



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

FRANKLIN AVE & 301 NORTH
WATER MAIN REPLACEMENT PROJECT

NOTES

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ALEX GONZALEZ AND CAN BE REACHED AT 941-708-7450.
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
7. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

SAFETY

- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
14. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
15. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
16. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
17. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
18. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
20. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
23. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
27. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
28. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

UTILITIES

- 29. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
30. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
31. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
32. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02270.
33. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY THAT REQUIRE A PLUMBING PERMIT;
A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:
•IN-GROUND IRRIGATION SYSTEM,
•SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL),
•SWIMMING POOL,

- FIRE SPRINKLER SYSTEM,
•FLOOD ZONE DESIGNATION,
•PROPERTY THAT ABUTS OR INCLUDES A BODY OF WATER (INCLUDING RIVER, BAY, LAKE OR POND),
•SOLAR WATER HEATING SYSTEM,
•MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY.
B. A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS PLUMBING AND NOT ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.
C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL RP BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.
D. VACUUM BREAKERS SHALL BE INSTALLED ON ALL HOSE BIBBS.
E. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED.

RESTORATION

- 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
35. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
36. ALL CONCRETE TRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
38. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.
39. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
40. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

- 41. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
42. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
43. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
44. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
45. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
46. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
47. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.
48. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
49. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
50. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
51. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
52. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
53. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
54. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
55. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
56. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTORS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.

- 57. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
58. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
59. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
60. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
61. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST.
62. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED FORCE MAIN CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND FORCE MAIN APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

- 63. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS.
LEVEL "A" -VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL)
LEVEL "B" -DESIGNATED BY GPR OR FLAGGING (HORIZONTAL)
LEVEL "C" -SURFACE VISIBLE FEATURES SURVEY
LEVEL "D" -EXISTING RECORDS OR GIS
REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMODATION MANUAL (UAM)

MAINTENANCE OF TRAFFIC

- 64. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 800). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.
65. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC

CONTROL PLAN (TCP). THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

- 66. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FOOT DESIGN STANDARD INDICES ARE CONCEPTUAL.
67. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK. COSTS SHALL BE INCLUDED IN THE COST OF PIPE.
68. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.
69. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE CLOSURES OR DETOURS.
70. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.
71. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS.
72. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.
73. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.
74. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO SEPARATE PAYMENT.
75. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT STANDARD INDEX 600.
76. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D. LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

LEGEND

Legend table with columns: EXISTING, LEGEND, ABBREVIATIONS. Includes symbols for bench mark, iron pipe, iron rod, hub, nail & disk, elevation, parcel ID no., lot no., guy wire, power pole, light pole, mail box, sign, reflector, sprinkler, gas marker, backflow preventer, blow off valve, fire hydrant, water valve, air release valve, water meter, sanitary sewer manhole, sanitary sewer clean out, soil boring location, telephone service box, utility box, utility riser, flow direction, grate inlet, mitered end section, storm sewer manhole, bush, tree, oak tree, palm tree, pine tree, chain link fence, wood fence, barbed wire fence, force main, potable water, reclaimed water, sanitary sewer, storm drain, gas line, overhead charter, underground charter, overhead electric, underground electric, overhead frontier, underground frontier, underground preco, underground fpl, overhead utility, rail road tracks, edge of concrete, edge of road, toe of slope, top of bank, property line, right of way.

EMERGENCY CONTACTS

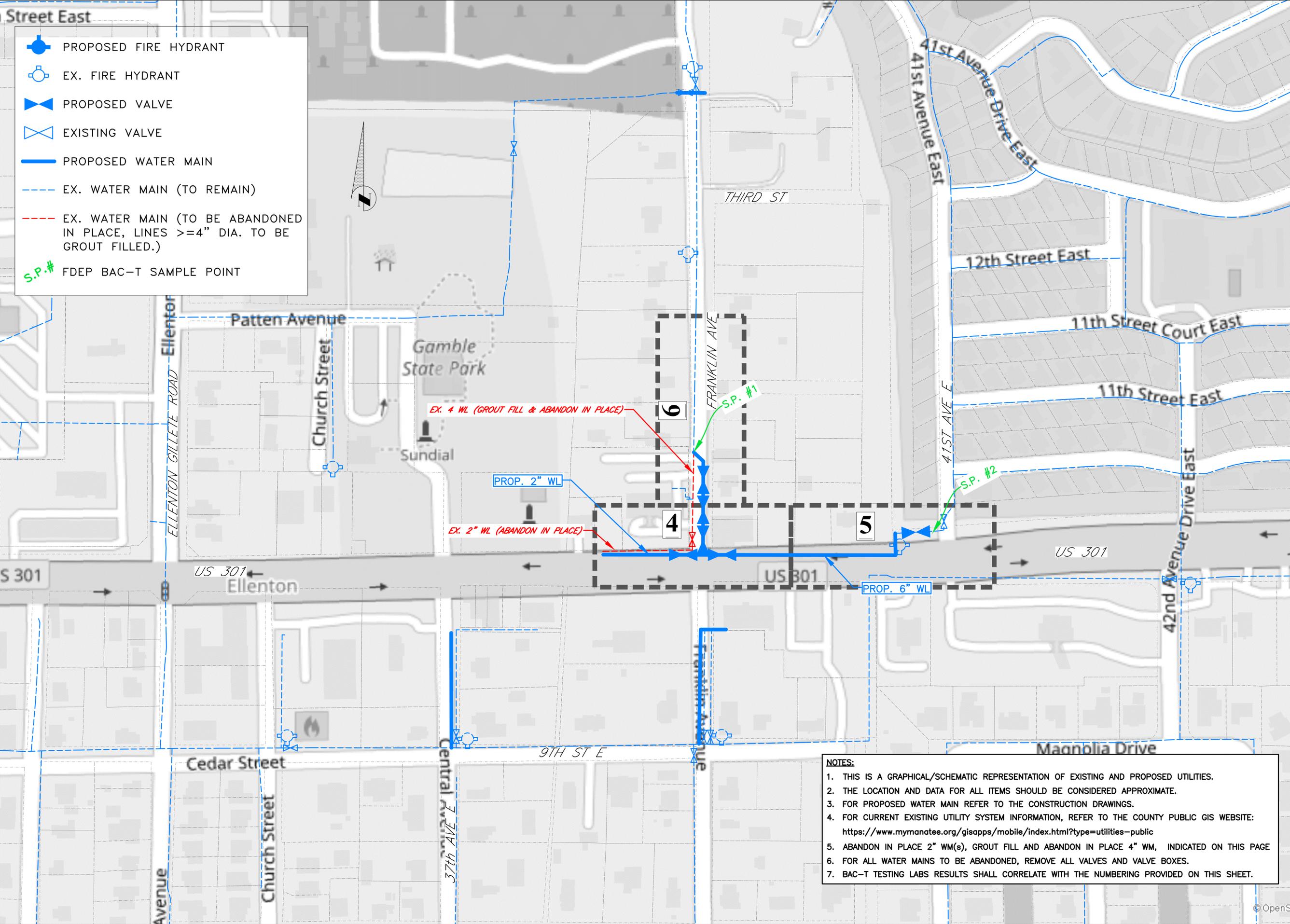
Table with 4 columns: MANATEE COUNTY PUBLIC WORKS DEPT., FLORIDA POWER & LIGHT GREG COKER, FLORIDA GAS TRANSMISSION JOHN LUDLOW, PEACE RIVER ELECTRIC COOPERATIVE, INC. Includes contact info for TECO/PEOPLES GAS CO., MANATEE COUNTY HEALTH DEPT., HANS ROESE, CHARTER COMMUNICATIONS TOM WRIGHT, and CITY OF BRADENTON PUBLIC WORKS.

Table with columns: NO., REVISION DESCRIPTION, DATE, BY. Includes project # 404-6092270, survey # 0577-0043, sec./twn./rge 17-34S-18E, scale N.T.S., and dates for surveyed, designed, drawn, and checked.

ALEJANDRO GONZALEZ, P.E.
FLORIDA P.E. # 79278
Signature & Date

\\p010111\State Projects\Visible Water\Franklin Ave&301 N\Station\cadd\4041217_0092270\Subarea\formattings\Forman_WIP_P_LASR\GIS\GIS\Drawn_Plot_Brace_Restoration_141_ASH\GIS\GIS\Drawn_Plot_Brace_Restoration_141_ASH.dwg, 3/31/2023 12:29 PM Bruce_Restoration_141_ASH.dwg, 10'-20' (6.093m)

FRANKLIN AVE & 301 NORTH
WATER MAIN REPLACEMENT PROJECT
KEY SHEET



| | |
|--|--|
| | PROPOSED FIRE HYDRANT |
| | EX. FIRE HYDRANT |
| | PROPOSED VALVE |
| | EXISTING VALVE |
| | PROPOSED WATER MAIN |
| | EX. WATER MAIN (TO REMAIN) |
| | EX. WATER MAIN (TO BE ABANDONED IN PLACE, LINES >=4" DIA. TO BE GROUT FILLED.) |
| | S.P.# FDEP BAC-T SAMPLE POINT |

NOTES:

1. THIS IS A GRAPHICAL/SCHEMATIC REPRESENTATION OF EXISTING AND PROPOSED UTILITIES.
2. THE LOCATION AND DATA FOR ALL ITEMS SHOULD BE CONSIDERED APPROXIMATE.
3. FOR PROPOSED WATER MAIN REFER TO THE CONSTRUCTION DRAWINGS.
4. FOR CURRENT EXISTING UTILITY SYSTEM INFORMATION, REFER TO THE COUNTY PUBLIC GIS WEBSITE:
<https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public>
5. ABANDON IN PLACE 2" WM(S), GROUT FILL AND ABANDON IN PLACE 4" WM, INDICATED ON THIS PAGE
6. FOR ALL WATER MAINS TO BE ABANDONED, REMOVE ALL VALVES AND VALVE BOXES.
7. BAC-T TESTING LABS RESULTS SHALL CORRELATE WITH THE NUMBERING PROVIDED ON THIS SHEET.

| NO. | REVISION DESCRIPTION | BY | DATE |
|-----|----------------------|----|------|
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| | |
|---------------|-------------|
| PROJECT # | 404-6092270 |
| SURVEY # | 0577-0043 |
| SEC./TWN./RGE | 17-34S-18E |
| SCALE | SEE PLAN |

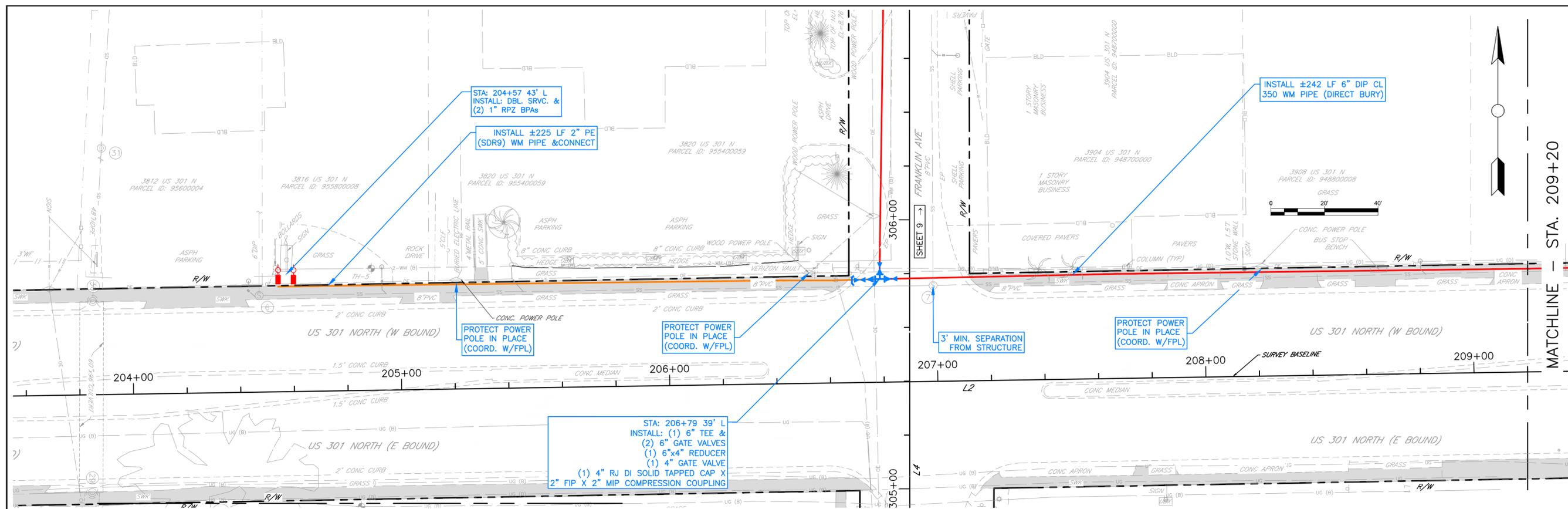
| BY | DATE |
|----------|-------------|
| SURVEYED | JTP 08/2018 |
| DESIGNED | AG 02/2021 |
| DRAWN | BR 02/2021 |
| CHECKED | AG 02/2021 |

ALEJANDRO GONZALEZ, P.E.
FLORIDA P.E. # 79278

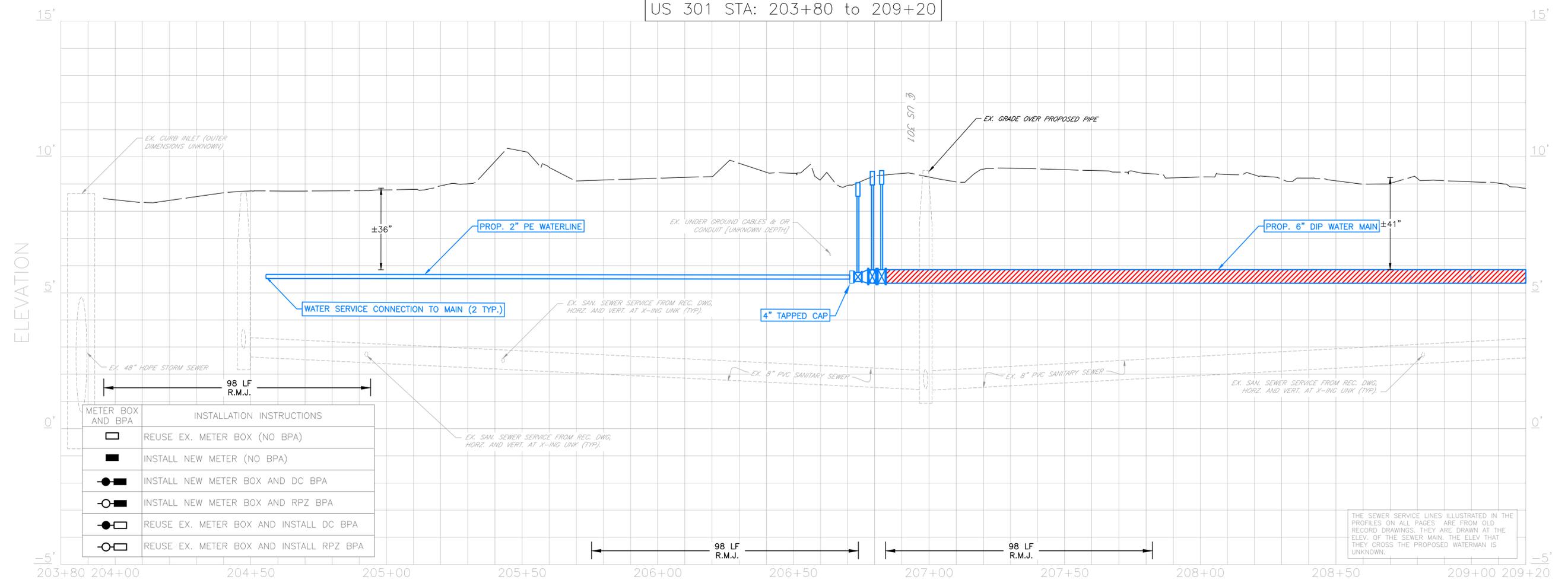
Signature & Date

FRANKLIN AVE & 301 NORTH WATER MAIN REPLACEMENT PROJECT

US 301



US 301 STA: 203+80 to 209+20



| METER BOX AND BPA | INSTALLATION INSTRUCTIONS |
|-------------------|---|
| | REUSE EX. METER BOX (NO BPA) |
| | INSTALL NEW METER (NO BPA) |
| | INSTALL NEW METER BOX AND DC BPA |
| | INSTALL NEW METER BOX AND RPZ BPA |
| | REUSE EX. METER BOX AND INSTALL DC BPA |
| | REUSE EX. METER BOX AND INSTALL RPZ BPA |

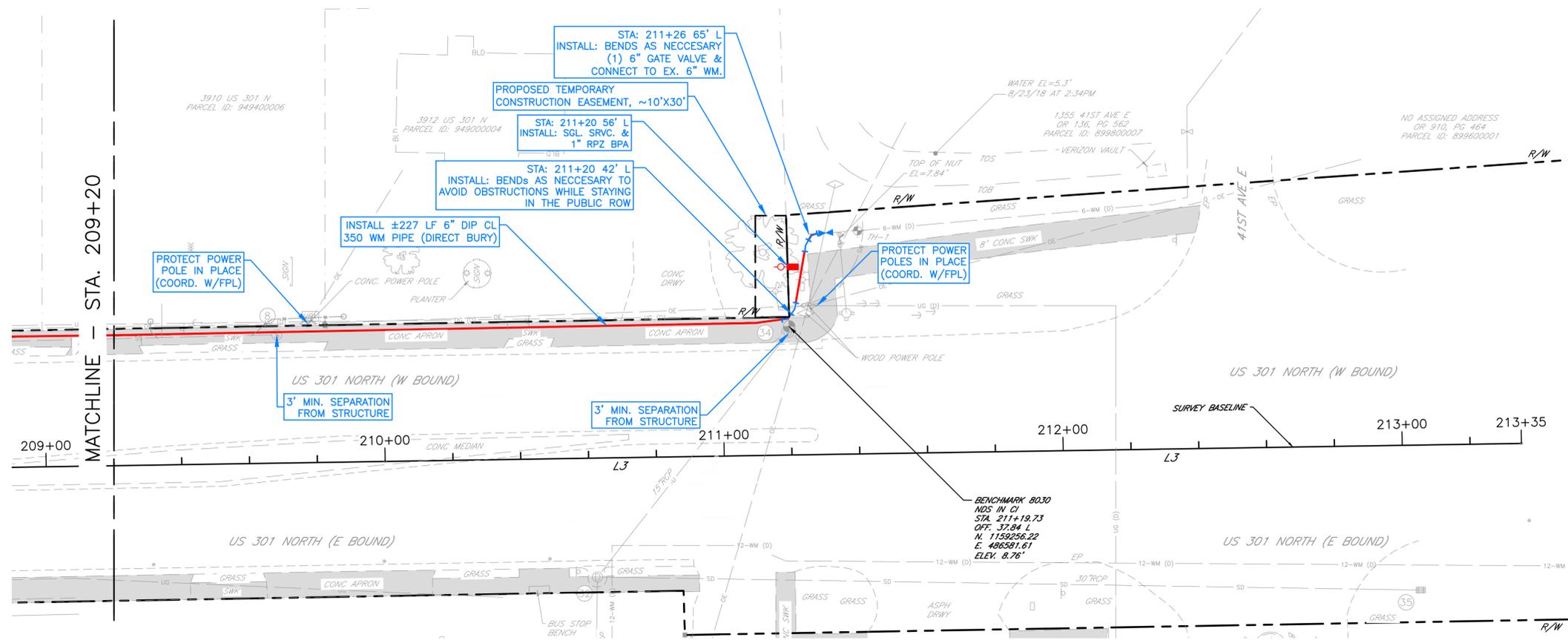
THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

| NO. | REVISION DESCRIPTION | BY | DATE |
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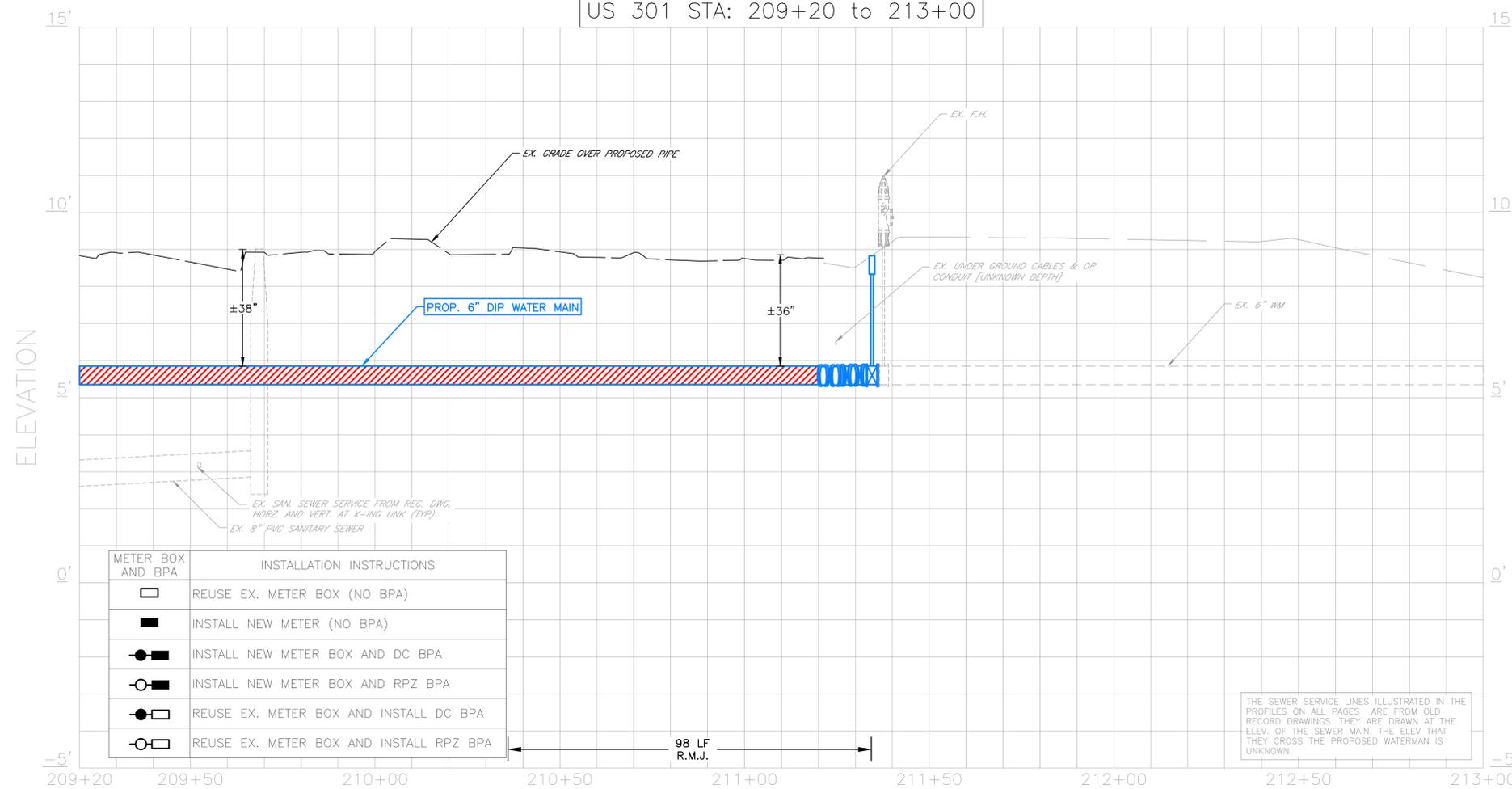
| | |
|--------------------------|-------------|
| PROJECT # | 404-6092270 |
| SURVEY # | 0577-0043 |
| SEC./TWN./RGE | 17-34S-18E |
| SCALE | SEE PLAN |
| SURVEYED | JTP 08/2018 |
| DESIGNED | AG 02/2021 |
| DRAWN | BR 02/2021 |
| CHECKED | AG 02/2021 |
| ALEJANDRO GONZALEZ, P.E. | |
| FLORIDA P.E. # 79278 | |
| Signature & Date | |

FRANKLIN AVE & 301 NORTH WATER MAIN REPLACEMENT PROJECT

US 301



US 301 STA: 209+20 to 213+00



| METER BOX AND BPA | INSTALLATION INSTRUCTIONS |
|-------------------|---|
| | REUSE EX. METER BOX (NO BPA) |
| | INSTALL NEW METER (NO BPA) |
| | INSTALL NEW METER BOX AND DC BPA |
| | INSTALL NEW METER BOX AND RPZ BPA |
| | REUSE EX. METER BOX AND INSTALL DC BPA |
| | REUSE EX. METER BOX AND INSTALL RPZ BPA |

THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

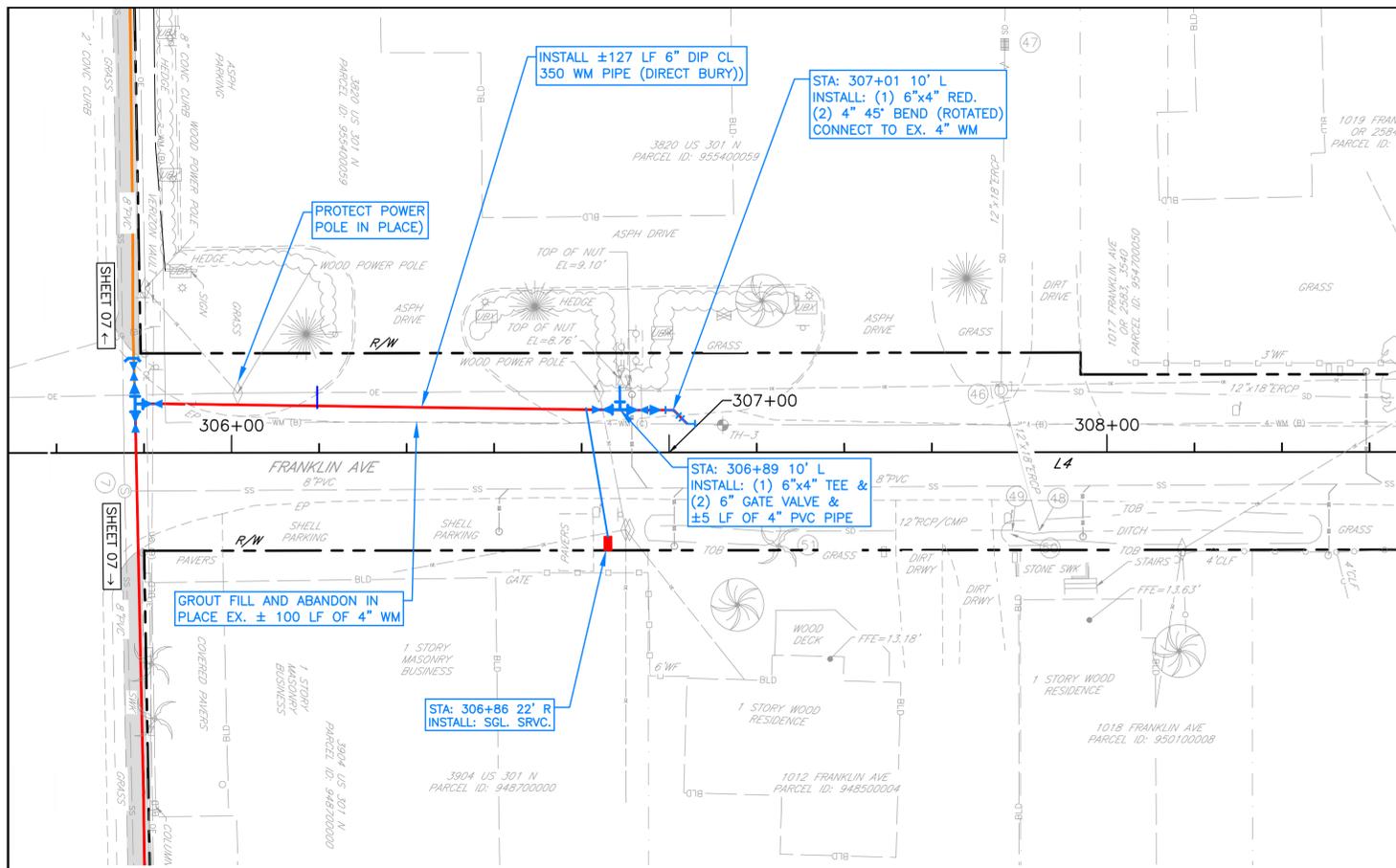
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|---------------|-------------|
| PROJECT # | 404-6092270 |
| SURVEY # | 0577-0043 |
| SEC./TWN./RGE | 17-34S-18E |
| SCALE | SEE PLAN |
| BY | DATE |
| SURVEYED | JTP 08/2018 |
| DESIGNED | AG 02/2021 |
| DRAWN | BR 02/2021 |
| CHECKED | AG 02/2021 |

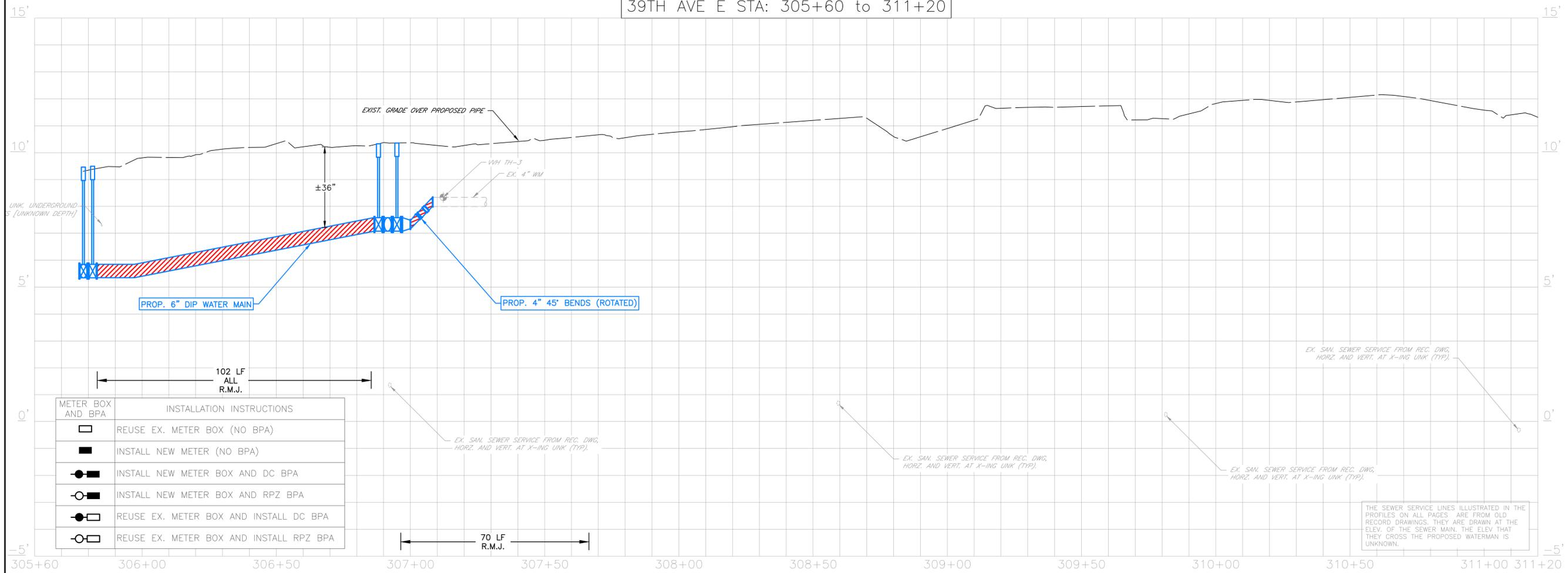
ALEJANDRO GONZALEZ, P.E.
FLORIDA P.E. # 79278
Signature & Date

FRANKLIN AVE & 301 NORTH WATER MAIN REPLACEMENT PROJECT 39TH AVE (FRANKLIN AVE)

MATCHLINE - STA. 311+20



39TH AVE E STA: 305+60 to 311+20



| METER BOX AND BPA | INSTALLATION INSTRUCTIONS |
|-------------------|---|
| | REUSE EX. METER BOX (NO BPA) |
| | INSTALL NEW METER (NO BPA) |
| | INSTALL NEW METER BOX AND DC BPA |
| | INSTALL NEW METER BOX AND RPZ BPA |
| | REUSE EX. METER BOX AND INSTALL DC BPA |
| | REUSE EX. METER BOX AND INSTALL RPZ BPA |

THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

| NO. | REVISION DESCRIPTION | BY | DATE |
|-----|----------------------|----|------|
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|---------------|-------------|
| PROJECT # | 404-6092270 |
| SURVEY # | 0577-0043 |
| SEC./TWN./RGE | 17-34S-18E |
| SCALE | SEE PLAN |
| SURVEYED | JTP 08/2018 |
| DESIGNED | AG 02/2021 |
| DRAWN | BR 02/2021 |
| CHECKED | AG 02/2021 |

ALEJANDRO GONZALEZ, P.E.
FLORIDA P.E. # 79278

Signature & Date



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

The information on this page has been extracted from a topographic survey done by Florida Design Consultants for Manatee County Government for the sole purpose of installing underground utilities. The full topo survey is available on request.

Table with 11 columns: Number, Length, Radius, Delta Angle, Line/Chord, Chord Length, Start Station, Start Northing, Start Easting, End Station, End Northing, End Easting. Row 1: L1, 628.99, 0, 0, N00° 04' 51.82"W, 100+00.00, 1158646.99, 485580.25, 106+28.99, 1159275.98, 485579.36

Table with 11 columns: Number, Length, Radius, Delta Angle, Line/Chord, Chord Length, Start Station, Start Northing, Start Easting, End Station, End Northing, End Easting. Rows 2-3: L2, L3

Table with 11 columns: Number, Length, Radius, Delta Angle, Line/Chord, Chord Length, Start Station, Start Northing, Start Easting, End Station, End Northing, End Easting. Rows 4-5: L4, L5

LINE TABLE with columns: LINE, LENGTH, DIRECTION. Rows L6-L17

LINE TABLE with columns: LINE, LENGTH, DIRECTION. Rows L18-L29

SANITARY STRUCTURES

- 1 SANITARY MANHOLE EL=5.02' 8"PVC INV (N)=-0.64' BOTTOM OF STRUCTURE EL=-8.14'
- 2 SANITARY MANHOLE EL=7.41' 8"PVC INV (N)=1.10' 8"PVC INV (E)=1.06' 8"PVC INV (S)=0.91'
- 3 SANITARY MANHOLE EL=7.10' 8"PVC INV (W)=2.06'
- 4 SANITARY MANHOLE EL=8.85' 8"PVC INV (N)=3.34' POSSIBLE 10"DIP INV (NE)=2.08' 8"PVC INV (S)=2.08'
- 5 SANITARY MANHOLE EL=9.29' 8"PVC INV (S)=3.87'
- 6 SANITARY MANHOLE EL=8.63' 6"DIP INV (N)=2.94' 8"PVC INV (E)=2.67'
- 7 SANITARY MANHOLE EL=9.50' 8"PVC INV (N)=1.47' 8"PVC INV (E)=1.43' 8"PVC INV (W)=1.45'
- 8 SANITARY MANHOLE EL=9.03' 8"PVC INV (W)=2.89'
- 9 SANITARY MANHOLE EL=4.30' 8"PVC INV (N)=-3.79'
- 10 SANITARY MANHOLE EL=7.11' 8"PVC INV (N)=-0.46' 8"PVC INV (E)=-1.09' 8"PVC INV (S)=-1.18' 8"PVC INV (W)=-1.02'
- 11 SANITARY MANHOLE EL=7.10' 8"PVC INV (E)=0.81'
- 12 SANITARY MANHOLE EL=6.46' 8"PVC INV (W)=0.58'
- 13 SANITARY MANHOLE EL=9.04' 8"PVC INV (S)=1.31'
- 14 SANITARY MANHOLE EL=11.69' 8"PVC INV (N)=0.13' 8"PVC INV (S)=0.19'
- 15 SANITARY MANHOLE EL=12.24' 8"PVC INV (N)=-1.22' 8"PVC INV (S)=-1.13'
- 16 SANITARY MANHOLE EL=10.75' 8"PVC INV (N)=-2.84' 8"PVC INV (S)=-2.78'
- 17 SANITARY MANHOLE EL=11.14' 8"PVC INV (S)=-3.34'

STORM STRUCTURES

- 18 15"CMP INV (N)=4.24' 15"CMP INV (S)=4.09'
- 19 CONCRETE HEADWALL 15"CMP INV=4.72'
- 20 CONCRETE HEADWALL 15"CMP INV=4.99'
- 21 12"RCP INV (N)=5.68' 12"RCP INV (S)=5.57'
- 22 CONCRETE MITERED END SECTION 12"ADS INV=5.96'
- 23 CONTROL STRUCTURE EL=7.80' 12"ADS INV=6.06' WEIR CUT INV (N)=7.36' WEIR CUT INV (W)=7.32' WEIR CUT INV (S)=7.32'
- 24 CONTROL STRUCTURE EL=6.79' 12"x18"ERCP INV (N)=5.20' WEIR CUT INV (W)=6.08'
- 25 CONTROL STRUCTURE EL=6.92' 12"x18"ERCP INV (E)=5.04' 12"x18"ERCP INV (S)=5.05' WEIR CUT INV (W)=5.83'
- 26 GRATE INLET 12"x18"ERCP INV (W)=5.10'
- 27 STORM MANHOLE EL=9.10' 18"RCP INV (N)=5.29' 18"RCP INV (E)=5.07'
- 28 STORM MANHOLE EL=9.28' 18"RCP INV (S)=5.43'
- 29 STORM MANHOLE EL=8.50' 60"x96" CULVERT INV (N)=-0.81' 54"RCP INV (S)=0.68' 18"RCP INV (W)=3.15'
- 30 STORM MANHOLE EL=8.63' 48"HOPE INV (N)=1.35' 60"x96" CULVERT INV (S)=0.95'
- 31 STORM MANHOLE EL=7.63' 48"HOPE INV (S)=0.73'
- 32 STORM MANHOLE EL=8.73' 15"RCP INV (N)=4.31' 30"RCP INV (E)=3.07' 30"RCP INV (S)=3.27'
- 33 STORM MANHOLE EL=6.88' 42"RCP INV (N)=1.33'
- 34 STORM MANHOLE EL=8.73' 15"RCP INV (S)=4.94'
- 35 CONTROL STRUCTURE 30"RCP INV (W)=3.40'
- 36 15"RCP INV=3.60'
- 37 CONCRETE HEADWALL 15"RCP INV=4.10'
- 38 15"RCP INV=4.26'
- 39 GRATE INLET EL=6.54' 15"RCP INV (N)=4.64' 15"CMP INV (S)=4.62'
- 40 CONCRETE HEADWALL 15"RCP INV=5.11'
- 41 CONCRETE HEADWALL 12"x18"ERCP INV=4.68'
- 42 CONCRETE HEADWALL 12"x18"ERCP INV=4.70'
- 43 12"RCP INV=5.45'
- 44 GRATE INLET EL=7.34' 12"x18"ERCP INV (N)=5.89' 12"x18"ERCP INV (S)=5.94'
- 45 GRATE INLET EL=7.53' 12"RCP INV (N)=5.95' 12"x18"ERCP (S)=5.91'
- 46 STORM MANHOLE EL=10.48' 12"x18"ERCP INV (N)=7.92' 12"x18"ERCP INV (S)=8.62' 12"x18"ERCP INV (W)=7.91'
- 47 GRATE INLET 12"x18"ERCP INV=7.69'
- 48 12"x18"ERCP INV=9.05'
- 49 12"CMP INV=9.02'
- 50 4"PVC INV=9.58'
- 51 12"RCP INV=9.75'
- 52 GRATE INLET EL=10.47' 12"x18"ERCP INV (S)=8.49'
- 53 12"RCP INV=9.80'
- 54 12"RCP INV=9.75'
- 55 CONCRETE MITERED END SECTION 12"x18"ERCP INV=9.37'
- 56 CONCRETE HEADWALL 12"x18"ERCP INV=9.55'
- 57 CONCRETE HEADWALL 12"x18"ERCP INV=9.62'
- 58 GRATE INLET EL=11.66' 15"RCP INV (N)=9.64' 12"x18"ERCP INV (S)=9.66' 12"x18"ERCP INV (W)=9.59'
- 59 CONCRETE MITERED END SECTION 12"x18"ERCP INV=10.28'
- 60 CONCRETE MITERED END SECTION 15"RCP INV=9.78'
- 61 CONCRETE MITERED END SECTION 12"x18"ERCP INV=9.93'
- 62 CONCRETE MITERED END SECTION 12"x18"ERCP INV=9.92'
- 63 CONCRETE MITERED END SECTION 12"x18"ERCP INV=10.20'
- 64 CONCRETE MITERED END SECTION 12"x18"ERCP INV=10.10'
- 65 CONCRETE HEADWALL 42"RCP INV=3.61'
- 66 CONCRETE HEADWALL 42"RCP INV=4.00'
- 67 STORM MANHOLE 34"RCP INV=-0.83'

FRANKLIN AVE & 301 NORTH
WATER MAIN REPLACEMENT PROJECT
SURVEY, S.U.E. & SEWER DATA

Table with columns: NO., REVISION DESCRIPTION, BY, DATE

Table with columns: PROJECT #, SURVEY #, SEC./TWN./RGE, SCALE, SEE PLAN, BY, DATE

ALEJANDRO GONZALEZ, P.E.
FLORIDA P.E. # 79278
Signature & Date

TEST HOLE DATA (ELEMENT ENGINEERING GROUP REPORT, JOB # FRANKLIN FDC)

| TEST HOLE | UTILITY | FIELD MARKING | GROUND EL. (FEET) | TOP OF PIPE (FEET) | NOTES PER ELEMENT REPORT |
|-----------|-----------------------------------|-------------------------------------|-------------------|--------------------|--|
| TH-01 | 6" PVC WATER LINE | FOUND HUB WITH LATH MARKED (C-2.61) | 9.08 | 6.47 | FOUND 6" PVC WL |
| TH-02 | 6" PVC WATER LINE | FOUND HUB WITH LATH MARKED (C-2.34) | 11.00 | 8.66 | FOUND 6" PVC WL |
| TH-03 | 4" PVC WATER LINE | FOUND NAIL WITH MARKING (C-1.88) | 10.23 | 8.35 | FOUND 4" PVC WL |
| TH-04 | 2" PE PIPE WITH FIBER OPTIC CABLE | FOUND HUB WITH LATH MARKED (C-2.62) | 9.12 | 6.50 | FOUND 2" PE FOC |
| TH-05 | 2" PVC WATER LINE | FOUND HUB WITH LATH MARKED (C-1.80) | 8.84 | 7.04 | FOUND 2" PVC WL |
| TH-06 | 1" CAST IRON PIPE WATER LINE | FOUND NAIL WITH MARKING (C-3.65) | 7.25 | 3.60 | FOUND 12" CAST IRON PIPE, POSS. - CASE UNDER RD |
| TH-07 | 6" PVC GAS LINE | FOUND NAIL WITH MARKING (C-2.75) | 7.34 | 4.59 | FOUND 6" PVC WHIT. POSS. CASE UNDER RD. TECO HAS LINE MARKED ON RD. AS 4" PL |

- NOTES:
- A NAIL AND DISK STAMPED LB6707 WAS SET AT EVERY 100' STATION ALONG ALL SURVEY BASELINES.
 - US 301 RIGHT-OF-WAY PER FDOT RIGHT-OF-WAY MAP SECTION 1302-(104)202. RIGHTS-OF-WAY LYING NORTH OF US 301 ARE PER MAP OR PLAT OF ELLENTON VILLAGE, AS RECORDED IN PLAT BOOK 1, PAGE 133 AND RIGHTS-OF-WAY LYING SOUTH OF US 301 ARE PER MAP OR PLAT OF PLAN OF STREETS AND BLOCKS IN THE TOWN OF ELLENTON, AS RECORDED IN PLAT BOOK 1, PG 337, BOTH OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA [PLAT DATA SHOWN AS (P) HEREON] (UNLESS OTHERWISE SPECIFIED ON THE MAP OF SURVEY).

PROJECT DATUM
BEARINGS AND COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON NATIONAL GEODETIC SURVEY (NGS), STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/2011 ADJUSTMENT.

CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) UTILIZED:
(1) MANATEE (GSPS): RECEIVER TYPE/SERIAL#: LEICA GR10 / 1702551; ANTENNA TYPE/SERIAL#: LEIAR20 / 16034016; (NORTHING = 1,145,619.696, EASTING = 542,303.564)

(2) ANNA MARIA ISLE (FLAI): RECIEVER TYPE/SERIAL#: LEICA GR10 / 1701977; ANTENNA TYPE/SERIAL#: LEICA AR20 / 16268009; (NORTHING = 1,133,278.398, EASTING = 432,312.165)
ALL AS PUBLISHED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION WEBSITE. (<http://www.dot.state.fl.us>).

VERTICAL:
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM, 1988 ADJUSTMENT (NAVD 88).

CONTROL BENCHMARK UTILIZED:
1. A FOUND STAINLESS STEEL ROD IN FLANGED CASE STAMPED "V565 2002", DESIGNATED "V565" BY NGS, PID = DE8846, ELEVATION = 7.84 FEET (NAVD 88)

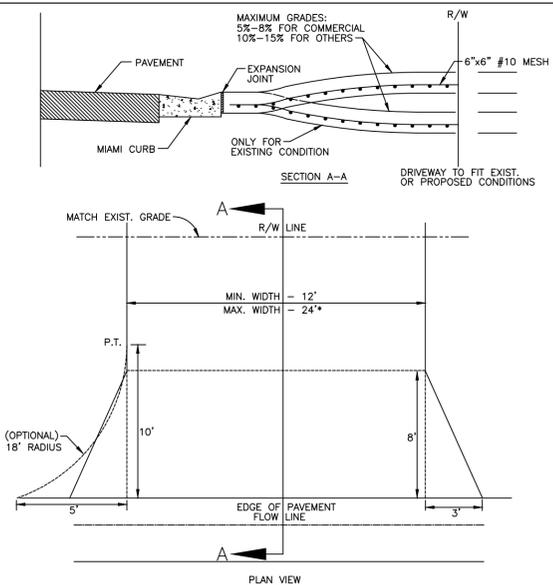
2. A FOUND ALUMINUM ALLOY ROD WITH ALUMINUM MANATEE COUNTY DISK STAMPED "COLUMBIA 2010", DESIGNATED "COLUMBIA" BY NGS, PID = DN9439, ELEVATION = 11.61 FEET (NAVD 88)

BOTH AS PUBLISHED BY THE NATIONAL GEODETIC SURVEY WEB SITE. (<http://www.ngs.noaa.gov>)

CONVERSION FACTOR:
ADD 0.98 FEET TO CONVERT TO NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUSTMENT (NGVD 29). CONVERSION CALCULATED UTILIZING VERTCON (VERSION 2.0).

S:\Projects\2012\17_089227\0\Subsgrm-Permitting\Franklin_WW_P_Design.dwg, 3/5/2023 2:29 PM Bruce Robertson, 11, ANS1 (all files) x 22.00 inches, UC-2018.S18

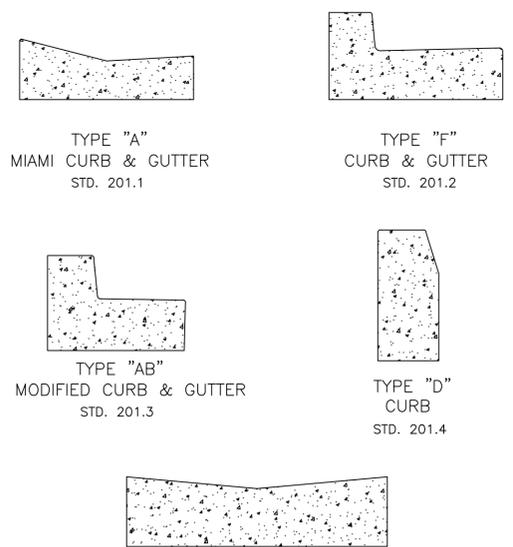
FRANKLIN AVE & 301 NORTH
WATER MAIN REPLACEMENT PROJECT
DETAILS



* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
a.) 30' total at the R/W line
b.) 30% of the front footage as defined on the survey (or field measurement, 36' max.)

- (A) CONSTRUCT WITH 6" REINFORCED CONCRETE 3000 PSI @ 28 DAYS, 6"x6" #10 WIRE MESH FROM BACK OF CURB TO R/W LINE.
- (B) DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ON PREVIOUS PAGE (STD. 101.0)
- (C) MAINTAIN EXISTING DRAINAGE FLOWLINE. FOR PIPING SPECIFICATIONS REFER TO F.D.O.T. STANDARD SPECIFICATIONS SECTION 430. SEE NOTE 4, PAGE 100.1. SEE SECTION 200- DRAINAGE (STD. 200.0, 202.5).
- (D) 3"x8" FLARE OR 18" RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE "F" CURB TO MIAMI CURB) SEE STD. 102.2. NO CHANGE WITH 3" VALLEY CROSSINGS - SEE STDS. 201.0, 201.1, 201.2, 201.4, 201.5, 201.6.
- (E) EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12' (BEYOND FLARE) PLACE JOINT ON 10' CENTER.
- (F) LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

| | | | |
|--|---------|--------------|-------|
| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | URBAN DRIVES | 101.1 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |

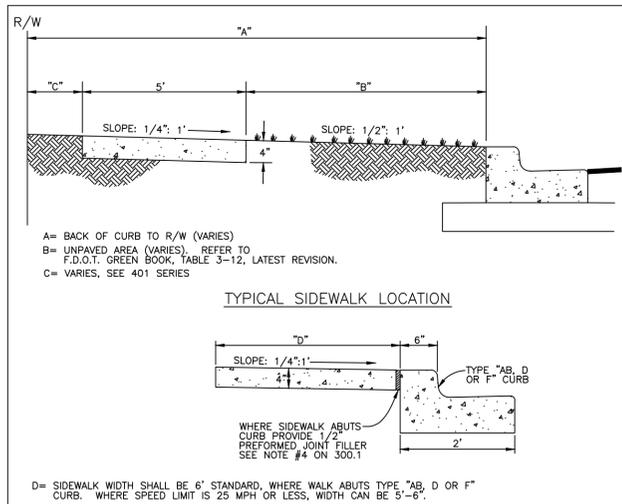


1. ALL CURB & GUTTER SHALL PROVIDE A 0.125" TO 0.25" CONTRACTION JOINT AT 10' CENTERS.
2. ALL CURB & GUTTER SHALL BE CONSTRUCTED IN COMPLIANCE WITH FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.
3. TOP OF FINISHED PAVEMENT SHALL BE 0.25" ABOVE LIP OF GUTTER, LOW SIDE.

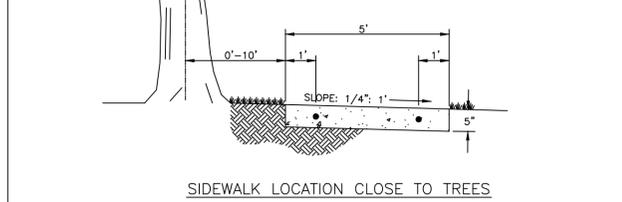
| | | | |
|--|---------|-----------------------------|-------|
| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | CURB & GUTTER CONTROL SHEET | 201.0 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |

- GENERAL NOTES**
1. SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 PSI CONCRETE. WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS 1 CONCRETE REINFORCED WITH 6"x6" #10 WIRE MESH.
* SEE SHEETS #101.2 & 101.3.
 2. ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENTIAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THOROUGHFARES. REFER TO F.D.O.T. ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.
 3. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE-FOOT TRAVERSE SECTION. THE EDGE OF THE SIDEWALK SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
 4. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE 1/2" MATERIAL SHALL MEET THE REQUIREMENTS OF ASHTO M153 OR ASHTO M213. FOR LONG POORS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.
 5. CONTRACTION JOINTS:
OPEN TYPE JOINTS
OPEN TYPE CONTRACTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.
SAWED JOINTS
A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.
 6. SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
 7. HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
 8. ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY SHALL BE 5" THICK AND CONTAIN 2-#3 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.
- *NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.

| | | | |
|--|---------|-------------------------|-------|
| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | SIDEWALKS GENERAL NOTES | 301.0 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |

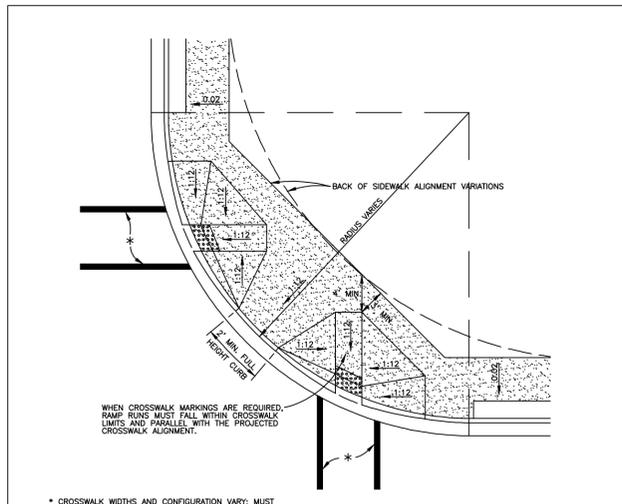


A= BACK OF CURB TO R/W (VARIES)
B= UNPAVED AREA (VARIES) REFER TO F.D.O.T. GREEN BOOK, TABLE 3-12, LATEST REVISION.
C= VARIES, SEE 401 SERIES



D= SIDEWALK WIDTH SHALL BE 6" STANDARD, WHERE WALK ABUTS TYPE "AB, D OR F" CURB. WHERE SPEED LIMIT IS 25 MPH OR LESS, WIDTH CAN BE 5'-6".
* SEE SHEET 300.1 "GENERAL NOTES" FOR FURTHER INFORMATION

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| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | SIDEWALK REQUIREMENTS | 301.1 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |

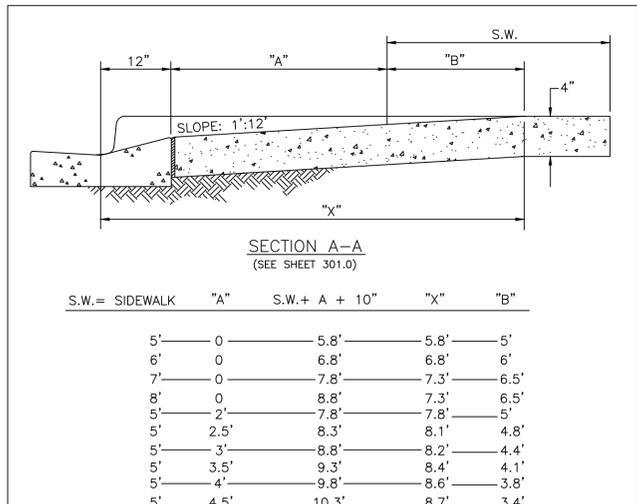


- 1) CURB CUT RAMPS ARE TO BE LOCATED AS SHOWN ON PLANS.
- 2) SEE SHEETS # 300.1 "GENERAL NOTES" & # 301.2 "HANDICAPPED RAMP" SHT 2 FOR FURTHER REQUIREMENTS.
- 3) RADIUS OF CURB VARIES AS FOLLOWS:
A) 25' RAD. LOCAL STREET WITH ALLEY.
B) 25' RAD. LOCAL STREET WITH LOCAL STREET.
C) 35' RAD. LOCAL STREET WITH THOROUGHFARE OR COLLECTOR.
D) 50' RAD. THOROUGHFARE WITH THOROUGHFARE
- 4) CURB RADIUS SHOULD BE A MINIMUM OF 50' WHERE INDUSTRIAL AND BUS TRAFFIC (5% OR MORE) IS ANTICIPATED ON LOWER CLASSIFICATION ROADWAYS.
- 5) BOTH LOCATION OPTIONS FOR HANDICAPPED RAMP ARE SHOWN. ENGINEER MAY SELECT EITHER, WHICHEVER FITS THE SITUATION.

* CROSSWALK WIDTHS AND CONFIGURATION VARY, MUST CONFORM TO FDOT INDEX NO. 17344 AND 17346.

NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

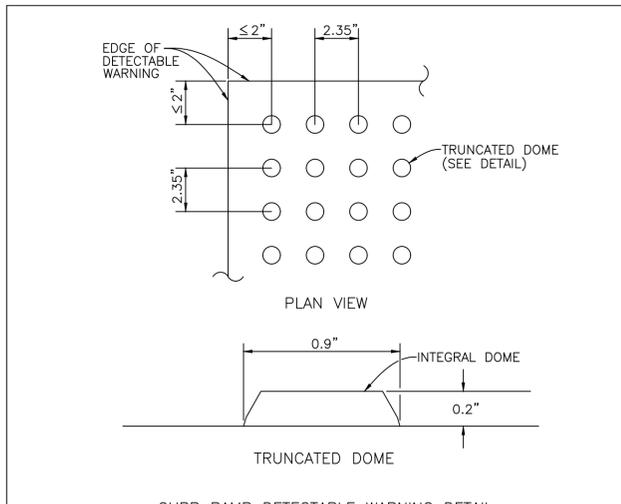
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| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | HANDICAPPED RAMP SHEET 1 | 302.1 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |



| | | | | |
|-----------------|------|----------------|------|------|
| S.W. = SIDEWALK | "A" | S.W. + A + 10" | "X" | "B" |
| 5' | 0 | 5.8' | 5.8' | 5' |
| 6' | 0 | 6.8' | 6.8' | 6' |
| 7' | 0 | 7.8' | 7.3' | 6.5' |
| 8' | 0 | 8.8' | 7.3' | 6.5' |
| 5' | 2.5' | 8.3' | 8.1' | 4.8' |
| 5' | 3' | 8.8' | 8.2' | 4.4' |
| 5' | 3.5' | 9.3' | 8.4' | 4.1' |
| 5' | 4' | 9.8' | 8.6' | 3.8' |
| 5' | 4.5' | 10.3' | 8.7' | 3.4' |
| 5' | 5' | 10.8' | 9.1' | 3.1' |

NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

| | | | |
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| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | HANDICAPPED RAMP SHEET 2 | 302.2 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |



NOTES:
DETECTABLE WARNINGS ON WALKING SURFACES
THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:
CONTRAST = [(B1-B2)/B1] x 100
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.
NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

| | | | |
|--|---------|-------------------------------|-------|
| MANATEE COUNTY TRANSPORTATION DEPARTMENT | | CURB RAMP DETECTABLE WARNINGS | 302.3 |
| REV. BY | DATE | | |
| | 6/12/07 | | |
| DATE OF B.O.C.C. APPROVAL | | | |

| NO. | REVISION DESCRIPTION | BY | DATE |
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|--------------------------|-------------|
| PROJECT # | 404-6092270 |
| SURVEY # | 0577-0043 |
| SEC./TWN./RGE | 17-34S-18E |
| SCALE | SEE PLAN |
| BY | DATE |
| SURVEYED | JTP 08/2018 |
| DESIGNED | AG 02/2021 |
| DRAWN | BR 02/2021 |
| CHECKED | AG 02/2021 |
| ALEJANDRO GONZALEZ, P.E. | |
| FLORIDA P.E. # 79278 | |
| Signature & Date | |

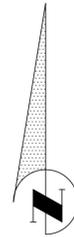
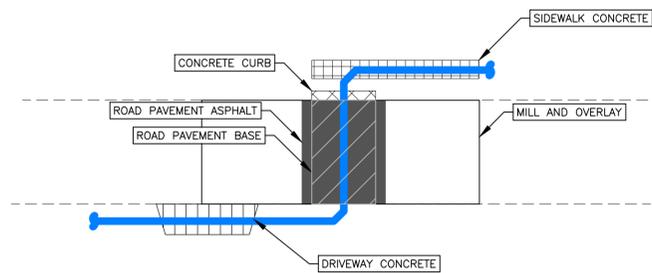
**FRANKLIN AVE & 301 NORTH
WATER MAIN REPLACEMENT PROJECT
RESTORATION AREAS**

RESTORATION QUANTITIES

| AREA | PAVEMENT RESTORATION | QTYS. | UNITS |
|------|-----------------------|-------|-------|
| | CONCRETE CURB | 25 | LF |
| | ROAD PAVEMENT BASE | 100 | SY |
| | ROAD PAVEMENT ASPHALT | 52 | SY |
| | MILL & OVERLAY | 389 | SY |
| | SIDEWALK CONCRETE | 448 | SY |
| | DRIVEWAY CONCRETE | 227 | SY |
| | SOD | 38 | SY |

| THERMOPLASTIC STRIPING RESTORATION | QTYS. | UNITS |
|--|-------|-------|
| STOP BAR, WHITE, 24" | 16 | LF |
| WHITE, 6" | 37 | LF |
| CROSS WALK, SPECIAL EMPHASIS FDOT 77-001 | 80 | LF |

TYPICAL HATCH PATTERNS



ELLENTON GILLETTE ROAD

US 301

37th AVE E

9TH ST E

FRANKLIN AVE

THIRD ST

SECOND ST

41ST AVE E

US 301

MILL AND OVERLAY AREA (TYP.)
RESTORE ALL THERMOPLASTIC STRIPING (TYP.)

ROAD PAVEMENT ASPHALT (TYP.)

SIDEWALK CONCRETE (TYP.)

DRIVEWAY CONCRETE (TYP.)

CONCRETE CURB (TYP.)

6

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5

| NO. | REVISION DESCRIPTION | BY | DATE |
|-----|----------------------|----|------|
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|--------------------------|-------------|
| PROJECT # | 404-6092270 |
| SURVEY # | 0577-0043 |
| SEC./TWN./RGE | 17-34S-18E |
| SCALE | 1:80 |
| | BY DATE |
| SURVEYED | JTP 08/2018 |
| DESIGNED | AG 02/2021 |
| DRAWN | BR 02/2021 |
| CHECKED | AG 02/2021 |
| ALEJANDRO GONZALEZ, P.E. | |
| FLORIDA P.E. # 79278 | |
| Signature & Date | |

S:\P\10_P\10_Share Projects\Water\Franklin Ave\301 N\171818.dwg 3/17/2023 2:41 PM Bruce Robertson, 11' ANSI Full sized 0 (54.00 x 22.00 inches), MC-2018-516

