ORIGINAL SECTION SEWER NORTH PHASE 3

CITY OF GREENACRES PALM BEACH COUNTY, FLORIDA



CONTACTS:

PHONE:(561)-642-2074

OWNER: CITY OF GREENACRES

CONTACT: CARLOS CEDEÑO, PUBLIC WORKS DIRECTOR

ENGINEER OF RECORD: CRAVEN THOMPSON & ASSOCIATES, INC. CONTACT: LEONARD Z. GAMBLE, P.E. PHONE:(954)-739-6400

BUILDING DEPARTMENT: CITY OF GREENACRES
CONTACT: ILEINYS CAPOTE
PHONE:(561)-642-2164

LAKE WORTH DRAINAGE DISTRICT CONACT:NICOLE SMITH PHONE: (561)-498-5363

UTILITY:PALM BEACH COUNTY WATER UTILITY DEPARTMENT CONTACT: JACKIE MICHELS PHONE:(561)-493-6000

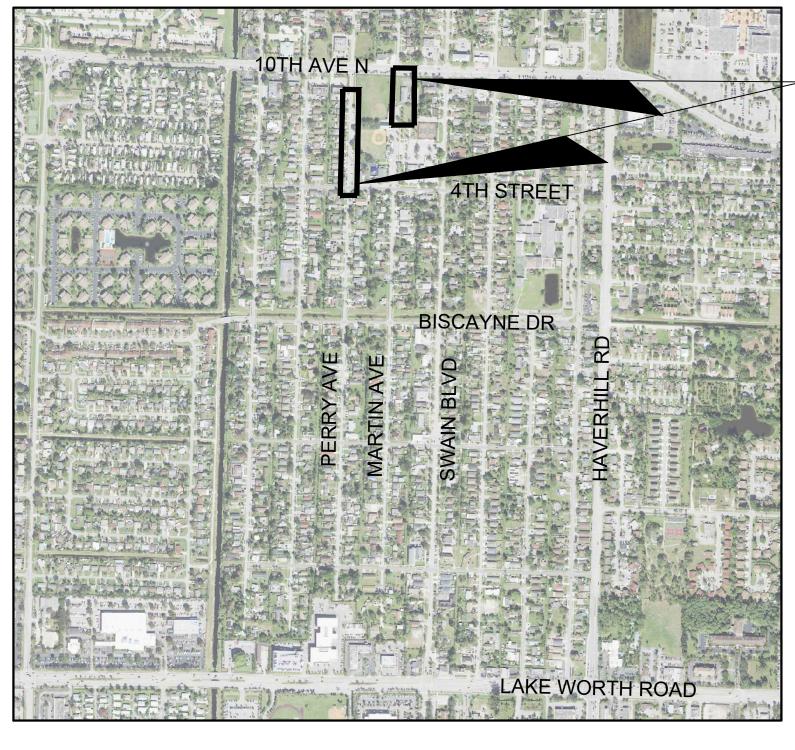
POWER COMPANY: FLORIDA POWER &LIGHT CONTACT: ALEX ARNOLD PHONE:(561)-616-1611



CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS

3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 FAX: (954) 739-6409 TEL.: (954) 739-6400

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114



LOCATION MAP

SECTION 23, TOWNSHIP 44S, RANGE 42E

PREPARED FOR:

CITY OF GREENACRES

PLANNING & ENGINEERING DEPARTMENT 5800 MELALEUCA LANE GREENACRES, FL 33463 TEL: 561.642.2054 PROJECT LOCATION

SHEET DESCRIPTION	REV		
T NO. SHEET DESCRIPTION			
COVER SHEET			
GENERAL NOTES & SPECIFICATIONS			
SANITARY SEWER PLAN AND PROFILES			
SANITARY SEWER PLAN AND PROFILES			
LIFT STATION SITE PLAN			
SEWER DETAILS			
WATER DETAILS			
LIFT STATION DETAILS			
	GENERAL NOTES & SPECIFICATIONS SANITARY SEWER PLAN AND PROFILES SANITARY SEWER PLAN AND PROFILES LIFT STATION SITE PLAN SEWER DETAILS WATER DETAILS		

BID NO 25-007 DATE: 03/23/25

PBCWUD #XXXXX

Leonard Z. Gamble Florida P.E. No. 65921

CTA PROJECT NUMBER:21-0044-001-07

B. 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 ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

C. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD88).

- D. WITHIN THE CITY OF GREENACRES JURISDICTIONAL RIGHT-OF-WAY, ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH CITY OF GREENACRES SUBDIVISION AND LAND DEVELOPMENT CODE.
- E. TRENCH SAFETY ACT

 1. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN 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. A TRENCH SAFETY SYSTEM, IF REQUIRED, SHALL BE DESIGNED BY THE CONTRACTOR.
- F. ASBESTOS CEMENT PIPE (ACP), AND TRANSITE 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.
 G. ALL HANDICAP ACCESSIBLE AREAS TO CONFORM WITH THE REQUIREMENTS
- OF THE AMERICANS WITH DISABILITIES ACT, LATEST EDITION.

 H. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE REQUIREMENTS OF ANY JURISDICTIONAL AUTHORITIES, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

II. PRECONSTRUCTION RESPONSIBILITIES

- A. FOR WORK WITHIN CITY OF GREENACRES JURISDICTIONAL RIGHT-OF-WAY, PLAN APPROVAL, CITY COUNCIL APPROVAL AND PERMIT ISSUANCE ARE REQUIRED PRIOR TO SCHEDULING PRE-CONSTRUCTION CONFERENCE.
- B. 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
- C. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL
 CERTIFICATION NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR
 TO BEGINNING ANY EXCAVATION, CALL 811.
- D. LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING FACILITIES SHOWN OR FOR ANY EXISTING FACILITY NOT SHOWN. THE CONTRACTOR SHALL VERIFY THROUGH VACUUM EXCAVATION & TEST HOLE METHODS, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE ISSUE.
- E. THE CONTRACTOR SHALL COORDINATE W/ OTHER UTILITY OWNERS TO LOCATE, IDENTIFY OR RELOCATE EXISTING UTILITIES AS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK. IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- F. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN TO THE CITY OF GREENACRES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND CANNOT COMMENCE CONSTRUCTION PRIOR TO APPROVAL OF THE M.O.T. PLAN AND INSTALLATION OF THE MEASURES CALLED FOR IN THE PLAN. THE M.O.T. SHALL BE PREPARED SUCH THAT THERE IS ACCESS TO PROPERTIES AT ALL TIMES.
- G. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER AND AROUND EXISTING ELECTRIC LINES. THE CONTRACTOR SHALL CONTACT THE FLORIDA POWER & LIGHT 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.
- H. ALL UTILITY / ACCESS EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION.
- I. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE, AND FEDERAL AGENCIES.
- J. ALL REQUIRED GOVERNMENTAL AGENCY BUILDING AND RIGHT OF WAY PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITY.

III. INSPECTIONS

- A. THE CONTRACTOR SHALL NOTIFY THE CITY OF GREENACRES, THE ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND 24 HOUR ADVANCED NOTIFICATION PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS, WHERE APPLICABLE:
 - CLEARING AND DEMOLITION
 STORM DRAINAGE SYSTEM (INSTALLATION & TESTING)
 - 3. SANITARY SEWER SYSTEM (BID ALTERNATE)4. WATER DISTRIBUTION SYSTEM (BID ALTERNATE)
- 5. SUBGRADE 6. LIMEROCK BASE
- 7. ASPHALTIC CONCRETE 8. SIDEWALK
- 9. LANDSCAPING 10. FINAL

IV. SHOP DRAWINGS

A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS
SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD
FOR THE FOLLOWING: DRAINAGE PIPE, CONCRETE, AND DRAINAGE
STRUCTURES, TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

V. TEMPORARY FACILITIES

CONSTRUCTION.

- A. GENERAL
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.
- B. TRAFFIC REGULATION

 1. 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.). CONTRACTOR IS RESPONSIBLE TO PREPARE AND PROCESS A MAINTENANCE OF TRAFFIC PLAN AND OBTAIN APPROVAL FROM CITY OF GREENACRES PRIOR TO THE START OF
 - 2. 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 ENGINEER OF RECORD AND THE CITY OF GREENACRES.
 - 4. THE SAFE WALK ROUTE FOR ALL SCHOOLS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING THE ARRIVAL AND DISMISSAL OF SCHOOL.

- 5. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE.
- 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. ANY DEVICE DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTORS EXPENSE. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED IN ACCORDANCE WITH CITY OF GREENACRES STANDARDS.

VI. STORM DRAINAGE

A. GENERAL

- CATCH BASIN, YARD DRAIN/INLINE DRAIN & STORM MANHOLE
 GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE
 ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.
- 2. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
- B. MATERIALS
 1. REINFORCED CONCRETE PIPE (R.C.P.) SHALL MEET THE REQUIREMENTS OF ASTM C-76, CLASS III, LATEST REVISION. RUBBER
 - GASKETS OR OTHER MANUFACTURER SUPPLIED JOINT SEALER SHALL BE USED.

 2. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-478 AND 65T UNLESS OTHERWISE NOTED IN THE PLANS. THE MINIMUM WALL THICKNESS SHALL BE 6 INCHES AND

MINIMUM SLAB THICKNESS SHALL BE 8 INCHES. THE MINIMUM

REINFORCING SHALL BE GRADE 60 NO. 4 BARS AT 12 INCHES EACH

- WAY UNLESS OTHERWISE INDICATED. CONCRETE SHALL BE MINIMUM
 OF FC=4000 PSI AT 28 DAYS.
- C. INSTALLATION

 1. PIPE BEDDING MATERIAL SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS, AND LARGER ROCK SHALL BE REMOVED. BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAXIMUM LAYERS TO ACHIEVE 98% OF THE MAXIMUM DENSITY PER AASTHO T-180. BEDDING MATERIAL SHALL BE PLACED 4" BELOW BOTTOM OF PIPE AND EXTEND TO SPRING LINE OF PIPE
 - 2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL (2" MAX. SIZE), PLACED AND COMPACTED TO ACHIEVE 98% OF THE MAXIMUM DENSITY PER AASTHO T-180, WITH WELL TAMPED LAYERS NOT TO EXCEED 6" TO A HEIGHT 12" ABOVE PIPE. REFER TO UTILITY TRENCH DETAIL WITHIN PLAN SHEETS.
- 3. PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OF COVER OVER STORM SEWER PIPE AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL NOTIFY CITY OF GREENACRES AT LEAST 7
 DAYS PRIOR TO THE START OF THE CONSTRUCTION AND
 INSPECTION.

VII. WATER DISTRIBUTION SYSTEM AND GRAVITY SEWER SYSTEM

A. WATER DISTRIBUTION SYSTEMS AND SEWER COLLECTION SYSTEM CONSTRUCTION, IF REQUIRED, SHALL COMPLY WITH ALL PALM BEACH COUNTY WATER UTILITY DEPARTMENT AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.

VIII. PAVING

- A. GENERAL
 - ALL UNDERGROUND UTILITIES SHALL BE COMPLETED AND TESTED PRIOR TO FINISHED GRADING AND COMPACTION OF SUBGRADE.
 - 2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE
 - 3. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE CLEANLY SAW CUT TO ENSURE A PROPER JOINT.

B. MATERIALS

- 1. LIMEROCK BASE MATERIAL SHALL BE CRUSHED LIMEROCK MIAMI OOLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM (60% FOR LOCAL STREETS, DRIVEWAYS AND PARKING AREAS).
- 2. ASPHALT SURFACES FOR ROADWAYS SHALL CONFORM WITH
 - THE FOLLOWING:

 1 1/2" TYPE S-III ASPHALT (TWO 3/4" LIFTS): BOTTOM COURSE:
 3/4" LIFT OF TYPE S-III ASPHALTIC CONCRETE PAVEMENT
 FOLLOWED BY 3/4" LIFT OF TYPE S-III ASPHALTIC CONCRETE
 PAVEMENT ALL MEETING MOST RECENT FDOT STANDARDS
 THAT INCLUDE TYPE S ASPHALT. TACK COAT PER F.D.O.T.
 SECTION 300 BETWEEN LIFTS.
- 3. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI EXCEPT WHERE OTHERWISE SHOWN ON THE PLANS.
- 4. SIDEWALK CONSTRUCTION SHALL BE CLASS I CONCRETE AND MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SAWCUT CONSTRUCTION JOINTS 5 FOOT O.C. WITHIN 48 HOURS OF PLACING. SIDEWALK THICKNESS SHALL BE 4" THICK WITHIN RESIDENTIAL AREAS. SIDEWALK THICKNESS SHALL BE 6" THICK WITHIN 10' OF CROSS STREETS/INTERSECTIONS, AT DRIVEWAYS, LAKE WORTH DRAINAGE DISTRICT RIGHT OF WAY, AND WITHIN ALL AREAS SUBJECT TO VEHICLI AR TRAFFIC
- TO VEHICULAR TRAFFIC.

 5. CURBS: CONCRETE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, SAWCUT CONSTRUCTION JOINTS AT 10 FOOT (O.C.) MAX. SPACING (NO SECTION SHALL BE LESS THAN 4 FEET) WITHIN 48 HOURS OF

PLACING. C. INSTALLATION

- STABILZED SUBGRADE FOR ROADWAYS SHALL BE COMPACTED TO
 98% OF MAXIMUM DENSITY PER AASTHO T-180 AND HAVE A MIN. L.B.R.
 OF 40.
- 2. LIMEROCK BASE COURSE FOR PAVED AREAS SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS PER AASTHO T-180, HAVE A L.B.R. OF 100, AND CONFORM WITH THE FOLLOWING:

 LOCAL (40'-50' ROW): A MINIMUM THICKNESS OF 8" & SHALL BE CONSTRUCTED IN TWO FOUR INCH LIFTS. PRIME & TACK COAT PER FDOT SECTION 300.
 - COLLECTOR (60'-80' ROW): A MINIMUM THICKNESS OF 12" & SHALL BE CONSTRUCTED IN TWO SIX INCH LIFTS. PRIME & TACK COAT PER FDOT SECTION 300.
- 3. INSTALLATION OF THE BASE COURSE AND WEARING COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR TYPE "S" ASPHALTIC CONCRETE OR THE LATEST REVISION.

D. TESTING

- THE FINISHED SURFACE OF THE ASPHALT BASE COURSE AND THAT OF THE ASPHALT 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.

 3. ALL TESTING COSTS SHALL BE PAID FOR BY THE
- CONTRACTOR.

 4. DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY LIMEROCK BASE IS CONSTRUCTED.
- 5. DENSITY TESTS AND AS-BUILTS ON THE FINISHED LIMEROCK BASE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD (E.O.R.) AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED. INCLUDING AS-BUILTS ON PAVED SWALES AND DRIVEWAYS.

IX. PAVEMENT MARKING & SIGNAGE

A. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," LATEST EDITION; AND CITY OF GREENACRES STANDARDS (LATEST EDITION).

X. DE-WATERING

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF DEWATERING PERMIT IS REQUIRED FOR ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES. IF A DEWATERING PERMIT IS REQUIRED, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PREPARE AND SUBMIT A DEWATERING REPORT APPLICATION (PREPARED BY A STATE OF FLORIDA LICENSED ENGINEER OR A REGISTERED PROFESSIONAL GEOLOGIST) TO ALL APPLICABLE AGENCIES FOR PERMIT APPROVAL. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE TESTING AND MONITORING OF THE DEWATERING OPERATIONS AND WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MEANS AND METHODS OF DEWATERING WHICH WILL BE SET FORTH BY THE DEWATERING PERMIT(S) OBTAINED BY THE CONTRACTOR.
- B. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE TESTING AND MONITORING OF THE DEWATERING OPERATIONS AND WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MEANS AND METHODS OF DEWATERING WHICH WILL BE SET FORTH BY THE DEWATERING PERMIT(S) OBTAINED BY THE CONTRACTOR.

XI. NPDES REQUIREMENT

- A. AT LEAST TWO (2) DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR 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 (AT THE CONTRACTORS EXPENSE) (1) ASSISTING THE OWNER(S) WITH PREPARING, COMPLETING, AND FILING THE N.O.I. AND N.O.T. TO FDEP (2) PREPARING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (REQUIRED PRIOR TO THE NOI SUBMITTAL) (3) IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT WAS REQUIRED TO BE DEVELOPED PRIOR TO THE NOI SUBMITTAL, AND (4) 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 TO THE DATE OF FINAL SITE STABILIZATION. A "NOTICE OF TERMINATION (N.O.T.) OF GENERIC PERMIT COVERAGE" FORM (DEP 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:
 - HTTP://WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES.

XII. PROJECT CLOSE-OUT

- A. CLEAN-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 SWEDT BROOM CLEAN.
- BE SWEPT BROOM CLEAN.

 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THAT END, THE CONTRACTOR SHALL DO, AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING WORK. 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 AND NEAT CONDITION.

 4. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES,
 REMOVED OR DESTROYED BY THE CONTRACTOR DURING
 CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA
 REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

 ALL PAVED AND 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.

B. 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.
- 2. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS. SEE ENGINEERS AS-BUILT REQUIREMENTS.
- 3. UPON COMPLETION OF THE CONTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS FOR REVIEW AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS. ALSO SEE ENGINEERS AS-BUILT REQUIREMENTS.
- ALSO SEE ENGINEERS AS-BUILT REQUIREMENTS.

 4. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

XIII. ENGINEER'S AS-BUILT REQUIREMENTS

- A. ALL AS-BUILT LOCATIONS MENTIONED BELOW SHALL PROVIDE COORDINATES (NORTHING AND EASTING) SPATIALLY LOCATED WITHIN STATE PLANE COORDINATES. ALL LOCATIONS (NORTHING AND EASTING) SHALL BE PROVIDED TO THE NEAREST TENTH OF A FOOT. ALSO ALL AS-BUILT LOCATION POINT COORDINATES SHALL BE PROVIDED AT THE CORRESPONDING NORTHING AND EASTING IN AN AUTOCAD FILE.
- B. EASEMENT LOCATIONS (NORTHING AND EASTINGS) SHALL BE PROVIDED ON
- C. INDICATE PIPE JOINT LOCATIONS WHERE WATER AND WASTEWATER OR RECLAIMED WATER PIPING CROSSES.
- D. SHOWING THE EXTENTS OF D.I.P. WATER MAIN OVER WATER CONFLICTS.E. SHOW ALL ABANDONED IN PLACE FACILITIES INCLUDING THE EXTENT AND
- METHOD OF ABANDONMENT.

 F. AS-BUILTS OF WATER AND FIRE LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
 - TOP OF PIPE ELEVATIONS SHALL BE PROVIDED AT VERTICAL DEFLECTION POINTS, EVERY 50 LINEAR FEET AND TO THE NEAREST TENTH OF A FOOT.
- LOCATIONS AND TOP OF PIPE ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, CHECK VALVES, GATE VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, ETC.
- 3. ALL TIE INS TO EXISTING LINES SHALL PROVIDE LOCATION AND TOP OF PIPE ELEVATION.
- LOCATION AND TOP OF PIPE ELEVATION AT THE ENDS OF ALL WATER SERVICES AT THE BUILDINGS OR WHERE THE WATER SERVICE TERMINATES.
- 5. CROSSING INFORMATION BETWEEN PROPOSED WATER MAIN PIPING AND EXISTING AND PROPOSED SEWER MAIN, FORCE MAIN, DRAINAGE, WATER MAIN, UTILITIES, ETC.
- 6. THE ENDS OF ALL WATER SERVICES AT THE BUILDINGS OR HOMES SHALL BE AS-BUILT OR WHERE THE WATER SERVICE TERMINATES.
- G. DRAINAGE AS-BUILTS SHALL BE PROVIDED SHOWING OF ALL DRAINAGE PIPING AND STRUCTURES WHICH SHALL INCLUDE THE FOLLOWING INFORMATION:
- LOCATION, RIM ELEVATION, INVERTS, BOTTOM OF STRUCTURE, BOTTOM OF POLLUTION RETARDANT BAFFLE AND WEIR ELEVATIONS (IF APPLICABLE) ON DRAINAGE STRUCTURES.
- LENGTH AND SIZE OF THE PIPING BETWEEN STRUCTURES. SIZE OF THE PIPING SHALL BE VERIFIED BY THE SURVEY CREW AT THE TIME OF AS-BUILT.
- 3. LENGTH AND SIZE OF EXFILTRATION TRENCH BETWEEN STRUCTURES ALONG WITH THE TOP AND BOTTOM ELEVATIONS OF EXFILTRATION TRENCH. LENGTH, SIZE, TOP OF AND BOTTOM OF EXFILTRATION TRENCH SHALL BE VERIFIED BY THE SURVEY CREW AT THE TIME OF AS-BUILT.
- AT THE TIME OF AS-BUILT.

 4. CONTROL STRUCTURE AS-BUILTS SHALL INCLUDE, BUT NOT BE LIMITED TO, RIM ELEVATIONS, WEIR ELEVATIONS, BOTTOM ELEVATION OF THE STRUCTURES, BOTTOM ELEVATION OF POLLUTION
- RETARDANT BAFFLE, AND INVERTS ELEVATIONS OF PIPING.

 5. CROSSING INFORMATION BETWEEN PROPOSED DRAINAGE PIPING AND EXISTING AND PROPOSED SEWER MAIN, FORCE MAIN, DRAINAGE, WATER MAIN, UTILITIES, ETC.
- H. ROCK AS-BUILTS SHALL BE PROVIDED FOR ROADWAYS AND DRIVEWAYS AREAS WHICH SHALL CONSIST OF THE FOLLOWING:
 - ROCK ELEVATIONS AT ALL HIGH AND LOW POINTS, AND AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE
 - CONSISTENCY.

 2. ROCK AS-BUILTS AND LIP OF CURB AS-BUILT ELEVATIONS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE
- ELEVATION SHOWN ON THE DESIGN PLANS.
 3. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS SHALL BE
- SHOWN.
 4. ELEVATIONS AROUND ISLAND AREAS WILL ALSO BE
- REQUIRED.

 5. WHERE CONCRETE IS TO BE USED AS A FINISHED PRODUCT FOR THE ROADWAY OR DRIVEWAY ROCK AS-BUILTS WILL BE REQUIRED AS INDICATED ABOVE AS WELL AS AS-BUILTS ON THE FINISHED CONCRETE AT LOCATIONS WHERE THERE IS A FINISH GRADE
- ELEVATION SHOWN ON THE DESIGN PLANS.

 6. 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.

 I. SIDEWALK AS-BUILTS SHALL BE PROVIDED CONSISTING OF THE FOLLOWING: LOCATION REFERENCED TO RIGHT OF WAY AND AS-BUILT ELEVATIONS PROVIDED AT BACK AND FRONT OF SIDEWALK EVERY 50 LF
- AND AT THE PC AND PT ALONG CURVES.

 J. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE RECORD DRAWINGS AND "AS-BUILTS", ON FULL SIZE, 24" X 36"
 REPRODUCIBLE MATERIAL. TWO (2) SETS OF THESE RECORD DRAWINGS AND "AS-BUILTS" SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR. ADDITIONALLY, AN ELECTRONIC COPY OF THESE RECORD DRAWINGS AND "AS-BUILTS", SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN BOTH PDF AND AUTOCAD (VERSION 2010 OR
- GREATER).

 K. FINAL DELIVERABLES SHALL INCLUDE AN AUTOCAD-COMPATIBLE DIGITAL FILE CONTAINING ALL PERTINENT RECORD DRAWING AND "AS-BUILT" INFORMATION (INCLUDING, WATER, SEWER, PAVING, AND DRAINAGE). FILE
- TO BE SPATIALLY LOCATED WITHIN STATE PLANE COORDINATES.

 "AS-BUILTS" OF ALL GRAVITY SANITARY SEWER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
- 1. RIMS, INVERTS, AND LENGTH OF PIPING BETWEEN STRUCTURES AS WELL AS SLOPES.
- 2. THE STUB ENDS OF ALL SEWER LATERALS SHALL BE LOCATED, AND IF THERE ARE ANY CLEANOUTS INSTALLED ON THE SEWER LATERALS, THEN THE INVERTS ELEVATION OF THESE CLEANOUTS NEED TO BE OBTAINED.

XIV. ROUGH FILL / EARTH WORK

- A. ALL FILL SHALL BE CLEAN OF DELETERIOUS MATERIAL & COMPACTED TO
- B. THE TOP 12" OF FILL SHALL BE GRANULAR MATERIAL W/ NO ROCK GREATER THAN 3/4".

98% OF THE MAXIMUM DRY DENSITY (AASHTO T-180)

XV. CONFLICT

A. ANY CONFLICT DETERMINED BETWEEN DRAWINGS, TECHNICAL SPECIFICATIONS, THE ENGINEERING DEPT. OF PALM BEACH COUNTY & THE PALM BEACH COUNTY UTILITIES DEPARTMENT STANDARDS, THE MOST STRINGENT SHALL GOVERN.

XVI. POLLUTION PREVENTION PLAN

A. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH FDEP NPDES STORMWATER POLLUTION PROGRAM PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN NPDES PERMIT AS REQUIRED.

PBCWUD # XXXX

March 3, 2025 SHEET NO.

REVISIONS

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DESIGNED BY CHECKED BY CHECKED BY BY

CHECKED BY

BY

CHECKED BY

BY

CHECKED BY

BY

CHECKED BY

BY

CHECKED BY

CHECKED

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER

NORTH PHASE 3

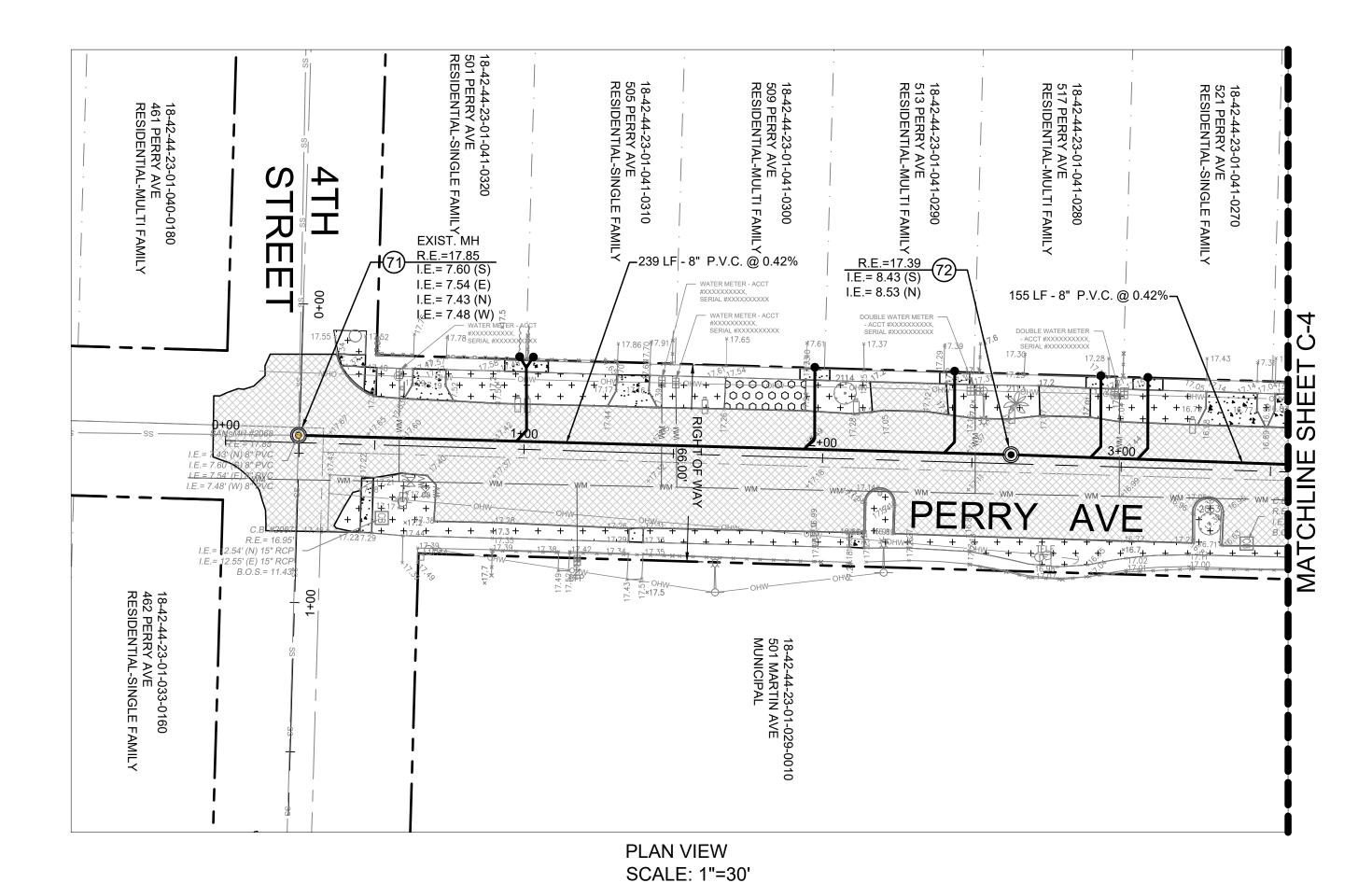
CITY OF GREENACRES

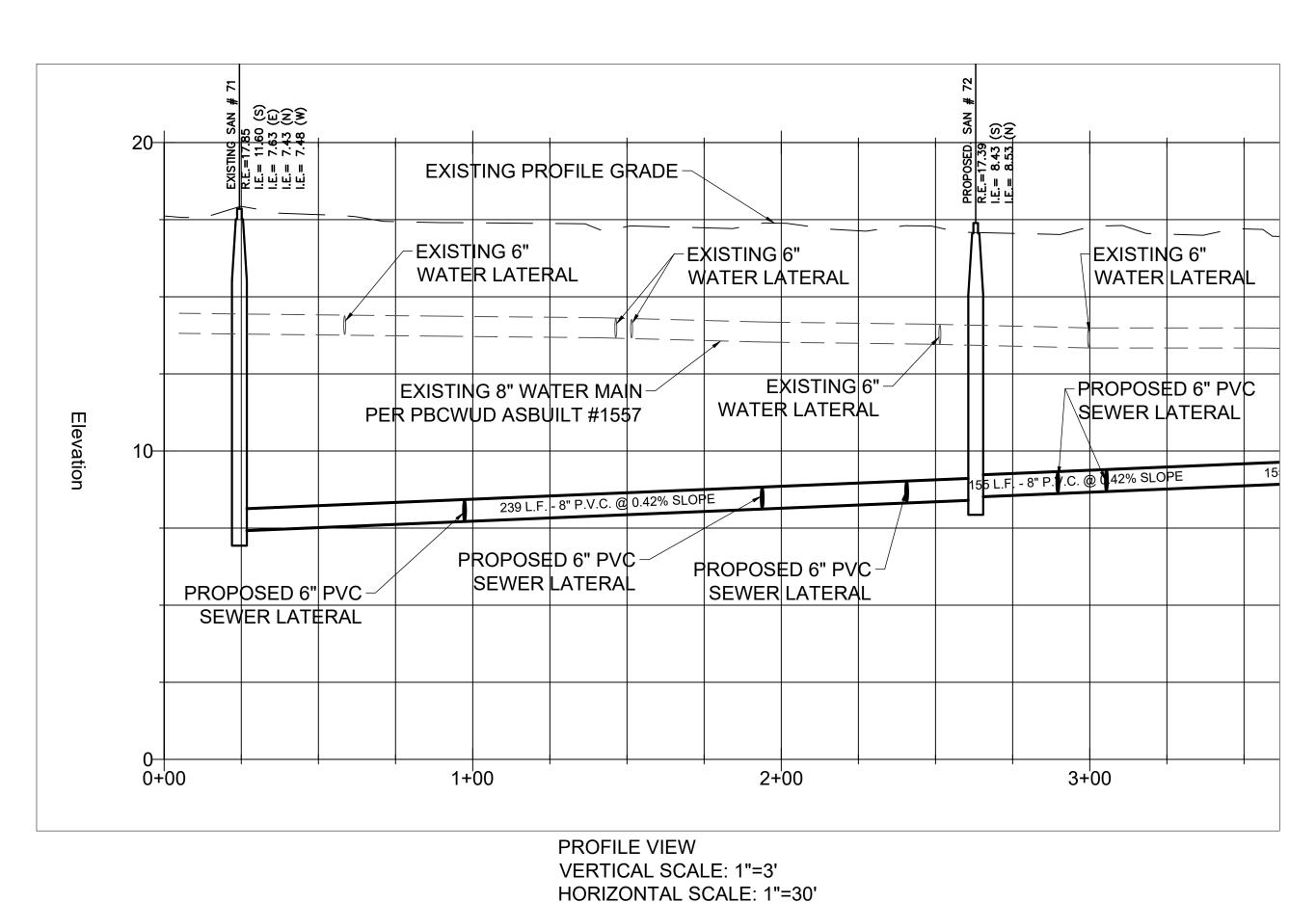
GENERAL NOTES & SPECIFICATIONS

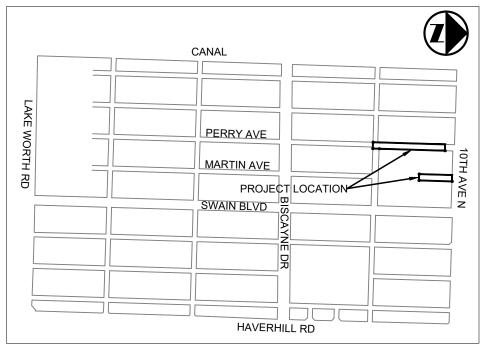
C-2

Leonard Z. Gamble

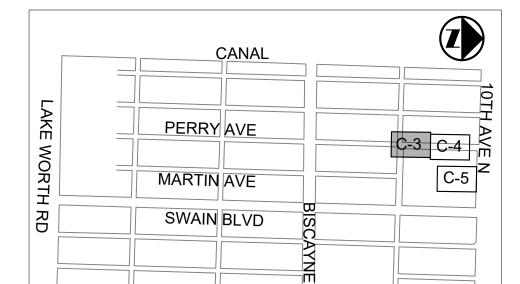
Florida P.E. No. 65921







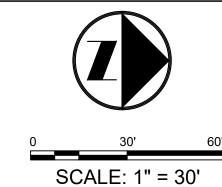
LOCATION MAP SECTION 23, TOWNSHIP 44S, RANGE 42



KEY MAP

HAVERHILL RD





GENERAL WATER NOTES

1. ALL EXISTING WATER SERVICES TO REMAIN. IF RELOCATION IS REQUIRED IT MUST BE DONE UNDER THE SUPERVISION OF THE PROJECT'S WUD INSPECTOR OR DONE BY PROWLID PERSONNEL ONLY

2. ALL WATER SERVICE BRASS FITTINGS ARE REQUIRED TO BE LEAD FREE.

3. ALL EXISITNG PBCWUD FACILITIES (IE. VALVES) TO BE OPERATED BY PBCWUD PERSONNEL ONLY OR BY DIRECTION AND UNDER THE SUPERVISION OF THE PROJECT WUD INSPECTOR.

GENERAL SEWER NOTE

1. SEWER LATERALS ARE PUBLICLY OWNED AND MAINTAINED UP TO CLEANOUT AT THE

2. SEWER CLEANOUT MINI-MANHOLES ARE REQUIRED ON ALL CLEANOUTS WITHIN PAVEMENT AND/OR SIDEWALK AREAS.

PBCWUD WASTEWATER NOTE

ALL GRAVITY SEWER MAINS, MANHOLES AND LATERALS ON THIS PROJECT TO BE CONSTRUCTED PER THE MARCH 2023 PALM BEACH COUNTY WATER UTILITIES DEPARTMENT (WUD) MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

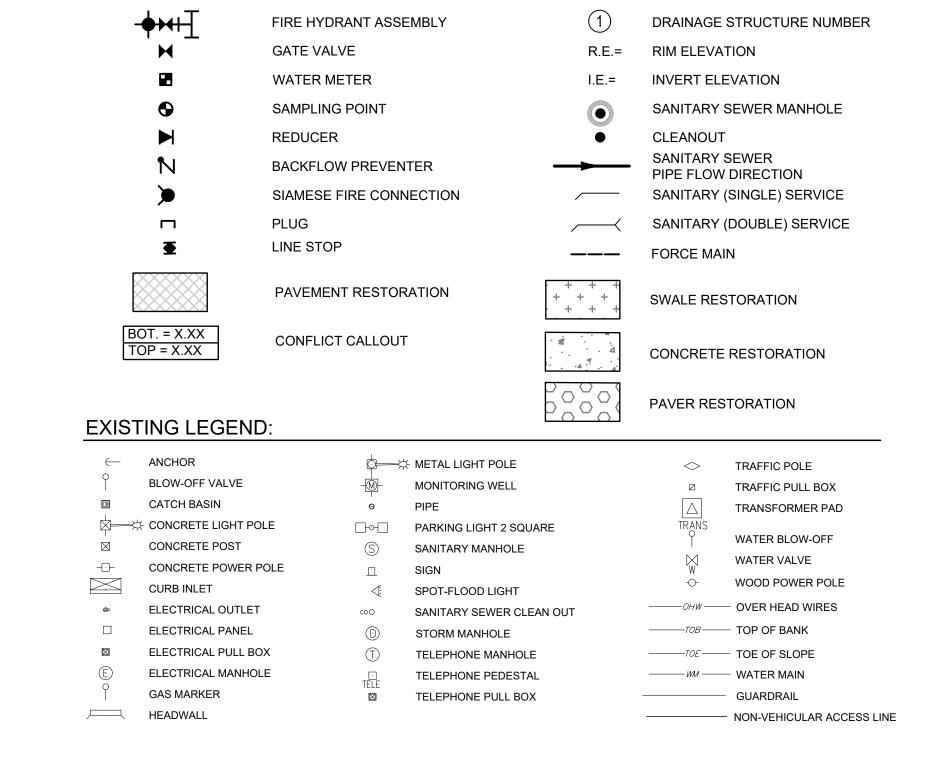
GENERAL LANDSCAPE NOTES

1. IF ANY NEW LANDSCAPE MATERIALS ARE INSTALLED AS PART OF THIS PROJECT THEN SOD ONLY WITH NO SHRUBS AND/OR TREES ARE TO BE INSTALLED WITHIN 5' OF ANY WATER METER AND WITHIN 7.5' OF ANY FIRE HYDRANT. TREES CANNOT BE INSTALLED WITHIN 10' OF A WUD WATER OR FORCE MAIN WITHOUT PRIOR PBCWUD APPROVAL AND THE INSTALLATION OF A ROOT BARRIER. ALSO IF ANY EXISTING TREES ARE LESS THAN 10' MINIMUM OF ANY NEW GRAVITY SEWER MAINS A ROOT BARRIER IS REQUIRED TO BE INSTALLED OR TREE RELOCATED/REMOVED

GRAVITY SEWER AVAILABILTY NOTE:

THIS GRAVITY SEWER SYSTEM IS BEING CONSTRUCTED AT THE CITY OF GREENACRES OWN RISK PENDING DESIGN, APPROVAL AND CONSTRUCTION OF THE FUTURE GRAVITY SEWER SYSTEM. THE GRAVITY SEWER MAINS AND SEWER LATERALS DESIGNED, APPROVED AND CONSTRUCTED BY THIS PROJECT ARE "DRYLINES" WITH NO PUBLIC CONNECTION PERMITTED TO THE GRAVITY SEWER SYSTEM UNDER THIS PROJECT.

PROPOSED WATER AND SEWER LEGEND:



PBCWUD #XXXX

Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

BY DESCRIPTION

DESCRIPTION

BY BY CHECKED BY

SUPERVISED BY:

CRAVEN • THOMPSON AND ASSOCIATES, INC.

ENGINEERS • PLANNERS • SURVEYORS

3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309

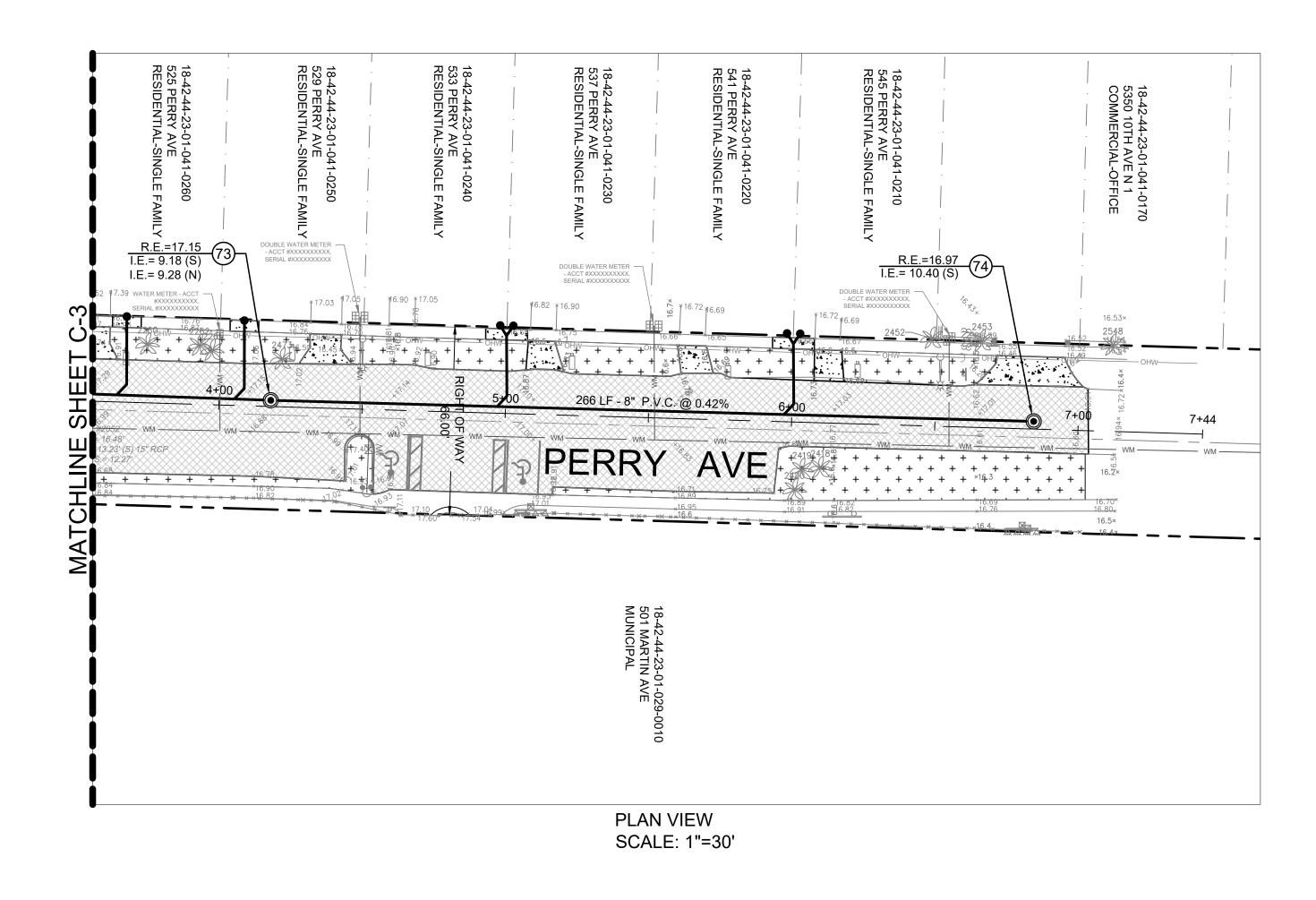
FAX: (954) 739-6409 TEL.: (954) 739-6400

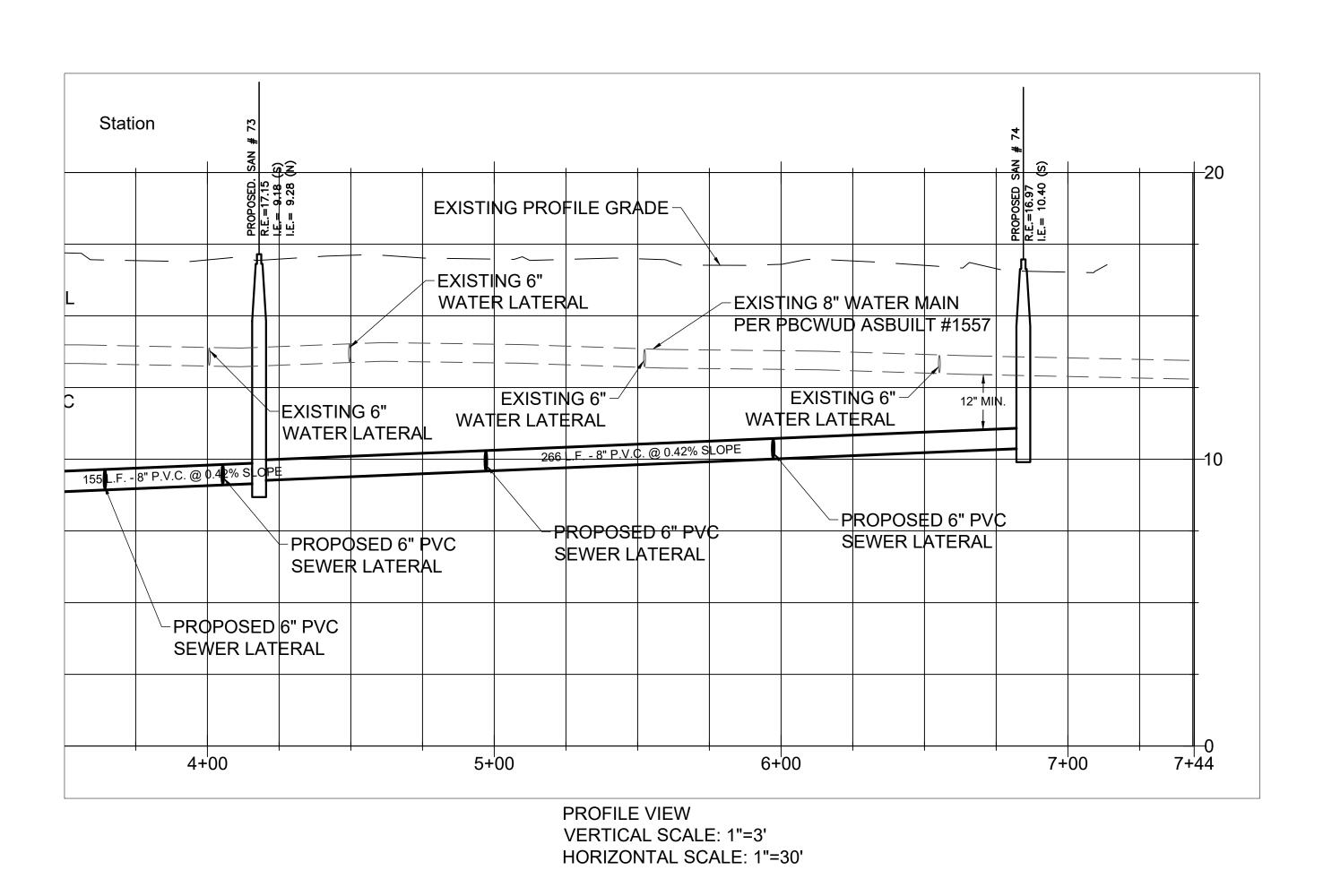
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271

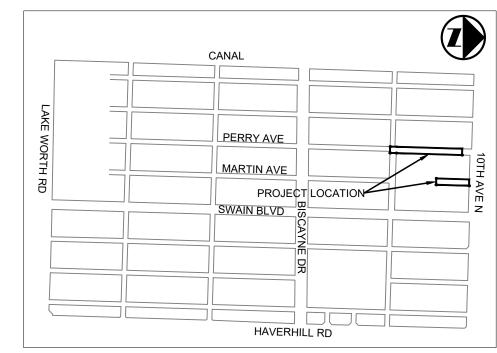
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER NORTH PHASE 3 CITY OF GREENACRES

SANITARY SEWER PLAN

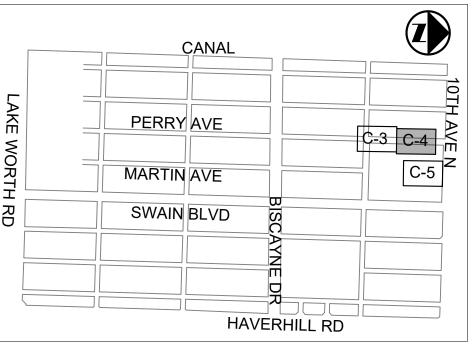






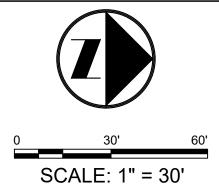
LOCATION MAP

SECTION 23, TOWNSHIP 44S, RANGE 42



KEY MAP

ALL ELEVATIONS SHOWN REFERENCE N.A.V.D. 1988



GENERAL WATER NOTES

1. ALL EXISTING WATER SERVICES TO REMAIN. IF RELOCATION IS REQUIRED IT MUST BE DONE UNDER THE SUPERVISION OF THE PROJECT'S WUD INSPECTOR OR DONE BY PBCWUD PERSONNEL ONLY.

2. ALL WATER SERVICE BRASS FITTINGS ARE REQUIRED TO BE LEAD FREE. 3. ALL EXISITNG PBCWUD FACILITIES (IE. VALVES) TO BE OPERATED BY PBCWUD PERSONNEL ONLY OR BY DIRECTION AND UNDER THE SUPERVISION OF THE PROJECT

1. SEWER LATERALS ARE PUBLICLY OWNED AND MAINTAINED UP TO CLEANOUT AT THE

2. SEWER CLEANOUT MINI-MANHOLES ARE REQUIRED ON ALL CLEANOUTS WITHIN PAVEMENT AND/OR SIDEWALK AREAS.

PBCWUD WASTEWATER NOTE

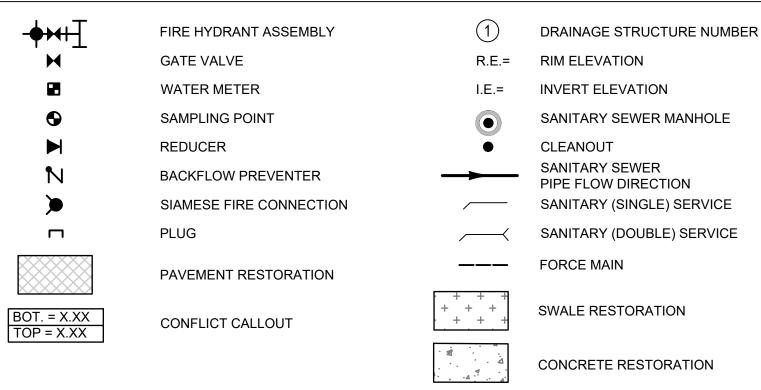
1. ALL GRAVITY SEWER MAINS, MANHOLES AND LATERALS ON THIS PROJECT TO BE CONSTRUCTED PER THE MARCH 2023 PALM BEACH COUNTY WATER UTILITIES

1. IF ANY NEW LANDSCAPE MATERIALS ARE INSTALLED AS PART OF THIS PROJECT THEN SOD ONLY WITH NO SHRUBS AND/OR TREES ARE TO BE INSTALLED WITHIN 5' OF ANY WATER METER AND WITHIN 7.5' OF ANY FIRE HYDRANT. TREES CANNOT BE INSTALLED WITHIN 10' OF A WUD WATER OR FORCE MAIN WITHOUT PRIOR PBCWUD APPROVAL AND THE INSTALLATION OF A ROOT BARRIER. ALSO IF ANY EXISTING TREES ARE LESS THAN 10' MINIMUM OF ANY NEW GRAVITY SEWER MAINS A ROOT BARRIER IS REQUIRED TO BE INSTALLED OR TREE RELOCATED/REMOVED

GRAVITY SEWER AVAILABILTY NOTE:

THIS GRAVITY SEWER SYSTEM IS BEING CONSTRUCTED AT THE CITY OF GREENACRES OWN RISK PENDING DESIGN, APPROVAL AND CONSTRUCTION OF THE FUTURE GRAVITY SEWER SYSTEM. THE GRAVITY SEWER MAINS AND SEWER LATERALS DESIGNED, APPROVED AND CONSTRUCTED BY THIS PROJECT ARE "DRYLINES" WITH NO PUBLIC CONNECTION PERMITTED TO THE GRAVITY SEWER SYSTEM UNDER THIS PROJECT.

PROPOSED WATER AND SEWER LEGEND:



EXISTING LEGEND:

	IIIVO ELOLIVO.				
\leftarrow	ANCHOR	ф ;	☐ METAL LIGHT POLE	\Leftrightarrow	TRAFFIC POLE
Î	BLOW-OFF VALVE		MONITORING WELL		TRAFFIC PULL BOX
CB.	CATCH BASIN	0	PIPE	A	TRANSFORMER PAD
\Rightarrow	CONCRETE LIGHT POLE		PARKING LIGHT 2 SQUARE	TRANS	
\boxtimes	CONCRETE POST	S	SANITARY MANHOLE	•	WATER BLOW-OFF
	CONCRETE POWER POLE	⊡	SIGN	\bigvee_{W}	WATER VALVE
	CURB INLET	₫	SPOT-FLOOD LIGHT		WOOD POWER POLE
\$=	ELECTRICAL OUTLET	со⊙	SANITARY SEWER CLEAN OUT	———ОНW——	OVER HEAD WIRES
	ELECTRICAL PANEL	(D)	STORM MANHOLE	———TOB——	TOP OF BANK
	ELECTRICAL PULL BOX	\bigcirc	TELEPHONE MANHOLE	TOE	TOE OF SLOPE
E	ELECTRICAL MANHOLE	⊡ TELE	TELEPHONE PEDESTAL	WM	WATER MAIN
	GAS MARKER		TELEPHONE PULL BOX		GUARDRAIL
	HEADWALL				NON-VEHICULAR ACCESS LINE

PBCWUD #XXXX

Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

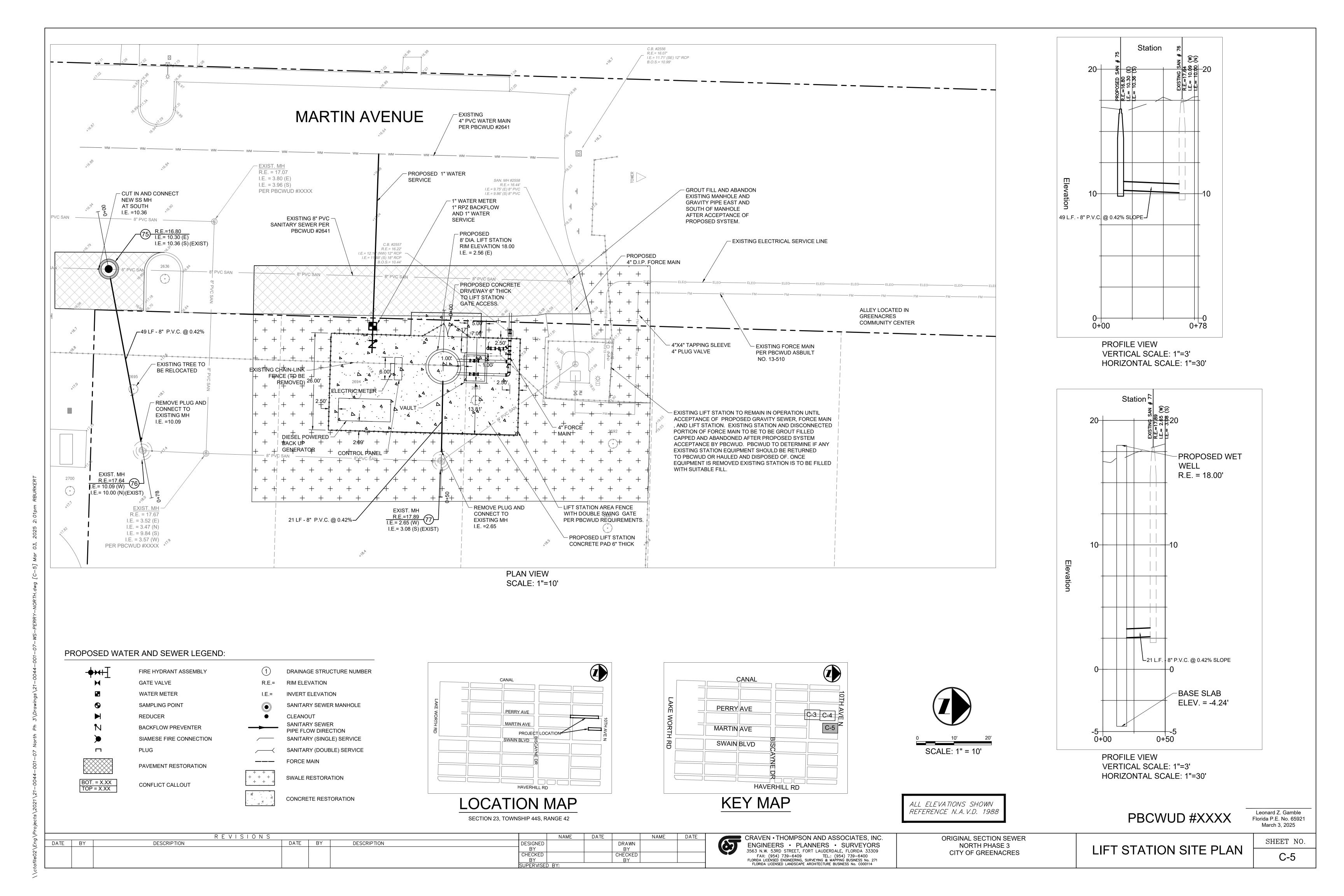
REVISIONS NAME DESIGNED BY CHECKED DRAWN BY CHECKED DATE BY DESCRIPTION DESCRIPTION DATE

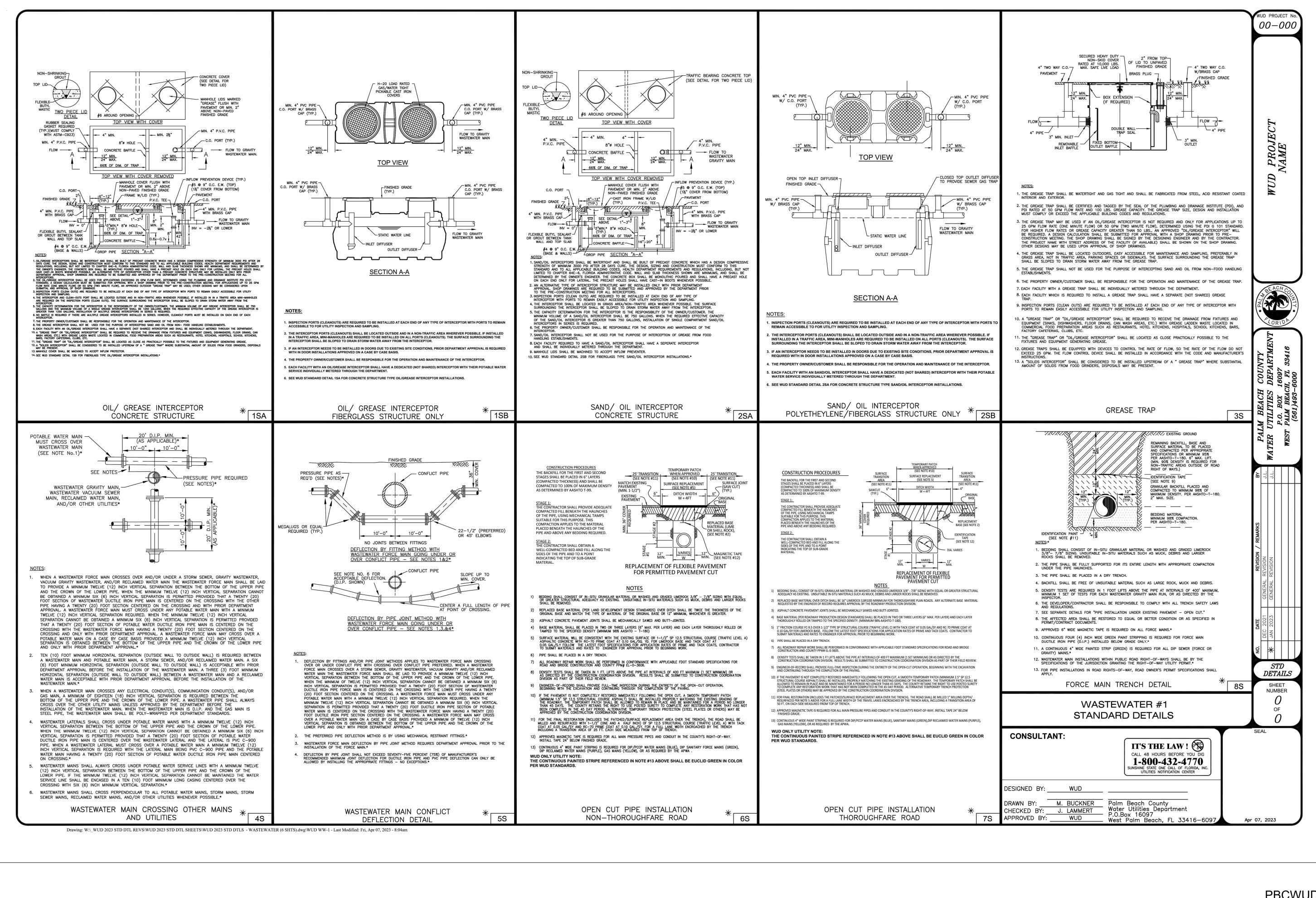
CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 FAX: (954) 739–6409 TEL.: (954) 739–6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER NORTH PHASE 3 CITY OF GREENACRES

SANITARY SEWER PLAN

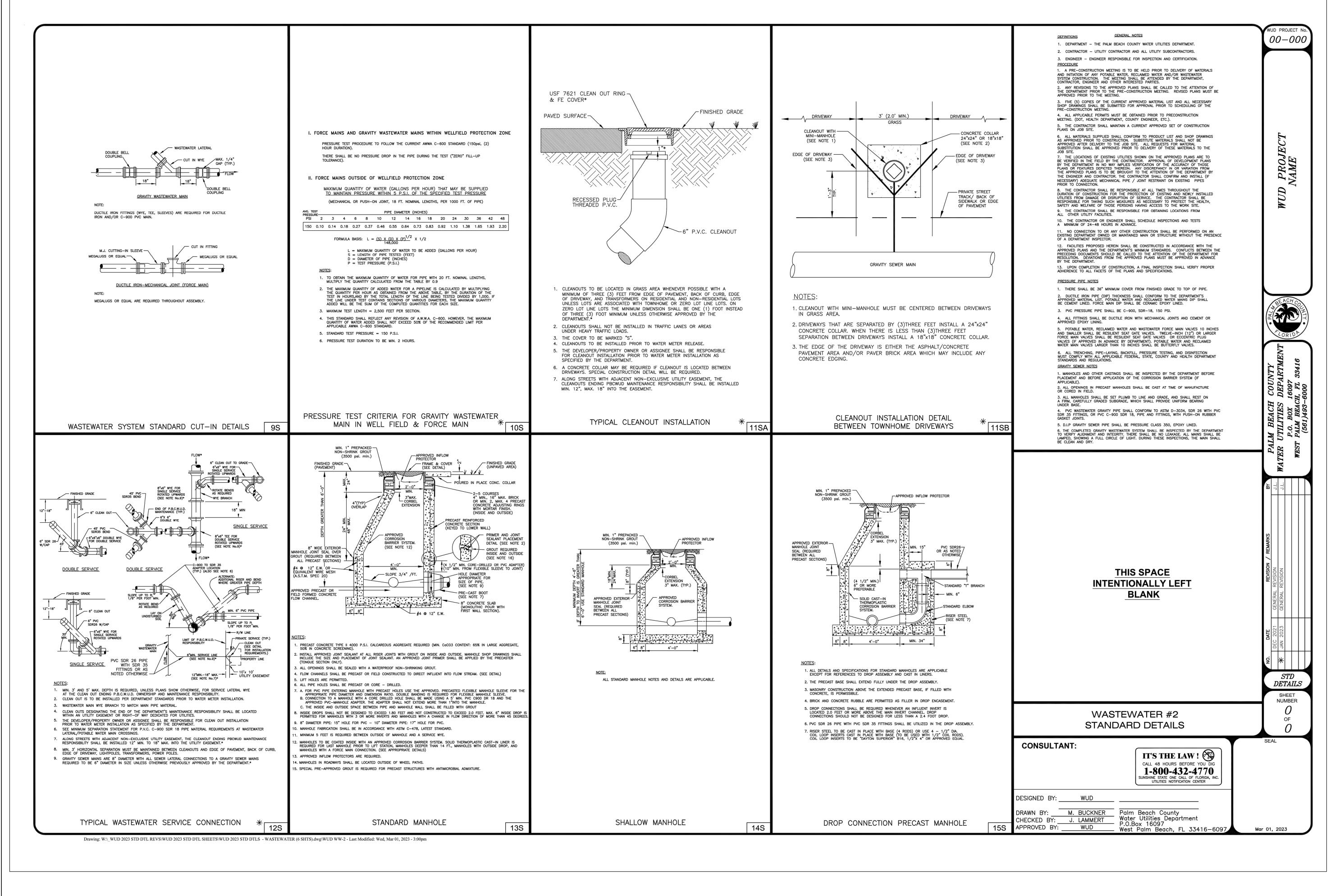
SHEET NO. C-4





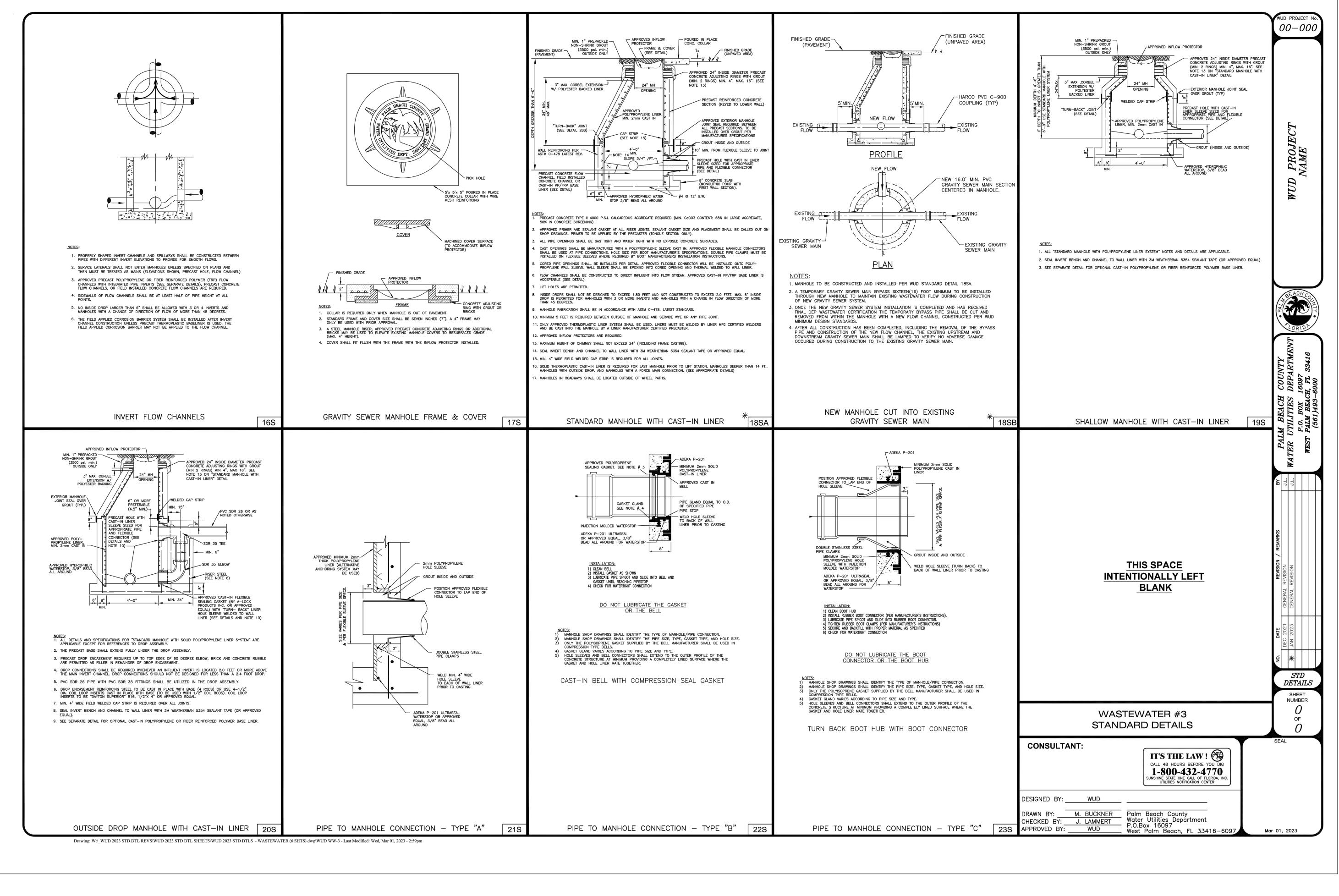
Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS DATE NAME CRAVEN • THOMPSON AND ASSOCIATES, INC. ORIGINAL SECTION SEWER WASTEWATER STANDARD SHEET NO. DESCRIPTION DATE BY DATE DESCRIPTION DESIGNED DRAWN ENGINEERS • PLANNERS • SURVEYORS NORTH PHASE 2 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 CITY OF GREENACRES CHECKED CHECKED C-6 FAX: (954) 739-6409 TEL.: (954) 739-6400 **DETAILS** FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114



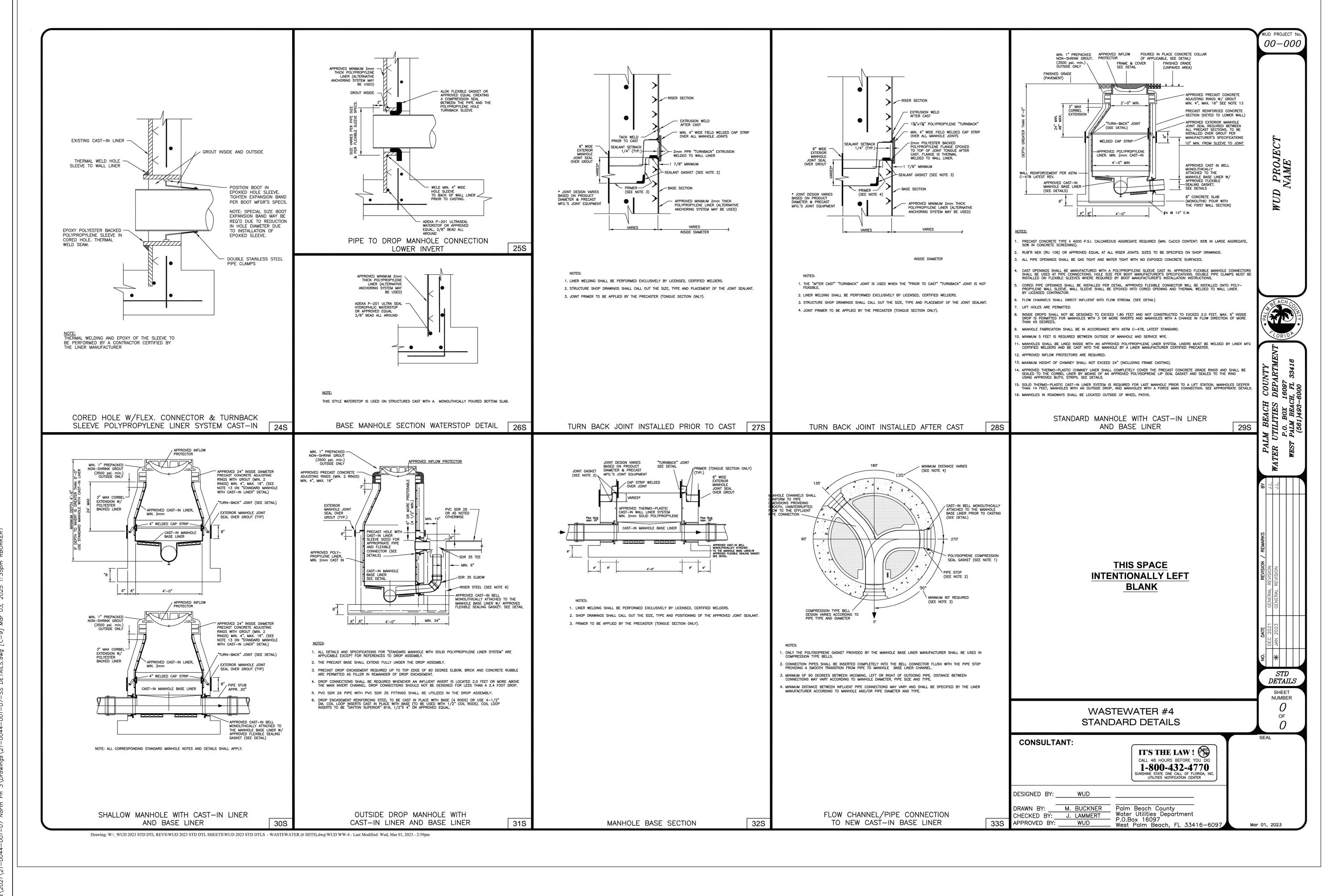
Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS NAME CRAVEN • THOMPSON AND ASSOCIATES, INC. ORIGINAL SECTION SEWER WASTEWATER STANDARD SHEET NO. DATE BY DESCRIPTION DATE DESCRIPTION DESIGNED DRAWN ENGINEERS • PLANNERS • SURVEYORS NORTH PHASE 2 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 CITY OF GREENACRES CHECKED CHECKED **DETAILS** C-7 FAX: (954) 739-6409 TEL.: (954) 739-6400 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114



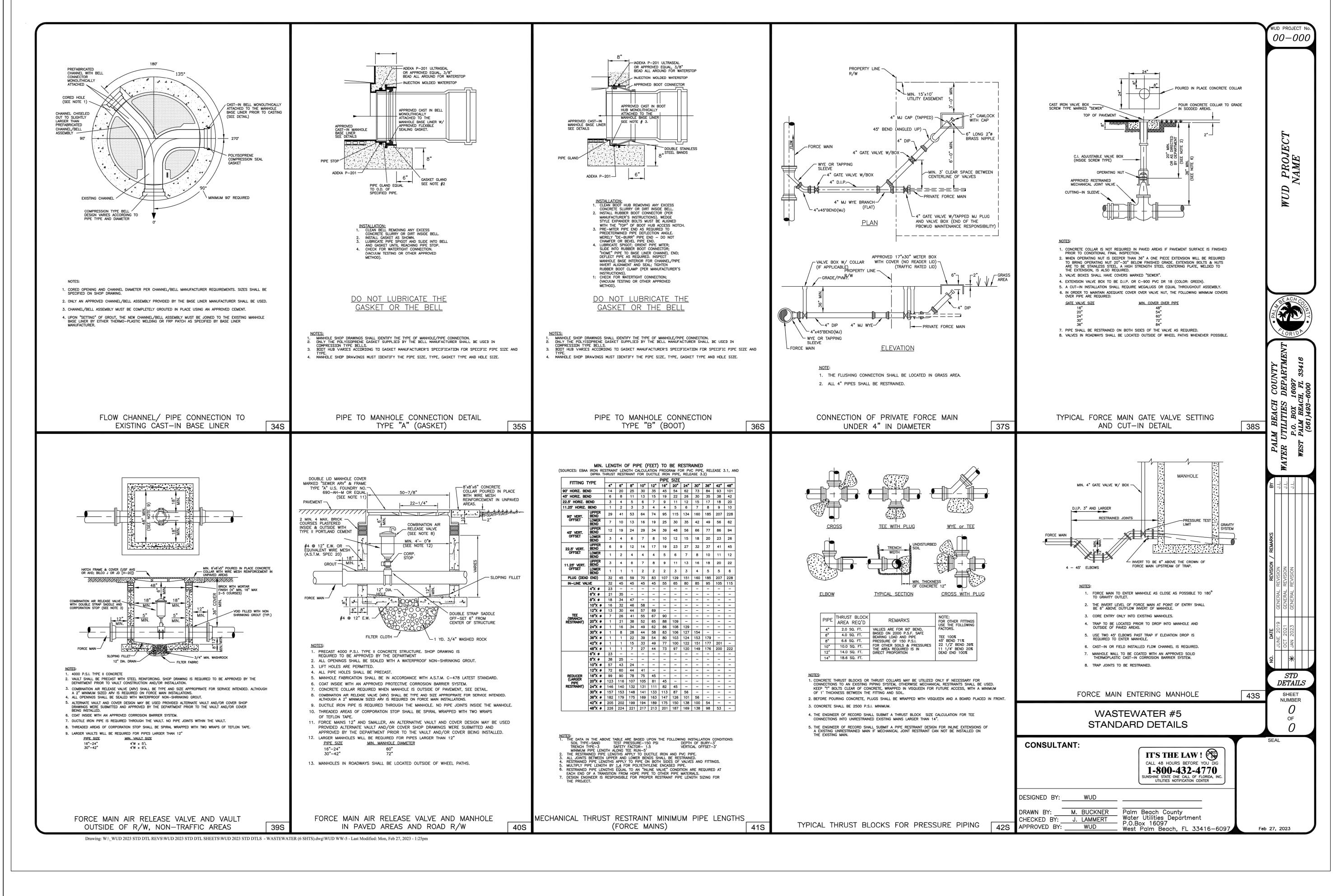
Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS DATE NAME NAME CRAVEN • THOMPSON AND ASSOCIATES, INC. **ORIGINAL SECTION SEWER** WASTEWATER STANDARD SHEET NO. DATE BY DESCRIPTION DATE DESCRIPTION **DESIGNED** DRAWN ENGINEERS • PLANNERS • SURVEYORS NORTH PHASE 2 BY CHECKED 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 CITY OF GREENACRES CHECKED FAX: (954) 739-6409 TEL.: (954) 739-6400 **DETAILS** C-8 FAX: (954) /39-6409 IEL.: (954) /39-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114



Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS NAME CRAVEN • THOMPSON AND ASSOCIATES, INC. **ORIGINAL SECTION SEWER** WASTEWATER STANDARD SHEET NO. DATE BY DESCRIPTION DATE DESCRIPTION DESIGNED DRAWN ENGINEERS • PLANNERS • SURVEYORS NORTH PHASE 2 BY CHECKED 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 CITY OF GREENACRES CHECKED C-9 FAX: (954) 739-6409 TEL.: (954) 739-6400 **DETAILS** FAX: (934) 739-6409
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114



Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS DATE NAME DATE BY DESCRIPTION DATE DESCRIPTION DESIGNED DRAWN CHECKED CHECKED

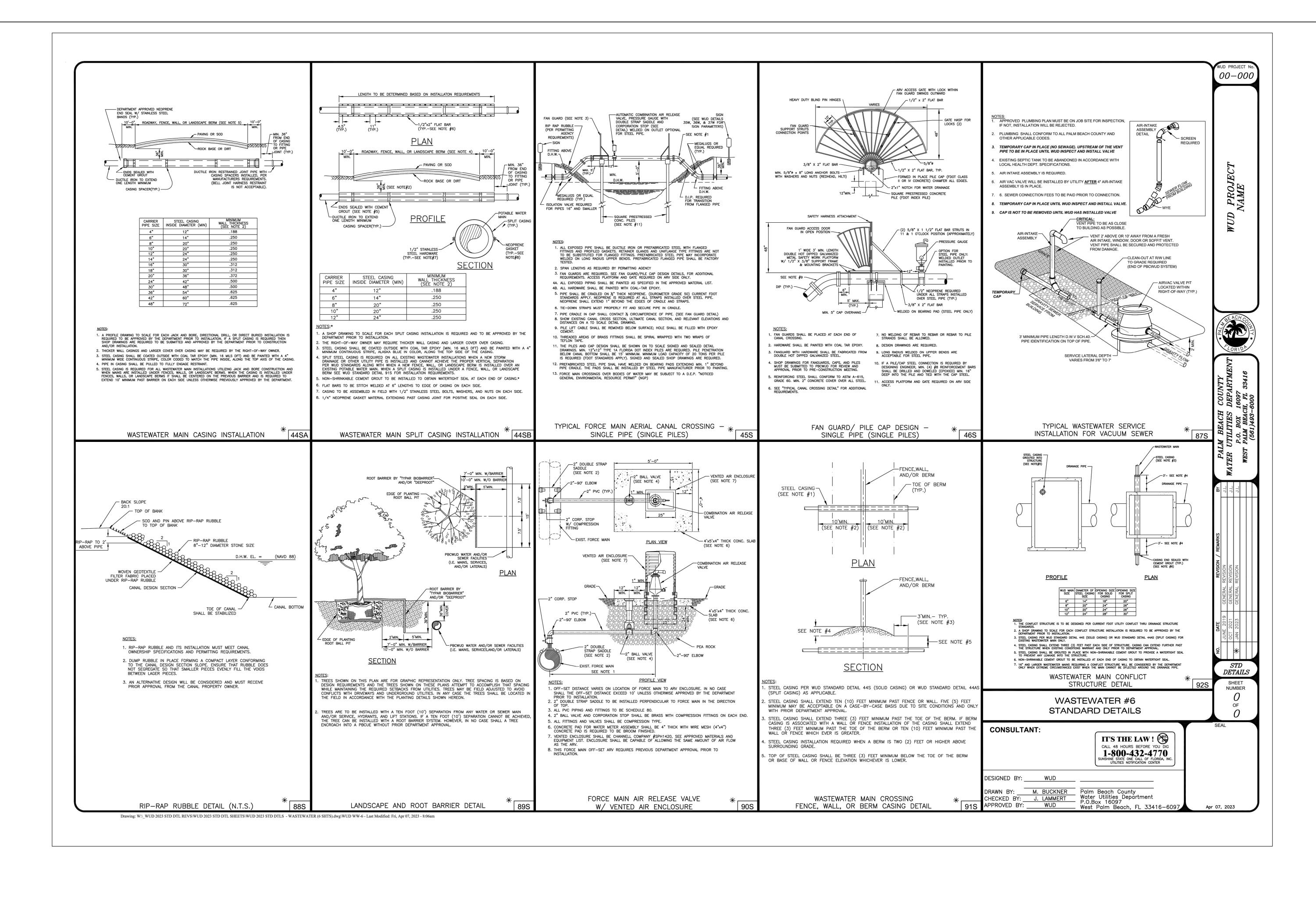
CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 FAX: (954) 739-6409 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

TEL.: (954) 739-6400

ORIGINAL SECTION SEWER NORTH PHASE 2 CITY OF GREENACRES

WASTEWATER STANDARD **DETAILS**

SHEET NO. C-10



Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

REVISIONS

DATE BY DESCRIPTION

DESCRIPTION

DESCRIPTION

BY BY CHECKED BY SUPERVISED BY:

CRAVEN • THOMPSON AND ASSOCIATES, INC.

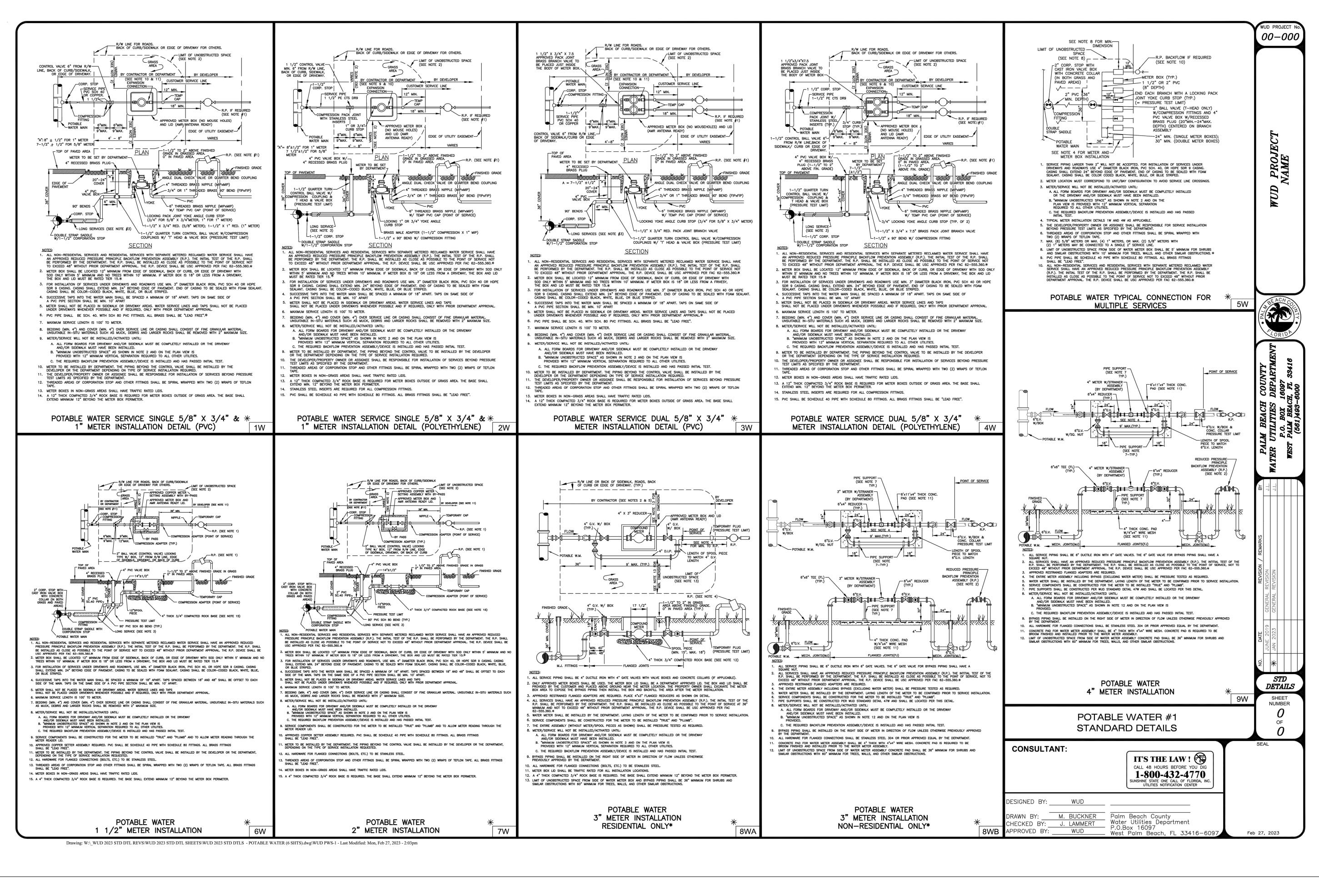
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309

FAX: (954) 739-6409

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271

FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER NORTH PHASE 2 CITY OF GREENACRES WASTEWATER STANDARD DETAILS



March 3, 2025
SHEET NO

Leonard Z. Gamble Florida P.E. No. 65921

REVISIONS

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DESIGNED BY CHECKED BY CHECKED BY SUPERVISED BY:

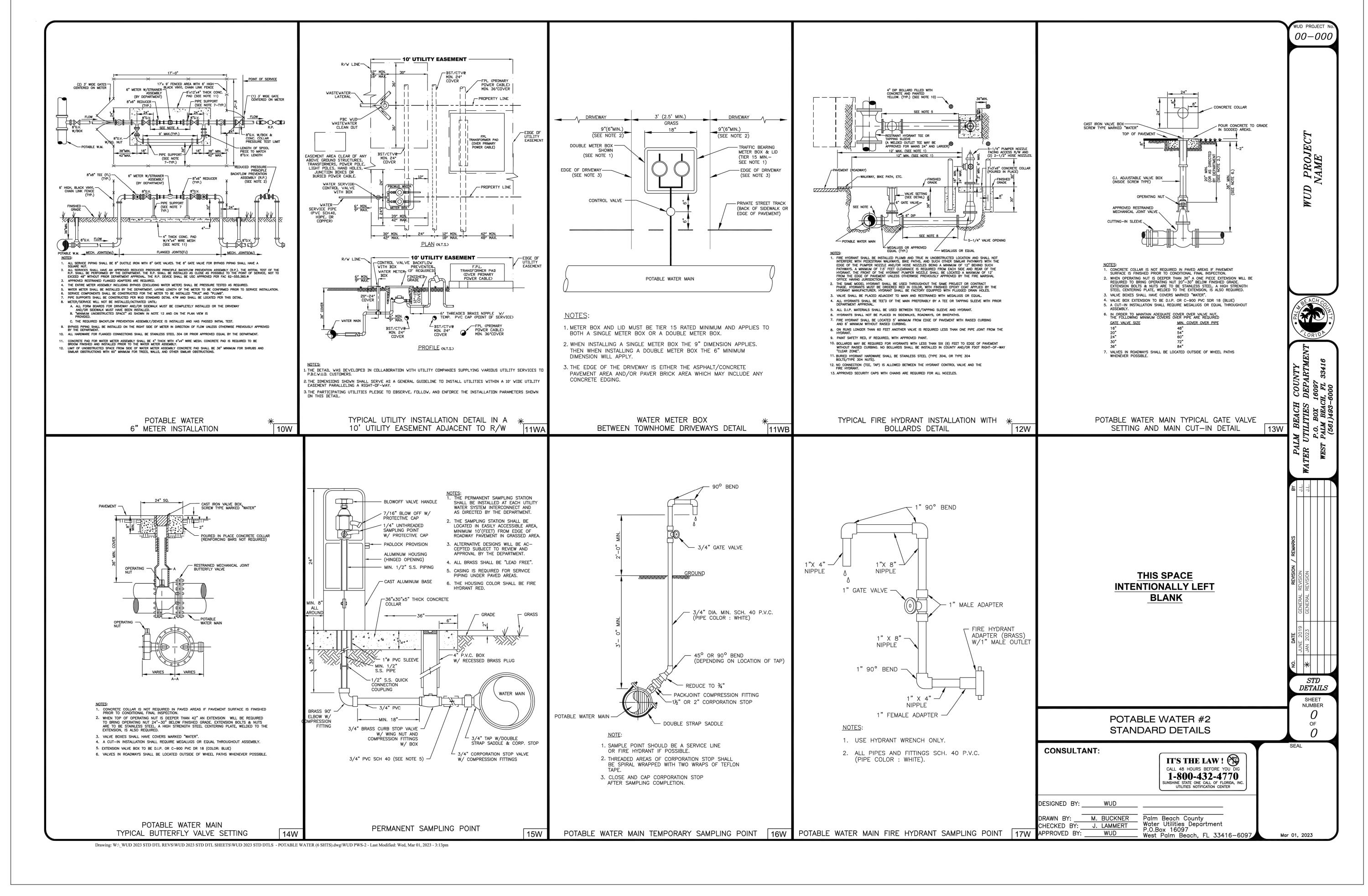
NAME DATE

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739–6409 TEL.: (954) 739–6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER
NORTH PHASE 3
CITY OF GREENACRES

WATER STANDARD DETAILS

SHEET NO.



Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

CRAVEN • THOMPSON AND ASSOCIATES, INC.

ENGINEERS • PLANNERS • SURVEYORS

3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309

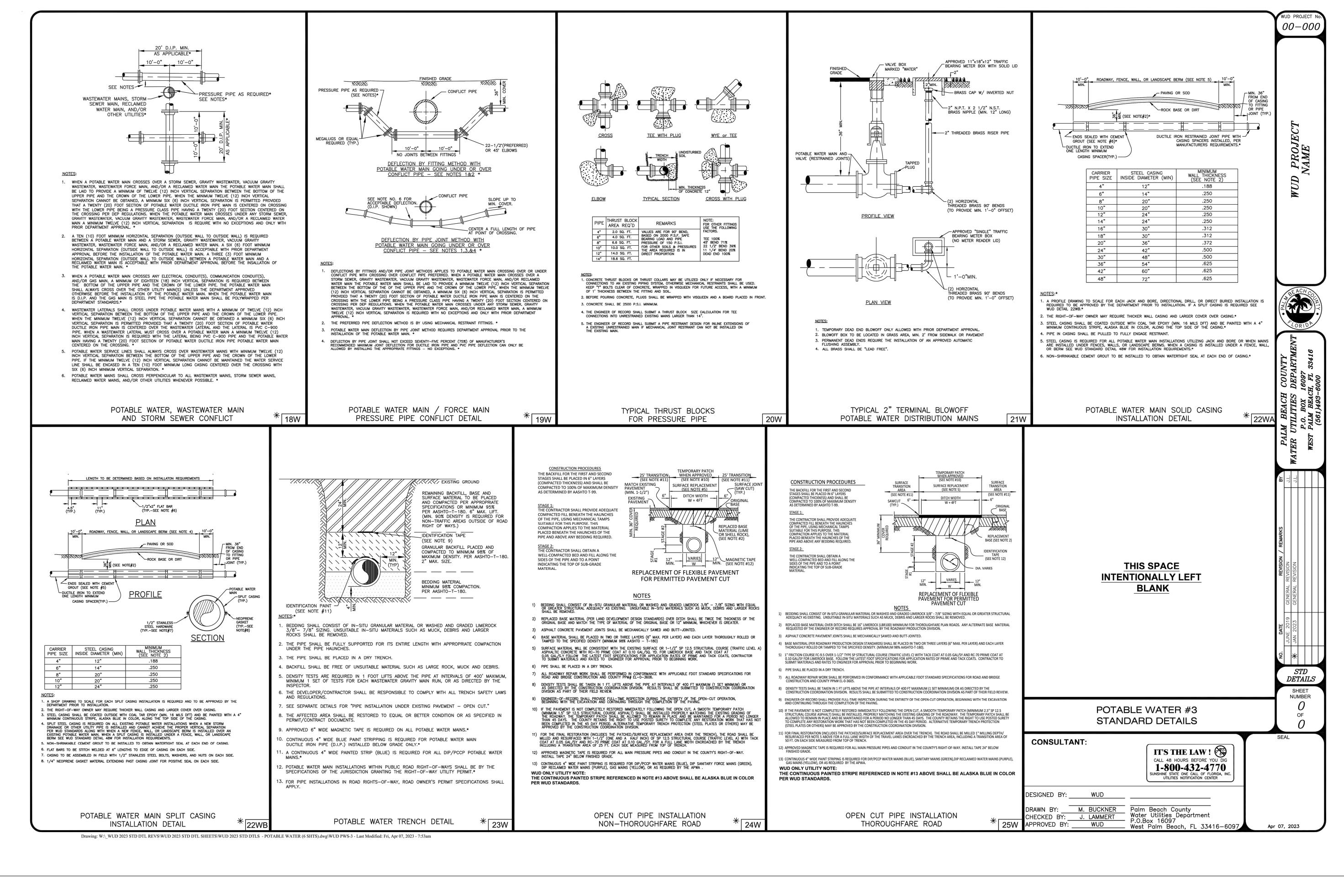
FAX: (954) 739-6400

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271

FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER
NORTH PHASE 3
CITY OF GREENACRES

WATER STANDARD DETAILS

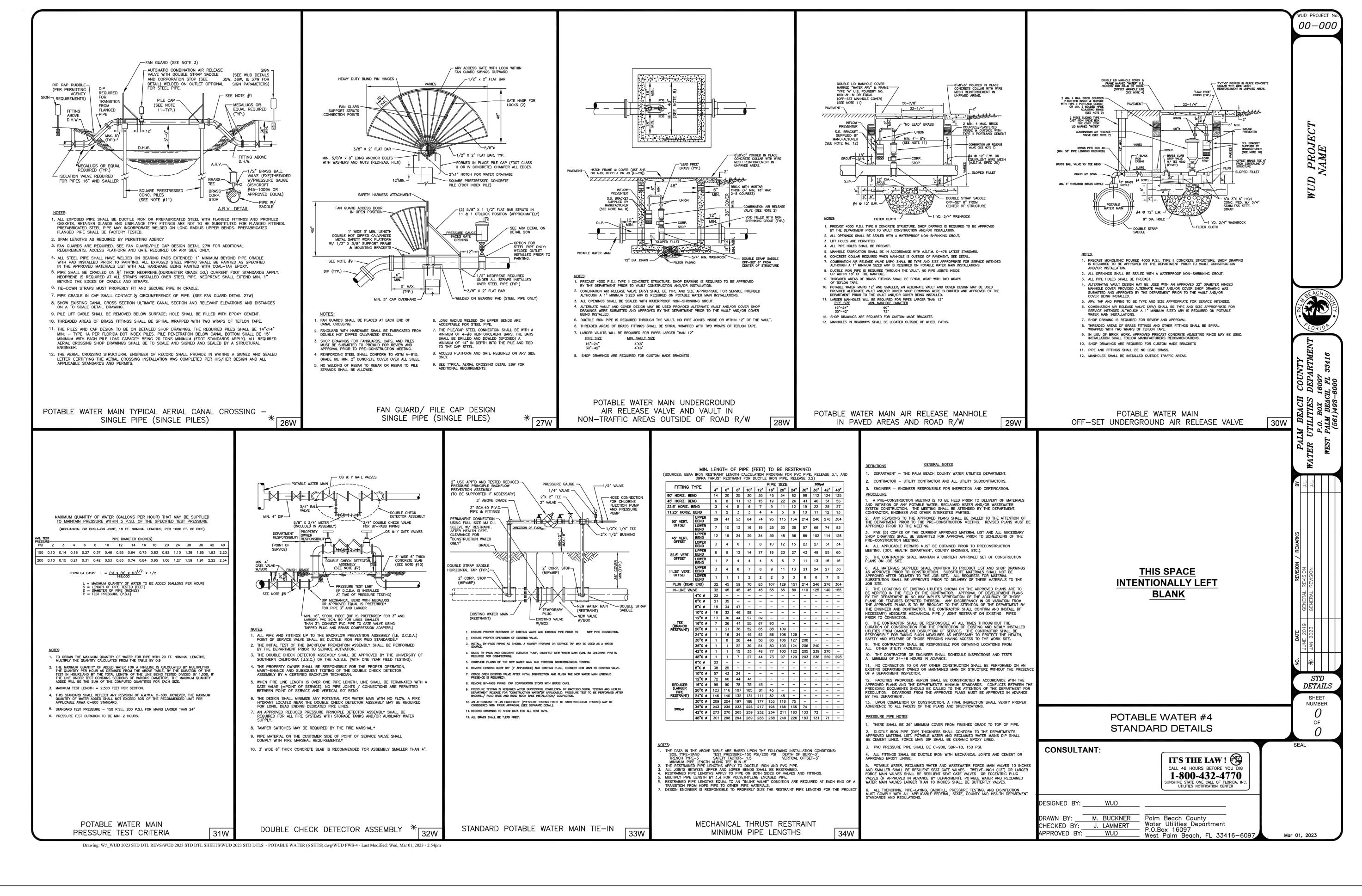


SHEET NO.

Leonard Z. Gamble Florida P.E. No. 65921

March 3, 2025

REVISIONS NAME CRAVEN • THOMPSON AND ASSOCIATES, INC. ORIGINAL SECTION SEWER DESCRIPTION DATE BY DATE DESCRIPTION DESIGNED DRAWN ENGINEERS • PLANNERS • SURVEYORS NORTH PHASE 3 WATER STANDARD DETAILS 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 CITY OF GREENACRES CHECKED CHECKED C-14 FAX: (954) 739-6409 TEL.: (954) 739-6400 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114



PBCWUD #XXXX

Leonard Z. Gamble
Florida P.E. No. 65921
March 3, 2025

REVISIONS

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DESIGNED DESCRIPTION

BY BY BY

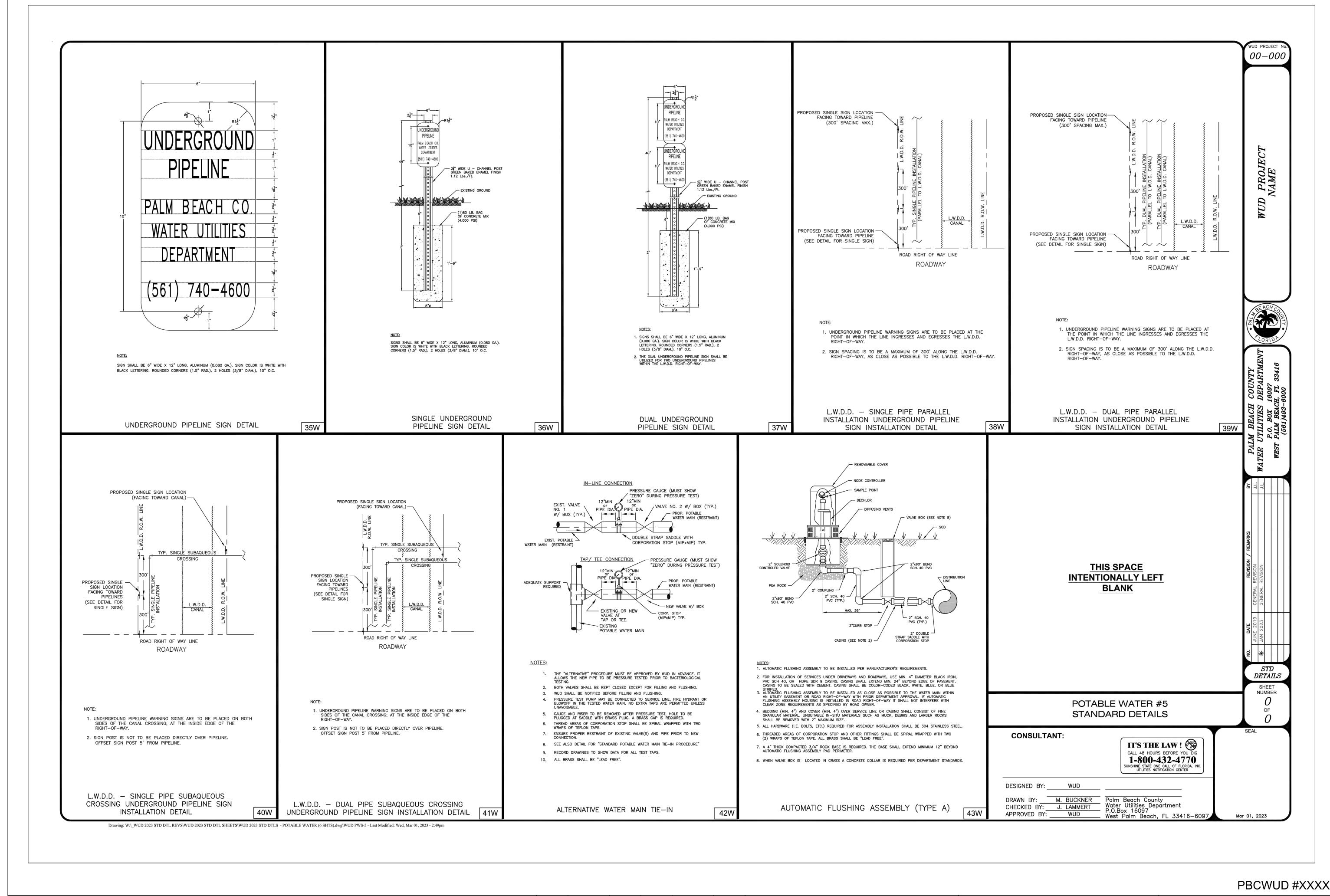
CHECKED BY

SUPERVISED BY:

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER NORTH PHASE 3 CITY OF GREENACRES

WATER STANDARD DETAILS



REVISIONS NAME DATE BY DESCRIPTION DATE DESCRIPTION DESIGNED DRAWN BY CHECKED CHECKED

CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 FAX: (954) 739-6409 TEL.: (954) 739-6400 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

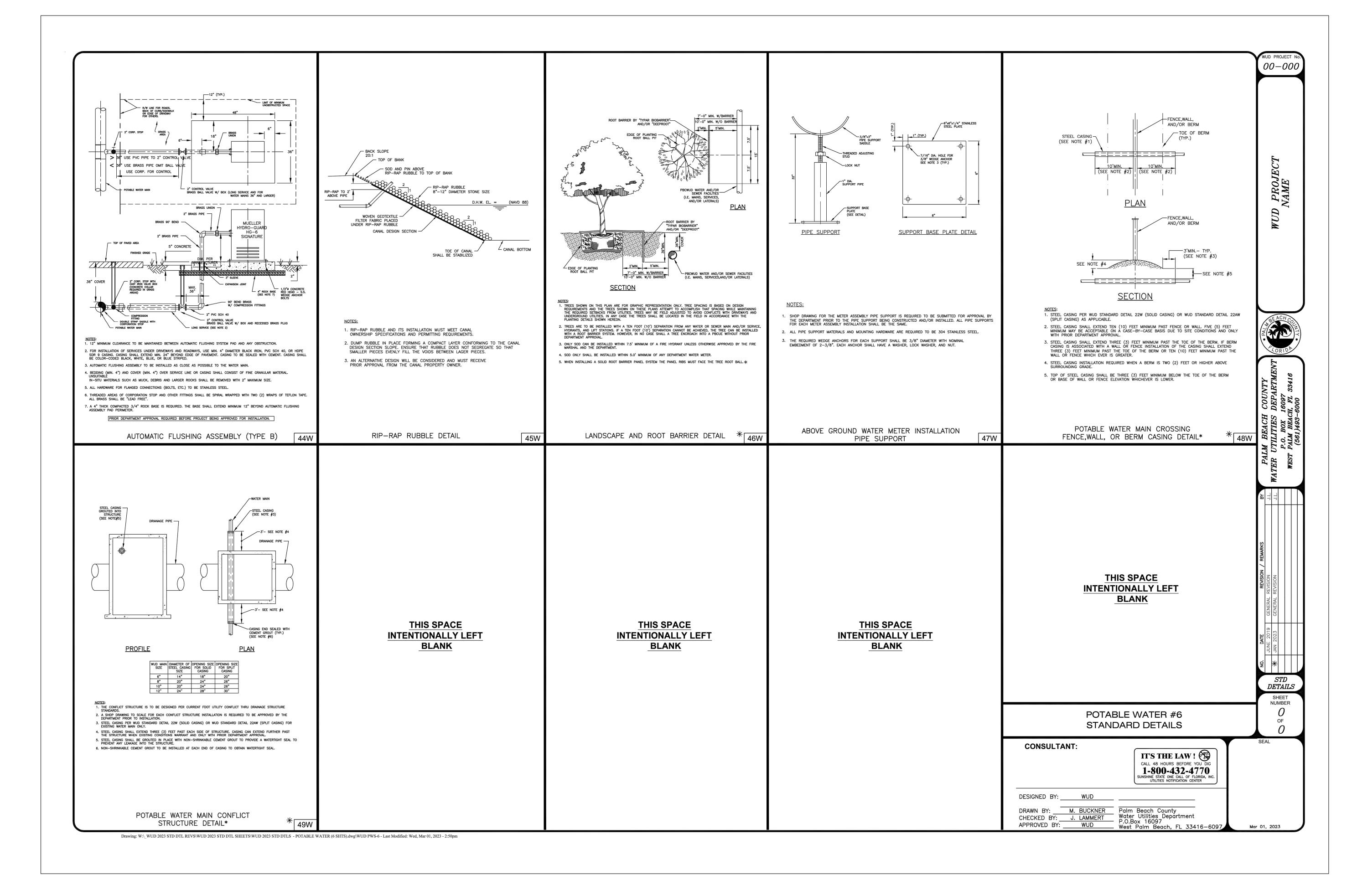
ORIGINAL SECTION SEWER NORTH PHASE 3 CITY OF GREENACRES

WATER STANDARD DETAILS

SHEET NO.

Leonard Z. Gamble Florida P.E. No. 65921

March 3, 2025



PBCWUD #XXXX

Leonard Z. Gamble
Florida P.E. No. 65921

March 3, 2025

REVISIONS

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DATE BY DESCRIPTION

DESCRIPTION

BY DESCRIPTION

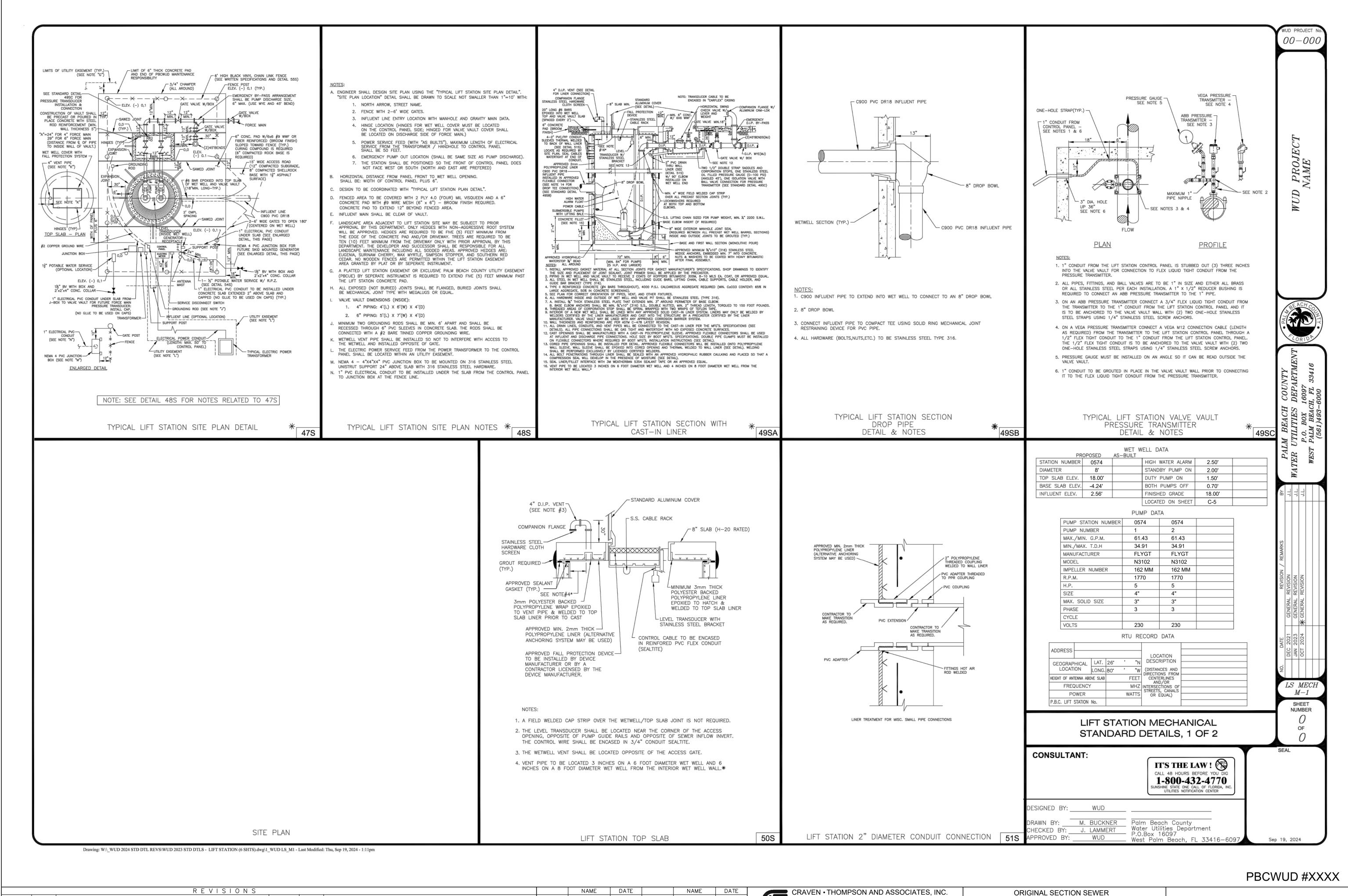
CHECKED BY CHECKED BY

SUPERVISED BY:

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER NORTH PHASE 3 CITY OF GREENACRES

WATER STANDARD DETAILS



LIFT STATION DETAILS

DRAWN

CHECKED

DATE BY

DESCRIPTION

DATE

DESCRIPTION

DESIGNED

BY CHECKED

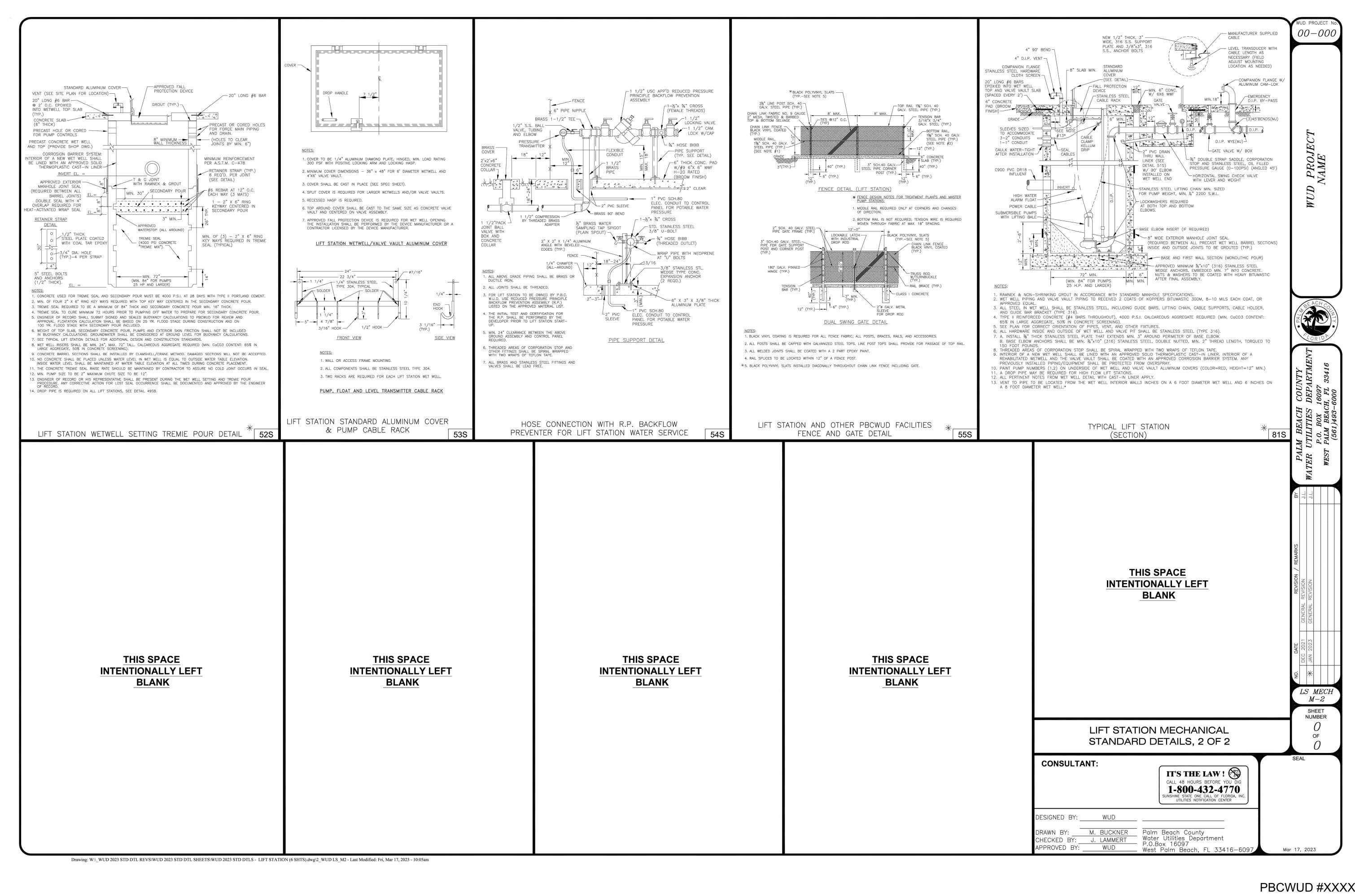
ENGINEERS • PLANNERS • SURVEYORS 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 FAX: (954) 739-6409 TEL.: (954) 739-6400 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

NORTH PHASE 3 CITY OF GREENACRES

SHEET NO.

Leonard Z. Gamble Florida P.E. No. 65921

March 19, 2025



DRAWN BY

CHECKED

DESIGNED BY CHECKED

REVISIONS

DATE

DESCRIPTION

DESCRIPTION

DATE BY

Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

SHEET NO.

C-19

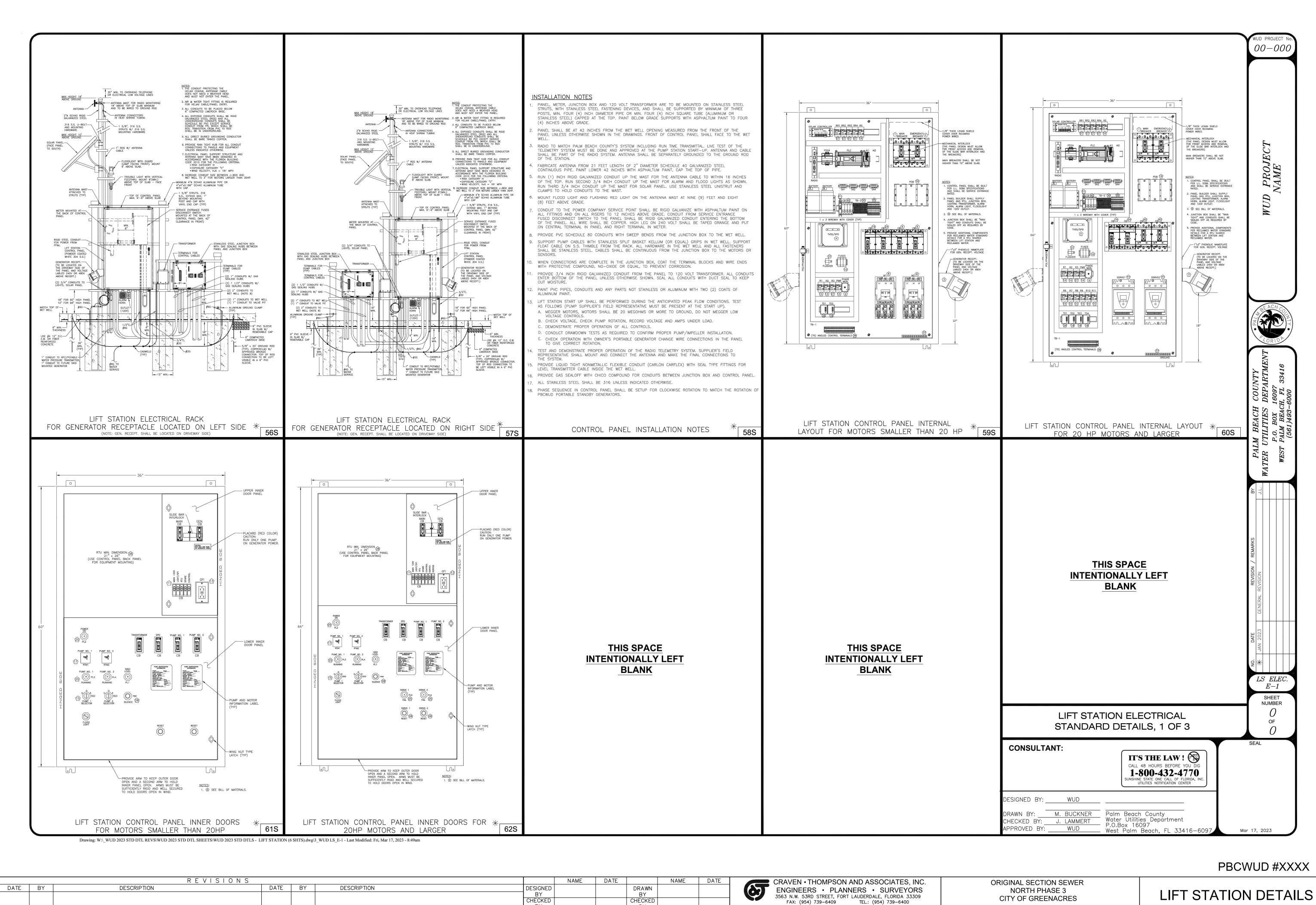
CRAVEN • THOMPSON AND ASSOCIATES, INC.

ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. 0000114

ORIGINAL SECTION SEWER
NORTH PHASE 3
CITY OF GREENACRES

LIFT STATION DETAILS

LIFT STATION DETAILS



3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309

FAX: (954) /39-6409 IEL.: (954) /39-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

TEL.: (954) 739-6400

FAX: (954) 739-6409

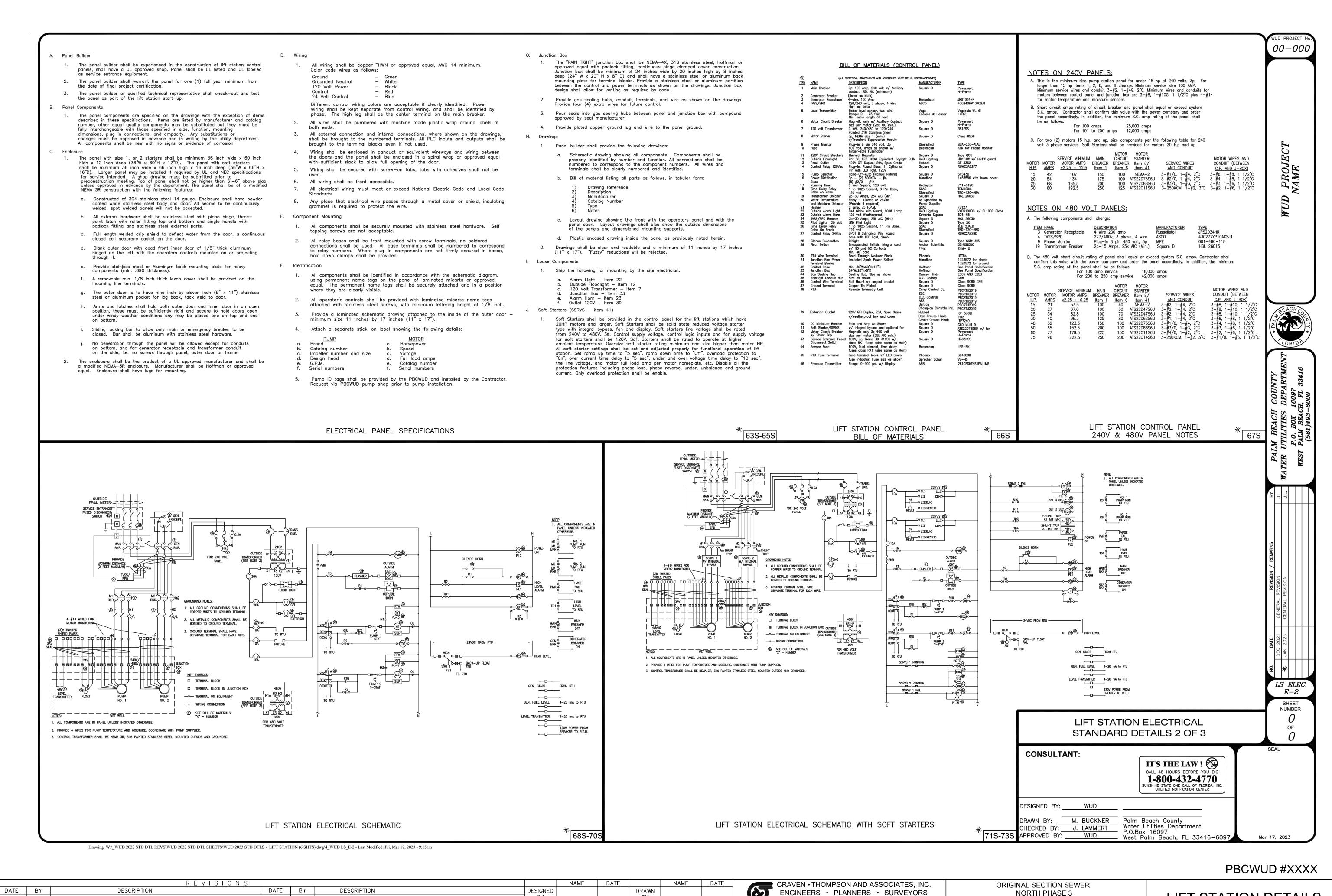
CITY OF GREENACRES

Leonard Z. Gamble Florida P.E. No. 65921 March 3, 2025

SHEET NO.

C-20

LIFT STATION DETAILS



3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

TEL.: (954) 739-6400

FAX: (954) 739-6409

CITY OF GREENACRES

BY CHECKED

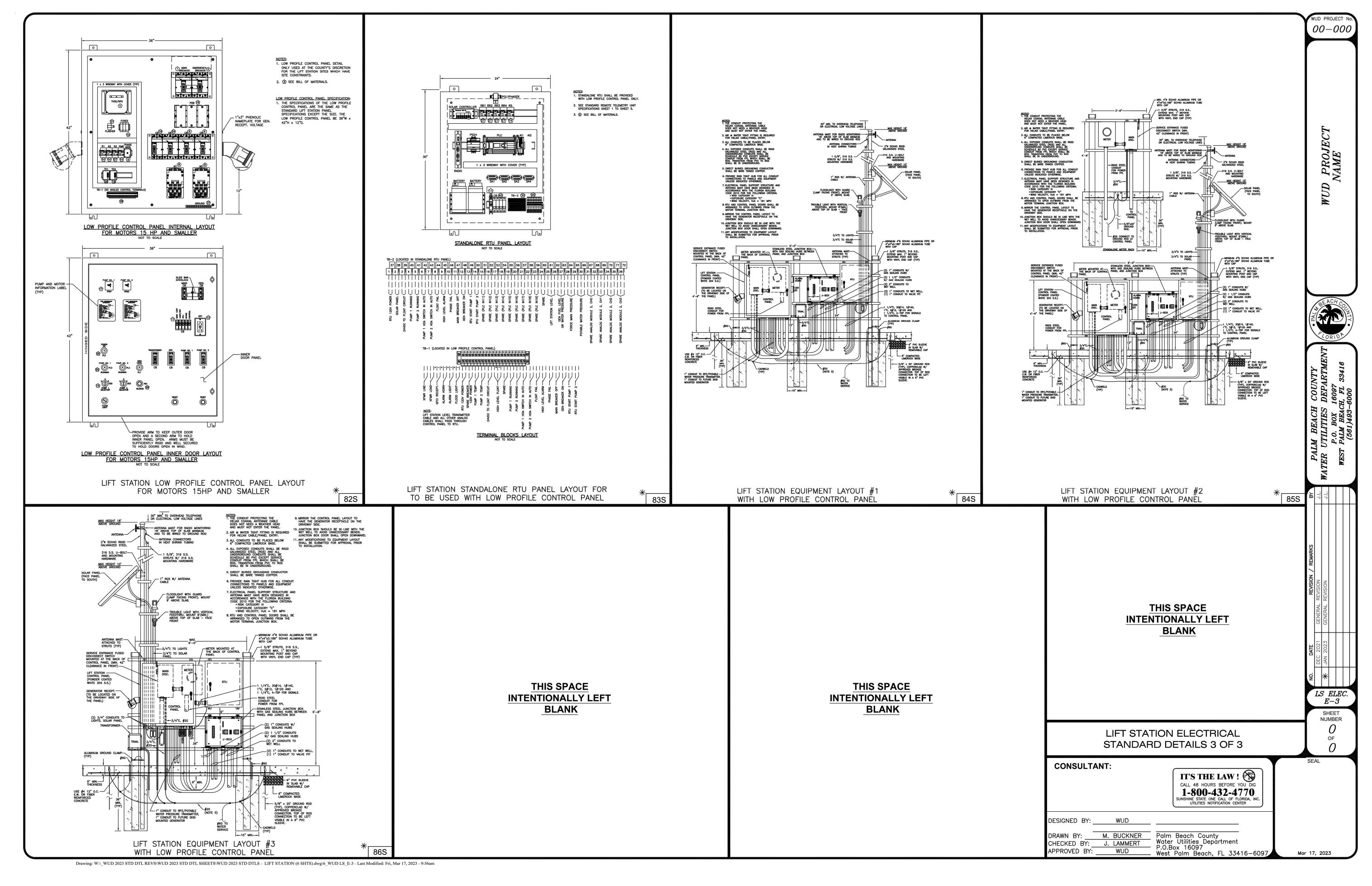
CHECKED

LIFT STATION DETAILS

Leonard Z. Gamble Florida P.E. No. 65921

March 3, 2025

SHEET NO.



Florida P.E. No. 65921 March 3, 2025

Leonard Z. Gamble

DESIGNED
BY
CHECKED
BY
SUPERVISED BY:

NAME

REVISIONS

DATE

DESCRIPTION

DESCRIPTION

DATE BY

CRAVEN • THOMPSON AND ASSOCIATES, INC.

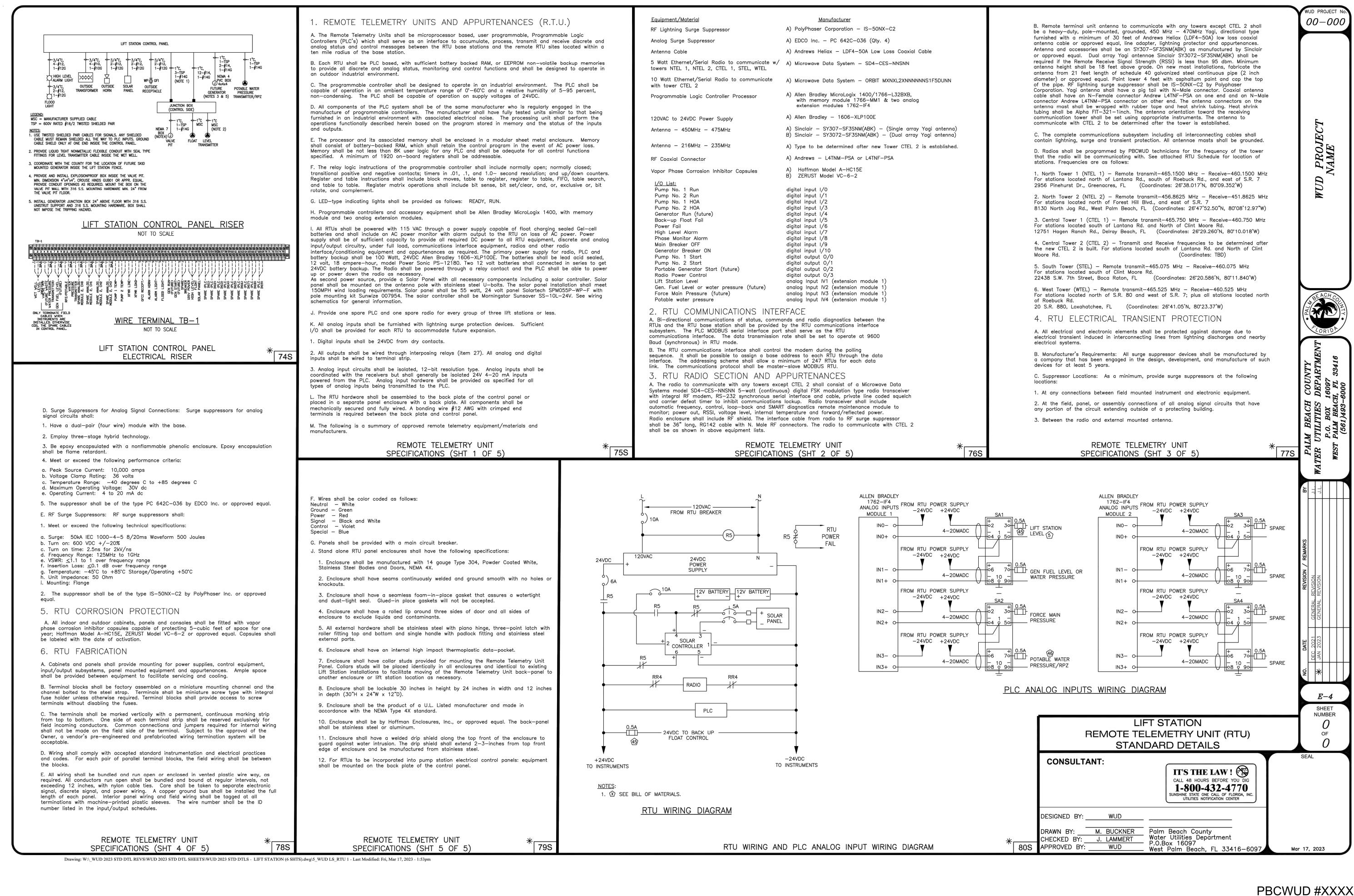
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309

FAX: (954) 739-6409

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

ORIGINAL SECTION SEWER
NORTH PHASE 3
CITY OF GREENACRES

LIFT STATION DETAILS



PBCVVUD #XXXX March 3, 2025

SHEET NO.

Leonard Z. Gamble Florida P.E. No. 65921

DESCRIPTION DATE **DESCRIPTION** DESIGNED DRAWN ENGINEERS • PLANNERS • SURVEYORS NORTH PHASE 3 LIFT STATION DETAILS BY CHECKED BY 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 CITY OF GREENACRES CHECKED FAX: (954) 739-6409 TEL.: (954) 739-6400 FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

CRAVEN • THOMPSON AND ASSOCIATES, INC.

ORIGINAL SECTION SEWER

DATE

NAME

REVISIONS

DATE BY