## CIVIL ENGINEERING PLANS

# RIVIERA BEACH POLICE DEPARTMENT

CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FLORIDA
SECTION 29, TOWNSHIP 42, RANGE 43



LEGAL DESCRIPTION

RAPPACIDA RAY PARCE

LOTS 1 TO 18, BLOCK 7, INCLUSIVE, LOTS 39 TO 48, BLOCK 7, INCLUSIVE, LESS THE WEST 12.50 FEET OF LOTS 18 AND 39, THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 4, PAGE 76, AS CORRECTED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT THE NORTHEAST CORNER OF LOT 8, OF SAID BLOCK 7, THENCE ALONG THE EAST LINE OF SAID BLOCK 7 SOUTH 01°13′34" WEST, A DISTANCE OF 210.00 FEET TO THE SOUTH LINE OF SAID BLOCK 7, THENCE ALONG SAID SOUTH LINE NORTH 88°23′29" WEST, 337.50 FEET TO A LINE BEING 12.50 FEET EAST OF AND PARALLEL TO THE WEST LINE OF LOT 39, OF SAID BLOCK 7, NORTH 01°13′34" EAST 210.00 FEET TO THE NORTH LINE OF SAID BLOCK 7, THENCE ALONG SAID NORTH LINE SOUTH 88°23′29" EAST (BEARING REFERENCE) 337.50 FEET TO THE POINT OF BEGINNING, SAID LANDS LYING AND BEING IN THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA AND CONTAINING 70,877 SQUARE FEET MORE OR LESS.

LESS AND EXCEPT THAT PARCEL CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY DEED RECORDED IN OFFICIAL RECORDS BOOK 28366, PAGE 171, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH:
LOTS 1 THROUGH 23, AND LOTS 34 THROUGH 48, BLOCK 8, OF THE 3RD ACREHOME PARK ADDITION TO KELSEY
CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF
PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH: FIRE STATION PARCEL

LOTS 19 TO 23, BLOCK 7, INCLUSIVE, LOTS 34 TO 38, BLOCK 7, INCLUSIVE, AND THE WEST 12.50 FEET OF LOTS 18 AND 39, BLOCK 7, THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 4, PAGE 76, AS CORRECTED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT THE NORTHWEST CORNER OF LOT 23, OF SAID BLOCK 7, THENCE ALONG THE NORTH LINE OF SAID BLOCK 7 SOUTH 88°23'29" EAST (BEARING REFERENCE), A DISTANCE OF 137.50 FEET TO A LINE BEING 12.50 FEET EAST OF AND PARALLEL TO THE WEST LINE OF LOT 18, BLOCK 7, THENCE SOUTH 01°13'34" WEST, 210.00 FEET TO THE SOUTH LINE OF SAID BLOCK 7, THENCE ALONG SAID SOUTH LINE NORTH 88°23'29" WEST, 137.50 FEET TO THE WEST LINE OF LOT 34, BLOCK 7, THENCE ALONG SAID WEST LINE NORTH 01°13'34" EAST, 210.00 FEET TO THE POINT OF BEGINNING, SAID LANDS LYING AND BEING IN THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA AND CONTAINING 28,876 SQUARE FEET MORE OR LESS

CONTAINING 5.416 ACRES, MORE OR LESS.

## SHEET INDEX

C-0	CIVIL COVER SHEET
C-1	CIVIL GENERAL NOTES AND SPECIFICATIONS
C-2	PAVING AND GRADING PLAN
C-3	DRAINAGE PLAN
C-3.1	PAVING GRADING AND DRAINAGE DETAILS
C-3.2	PAVING AND GRADING SECTIONS
C-4	WATER AND SANITARY SEWER PLAN
C-4.1 & C-4.2	WATER AND SANITARY SEWER DETAILS
C-5	PAVEMENT MARKING AND SIGNAGE PLAN
C-6	POLLUTION AND EROSION CONTROL PLAN

SITE DEMOLITION PLAN

Riviera Beach see what's beneath the surface

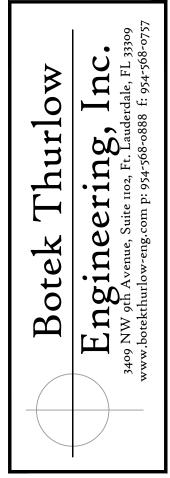
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CONSULTANT



SEAL

		HISTORY
Nº.	DATE	DESCRIPTION
Α	4/4/2025	100% Design Development
В	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
	10/14/2025	90% Construction Documents/Permit Set

PROJECT NAME
RIVIERA BEACH
POLICE
DEPARTMENT

PROJECT LOCATION
2121 AVENUE S
RIVIERA BEACH, FL

PROJECT STATUS
90% CONSTRUCTION
DOCUMENTS/PERMIT

PGAL PROJECT NUMBER
1007657.00
BTE PROJECT NUMBER
24-0504

BTE ISSUE DATE 10-14-2025

CIVIL COVER SHEET

SHEET NUMBER

**C-0** 

GENERAL NOTE 1. THIS CONSTRUCTION PROJECT MAY OR MAY NOT INCLUDE ALL ITEMS COVERED BY THESE NOTES AND SPECIFICATIONS, IE PAVING, GRADING, DRAINAGE LINES, WATER LINES, OR SANITARY SEWER LINES. SEE PLANS FOR DETAILED PROJECT SCOPE. NOTES AND SPECIFICATIONS ON THIS SHEET REFER TO PAVING, GRADING, DRAINAGE, WATER, AND SANITARY SEWER, AND ARE INTENDED FOR THIS PROJECTS SCOPE OF WORK AND FOR REFERENCE PURPOSES FOR OTHER WORK ITEMS THAT MAY BE REQUIRED DUE TO UNFORESEEN EXISTING CONDITIONS OR REQUIRED REMEDIAL WORK.

#### SPECIFIC SITE NOTES

- A. "CITY" IN THESE NOTES REFERS TO THE CITY OF RIVIERA BEACH "COUNTY" IN THESE NOTES REFERS TO PALM BEACH COUNTY "STATE" IN THESE NOTES REFERS TO THE STATE OF FLORIDA SURVEY: PLANS ARE BASED ON THE SURVEY BY COLLIERS ENGINEERING & DESIGN, INC.

  E. DATUM: ALL ELEVATIONS ON THE PLANS ARE REFERENCED TO
- II. APPLICABLE CODES
- A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE. B. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS, AND THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATION BOOKLET, THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATION BOOKLET SHALL GOVERN. IN THE EVENT OF A CONFLICT BETWEEN THESE CONTRACT DOCUMENTS AND THE CITY SPECIFICATIONS, THE CITY SPECIFICATIONS SHALL GOVERN.
- C. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND
- D. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE LAWS OF FLORIDA, AND THE CITY AND COUNTY CODES. E. ALL HANDICAP ACCESSIBLE AREAS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, LATEST F. TRENCH SAFETY ACT:
- 1. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA ACCORDANCE WITH CHAPTER 90—96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT).

  2. ALL TRENCH EXCAVATION IN EXCESS OF 5 FEET IN DEPTH SHALL BE UNDERTAKEN IN ACCORDANCE WITH O.S.H.A. STANDARD 29 CFR. SECTION 1926.650 SUBPART P.

  3. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.

  4. A TRENCH SAFETY SYSTEM, IF REQUIRED, SHALL BE DESIGNED BY THE CONTRACTOR.
- G. ASBESTOS CEMENT PIPE (ACP), AND TRANSIT PIPE, CONTAIN ASBESTOS MATERIAL. ALL ASBESTOS CONTAINING MATERIALS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. THIS INCLUDES THE CUTTING, PLUGGING AND DISPOSAL OF EXISTING ACP OR TRANSITE WATER MAIN PIPES. III. PRECONSTRUCTION RESPONSIBILITIES
- A. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS AND THE ENGINEER OF RECORD. B. THE CONTRACTOR SHALL NOTIFY AND OBTAIN AN UNDERGROUND THE CONTRACTOR SHALL NOTIFY AND OBTAIN AN UNDERGROUND CLEARANCE FROM ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION CLEARANCE NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CLEARANCE SHALL BE FOR ALL UTILITIES INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, WATER, AND SEWER, TRAFFIC LIGHT COMMUNICATION CABLES, ETC. ON BOTH PUBLIC AND PRIVATE PROPERTY IN THE VICINITY OF THE CONSTRUCTION PROJECT, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING UTILITY COMPANIES, WHERE APPLICABLE:

## BELL SOUTH LOCAL GAS COMPANY LOCAL WATER AND SEWER UTILITY COMPANY(S) OCAL CABLE TELEVISION COMPANY(S COUNTY TRAFFIC ENGINEERING DEPARTMENT SPECIAL DISTRICT UTILITY DEPARTMENT COUNTY TRAFFIC ENGINEERING DEPARTMENT FLORIDA DEPARTMENT OF TRANSPORTATION SUNSHINE STATE ONE CALL OF FLORIDA

- FOR STREET EXCAVATION OR CLOSING OR FOR ALTERATION OF ACCESS TO PUBLIC OR PRIVATE PROPERTY: LOCAL FIRE DEPARTMENT DISPATCH
- C. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER AND AROUND EXISTING ELECTRIC LINES. THE CONTRACTOR SHALL CONTACT THE ELECTRIC SUPPLY COMPANY TO VERIFY LOCATIONS, VOLTAGE AND REQUIRED CLEARANCES, ONSITE, IN RIGHT-OF-WAYS AND IN EASEMENTS, PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF EXISTING LINES. D. ALL UTILITY / ACCESS EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION.
- E. LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY (FACILITIES) AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENCINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING FACILITIES, BY ELECTRONIC METHODS, VACUUM EXCAVATION, TEST HOLES AND BY HAND EXCAVATIONS AS REQUIRED, IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. IF AN EXISTING FACILITY IS COMPENSATION SHALL BE ALLOWED. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO DESCRIVE THE CONFLICT.
- PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE, AND
- G. ALL REQUIRED GOVERNMENTAL AGENCY BUILDING PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY ALL ASSOCIATED PERMIT FEES INCLUDING WATER AND SEWER CONNECTION AND METER FEES. H. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE TILITY DEPARTMENT THAT OWNS AND/OR MAINTAINS THE WATER
- I. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND CONDUIT REQUIRED FOR FP&L, BELL SOUTH, IRRIGATION SYSTEM, ETC., PRIOR TO BEGINNING SUBGRADE. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.
- THE OWNER SHALL SUBMIT A CGP "NOTICE OF INTENT (N.O.I.) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND" FORM (DEP FORM 62-621.300(4)(B)) TO FDEP NOTICES CENTER. THE CONTRACTOR WILL BE RESPONSIBLE FOR (1) IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION NOI SUBMITTAL, AND (2) RETENTION OF RECORDS REQUIRED BY THE PERMIT, INCLUDING RETENTION OF A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION FERMINATION (N.O.T.) OF GENERIC PERMIT COVERAGE" FORM (DEF FORM 62-621.300(6)) MUST BE SUBMITTED TO FDEP TO DISCONTINUE PERMIT COVERAGE, SUBSEQUENT TO COMPLETION OF CONSTRUCTION. FOR ADDITIONAL INFORMATION SEE FDEP WEBSITE:
- K. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL ACTIVITIES RELATED TO DEWATERING PERMITS, INCLUDING DESIGN PLANS. IV. INSPECTIONS / TESTING:
- A. THE CONTRACTOR SHALL NOTIFY IN WRITING THE CITY, THE COUNTY, THE ENGINEER OF RECORD, & ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO
- . CLEARING AND EARTHWORK . STORM DRAINAGE SYSTEMS . SANITARY SEWER SYSTEMS WATER DISTRIBUTION SYSTEMS LIMEROCK BASE
  ASPHALT OR CONCRETE PAVEMENT
  SIDEWALKS
- SITE LIGHTING
  ELECTRICAL AND COMMUNICATION LINES
- B. THE OWNER, ENGINEER AND LOCAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS C. TESTING — ALL TESTING REQUIRED BY THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED BY AN INDEPENDENT WITH THREE (3) SETS OF BLUE OR BLACK LINE DRAWINGS. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR. ADDITIONALLY, AN LICENSED TESTING COMPANY. ALL TESTING COSTS (SITE CIVIL)

- SHALL BE PAID FOR BY THE OWNER/OR CONTRACTOR (AS SHALL BE PAID FOR BY THE OWNER/OR CONTRACTOR (AS SPECIFIED IN THE CONSTRUCTION CONTRACT), EXCEPT THOSE TESTS FAILING TO MEET THE SPECIFIED REQUIREMENTS, WHICH ARE TO BE PAID BY THE CONTRACTOR UNLESS OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS. REQUIRED TEST FOR ASPHALT AND LIMEROCK SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE LOCAL GOVERNMENTAL AGENCY.
- V. SHOP DRAWINGS A. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD FOR THE FOLLOWING (IF APPLICABLE): LIFT/ PUMP STATION EQUIPMENT, SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES, PIPE MATERIAL AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO
- VI. TEMPORARY FACILITIES A. GENERAL:
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, COMMUNICATIONS AND ELECTRICITY. B. TRAFFIC REGULATION:
- MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). A MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY BEFORE STARTING WORK IN THE PUBLIC ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- 3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS, UNLESS IN ACCORDANCE WITH METHODS APPROVED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY. 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO THE ADJACENT SITES DURING CONSTRUCTION.
- C. SECURITY FENCE: CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING TO SECURE THE SITE AT ALL TIMES. 2. THE CONTRACTOR'S ONSITE EQUIPMENT, STOCKPILED MATERIAL AND SUPPLIES SHALL BE KEPT IN A SECURE FENCED AND LOCKED LOCATION WHEN CONTRACTOR IS NOT ONSITE. VII. PROJECT PROGRESS AND CLOSEOUT
- A. CLEANING UP: 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN—UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEPT CLEAN. 2 THE CONTRACTOR SHALL RESTORE OR REPLACE WHEN AND A PRIVATE PROPERTY (HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING, ETC.), DAMAGED BY HIS WORK, EQUIPMENT, OF EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- 3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK AND THE AREA KEPT IN A CLEAN
- B. ALL LAND SURVEY PROPERTY MONUMENTS OR PERMANENT REFERENCE MARKERS, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE C. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION. D. PROJECT RECORD DOCUMENTS:
- DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH, MATERIAL AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS. 1. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AT LEAST 48 HOURS BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS—BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FOOT INTERVALS, INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.
- 2. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS. 3. AS-BUILTS OF WATER LINES SHALL INCLUDE THE FOLLOWING
- TOP OF PIPE ELEVATIONS EVERY 100 LF.
  LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, ETC. c. ALL TIE INS TO EXISTING LINES SHALL BE AS-BUILT.
  d. THE TAP AND TERMINAL END AT ALL WATER SERVICES SHALL e. AS BUILT DATA SHALL INCLUDE GPS DATA.
- 4. AS-BUILTS OF ALL GRAVITY SANITARY SEWER LINES SHALL INCLUDE THE FOLLOWING INFORMATION: a. RIMS, INVERTS AND LENGTH OF PIPING BETWEEN STRUCTURES AS WELL AS SLOPES.
  b. THE TAP AND STUB ENDS OF ALL SEWER LATERALS SHALL BE LOCATED AND IF THERE ARE ANY CLEANOUTS INSTALLED ON THE SEWER LATERALS THEN THE INVERT ELEVATION OF THESE CLEANOUTS SHALL BE OBTAINED.
  c. LIFT STATION AS—BUILTS SHALL CONSIST OF TOP OF WET WELL ELEVATION, INVERT ELEVATION OF THE INCOMING LINE, BOTTOM OF THE WET WELL AND AS—BUILTS OF THE COMPOUND AREA. d. AS BUILT DATA SHALL INCLUDE GPS DATA.
- 5. FORCE MAIN AS-BUILTS SHALL BE PREPARED THE SAME AS THE WATER LINE AS-BUILTS. 6. AS-BUILTS OF ALL DRAINAGE LINES SHALL INCLUDE THE FOLLOWING INFORMATION: CASING ELEVATION. TOP AND BOTTOM ELEVATION.

   RIMS, INVERTS AND LENGTH OF PIPING BETWEEN STRUCTURES AND WEIR ELEVATIONS IF APPLICABLE.

   THE SIZE OF THE PIPING SHALL BE VERIFIED BY THE SURVEY CREW AT THE TIME OF AS-BUILT. DRAINAGE WELL STRUCTURE AS-BUILTS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP OF CASING ELEVATION, TOP AND BOTTOM ELEVATIONS OF THE BAFFLE WALLS, RIM ELEVATIONS AND INVERTS OF PIPING. EXFILTRATION TRENCH LENGTH, WIDTH, BOTTOM ELEVATION AND TOP ELEVATION
- 7. ALL ROCK AS-BUILTS FOR PARKING LOT AREAS SHALL CONSIST OF THE FOLLOWING: a. ROCK ELEVATIONS AT ALL HIGH AND LOW POINTS, AND AT ENQUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.

  b. ROCK AS-BUILTS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.

  c. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS SHALL BE SHOWN.

  d. ELEVATIONS AROUND ISLAND AREAS WILL ALSO BE REQUIRED.

  e. WHERE CONCRETE IS TO BE USED AS A FINISHED PRODUCT FOR THE ROADWAY OR PARKING LOT ROCK AS—BUILTS WILL BE REQUIRED AS INDICTED ABOVE AS WELL AS AS—BUILTS ON THE FINISHED CONCRETE AT LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS. f. AS-BUILTS SHALL BE TAKEN ON ALL PAVED AND UNPAVED SWALES, PRIOR TO PLACEMENT OF ASPHALT OR TOPSOIL/SOD, AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.
- 8. LAKE AND CANAL BANK AS-BUILTS SHALL INCLUDE A KEY SHEET OF THE LAKE FOR THE LOCATION OF CROSS SECTIONS. LAKE AND CANAL BANK CROSS SECTIONS SHALL BE PLOTTED AT A MINIMUM OF EVERY 100 LF, UNILESS OTHERWISE SPECIFIED. AS-BUILTS SHALL CONSIST OF THE LOCATION AND ELEVATION OF THE TOP OF BANK, EDGE OF WATER AND THE DEEP CUT LINE, WITH THE DISTANCE BETWEEN EACH SHOWN ON THE DRAWING. 9. RETENTION AREA AS—BUILT ELEVATIONS SHALL BE TAKEN AT THE BOTTOM OF THE RETENTION AREA AND AT THE TOP OF BANK. IF THERE ARE CONTOURS INDICATED ON THE DESIGN PREPARE RECORD DRAWINGS, "AS-BUILTS", ON FULL SIZE, 24" X 36" REPRODUCIBLE MATERIAL. ALL RECORD DRAWING, ENGINEERING DRAWINGS. ONE (1) SET OF REPRODUCIBLE RECORD DRAWINGS, "AS-BUILTS", SHALL BE SUBMITTED ALONG

- VIII. GENERAL A. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT.
- B. IT IS THE INTENT THAT THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) TOGETHER WITH "SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION), AND THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" (CURRENT EDITION) BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WOODLING WITHOUT THE PROPERTY OF TRANSPORTATION AND PERSONNEL, SUCH WOODLING WITHOUT THE PROPERTY OF TRANSPORTATION AND PERSONNEL, SUCH WOODLING WITHOUT THE WOODLING WITHOUT THE PROPERTY OF TRANSPORTATION AND PERSONNEL, SUCH WOODLING WITHOUT THE WOODLING WITH THE WOODLING WITHOUT THE WOODLING WITHOUT THE WOODLING WITH THE ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY; THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" TOGETHER WITH THE "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT. IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.
- C. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF SITE DEVELOPMENT INCLUDING PAVING, GRADING, DRAINAGE, WATER AND SANITARY SEWER AS SHOWN ON THE PLANS, SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCLUDE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK. D. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION
- SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT WHICH HAS JURISDICTION AND RESPONSIBILITY FOR THE CONSTRUCTION. WHERE CONFLICTS OR OMISSIONS EXIST, THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER. E. GUARANTEE - ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT, SHALL BE GUARANTEED FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.
- IX. <u>EARTHWORK</u> A. ALL AREAS TO BE CONSTRUCTED UPON WITH STRUCTURES, ALL AREAS TO BE CONSTRUCTED UPON WITH STRUCTURES, PAVEMENT, CURB, SIDEWALK, FENCING ETC. SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1'. ITEMS DESIGNATED TO REMAIN OR TO BE RELOCATED OR TO BE ADJUSTED SHALL BE PROTECTED FROM THE CONSTRUCTION OPERATION. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). BRIDGE CONSTRUCTION (LATEST EDITION).
- B. NONE OF THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT IS TO BE INCORPORATED IN THE NEW LIMEROCK BASE. THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT MAY BE INCORPORATED INTO THE STABILIZED SUBGRADE , SUBBASE, OR STABILIZED SHOULDER. C. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO N-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE. D. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED
- E. ALL MATERIAL AND CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE TIME HE WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FOLLOW STATE, CITY, AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST OF AN EARLIER PHASE OF WORK, PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE INSPECTION OR TEST OF AN EARLIER PHASE OF WORK, PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
- F. WHEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE CENTER LINE (10) TEN FEET BEYOND THE EDGE OF PAVEMENT EACH SIDE. ALL SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL, COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). G. WHEN ENCOUNTERED WITHIN PROPOSED DRAINAGE SWALES, HARDPAN SHALL BE REMOVED FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS. H. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS
  SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND . GROUND ADJACENT TO ROADWAY/PAVEMENT WHERE STORMWATER RUNOFF FLOWS FROM PAVEMENT TO GROUND, SHALL BE GRADED  $\ensuremath{(2)}$  TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
- J. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THI REQUIRED ELEVATION AND ALL AREAS SHALL BE GRADED TO K. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL, EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL SECTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE
- X. <u>ASPHALT PAVING</u> A. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE. B. ASPHALT PAVING SHALL BE CONSTRUCTED ON A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99-C. THE COMPACTED SUBGRADE SHALL BE CONSTRUCTED TO THE LIMITS OF PAVING SHOWN ON THE PLANS. ALL SUBGRADE SHALL HAVE A MINIMUM LBR OF 40 LIMITES OF THE PROFESSION OF THE PROFESSION OF THE PLANS. ALL SUBGRADE SHALL HAVE A MINIMUM LBR OF 40 LIMITES OF THE PROFESSION OF THE PLANS ALL SUBGRADE SHALL HAVE A MINIMUM LBR OF 40 LIMITES OF THE PROFESSION OF THE PRO
- C. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC SHALL CONSIST OF THE THICKNESS CONCRETE AS SPECIFIED IN THE PLANS. LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE DESIGNATED. ALL LIMEROCK SHALL BE PRIMED. THE ENGINEER SHALL INSPECT THE COMPLETED BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. A TACK COAT WILL ALSO BE REQUIRED IF THE ENGINEER FINDS THAT THE PRIMED BASE HAS BECOME EXCESSIVELY DIRTY OR THE PRIME COAT HAS CURED TO THE EXTENT OF LOSING BOUNDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATES) D. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6"
  LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO
  EQUAL LIFTS OR IN ACCORDANCE WITH THE APPLICABLE SECTION
  OF THE STANDARD SPECIFICATIONS. BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE. H. ALL REPAIRS TO EXISTING PAVEMENT SHALL RECEIVE SAW-CUT EDGES PRIOR TO RELAYING ASPHALT.

I. UTILITY PIPING OR WRING LESS THAN FOUR (4) INCHES IN DIAMETER SHALL BE CONSTRUCTED IN A SCHEDULE 40 PVC CASING PIPE WITH SAND BACKFILLS UNDER PAVED AREAS ONLY.

PARKING AREAS

LONGITUDINAL SLOPE - 0.3%.

UNLESS OTHERWISE INDICATED ON THE GRADING PLAN. THE

MINIMUM SLOPE OF PAVEMENT SECTIONS SHALL BE:

TRANSVERSE SLOPE - 2.0% FOR ROADWAYS & 1.0% FOR

## K. ASPHALT PAVEMENT SECTIONS FOR ROADWAYS & PARKING LOTS SHALL CONFORM WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE FOLLOWING: IF THERE IS A DISCREPANCY BETWEEN THE PLANS. SPECS AND FDOT STANDARDS. THE FDOT STANDARDS SHALL GOVERN.

PAVEMENT BASE COURSE:
SEE PLAN SHEET AND DETAILS FOR LIMEROCK BASE MINIMUM
THICKNESS PAVEMENT SURFACE COURSE:
SEE PLAN SHEET AND DETAILS FOR THICKNESS AND TYPE OF ASPHALTIC CONCRETE PAVEMENT.
IF PLANS OR DETAILS CALL FOR ASPHALT TO BE CONSTRUCTED IN TWO LIFTS, A TACK COAT (0.25 GAL./SQ. YD.) SHALL BE APPLIED BETWEEN PAVING COURSES.
THE FINAL COURSE OF ASPHALT IS NOT BE APPLIED UNTIL ALL LANDSCAPE CONSTRUCTION, STREET LIGHTING CONSTRUCTION AND ALL SITE AND BUILDING CONSTRUCTION REQUIRING HEAVY EQUIPMENT, THAT MAY DAMAGE THE ASPHALT SURFACE, IS COMPLETE.

L. TESTING

- 1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.

  2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.

  3. DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY LIMEROCK BASE IS CONSTRUCTED.

  4. DENSITY TESTS (EVERY 7000 SQ. FT.) OF THE BASE AND SUBGRADE, AND AS—BUILTS ON THE FINISHED LIMEROCK BASE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED.

  5. PROCTOR DENSITIES SHALL BE PERFORMED ON ALL MATERIAL, 5. PROCTOR DENSITIES SHALL BE PERFORMED ON ALL MATERIAL SUBGRADE AND BASE OF ANY SUBSEQUENT CHANGES I
- MAIEMALS.

  6. LIMEROCK BEARING RATIOS, SIEVE ANALYSIS AND DENSITIES REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER XI. CONCRETE CONSTRUCTION A. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH SECTION 522 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND IN ACCORDANCE
- WITH FDOT STANDARD PLANS INDEX NO. 522-001 (LATE EDITION). CONCRETE SIDEWALK SHALL BE 4" THICK AN CONSTRUCTED ON COMPACTED SUBGRADE, WITH 1/2" EXPANSIO JOINTS PLACED AT A MAXIMUM OF 75', CRACK CONTROL JOINT SHALL BE 5' ON CENTER. THE BACK OF SIDEWALK ELEVATION SHALL BE 3" HIGHER THAN THE EDGE OF PAVEMENT, UNLESS OTHERWISE SPECIFIED BY LOCAL CODES, OR SHOWN ON THE DRAWINGS. CONCRETE SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE A MINIMUM OF 6" THICK. B. SIDEWALK CURB RAMPS HALL BE IN ACCORDANCE WITH FDOT
- STANDARD PLANS INDEX NO. 522-002 (LATEST EDITION). C. CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), CONCRETE CURBING SHALL BE IN ACCORDANCE WITH XII. SIGNAGE AND PAVEMENT MARKINGS
- A. THE ROADS AND PARKING AREAS SHALL BE STRIPED IN ACCORDANCE WITH THE PLANS. NO STRIPE SHALL BE LESS THAN THE SPECIFIED WIDTH NOR SHALL IT EXCEED THE SPECIFIED WIDTH BY MORE THAN 1/2 INCH. STRIPING SHALL BE IN ACCORDANCE WITH SECTIONS 710 AND 971 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST B. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN ADEQUATE TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS FOR THE PURPOSE OF PROTECTING THE TRAVELING PUBLIC, HIS WORKMEN AND THE WORK WORK AREA IN GENERAL SUCH TRAFFIC CONTROL SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT PERIOD INCLUDING ANY TEMPORARY SUSPENSIONS OF THE WORK MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITSECTION 102 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD
- AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE STATE OF FLORIDA, MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND C. ALL STRIPING WITHIN THE PUBLIC RIGHT—OF—WAY AND AT DRIVEWAY ACCESS POINTS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE NOTED ON THE PLANS.

## AND COUNTY TRAFFIC ENGINEERING STANDARDS (LATEST EDITION). E. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

## XIII <u>STORM DRAINAGE</u> A. GENERAL:

- 1. CATCH BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS MAY BE ADJUSTED TO CONFORM TO NEW OR EXISTING B. MATERIALS:
- NOTE: WHERE MORE THAN ONE SPECIFIED MATERIAL EXISTS FOR AN ITEM, IT IS THE CONTRACTORS OPTION TO USE EITHER REINFORCED CONCRETE PIPE (R.C.P.) SHALL MEET THE REQUIREMENTS OF ASTM C-76, LATEST REVISION. RUBBER GASKETS OR OTHER MANUFACTURER SUPPLIED JOINT SEALER 2. HIGH DENSITY POLYETHYLENE PIPE (HDPE) SIZES 12"-36", SHALL BE CORRUGATED TYPE, SMOOTH INTERIOR, CONFORMING TO ASTM F405, ASTM F667, AASHTO M252 AND AASHTO M294 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR APPROVED FOLIAL 3. CORRUGATED ALUMINUM PIPE (C.A.P.) IS AN ALUMINUM SPIRAL PIPE FORMED FROM COILED ALUMINUM SHEETS AND SHALL CONFORM TO ASTM B745 AND AASHTO M196, AS MANUFACTURED BY KAISER ALUMINUM, INC., OR APPROVED
- QUAL. THE CORRUGATION PATTERN AND GAUGE SHALL BE A 2 2/3" X 7/16" 2 2/3" X 1/2" 2 2/3" X 1/2" 2 2/3" X 1/2" 3" X 1" 12" TO 21" 24" TO 27"
- THE HIGH DENSITY POLYETHYLENE PIPE JOINTS SHALL BE OF A RUBBER OR NEOPRENE GASKET DESIGN TO SECURE A SOIL TIGHT JOINT. FOR 60" DIAMETER OR LARGER, SPLIT BANDS OF THE SAME ALLOY AS THE PIPE MAY BE ONE GAUGE LIGHTER THAN THE PIPE. POLYURETHANE OR OTHER MANUFACTURER SUPPLIED SEALANT SHALL BE USED WITH THE COUPLINGS.
- SAND/CEMENT WITH A MINIMUM 2000 P.S.I. COMPRESSIVE STRENGTH TO MEET FLORIDA D.O.T. STANDARDS. THE BAGS SHALL BE PERMEABLE BURLAP, CLOTH OR PAPER. A CONCRETE CAP SHALL BE POURED ON TOP OF THE SAND/CEMENT RIF RAP BAGS WITH A MINIMUM 3000 P.S.I. COMPRESSION 7. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AS MANUFACTURED BY U.S. PRECAST CORPORATION OR EQUAL, UNLESS OTHERWISE NOTED IN THE PLANS. THE MINIMUM WALL AND SLAB THICKNESS SHALL BE INCHES AND THE MINIMUM REINFORCING SHALL BE NO. 4 BARS AT 12 INCHES EACH WAY UNLESS OTHERWISE INDICATED.
- 8. TRENCH DRAIN SHALL BE POLYCAST PRE-SLOPED 600 SERIES OR APPROVED EQUAL.
- PIPE SHALL BE PLACED ON A MINIMUM OF 8" STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION AND OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO A UNIFORM 2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL, WELL TAMPED IN LAYERS NOT TO EXCEED 6 INCHES PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING & UTILITIES DEPARTMENT AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION. HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.
- XIV. WATER DISTRIBUTION / SANITARY FORCE MAINS. NOTE: WHERE MORE THAN ONE SPECIFIED MATERIAL EXISTS FOR AN ITEM, IT IS THE CONTRACTORS OPTION TO USE EITHER MATERIAL., WHERE THE PLANS DO NOT CALL FOR A PIPE MATERIAL THE MATERIAL SHALL BE EITHER PVC OR DIP AS SPECIFIED BELOW.

- 1. PVC WATERMAINS 4"-12" SHALL BE PLASTIC PRESSURE PIPE WITH INTEGRAL BELL AND SPIGOT JOINTS FOR THE CONVEYANCE OF WATER AND OTHER FLUIDS. THIS PIPE SHALL MEET ALL THE REQUIREMENTS OF AWWA STANDARD C900, POLYVINYL CHLORIDE (PVC) WATER DISTRIBUTION PIPE. THE BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH A FACTORY INSTALLED ELASTOMERIC GASKET WHICH MEETS THE REQUIREMENT OF ASTM F477. THE JOINT DESIGN SHALL MEET 2. DUCTILE IRON PIPE FOR WATER DISTRIBUTION MAINS SHAL REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS
  OTHERWISE DIRECTED BY THE ENGINEER. DUCTILE IRON PIPE
  SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE
- WITH ANSI/AWWA STANDARD C104/A21.4-95 LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS FOR ALL SIZES. 3. DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51-02 LATEST REVISION DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OF SAND— LINED MOLDS' WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DUCTILE IRON PIPE SHALL BE INTERIOR CERAMIC EPOXY LINED AND EXTERIOR COATED WITH THE MANUFACTURER'S COATING SYSTEM (PROTECTO 401 CERAMIC EPOXY WITH A MINIMUM DRY FILM THICKNESS OF 40 MILS AND AN OUTSIDE COATING OF EITHER COAL TAR EPOXY OR ASPHALT) IN FITHER CASE THE ENGINEER'S REVIEW AND OR ASPHALT.) IN EITHER CASE, THE ENGINEER'S REVIEW AND APPROVAL IS REQUIRED FOR EITHER ALTERNATIVE PRIOR TO CONSTRUCTION. CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.
- 4. DUCTILE IRON FITTINGS FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10-98 LATES AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4-95 LATEST REVISION. 5. CAST IRON AND DUCTILE IRON FITTINGS FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD
  C110/A21.10-98 LATEST REVISION. FITTINGS 4" AND LARGER
  SHALL BE COATED IN ACCORDANCE WITH THE REQUIREMENTS
  OF DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS.
- 6. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11-00 LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION-TYPE. SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE ENGINEER. 7. JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH-ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED. 8. WATER DISTRIBUTION SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW:
- EBBA IRON SERIES 2800 HARNESS TR-FLEX BY U.S. PIPE OR FLEX RING BY AMERICAN PUSH-ON D.I.P. FITTINGS W/ D.I.P. EBBA IRON SERIES 1100 MEGALUG FITTINGS W/ P.V.C. EBBA IRON SERIES 2000 MEGALUG LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL
- 9. SEWAGE FORCE MAIN SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED JOINT PUSH-ON P.V.C. PUSH-ON D.I.P. EBBA IRON SERIES 2800 HARNESS TR-FLEX BY U.S. PIPE OR FLEX RING BY AMERICAN FITTINGS W/ D.I.P. EBBA IRON SERIES 1100 MEGALUG FITTINGS W/ P.V.C. EBBA IRON SERIES 2000 MEGALUG LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL
- 10. WATER DISTRIBUTION VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 P.S.I. AND CONFORMING TO ANSI/AWWA C509-01 OR LATEST REVISION, AND SHALL HAVE MECHANICAL IONITS a. GATE VALVES 2" AND LARGER SHALL BE MUELLEF A-2380-20, AMERICAN 80 LINE OR CLOW F-6100 CONFORMING TO ANSI/AWWA C500-93, OR, IN EITHER CASE, b. TAPPING VALVES SHALL BE MUELLER H667 OR APPROVED
- TAPPING SLEEVES SHALL BE MUELLER H615, CLOW F— 2505 OR APPROVED EQUAL. 12. VALVE BOXES SHALL BE U.S. FOUNDRY 7500 OR APPROVED EQUAL PAINTED BLUE WITH THE DESIGNATION "WATER" C111/A21.11-00 OR LATEST REVISION. ALL GLANDS SHALL BE
  MANUFACTURED FROM DUCTILE IRON AS LISTED BY
  UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER
  PRESSURE RATING. CLOW CORPORATION MODEL F-1058,
  STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR
  APPROVED FOLIA 14. LOCATING WRE SHALL BE INSTALLED 1 FOOT ABOVE INSTALLED PVC PRESSURE PIPE TO ENSURE THAT PIPE CAN BE LOCATED AFTER BURIAL.
- 15. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED. 16. FIRE HYDRANTS SHALL BE MUELLER CENTURION TRAFFIC TYPE A-423 WITH 5 1/4" INTERNAL VALVE OPENING OR APPROVED EQUIVALENT. MAIN VALVE OPENING TO BE DETERMINED BY THE WATER DEPARTMENT. PUMPER NOZZLE TO BE 18" FROM FINISHED GRADE. ALL HYDRANTS TO BE INSTALLED WITH CONTROL VALVE. RETAINER GLANDS ARE PREFERRED FOR RESTRAINING. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502-94. FIRE HYDRANTS SHALL BE PAINTED YELLOW IN ACCORDANCE WITH N.F.P.A. #291 OR PER LOCAL/COUNTY STANDARDS HAVING JURISDICTION. BLUE RAISED REFLECTIVE
- 17. SEWAGE FORCE MAIN VALVES SHALL BE PLUG VALVES WHICH SHALL BE OF THE NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS, PORT AREAS FOR VALVES 20 INCHES AND SMALLER SHALL BE AT LEAST 80% OF FULL PIPE AREA. PORT AREA OF VALVES 24 INCHES AND LARGER SHALL BE AT LEAST 70% OF FULL PIPE AREA. THE BODY SHALL BE OF SEMI-STEFI (ASTM. 4-126 CT B) AND SHALL HAVE BOLTED. LEAST 70% OF FULL PIPE AREA. THE BODY SHALL BE OF SEMI-STEEL (ASTM A-126 C1.B) AND SHALL HAVE BOLTED BONNET WHICH GIVES ACCESS TO THE INTERVALS OF THE VALVE. SEATS SHALL BE WELDED OVERLAY OF HIGH NICKEL CONTENT OR A STAINLESS STEEL PLATE LOCKED IN THE BODY CAVITY. IF A PLATE IS USED, IT SHALL BE REPLACEABLE THROUGH THE BONNET ACCESS. BEARINGS SHALL BE PERMANENTLY LUBRICATED OF STAINLESS STEEL, BRONZE OR TEFLON LINED, FIBER GLASS BACKED DURALON. BEARING AREAS SHALL BE ISOLATED FROM THE FLOW WITH GRIT SEALS. VALVES SHALL HAVE PACKING BONNETS WHERE THE SHAFT PROTRUDES FROM THE VALVE AND THE PACKING SHALL BE SELF-ADJUSTING CHEVRON TYPE WHICH CAN BE REPLACED WITHOUT REMOVING THE BONNET. ALL NUTS, BOLTS, SPRINGS AND WASHERS SHALL BE STAINLESS STEEL. 18. PLUG VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 150 P.S.I. THE VALVE AND ACTUATOR SHALL BE CAPABLE OF SATISFACTORY OPERATION IN EITHER DIRECTION OF FLOW AGAINST PRESSURE DROPS UP TO AND INCLUDING 100 P.S.I. AGAINST PRESSURE DROPS UP TO AND INCLUDING 100 P.S.I.
  (FOR PLUG VALVES OVER 12 INCHES IN DIAMETER). VALVES
  SHALL BE BUBBLE TIGHT IN BOTH DIRECTIONS AT 100 PSI
  DIFFERENTIAL. PLUG VALVES SHALL HAVE WORM GEAR
  OPERATORS. THE OPERATING MECHANISM SHALL BE FOR BURIED
  SERVICE WITH A 2 INCH SQUARE OPERATING NUT.
- 20. SWING CHECK VALVES FOR WATER, SEWAGE, SLUDGE, AND GENERAL SERVICE SHALL BE OF THE OUTSIDE LEVER AND SPRING OR WEIGHT TYPE, IN ACCORDANCE WITH ANSI/AWWA C 508-01 SWING-CHECK VALVES FOR WATERWORKS SERVICE, 2 IN. THROUGH 24 IN. NPS, UNLESS OTHERWISE INDICATED, WITH FULL-OPENING PASSAGES, DESIGNED FOR A WATER-WORKING PRESSURE OF 150 P.S.I. THEY SHALL HAVE A FLANGED COVER PIECE TO PROVIDE ACCESS TO THE DISC.
- 21. COLOR CODING OF PIPING AT DRINKING WATER TREATMENT PLANTS. ALL NEW OR ALTERED, ABOVE GROUND PIPING AT DRINKING WATER TREATMENT PLANTS SHALL BE COLOR CODED AND LABELED AS RECOMMENDED IN SECTION 2.14 OF RECOMMENDED STANDARDS FOR WATER WORKS AS INCORPORATED INTO RULE 62-555.330, F.A.C. IN ADDITION, ALL UNDERGROUND WATER MAIN PIPE THAT IS INSTALLED AT DRINKING WATER TREATMENT PLANTS ON OR AFTER AUGUST 28, 2003, AND THAT IS CONVEYING FINISHED DRINKING WATER SHALL BE COLOR CODED AS REQUIRED UNDER SUBPARAGRAPH THE DE COLOR COLOR COLOR AS REQUIRED INDEX SUBSECTION DOES NOT APPLY TO DRINKING WATER TREATMENT PLANT PIPING INSTALLED OR ALTERED UNDER A CONSTRUCTION PERMIT FOR WHICH THE DEPARTMENT RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28, 2003. B. SERVICE CONNECTION:
- 1. SERVICE SADDLES SHALL BE EPOXY COATED DUCTILE IRON (ASTM AS36) WITH STAINLESS STEEL STRAPS, SADDLES SHALL BE DOUBLE STRAP TYPE. SERVICE LINES SHALL BE POLYETHYLENE (PE 3408), 200 P.S.I RATED, DR9. PIPE JOINTS SHALL BE OF THE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH THREADED ENDS, AS MANUFACTURED BY FORD BALLCORP, CATALOG # 4. CURB STOPS SHALL BE FORD V63-44W-1" & OR APPROVED

- 5. METER STOPS SHALL BE 900 LOCKWING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE FV63—777W—2" WITH ASTM B—62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "0" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY FORD OR APPROVED EQUAL.
- C. INSTALLATION: WHERE RESTRAINED PIPE JOINTS ARE REQUIRED DUE TO FITTINGS, APPURTENANCES, ETC., PIPE MATERIAL SHALL BE D.I.P.. 2. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE
- 3. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-05 LATEST REVISION. 4. ALL WATER MAINS SHALL TYPICALLY BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" COVER FOR DIP.
- 5. DETECTO TAPE SHALL BE LAID 18 INCHES ABOVE ALL WATER LINES. A 14 GAUGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL NONCONDUCTIVE WATER MAINS TO FACILITATE LOCATION. AN EXTRA 4 FEET OF WIRE SHALL BE PROVIDED AT ALL VALVES, BLOW-OFFS, HYDRANTS, ETC. THE WIRE SHALL BITESTED FOR CONTINUITY AT THE PRESSURE TEST.
- 6. PIPE DEFLECTION SHALL NOT EXCEED 50% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER. 7. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED.
- TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST 8 BELOW THE BOTTOM OF THE PIPE. 8. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER", "SEWER", "SERVICE",
  "FIRE" AS APPLICABLE, CAST IN THE COVER. U.S.F. OR
- 9. DETECTO TAPE SHALL BE LAID (18) INCHES BELOW FINAL GRADE ALONG ALL FORCE MAINS. A 14 GAUGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL PVC FORCE MAINS TO D. TESTING:
- 1. BEFORE ANY PHYSICAL CONNECTIONS AND ACCEPTANCE FOR OPERATION TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED. COPIES OF PASSING BACTERIOLOGICAL RESULTS AND PRESSURE TEST RESULTS MUST BE SUBMITTED TO, AND APPROVED BY, THE ENGINEER, UTILITY OWNER, FLORIDA DEPARTMENT OF ENVIROMENTAL PROTECTION, AND HEALTH DEPARTMENT. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 P.S.I. FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600—05 FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION. THE PRESSURE TEST SHALL NOT VARY MORE THAN 5 P.S.I. DURING THE TEST. THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE UTILITY OWNER AND THE ENGINEER OF RECORD.
- 3. SAMPLING POINTS SHALL BE PROVIDED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE PLANS IF BACTERIOLOGICAL SAMPLES ARE CONDUCTED BY THE UTILITY OWNER. THE UTILITY OWNER SHALL BE REIMBURSED BY THE CONTRACTOR. 4. BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH
- AWWA/ANSI C651-05. MAXIMUM DISTANCE BETWEEN SAMPLING
  POINTS SHALL BE AS FOLLOWS:
  TRANSMISSION MAINS: EVERY 1200 FEET
  BRANCH MAINS: EVERY 1000 FEET
  ISOLATED MAINS < 1000 FEET: 2 SAMPLE POINTS
  ISOLATED MAINS > 1000 FEET: 3 SAMPLE POINTS 5. THE ALLOWABLE LEAKAGE DURING THE PRESSURE TEST SHALL THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY Q =  $LD\sqrt{P}$  / 148,000 in which Q equals the quantity of makeup water in Gallons per hour. L equals length of pipe (Linear
- 6. SAMPLES ARE TO COMPLY WITH FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555.340(2) WHICH REQUIRES AT LEAST TWO SAMPLES FOR NEW OR ALTERED TREATMENT OR STORAGE FACILITES AND WATERMAINS TO BE TAKEN IN TWO CONSECUTIVE DAYS (ONE PER DAY) AT EACH OF THE LOCATIONS, SAMPLES ARE TO BE ANALYZED FOR TOTAL RESIDUAL CHLORINE AND FOR THE PRESENCE OF TOTAL COLIFORM. CHAPTER 62–555.340(2) ALSO STATES: IF ANY SAMPLE CONTAINS MORE THAN FOUR MILLIGRAMS PER LITER OF TOTAL CHLORINE, THE SAMPLE SHALL BE CONSIDERED INVALID. BACTERIOLOGICAL TEST RESULTS SHALL BE CONSIDERED UNACCEPTABLE IF THE TESTS WERE COMPLETED MORE THAN 60 DAYS BEFORE THE DEPARTMENT RECEIVED THE RESULTS.

EET), D EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND F

EQUALS THE AVERAGE TEST PRESSURE (POUNDS PER SQUARI

INCH GAUGE). MAXIMUM LENGTH OF TEST PIPE SECTION SHOULD BE 2000 FEET. REPUMPING OF LINE DURING PRESSURE TEST IS

#### XV. GRAVITY SEWER COLLECTION SYSTEM A. GENERAL:

- NOTE: WHERE MORE THAN ONE SPECIFIED MATERIAL EXISTS FOR AN ITEM, IT IS THE CONTRACTORS OPTION TO USE EITHER
- ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 35, WITH PUSH-ON RUBBER GASKET JOINTS. 2. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA C151/A21.51-02 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS WITH WALL THICKNESS CLASS 50 FOR 8" AND ABOVE, CLASS 52 FOR 4" AND 6", UNLESS OTHERWISE DIRECTED BY THI ENGINEER. DUCTILE IRON PIPE SHALL BE EPOXY LINED OF COATED WITH THE MANUFACTURER'S COATING SYSTEM AS APPROVED BY THE ENGINEER OF RECORD AND THE CITY ENGINEER. IN EITHER CASE, THE ENGINEER'S REVIEW AND APPROVAL IS REQUIRED FOR EITHER ALTERNATIVE PRIOR TO CONSTRUCTION. CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.
- STANDARD C110/A21.10-98 LATEST REVISION. ALL FITTINGS AND ACCESSORIES SHALL BE EPOXY LINED AND AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR
- P.S.I. CONCRETE, 8" MINIMUM WALL THICKNESS AND GRADE 60 STEEL. MONOLITHICALLY POURED BASES ONLY (8" MIN. 5. MANHOLES ARE TO BE SEALED WITH TYPE II SULPHATE RESISTANT CEMENT OR APPROVED EQUAL — NO MOLDING PLASTER.
- 6. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11-00
  LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO
  BE RUBBER GSKET COMPRESSION- TYPE. SPECIAL FITTINGS
  AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION
  SUBJECT TO THE APPROVAL OF THE ENGINEER. P.V.C. CLEAN-OUTS TO HAVE SCREW TYPE ACCESS PLUG. LONG RADIUS WYE CONNECTIONS AND FITTINGS SHALL BE USED IN ORDER TO ACCESS CLEAN-OUT OPERATIONS.
- 8. CLEANOUTS SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 75' IN LENGTH (EVERY 75') WITH A CLEANOUT AT BUILDING CLEANOUT AND

  ELEVATION OF THE END OF THE SEWER SERVICE WITH THE
  BUILDING PLUMBING CONTRACTOR. CLEANOUTS SHALL BE THE
  SAME SIZE AS THE SERVICE LATERAL IN WHICH THEY ARE
  INSTALLED. 9. CLEANOUTS LOCATED IN ROADWAY ARE TO BE TRAFFIC RATED.
- 1. PVC SEWER PIPE SHALL BE LAID IN ACCORDANCE WITH ASTM D "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C-600-99 OR LATEST REVISION.
- 3. PIPE TO MANHOLE CONNECTION TO BE FERNCO NEOPRENE BOOT COUPLINGS WITH STAINLESS STEEL ACCESSORIES OR MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.
- 5. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT. 6. TWO COATS OF KOPPERS 300-M, FIRST RED, SECOND ONE BLACK, SHALL BE APPLIED TO THE INSIDE OF ALL MANHOLES AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (16 MILS PER COAT). ONE COAT OF BLACK KOPPERS 300-M SHALL BE APPLIED TO THE OUTSIDE OF THE MANHOLE. THE INTERIOR COATS SHALL BE APPLIED AFTER SEWER LAMPING OF LINES. AFTER THE APPLICATION OF EACH COAT, THE UTILITY OWNER AND SHALL

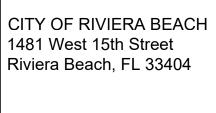
- INSPECT THE MANHOLES. THE INSPECTION SHALL B SCHEDULED A MINIMUM OF 48 HOURS PRIOR TO INSPECTION.
- 1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART

- 5. TESTING OF GRAVITY SEWER MAINS AND LATERALS SHALL BE IN ACCORDANCE WITH THE UTILITY OWNER'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS LATEST REVISION.
- 6. THE INSTALLED SEWERS SHALL UNDERGO TELEVISION INSPECTION AT (2) TIMES. THE FIRST SHALL BE PRIOR TO THE FINAL ACCEPTANCE BY THE UTILITY OWNER AND THE OTHER SHALL BE JUST PRIOR TO THE RELEASE OF THE ONE—YEAR MANUFENANCE DOWN
- DISTANCE, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SEWER LINES SHALL BE CONSTRUCTED OF PVC—SDR—26. SUFFICIENT LENGTHS OF DIP AND PVC—SDR—26 MUST BE TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 12 INCHES MUST BE MAINTAINED AT ALL CROSSINGS. ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). WHERE A NEW CROSSING (PIPES CENTERED ON THE CROSSING). WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A WINIMUM VERTICAL DISTANCE OF 12 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OF FORCE MAIN (STACGERED JOINTS) THE SEWER OR FORCE MAIN (STAGGERED JOINTS). C. ALL DIP SHALL BE CLASS 51 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.

- PROVIDE A MINIMUM (6) INCH BED OF 3/4" WASHED ROCK FOR ALL SUB-AQUEOUS GRAVITY SEWER PIPES.
- AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER. 3. MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.
- 4. THE ALLOWABLE LIMITS OF SEWER PIPE LEAKAGE FOR GRAVITY SEWER MAINS SHALL NOT EXCEED 100 GALLONS PER INCH OF INSIDE PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED AND LINES MAY BE T.V. INSPECTED AT NO EXPENSE TO THE CONTRACTOR.
- XVI. SEPARATION OF WATER AND SEWER MAINS A. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE. WHERE SANITARY SEWERS, STORM SEWERS, OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SEWER LINES SHALL BE
- B. A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A TO FOUT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

TO MEET THE REQUIREMENTS ABOVE

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SEAL

**DRAWING HISTORY** 4/4/2025 100% Design Development B 7/22/2025 50% Construction D 9/18/2025 90% Construction 10/14/2025 90% Construction Documents/Permit Se

**PROJECT NAME** RIVIERA BEACH

**2121 AVENUE S** RIVIERA BEACH, FI **PROJECT STATUS** 

90% CONSTRUCTION

DOCUMENTS/PERMIT

PROJECT LOCATION

**PGAL PROJECT NUMBER** 1007657.00 BTE PROJECT NUMBER 24-0504

SHEET TITLE

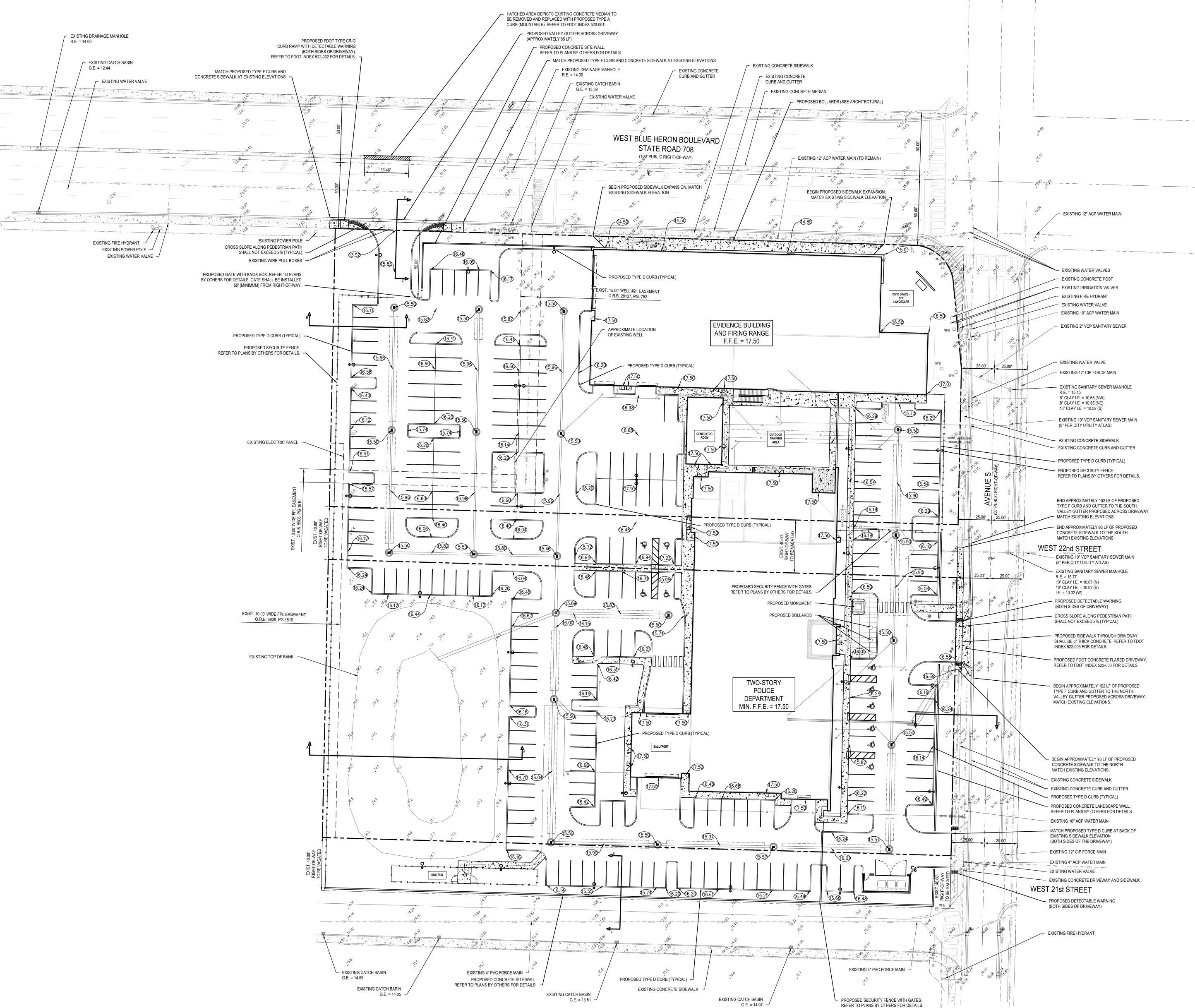
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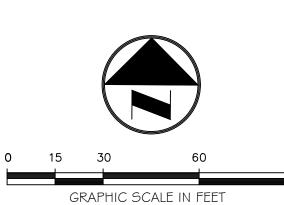
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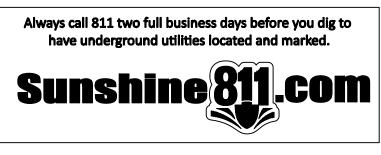
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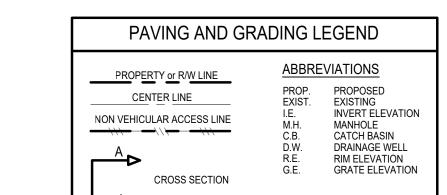
CIVIL GENERAL NOTES AND **SPECIFICATIONS** 

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#### **GENERAL PAVING AND GRADING NOTES:**

1. CONTRACTOR TO RESTORE ALL EXISTING PAVEMENT, PAVEMENT MARKINGS, SIDEWALK, LANDSCAPING, IRRIGATION, ETC. DAMAGED DURING CONSTRUCTION INCLUDING ANY DAMAGE TO EXISTING ROADWAY IN PUBLIC R.O.W.

- 2. EXISTING GRADES SHOWN  $+ \chi \cdot^{\chi \wedge}$  ARE FOR REFERENCE ONLY. FINISHED GRADES INDICATED BY (X.XX) GOVERN.
- 3. ALL ELEVATIONS SHOWN HEREON REFER TO NAVD 1988 UNLESS NOTED OTHERWISE.
- 4. CROSSWALKS AND HC RAMPS TO CONFORM TO ADA W/ DETECTABLE WARNING SURFACE.
- 5. EXACT LOCATION OF METERS AND BFPs TO BE COORDINATED IN THE FIELD.
- 6. REFER TO PAVING, GRADING, AND DRAINAGE DETAILS AND SECTIONS FOR ADDITIONAL
- 7. RESTORE ANY PAVEMENT MARKINGS AFFECTED BY THE INSTALLATION OF THE TYPE 'F' CURB AND GUTTER PER PALM BEACH COUNTY MINIMUM STANDARDS.
- 8. ALL ADA MATS / DETECATBLE WARNINGS ARE TO BE CAST-IN-PLACE.
- 9. UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS, ANY MILLING AND RESURFACING REQUIRED BY THIS PROJECT SHALL BE A MINIMUM OF 1" DEPTH.

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CITY OF RIVIERA BEACH

1481 West 15th Street

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Riviera Beach, FL 33404

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Botek Thurlow  Engineering, Inc. 3409 NW 9th Avenue, Suite 1102, Ft. Lauderdale, FL 33309  www.botekthurlow-eng.com p: 954-568-0888 f: 954-568-0757
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SEAL

**DRAWING HISTORY** A 4/4/2025 100% Design B 7/22/2025 50% Construction D 9/18/2025 90% Construction 10/14/2025 90% Construction Documents/Permit Set

PROJECT NAME RIVIERA BEACH POLICE DEPARTMENT

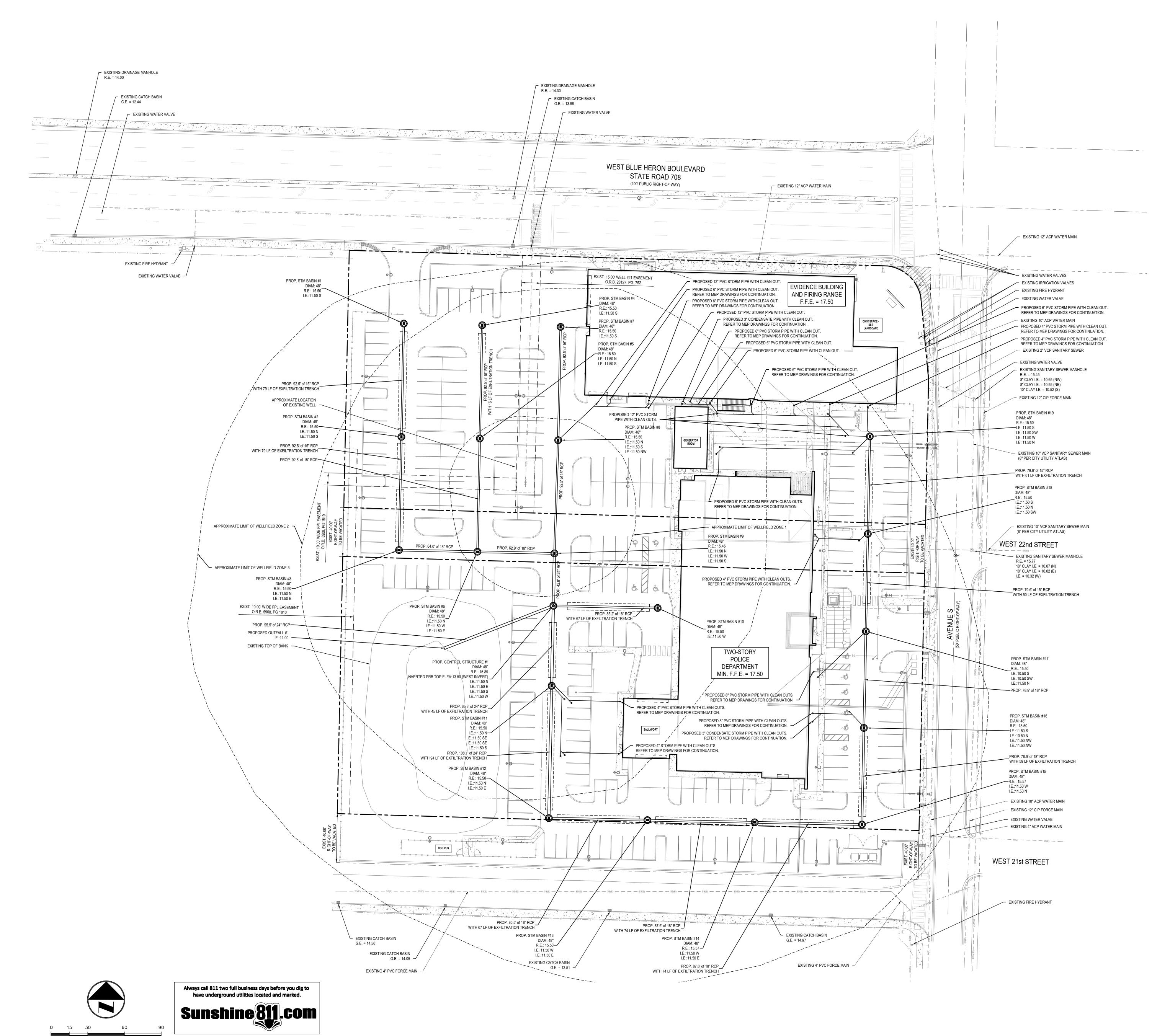
PROJECT LOCATION 2121 AVENUE S RIVIERA BEACH, FL 33404

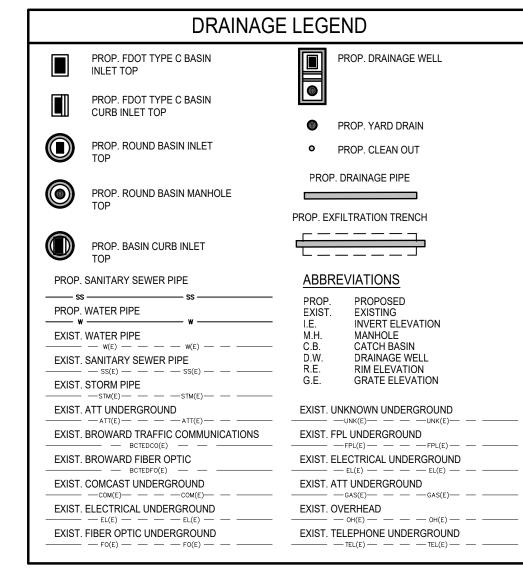
**PROJECT STATUS** 90% CONSTRUCTION DOCUMENTS/PERMIT

PGAL PROJECT NUMBER 1007657.00 BTE PROJECT NUMBER 24-0504

BTE ISSUE DATE 10-14-2025

SHEET TITLE PAVING AND **GRADING PLAN** 





- 1. ALL ROOF DRAINS TO BE CONNECTED TO THE NEAREST STORM DRAINAGE STRUCTURE.
- . UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL EXISTING DRAINAGE WITHIN THE RIGHT OF WAY THAT HAS BEEN AFFECTED BY THE CONSTRUCTION.
- 3. DURING CONSTRUCTION ACTIVITIES INLET PROTECTION SHALL BE PROVIDED FOR ALL DRAINAGE INLETS
- APPROVALS AND OR PERMITS. 5. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE

4. SHOULD DEWATERING BE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED AGENCY

CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

## **GENERAL DRAINAGE NOTES:**

- ADJACENT TO THE PROJECT SITE. REFER TO POLLUTION/EROSION CONTROL PLAN.
- EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION
- 6. ALL ELEVATIONS SHOWN HEREON REFER TO NAVD 1988 UNLESS NOTED OTHERWISE.

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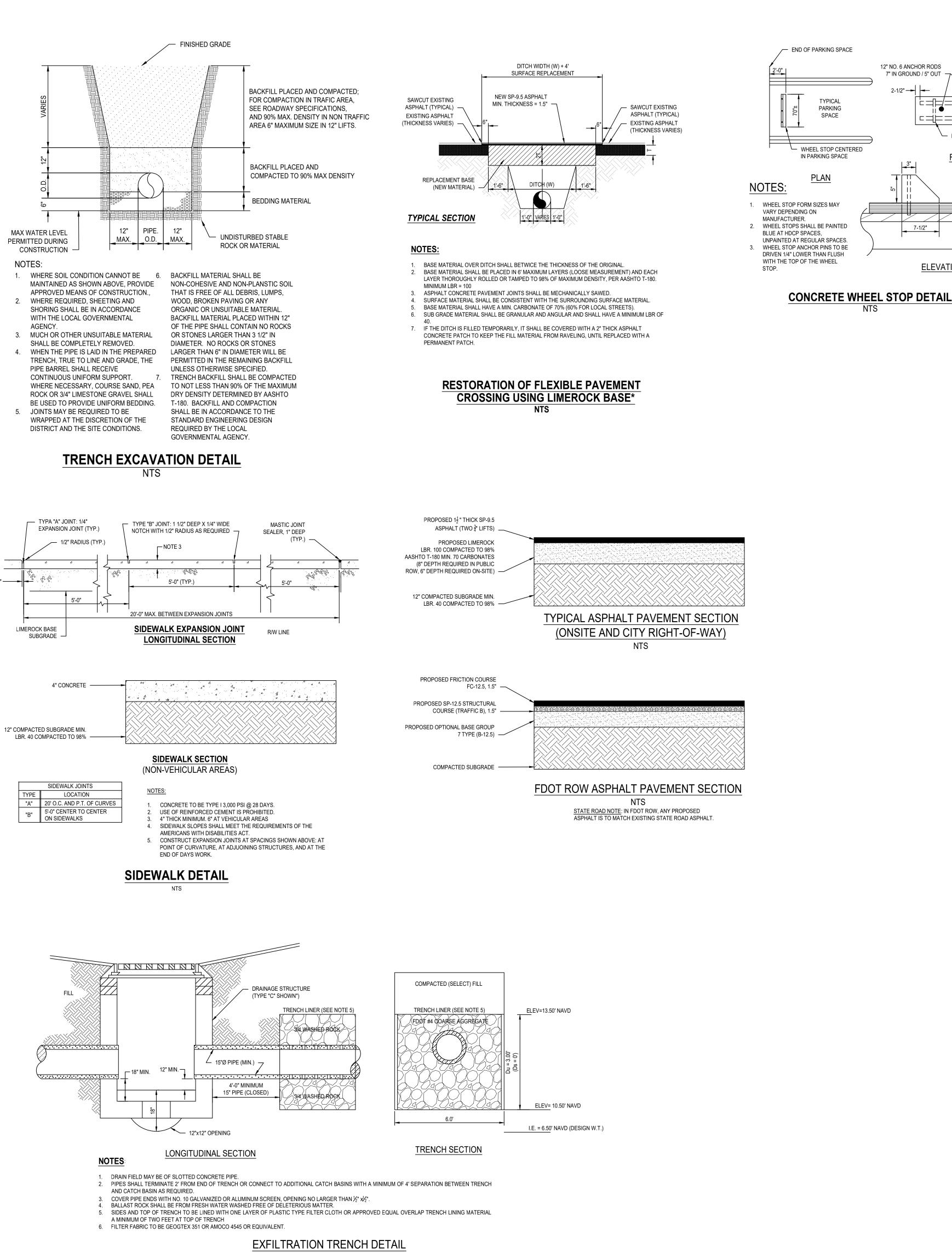
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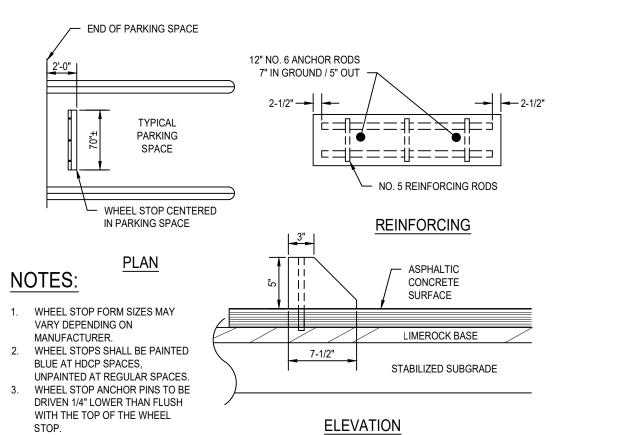
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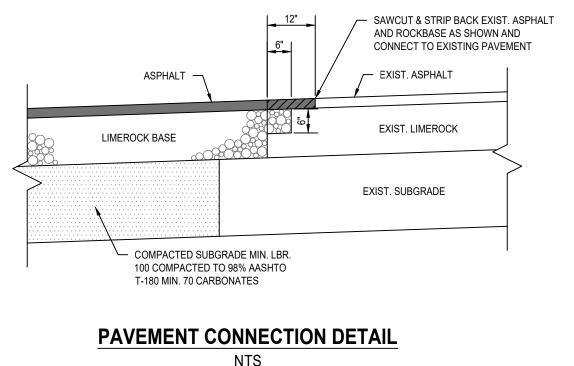
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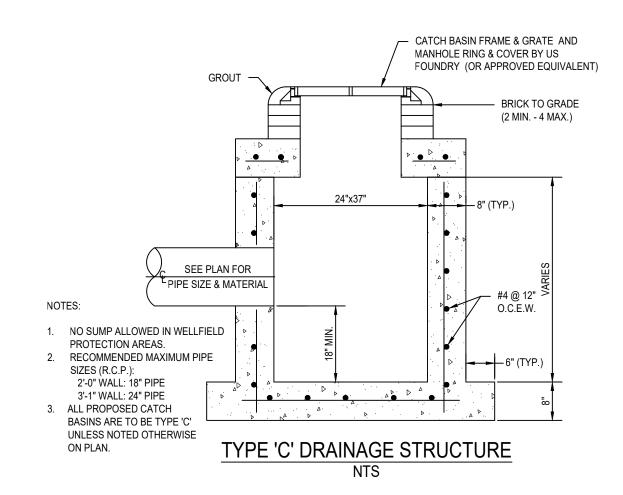
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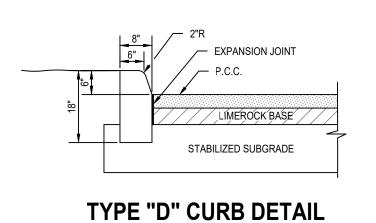
DRAINAGE PLAN











G.E. = 15.89

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CONTROL STRUCTURE #1

INVERTED PRB ELEV=13.50

NOTES:

SEE DETAIL THIS SHEET -

1. NO SUMP ALLOWED IN WELLFIELD

2. RECOMMENDED MAXIMUM PIPE

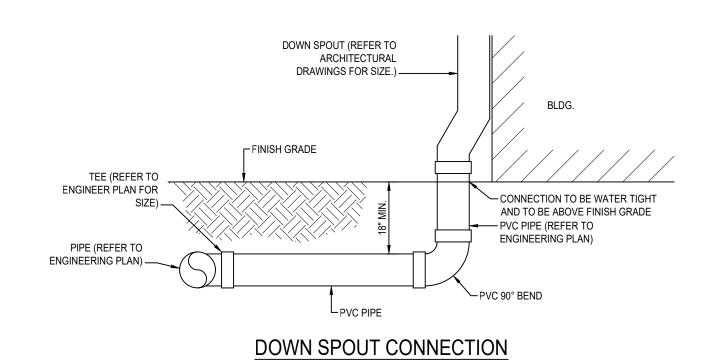
PROTECTION AREAS.

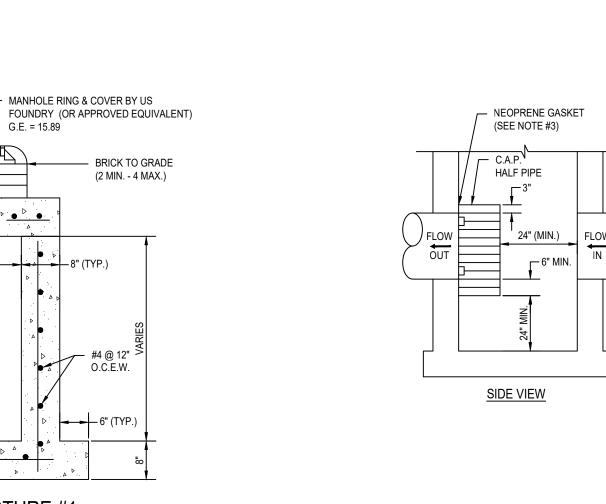
2'-0" WALL: 18" PIPE

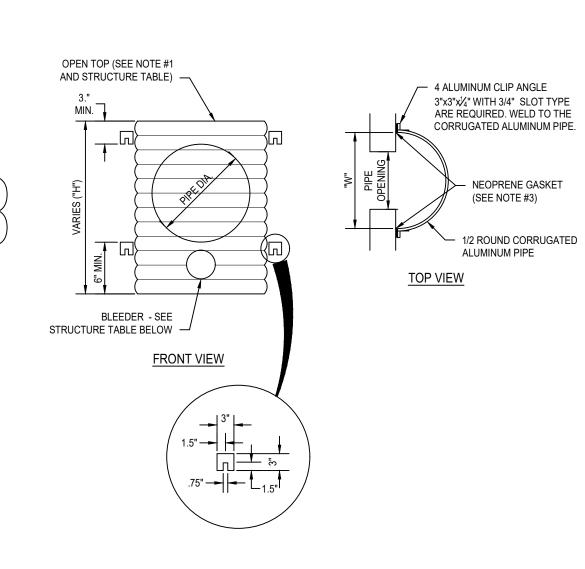
3'-1" WALL: 24" PIPE

SIZES (R.C.P.):

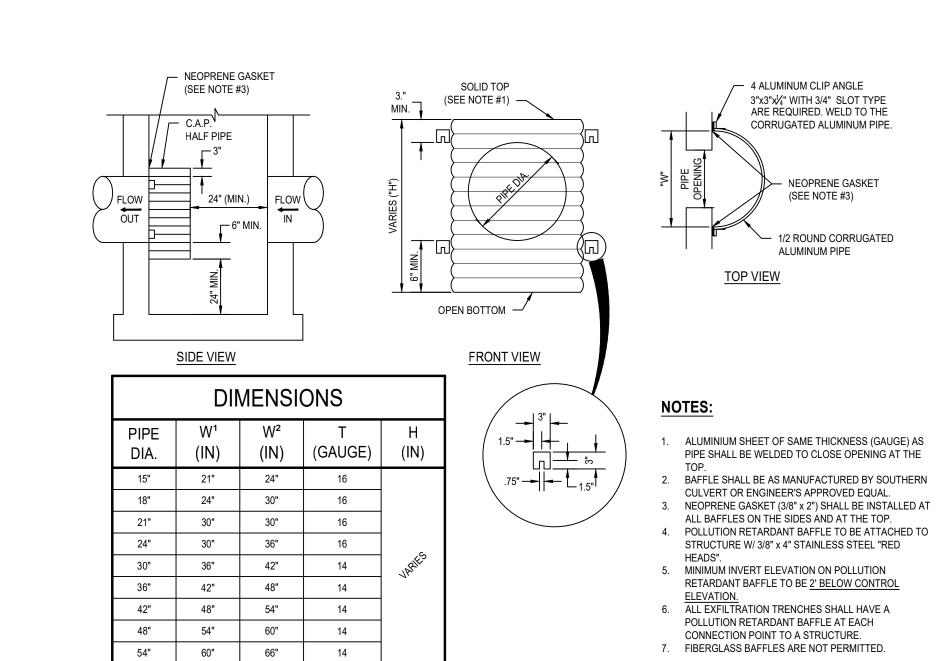
PIPE SIZE & MATERIAL —







INVERTED POLLUTION RETARDANT BAFFLE



**POLLUTION RETARDANT BAFFLE** 

<sup>1</sup> RECTANGULAR STRUCTURE <sup>2</sup> ROUND STRUCTURE



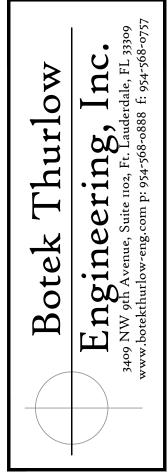
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Nº.	DATE	DESCRIPTION	
Α	4/4/2025	100% Design Development	
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PROJECT LOCATION 2121 AVENUE S RIVIERA BEACH, FL 33404

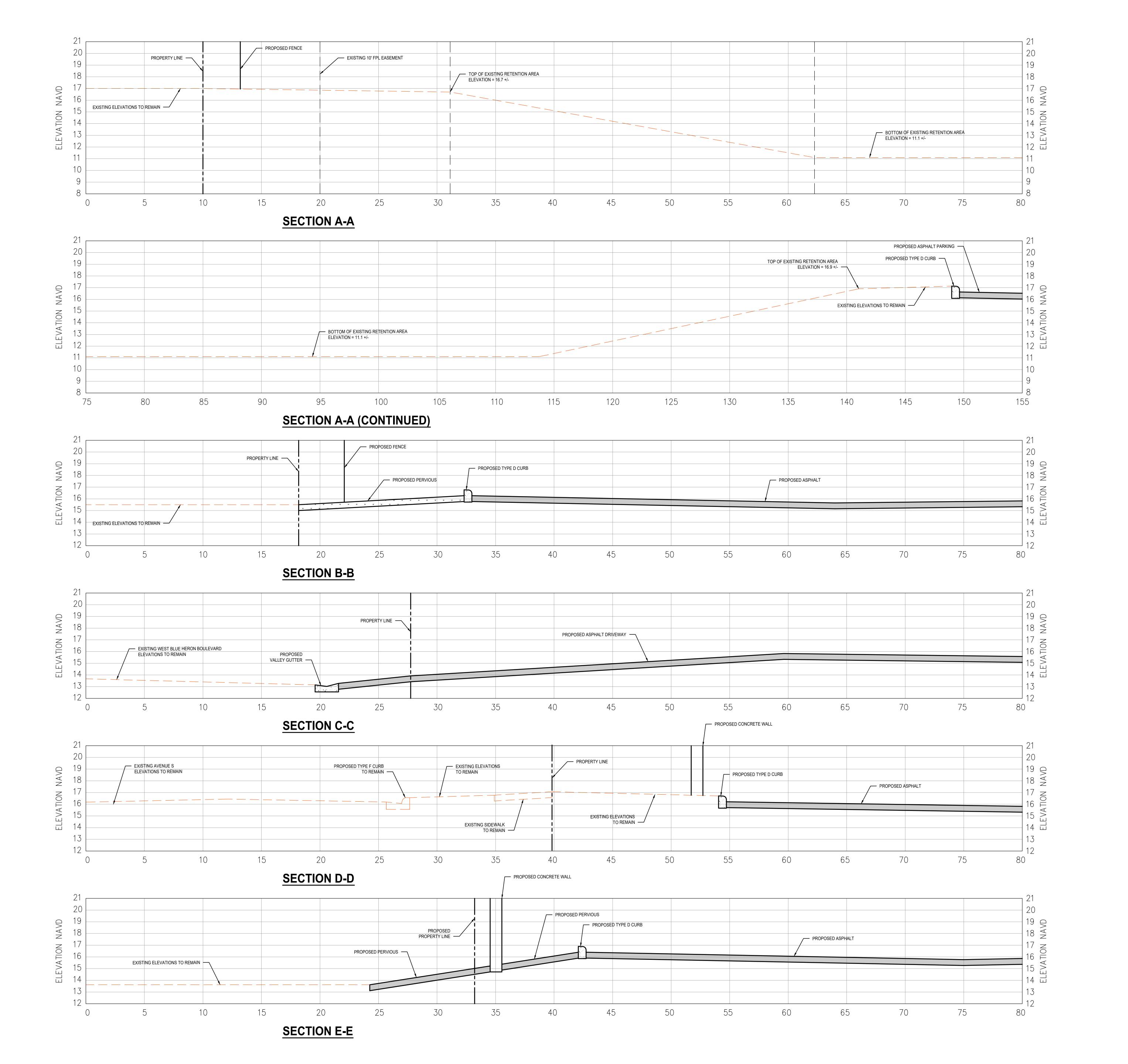
PROJECT STATUS 90% CONSTRUCTION DOCUMENTS/PERMIT

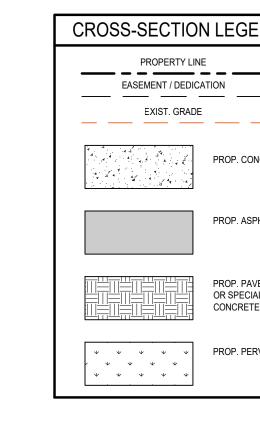
**PGAL PROJECT NUMBER** 1007657.00 BTE PROJECT NUMBER 24-0504

BTE ISSUE DATE 10-14-2025

SHEET TITLE

PAVING GRADING AND DRAINAGE **DETAILS** 





CROSS-SECTION LEGEND EASEMENT / DEDICATION EXIST. GRADE PROP. CONCRETE PROP. ASPHALT PROP. PAVERS OR SPECIALTY CONCRETE PROP. PERVIOUS

see what's beneath the surface CITY OF RIVIERA BEACH

CLIENT

1481 West 15th Street Riviera Beach, FL 33404

ARCHITECT



PGAL, Inc. 791 Park of Commerce Blvd. Suite 400 Boca Raton, FL 33487 T 561 988 4002 www.pgal.com

CONSULTANT

Thurlow ering, Inc Botek

SEAL

**DRAWING HISTORY**  
 №
 DATE
 DESCRIF

 A
 4/4/2025
 100%
 Design
 B 7/22/2025 50% Construction D 9/18/2025 90% Construction Documents 10/14/2025 90% Construction Documents/Permit Set

PROJECT NAME RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION 2121 AVENUE S RIVIERA BEACH, FL 33404

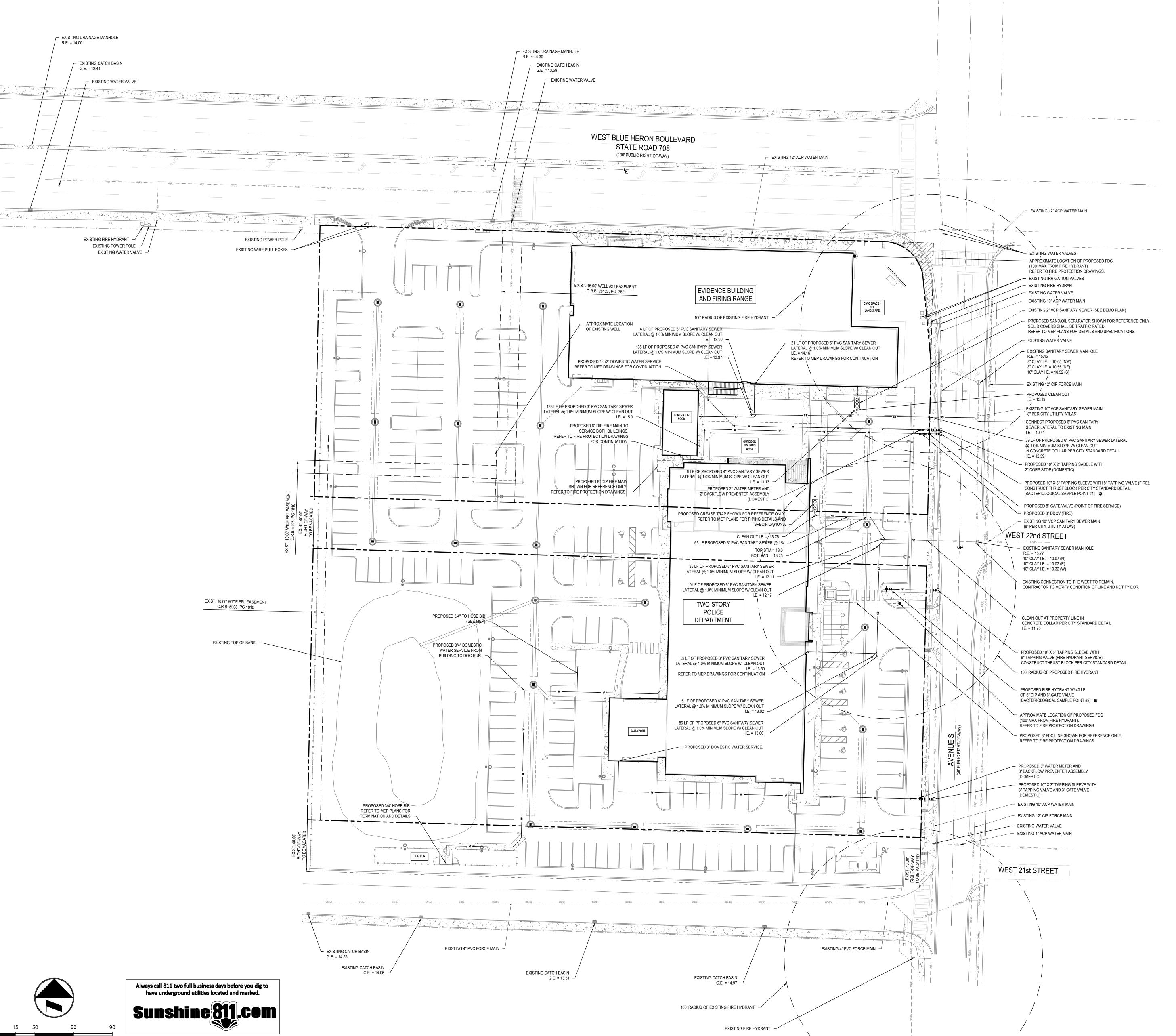
PROJECT STATUS 90% CONSTRUCTION DOCUMENTS/PERMIT

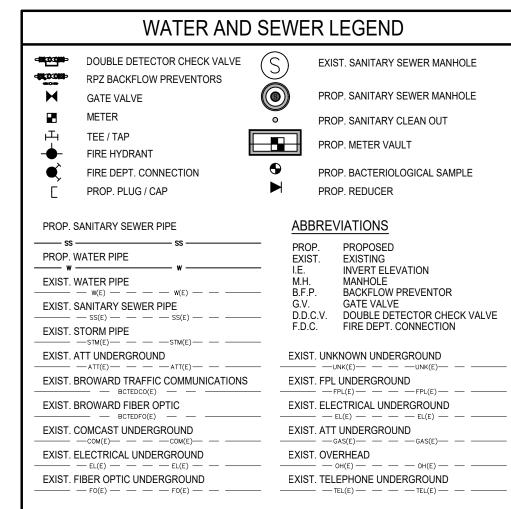
PGAL PROJECT NUMBER 1007657.00 BTE PROJECT NUMBER 24-0504

BTE ISSUE DATE 10-14-2025

SHEET TITLE PAVING AND GRADING

SECTIONS





ACTUAL SIZE; FOR ACTUAL DIMENSIONS REFER TO MANUFACTURER'S SPECIFICATIONS.

**UNDERGROUND UTILITIES NOTES:** 

SITE MAY CONTAIN EXISTING UTILITIES (DOMESTIC WATER, IRRIGATION, TELEPHONE, ELECTRIC, GAS, STORM DRAINAGE, SANITARY SEWER AND OTHERS). **NOT ALL** EXISTING UTILITIES ARE SHOWN HEREON. SOME ARE SHOWN ON THIS PLAN AS OBTAINED FROM TILITY LOCATES, ATLASES AND THE SURVEY.

SANITARY SEWER ONLY, NO DESIGN OF FPL, COMCAST, GAS, TELEPHONE IS SHOWN HEREON. 4. CONTRACTOR IS RESPONSIBLE FOR SEQUENCING ALL UTILITY REMOVAL/RELOCATION SUCH THAT NO OTHER USER OF SAID IS AFFECTED.

STATE LICENSED FIRE LINE CONTRACTOR PER FLORIDA STATUTE 633. 2. ALL FIRE LINES ARE TO BE INSPECTED BY CERTIFIED FIRE LINE INSPECTORS PRIOR TO BEING PLACED INTO 3. UPON COMPLETION OF REQUIRED TESTING A STATE LICENSED FIRE LINE CONTRACTOR SHALL ISSUE A "LICENSED UNDERGROUND TEST CERTIFICATE". THE CERTIFICATE MUST BE ISSUED AND THE FIRE LINE MUST BE ACCEPTED BY THE PALM BEACH COUNTY HEALTH DEPT. (WHERE APPLICABLE) PRIOR TO BEING PLACED INTO SERVICE.

4. FIRE LINE SYSTEM COMPONENTS (FDC, DDCV, FIRE LINE PIPING, ETC.) SHOWN ON THESE PLANS ARE TO BE COORDINATED WITH THE FIRE PROTECTION DRAWINGS AND DESIGN AND FIRE PROTECTION SHOP DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO INSTALLATION OF ANY PORTION OF THE FIRE PROTECTION SYSTEM.

#### NO GATE VALVES IN CURBS.

WATER SHALL BE AVAILABLE TO FIRE HYDRANTS BEFORE INTERIOR BUILDING CONSTRUCTION CAN BEGIN. ALL EXISTING WATER SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITY'S MINIMUM STANDARDS. AFTER WATER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF RIVIERA BEACH MINIMUM STANDARDS

6. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS,

#### SANITARY SEWER NOTES

SLOPE OR PITCH SANITARY SEWER MANHOLE CASTINGS WITH DESIGN ROAD SECTIONS. ALL SANITARY SEWER CLEANOUTS LOCATED IN ROADWAY ARE TO BE TRAFFIC-RATED.

4. AFTER SEWER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF RIVIERA BEACH MINIMUM STANDARDS. 5. MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS ARE TO BE SEALED WITH NON-SHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL

CONNECTION OR ANOTHER WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL. WATERTIGHT MANHOLE COVERS SHALL BE USED [RSWF 34.6]

9. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM. 10. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION

## SEWER TESTING NOTES

DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM) a.NO PIPE SHALL EXCEED A DEFLECTION OF 5% b.A RIGID BALL OR MANDREL IS TO BE USED FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH

IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED c. THE TEST IS TO BE PERFORMED WITHOUT A MECHANICAL PULLING DEVICE [RSWF 33.85] LEAKAGE TEST:

DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM b.EXFILTRATION OR INFILTRATION TESTS TO BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET c. AIR TESTS, AS A MINIMUM, ARE TO CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. [RSWF 33.93, 33.94, AND 33.95]

SYMBOLS FOR FITTINGS, VALVES, ETC. ARE DIAGRAMMATIC ONLY AND DO NOT REFLECT

**CONSULTANT** 

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**ARCHITECT** 

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Riviera Beach, FL 33404

3. ALL EXISTING UTILITIES WITHIN THE BOUNDARY OF THE SITE ARE TO BE REMOVED - EXCEPT WHERE NOTED OTHERWISE (SUCH AS "TO REMAIN" TO BE RELOCATED" ETC.). THIS PLAN IS LIMITED TO WATER AND

ALL PROPOSED FIRE MAINS, SERVICES, "SIAMESE" CONNECTION LINES ETC. MUST BE INSTALLED BY A

**WATER NOTES** 

5. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM.

AND NOTIFY E.O.R. OF ANY CONFLICTS.

ALL EXISTING SANITARY SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITY'S MINIMUM STANDARDS.

6. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT

SANITARY SEWER SERVICES ARE NOT TO BE PLACED INTO OPERATION UNTIL THE OPERATION LICENSE(S) IS OBTAINED FROM THE RELEVANT ISSUING AUTHORITY.

CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

## DEFLECTION TEST: TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE (AT LEAST 30

a.THE LEAKAGE EXFILTRATION OR INFILTRATION IS NOT EXCEED 100 GALLONS PER INCH OF PIPE

**DRAWING HISTORY** 

4/4/2025 100% Design Development B 7/22/2025 50% Construction D 9/18/2025 90% Construction Documents 10/14/2025 90% Construction Documents/Permit Set

PROJECT NAME RIVIERA BEACH POLICE

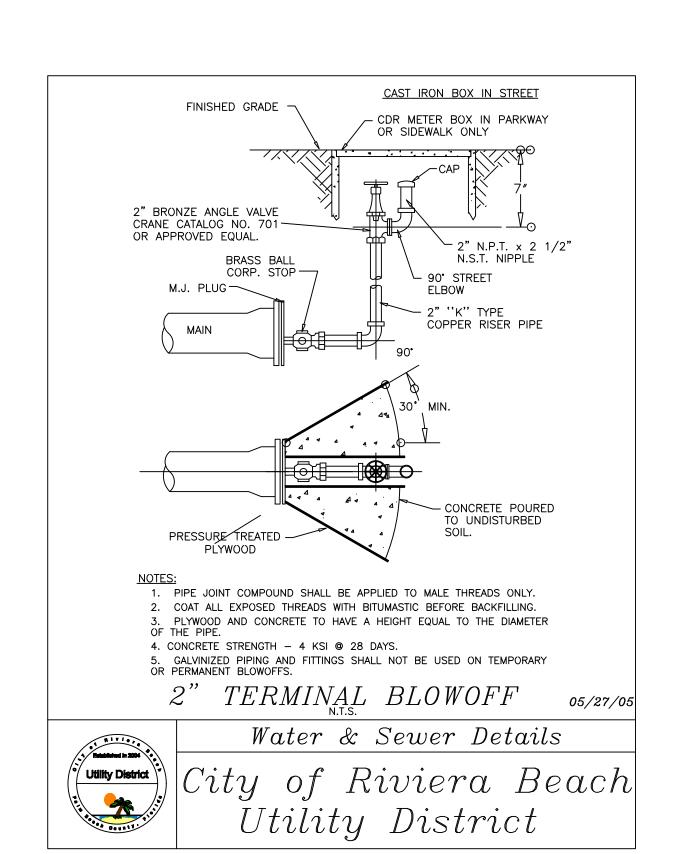
PROJECT LOCATION 2121 AVENUE S RIVIERA BEACH, FL

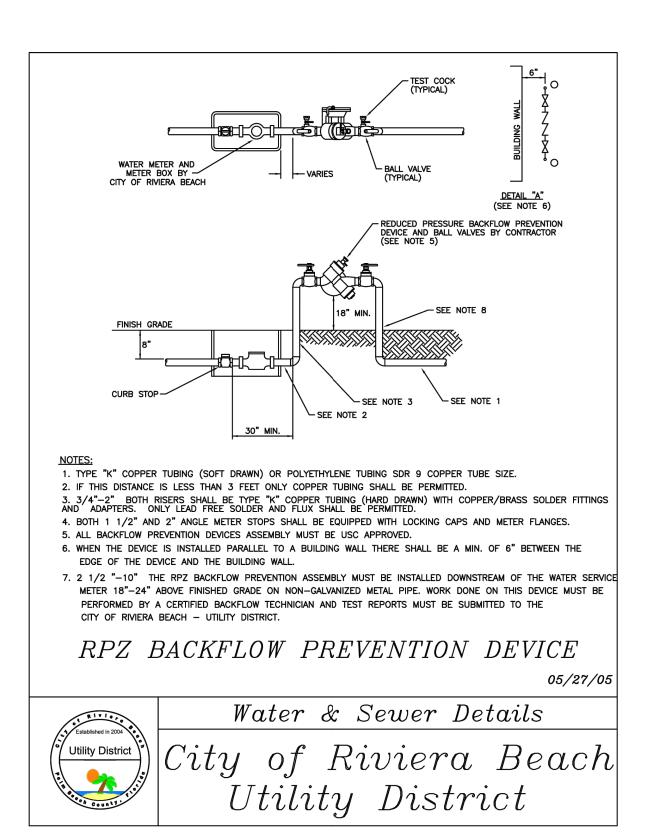
**PROJECT STATUS** 90% CONSTRUCTION DOCUMENTS/PERMIT

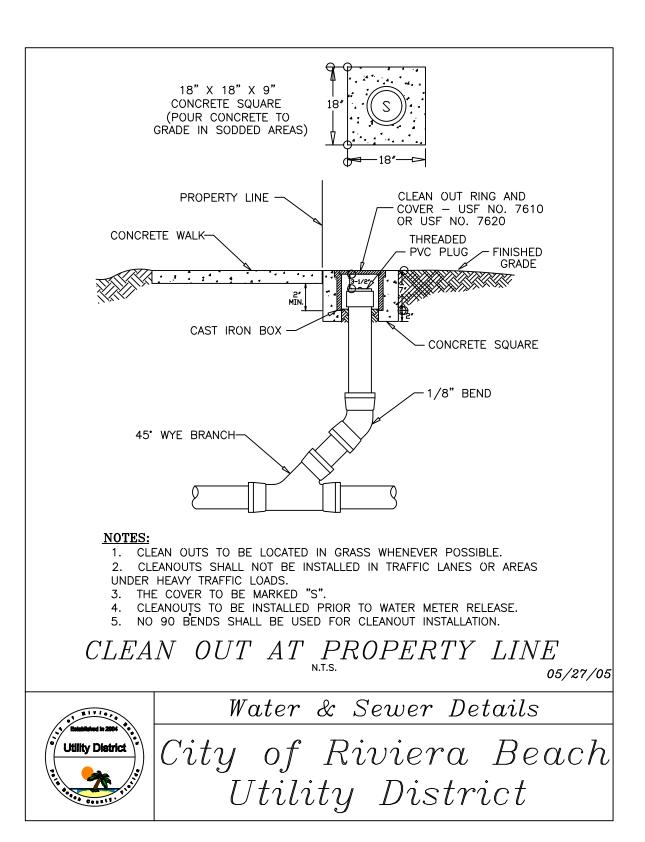
PGAL PROJECT NUMBER 1007657.00 BTE PROJECT NUMBER 24-0504

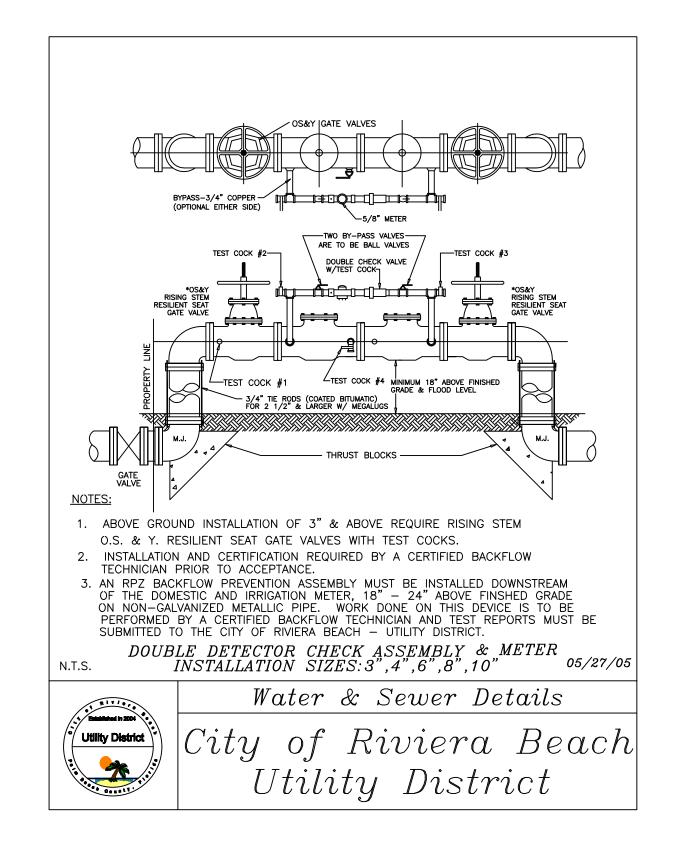
**BTE ISSUE DATE** 10-14-2025

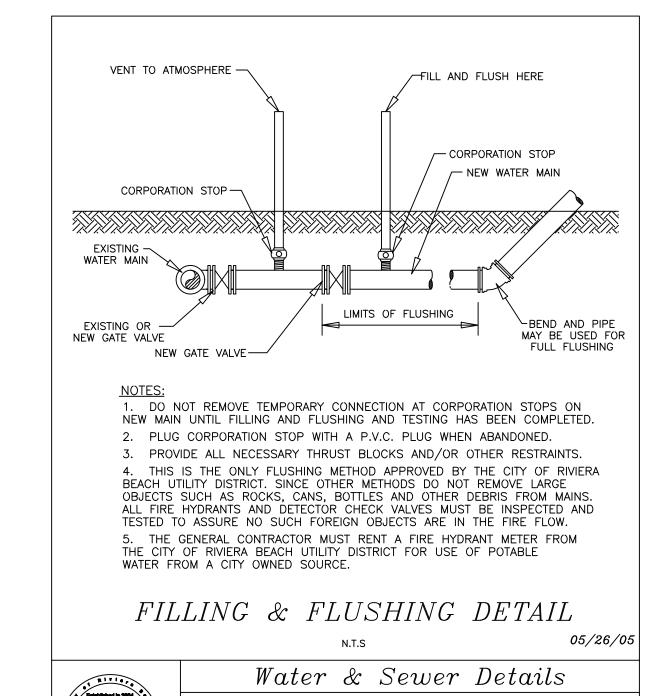
SHEET TITLE WATER AND SANITARY SEWER PLAN





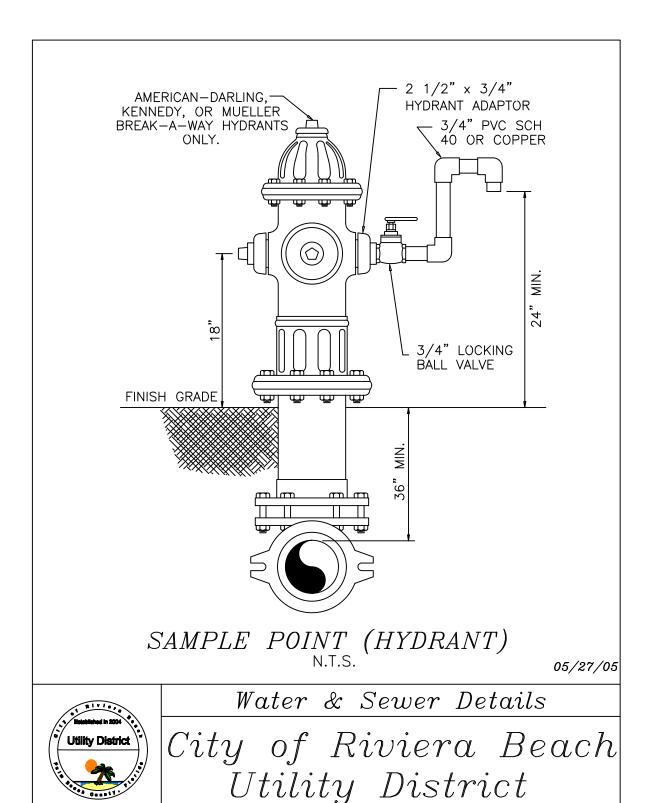


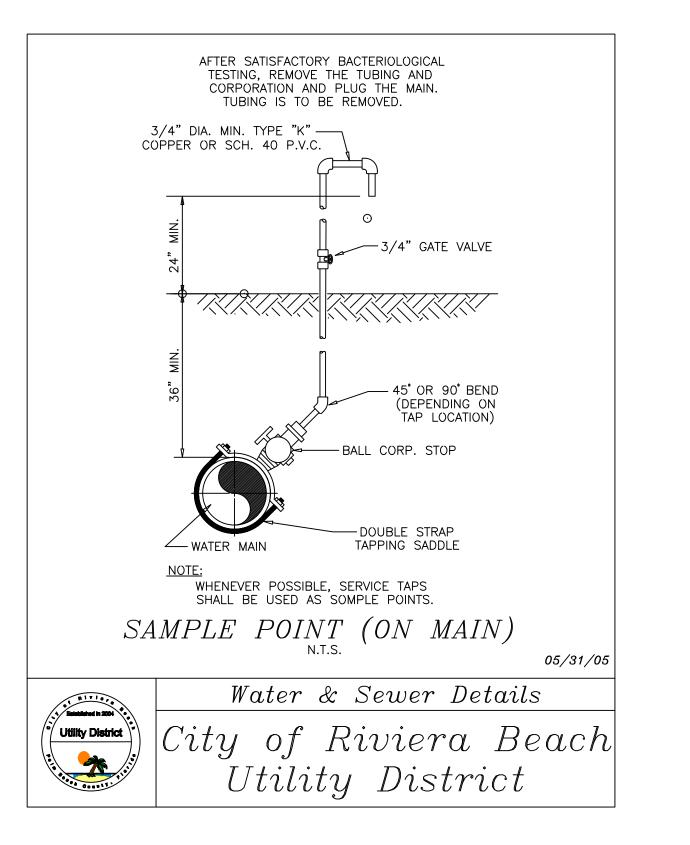


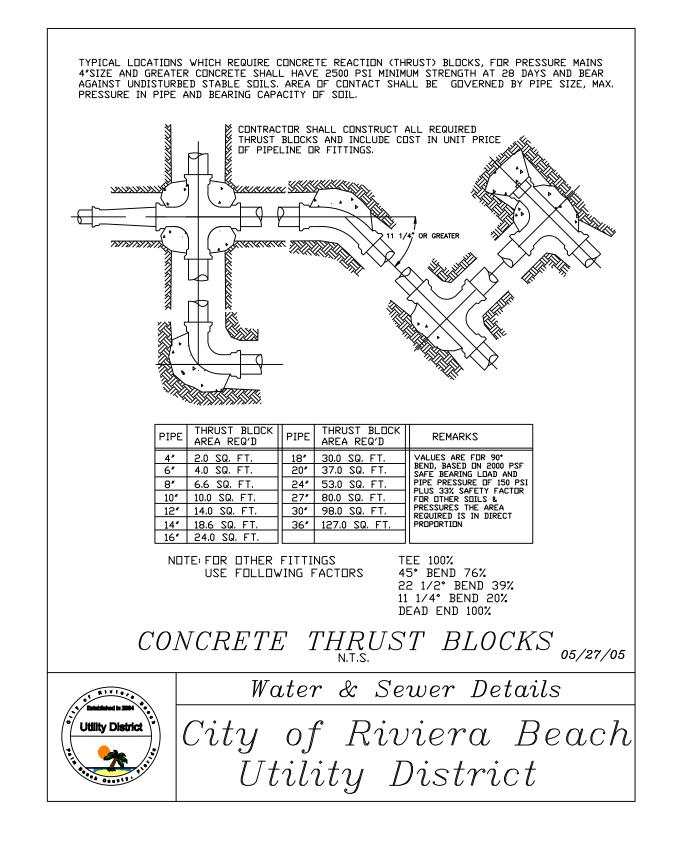


City of Riviera Beach

Utility District









CITY OF RIVIERA BEACH 1481 West 15th Street Riviera Beach, FL 33404

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DDAWING HISTORY

Nº.	DATE	DESCRIPTION
Α	4/4/2025	100% Design Development
В	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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PROJECT NAME
RIVIERA BEACH
POLICE
DEPARTMENT

PROJECT LOCATION

2121 AVENUE S
RIVIERA BEACH, FL

PROJECT STATUS
90% CONSTRUCTION
DOCUMENTS/PERMIT
SFT

PGAL PROJECT NUMBER
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10-14-2025

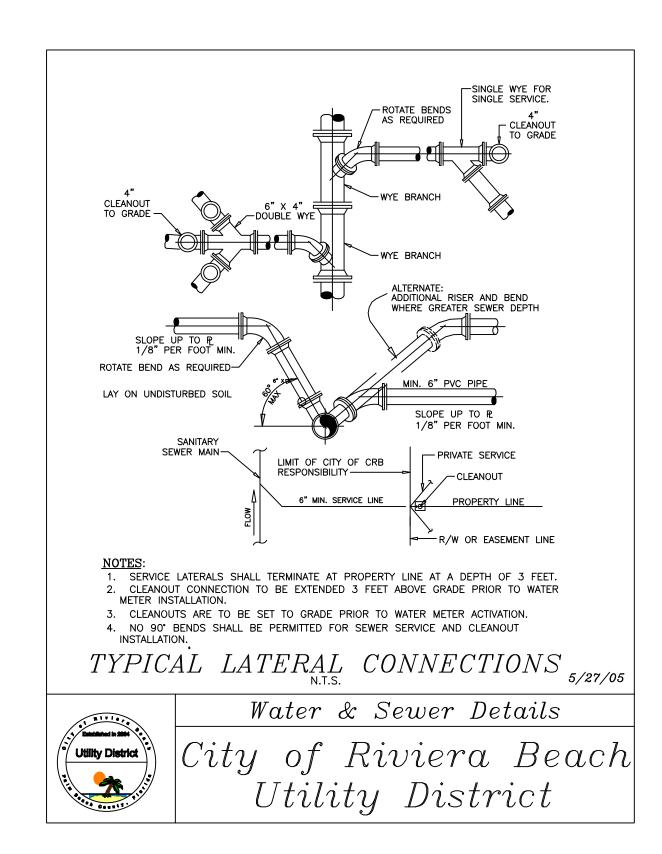
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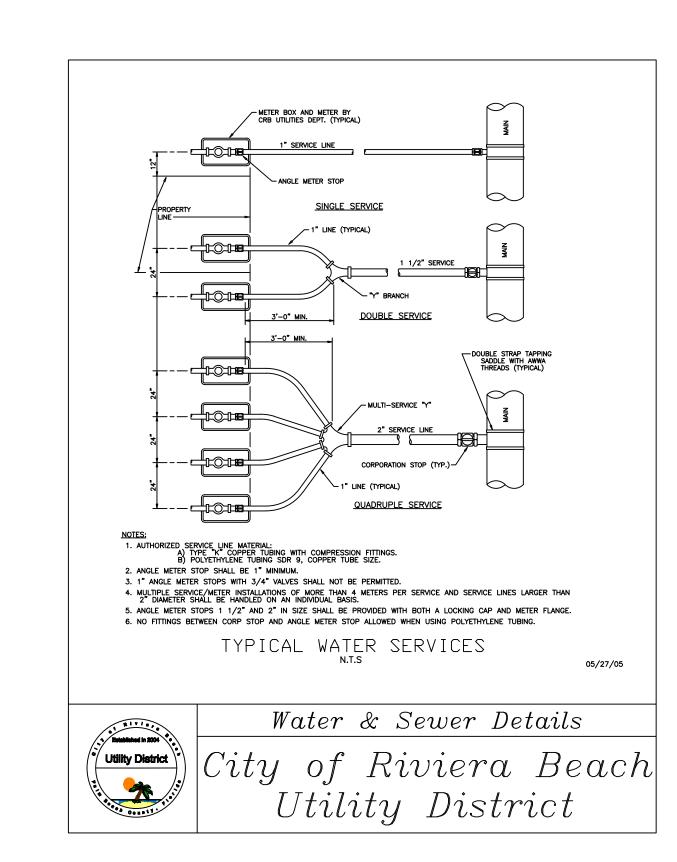
WATER AND
SANITARY SEWER

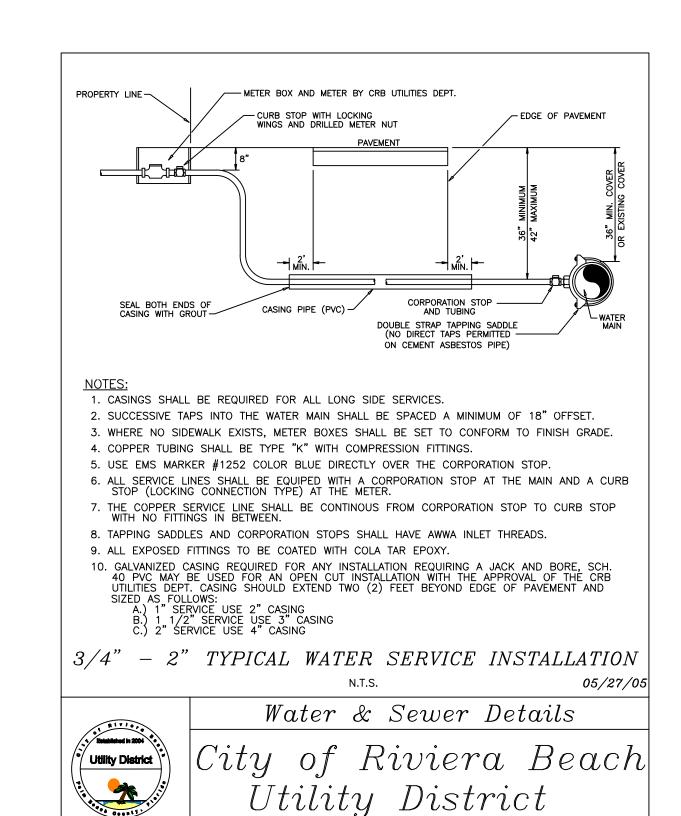
DETAILS

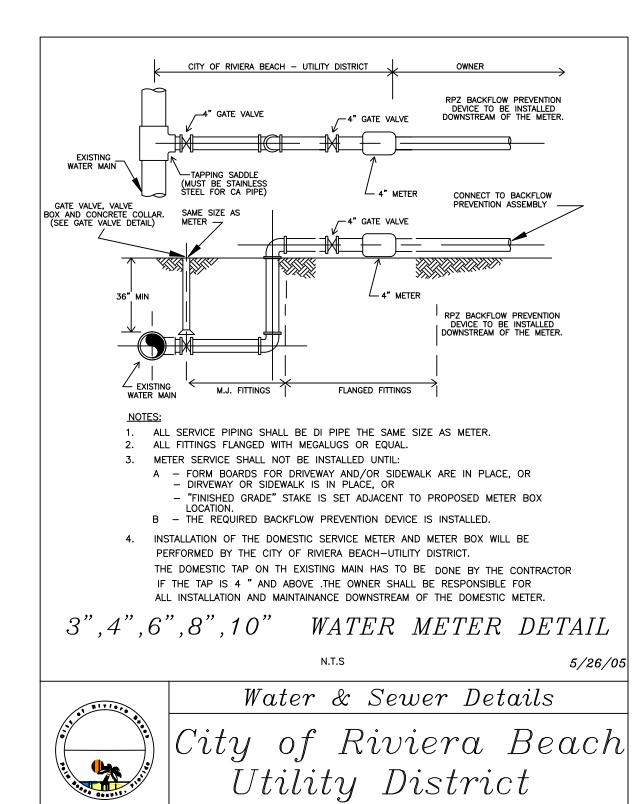
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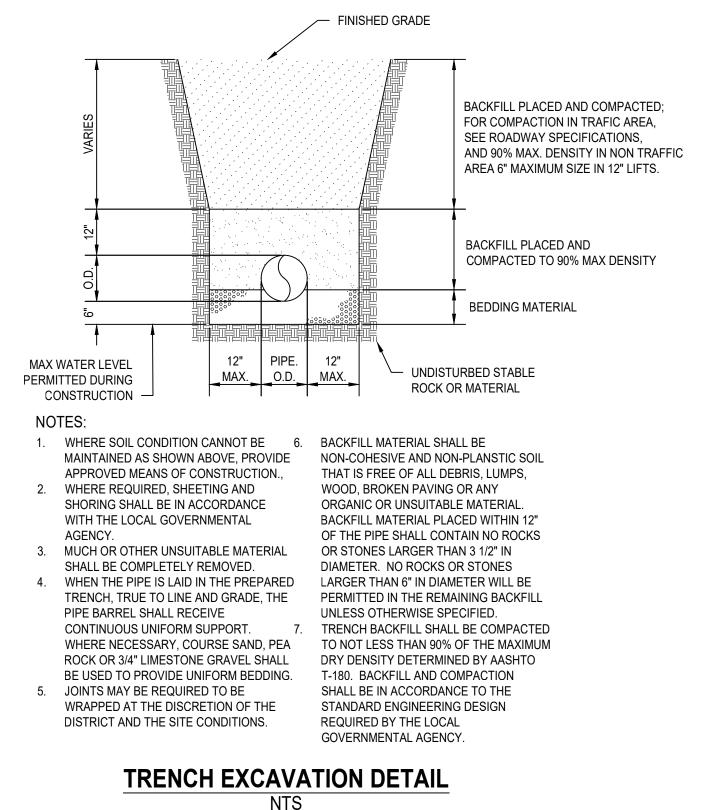
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PROJECT LOCATION
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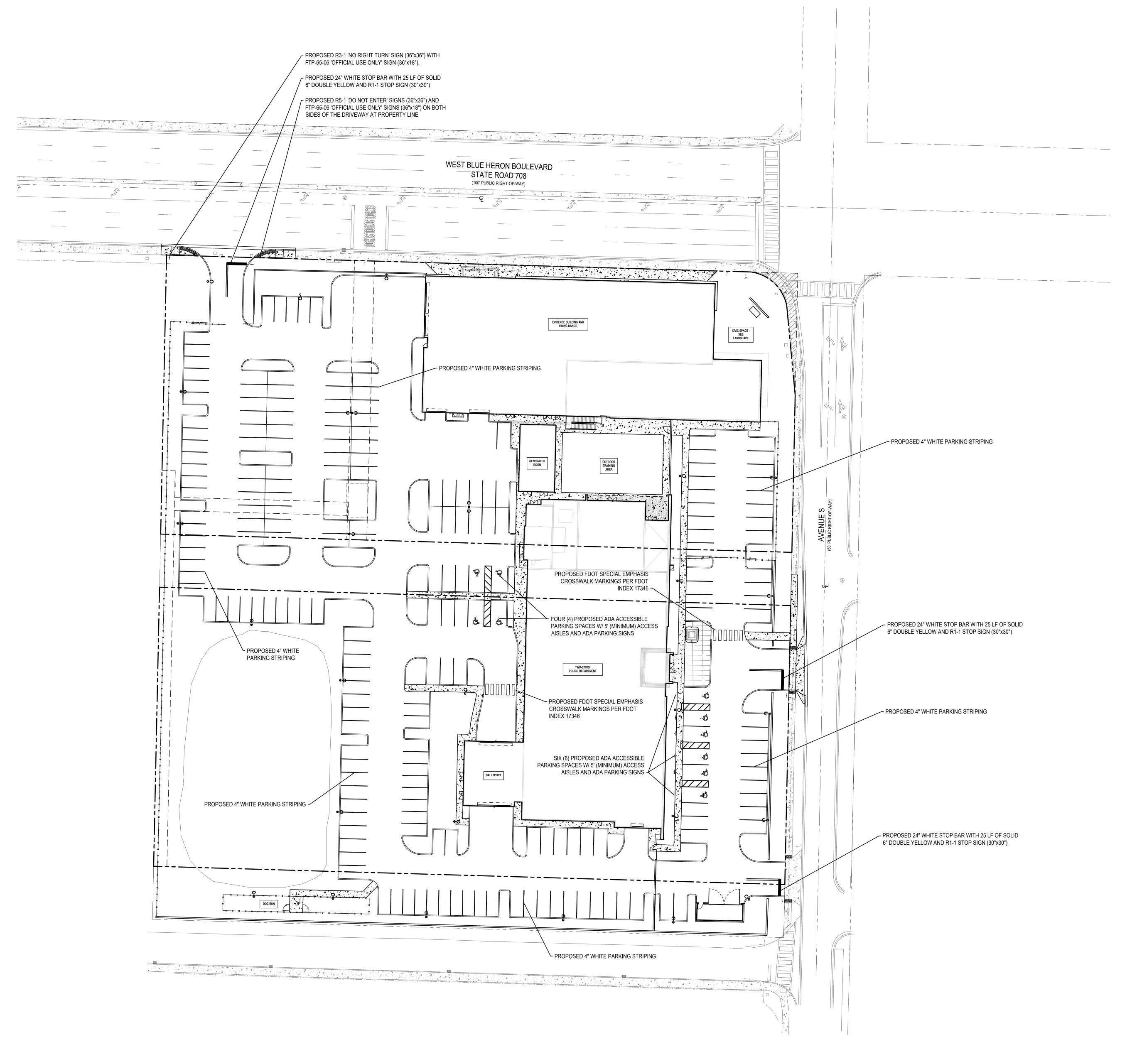
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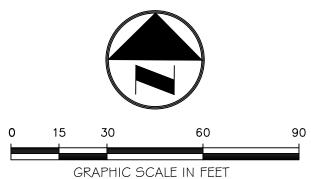
WATER AND
SANITARY SEWER

DETAILS

SHEET NUMBER

2-4.2







#### PAVEMENT MARKING & SIGNAGE NOTES:

- ALL PAVEMENT MARKING & SIGNAGE TO BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (LATEST EDITION), FDOT STANDARDS (LATEST EDITION).
- ALL PAVEMENT MARKINGS IN OR ADJACENT TO THE PUBLIC RIGHT OF WAY ARE TO BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
- PAVEMENT MARKING SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND HAVE A MINIMUM RETRO-REFLECTIVITY OF 250 MILLICANDELAS FOR WHITE AND 175 FOR YELLOW.
- 4. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURER'S SPECIFICATIONS.
- 5. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
- 6. EXISTING MARKINGS SHALL BE REMOVED BY SANDBLASTING ONLY.
- 7. ALL REGULATORY SIGNS SHALL BE TYPE XI SHEETING MATERIAL.
- 8. SEE FDOT INDEX NO. 706 FOR PLACEMENT OF RPM's. (FOR BULLNOSE RPM TREATMENT,
- SEE LEGEND NO. 1).

  9. RPM's SHALL BE CLASS "B" 911 OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS
- 10. ALL STOP BARS TO BE 4' BEHIND CROSSWALK OR SIDEWALK.

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CITY OF RIVIERA BEACH

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SEAL

DRAWING HISTORY

No. DATE DESCRIPTION
A 4/4/2025 100% Design
Development
B 7/22/2025 50% Construction
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B 7/22/2025 50% Construction
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D 9/18/2025 90% Construction
Documents

10/14/2025 90% Construction
Documents/Permit Set

PROJECT NAME
RIVIERA BEACH
POLICE
DEPARTMENT

PROJECT LOCATION

2121 AVENUE S
RIVIERA BEACH, FL
33404

PROJECT STATUS
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DOCUMENTS/PERMIT
SET

PGAL PROJECT NUMBER
1007657.00
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24-0504

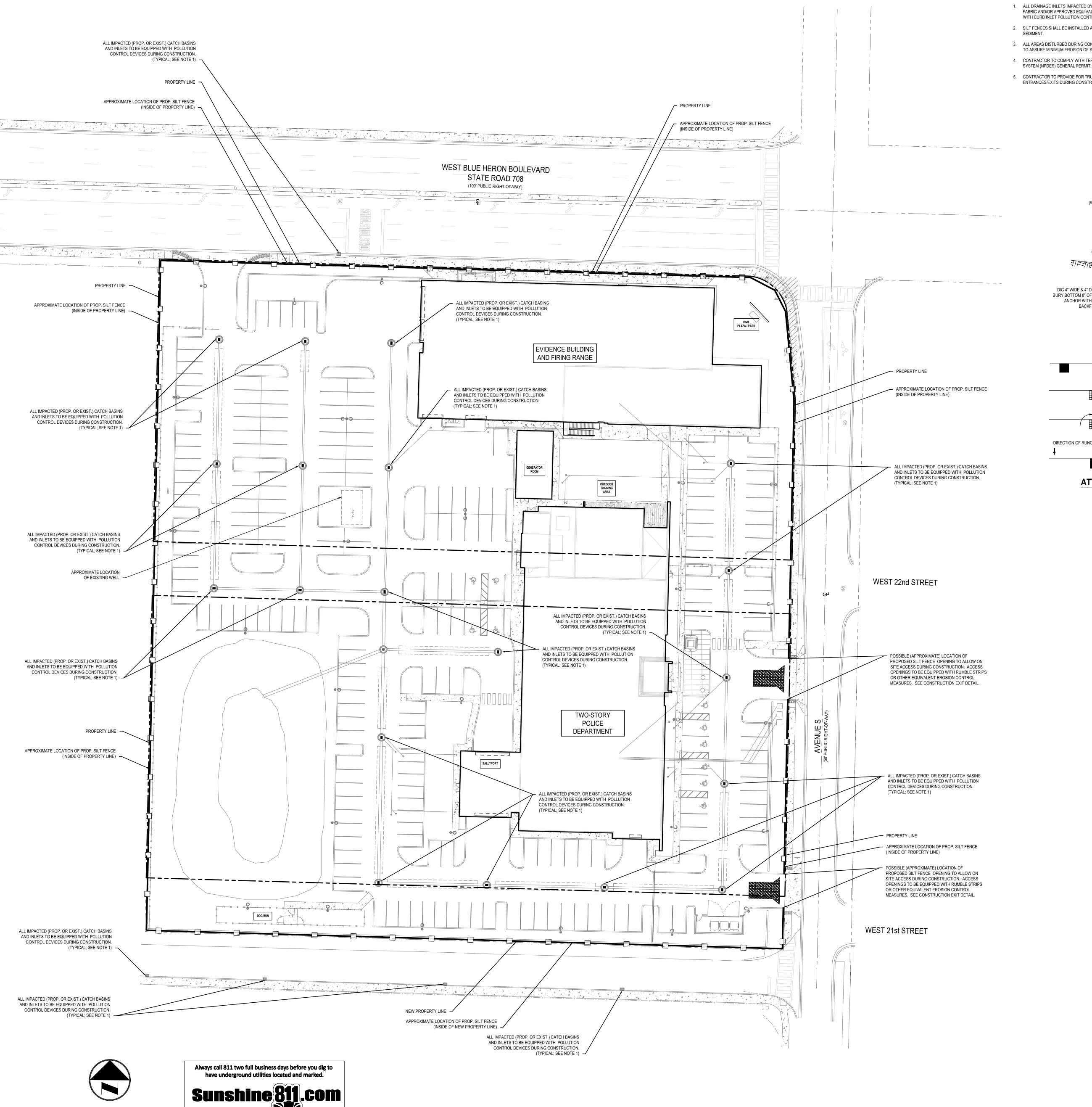
10-14-2025

SHEET TITLE
PAVEMENT
MARKING AND

SHEET NUMBER

C-5

SIGNAGE PLAN



#### **POLLUTION CONTROL NOTES:**

1. ALL DRAINAGE INLETS IMPACTED BY THIS PROJECT DURING CONSTRUCTION TO BE EQUIPPED WITH FILTER FABRIC AND/OR APPROVED EQUIVALENT OVER GRATES PER DETAIL THIS SHEET. CURB INLETS TO BE EQUIPPED WITH CURB INLET POLLUTION CONTROL DEVICES.

- 2. SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT OFF-SITE DISCHARGE OF
- 3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
- 4. CONTRACTOR TO COMPLY WITH TERMS AND CONDITIONS OF NATIONAL POLLUTION DISCHARGE ELIMINATION
- 5. CONTRACTOR TO PROVIDE FOR TRUCK WASH DOWN AREA AT ALL TEMPORARY AND PERMANENT ENTRANCES/EXITS DURING CONSTRUCTION.

FENCE POST

FABRIC

RUNOFF

SILT FENCE SECTION

ATTACHING TWO SILT FENCES

PLACE THE END POST

INSIDE THE END POST

OF THE FIRST FENCE

OF THE SECOND FENCE

ROTATE BOTH POSTS AT

LEAST 180 DEGREES IN A

CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL

CLOCKWISE DIRECTION TO

DRIVE BOTH POSTS ABOUT 18 INCHES INTO THE

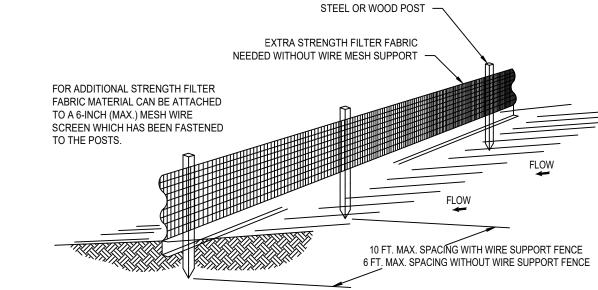
GROUND AND BURY FLAP

(WOOD OR STEEL) -

DIG 4" WIDE & 4" DEEP TRENCH, BURY BOTTOM 8" OF FABRIC, AND ANCHOR WITH COMPACTED

DIRECTION OF RUNOFF WATERS

BACKFILL MATERIAL —

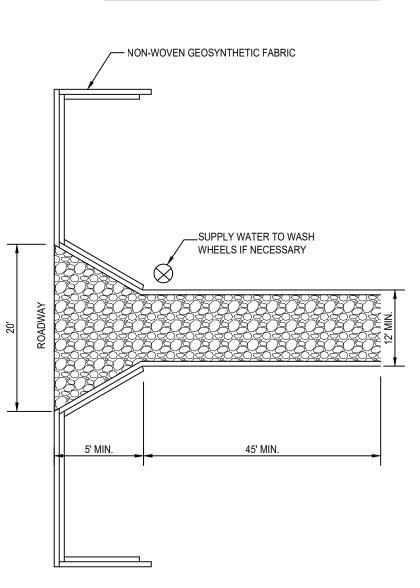


- 1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
- 2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. 3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM).
- WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M). 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT
- 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FILTER FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.

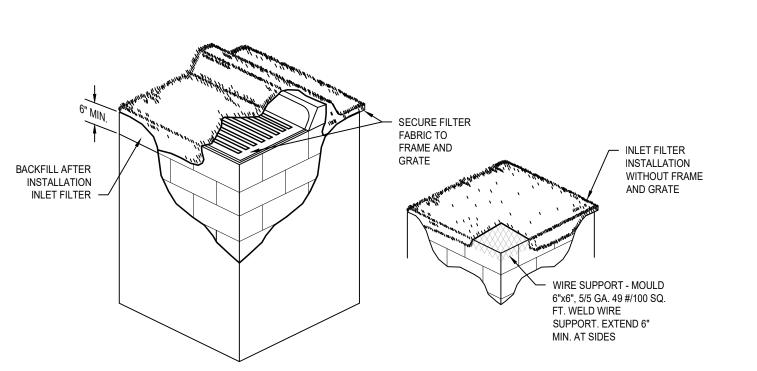
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER

EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.

## SILT FENCE INSTALLATION DETAIL



**STABILIZED CONSTRUCTION EXIT** 



1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM. . CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING. 3. A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14" IN DEPTH. APPROXIMATELY 36" IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB. 4. STORM WATE WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CUR B CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

**INLET FILTER DETAIL** 

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CONSULTANT

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**DRAWING HISTORY** 4/4/2025 100% Design B 7/22/2025 50% Construction Documents D 9/18/2025 90% Construction Documents 10/14/2025 90% Construction Documents/Permit Set

PROJECT NAME RIVIERA BEACH POLICE DEPARTMENT

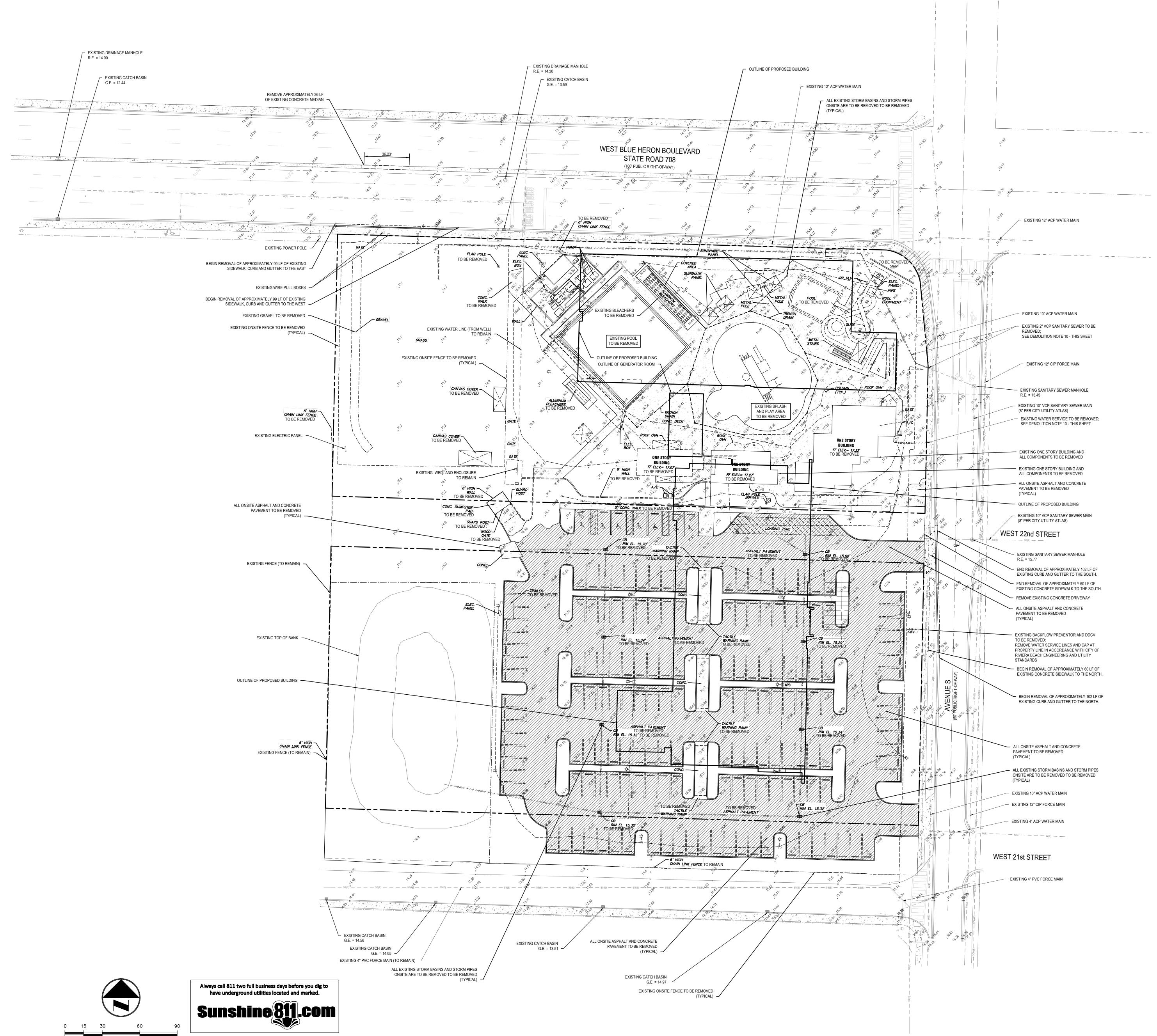
PROJECT LOCATION 2121 AVENUE S RIVIERA BEACH, FL

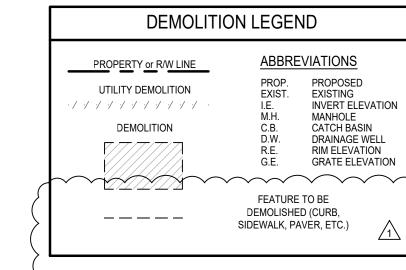
PROJECT STATUS 90% CONSTRUCTION DOCUMENTS/PERMIT

PGAL PROJECT NUMBER 1007657.00 BTE PROJECT NUMBER 24-0504

**BTE ISSUE DATE** 10-14-2025

SHEET TITLE POLLUTION AND **EROSION CONTROL PLAN** 





- 2. CONTRACTOR SHALL OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO BEGINNING WORK. RELOCATIONS SHALL BE OBTAINED WHEN THE INITIAL LOCATIONS EXPIRE.
- 3. ALL CAPPING SHALL BE INSPECTED AND APPROVED BY THE PUBLIC UTILITY OWNING THE LINES.

- AND VERTICALLY.
- MEASURES ARE INSTALLED TO ALLOW ENGINEER TO INSPECT AND APPROVE OF METHODS PRIOR TO BEGINNING DEMOLITION
- 8. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE SCOPE OF THIS PROJECT. ANY ABOVE GROUND ITEMS ON THE SITE BUT NOT
- 9. ASPHALT, PAVERS, AND ROCK TO BE REMOVED AND DISPOSED OF PROPERLY.
- CITY OF RIVIERA BEACH STANDARDS.

1. THIS PLAN IS TO DEPICT PROPOSED SITE (WATER, SANITARY, STORM, ASPHALT, CURB, ETC.) DEMOLITION ONLY. FRANCHISED UTILITIES (OVERHEAD AND UNDERGROUND) ARE TO BE COORDINATED BY THE CONTRACTOR (SEE NOTE #5) AND ARE NOT INCLUDED IN THIS SCOPE.

- 2. REFER TO CIVIL ENGINEERING PLANS FOR MORE DIRECTION ON UTILITY DEMOLITION, RELOCATION
- 3. REFER TO BUILDING DEMOLITION PLANS FOR BUILDING DEMOLITION INFORMATION.
- 4. REFER TO TREE DISPOSITION PLAN FOR ANY LANDSCAPING DEMOLITION.
- 5. CONTRACTOR IS VERIFY THAT ALL SERVICES TO THE SITE HAVE BEEN DISCONTINUED AND THEY ARE

- EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

**DEMOLITION NOTES:** 

- 1. CONTRACTOR SHALL SECURE ALL APPLICABLE PERMITS FOR DEMOLITION OF THE SITE PRIOR TO MOBILIZATION.
- 4. ALL PREMISES AND EXTERIOR PROPERTY LINES SHALL BE PROTECTED AGAINST DEBRIS FALLING OVER THE PROPERTY LINES.
- 5. ALL APPLICABLE ORDINANCES SHALL BE FOLLOWED AS THEY RELATE TO AIR, NOISE AND WATER RUNOFF FROM THE SITE. (I.E. ALL RUBBLE SHALL BE WATERED CONTINUOUSLY TO CONTROL DUST AND FLYING DEBRIS.)
- 6. WHEN PLUGGING EXISTING SEWER SERVICES, CONTRACTOR SHALL FORWARD AS-BUILT PLANS PREPARED BY A LICENSED SURVEYOR AT THE CONTRACTORS EXPENSE FOR REVIEW AND APPROVAL BY THE CITY AND/OR ENGINEER. VERIFY HORIZONTALLY
- 7. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO MOBILIZATION. CONTRACTOR SHALL NOTIFY E.O.R. WHEN
- SHOWN SHALL BE INCLUDED IN THE BID.
- 10. EXISTING SANITARY SEWER SERVICES HAVE NOT BEEN LOCATED BUT ARE TO BE REMOVED AND CAPPED AT THE ROW LINE PER

#### **GENERAL NOTES:**

- AND/OR ABANDONMENT INFORMATION AND DETAILS.
- RESPONSIBLE FOR OBTAINING ALL UTILITY COMPANY RELEASES (FPL, BELLSOUTH, COMCAST, ETC.) PRIOR TO BEGINNING DEMOLITION.
- 6. ALL SERVICES TO ADJACENT PROPERTIES NOT SCHEDULED FOR DEMOLITION ARE TO REMAIN.
- 7. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE

CLIENT

CITY OF RIVIERA BEACH 1481 West 15th Street Riviera Beach, FL 33404



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**CONSULTANT** 

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SEAL

**DRAWING HISTORY** 4/4/2025 100% Design B 7/22/2025 50% Construction D 9/18/2025 90% Construction 10/14/2025 90% Construction Documents/Permit Set

PROJECT NAME RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION 2121 AVENUE S RIVIERA BEACH, FL 33404

**PROJECT STATUS** 90% CONSTRUCTION DOCUMENTS/PERMIT

PGAL PROJECT NUMBER 1007657.00 BTE PROJECT NUMBER 24-0504

**BTE ISSUE DATE** 10-14-2025

SHEET TITLE SITE DEMOLITION PLAN