CONSTRUCTION PLANS FOR:



DELRAY BEACH

1820 SOUTH FEDERAL HIGHWAY DELRAY BEACH, FLORIDA 33483

PROJECT TEAM

PROPERTY OWNER:

1820 FEDERAL DELRAY, LLC. 729 NW 7TH STREET BOCA RATON, FLORIDA 33486-3507

PROPERTY DEVELOPER:

FIFTH THIRD BANK, NATIONAL ASSOCIATION 38 FOUNTAIN SQUARE PLAZA, MD 10903K CINCINNATI, OHIO 45202 PH: (513) 579-5203

SURVEYORS

PH: (954) 572-1777

PULICE LAND SURVEYORS, INC. 5381 NOB HILL ROAD SUNRISE, FLORIDA 33351

CONTACT: JOHN F. PULICE EMAIL: SURVEYS@PULICEANDSURVEYORS.COM

GEOTECI

PROFESSIONAL SERVICES INDUSTRIES, INC. 6500 NW 12TH AVENUE, SUITE 116 FORT LAUDERDALE, FLORIDA 33309 PH: (954) 267-0965

ENGINEERS NOTE

IT IS THE RESPONSIBILITY OF THE OWNER'S ENGINEER TO PROVIDE SITE OBSERVATION AND INSPECTIONS IN ORDER FOR THE OWNERS ENGINEER TO EXECUTE THE "ENGINEERS CERTIFICATION OF COMPLETION" EXACTLY AS STATED ON PAGE C-14 FROM THE CITY OF DELRAY BEACH CURRENT MINIMUM CONSTRUCTION STANDARDS AND SPECIFICATIONS.

INFINITY ENGINEERING GROUP, LLC

550 SOUTH CALDWELL STREET SUITE 1800

CHARLOTTE, NORTH CAROLINA 28202

1208 EAST KENNEDY BOULEVARD

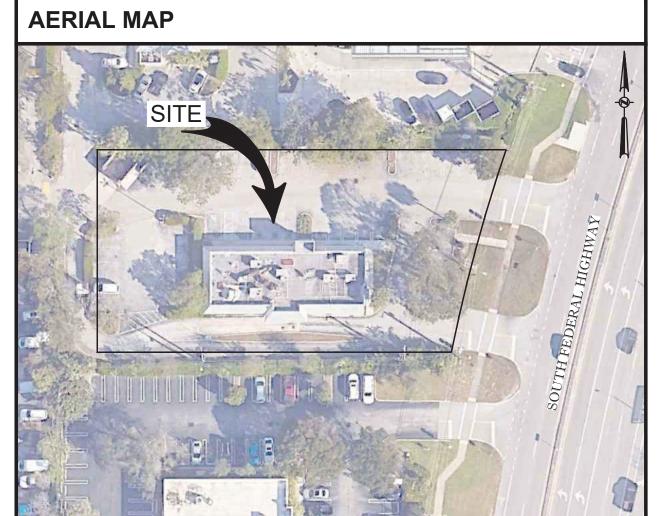
CONTACT: NISIT SAPPARKHAO

TAMPA, FLORIDA 33602

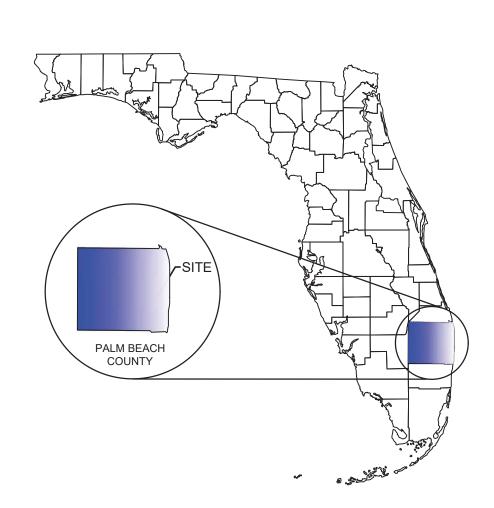
PH: (813) 434-4770

SUITE 230

VICINITY MAP EAST LINTON BOULEVARD F. Linton Blvd SITE Chick-fil-A Prick-fil-A Prick-fil-A



PARCEL ID: 12-43-46-28-11-002-0020 PALM BEACH COUNTY, FLORIDA

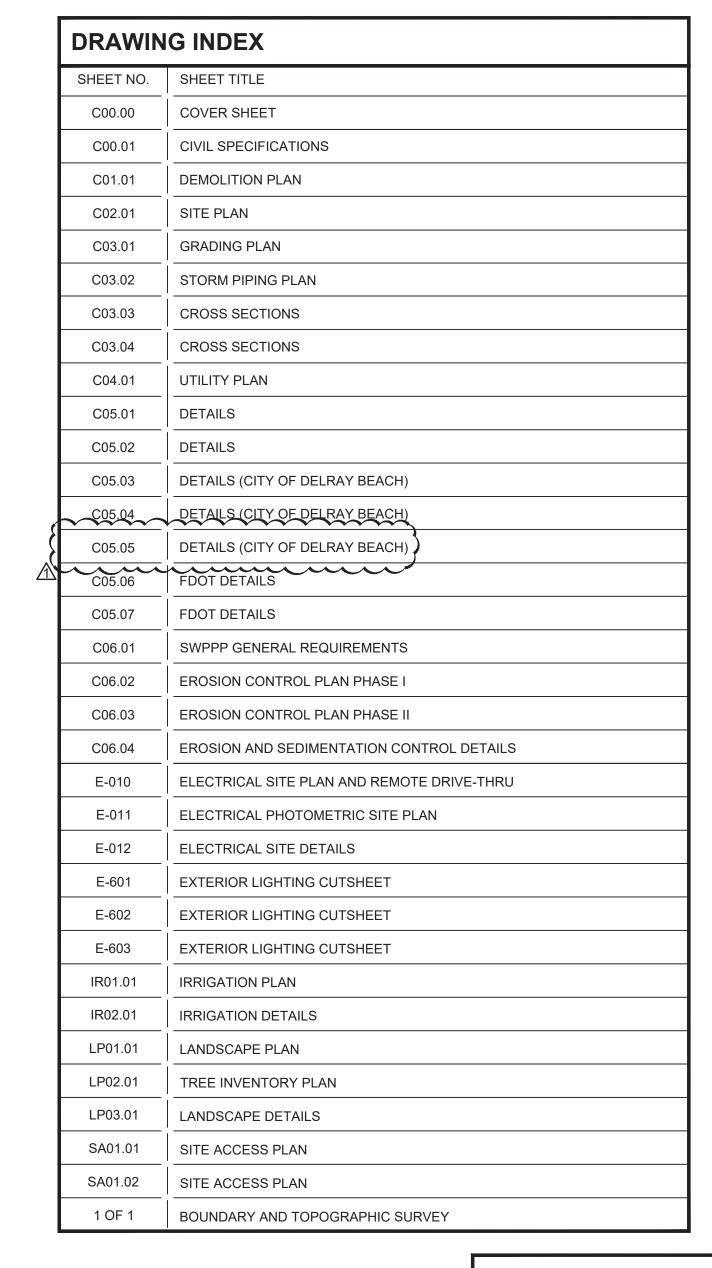




1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No. 27889

IEG JOB NO. 15-386.00





SHEET

C00.00



GENERAL NOTE

- 1. ALL CONSTRUCTION SHALL BE EXECUTED AS SHOWN ON THESE PLANS. ANY REVISIONS AND/OR DEVIATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND MAY RESULT IN ADDITIONAL PERMITTING EFFORTS THROUGH THE RELATED PERMITTING AGENCY. THE CONTRACTOR SHALL ACKNOWLEDGE THAT REVISIONS AND/OR DEVIATIONS MAY RESULT IN ADDITIONAL PERMITTING REQUIREMENTS AND POSSIBLY AFFECT SCHEDULING OF WORK.
- UNLESS OTHERWISE NOTED ON PLANS, OR WITHIN THE PROJECT SPECIFICATIONS, ALL MATERIALS AND CONSTRUCTION ARE TO BE IN ACCORDANCE WITH DESIGN AND CONSTRUCTION STANDARDS OF THE PERMITTING AGENCY HAVING JURISDICTION: THE LOCALLY ADOPTED BUILDING CODE; AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- 3. PERMITS MAY BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS TO ACKNOWLEDGE AND SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
- 4. THIS PARCEL OF LAND MAY BE SUBJECT TO ANY AND ALL RECORDED (AND POSSIBLY UNRECORDED) EASEMENTS, RESTRICTIONS, AND COVENANTS.
- 5. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CALL AREA ONE CALL SYSTEM 48 HOURS PRIOR TO ANY EXCAVATION.
- 6. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IN A TIMELY MANNER.
- 7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS AND BENCHMARKS FROM DISTURBANCE. SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED AND ADJUSTED VIA A LAND SURVEYOR REGISTERED IN THE STATE FOR WHICH THE PROJECT IS LOCATED.
- 8. THE CONTRACTOR SHALL COORDINATE WORK EFFORTS WITH THE OWNER TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF THE FACILITIES.
- 9. NO BLASTING OR BURNING IS ALLOWED ON THE PROJECT, UNLESS OTHERWISE DIRECTED OR NOTED BY THE ENGINEER.
- 10. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED. HOWEVER IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ENGINEER AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

REGULATORY STANDARDS AND REQUIREMENTS

- 1. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING
- 2. COMPLY WITH ANSI A10.6, "SAFETY REQUIREMENTS FOR CONSTRUCTION AND DEMOLITION.'
- 3. COMPLY WITH NFPA 241, "SAFEGUARDING CONSTRUCTION, ALTERATION AND **DEMOLITION OPERATIONS."**

DEMOLITION AND CLEARING

- DEMOLITION AND CLEARING OPERATIONS SHALL CONFORM TO APPLICABLE REGULATIONS RELATING TO ENVIRONMENTAL REQUIREMENTS DISPOSAL OF DEBRIS, BURNING OF DEBRIS ON SITE, AND USE OF HERBICIDES.
- 2. DEMOLITION WASTE SHALL BE DISPOSED OF IN A LEGAL MANNER. REMOVED DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND DISPOSE OF WASTE IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. DO NOT BURY OR BURN DEMOLITION WASTE ON-SITE.
- HISTORIC ITEMS, RELICS, ANTIQUES, AND SIMILAR OBJECTS, INCLUDING, BUT NOT LIMITED TO CORNERSTONES AND THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, AND OTHER ITEMS OF INTEREST OF VALUE TO OWNER THAT MAY BE UNCOVERED DURING DEMOLITION REMAIN THE PROPERTY OF THE
- ARRANGE DEMOLITION SCHEDULE SO AS NOT TO INTERFERE WITH OWNER'S ON-SITE OPERATIONS OR OPERATIONS OF ADJACENT OCCUPIED BUILDINGS.
- 5. CONDUCT BUILDING DEMOLITION AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, WALKWAYS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.
- 6. AUTHORITY FOR PERFORMING SITE CLEARING INDICATED ON PROPERTY ADJOINING OWNER'S PROPERTY MUST BE OBTAINED BY OWNER PRIOR TO COMMENCEMENT OF CLEARING. DO NOT PROCEED WITH WORK ON ADJOINING PROPERTY UNTIL DIRECTED BY ENGINEER.
- 7. PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS: a. VERIFY THAT HAZARDOUS MATERIALS, IF PRESENT, HAVE BEEN REMEDIATED. b. REVIEW PROJECT RECORD DRAWINGS OF EXISTING BUILDING AND EXISTING

SITE IMPROVEMENTS.

- c. INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND SALVAGED. TAKE DIGITAL PHOTOGRAPHS OR VIDEO OF PROJECT SITE AND SURROUNDING PROPERTIES, INCLUDING EXISTING ITEMS TO REMAIN DURING CONSTRUCTION OPERATIONS, RECORD CONDITIONS THAT MIGHT BE
- MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE OPERATIONS. d. CLEAN, PACK, IDENTIFY, AND TRANSPORT SALVAGED ITEMS TO STORAGE AREA DESIGNATED BY OWNER.
- e. REMOVE REFRIGERANT FROM THE MECHANICAL EQUIPMENT ACCORDING TO 40 CFR 82 AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. f. COORDINATE ANY ADDITIONAL REQUIREMENTS FOR DEMOLISHING OR RELOCATING SITE MECHANICAL AND ELECTRICAL ITEMS WITH OWNER AND
- g. ASSURE THAT ANY REQUIRED INITIAL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND IN WORKING ORDER.

OTHER AUTHORITIES HAVING JURISDICTION.

- h. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP-OFF EXISTING UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED. CUT AND REMOVE PIPE OR CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE. CAP, VALVE, PLUG AND SEAL REMAINING PORTION OF PIPE OR CONDUIT. i. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTION AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
- 8. PRIOR TO COMMENCEMENT OF SITE CLEARING OPERATIONS, VERIFY THE
- FOLLOWING: a. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE
- AND IN WORKING ORDER. b. UTILITY LOCATOR SERVICE HAS DETERMINED AND FLAGGED THE LOCATION
- OF UNDERGROUND UTILITIES.
- c. EXISTING SITE IMPROVEMENTS AND UTILITIES TO REMAIN HAVE BEEN PROTECTED.
- d. BENCHMARKS AND SURVEY CONTROL POINTS HAVE BEEN PROTECTED FROM DISTURBANCE
- e. TREES AND VEGETATION TO REMAIN (OR TO BE RELOCATED) HAVE BEEN LOCATED AND CLEARLY FLAGGED IN ACCORDANCE WITH TREE PROTECTION AND TRIMMING REQUIREMENTS.
- 9. COORDINATE UTILITY DEMOLITION AND ABANDONMENT WITH UTILITY COMPANY OR AUTHORITY HAVING JURISDICTION.
- 10. IN THE EVENT BUILDINGS IMMEDIATELY ADJACENT TO THE DEMOLITION AREA WILL BE OCCUPIED, CONDUCT SITE DEMOLITION SO OPERATIONS OF OCCUPIED

- BUILDINGS WILL NOT BE DISRUPTED. MAINTAIN ACCESS TO AND FROM EXISTING WALKWAYS, EXITS, AND OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT
- 11. PROTECT EXISTING FACILITIES AND ADJACENT WALKWAYS, LOADING DOCKS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS.
- 12. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, AS NECESSARY, AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
- 13. PROTECT EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION OPERATIONS. MAINTAIN OPERATION OF UTILITY SERVICES TO REMAIN. PROVIDE AT LEAST 72 HOURS' NOTICE TO OCCUPANTS OF AFFECTED BUILDINGS IF SHUTDOWN OF SERVICE IS REQUIRED.
- 14. IF REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, MAINTAIN CONTINUITY OF SERVICE TO ADJACENT BUILDINGS BY PROVIDING TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED. TEMPORARY BYPASS SERVICES SHALL BE PROVIDED IN ACCORDANCE WITH UTILITY COMPANY OR AUTHORITIES HAVING JURISDICTION.
- 15. TEMPORARY SHORING: PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF EXISTING IMPROVEMENTS BEING DEMOLISHED. ALL SHORING OPERATIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL AND INSTALLED PER OSHA REQUIREMENTS.
- 16. DEMOLITION OF STRUCTURAL FRAMING MEMBERS SHALL PROCEED SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL. COMPLETE BUILDING DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL. REMOVE DEBRIS FROM ELEVATED PORTIONS OF THE BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS
- 18. CLEARING AND GRUBBING:
- a. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. DO NOT REMOVE TREES. SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE
- RELOCATED. b. CUT MINOR ROOTS AND BRANCHES OF TREES INDICATED TO REMAIN IN A CLEAN AND CAREFUL MANNER AND ONLY WHERE SUCH ROOTS AND BRANCHES OBSTRUCT INSTALLATION OF NEW CONSTRUCTION.
- c. CLEAR UNDERGROWTH AND DEADWOOD WITHOUT DISTURBING SUBSOIL. d. GRIND STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS EXTENDING TO A DEPTH BELOW EXPOSED SUBGRADE AS FOLLOWS: FOOTINGS, SLABS ON GRADE AND BOTTOM SLABS OF STRUCTURES: 36
- INCHES. ROADS AND PAVEMENT AREAS: 18 INCHES.
- AREAS TO BE GRASSED OR LANDSCAPED: 8 INCHES.
- AREAS TO BE FILLED: 12 INCHES.

TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND.

- e. USE ONLY HAND METHODS FOR GRUBBING WITHIN TREE PROTECTION ZONES. f. CHIP REMOVED TREE BRANCHES AND DISPOSE OF OFF-SITE.
- g. UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL. PLACE FILL MATERIAL IN HORIZONTAL LAYERS

NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER

- a. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL b. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS. REMOVE SUBSOIL AND NON-SOIL MATERIALS FROM TOPSOIL
- INCLUDING TRASH, DEBRIS, WEEDS, ROOTS, AND OTHER WASTE MATERIALS. c. STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST. LIMIT HEIGHT OF TOPSOIL STOCKPILES TO 72 INCHES. DO NOT STOCKPILE TOPSOIL WITHIN TREE PROTECTION ZONES. STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RESPREADING DEEPER TOPSOIL.
- 20. SITE IMPROVEMENTS:
- a. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. REMOVE SLABS,

PAVING, CURBS, GUTTERS, AND AGGREGATE BASE AS INDICATED.

b. UNLESS EXISTING FULL-DEPTH JOINTS COINCIDE WITH LINE OF DEMOLITION, NEATLY SAW-CUT LENGTH OF EXISTING PAVEMENT TO REMAIN BEFORE REMOVING EXISTING PAVEMENT, SAWCUT ALL FACES VERTICALLY c. PAINT CUT ENDS OF STEEL REINFORCEMENT IN CONCRETE TO REMAIN TO PREVENT CORROSION

- a. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND
- DEBRIS. AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. b. REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER THAT WILL PREVENT SPILLAGE ON STREETS OR ADJACENT AREAS. CLEAN UP SPILLAGE FROM STREETS AND ADJACENT AREAS.
- c. COMPLY WITH FEDERAL, STATE AND LOCAL HAULING AND DISPOSAL REGULATIONS
- d. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NON-RECYCLABLE STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES.

TREE PROTECTION AND TRIMMING

- INSTALL TEMPORARY FENCING AROUND TREE PROTECTION ZONES TO PROTECT TREES AND VEGETATION DESIGNATED TO REMAIN FROM CONSTRUCTION DAMAGE. MAINTAIN TEMPORARY FENCING AROUND TREE PROTECTION ZONES. AND REMOVE WHEN CONSTRUCTION IS COMPLETE.
- 2. KEEP TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.
- 3. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL INSIDE TREE PROTECTION ZONE; OR PERMIT VEHICLES OR FOOT TRAFFIC WITHIN TREE PROTECTION ZONE, OR ALLOW FIRES WITHIN TREE PROTECTION
- 4. PROTECT TREE ROOT SYSTEMS FROM THE FOLLOWING:
- a. DAMAGE CAUSED BY RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIALS; b. DAMAGE CAUSED BY PONDING, ERODING, OR EXCESSIVE WETTING FROM DEWATERING OPERATIONS.
- UNLESS OTHERWISE INDICATED, DO NOT EXCAVATE WITHIN TREE PROTECTION ZONES. WHERE EXCAVATION FOR NEW CONSTRUCTION IS UNAVOIDABLE, HAND CLEAR AND EXCAVATE TO MINIMIZE DAMAGE TO ROOT SYSTEMS.
- 6. WHERE UTILITY TRENCHES ARE UNAVOIDABLE WITHIN TREE PROTECTION ZONES, TUNNEL UNDER OR AROUND ROOTS BY DRILLING, AUGER BORING, PIPE JACKING, OR DIGGING BY HAND. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS
- PROMPTLY REPAIR TREES DAMAGED BY CONSTRUCTION OPERATIONS WITHIN 24 HOURS. TREAT DAMAGED TRUNKS, LIMBS, AND ROOTS ACCORDING TO

- ARBORIST'S WRITTEN INSTRUCTIONS.
- TREE PRUNING: PRUNE TREES ACCORDING TO ANSI A300 (PART 1), 'TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES

EROSION AND SEDIMENTATION

- PRIOR TO COMMENCEMENT OF ANY CLEARING AND EXCAVATION WITHIN A WORK AREA, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND IN WORKING ORDER.
- PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE AND FIELD QUALITY CONTROL: FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
- 3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL FEATURES TO PREVENT AND CONTROL SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION AREAS AND ENTERING EXISTING STORMWATER FACILITIES AND SURFACE WATERS. ADDITIONAL MEASURES BEYOND THOSE SHOWN WITHIN THESE PLANS MAY BE NECESSARY DURING CONSTRUCTION, INCLUDING TEMPORARY VEGETATIVE MEASURES AND INSTALLATION OF OTHER SILT TRAPPING MEASURES.
- THE CONTRACTOR IS REQUIRED TO ADJUST THE EROSION AND SEDIMENT CONTROLS AS NECESSARY AND AS SHOWN ON THE DRAWINGS: AND ADD ADDITIONAL CONTROL MEASURES AS REQUIRED TO INSURE THE SITE MEETS ALL FEDERAL STATE AND LOCAL FROSION AND SEDIMENT CONTROL REQUIREMENTS.
- ALL BEST MANAGEMENT EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY OPERATIONS; OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST EVERY OTHER WEEK AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR
- ALL BEST MANAGEMENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

- IN THE EVENT OF ANY UNFORESEEN CONDITIONS THAT ARE ENCOUNTERED AND NOT COVERED BY THESE NOTES DURING GRADING OPERATIONS, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND RELATED OFF-SITE WORK SO AS TO ESTABLISH THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SPECIFIED WITHIN THE PLANS.
- ADEQUATE SHORING IS TO BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION. ALL SHORING AND ASSOCIATED TEMPORARY STRUCTURES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL AND INSTALLED PURSUANT TO OSHA REQUIREMENTS.

- 1. UNSATISFACTORY SOILS CONSIST OF SOIL CLASSIFICATION GROUPS ML, OL, CH, MH, OH, AND PT, OR A COMBINATION OF THESE GROUPS. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
- SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS AS IDENTIFIED ON THE DRAWINGS, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL.

- PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. a. COMPLETELY PROOF-ROLL SUBGRADE IN TWO DIRECTIONS, REPEATING PROOF ROLLING IN DIRECTION PERPENDICULAR TO FIRST DIRECTION. LIMIT VEHICLE SPEED TO 3 MPH,
 - b. PROOF-ROLL WITH A LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS. c. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS. AND AREAS OF EXCESSIVE
 - PUMPING OR RUTTING, AS DETERMINED BY ENGINEER AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
- RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES AS DIRECTED BY ENGINEER, WITHOUT ADDITIONAL COMPENSATION.

- THE CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY BUT NOT BEFORE COMPLETING THE FOLLOWING: a. CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, SUBDRAINAGE, DAMP PROOFING, WATERPROOFING, AND PERIMETER INSULATION.
- b. SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD DRAWINGS
- c. TESTING AND INSPECTING UNDERGROUND UTILITIES.
- d. REMOVING CONCRETE FORMWORK
- e. REMOVING TRASH AND DEBRIS.
- f. REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING. g. INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON
- HORIZONTALLY SUPPORTED WALLS.

COMPACTION OF SOIL BACKFILLS AND FILLS:

- CONTRACTOR SHALL PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- 2. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
- COMPACT SOIL MATERIALS TO NOT LESS THAN THE PLAN SPECIFIED PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 OR ASTM D 1557. (SEE CIVIL DETAILS FOR SUMMARY OF TRENCH BACKFILL AND BEDDING MATERIALS AND PLACEMENT SPECIFICATIONS).

- GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE. FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO DETAILED/INDICATED CROSS-SECTIONS. LINES, AND ELEVATIONS INDICATED IN PLANS. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
- SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES: a. LAWN OR UNPAVED AREAS: PLUS OR MINUS ONE (1) INCH.
- b. WALKS: PLUS OR MINUS ONE (1) INCH. c. PAVEMENTS: PLUS OR MINUS ONE-HALF (1/2) INCH. d. GRADING INSIDE BUILDING LINES: FINISH SUBGRADE TO A TOLERANCE OF

- ONE-HALF (1/2) INCH WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE.
- SUBBASE AND BASE COURSES: a. PLACE SUBBASE AND BASE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.
- b. PLACE SUBBASE AND BASE COURSE 6 INCHES OR LESS IN COMPACTED THICKNESS IN A SINGLE LAYER.
- c. PLACE SUBBASE AND BASE COURSE EXCEEDING 6 INCHES IN COMPACTED THICKNESS IN LAYERS OF EQUAL THICKNESS, WITH NO COMPACTED LAYER MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES.
- COMPACT SUBBASE AND BASE COURSE AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES. CROSS SECTIONS. AND THICKNESS ACCORDING TO ASTM D 698 OR ASTM D 1557, AS INDICATED ON THE DRAWING DETAILS.

- THE TESTING AGENCY WILL INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. CONTRACTOR SHALL PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS.
- FOOTING SUBGRADE: AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED TO VERIFY DESIGN BEARING CAPACITIES. SUBSEQUENT VERIFICATION AND APPROVAL OF OTHER FOOTING SUBGRADES MAY BE BASED ON A VISUAL COMPARISON OF SUBGRADE WITH TESTED SUBGRADE WHEN APPROVED BY ENGINEER.
- THE TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES: a. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST FOR EVERY 10,000 SQ. FT. OR LESS OF
- b. FOUNDATION WALL BACKFILL: AT EACH COMPACTED BACKFILL LAYER, AT LEAST 1 TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH, BUT NO FEWER THAN 2 TESTS. c. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER,

AT LEAST 1 TEST FOR EACH 150 FEET OR LESS OF TRENCH LENGTH, BUT NO

PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN 3 TESTS.

- IF THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED;
- ALL FIELD QUALITY CONTROL TESTS THAT FAIL TO MEET THE SPECIFIED COMPACTION DENSITY SHALL BE REPORTED TO THE ENGINEER.

RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.

GENERAL UTILITY NOTES

FEWER THAN 2 TESTS.

- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CALL THE AREA ONE CALL SYSTEM 48 HOURS PRIOR TO ANY
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WORK EFFORTS WITH THE OWNER TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF THE FACILITIES.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEYING MONUMENTS AND BENCHMARKS FROM DISTURBANCE. SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED AND ADJUSTED VIA A LAND SURVEYOR REGISTERED IN THE STATE FOR WHICH THE PROJECT IS LOCATED.
- EXISTING UTILITIES SHOWN HEREIN ARE BASED ON AVAILABLE RECORDS AND FIELD INVESTIGATIONS. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO EXCAVATION WITHIN WORK AREAS. THE ENGINEER SHALL BE NOTIFIED UPON DISCOVERY OF ANY DISCREPANCIES THAT WILL AFFECT INSTALLATION OF WORK OR DISCOVERY OF JNCHARTED UTILITIES WHICH MAY REQUIRE RELOCATION. NOTIFICATION SHALL BE DONE IN A TIMELY MANNER.
- WHERE APPLICABLE, THE CONTRACTOR SHALL MAINTAIN ALL FENCING, SIGNS. DETOURS, FLAGMEN, SIGNALS, ETC., FOR ANY OPEN TRENCHES, HOLES OR PITS. ALL TRENCHES, HOLES OR PITS SHALL BE CLOSED OR PROTECTED BY BARRICADES AT THE END OF THE DAY.
- PERMITS MAY BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE 5. CONTRACTOR IS TO ACKNOWLEDGE AND SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK WITHIN PUBLIC RIGHT-OF-WAY.

8. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING

- CONSTRUCTION WHICH SHOW THE CONSTRUCTED CONDITIONS OF ALL WORK INSTALLED. SEE "AS-BUILT" REQUIREMENTS FOR ADDITIONAL INFORMATION. 9. ALL VALVE BOXES, METER BOXES, VAULTS, CLEANOUTS, HOLE COVERS, FIRE HYDRANTS AND OTHER APPURTENANCES THAT ARE TO REMAIN IN SERVICE
- ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS

WITHIN THE PROJECT AREA SHALL BE ADJUSTED TO CONFORM TO FINISHED

- REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION. 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR
- DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:
- GAS TELEPHONE
- CABLE
- POWER
- CITY/COUNTY WATER AND SEWER 6. CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY (FIBER, HARDWIRE TRAFFIC SIGNAL INTERCONNECT)
- 13. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FROM THE BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS ACCURACY. UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE OF THESE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL
- 14. COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES

WHITE - PROPOSED EXCAVACTION. PINK - TEMPORARY SURVEY MARKINGS. RED - ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES. YELLOW - GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS. ORANGE - COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT. BLUE - POTABLE WATER. PURPLE - RECLAIMED WATER, IRRIGATION AND SLURRY LINES. GREEN - SEWERS AND DRAIN LINES.

WATER SYSTEM NOTES

- A VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND WATER MAINS. IF CLEARANCE CANNOT BE ACHIEVED BY ADJUSTING WATER MAINS THE SANITARY SEWER SHALL BE CONSTRUCTED PER SANITARY NOTE No. 1 BELOW.
- A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
- ALL BURIED DUCTILE IRON PIPE SHALL BE CLASS 53 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED, STANDARD THICKNESS, AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A (AWWA C 104-71).
- ALL BURIED FITTINGS LARGER THAN 2" SHALL BE DUCTILE IRON CLASS 53 IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 PSI. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA
- CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER

SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.

- THRUST BLOCKING AND/OR RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.
- ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241, AND COLOR CODED BLUE.

11. ALL FITTINGS 3" AND SMALLER SHALL BE CLASS 160 PVC WITH SOLVENT WELDED

SLEEVE TYPE JOINTS. 12. ALL WATER MAINS AND WATER SERVICES TO BE INSTALLED UNDER ROAD

UNDERDRAIN SHALL MAINTAIN 18" SEPARATION.

- 13. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY DEPARTMENT OF PUBLIC UTILITIES.
- ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT AND AWWA SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
- CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING REQUIRED TO OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM THROUGH LOCAL REGULATORY AGENCIES. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER

SANITARY SEWER NOTES

- A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER.
- ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 26 AND COLOR CODED GREEN.
- ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO

EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY

- LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. PVC PIPE AND FITTINGS SHALL CONFORM WITH A.S.T.M. SPECIFICATIONS DESIGNATION D-3034-77C. MA SDR 26. INSTALLATION OF SDR PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. SPECIFICATION
- ALL PVC FORCE MAINS WITHIN PUBLIC R/W SHALL BE CLASS 200, SDR 18, WITH MECHANICAL JOINTS, AND HAVE A GREEN MAGNETIC TAPE A MINIMUM OF 3"
- TAPE SHOULD READ "FORCE MAIN". ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT

DESIGNATION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN

WIDE, PLACED 24" BELOW THE PROPOSED GRADE. THE PRINT ON THE MAGNETIC

- REQUIRE D.I.P. ARE TO BE POLYLINED OR EPOXY LINED. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
- SANITARY SEWERS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET AND SHALL BE INSTALLED ACCOMPANIED BY A METAL TAPE SIMILAR TO "TERRATAPE" COLORED GREEN AND LAID ONE FOOT ABOVE THE PIPE.
- ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION. 11. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL

GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING

JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND

NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY. 12. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL COORDINATION AND NOTIFICATION OF ALL

SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND

GEOTECHNICAL NOTE

PARTIES IS CONTRACTOR'S RESPONSIBILITY.

CONTRACTOR TO REVIEW AND FOLLOW CONSTRUCTION TECHNIQUES OUTLINED IN THE SITE GEOTECHNICAL REPORT

STORM DRAINAGE

- UNLESS OTHERWISE SHOWN ON PLANS, ALL PVC PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
- a. PVC SEWER PIPE AND FITTINGS, NPS 15-INCH AND SMALLER ASTM D 3034, SDR 35, WITH BELL-AND-SPIOT ENDS FOR GASKETED JOINTS USING ASTM F
- 477 FLASTOMERIC SEALS b. PVC SEWER PIPE AND FITTINGS, NPS 18-INCH AND LARGER: ASTM F 679, T-1 WALL THICKNESS, WITH BELL-AND-SPIGOT ENDS FOR GASKETED JOINTS
- 2. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL REINFORCED CONCRETE PIPE (RCP) AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
- a. ASTM C 76, WITH BELL-AND-SPIGOT OR GROOVE AND TONGUE ENDS AND GASKETED JOINTS WITH ASTM C 443 RUBBER GASKETS.
- b. RCP PIPE SHALL BE CLASS III, WALL B. c. WHEN LOCATED IN TRAFFIC AREAS WITH LESS THAN 2 FEET OF COVER, RCP
- PIPE SHALL BE CLASS IV, WALL B. d. WHEN LOCATED UNDER AIRCRAFT RAMPS OR RAILROAD OPERATIONS, RCP
- PIPE SHALL BE CLASS V, WALL B WITH O-RING JOINTS. e. PIPE CLASS SHALL BE CLEARLY "STAMPED" ON EACH SEGMENT OF RCP PIPE
- DELIVERED TO THE PROJECT.

f. PIPE JOINTS SHALL BE WATER-TIGHT.

USING ASTM F 477, ELASTOMERIC SEALS.

c. PIPE JOINTS SHALL BE WATER-TIGHT.

- CONTRACTOR SHALL HANDLE AND STORE PIPE, FITTINGS, GASKETS, AND RELATED APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 4. CONTRACTOR SHALL HANDLE MANHOLES. DROP INLETS, CURB INLETS, PIPE END COMPONENTS AND RELATED APPURTENANCES ACCORDING TO MANUFACTURER'S WRITTEN RIGGING INSTRUCTIONS.

5. PVC PLASTIC PIPE AND FITTINGS SHALL NOT BE STORED IN DIRECT SUNLIGHT

- 6. ALL PIPE. FITTINGS, GASKETS, AND SEALS SHALL BE PROTECTED FROM DIRT
- ALL STORM SEWER LINES SHALL BE TELEVISED AND THE VIDEO REPORTS SUBMITTED TO THE ENGINEER FOR REVIEW
- a. VIDEO REPORTS ARE TO BE SUBMITTED ON CD-ROM OR DVD COMPACT DISKS. b. ALL LINES MUST BE FLUSHED AND CLEANED WITH POTABLE WATER PRIOR TO
- c. FOR SUBMERGED SYSTEMS, POND WATER LEVELS SHALL BE LOWERED

(PUMPED DOWN) BELOW THE LOWEST PIPE ENTRANCE INVERT.

d. VIDEO REPORTS WILL BE USED TO VIEW THE CONDITION OF THE STORM

SEWER PIPE PRIOR TO ACCEPTANCE. WORKMANSHIP AND CLEANLINESS OF

- AS-BUILT SURVEY: THE CONTRACTOR SHALL VERIFY STORM SEWER IMPROVEMENTS ALIGNMENT BY PROVIDING AN "AS-BUILT" SURVEY OF CONSTRUCTED CONDITIONS FROM A LICENSED SURVEYOR REGISTERED IN THE STATE OF PROJECT LOCATION. THE "AS-BUILT" SURVEY SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION PERTAINING TO THE INSTALLATION OF THE STORM SEWER SYSTEM PIPING AND STRUCTURES. DATUM ELEVATION
- INCLUDED IS AS FOLLOWS: a. PIPE TYPE, SIZE. AND INVERT ELEVATIONS. b. MANHOLE, DROP INLET, CURB INLET, YARD DRAIN, AND POND CONTROL STRUCTURE LOCATIONS WITH ELEVATIONS OF BOTTOM, RIM OR GRATE

AND BENCHMARK LOCATIONS SHALL BE INDICATED. INFORMATION TO BE

ELEVATION SHOWN. c. POND CONTROL STRUCTURES: SHOW INFORMATION ON ALL FLOW CONTROL APPURTENANCES AND OUTLET PIPING.

ASPHALT PAVING

THE INSTALLATION WILL BE CHECKED.

PERSONNEL AS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION IS TO CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES": LATEST EDITION. 2. ALL ASPHALT PAVING MATERIALS, WORKMANSHIP, AND INSTALLATION

1. THE CONTRACTOR IS TO PROVIDE BARRICADES, SIGNS, FLASHERS, AND FLAG

- REQUIREMENTS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS OF THI STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) FOR THE STATE IN WHICH THE WORK OCCURS WITH SOME EXCLUSIONS. THE DOT PAYMENT PROCEDURES AND SAFETY REQUIREMENTS SHALL GENERALLY NOT APPLY.
- a. COARSE AGGREGATE. FINE AGGREGATE AND MINERAL FILLERS: IN ACCORDANCE WITH D.O.T. MATERIAL STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS. b. ASPHALT BINDER, ASPHALT CEMENT, PRIME COAT, AND TACK COAT: IN
- CONSTRUCTION SPECIFICATIONS. c. JOINT SEALANT: ASTM 0 6690 OR AASHTO M 324. TYPE II OR III, HOT APPLIED, SINGLE COMPONENT, POLYMER-MODIFIED BITUMINOUS SEALANT.

d. PAVEMENT-MARKING PAINT: IN ACCORDANCE WITH D.O.T. MATERIAL

ACCORDANCE WITH D.O.T. MATERIAL STANDARDS AND ASSOCIATED

- STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS. COLORS AS 3. DO NOT APPLY ASPHALT MATERIALS IF SUBGRADE IS FROZEN, WET, OR
- EXCESSIVELY DAMP; OR IF RAIN IS IMMINENT OR EXPECTED BEFORE TIME REQUIRED FOR ADEQUATE CURE. APPLY ONLY AT D.O.T. RECOMMENDED
- SURFACE TEMPERATURE. 4. INSTALLATION TOLERANCES: a. PAVEMENT THICKNESS: THE AVERAGE OF THE MEASURED THICKNESS OF THE
- PAVEMENT LAYERS SHALL MEET OR EXCEED THE REQUIRED THICKNESS FOR THOSE LAYERS, AND THE MINIMUM THICKNESS IN ANY ONE AREA SHALL NOT BE LESS THAN 0.25 INCHES BELOW THE REQUIRED THICKNESS. b. PAVEMENT SURFACE SMOOTHNESS: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY
- OR LONGITUDINALLY TO PAVED AREAS: BASE COURSE: 1/4 -INCH
- SURFACE COURSE: 1/4 -INCH c. CROWNED SURFACES: TEST WITH CROWNED TEMPLATE CENTERED AND AT RIGHT ANGLE TO CROWN. MAXIMUM ALLOWABLE VARIANCE FROM TEMPLATE
- PAVEMENT MARKINGS SHALL BE MADE WITH NON-THERMOPLASTIC ACRYLIC MARKING PAINT MEETING THE DOT MATERIAL REQUIREMENTS. ALLOW PAVING TO AGE FOR 30 DAYS BEFORE STARTING PAVEMENT MARKING. PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES. SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS AND COLORS INDICATED, WITH UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS AND ONLY AT MANUFACTURER'S RECOMMENDED

AMBIENT AND SURFACE TEMPERATURES. **AS-BUILT SURVEY**

b. ALL SANITARY SEWER

f. BUILDING FINISH FLOOR ELEVATION

g. BUILDING CORNER LOCATIONS

- UPON COMPLETION OF THE WORK, THE SITEWORK SUB-CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY. THE "AS-BUILT" SURVEY SHALL INCLUDE LOCATION AND ELEVATION DATA FOR ALL CONSTRUCTED IMPROVEMENTS. SPECIFIC INFORMATION INCLUDED IN THE SURVEY SHALL BE AS FOLLOWS:
- c. ALL STORM SEWER d. ALL STORM DETENTION, RETENTION, AND WATER QUALITY POND GRADING e. EMBANKMENT AND LAWN AREA GRADING

a. ALL PAVEMENT SURFACES INCLUDING CURBS, WALKS, RAMPS, PADS, ETC.

- h. OUT BUILDINGS, IF APPLICABLE i. WATER, GAS, BURIED ELECTRIC AND BURIED TELECOM LINES
- j. LIGHT POLE LOCATIONS k. STRIPING AND PAVEMENT MARKINGS I. TREE LOCATIONS WITH SIZE AND SPECIES

Lic. #: AA - 0003590

1208 East Kennedy Boulevard

Tampa, Florida 33602

[p]: 813.434.4770

FL REG. NO. 64085

www.iegroup.net IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E.

DATE EM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPAR ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE ED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEA

DR | 05/15/25 | RAI ROUND 1

DRAWN BY: CHECKED BY:

SPECIFICATIONS

12/31/24

SHEET NUMBER

550 S. Caldwell Street | P: 704.981.8951 Suite 1800 Charlotte, NC 28202 | www.bdgllp.com



HR

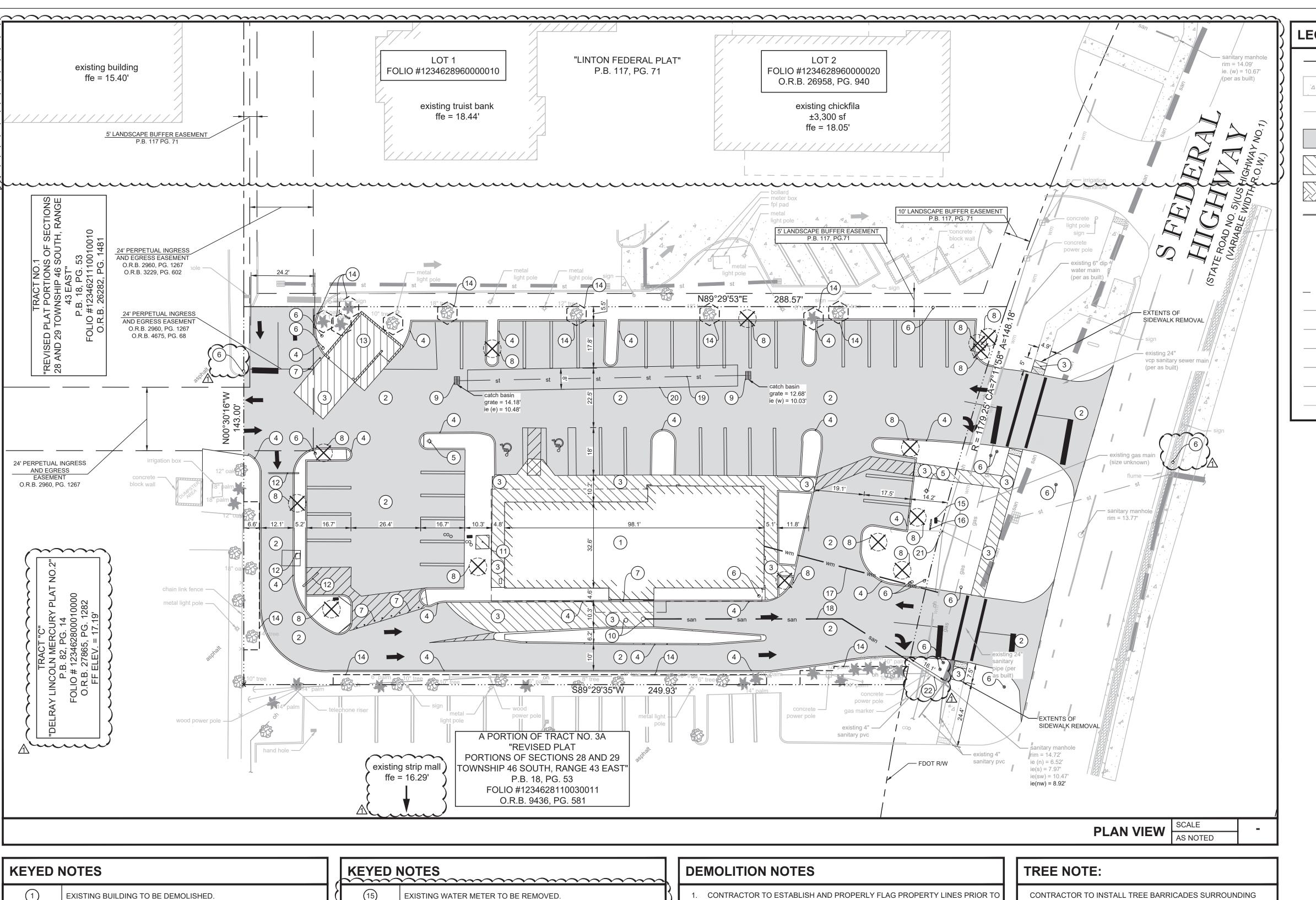
[f]: 813.445.4211 FL Cert. of Auth. No 27889

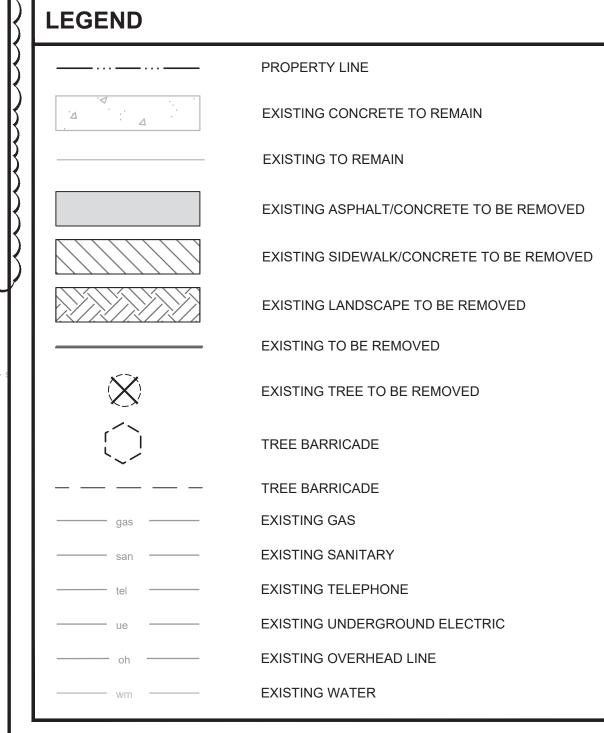
ISSUE BY DATE DESCRIPTION ISSUE FOR PERMIT /\ DR | 10/03/25

ND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO

PROJECT INFORMATION JOB#

SHEET TITLE







architects

550 S. Caldwell Street | P: 704.981.8951

Charlotte, NC 28202 | www.bdgllp.com

ic. #: AA - 0003590

FIFTH THIRD

INFINITY

1208 East Kennedy Boulevard Tampa, Florida 33602 [p]: 813.434.4770

[f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

DATE
NICALLY SIGNED AND S

PE) ON THE I PRINTED CO AND THE SIG	DATE AN PIES OF T SNATURE	D/OR TIME STAMP SI THIS DOCUMENT ARE	INED AND SEALED BY (NISIT SAPPARKHAC HOWN USING A DIGITAL SIGNATURE. NOT CONSIDERED SIGNED AND SEALED BY A 3RD PARTY CERTIFICATE AUTHORITY 1.004
ISSUE	BY	DATE	DESCRIPTION
	DR	05/15/25	ISSUE FOR PERMIT
Λ	DR	10/03/25	RAI ROUND 1
	İ		

PROJECT INFORMATION JOB# 12/31/24

DRAWN BY: CHECKED BY:

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO

DEMOLITION.

DISTURBED.

>>

EXISTING SANITARY PIPE TO REMAIN. POINT OF CONNECTION ON

EXISTING LATERAL SHALL BE 5' FROM MANHOLE TO 5' OUTSIDE OF

MANHOLE. CONTRACTOR TO CONNECT TO EXISTING LATERAL.

EXISTING FIRE SERVICE LINE TO BE REMOVED AND CAPPED AT THE

EXISTING BACKFLOW PREVENTER TO BE REMOVED.

EXISTING SANITARY LINE TO BE REMOVED.

EXISTING STORM PIPE TO BE REMOVED.

EXISTING SEEPAGE PIT TO BE REMOVED.

EXISTING POWERPOLE TO REMAIN.

- 2. ALL ABOVE AND BELOW GROUND HARDWARE, EQUIPMENT AND MATERIALS TO BE DISPOSED OF IN ACCORDANCE WITH LOCAL MUNICIPALITY REQUIREMENTS.
- 3. UTILITIES TO BE PLUGGED SHALL BE FILLED WITH A MINIMUM 1.0 CUBIC FT. OF
- NON SHRINK GROUT OR AS OTHERWISE APPROVED BY ENGINEER.
- 4. TREES SHOWN TO REMAIN SHALL MAINTAIN PROTECTIVE BARRIERS DURING DEMOLITION. THESE BARRIERS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL MUNICIPALITY STANDARDS.
- 5. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE BUT NOT BE LIMITED
- TO WATER, SEWER, GAS, CABLE TV, POWER AND TELEPHONE. 6. THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING

DEMOLITION, SEE "EROSION & SEDIMENT CONTROL DETAILS".

- . THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR
- OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED. 8. ALL DISTURBED AREA WITH THE RIGHT OF WAY WILL BE RESTORED TO
- 9. ANY DAMAGE TO ANY ROADWAY PAVEMENT LIKE UTILITY CUTS OR EDGE REPAIR SHALL BE MILLED AND RESURFACED FOR 50' EACH WAY PAST THE LIMIT OF THE DAMAGE PER CITY OF DELRAY BEACH STANDARD DETAIL GU1.0.

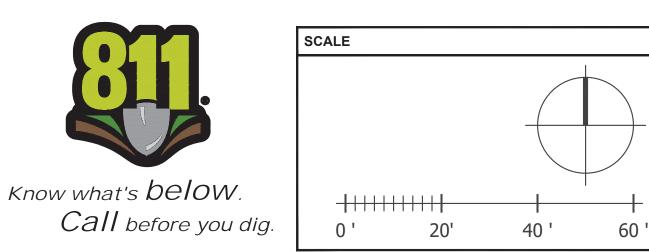
ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA

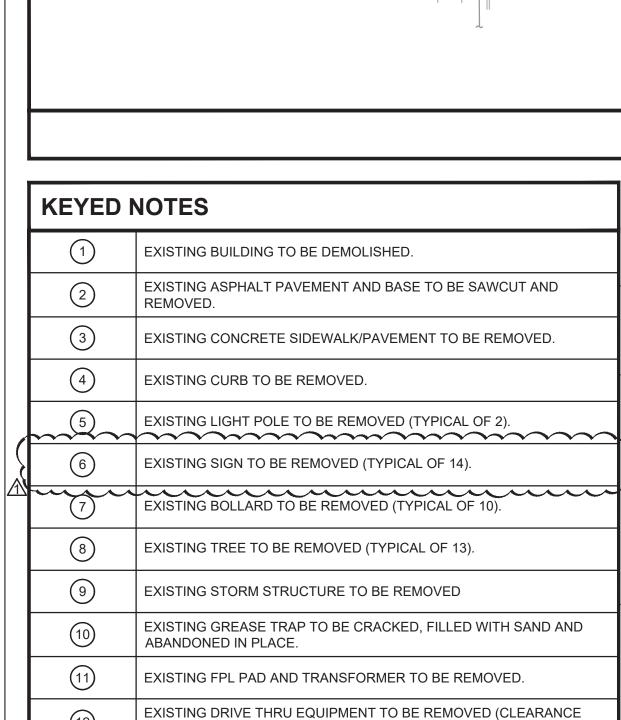
10. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD 1.0 & LD 2.0.

CONTRACTOR TO INSTALL TREE BARRICADES SURROUNDING ALL TREES TO REMAIN. IRRIGATE ALL LANDSCAPING AS

NEEDED.





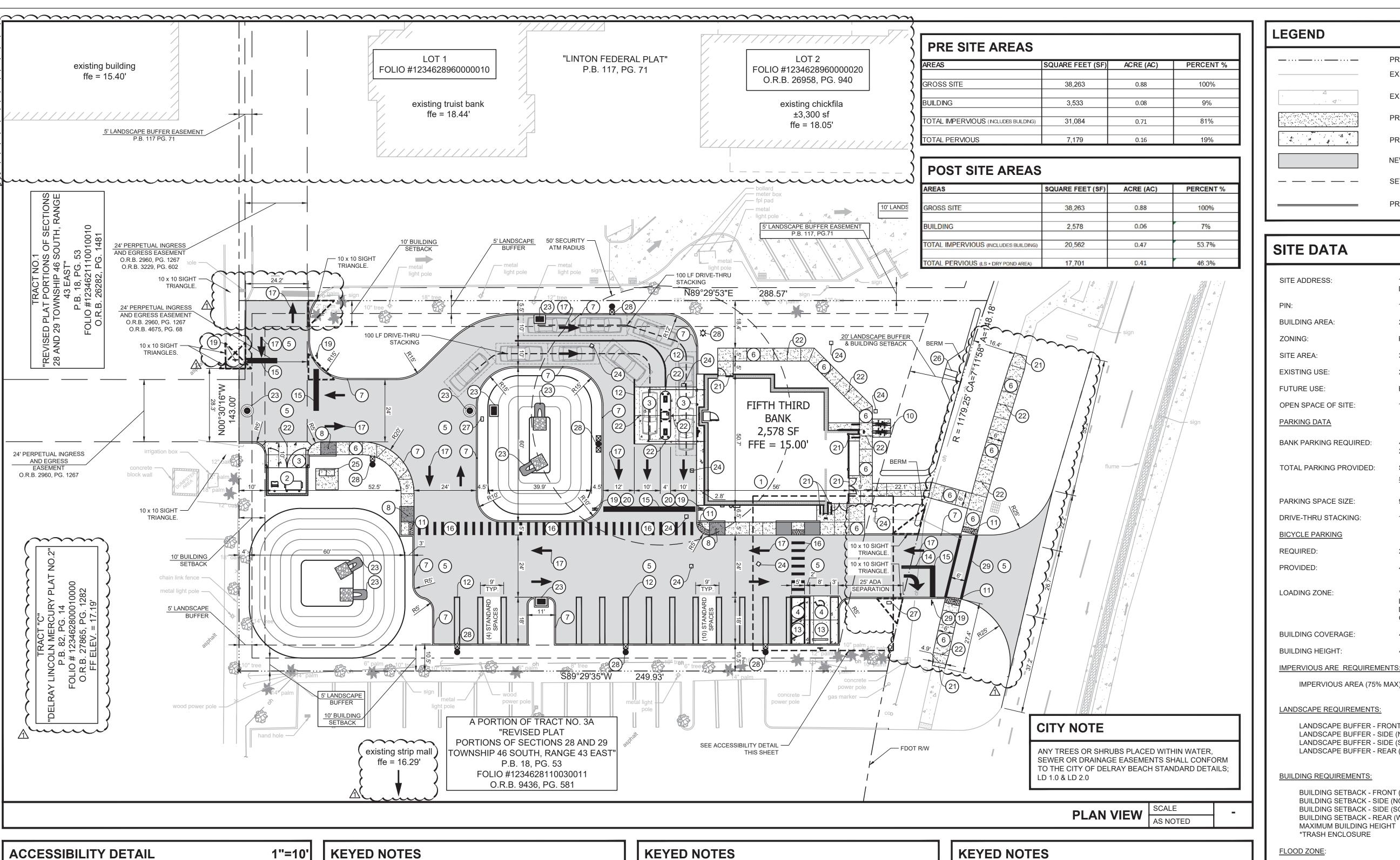


POST, SPEAKER, CANOPY AND SIGN).

AND BOLLARDS).

NEW TREE BARRICADE.

EXISTING DUMPSTER TO BE REMOVED (GATES, WALLS, CONCRETE



15)	NEW 24-INCH "WHITE" STOP BAR (CONTINUOUS PAINT ON PROPERTY, THERMOPLASTIC IN ROW).
16)	5-FOOT WIDE CROSSWALK, 12-INCH "WHITE" STRIPE @ 36" O.C. (CONTINUOUS PAINT).
17)	NEW "WHITE" DIRECTIONAL ARROW (CONTINUOUS PAINT ON PROPERT THERMOPLASTIC IN ROW). SEE DETAILS, SHEET C05.01.
18	NEW ACCESSIBLE PARKING SIGN. SEE DETAILS, SHEET C05.02. (PROVIDED AND INSTALLED BY FIFTH THIRD SIGN VENDOR).

5 NEW ASPHALT PAVEMENT. SEE DETAILS, SHEET C05.01. NEW 4" CONCRETE SIDEWALK, SEE PLAN FOR WIDTH. SEE DETAILS, NEW 6" X 18" VERTICAL CURB, 3-FOOT CURB TRANSITION AT PATHWAYS.

SEE DETAILS, SHEET C05.01. 8 NEW ADA RAMP. SEE DETAILS, SHEET C05.01.

5

18.5' CONCRETE

25' ADA SEPARATION

1 NEW BUILDING (SEE ARCHITECTURAL DRAWINGS)

2 NEW DOUBLE TRASH ENCLOSURE (SEE ARCHITECTURAL DRAWING)

(4) NEW 6" BLACKTINT CONCRETE PAVEMENT. SEE DETAILS, SHEET C05.01

3 NEW 6" CONCRETE PAVEMENT. SEE DETAILS, SHEET C05.01.

9 NEW WHEEL STOP. SEE DETAILS, SHEET C05.01.

NEW FIFTH THIRD STANDARD BICYCLE RACK. SEE DETAILS, SHEET

(11) NEW DETECTABLE WARNING. SEE DETAILS, SHEET C05.01. NEW 4-INCH "WHITE" PARKING/AISLE STRIPE (CONTINUOUS PAINT) PER CITY STANDARD RT 16.00. SEE DETAILS, SHEET C05.04.

NEW ACCESSIBLE PARKING SPACE AND ACCESS AISLE PER CITY DETAIL RT 16.0. SEE DETAILS, SHEET C05.04 (14) NEW 6-INCH "DOUBLE YELLOW" LANE STRIPE (THERMOPLASTIC).

		(15)	THERMOPLASTIC IN ROW).
		16)	5-FOOT WIDE CROSSWALK, 12-INCH "WHITE" STRIPE @ 36" O.C. (CONTINUOUS PAINT).
		17)	NEW "WHITE" DIRECTIONAL ARROW (CONTINUOUS PAINT ON PROPERTY, THERMOPLASTIC IN ROW). SEE DETAILS, SHEET C05.01.
-		18)	NEW ACCESSIBLE PARKING SIGN. SEE DETAILS, SHEET C05.02. (PROVIDED AND INSTALLED BY FIFTH THIRD SIGN VENDOR).
_	{	19	NEW 30" R1-1 "STOP" SIGN (TYPICAL OF 4). SEE DETAILS, SHEET C05.02. (PROVIDED AND INSTALLED BY FIFTH THIRD SIGN VENDOR).
	Δì	20	NEW 30" R5-1" DO NOT ENTER SIGN (TYPICAL OF 2). SEE DETAILS, SHEET C05.02. (PROVIDED AND INSTALLED BY FIFTH THIRD SIGN VENDOR).
		21)	NEW EXPANSION JOINT. SEE DETAILS, SHEET C05.01.
		22	NEW CONTROL JOINT. SEE DETAILS, SHEET C05.01.
		23	STORMWATER STRUCTURE. SEE STORM PIPING PLAN, SHEET C03.02.
		24)	NEW CONCRETE CLEANOUT PAD.
		25)	NEW CONCRETE TRANSFORMER PAD.
		26	NEW FIFTH THIRD BANK ID SIGN (BY OTHERS).
		27)	NEW FIFTH THIRD BANK DIRECTIONAL SIGN (BY OTHERS).
	· '		

NEW AREA LIGHT POLE. SEE ELECTRICAL SITE PLANS.

NEW 30" R3-5 "RIGHT TURN ONLY" SIGN (TYPICAL OF 1). (29) SEE DETAILS, SHEET C05.02. (PROVIDED AND INSTALLED BY FIFTH THIRD SIGN VENDOR).

(29) NEW 12" WHITE THERMOPLASTIC STRIPING.

SITE ADDRESS: 1820 SOUTH FEDERAL HIGHWAY DELRAY BEACH, FLORIDA 33483 12-43-46-28-11-002-0020 **BUILDING AREA:** 2,578 SF BUILDING ZONING: PC - PLANNED COMMERCIAL SITE AREA: 38,263 SF / .88 AC EXISTING USE: 2200 - RESTURANT, DRIVE IN BANK WITH DRIVE THRU **FUTURE USE:** OPEN SPACE OF SITE 17,701 SF / 0.41 AC PARKING DATA BANK PARKING REQUIRED: 4.5 SPACE PER 1,000 SF OF G.F.A. 2,578 SF x (4.5 / 1000 SF) = 11 SPACES

PROPERTY LINE

EXISTING TO REMAIN

NEW ASPHALT PAVEMENT

SETBACK/BUFFER

PROPOSED CURB

EXISTING CONCRETE TO REMAIN

PROPOSED CONCRETE LESS THAN 6"

PROPOSED CONCRETE 6" OR GREATER

TOTAL PARKING PROVIDED: STANDARD PARKING = 14 SPACES ACCESSIBLE PARKING = 1 SPACE TOTAL PARKING PROVIDED = 15 SPACES

PARKING SPACE SIZE: 9' x 18' MINIMUM

DRIVE-THRU STACKING 100' CAR STACKING REQUIRED

BICYCLE PARKING

2 OR 1 PER 10,000 SF BUILDING

4 SPACES PROVIDED:

*NOTE-FINANCIAL INSTITUTIONS DO NOT USE LOADING ZONE: LOADING ZONES FOR SECURITY PURPOSES

DELIVERY TRUCK WILL PARK DIRECTLY IN FRONT OF MAIN ENTRANCE.

4,000 SF MINIMUM / 2,578 SF PROPOSED

PROVIDED

BUILDING HEIGHT: 48 FT MAXIMUM / 18'-8" PROPOSED

IMPERVIOUS AREA (75% MAX)	75%	54%
LANDSCAPE REQUIREMENTS:	REQUIRED	PROVIDED
LANDSCAPE BUFFER - FRONT (S. FEDERAL HO LANDSCAPE BUFFER - SIDE (NORTH) LANDSCAPE BUFFER - SIDE (SOUTH)	GWAY) = 20' = 5' = 5'	20' 5' 10'

LANDSCAPE BUFFER - REAR (WEST) = 5' **BUILDING REQUIREMENTS:** <u>REQUIRED</u> <u>PROVIDED</u>

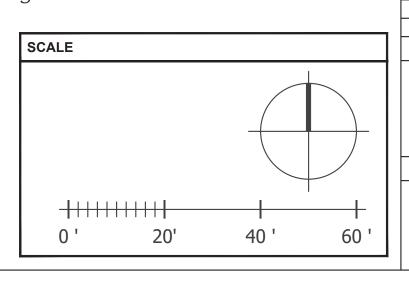
BUILDING SETBACK - FRONT (S. FEDERAL HGWAY) = 20' 24.5' BUILDING SETBACK - SIDE (NORTH) 25.3' BUILDING SETBACK - SIDE (SOUTH) = 10' 60.8' BUILDING SETBACK - REAR (WEST) = 10' 10.5'* MAXIMUM BUILDING HEIGHT 18'-8"

FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; PANEL #12099C0979G; COMMUNITY #125102; MAP DATE: 12/20/24.



*TRASH ENCLOSURE

Know what's below. Call before you dig.



architects

550 S. Caldwell Street | P: 704.981.8951 Lic. #: AA - 0003590 Charlotte, NC 28202 www.bdgllp.com

FIFTH THIRD

HIRD



1208 East Kennedy Boulevard Tampa, Florida 33602

[p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHAO, ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. TED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY INY ELECTRONIC COPY.FAC 61G15-23.004								
SUE	BY	DATE	DESCRIPTION					
	DR	05/15/25	ISSUE FOR PERMIT					
1	DR	10/03/25	RAI ROUND 1					

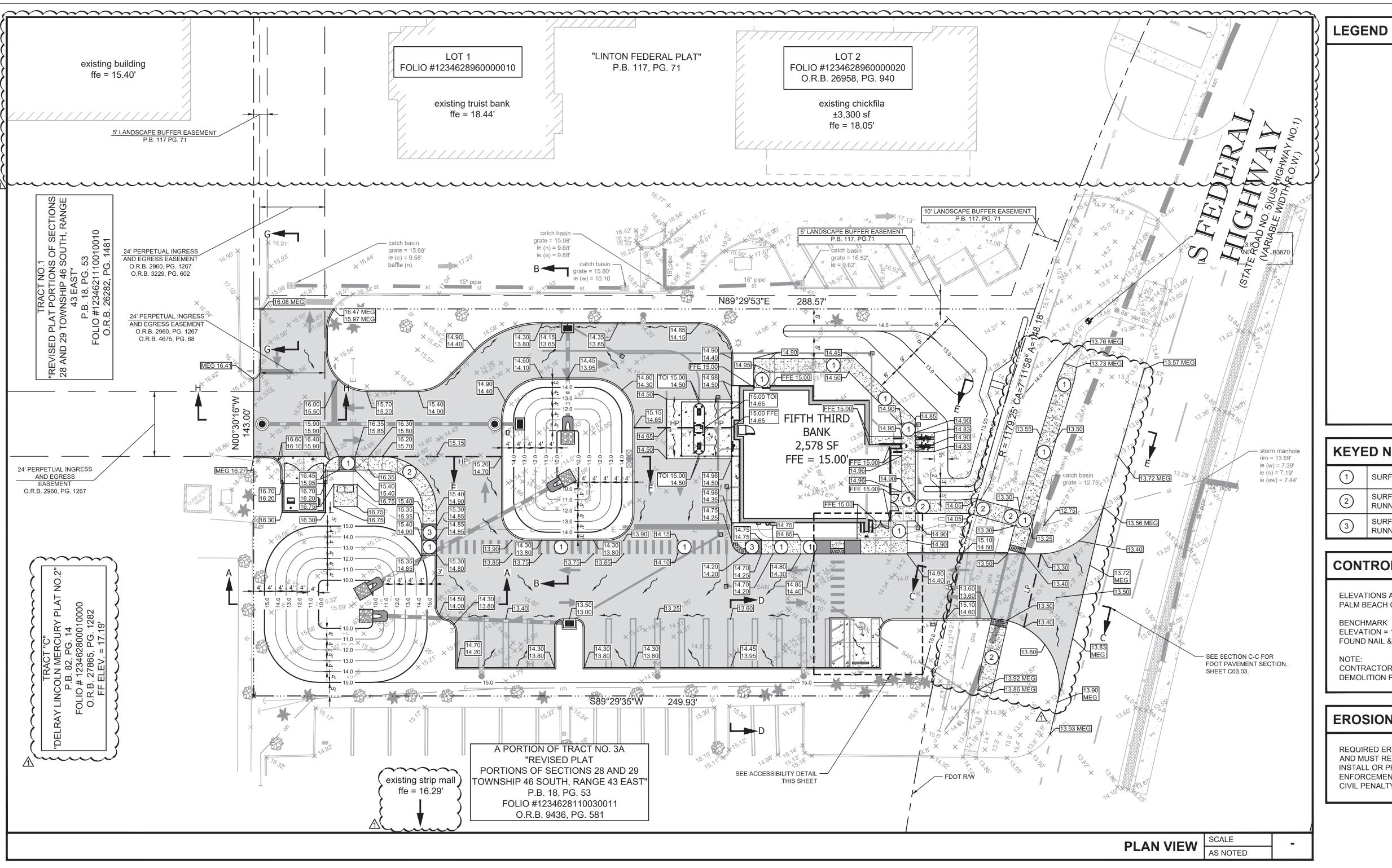
PROJECT INFORMATION JOB# 12/31/24 DRAWN BY: CHECKED BY:

SHEET TITLE

SITE PLAN

SHEET NUMBER

C02.01



ELEVATION TYPICAL CLEANOUT INVERT ELEVATION SUMP ELEVATION EXISTING ELEVATION PROPOSED PAVEMENT ELEVATION TOP OF SIDEWALK/CURB EDGE OF PAVEMENT DITCH BOTTOM INLET FINISH FLOOR ELEVATION REINFORCED CONCRETE PIPE MATCH EXISTING GRADE TOP OF ISLAND **BUILDING DOWN SPOUT** 12" OR GREATER STORMWATER PIPE LESS THAN 12" STORMWATER PIPE PROPOSED SURFACE STORMWATER FLOW PROPOSED SWALE STORMWATER FLOW -- 29- - EXISTING CONTOUR ----29----- PROPOSED CONTOUR

1)	SURFACE SLOPES NOT TO EXCEED 1:48 IN ALL DIRECTIONS.
2	SURFACE SLOPES NOT TO EXCEED 1:48 CROSS SLOPES AND 1:20 RUNNING.
3	SURFACE SLOPES NOT TO EXCEED 1:48 CROSS SLOPES AND 1:12 RUNNING.

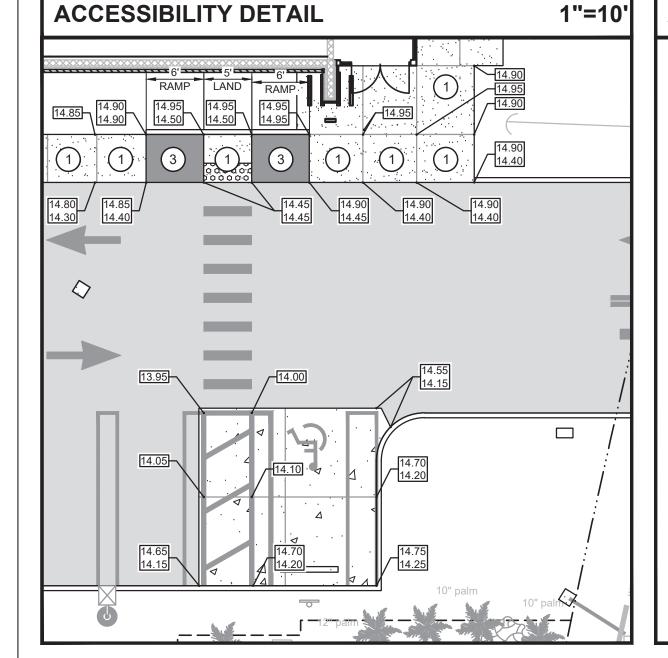
CONTROL BENCHMARKS

ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. PALM BEACH COUNTY BENCHMARK TOTAL VICTORY ELEVATION: 18.968 FEET

FOUND NAIL & DISK LB3870 TP110

REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AS NEEDED AND MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AND INITIATION OF

CIVIL PENALTY PROCEDURES.



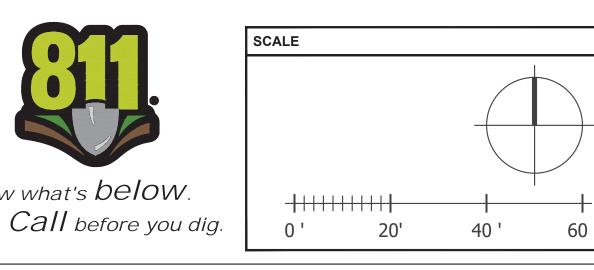
ACCESSIBILITY NOTES

- THE DRAWINGS ARE DESIGNED TO MEET ACCESSIBILITY STANDARDS AT MINIMUM. LOCAL AND STATE REQUIREMENTS OR CODES MAY HAVE ADDITIONAL STANDARDS.
- ACCESSIBLE PARKING SPACES, SIGNAGE, LOGOS, WHEEL STOPS AND ACCESSIBLE AISLES TO MEET ALL OF THE 2010 ADA STANDARDS REQUIREMENTS - PROVIDE SPACES IN SIZE, QUANTITY AND LOCATIONS REQUIRED BY THE ADA STANDARDS AND APPLICABLE CODES AS DETERMINED BY LOCAL JURISDICTION. PROVIDE A MAXIMUM SLOPE IN EITHER DIRECTION OF 1:48 (1:64 RECOMMENDED).
- ACCESSIBLE PARKING SIGNAGE ON POST. BOTTOM OF SIGNAGE TO BE MINIMUM 60" ABOVE GRADE. VERIFY ALL REQUIREMENTS WITH ACCESSIBILITY REQUIREMENTS AND LOCAL CODE.
- CONCRETE WHEEL STOP. ALL ACCESSIBLE SPACES- LOCATE FIXED WHEEL STOP SO AS NOT TO REDUCE THE WIDTH OF THE ADJOINING ACCESSIBLE ROUTE.
- ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY (1 REQUIRED). MAXIMUM RUNNING SLOPE OF 1:20 AND MAXIMUM CROSS SLOPE OF 1:48 (1:64 RECOMMENDED). ALL PAVED SURFACES, CURB RAMPS AND TRANSITIONS ALONG PATH TO MEET ACCESSIBILITY REQUIREMENTS.
- ACCESSIBLE PATH/WALKWAY TO BE 5'-0" MINIMUM, RUNNING SLOPE 1:20 MAXIMUM, CROSS SLOPE 1:48 MAXIMUM, SLOPE AWAY FROM BUILDING - BROOM FINISH CONCRETE.
- CURB RAMP TO MEET ALL ACCESSIBILITY REQUIREMENTS, MAXIMUM SLOPE OF RUN 1:12 (1:14 RECOMMENDED), MAXIMUM CRISS SLOPE 1:48 (1:64 RECOMMENDED). REFER TO SITE DETAILS SHEET FOR ADDITIONAL INFORMATION. PROVIDE 36" LONG MINIMUM LANDDING AT TOP AND 60: MINIMUM LANDING AT BOTTOM OF RAMP WITH MAXIMUM SLOPE IN EITHER DIRECTION OF LANDING TO BE 1:48 (1:64 RECOMMENDED)
- SURFACE CONDITIONS AT ACCESSIBLE WALKWAYS AND ACCESSIBLE AREAS (PAVERS SYSTEMS AND/OR CONCRETE SURFACES) SHALL NOT INCLUDE GAPS GREATER THAT 1/2" OR VERTICAL CHANGES AT JOINTS OR BETWEEN UNITS GREATER THAN 1/4" - UNLESS THE OVERALL LEVEL CHANGE DOES NOT EXCEED 1/2" AND THE LEVEL CHANGE IS BEVELED AT 1:2.
- IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALK/CROSSWALKS ARE CONSTRUCTED TO MEET ADA
- 10. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTORS COST.

PAVING AND GRADING GENERAL NOTES

- SEE GENERAL NOTES SHEET FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES.
- 2. SEE SITE PLAN SHEET FOR SITE DATA.
- 3. SEE SURVEY FOR TEMPORARY BENCH MARK (TBM) LOCATIONS.
- 4. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR LOCAL MUNICIPALITY AND THE DEPARTMENT OF TRANSPORTATION WITH REGARD TO IMPROVEMENTS WITHIN THEIR RESPECTIVE RIGHTS-OF-WAY.
- ALL DISTURBED AREAS WITHIN RIGHT-OF-WAY TO BE RETURNED TO MATCH EXISTING CONDITION.
- 6. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.
- CONTRACTOR SHALL INSTALL EROSION CONTROL SILT FENCE AROUND THE PERIMETER OF THE SITE AND MUST MAINTAIN THE SILT FENCE IN GOOD REPAIR UNTIL ALL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED
- THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION IF ANY PROBLEMS OR DISCREPANCIES EXIST.





architects

550 S. Caldwell Street | P: 704.981.8951 ic. #: AA - 0003590 Charlotte, NC 28202

www.bdgllp.com

INFINITY

1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770

[f]: 813.445.4211

www.iegroup.net

FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00

FL REG. NO. 64085

E) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. RINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEAL

DESCRIPTION

ISSUE FOR PERMIT

RAI ROUND 1

12/31/24

AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO

ISSUE BY DATE

DR 05/15/25

/\ DR | 10/03/25

SEAL NISIT SAPPARKHAO, P.E.

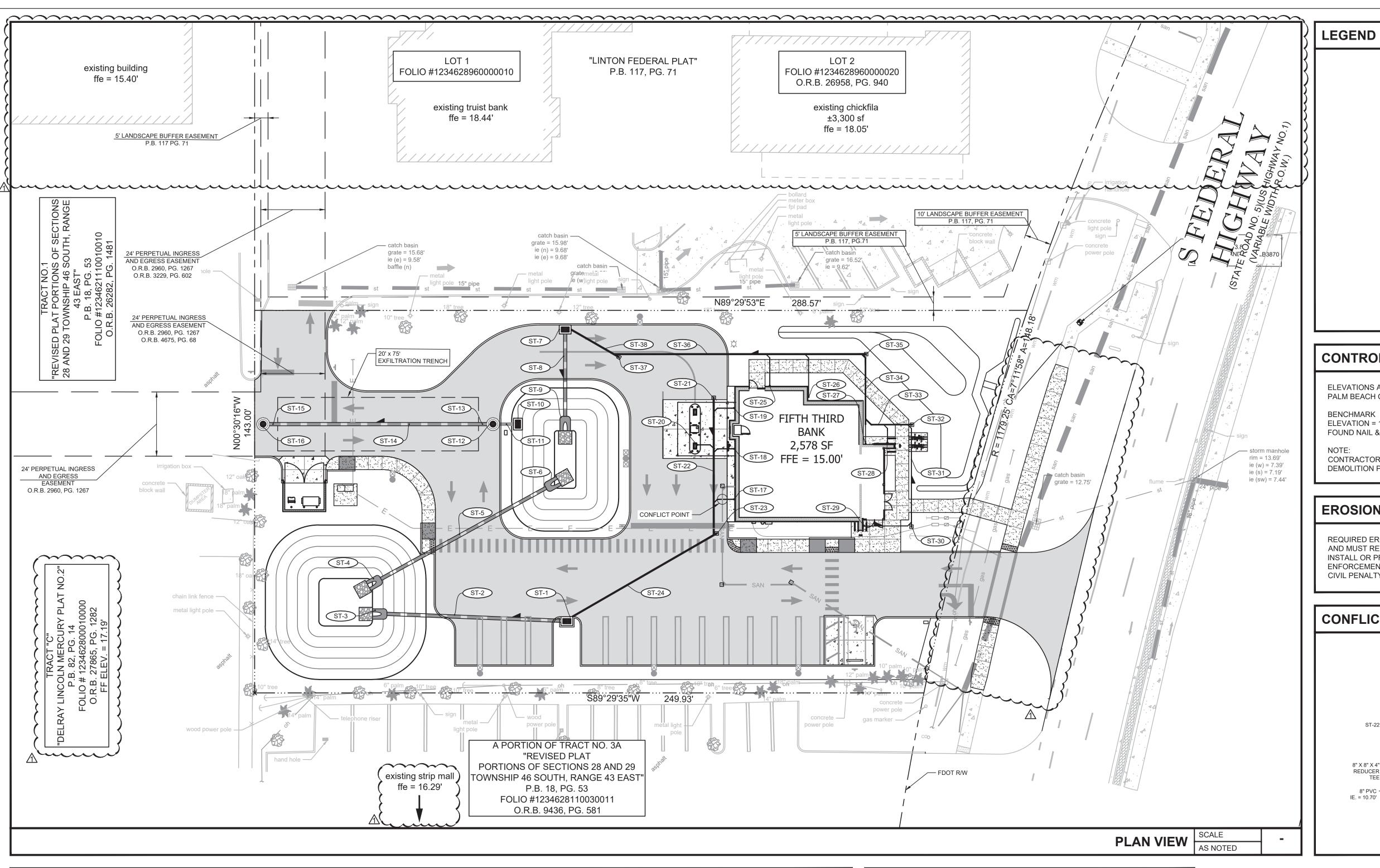
KEYED NOTES:

ELEVATION = 13.87'

CONTRACTOR TO ESTABLISH CONTROL BENCHMARKS BEYOND LIMITS OF DEMOLITION PRIOR TO CONSTRUCTION.

EROSION CONTROL MEASURE NOTE

PROJECT INFORMATION JOB# DRAWN BY: CHECKED BY: SHEET TITLE **GRADING PLAN SHEET NUMBER** C03.01



ELEVATION TYPICAL CLEANOUT INVERT ELEVATION SUMP ELEVATION **EXISTING ELEVATION DITCH BOTTOM INLET** FINISH FLOOR ELEVATION REINFORCED CONCRETE PIPE STORM SEWER STRUCTURE NUMBER BUILDING DOWN SPOUT 12" OR GREATER STORMWATER PIPE LESS THAN 12" STORMWATER PIPE DIRECTION OF PIPE FLOW — −29— EXISTING CONTOUR ----29----- PROPOSED CONTOUR

CONTROL BENCHMARKS

ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. PALM BEACH COUNTY BENCHMARK TOTAL VICTORY ELEVATION: 18.968 FEET

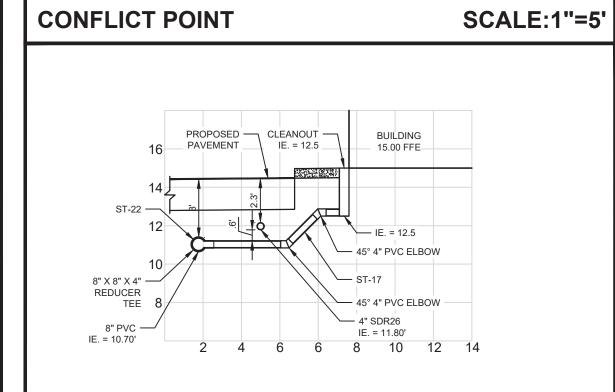
BENCHMARK ELEVATION = 13.87'

FOUND NAIL & DISK LB3870 TP110

CONTRACTOR TO ESTABLISH CONTROL BENCHMARKS BEYOND LIMITS OF DEMOLITION PRIOR TO CONSTRUCTION.

EROSION CONTROL MEASURE NOTE

REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AS NEEDED AND MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AND INITIATION OF CIVIL PENALTY PROCEDURES.



INFINITY

THIRD

architects

550 S. Caldwell Street | P: 704.981.8951

Charlotte, NC 28202 | www.bdgllp.com

FIFTH THIRD

Lic. #: AA - 0003590

INFINITY ENGINEERING GROUP, LLC 1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770

[f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

STORM STRUCTURE/PIPING DATA

TYPE "C" INLET CITY OF DELRAY BEACH PUBLIC WORKS DEPARTMENT DETAIL D9.0. SEE DETAILS SHEET C05.03. GRATE = 13.00'IE (W) = 10.20' IE (S) IE (NE) = 10.20'

ST-2 70 LF OF 15" HDPE @ 0.28% SLOPE

MITERED END SECTION FDOT DETAIL 430-021 SEE DETAILS, PAGE C05.06. = 10.0'

ST-4 MITERED END SECTION FDOT DETAIL 430-021 SEE DETAILS, PAGE C05.06. = 10.0'

80 LF OF 15" HDPE @ 0.00% SLOPE

ST-6 MITERED END SECTION FDOT DETAIL 430-021 SEE DETAILS, PAGE C05.06. = 10.0'

TYPE "C" INLET CITY OF DELRAY BEACH PUBLIC WORKS DEPARTMENT DETAIL D9.0. SEE DETAILS SHEET C05.03. GRATE = 13.65'

= 10.40' (15" HDPE)

IE (E) = 10.40' (8" PVC) 38 LF OF 15" HDPE @ 1.06% SLOPE

ST-9 MITERED END SECTION FDOT DETAIL 430-021 SEE DETAILS, PAGE C05.06. = 10.0'

ST-10 **OUTFALL CONTROL STRUCTURE** = 12.75' IE(W) = 10.30'

ST-11 6 LF OF 15" HDPE @ 1.67% SLOPE ST-12

TYPE J JUNCTION BOX FDOT STANDARD DETAIL 425-010 SEE DETAILS, PAGE C05.04. RIM = 14.50' IE(E) = 10.20' IE(W) = 10.20'

3 LF OF 15" HDPE @ 0.00% SLOPE

> 75 LF OF 15" PERFORATED PIPE @ 0.00% SLOPE WITHIN A 70' X 25' EXFILTRATION TRENCH

3 LF OF 15" HDPE @ 0.00% SLOPE

ST-16 TYPE J JUNCTION BOX FDOT STANDARD DETAIL 425-010 SEE DETAILS, PAGE C05.04. RIM = 16.35' = 10.20'

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE (SEE CONFLICT POINT DETAIL FOR MORE INFORMATION ON HOW TO CONSTRUCT THIS DOWNSPOUT) 8 LF OF 4" PVC @ 1.00% MIN. SLOPE 63 LF OF 8" PVC

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE = 12.50'

= 12.50'

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 8 LF OF 4" PVC @ 1.00% MIN. SLOPE = 12.50'

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 7 LF OF 4" PVC @ 1.00% MIN. SLOPE

= 12.50' ST-21 CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 11.90' ST-22

52 LF OF 8" PVC @ 3.91% SLOPE ST-23 CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 10.35'

TOP TO BE SET AT GRADE

= 12.50'

@ 0.25% SLOPE BUILDING DOWNSPOUT AND CLEANOUT

BUILDING DOWNSPOUT AND CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE CLEANOUT TOP TO BE SET AT GRADE 17 LF OF 3" PVC @ 1.00% MIN. SLOPE = 12.50'

= 11.90'

19 LF OF 6" PVC

@ 1.01% SLOPE

27 LF OF 6" PVC

95 LF OF 8" PVC

@ 1.01% SLOPE

@ 0.49% SLOPE

CONSTRUCT CLEANOUT

TOP TO BE SET AT GRADE

= 11.45'

= 10.50'

ST-34

ST-36

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE @ 1.01% SLOPE 7 LF OF 3" PVC @ 1.00% MIN. SLOPE = 12.50'

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 7 LF OF 3" PVC @ 1.00% MIN. SLOPE = 12.50'

BUILDING DOWNSPOUT AND ST-37 CONSTRUCT CLEANOUT CLEANOUT TOP TO BE SET AT GRADE TOP TO BE SET AT GRADE 19 LF OF 3" PVC @ 1.00% MIN. SLOPE IE IE = 12.50'21 LF OF 8" PVC

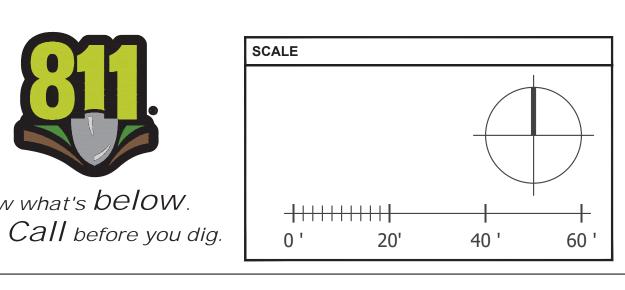
CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE IE = 12.30' 39 LF OF 3" PVC

@ 1.01% SLOPE

PAVING AND GRADING GENERAL NOTES

- SEE GENERAL NOTES SHEET FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES.
- 2. SEE SITE PLAN SHEET FOR SITE DATA.
- 3. SEE SURVEY FOR TEMPORARY BENCH MARK (TBM) LOCATIONS.
- 4. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR LOCAL MUNICIPALITY AND THE DEPARTMENT OF TRANSPORTATION WITH REGARD TO IMPROVEMENTS WITHIN THEIR RESPECTIVE RIGHTS-OF-WAY.
- 5. ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY TO BE RETURNED TO MATCH EXISTING CONDITION.
- 6. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.
- CONTRACTOR SHALL INSTALL EROSION CONTROL SILT FENCE AROUND THE PERIMETER OF THE SITE AND MUST MAINTAIN THE SILT FENCE IN GOOD REPAIR UNTIL ALL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED
- 8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION IF ANY PROBLEMS OR DISCREPANCIES EXIST.





DR 05/15/25 **ISSUE FOR PERMIT** /\ DR | 10/03/25 | **RAI ROUND 1** PROJECT INFORMATION JOB# DATE: 12/31/24 DRAWN BY: CHECKED BY: SHEET TITLE

SITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPAR

PE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALE

DESCRIPTION

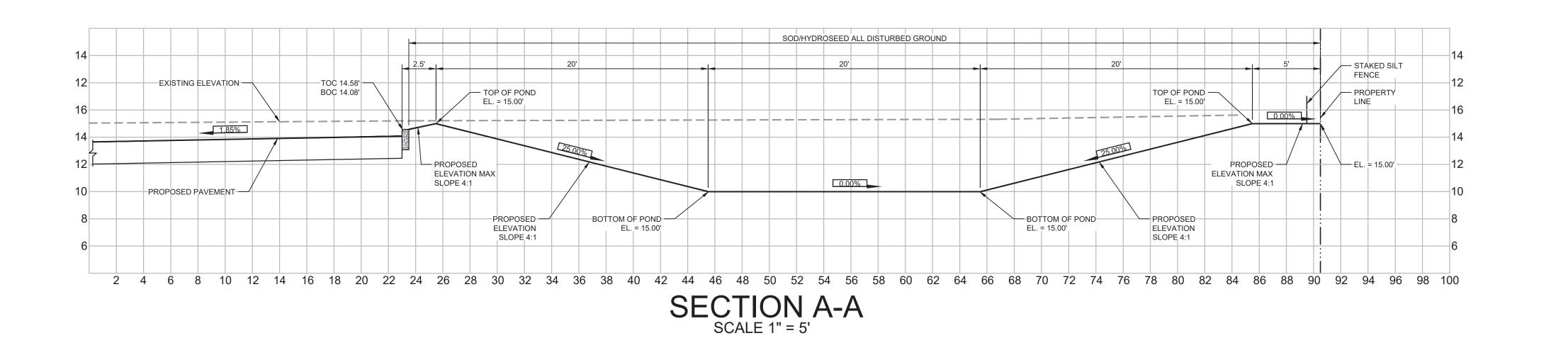
AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO

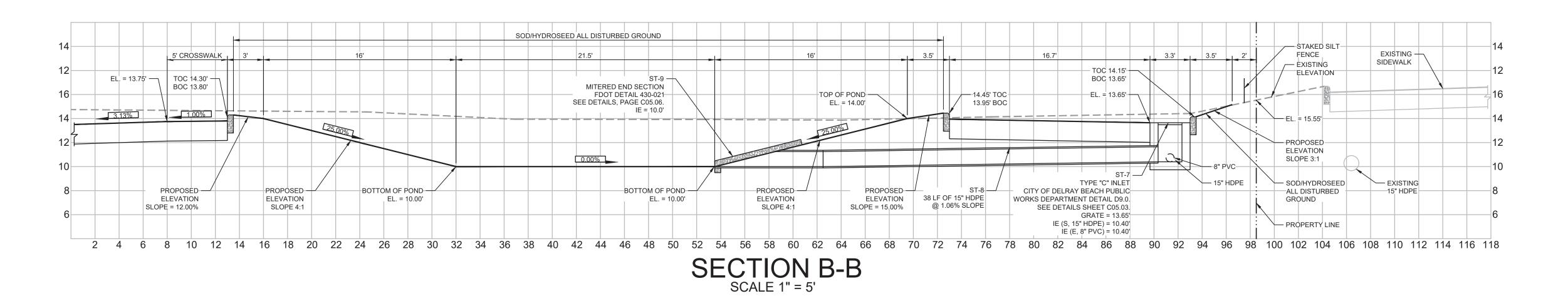
ISSUE BY DATE

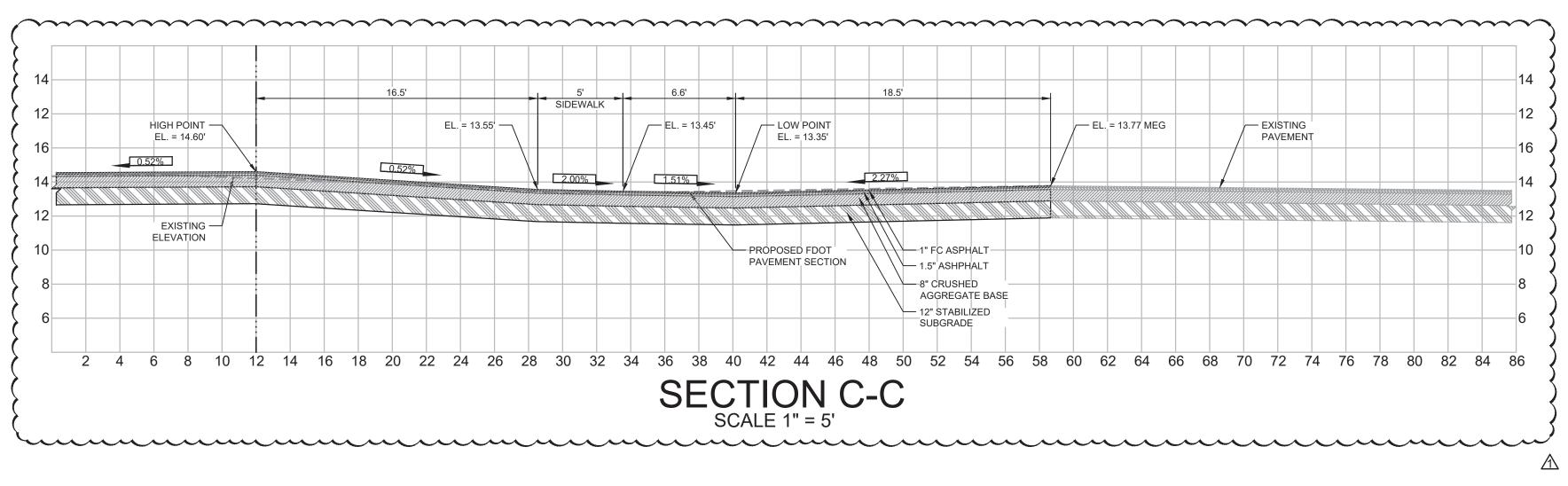
STORM PIPING PLAN

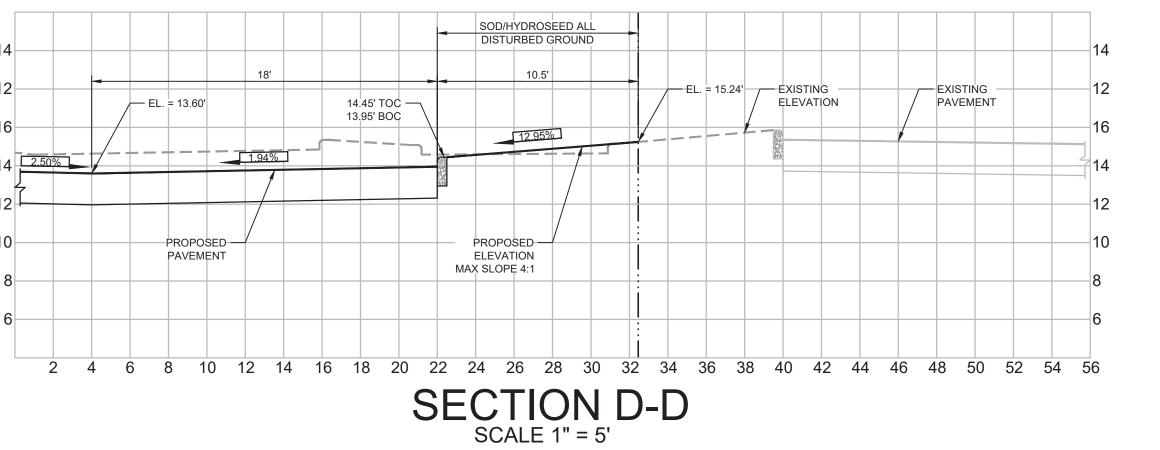
SHEET NUMBER

C03.02









CROSS SECTIONS SCALE 1" = 5'

architects

550 S. Caldwell Street | P: 704.981.8951 Lic. #: AA - 0003590 Charlotte, NC 28202 www.bdgllp.com

5/3 FIFTH THIRD

1820 SOUTH FEDERAL HIGHWAY DELRAY BEACH, FLORIDA 33483

BE, THIRD



1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

PE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALE AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO ISSUE BY DATE DESCRIPTION ISSUE FOR PERMIT DR 05/15/25

DR 10/03/25 RAI ROUND 1

PROJECT INFORMATION JOB#

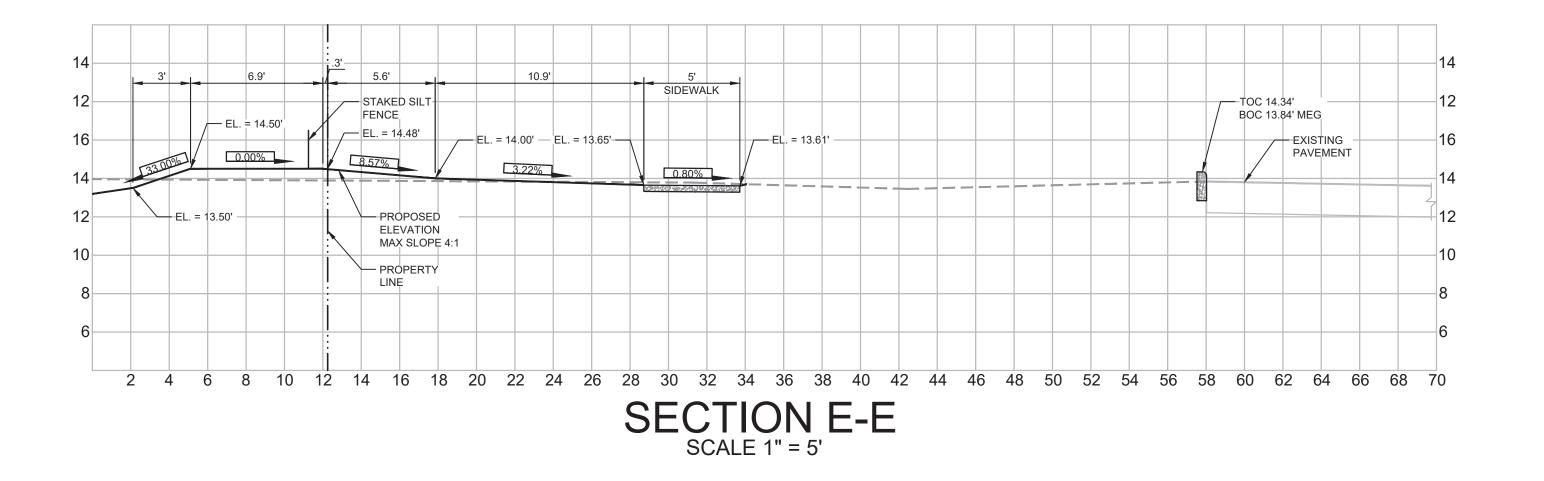
DATE: 12/31/24 DRAWN BY: CHECKED BY:

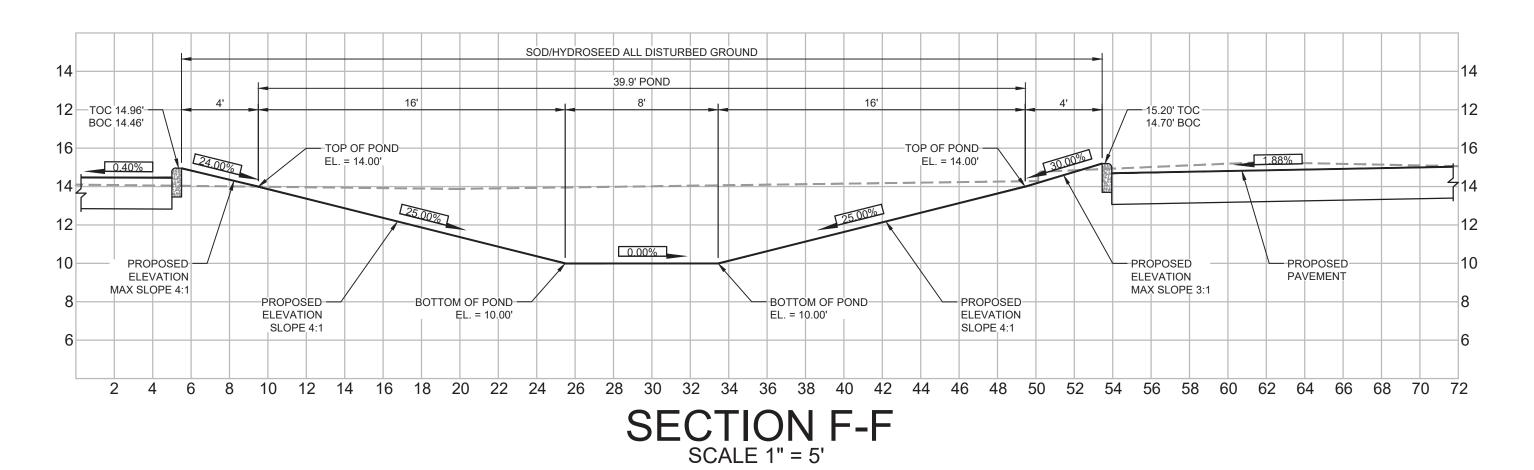
SHEET TITLE

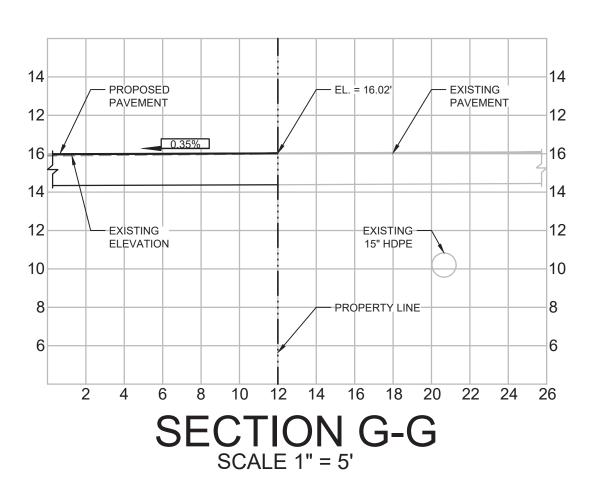
CROSS SECTIONS

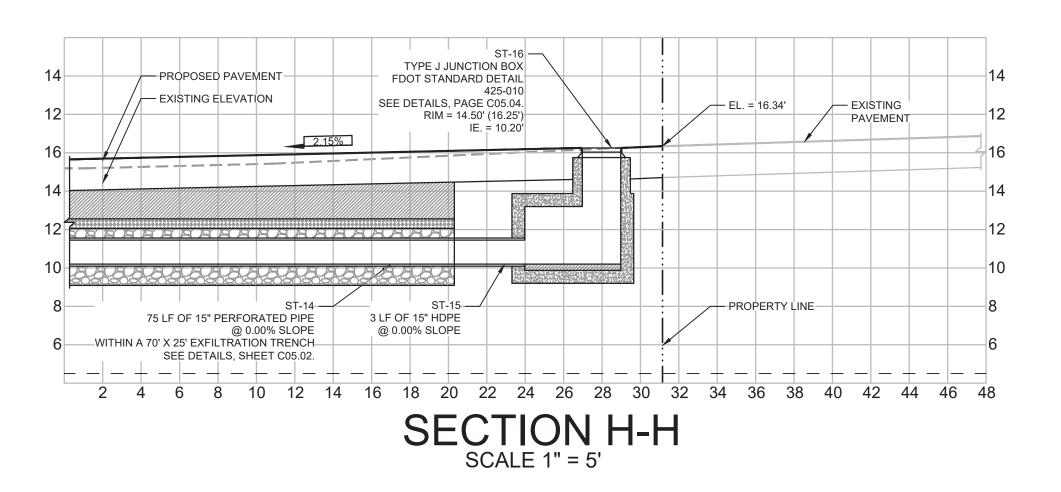
SHEET NUMBER

C03.03









architects

550 S. Caldwell Street Suite 1800 P: 704.981.8951 Lic. #: AA - 0003590 www.bdgllp.com

FIFTH THIRD

1820 SOUTH FEDERAL HIGHWAY DELRAY BEACH, FLORIDA 33483

BE, THIRD



1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHA PE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORIT ON ANY ELECTRONIC COPY.FAC 61G15-23.004 ISSUE BY DATE DESCRIPTION DR | 05/15/25 | ISSUE FOR PERMIT ↑ DR 10/03/25 RAI ROUND 1

PROJECT INFORMATION JOB#

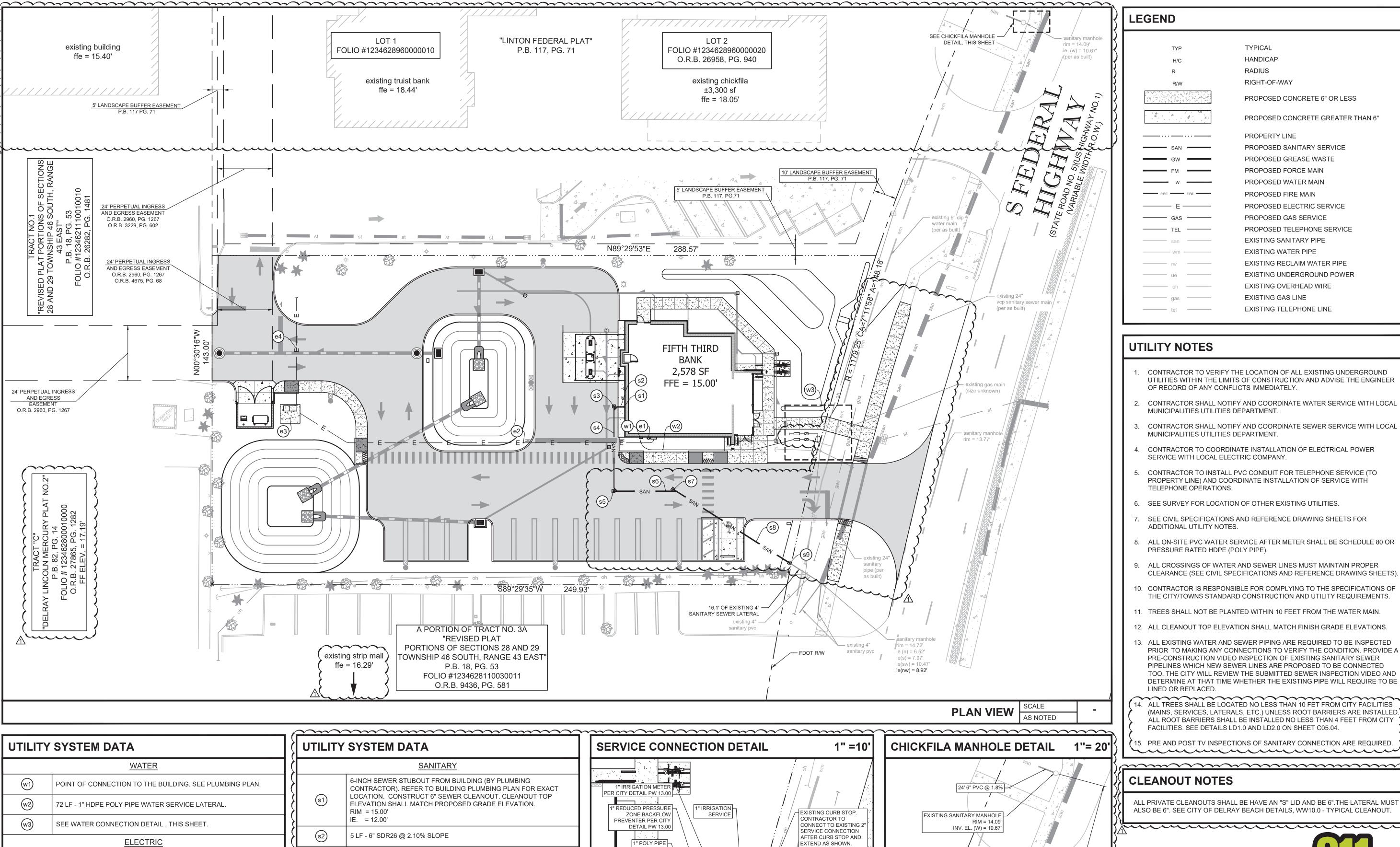
12/31/24 DRAWN BY: CHECKED BY:

SHEET TITLE

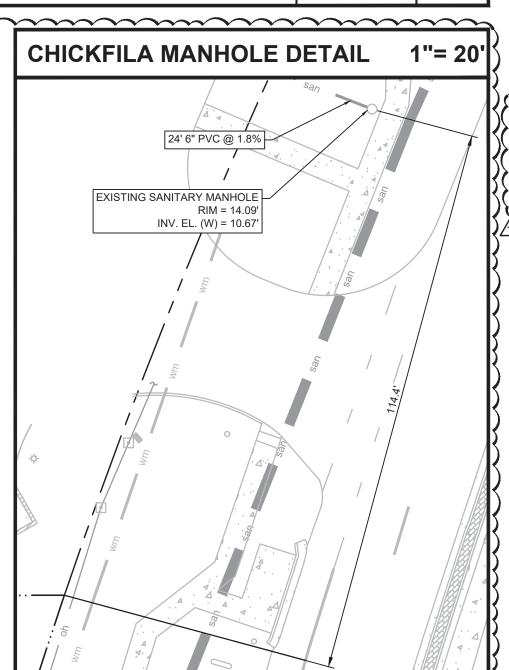
CROSS SECTIONS

SHEET NUMBER

C03.04



IRRIGATION SERVICE EXISTING 2" SERVICE CONNECTION EXISTING 6" CI HDPE POLY PIPE WATER |-SERVICE LATERAL SEE PLAN VIEW FOR CONTINUATION REDUCER " REDUCED PRESSURE ZONE BACKFLOW 1" POTABLE PREVENTER PER CITY DETAIL PW 13.00 WATER SERVICE POTABLE WATER METER PER CITY DETAIL PW 13.00



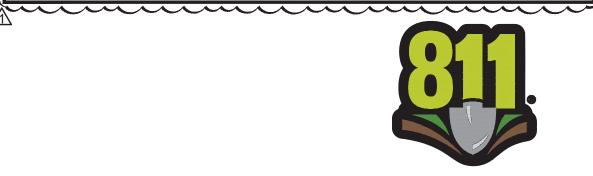
TYPICAL HANDICAP RADIUS RIGHT-OF-WAY PROPOSED CONCRETE 6" OR LESS 4: . . . 4 . PROPOSED CONCRETE GREATER THAN 6" PROPERTY LINE PROPOSED SANITARY SERVICE PROPOSED GREASE WASTE PROPOSED FORCE MAIN PROPOSED WATER MAIN PROPOSED FIRE MAIN PROPOSED ELECTRIC SERVICE PROPOSED GAS SERVICE ____ GAS ____ PROPOSED TELEPHONE SERVICE _____ TEL _____ **EXISTING SANITARY PIPE EXISTING WATER PIPE EXISTING RECLAIM WATER PIPE** EXISTING UNDERGROUND POWER EXISTING OVERHEAD WIRE **EXISTING GAS LINE EXISTING TELEPHONE LINE**

UTILITY NOTES

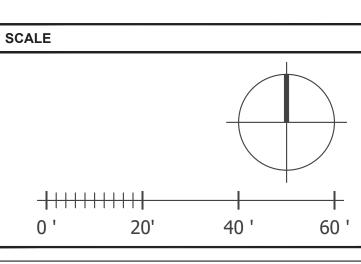
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND ADVISE THE ENGINEER OF RECORD OF ANY CONFLICTS IMMEDIATELY.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WATER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- CONTRACTOR SHALL NOTIFY AND COORDINATE SEWER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL POWER SERVICE WITH LOCAL ELECTRIC COMPANY.
- CONTRACTOR TO INSTALL PVC CONDUIT FOR TELEPHONE SERVICE (TO PROPERTY LINE) AND COORDINATE INSTALLATION OF SERVICE WITH TELEPHONE OPERATIONS.
- 6. SEE SURVEY FOR LOCATION OF OTHER EXISTING UTILITIES.
- SEE CIVIL SPECIFICATIONS AND REFERENCE DRAWING SHEETS FOR ADDITIONAL UTILITY NOTES.
- 8. ALL ON-SITE PVC WATER SERVICE AFTER METER SHALL BE SCHEDULE 80 OR PRESSURE RATED HDPE (POLY PIPE).
- 9. ALL CROSSINGS OF WATER AND SEWER LINES MUST MAINTAIN PROPER CLEARANCE (SEE CIVIL SPECIFICATIONS AND REFERENCE DRAWING SHEETS).
- 10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY/TOWNS STANDARD CONSTRUCTION AND UTILITY REQUIREMENTS.
- 11. TREES SHALL NOT BE PLANTED WITHIN 10 FEET FROM THE WATER MAIN.
- 12. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.
- 13. ALL EXISTING WATER AND SEWER PIPING ARE REQUIRED TO BE INSPECTED PRIOR TO MAKING ANY CONNECTIONS TO VERIFY THE CONDITION. PROVIDE A PRE-CONSTRUCTION VIDEO INSPECTION OF EXISTING SANITARY SEWER PIPELINES WHICH NEW SEWER LINES ARE PROPOSED TO BE CONNECTED TOO. THE CITY WILL REVIEW THE SUBMITTED SEWER INSPECTION VIDEO AND DETERMINE AT THAT TIME WHETHER THE EXISTING PIPE WILL REQUIRE TO BE LINED OR REPLACED.
- 14. ALL TREES SHALL BE LOCATED NO LESS THAN 10 FET FROM CITY FACILITIES (MAINS, SERVICES, LATERALS, ETC.) UNLESS ROOT BARRIERS ARE INSTALLED. ALL ROOT BARRIERS SHALL BE INSTALLED NO LESS THAN 4 FEET FROM CITY FACILITIES. SEE DETAILS LD1.0 AND LD2.0 ON SHEET C05.04.
- 15. PRE AND POST TV INSPECTIONS OF SANITARY CONNECTION ARE REQUIRED.

CLEANOUT NOTES

ALL PRIVATE CLEANOUTS SHALL BE HAVE AN "S" LID AND BE 6". THE LATERAL MUST ALSO BE 6". SEE CITY OF DELRAY BEACH DETAILS, WW10.0 - TYPICAL CLEANOUT.



Know what's below. Call before you dig.



architects

550 S. Caldwell Street | P: 704.981.8951 Lic. #: AA - 0003590

Charlotte, NC 28202 | www.bdgllp.com FIFTH THIRD

THIRD



1208 East Kennedy Boulevard

Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211

www.iegroup.net FL Cert. of Auth. No 27889 IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. IINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEAL D THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO ISSUE BY DATE DESCRIPTION

DR 05/15/25 **ISSUE FOR PERMIT** / DR | 10/03/25 | **RAI ROUND 1**

PROJECT INFORMATION

JOB# DATE: 12/31/24 DRAWN BY: **CHECKED BY:**

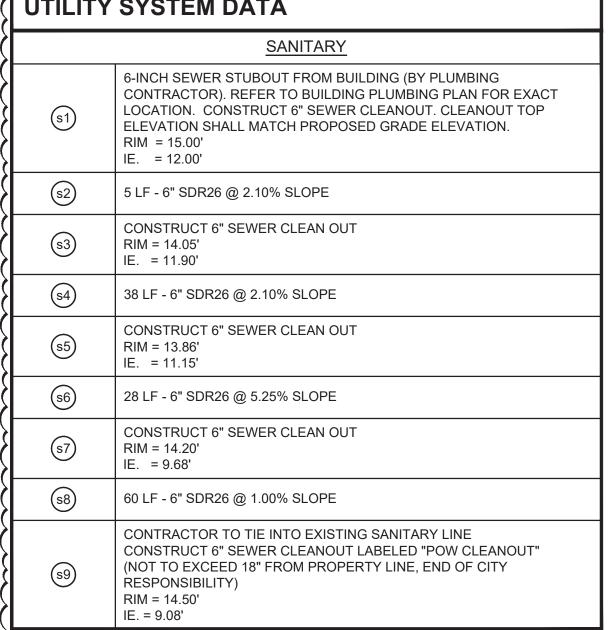
SHEET TITLE

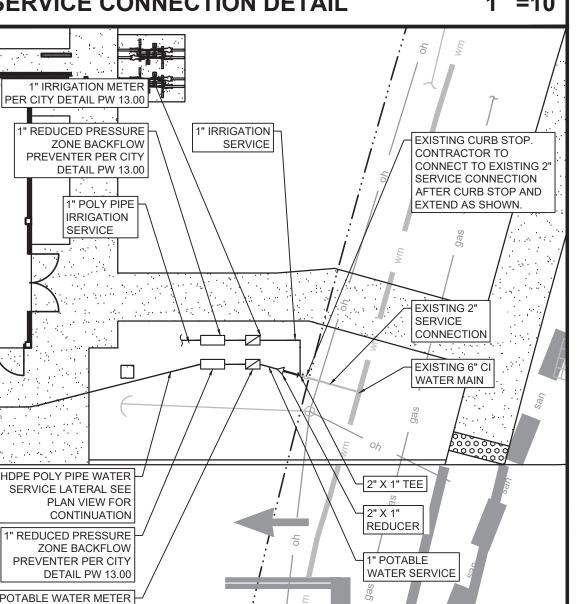
UTILITY PLAN

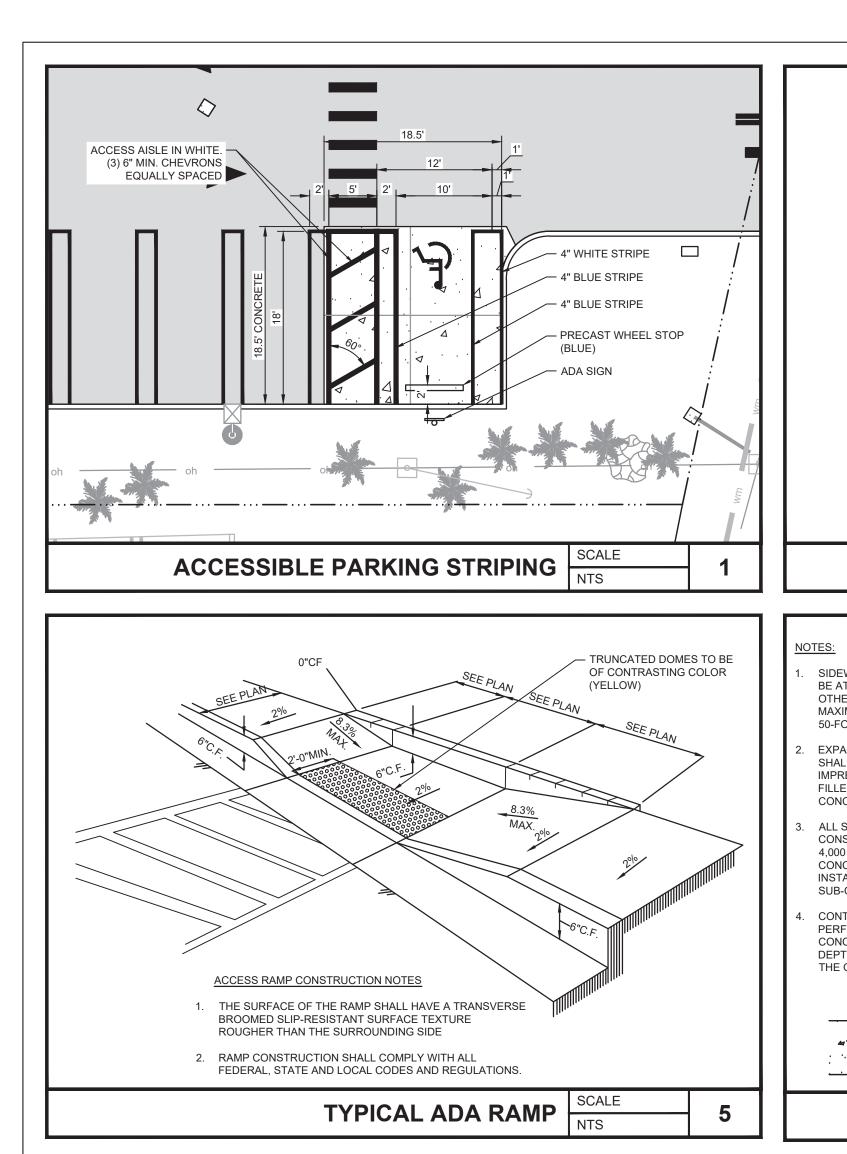
SHEET NUMBER

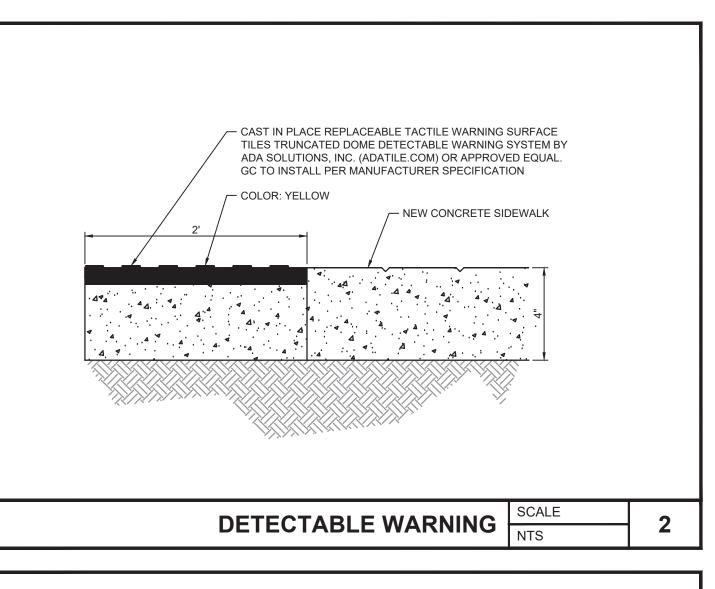
C04.01

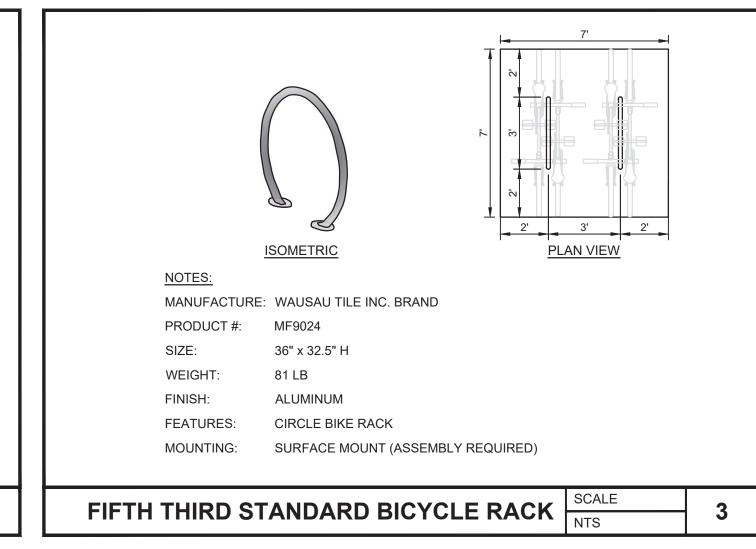
	WATER	17		
W1)	POINT OF CONNECTION TO THE BUILDING. SEE PLUMBING PLAN.	$\bigg] \bigg\{$	_	6-INCH SEWER STI CONTRACTOR). RE
w2	72 LF - 1" HDPE POLY PIPE WATER SERVICE LATERAL.] {	(s1)	LOCATION. CONST ELEVATION SHALL RIM = 15.00'
w3)	SEE WATER CONNECTION DETAIL , THIS SHEET.	}		IE. = 12.00'
	ELECTRIC	1 \	(s2)	5 LF - 6" SDR26 @ 2
e1)	MAIN ELECTRIC SERVICE ENTRANCE & DISCONNECT (SEE ARCHITECTURAL PLANS.)		<u>\$3</u>	CONSTRUCT 6" SE RIM = 14.05' IE. = 11.90'
e2	UNDERGROUND SECONDARY ELECTRICAL SERVICE. (GC SHALL COORDINATE WITH UTILITY PROVIDER FOR RESPONSIBILITY AND CONSTRUCTION REQUIREMENTS.)		<u>\$4</u>	38 LF - 6" SDR26 @
(e3)	NEW ELECTRICAL PAD MOUNTED TRANSFORMER. SEE ELECTRICAL PLANS. (GC SHALL COORDINATE WITH POWER PROVIDER FOR	1 {	(s5)	CONSTRUCT 6" SE RIM = 13.86' IE. = 11.15'
_	RESPONSIBILITY AND CONSTRUCTION REQUIREMENTS.)	1 {	(s6)	28 LF - 6" SDR26 @
(e4)	UNDERGROUND PRIMARY ELECTRICAL SERVICE. SEE ELECTRICAL PLANS FOR CONTINUATION. (GC SHALL COORDINATE WITH UTILITY PROVIDER FOR RESPONSIBILITY AND CONSTRUCTION REQUIREMENTS.)		(s7)	CONSTRUCT 6" SE RIM = 14.20' IE. = 9.68'
		>	<u>\$8</u>	60 LF - 6" SDR26 @
		>	_	CONTRACTOR TO CONSTRUCT 6" SE

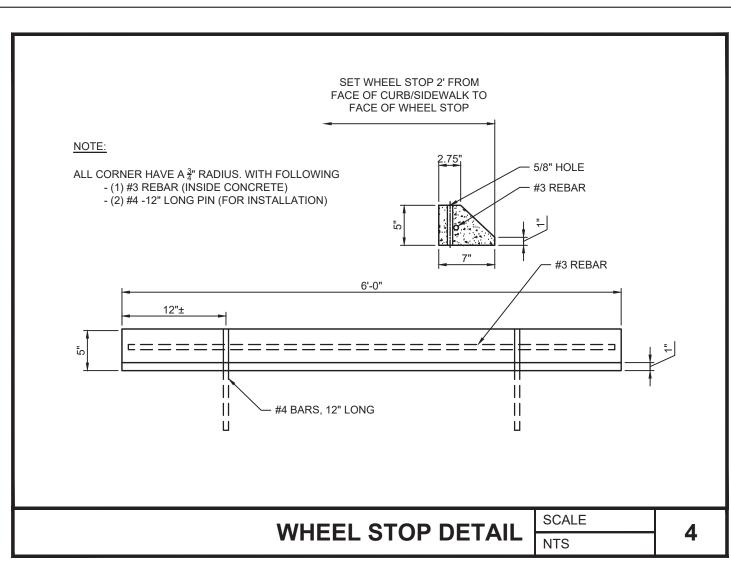


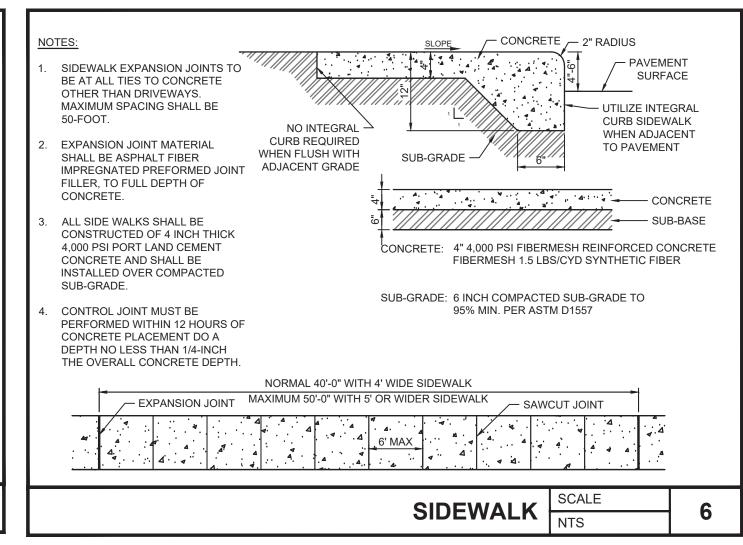


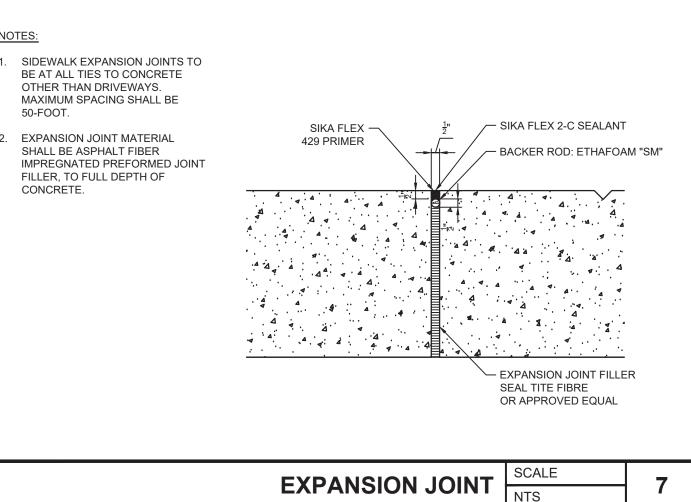


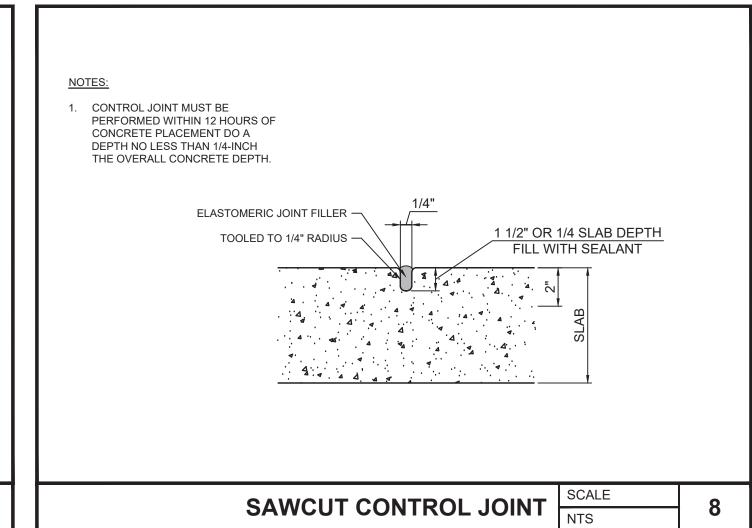


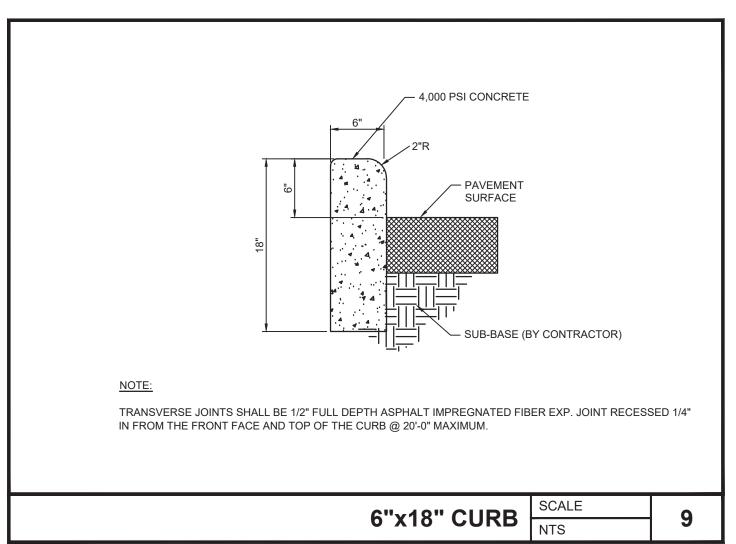


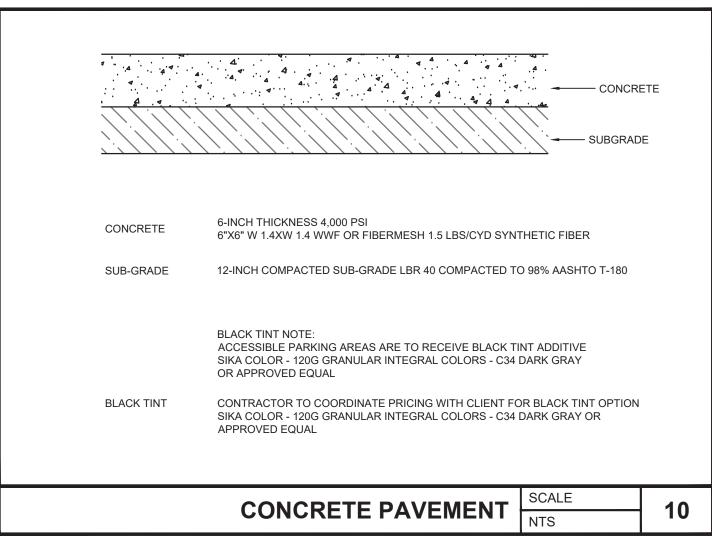


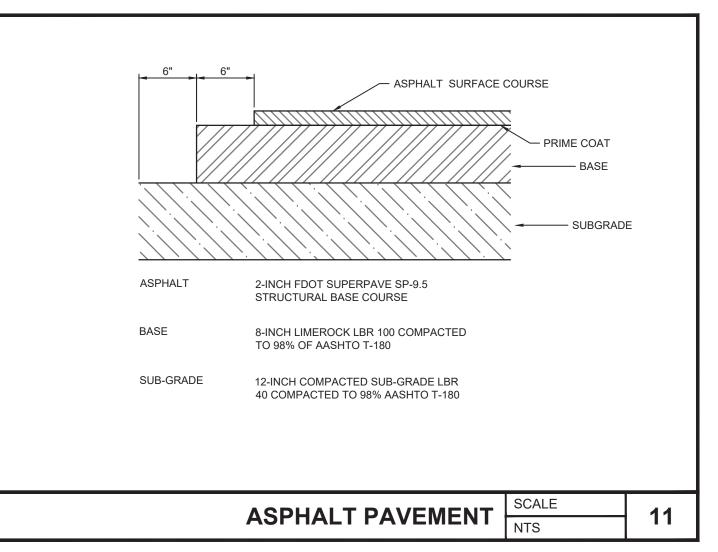


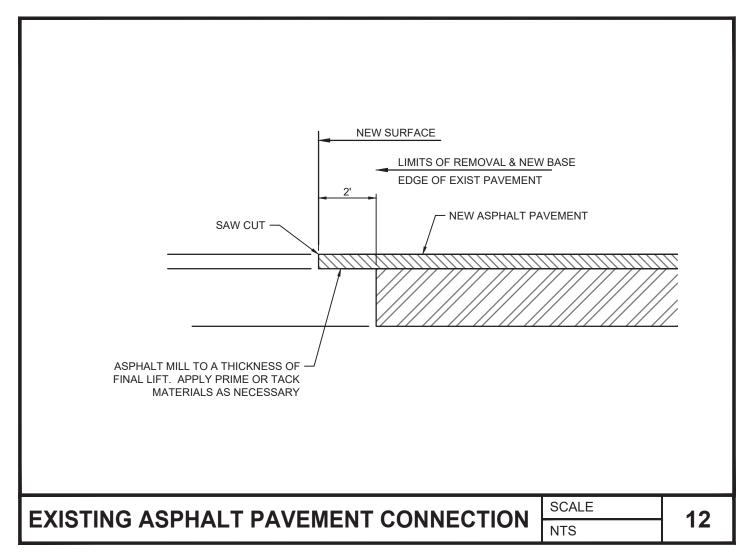


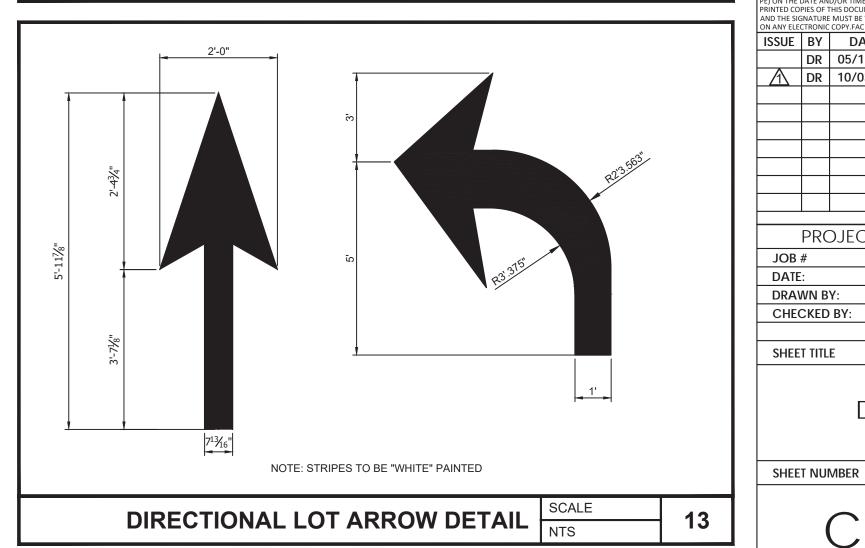














550 S. Caldwell Street P: 704.981.8951 Suite 1800 Lic. #: AA - 0003590 Charlotte, NC 28202 | www.bdgllp.com





Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889 IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

DATE

PE) ON THE PRINTED CO AND THE SIG	DATE AN PIES OF SNATURE	D/OR TIME STAMP SI THIS DOCUMENT ARE	HOWN USING A DIGITAL SIGNATURE. NOT CONSIDERED SIGNED AND SEALED BY A 3RD PARTY CERTIFICATE AUTHORITY .004
ISSUE	BY	DATE	DESCRIPTION
	DR	05/15/25	ISSUE FOR PERMIT
Λ	DR	10/03/25	RAI ROUND 1

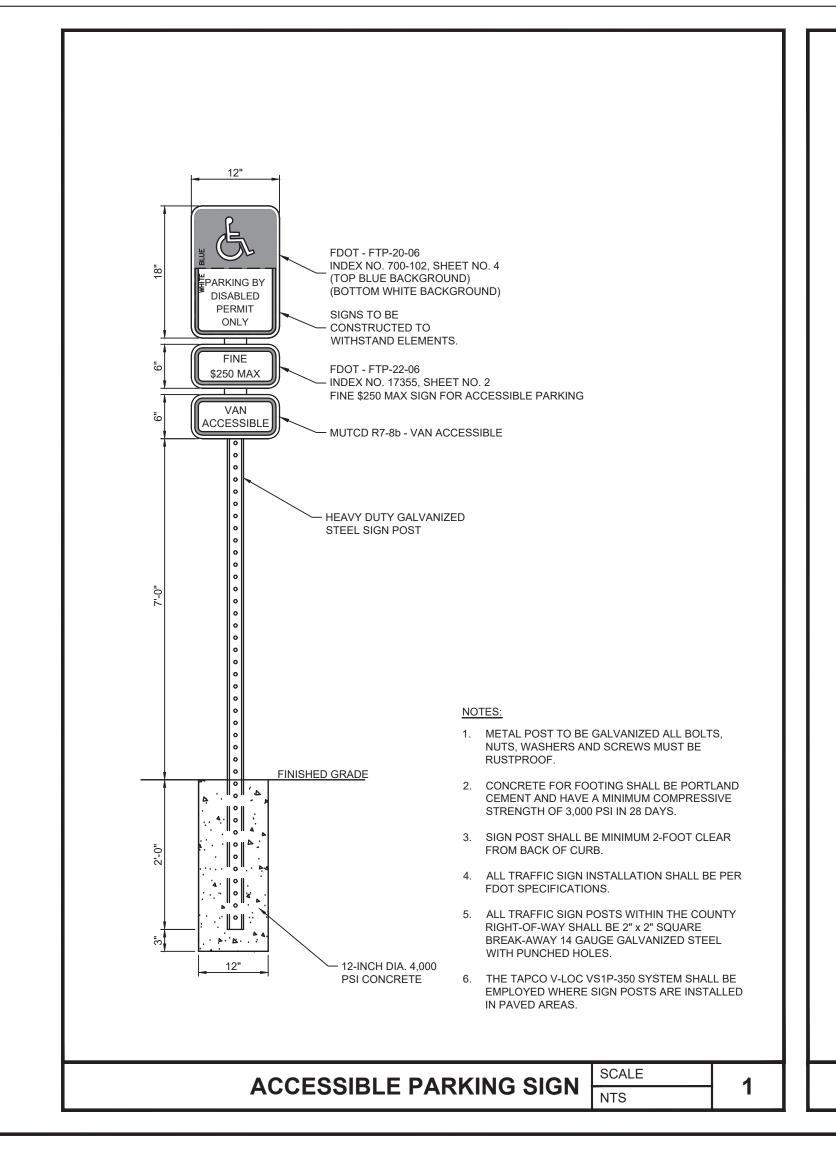
PROJECT INFORMATION JOB# 12/31/24

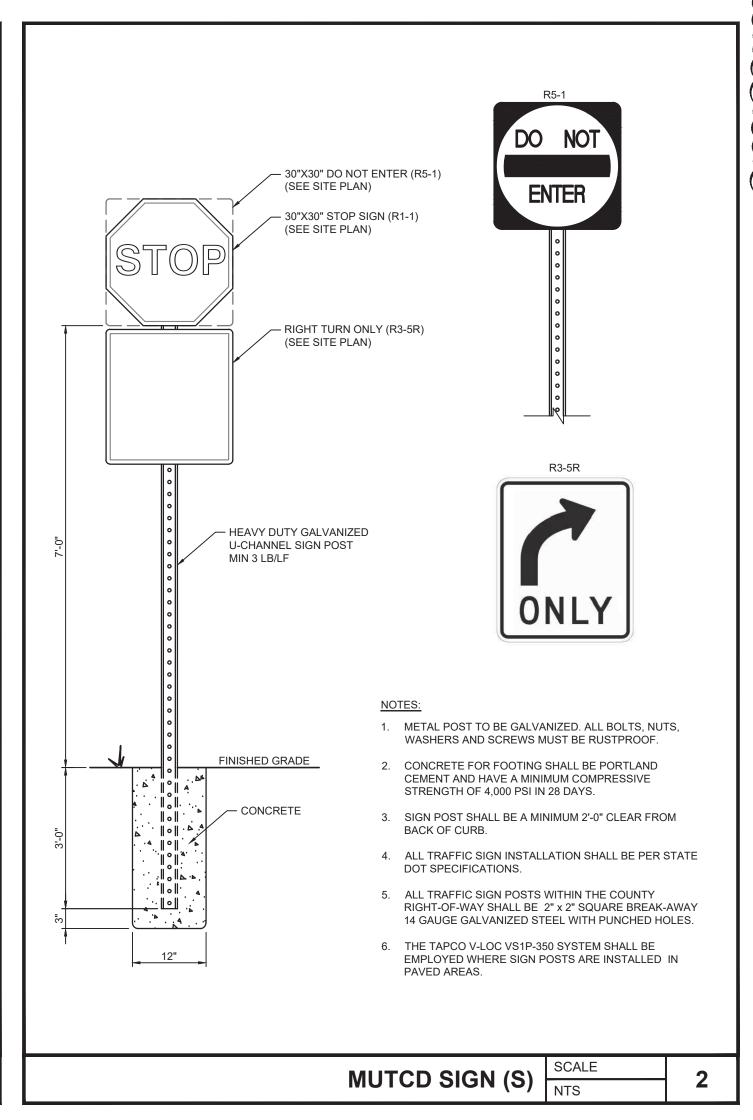
DATE: DRAWN BY: CHECKED BY:

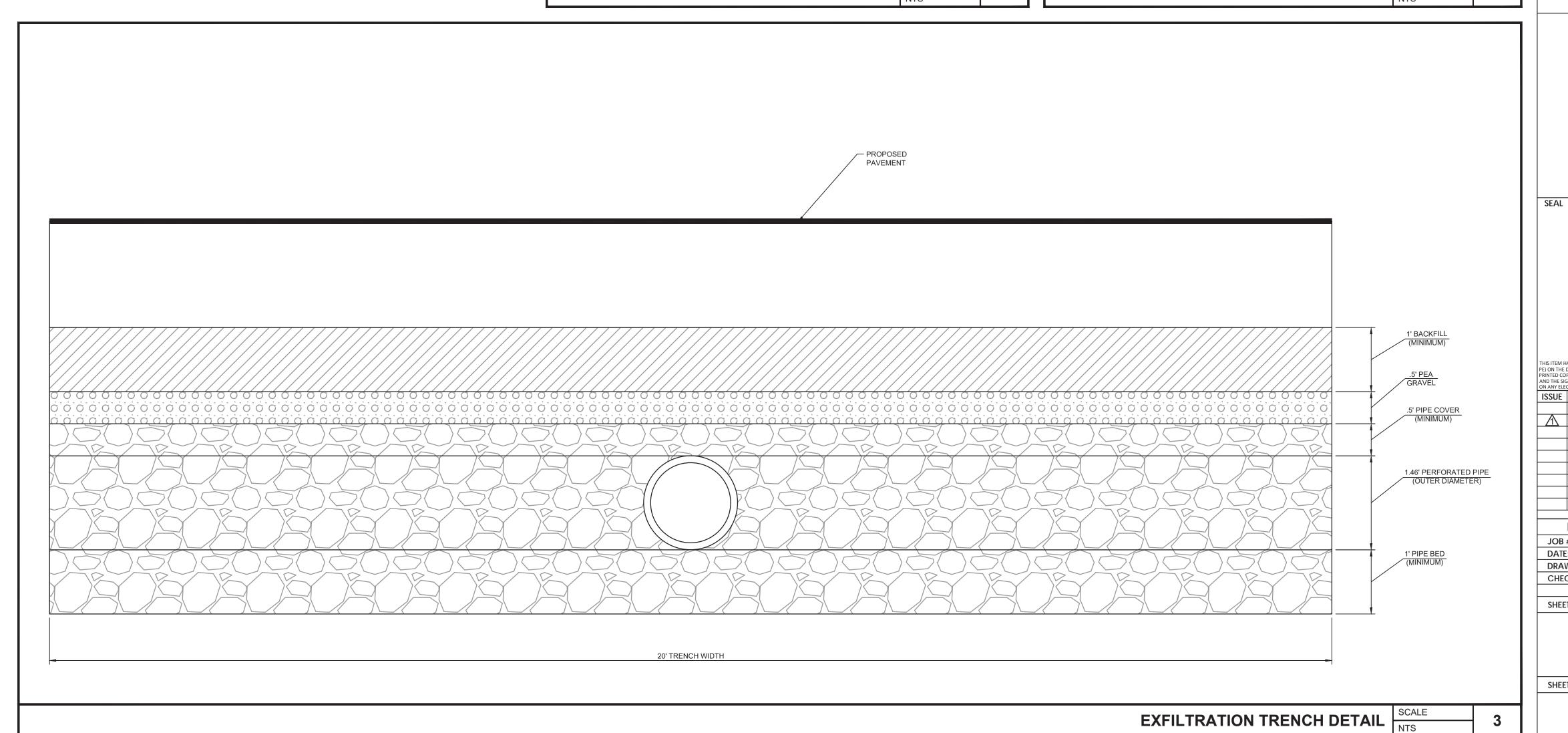
SHEET TITLE

DETAILS

C05.01







bod garchitects

550 S. Caldwell Street P: 704.981.8951
Suite 1800 Lic. #: AA - 0003590
Charlotte, NC 28202 www.bddllp.com

Charlotte, NC 28202 www.bdgllp.com

FIFTH THIKE

IFTH THIRD BANK DELRAY BEACH

INFANTY

INFINITY ENGINEERING

1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

DATE

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHAC
PE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY
ON ANY ELECTRONIC COPY.FAC 61G15-23.004

ISSUE BY DATE DESCRIPTION

DR 05/15/25 ISSUE FOR PERMIT

DR 10/03/25 RAI ROUND 1

PROJECT INFORMATION

 JOB #
 240661

 DATE:
 12/31/24

 DRAWN BY:
 IEG

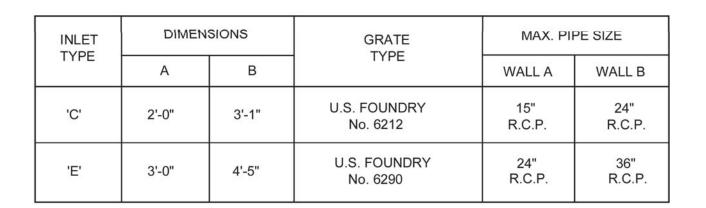
 CHECKED BY:
 SJ

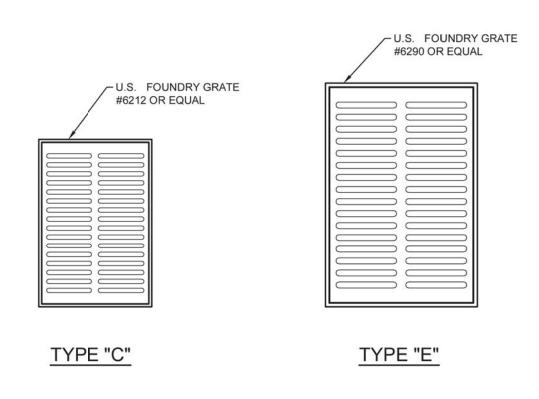
SHEET TITLE

DETAILS

SHEET NUMBER

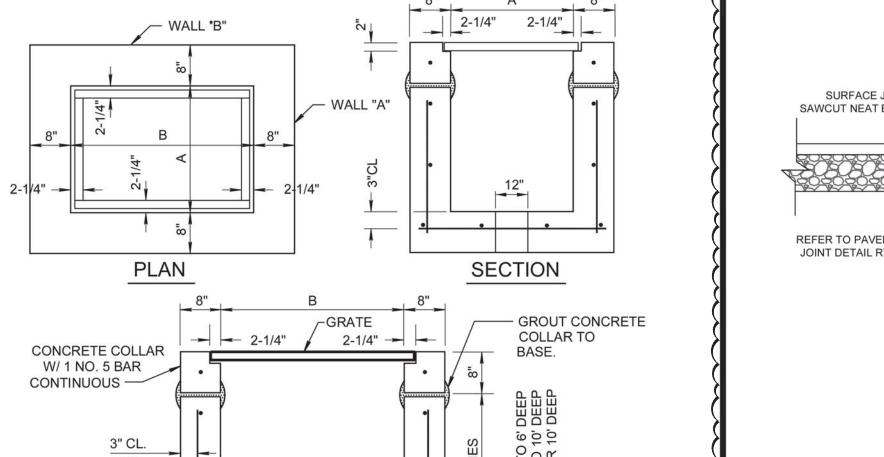
C05.02





CITY of DELRAY BEACH

- 1. ALL GRATES SHALL BE SUITABLE FOR H-20 LOADING (HIGHWAY TRAFFIC LOADS)
- 2. WHEN INSTALLED IN PAVEMENT OR WITHIN 6' OF PAVEMENT USE U.S.F. 4160-6210



SECTION * SEE TYPICAL BACKFILL DETAIL GU 2	TYP. O. 4 BARS — 12" O.C. CH WAY	12"	•	•	VAR	8": UP 7 10": 6' T(12": OVE	
		SECTIO	N * SEE	E TYPIC	CAL BACK	KFILL DET	AIL GU 2

'C'	2'0"	3'1"	U.S. FOUNDRY NO. 6212	15" R.C.P.	24" R.C.P.
'E'	2'0"	4'6"	U.S. FOUNDRY	24"	36"
	3'0"	4'6"	NO. 6290	R.C.P.	R.C.P.

1. INLET TO BE PRECAST WITH CLASS 'A' 4000 P.S.I. CONCRETE.

- ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
- 3. 12" DIAMETER WEEP HOLE REQUIRED ON ALL STRUCTURES WHICH HAVE A BOTTOM ELEVATION ABOVE THE WATER TABLE EXCEPT IN

TYPE C & E INLET DETAIL

D9.0

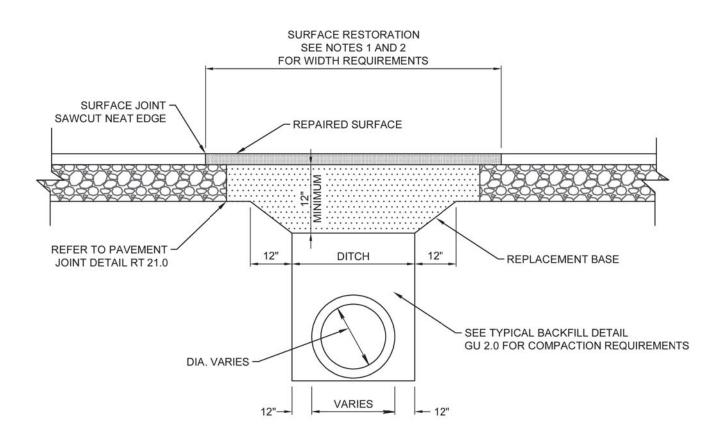
- WELLFIELDS. 4. 18" SUMP REQUIRED IN ALL DRAINAGE STRUCTURES.
- SEE BEDDING DETAIL D 3.0

CITY of DELRAY BEACH

434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 3344

PUBLIC WORKS DEPARTMENT

6. ALL STRUCTURES TO BE 4 SIDED ANGLE SHOULDERS.



SECTION - WHERE APPLICABLE

- FOR COMMERCIAL PROJECTS THAT DAMAGE THE ROADWAY SURFACE THE ROADWAY SHALL BE MILLED AND RESURFACED 50' IN EACH DIRECTION FROM THE DAMAGED AREA. MILLING AND RESURFACING SHALL BE FOR THE
- FULL LANE WIDTH OF ANY DAMAGED LANE FOR RESIDENTIAL PROJECTS THAT DAMAGE THE ROADWAY SURFACE THE ROADWAY SHALL BE MILLED AND RESURFACED FOR THE WIDTH OF THE RESIDENTIAL PROPERTY (MIN. 50' REPAIR LENGTH). MILLING AND
- RESURFACING SHALL BE FOR THE FULL LANE WIDTH OF ANY DAMAGED LANE. MILLING DEPTH SHALL BE 1" AND RESURFACING SHALL BE 1" TYPE S-III ASPHALTIC CONCRETE. BASE MATERIAL SHALL BE PLACED IN TWO LIFTS AND EACH LIFT COMPACTED TO 98% MAXIMUM DENSITY PER
- AASHTO T-180. MAX LIFT THICKNESS SHALL BE 6".
- 24" EXCAVATEABLE FLOWABLE FILL MIN. 100 P.S.I. MAY BE USED IN LIEU OF 12" BASE ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.

CITY of DELRAY BEACH

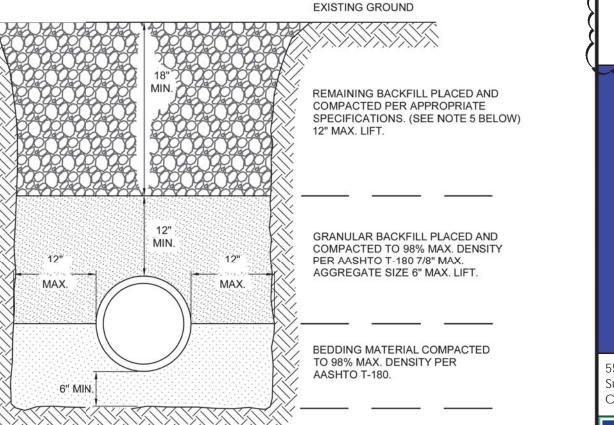
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PUBLIC WORKS DEPARTMENT

- ALL DISTURBED PAVEMENT MARKINGS SHALL BE RESTORED IN ACCORDANCE WITH CITY STANDARDS. SURFACE MATERIAL SHALL BE S-III ASPHALTIC CONCRETE (FOR TRENCH REPAIR, THICKNESS SHOULD BE TWICE THE
- THICKNESS OF THE ADJACENT EXISTING ASPHALT). ANY PAVEMENT CUTS SHALL BE COLD PATCHED AT THE END OF EACH WORKING DAY TO FACILITATE UNHINDERED

GU 1.0

PAVEMENT REPAIR DETAIL



(AASHTO T-180)

CITY of DELRAY BEACH

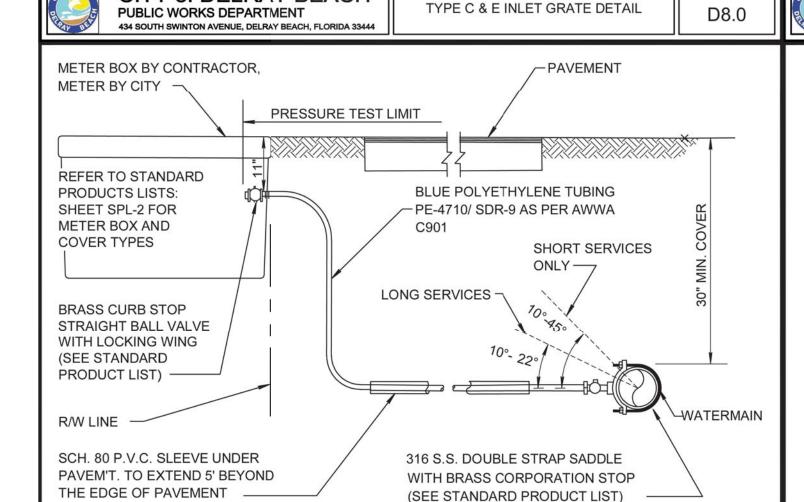
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 3344

PUBLIC WORKS DEPARTMENT

- UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED OFF SITE AND DISPOSED IN A PROPER LANDFILL; BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" -7/8" SIZING.
- THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- 4. THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
- 5. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS. 6. COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT AND TO 95% DENSITY ELSEWHERE PER
- 7. COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS, CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.

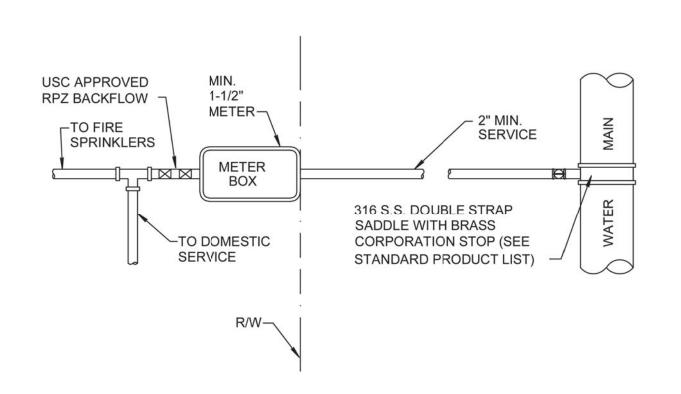
TYPICAL BACKFILL DETAIL





NOTES:

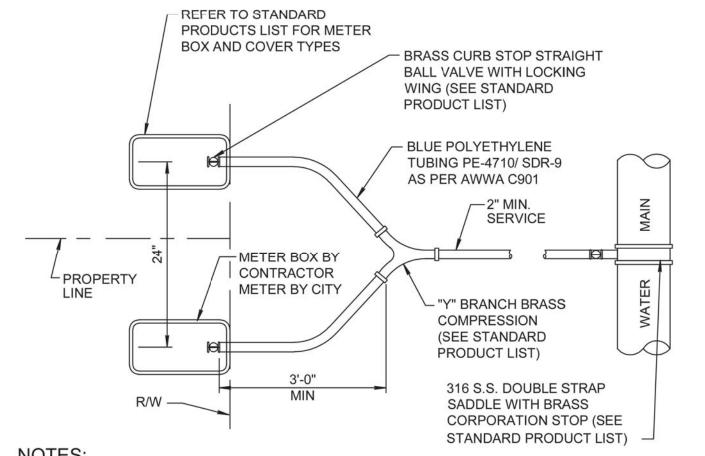
- 1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" ON CENTER.
- SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.
- ALL METERS REQUIRE A LOCKING BRASS CURB STOP WITH LOCK WING (1"MIN.).
- NO FITTINGS BETWEEN CORPORATION STOP AND BRANCH ASSEMBLY.
- MAXIMUM SERVICE LENGTH IS 100' TO METER.
- CASING PIPE I.D. SHALL BE SERVICE O.D. PLUS 1" MINIMUM. MINIMUM BEND RADIUS ON SERVICES SHALL BE 14" ON ALL SERVICES BEHIND METER.
- METER SIZE WILL BE DETERMINED BY PUBLIC UTILITIES DEPT. UPON APPLICATION FOR SERVICE.
- ALL VALVES TO BE BALL VALVES.
- 10. METER BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 11. ALL SERVICES UNDER ROADWAYS ARE TO BE INSTALLED BY TRENCHLESS METHOD, UNLESS OTHERWISE APPROVED.
- 12. ALL EXISTING SERVICES TO BE FIELD VERIFIED BY BUILDER/CONTRACTOR/ DEVELOPER; IF EXISTING SERVICE IS GALVANIZED, BUILDER/CONTRACTOR/ DEVELOPER SHALL REPLACE WITH POLYETHYLENE PIPING FROM MAIN TO THE METER.
- 13. ALL WATER SERVICE SHALL BE A MINIMUM OF 2".
- 14. WATER METERS SHALL BE LOCATED OUTSIDE ANY DRIVEWAYS BY 2'



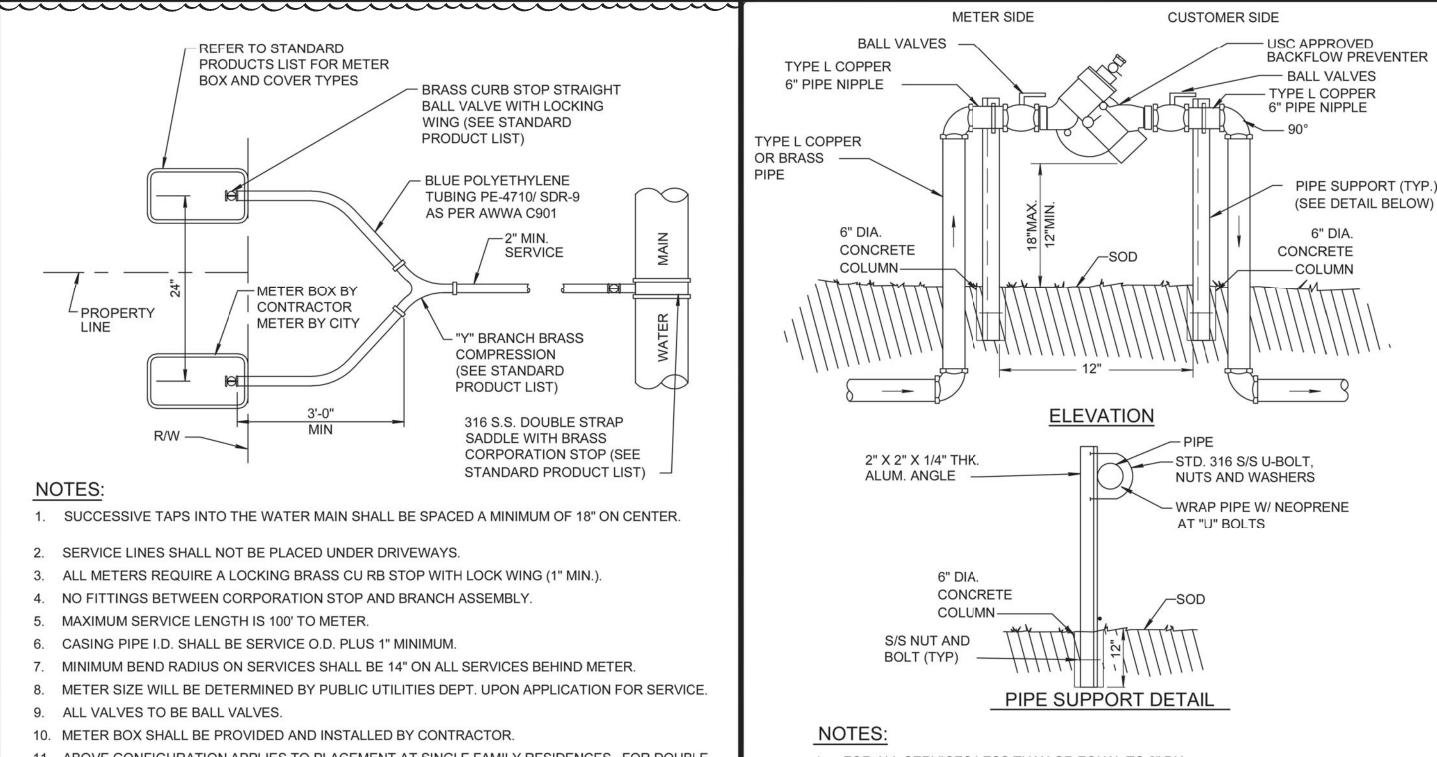
NOTES:

(1"MIN.).

- 1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" ON CENTER.
- 2. SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.
- 3. ALL SERVICE LINES REQUIRE A LOCKING BRASS CURB STOP WITH LOCK WING
- 4. NO FITTINGS BETWEEN CORPORATION STOP AND BRANCH ASSEMBLY.
- MAXIMUM SERVICE LENGTH IS 100' TO METER.
- 6. CASING PIPE I.D. SHALL BE SERVICE O.D. PLUS 1" MINIMUM.
- 7. MINIMUM BEND RADIUS ON SERVICES SHALL BE 14" ON ALL SERVICES BEHIND METER.
- ALL VALVES TO BE BALL VALVES.
- 9. METER BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 10. ALL EXISTING SERVICES TO BE FIELD VERIFIED BY BUILDER/ CONTRACTOR/DEVELOPER; IF EXISTING SERVICE IS GALVANIZED, BUILDER/CONTRACTOR/DEVELOPER SHALL REPLACE WITH POLYETHYLENE PIPING FROM MAIN TO METER.



- 1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" ON CENTER.
- SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.
- 3. ALL METERS REQUIRE A LOCKING BRASS CU RB STOP WITH LOCK WING (1" MIN.).
- NO FITTINGS BETWEEN CORPORATION STOP AND BRANCH ASSEMBLY.
- MAXIMUM SERVICE LENGTH IS 100' TO METER.
- 6. CASING PIPE I.D. SHALL BE SERVICE O.D. PLUS 1" MINIMUM.
- MINIMUM BEND RADIUS ON SERVICES SHALL BE 14" ON ALL SERVICES BEHIND METER.
- 8. METER SIZE WILL BE DETERMINED BY PUBLIC UTILITIES DEPT. UPON APPLICATION FOR SERVICE.
- 9. ALL VALVES TO BE BALL VALVES.
- 10. METER BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 11. ABOVE CONFIGURATION APPLIES TO PLACEMENT AT SINGLE FAMILY RESIDENCES. FOR DOUBLE SERVICES PLACED AT MULTI-FAMILY RESIDENCES THE TWO SERVICES SHALL BE PLACED WITHIN A DOUBLE METER BOX.
- 12. ALL EXISTING SERVICES TO BE FIELD VERIFIED BY BUILDER/CONTRACTOR/DEVELOPER; IF EXISTING SERVICE IS GALVANIZED, BUILDER/CONTRACTOR/DEVELOPER SHALL REPLACE WITH POLYETHYLENE PIPING FROM MAIN TO METER.



- 1. FOR ALL SERVICES LESS THAN OR EQUAL TO 2" DIA.
- 2. ABOVE GRADE PIPING SHALL BE BRASS OR TYPE "L" COPPER OR BRASS TUBING.
- 3. ALL COPPER JOINTS SHALL BE MADE WITH 95/5 SOLDER.
- 4. USC APPROVED RPZ BACKFLOW PREVENTER IS REQUIRED IN ACCORDANCE WITH CITY OF DELRAY BEACH CODE OF ORDINANCES TITLE V, CHAPTER 52.83.
- 5. USC APPROVED RPZ BACKFLOW PREVENTER IS REQUIRED FOR ALL COMMERCIAL

PROPERTIES AND ALL RESIDENTIAL PROPERTIES WITH FIRE SPRINKLER SYSTEMS.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 3344

DATE: 10-04-2024 REDUCED PRESSURE ZONE BACKFLOW PREVENTER

architects 550 S. Caldwell Street | P: 704.981.8951 Suite 1800 Lic. #: AA - 0003590 Charlotte, NC 28202 | www.bdgllp.com



GU 2.0

1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [n]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889 IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

DATE ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE D COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEA D THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO DATE DESCRIPTION DR | 05/15/25 **ISSUE FOR PERMIT** ∕**↑** | DR | 10/03/25 | **RAI ROUND 1**

PROJECT INFORMATION JOB#

DATE: 12/31/24 DRAWN BY: CHECKED BY:

SHEET TITLE DETAILS (CITY OF DELRAY

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE DELRAY BEACH, ELORIDA 3344

TYPICAL URBAN/REDEVELOPMENT AREA SERVICE CONNECTION

PW 12.0

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 3344

TYPICAL FIRE SERVICE CONNECTION

PW 13.0

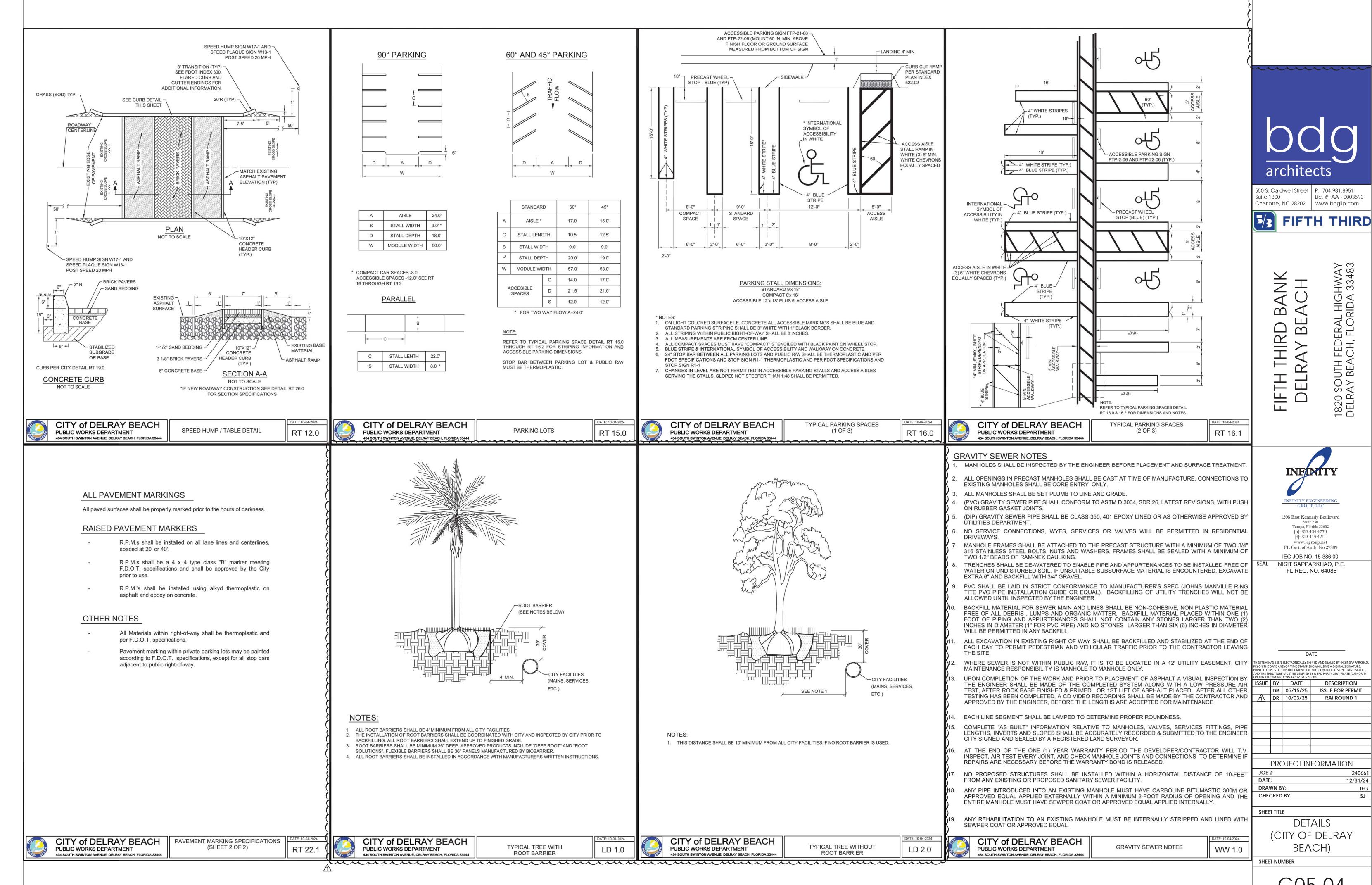
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 3344

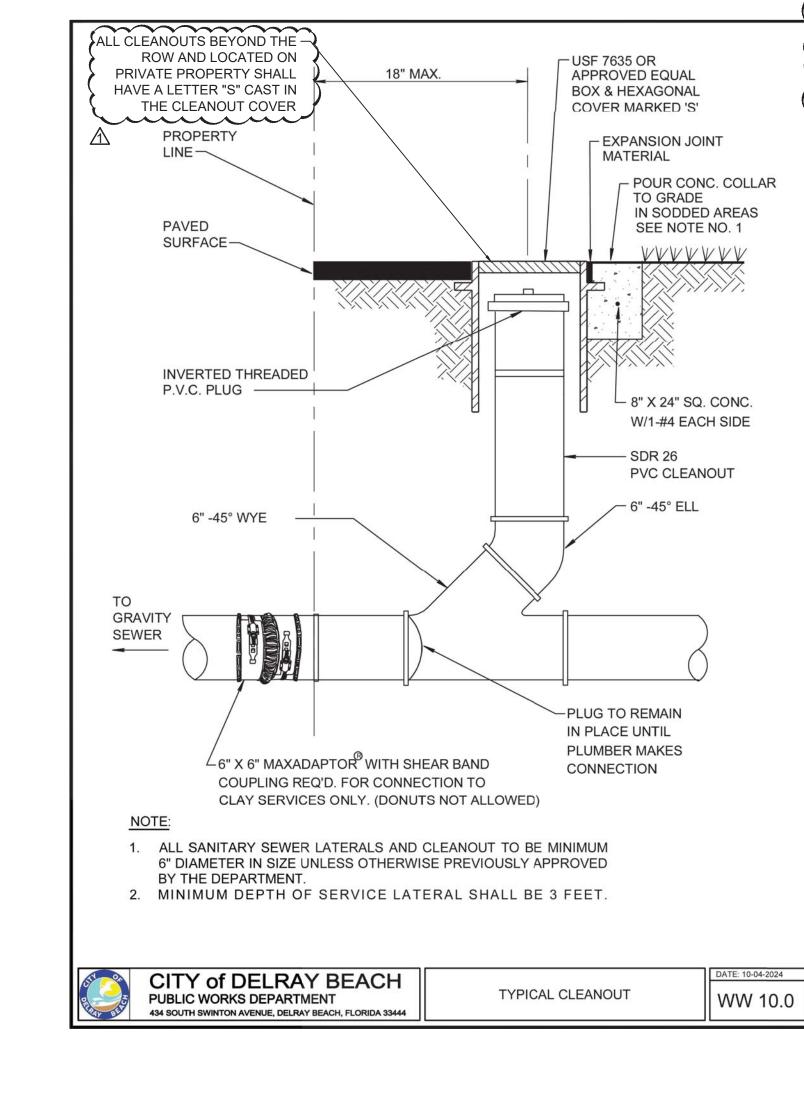
TYPICAL DOUBLE SERVICE CONNECTION

PW 14.0

ATE: 10-04-2024

BEACH) PW 16.0 **SHEET NUMBER**









BE

Lic. #: AA - 0003590

1820 SOUTH F DELRAY BEAG

1208 East Kennedy Boulevard
Suite 230
Tampa, Florida 33602
[p]: 813.434.4770
[f]: 813.445.4211

www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHAI DE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE.			
PRINTED CO AND THE SIG	PIES OF T	THIS DOCUMENT ARE	NOT CONSIDERED SIGNED AND SEALE BY A 3RD PARTY CERTIFICATE AUTHOR	
ISSUE	BY	DATE	DESCRIPTION	
	DR	05/15/25	ISSUE FOR PERMIT	
Λ	DR	10/03/25	RAI ROUND 1	
	•		•	
PROJECT INFORMATION				

JOB# 12/31/24

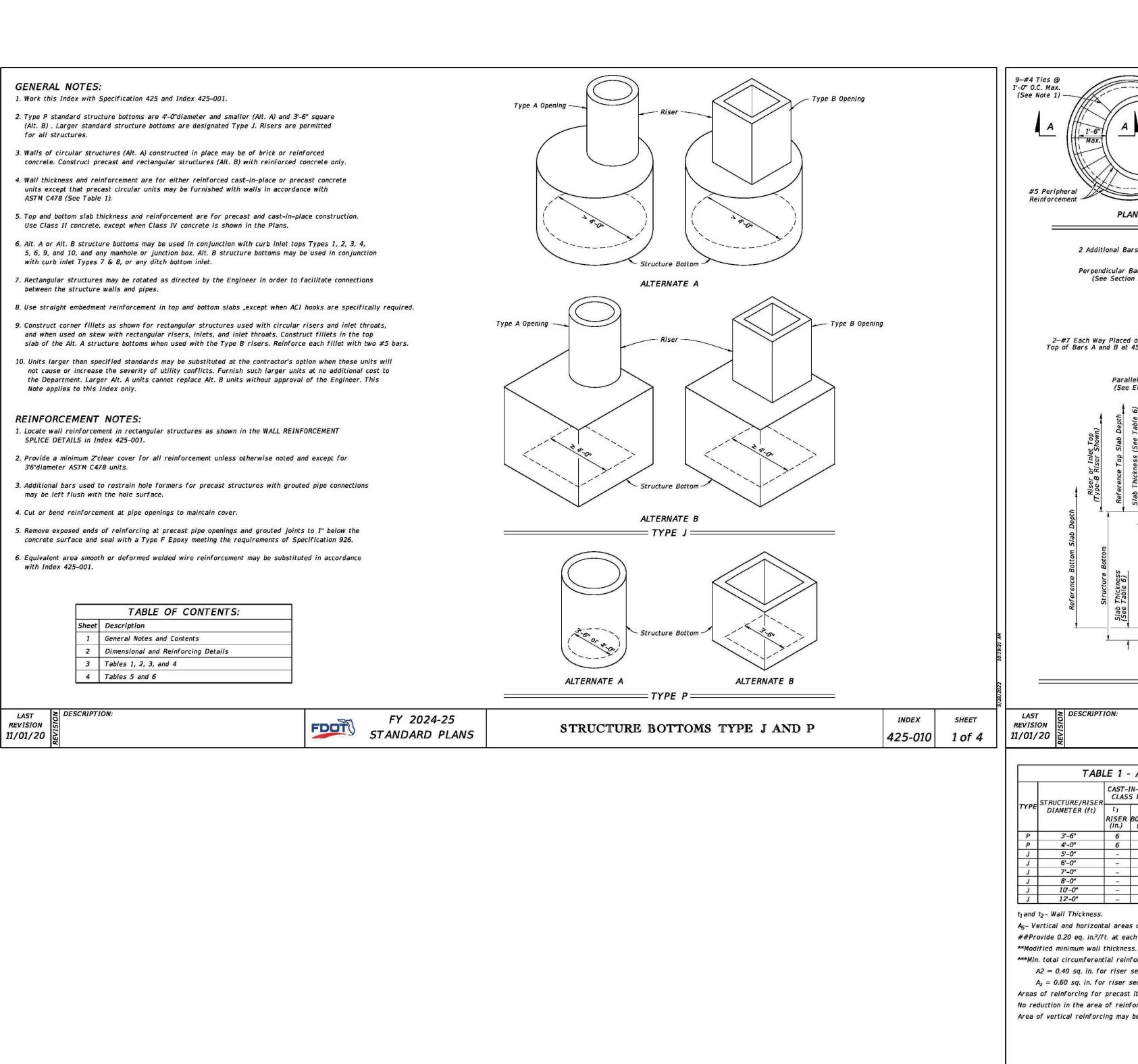
DATE: DRAWN BY: CHECKED BY:

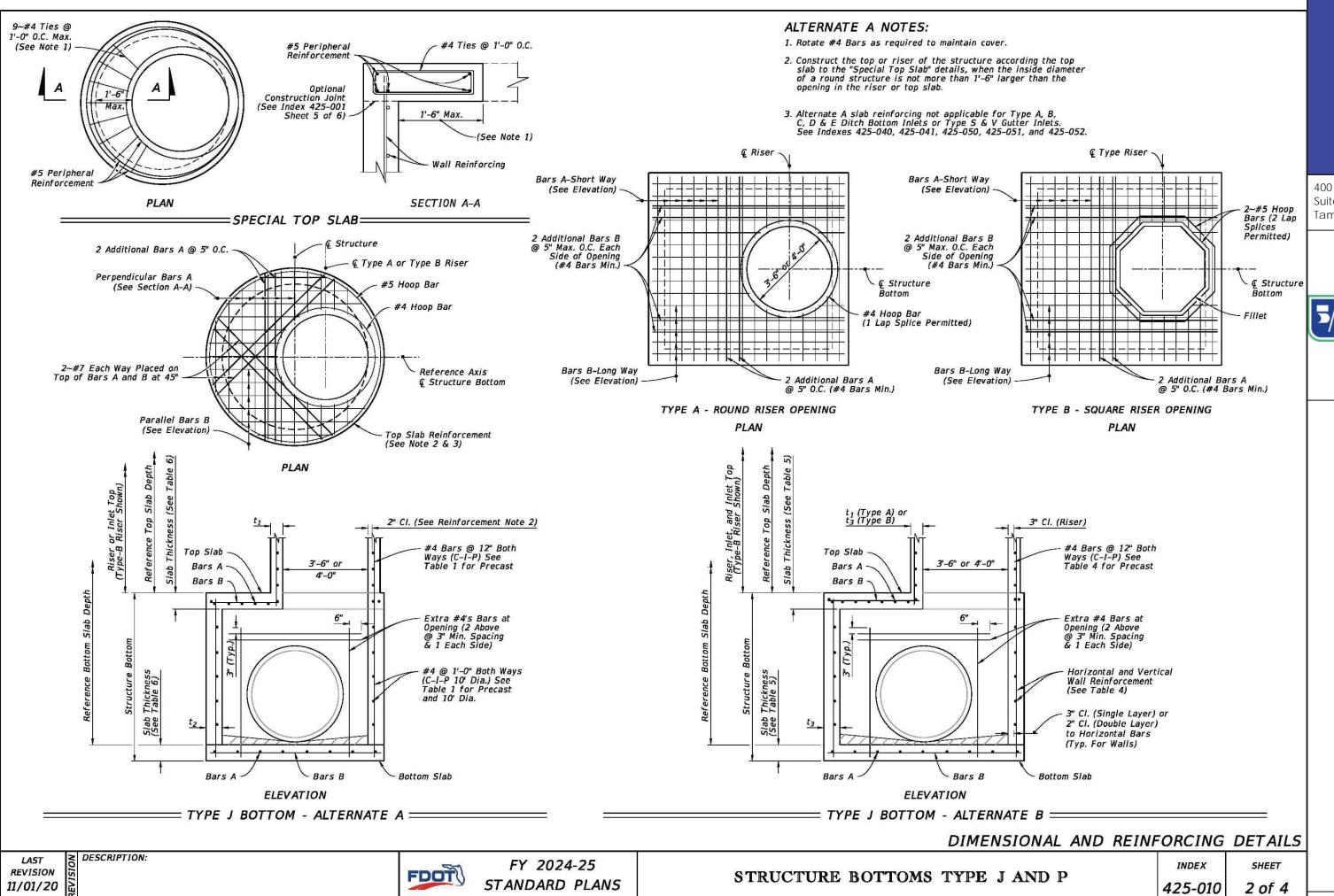
SHEET TITLE

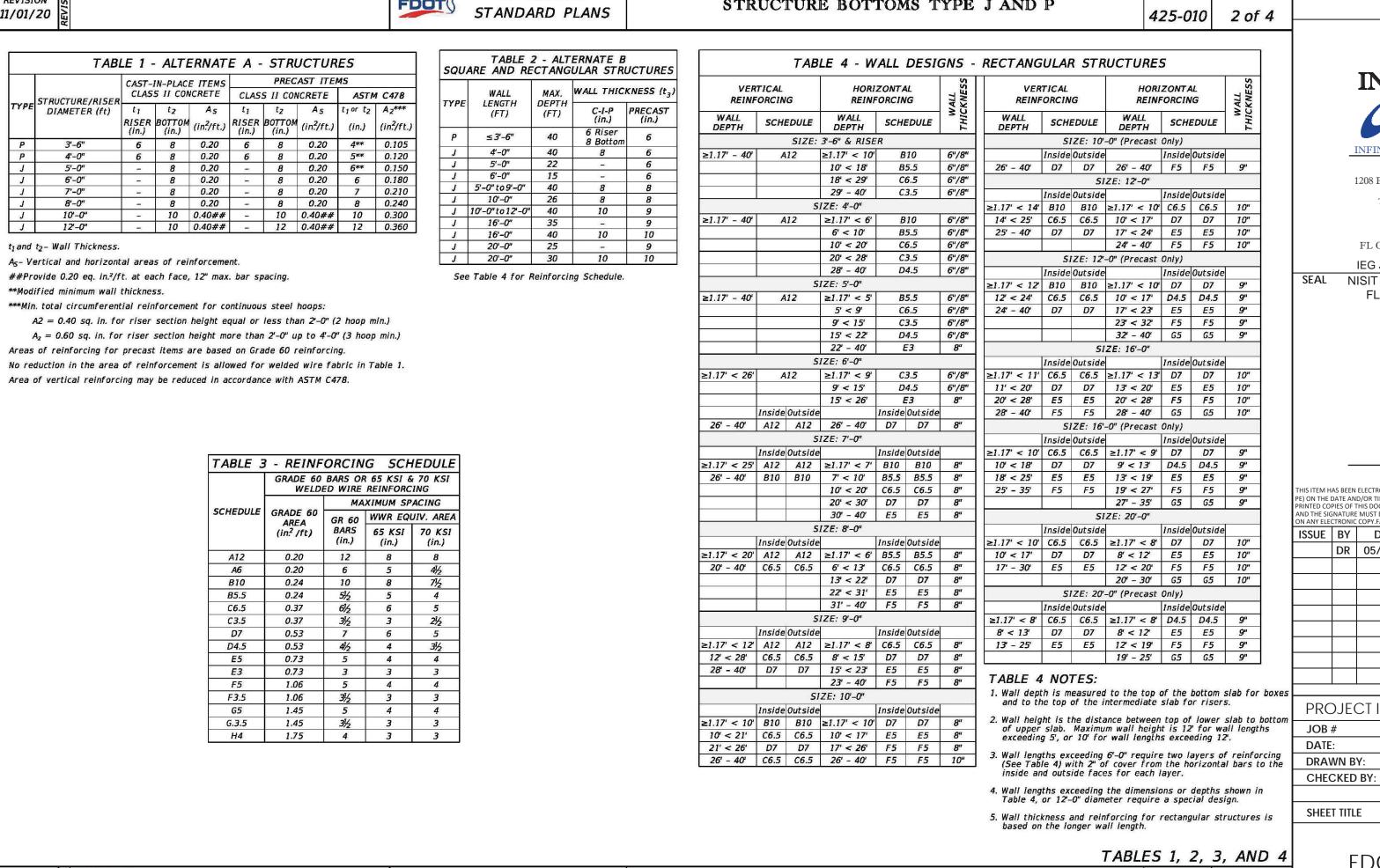
DETAILS (CITY OF DELRAY BEACH)

SHEET NUMBER

~~~~







STRUCTURE BOTTOMS TYPE J AND P

FY 2024-25

STANDARD PLANS

DESCRIPTION:

LAST

REVISION

11/01/20



400 N Ashley Drive, P: 813 - 323 - 9233 Lic. #: AA - 0003590 ampa, FL 33602 W: www.bdgllp.com

FIFTH THIRD

HIRD

INFINITY

INFINITY ENGINEERING GROUP, LLC

1208 East Kennedy Boulevard Tampa, Florida 33602 [p]: 813.434.4770

[f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889 IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

TEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKH) THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORIT ISSUE BY DATE DESCRIPTION DR | 05/15/25 | ISSUE FOR PERMIT

240661

12/31/24

PROJECT INFORMATION BLOCK DRAWN BY:

SHEET TITLE

FDOT DETAILS

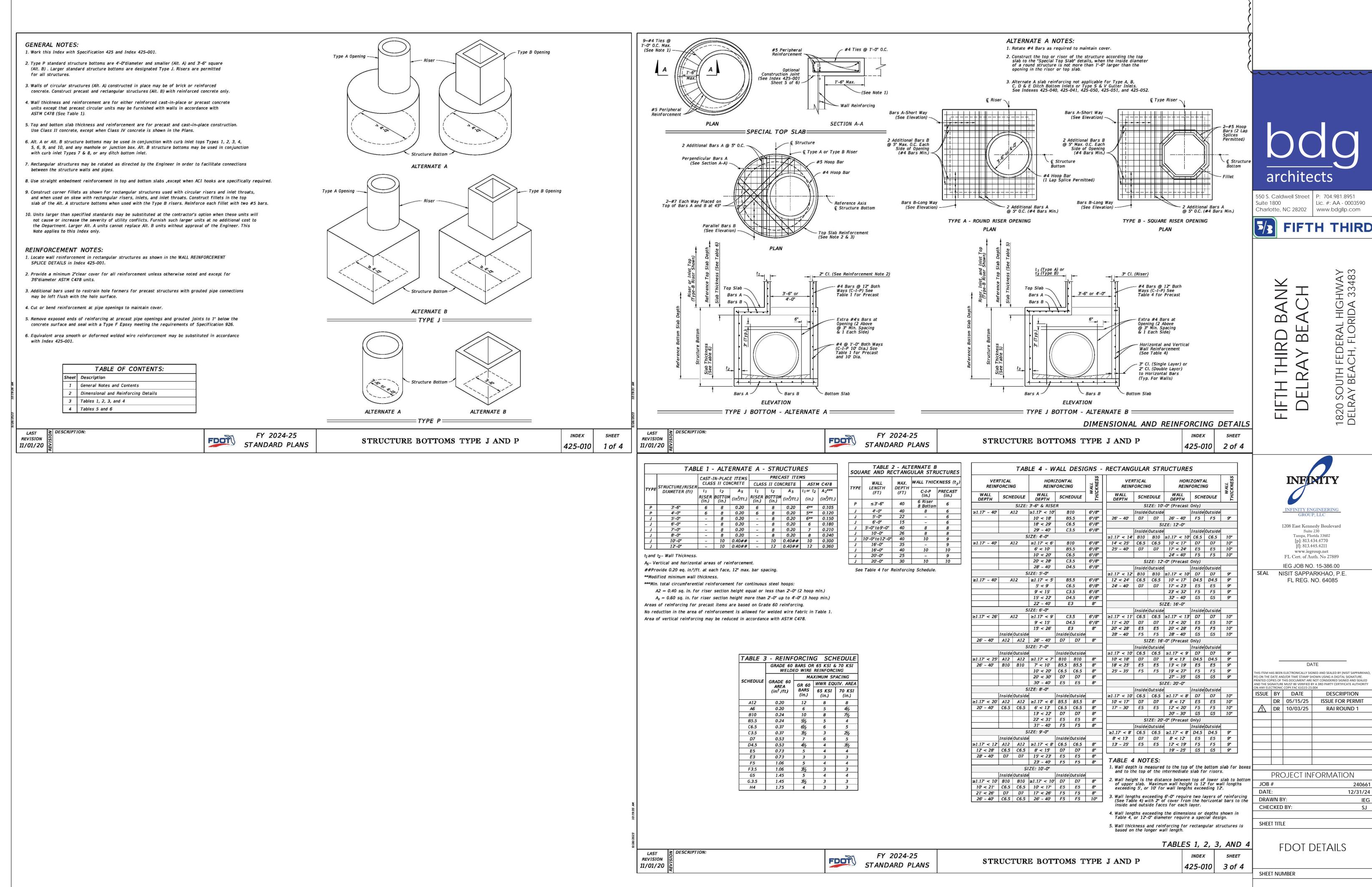
**SHEET NUMBER** 

INDEX

425-010 3 of 4

SHEET

C05.05



C05.06

# GENERAL NOTES:

- 1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe; corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, construct a concrete jacket in accordance with Index 430-001.
- 2. Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE, PVC, SRPE, or PP pipe, with metal pipe. When used in conjunction with a concrete mitered end sections, construct concrete jacket in accordance with Index 430-001.
- Class NS concrete cast-in-place reinforced slabs are required for all sizes of cross drain pipes.
   Construct slabs at 5½" thick, unless 3" thickness is called for in the Plans.
- 4. Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
- 5. Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
- 6. When existing multiple cross drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.

# 7. Saddle Slope:

- 1:4 Miter Slope to © of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter.

  Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger.

  Slope to the span line for pipe arch 28"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.
- 1:2 Miter Slope to © of pipe for round pipes less than or equal to 18"diameter and 1:2 for round pipes greater than or equal to 24" diameter.

  Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x53" or larger.
- 8. Quantities shown are for estimating purposes only.

DESCRIPTION:

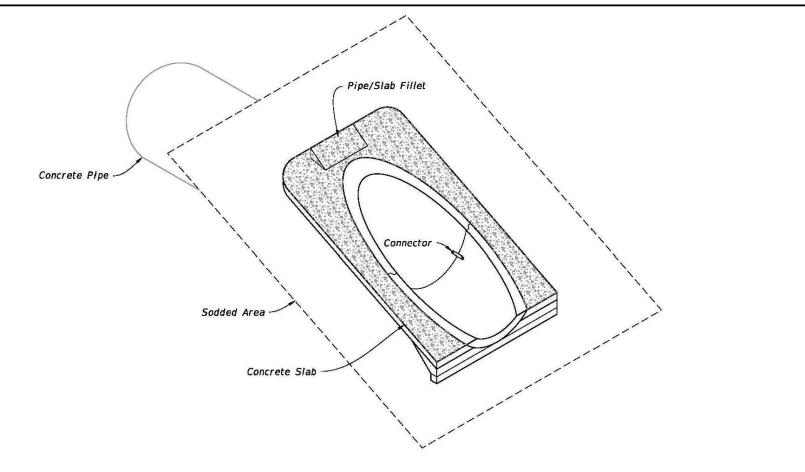
LAST

REVISION

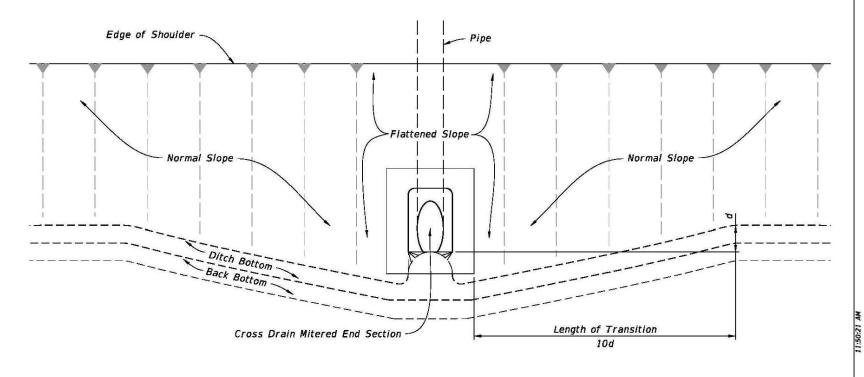
11/01/19

Slope 1:1 for all pipe arch sizes.

|       | TABLE OF CONTENTS:                                                      |  |  |  |  |
|-------|-------------------------------------------------------------------------|--|--|--|--|
| Sheet | Description                                                             |  |  |  |  |
| 1     | General Notes and Contents                                              |  |  |  |  |
| 2     | Single and Multiple Concrete Pipe                                       |  |  |  |  |
| 3     | Concrete Pipe Dimensions and Quantities                                 |  |  |  |  |
| 4     | Single and Multiple Corrugated Metal Pipe                               |  |  |  |  |
| 5     | Corrugated Metal Pipe Dimensions and Quantities                         |  |  |  |  |
| 6     | Concrete Pipe Connections and Corrugated Metal Pipe (CMP) Anchor Detail |  |  |  |  |



CROSS DRAIN MITERED END SECTION (Concrete Pipe Shown, Corrugated Metal Pipe Similar)



SLOPE AND DITCH TRANSITIONS =

LAST

REVISION

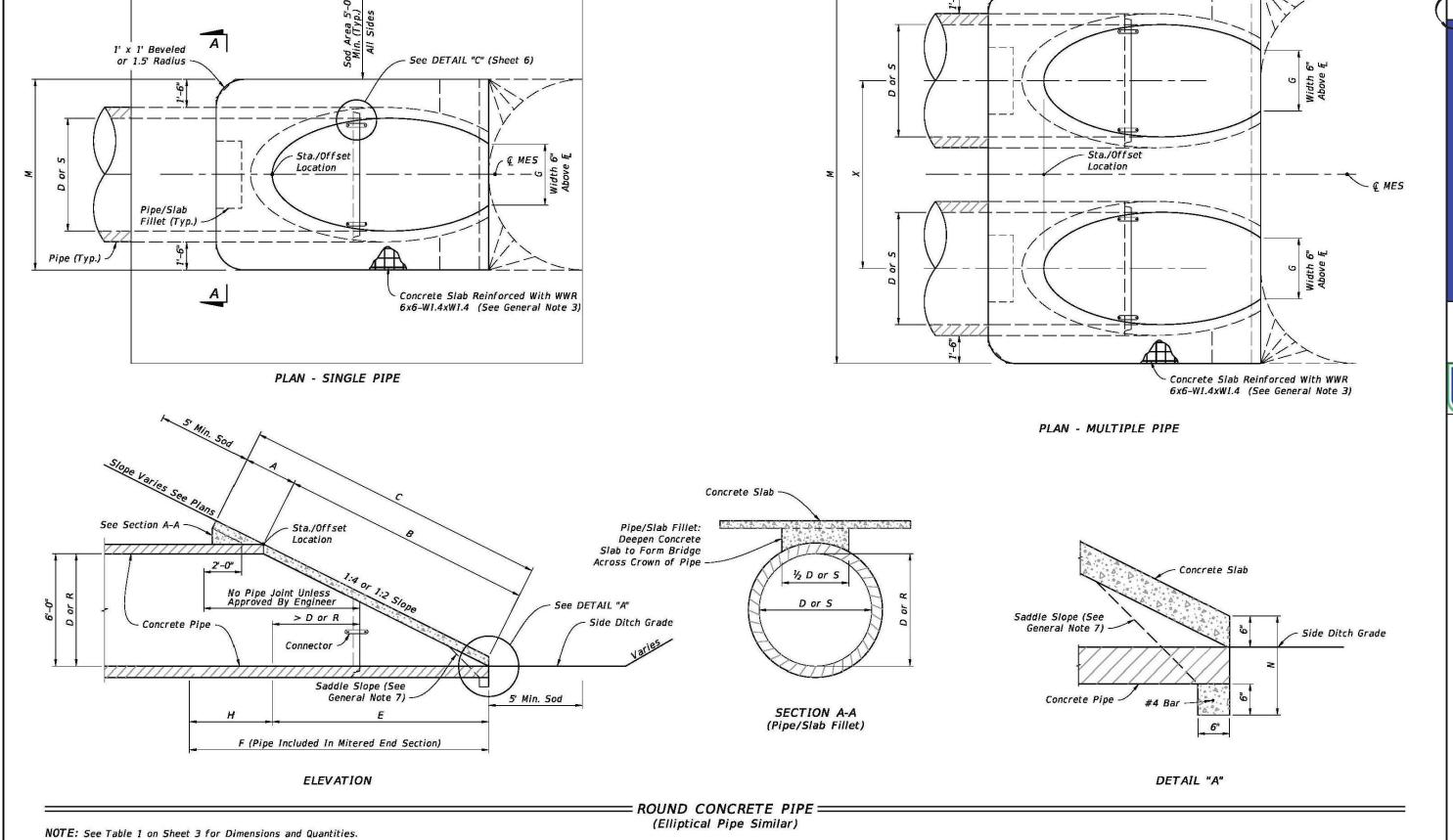
11/01/19

DESCRIPTION:

REVISION

11/01/19

|                |                                 |         |        | 101 |
|----------------|---------------------------------|---------|--------|-----|
| FY 2024-25     |                                 | INDEX   | SHEET  |     |
| STANDARD PLANS | CROSS DRAIN MITERED END SECTION | 430-021 | 1 of 6 |     |

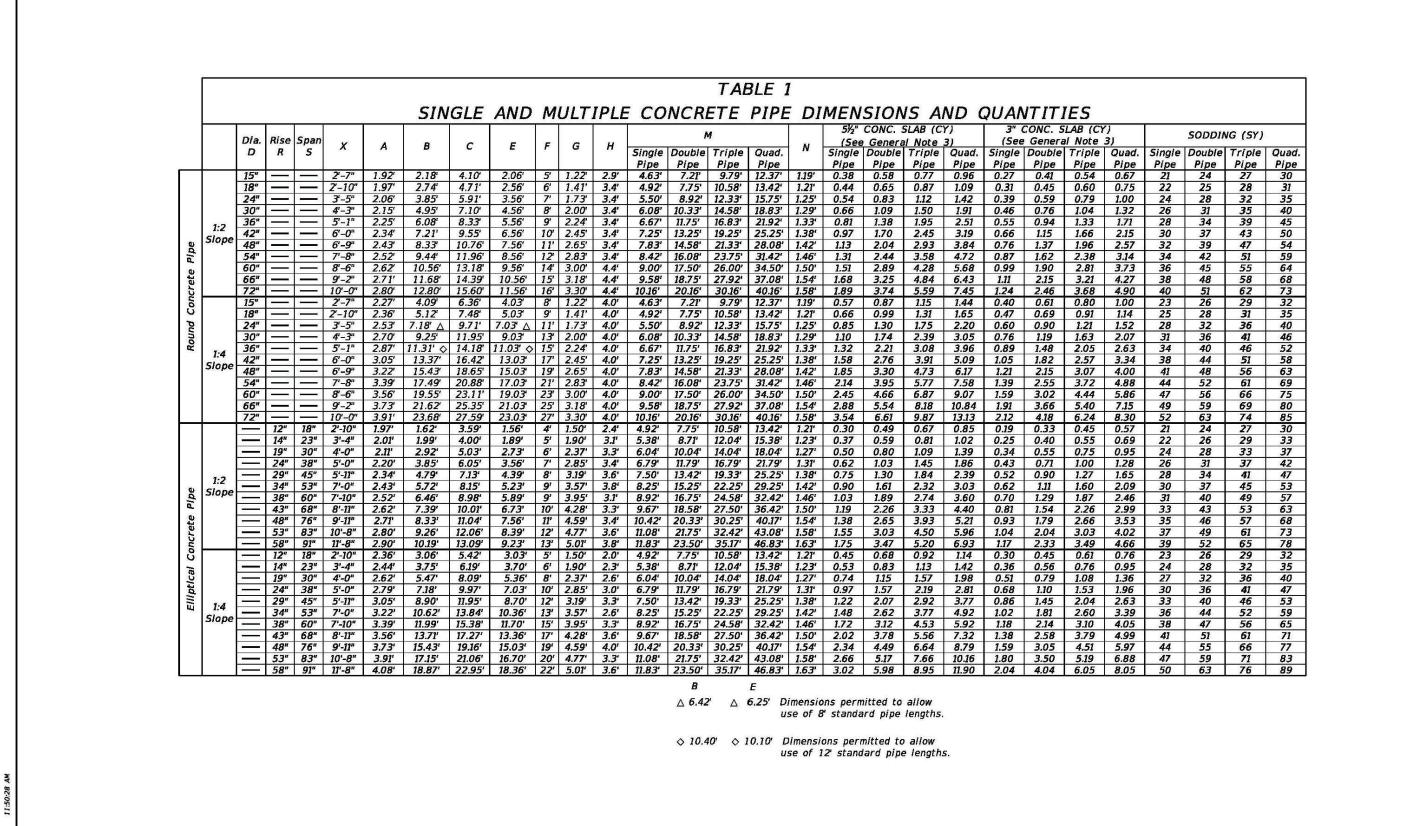


1' x 1' Beveled

or 1.5' Radius -

CROSS DRAIN MITERED END SECTION

CROSS DRAIN MITERED END SECTION



FY 2024-25

STANDARD PLANS

FY 2024-25

STANDARD PLANS

FIFTH THIF DELRAY

SINGLE AND MULTIPLE CONCRETE PIPE

CONCRETE PIPE DIMENSIONS AND QUANTITIES

430-021 3 of 6

430-021 2 of 6

architects

550 S. Caldwell Street | P: 704.981.8951

Charlotte, NC 28202 | www.bdgllp.com

FIFTH THIRD

Lic. #: AA - 0003590

INFINITY ENGINEERING

GROUP, LLC

1208 East Kennedy Boulevard
Suite 230
Tampa, Florida 33602

Suite 230
Tampa, Florida 33602
[p]: 813.434.4770
[f]: 813.445.4211
www.iegroup.net
FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

DATE

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHPE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALE AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORION ANY ELECTRONIC COPY.FAC 61G15-23.004

ISSUE BY DATE DESCRIPTION

DR 05/15/25 ISSUE FOR PERMIT

DR 10/03/25 RAI ROUND 1

PROJECT INFORMATION

JOB # 240661

DATE: 12/31/24

CHECKED BY:
SHEET TITLE

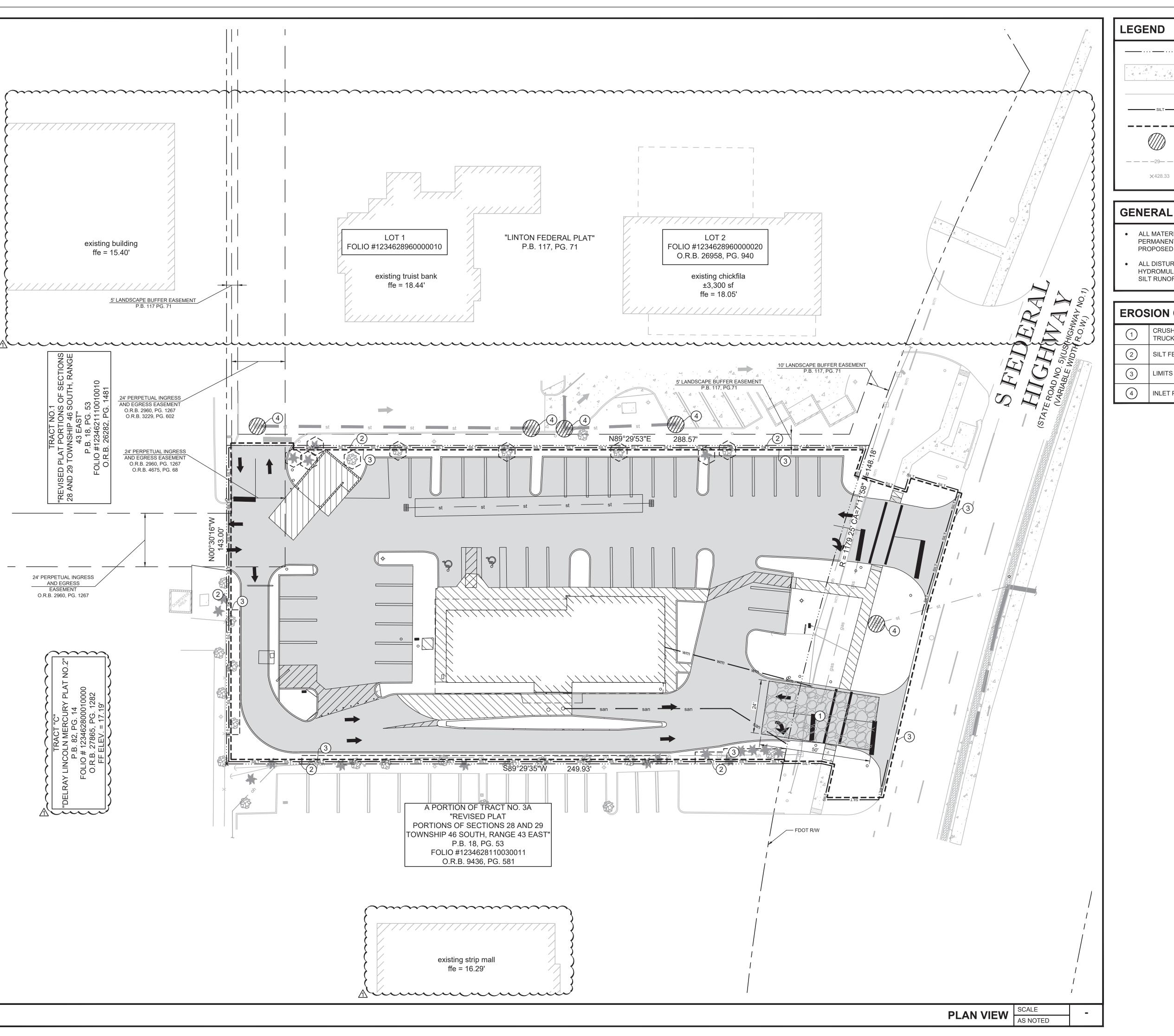
FDOT DETAILS

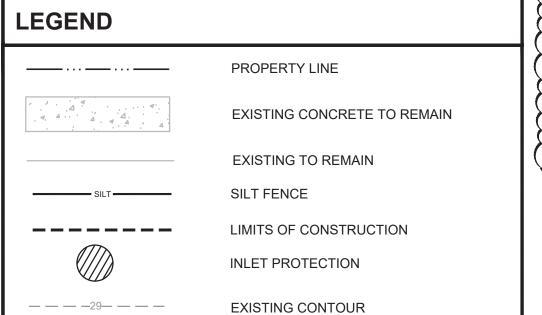
DRAWN BY:

SHEET NUMBER

C05.07

OWNER'S REQUIREMENTS





EXISTING GRADE ELEVATION

# **GENERAL NOTES**

- ALL MATERIALS INCLUDING FILL STOCKPILES SHALL NOT BE PERMANENTLY LOCATED ON THE UNDEVELOPED AREA OF PROPOSED DEVELOPMENT.
- ALL DISTURBED AREAS OF UNDEVELOPED PROPERTY SHALL BE HYDROMULCHED WITH SEED TO ESTABLISH TURN AND PREVENT SILT RUNOFF INTO THE STREETS.

# **EROSION CONTROL KEYED NOTES**

SCALE

+----

20'

40 '

60 '

|  | 1 | CRUSHED STONE CONSTRUCTION ENTRANCE AND CONCRETE TRUCK WASHOUT AREA |
|--|---|---------------------------------------------------------------------|
|  | 2 | SILT FENCE                                                          |
|  | 3 | LIMITS OF CONSTRUCTION (1.0 AC)                                     |
|  | 4 | INLET PROTECTION                                                    |



550 S. Caldwell Street | P: 704.981.8951 Lic. #: AA - 0003590

Charlotte, NC 28202 | www.bdgllp.com

5/3 FIFTH THIRD



1208 East Kennedy Boulevard Suite 230

Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00 SEAL NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHA PE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHOR ISSUE BY DATE DESCRIPTION ISSUE FOR PERMIT DR 05/15/25 ↑ DR 10/03/25 RAI ROUND 1

PROJECT INFORMATION

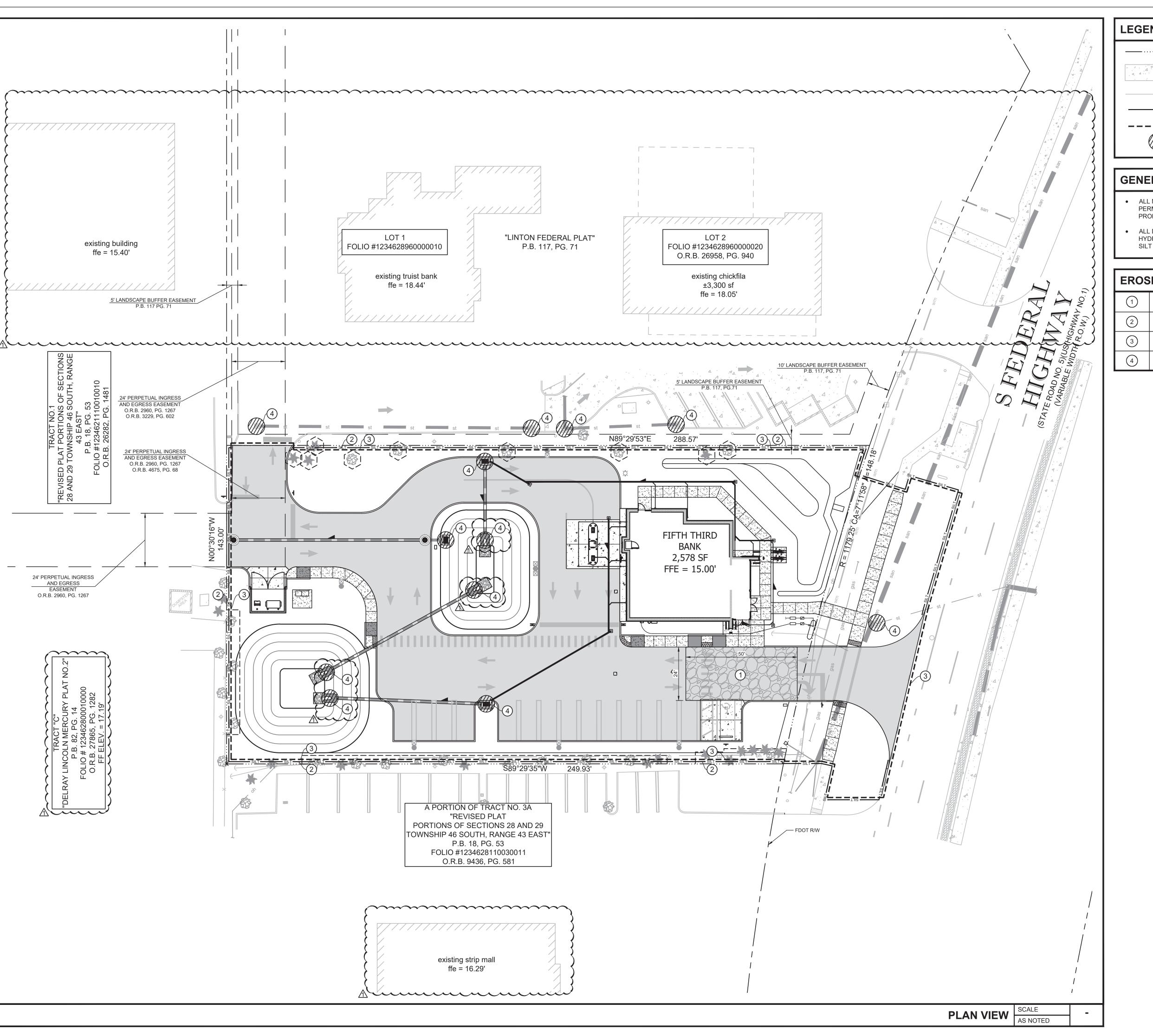
JOB# 12/31/24 DRAWN BY: CHECKED BY:

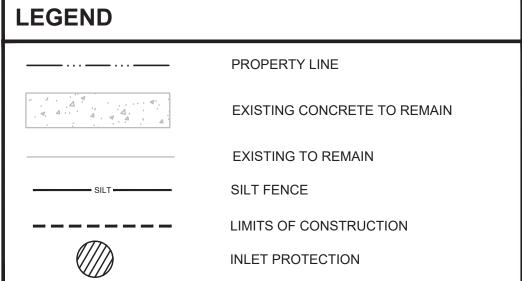
SHEET TITLE

**EROSION CONTROL** PLAN PHASE I

SHEET NUMBER

C06.02





# **GENERAL NOTES**

- ALL MATERIALS INCLUDING FILL STOCKPILES SHALL NOT BE PERMANENTLY LOCATED ON THE UNDEVELOPED AREA OF PROPOSED DEVELOPMENT.
- ALL DISTURBED AREAS OF UNDEVELOPED PROPERTY SHALL BE HYDROMULCHED WITH SEED TO ESTABLISH TURN AND PREVENT SILT RUNOFF INTO THE STREETS.

# **EROSION CONTROL KEYED NOTES**

SCALE

+----

20'

40 '

60 '

| 1 | CRUSHED STONE CONSTRUCTION ENTRANCE AND CONCRETE TRUCK WASHOUT AREA |
|---|---------------------------------------------------------------------|
| 2 | SILT FENCE                                                          |
| 3 | LIMITS OF CONSTRUCTION (1.0 AC)                                     |
| 4 | INLET PROTECTION                                                    |



550 S. Caldwell Street P: 704.981.8951 Suite 1800 P: 704.981.8951 Lic. #: AA - 00035

Suite 1800 Lic. #: AA - 0003590 www.bdgllp.com

FIFTH THIRD

33

DELRAY BEACH



GROUP, LLC

1208 East Kennedy Boulevard
Suite 230
Torre Flight 23603

Suite 230
Tampa, Florida 33602
[p]: 813.434.4770
[f]: 813.445.4211
www.iegroup.net
FL Cert. of Auth. No 27889

IEG JOB NO. 15-386.00

SEAL NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

DATE

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKHAO, PE) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.FAC 61G15-23.004

ISSUE BY DATE DESCRIPTION

DR 05/15/25 ISSUE FOR PERMIT

DR 10/03/25 RAI ROUND 1

PROJECT INFORMATION

 JOB #
 240661

 DATE:
 12/31/24

 DRAWN BY:
 IEG

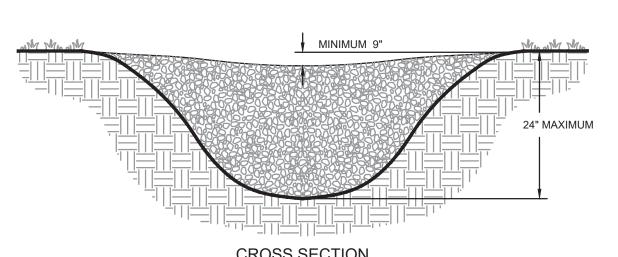
 CHECKED BY:
 SJ

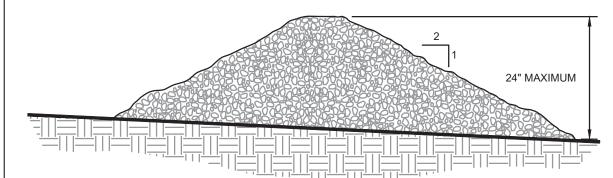
SHEET TITLE

EROSION CONTROL PLAN PHASE II

SHEET NUMBER

C06.03



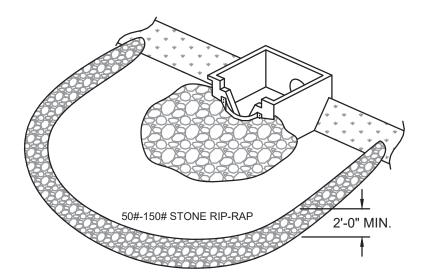


# **PROFILE VIEW**

. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT

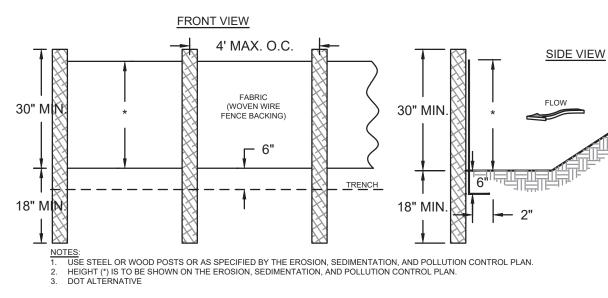
- TO BE USED IN LIVE STREAMS).
  THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES. 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE
- OUTER EDGES. 4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE
- 5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE. 6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

# STONE CHECK DAM

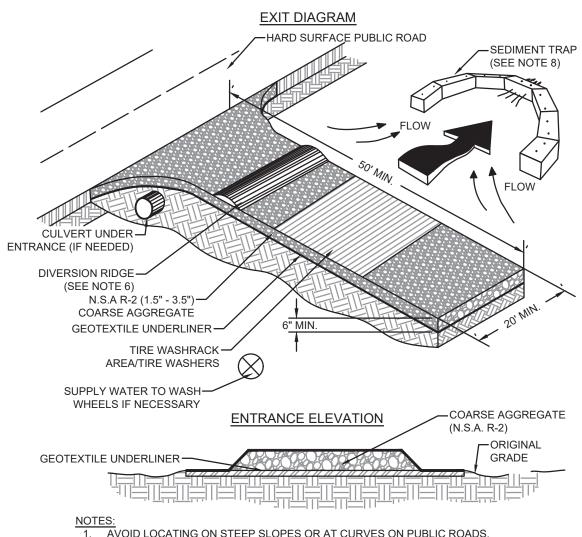


A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS TO REDUCE FLOW VELOCITIES, PREVENT FAILURE OF OTHER SEDIMENT CONTROL DEVICES AND TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING DRAINAGE SYSTEMS.

# STONE FILTER RING



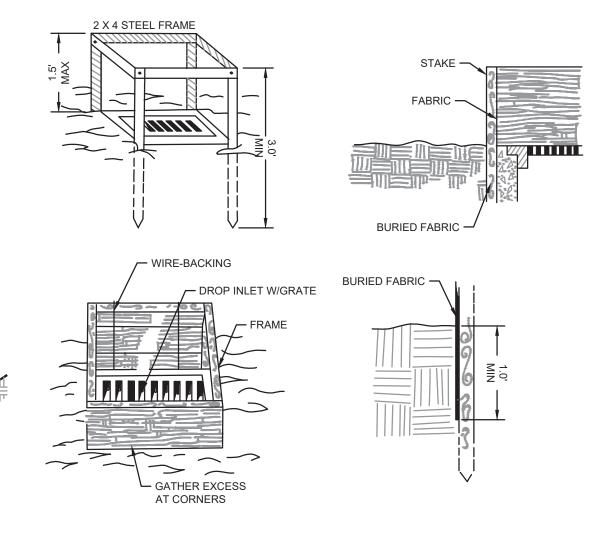
# SILT FENCE - TYPE SENSITIVE



AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE

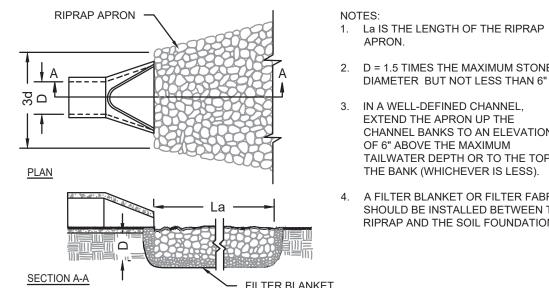
- FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE. 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION
- R-2 (1.5"-3.5" STONE). 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
- 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
- 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
- INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES. 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
- 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
- 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

# CRUSHED STONE CONSTRUCTION EXIT



# INLET SEDIMENT TRAP-FILTER FABRIC

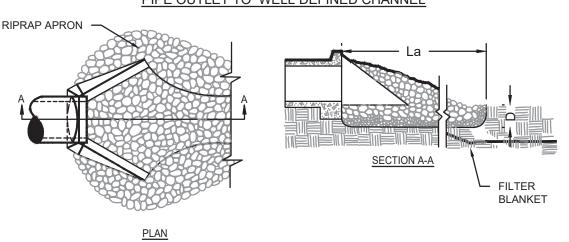
# PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



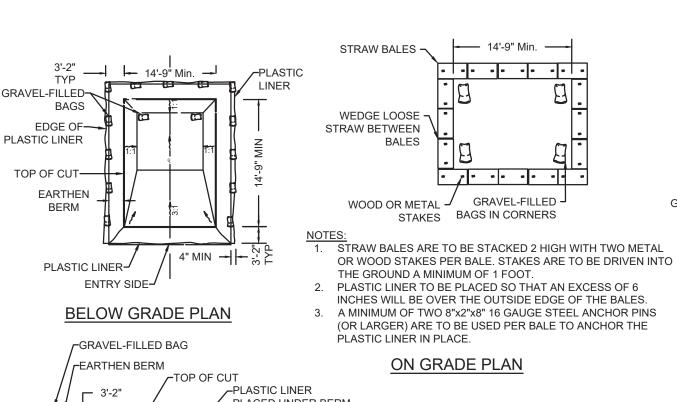
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" IN A WELL-DEFINED CHANNEL. EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).

4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

# PIPE OUTLET TO WELL DEFINED CHANNEL



STORM OUTLET PROTECTION



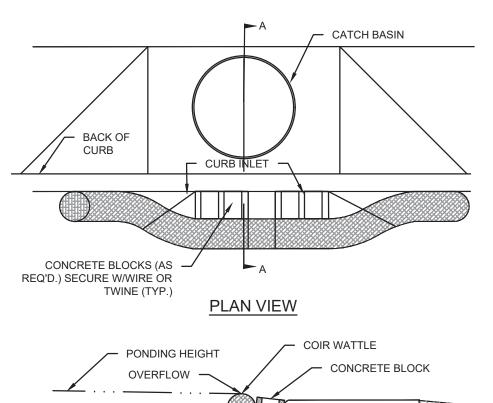
PLACED UNDER BERM (ENTRY SIDE ONLY) ORIGINAL GROUND-PLASTIC LINER-SECTION A-A

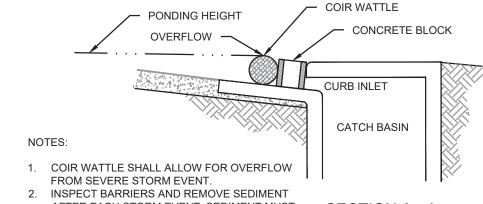
EARTHEN BERM SECTION WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED

-ORIGINAL GROUND

- A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE.UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. 3. A 4'X2' WHITE SIGN WITH 6" BLACK LETTERS STATING "CONCRETE WASHOUT" IS TO
- BE PROVIDED SO DRIVERS ARE AWARE OF THE PRESENCE OF WASHOUT 4. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS,
- OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS.
- 5. THE CONTRACTOR SHALL INSPECT THE WASH DOWN AREA INTERMITTENTLY TO ENSURE PROPER CONTAINMENT IS ACCOMPUSHED.
- 6. IN THE EVENT OF A SPILL OR LEAK THE CONTRACTOR SHALL IMMEDIATELY REPORT & REMEDIATE SAME IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

# TEMPORARY CONCRETE WASHOUT FACILITY

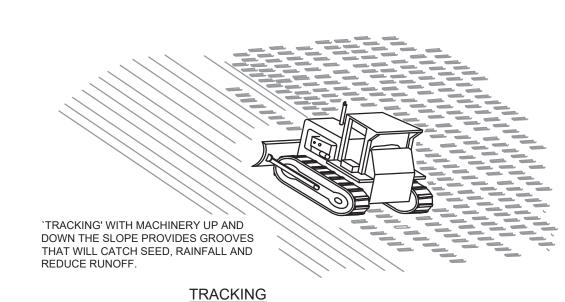




AFTER EACH STORM EVENT. SEDIMENT MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

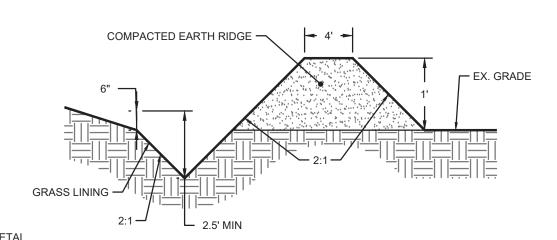
SECTION A - A

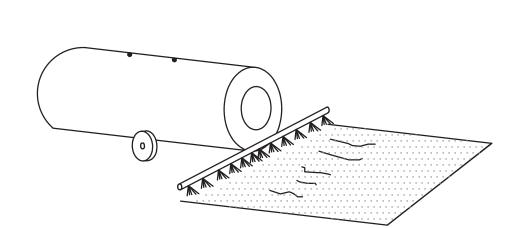
# CURB INLET SEDIMENT BARRIER (COIR WATTLE)



MAXIMUM

GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF. **CONTOUR FURROWS** 





TEMPORARY METHODS
- MULCHES - TEMPORARY VEGETATIVE COVER - SPRAY ON ADHESIVES - TILLAGE - IRRIGATION

PERMANENT VEGETATION TOPSOILING STONE COVER

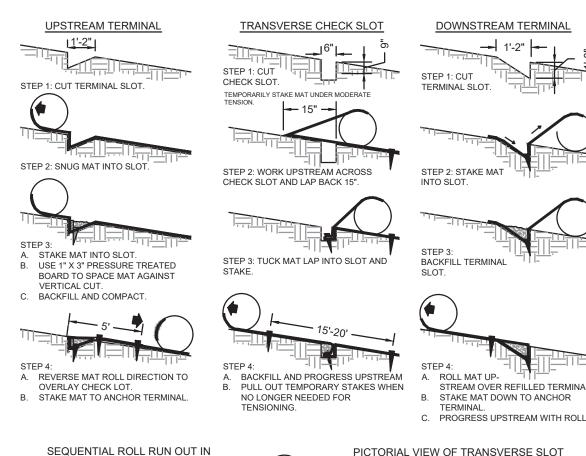
- BARRIERS CALCIUM CHLORIDE

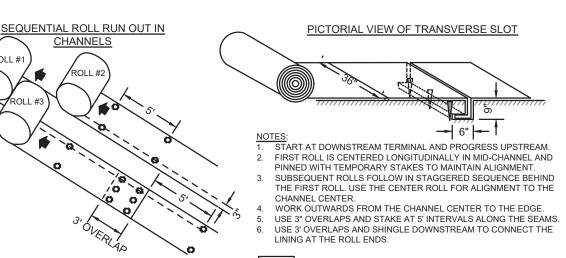
# CHEMICAL CONTROL

| CHEWICAL CONTINUE              |                   |                   |                              |  |  |
|--------------------------------|-------------------|-------------------|------------------------------|--|--|
| ADHESIVE                       | WATER<br>DILUTION | TYPE OF<br>NOZZLE | APPLICATION<br>RATE (GAL/AC) |  |  |
| ANIOIC<br>ASPHALT<br>EMULSION  | 7.1*              | SPRAY             | 1200                         |  |  |
| LATEX<br>EMULSION              | 12 1/2:1*         | FINE<br>SPRAY     | 235                          |  |  |
| RESIN-IN-<br>WATER<br>EMULSION | 4:1*              | FINE<br>SPRAY     | 300                          |  |  |

# \*USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE

# Du DUST CONTROL ON DISTURBED AREAS





RECP- ROLLED EROSION CONTROL PRODUCT EROSION BLANKETS & TURF REINFORCEMENT MATS

**GENERAL NOTES:** 

- 1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- 3. ADDTIONAL PROTECTION ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO
- UNSEEN CONDITIONS OR ACCIDENTS. 4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES. ETC. ARE
- 5. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

# PRE-Construction SITE PROTECTION:

- 8. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
- 9. 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.
- 10. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A | Suite 1800 CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. | Charlotte, NC 28202
- 11. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER OR INLET. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 12. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION. SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

# SITE PROTECTION:

- 13. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 INCHES. BARRIER IS STAKED, THE EXCAVATED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WIRE BACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.
- 14. WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE
- 15. SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREAS AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
- 16. SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES. AROUND INLETS OR ABOVE/
- BELOW WHERE CULVERTS DISCHARGE. 17. SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER

FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF

- VELOCITY AND SHALL BE SECURELY ANCHORED 18. ALL DEVICES INCLUDING SILT FENCE. FILTER BARRIERS. SYNTHETIC BALES AND/OR
- SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS. END RUNS AND UNDERCUTTING BENEATH BARRIERS.
- 19. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY
- 20, 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.

# STORM DRAIN INLET PROTECTION:

- 21. FILTER FABRIC SHALL BE LAID OVER INLETS SO THAT THE FABRIC EXTEND A MINIMUM OF 1 FOOT BEYOND EAST SIDE OF THE INLET STRUCTURE. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- 22. 2 INCH 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- 23. IF STONE FILTERS BECOME CLOGGED WITH SEDIMENT SO THAT THEY NO LONGER ADEQUATELY PERFORM THEIR FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- POST-CONSTRUCTION SITE PROTECTION:
- 24. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED
- 25. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE. NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- 27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

# architects

550 S. Caldwell Street | P: 704.981.8951 Lic. #: AA - 0003590

H H H

www.bdgllp.com

FIFTH THIRD



1208 East Kennedy Boulevard Suite 230 Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211

IEG JOB NO. 15-386.00 NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

www.iegroup.net

FL Cert. of Auth. No 27889

E) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE TED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEA AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHO DATE DESCRIPTION DR | 05/15/25 ISSUE FOR PERMIT /\ | DR | 10/03/25 | **RAI ROUND 1** 

PROJECT INFORMATION

12/31/24

DRAWN BY CHECKED BY:

SHEET TITLE

**EROSION AND** SEDIMENT CONTROL **DETAILS** 

**SHEET NUMBER** 

JOB#