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### Solicitation Addendum

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Addendum No.: 1  
Solicitation No.: 21-TA003651DJ  
Project No.: 6041587  
Solicitation Title: Holmes Boulevard Force Main Replacement  
Addendum Date: April 7, 2021  
Procurement Contact: Dave Janney, Senior Procurement Agent

**IFBC 21-TA003651DJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This Addendum is hereby incorporated in and made a part of IFBC 21-TA003651DJ.**

#### **CHANGE TO:**

#### **SECTION A, INFORMATION FOR BIDDERS, SECTION A.43, BASIS OF AWARD**

Multiple schedules for completion of Work shall be considered. Two bids shall be submitted and considered, Bid 'A' based on 270 calendar days completion time and Bid 'B' based on 240 calendar days completion time. County, at its sole discretion, shall select either Bid 'A' or Bid 'B', whichever is in the best interest of the County. Only one (1) award will be made.

#### **CHANGE TO:**

#### **SECTION A, INFORMATION FOR BIDDERS, SECTION A.45, COMPLETION OF WORK**

The Work will be completed and ready for final inspection within the specified calendar days from the date the Contract Time commences to run. Completion time shall be based on Bid 'A' for 270 calendar days or Bid 'B' based on 240 calendar days at the County's sole discretion.

#### **CHANGE TO:**

#### **SECTION B, BID FORMS, APPENDIX A, MINIMUM QUALIFICATIONS, PARAGRAPH 4**

Change Appendix A, Minimum Qualifications, Paragraph 4

4. Bidder has provided at least 3, 12" or greater Force Main Replacement Projects and at least 2, Water Main/Service Replacement Projects since March 1, 2016. Project clients must be agreeable to responding to an inquiry by the County.

**Provide the following information for the three (3) qualifying project references.**

- a) **Name of client**
- b) **Project name**
- c) **Location (City/State)**
- d) **Client contact name**
- e) **Contact phone**
- f) **Contact email**
- g) **Service dates (Start/End)**

**REPLACE:**

**SECTION B, BID FORMS, APPENDIX K, BID PRICING FORM**

Replace Appendix K Bid Pricing Form, with the Revised Appendix K Bid Pricing Form hereby incorporated into the IFBC.

**REPLACE:**

**SECTION C, BID ATTACHMENTS, BID ATTACHMENT 2, TECHNICAL SPECIFICATIONS, SECTION 01150**

Replace Section 01150 Measure and Payment in its entirety.

**REPLACE:**

**SECTION C, BID ATTACHMENTS, BID ATTACHMENT 3, PLANS, PLAN SHEETS 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, AND 18.**

Replace Bid Attachment 3, Plans, Plan Sheets 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18, with Revised Plan Sheets 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 issued with this Addendum 1 and available for download as a separate attachment.

**QUESTIONS AND RESPONSES:**

**Q1. What is the Engineer/Budget/Project Estimate?**

R1. The engineer's estimated opinion of cost is \$4,401,780.50.

**Q2. Can you send me a plan holders list for the Holmes Blvd Force main Project?**

R2. The system Procurement uses to advertise solicitations currently does not have the plan holder's list functionality activated. Procurement is working with the vendor to engage this feature. A plan holder's list will not be available for this IFBC.

**Q3. Reference specifications Section 01590, COUNTY'S FIELD OFFICE, this is a waste of tax payer's money, is it really necessary? Please remove this requirement from the specifications.**

R3. Field office is not required.

- Q4. Reference specifications Section B, page 21, APPENDIX A, MINIMUM QUALIFICATIONS, par. 4, the time constraint window from 2018 is too small, please consider a larger window, say from 2011.**
- R4. The date has been updated to March 1, 2016.
- Q5. Reference specifications Section B, page 21, APPENDIX A, MINIMUM QUALIFICATIONS, par. 4, to have completed 3-each 12-inch or larger force main replacement projects since 2018 is far and few between, please consider allowing installation of new pressure pipelines, force main, water main and reclaim water mains as an alternative, as projects with these types of infrastructure have been more frequent.**
- R5. No changes to this qualification.
- Q6. Reference Bid Form, Bid Item 16, Remove 4" Water Main, bid quantity shows 90LF, plans show 5' + 70' +75', please review and correct bid quantity.**
- R6. See Appendix K (Revised), changes highlighted in yellow, issued with this Addendum 1 and available for download as a separate attachment. Bid Item 16 quantity has been revised.
- Q7. Reference Bid Form, Bid Items, 31, 32, and 33, will Manatee County's Utilities Department make these small diameter wet taps and if so, how much will the Contractor be charged for this service?**
- R7. Manatee County will perform wet taps for water mains up to 12-inch in diameter. No cost will be charged to the Contractor for the tapping procedure performed by the County. Contractor to provide materials including tapping sleeve and valve, excavation, dewatering, and any other necessary resources for the County to perform the wet taps.
- Q8. Reference Bid Form, Bid Item 31, some of these 16"x6" tapping sleeves and valves are being installed at the same location of a removed tapping sleeve and valve, we will not be able to perform a pressure test to the new tapping sleeve and valve due to the opening in the pipe from the previous tap, any suggestions?**
- R8. Pressure test will not be required. Visual leakage inspection will be performed by County inspector.
- Q9. Reference Bid Form, Bid Item 50, the bid quantity shows 6-each, why? The bid quantity for 10-inch DI pipe is only 20LF. Please review.**
- R9. Additional quantity is included in the bid form to account for unknown conditions.
- Q10. Reference specifications Section 01150, MEASUREMENT AND PAYMENT, page 38, BID ITEM – DUCTILE IRON FITTINGS, WATER, second sentence, reference to "mechanical joint restraint" from this we understand that mechanical joint restrainers for fittings will be paid with the price for the fitting and that is the way it should be, now look at page 39 of this same specification Section, pertaining to GATE VALVES, all the gate valves that will be installed will be mechanical joint and will need "mechanical joint restraint", but the measurement and payment description for gate valves does not make mention to that, please confirm that the gate valve restraints will be paid in the price of each gate valve.**

- R10. Mechanical joint restraints installed on gate and plug valves will be paid for under the bid item for the install of each valve.
- Q11. Please clarify that Bid Items, 49 through 53 are strictly for use on new installed slip-on joint PVC or D.I.P. bell joints and not intended for use on mechanical joint ends.**
- R11. Bid items 49 through 53 are strictly for use on new slip-on joint PVC pipe bell or DI pipe bell joints. Fittings and valve restraints are to be included as part of the bid item for fittings or valves.
- Q12. Reference Bid Form, Bid Item 60, according to the Measurement and Payment description for this item we are to include either the cost for a new ductile iron fitting and gate valve or a new tapping sleeve and valve, how do we know which hydrants get either a fitting or a sleeve? Please clarify.**
- R12. Contractor will expose the water main and replace the existing tee and gate valve or tapping sleeve and gate valve. The Contractor is required to replace the existing condition with the same configuration.
- Q13. Reference Bid Form, Bid Items 56, 57 and 58, Connection to Existing 10”, 6” and 4” Water Main, what type of pipe material will the existing mains be, ductile-iron, cast-iron, ductile iron out side diameter PVC, steel pipe diameter PVC or asbestos cement? Please clarify.**
- R13. The existing water main material is unknown. Contractor will be required to field verify pipe material prior to ordering materials.
- Q14. Reference Bid Form, Bid Items 46 and 47, Remove and Replace Service Saddles, instead of installing a new service saddle and threaded plug, why not install a full wrap around stainless steel sleeve to cover the opening in the pipe to better ensure against leaks?**
- R14. Contractor shall install the new service saddle and threaded plug as designed. Visual leakage inspection will be performed by County inspector.
- Q15. The water main line will be shut down several times to install new tapping sleeves or new valves on existing tees, will the existing line have to be re-chlorinated each time, how can that be done when residents are still connected?**
- R15. Existing water mains will not have to be chlorinated if residents are connected to the isolated main. New tapping sleeves and/or valves and existing tees will have to disinfected by means approved by the County, such as brush cleaning with diluted sodium hypochlorite, to ensure no debris/contaminants are present prior to re-pressurizing the line.
- Q16. Reference both bid forms, Water and Sewer, each bid form has a bid item for “Permit Allowance”, the Measurement and Payment Section tells us we are to allow \$5,000.00 for this bid item, are we to put \$5,000.00 in each of these bid items or are we to split that amount in half for each item? Please clarify.**
- R16. Contractor shall input \$2,500 for each bid form

- Q17. Please provide Engineer's Estimate for Water Main Scope.**
- R17. The engineer's estimated opinion of cost for the Water Main scope is \$1,252,225.18.
- Q18. Please provide Engineer's Estimate for Force Main Scope.**
- R18. The engineer's estimated opinion of cost for the Sewer scope is \$3,149,555.32.
- Q19. Please provide Engineer's Estimate for Water Main and Force Main combined.**
- R19. Refer to R1.
- Q20. Please clarify if the County wants a separate price for the Water Main Scope for Bid A 210 days and a another price for Bid B 180 days.**
- R20. Yes, if the contractor is providing a bid response for Bid A and Bid B, the Bid Response shall be separated.
- Q21. Please clarify if the County wants a separate price for the Force Main Scope for Bid A 210 days and a another price for Bid B 180 days.**
- R21. Yes, if the contractor is providing a bid response for Bid A and Bid B, the Bid Response shall be separated.
- Q22. Please advise if Builder's Risk insurance is required for this project.**
- R22. Yes, refer to Section C, Bid Attachments, Bid Attachment 1, Insurance and Bond Requirements.
- Q23. For Item 84 Tree Removal and Replacement, please clarify it the trees are to be removed, relocated and replanted or removed, disposed and replaced new. If to be replaced new, please provide tree inventory and minimum caliper diameter and height.**
- R23. Trees removal and replacement will need to be coordinated with the City of Holmes Beach.
- Q24. For Item 86 Storm Water Inlet and Piping, please provide quantity in EA for Inlet and in LF for Piping.**
- R24. Contractor shall bid stormwater modifications as a lump sum as shown on the bid form. It is up to the Contractor's discretion to identify any stormwater infrastructure damage or replacement needed to perform the work as shown on the Contract Documents.
- Q25. Please provide Detail for the Storm Water Inlet.**
- R25. Storm water inlets shall be replaced to match existing type of inlet. FDOT Design Standard index 430-022 shall be used.
- Q26. Please provide pay item for cut-in and connect to existing Fire Hydrant at +/- STA 70+00.**
- R26. See Appendix K (Revised), changes highlighted in yellow, issued with this

Addendum 1 and available for download as a separate attachment. Cut in and connect to the existing fire hydrant at Sta 70+00 shall be paid for under Bid Item 57 "Cut and Connect to Existing 6" Water Main".

- Q27. Please provide pay item for the 16" Line Stop on sheet 16.**
- R27. Line stops are included under Bid Item No. 7 "Bypass Pumping".
- Q28. Please advise if the County will provide the water meter for the lift station. If not, please provide model and manufacturer.**
- R28. County will provide the water meter for the lift station.
- Q29. Please advise if the County will provide the Back Flow Preventer for the lift station. If not, please provide model and manufacturer.**
- R29. Refer to the County's Approved Product List for model and manufacturer. Contractor to provide backflow preventer assembly.
- Q30. Detail US-18 on sheet 23 states that Contractor shall verify 36"x48" Aluminum Hatch before ordering. Please clarify if this spec is applicable to this project. If yes, please provide pay item.**
- R30. Aluminum hatch shall not be replaced as part of this project.
- Q31. Bid Item No 4 Measurement and Payment, Unless otherwise indicated herein these documents or in the construction plans, clearing and grubbing includes a ten (10) foot strip along the pipeline route. Please advise if this spec applies to this project. This will require destroying land scaping on private property.**
- R31. This specification applies a general guidance to the Contractor. Construction limits are bounded by the right-of-way line, therefore private property shall not be disturbed. Contractor to determine clearing and grubbing limits in the Right-of-Way.
- Q32. Please advise if poly encasement is required to wrap all the DIP for the water main and sewer fittings.**
- R32. Polyethylene encasement per the Approved Products List shall be required to wrap all DIP mains, fittings, and valves.
- Q33. Please advise if Protecto 401 is an acceptable lining for the Force Main DI Fittings.**
- R33. Protecto 401 is not an approved lining.
- Q34. Please confirm that all Taps up to 12" will be performed by the County.**
- R34. Confirmed. Refer to R7 of this Addendum 1.
- Q35. Please confirm that testing and inspections will be paid for by the County. i.e. density, concrete, asphalt, soil.**
- R35. The County will pay for testing and inspections. Contractor shall coordinate with County's third party testing firm during construction.

- Q36. Please advise the type of sod required for this project.**
- R36. Per Specification Section 02485, the Contractor shall furnish Bahia grass sod or match existing sod to be determined by the County Inspector.
- Q37. Bid Items Water Services in the Measurement and Payment states... backflow preventer assemblies (if applicable), and private side plumbing. Please advise how many backflow preventer assemblies are required for this project.**
- R37. City of Holmes Beach is in Flood Zone AE. According to Chapter 2-31, Article X of the Manatee County Code of Ordinances, every water service connection shall have an approved backflow preventer assembly in this flood zone. All water services in this project shall have a backflow preventer assembly. Plans have been revised to show new backflow preventer assemblies downstream of the meter box. Refer to the revised Measurement and Payment section for Bid Items 63-67.
- Q38. For Item 76 Brick Driveway repair, please clarify if the Contractor can use salvaged brick paver for repair or the County requires all new brick pavers for the repair.**
- R38. Contractor shall use the salvaged brick pavers for driveway restoration if pavers have not been damaged during removal. Contractor to ensure all driveways are accurately documented in the pre-construction video. If brick pavers are damaged during construction, Contractor shall furnish new pavers to match existing driveways.
- Q39. For Item 81 Removal and Replacement of Infiltration trench, please advise if the Contractor can use existing material for the infiltration trench or the County requires new import materials.**
- R39. Contractor shall use new material for infiltration trench per the City of Bradenton Beach Infiltration Trench detail.
- Q40. Please provide infiltration trench detail per City of Bradenton Beach detail.**
- R40. Infiltration trench detail is found on Sheet 22 of the plan set.
- Q41. 1.01 REQUIREMENTS INCLUDED  
Contractor shall furnish, install and maintain one temporary field office during the entire construction period for the sole use of the County.**
- Please advise if the County Requires a Temporary Field office for the entire length of the project. If yes, please provide pay item.**
- R41. Field office is not required.
- Q42. SECTION 02590 WATER SERVICES ON PRIVATE PROPERTY  
Backflow Preventers and associated Thermal Expansion Tanks and vacuum breakers on all outside hose bibs shall be installed by the Contractor where cross connection risks are present, as required by the applicable County Ordinances and Plumbing Codes. Installation of Expansion Tanks will often require the Contractor to access inside existing buildings and coordinate work and timing with individual property owners**

**Please clarify if this spec applies to this project. If yes, please advise quantity and pay items for backflow preventers, thermal expansion tanks and vacuum breakers.**

R42. Backflow preventers are required at each water service connection. This work shall be performed by a licensed plumber. Backflow preventers will be paid for under the water service bid items. Thermal expansion tanks and vacuum breakers are not included in this Bid package. Refer to the revised Measurement and Payment section for Bid Items 63-67.

**Q43. All work on customer service lines conducted on private property shall be performed by a plumber licensed in Manatee County and experienced in furnishing and installing potable water plumbing systems. Please advise how many homes will require a license plumber. Also provide plumbing permit fee for per home.**

R43. All water service connections will require a licensed plumber for work performed within private property including but not limited to meter box relocation, private side plumbing connections, and backflow preventer install and connections. Contractor is responsible for hiring a licensed plumber for completing the work and paying for each plumbing permit fee if necessary. Refer to the revised Measurement and Payment section for Bid Items 63-67.

**Q44. SECTION 02615 DUCTILE IRON PIPE AND FITTINGS  
Rubber gaskets shall conform to AWWA C111 and shall be provided per the latest revision of the County's Approved Products List. Gaskets shall be Ethylene Propylene Diene Monomer (EPDM) rubber for potable water and reclaimed water mains.**

**Please advise if SBR gaskets will be acceptable for DIP potable water main.**

R44. EPDM Gaskets will be required for potable DIP water mains.

**Q45. SECTION 02622 POLYVINYL CHLORIDE (PVC) PRESSURIZED PIPE AND FITTINGS  
Standard PVC pressure pipe joints shall be bell and spigot push-on type with elastomeric ring seals. Ring seal gaskets used at push-on joints shall conform to ASTM F477 and shall be EPDM rubber for potable and reclaimed water pipes.**

**Please advise if SBR gaskets will be acceptable for PVC potable water main.**

R45. EPDM gaskets will be required for potable PVC water mains.

**Q46. SECTION 02628 SANITARY SEWER MANHOLE AND WET WELL  
FIBERGLASS LINERS**

**1.01 SCOPE OF WORK**

**The Contractor shall furnish all labor, equipment and materials required to install fiberglass liners with the largest diameter to fit inside the structure and leave a 2" to 3" annular space for grouting purposes.**

**Please advise if Fiberglass Liners are required for the MH and Wet Well. If yes, please provide pay item for MH and Wet Well. Also provide, Wet Well Item Rehab if this spec is applicable to this project.**

R46. Fiberglass liners are not required for the connection manhole or the wetwell. Contractor shall use spray-on liner to rehab force main connection manhole and the two downstream manholes per detail 1 on Sheet 20 and paid for under Bid Item 62. Approved products are Green Monster and Raven 405 per the Approved Products List.

**Q47. 2.03 TRACER WIRE BOXES**

**All tracer wire termination points must utilize an approved trace wire access box per the latest edition of the County's Approved Products List.**

**Please advise if tracer wire boxes are required for this project. If yes, please provide pay item and quantity.**

R47. Tracer wire boxes are required for this project. Boxes are to be installed per the details in the Contract Documents and paid for under the bid item for under each gate valve, plug valve, tapping sleeve and valve, and fire hydrant bid item.

**Q48. Due to well pointing and dewatering, please advise if there is any contaminated areas in the vicinity of this project.**

R48. If contaminated soils are encountered, a change order shall be prepared during construction to ensure proper disposal of soils.

**Q49. Reference Bid Form, SEWER, Bid Item 48, 2" ARV Type 2 (Above Ground), bid form quantity shows 4-each, plans show 3-each, please review.**

R49. Additional quantity is included in the bid form to account for unknown conditions.

**Q50. Reference plan sheet 16, the existing 16-inch force main that currently discharges into the same manhole the new 16-inch force main has to be connected to, see plan sheet 16, how long can the existing force main be shut down?**

R50. Contractor will be required to install a linestop on the existing force main and discharge the bypassed flows to the downstream manhole. The force main can be shut down as needed provided that the Contractor provides adequate tanker trucks available at the lift station per Specification 02720.

**Q51. After reviewing the GIS map for the Holmes Beach gravity sanitary sewer collection system, it appears there will be three (3) lift stations contributing flow to the existing force main, please provide flow volume information for Lift Stations #59, #62 and #64.**

R51. Flow volume information for the lift stations are found in the Measurement and Payment section, under bid item 7.

**Q52. The pump stations referenced in the above question #51, how long can these stations be shut down?**

- R52. It is strongly recommended that the work to the lift stations referenced in Question #51 be performed at night to minimize possible downtime. All of the lift stations can be shut down as needed provided that the Contractor provides adequate tanker trucks available at each lift station per Specification 02720.
- Q53. Reference Bid Form, SEWER, Bid Item 68, Selected Common Fill, bid quantity 4,137CY seems excessive, what is the intent of this item and where will this material be installed, what are we doing with this material?**
- R53. This quantity of Selected Common Fill will be installed where the pipeline is underneath asphalt pavement surfaces per detail UG-12 and UG-12B.
- Q54. Reference plan sheet 20, MANHOLE #S23 FORCE MAIN CONNECTION DETAIL, Note 2, Install Removable Jack-In Resilient Connector Boot, this will not work as a hole in the wall of the manhole to accommodate the existing force main pipe was cast in the manhole when it was manufactured and will not accommodate this kind of boot and we do not know how large the opening is, can a Kor-N-Seal rubber boot be used on the spigot end of the pipe instead and grouted in the opening?**
- R54. Contractor will be required to chip out the existing boot and replace with new jack-in resilient connector boot. Contractor shall grout as necessary to create a leak-free connection.
- Q55. Reference plan sheet 14, the Proposed Double Long Water Service at approximately Station 79+75, the plan sheet shows the line that this new double service is to replace as a 2-inch line currently providing service to the meter, please review and clarify.**
- R55. The 2-inch water service shall be removed and a new double water service shall be installed. The meters inside the property will need to be brought to the edge of the Right-of-Way line.
- Q56. The contract times of 180 or 210 calendar days, in either case is not enough time to complete the job, please consider 330 and 360 calendar days for contract times. There is too much work to be done in those short amount of times.**
- R56. Bid A has been updated to 270 Calendar Days and Bid B has been updated to 240 Calendar Days.
- Q57. The vendors for PVC pipe cannot commit to holding prices for more than 15-days from bid date and are telling us the price of the pipe at time of shipment is what we will have to pay, please confirm the County will work with the successful Contractor with regard to this matter.**
- R57. Yes, the County will work with the Contractor as long as they have the proper supporting documentation.
- Q58. Reference Bid Form, SEWER, Bid Item 83, Grout Fill and Abandon Existing Pipelines, the bid quantity, 280CY, is more than what will be needed to fill the 8-inch and 16-inch existing force main pipe, please review.**
- R58. See Appendix K (Revised), changes highlighted in yellow, issued with this

Addendum 1 and available for download as a separate attachment. Bid Item 83 has been revised to 240 CY.

**Q59. With the current bid date of April 30, 2021, will you consider allowing more time to submit questions by revising the question deadline one week to April 2, 2021?**

R59. All questions submitted are reviewed by the Project Manager and the Engineer of Record.

**Q60. Please clarify that the Owner accepts generator status of all known and unknown pre-existing hazardous material and will sign transportation manifests as such whether shown in the documents or not, to be removed under this contract.**

R60. Refer to response #48.

**Q61. Please confirm a mutual waiver of consequential damages, will be inserted into the contract documents which would state:  
“In no event shall any Indemnified Party or the Contractor be liable to the other for any indirect, special or consequential damages (including, but not limited to, loss of profits, interest, earnings or loss of use) whether arising in contract, tort or otherwise.”**

R61. Claims for Consequential Damages are covered in Article VIII of the Sample Agreement.

**Q62. Please confirm that Liquidated Damages will be the sole and exclusive remedy for delay.**

R62. Any remedy for delay shall be addressed in the resulting agreement.

**Q63. The suppliers are asking what type of material is required for the line stop. Are there any AIS or Buy American requirements for this project?**

R63. Since the existing pipeline will be grouted and abandoned, acceptable linestop material is epoxy coated carbon steel with minimum 304 stainless steel hardware. There aren't any AIS or Buy American requirements for this project.

**Q64. The bid documents call for crushed concrete road base. We can obtain commercial grade crushed concrete that meets the specifications, however, It is not FDOT certified. There is no FDOT certified crushed concrete available in the open market in this area. Will this be acceptable material for this project?**

R64. FDOT certified crushed concrete shall be used for this project.

**Q65. The plans do not call out for specific drainage removals/replacements. There are potential unknown conflicts that make a lump sum payment difficult to analyze and price. Please consider making an allowance for the drainage replacement or provide specific size and quantities for the contractors to price. This will put all contractors on the same playing field.**

R65. Refer to R24.

**NOTE:**

Items that are ~~struck through~~ are deleted. Items that are underlined have been added or changed. All other terms and conditions remain as stated in the IFBC.

**INSTRUCTIONS:**

Receipt of this Addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

**END OF ADDENDUM**

AUTHORIZED FOR RELEASE

**APPENDIX K, BID PRICING FORM**

IFBC No. 21-TA003651DJ HOLMES BOULEVARD FORCE MAIN REPLACEMENT

**Total Bid Price/Offer for Bid "A": \$\_\_\_\_\_ Complete. Based on a completion time of 270 calendar days.**

**Total Bid Price/Offer for Bid "B": \$\_\_\_\_\_ Complete. Based on a completion time of 240 calendar days.**

We, the undersigned, hereby declare that we have carefully reviewed the IFBC Documents in their entirety and with full knowledge and understanding of the Bid information and all its requirements, submit this Bid, which is complete in meeting each specification, term, and condition contained therein.

As Bidder, we understand that the IFBC documents, including but not limited to, all specifications, terms, and conditions shall be made a part of any resulting Agreement between County and the successful Bidder. Failure by successful Bidder to comply with such specifications, terms and conditions shall result in Agreement default, whereupon, the defaulting successful Bidder shall be required to pay for all re-procurement costs, damages, and attorney fees as incurred by County, and agrees to forfeit its bid bond.

**Authorized Signature(s):** \_\_\_\_\_

**Name and Title of Above  
Signer(s):** \_\_\_\_\_

**Date:** \_\_\_\_\_

**APPENDIX K (REVISED), BID PRICING FORM (SEWER)**  
**21-TA003651DJ, HOLMES BOULEVARD FORCE MAIN REPLACEMENT**  
**COUNTY PROJECT NO. 6041587**

ITEM	DESCRIPTION	QTY	UNITS	UNIT PRICE BID A <u>270</u> Calendar Days	AMOUNT BID A <u>270</u> Calendar Days	UNIT PRICE BID B <u>240</u> Calendar Days	AMOUNT BID B <u>240</u> Calendar Days
<b>I. GENERAL</b>							
1	Mobilization	1	LS		\$0.00		\$0.00
2	Maintenance of Traffic	1	LS		\$0.00		\$0.00
3	Erosion and Sediment Control	1	LS		\$0.00		\$0.00
4	Clearing and Grubbing	1	LS		\$0.00		\$0.00
5	Record Drawings	1	LS		\$0.00		\$0.00
6	Preconstruction Video	1	LS		\$0.00		\$0.00
7	Bypass Pumping	1	LS		\$0.00		\$0.00
8	Project Signs	1	EA		\$0.00		\$0.00
	<b>SUBTOTAL</b>				<b>\$0.00</b>		<b>\$0.00</b>
<b>II. PROPOSED IMPROVEMENTS</b>							
9	16" DR 18 PVC Pipe (Open-Cut)	4,000	LF		\$0.00		\$0.00
10	8" DR 18 PVC Pipe (Open-Cut)	900	LF		\$0.00		\$0.00
17	30" Steel Casing with 16" Carrier Pipe (Jack and Bore)	90	LF		\$0.00		\$0.00
18	16" DI Fitting - 45 Degree Bend (Wastewater)	20	EA		\$0.00		\$0.00
19	16" DI Fitting - 22.5 Degree Bend (Wastewater)	3	EA		\$0.00		\$0.00
20	16" DI Fitting - 11.25 Degree Bend (Wastewater)	6	EA		\$0.00		\$0.00
21	16" x 12" DI Fitting - Reducer (Wastewater)	1	EA		\$0.00		\$0.00
22	16" x 8" DI Fitting - Tee (Wastewater)	1	EA		\$0.00		\$0.00
23	8" DI Fitting - 45 Degree Bend (Wastewater)	3	EA		\$0.00		\$0.00
24	8" DI Fitting - 22.5 Degree Bend (Wastewater)	5	EA		\$0.00		\$0.00
25	8" x 4" DI Fitting - Reducer (Wastewater)	1	EA		\$0.00		\$0.00
44	16" Plug Valve	3	EA		\$0.00		\$0.00
45	8" Plug Valve	1	EA		\$0.00		\$0.00
48	2" ARV Type 2 (Above Ground)	4	EA		\$0.00		\$0.00
49	16" Bell Joint Pipe Restraints	100	EA		\$0.00		\$0.00
51	8" Bell Joint Pipe Restraints	10	EA		\$0.00		\$0.00
54	Connection to Existing 12" Force Main	1	EA		\$0.00		\$0.00
55	Connection to Existing 4" Force Main	1	EA		\$0.00		\$0.00
61	Connection To Manhole	1	EA		\$0.00		\$0.00
62	Manhole Rehabilitation	3	EA		\$0.00		\$0.00
68	Selected Common Fill	4,137	CY		\$0.00		\$0.00
69	Crushed Concrete Base, 8" Thick	2,678	SY		\$0.00		\$0.00
70	Asphaltic Concrete Structure Course – Type S-I, 1-1/4" Thick	334	TN		\$0.00		\$0.00
71	Friction Course Overlay – Type S-III, 3/4" Thick	539	TN		\$0.00		\$0.00
72	Milling	6,776	SY		\$0.00		\$0.00
73	Removal of Unsuitable Material	100	CY		\$0.00		\$0.00
74	Import of Suitable Backfill	100	CY		\$0.00		\$0.00
75	Sodding	6,178	SY		\$0.00		\$0.00
76	Brick Driveway Repair	1,020	SY		\$0.00		\$0.00
77	Concrete Driveway Repair	325	SY		\$0.00		\$0.00
78	Shell Driveway Repair	1,000	SY		\$0.00		\$0.00
79	Concrete Sidewalk Repair	429	SY		\$0.00		\$0.00
80	Mailbox Removal and Replacement	10	EA		\$0.00		\$0.00
81	Removal and Replacement of Infiltration Trench	1,232	SY		\$0.00		\$0.00
82	Pigging and Pressure Testing	1	LS		\$0.00		\$0.00
83	Grout Fill and Abandon Existing Pipelines	<u>240</u>	CY		\$0.00		\$0.00
84	Tree Removal and Replacement	10	EA		\$0.00		\$0.00
85	Permit Allowance	1	LS		\$0.00		\$0.00
86	Removal and Replacement of Stormwater Inlet and Piping	1	LS		\$0.00		\$0.00
	<b>SUBTOTAL</b>				<b>\$0.00</b>		<b>\$0.00</b>
	<b>TOTAL (Sections I and II)</b>				<b>\$0.00</b>		<b>\$0.00</b>
88	Contingency	10%	LS		\$0.00		\$0.00
	<b>SEWER CONSTRUCTION TOTAL</b>				<b>\$0.00</b>		<b>\$0.00</b>

Changed Bid A  
from 210 to 270  
Changed Bid B  
from 180 to 240

from 280 to 240

**APPENDIX K (REVISED), BID PRICING FORM (WATER)**  
**21-TA003651DJ, HOLMES BOULEVARD FORCE MAIN REPLACEMENT**  
**COUNTY PROJECT NO. 6041587**

ITEM	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
				<b>BID A</b>	<b>BID A</b>	<b>BID B</b>	<b>BID B</b>
				<u>270</u> Calendar Days	<u>270</u> Calendar Days	<u>240</u> Calendar Days	<u>240</u> Calendar Days
<b>I. GENERAL</b>							
1	Mobilization	1	LS		\$0.00		\$0.00
2	Maintenance of Traffic	1	LS		\$0.00		\$0.00
3	Erosion and Sediment Control	1	LS		\$0.00		\$0.00
4	Clearing and Grubbing	1	LS		\$0.00		\$0.00
5	Record Drawings	1	LS		\$0.00		\$0.00
6	Preconstruction Video	1	LS		\$0.00		\$0.00
8	Project Signs	1	EA		\$0.00		\$0.00
	<b>SUBTOTAL</b>				<b>\$0.00</b>		<b>\$0.00</b>
<b>II. PROPOSED IMPROVEMENTS</b>							
11	10" DI Class 350 Pipe (Open-Cut)	20	LF		\$0.00		\$0.00
12	6" DI Class 350 Pipe (Open-Cut)	590	LF		\$0.00		\$0.00
13	4" DI Class 350 Pipe (Open-Cut)	20	LF		\$0.00		\$0.00
14	Remove 10" Water Main	30	LF		\$0.00		\$0.00
15	Remove 6" Water Main	326	LF		\$0.00		\$0.00
16	Remove 4" Water Main	160	LF		\$0.00		\$0.00
26	6" DI Fitting - 45 Degree Bend (Water)	27	EA		\$0.00		\$0.00
27	6" DI Fitting - 22.5 Degree Bend (Water)	4	EA		\$0.00		\$0.00
28	6" DI Fitting - Plug with 2" Threaded Port (Water)	6	EA		\$0.00		\$0.00
29	6" x 4" DI Fitting - Reducer (Water)	4	EA		\$0.00		\$0.00
30	4" DI Fitting - Plug (Water)	2	EA		\$0.00		\$0.00
31	16" x 6" Tapping Sleeve and Valve	10	EA		\$0.00		\$0.00
32	16" x 4" Tapping Sleeve and Valve	1	EA		\$0.00		\$0.00
33	12" x 6" Tapping Sleeve and Valve	5	EA		\$0.00		\$0.00
34	16" x 2" Tapping Sleeve with 2" Threaded Plug	1	EA		\$0.00		\$0.00
35	Remove 16" x 6" Tapping Sleeve and Valve	5	EA		\$0.00		\$0.00
36	Remove 16" x 4" Tapping Sleeve and Valve	1	EA		\$0.00		\$0.00
37	Remove 16" x 2" Tapping Sleeve and Valve	1	EA		\$0.00		\$0.00
38	10" Gate Valve	1	EA		\$0.00		\$0.00
39	6" Gate Valve	5	EA		\$0.00		\$0.00
40	4" Gate Valve	1	EA		\$0.00		\$0.00
41	Remove 10" Gate Valve	1	EA		\$0.00		\$0.00
42	Remove 6" Gate Valve	5	EA		\$0.00		\$0.00
43	Remove 4" Gate Valve	1	EA		\$0.00		\$0.00
46	Remove and Replace 12" x 2" Service Saddle	4	EA		\$0.00		\$0.00
47	Remove and Replace 16" x 2" Service Saddle	2	EA		\$0.00		\$0.00
50	10" Bell Joint Pipe Restraints	6	EA		\$0.00		\$0.00
52	6" Bell Joint Pipe Restraints	35	EA		\$0.00		\$0.00
53	4" Bell Joint Pipe Restraints	4	EA		\$0.00		\$0.00
56	Connection to Existing 10" Water Main	1	EA		\$0.00		\$0.00
57	Connection to Existing 6" Water Main	11	EA		\$0.00		\$0.00
58	Connection to Existing 4" Water Main	6	EA		\$0.00		\$0.00
59	Connection to Existing 2" Water Main	6	EA		\$0.00		\$0.00
60	Remove and Replace Fire Hydrant Assembly	4	EA		\$0.00		\$0.00
63	Single Short Water Service	18	EA		\$0.00		\$0.00
64	Double Short Water Service	13	EA		\$0.00		\$0.00
65	Single Long Water Service with Casing	20	EA		\$0.00		\$0.00
66	Double Long Water Service with Casing	7	EA		\$0.00		\$0.00
67	Triple Short Water Service	6	EA		\$0.00		\$0.00
68	Selected Common Fill	638	CY		\$0.00		\$0.00
69	Crushed Concrete Base, 8" Thick	672	SY		\$0.00		\$0.00
70	Asphaltic Concrete Structure Course - Type S-I, 1-1/4" Thick	46	TN		\$0.00		\$0.00
71	Friction Course Overlay - Type S-III, 3/4" Thick	74	TN		\$0.00		\$0.00
72	Milling	924	SY		\$0.00		\$0.00
75	Sodding	842	SY		\$0.00		\$0.00
79	Concrete Sidewalk Repair	101	SY		\$0.00		\$0.00
81	Removal and Replacement of Infiltration Trench	168	SY		\$0.00		\$0.00
82	Pigging and Pressure Testing	1	LS		\$0.00		\$0.00
85	Permit Allowance	1	LS		\$0.00		\$0.00
86	Removal and Replacement of Stormwater Inlet and Piping	1	LS		\$0.00		\$0.00
87	Lift Station Water Service Modification	1	LS		\$0.00		\$0.00
	<b>SUBTOTAL</b>				<b>\$0.00</b>		<b>\$0.00</b>
	<b>TOTAL (Sections I and II)</b>				<b>\$0.00</b>		<b>\$0.00</b>
88	Contingency	10%	LS		\$0.00		\$0.00
	<b>WATER CONSTRUCTION TOTAL</b>				<b>\$0.00</b>		<b>\$0.00</b>
	<b>GRAND TOTAL (SEWER AND WATER)</b>				<b>\$0.00</b>		<b>\$0.00</b>

Changed Bid A from 210 to 270  
 Changed Bid B from 180 to 240

From 90 to 160

From 10 to 11

BIDDER NAME \_\_\_\_\_

BIDDER SIGNATURE \_\_\_\_\_

## SECTION 01150 MEASUREMENT AND PAYMENT

### PART 1 GENERAL

#### 1.01 SCOPE

- A. The scope of this section of the Contract Documents is to further define the items included in each Bid Item in the Bid Form section of the Contract Documents. Payment will be made based on the specified items included in the description in this section for each bid item.
- B. All contract prices included in the Bid Form section will be full compensation for all shop drawings, working drawings, labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the Drawings and/or as specified in the Contract Documents to be performed under this Contract. Actual quantities of each item bid on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the Specifications. Payment for all items listed in the Bid Form will constitute full compensation for all work shown and/or specified to be performed under this Contract.

#### 1.02 ESTIMATED QUANTITIES

The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made. The County does not assume any responsibility for the final quantities, nor shall the Contractor claim misunderstanding because of such estimate of quantities. Final payment will be made only for satisfactorily completed quantity of each item.

#### 1.03 WORK OUTSIDE AUTHORIZED LIMITS

No payment will be made for work constructed outside the authorized limits of work.

#### 1.04 MEASUREMENT STANDARDS

Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

#### 1.05 AREA MEASUREMENTS

In the measurement of items to be paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

#### 1.06 LUMP SUM ITEMS

Where payment for items is shown to be paid for on a lump sum basis, no separate payment will be made for any item of work required to complete the lump sum items. Lump sum contracts shall be complete, tested and fully operable prior to request for final payment. Contractor may be required to provide a break-down of the lump sum totals.

#### 1.07 UNIT PRICE ITEM

Separate payment will be made for the items of work described herein and listed on the Bid

Form. Any related work not specifically listed, but required for satisfactory completion of the work shall be considered to be included in the scope of the appropriate listed work items.

No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the County until as-built (record) drawings have been submitted and approved by the County.

1. Shop Drawings, Working Drawings.
2. Clearing, grubbing and grading except as hereinafter specified.
3. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified.
4. Dewatering and disposal of surplus water.
5. Structural fill, backfill, and grading.
6. Replacement of unpaved roadways, and shrubbery plots.
7. Cleanup and miscellaneous work.
8. Foundation and borrow materials, except as hereinafter specified.
9. Testing and placing system in operation, except as hereinafter specified.
10. Any material and equipment required to be installed and utilized for the tests.
11. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown.
12. Maintaining the existing quality of service during construction.
13. Maintaining or detouring of traffic, except as hereinafter specified.
14. Appurtenant work as required for a complete and operable system.
15. Seeding and hydro mulching.

## **BID ITEM NO. 1 - MOBILIZATION**

Measurement and payment for this Bid Item shall include full compensation for the required 100 percent (100%) Performance Bond, 100 Percent (100%) Payment Bond, all required insurance for the project and the Contractor's mobilization and demobilization costs as shown in the Bid Form. Mobilization includes, but it not limited to: preparation and movement of personnel, equipment, supplies and incidentals such as safety and sanitary supplies/ facilities.

Payment for mobilization shall not exceed 10 percent (10%) of the total Contract cost unless the Contractor can prove to the County that his actual mobilization cost exceeds 10 percent (10%).

Partial payments for this Bid Item will be made in accordance with the following schedule:

Percent of Original Contract Amount:	Percent Allowable Payment of Mobilization/Demobilization Bid Item Price:
5	25
10	35
25	45
50	50
75	75
100	100

These payments will be subject to the standard retainage provided in the Contract. Payment of the retainage will be made after completion of the work and demobilization.

## **BID ITEM NO. 2 - MAINTENANCE OF TRAFFIC**

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for all maintenance of traffic including all local agencies and municipalities, and all equipment and manpower necessary to comply with the FDOT Design Standards 600 Series.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

## **BID ITEM NO. 3 - EROSION AND SEDIMENT CONTROL**

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for erosion and sediment control, including permitting if required, coordination with federal, state and local agencies and all equipment and manpower necessary to comply with necessary agencies.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

#### **BID ITEM NO. 4 - CLEARING AND GRUBBING**

Payment for all work included under this Bid Item shall be quantified by the Contractor per acre and paid for as a lump sum amount for all of the areas that will require clearing and grubbing for the pipe installation and in accordance with the plans and specifications. Clearing and grubbing shall include the removal and disposal of vegetation, trees, tree roots, rock, abandoned pipe and other features not part of the proposed improvements. The Contractor shall include the cost of any and all permitting required for the burning or disposal of removed trees and vegetation.

Unless otherwise indicated herein these documents or in the construction plans, clearing and grubbing includes a ten (10) foot strip along the pipeline route. The contractor will be responsible for making their own determination as to the acreage and quantity of clearing and grubbing.

#### **BID ITEM NO. 5 - RECORD DRAWINGS**

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for as-built record drawings or any other required certifications to put proposed project into service. All items are subject to approval by the Engineer and the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

#### **BID ITEM NO. 6 - PRECONSTRUCTION VIDEO**

Payment for all work included in this Bid Item will be made at the applicable Contract lump sum bid for the preconstruction video of the existing site conditions. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

#### **BID ITEM NO. 7 - BYPASS PUMPING**

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for any bypassing required to make connections to existing force mains, proposed force mains, existing manholes and/or lift stations, as well as manhole rehabilitation. Payment for all work included, but is not limited to, under this Bid Item shall also represent full compensation in accordance with the lump sum price bid for all labor, fittings, excavation, dewatering, bedding, backfill, compaction, testing, equipment, line stops, necessary septage trucks, and the bypassing of the existing lift stations and manholes in order to complete the proposed improvements.

Information on lift stations connected to the existing 16-inch force main are shown below for informational purpose only:

Lift Station #6 - RTU #59 - 5901 Marina Drive - 260 GPM  
Lift Station #7 - RTU #62 - 6900 Holmes Blvd - 600 GPM  
Lift Station #11 - RTU #64 - 8501 Gulf Drive - 900 GPM

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

#### **BID ITEM NO. 8 - PROJECT SIGNS**

Payment for all work included in this Bid Item will be made at the applicable Contract lump sum bid for the necessary signage required during construction. At least two (2) project signs should be used per project. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

#### **BID ITEM - PVC DR 18 PIPE**

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter PVC force main (AWWA C900-16 CL-235) pipe as shown on the Contract Drawings and listed on the Bid Form. Measurement and Payment shall be made for the actual length of the listed diameter pipe and installed and will represent full compensation for all labor, materials, tracer wire, excavation, including rock, dewatering, bedding, backfill, compaction, equipment, and utility locates required to complete these Bid Items. Included in this pay item is the removal/relocation of existing roadway signs required for the construction of the pipeline. No additional compensation shall be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement.

<b>BID ITEM</b>	<b>DESCRIPTION</b>	<b>UNITS</b>
9	16" PVC DR 18 Pipe (Open-Cut)	LF
10	8" PVC DR 18 Pipe (Open-Cut)	LF

#### **BID ITEM - DI CLASS 350 PIPE (OPEN CUT)**

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter Ductile Iron Pipe (AWWA A21.50 and A21.51, and ANSI C150 and C151) as shown on the Contract Drawings and listed in the Bid Form. The thickness of pipe shall be pressure Class 350. Measurement and Payment shall be made for the actual length of the listed diameter pipe installed and will represent full compensation for all labor, materials, tracer wire, excavation, including rock, dewatering, bedding, backfill, compaction, polyethylene wrapping, bacteriological sampling and disinfection, equipment, and utility locates required to complete these Bid Items, including removal of existing abandoned pipelines that may be in conflict.

Included in these bid item is the removal/relocation of existing roadway signs required for the construction of the pipeline. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM	DESCRIPTION	UNITS
11	10" DI Class 350 Pipe (Open Cut)	LF
12	6" DI Class 350 Pipe (Open Cut)	LF
13	4" DI Class 350 Pipe (Open Cut)	LF

**BID ITEM - PIPE REMOVAL**

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices removing the listed pipe as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the listed diameter pipe removed and disposed, and will represent full compensation for all labor, materials, excavation, including rock, dewatering, bedding, backfill, compaction, equipment, and utility locates required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM	DESCRIPTION	UNITS
14	Remove 10" Water Main	LF
15	Remove 6" Water Main	LF
16	Remove 4" Water Main	LF

**BID ITEM NO. 17 - 30" STEEL CASING WITH 16" CARRIER PIPE (JACK AND BORE)**

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the unit price bid per length foot of jack and boring including furnishing and installing 0.406-inch steel casing, 16-inch PVC DR 18 carrier pipe, pipe joint bell restraints, centered and restrained casing spacers, and end seals furnished, installed as shown in the Contract Drawings, and accepted by the County.

Pay Item also represent full compensation for all labor, materials, tracer wire, grout, excavation, including rock, dewatering, bedding, backfill, compaction, testing and equipment required to complete these Bid Items. No additional compensation shall be made for excavation below the bottom of the casing pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement. Payment shall represent full compensation for all labor, materials, equipment, restoration and incidental items necessary to complete.

**BID ITEM - DUCTILE IRON FITTINGS, WASTEWATER**

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid for furnishing and installing each listed ductile iron fitting (Holiday-Free Permax CTF or Tnemec Series 431 Perma-Shield PL epoxy lined) as shown on the Contract Drawings and listed on the Bid Form. Payment will be made for each fitting installed and will represent full compensation for all labor, material, excavation, blue fluoropolymer coated high-strength low alloy steel or uncoated 316 stainless steel hardware, mechanical joint restraint, including rock, bedding, backfill, compaction, polyethylene wrapping, testing and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
18	16" 45 Degree Bend (Wastewater)	EA
19	16" 22.5 Degree Bend (Wastewater)	EA
20	16" 11.25 Degree Bend (Wastewater)	EA
21	16" x 12" Reducer (Wastewater)	EA
22	16" x 8" Tee (Wastewater)	EA
23	8" 45 Degree Bend (Wastewater)	EA
24	8" 22.5 Degree Bend (Wastewater)	EA
25	8" x 4" Reducer (Wastewater)	EA

#### BID ITEM - DUCTILE IRON FITTINGS, WATER

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid for furnishing and installing each ductile iron fitting (double standard thickness cement-lined) as shown on the Contract Drawings and listed on the Bid Form. Payment will be made for each fitting installed and will represent full compensation for all labor, material, excavation, blue fluoropolymer coated high-strength low alloy steel or uncoated 316 stainless steel hardware, mechanical joint restraint, including rock, bedding, backfill, compaction, polyethylene wrapping, testing and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
26	6" 45 Degree Bend (Water)	EA
27	6" 22.5 Degree Bend (Water)	EA
28	6" Plug with 2" Threaded Port (Water)	EA
29	6" x 4" Reducer (Water)	EA
30	4" Plug with 2"	EA

#### BID ITEM - TAPPING SLEEVES/VALVES

Payment for all work included in these Bid Items shall be at the applicable Contract unit price bid per each tapping sleeve and tapping valve for furnishing and installing the listed diameter tapping sleeve and tapping valve, box, cover and concrete pad as shown on the Contract Drawings and listed on the Bid Form. Prior to the tapping operation, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. The tapping operation itself up to 12-inches in diameter will be performed by the County. All tapping operations larger than 12 inches in diameter shall be performed by the Contractor with the County's Representative present. All necessary ductile iron sleeves (double standard thickness cement lined) required to construct a fully operable water main tie in shall be included in this pay item, unless called out in the Contract Drawings. Where a tapping sleeve and valve is removed and replaced, the proposed tapping sleeve shall be aligned so that the tapping sleeve outlet is centered where the existing tap on the main is located. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, polyethylene wrapping all valves, pressure and leak testing, disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
31	16" x 6" Tapping Sleeve and Valve	EA
32	16" x 4" Tapping Sleeve and Valve	EA
33	12" x 6" Tapping Sleeve and Valve	EA

### BID ITEM - TAPPING SLEEVES WITH 2" THREADED PLUG

Payment for all work included in these Bid Items shall be at the applicable Contract unit price bid per each listed diameter tapping sleeve and threaded plug furnished and installed as shown on the Contract Drawings and listed on the Bid Form. Prior to installation, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. Where a tapping sleeve and valve is removed and replaced, the proposed tapping sleeve shall be aligned so that the tapping sleeve outlet is centered where the existing tap on the main is located. The proposed tapping sleeve and plug shall create a leak free plug on the existing water main tap. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, polyethylene wrapping all sleeves and valves, pressure and leak testing, disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
34	16" x 2" Tapping Sleeve with 2" Threaded Plug	EA

### BID ITEM - REMOVE TAPPING SLEEVES/VALVES

Payment for all work included in these Bid Items shall be at the applicable Contract unit price bid per each listed diameter tapping sleeve and tapping valve, box, cover and concrete pad removed as shown on the Contract Drawings and listed on the Bid Form. Prior to the removal operation, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction testing, disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
35	16" x 6" Tapping Sleeve and Valve	EA
36	16" x 4" Tapping Sleeve and Valve	EA
37	16" x 2" Tapping Sleeve and Valve	EA

### BID ITEM - GATE VALVES

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each valve, box, cover and concrete pad installed as shown on the Contract Drawings and listed on the Bid Form to isolate that segment of water main. Prior to the installation operation, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. All removal of pipe between the water main branch fitting to the proposed gate valve (spools pieces up to 5 linear feet) shall be included in this pay item and replaced with ductile iron class 350 pipe of the same size. Any necessary ductile iron sleeve (double standard thickness cement-lined) shall be included in this bid item, unless called out in the Contract Drawings, to perform the work. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, polyethylene wrapping all valves, pipe, fittings, pressure and leak testing, and disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
38	10" Gate Valve	EA
39	6" Gate Valve	EA
40	4" Gate Valve	EA

### BID ITEM - REMOVE GATE VALVES

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each valve, stem, valve box and lid, and concrete pad removed as shown on the Contract Drawings and listed on the Bid Form to isolate that segment of water main. Prior to the removal operation, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, temporary plugs/caps, and disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
41	Remove 10" Gate Valve	EA
42	Remove 6" Gate Valve	EA
43	Remove 4" Gate Valve	EA

### BID ITEM - PLUG VALVES

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per each valve for furnishing and installing the listed diameter valve, box, cover, and concrete pad as shown on the Contract Drawings and listed on the Bid Form. All Plug Valves shall be "true" full 100% port eccentric plug valves with Holiday-free interior lining. Any necessary ductile iron sleeve (Holiday-Free Permax CTF or Tnemec Series 431 Perma-Shield PL epoxy lined) shall be included in this bid item. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, testing and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
44	16" Plug Valves	EA
45	8" Plug Valves	EA

### BID ITEM - REMOVE AND REPLACE SERVICE SADDLES

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each service saddle and corporation stop removed and for furnishing and installing the listed diameter saddle and threaded plug as shown on the Contract Drawings and listed on the Bid Form. Prior to the replacement operation, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. The proposed service saddle shall be aligned so that the service saddle outlet is centered where the existing tap to the main is. The new service saddle and threaded plug shall create a leak free plug on the existing water main tap. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, polyethylene wrapping all saddles and plugs, pressure and leak testing, and disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
46	Remove and Replace 12" x 2" Service Saddle	EA
47	Remove and Replace 16" x 2" Service Saddle	EA

## BID ITEM - AIR RELEASE VALVES

Payment for all work included in this Bid Item shall be at the applicable Contract unit price bid per each air release valve for furnishing and installing the listed diameter air release valve, 316 stainless steel backflush attachments, piping, fittings, box, cover, enclosure, concrete bollards, and concrete pad as shown on the details in the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction testing, disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
48	2" ARV Type 2 (Above Ground)	EA

## BID ITEM - BELL JOINT PIPE RESTRAINTS

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per each restraint required to restrain the piping required by the Contract Drawings. Measurement will be based on each complete restraint furnished and installed except where specifically included in another pay item. Payment shall represent full compensation for all labor, material, equipment, excavation, including rock, bedding, backfill, compaction, and testing required to complete this Bid Item. This Bid Item includes the installation of blue fluoropolymer coated high-strength low alloy steel or uncoated 316 stainless steel hardware, restraints used in restraining PVC and ductile iron pipe of the specified type acceptably furnished and installed as shown on the drawings or where directed by the Project Representative and in accordance with the pipe and restraint manufacturer's requirements. The work shall include, but is not limited to, all bolts, nuts, washers, gaskets, and all other related and necessary materials, polyethylene wrapping restraints and hardware, work and equipment required or associated with this item.

BID ITEM	DESCRIPTION	UNITS
49	16" Bell Joint Pipe Restraints	EA
50	10" Bell Joint Pipe Restraints	EA
51	8" Bell Joint Pipe Restraints	EA
52	6" Bell Joint Pipe Restraints	EA
53	4" Bell Joint Pipe Restraints	EA

## BID ITEM - FORCE MAIN CONNECTIONS

Payment for all work included, but is not limited to, under these Bid Items shall be made at the applicable Contract unit price bid per each force main connection. Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with unit price bid for all labor, additional necessary fittings not shown on the Contract Drawings (Holiday-Free Permax CTF or Tnemec Series 431 Perma-Shield PL epoxy lined), polyethylene wrapping fittings and restraints, grout, excavation, dewatering, bedding, backfill, compaction, testing, equipment, and thrust blocks for force main connections. Contractor shall make provisions to have an adequate number of septage trucks available to make the necessary force main connections.

Coordinate with Nick Wagner (Lift Station Superintendent) with Manatee County for shutdown of Lift Stations. At least four days' notice needs to be provided to Nick to coordinate shutdown.

Phone Number: 941-792-8811 EXT 5377. Connection must also be made outside of peak hours between 9PM and 5AM.

BID ITEM	DESCRIPTION	UNITS
54	Connection to Existing 12" Force Main	EA
55	Connection to Existing 4" Force Main	EA

**BID ITEM - CUT AND CONNECT TO EXISTING WATER MAIN**

Payment for all work included, but is not limited to, under these Bid Items shall represent full compensation for each proposed connections to water mains. Prior to the connections, the Contractor will contact the County as to the date and time of the proposed work to coordinate water main isolations. Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation for all labor, additional fittings not shown on the Contract Drawings (double cement lined), thrust blocks, polyethylene wrapping fittings and restraints, excavation, dewatering, bedding, backfill, compaction, bacteriological sampling and disinfection, and equipment necessary to complete the work.

BID ITEM	DESCRIPTION	UNITS
56	Cut and Connect to Existing 10" Water Main	EA
57	Cut and Connect to Existing 6" Water Main	EA
58	Cut and Connect to Existing 4" Water Main	EA
59	Cut and Connect to Existing 2" Water Main	EA

**BID ITEM NO. 60 - REMOVE AND REPLACE FIRE HYDRANT ASSEMBLY**

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each hydrant assembly removed and replaced, including 6" hydrant lead, hydrant elbow, ductile iron fitting and gate valve, or tapping sleeve and valve, box cover, concrete pads, restraining rods and/or thrust blocks, with a new fire hydrant assembly as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, equipment, excavation, including rock, bedding, backfill, compaction, polyethylene wrapping all buried pipe, fittings, and valves, testing and disinfection required to complete this Bid Item.

**BID ITEM NO. 61 - CONNECTION TO MANHOLE**

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per each manhole connection. Payment shall represent full compensation for all labor, materials, and equipment. This bid item includes, but is not limited to, connecting the new force main to the terminal manhole, rebuilding the existing bench, coring as necessary, additional ductile iron fittings not shown in the Contract Drawings, all necessary grout required to seal the manhole connection, removing and replacing the jack-in manhole boot per ASTM C-923, and removing the existing force main from the manhole.

**BID ITEM NO. 62 - MANHOLE REHABILITATION**

Payment for work under this Bid Item shall be made at the Contract unit price bid for each manhole rehabilitation including removing the existing liner if applicable, pressure washing, injection grouting to stop any infiltration, concrete restoration to ensure a smooth surface for coating, applying a primer and protective liner, repairing dilapidated bench work and inverts, installing a rainwater dish, and replacing manhole frame and cover with County approved

products as shown on the Contract Drawings. The proposed manhole frame and cover shall be made of heavy duty composite materials with min. three (3) 316 stainless steel bolts and associated hardware. Payment shall represent full compensation for all labor, materials, equipment and incidental items necessary to complete each manhole rehabilitation, ready for approval and service by the County.

This pay item shall also include any restoration associated with the manhole rehabilitation, including but not limited to sidewalk, grass, and miscellaneous concrete, in accordance with the Contract Documents shall be included. No additional compensation will be made by the County for any damage to manhole structures due to liner installation. It shall be the responsibility of the Contractor to repair the manhole structure. Repair work shall ensure manhole structure is structurally rigid and leakproof. Sealants used shall be flexible and withstand horizontal and vertical movement due to traffic loading and shall be approved by the County.

**BID ITEM - WATER SERVICES**

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for each service type for furnishing and installing the listed blue-coded single, double, and triple water service lines, both short and long side, as listed on the Bid Form. Included in these bid items is the removal, relocation, and reconnection of water meter and meter boxes that do not meet the County standards (refer to County details). Included in this bid item is the installation of a new backflow prevention assembly downstream of the meter installed per the County details. If the relocated meter was connected to an existing backflow preventer assembly, the County inspector will determine if the assembly is acceptable to be reused. The meter and backflow prevention assembly proposed locations shall be coordinated with the County Inspector and property owner in order to meet County standards. All pipe, fittings, connections, concrete pads, and landscaping restoration required to perform the complete removal, relocation, new installations, and reconnections of the water meter, meter box, and backflow preventer assembly to the private property service line are included in this pay item.

Water service casing is required on all roadway crossings and shall extend outside pavement edge per County standard details. Contractor shall replace all water services from water main to the meter, including service saddle, corporation stop, piping, and ancillary fittings. The new service saddle port shall be aligned over the already existing tap of the water main. Included in these bid items are reconnections and new installations of the meter boxes, backflow preventer assemblies, and private side plumbing. Contractor shall employ a licensed plumber for any work within private property and shall pay for any applicable permit fees to complete the work. Payment shall represent full compensation for all labor, material, excavation, including rock, bedding, backfill, compaction, testing and disinfection and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
63	Single Short Water Service	EA
64	Double Short Water Service	EA
65	Single Long Water Service with Casing	EA
66	Double Long Water Service with Casing	EA
67	Triple Short Water Service	EA

## BID ITEM - PAVEMENT REPAIR AND ROAD RESTORATION

Payment for all work included in these Bid Items will be made at the applicable Contract unit price listed below for selected common fill, crushed concrete, milling and asphaltic concrete, for the roadway restoration related to the subsurface utility construction as listed on the Bid Form. Payment shall represent full compensation for all labor, materials and equipment for cutting the edges of existing roadway, compacting subgrade, furnishing and installing the crushed concrete, asphaltic concrete and all incidentals necessary to complete the roadway restoration as shown on the Contract Drawings and included in the Specifications, all ready for approval and acceptance by the County. Contractor will only be paid for the base and asphaltic concrete thicknesses specified in these bid items. No additional payment will be made for restorations beyond the specified thicknesses.

BID ITEM	DESCRIPTION	UNITS
68	Selected Common Fill	CY
69	Crushed Concrete Base, 8" Thick	SY
70	Asphaltic Concrete Structure Course - Type S-I, 1-1/4" Thick	TN
71	Friction Course Overlay - Type S-III, 3/4" Thick	TN
72	Milling	SY

## BID ITEM - REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL

Payment for all work included in these Bid Items will be made at the applicable Contract unit price listed below for removal and replacement of unsuitable material encountered during excavation for pipeline installation; including but not limited to muck, debris, stone, concrete, and shell. Payment shall represent full compensation for all labor, materials, equipment, and dewatering for properly removing and disposing of all unsuitable material, including the import of suitable backfill material. Contractor shall notify Owner/Engineer when unsuitable materials are encountered. Contractor shall provide backup documentation (load tickets) to County Inspector at time of export or import or material.

BID ITEM	DESCRIPTION	UNITS
73	Removal of Unsuitable Material	CY
74	Import of Suitable Backfill	SY

## BID ITEM NO. 75 - SODDING

Payment for all work included in this Bid Item will be made at the applicable Contract unit price bid per square yard for furnishing and installing sodding to restore areas to preconstruction conditions, as listed on the Bid Form. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

## BID ITEM - DRIVEWAY RESTORATION

Payment for all work included in this Bid Item will be made at the applicable Contract unit price bid per square yard of driveway restoration as listed on the Bid Form. Measurement of driveway restoration will be per the actual number of square yards of brick, concrete, or shell furnished and installed. Payment shall represent full compensation for all labor, materials and equipment for cutting the edges of existing driveways, compacting subgrade, furnishing and installing the brick, concrete, or shell driveway, including all incidentals necessary to complete the driveway restoration as shown on the Contract Drawings and included in the Specifications, all ready for approval and acceptance by the County.

BID ITEM	DESCRIPTION	UNITS
76	Brick Driveway Repair	SY
77	Concrete Driveway Repair	SY
78	Shell Driveway Repair	SY

**BID ITEM NO. 79 - CONCRETE SIDEWALK REPAIR**

Payment for all work included under this Bid Item will be made at the Contract unit price bid per square yard of concrete sidewalk installed as shown in the Contract Drawings and as listed on the Bid Form. Measurement will be based on the actual number of square yards of concrete sidewalk installed, tested, completed and approved. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item. Sidewalks shall meet the requirements of the Manatee County Transportation Design Standards.

**BID ITEM NO. 80 - MAILBOX REMOVAL AND REPLACEMENT**

Payment for all work included in this Bid Item shall be per each mailbox removed and replaced as shown in the construction plans. Payment shall represent full compensation for all labor, excavation, compaction, material, preparation, installation and equipment required to complete this Bid Item.

**BID ITEM NO. 81 - REMOVAL AND REPLACEMENT OF INFILTRATION TRENCH**

Payment for all work included in this Bid Item will be made at the applicable Contract unit price bid per square yard for the necessary removal and replacement of infiltration trench per City of Bradenton Beach detail. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement will be based on the actual number of square yards of infiltration trench installed, tested, completed and approved.

**BID ITEM NO. 82 - PIGGING AND PRESSURE TESTING**

Payment for all work included in this Bid Item will be made at the applicable Contract lump sum bid for test pigging and pressure testing the proposed force mains and water mains. Payment shall represent full compensation for all labor, materials, fittings, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

**BID ITEM NO. 83 - GROUT FILL & ABANDON EXISTING PIPELINES**

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the unit price bid per cubic yard of grout fill that is required to abandon all of the existing pipelines to be deactivated; wasted/spilled grout will not be paid for, only the required amount of grout in the abandoned pipe. Payment will include all equipment, labor, fittings including plugs and caps whether shown on the plans or not, decommissioning valves, removal of valve boxes, restraints, concrete blocks, temporary

connections, flushing of existing pipelines, and appurtenances required to abandon the existing mains in accordance with County standards.

The existing pipelines that are being grouted and abandoned must be cut and capped at a maximum distance of 2,000 linear foot segments. The caps must have offset grout port on the top side of the cap. The County preferred grout mix in the contract specifications must be used.

#### **BID ITEM ON. 84 -TREE REMOVAL AND REPLACEMENT**

Payment for all work included in these Bid Items will be made at the applicable Contract unit for each tree removed and replaced for construction activities. Contractor shall determine size and type of tree to be replaced at the time of construction. Tree removal shall be coordinated with home owners prior to removal and replacement. Payment shall represent full compensation for all coordination between the County's representatives, home owners, and local agencies, including all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

#### **BID ITEM NO. 85 - PERMIT ALLOWANCE**

The County is allowing for a City of Holmes Beach Right-of-Way permitting allowance of \$5,000. Contractor shall include this allowance in his bid. Payment will only be made for the actual Permit Fee. Contractor shall provide justification for payment at time of billing.

#### **BID ITEM NO. 86 - REMOVAL AND REPLACEMENT OF STORMWATER INLET AND PIPING**

Payment for all work included in this Bid Item will be made at the applicable Contract lump sum bid for the necessary removal and replacement of all stormwater inlets and piping required for the construction or removal of pipelines, whether shown on the plans or not. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

#### **BID ITEM NO. 87 - LIFT STATION WATER SERVICE MODIFICATION**

Payment for all work included in this Bid Item will be made at the applicable Contract lump sum bid for upgrading the existing water service to a 2-inch water service at Lift Station #59. Included in this bid item is all work required for removing the existing 6" service saddle and replacing with a new saddle and threaded plug, furnishing a new 6"X2" service saddle, 2" polyethylene tubing, removing and replacing the existing backflow prevention assembly and concrete pad with a 2" backflow prevention & meter assembly, and furnishing and installing the hose bib & camlock connection assembly, as shown on the plans. Payment shall represent full compensation for all labor, materials, fittings, appurtenances, piping, concrete, necessary equipment, restoration, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract

Documents.

**BID ITEM NO. 88 - CONTRACT CONTINGENCY**

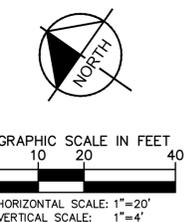
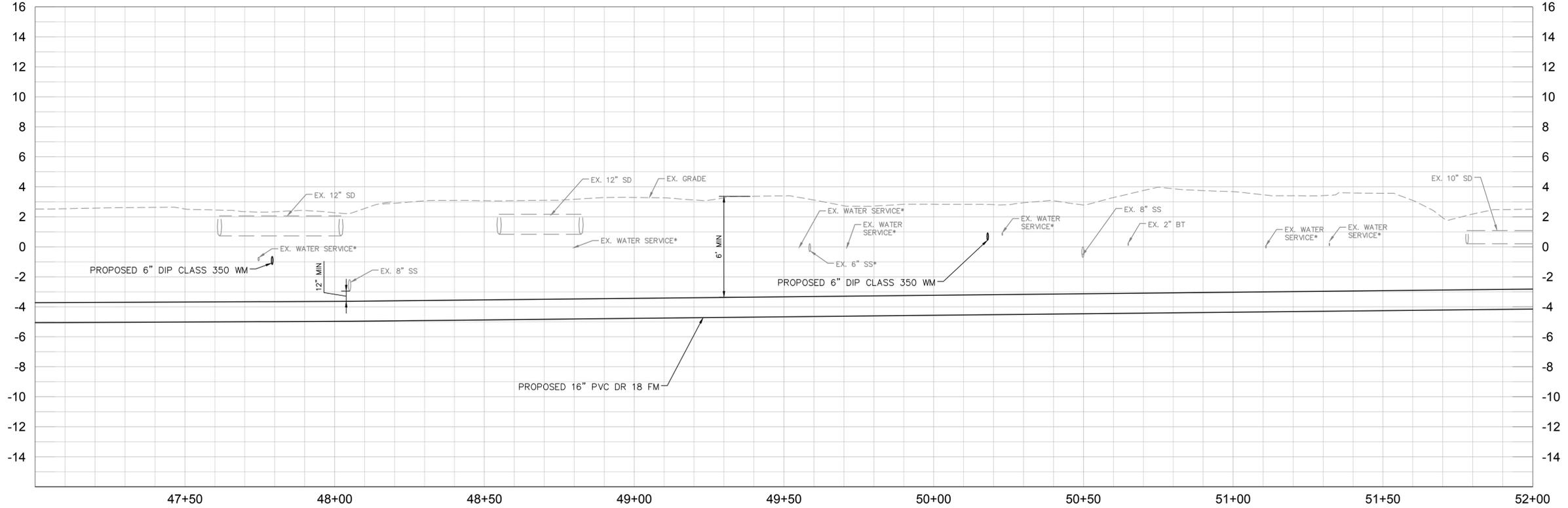
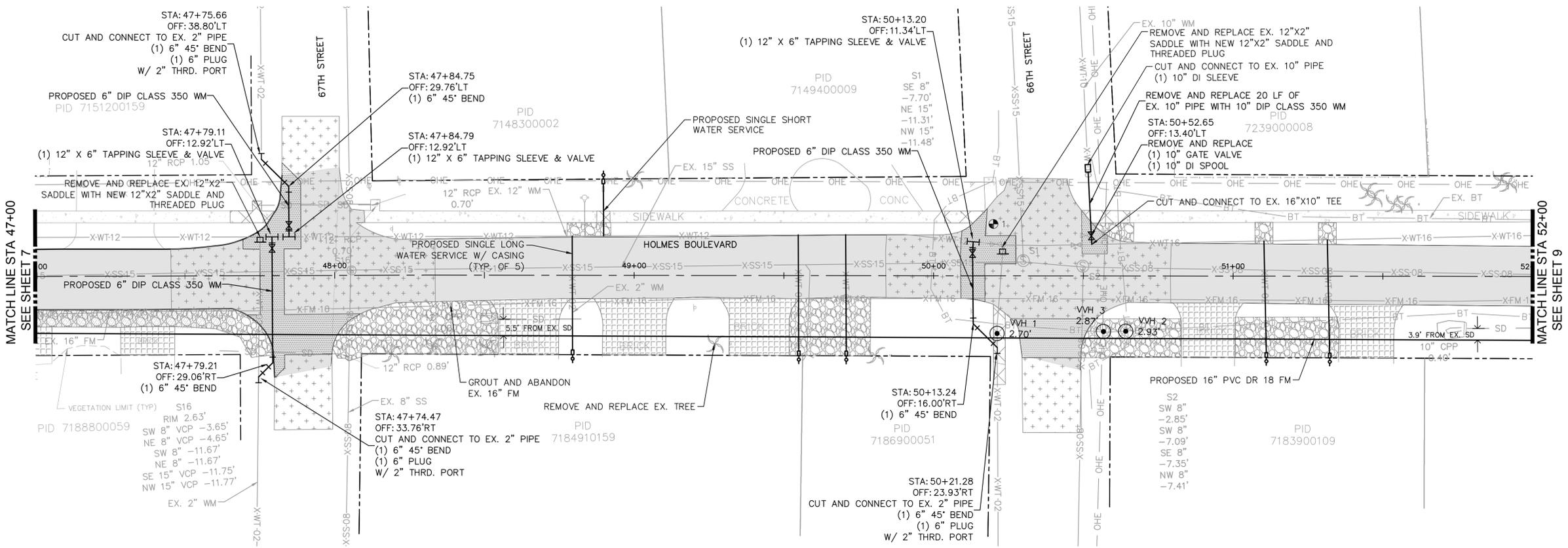
Payment for all work under this Bid Item shall be made only at the County's discretion. This Bid Item shall not exceed 10% of the Bidders Total Base Bid. The Bidder shall calculate and enter a dollar amount for this Bid Item.

**PART 2 PRODUCTS (NOT USED)**

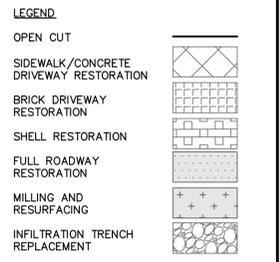
**PART 3 EXECUTION (NOT USED)**

**END OF SECTION**

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- NOTES:
- CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON SHEET 21
  - CONTRACTOR SHALL INSTALL THRUST BLOCK ON ALL CONNECTIONS TO EXISTING PIPE PER DETAIL UG-7 ON SHEET 20



\*NOTES:  
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (\*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED FORCE MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

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**GROUNDWATER / DEWATERING NOTE:**  
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



ADDENDUM 1	4/5/2021	MAS
No.	REVISIONS	DATE BY

**Kimley»Horn**

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 PHONE: 727-547-3999  
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT  
148400036

DATE  
4/5/2021

SCALE AS SHOWN

DESIGNED BY MAS

DRAWN BY JWM

CHECKED BY WEW

**Manatee County**  
 FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER  
87501

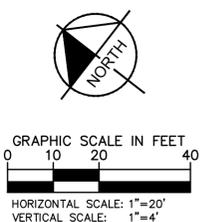
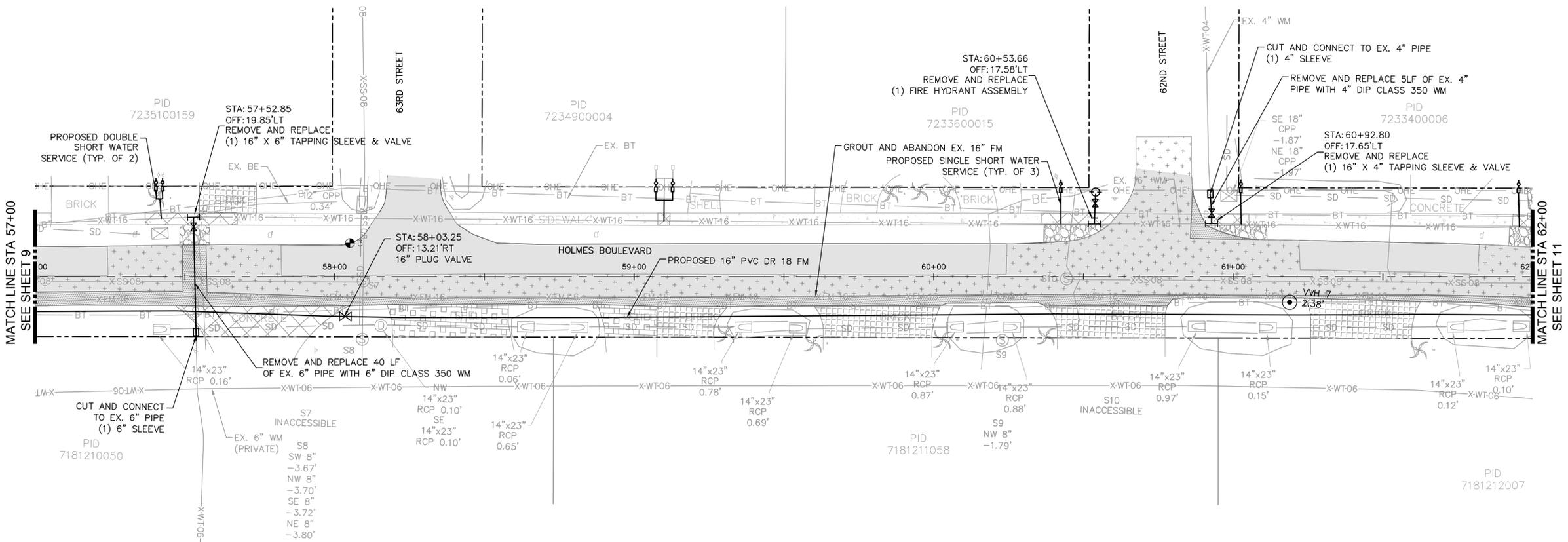
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**STA 47+00 - 52+00**

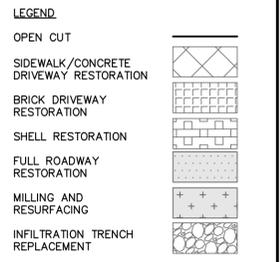
SHEET NUMBER



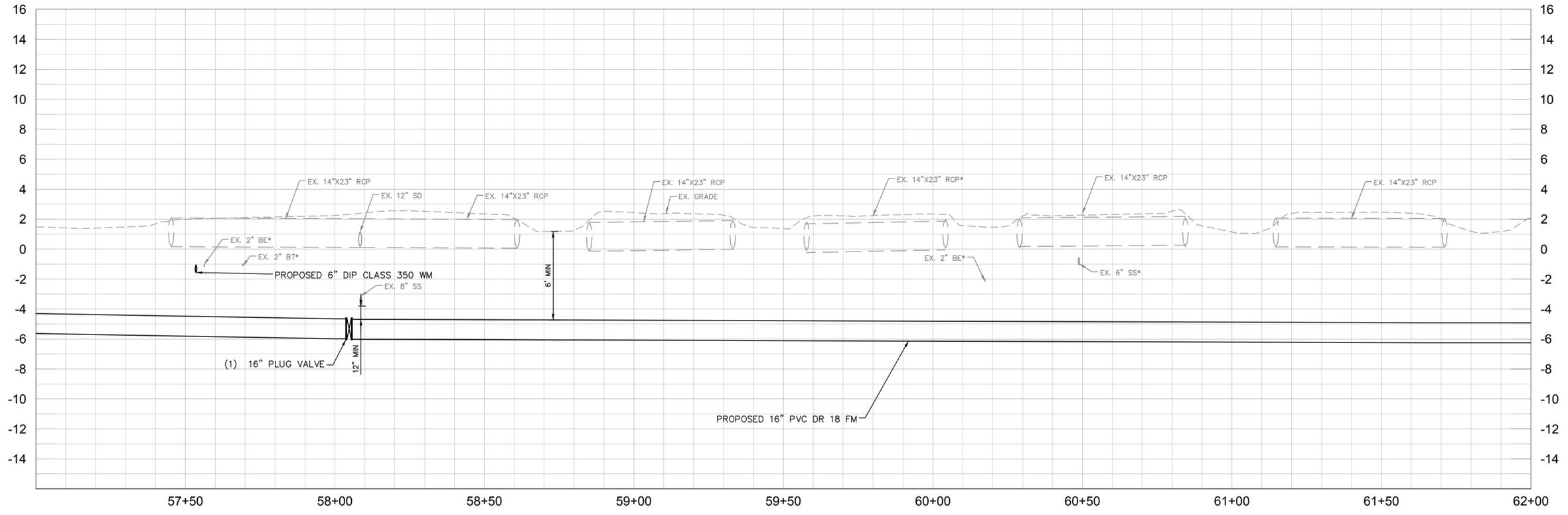
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KHA PROJECT	148400036
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SCALE	AS SHOWN
DESIGNED BY	MAS
DRAWN BY	JVM
CHECKED BY	WEW

**Manatee County**  
 FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

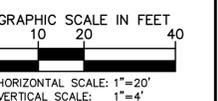
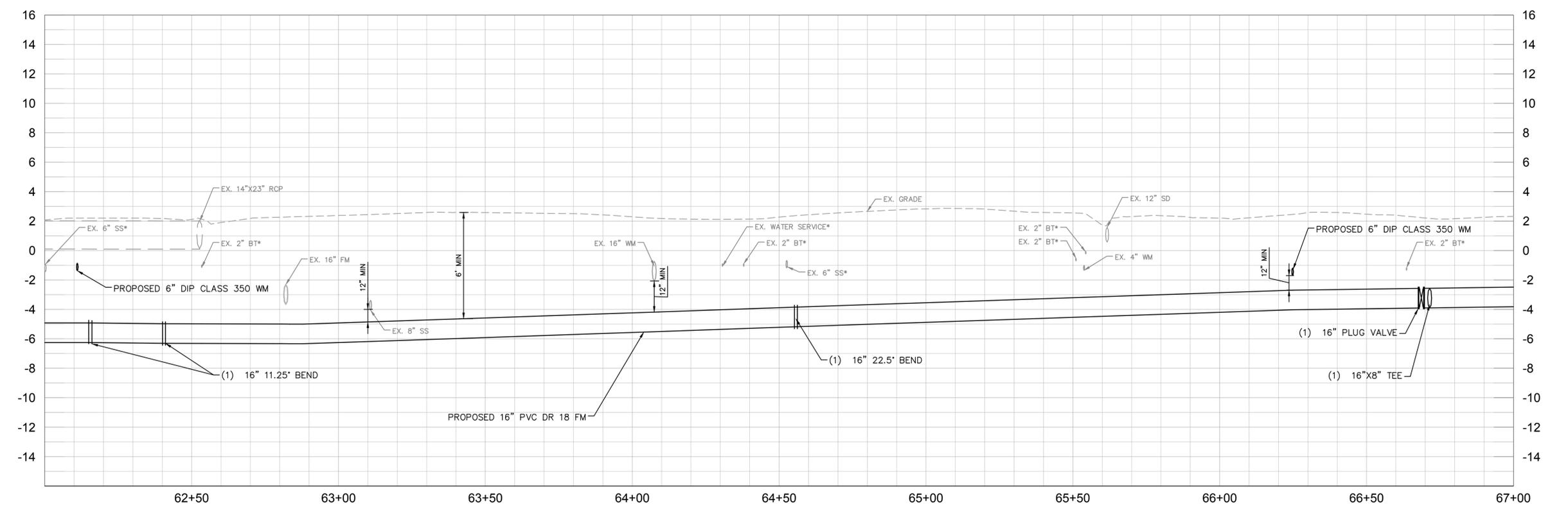
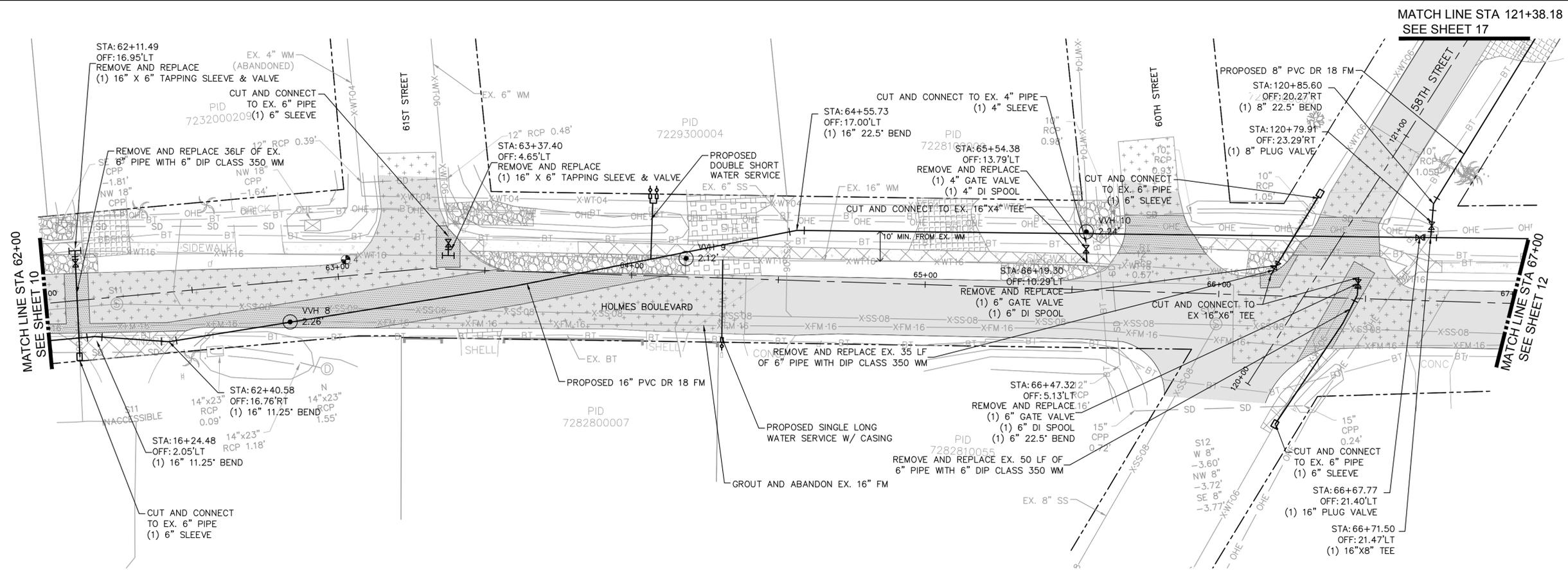
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**PLAN & PROFILE**  
**STA 57+00 - 62+00**

SHEET NUMBER

**10**

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- LEGEND
- OPEN CUT
  - SIDEWALK/CONCRETE DRIVEWAY RESTORATION
  - BRICK DRIVEWAY RESTORATION
  - SHELL RESTORATION
  - FULL ROADWAY RESTORATION
  - MILLING AND RESURFACING
  - INFILTRATION TRENCH REPLACEMENT

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**Manatee County**  
FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

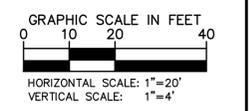
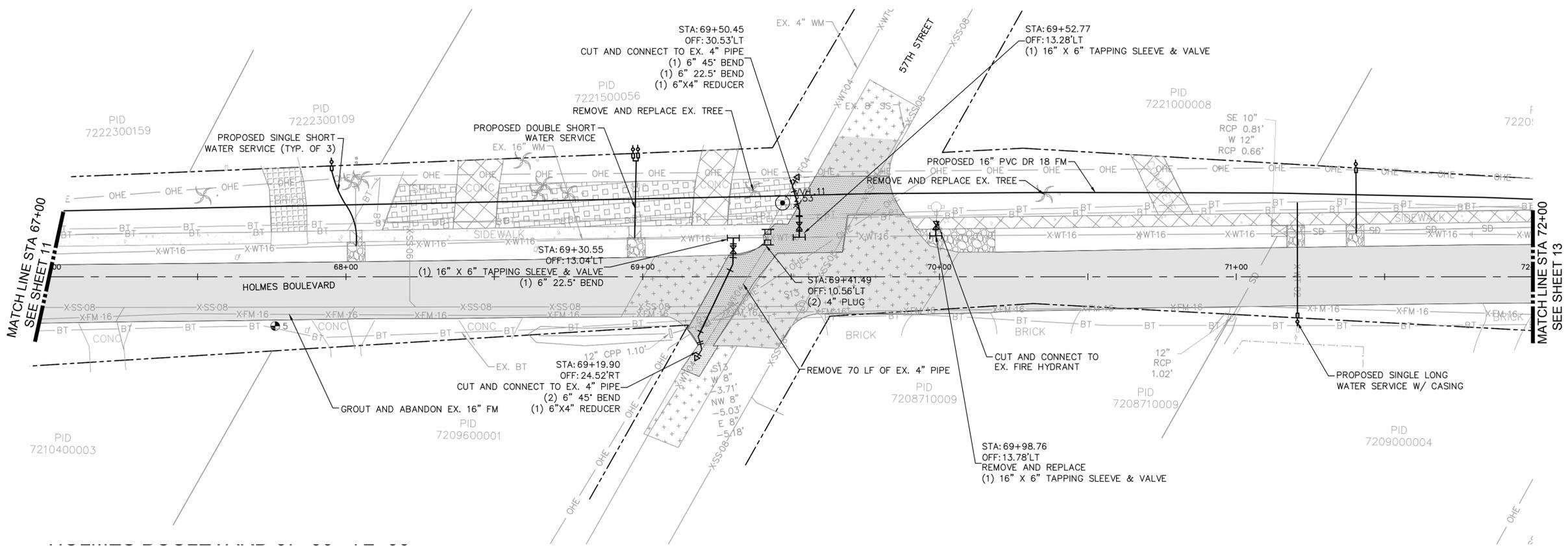
MANATEE COUNTY

LICENSED PROFESSIONAL  
MICHAEL A. SEMAGO, P.E.  
FL LICENSE NUMBER  
87501

**PLAN & PROFILE**  
**STA 62+00 - 67+00**

SHEET NUMBER  
**11**

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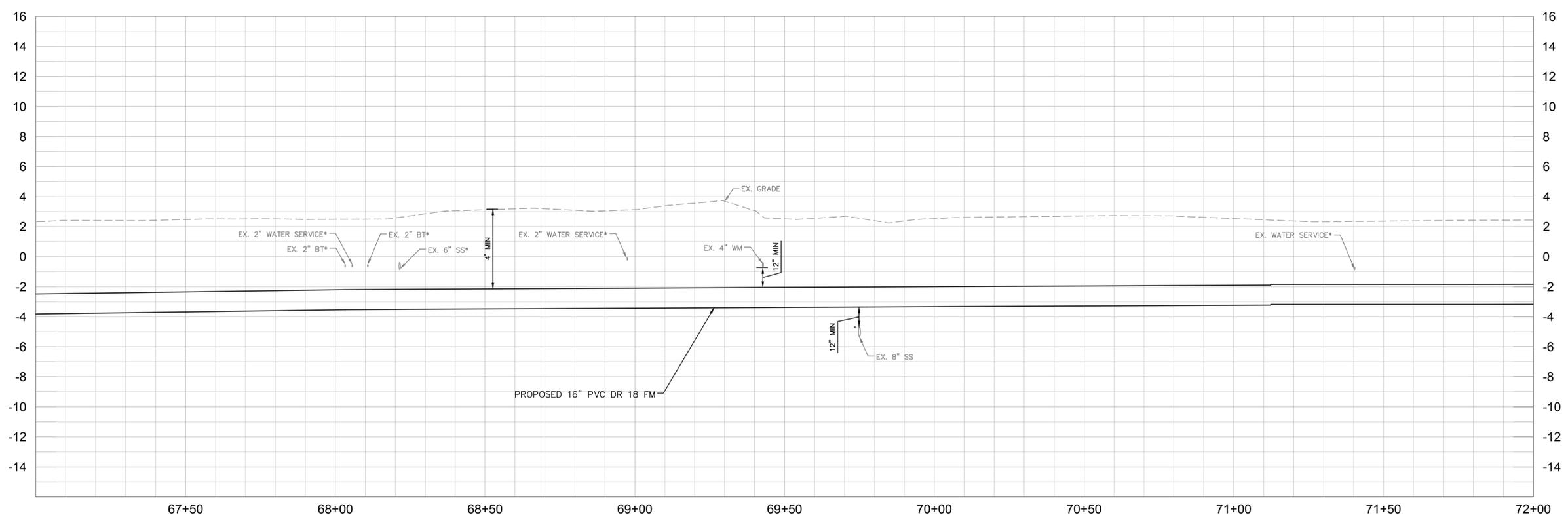


- NOTES:
- CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON SHEET 21
  - CONTRACTOR SHALL INSTALL THRUST BLOCK ON ALL CONNECTIONS TO EXISTING PIPE PER DETAIL UG-7 ON SHEET 20

LEGEND

OPEN CUT	
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
BRICK DRIVEWAY RESTORATION	
SHELL RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
INFILTRATION TRENCH REPLACEMENT	

\*NOTES:  
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**GROUNDWATER / DEWATERING NOTE:**  
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



ADDENDUM 1	4/5/2021	MAS
No.	REVISIONS	DATE BY

**Kimley & Horn**

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 100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701  
 PHONE: 727-547-3999  
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT  
148400036

DATE  
4/6/2021

SCALE AS SHOWN

DESIGNED BY MAS

DRAWN BY JVM

CHECKED BY WEW

**Manatee County**  
FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

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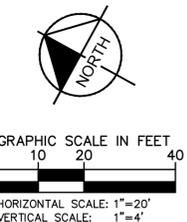
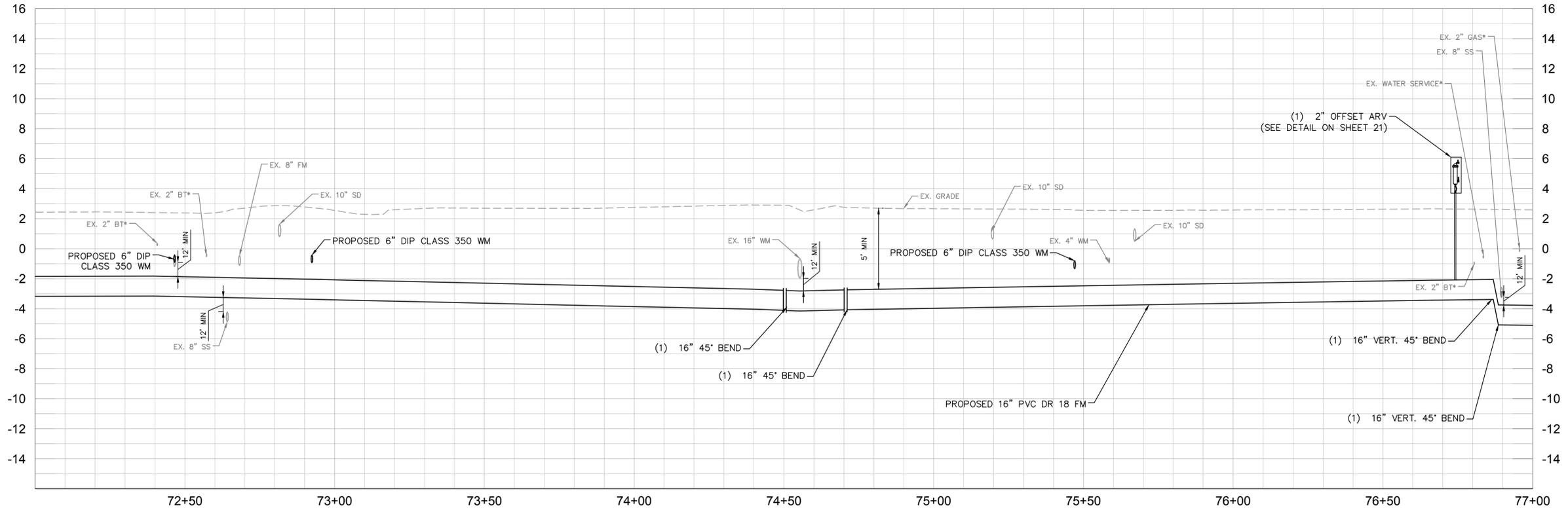
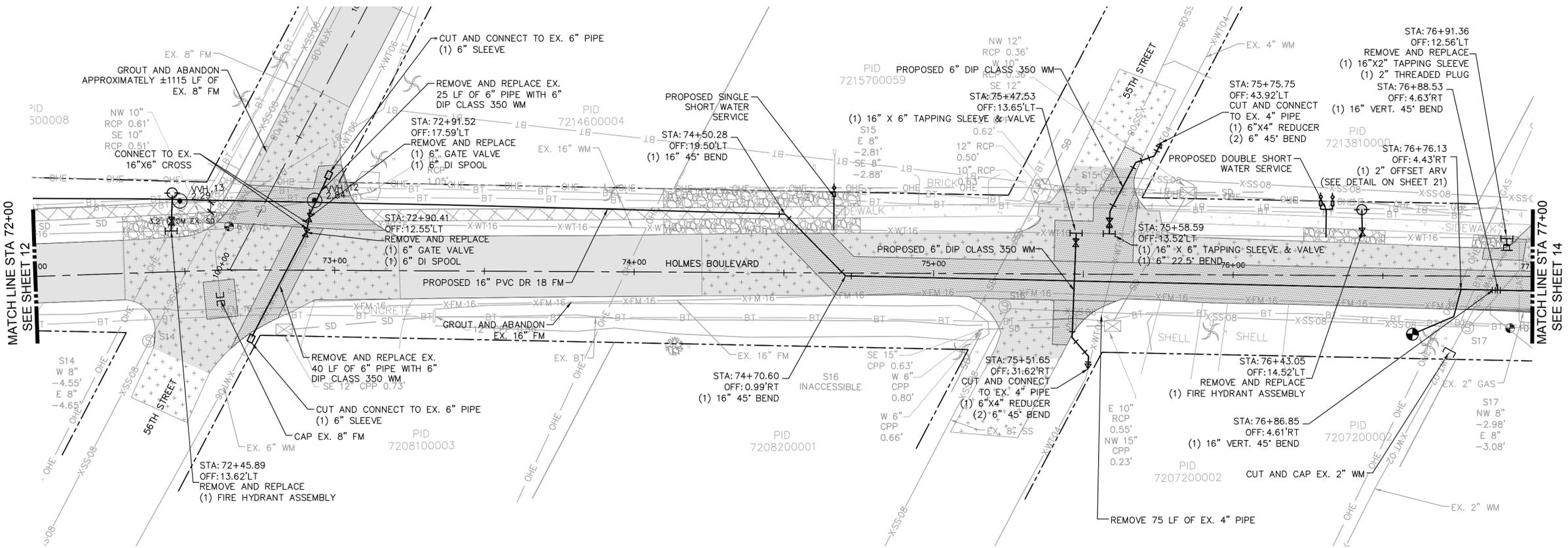
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**PLAN & PROFILE**  
**STA 67+00 72+00**

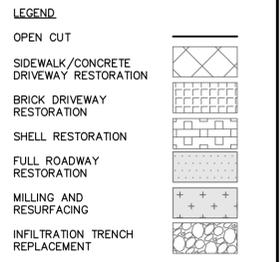
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**12**

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KHA PROJECT  
148400036  
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**Manatee County**  
FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

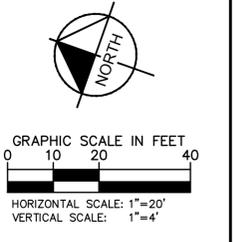
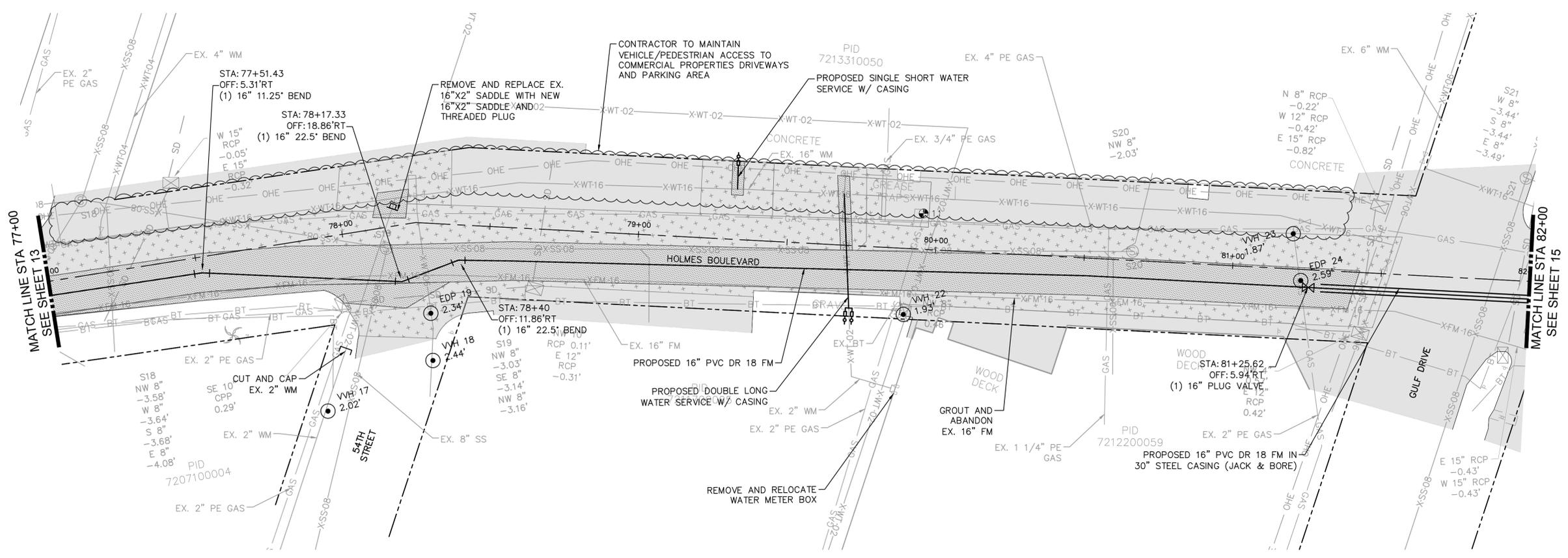
MANATEE COUNTY

LICENSED PROFESSIONAL  
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FL LICENSE NUMBER  
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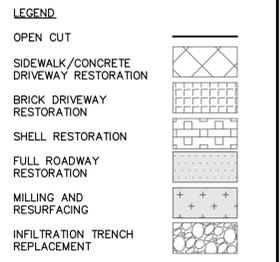
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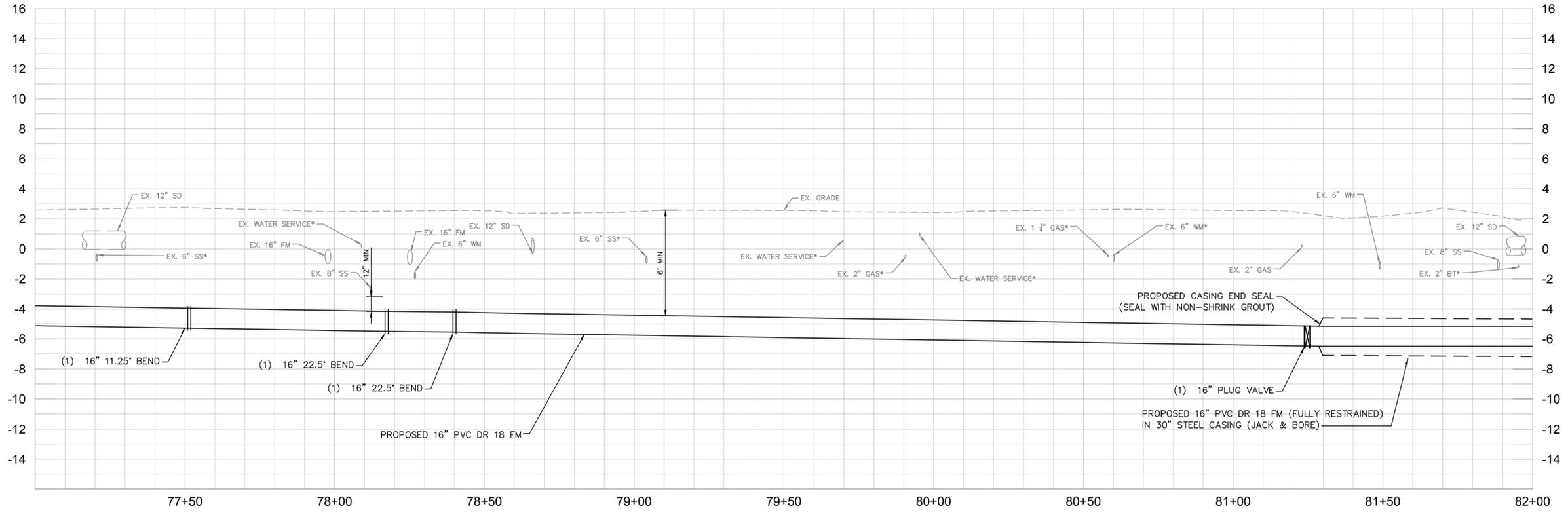


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DESIGNED BY MAS

DRAWN BY JVM

CHECKED BY WEW

**Manatee County**  
 FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER  
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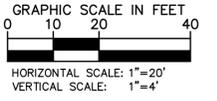
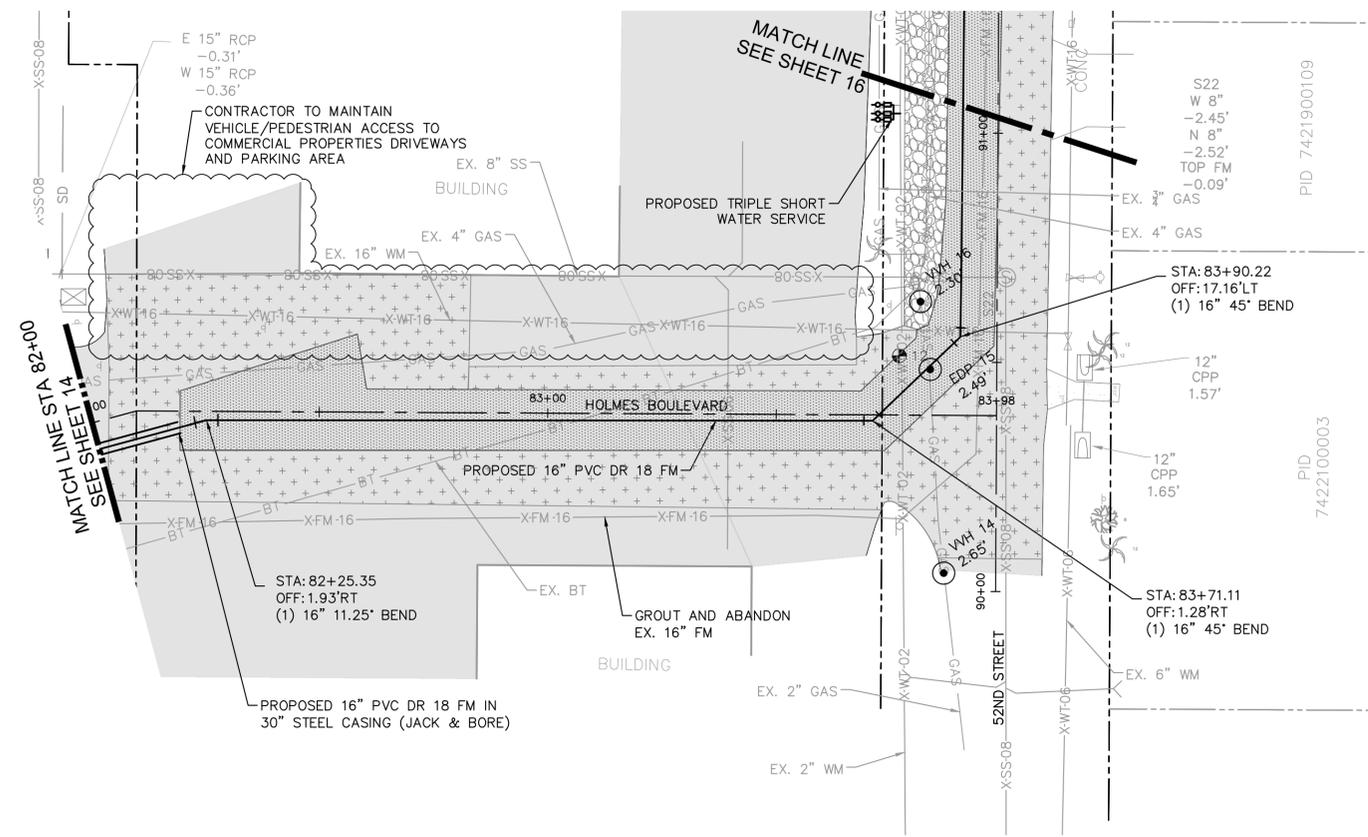
FL DATE:

**PLAN & PROFILE**  
**STA 77+00 - 82+00**

SHEET NUMBER

**14**

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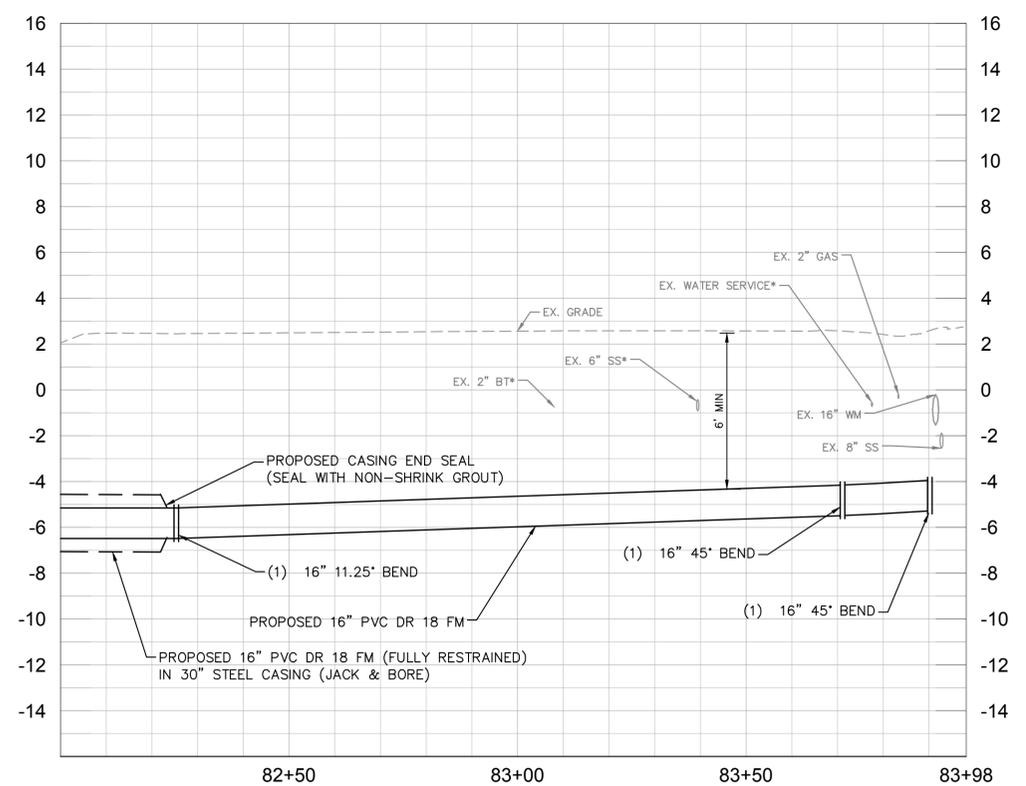
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LEGEND

OPEN CUT	
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
BRICK DRIVEWAY RESTORATION	
SHELL RESTORATION	
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MILLING AND RESURFACING	
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200 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701  
PHONE: 727-547-3999  
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KHA PROJECT	148400036
DATE	4/5/2021
SCALE	AS SHOWN
DESIGNED BY	MAS
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**Manatee County**  
FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

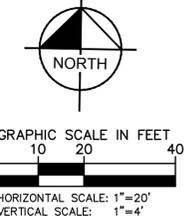
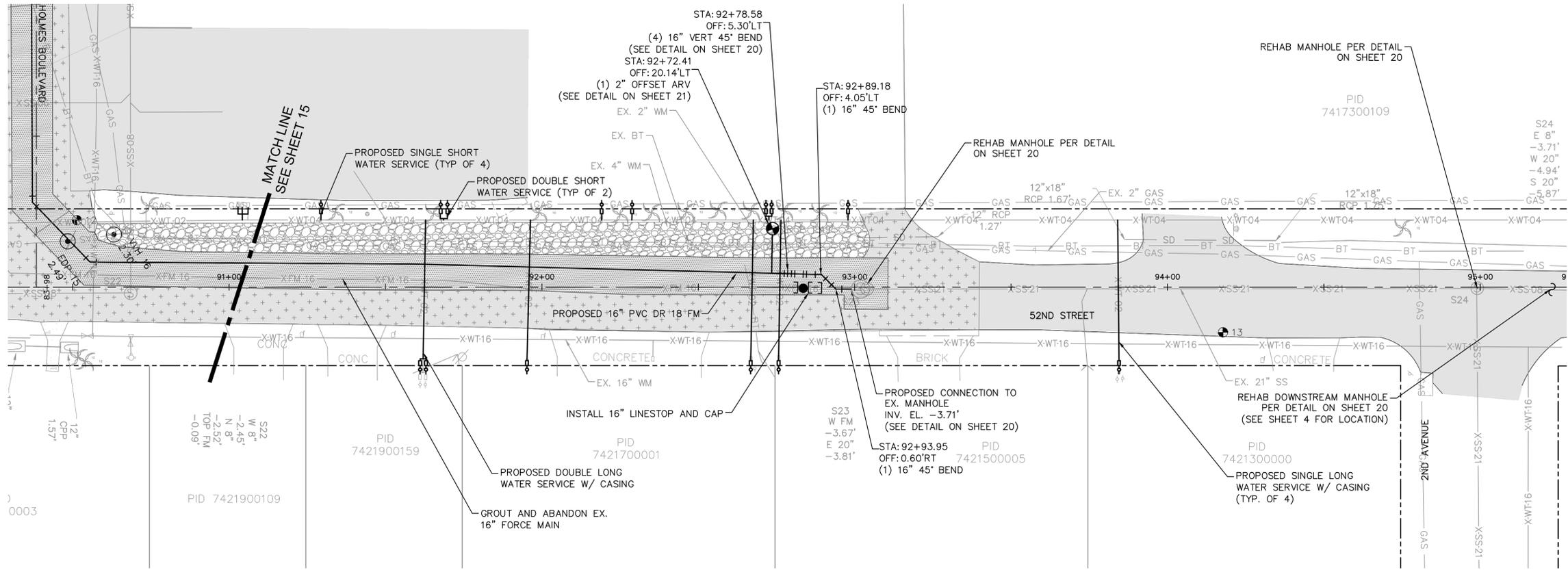
MANATEE COUNTY

LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER	87501
FL DATE:	

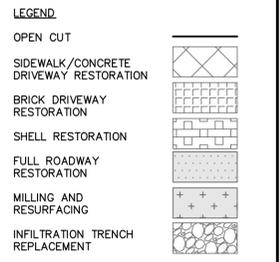
**PLAN & PROFILE**  
**STA 82+00 - 83+98**

SHEET NUMBER	15
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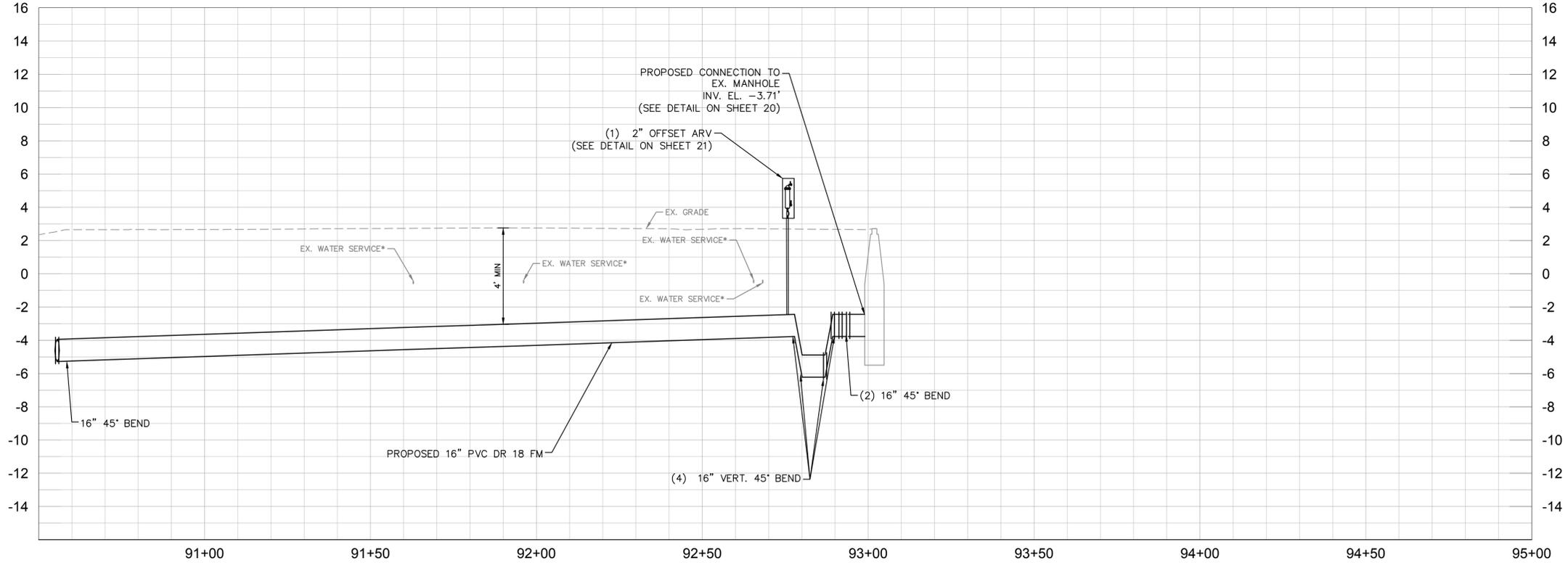
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 PHONE: 727-547-3999  
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400036

DATE 4/5/2021

SCALE AS SHOWN

DESIGNED BY MAS

DRAWN BY JWM

CHECKED BY WEW

**Manatee County**

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL A. SEMAGO, P.E.

FL LICENSE NUMBER 87501

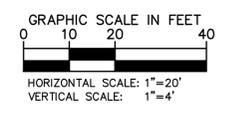
**PLAN & PROFILE**

**STA 91+26 - 95+00**

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**16**

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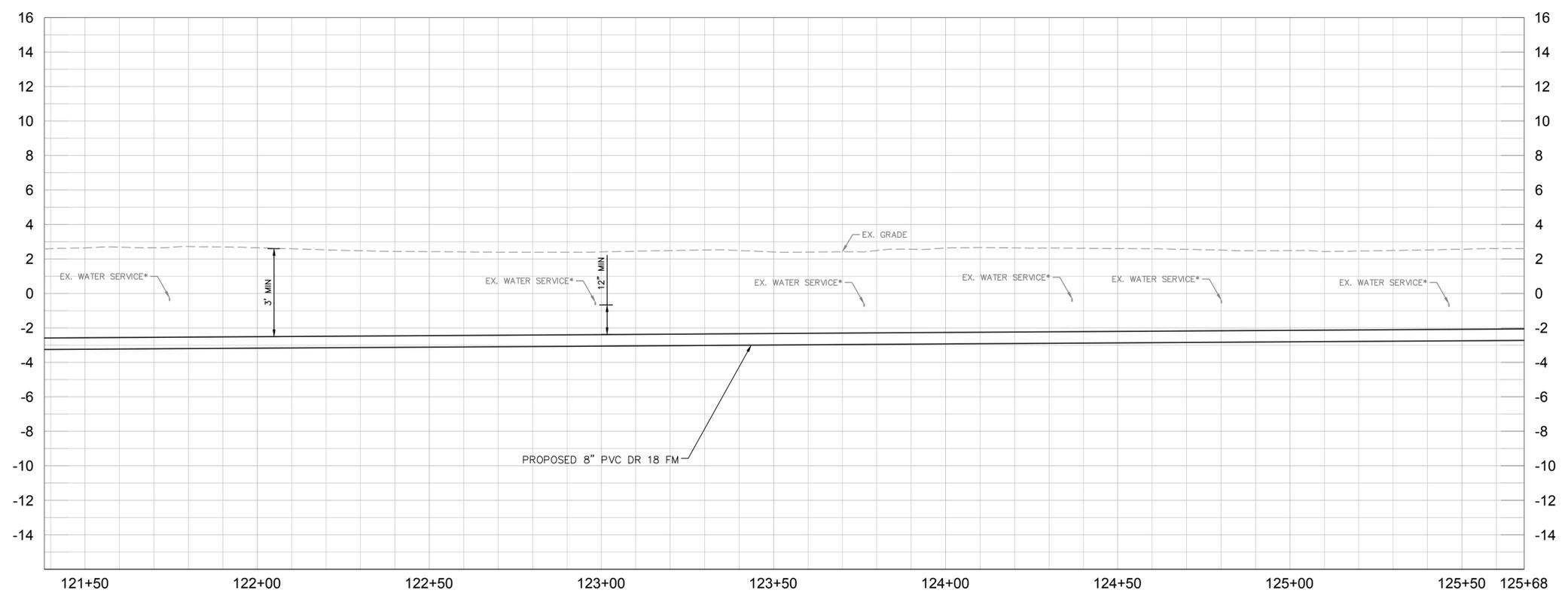
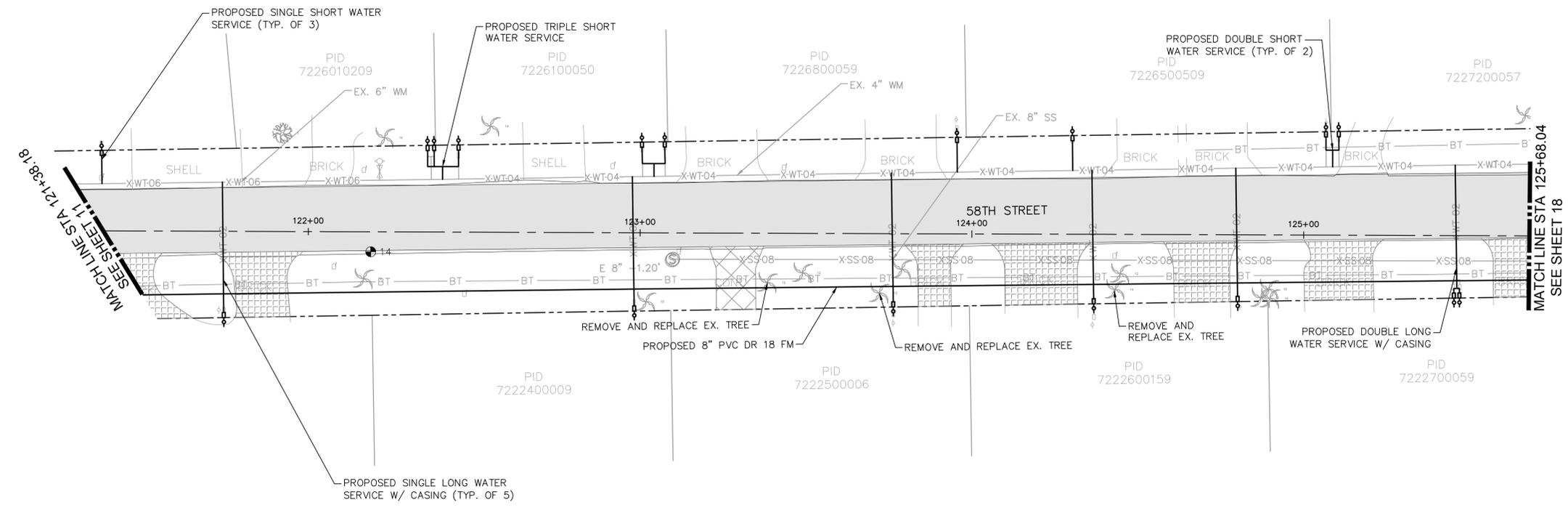
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KHA PROJECT	148400036
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**Manatee County**  
FLORIDA

**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**

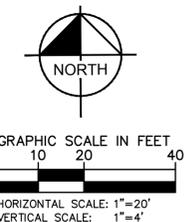
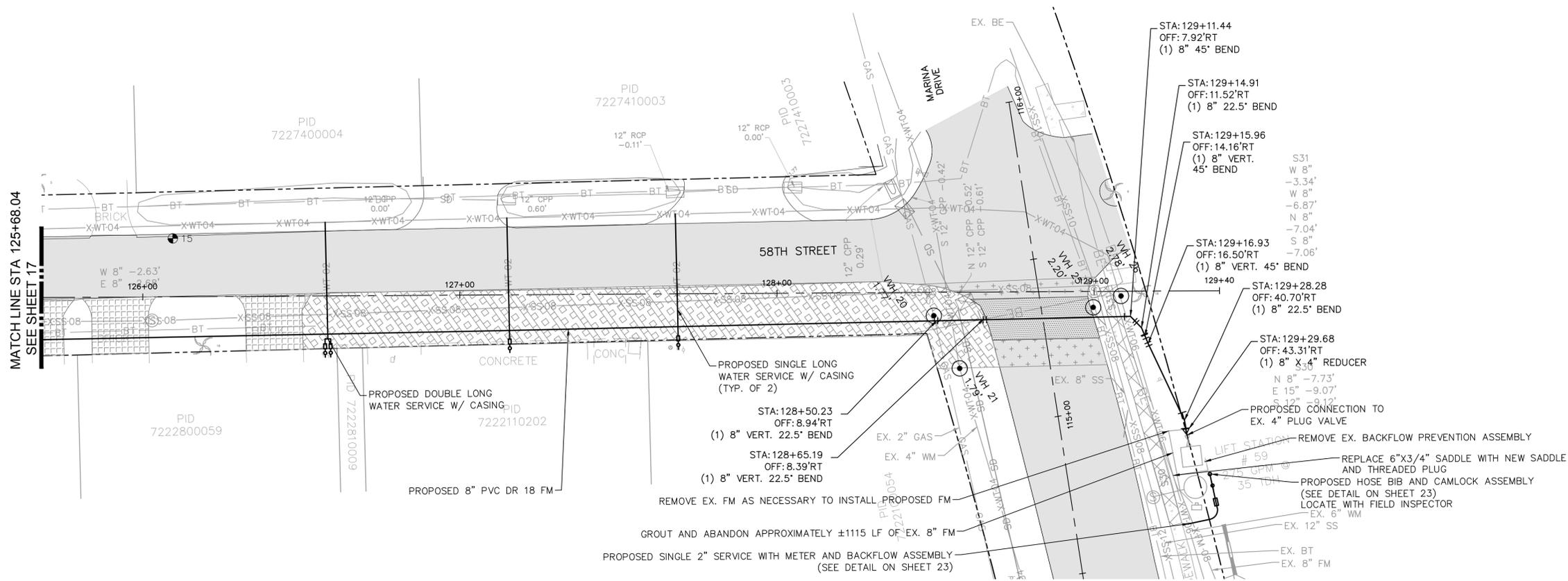
MANATEE COUNTY

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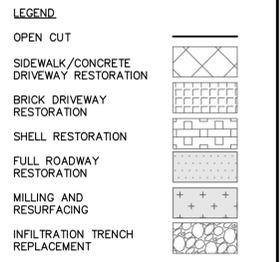
**PLAN & PROFILE**  
**STA 121+38 - 125+68**

SHEET NUMBER	17
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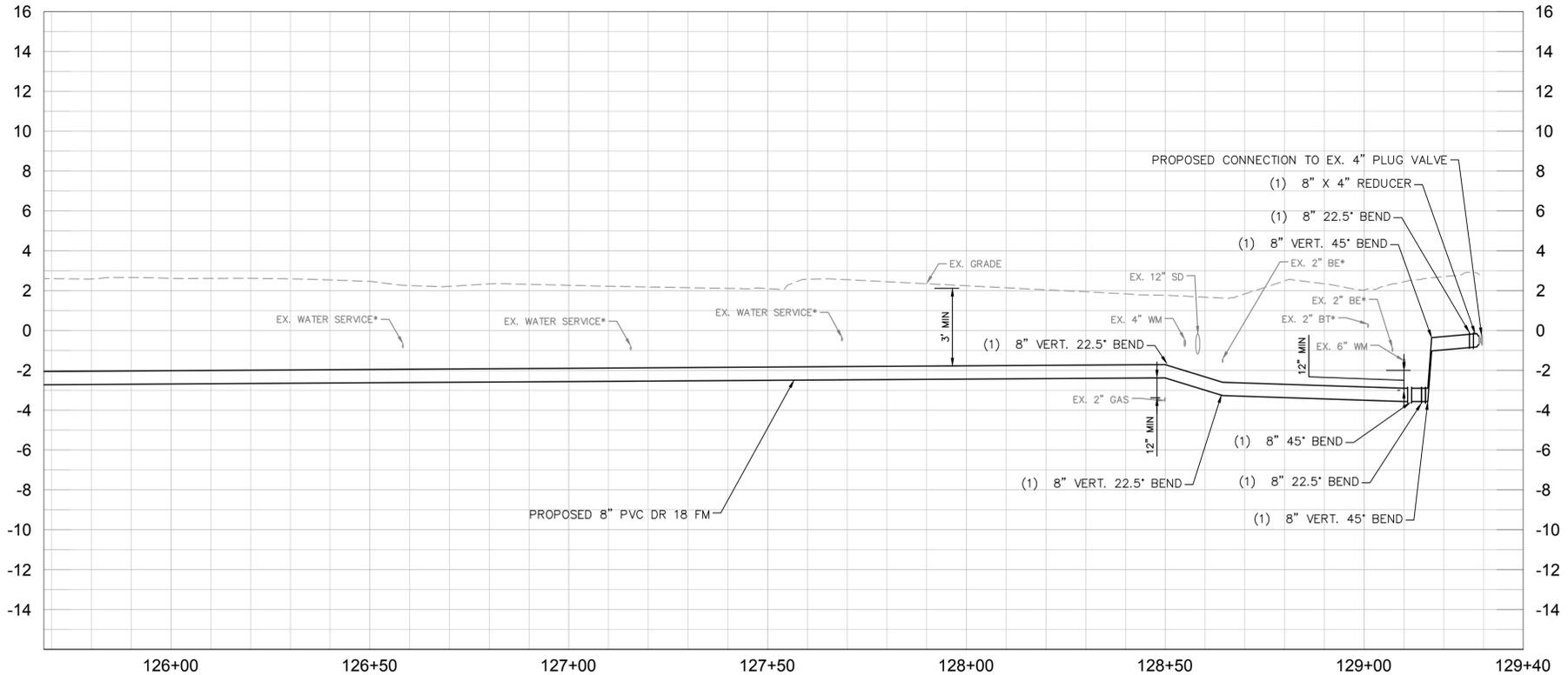
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**Manatee County**  
**HOLMES BOULEVARD FORCE MAIN REPLACEMENT**  
 MANATEE COUNTY

LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER	87501
DATE:	

**PLAN & PROFILE**  
**STA 125+68 - 129+40**

SHEET NUMBER	18
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