W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

BID SET

DATE OF ISSUE: 04/15/2026

Public Works Department
1481 WEST 13TH STREET
Riviera Beach, Florida 33404
Phone: 561.845.4080

CITY COUNCIL

DOUGLAS LAWSON	MAYOR
BRUCE GUYTON	COUNCILMAN DISTRICT 1
KASHAMBA MILLER ANDERSON	COUNCILWOMAN DISTRICT 2
SHIRLEY D. LANIER	COUNCILWOMAN DISTRICT 3
DR. GLEN SPIRITIS	COUNCILWOMAN DISTRICT 4
FERCELLA DAVIS PANIER	COUNCILMAN DISTRICT 5

ADMINISTRATION/STAFF

JONATHAN E. EVANS	CITY MANAGER
DEIRDRE JACOBS	ASSISTANT CITY MANAGER
DEBRAH HALL	ACTING CITY CLERK
DAWN WYNN	CITY ATTORNEY

PROJECT LOCATIONS

SECTION 28, TOWNSHIP 42S, RANGE 43E

LOCATION MAP

N.T.S

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

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PROJECT NUMBER	20-221.022
CLIENT PROJECT NUMBER	
DRAWING NUMBER	COV-1
	01 OF 23

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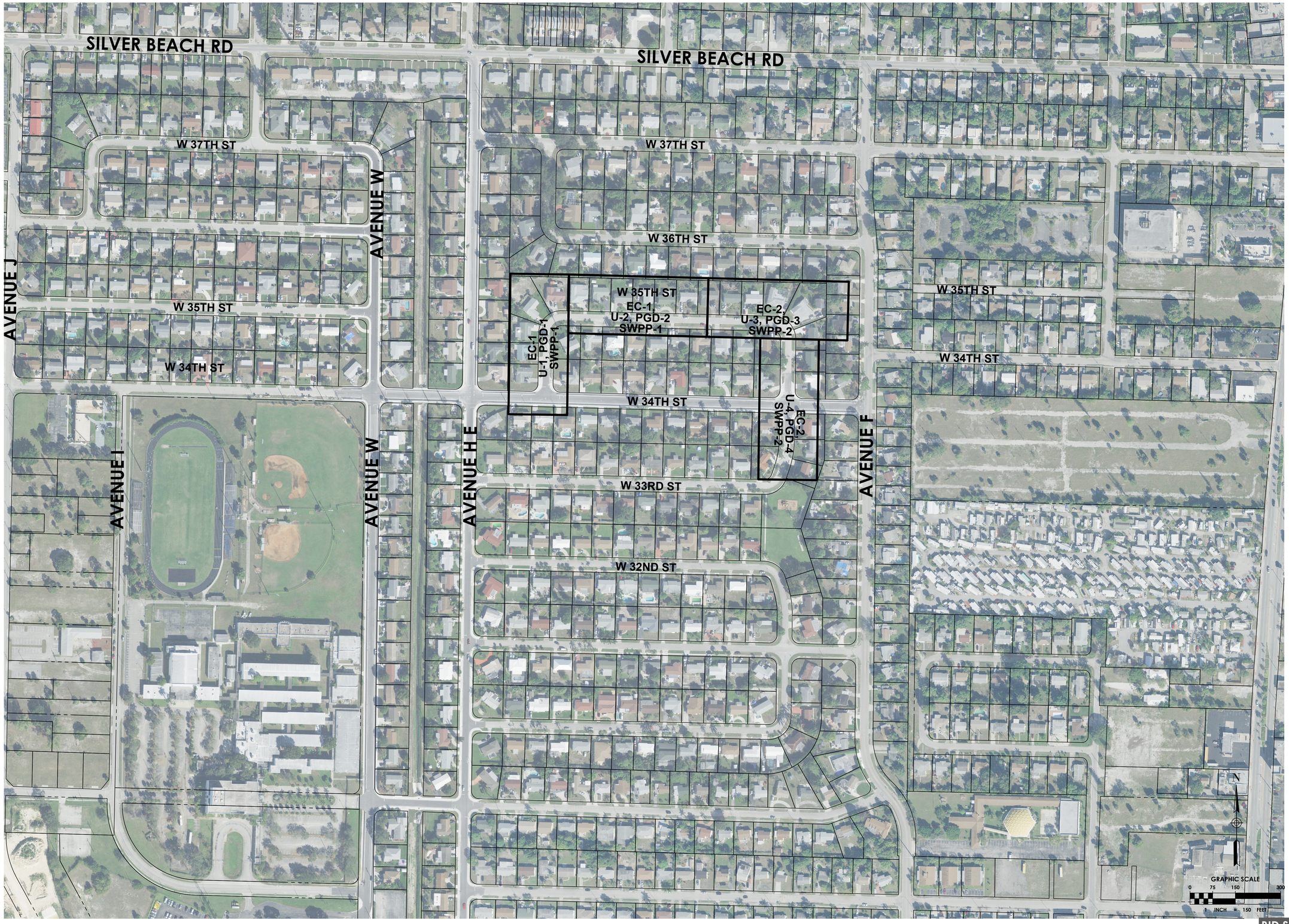
Plot Date: 4/24/2026 1:53:07 PM Username: jigoldberg Layout Name: COV-1
Folder Path: V:\Projects\2020\20-221.022 - W 34th St & W 35th St CDBG Improvements\Design\CAD 35st\Sheets Filename: 20-221.022 Cover Sheet.dwg



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CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

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RIVIERA BEACH, FL

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VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

KEY SHEET

DRAWING NUMBER
KEY-1
02 OF 23

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GENERAL NOTES:

1. CONTRACTOR SHALL NOTE THAT ASBESTOS CEMENT PIPE IS PRESENT ON PROJECT SITE. CONTRACTOR SHALL FOLLOW SPECIFICATIONS AND REGULATORY AGENCY MEASUREMENTS FOR HANDLING AND DISPOSAL OF SUCH ELEMENTS.
2. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION AND THE LOCATIONS AND ELEVATIONS OF EXPOSED FEATURES SHALL BE CAREFULLY NOTED ON THE PROJECT RECORD "AS-BUILT" DRAWINGS. ANY AND ALL CONFLICT OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE CONTRACTOR IN AN APPROVED MANNER.
3. CONTRACTOR SHALL PROVIDE A FIVE (5) DAY NOTICE TO CITY AND ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. 48 HOURS PRIOR TO DIGGING, CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND SERVICE COMPANIES TO VERIFY THE LOCATION OF THEIR FACILITIES. ADDITIONALLY, CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770 PRIOR TO DIGGING.
5. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. PLAN IS BASED ON AERIAL IMAGERY. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED. CONTRACTOR IS RESPONSIBLE TO VERIFY DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS PRIOR TO ORDERING ANY MATERIALS.
6. THE CONTRACTOR IS ADVISED TO USE EXTREME CAUTION WHEN CONSTRUCTION IS NEAR OR AROUND ANY ELECTRICAL FACILITIES.
7. THE CONTRACTOR SHALL COORDINATE THE UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, AS NECESSARY TO COMPLETE THE WORK. ANY COST INVOLVED IS TO BE BORNE BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
9. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS WITH CURRENT FIELD CHANGES ACCURATELY MARKED AND SHALL DELIVER THESE PLANS TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION. THE CURRENT MARKINGS SHALL BE REVIEWED WITH THE ENGINEER DAILY, OR AS NEEDED, TO ASSURE THAT THEY BOTH AGREE THAT THE MARK-UPS REFLECT THE ACTUAL "AS-BUILT" CONDITIONS. THE CONTRACTOR WILL PREPARE PROJECT RECORD DRAWINGS AT THE CONCLUSION OF THE PROJECT BASED ON THE MARK-UP DRAWINGS.
10. ANY U.S.G.S. OR STATE OF FLORIDA MONUMENT OR BENCH WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND DISTRICT LOCATION SURVEYOR.
11. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED.
12. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR IS ADVISED THAT ALL PROPERTIES ADJACENT TO THE PROJECT MAY HAVE WATER, SEWER AND IRRIGATION SERVICES WHICH MAY NOT BE SHOWN IN THE PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERALS SERVICING SAID PROPERTIES MUST BE INCLUDED IN THE BID ITEMS. IF THE CONTRACTOR ELECTS TO REPLACE PORTIONS OF THE EXISTING UTILITY LINES IN LIEU OF SUPPORTING IT, IT WILL BE AT THE CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS A MINIMUM OF FIFTEEN (15) DAYS, OR EARLIER IF REQUIRED BY THE CITY, PRIOR TO CONSTRUCTION ON THEIR STREET.
15. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES AND WILL MAINTAIN ACCOMMODATIONS FOR INTERSECTING AND CROSSING TRAFFIC. NO ROAD OR STREET CROSSING WILL BE BLOCKED OR UNDULY RESTRICTED AS DETERMINED BY THE ENGINEER.
16. ANY PAVEMENT MARKINGS OR SIGNS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED
17. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
18. RECONSTRUCTION OF SIDEWALKS AND DRIVEWAYS SHALL MEET FDOT MINIMUM STANDARDS, INCLUDING MINIMUM AND MAXIMUM SLOPES AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT (ADA)
19. THE PERMIT PLAN SET MUST BE ON SITE AT ALL TIMES.
20. ALL ACTIVITIES SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH LOCAL RULES AND LEGISLATION REGARDING POLLUTION PREVENTION FOR WATER, SOIL AND AIR. ALSO, ALL APPLICABLE RULES AND LEGISLATION REGARDING PERSONAL HEALTH AND SAFETY SHALL BE OBSERVED.
21. EXISTING ABOVE GROUND UTILITY FEATURES WITHIN THE PROPOSED UTILITY STRIP SHALL BE MAINTAINED AND PROTECTED. ELEVATIONS OF EXISTING VALVES SHALL BE ADJUSTED TO BE FLUSH WITH STAMPED CONCRETE.
22. CONTRACTOR SHALL DELIVER ALL EXISTING SIGNS THAT ARE REMOVED TO THE RIVIERA BEACH PUBLIC WORKS DEPARTMENT.
23. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NOs. 17302 AND 17344

DEMOLITION NOTES:

1. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
2. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM CITY. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY THE CITY.
3. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
4. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
5. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
6. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO EXISTING CONDITION.
7. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION OR ADJOINING CONSTRUCTIONS. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER FEATURES OR APPURTENANCES NOT TO BE DISTURBED.
8. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
9. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
10. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS.

SIGNING AND MARKING NOTES:

1. ALL PAVEMENT MARKINGS WITHIN CITY OF RIVIERA BEACH RIGHT-OF-WAY SHALL BE THERMOPLASTIC. THERMOPLASTIC SHALL NOT BE INSTALLED ON PAVEMENT UNTIL A MINIMUM OF FIVE CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED.
2. BLUE/BLUE REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE INSTALLED IN THE CENTER OF ADJACENT TRAVEL LANE TO INDICATE THE LOCATION OF ALL FIRE HYDRANTS.
3. BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 40' INTERVALS CENTERED BETWEEN YELLOW SKIP STRIPES.
4. ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT EACH END OF 18" YELLOW STRIPES ON EACH SIDE OF DOUBLE YELLOW STRIPES.
5. BI-DIRECTIONAL COLORLESS/RED REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS ALONG SOLID WHITE LINES (NOT ON EDGE OF PAVEMENT LINES).
6. BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 1' INTERVALS AT ALL BULLNOSES.
7. ALL SIGNING, PAVEMENT MARKINGS AND PLACEMENT OF REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MANUAL (MUTCD), LATEST VERSION.
8. ALL PAVEMENT MARKING SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 711, LATEST EDITION.
9. REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 706, LATEST EDITION AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
10. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
11. ALL SIGNS SHALL BE DIAMOND GRADE.
12. THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED SUBSTANTIALLY IN ACCORDANCE WITH "THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS-STATE OF FLORIDA".
13. METHOD OF REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE BY WATER JETTING OR SAND BLASTING. BLACK-OUT OF EXISTING PAVEMENT MARKING IS NOT PERMITTED.
14. THE CONTRACTOR SHALL VERIFY PROPER STREET NAMES AND NUMBERS WITH AN APPROVED ADDRESS PLAN PRIOR TO ORDERING AND INSTALLING 'D3' SIGNS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REFUSE PICK UP AND MAIL SERVICE TO ENSURE UNINTERRUPTED SERVICE THROUGHOUT THE CONSTRUCTION PROJECT.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE INTENT OF EROSION CONTROL MEASURES IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS TO BE DETERMINED BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER OR OTHER APPROVED MATERIALS.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. CITY APPROVAL REQUIRED PRIOR TO DISTURBING VEGETATION WHERE FEASIBLE OPENS UP TO CONTRACTOR INTERPRETATION.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF RIVIERA BEACH.

LEGEND

- x 0.00 — EXIST. MEASURED ELEVATION
- EXIST. SPEED BUMP/BRICK PAVERS
- EXIST. MAILBOX
- EXIST. INFORMATION SIGN (DOUBLE POST)
- EXIST. INFORMATION SIGN (SINGLE POST)
- EXIST. TEMPORARY BENCHMARK
- EXIST. LIGHT POLE
- EXIST. CATCH BASIN
- EXIST. STORM MANHOLE
- EXIST. WATER METER
- EXIST. FIRE HYDRANT
- EXIST. WATER VALVE
- EXIST. SANITARY VALVE
- EXIST. SANITARY MANHOLE
- EXIST. ELECTRIC WIRE PULL BOX
- EXIST. GUY WIRE
- EXIST. UTILITY POLE
- EXIST. CONCRETE POWER POLE
- EXIST. CURB INLET
- TBM — TEMPORARY BENCHMARK
- PCN — PARCEL CONTROL NUMBER
- O.R.B. — OFFICIAL RECORD BOOK
- PB — PLAT BOOK
- PG. — PAGE
- RCP — REINFORCED CONCRETE PIPE
- R/W — RIGHT OF WAY
- PAVEMENT CORE
- INV. — INVERT
- T.O.P. — TOP OF PIPE
- TYP — TYPICAL
- —OE— EXIST. OVERHEAD ELECTRIC
- E-SWR — EXIST. UNDERGROUND SANITARY
- —DRN— EXIST. UNDERGROUND STORM
- EXIST. GUARDRAIL
- EXIST. CHAIN LINK FENCE
- EXIST. WOODEN STOCKADE FENCE
- EXIST. METAL FENCE
- EXIST. PLASTIC FENCE
- 6" EXIST. OAK TREE AND DIAMETER
- 6" EXIST. PALM TREE AND DIAMETER
- 6" EXIST. BANYAN TREE AND DIAMETER

- ABN 4" ACP WM — EXISTING ABANDON WATER MAIN
- EX WM — EXISTING WATER MAIN
- EX BT — EXISTING BURIED AT&T TELEPHONE
- EX OE — EXISTING OVERHEAD ELECTRIC
- EX 2" GAS — EXISTING GAS
- EX VCP SAN — EXISTING VCP SAN
- EX RCP SD — EXISTING RCP SD
- TH #X — PAVEMENT CORE / TEST HOLE
- PROPOSED TACTILE SURFACE
- MILL AND OVERLAY
- FULL PAVEMENT RESTORATION
- PROPOSED CONCRETE
- REMOVE SIDEWALK FEATURE
- REMOVE ASPHALT PAVEMENT/DRIVEWAY
- PROPOSED GRASS RESTORATION AREA
- REMOVE EXISTING CURB AND GUTTER
- REMOVE EXISTING PIPE
- GROUT AND ABANDON IN PLACE EXISTING PIPE
- X.XX / XX — PROPOSED SPOT ELEVATIONS
- PROPOSED UTILITY CONFLICT INDICATOR
- PROPOSED DRAINAGE FLOW ARROW
- PROPOSED SEWER LINING
- WM — PROPOSED WATER MAIN
- PROPOSED SERVICE LATERAL
- PROPOSED VERTICAL BEND
- PROPOSED REDUCER
- PROPOSED AIR RELEASE VALVE
- PROPOSED WATER METER AND SERVICE LATERAL
- PROPOSED GATE VALVE
- S1 — SAMPLE POINT

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GENERAL

1. FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER/ENGINEER.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL TERMS AND CONDITIONS, DIVISION 1 THRU 16 SPECIFICATIONS AND ALL CITY, COUNTY, STATE AND FEDERAL LAWS, CODES AND ORDINANCES WHERE APPLICABLE. 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 CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION TO THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE FOR ALL REQUIRED CLEARING AND GRUBBING. RUBBLE, DEBRIS AND OTHER UNUSABLE OR UNSUITABLE MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
4. CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) MAY REQUIRE A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) WATER USE/DEWATERING PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR SUCH A PERMIT, UNLESS NOTED OTHERWISE.
5. WORK WITHIN CITY RIGHT-OF-WAY MAY REQUIRE A CITY PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR SUCH A PERMIT, UNLESS NOTED OTHERWISE.
6. WORK SHALL COMPLY WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT" OF OCTOBER 1, 1990 OR LATER.

STANDARD WATER/SEWER SEPARATION STATEMENT

1. WATER/SEWER SEPARATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND THE SPECIFIC CONDITIONS OUTLINED IN THE APPLICABLE PERMIT(S) FOR THE PROJECT.

HORIZONTAL SEPARATIONS:

2. SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAINS AND, STORM SEWERS, STORM-WATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FEET. MINIMUM.
   BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FEET. AND AT LEAST 3 FEET. MINIMUM.
   GRAVITY OR PRESSURE SANITARY SEWERS, WASTE WATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FEET. AND AT LEAST 6 FEET. MAY BE REDUCED TO 3 FEET. WHERE BOTTOM OF WATER MAINS IS AT LEAST 6 " ABOVE TOP OF SEWER AND 10 FEET. TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.
3. VERTICAL SEPARATIONS:
   PER FLORIDA CODE NUMBER 62-555.314, MINIMUM VERTICAL SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES IF WATER MAIN IS UNDER STORM OR SANITARY SEWER, OR AT LEAST 6 INCHES WHEN ABOVE.
4. CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.
5. ANY DEVIATION FROM PREFERRED SEPARATION VALUES WILL REQUIRE NOTIFICATION OF APPROVAL FROM THE DISTRICT.

TESTING

1. BACKFILL COMPACTION TESTS SHALL BE CONDUCTED BY AN INDEPENDENT TESTING LAB. FOR TYPICAL PIPE TRENCHES, DENSITY TESTS SHALL BE PERFORMED AT 500 FEET (MAXIMUM) INTERVALS. FOR OPEN-CUT PIPE TRENCHES ACROSS ROADS AND DRIVEWAYS, DENSITY TESTS SHALL BE PERFORMED AT 50 FEET (MAXIMUM) INTERVALS. TESTS SHALL BE CONDUCTED AT 12" LIFTS BEGINNING AT THE SPRING LINE OF THE PIPE TO THE TOP OF SUBGRADE/BACKFILL. LAYER TO FINISHED GRADE. CERTIFIED TEST REPORTS SHALL BE PROVIDED TO THE OWNER/ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE TESTING LAB AS NECESSARY DURING THE PROGRESS OF WORK. THE OWNER RESERVES THE RIGHT TO APPROVE THE TESTING LAB, BUT THE COST OF DENSITY TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. TESTING SHALL BE PERFORMED FOR THE FOLLOWING ITEMS WITH CERTIFIED REPORTS PROVIDED TO THE OWNER/ENGINEER FOR REVIEW/APPROVAL:

   -BACKFILL GRADATION AND COMPACTION.
   -SUBGRADE STABILIZATION AND COMPACTION.
   -BASE COURSE COMPOSITION AND COMPACTION.
   -ASPHALT COMPOSITION/GRADATION AND COMPACTION.
   -CONCRETE BREAK STRENGTH.

PIPE INSTALLATION

1. BELL-AND-SPIGOT PIPE SHALL BE PLACED WITH THE BELL END POINTING IN THE DIRECTION OF PIPE LAYING. PIPE SHALL BE GRADED IN STRAIGHT LINES, TAKING CARE TO PREVENT THE FORMATION OF ANY DIPS OR LOW POINTS. PIPE SHALL NOT BE LAID WHEN THE CONDITIONS OF TRENCH OR WEATHER ARE UNSUITABLE. AT THE END OF EACH WORK DAY, OPEN ENDS OF PIPE SHALL BE CLOSED TEMPORARILY WITH WOOD BLOCKS OR BULKHEADS.
2. PIPE SHALL BE SUPPORTED AT ITS PROPER ELEVATION AND GRADE, TAKING CARE TO SECURE FIRM AND UNIFORM SUPPORT. WOOD SUPPORT BLOCKING SHALL NOT BE PERMITTED. THE FULL LENGTH OF EACH SECTION OF PIPE AND FITTINGS SHALL REST SOLIDLY ON THE PIPE BED, WITH RECESSED EXCAVATION TO ACCOMMODATE BELLS, JOINTS AND COUPLINGS. ANCHORS AND SUPPORTS SHALL BE PROVIDED WHERE NECESSARY AND WHERE INDICATED ON THE DRAWINGS FOR FASTENING WORK INTO PLACE. FITTINGS SHALL BE INDEPENDENTLY SUPPORTED.
3. PIPE SEGMENTS SHALL BE OF SHORT LENGTHS IN AND OUT OF EACH RIGID JOINT OR RIGID STRUCTURE, WITH SUFFICIENT LENGTH PROVIDED FOR PROPER INSTALLATION OF JOINTING MATERIAL. BLOCKING OR WEDGING BETWEEN BELLS AND SPIGOTS SHALL NOT BE PERMITTED.
4. PIPE SHALL BE CUT BY MEANS OF SAWS, POWER DRIVEN ABRASIVE WHEELS OR PIPE CUTTERS, TO PRODUCE A SQUARE CUT. WEDGE-TYPE ROLLER CUTTERS SHALL NOT BE PERMITTED. END OF PIPE SHALL BE BEVELED AFTER CUTTING USING A BEVELING TOOL, PORTABLE TYPE SANDER OR ABRASIVE DISC.

WATER MAINS

1. PVC PIPE SHALL BE CLASS 150 (DR 18) IN ACCORDANCE WITH AWWA C900.
2. DUCTILE IRON PIPE (DIP) SHALL BE MECHANICAL OR PUSH-ON JOINT TYPE, PRESSURE CLASS 52, MANUFACTURED IN ACCORDANCE WITH AWWA C151. DIP FOR WATER MAINS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C104. DIP FOR FORCE MAINS SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY.
3. FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT TYPE, MEETING THE REQUIREMENTS OF AWWA C110 OR C153. FITTINGS FOR WATER MAINS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C104. FITTINGS FOR FORCE MAINS SHALL BE LINED PROTECTO 401 CERAMIC EPOXY.
4. DIP SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA M23.
5. WATER MAINS MAY BE DEFLECTED AS NECESSARY AT PIPE JOINTS TO ACHIEVE THE DESIGN ALIGNMENT. FITTINGS SHALL BE USED WHEN DEFLECTION EXCEEDS 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
6. WATER MAINS SHALL BE MECHANICALLY RESTRAINED AT ELBOWS, VALVES, TEES AND DEAD ENDS IN ACCORDANCE WITH THE UTILITY COMPANY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
7. WATER MAINS SHALL BE PLACED WITH A CONTINUOUS 10 GAUGE, THWN INSULATED, STRANDED COPPER LOCATOR WIRE SECURED TO THE TOP OF THE PIPE. WIRE SHALL BE CONTINUOUS FROM VALVE BOX TO VALVE BOX, WRAPPED TWICE AROUND EACH PIPE JOINT AND EXTENDED SUFFICIENTLY INTO EACH VALVE BOX OR CONCRETE COLLAR TO PERMIT ATTACHING LOCATOR DEVICES.
8. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36-INCHES UNLESS OTHERWISE NOTED. FORCE MAINS SHALL HAVE A MINIMUM COVER OF 36-INCHES UNLESS OTHERWISE NOTED. WHEN LESS 36" COVER IS SPECIFIED, PIPE SHALL BE DUCTILE IRON WITH THICKNESS CLASS 53. IN NO CIRCUMSTANCES SHALL A WATER MAIN OR FORCE MAIN HAVE LESS THAN 24" COVER.
9. WATER MAINS SHALL BE FLUSHED AFTER INSTALLATION WITH AN APPROVED POLYURETHANE PIG UNTILL CLEAN AND CLEAR IN ACCORDANCE WITH A FILLING/FLUSHING PLAN DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE OWNER/ENGINEER.
10. WATER MAINS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ANSI/AWWA C600.
11. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ANSI/AWWA C651 AND BACTERIOLOGICALLY TESTED FOR TWO CONSECUTIVE DAYS. TEST REPORTS SHALL BE SUBMITTED TO THE OWNER/ENGINEER WITH CHAIN OF CUSTODY. CONNECTION TO THE EXISTING SYSTEM WILL NOT BE ALLOWED PRIOR TO HEALTH DEPARTMENT OR FDEP APPROVAL OF CERTIFICATION AS APPLICABLE. A METERING INJECTION PUMP SHALL BE USED TO ENSURE A MINIMUM OF 50-PPM CHLORINE LEVEL. A DISTRICT REPRESENTATIVE SHALL VERIFY THE MINIMUM 50-PPM CHLORINE LEVEL FOR 2 CONSECUTIVE DAYS. ONCE PRIOR TO TESTING COMMENCEMENT AN ONCE AFTER 48 HOURS.
12. WATER MAIN VALVES SHALL BE RESILIENT SEAT TYPE GATE VALVES IN ACCORDANCE WITH AWWA C509 OR C515.
13. ALL CONNECTIONS AND TAPS SHALL BE LOCATED AT LEAST 24 INCHES FROM A FITTING OR BELL AND MINIMUM 18" BETWEEN SUCCESSIVE TAPS.
14. NEW WATERLINE SHALL BE INSTALLED TESTED AND APPROVED BY PALM BEACH COUNTY HEALTH DEPARTMENT, SERVICES TRANSFERRED TO THE NEW MAIN PRIOR TO WORK ON DRAINAGE SYSTEM.
15. CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE UNDER THE DIRECT SUPERVISION OF THE UTILITY COMPANY. PIPES AND FITTINGS USED TO COMPLETE THE CONNECTIONS SHALL RECEIVE CHLORINATION TREATMENT. EXISTING VALVES SHALL BE OPERATED BY UTILITY COMPANY PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVES AND VALVES SHALL BE PRESSURE TESTED PRIOR TO INSTALLATION. IF CUSTOMER SERVICES MUST BE INTERRUPTED, THE UTILITY COMPANY SHALL BE INFORMED AT LEAST 72 HOURS IN ADVANCE TO MAKE THE NECESSARY NOTIFICATIONS. CUSTOMER SERVICES SHOULD NOT BE INTERRUPTED FOR MORE THAN 4 HOURS.
16. POLYETHYLENE SERVICE TUBING SHALL BE COPPER TUBE SIZE (CTS), SDR 9, RATED FOR 200 PSI IN ACCORDANCE WITH ASTM D2737 AND AWWA C901.
17. COUPLINGS AND FITTINGS FOR POLYETHYLENE TUBING SHALL BE GRIP- JOINT TYPE AS MANUFACTURED BY FORD OR APPROVED EQUIVALENT.
18. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(b)3. USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOILD-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO. THE PIPE WALL, PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OR 24" OR GREATER. TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
19. ALL METER BOXES, VALVE RISERS & COVERS AND MANHOLES TO REMAIN SHALL BE RAISED TO FINISH GRADE.
20. WATER MAIN SHALL BE TESTED UNDER CONSTANT PRESSURE OF 150 P.S.I. FOR A MINIMUM TEST PERIOD OF 2 HOURS UNDER DIRECT SUPERVISION OF THE DISTRICT AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER A.N.S.I./A.W.W.A. SPECIFICATIONS OF C-600-05 LEAKAGE FORMULA: Q = (SD P)/ 148,000
    Q = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
    D = DIAMETER OF THE PIPE TESTED, IN INCHES.
    S = TOTAL LENGTH OF PIPE TESTED, IN FEET.
    P = AVERAGE TEST PRESSURE, IN POUNDS PER SQUARE INCH.
21. THE MAXIMUM LENGTH OF LINE TO BE TESTED AS ONE SECTION SHALL NOT EXCEED 2,000 FEET.
22. TAPPING SLEEVES SHALL BE PRESSURED TESTED AGAINST THE VALVE AT 150 PSI FOR 15 MINS WITH ZERO LOSS.
23. SANITARY LATERALS SHALL BE ADJUSTED WHERE IN CONFLICT WITH THE PROPOSED DRAINAGE OR WATER SYSTEM.
24. ALL BACKFLOW ASSEMBLIES SHALL BE RPZ OR RPDA ONLY USC APPROVED.

PIPE HANDLING AND STORAGE

1. HANDLING: PIPE, FITTINGS AND ACCESSORIES SHALL BE CAREFULLY INSPECTED BEFORE AND AFTER INSTALLATION. PIPE AND FITTINGS SHALL BE FREE FROM FINS AND BURRS. ITEMS FOUND TO BE DEFECTIVE SHALL BE REJECTED. PIPE SEGMENTS SHALL BE CAREFULLY LOWERED INTO TRENCHES WITH THE PROPER EQUIPMENT. PIPE, FITTINGS AND ACCESSORIES SHALL NOT BE DROPPED OR DUMPED INTO TRENCHES UNDER ANY CIRCUMSTANCES.
2. STORAGE: PIPE SHOULD BE STORED AT THE JOB SITE IN UNIT PACKAGES PROVIDED BY THE MANUFACTURER. CAUTION SHOULD BE EXERCISED TO AVOID COMPRESSION DAMAGE OR DEFORMATION TO BELL ENDS OF THE PIPE. PIPE SHOULD BE STORED IN SUCH A WAY AS TO PREVENT SAGGING OR BENDING AND PROTECTED FROM EXPOSURE TO DIRECT SUNLIGHT BY COVERING WITH AN OPAQUE MATERIAL THAT PERMITS ADEQUATE AIR CIRCULATION ABOVE AND AROUND THE PIPE. GASKETS SHOULD BE STORED IN A COOL, DARK PLACE OUT OF THE DIRECT RAYS OF THE SUN, IN THE ORIGINAL PACKAGING.
3. UPON RECEIPT ALL OF THE MATERIAL DISTRICT SHALL BE NOTIFIED AND AN INSPECTION OF THAT MATERIAL SHALL BE CONDUCTED PRIOR TO INSTALLATION.

MOT

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING REFLECTORIZED RAISED PAVEMENT MARKERS (RPM'S) USING TEMPORARY RPM'S. RPM SPACING SHALL BE PLACED ACCORDING TO EITHER AS EXISTING, STANDARD INDEX 600 SERIES OR STANDARD INDEX 17346.
2. THE CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS INDICATING LANE LINES AND PAVEMENT MARKINGS SHALL COMPLETELY DEFINE TRAFFIC DURING AND AT THE END OF HE WORK PERIOD.
3. TEMPORARY LANE TRANSITIONS, SHIFTS AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT. ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2-4 FT. SKIP LINES WILL BE PLACED.
4. TEMPORARY RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INSTALLED ON THE EDGE, CENTER AND LANE LINES OF ALL CROSSOVERS, TRANSITIONS, AND TANGENT SECTIONS WITHIN THE WORK ZONE WHERE THE VEHICLE PATHS ARE ALTERED. THE SPACING FOR THESE RPM'S SHALL BE 40 FT. ON CENTERS FOR TANGENT SECTIONS AND 5 FT. FOR TRANSITIONS, CURVES, AND CROSSOVERS. THE RPM'S SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPM'S SHALL BE INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING A BLUE/BLUE RPM IN FRONT OF ALL FIRE HYDRANTS WITHIN PROJECT LIMITS. COST IS INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC.
6. THE USE OF BLACK PAINT TO COVER EXISTING PAVEMENT MARKINGS IS PROHIBITED.
7. INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION.
8. THE CONTRACTOR SHALL PROVIDE SAFE PEDESTRIAN ACCESS AND PROTECTION ADJACENT TO CONSTRUCTION THROUGHOUT THE PROJECT.
9. ANY CHANGE TO THE MAINTENANCE OF TRAFFIC PLAN PROVIDED TO THE CONTRACTOR, THAT INCLUDES PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR TRAFFIC, SHALL BE CONSULTED AND APPROVED BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE AND SAFE CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC AT ALL TIMES FOR THE DURATION OF CONSTRUCTION ACTIVITIES. DETAILED MAINTENANCE OF TRAFFIC PLANS FOR ALL PHASES OF THE WORK SHALL BE SUBMITTED TO THE OWNER/ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL EMPLOY VARIABLE MESSAGE BOARDS FROM TWO WEEK PRIOR TO MOBILIZATION ONSITE TO TWO WEEK FOLLOWING ONSITE MOBILIZATION.

ABANDONED MAINS

1. ALL EFFORTS SHALL BE MADE TO REMOVE EXISTING WATER MAINS UPON COMPLETION OF NEW MAINS. GROUTING AND/OR ABANDONMENT IN PLACE OF EXISTING WATER MAINS REQUIRES APPROVAL BY THE UTILITY DIRECTOR. ANY PIPE TO BE ABANDONED IN PLACE SHALL BE FILLED WITH GROUT. PIPE IS TO BE SHOWN ON THE AS-BUILT DRAWINGS. THE GROUT MIX SHALL BE:

TYPE	POUNDS	CUBIC FEET
CEMENT	340	1.73
SAND	2840	17.91
STONE	0	0
WATER	374	6.00
ADMIX/TYPE B	130Z	
AIR 170+5.0%	1.35	

THE SLUMP SHALL BE 6"+1 INCH, ADMIX 1 SHALL MEET ASTM C-494 TYPE BD. ALTERNATIVE MIXES WILL BE CONSIDERED.

UTILITY PROVIDERS

COMPANY	ADDRESS	CITY	STATE	ZIP	NUMBER
COMCAST BOCA DELRAY	3960 RCA BLVD	PALM BEACH GARDENS	FL	33410	561-321-3425
WINDSTREAM COMMUNICATION	929 MARTHA WAY	HIAWATHA	IA	33063	800-289-1901
CITY OF RIVIERA BEACH UTILITY DISTRICT	600 WEST BLUE HERON BLVD	RIVIERA	FL	33404	561-845-4185
FLORIDA POWER & LIGHT	NON LISTED	N/A	FL	N/A	386-586-6403
FLORIDA PUBLIC UTILITIES	PO BOX 3395	WPB	FL	33402	561-252-3308
AT&T DISTRIBUTION	1025 ELDORADO BLVD	BROOMFIELD	CO	80021	877-366-8344 X 2
CROWN CASTLE	1500 CORPORATE DRIVE	CANUNBURG	PA	15317	888-632-0931 X 2
PALM BEACH COUNTY TRAFFIC OPERATIONS	2300 NORTH JOG RD, 3RD FLOOR	WEST PALM BEACH	FL	33411	561-681-4365

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
1	11.10	6" WM	7.77	18" SD	7.22	0.55
2	11.20	6" WM	7.52	10" SS	5.93	1.59
3	11.28	2" GAS	8.60	6" WM	7.10	1.50
4	11.27	4" WM	7.85	18" SD	6.85	1.00
5	11.58	6" WM	7.85	18" SD	7.85	1.00
6	11.66	6" WM	7.85	10" SS	6.43	1.42
7	11.77	18" SD	7.33	10" SS	6.65	0.68
8	11.96	18" SD	7.33	10" SS	6.83	0.50
9	11.87	10" SS	6.54	18" SD	5.27	1.27
10	11.88	6" WM	8.22	18" SD	5.25	2.97
11	12.05	6" WM	8.62	10" SS	7.84	0.78
12	12.48	18" SD	7.59	6" WM	6.59	1.00
13	12.97	6" WM	9.49	10" SS	8.99	0.50
14	12.52	18" SD	7.34	6" WM	6.34	1.00
15	12.51	18" SD	7.34	6" WM	6.34	1.00
16	12.78	18" SD	7.34	6" WM	6.34	1.00
17	12.76	10" SS	8.50	6" WM	6.34	2.16

TEST HOLE TABLE DATA

TEST HOLE NO.	ROADWAY	UTILITY TYPES	SIZE AND MATERIAL	DIRECTION	EX. GROUND ELEVATION	COVER (ft)	EXISTING TOP
1	AVENUE J	WATER	10" AC	E	13.94	2.85	11.09
2	AVENUE J	WATER	6" CA	N	13.85	2.18	11.67
3	W 34 ST	WATER	10" AC	E	13.61	2.85	10.76
4	W 34 ST	WATER	6" AC	N	13.39	2.71	10.68
5	W 34 ST	WATER	10" AC	E	12.66	2.92	9.74

BID SET

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500 West Cypress Creek Road
Suite 850
West Palm Beach, FL 33401
+1 (561) 746-6900
www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

GENERAL NOTES

DRAWING NUMBER
GN-2
04 OF 23

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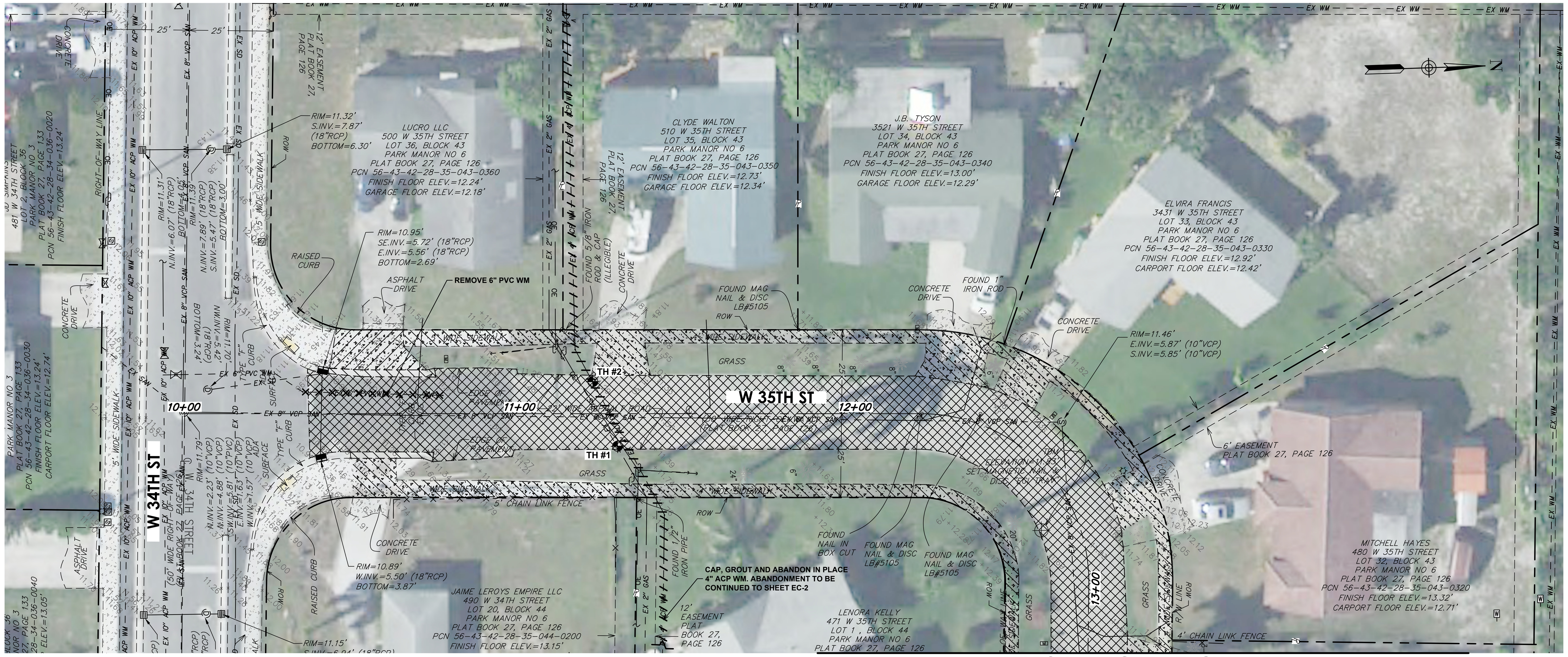
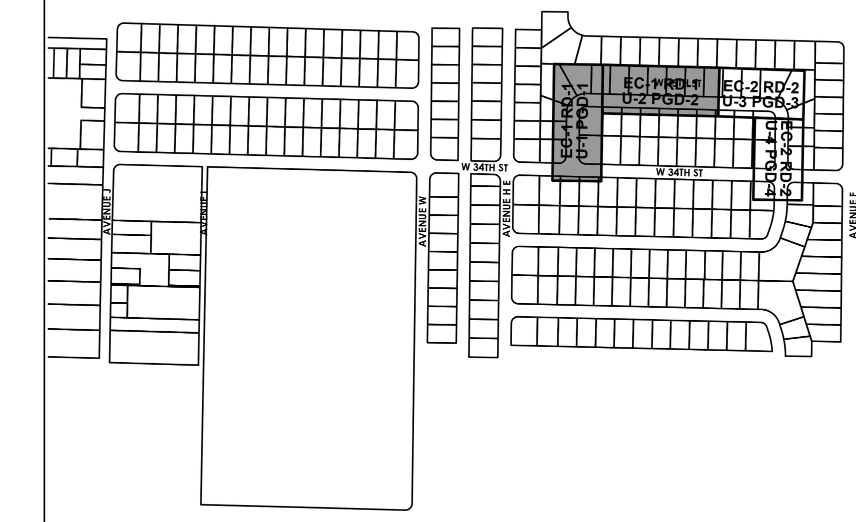


MATCHLINE SEE BELOW LEFT

MATCHLINE SEE DRAWING NO. EC-2, TOP LEFT



VICINITY MAP

N.T.S.

LEGEND

ABN 4" ACP WM	EXISTING ABANDON WATER MAIN
EX WM	EXISTING WATER MAIN
EX BT	EXISTING BURIED AT&T TELEPHONE
EX OE	EXISTING OVERHEAD ELECTRIC
EX 2" GAS	EXISTING GAS
EX VCP SAN	EXISTING VCP SAN
EX RCP SD	EXISTING RCP SD
TH #4	PAVEMENT CORE / TEST HOLE
	REMOVE CONCRETE DRIVEWAY/SIDEWALK
	REMOVE ASPHALT PAVEMENT
-/+/+/+/+/+/+	REMOVE EXISTING CURB AND GUTTER
X X X X X X X X X X X	REMOVE EXISTING PIPE
·/ / / / / / / / /·	GROUT AND ABANDON IN PLACE EXISTING PIPE

EXISTING CONDITIONS NOTES:

1. PARCEL LINES INDICATE APPROXIMATE PROPERTY LINES AND RIGHT OF WAY LIMITS, CONTRACTOR TO FIELD VERIFY RIGHT OF WAY LIMITS.

DEMOLITION NOTES:

1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
2. BEFORE PROCEEDING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
3. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TRIBE AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
6. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
7. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
8. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
9. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN
10. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
11. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
12. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
13. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS.

GRAPHIC SCALE
0 10 20 40
1 INCH = 20 FEET

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DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
EXISTING CONDITION AND DEMOLITION PLANS

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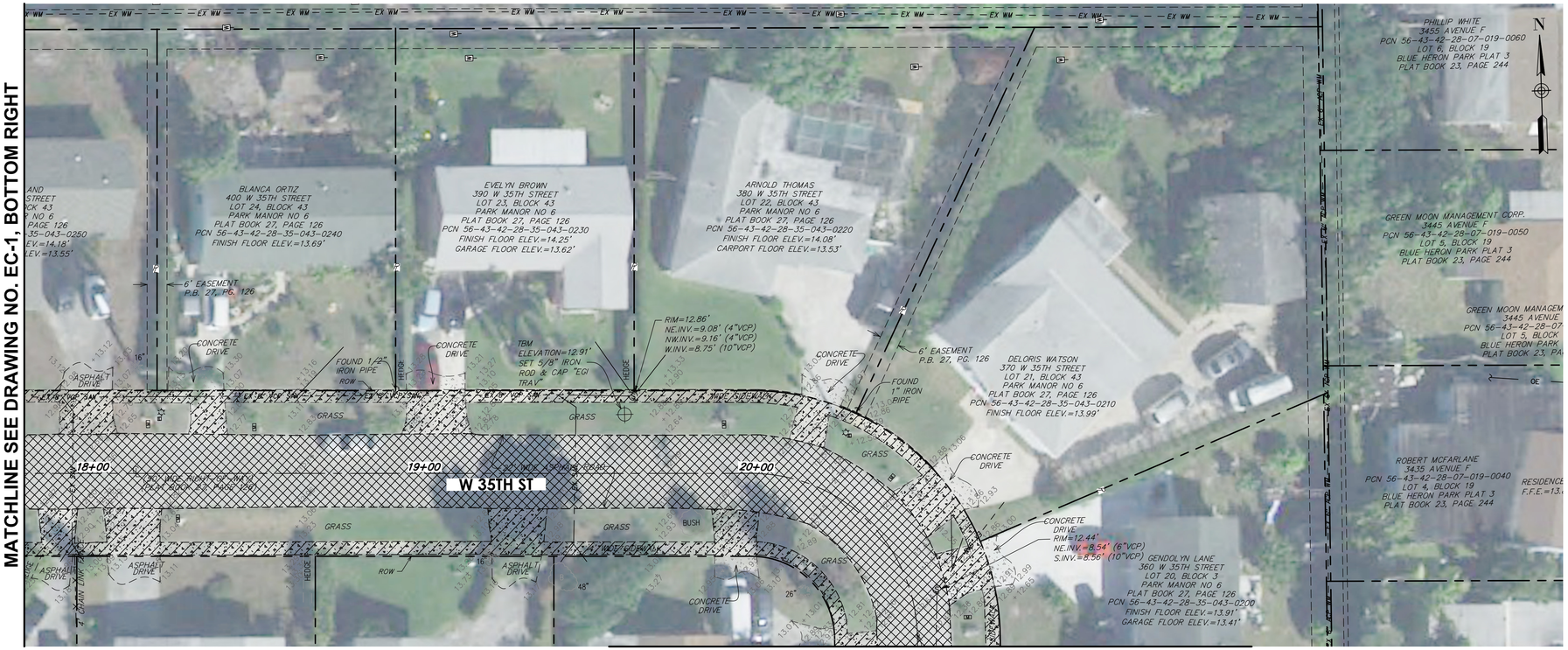
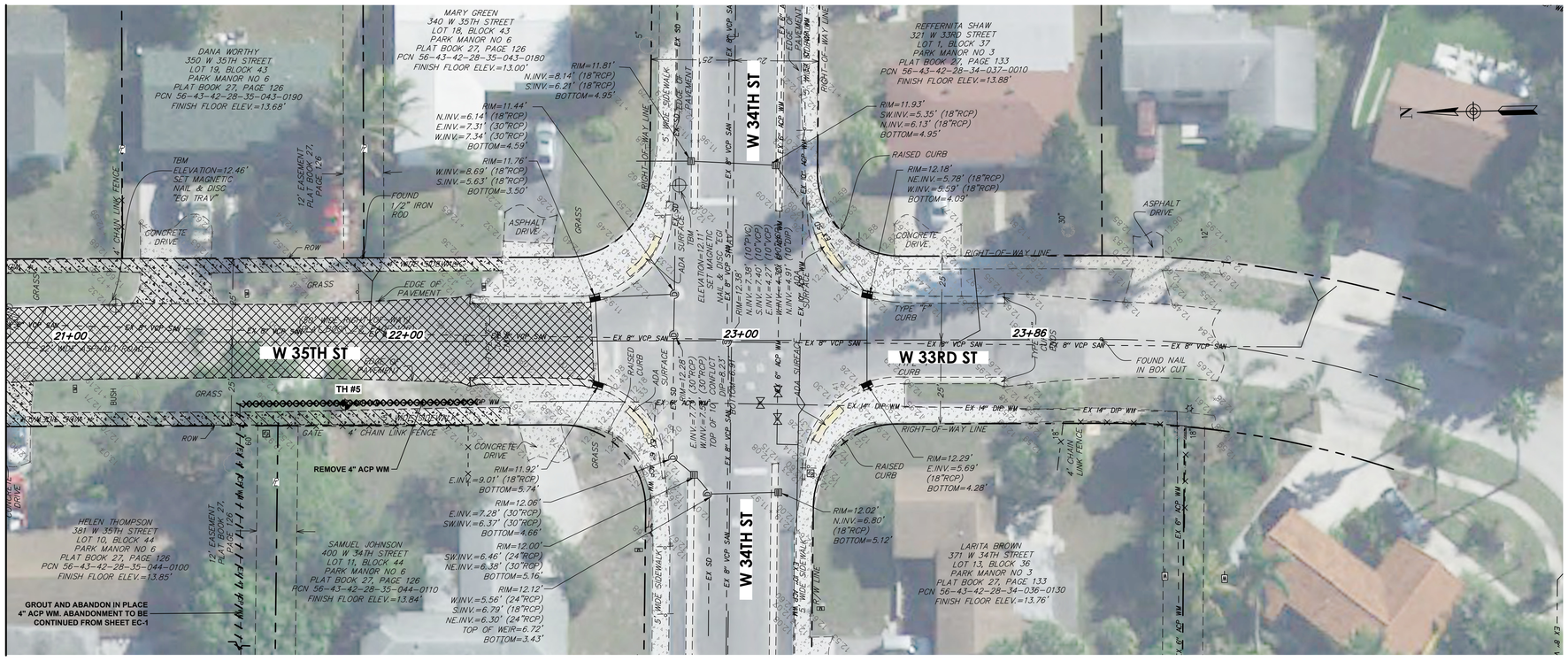
EC-1





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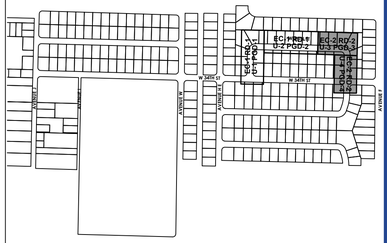

VICINITY MAP

N.T.S.

LEGEND

- EXISTING ABANDON WATER MAIN (ABN 4" ACP WM)
- EXISTING WATER MAIN (EX WM)
- EXISTING BURIED AT&T TELEPHONE (EX BT)
- EXISTING OVERHEAD ELECTRIC (EX OE)
- EXISTING GAS (EX 2" GAS)
- EXISTING VCP SAN (EX VCP SAN)
- EXISTING RCP SD (EX RCP SD)
- PAVEMENT CORE / TEST HOLE (TH #4)
- REMOVE CONCRETE DRIVEWAY/SIDEWALK
- REMOVE ASPHALT PAVEMENT
- REMOVE EXISTING CURB AND GUTTER
- REMOVE EXISTING PIPE
- GROUT AND ABANDON IN PLACE EXISTING PIPE

EXISTING CONDITIONS NOTES:

1. PARCEL LINES INDICATE APPROXIMATE PROPERTY LINES AND RIGHT OF WAY LIMITS, CONTRACTOR TO FIELD VERIFY RIGHT OF WAY LIMITS.

DEMOLITION NOTES:

1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
2. BEFORE PROCEEDING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
3. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TRIBE AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
6. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
7. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
8. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
9. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN
10. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
11. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
12. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
13. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS.

N

GRAPHIC SCALE
0 10 20 40
1 INCH = 20 FEET

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CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT
CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

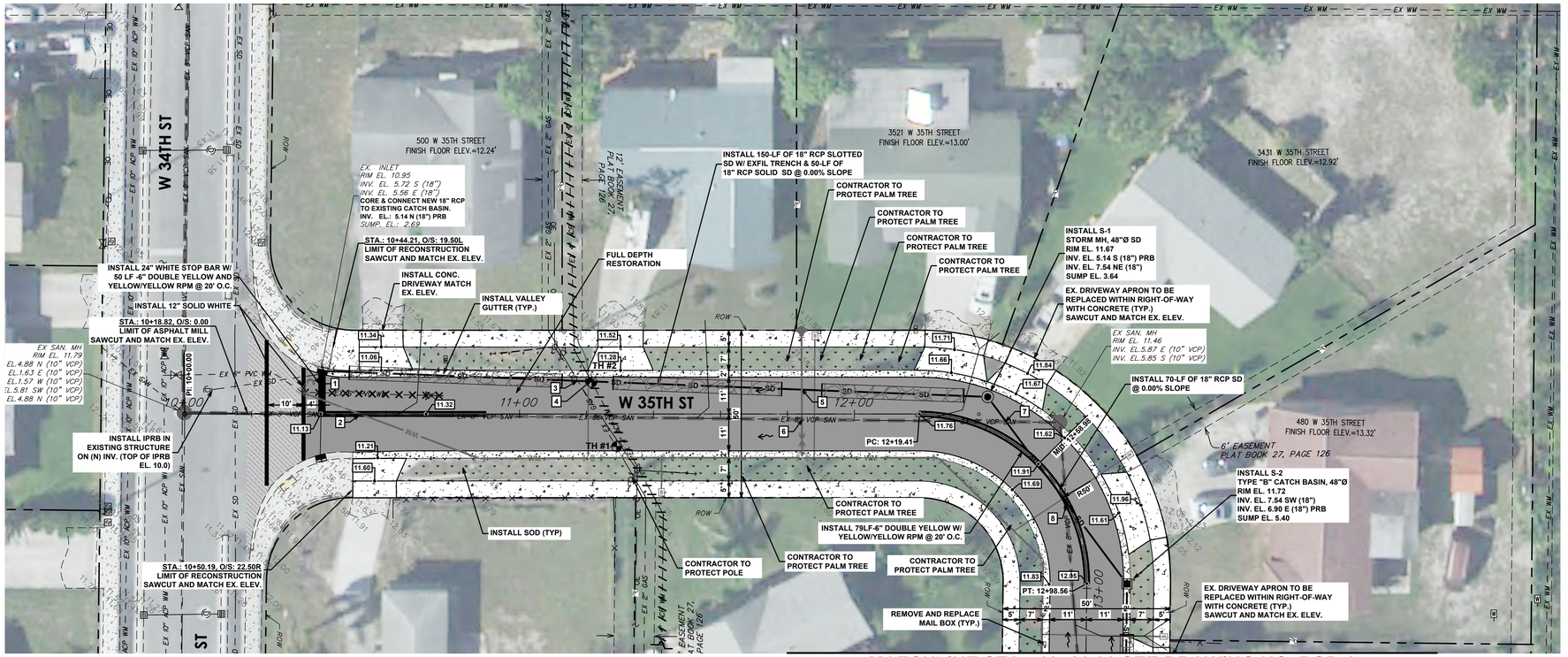
DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
EXISTING CONDITION AND DEMOLITION PLANS

DRAWING NUMBER
EC-2
06 OF 23



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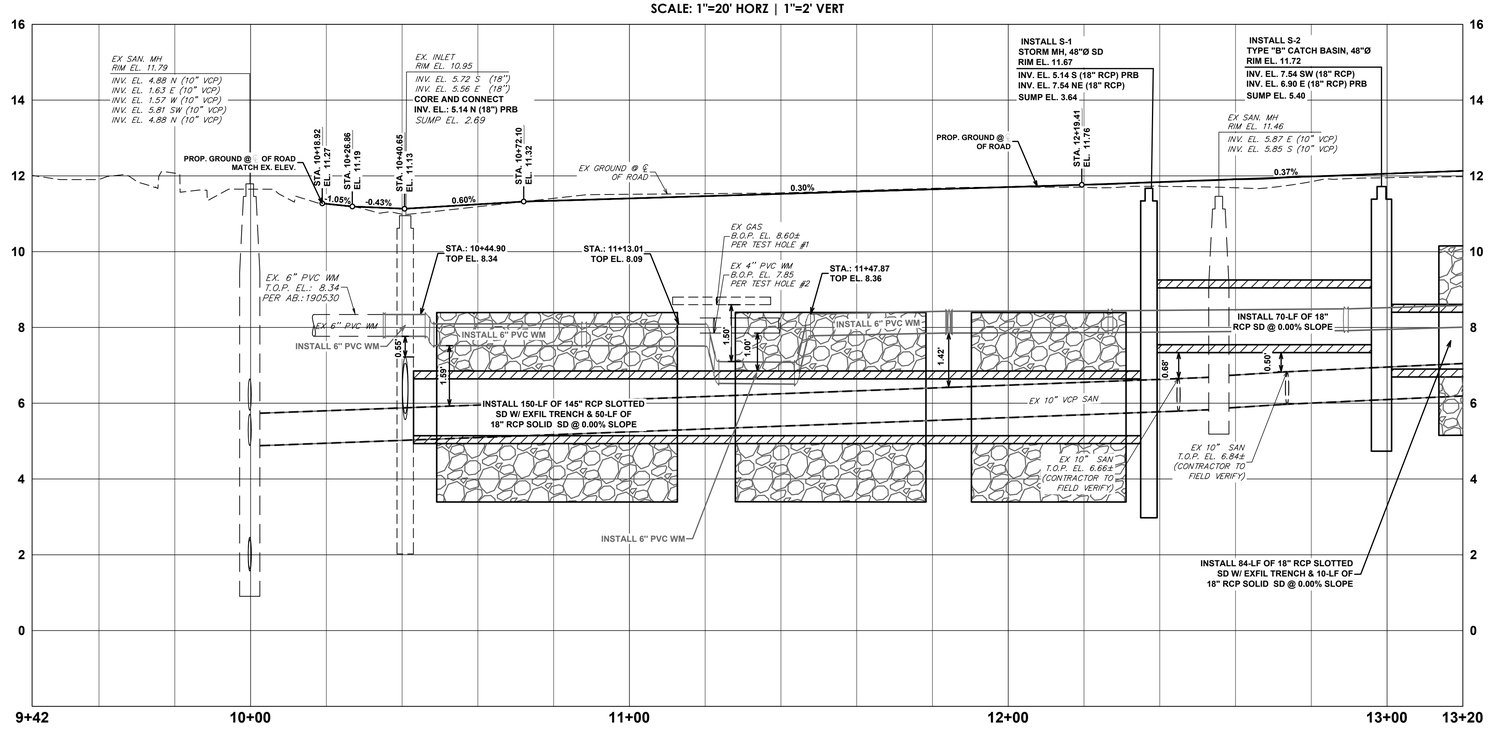

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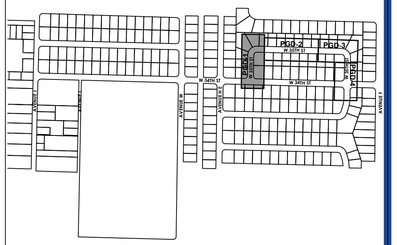

VICINITY MAP
N.T.S.

LEGEND

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4. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
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RIVIERA BEACH, FL

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20-221.022

CLIENT PROJECT NUMBER

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REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

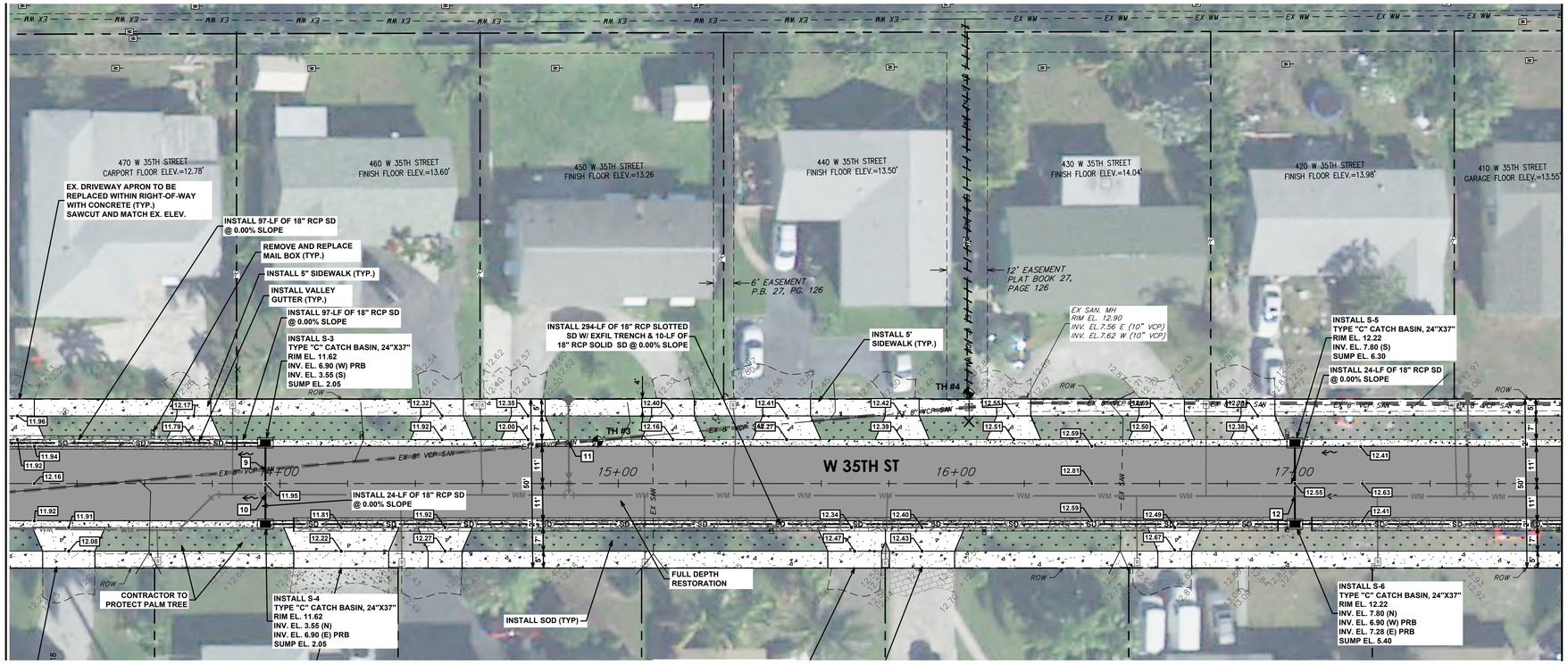
DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
PAVING, GRADING, DRAINAGE PLAN AND PROFILE

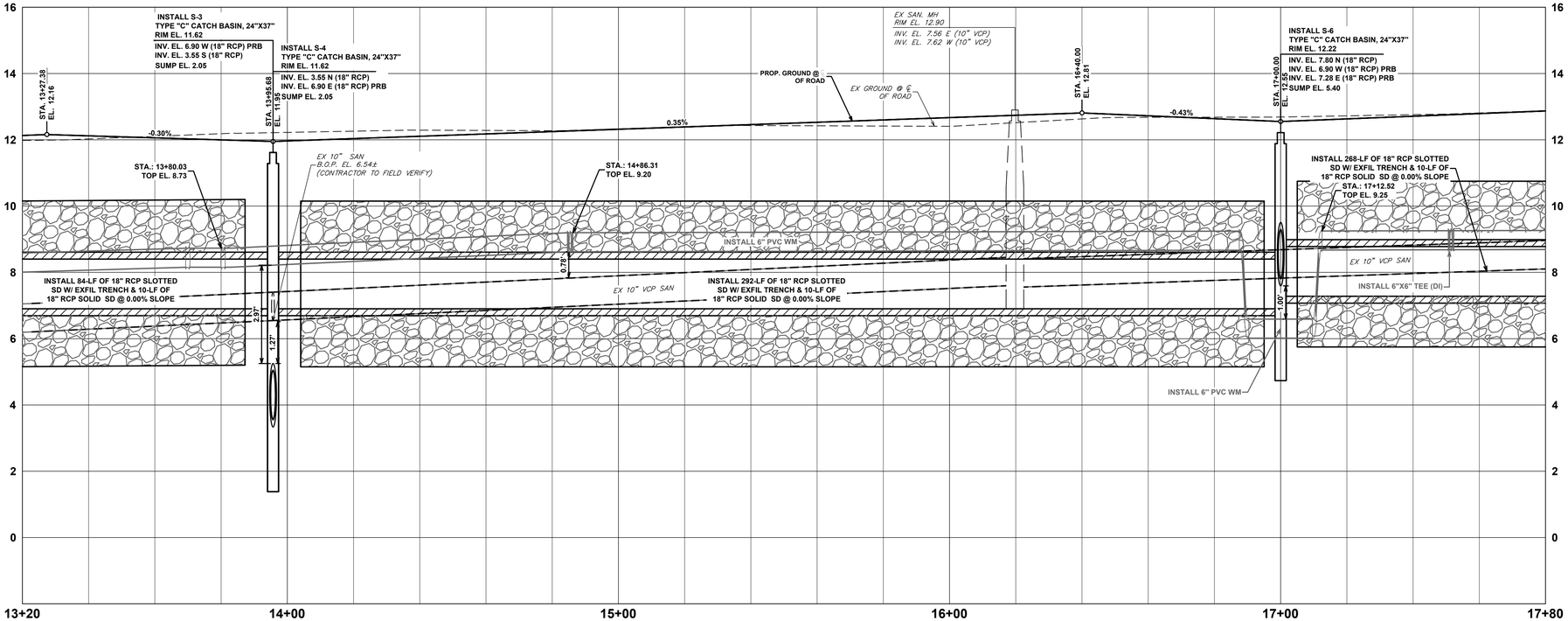
DRAWING NUMBER
PGD-1
07 OF 23

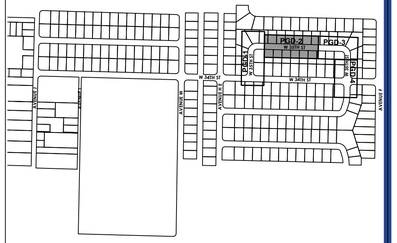
MATCHLINE STA.: 13+20.00 SEE DRAWING NO. PGD-1



MATCHLINE STA.: 17+80.00 SEE DRAWING NO. PGD-3

W 35TH STREET
SCALE: 1"=20' HORZ | 1"=2' VERT





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0 10 20 40
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N

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CLIENT
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W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
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REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
PAVING, GRADING, DRAINAGE PLAN AND PROFILE

DRAWING NUMBER
PGD-2
08 OF 23

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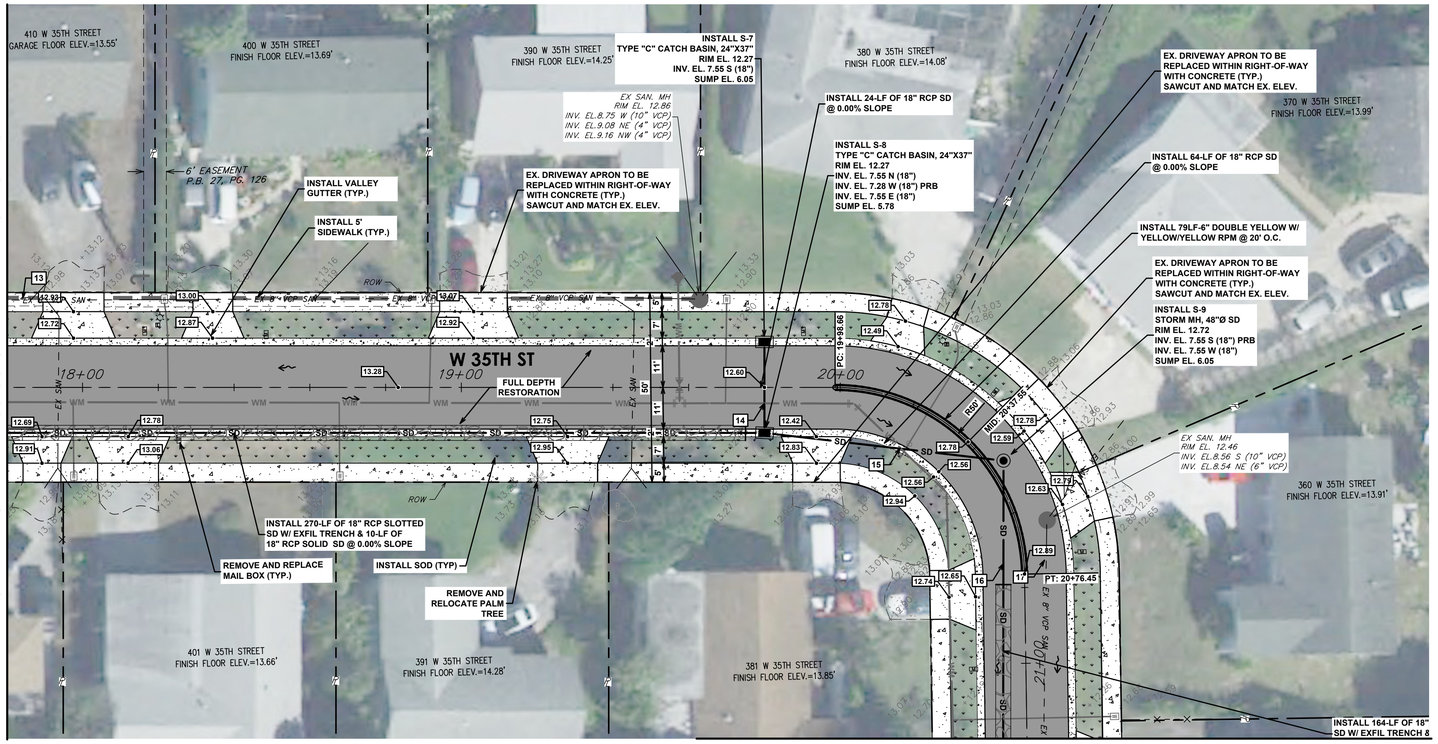
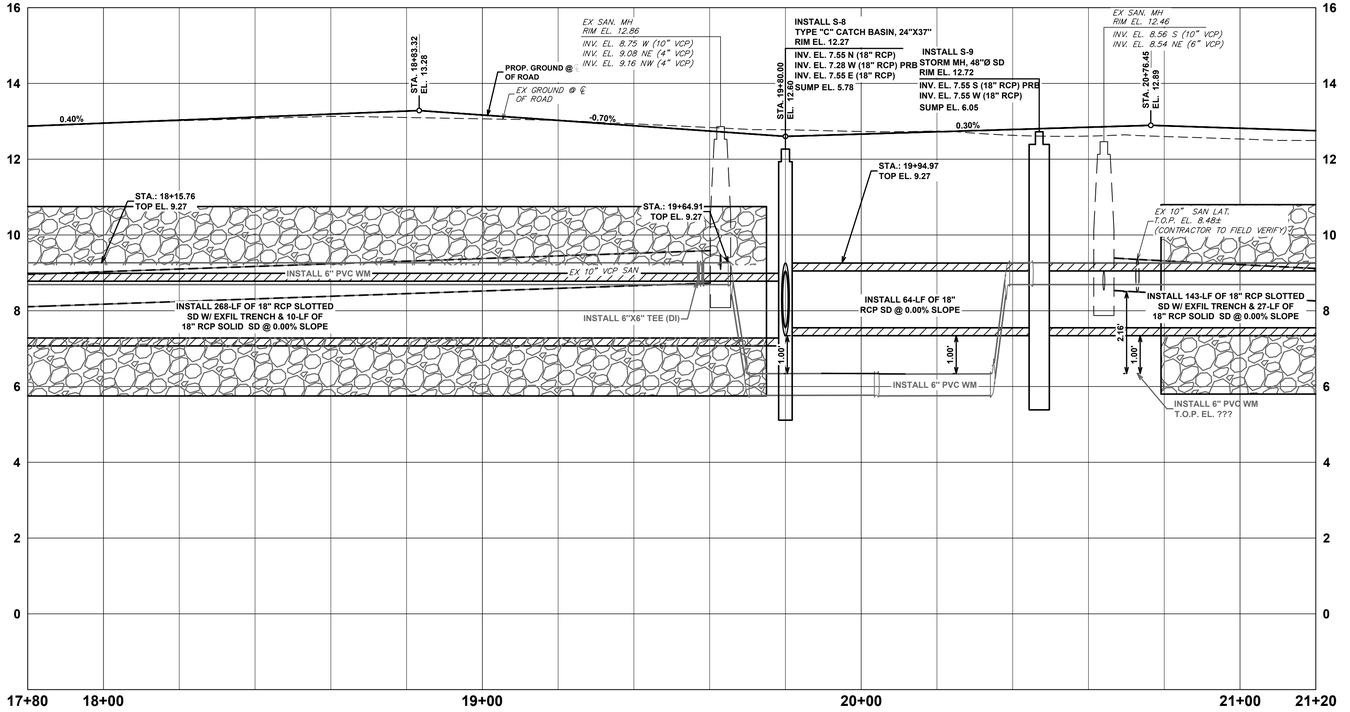
MATCHLINE STA.: 17+80.00 SEE DRAWING NO. PGD-2



MATCHLINE STA.: 21+20.00 SEE DRAWING NO. PGD-4

W 35TH STREET
SCALE: 1"=20' HORZ | 1"=2' VERT



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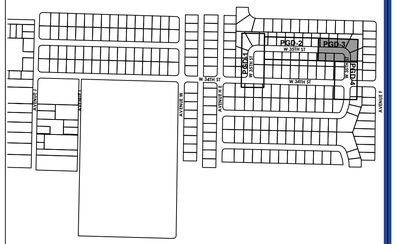

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MA

DRAWN BY
JH

CHECKED BY
SD

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PAVING, GRADING, DRAINAGE PLAN AND PROFILE

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PGD-3
09 OF 23

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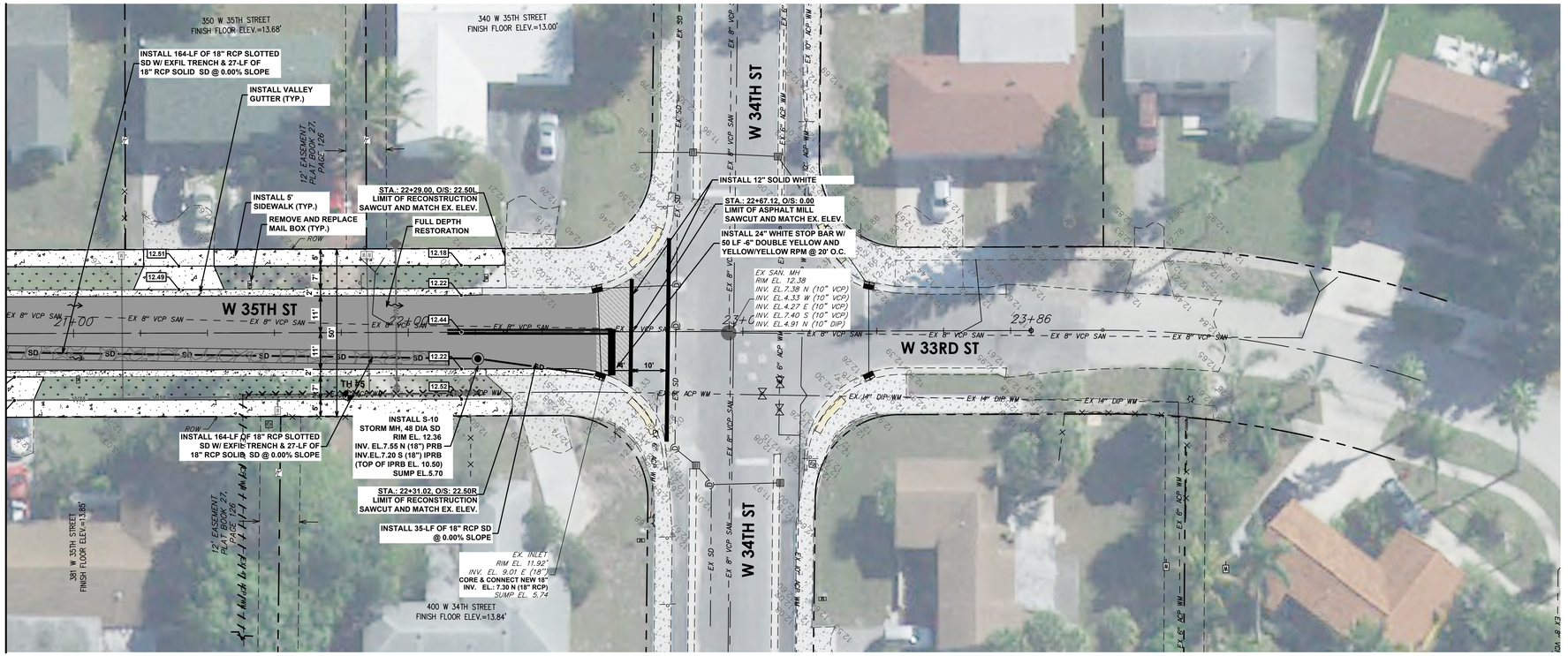

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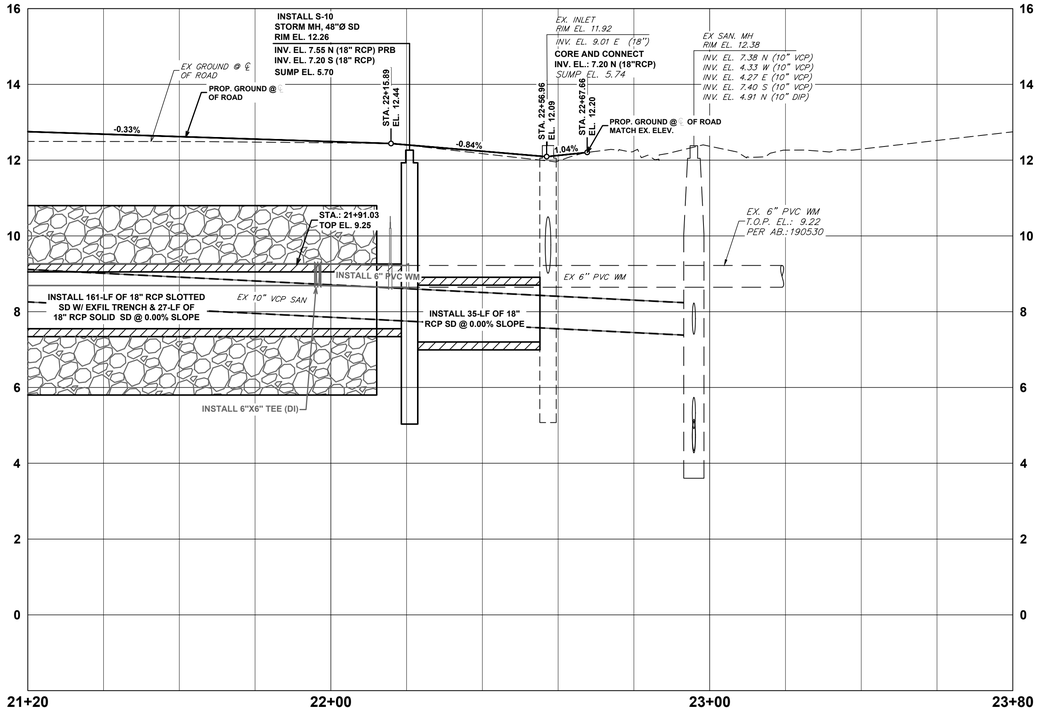

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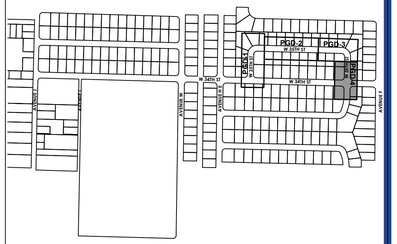

VICINITY MAP
N.T.S.

LEGEND

- PLAT LINE
- RIGHT-OF-WAY LINE
- CENTER LINE
- EASEMENT LINE
- EX SD — EXISTING STORM DRAIN PIPE
- EX WM — EXISTING WATER MAIN PIPE
- W — EXISTING WATER SERVICE LATERAL
- EX SAN — EXISTING SANITARY SEWER PIPE
- S — EXISTING SEWER SERVICE LATERAL
- x.00.00 — EXISTING ELEVATION
- x— —x — EXISTING FENCE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER METER
- EXISTING CATCH BASIN
- EXISTING GUYWIRE ANCHOR
- EXISTING TREE
- EXISTING PALM TREE
- EXISTING SPOTLIGHT AND/OR FLOODLIGHT
- EXISTING SIGN
- EXISTING SHRUB/HEDGE
- EXISTING STORM MANHOLE
- SD — PROPOSED STORM DRAIN PIPE
- SD — PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- 00.00 — PROPOSED ELEVATION
- Xx — UTILITY CONFLICT NUMBER
- PROPOSED SURFACE FLOW ARROW
- PROPOSED FULL DEPTH PAVEMENT RESTORATION
- PROPOSED MILL & RESURFACE(1" TYPE S-III)
- PROPOSED CONCRETE
- PROPOSED SOD
- TH #XX — TEST HOLE
- GROUT AND ABANDON IN PLACE EXISTING PIPE
- X X X X X X X X X X X — REMOVE EXISTING PIPE

PAVING, GRADING AND DRAINAGE NOTES:

1. ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
2. ALL INLETS SHALL BE TYPE 'C' AND MANHOLES SHALL BE TYPE 'P-7' 4'Ø, ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
3. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
4. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
5. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
6. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
7. DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.
8. CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.

ROADWAY NOTES:

1. CONTRACTOR SHALL REWORK EXISTING LIMEROCK AND RECOMPACT OR REMOVE LOOSE LIMEROCK AND OVERBUILD WITH ASPHALT PAVEMENT.
2. PARCEL LINES INDICATE APPROXIMATE PROPERTY LINES AND RIGHT OF WAY LIMITS. CONTRACTOR TO FIELD VERIFY RIGHT OF WAY LIMITIS.
3. CONTRACTOR SHALL RELOCATE ALL STOP SIGNS TO BE IN LINE WITH STOP BAR PAVEMENT MARKING.
4. SIDEWALK RESTORATION SHALL EXTEND TO THE NEAREST JOINT.
5. CONTRACTOR TO PROVIDE ROOT BARRIER WHEN APPLICABLE.

GRAPHIC SCALE
0 10 20 40
1 INCH = 20 FEET

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CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT
CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

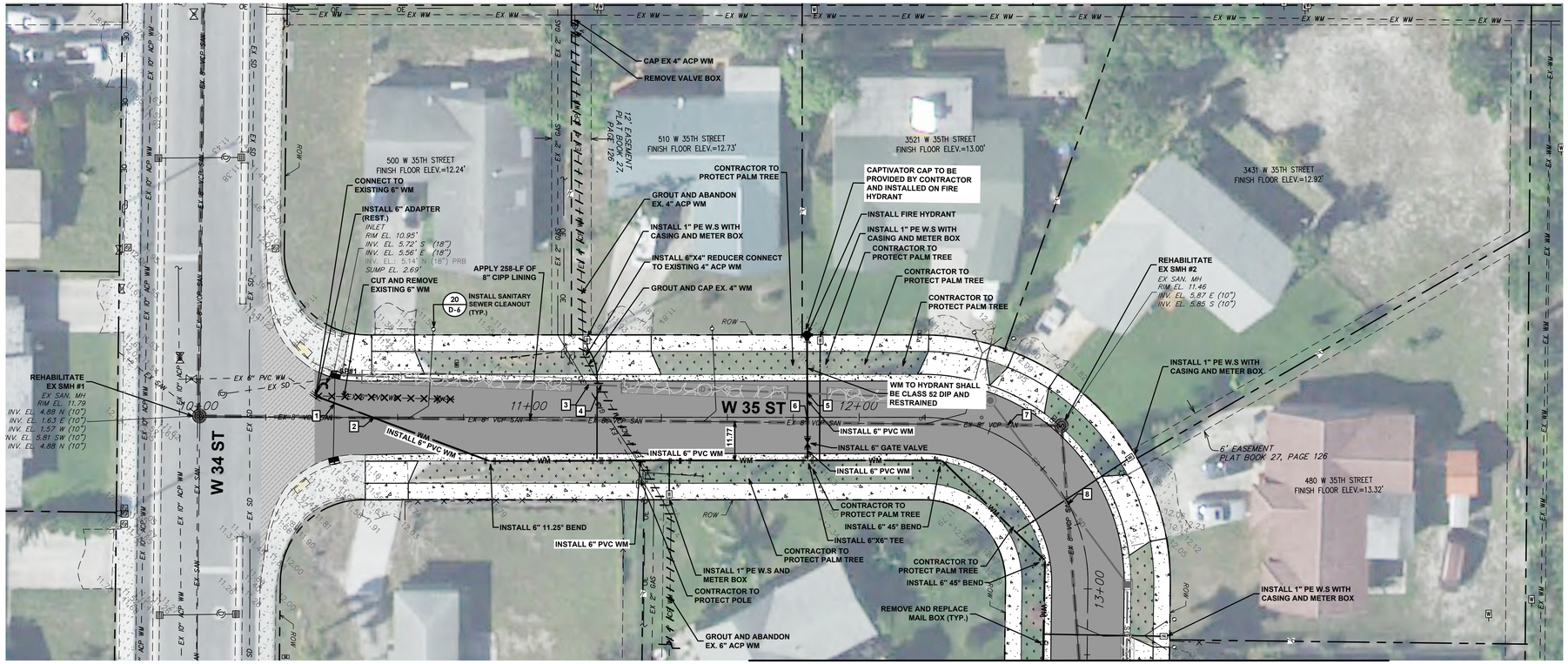
DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

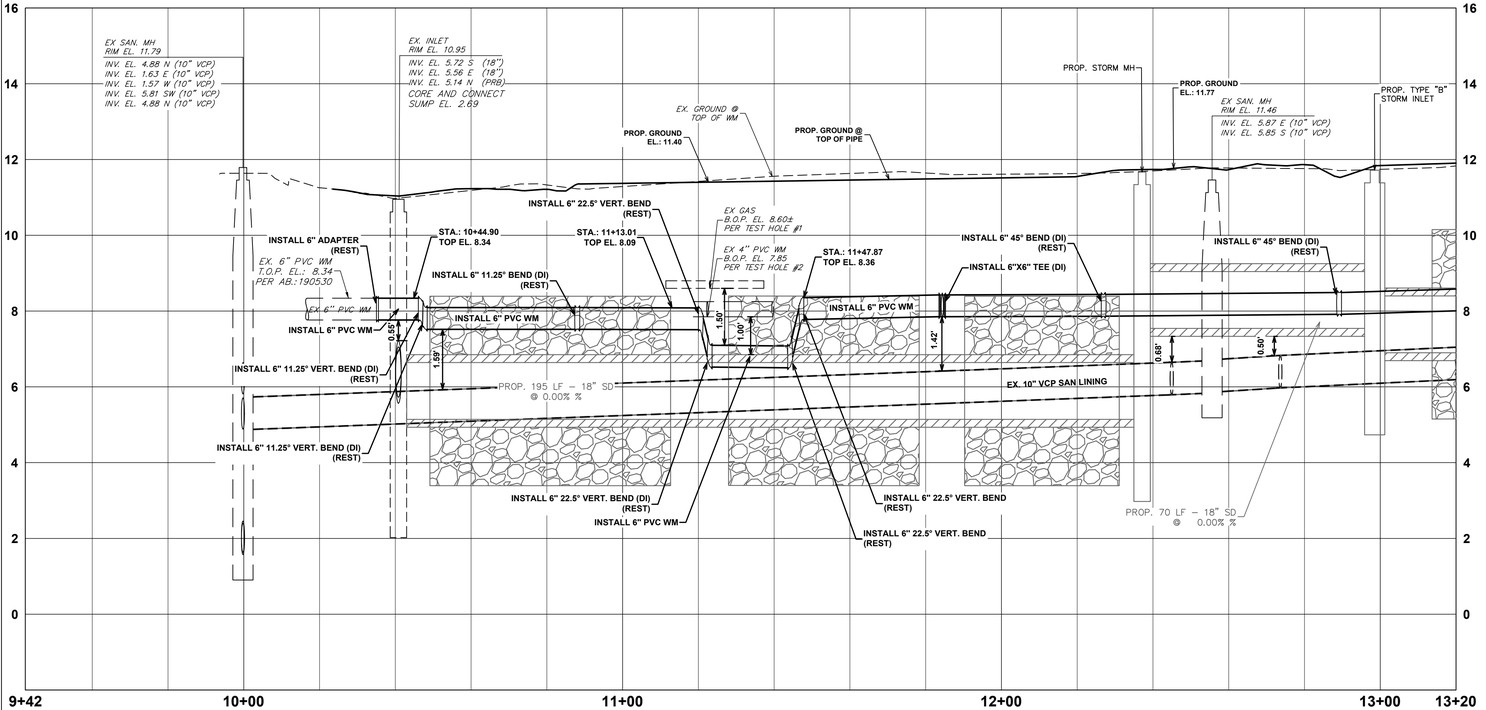
DRAWING TITLE
PAVING, GRADING, DRAINAGE PLAN AND PROFILE

DRAWING NUMBER
PGD-4
10 OF 23



MATCHLINE STA.: 13+20.00 SEE DRAWING NO. U-2

W 35TH STREET
SCALE: 1"=20' HORZ | 1"=2' VERT



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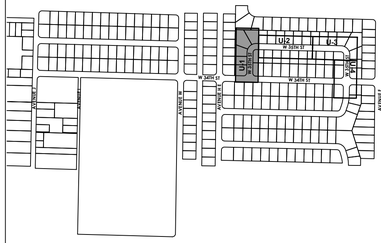

VICINITY MAP
N.T.S.

NORTH

LEGEND:

- PROPOSED SEWER LINING
- WM — PROPOSED WATER MAIN
- PROPOSED SERVICE LATERAL
- PROPOSED GATE VALVE
- SP#X — SAMPLE POINT
- PROPOSED VERTICAL BEND
- PROPOSED FIRE HYDRANT
- PROPOSED SINGLE WATER METER
- PROPOSED DOUBLE WATER METER
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- SD — PROPOSED STORM DRAIN PIPE
- SD — PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED FULL DEPTH PAVEMENT RESTORATION
- PROPOSED MILL & RESURFACE (1" TYPE S-III)
- PROPOSED CONCRETE
- PROPOSED GRASS RESTORATION AREA
- GROUT & ABANDON IN PLACE EX PIPE
- XX — UTILITY CONFLICT NUMBER
- EX WM — EXISTING WATER MAIN
- EX BT — EXISTING BURIED TELEPHONE
- EX OE — EXISTING OVERHEAD ELECTRIC
- EX GAS — EXISTING GAS
- EX VCP SAN — EXISTING VCP SAN
- EX RCP SD — EXISTING RCP SD
- EXISTING STORM MANHOLE

UTILITY NOTES:

1. EXISTING WATER METERS TO BE RELOCATED. CONTRACTOR TO REPLACE WATER METER BOXES. ALL BOXES SHALL BE CONCRETE WITH FIBERGLASS LID PER DETAIL.
2. REFER TO PROPOSED ROADWAY PLANS FOR A COMPLETE SIDEWALK, DRIVEWAY, CURB AND ROADWAY RESTORATION
3. WHEN NEW WATER MAIN CROSSES DIRECTLY UNDER EXISTING VITRIFIED CLAY SEWER PIPE, THE CONTRACTOR SHALL REPLACE EXISTING SEWER PIPE WITHIN THE TRENCH WITH NEW PVC OR DIP, TIE TO EXISTING VC PIPE WITH FERNCO ADAPTOR WITH SHEAR RING, AND INSTALL 57 STONE UNDER THE REPLACED SECTION TO PREVENT DIFFERENTIAL SETTLEMENT.
4. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING SANITARY SEWER LATERALS. IF PROPER COVER IS ACHIEVED, WATER MAIN SHOULD CROSS ABOVE LATERALS WITH MINIMUM VERTICAL SEPARATION OF 6 INCHES. WHEN WATER MAIN MUST CROSS BELOW LATERAL, THE MINIMUM SEPARATION IS 12 INCHES.
5. THE SIZE AND LENGTH OF SANITARY SEWER PIPE TO BE LINED IS TAKEN FROM MANHOLE TO MANHOLE.
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14. CONTRACTOR TO PHASE SEWER LINING TO AVOID DANGER TO EXISTING SYSTEM. ANY DAMAGES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

GRAPHIC SCALE
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RIVIERA BEACH, FL

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20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
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REVISIONS

DATE OF ISSUE
04/15/2026

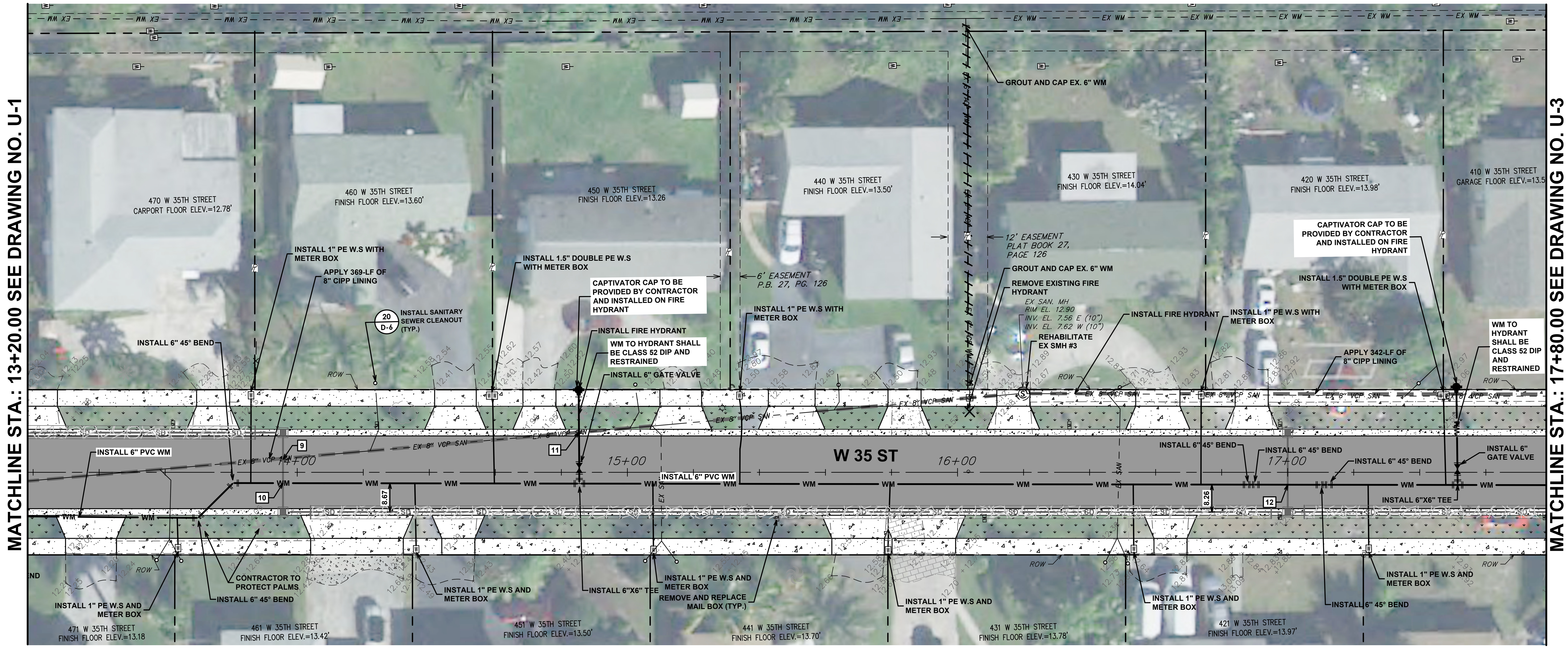
DESIGNED BY
MA

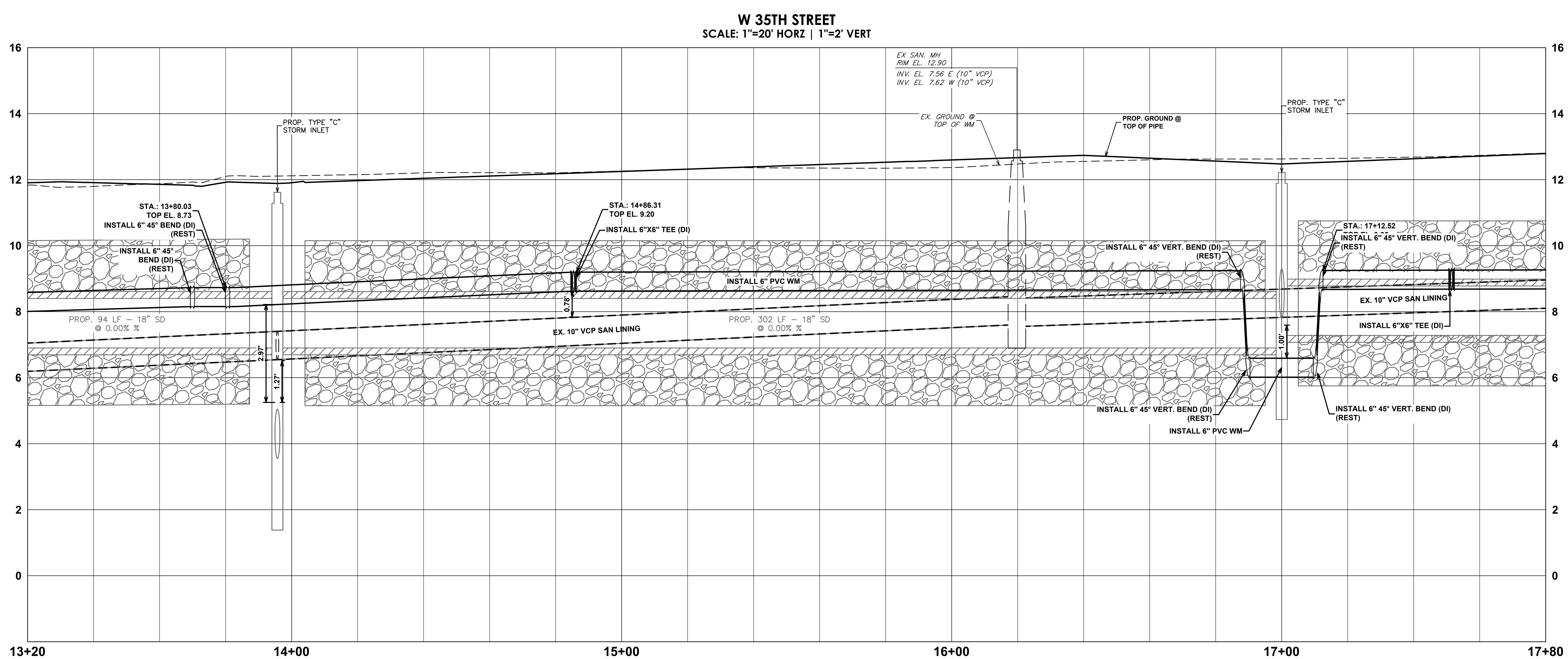
DRAWN BY
JH

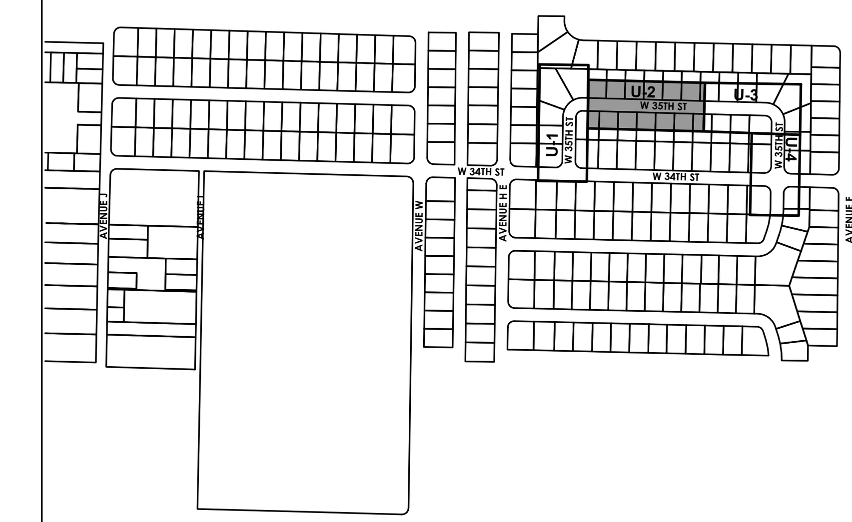
CHECKED BY
SD

DRAWING TITLE
UTILITY PLAN AND PROFILE

DRAWING NUMBER
U-1
11 OF 23







VICINITY MAP

N.T.S.

NORTH

LEGEND:

	PROPOSED SEWER LINING
WM	PROPOSED WATER MAIN
	PROPOSED SERVICE LATERAL
	PROPOSED GATE VALVE
SP#X	SAMPLE POINT
	PROPOSED VERTICAL BEND
	PROPOSED FIRE HYDRANT
W	PROPOSED SINGLE WATER METER
WW	PROPOSED DOUBLE WATER METER
	PROPOSED CATCH BASIN OR INLET
	PROPOSED STORM MANHOLE
SD	PROPOSED STORM DRAIN PIPE
SD	PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
	PROPOSED FULL DEPTH PAVEMENT RESTORATION
	PROPOSED MILL & RESURFACE (1" TYPE S-III)
	PROPOSED CONCRETE
	PROPOSED GRASS RESTORATION AREA
	GROUT & ABANDON IN PLACE EX PIPE
XX	UTILITY CONFLICT NUMBER
EX WM	*EXISTING WATER MAIN*
EX BT	*EXISTING BURIED TELEPHONE*
EX OE	*EXISTING OVERHEAD ELECTRIC*
EX GAS	*EXISTING GAS*
EX VCP SAN	*EXISTING VCP SAN*
EX RCP SD	*EXISTING RCP SD*
	EXISTING STORM MANHOLE

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GRAPHIC SCALE
0 10 20 40
1 INCH = 20 FEET

N

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EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

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REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

UTILITY PLAN AND PROFILE

DRAWING NUMBER

U-2

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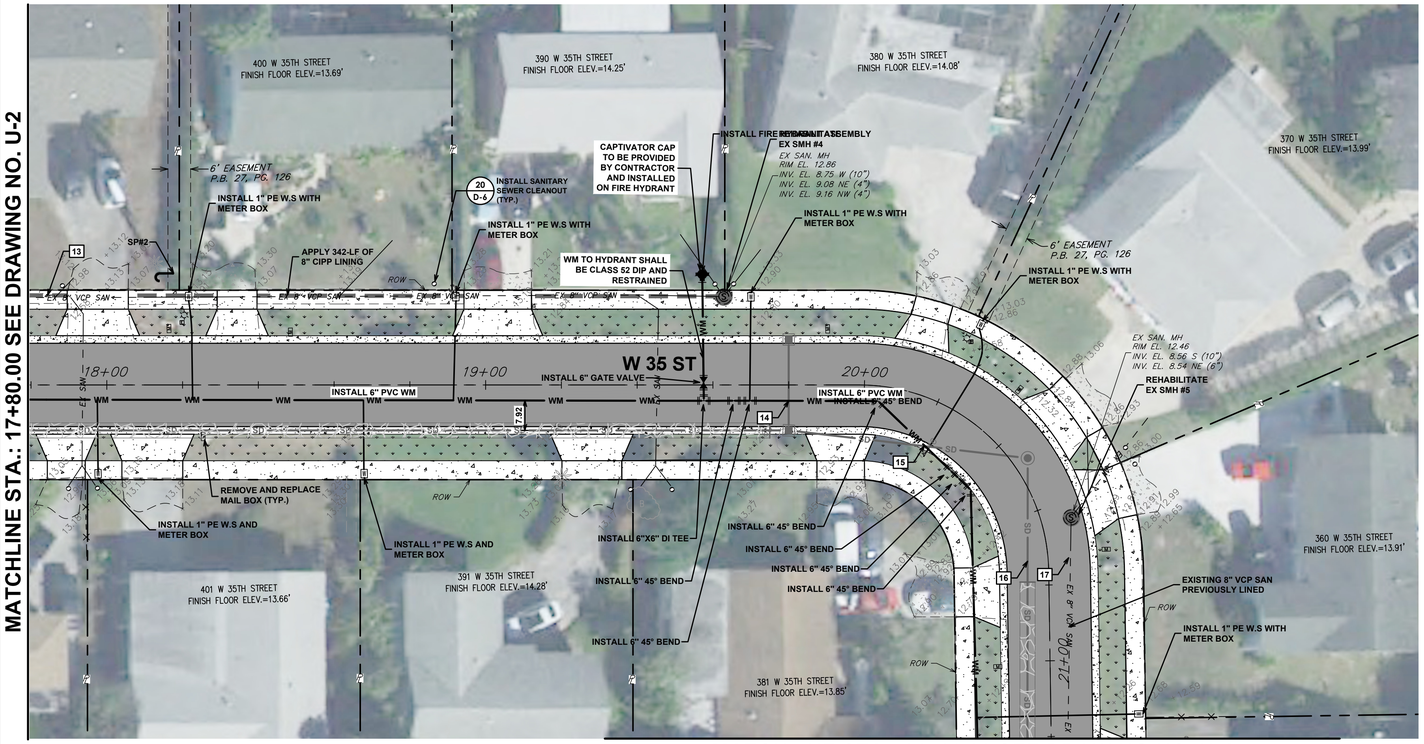

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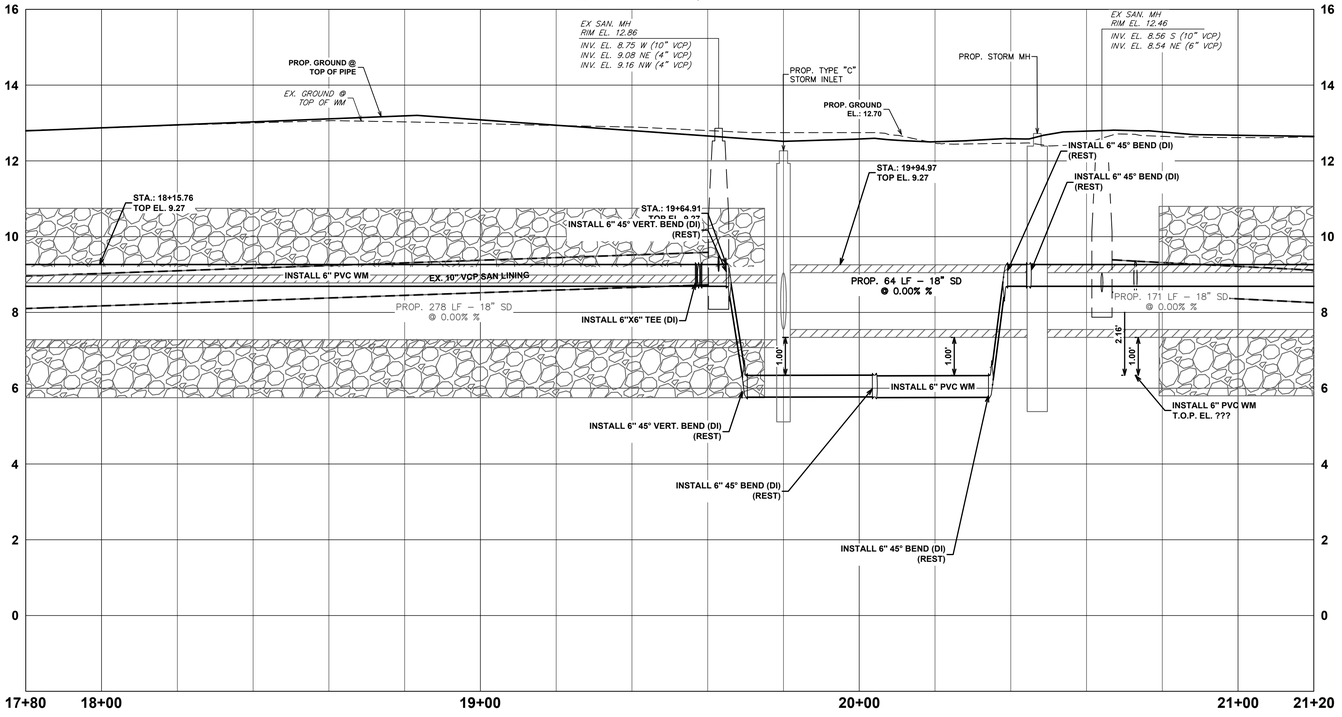
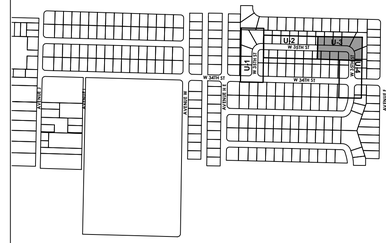
W 35TH STREET
SCALE: 1"=20' HORZ | 1"=2' VERT





VICINITY MAP

N.T.S.

NORTH

LEGEND:

- PROPOSED SEWER LINING
- WM — PROPOSED WATER MAIN
- PROPOSED SERVICE LATERAL
- PROPOSED GATE VALVE
- SP#X — SAMPLE POINT
- PROPOSED VERTICAL BEND
- PROPOSED FIRE HYDRANT
- PROPOSED SINGLE WATER METER
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- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
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- PROPOSED MILL & RESURFACE (1" TYPE S-III)
- PROPOSED CONCRETE
- PROPOSED GRASS RESTORATION AREA
- GROUT & ABANDON IN PLACE EX PIPE
- XX — UTILITY CONFLICT NUMBER
- EX WM — EXISTING WATER MAIN
- EX BT — EXISTING BURIED TELEPHONE
- EX OE — EXISTING OVERHEAD ELECTRIC
- EX GAS — EXISTING GAS
- EX VCP SAN — EXISTING VCP SAN
- EX RCP SD — EXISTING RCP SD
- EXISTING STORM MANHOLE

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GRAPHIC SCALE

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1 INCH = 20 FEET

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REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

UTILITY PLAN AND PROFILE

DRAWING NUMBER
U-3
13 OF 23

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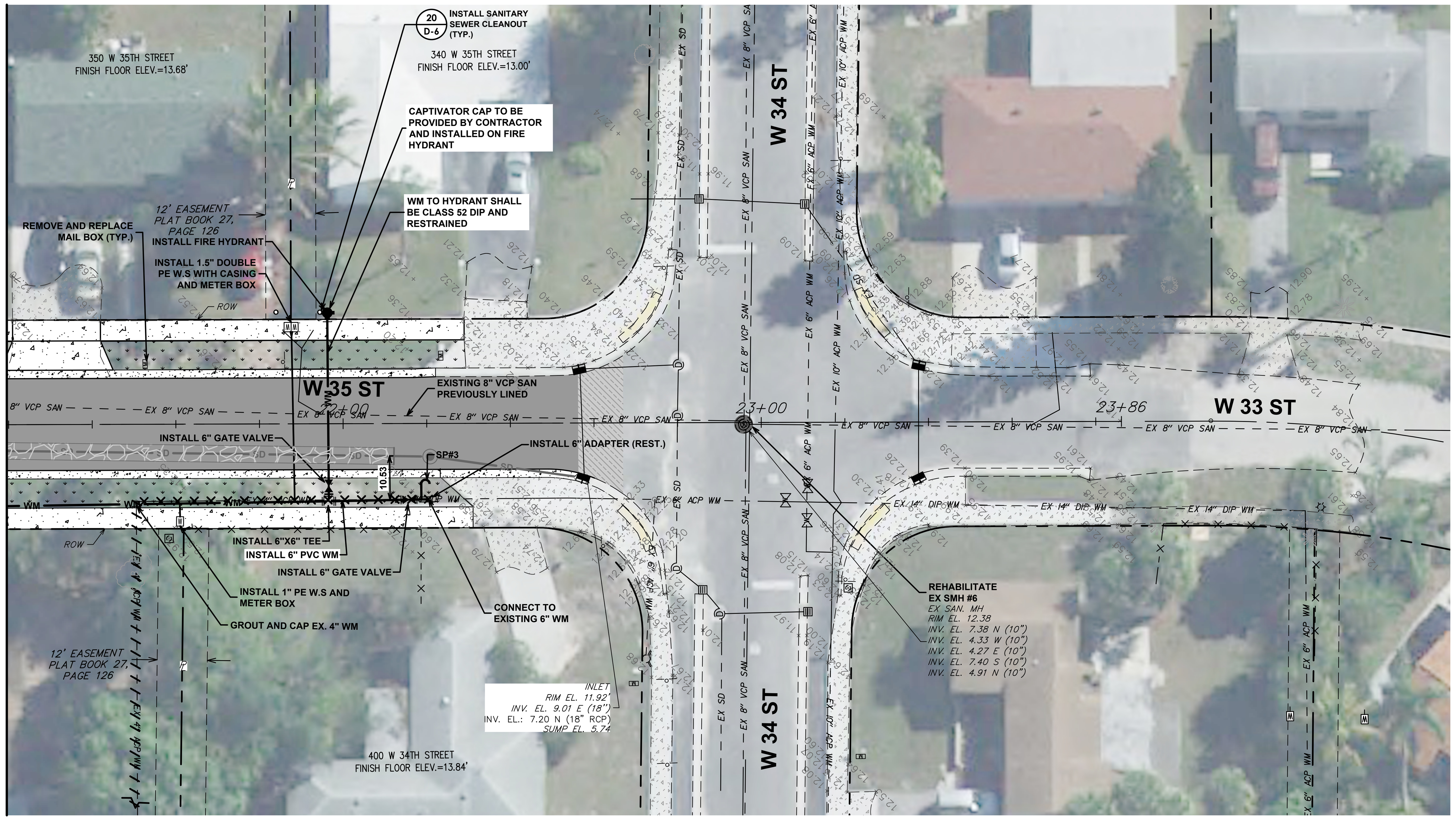

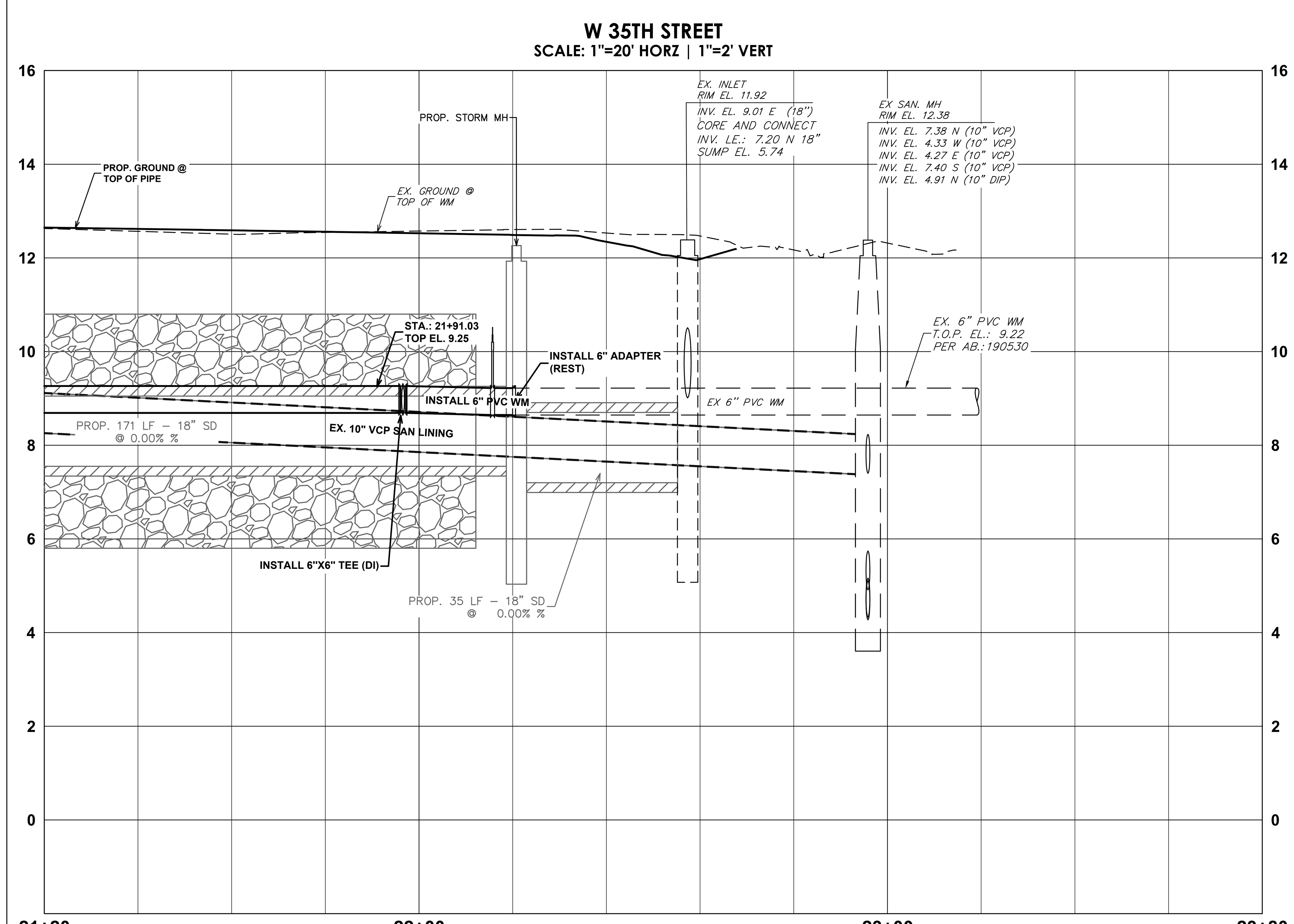

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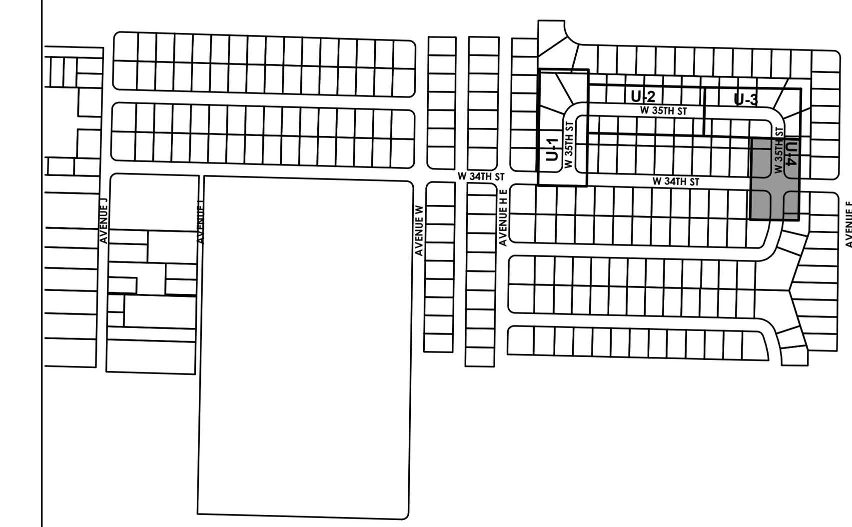

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N.T.S.

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- WM — PROPOSED WATER MAIN
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- EXISTING STORM MANHOLE

UTILITY NOTES:

1. EXISTING WATER METERS TO BE RELOCATED. CONTRACTOR TO REPLACE WATER METER BOXES. ALL BOXES SHALL BE CONCRETE WITH FIBERGLASS LID PER DETAIL.
2. REFER TO PROPOSED ROADWAY PLANS FOR A COMPLETE SIDEWALK, DRIVEWAY, CURB AND ROADWAY RESTORATION
3. WHEN NEW WATER MAIN CROSSES DIRECTLY UNDER EXISTING VITRIFIED CLAY SEWER PIPE, THE CONTRACTOR SHALL REPLACE EXISTING SEWER PIPE WITHIN THE TRENCH WITH NEW PVC OR DIP, TIE TO EXISTING VC PIPE WITH FERNCO ADAPTOR WITH SHEAR RING, AND INSTALL 57 STONE UNDER THE REPLACED SECTION TO PREVENT DIFFERENTIAL SETTLEMENT.
4. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING SANITARY SEWER LATERALS. IF PROPER COVER IS ACHIEVED, WATER MAIN SHOULD CROSS ABOVE LATERALS WITH MINIMUM VERTICAL SEPARATION OF 6 INCHES. WHEN WATER MAIN MUST CROSS BELOW LATERAL, THE MINIMUM SEPARATION IS 12 INCHES.
5. THE SIZE AND LENGTH OF SANITARY SEWER PIPE TO BE LINED IS TAKEN FROM MANHOLE TO MANHOLE.
6. SANITARY SEWER PIPE LINING TO BE CURED IN PLACE.
10. CONTRACTOR SHALL DISPOSE OF ALL MATERIAL FROM DEMOLITION AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL REMOVE ALL VALVE BOXES FROM EXISTING VALVE TO BE ABANDONED PRIOR TO REPAIRING PAVEMENT SURFACE
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS FOR EXISTING WATER MAIN DAMAGED DURING CONSTRUCTION.
13. CONTRACTOR TO LOCATE EXISTING WATER METER AND SERVICE WHERE CALLED OUT IN PLANS AND REPLACE SERVICE METER BOX WITH LIKE SIZE.
14. CONTRACTOR TO PHASE SEWER LINING TO AVOID DANGER TO EXISTING SYSTEM. ANY DAMAGES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

N

GRAPHIC SCALE

0 10 20 40

1 INCH = 20 FEET

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www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
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REVISIONS

DATE OF ISSUE
04/15/2026

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MA

DRAWN BY
JH

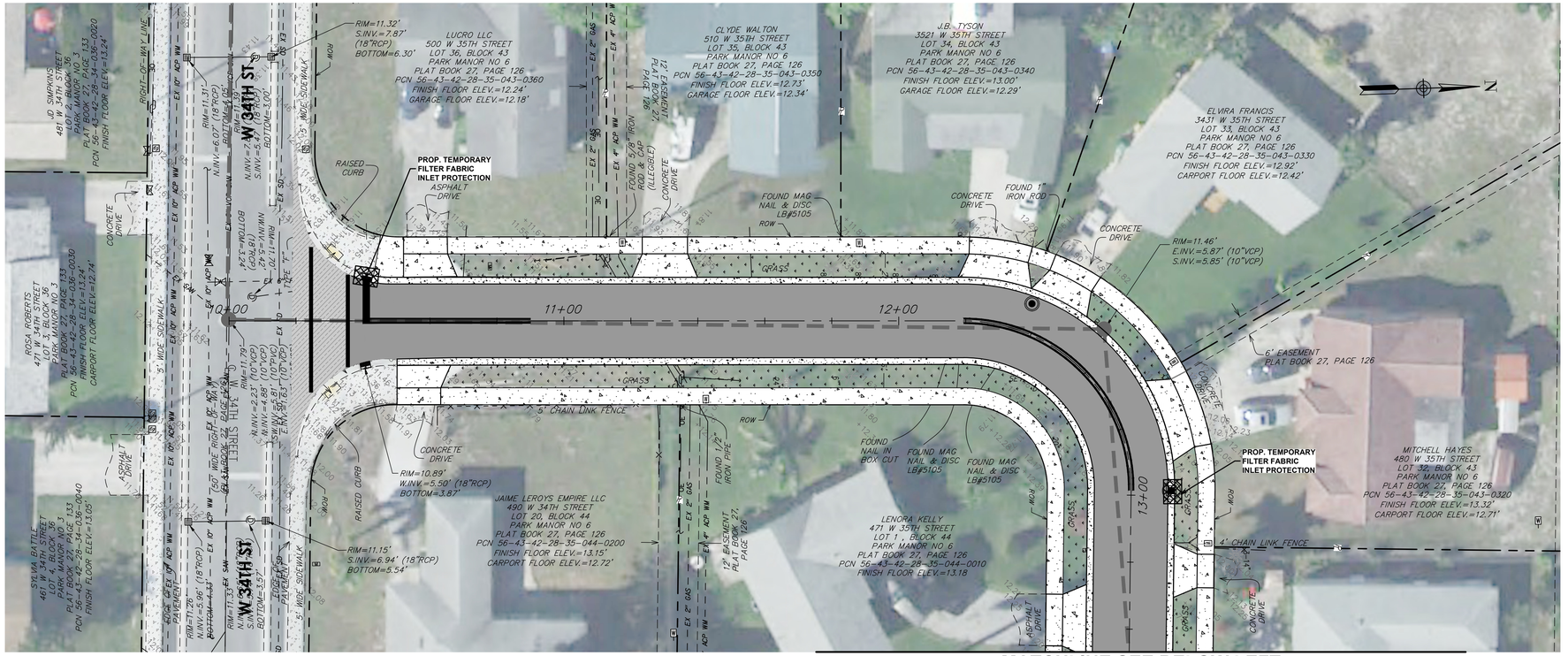
CHECKED BY
SD

DRAWING TITLE

UTILITY PLAN AND PROFILE

DRAWING NUMBER

U-4



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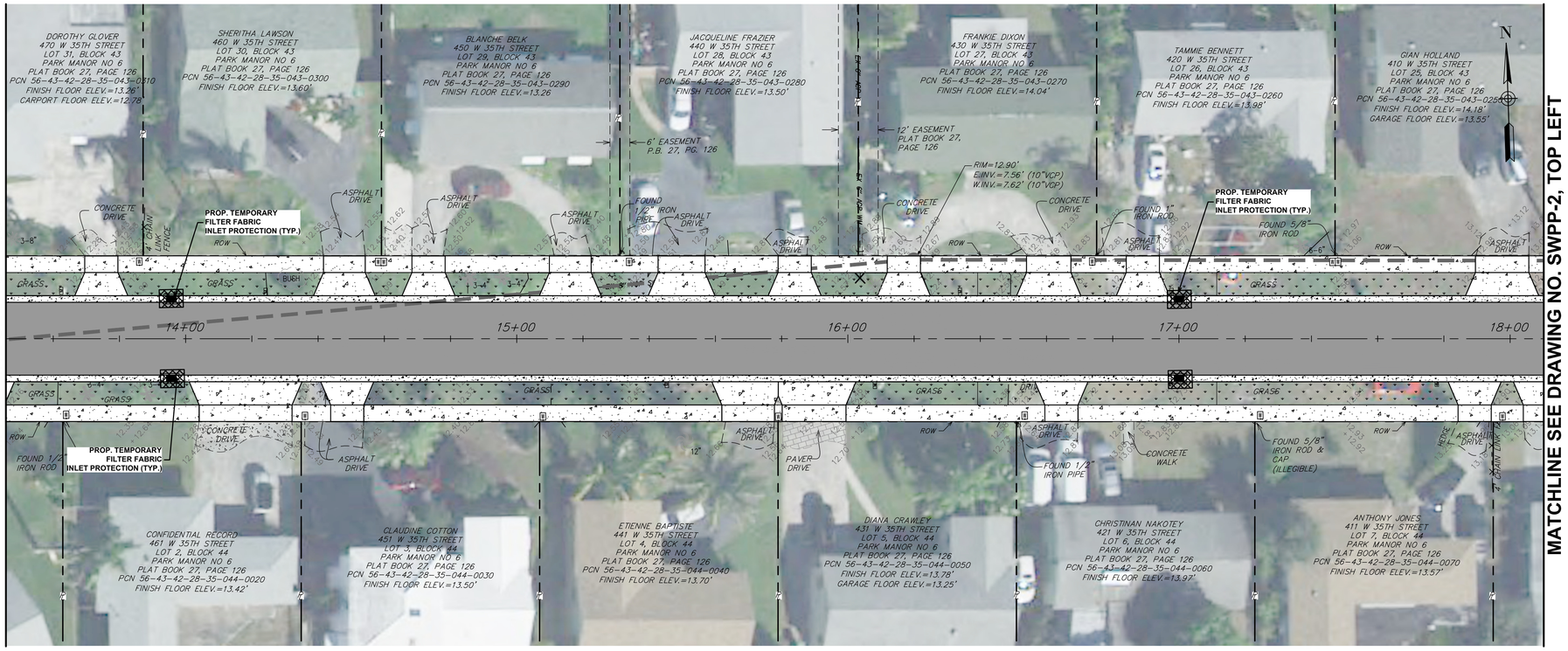

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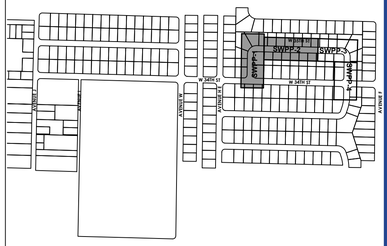

VICINITY MAP

N.T.S.

LEGEND

- PLAT LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- CENTER LINE
- EASEMENT LINE
- EXISTING STORM DRAIN PIPE
- EXISTING WATER MAIN PIPE
- EXISTING WATER SERVICE LATERAL
- EXISTING SANITARY SEWER PIPE
- EXISTING SEWER SERVICE LATERAL
- EXISTING ELEVATION
- EXISTING FENCE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER METER
- EXISTING CATCH BASIN
- EXISTING GUYWIRE ANCHOR
- EXISTING TREE
- EXISTING PINE TREE
- EXISTING PALM TREE
- EXISTING SPOTLIGHT AND/OR FLOODLIGHT
- EXISTING SIGN
- EXISTING SHRUB/HEDGE
- EXISTING STORM MANHOLE
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED FULL DEPTH PAVEMENT RESTORATION
- PROPOSED MILL & RESURFACE(1" TYPE S-III)
- PROPOSED CONCRETE
- PROPOSED SOD
- TEMPORARY FILTER FABRIC INLET PROTECTION

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GRAPHIC SCALE

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RIVIERA BEACH, FL

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20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
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REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

STORMWATER POLLUTION PREVENTION PLAN

DRAWING NUMBER

SWPP-1

15 OF 23

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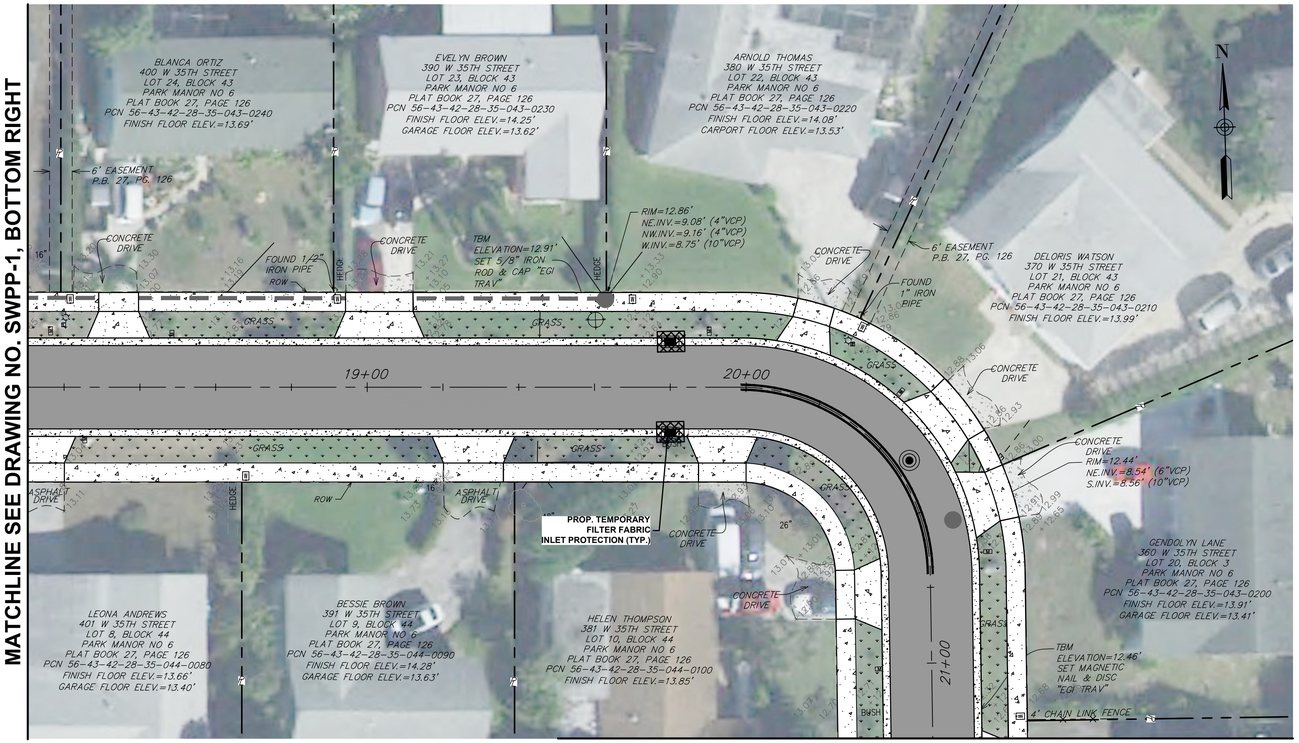

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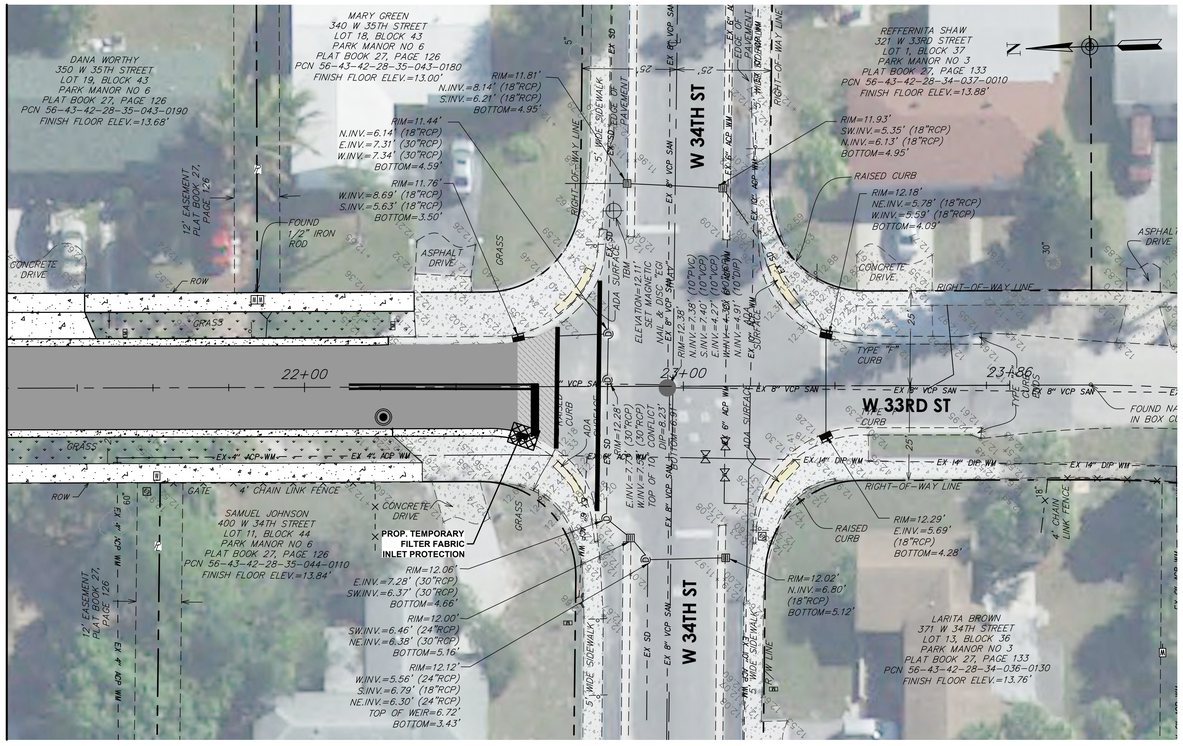

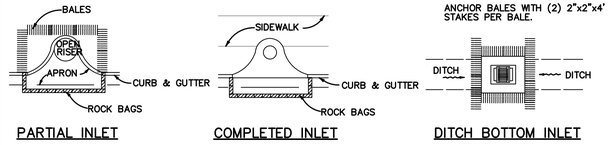

FOR ADDITIONAL INFORMATION REFERENCE FDOT INDEX 102

INLET PROTECTION
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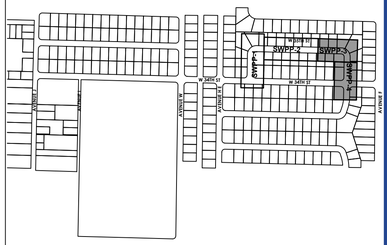

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N.T.S.

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- EXISTING WATER MAIN PIPE
- W — EXISTING WATER SERVICE LATERAL
- EX SAN — EXISTING SANITARY SEWER PIPE
- S — EXISTING SEWER SERVICE LATERAL
- x 00.00' EXISTING ELEVATION
- x — x EXISTING FENCE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER METER
- EXISTING CATCH BASIN
- EXISTING GUYWIRE ANCHOR
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PALM BEACH COUNTY, FL.

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RIVIERA BEACH, FL

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DATE OF ISSUE
04/15/2026

DESIGNED BY
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DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
STORMWATER POLLUTION PREVENTION PLAN

DRAWING NUMBER
SWPP-2
16 OF 23

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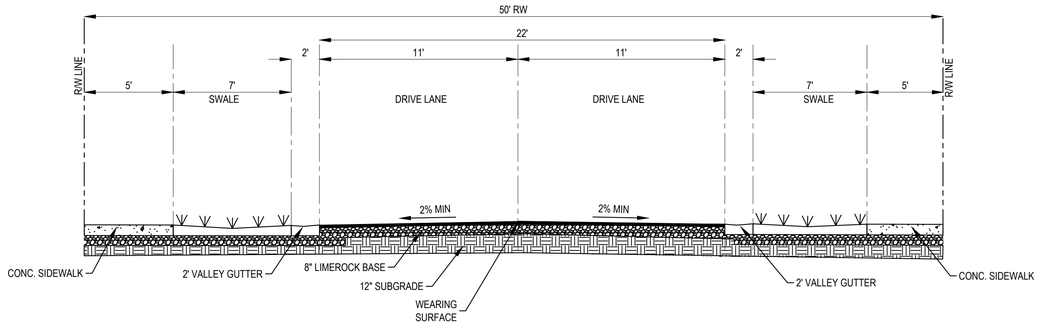

1 ROADWAY TYPICAL SECTION - 50' R/W 35TH STREET

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TYPICAL SECTION

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TS-1
17 OF 23

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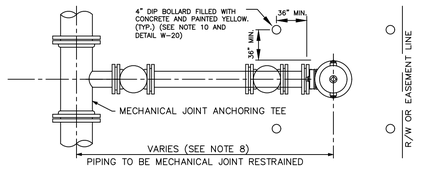
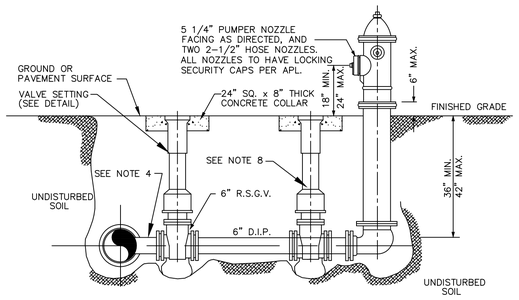
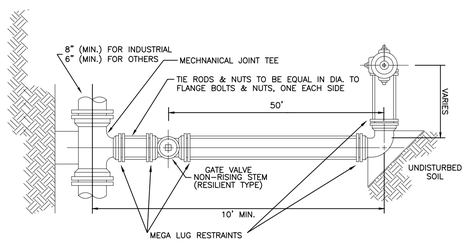
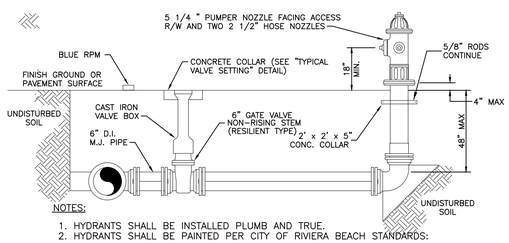




NOTES:
1. HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
2. THE MODEL AND COLOR SHALL BE PER RBUSD REQUIREMENTS.
3. VALVE SHALL BE PLACED ADJACENT TO MAIN, TIED TO TEE
4. MECHANICAL JOINT ANCHORING FITTINGS WILL BE USED AS NOTED.
5. ALL HYDRANTS SHALL BE TEE'D OFF OF MAINS.
6. HYDRANTS SHALL NOT BE PLACED IN OR INTERFERE WITH SIDEWALKS, ROADWAYS OR BIKE PATHS.
7. ALL JOINTS TO BE MECHANICALLY RESTRAINED.
8. ANY FIRE HYDRANT THAT IS INSTALLED 50 FEET OR MORE FROM THE MAIN WILL REQUIRE AN ADDITIONAL VALVE & BOX AT THE HYDRANT.
9. NO CONNECTIONS ARE ALLOWED ON THE FIRE HYDRANT LATERAL.
10. BOLLARDS MAY BE REQUIRED FOR HYDRANTS WITH LESS THAN 7 FEET TO EDGE OF PAVEMENT (WITHOUT RAISED CURBING). NO BOLLARDS SHALL BE INSTALLED IN THE RIGHT-OF-WAY "CLEAR ZONE".

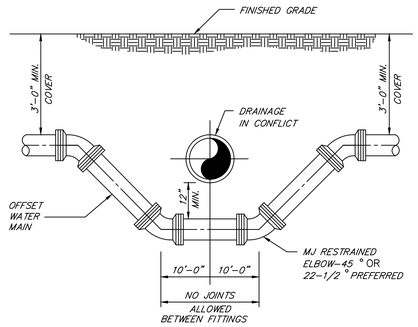
1 TYPICAL FIRE HYDRANT ASSEMBLY
N.T.S.





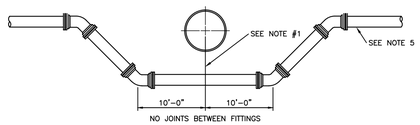
NOTES:
1. HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE.
2. HYDRANTS SHALL BE PAINTED PER CITY OF RIVIERA BEACH STANDARDS: RED BODY REFLECTIVE AND WHITE CAP REFLECTIVE
3. HEEL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
4. FIRE HYDRANTS SHALL BE THE FOLLOWING OR APPROVED EQUAL:
   A) KENNEDY
   B) AMERICAN-DARLING
   C) MUELLER BREAK-A-WAY
   D) CLOW
5. JOINTS TO BE RESTRAINED
6. WHEN DISTANCE BETWEEN VALVE AND HYDRANT EXCEED 50 FEET INSTALL SECOND VALVE.

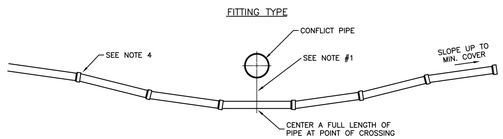
7 FIRE HYDRANT INSTALLATION DETAILS STANDARD DETAIL
N.T.S.



NOTE: WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED ON 6" OR SMALLER MAINS.

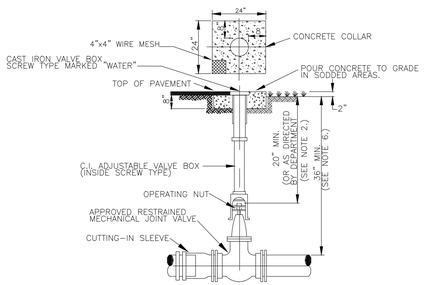
2 GENERAL - TYPICAL CONFLICT DETAIL
N.T.S.





NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. PROVIDE 12" MINIMUM VERTICAL SEPARATION FOR NEW WATERMAIN UNDER CONFLICT PIPE.
2. ONE OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED FROM FITTING TO FITTING FOR PIPE SIZES UP TO AND INCLUDING 12", FOR PIPE SIZES GREATER THAN 12" BOTH FORMS OF RESTRAINT SHALL BE USED.
   A) APPROVED MECHANICAL JOINT RESTRAINT. (i.e. MEGALUG)
   B) TIE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED, BUT IN INSTANCES WHERE THE FITTING TYPE DEFLECTION IS USED, 22 1/2° BENDS ARE PREFERRED.
4. DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. PIPE SHALL BE RESTRAINED FOR A MINIMUM DISTANCE OF 60' FROM EACH TOP DEFLECTION. SEE "PIPE RESTRAINT TABLE" DETAIL FOR ADDITIONAL RESTRAINT DISTANCES FOR PIPE GREATER THAN 12".

4 PRESSURE PIPE DEFLECTION STANDARD DETAIL
N.T.S.

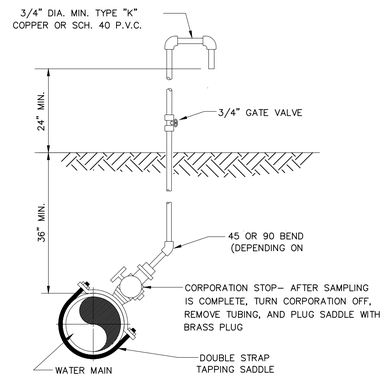


NOTES:
1. CONCRETE COLLAR IS NOT REQUIRED IN PAVED AREAS IF PAVEMENT SURFACE IS FINISHED PRIOR TO CONDITIONAL FINAL INSPECTION.
2. WHEN OPERATING NUT IS DEEPER THAN 36" A ONE PIECE EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 20"-30" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS ARE TO BE STAINLESS STEEL. A HIGH STRENGTH STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
3. VALVE BOXES SHALL HAVE COVERS MARKED "WATER".
4. VALVE BOX EXTENSION TO BE D.I.P. OR C-900 PVC SDR 18 (BLUE)
5. A CUT-IN INSTALLATION SHALL REQUIRE MEGALUGS OR EQUAL THROUGHOUT ASSEMBLY.
6. IN ORDER TO MAINTAIN ADEQUATE COVER OVER VALVE NUT, THE FOLLOWING MINIMUM COVERS OVER PIPE ARE REQUIRED

GATE VALVE SIZE	MIN. COVER OVER PIPE
16"	48"
20"	54"
24"	60"
30"	72"
36"	84"

8 TYPICAL GATE VALVE SETTINGS AND CUT-IN DETAIL STANDARD DETAIL
N.T.S.

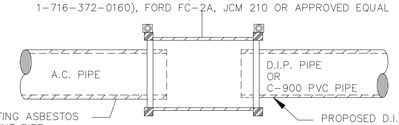
AFTER SATISFACTORY BACTERIOLOGICAL TESTING, REMOVE THE TUBING AND CORPORATION AND PLUG THE MAIN. TUBING IS TO BE REMOVED.



NOTE:
WHENEVER POSSIBLE, SERVICE TAPS OR FIRE HYDRANTS (SEE "SAMPLE POINT (HYDRANT)" DETAIL) SHALL BE USED AS SAMPLE POINTS.

3 SAMPLE POINT (ON MAIN) STANDARD DETAIL
N.T.S.

HYMAX - 2000 COUPLING, (TOTAL PIPING SOLUTIONS, INC. 1-716-372-0160), FORD FC-2A, JCM 210 OR APPROVED EQUAL



NOTES:
1. PREPARE THE PIPE ENDS TO A DISTANCE OF AT LEAST 3 INCHES BEYOND THE LENGTH OF THE COUPLING. PIPE PREPERATION WILL CONSIST OF CLEANING AND DE-SCALING EACH PIPE END, REMOVING ANY DEBRIS OR BUILD UP ON THE PIPE ENDS AND CLEAN THE OUTER PIPE SURFACE WITH SOAPY WATER.
2. THE END CAP IS LEFT BETWEEN THE PIPE ENDS. A PIPE END GAP OF AT LEAST 2 INCHES IS REQUIRED BETWEEN THE PIPE ENDS TO PREVENT CENTERING PIN AND PIPE INTERFACE.
3. USE OF A TORQUE WRENCH IS MANDATORY ACCORDING TO MANUFACTURER RECOMMENDATIONS.

5 PIPE TRANSITION DETAIL STANDARD DETAIL
N.T.S.

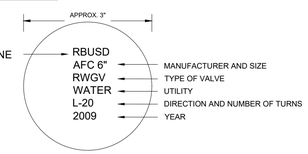
MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED
(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND DIPRA THRUST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2)

FITTING TYPE		PIPE SIZE 4"	6"	8"	10"	12"	16"	20"	24"	200psi 30"	36"	42"	48"
90° HORIZ. BEND		14	20	25	30	35	45	54	62	98	112	124	135
45° HORIZ. BEND		6	8	11	13	15	19	22	26	41	46	51	56
22.5° HORIZ. BEND		3	4	5	6	7	9	11	12	19	22	25	27
11.25° HORIZ. BEND		1	2	3	3	4	4	5	6	10	11	12	13
90° VERT. OFFSET	UPPER BEND	29	41	53	64	74	95	115	134	214	246	276	304
	LOWER BEND	7	10	13	16	19	25	30	35	57	66	74	83
45° VERT. OFFSET	UPPER BEND	12	19	24	29	34	39	48	56	89	102	114	126
	LOWER BEND	3	4	6	7	8	10	12	15	23	27	31	34
22.5° VERT. OFFSET	UPPER BEND	6	9	12	14	17	19	23	27	43	49	55	60
	LOWER BEND	1	2	4	4	4	5	6	7	11	13	15	16
11.25° VERT. OFFSET	UPPER BEND	3	4	6	7	8	9	11	13	21	24	27	30
	LOWER BEND	1	1	1	2	2	2	3	3	6	6	7	8
PLUG (DEAD END)		32	45	59	70	83	107	129	151	214	246	276	304
IN-LINE VALVE		32	45	45	45	45	55	65	80	110	125	140	155
TEE (BRANCH RESTRAINT)	4"X ø	23	–	–	–	–	–	–	–	–	–	–	–
	6"X ø	21	35	–	–	–	–	–	–	–	–	–	–
	8"X ø	18	34	47	–	–	–	–	–	–	–	–	–
	10"X ø	16	32	46	58	–	–	–	–	–	–	–	–
	12"X ø	13	30	44	57	69	–	–	–	–	–	–	–
	16"X ø	7	26	41	55	67	90	–	–	–	–	–	–
	20"X ø	1	21	38	52	65	88	109	–	–	–	–	–
	24"X ø	1	16	34	49	62	86	108	129	–	–	–	–
	30"X ø	1	8	28	44	58	83	106	127	208	–	–	–
	36"X ø	1	1	22	39	54	80	103	124	206	240	–	–
	42"X ø	1	1	15	33	49	77	100	122	205	239	270	–
	48"X ø	1	1	7	27	44	73	97	120	203	238	269	298
REDUCER (LARGER PIPE RESTRAINT)	6"X ø	23	–	–	–	–	–	–	–	–	–	–	–
	8"X ø	38	25	–	–	–	–	–	–	–	–	–	–
	10"X ø	57	43	24	–	–	–	–	–	–	–	–	–
	12"X ø	72	60	44	41	–	–	–	–	–	–	–	–
	16"X ø	99	90	78	75	45	–	–	–	–	–	–	–
	20"X ø	123	116	107	105	81	45	–	–	–	–	–	–
	24"X ø	146	140	132	131	111	82	45	–	–	–	–	–
200psi	30"X ø	209	204	197	188	177	153	116	75	–	–	–	–
	36"X ø	243	236	233	226	217	196	168	135	74	–	–	–
	42"X ø	273	270	265	259	252	234	211	183	133	72	–	–
	48"X ø	301	298	294	289	283	268	249	226	183	131	71	–

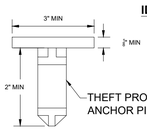
NOTES:
1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
   SOIL TYPE-SAND TEST PRESSURE-150 PSI/200 PSI DEPTH OF BURY-3'
   TRENCH TYPE-3 SAFETY FACTOR- 1.5 VERTICAL OFFSET-3'
   MINIMUM PIPE LENGTH ALONG TEE RUN-5'
2. THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
4. RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF VALVES AND FITTINGS.
5. MULTIPLY PIPE LENGTH BY 1.4 FOR POLYETHYLENE ENCASED PIPE.

6 MECHANICAL THRUST RESTRAINT MINIMUM PIPE LENGTHS STANDARD DETAIL
N.T.S.

OUTSIDE PAVEMENT



IDENTIFICATION DISC EXAMPLE



DISC TO BE EMBEDDED IN PAD

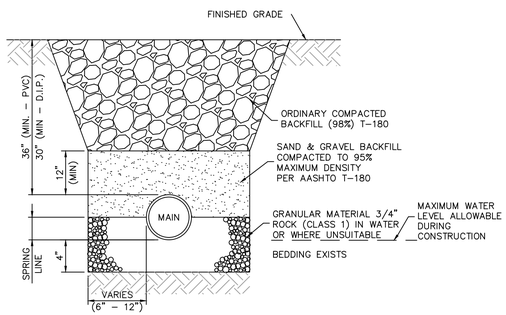
OUTSIDE PAVEMENT

DISC TO BE HANGING IN THE BOX ANCHORED TO THE LOCATING WIRE.

INSIDE PAVEMENT

NOTES:
1. BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
2. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (SQUARE) POURED CONCRETE PAD WITH TWO #4 REBAR AROUND PERIMETER MAY BE USED.

9 TYPICAL VALVE IDENTIFICATION TAG STANDARD DETAIL
N.T.S.



10 GENERAL - PIPE TRENCH SECTION
N.T.S.

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CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

DETAILS

DRAWING NUMBER
D-1
18 OF 23

BID SET

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
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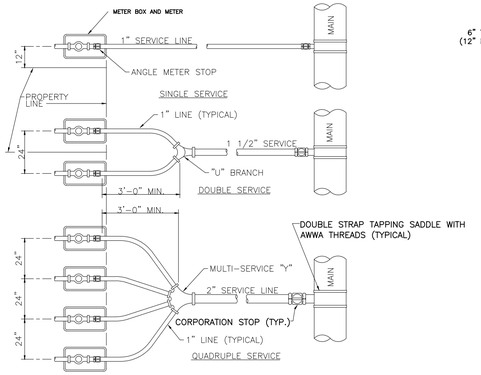
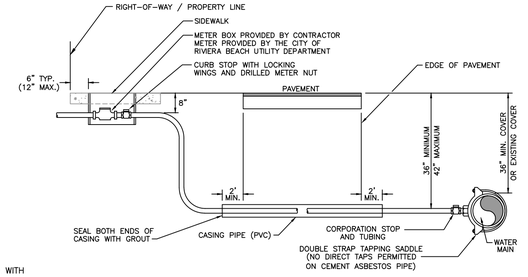


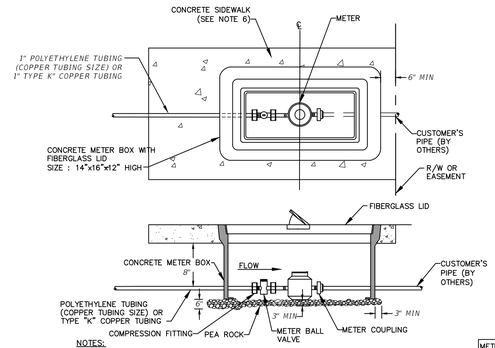
NOTES:
1. AUTHORIZED SERVICE LINE MATERIAL:
   A) TYPE "K" COPPER TUBING WITH COMPRESSION FITTINGS.
   B) POLYETHYLENE TUBING SDR 9, COPPER TUBE SIZE.
2. ANGLE METER STOP SHALL BE 1" MINIMUM.
3. 1" ANGLE METER STOPS WITH 3/4" VALVES SHALL NOT BE PERMITTED.
4. MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" DIAMETER SHALL BE HANDLED ON AN INDIVIDUAL BASIS.
5. ANGLE METER STOPS 1 1/2" AND 2" IN SIZE SHALL BE PROVIDED WITH BOTH A LOCKING CAP AND METER FLANGE.
6. NO FITTINGS BETWEEN CORP STOP AND ANGLE METER STOP ALLOWED WHEN USING POLYETHYLENE TUBING.
7. 1" WATER SERVICE FOR 5/8" METER; 1 1/2" WATER SERVICE FOR (2) 5/8" METERS; 2" WATER SERVICE FOR 1" METER OR (4) 5/8" METERS.

11 TYPICAL WATER SERVICES STANDARD DETAIL
N.T.S.



NOTES:
1. CASINGS SHALL BE REQUIRED FOR ALL LONG SIDE SERVICES AND ANY SERVICES UNDER PAVEMENT.
2. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET.
3. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE.
4. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.
5. USE EMS MARKER #1252 COLOR BLUE DIRECTLY OVER THE CORPORATION STOP, AS APPROVED BY THE CITY OF RIVIERA BEACH.
6. ALL SERVICE LINES SHALL BE EQUIPPED WITH A CORPORATION STOP AT THE MAIN AND A CURB STOP (LOCKING CONNECTION TYPE) AT THE METER.
7. THE COPPER SERVICE LINE SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP WITH NO FITTINGS IN BETWEEN. POLYETHYLENE TUBING SHALL BE SDR 9, COPPER TUBE SIZE.
8. TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE AWWA INLET THREADS. TAPPING SADDLES SHALL BE BRASS WITH STAINLESS STEEL (TYPE 304) DOUBLE BANDS AND THREADED STUDS.
9. ALL EXPOSED FITTINGS TO BE COATED WITH COAL TAR EPOXY.
10. GALVANIZED CASING REQUIRED FOR ANY INSTALLATION REQUIRING A JACK AND BORE, SCH. 40 PVC MAY BE USED FOR AN OPEN CUT INSTALLATION WITH THE APPROVAL OF THE CITY OF RIVIERA BEACH UTILITIES DEPARTMENT CASING SHOULD EXTEND TWO (2) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS:
    A.) 1" SERVICE USE 2" CASING
    B.) 1 1/2" SERVICE USE 3" CASING
    C.) 2" SERVICE USE 4" CASING

12 TYPICAL WATER SERVICE INSTALLATION FOR 1", 1-1/2" & 2" STANDARD DETAIL
N.T.S.

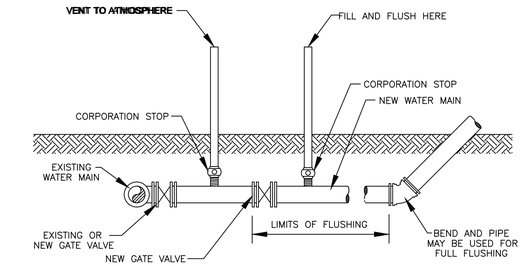


NOTES:
1. ALL STRUCTURES TO BE TRAFFIC BEARING TYPE.
2. R/W LINE OR EASEMENT LINE IS THE CUSTOMER'S SIDE OF METER BOX.
3. RBUD RESPONSIBILITY ENDS AT THE CUSTOMER'S SIDE OF METER.
4. CURVE IN SERVICE LINE SHALL BE AS CLOSE TO METER BOX AS PRACTICAL, WITH A MINIMUM RADIUS SHALL BE 14" FOR 1" TUBING.
5. ALL METERS WILL BE SUPPLIED AND INSTALLED BY RBUD. METER HAS IRON PIPE THREAD MALE CONNECTION ON EACH END.
6. WHEN SIDEWALKS ARE PRESENT, OR PLANNED FOR IN THE R/W, THE BACK EDGE OF THE METER BOX SHALL LINE UP WITH THE BACK EDGE OF THE SIDEWALK.
7. METER SHALL BE CENTERED IN BOX DIRECTLY UNDER THE ACCESS LID.
8. WHEN THERE ARE NO SIDEWALKS, CONSTRUCT 6" WIDE X 6" THICK CONCRETE COLLAR AT GRADE.
9. METER BOX SHALL HAVE FIBERGLASS LID.

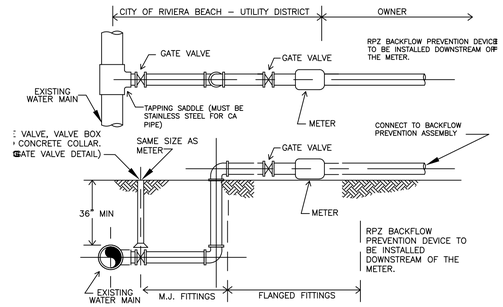
METER SIZE	LAYING LENGTH (IN)	HEIGHT (IN)
5/8"	7.5	4.56
1"	10.75	5.75

METER SIZE	BOX SIZE (IN)	DBL BOX SIZE (IN)
5/8"	10 3/4" X 16 3/4"	10 X 20 X 12
1"	12" X 20"	

13 WATER METER INSTALLATION FOR 5/8" AND 1" METERS STANDARD DETAIL
N.T.S.

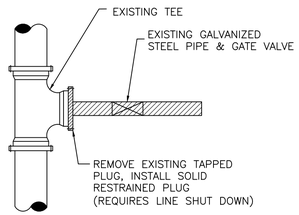


14 FILLING & FLUSHING DETAIL STANDARD DETAIL
N.T.S.

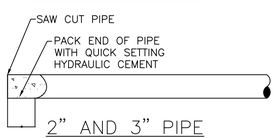


NOTES:
1. ALL SERVICE PIPING SHALL BE DI PIPE THE SAME SIZE AS METER.
2. ALL FITTINGS FLANGED WITH MEGALUGS OR EQUAL.
3. METER SERVICE SHALL NOT BE INSTALLED UNTIL:
   A – FORM BOARDS FOR DRIVEWAY AND/OR SIDEWALK ARE IN PLACE, OR
   – DIRVEWAY OR SIDEWALK IS IN PLACE, OR
   – "FINISHED GRADE" STAKE IS SET ADJACENT TO PROPOSED METER BOX LOCATION.
   B – THE REQUIRED BACKFLOW PREVENTION DEVICE IS INSTALLED.
4. INSTALLATION OF THE DOMESTIC SERVICE METER AND METER BOX WILL BE PERFORMED BY THE CITY OF RIVIERA BEACH–UTILITY DISTRICT. THE DOMESTIC TAP ON TH EXISTING MAIN HAS TO BE DONE BY THE CONTRACTOR IF THE TAP IS 4" AND ABOVE .THE OWNER SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND MAINTAINANCE DOWNSTREAM OF THE DOMESTIC METER.

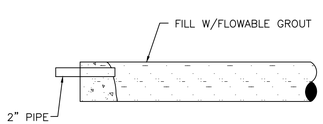
18 WATER METER DETAIL FOR 4" & GREATER STANDARD DETAIL
N.T.S.



LIVE LINE SEALING
2" AND 3" G.S.P.

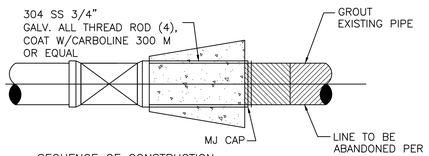


2" AND 3" PIPE



NOTES:
1. INSTALL 2" PIPE AT BOTH ENDS OF LINE TO BE ABANDONED. GROUT IN PLACE WITH QUICK SETTING HYDRAULIC CEMENT.
2. PUMP FLOWABLE GROUT FROM ONE END, OR INTERMEDIATE POINTS ALONG THE PIPELINE, UNTIL PIPE IS FILLED AS WITNESSED BY THE DISCHARGE FROM 2" PIPE(S). REMOVE 2" PIPE AND FILL WITH QUICK SETTING HYDRAULIC CEMENT.

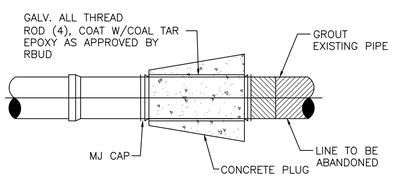
4" AND LARGER PIPE



SEQUENCE OF CONSTRUCTION

1. RESTRAIN VALVE
2. REMOVE EXISTING PIPE
3. INSTALL PLUG INTO BELL OF VALVE
4. POUR CONCRETE PLUG

AT EXISTING VALVE

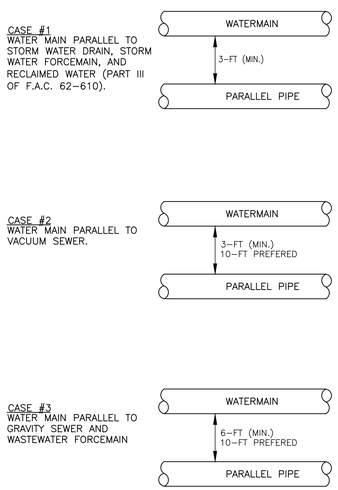


1. CONTRACTOR TO PROVIDE TEMPORARY RESTRAINT AS REQUIRED.

AT FITTING ALONG RUN

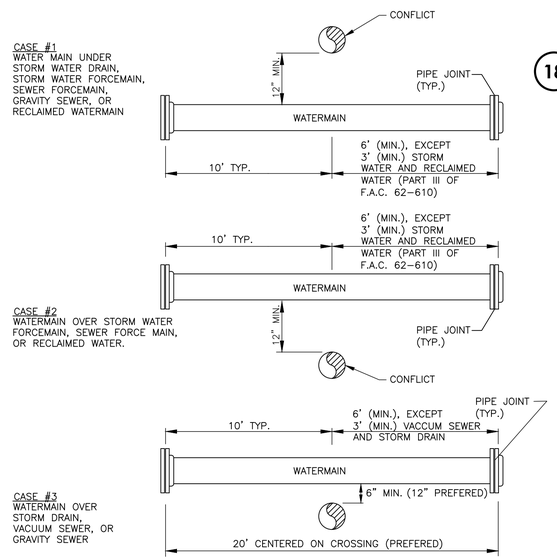
LIVE LINE SEALING
4" AND LARGER

15 PIPE TO BE PLACED OUT OF SERVICE STANDARD DETAIL
N.T.S.



NOTE: THIS DETAIL REPRESENT THE REQUIRED SEPARATION OF WATERMAINS TO OTHER PIPING SYSTEM, AS REQUIRED BY F.A.C. 62–555.314 AND WHICH SHALL PREVAIL OVER THESE DETAIL.

16 HORIZONTAL SEPARATION DETAIL
N.T.S.



NOTE: THIS DETAIL REPRESENT THE REQUIRED SEPARATION OF WATERMAINS TO OTHER PIPING SYSTEM, AS REQUIRED BY F.A.C. 62–555.314 AND WHICH SHALL PREVAIL OVER THESE DETAIL.

17 VERTICAL SEPARATION DETAIL
N.T.S.

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Plot Date: 4/24/2026 1:56:30 PM Username: jgoldberg Layout Name: D-2
Folder Path: V:\Projects\2020\20-221.022 - W 34th St & W 35th St CDBG Improvements\Design\CAD 35st\Sheets Filename: 20-221.022 Details.dwg

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CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

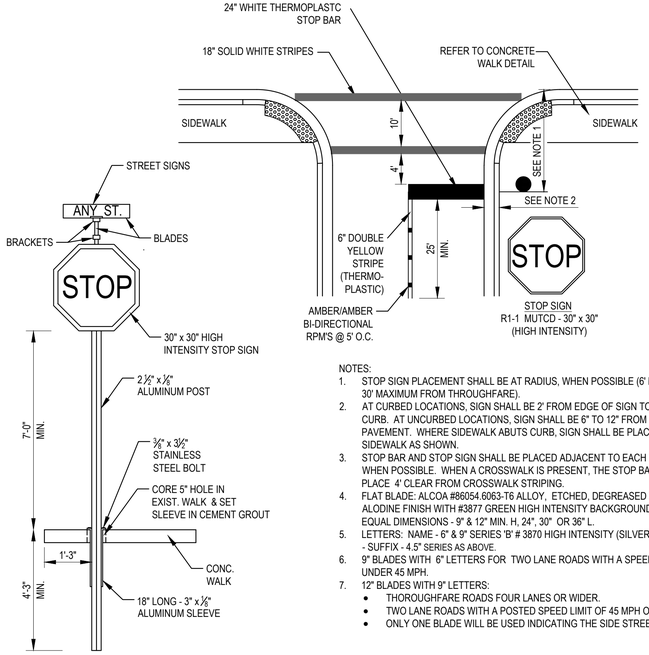
DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
DETAILS

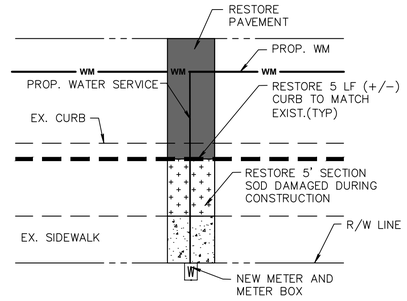
DRAWING NUMBER
D-2
19 OF 23

BID SET



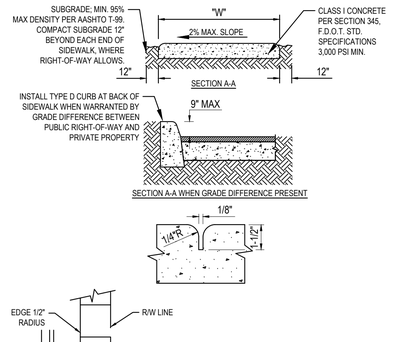
NOTES:
1. STOP SIGN PLACEMENT SHALL BE AT RADIUS, WHEN POSSIBLE (6' MINIMUM / 30' MAXIMUM FROM THROUGHFARE).
2. AT CURBED LOCATIONS, SIGN SHALL BE 2' FROM EDGE OF SIGN TO FACE OF CURB. AT UNCURBED LOCATIONS, SIGN SHALL BE 6" TO 12" FROM EDGE OF PAVEMENT. WHERE SIDEWALK ABUTS CURB, SIGN SHALL BE PLACED IN SIDEWALK AS SHOWN.
3. STOP BAR AND STOP SIGN SHALL BE PLACED ADJACENT TO EACH OTHER, WHEN POSSIBLE. WHEN A CROSSWALK IS PRESENT, THE STOP BAR SHALL BE PLACE 4' CLEAR FROM CROSSWALK STRIPING.
4. FLAT BLADE: ALCOA #86054.6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200 ALODINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30" OR 36" L.
5. LETTERS: NAME - 6" & 9" SERIES 'B' # 3870 HIGH INTENSITY (SILVER) OR EQUAL - SUFFIX - 4.5" SERIES AS ABOVE.
6. 9" BLADES WITH 6" LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH.
7. 12" BLADES WITH 9" LETTERS:
   - THOROUGHFARE ROADS FOUR LANES OR WIDER.
   - TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE.
   - ONLY ONE BLADE WILL BE USED INDICATING THE SIDE STREET NAME.

1 STOP SIGN AND STOP BAR
N.T.S.



NOTES:
1. SAWCUT ALL EXIST. PAVEMENT, SIDEWALK AND CURB SUBJECT TO DEMOLITION/RESTORATION.
2. CURB INSTALLATION SHALL MATCH EXISTING TYPE.
3. THE TRENCH RESTORATION SHALL BE 5' WIDE FOR THE SERVICES.
4. SIDEWALK & CURB INSTALLATION SHALL BE REPLACED ONLY IN AREAS WITH EXISTING SIDEWALK & CURB.
5. LANDSCAPE/SOD SHALL BE RESTORED TO EXISTING CONDITION.
6. DRIVEWAYS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION.
7. SERVICES SHALL BE INSTALLED VIA MISSILE BORE OR DIRECTIONAL DRILL IF UNDER PAVEMENT THAT IS NOT CALLED OUT FOR FULL DEPTH CONSTRUCTION.

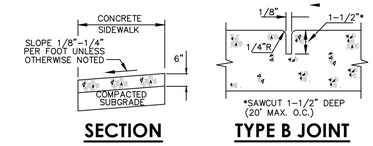
2 RESTORATION DETAIL
N.T.S.

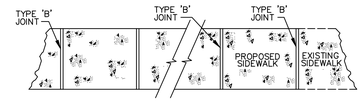


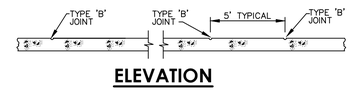
NOTE:
1. ALL SIDEWALKS SHALL BE CONSTRUCTED THROUGH DRIVEWAYS.
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS.
3. CONCRETE SHALL BE BROOM FINISHED WITH EVEN DUSTLESS SURFACE.
4. ALL CONCRETE SIDEWALK AND CURB RAMPS SHOWN SHALL BE IN CONFRMANCE WITH FDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION.

TABLE OF SIDEWALK	THICKNESS - "T"
RESIDENTIAL AREAS	4"
AT DRIVEWAYS & ALLEY ENTRANCES	6"
TABLE OF SIDEWALK	WIDTHS - "W"
STANDARD WIDTH	5'
OTHER AREAS AS SPECIFIED BY THE CITY ENGINEER.	

3 CONCRETE SIDEWALK
N.T.S.

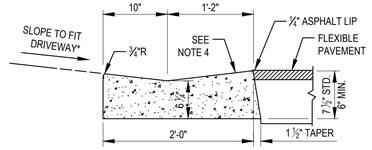






NOTES:
1. SIDEWALK SHALL BE 4" THICK TYPICAL, 6" AT DRIVEWAY LOCATIONS.
2. SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
3. CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
4. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE "AMERICAN WITH DISABILITY ACT:, LATEST REVISION.
5. SECTION OF SIDEWALK TO BE REPLACED SHALL BE REPLACED TO THE EXISTING JOINTS.

4 SIDEWALK DETAILS
N.T.S.

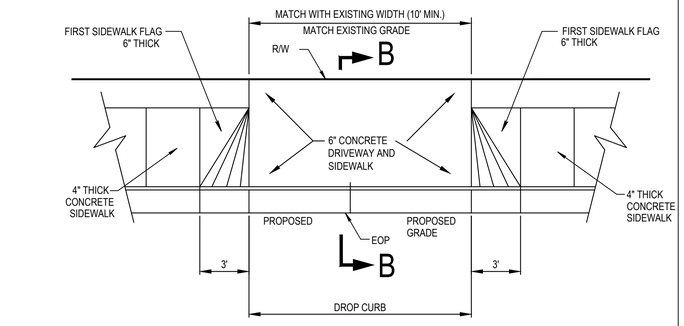


*NOTE: 2% MAX. SLOPE FOR PEDESTRIAN PATHWAYS; 12% MAX. SLOPE FOR DRIVEWAYS

VALLEY GUTTER
(DROP CURB)

NOTES:
1. ULTIMATE STRENGTH OF CONCRETE FOR CURBS AND GUTTERS SHALL BE 3,000 P.S.I. @ 28 DAYS.
2. 1/8"-1/4" CONTRACTION JOINTS IN CURB AND GUTTER SHALL BE CUT AS SHOWN AND AT 10 FT. MAXIMUM SPACING. NO SECTION SHALL BE LESS THAN 4 FT.
3. WHEN PAVEMENT IS CONCRETE, PROVIDE A 1/2" EXPANSION JOINT WITH PRE-FORMED JOINT FILLER & JOINT SEAL BETWEEN CURB AND CONCRETE PAVEMENT. (1-1/2" TAPER ON CURB FACE NOT REQUIRED AT CONCRETE PAVEMENT.)
4. WHEN USED ON HIGH EDGE OF PAVEMENT, THE CROSS SLOPE OF TYPES "E", "F", AND VALLEY GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT EDGE OF PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" MINIMUM UNLESS OTHERWISE SHOWN ON PLANS. THE SURFACE ON THE LOW EDGE OF PAVEMENT TO BE 1/4" ABOVE LIP OF GUTTER. SURFACE ON HIGH EDGE OF PAVEMENT TO BE FLUSH WITH LIP OF CURB AND GUTTER. IF BOTH EDGES ARE AT SAME ELEVATION, SURFACE SHALL BE FLUSH.
5. ENDS OF TYPE "E" & "F" CURBING SHALL TRANSITION FROM FULL HEIGHT TO FLUSH IN 3 FEET.
6. THE MINIMUM CONSTRUCTED FLOW-LINE GRADIENT FOR STREET DRAINAGE UTILIZING CURB & GUTTER OR VALLEY GUTTER SHALL BE 0.20%.
7. REFER TO FDOT INDEX 300 FOR ADDITIONAL INFORMATION.
8. CONCRETE CURBING SHALL BE CONSTRUCTED ON A 4" THICK BASEROCK CURB PAD
9. CURB INLETS OR DRAINAGE INLET TOPS SHALL BE ADJUSTED AS NEEDED TO ACCOMMODATE A.D.A. COMPLIANT CURB RAMPS.

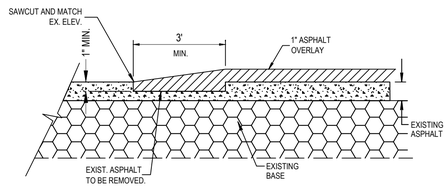
5 CONCRETE CURB AND GUTTER
N.T.S.



SECTION B-B

NOTES:
1. SLOPES CAN BE ADJUSTED WITHIN THE RANGES SHOWN TO IMPROVE TIES TO ADJACENT PROPERTY AND ARE TO BE TRANSITIONED TO AVOID DISTORTION IN SIDEWALK CONTINUITY AND MEET A.D.A. REQUIREMENTS.
2. COMPLY WITH F.D.O.T. DESIGN STANDARDS.
3. FOR LOCATIONS WHERE EXISTING CROSS SLOPE IS LESS THAN 7.0% DRIVEWAY REPAIR MAY EXTEND 5-FT BEYOND RIGHT OF WAY. FOR LOCATIONS WHERE EXISTING CROSS SLOPE IS MORE THAN 7.0% DRIVEWAY REPAIR MAY EXTEND 10-FT BEYOND RIGHT OF WAY.

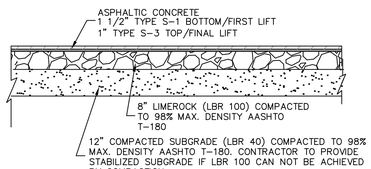
6 RESIDENTIAL CONCRETE DRIVEWAY
N.T.S. (U.N.O.)



NEW OVERLAY PAVEMENT JOINT

NOTES:
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

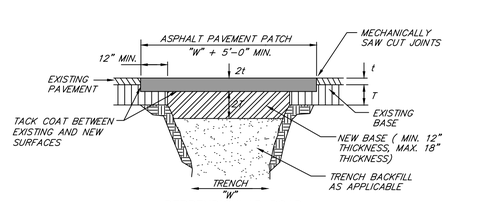
7 PAVEMENT JOINT
N.T.S.



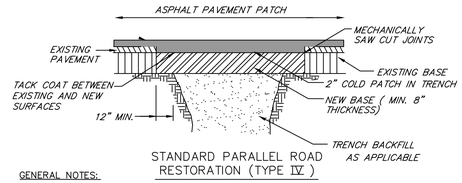
CITY OF RIVIERA BEACH TYPICAL PAVEMENT SECTION

NOTES:
1. MILLING DEPTH SHALL BE A MINIMUM OF 1-INCH BUT SHALL EXTEND DEEPER IN LOCATIONS WHERE EVIDENCE OF EXISTING CRACKING BELOW 1-INCH IS NOTED.
2. TYPE S-3 ASPHALT TO BE PLACED WITH A MINIMUM LIFT THICKNESS OF 1-INCH.
3. FOR ALL PAVEMENT REPAIR TECHNIQUES, ANY EXPOSED BASEROCK SHALL BE PREPARED FOR PAVING WITH A PRIME AND TACK COAT PER FDOT SECTION 300.
4. WHERE BASE REPAIR IS IDENTIFIED ON THE PLANS, CONTRACTOR SHALL EITHER:
   A. REWORK LIMEROCK BASE PER FDOT SECTION 210, OR
   B. REMOVE EXISTING LOOSE LIMEROCK, COMPACT AND PRIME THE EXPOSED LIMEROCK SURFACE AND OVERBUILD THE BASE REPAIR SECTION WITH ASPHALT IN LIFTS NO GREATER THAN 1 1/2 INCHES UNTIL FINAL PROPOSED GRADE IS MET.

8 PAVEMENT AND BASE REPAIR AND TRENCH RESTORATION
N.T.S.



PERPENDICULAR ROAD CROSSINGS (TYPE III)



STANDARD PARALLEL ROAD RESTORATION (TYPE IV)

GENERAL NOTES:
1. REPLACE BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE. MINIMUM 12", MAXIMUM 18", MINIMUM LBR 100.
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM (LOOSE MEASUREMENT) LAYERS AND EACH LAYER THOROUGHLY ROLLED AND TAMPED TO 98% OF MAXIMUM DENSITY, PER A.A.S.H.T.O. T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. ALL EDGES AND SURFACES SHALL BE TACK COATED.
5. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE EXISTING SURFACE.
6. BASE MATERIAL SHALL BE CONSISTENT WITH THE EXISTING BASE.
7. IF THE DITCH IS FILLED TEMPORARILY IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE/PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH PERMANENT PATCH.
8. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL.
9. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180.
10. A MINIMUM 6" BEDDING OF 3/4" ROCK IS TO BE INSTALLED ABOVE AND BELOW THE PIPE.
11. HOT MIX WILL BE REQUIRED FOR ALL LONGITUDINAL TRENCHES EXCEPT DRIVEWAYS.

9 PAVING - SURFACE RESTORATION DETAIL
N.T.S.

BID SET

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CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

DETAILS

DRAWING NUMBER
D-3
20 OF 23

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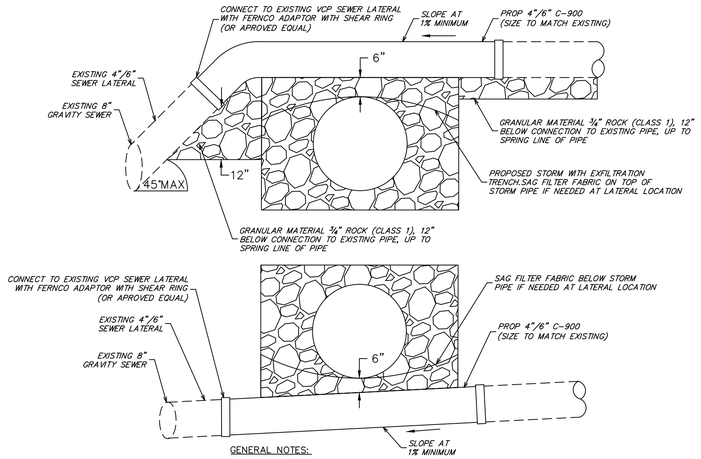
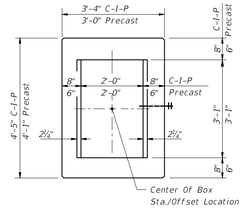


GENERAL NOTES:

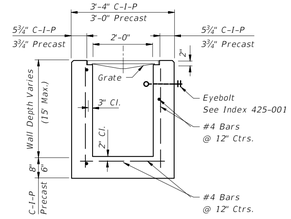
1. SANITARY SEWER ADJUSTMENTS SHALL ONLY BE PERFORMED IF SANITARY SEWER LATERAL IS IN DIRECT CONFLICT WITH PROPOSED DRAINAGE.
2. EXTENT OF LATERAL ADJUSTMENT SHALL AT A MINIMUM BE THE WIDTH OF THE DRAINAGE TRENCH. THE ADJUSTED LATERAL SHALL EXTEND PAST THE DRAINAGE TRENCH AS NEEDED TO MAINTAIN A MINIMUM 1% SLOPE OR MAXIMUM 45° ANGLE TO PROPERTY LINE.

10 SANITARY SEWER LATERAL ADJUSTED OVER AND BELOW PROPOSED DRAINAGE

N.T.S.



PLAN



SECTION

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

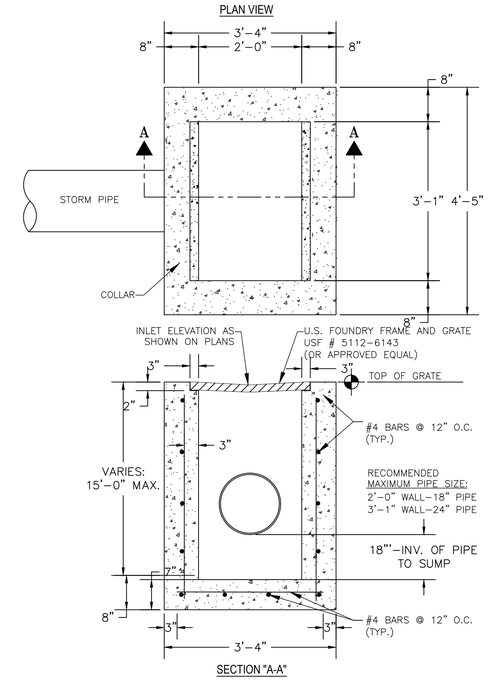
WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0'-15'	A12	0.20	12"	8"

TYPE C

Recommended Maximum Pipe Size:
2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

11 STORMWATER SYSTEM - TYPE "C" SITE CATCH BASINS

N.T.S.



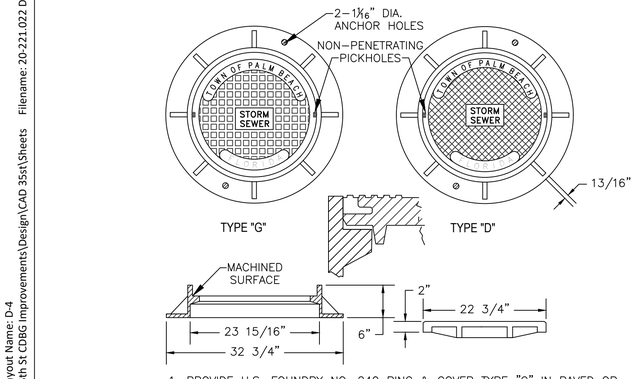
SECTION "A-A"

SECTION AA

1. THIS INLET TO BE LOCATED IN VALLEY GUTTER. GRATE SHALL BE ORIENTED WITH VANES DIRECTED TOWARD PREDOMINATE FLOW. INLET TO BE LOCATED OUTSIDE PEDESTRIAN CROSSWALK WHERE PRACTICAL.
2. FRAME MAY BE ADJUSTED WITH ONE TO THREE COURSES OF BRICK.
3. INLET AND GRATE DETAIL SHOWN IS U.S. FOUNDRY 5112-6143, O.A.E.

12 STORMWATER SYSTEM - VALLEY GUTTER TOP

N.T.S.

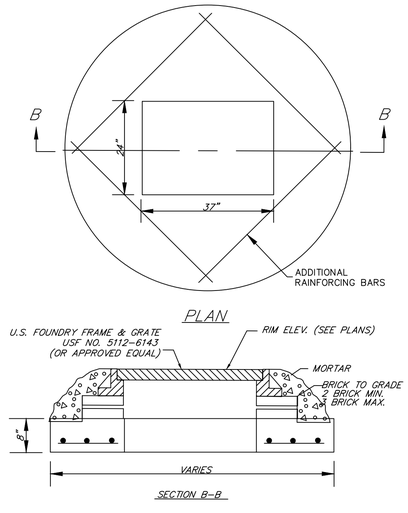


1. PROVIDE U.S. FOUNDRY NO. 240 RING & COVER TYPE "G" IN PAVED OR GRASSED AREAS; COVER (D) IN SIDEWALK AND DRIVEWAY AREAS.
2. MANHOLES THAT ARE PRIVATE SHALL NOT HAVE "TOWN OF PALM BEACH" EMBOSSED ON THEM.

FRAME WT.: APPROXIMATELY 195 LBS. / 88.5 KG COVER
WT.: APPROXIMATELY 125 LBS. / 56.8 KG (TYPE "D")
COVER WT.: APPROXIMATELY 130 LBS. / 59 KG (TYPE "G")

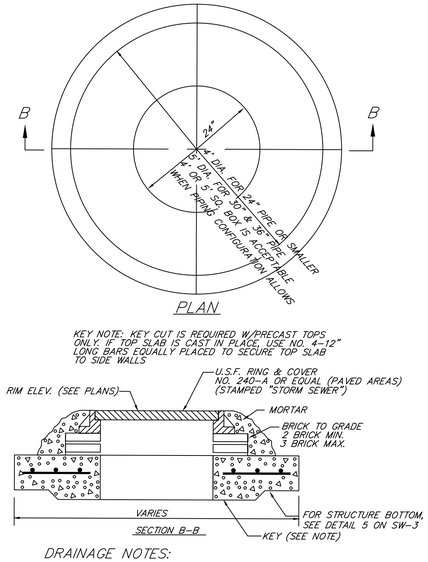
13 STORMWATER SYSTEM - TYPES "G" & "D" COVER & FRAME

N.T.S.



14 STORMWATER SYSTEM - TOP SLAB DETAIL (CATCH BASIN)

N.T.S.



DRAINAGE NOTES:

1. ALL TEMPORARY PLUGS INSIDE THE DRAINAGE PIPES SHALL BE REMOVED AFTER THE COMPLETION OF CONSTRUCTION.

15 STORMWATER SYSTEM - TOP SLAB DETAIL (MANHOLE)

N.T.S.

BID SET

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DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE

DETAILS

DRAWING NUMBER
D-4
21 OF 23

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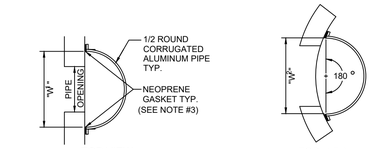
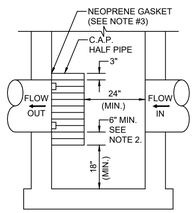
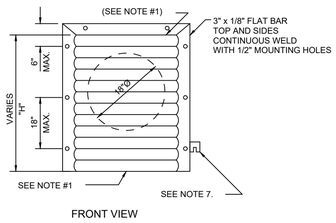


TOP VIEW
RECTANGULAR STRUCTURE

TOP VIEW
ROUND STRUCTURE



SIDE VIEW



FRONT VIEW

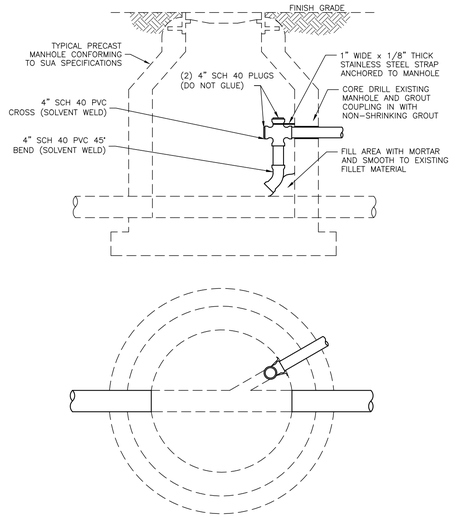
PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	H (IN)
18"	24"	24"	16	VARIES

1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

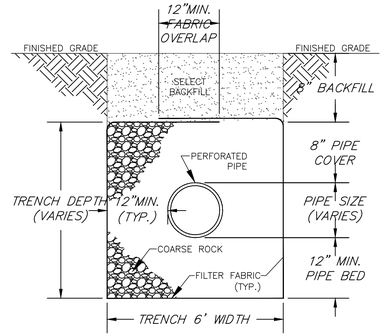
NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING. WHERE BAFFLE IS NOTED ON PLANS PROVIDE AN OPEN BOTTOM AND SOLID TOP. WHERE WEIR IS NOTED ON PLANS PROVIDE A CLOSED BOTTOM AND OPEN TOP WITH CORRUGATED PIPE EXTENDING TO THE ELEVATION SHOWN ON PLANS.
2. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 2' BELOW CONTROL ELEVATION.
3. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
4. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
5. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
6. FIBERGLASS BAFFLES ARE NOT PERMITTED.
7. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.
8. REFER TO PLANS FOR SD PIPE ELEVATIONS, PENETRATION LOCATIONS AND BAFFLE LOCATIONS.

16 POLLUTION RETARDANT BAFFLE DETAILS
N.T.S.



17 INTERIOR DROP CONNECTION
N.T.S.



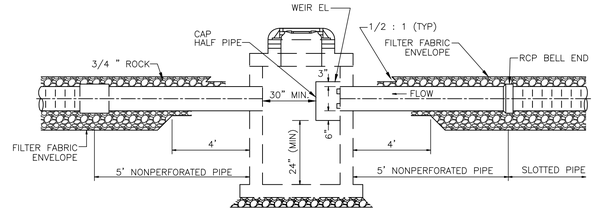
FILTER FABRIC SHALL BE SUBSURFACE DRAINAGE TYPE MEETING THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 985. ALL FILTER FABRIC JOINTS SHALL LAP A MINIMUM OF ONE (1) FOOT.

EXFILTRATION TRENCH

18 TYPICAL EXFILTRATION TRENCH DETAIL
N.T.S.

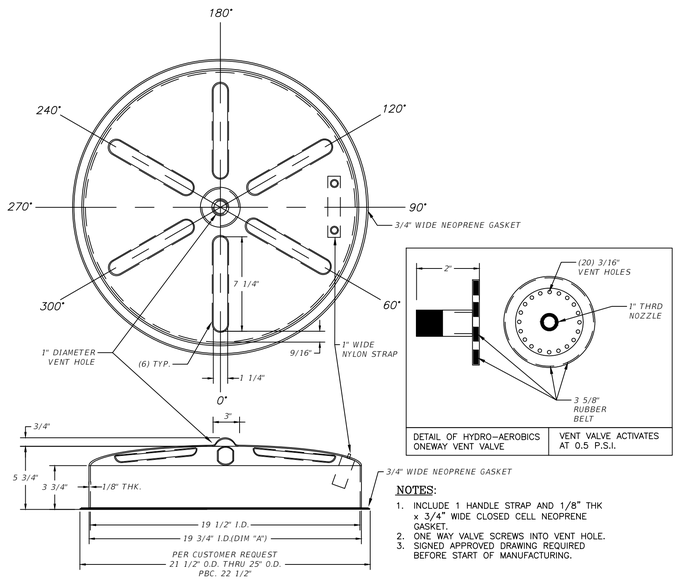
GENERAL NOTES: STORMWATER DRAINAGE SYSTEMS

1. ALL STORM DRAINAGE SYSTEMS AND COMPONENTS SHALL COMPLY WITH THE DESIGN STANDARDS AND SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), LATEST EDITION.
2. STORM DRAINAGE STRUCTURES SHALL BE MANUFACTURED USING EITHER TYPE I OR TYPE II CEMENT WITH A CONCRETE MIX DESIGNED TO ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS.
3. CONCRETE SHALL BE CLASS I; EXCEPT ASTM C478 (4,000 PSI) CONCRETE MAY BE SUBSTITUTED FOR PRECAST ITEMS MANUFACTURED IN PLANTS MEETING THE REQUIREMENTS OF SECTION 449 OF THE FDOT SPECIFICATIONS.
4. ALL REINFORCING IS GRADE 60 BARS WITH 2" MIN. COVER UNLESS OTHERWISE NOTED IN THE FDOT DESIGN STANDARDS.
5. MAXIMUM STRUCTURE OPENINGS FOR PIPE SHALL BE THE PIPE OUTSIDE DIAMETER PLUS 6-INCHES. MORTAR USED TO SEAL THE PIPE INTO THE OPENING WILL BE SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE INTO OR OUT OF THE STRUCTURE.



SEE DETAIL 12 FOR STRUCTURE DETAILS

TYPICAL EXFILTRATION TRENCH - LONGITUDINAL SECTION



DETAIL OF HYDRO-AEROBICS ONEWAY VENT VALVE	VENT VALVE ACTIVATES AT 0.5 P.S.I.

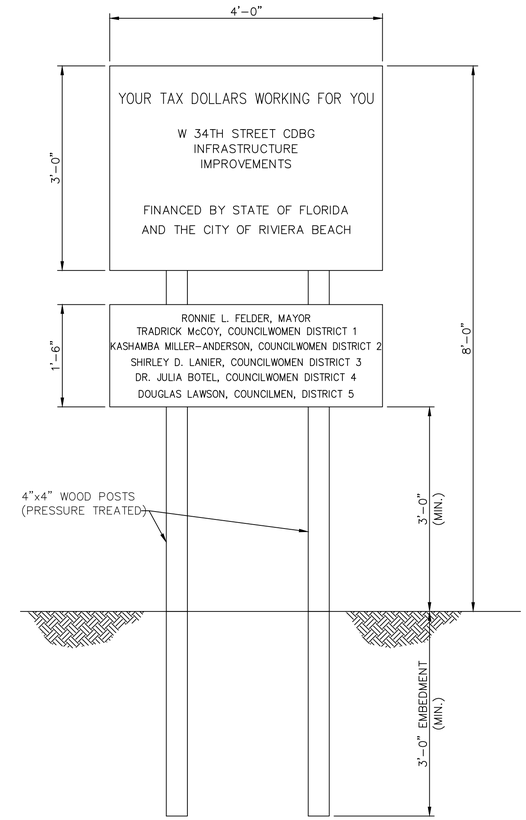
NOTES:

1. INCLUDE 1 HANDLE STRAP AND 1/8" THK x 3/4" WIDE CLOSED CELL NEOPRENE GASKET.
2. ONE WAY VALVE SCREWS INTO VENT HOLE.
3. SIGNED APPROVED DRAWING REQUIRED BEFORE START OF MANUFACTURING.

19 TYPICAL EXFILTRATION TRENCH DETAIL
N.T.S.

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	TYPE, SIZE	STATION, OFFSET	RIM EL	SUMP EL	PIPE	INVERT EL
S-1	STORM MH, 48"Ø SD	12+37.13, 8.75 L	11.67	3.64	18" RCP 18" RCP	5.14 (S) PRB 7.54 (NE)
S-2	TYPE "B" CATCH BASIN, 48"Ø	12+98.53, 12.00 L	11.72	5.40	18" RCP 18" RCP	7.54 (SW) 6.90 (E) PRB
S-3	TYPE "C" CATCH BASIN, 24"X37"	13+95.68, 12.00 L	11.62	2.05	18" RCP 18" RCP	6.90 (W) PRB 3.55 (S)
S-4	TYPE "C" CATCH BASIN, 24"X37"	13+95.68, 12.00 R	11.62	2.05	18" RCP 18" RCP	3.55 (N) 6.90 (E) PRB
S-5	TYPE "C" CATCH BASIN, 24"X37"	17+00.00, 12.00 L	12.22	6.30	18" RCP	7.80 (S)
S-6	TYPE "C" CATCH BASIN, 24"X37"	17+00.01, 12.00 R	12.22	5.40	18" RCP 18" RCP 18" RCP	7.80 (N) 6.90 (W) PRB 7.28 (E) PRB
S-7	TYPE "C" CATCH BASIN, 24"X37"	19+80.00, 12.00 L	12.27	6.05	18" RCP	7.55 (S)
S-8	TYPE "C" CATCH BASIN, 24"X37"	19+80.00, 12.00 R	12.27	5.78	18" RCP 18" RCP 18" RCP	7.55 (N) 7.28 (W) PRB 7.55 (E)
S-9	STORM MH, 48"Ø SD	20+47.00, 4.01 L	12.72	6.05	18" RCP 18" RCP	7.55 (S) PRB 7.55 (W)
S-10	STORM MH, 48"Ø SD	22+20.79, 7.93 R	12.26	5.70	18" RCP 18" RCP	7.55 (N) PRB 7.20 (S)



PROJECT IDENTIFICATION SIGN
NTS

BID SET

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500 West Cypress Creek Road
Suite 850
West Palm Beach, FL 33401
+1 (561) 746-6900
www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: 04/15/2026

CLIENT

PROJECT INFORMATION

W35TH STREET INFRASTRUCTURE IMPROVEMENTS

RIVIERA BEACH, FL

PROJECT NUMBER
20-221.022

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
04/15/2026

DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

DRAWING TITLE
DETAILS

DRAWING NUMBER
D-5
22 OF 23

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
Plot Date: 4/24/2026 1:56:42 PM Username: jgoldberg Layout Name: D-5
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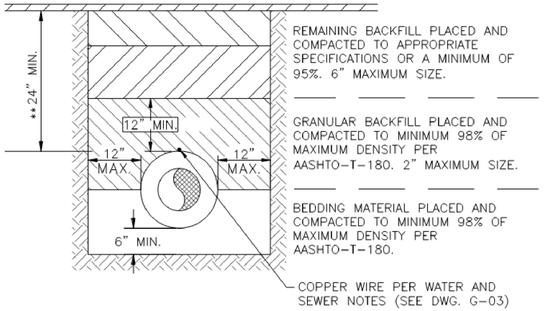


NOTES:

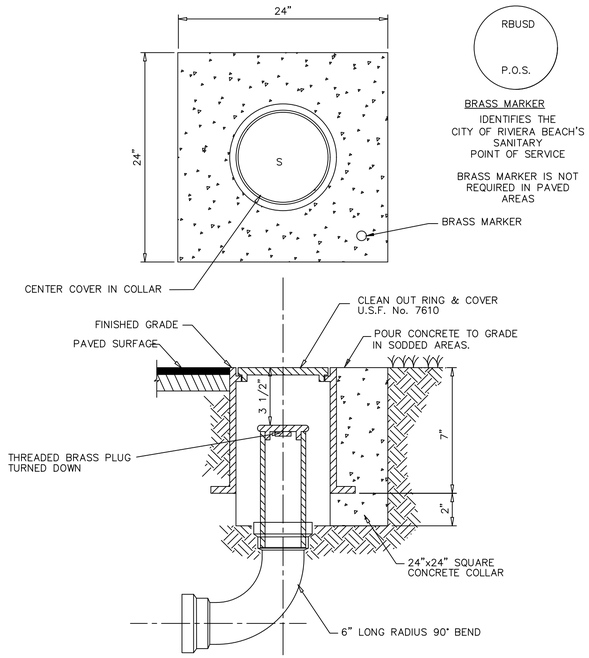
1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/5" SIZING.
2. THE PIPING SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGER ROCK, MUCK, AND DEBRIS.
5. DENSITY TESTS ARE REQUIRED IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAX., OR AS DIRECTED BY THE INSPECTOR.
6. STREET PAVEMEMT 2" ASPHALT, BASE 8" LIMEROCK OR 6" CONCRETE (SEE PLANS).

TRENCH DETAIL

NTS

BID ALT 1 - 6" CONCRETE PAVEMENT

N.T.S.

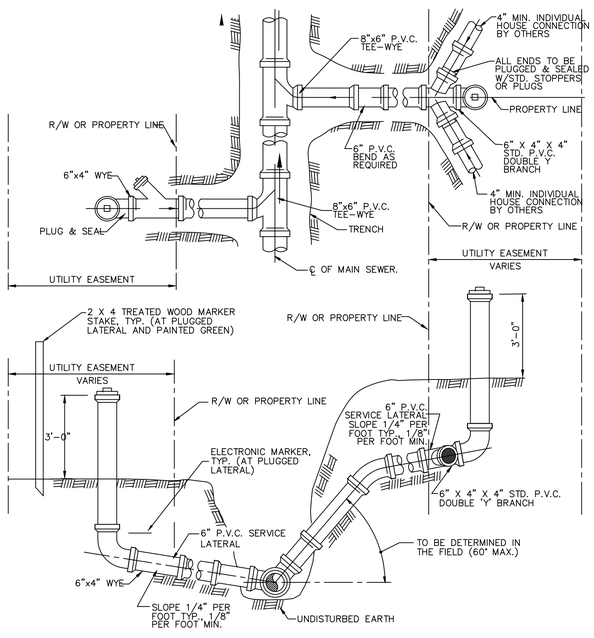


NOTES:

1. CLEANOUTS TO BE LOCATED IN GRASS AREA WHENEVER POSSIBLE.
2. THE COVER SHALL BE MARKED WITH AN "S".
3. LATERALS TO BE SDR 26.
4. CLEANOUTS TO BE INSTALLED PRIOR TO C/O (CERTICATE OF OCCUPANCY).

20 SANITARY SEWER CLEANOUT

N.T.S.

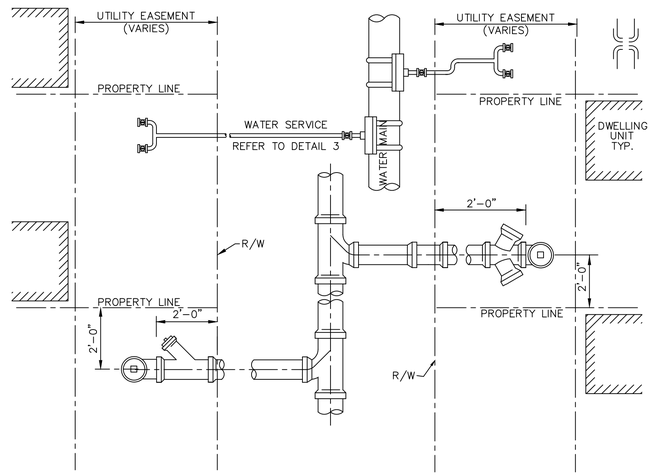


NOTES:

1. SERVICE LATERALS SHALL TERMINATE 2' INSIDE U.E. AT PROPERTY LINE AT A MAXIMUM DEPTH OF 3 FEET, PLUGGED WATERTIGHT AND MARKED WITH A 2"x2" TREATED STAKE AND ELECTRONIC MARKER MARKER (GREEN).
2. THE MINIMUM DIAMETER OF ALL SERVICE LATERALS SHALL BE 6 INCHES.
3. CONNECTION TO CITY LATERAL SHALL BE MADE WITH A CLEANOUT.

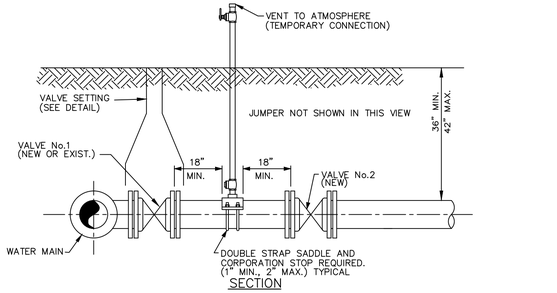
21 TYPICAL SEWER SERVICE CONNECTION

N.T.S.



22 TYPICAL ZERO LOT LINE SEWER SERVICE CONNECTION

N.T.S.



NOTES:

1. WATER MAIN BOTH VALVES SHALL BE KEPT CLOSED EXCEPT FOR FLUSHING.
2. ALL CORPORATION STOPS MUST BE REMOVED AND BRASS PLUG INSTALLED IN SADDLE FOLLOWING SUCCESSFUL COMPLETION OF ALL TESTING. FILLING AND FLUSHING LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR, ENGINEER, AND RBUSD
3. THE RBUSD SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING. VALVES ON EXISTING SYSTEM SHALL BE OPERATED ONLY BY RBUSD PERSONNEL.
4. PRESSURE TEST PUMP CONNECTS TO SERVICE LINE TAPS OR BLOW OFF. NO EXTRA TAPS ARE PERMITTED UNLESS APPROVAL HAS BEEN BY THE RBUSD
5. VENT TO ATMOSPHERE SHALL REMAIN OPEN DURING ALL PHASES OF PRESSURE TESTING.
6. JUMPER WILL REQUIRE A METER AND BFD. CONTRACTOR SHALL CONTACT CUSTOMER SERVICE AT 561.791.4010 FOR CONSTRUCTION METER.

23 DOUBLE VALVE DETAIL W/ ATMOSPHERIC VENT AND JUMPER W/ BFP AND METER (W-37)

N.T.S.

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Plot Date: 5/1/2026 11:32:09 AM Username: jgoldberg Layout Name: D-6
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CITY OF RIVIERA BEACH PALM BEACH COUNTY, FL.

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DESIGNED BY
MA

DRAWN BY
JH

CHECKED BY
SD

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DRAWING NUMBER
D-6
23 OF 23

BID SET