



Called Council Meeting & Planning & Code Retreat

AGENDA

Thursday, September 29, 2022

9:00 AM

City Hall

-
- I. CALL TO ORDER
 1. Roll Call
 2. Approval of Agenda
 - II. NEW BUSINESS
 1. SmartCode Presentation
 2. Planning & Code Updates
 - [3. Other Business](#)
 - III. ADJOURN

To: City Council
From: Logan Propes, City Administrator
 Rodney Middlebrooks
Department: Administration, WSG
Date: 9-29-2022
Subject: Portion of Raw & Finished Water Line Project - Emergency



Budget Account/Project Name: WaterLine

Funding Source: 2020 Utility Bond

Budget Allocation: \$3,600,000

Budget Available: \$3,362,079

Requested Expense: \$1,385,430.00 **Company of Record:** Mid-South Builders, Inc.

Description:

Staff recommends the approval of the lowest responsive bid to Mid-South Builders, Inc. in the amount of \$1,385,430.00

Background:

The City has been working on finalizing plans and easements for the 24" raw water line and parallel 20" finished water line. Just recently, the GDOT just let us know that the Westbound on ramps @ Hey 138 to US. 78 below Charlotte Rowell Blvd has been moved up for construction and just last week notified Rodney Middlebrooks that a section of the water mains would be in conflict with a portion of construction if we did not hurry up and install it now. If we waited, it may be 12 months until we could install the portion of our water mains, thus likely increasing costs, and delaying further water sales to Loganville and running another year+ without a redundant raw water feed.

The city will continue to pursue grants to help offset any construction costs. The funding for this parcel is on hand. Bids we solicited by our engineer and Rodney. One was a no bid due to volume of work, another hasn't responded, Mid-South Builders still has crews nearby they can mobilize and start work almost immediately.

Attachment(s):

Bid information

Rodney Middlebrooks

From: Holbrook, Terri <teholbrook@dot.ga.gov>
Sent: Thursday, September 22, 2022 10:12 AM
To: Henderson, Matt
Cc: Rodney Middlebrooks; Oliver, Robby; Pride-Foster, Yulonda
Subject: FW: PI 0015421 water permit issue

Importance: High

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Please send the corrected plan sheets and the justifications statements. We also need to know when your contractor can start work and the projected date the work will be completed.

Terri Holbrook
DIUT Utilities Specialist



District 1 Utilities
1475 Jesse Jewell Pkwy
Suite 100
Gainesville, GA, 30501
770.533.8316 office
678.725.1710 cell

From: Holbrook, Terri
Sent: Tuesday, September 20, 2022 12:34 PM
To: Rodney Middlebrooks <RMiddlebrooks@monroega.gov>
Subject: PI 0015421 water permit issue
Importance: High

Rodney,

I spoke with Yulonda concerning the water line permit. She has asked that you send the corrected plan sheets and justification statements to me as soon as possible. Once we receive them and review the them we will move forward with getting approval from the State Utility Office.

Also please let me know as soon as you can concerning the material procurement we discussed this morning. We need to know how soon you can get the materials and begin work.

Thanks

Terri Holbrook
DIUT Utilities Specialist



District 1 Utilities
1475 Jesse Jewell Pkwy
Suite 100
Gainesville, GA, 30501
770.533.8316 office
678.725.1710 cell

Georgia is a state of natural beauty. And it's a state that spends millions each year cleaning up litter that not only mars that beauty, but also affects road safety, the environment and the economy. Do your part – don't litter. How can you play an active role in protecting the splendor of the Peach State? Find out at <http://keepgaclean.com/>.

Mid-South Builders, Inc.

P.O. Box 878, Lithonia, GA 30058

Phone (770) 484-9600 FAX (770) 484-8046

September 22, 2022

Mr. Rodney Middlebrooks
City of Monroe
215 North Broad St.
P.O. Box 1249
Monroe, Ga 30655

Re: Charlotte Rowell Emergency 30" Water Main Installation

Mr. Middlebrooks,

Mid-South Builders, Inc. has made the necessary provisions to secure all the materials needed to perform this work as of today. If a decision can be reached and permits obtained for this work in a timely manner, Mid-South Builders, Inc. could be onsite and working as soon as November 1 2022 and would expect to be finished by Mid-February of 2023. If everything were to come together and we can shift a few things around there real is a chance we could be onsite even earlier to help expedite this project. As you are aware materials that are available may not be available tomorrow or may become unavailable at any time,

If you have any questions, please feel free to call.

Sincerely,

Benjamin C. Weaver

Benjamin C. Weaver
404-886-4661
General Superintendent

24" RAW WATER MAIN & 20" FINISHED WATER MAIN EXTENSION
CITY OF MONROE, GA

SECTION 00 41 13
BID FORM

ITEM 1 - DUCTILE IRON PIPE RAW WATER MAIN - PUSH ON JOINT PIPE

a. 1,254 L.F. 30-Inch \$ 415.00 /L.F. \$ 520,410.00

ITEM 2 - DUCTILE IRON PIPE RAW WATER MAIN - RESTRAINED JOINT PIPE

a. 126 L.F. 30-Inch \$ 605.00 /L.F. \$ 76,230.00

ITEM 3 - DUCTILE IRON PIPE RAW WATER MAIN - RJP INSIDE CASING

a. 180 L.F. 30-Inch \$ 605.00 /L.F. \$ 108,900.00

ITEM 4 - DUCTILE IRON PIPE RAW WATER MAIN - PUSH ON JOINT PIPE

a. 20 L.F. 24-Inch \$ 300.00 /L.F. \$ 6,000.00

ITEM 5 - DUCTILE IRON PIPE RAW WATER MAIN - RESTRAINED JOINT PIPE

a. L.F. 24-Inch \$ /L.F. \$

ITEM 6 - DUCTILE IRON PIPE RAW WATER MAIN - RJP INSIDE CASING

a. L.F. 24-Inch \$ /L.F. \$

ITEM 7 - DUCTILE IRON PIPE FINISHED WATER MAIN - PUSH ON JOINT PIPE

a. 0 L.F. 20-Inch \$ /L.F. \$

ITEM 8 - DUCTILE IRON PIPE FINISHED WATER MAIN - RESTRAINED JOINT PIPE

a. 230 L.F. 20-Inch \$ 287.00 /L.F. \$ 66,010.00

ITEM 9 - DUCTILE IRON PIPE FINISHED WATER MAIN - RJP INSIDE CASING

a. 70 L.F. 20-Inch \$ 287.00 /L.F. \$ 20,090.00

ITEM 10 - DUCTILE IRON FITTINGS - MECHANICAL JOINT

a. TONS 30, 24 & 20-Inch \$ /TN. \$

ITEM 11 - DUCTILE IRON FITTINGS - RESTRAINED JOINT

a. 11.6 TONS 30, 24 & 20-Inch \$ 10,000.00 /TN. \$ 116,000.00

ITEM 12 - CONNECTION TO EXISTING PIPE

- a. 1 EACH 20" New Pipe to Existing Pipe \$ 1,500.00 /EA. \$ 1,500.00 /
- b. 2 EACH 20" to Existing Pipe via Wet Wet Cut - In w/ Tee (Tee paid under fittings) \$ 2,000.00 EA. \$ 4,000.00

ITEM 13 - VALVES

- a. EACH 24-Inch Gate Valve \$ /EA. \$
- b. 2 EACH 20-Inch BFV Valve Class 250 \$ 9,000.00 /EA. \$ 18,000.00
- c. EACH 20"x20" Tapping Sleeve & Valve \$ /EA. \$

ITEM 14 - AIR/VACUUM RELEASE VALVE STATION

- a. 2 EACH 3-Inch Valve \$ 10,500.00 /EA. \$ 21,000.00
- b. 1 EACH 2-Inch Valve \$ 8,300.00 /EA. \$ 8,300.00

ITEM 15 - FIRE HYDRANT ASSEMBLY

- a. 1 EACH 4 1/2-Inch \$ 9,500.00 /EA. \$ 9,500.00

ITEM 16 - CORROSION CONTROL TEST STATION

- a. L.S. 24-Inch Pipeline Corrosion Control \$

ITEM 17 - JACK & BORE

- a. 70 L.F. 30-Inch Steel Casing Conventional Method \$ 900.00 /L.F. \$ 63,000.00
- a. 0 L.F. 36-Inch Steel Casing Conventional Method \$ /L.F. \$
- b. 0 L.F. 36-Inch Steel Casing Pilot-Tube Guided Method \$ /L.F. \$
- c. 180 L.F. 48-Inch Steel Casing Conventional Method \$ 1,200.00 /L.F. \$ 216,000.00

ITEM 18 - CONCRETE

- a. L.F. 24" Pipe Concrete Encasement \$ /L.F. \$

24" RAW WATER MAIN & 20" FINISHED WATER MAIN EXTENSION SECTION 00 41 13
CITY OF MONROE, GA BID FORM

b. <u>50</u> C.Y.	Thrust Blocking	\$ <u>300.00</u> /C.Y.	\$ <u>15,000.00</u>
c. <u>2</u> EACH	20" Thrust Collar	\$ <u>7,500.00</u> /EA.	\$ <u>15,000.00</u>
d. <u>2</u> EACH	30" Thrust Collar	\$ <u>18,000.00</u> /EA.	\$ <u>36,000.00</u>

ITEM 19 - REMOVE AND REPLACE PAVEMENT

a. <u> </u> L.F.	Asphalt Pavement	\$ <u> </u> /L.F.	\$ <u> </u>
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ITEM 20 - ROCK EXCAVATION

a. <u>100</u> C.Y.	Trench Rock	\$ <u>110.00</u> /C.Y.	\$ <u>11,000.00</u>
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ITEM 21 - EROSION AND SEDIMENTATION CONTROL

a. <u>1,625</u> L.F.	Ds1 / Ds3 (Grassing)	\$ <u>2.00</u> /L.F.	\$ <u>3,250.00</u>
b. <u>10</u> EACH	Cd- Hb (Hay Bales)	\$ <u>50.00</u> /EA.	\$ <u>500.00</u>
c. <u>3,250</u> L.F.	Sd1- S (Sediment Barrier)	\$ <u>5.00</u> /L.F.	\$ <u>16,250.00</u>
d. <u>200</u> L.F.	Sd1- SN (Sediment Barrier)	\$ <u>3.50</u> /L.F.	\$ <u>700.00</u>
e. <u> </u> L.F.	Sd1 (Compost Filter Sock)	\$ <u> </u> /L.F.	\$ <u> </u>
<u>1</u> EACH	Co (Construction Exit)	\$ <u>1,500.00</u> /EA.	\$ <u>1,500.00</u>
g. <u> </u> S.Y.	Ss (Erosion Control Blanket)	\$ <u> </u> /S.Y.	\$ <u> </u>
h. <u>18</u> TONS	Ch-Rp (Rip Rap)	\$ <u>60.00</u> /TN.	\$ <u>1,080.00</u>
k. <u>20</u> S.Y.	Geotextile Filter Fabric	\$ <u>4.00</u> /S.Y.	\$ <u>80.00</u>

ITEM 22 - TESTING OF WATER MAIN

a. <u>1,580</u> L.F.	Raw Water Main	\$ <u>1.00</u> /L.F.	\$ <u>1,580.00</u>
b. <u>300</u> L.F.	Finished Water Main	\$ <u>1.00</u> /L.F.	\$ <u>300.00</u>

ITEM 23 - CASH ALLOWANCES

a. SOILS AND CONCRETE TESTING	\$ <u>5,000.00</u>
b. CONSTRUCTION SURVEYING	\$ <u>3,000.00</u>
c. BLASTING MONITORING	\$ <u>5,000.00</u>
d. NPDES MONITORING	\$ <u>12,000.00</u>

24" RAW WATER MAIN & 20" FINISHED WATER MAIN EXTENSION
CITY OF MONROE, GA

SECTION 00 41 13
BID FORM

*****ADDITIONAL WORK IF ORDERED BY THE ENGINEER*****

ITEM 24 – TRENCH STABILIZATION

a. 50 C.Y. Beyond Bedding \$ 65.00 /C.Y. \$ 3,250.00

BASE BID TOTAL, ITEMS 1 THROUGH 17, INCLUSIVE, THE AMOUNT OF

One Million Three Hundred Eighty-Five Thousand Four Hundred Thirty and 00/100.

DOLLARS (\$ 1,385,430.00)

III. TERMS OF BID

1. The pipe lengths are what is in stock from U.S. Pipe. The 30" RJ is a mix of Class 51 and Class 55.
2. No Bedding Stone was included in the installation. It would be approx. 1,500 TN @ \$50.00 per Ton a \$75,000.00 savings.
3. Wet Cut-Ins were figured on the Ex. 20" with MJ Tees and Sleeves and utilizing 20" Cl. 250 BFVs, this is about a \$60,000.00 savings over (2) 20" x 20" Tap Sleeve and Valves. All fittings are in the Fitting Item (11 a.). 20" T.S.&V and 20" Gate Valves could take 18 weeks to get.
4. Fittings for the ARVs are included in the Fitting Item as well as the Fire Hydrant Tee.
5. 42" Jack and Bores were figured to save the Labor and Material savings over using 48" Casing. It saves \$225.00 per LF.
6. Trench Rock Unit Price is based on a 5'-6" pay width.
7. All bores are assumed to be Dirt.
8. All materials are available as of 9-16-2022.

Charlotte Rowell 30" Raw Water & 20" Finished

UNITS TOTALS

DESCRIPTION OF FITTINGS	QTY	UNIT	C110 W/	C110 W/	C153 W/O	C153 W/O
20 X 90 MJ BEND	3	EA	850	2,550	400	1200
30 X 90 MJ BEND	1	EA	2,130	2,130	930	930
30 X 45 MJ BEND	1	EA	1,820	1,820	780	780
20 X 22-1/2 MJ BEND	4	EA	705	2,820	310	1240
30 X 22-1/2 MJ BEND	2	EA	1,840	3,680	665	1330
20 X 11-1/4 MJ BEND	2	EA	710	1,420	245	490
30 X 11-1/4 MJ BEND	2	EA	1,850	3,700	600	1200
20 X 20 MJ TEE	2	EA	1,275	2,550	535	1070
20 X 6 MJ TEE	1	EA	911	911	315	315
30 X 6 MJ TEE	2	EA	2,186	4,372	700	1400
30 X 20 MJ TEE	2	EA	2,400	4,800	995	1990
20 MJ PLUG	1	EA	310	310	139	139
24 MJ PLUG	2	EA	440	880	181	362
30 X 24 MJ REDUCER	2	EA	1,490	2,980	478	956
20 SOLID SLEEVE	5	EA	550	2,750	195	975
20 MEGA-LUG PACK	34	EA		0	87	2958
24 MEGA-LUG PACK	4	EA		0	126	504
30 MEGA-LUG PACK	26	EA		0	207	5382
			LBS	37,673	LBS	23,221
			TNS	18.8365	TNS	11.6105

Rodney Middlebrooks

From: Henderson, Matt <mrh@wiedeman.com>
Sent: Tuesday, September 27, 2022 2:37 PM
To: Hank Merrill
Cc: Rodney Middlebrooks; Peter Johns
Subject: Re: Monroe 24" Raw Water Main & 20" Finished Water Main Project
Attachments: Monroe 24-Inch RWM & 20-Inch FWM - Specs - Bid Ready Set 2.10.22.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hank,

Attached are the Bid Ready Specifications for your review and use. The Bid Form for the entire project is included, but the quantities will need to be adjusted accordingly.

I talked to Rodney Middlebrooks and he said the City has not purchased the pipe at this point, so if you would go ahead and price the work as if JDS is purchasing the pipe.

Please let me know if you have any questions or comments.

Thanks,
Matt

On Tue, Sep 27, 2022 at 2:23 PM Hank Merrill <hmerrill@jdspipe.com> wrote:

Matt,

Yes we are interested. Please forward specifications and details for this so that we can put pricing together.

You mentioned that some of the piping may be furnished by the city. Please clarify what will be furnished and what we need to include in our pricing so I can rundown lead times and determine crew availability.

Thanks,
Hank

Please note new email address: hmerrill@jdspipe.com

Hank Merrill

JDS Inc.

272 Hurricane Shoals Road, NE

Lawrenceville, GA 30046

(770) 972-8000 Office

(770) 714-7597 Cell



From: Henderson, Matt <mrh@wiedeman.com>
Sent: Thursday, September 22, 2022 2:52 PM
To: Hank Merrill <hmerrill@jdspipe.com>
Cc: Rodney Middlebrooks <RMiddlebrooks@monroega.gov>; Peter Johns <PJJ@wiedeman.com>
Subject: Monroe 24" Raw Water Main & 20" Finished Water Main Project

Hank,

As discussed, the City is needing to go ahead and get a portion above project raw and finished water mains installed through the GDOT R/W prior to their contractor starting the roadway construction. The GDOT project is scheduled to bid this November, so we should have until the end of the year to complete the water main installations to get off the R/W.

Attached are the two sheets for this portion of the overall project. If interested, please let me know any questions you may have or other details, specifications, etc. that you may need to submit a price and schedule.

Thanks,

Matt

Matt Henderson, P.E.

Wiedeman and Singleton, Inc.

[3091 Governors Lake Drive](#)

[Suite 430](#)

[Norcross, GA 30071](#)

mrh@wiedeman.com

(770) 401-6197 (cell)

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Matt Henderson, P.E.

Wiedeman and Singleton, Inc.

[3091 Governors Lake Drive](#)

[Suite 430](#)

[Norcross, GA 30071](#)

mrh@wiedeman.com

(770) 401-6197 (cell)

Rodney Middlebrooks

From: Henderson, Matt <mrh@wiedeman.com>
Sent: Thursday, September 22, 2022 2:47 PM
To: Rob Strickland
Cc: Rodney Middlebrooks; Peter Johns
Subject: Monroe 24" Raw Water Main & 20" Finished Water Main Project
Attachments: Stubbed Attachments.htm



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Rob,

As discussed, the City is needing to go ahead and get a portion above project raw and finished water mains installed through the GDOT R/W prior to their contractor starting the roadway construction. The GDOT project is scheduled to bid this November, so we should have until the end of the year to complete the water main installations to get off the R/W.

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Thanks,
Matt

Matt Henderson, P.E.
Wiedeman and Singleton, Inc.
[3091 Governors Lake Drive](#)
[Suite 430](#)
[Norcross, GA 30071](#)
mrh@wiedeman.com
(770) 401-6197 (cell)

Rodney Middlebrooks

From: Rob Strickland <Rob.s@sspipeline.net>
Sent: Wednesday, September 28, 2022 10:32 AM
To: Henderson, Matt
Cc: Rodney Middlebrooks; Peter Johns
Subject: RE: Monroe 24" Raw Water Main & 20" Finished Water Main Project

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Matt,
Thank you for thinking of us for this project.
Unfortunately we will not be submitting a proposal due to our current workload.

Thanks,

Rob Strickland
Strickland & Sons Pipeline, Inc.
1551 Fullenwider Road
Gainesville GA 30507
770-535-2246

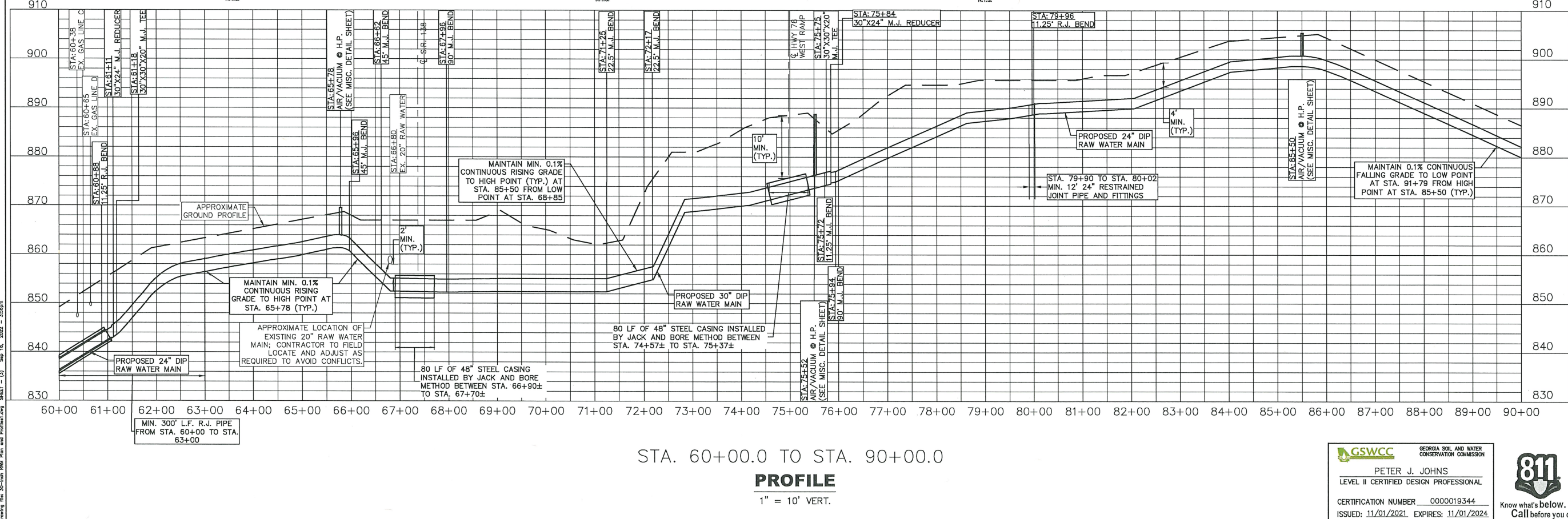
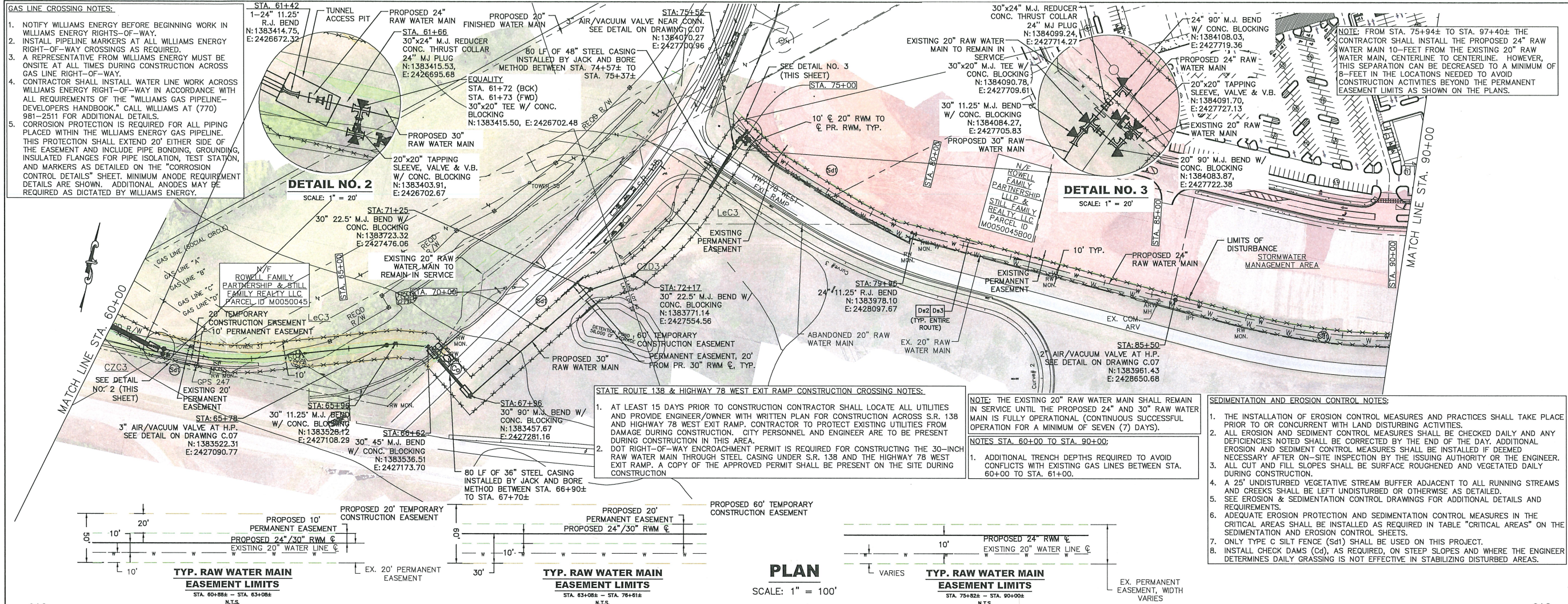
From: Henderson, Matt <mrh@wiedeman.com>
Sent: Thursday, September 22, 2022 2:47 PM
To: Rob Strickland <Rob.s@sspipeline.net>
Cc: Rodney Middlebrooks <RMiddlebrooks@monroega.gov>; Peter Johns <PJJ@wiedeman.com>
Subject: Monroe 24" Raw Water Main & 20" Finished Water Main Project

Rob,

As discussed, the City is needing to go ahead and get a portion above project raw and finished water mains installed through the GDOT R/W prior to their contractor starting the roadway construction. The GDOT project is scheduled to bid this November, so we should have until the end of the year to complete the water main installations to get off the R/W.

Attached are the two sheets for this portion of the overall project. If interested, please let me know any questions you may have or other details, specifications, etc. that you may need to submit a price and schedule.

Thanks,



- GAS LINE CROSSING NOTES:**
1. NOTIFY WILLIAMS ENERGY BEFORE BEGINNING WORK IN WILLIAMS ENERGY RIGHTS-OF-WAY.
 2. INSTALL PIPELINE MARKERS AT ALL WILLIAMS ENERGY RIGHT-OF-WAY CROSSINGS AS REQUIRED.
 3. A REPRESENTATIVE FROM WILLIAMS ENERGY MUST BE ON-SITE AT ALL TIMES DURING CONSTRUCTION ACROSS CONTRACTOR SHALL INSTALL WATER LINE WORK ACROSS WILLIAMS ENERGY RIGHT-OF-WAY IN ACCORDANCE WITH ALL REQUIREMENTS OF THE "WILLIAMS GAS PIPELINE-DEVELOPERS HANDBOOK." CALL WILLIAMS AT (770) 981-2511 FOR ADDITIONAL DETAILS.
 4. CORROSION PROTECTION IS REQUIRED FOR ALL PIPING PLACED WITHIN THE WILLIAMS ENERGY GAS PIPELINE. THIS PROTECTION SHALL EXTEND 20' EITHER SIDE OF THE EASEMENT AND INCLUDE PIPE BONDING, GROUNDING, INSULATED FLANGES FOR PIPE ISOLATION, TEST STATION, AND MARKERS AS DETAILED ON THE "CORROSION CONTROL DETAILS" SHEET. MINIMUM ANODE REQUIREMENT DETAILS ARE SHOWN. ADDITIONAL ANODES MAY BE REQUIRED AS DICTATED BY WILLIAMS ENERGY.

NOTE: FROM STA. 75+94± TO STA. 97+40± THE CONTRACTOR SHALL INSTALL THE PROPOSED 24" RAW WATER MAIN 10- FEET FROM THE EXISTING 20" RAW WATER MAIN, CENTERLINE TO CENTERLINE. HOWEVER, THIS SEPARATION CAN BE DECREASED TO A MINIMUM OF 8- FEET IN THE LOCATIONS NEEDED TO AVOID CONSTRUCTION ACTIVITIES BEYOND THE PERMANENT EASEMENT LIMITS AS SHOWN ON THE PLANS.

- STATE ROUTE 138 & HIGHWAY 78 WEST EXIT RAMP CONSTRUCTION CROSSING NOTES:**
1. AT LEAST 15 DAYS PRIOR TO CONSTRUCTION CONTRACTOR SHALL LOCATE ALL UTILITIES AND PROVIDE ENGINEER/OWNER WITH WRITTEN PLAN FOR CONSTRUCTION ACROSS S.R. 138 AND HIGHWAY 78 WEST EXIT RAMP. CONTRACTOR TO PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. CITY PERSONNEL AND ENGINEER ARE TO BE PRESENT DURING CONSTRUCTION IN THIS AREA.
 2. DOT RIGHT-OF-WAY ENCROACHMENT PERMIT IS REQUIRED FOR CONSTRUCTING THE 30-INCH RAW WATER MAIN THROUGH STEEL CASING UNDER S.R. 138 AND THE HIGHWAY 78 WEST EXIT RAMP. A COPY OF THE APPROVED PERMIT SHALL BE PRESENT ON THE SITE DURING CONSTRUCTION.

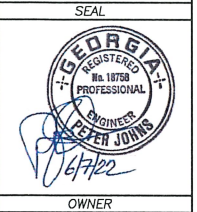
NOTE: THE EXISTING 20" RAW WATER MAIN SHALL REMAIN IN SERVICE UNTIL THE PROPOSED 24" AND 30" RAW WATER MAIN IS FULLY OPERATIONAL (CONTINUOUS SUCCESSFUL OPERATION FOR A MINIMUM OF SEVEN (7) DAYS).

NOTES STA. 60+00 TO STA. 90+00:

1. ADDITIONAL TRENCH DEPTHS REQUIRED TO AVOID CONFLICTS WITH EXISTING GAS LINES BETWEEN STA. 60+00 TO STA. 61+00.

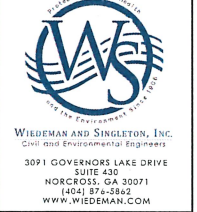
- SEDIMENTATION AND EROSION CONTROL NOTES:**
1. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
 2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED BY THE END OF THE DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY OR THE ENGINEER.
 3. ALL CUT AND FILL SLOPES SHALL BE SURFACE ROUGHENED AND VEGETATED DAILY DURING CONSTRUCTION.
 4. A 25' UNDISTURBED VEGETATIVE STREAM BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS SHALL BE LEFT UNDISTURBED OR OTHERWISE AS DETAILED.
 5. SEE EROSION & SEDIMENTATION CONTROL DRAWINGS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
 6. ADEQUATE EROSION PROTECTION AND SEDIMENTATION CONTROL MEASURES IN THE CRITICAL AREAS SHALL BE INSTALLED AS REQUIRED IN TABLE "CRITICAL AREAS" ON THE SEDIMENTATION AND EROSION CONTROL SHEETS.
 7. ONLY TYPE C SILT FENCE (Sd1) SHALL BE USED ON THIS PROJECT.
 8. INSTALL CHECK DAMS (Cd), AS REQUIRED, ON STEEP SLOPES AND WHERE THE ENGINEER DETERMINES DAILY GRASSING IS NOT EFFECTIVE IN STABILIZING DISTURBED AREAS.

REV.	DATE	DESCRIPTION
3	05/28/2021	REGULATORY REVIEW SET
4	09/01/2021	REVISED TO ADDRESS COMMENTS
5	11/01/2021	REVISED TO ADDRESS REGULATORY COMMENTS
6	2/14/2022	BID READY SET
7	6/10/2022	EASEMENT LIMITS UPDATED
8	09/16/2022	REVISED DUE TO GOOT PROJECT



CONSULTANT INFORMATION

PROJECT MANAGER: PJJ
 DESIGNED BY: PJJ
 DRAWN BY: SPM/NRB
 CHECKED BY: PJJ/MRH
 FILE NAME: 30-inch RWM Plan and Profile.dwg
 PROJECT NO.: 273-17-230



PROJECT INFORMATION

PROJECT: THE CITY OF MONROE
 24" RAW WATER MAIN & 20" FINISHED WATER MAIN EXTENSION
 WALTON COUNTY, GEORGIA
 SHEET TITLE: RAW WATER MAIN PLAN AND PROFILE
 STA. 60+00 TO STA. 90+00

SCALE: AS SHOWN

NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.

DRAWING: C.03

SHEET: 5 OF 17

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

PETER J. JOHNS
 LEVEL II CERTIFIED DESIGN PROFESSIONAL
 CERTIFICATION NUMBER 0000019344
 ISSUED: 11/01/2021. EXPIRES: 11/01/2024.



TEMPORARY ACCESS ROADS AND STREAM CROSSING NOTES:

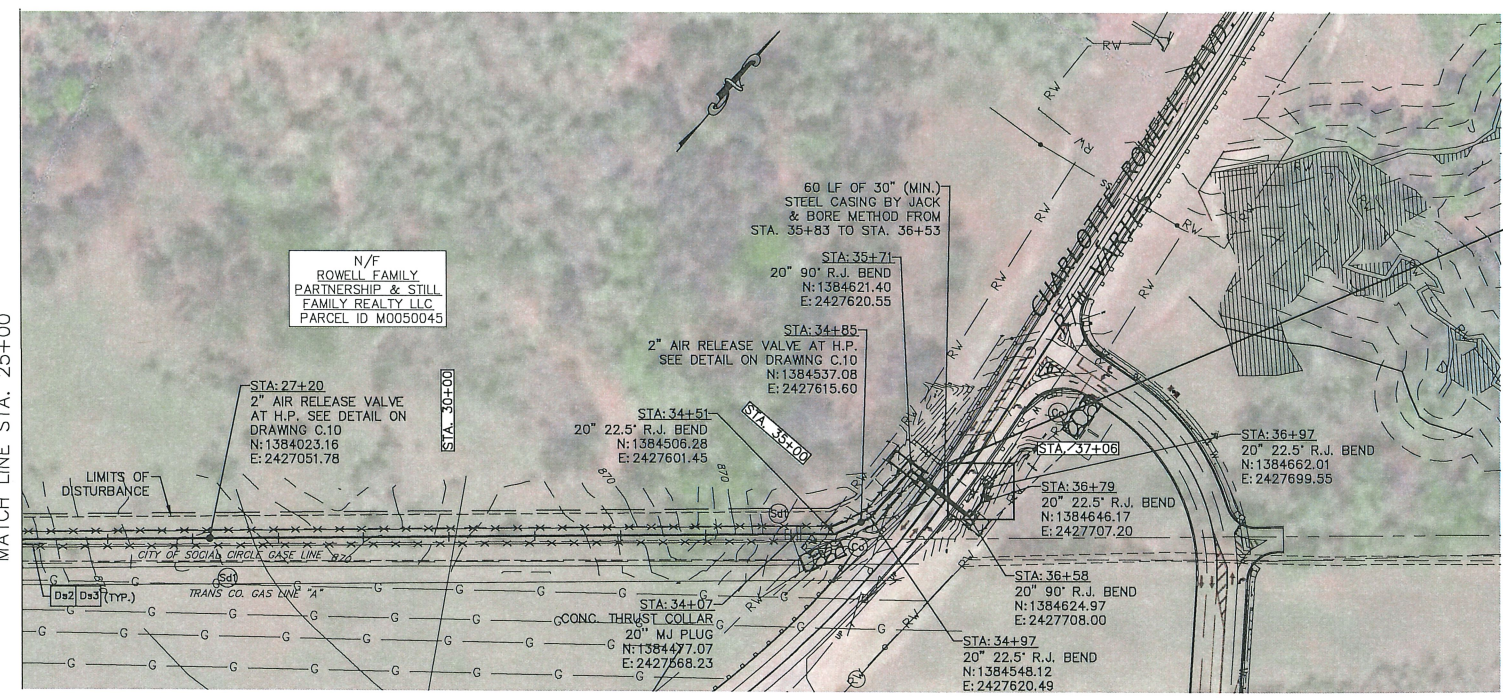
- ON ALL CREEK/STREAM CROSSINGS, REDUCE EASEMENT WIDTH TO JUST PERMANENT EASEMENT ACROSS STREAM. RIP RAP ACROSS STREAM IN THIS WIDTH.
- TEMPORARY ACCESS ROADS AT STREAM CROSSINGS SHALL BE LIMITED TO THE MINIMUM WIDTH NECESSARY FOR CONSTRUCTION.
- INSTALL A TEMPORARY STREAM CROSSING (S_t) AT EACH STREAM CROSSING FOR CONSTRUCTION EQUIPMENT ACCESS. FOLLOWING CONSTRUCTION, REMOVE (S_t) AND INSTALL CHANNEL STABILIZATION (C_s) AS DETAILED.
- ALL EXPOSED SLOPES AND STREAM BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION AND ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONTOURS AND CONDITIONS.
- SEE EROSION & SEDIMENTATION CONTROL DRAWINGS FOR ADDITIONAL DETAILS AND REQUIREMENTS.

SEDIMENTATION AND EROSION CONTROL NOTES:

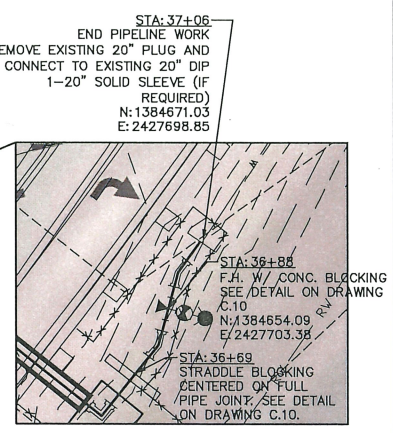
- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED BY THE END OF THE DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY OR THE ENGINEER.
- ALL CUT AND FILL SLOPES SHALL BE SURFACE ROUGHENED AND VEGETATED DAILY DURING CONSTRUCTION.
- A 25' UNDISTURBED VEGETATIVE STREAM BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS SHALL BE LEFT UNDISTURBED OR OTHERWISE AS DETAILED.
- SEE EROSION & SEDIMENTATION CONTROL DRAWINGS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- ADEQUATE EROSION PROTECTION AND SEDIMENTATION CONTROL MEASURES IN THE CRITICAL AREAS SHALL BE INSTALLED AS REQUIRED IN TABLE "CRITICAL AREAS" ON THE SEDIMENTATION AND EROSION CONTROL SHEETS.
- ONLY TYPE C SILT FENCE (S_{d1}) SHALL BE USED ON THIS PROJECT.
- INSTALL CHECK DAMS (C_d), AS REQUIRED, ON STEEP SLOPES AND WHERE THE ENGINEER DETERMINES DAILY GRASSING IS NOT EFFECTIVE IN STABILIZING DISTURBED AREAS.

RESTRAINED JOINT NOTES:

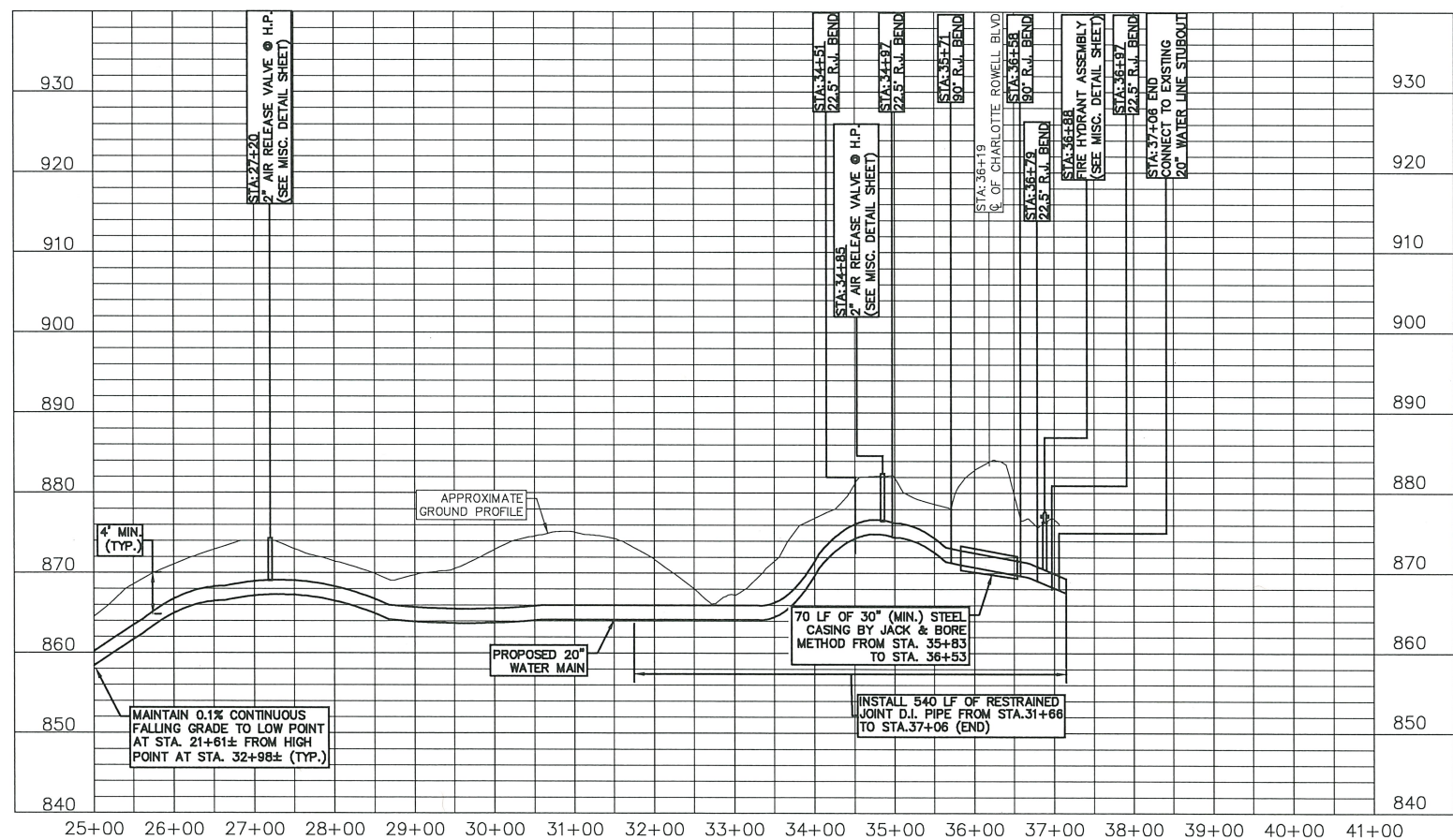
- SPLIT TOTAL RESTRAINED JOINT (R.J) LENGTH EQUALLY ON EACH SIDE OF FITTINGS, IF POSSIBLE.
- WHERE FITTINGS ARE TOO CLOSE TO AVOID OVERLAPPING RJ LENGTHS, RESTRAIN ALL JOINTS BETWEEN THE FITTINGS AND ALLOCATE ONE-HALF OF THE RJ LENGTH BETWEEN THE FITTINGS TO EACH FITTING, AND INCREASE THE RJ LENGTH OF THE PIPE OUTSIDE EACH FITTING TO ACHIEVE THE TOTAL REQUIRED RJ LENGTH FOR EACH FITTING.
- UTILIZE TYPE 5 BEDDING FOR ALL RESTRAINED JOINT PIPING. SEE DETAIL ON DRAWING C.07.



PLAN
SCALE: 1" = 100'



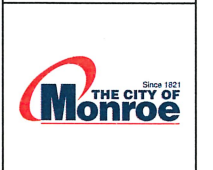
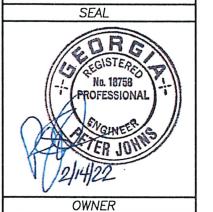
DETAIL AT END
SCALE: 1" = 20'



STA. 25+00.0 TO STA. 41+00.0

PROFILE
1" = 10' VERT.

REV.	DATE	DESCRIPTION	BY
2	04/06/2021	100% DESIGN REVIEW SET - UPDATE	SPM
3	05/28/2021	REGULATORY REVIEW SET	SPM
4	09/01/2021	REVISED TO ADDRESS COMMENTS	AX
5	11/01/2021	REVISED TO ADDRESS REGULATORY COMMENTS	AX
6	02/14/2022	BID READY SET	NRB
7	09/16/2022	REVISED DUE TO GOOT PROJECT	AX



CONSULTANT INFORMATION
 PROJECT MANAGER: PJJ
 DESIGNED BY: PJJ
 DRAWN BY: NRB
 CHECKED BY: PJJ/MRH
 FILENAME: 24inch WATER LINE Plan and Profile.dwg
 PROJECT NO.: 273-17-230



PROJECT INFORMATION

PROJECT: THE CITY OF MONROE
 24" RAW WATER MAIN & 20" FINISHED WATER MAIN EXTENSION
 WALTON COUNTY, GEORGIA
 SHEET TITLE: 20" FINISHED WATER MAIN PLAN AND PROFILE
 STA. 25+00 TO END

SCALE: AS SHOWN
 NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.
 DRAWING: C.08
 SHEET: 10 OF 17

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
 PETER J. JOHNS
 LEVEL II CERTIFIED DESIGN PROFESSIONAL
 CERTIFICATION NUMBER: 0000019344
 ISSUED: 11/01/2021 EXPIRES: 11/01/2024

