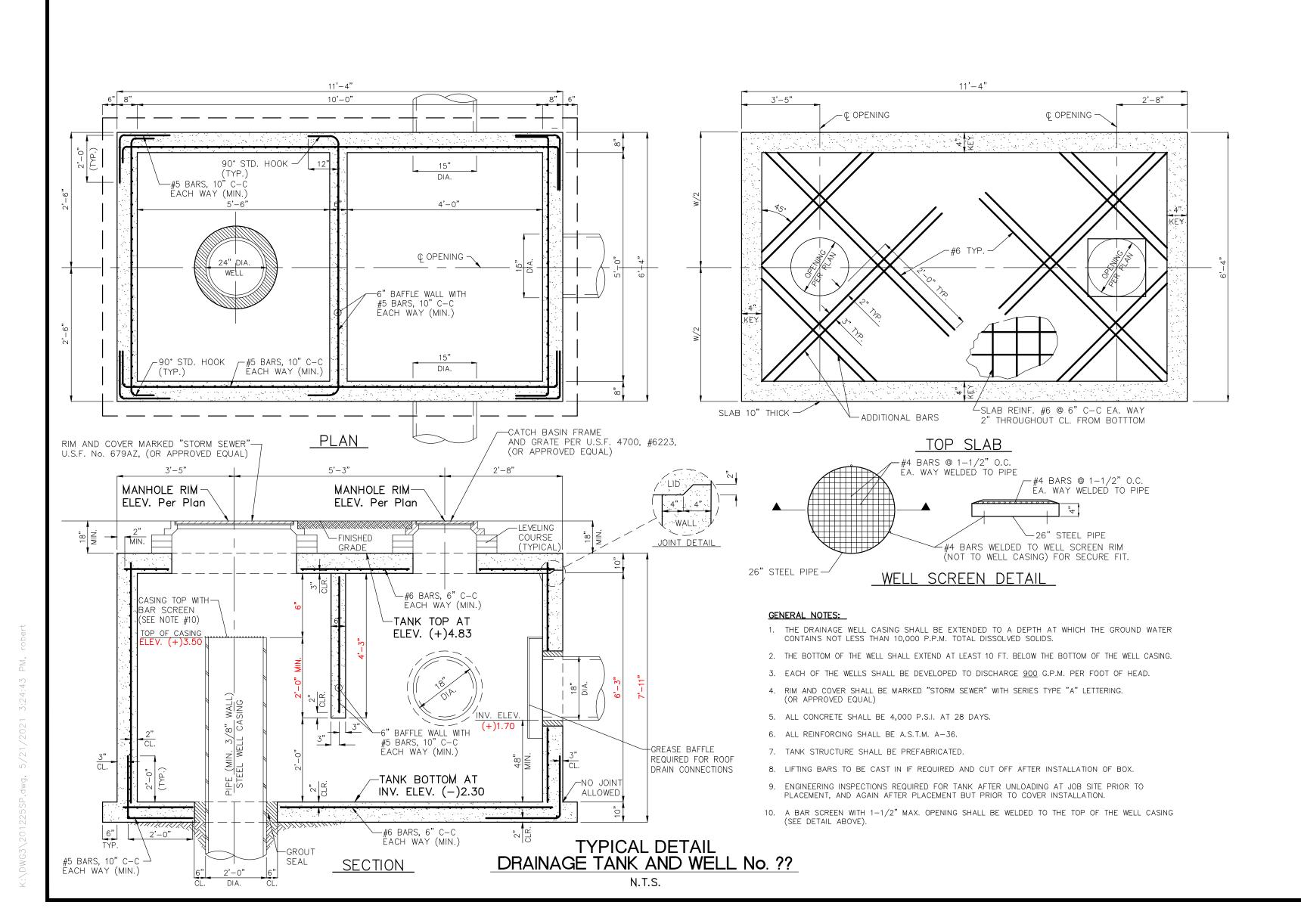
MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS

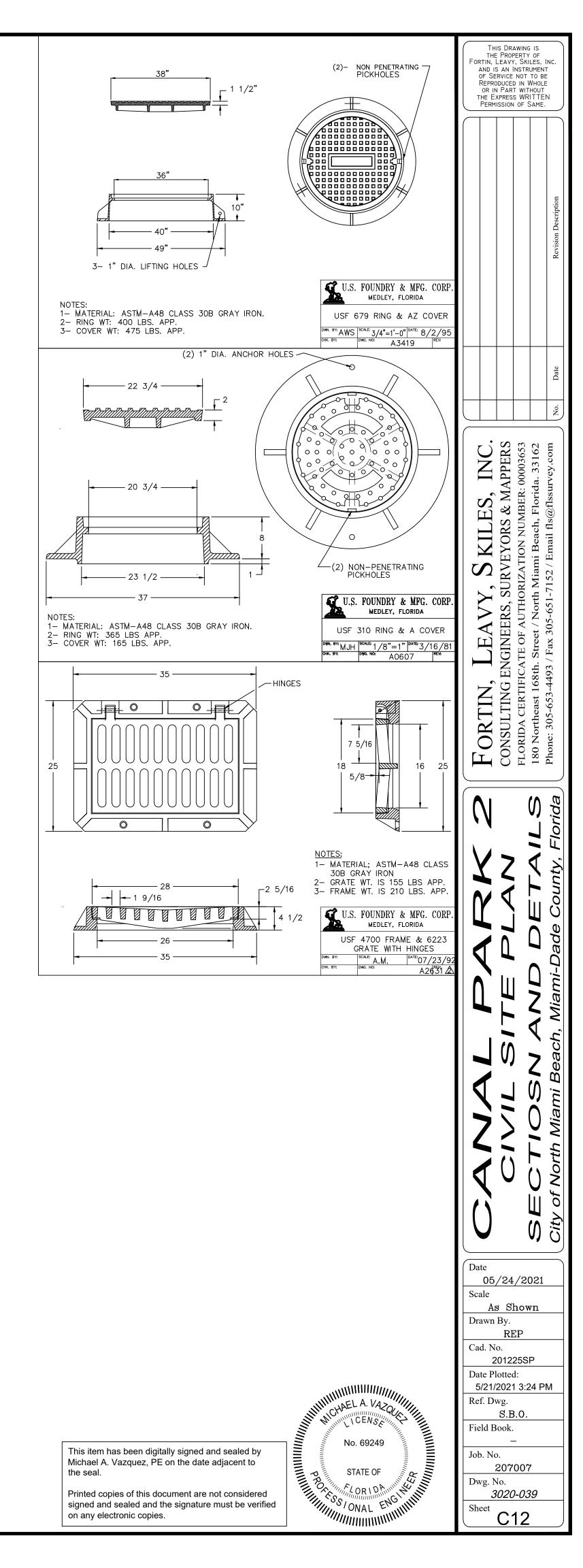
PIPE DIAMETER	OUTER SHELL	LINER
	No. of 3/8" Dia. Holes	No. of 5/8" Dia. Holes
(inches)	(PER LIN. FT. OF PIPE)	(PER LIN. FT. OF PIPE)
15	100	50
18	120	60
24	160	80
30	200	100
<u>36</u>	240	120
<u>42</u>	275	140
<u>48</u>	315	150
<u>54</u>	355	180
<u>60</u>	395	200
<u>72</u>	470	235
<u>84</u>	550	275

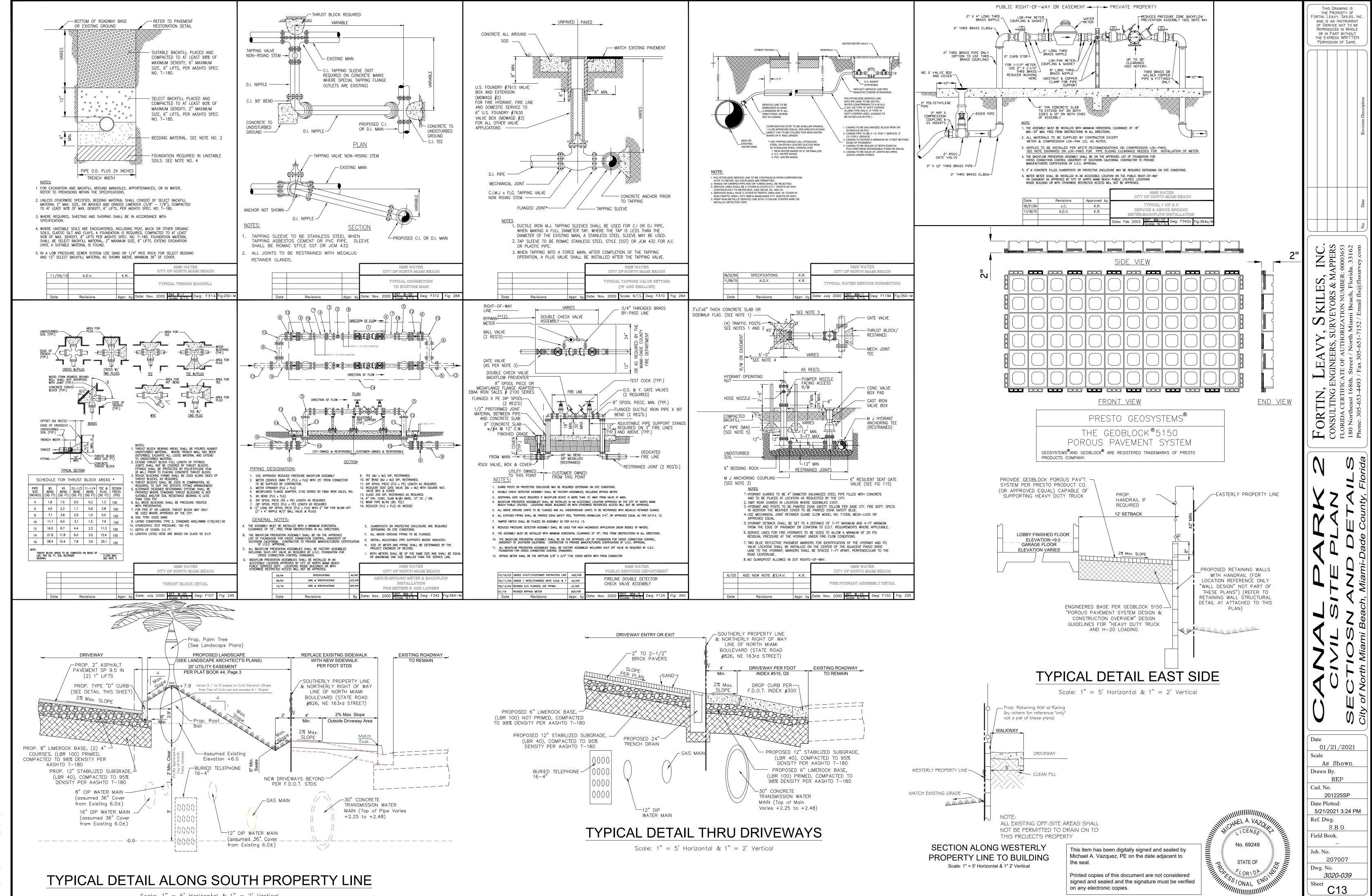
NOTE:

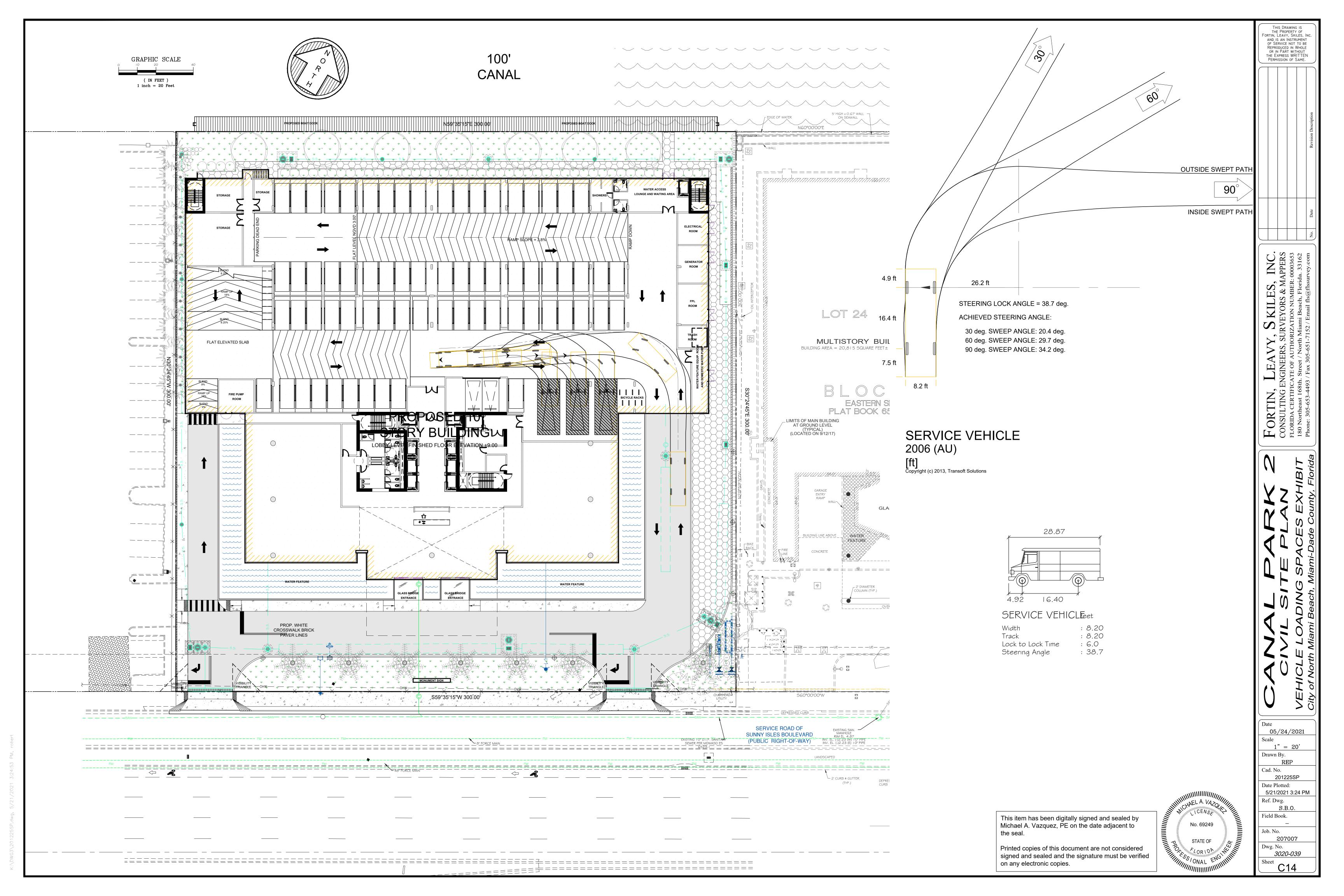
Perforations shall be uniformly spaced around the full periphery of the pipe to within 4" of each end of each length of pipe. The number of perforations per linear foot of pipe and the diameter of the perforations shall be as shown on the above table.

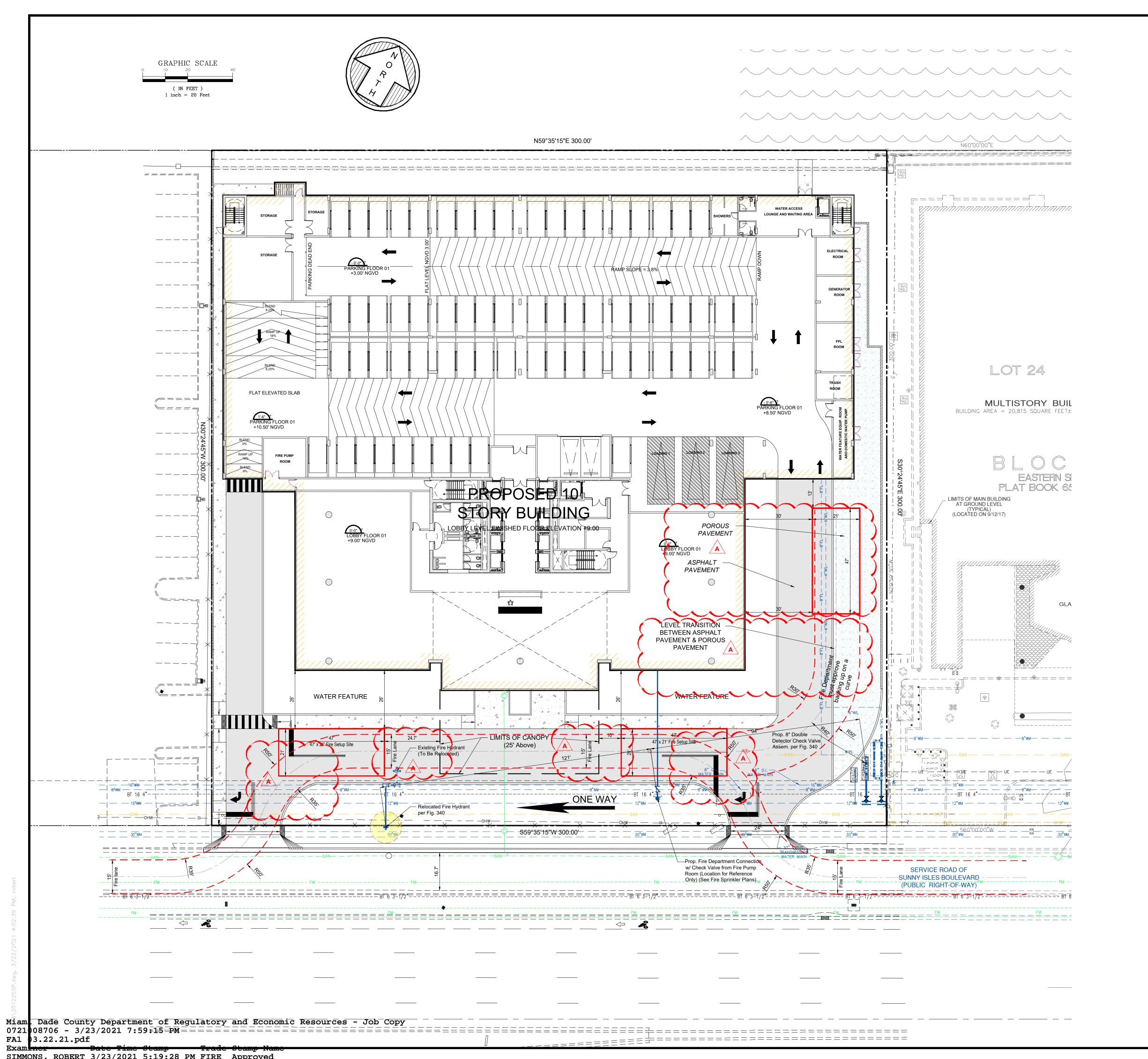
MIAMI-DADE COUNTY		REVISED	STANDARD STORM DRAINAGE DETAIL	SD
PUBLIC WORKS AND WASTE MANAGEMENT	APPROVED _04/16/2015_	02 / 08 / 2011 09 / 26 / 2012 10 / 19 / 2012	EXFILTRATION TRENCH (PIPE CULVERT NOTES)	1.1 SHEET 2 OF 2











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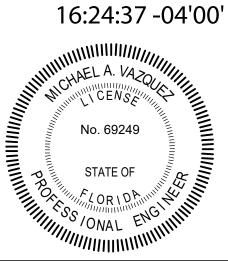
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Michael Digitally signed by Michael Vazquez Date:

2021.03.22

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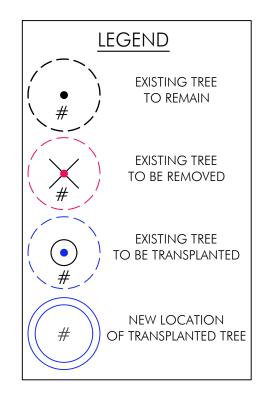
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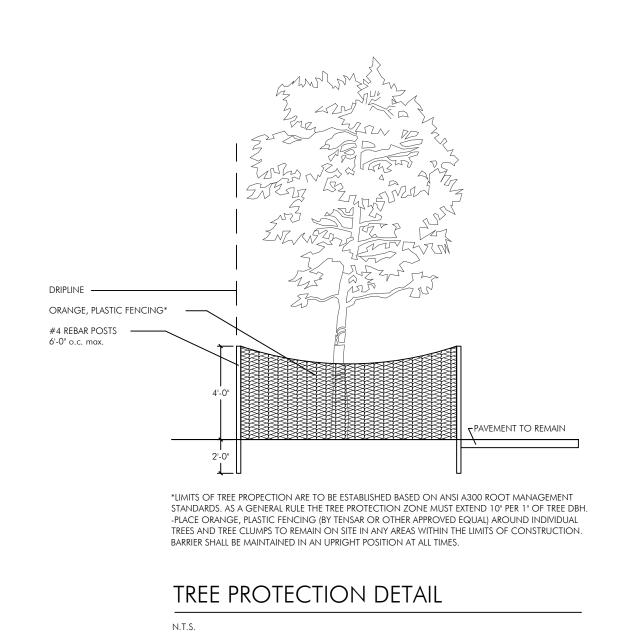
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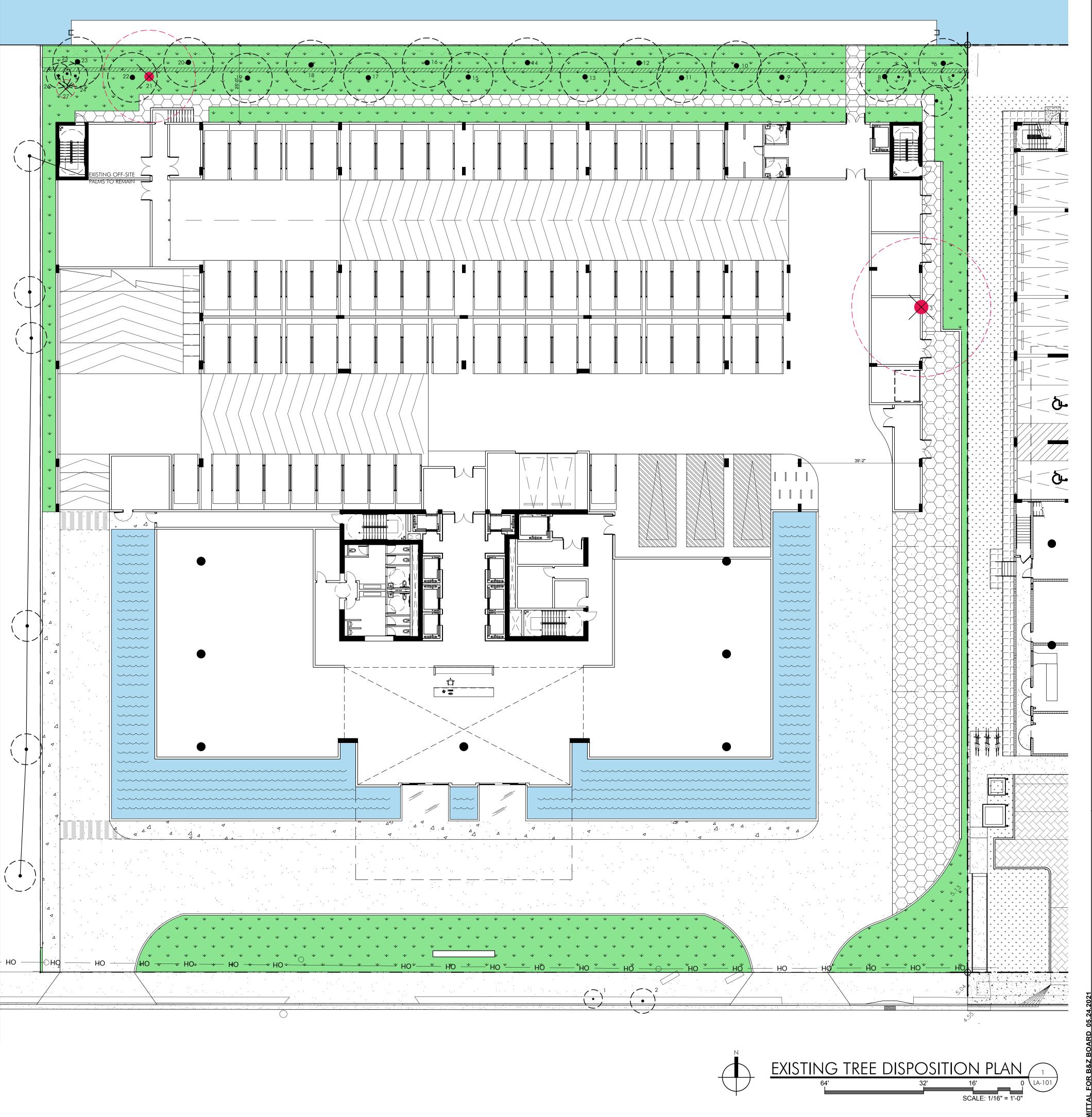
207007 Dwg. No. 3020-039-FA1 Sheet FA1

				S	IZ E		ISPOSITIO	NC	MITIGATION
KEY	BOTANICAL NAME	COMMON NAME	HT.(f	t. SPD.(ft. DBH.(in.)	REMAIN	REMOVE	TRANSPL.	S.F. CANOPY
	Ptychosperma elegans	Solitare Palm	16	6	3	X			
)	Ptychosperma elegans	Solitare Palm	16	8	3+3	X			
3	Quercus virginiana	Live Oak	30	45	23		X		3181
	Quercus virginiana	Live Oak	24	20	14.5	X			
)	Ptychosperma elegans	Solitare Palm	16	8	4	X			
	Cocos nucifera	Coconut Palm	22	16	9	X			
7	Ptychosperma elegans	Solitare Palm	14	8	4	X			
3	Cocos nucifera	Coconut Palm	30	16	9	X			
)	Cocos nucifera	Coconut Palm	28	16	9	X			
0	Cocos nucifera	Coconut Palm	26	16	9	X			
1	Cocos nucifera	Coconut Palm	28	16	9	X			
2	Cocos nucifera	Coconut Palm	28	16	9	X			
3	Cocos nucifera	Coconut Palm	28	16	9	X			
4	Cocos nucifera	Coconut Palm	28	16	9	X			
5	Cocos nucifera	Coconut Palm	28	16	9	X			
6	Cocos nucifera	Coconut Palm	28	16	9	X			
7	Cocos nucifera	Coconut Palm	28	16	9	X			
8	Cocos nucifera	Coconut Palm	28	16	9	X			
9	Cocos nucifera	Coconut Palm	28	16	9	X			
20	Cocos nucifera	Coconut Palm	24	16	9	X			
21	Acacia auriculiformis	Earleaf Acacia	40	30	22		Χ		n/a
22	Cocos nucifera	Coconut Palm	32	16	9	Χ			
23	Cocos nucifera	Coconut Palm	22	16	9	X			
24	Ptychosperma elegans	Solitare Palm	22	8	4	X			
25	Ptychosperma elegans	Solitare Palm	18	8	4	X			
26	Ptychosperma elegans	Solitare Palm	20	8	4	Χ			
27	Schefflera actinophylla	Umbrella Tree	10	6	multi		X		n/a

*Mitigation provided (see	e plant list for specie	es):	
MITIGATION TYPE	QTY.	MITIGATION EA. (S.F.)	TOTAL MITIGATION (S.F.)
Shade Tree 1	8	500	4000
Shade Tree 2	5	300	1500
Palm Tree 1	16	300	4800
Palm Tree 2	0	100	0
Small Tree	0	200	0
GRAND TOT	AL S.F. MITIGATION	CANOPY PROVIDED*	10300









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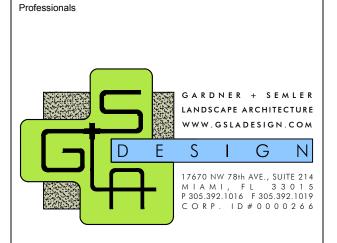
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STANDARDS AS DETERMINED
BY THE LOCAL AUTHORITY IN
ACCORDANCE WITH THIS
SECTION AND 633 FLORIDA

TAYLOR KIEHL SEMLER FLLA 6667205



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GROUND FLOOR

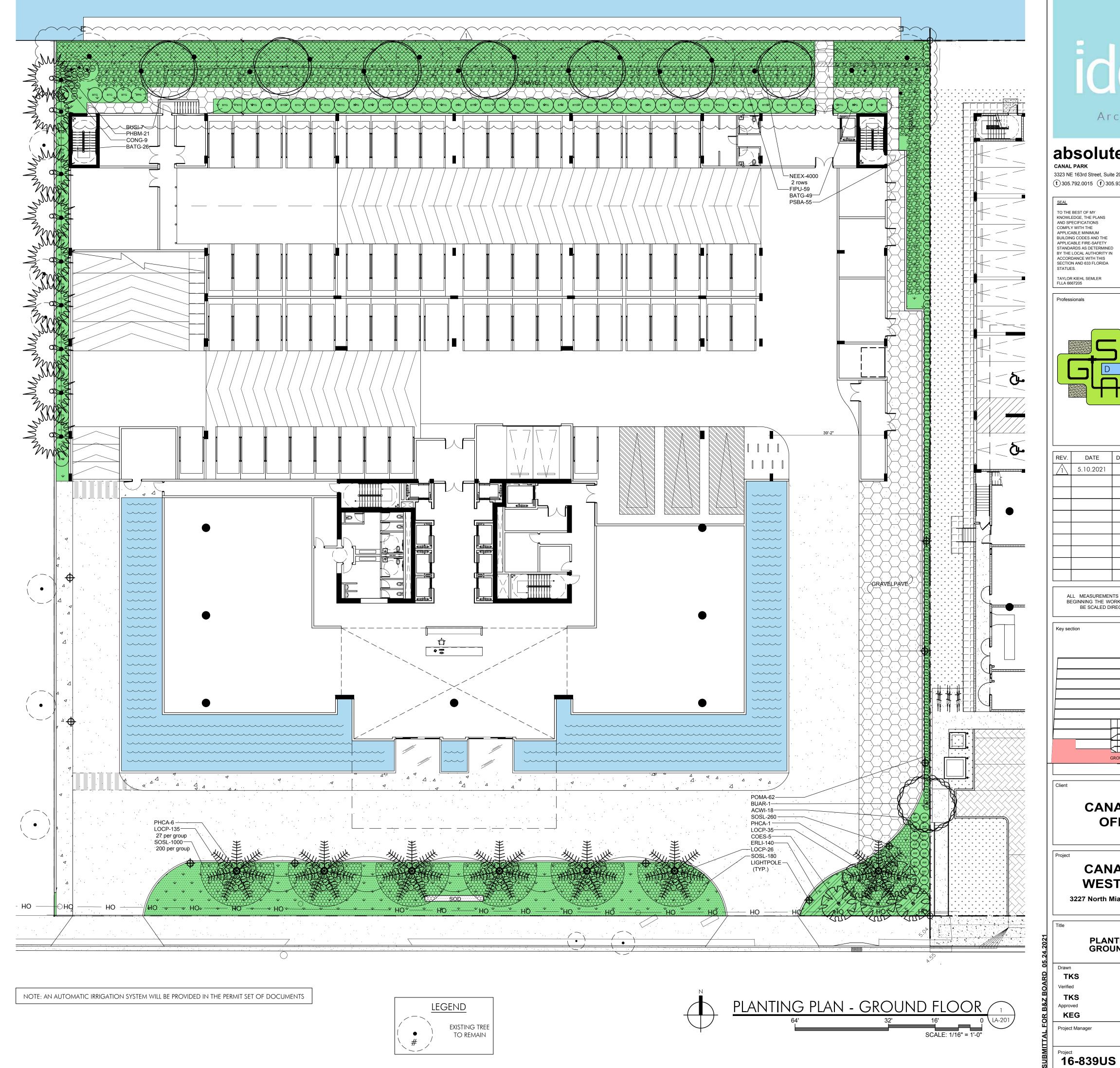
CANAL PARK OFFICE 2

CANAL PARK
WEST TOWER
3227 North Miami Beach, FL 33160

Drawn
TKS
Verified
Ve

16-839US

	PLANT LIST								
TREES									
KEY	PLANT NAME	QTY.	UT.	SIZE					
BUAR	Bulnesia arborea	1	ea.	18' tall x 8' spread, 5" DBH					
	Verawood								
BUSI	Bursera simaruba	7	ea.	18' tall x 8' spread, 5" DBH					
	Gumbo Limbo								
COES	Conocarpus erectus "Sericeus"	5	ea.	12' tall x 6' spread min. multi					
	Silver Buttonwood			trunk, lifted to tree form					
PALMS	<u> </u>	•	ı						
KEY	PLANT NAME	QTY.	UT.	SIZE					
CONG	Cocos nucifera "Green Malayan"	9		28' tall OA, 10' CW					
00110	Coconut Palm		ou.	20 tan 671, 10 000					
PHCA	Phoenix canariensis	7	ea.	10' CW, classic cut, matchir					
/ ,	Canary Island Date Palm			to be selected by owner					
PHRO(d)		6	ea.	6' tall OA, double trunk					
(u)	Pygmy Date Palm		J	Tan Ort, additionally					
BAMBO	1								
KEY	PLANT NAME	QTY.	III T	SIZE					
BATG	Bambusa textilis gracilis	71	ea.	14' tall OA, 7 culms min per					
DATO	Graceful Bamboo	"	ca.	pot					
NOW AND 1860-100 AND 1000	1			pot					
SHRUE	BS .								
KEY	PLANT NAME	QTY.	UT.	SIZE					
ACWI	Acalypha wilkesiana	18	ea.	3 gallon cans, 24" o.c.					
	Copperleaf								
ERLI	Ernodea littoralis	140	ea.	1 gal cans, install 18" o.c.					
	Golden Creeper								
NEEX	Nephrolepis exaltata	1900	ea.	1 gal cans, install 12" o.c.					
	Boston Fern								
LOCP	Loropetalum chinense "Purple Diamond"	196	ea.	7 gal cans, 30"x24" min.					
	Purple Loropetalum								
PHBM	Philodendron 'Burle Marx'	21	ea.	1 gallon cans, 24" o.c.					
	Burle Marx Philodendron								
POMA	Podocarpus macrophyllus	62	ea.	4' tall x 2' spread					
	Maki Yew								
PSBA	Psychotria bahamensis	55	ea.	18"x18"					
	Bahamas Wild Coffee								
SOSL	Solenostemon scutellaroides "Lime"	1260	ea.	1 gal cans, install 12" o.c.					
	Coleus								
MISC									
KEY	PLANT NAME	QTY.	UT.	SIZE					
gravel	Grey Gravel	25	c.y.	#57 stone					
sod	Empire Zoysia	as req	s.f.	solid sod					
	Planting Soil		c.y.	excavate 24" depth and back					
	70% Silica Sand			with planting soil in all plante					
	30% Florida Peat			adjacent to the front drivewa					
	Shredded Pinebark Mulch		c.y.	2" layer, Dark brown color					
	The state of the s	1	- · J ·						





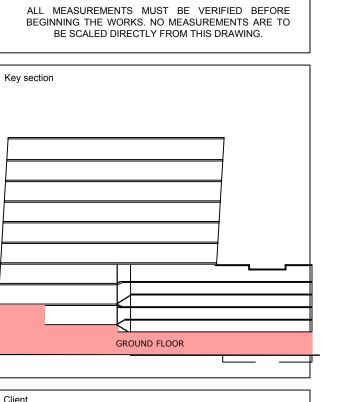
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REV.	DATE	DESCRIPTION			
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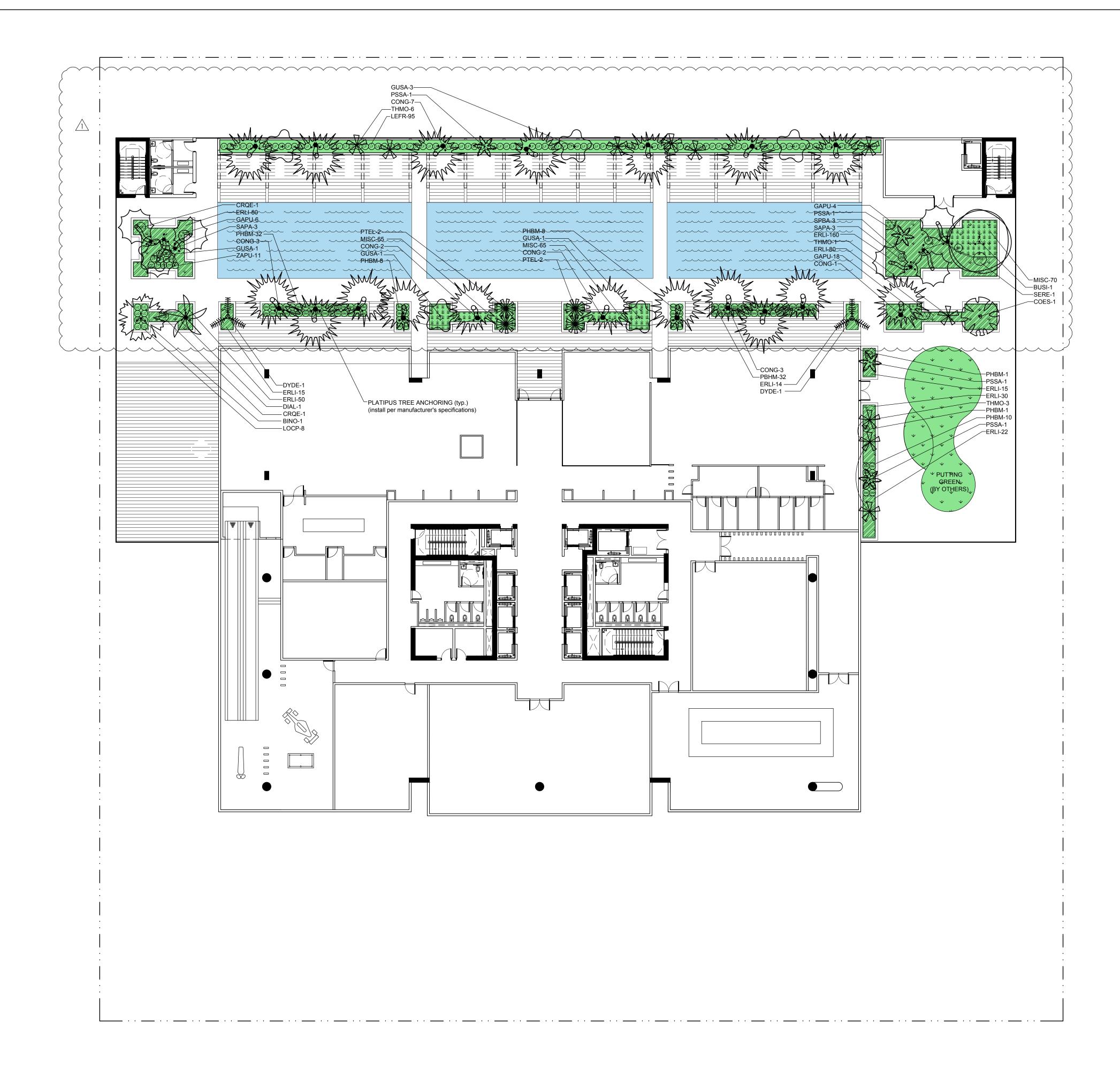


CANAL PARK OFFICE 2

CANAL PARK WEST TOWER 3227 North Miami Beach, FL 33160

BMITTAL FOR B&Z BOARD 05.24.2021	PLANTING PLAN GROUND FLOOR					
	Drawn TKS Verified	Field LANDSCAPE ARCHITECTURE Scale				
	TKS Approved KEG	as shown Date 05-24-2021				
	Project Manager Project	Dwg. no. LA-201				

	PLANT LIST - P	OOL	DEC	K
TREES				
KEY	PLANT NAME	QTY.	UT.	SIZE
BUSI	1	ea.	12' tall x 5' spread, 3" DBH	
COES	Gumbo Limbo Conocarpus erectus "Sericeus"Silver Buttonwood	1	ea.	10' tall x 6' spread min. multi- trunk, lifted to tree form
GUSA	Guaiacum sanctum	6	ea.	6' tall x 5' spread, 1.5" DBH
D 4 1 1 4 0	Lignum Vitae			
PALMS			1	1
KEY	PLANT NAME	QTY.	_	SIZE
BINO	Bismarckia nobilis Bismarck Palm	1	ea.	5' CW
CONG	Cocos nucifera "Green Malayan"Coconut Palm	18	ea.	5' CT, curved trunks
DIAL	Dictyospema album Princess Palm	1	ea.	7' tall OA
DYDE	Dypsis decaryi	2	ea.	5' CT
PSSA	Triangle Palm SSA Pseudophoenix sargentii		ea.	5' tall OA
PTEL	Buccaneer Palm Ptychosperma elegans	4	ea.	18' tall OA, matching heights
	Solitare Palm	6	ca.	
SAPA	Sabal palmettoSabal Palm		ea.	20' tall OA, curved trunks, leaning as shown on plan,
ТНМО	Thrinax morrissii	10	ea.	5' tall OA
01.101.10	Silver Keys Palm			
SHRUB			1000	T
KEY	PLANT NAME	QTY.		SIZE
CRQE	Crinum asiaticum "Queen Emma"Queen Emma Crinum Lily	2	ea.	48"x 48"
ERLI	Ernodea littoralisGolden Creeper	466	ea.	1 gal cans, install 18" o.c.
GAPU	Gaillardia pulchella Blanket Flower	28	ea.	1 gallon cans, install 24" o.c. against wall
LOCP	Loropetalum chinense "Purple Diamond"	8	ea.	18"x18"
	Purple Loropetalum	200		
MISC	Microsorum scolopendriaWart Fern		ea.	1 gal cans, install 12" o.c.
LEFR	Leucophyllum frutescensTexas Sage		ea.	24"x 24"
PHBM	Philodendron 'Burle Marx'		ea.	3 gallon cans
SERE(s)	Burle Marx Philodendron Serenoa repens "Silver Form"		ea.	24"x24"
SPBA	Silver Saw Palmetto Spartina bakerii	3	ea.	
	Sand Cordgrass			
ZAPU	Zamia pumilaCoontie	11	ea.	18"x 18"
MISC				
KEY	PLANT NAME	QTY.	UT.	SIZE
•	Planting Soil		c.y.	
	60% Silica Sand			
	30% Florida Peat			
	10% Rice Rock	<u></u>		
	Shredded Pinebark Mulch		c.y.	2" layer, Dark brown color







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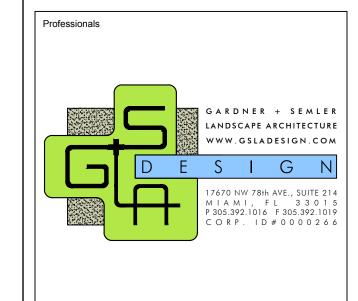
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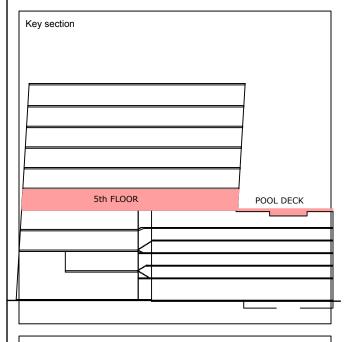
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TAYLOR KIEHL SEMLER
FLLA 6667205



REV.	DATE	DESCRIPTION
<u>/ì</u>	5.10.2021	TRAD

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CANAL PARK OFFICE 2

CANAL PARK
WEST TOWER
3227 North Miami Beach, FL 33160

	Title					
.24.2021	PLANTING PLAN 5TH FLOOR					
OARD 0	Drawn TKS Verified	Field LANDSCAPE ARCHITECTURE Scale				
AL FOR B&Z BOARD 05.24.2021	TKS Approved	as shown Date				
	KEG	05-24-2021				
TTAL F	Project Manager	Dwg. no. Ι Δ _ 2 Ω 1				

Project **16-839US**

PLANT LIST - ROOF							
SHRUBS							
KEY	PLANT NAME	QTY.	UT.	SIZE			
CHIC	Chrysobalanus icaco	138	ea.	24"x24"			
	Cocoplum						
LEFR	Leucophyllum frutescens		ea.	24"x24"			
	Texas Sage						
MISC							
KEY	PLANT NAME	QTY.	UT.	SIZE			
	Planting Soil	as req	c.y.	install in roofdeck planters			
	60% Silica Sand						
	30% Florida Peat						
	10% Rice Rock						
	Shredded Pinebark Mulch	as req	c.y.	2" layer, Dark brown color			





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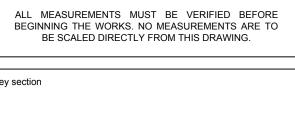
SEAL

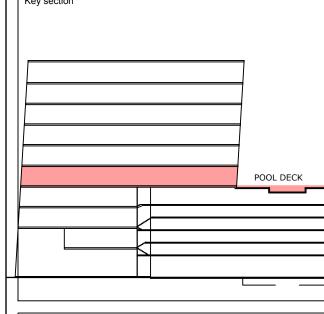
TO THE BEST OF MY
KNOWLEDGE, THE PLANS
AND SPECIFICATIONS
COMPLY WITH THE
APPLICABLE MINIMUM
BUILDING CODES AND THE
APPLICABLE FIRE-SAFETY
STANDARDS AS DETERMINED
BY THE LOCAL AUTHORITY IN
ACCORDANCE WITH THIS
SECTION AND 633 FLORIDA
STATUES.

TAYLOR KIEHL SEMLER
FLLA 6667205



DATE	DESCRIPTION
=: ·· -	DESCRIPTION





CANAL PARK OFFICE 2

CANAL PARK
WEST TOWER
3227 North Miami Beach, FL 33160



16-839US

LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

. Contractor shall provide all labor, materials, equipment, supervision, and related work necessary to complete the landscape work in accordance with the intent of the landscape plans, schedules and these specifications. The extent of work is shown on the drawings which 3.2 HERBICIDE TREATMENT are a part of this document.

.2 CONTRACTOR QUALIFICATIONS

A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape of Arboriculture (ISA) and licensed in County where work is performed.

3 INVESTIGATION OF UTILITIES

. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Sunshine State, call (811).

4 SUBSTITUTIONS A. Only materials specified will be accepted, unless approved in writing by the Landscape

Architect in advance.

A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in range specified. Plants shall be measured following pruning, with branches in normal position. All necessary pruning shall be done at the time of planting.

.6 PLANT QUALITY

A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species; healthy, vigorous, free from insects, disease and injury.

3. The Owner or Landscape Architect reserves the right to refuse any plant material which does not conform to the intent of the written specifications or design.

. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

.8 UNIT PRICES

A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the quantity on the plan shall override the plant list.

A. The successful bidder shall furnish to the Owner and the Landscape Architect, a unit price preakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.

A. Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed above, after installation of each section of the planting installed.

at the rates specified in section 2.2 FERTILIZER. B. Planting soil: The Contractor shall submit a sample of the planting soil (approximately 1 cu. Ft.) for approval by the Landscape Architect prior to delivery to the site.

.10 CLEAN-UP & MAINTENANCE OF TRAFFIC

A. Follow procedures in FDOT Index 600 for maintenance of traffic during construction.

3. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists.

Upon completion of the work or any major portion of the work or as directed by the Landscape Architect, all debris and surplus material from his work shall be removed from the

.11 MAINTENANCE PRIOR TO ACCEPTANCE A. The Contractor is responsible to maintain the plantings until they are accepted under the

provisions of 1.12 "ACCEPTANCE OF INSTALLATION". Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance

shall include watering all plants, weeding, mulching, pest and disease control, tightening and epairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or up-right position, restoration of plant saucer, litter pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1. 2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and

ontinue until sod installation is complete and accepted. Maintenance shall include but not · limited to, watering, leveling, mowing, weed and pest control, tungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery

. Re-setting or straightening trees and palms:

The Contractor shall re-set and/or straighten trees and palms as required at no additional cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.

.12 ACCEPTANCE OF INSTALLATION

A. Inspection: Inspection of the work, to determine completion of contract work, exclusive of the possible replacement of plants and turf, will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor at least ten (10) days prior to the anticipated date.

I.13 GUARANTEE

. Guarantee all plants for a period of one year (CCD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work that has been done in an unworkman-like manner. The Contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandalism or theft.

A. Replacement shall be made during the guarantee period as directed by the Landscape Architect within ten (10) days from time of notification. For all replacement plant material, the guarantee period shall extend for an additional forty-five (45) days beyond the original guarantee period. The Contractor shall be responsible to provide water to the replacement plants in sufficient quantity to aid in their establishment. At the end of the guarantee period, nspection will be made by the Landscape Architect, upon written notice requesting such nspection and submitted by the Contractor at least five (5) days before the anticipated date. Replacement plants must meet the requirements of Florida No. 1 at time of inspection. Remove from the site all plants that are dead or in a state of unsatisfactory growth, as determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit.

Materials and Operations: All replacement plants shall be of the same kind and size as ndicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.

2. Cost of Replacements: A sum sufficient to cover the estimated cost of possible replacements, including material and labor will be retained by the Owner and paid to the Contractor after all replacements have been satisfactorily made and approved by the

PART 2 - MATERIALS

1 PLANTING SOIL

. Planting soil for trees, shrubs and ground covers shall be of the composition noted on the plans, measured by volume.

3. Soil for Sodded Areas: shall be coarse lawn sand.

A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13-3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, pearing the manufacturer's guaranteed analysis. Fertilizer for sod and seeded areas shall be 8-6-8, 50% organically derived nitrogen, or equal.

A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the location and accessibility of the water source. The Contractor is responsible to provide the means of distribution (i.e. water truck, hoses, etc.) for distribution of water to the planting areas.

2.4 MUICH

A. Mulch shall be as specified on the Plant List.

5 ROOT BARRIER MATERIAL

A. Root barrier material shall be 24" deep polypropolylene panels by DeepRoot or approved NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE.

PART 3 - INSTALLATION PROCEDURES

A. Verify location of all underground utilities and obstructions prior to excavation.

A. In all areas infected with weed and/or grass growth, a systemic herbicide shall be applied

per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to kill all noxious growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undesirable growth. If necessary, Contractor shall conduct a test to establish Contractor. Any pruning to be supervised by an Arborist, certified by the International Society suitability of product and applicator to be used on this project, prior to execution of the full

3.3 PLANT PIT EXCAVATION AND BACKFILLING A. Trees: See the Planting and Bracing Details and notes.

B. All planting holes shall be hand dug where machine dug holes may adversely affect

C. Shrubs and Groundcover: Shrubs and groundcover shall be planted in a soil bed as described in the notes and details. Space shrubs and provide setback from curb and pavements as shown in the plans.

utilities or improvements.

A. The Contractor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period after acceptance until the full schedule as listed below is complete. Water for trees and other large field grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION For trees up to 5 inch caliper - 5 gallons

From 5 to 8 inch caliper - 25 gallons 9 inch and up caliper - 50 gallons

FREQUENCY OF WATER Daily for the first week

3 times per week for weeks 2 - 5 2 times per week for weeks 6 - 8

1 time per week for weeks 9 - 12

B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contractor shall be responsible for watering the shrub, sod, and groundcover for the time specified

A. Add fertilizer on top of the surface of shrubs beds and tree and palms root balls two (2) months after installation. Fertilize sod within two (2) days after installing after planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates:

1. Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over

2. Shrubs: One half (1/2) handful per shrub, spread evenly over the root ball area.

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades immediately after

A. Spread mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and palms planted in sod areas. Keep mulch away from contact with the trunk. Create a 6" high

3.7 GUYING AND BRACING

ring of mulch at the outer edge of tree and palm holes.

A. See the details bound herewith or made part of the plans.

3.8 SODDING A. Provide a blanket of lawn sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excavate existing non-conforming soil as required so that the finish grade of sod is flush with adjacent pavement or top of curb as well as adjacent sod in the case of sod patching.

B. Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to

slopes. The sod shall be rolled with a 500 pound hand roller immediately after placing. C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge of plant or tree trunk.

D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two

inches below the bottom of sod strips. E. Apply fertilizer to the sod as specified in Section 3.5.

F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod.

PLANT BED PREPARATION NOTES

1. In all areas where new sod and shrub and groundcover masses are to be planted, kill all existing weeds by treating with systemic herbicide prior to beginning soil

2. In all shrub and groundcover beds, excavate and backfill soil as described in "Plant List(s)". If no specific preparation is noted, prepare soil as described below for either condition, over the entire area to be planted

Condition A:

If any compacted road base or asphalt or rocky soil is encountered, remove compacted material entirely to allow an 18" depth of planting soil per plant list unless otherwise stated. Backfill the entire area of the shrub and groundcover beds with 18" planting soil (as specified in Plans) to within 2 inches of the adjacent pavement or top of curb. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

Condition B:

Where no compacted soil is encountered, thoroughly mix 6 inches of planting soil per plant list into the existing soil to a depth of 18 inches unless otherwise stated. If required, excavate and remove the existing soil to lower the grade, so that the prepared mix is finished to a minimum of 2 inches below top of curb or adjacent walkway. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

For all sod areas, spread a 2" deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 2 inchs in size and level the grade before sodding. Remove, if required, existing soil so that top of sod is flush with and adjacent top of curb or pavement.

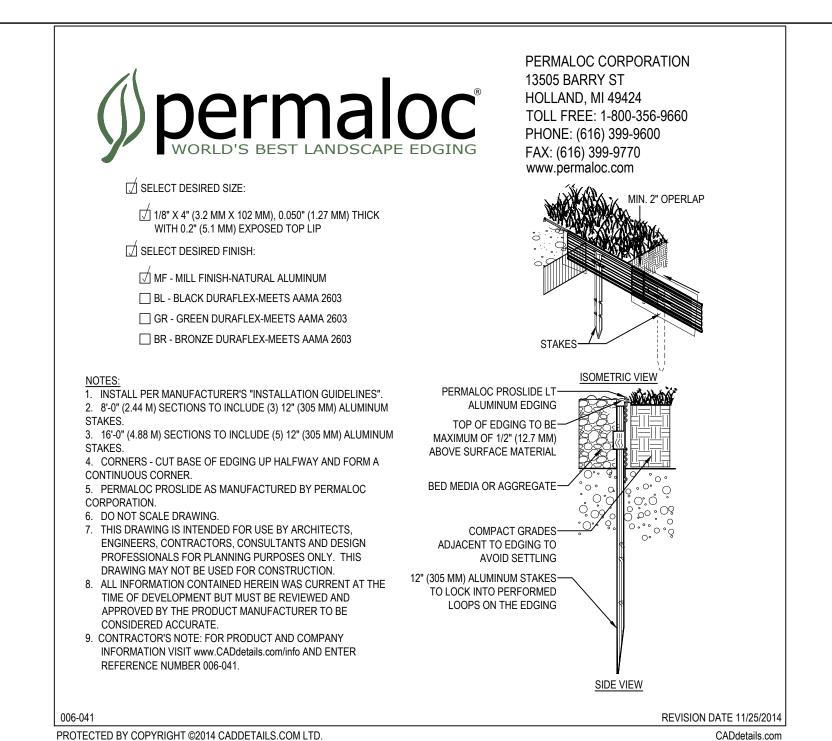
For Trees and shrubs larger than 7 gallon, Add Diehard" transplant innoculant supplied by Horticultural Alliance, Inc. (800-628-6373) or equal. Mix into top 8-10 inches of planting hole, making sure it is contact with the root ball. Add at a rate specified by manufacturer (typically 4oz. per 1 inches of trunk caliper or 7 gallon

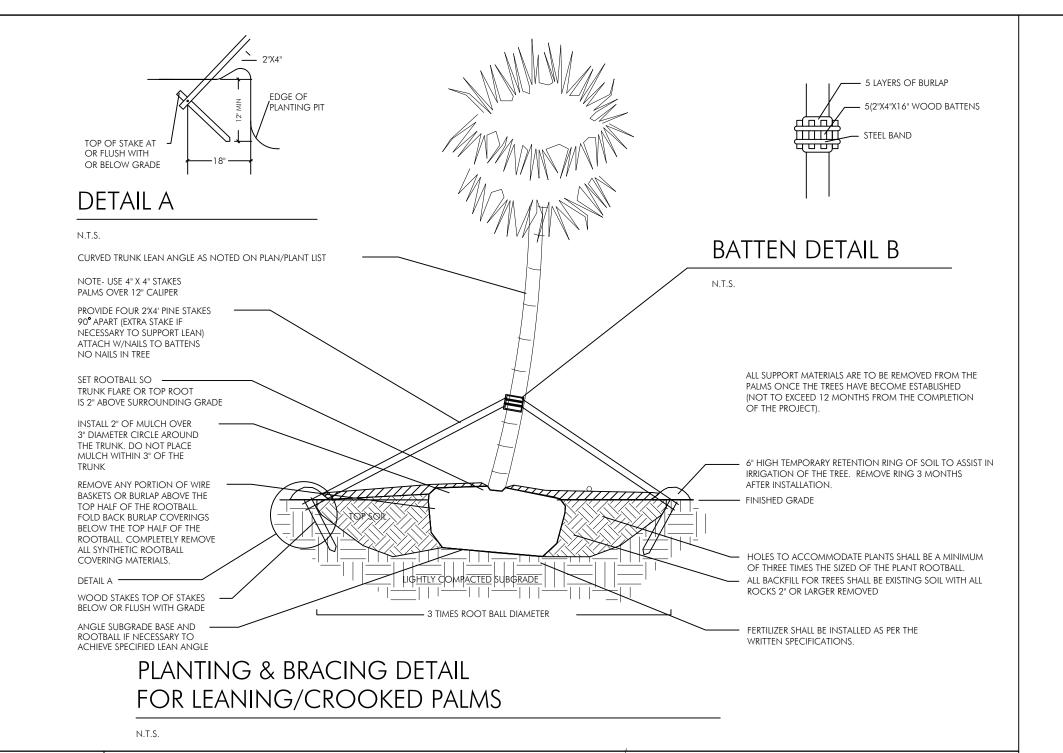
SPACING OF PLANTS (SEE PLANT SPACING DETAIL)

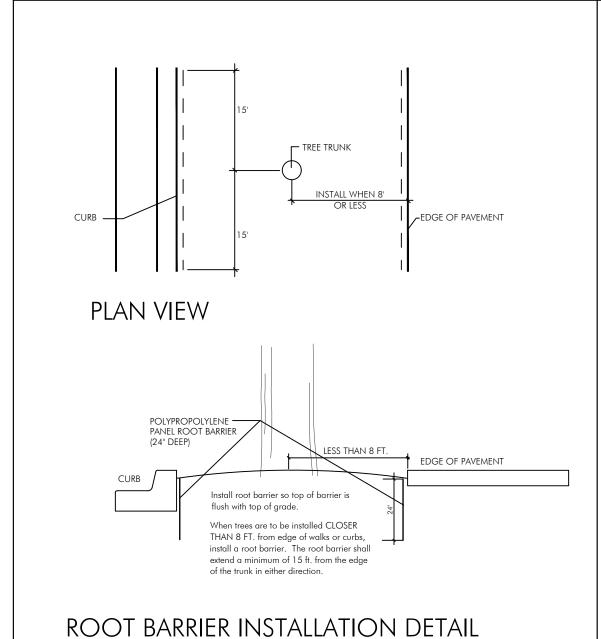
1. Plants shall be planted sufficiently away from edges of pavements or curbs, to allow for growth toward the edges of the bed.

PROTECTION OF PLANTS

1. The Contractor shall be responsible to protect existing trees and shrubs in and adjacent to the area of work. Erect barriers as necessary to keep equipment and materials, any toxic material, away from the canopy drip line of trees and shrubs. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT







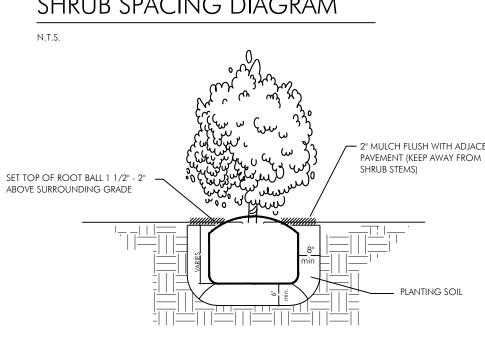
UNDER 3 1/2" CALIPER

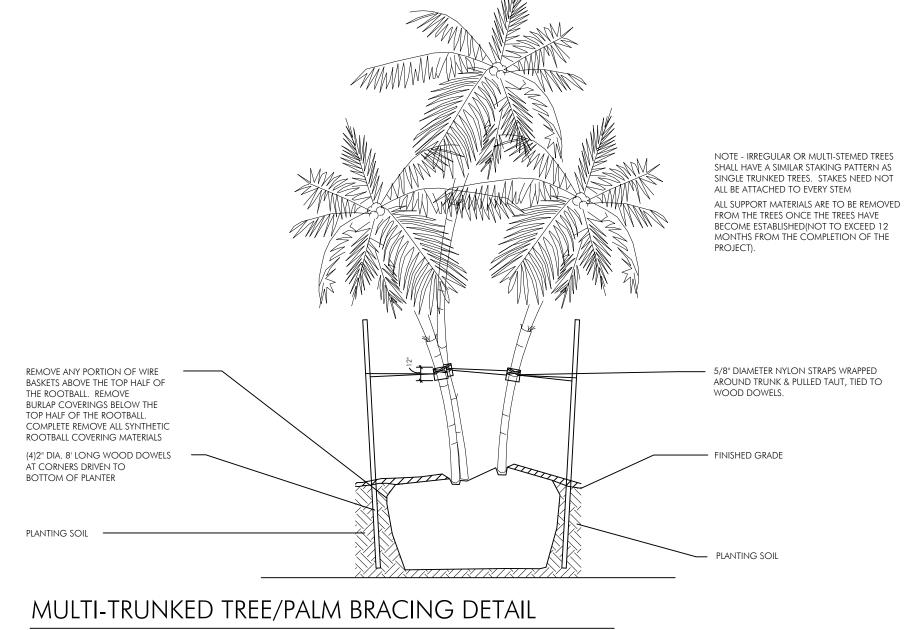
N.T.S.

DISTANCE VARIES FOR EACH SPECIES SPACING ALL, CURB, EDGE OF PAVEMENT, OR EDGE OF BED B" FOR 12"-18" o.c. SPACED SHRUBS 24" FOR 24" o.c. SPACED SHRUBS 3' FOR 36"-48" o.c. SPACED SHRUBS UNLESS OTHERWISE SPECIFIED)

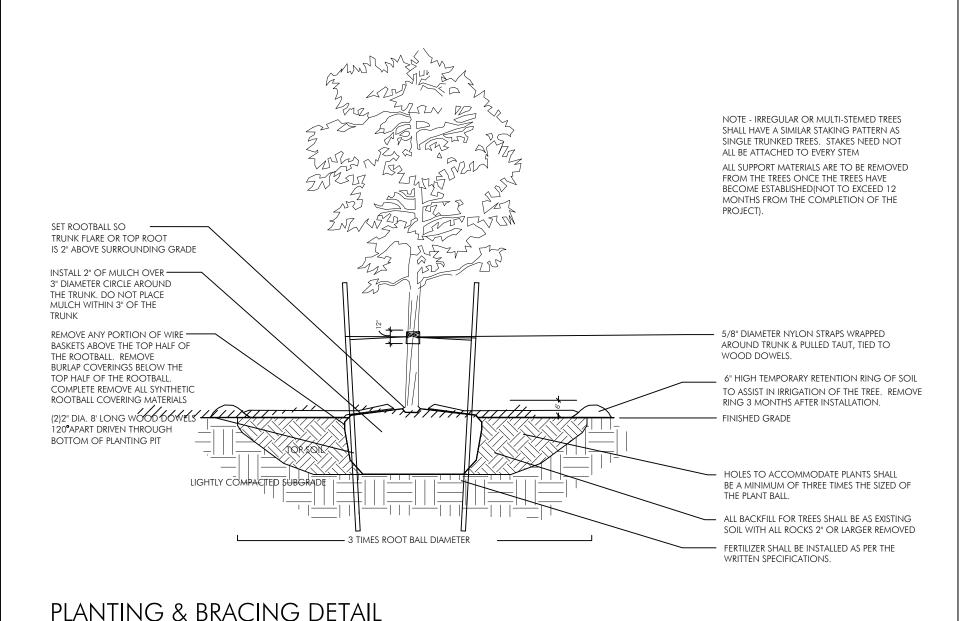
SHRUB SPACING DIAGRAM

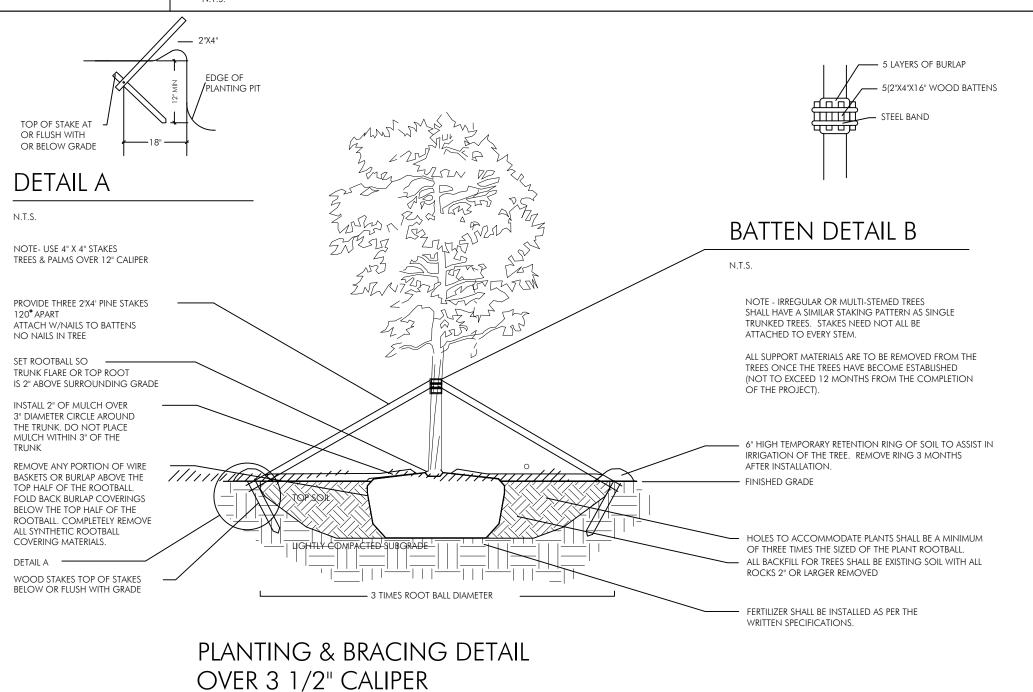
CADdetails.com





SHRUB INSTALLATION DETAIL

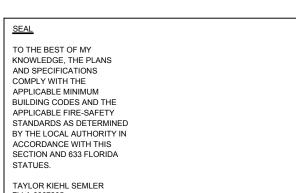




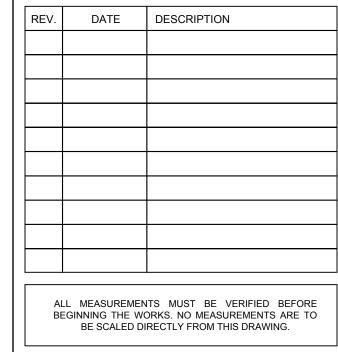


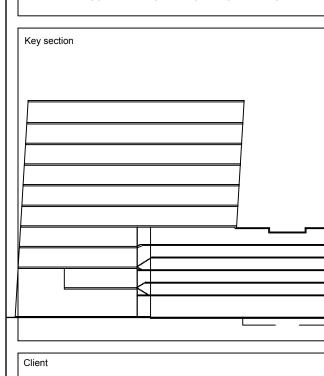
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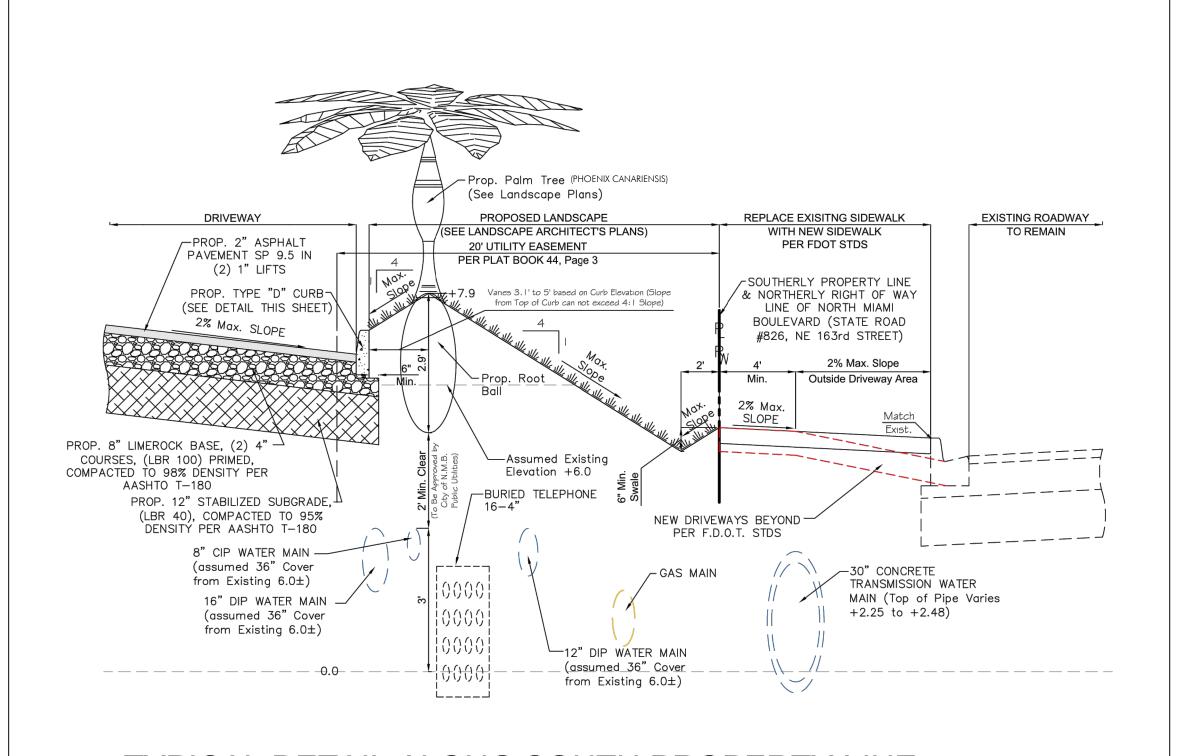
CANAL PARK OFFICE 2

CANAL PARK WEST TOWER 3227 North Miami Beach, FL 33160

PLANTING SPECIFICATIONS, NOTES, AND DETAILS LANDSCAPE TKS **ARCHITECTURE** as shown 05-24-2021 **KEG**

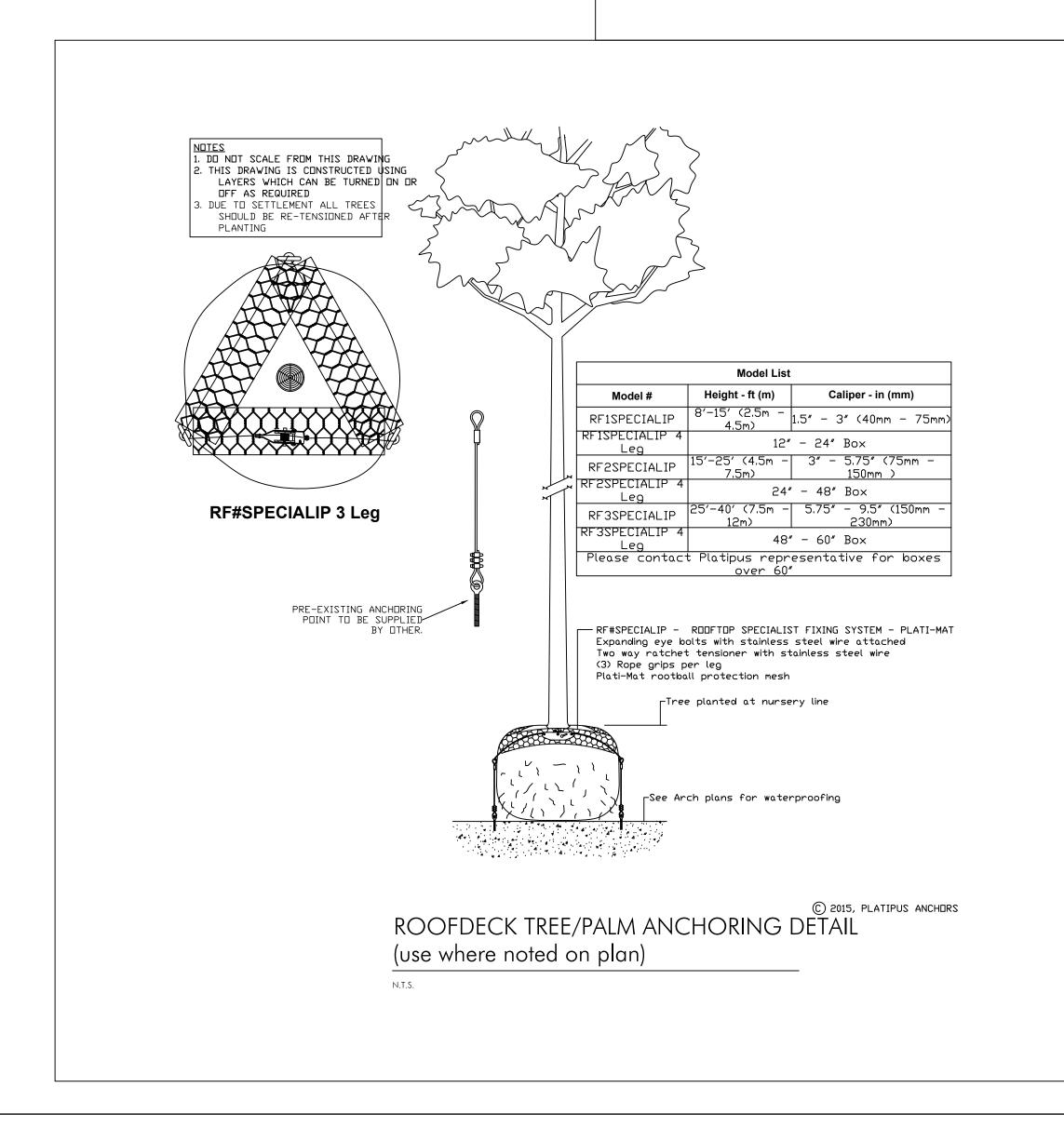
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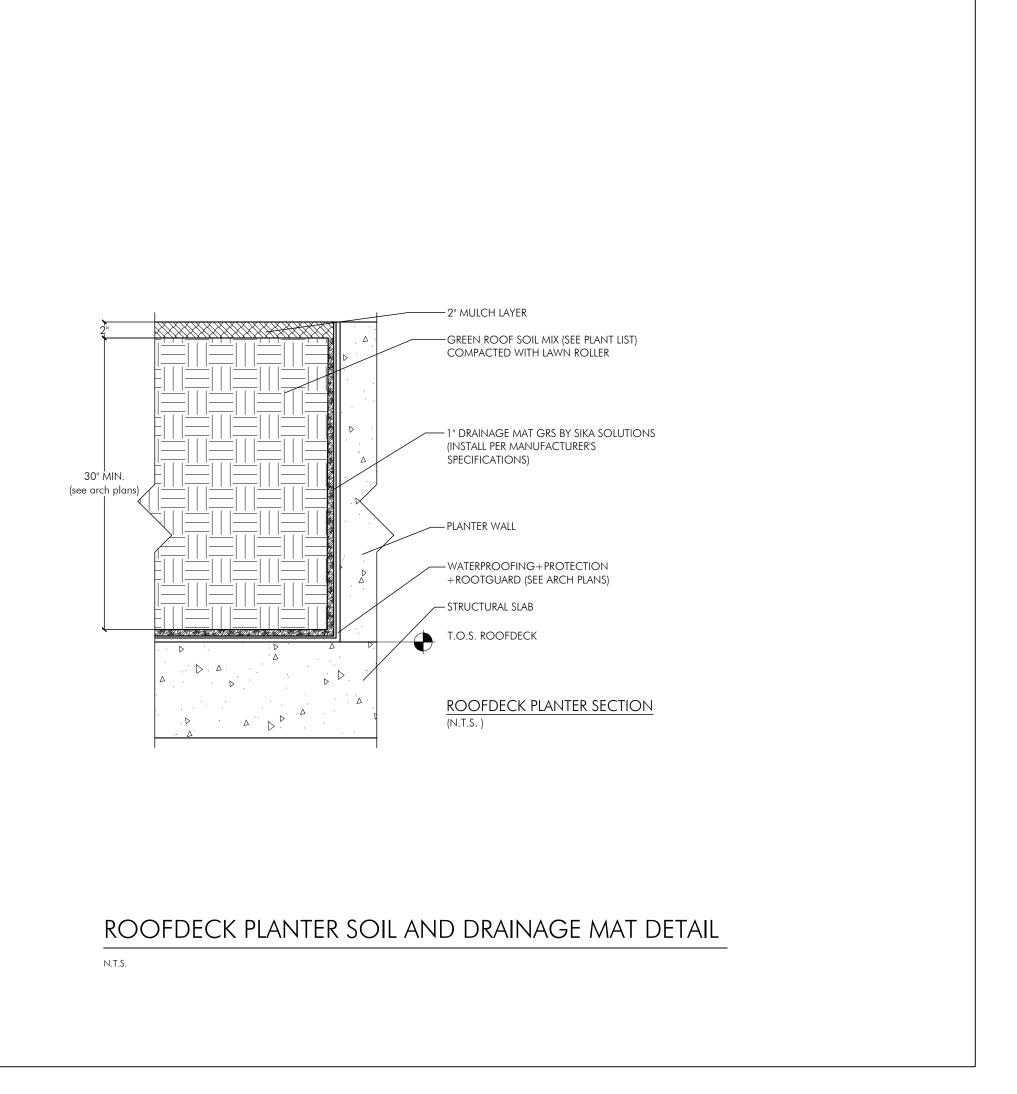
B. Install per details in the plans.



TYPICAL DETAIL ALONG SOUTH PROPERTY LINE

Scale: 1" = 5' Horizontal & 1" = 2' Vertical







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CANAL PARK

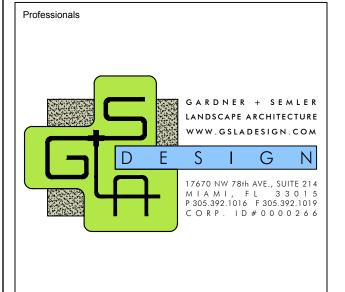
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SEAL

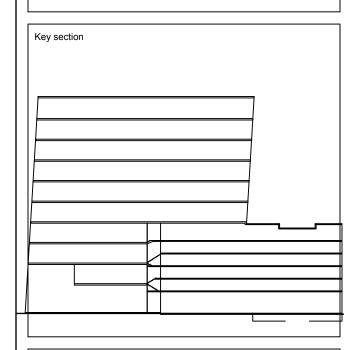
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TAYLOR KIEHL SEMLER
FLLA 6667205



R	REV.	DATE	DESCRIPTION

ALL MEASUREMENTS MUST BE VERIFIED BEFORE BEGINNING THE WORKS. NO MEASUREMENTS ARE TO BE SCALED DIRECTLY FROM THIS DRAWING.



Client

CANAL PARK OFFICE 2

CANAL PARK WEST TOWER

3227 North Miami Beach, FL 33160

Project Manager

Project
16-839US

Dwg. no.

LA-302

