NOTES

1. TYPICAL VALVE/EQUIPMENT TAG NUMBER DESIGNATION

XX–XX–001
- CONSECUTIVE NUMBER
- VALVE/EQUIPMENT ABBREVIATIONS
- SYSTEM CODE

LEGEND

- EXISTING
- FUTURE
- BACKGROUND
- PROPOSED

A. SYSTEM CODE:

11 - RIVER INTAKE PUMP STATION
12 - RIVER SHAFT

B. VALVE TYPE:

V2 - GATE VALVE
V8 - PUMP CONTROL VALVE
V9 - AIR VALVE

C. EQUIPMENT ABBREVIATIONS

FM - FLOW METER
SG - SLIDE GATE
WR - WEIR
FS - FINE SCREEN
SL - STOP LOG
BC - BELT CONVEYOR
SM - SAMPLE PUMPS
SP - SUMP PUMPS

CHATTAHOOCHEE RIVER
RIVER INTAKE
11-SM-001
11-SL-002
11-SL-001
EXISTING PEACHTREE PUMP STATION
TO ROLL-OFF CONTAINER
11-BC-001
11-SG-004
11-FS-004
11-SG-104
11-SG-201
11-SG-003
11-FS-003
11-SG-103
FUTURE PRE-SETTLING
11-PU-006
11-PU-005
11-PU-004
11-PU-003
11-PU-002
11-PU-001
11-SG-002
11-FS-002
11-SG-102
SCREENING DEBRIS (TYP.)
11-SG-001
11-FS-001
11-SG-101
11-V9-006
11-V9-005
11-V9-004
11-V9-003
11-V9-002
11-V9-001
11-V8-006
11-V8-005
11-V8-004
11-V8-003
11-V8-002
11-V8-001
11-SG-202
11-SG-203
11-V2-006
11-V2-005
11-V2-004
11-V2-003
11-V2-002
11-V2-001
11-V2-007
TO EXISTING STORM SEWER
11-SP-001
DH
11-SP-002
FE
11-V2-008
11-FM-001
11-V2-009
11-FM-002
FE
60 X 48 RDCR
60 X 48 RDCR
60 X 48 RDCR
60 X 48 RDCR
11-SM-002
TUNNEL SHAFT
TUNNEL NETWORK

P:\City of Atlanta – Water Supply Program Phase II\CD Drawings\PROCESS\RI–PS DP0–001.dwg, PRINTED BY: Hodyn.Barnes ON Thu, Dec 05 2019 AT 8:54 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 25089 09/27/19 GEORGE A.T.

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	J.M.
DRAWN BY:	H.B.
CHECKED BY:	A.T.
DATE:	09/27/19
SCALE:	NONE

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

SITE 1
PROCESS FLOW DIAGRAM

DRAWING NO.

RI-PS

DP0-001

SHEET OF

ISSUED FOR BIDDING

NOTES

1. TYPICAL VALVE/EQUIPMENT TAG NUMBER DESIGNATION

XX–XX–001
- CONSECUTIVE NUMBER
- VALVE/EQUIPMENT ABBREVIATIONS
- SYSTEM CODE

A. SYSTEM CODE:

08 - WET WELL
09 - OPERATING FLOOR
10 - YARD PIPING

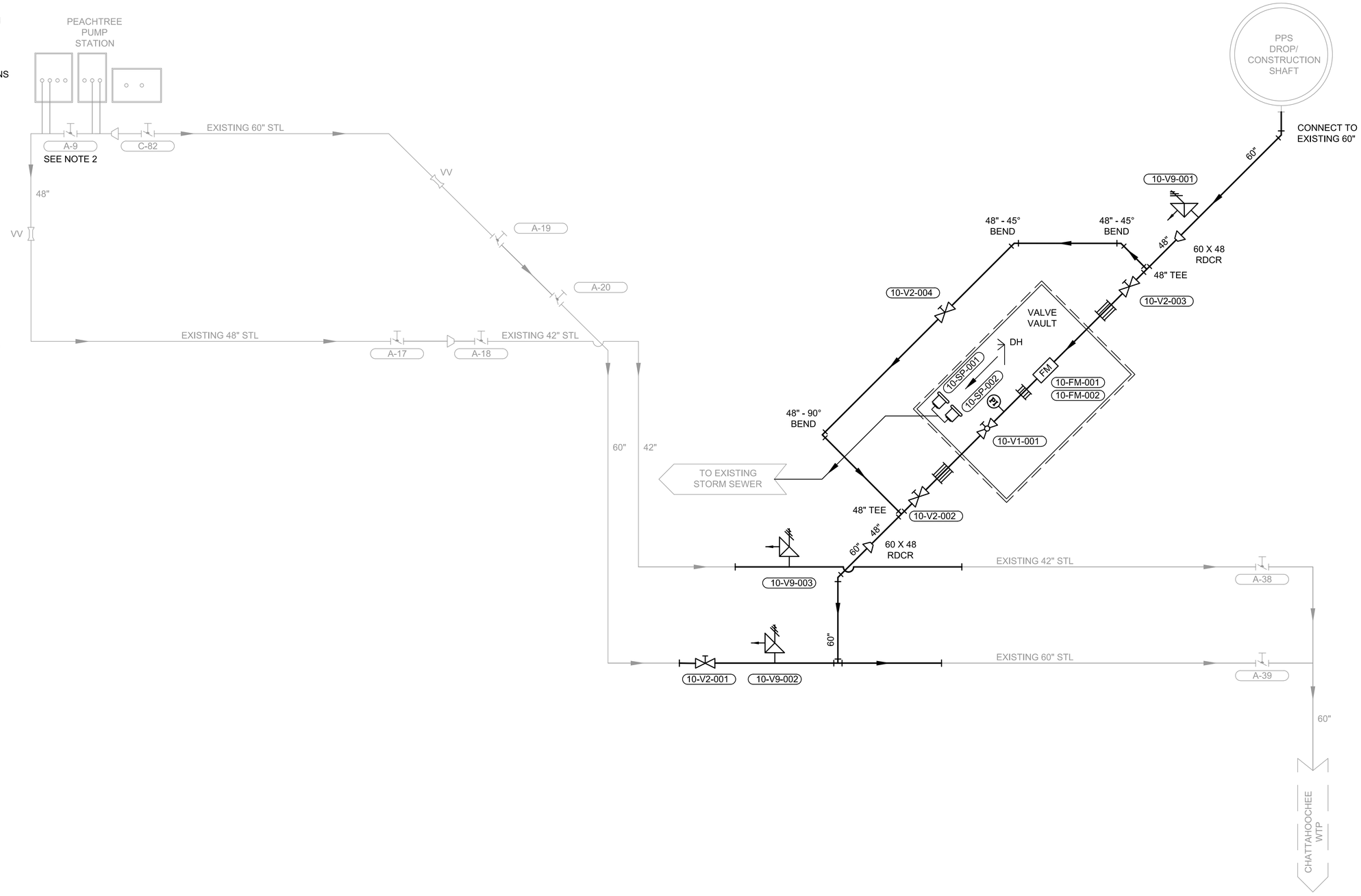
B. VALVE TYPE:

V1 - BALL VALVE
V2 - GATE VALVE
V9 - AIR/VACUUM RELIEF VALVE

C. EQUIPMENT ABBREVIATIONS

DH - DEHUMIDIFIER
FM - FLOW METER
PI - PRESSURE INDICATOR
PP - PUMP
SP - SUMP PUMPS
VV - VENTURI VAULT
SM - SAMPLE PUMPS

2. FOR EXISTING VALVES SCHEDULE SEE "COA PUMPING STATION & PIPING LAYOUT 1994"



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BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED NO. 26085 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	NONE

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

SITE 2
PROCESS FLOW DIAGRAM

DRAWING NO.
RI-PS
DP0-002
SHEET OF

ISSUED FOR BIDDING

ABBREVIATIONS:

W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTOR
W3: NON-POTABLE WATER (WELL WATER)

REFERENCE DRAWINGS

A1-100 - ARCHITECTURAL
S-SS - STRUCTURAL

NOTES

1. TYPICAL VALVE/EQUIPMENT TAG NUMBER DESIGNATION

XX–XX–001
- 001 — CONSECUTIVE NUMBER
- XX — VALVE/EQUIPMENT ABBREVIATIONS
- XX — SYSTEM CODE

A. SYSTEM CODE:

11 - RIVER INTAKE PUMP STATION
12 - RIVER SHAFT

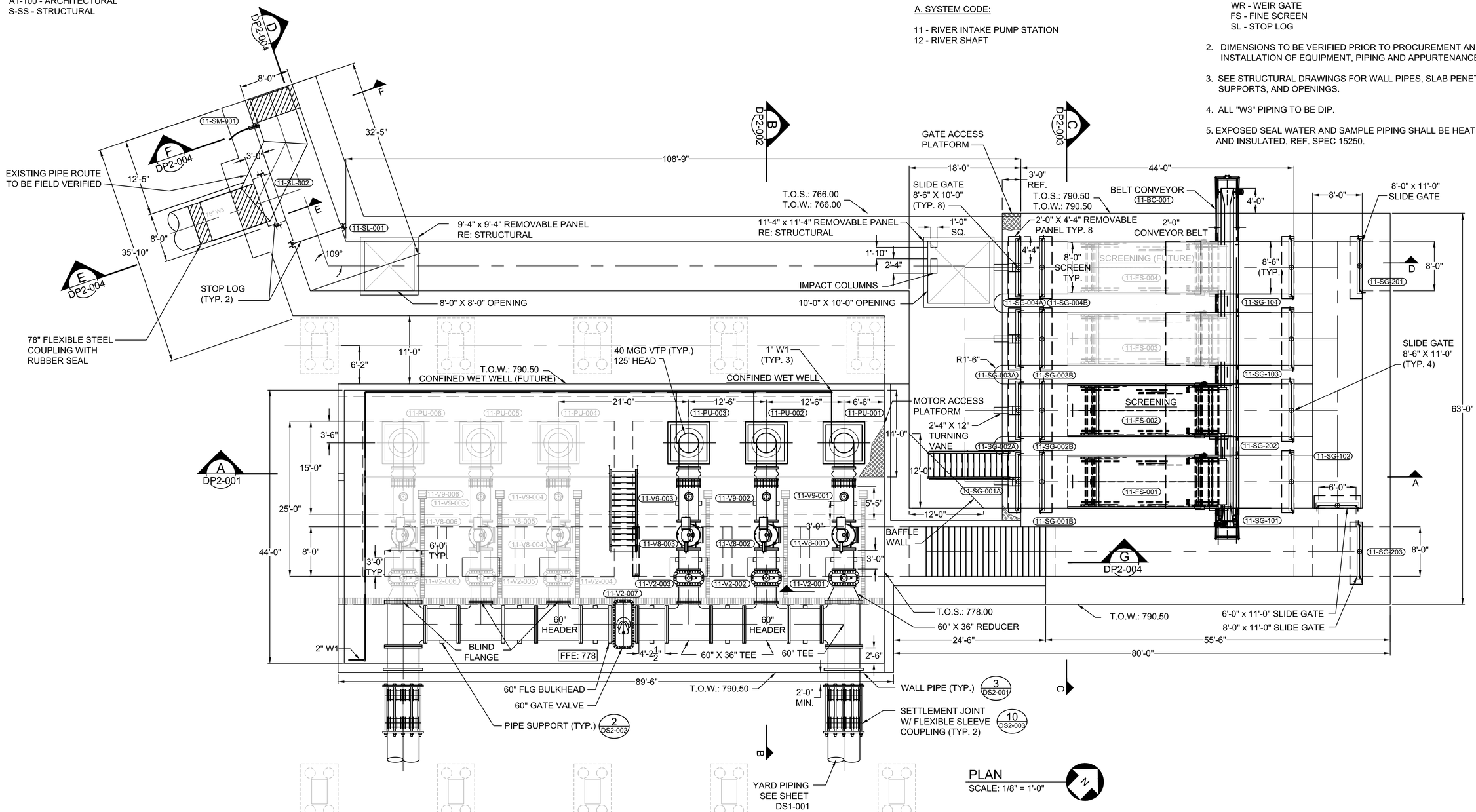
A. VALVE TYPE:

V2 - GATE VALVE
V8 - AIR/VACUUM RELIEF VALVE
V9 - PUMP CONTROL VALVE

B. EQUIPMENT ABBREVIATIONS

SG - SLIDE GATE
WR - WEIR GATE
FS - FINE SCREEN
SL - STOP LOG

2. DIMENSIONS TO BE VERIFIED PRIOR TO PROCUREMENT AND INSTALLATION OF EQUIPMENT, PIPING AND APPURTENANCES.
3. SEE STRUCTURAL DRAWINGS FOR WALL PIPES, SLAB PENETRATIONS, SUPPORTS, AND OPENINGS.
4. ALL "W3" PIPING TO BE DIP.
5. EXPOSED SEAL WATER AND SAMPLE PIPING SHALL BE HEAT TRACED AND INSULATED. REF. SPEC 15250.



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BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 29889 PROFESSIONAL 09/27/19 ENGINEER GEORGE AY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

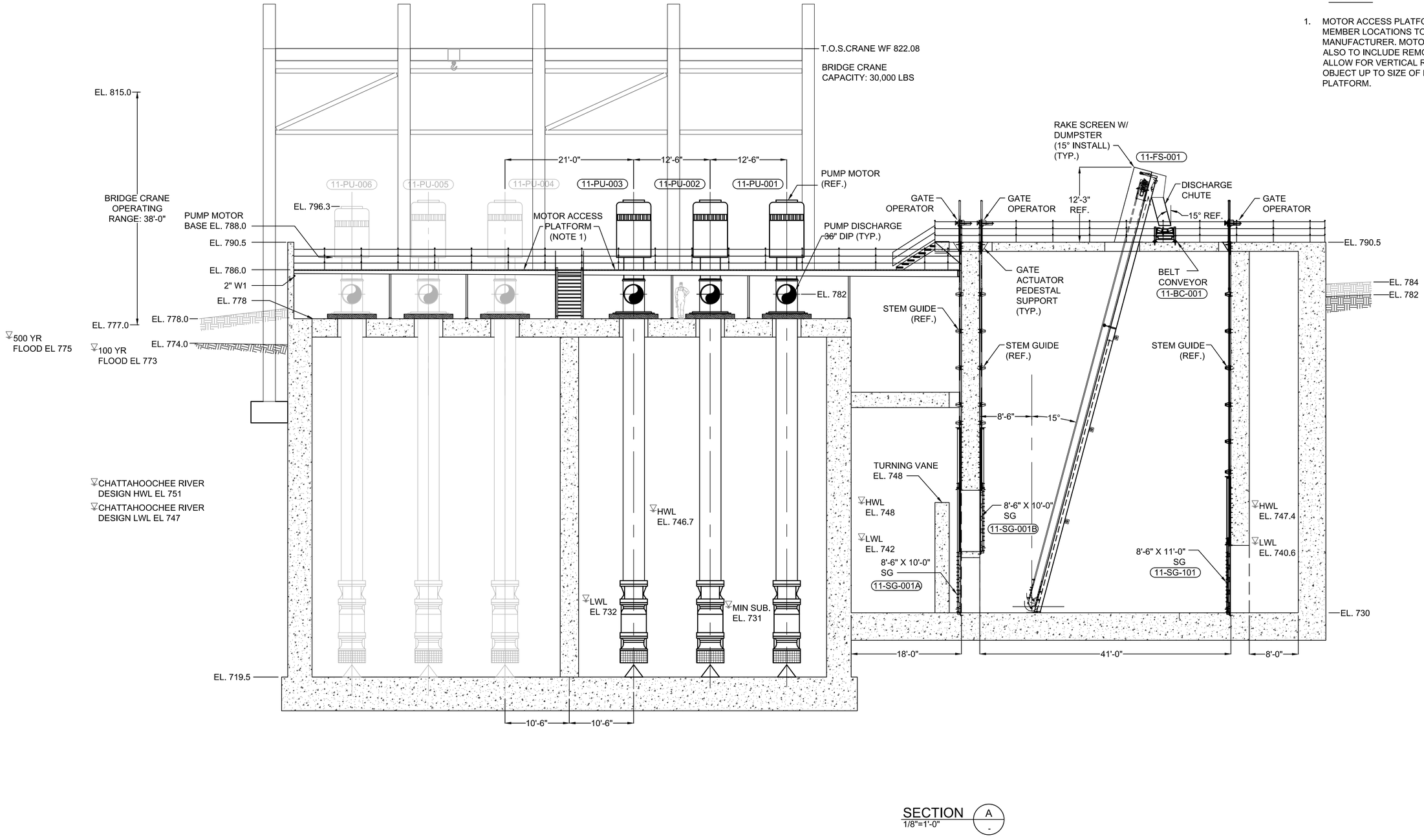
PUMP STATION
PLAN

DRAWING NO.
RI-PS
DP1-001
SHEET OF

ISSUED FOR BIDDING

NOTES

1. MOTOR ACCESS PLATFORM SUPPORT MEMBER LOCATIONS TO BE DETERMINED BY MANUFACTURER. MOTOR ACCESS PLATFORM ALSO TO INCLUDE REMOVABLE SECTIONS TO ALLOW FOR VERTICAL REMOVAL OF ANY OBJECT UP TO SIZE OF PUMP PAD BELOW PLATFORM.



SECTION A
1/8"=1'-0"

P:\City of Atlanta – Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DP2-001.dwg, PRINTED BY: Hodyn.Barnes ON Thu, Dec 05 2019 AT 8:55 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED NO. 25039 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

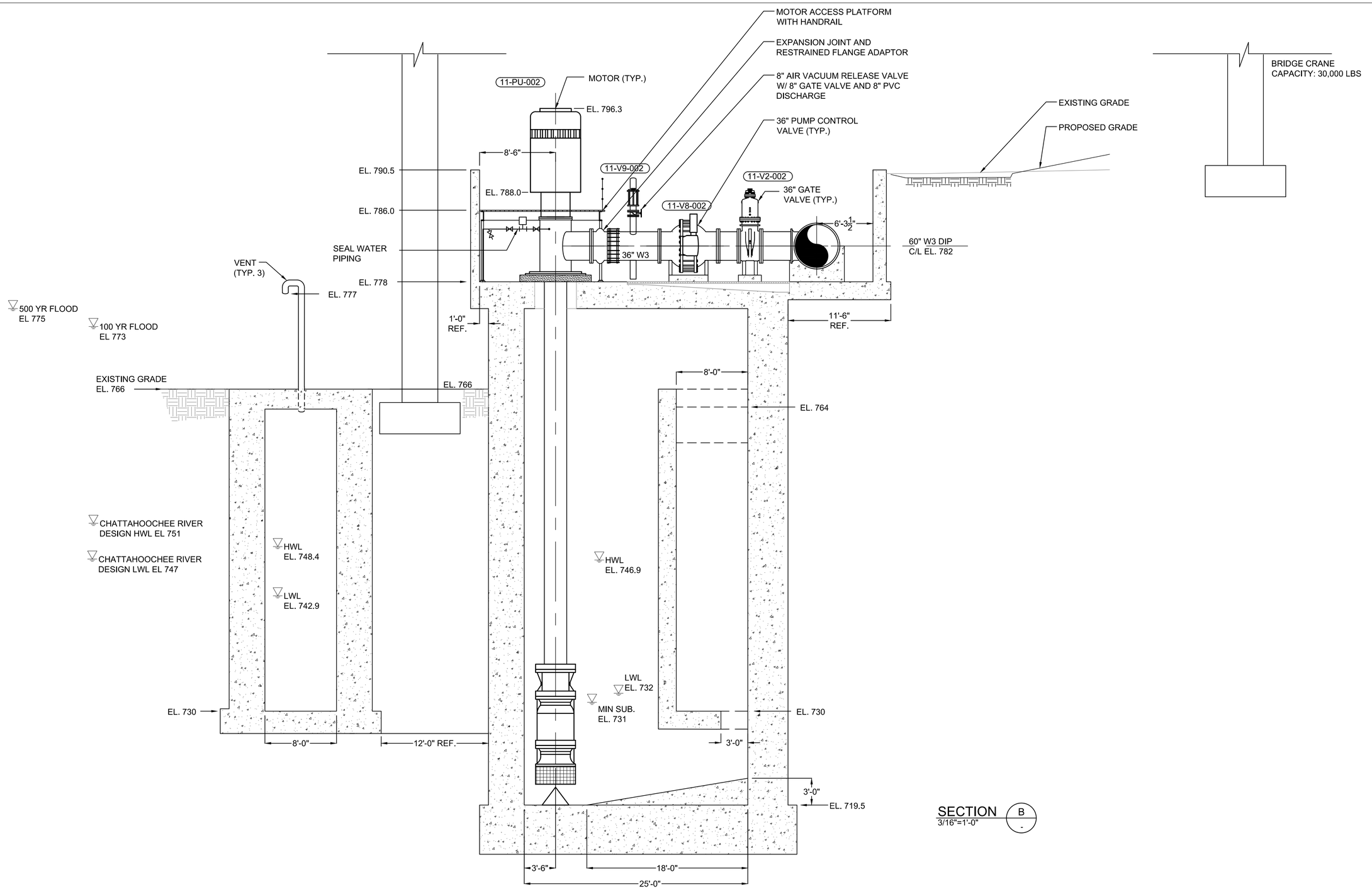
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

PUMP STATION
SECTION

DRAWING NO.
RI-PS
DP2-001
SHEET OF

ISSUED FOR BIDDING



SECTION B
3/16"=1'-0"

P:\City of Atlanta - Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DP2-002.dwg, PRINTED BY: HodynBornes ON Thu, Dec 05 2019 AT 8:56 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGE A.H. REGISTERED No. 26589 PROFESSIONAL ENGINEER 09/27/19 GEORGE A.H.

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

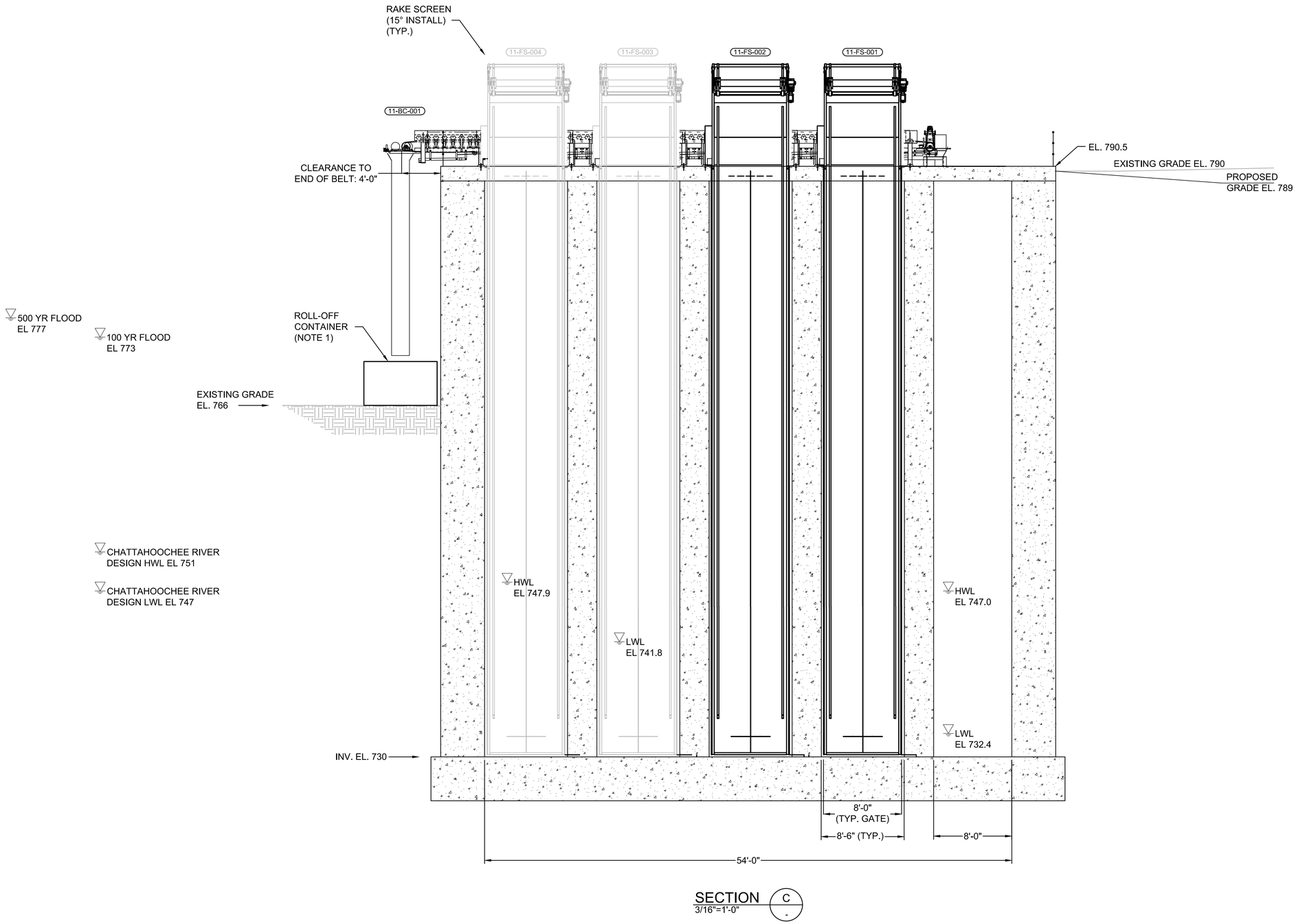
PUMP STATION
SECTION

DRAWING NO.
RI-PS
DP2-002
SHEET OF

ISSUED FOR BIDDING

NOTES:

1. ROLL-OFF CONTAINER PROVIDED BY OTHERS.



SECTION C
3/16"=1'-0"

P:\City of Atlanta – Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DP2-003.dwg, PRINTED BY: Hodyn.Barnes ON Thu, Dec 05 2019 AT 8:56 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED NO. 29888 PROFESSIONAL ENGINEER GEORGE A.Y. 09/27/19

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

PUMP STATION
SECTION

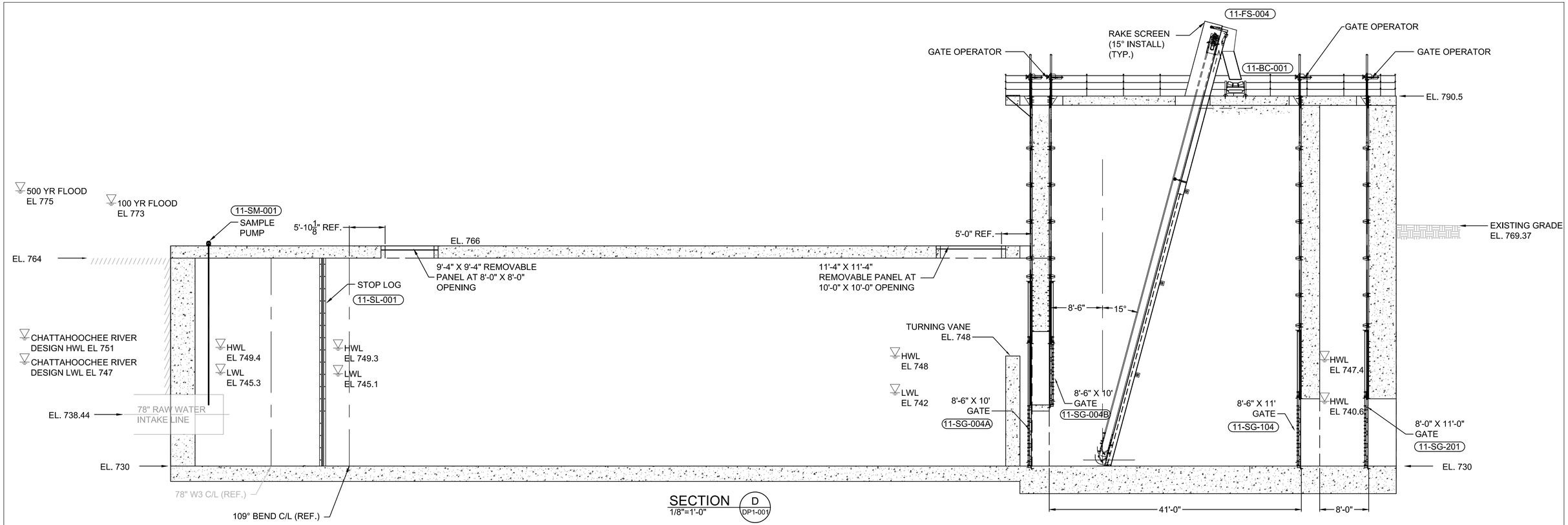
DRAWING NO.

RI-PS

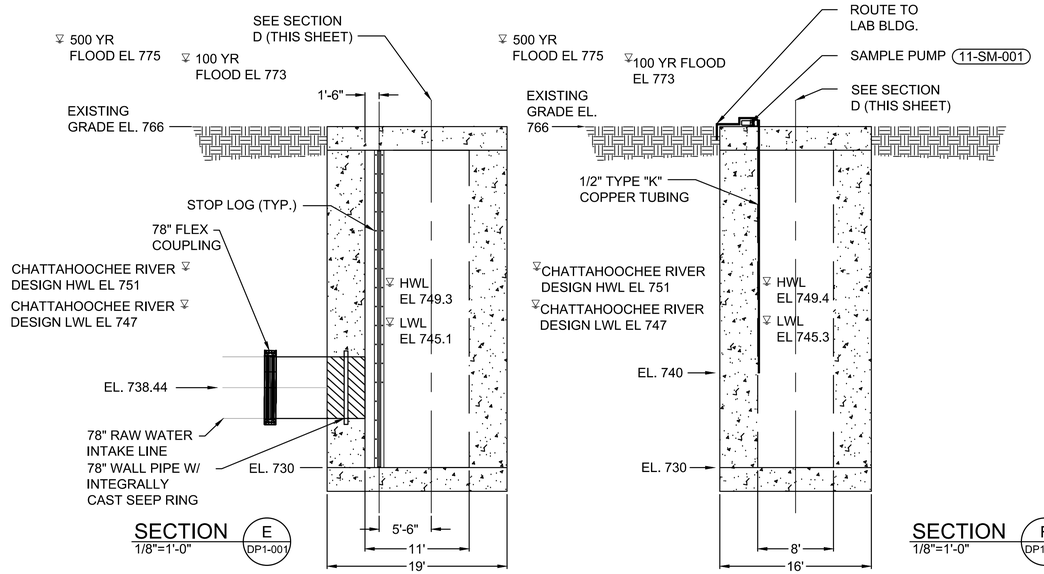
DP2-003

SHEET OF

ISSUED FOR BIDDING

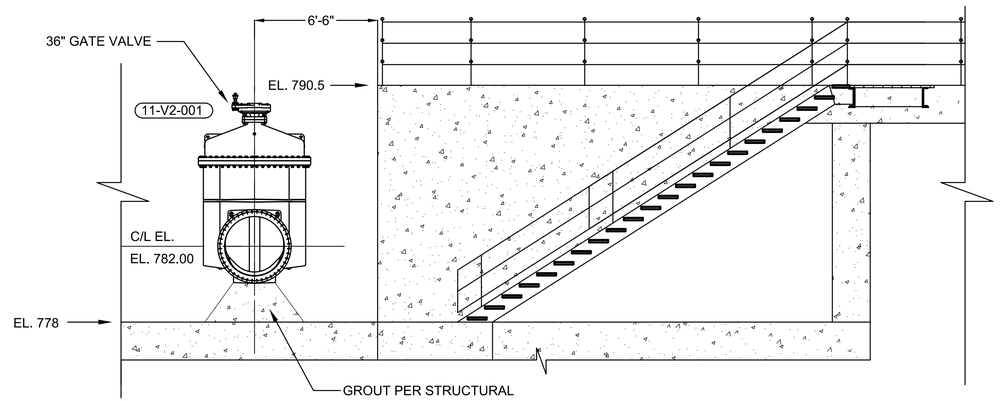


SECTION D
1/8"=1'-0"
DP1-001



SECTION E
1/8"=1'-0"
DP1-001

SECTION F
1/8"=1'-0"
DP1-001



SECTION G
1/4"=1'-0"
DP1-001

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 25089 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.H.

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

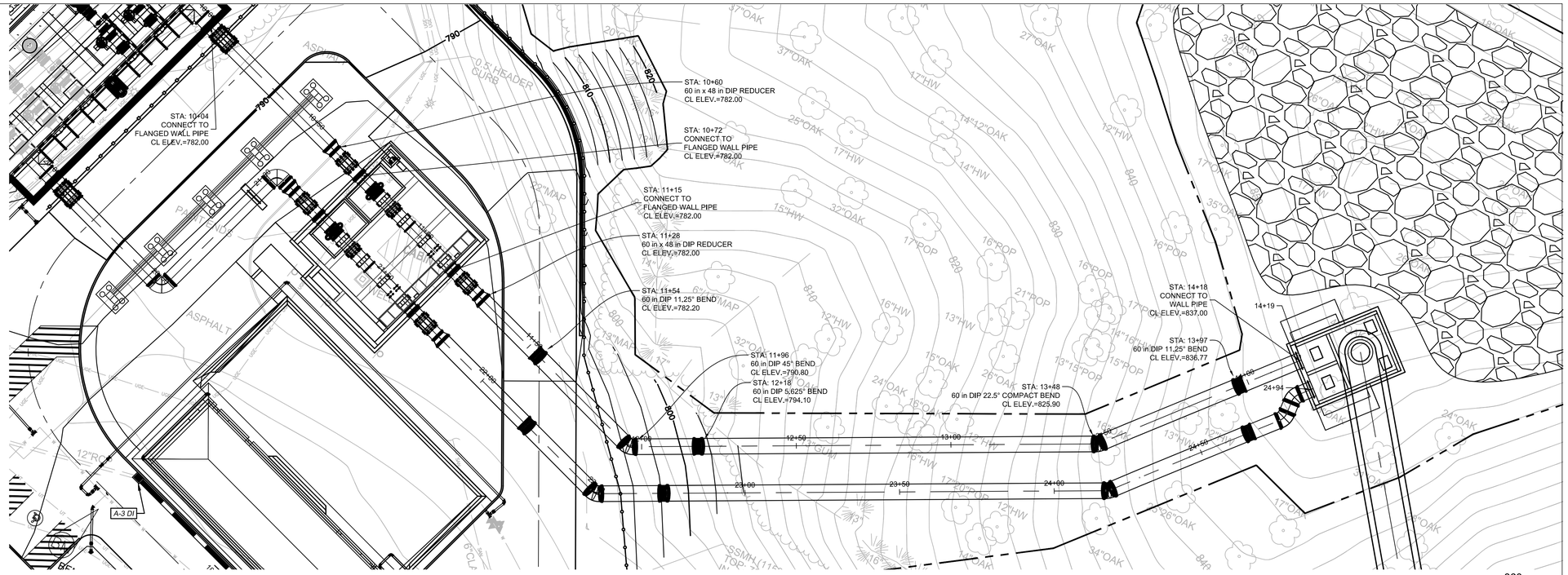
PUMP STATION
SECTION

DRAWING NO.
RI-PS
DP2-004
SHEET OF

ISSUED FOR BIDDING

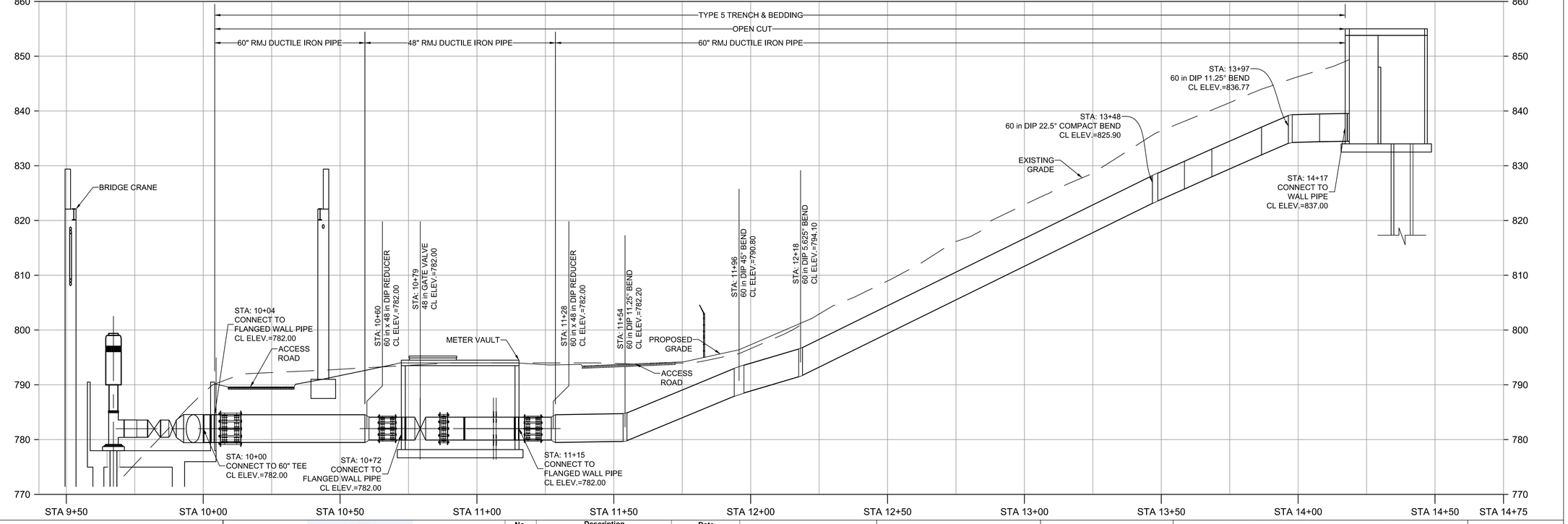
NOTES:

1. FINAL ALIGNMENT OF THE PROPOSED 60-INCH RAW WATER MAIN MAY ALTER PENDING VERTICAL UTILITY DATA.
2. SURVEY IS SUPPLEMENTED BY ADDITIONAL INFORMATION AS RECEIVED FROM CITY OF ATLANTA GIS AND AS-BUILTS. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
3. CONNECTIONS TO EXISTING TEES AND SERVICE CONNECTIONS MAY REQUIRE ADDITIONAL FITTINGS NOT SPECIFIED HEREON. ADDITIONAL INTERCONNECTIONS MAY BE PRESENT, THOUGH NOT DEPICTED HERE, AND SHALL BE RE-ESTABLISHED.
4. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS WHEN WORKING WITHIN THE IMMEDIATE VICINITY OF POWER POLES, POWER LINES, ETC.
5. YARD PIPING SHALL MAINTAIN EIGHTEEN (18) INCHES VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES, TWENTY-FOUR (24) INCHES FROM ANY EXISTING GAS MAIN GREATER THAN TWO (2) INCHES, AND THIRTY-SIX (36) INCHES FROM ANY EXISTING PERPENDICULAR CROSSING OF GRAVITY AND FORCE MAINS. (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.)



20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 25089 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.J.V

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING
PLAN & PROFILE

DRAWING NO.
RI-PS
DS1-001
SHEET OF

ISSUED FOR BIDDING

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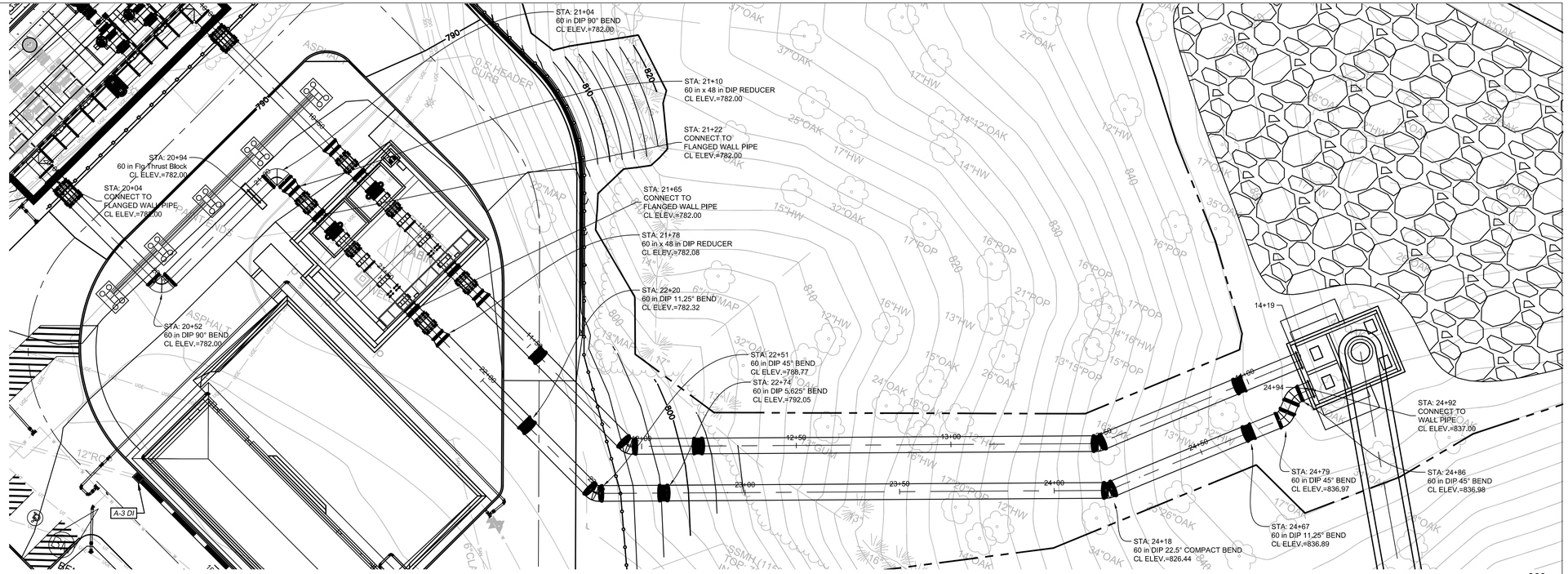
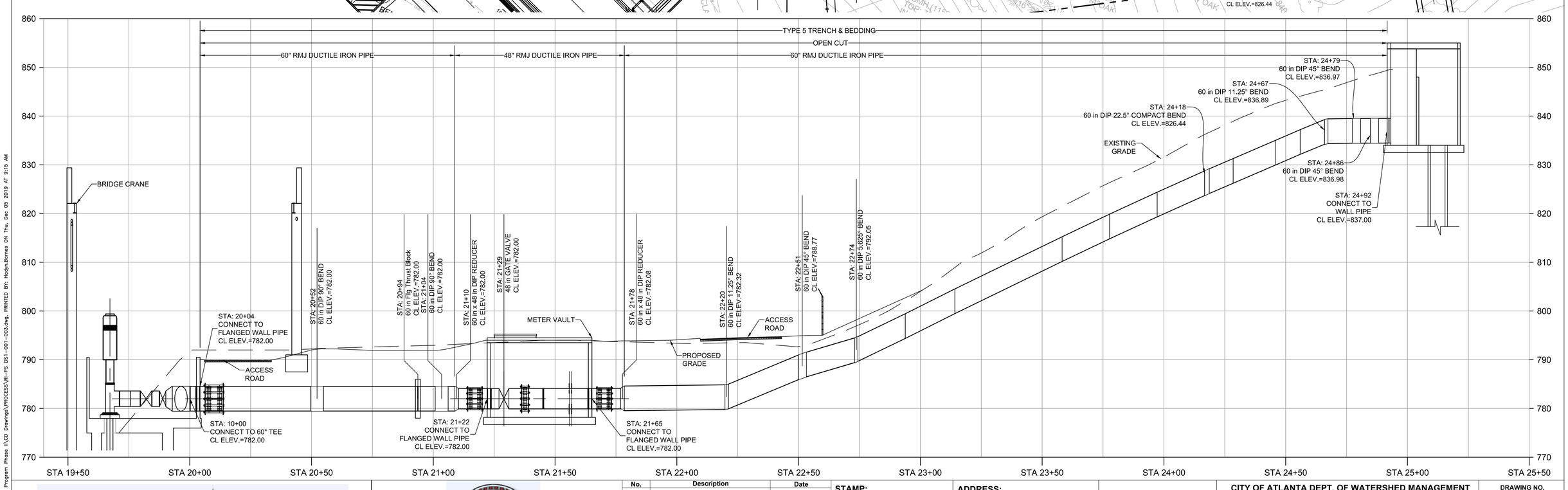
NOTES:

1. FINAL ALIGNMENT OF THE PROPOSED 60-INCH RAW WATER MAIN MAY ALTER PENDING VERTICAL UTILITY DATA.
2. SURVEY IS SUPPLEMENTED BY ADDITIONAL INFORMATION AS RECEIVED FROM CITY OF ATLANTA GIS AND AS-BUILTS. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
3. CONNECTIONS TO EXISTING TEES AND SERVICE CONNECTIONS MAY REQUIRE ADDITIONAL FITTINGS NOT SPECIFIED HEREON. ADDITIONAL INTERCONNECTIONS MAY BE PRESENT, THOUGH NOT DEPICTED HERE, AND SHALL BE RE-ESTABLISHED.
4. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS WHEN WORKING WITHIN THE IMMEDIATE VICINITY OF POWER POLES, POWER LINES, ETC.
5. YARD PIPING SHALL MAINTAIN EIGHTEEN (18) INCHES VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES, TWENTY-FOUR (24) INCHES FROM ANY EXISTING GAS MAIN GREATER THAN TWO (2) INCHES, AND THIRTY-SIX (36) INCHES FROM ANY EXISTING PERPENDICULAR CROSSING OF GRAVITY AND FORCE MAINS. (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.)

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.





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BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 24859 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING
PLAN & PROFILE

DRAWING NO.
RI-PS
DS1-002
SHEET OF

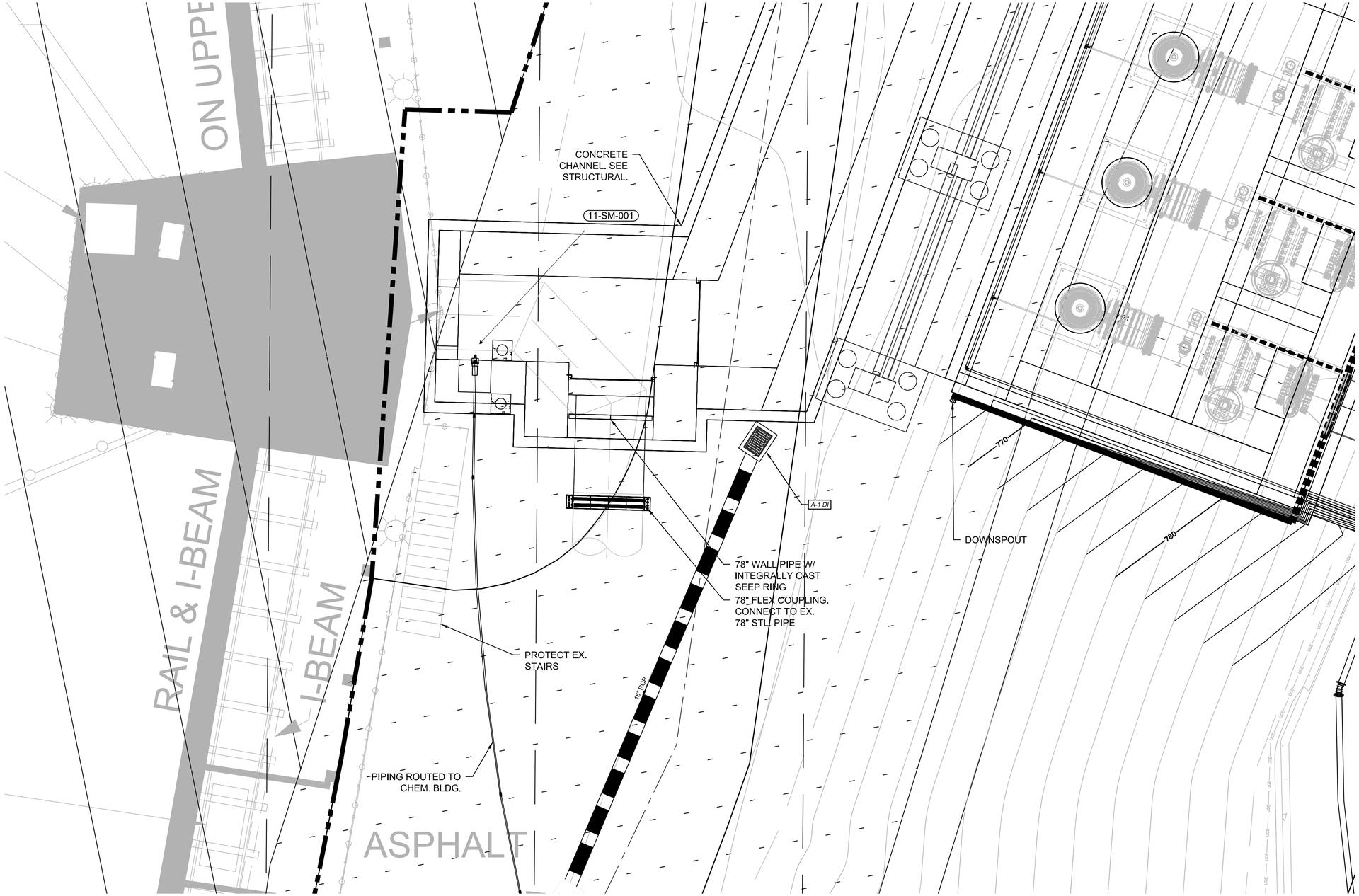
ISSUED FOR BIDDING

NOTES:

1. FINAL ALIGNMENT OF THE PROPOSED 60-INCH RAW WATER MAIN MAY ALTER PENDING VERTICAL UTILITY DATA.
2. SURVEY IS SUPPLEMENTED BY ADDITIONAL INFORMATION AS RECEIVED FROM CITY OF ATLANTA GIS AND AS-BUILTS. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
3. CONNECTIONS TO EXISTING TEES AND SERVICE CONNECTIONS MAY REQUIRE ADDITIONAL FITTINGS NOT SPECIFIED HEREON. ADDITIONAL INTERCONNECTIONS MAY BE PRESENT, THOUGH NOT DEPICTED HERE, AND SHALL BE RE-ESTABLISHED.
4. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS WHEN WORKING WITHIN THE IMMEDIATE VICINITY OF POWER POLES, POWER LINES, ETC.
5. YARD PIPING SHALL MAINTAIN EIGHTEEN (18) INCHES VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES, TWENTY-FOUR (24) INCHES FROM ANY EXISTING GAS MAIN GREATER THAN TWO (2) INCHES, AND THIRTY-SIX (36) INCHES FROM ANY EXISTING PERPENDICULAR CROSSING OF GRAVITY AND FORCE MAINS. (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.)

-5 0 2.5 5 10

(IN FEET)
1 inch = 5 ft.



CONNECTION AT RIVER INTAKE (1)
SCALE: 1" = 5-0"

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 26889 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.H.

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

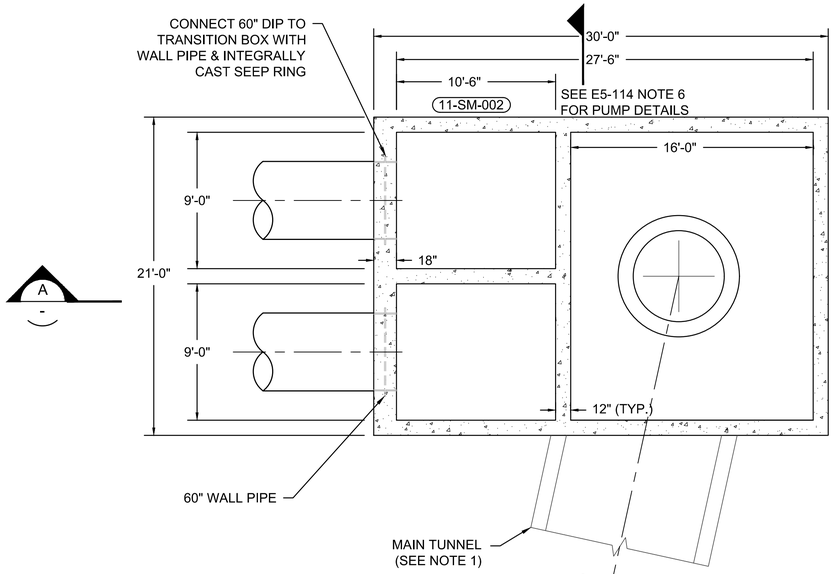
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

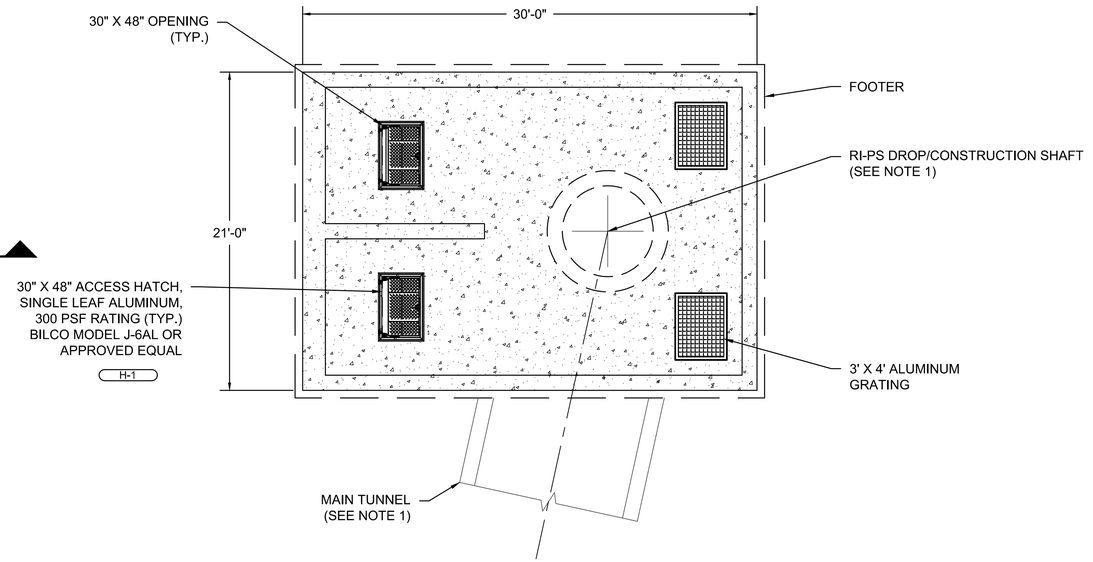
RIVER INTAKE PUMP STATION

YARD PIPING
DETAILS

DRAWING NO.
RI-PS
DS1-003
SHEET OF

ISSUED FOR BIDDING





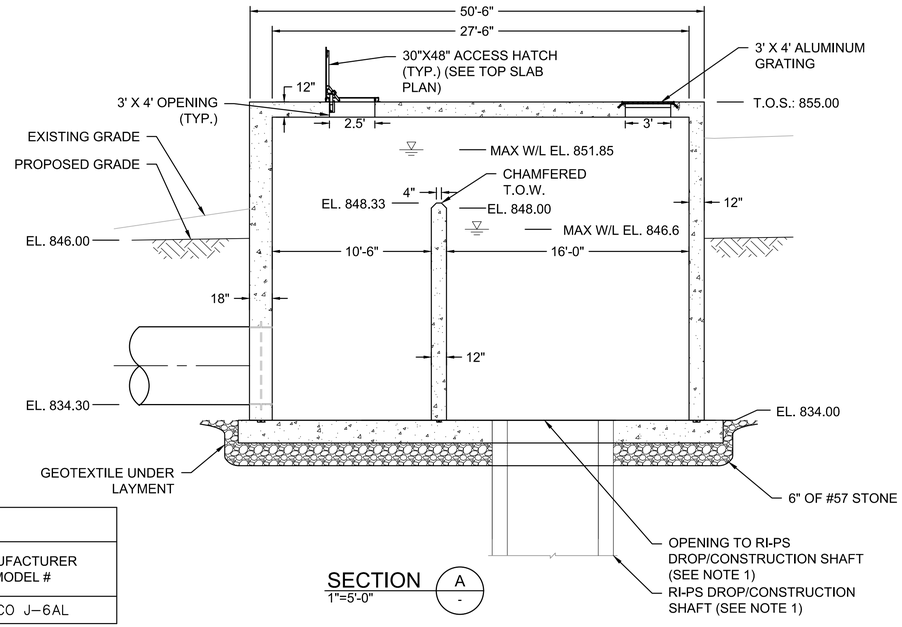
B
-

PLAN
SCALE: 1" = 5'-0"

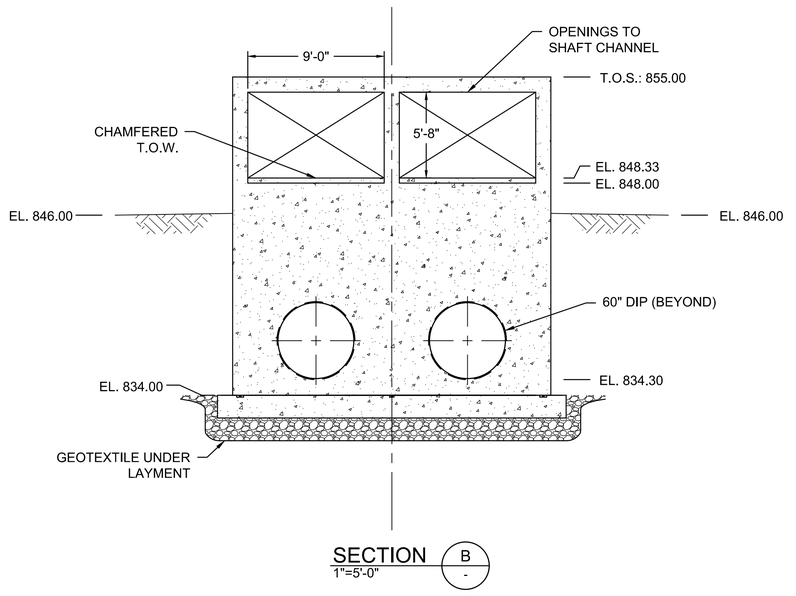
NOTES

1. STEEL CASING AND CONCRETE BACKFILL OF THE 72" DROPSHAFT IS TO BE CUT DOWN, WITH EXCESS REMOVED AND DISPOSED OF OFFSITE BY THE CONTRACTOR. CONTRACTOR SHALL CUT CASING AND BACKFILL SO FLOOR OF TRANSITION BOX IS AS INDICATED. MAIN TUNNEL AND DROP SHAFT WERE INSTALLED BY OTHERS UNDER PHASE 1 EXTENSION.

TOP SLAB PLAN
SCALE: 1" = 5'-0"



SECTION A
1"=5'-0"



SECTION B
1"=5'-0"

ACCESS HATCH SCHEDULE			
TAG NUMBER	SIZE (INCHES)		MANUFACTURER MODEL #
	WIDTH	LENGTH	
H-1	30	48	BILCO J-6AL

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED NO. 25039 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

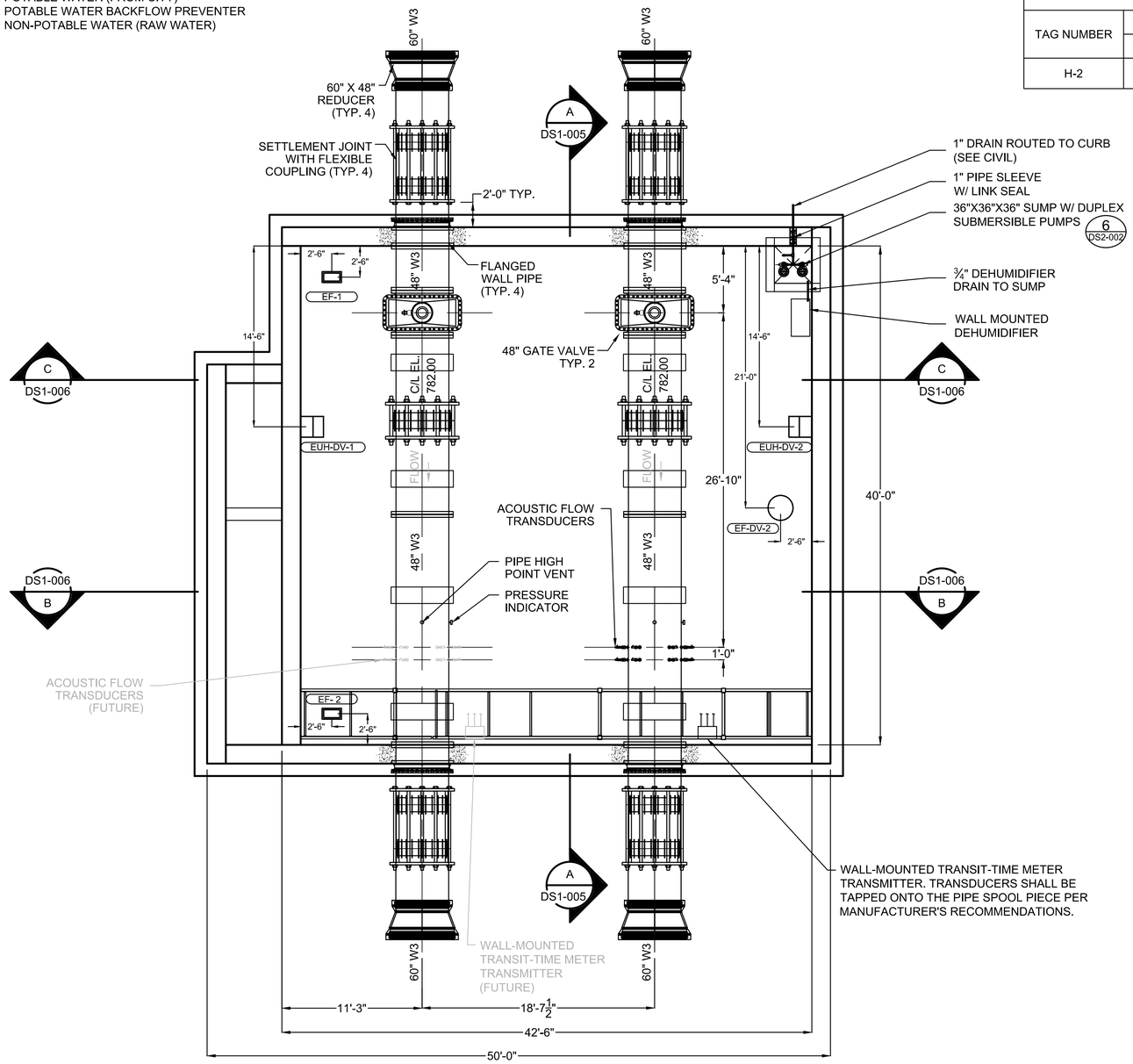
RIVER INTAKE PUMP STATION
TUNNEL SHAFT
TRANSITION BOX

DRAWING NO.
RI-PS
DS1-004
SHEET OF

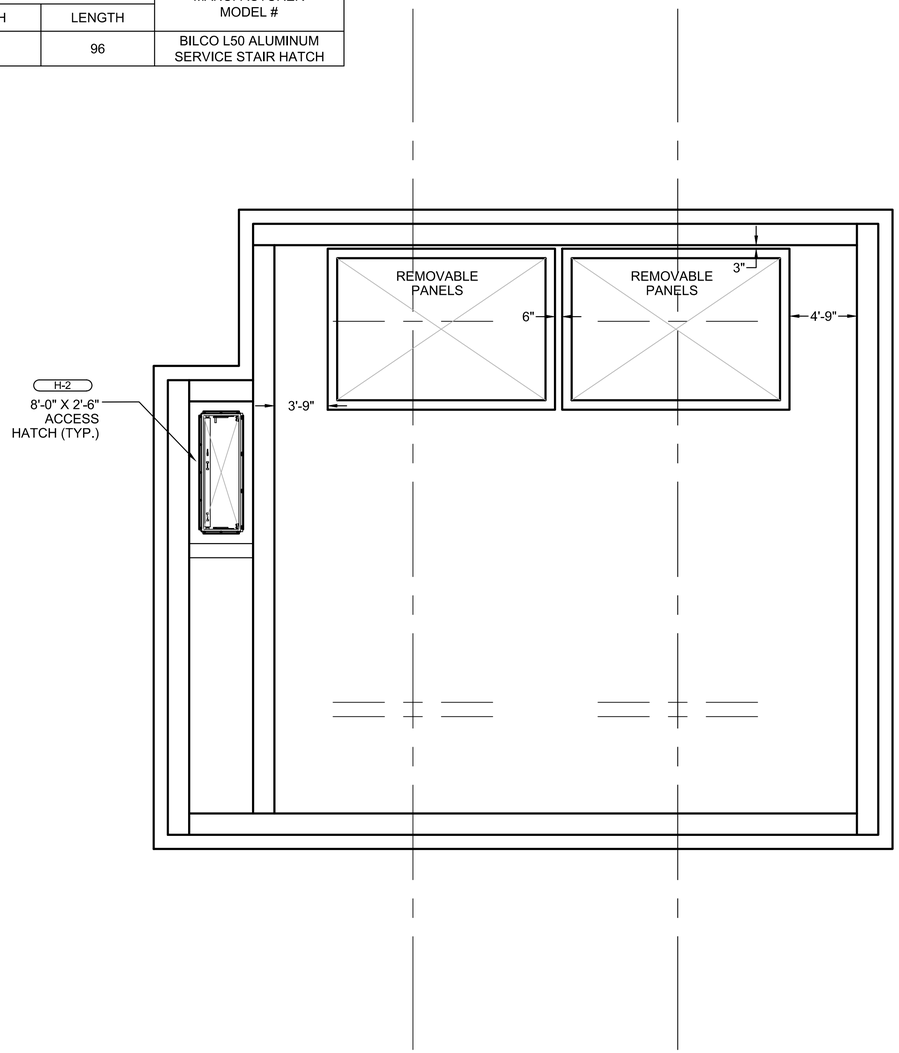
ISSUED FOR BIDDING

ABBREVIATIONS
W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTER
W3: NON-POTABLE WATER (RAW WATER)

ACCESS HATCH SCHEDULE			
TAG NUMBER	SIZE (INCHES)		MANUFACTURER MODEL #
	WIDTH	LENGTH	
H-2	30	96	BILCO L50 ALUMINUM SERVICE STAIR HATCH



PLAN
SCALE: 3/16" = 1'-0"



ROOF PLAN
SCALE: 3/16" = 1'-0"

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGIA REGISTERED No. 25689 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.H.

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

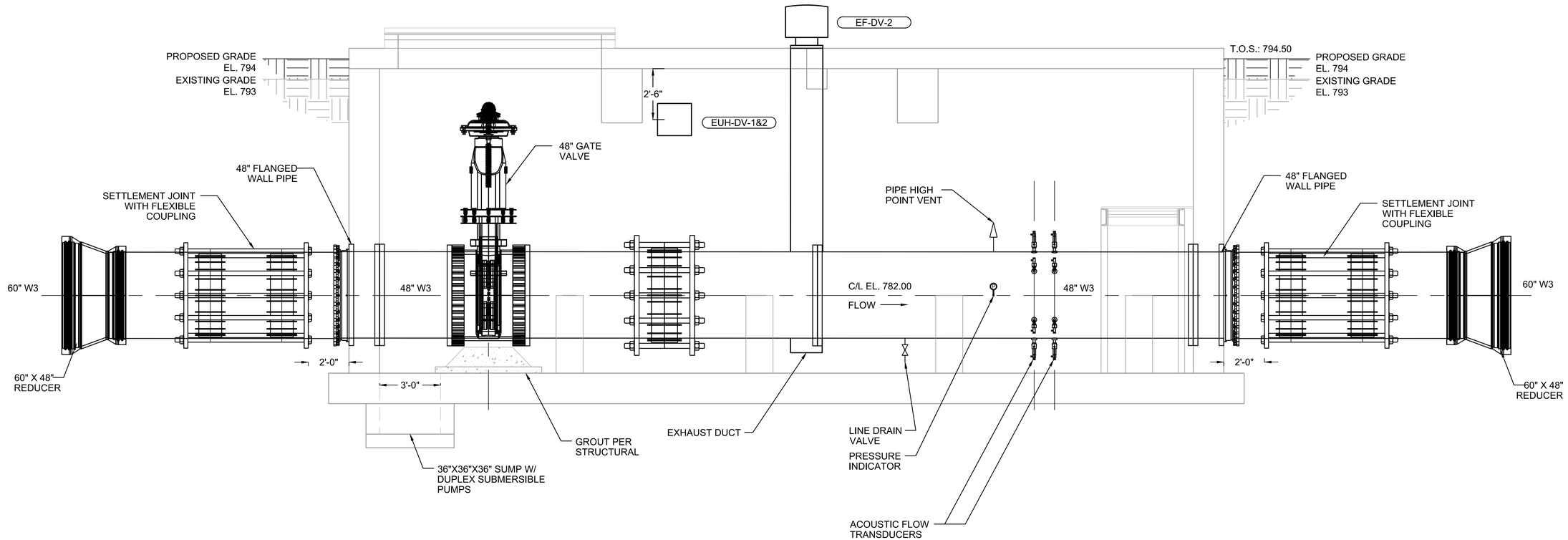
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
METER VAULT
PLAN

DRAWING NO.
RI-PS
DS1-005
SHEET OF

ISSUED FOR BIDDING

P:\City of Atlanta - Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DS1-005.dwg, PRINTED BY: Hadyn.Barnes ON Thu, Dec 05 2019 AT 10:01 AM

ABBREVIATIONS
W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTER
W3: NON-POTABLE WATER (RAW WATER)



SECTION A
3/8"=1'-0" DS1-004

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGIA REGISTERED No. 26689 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.V.

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

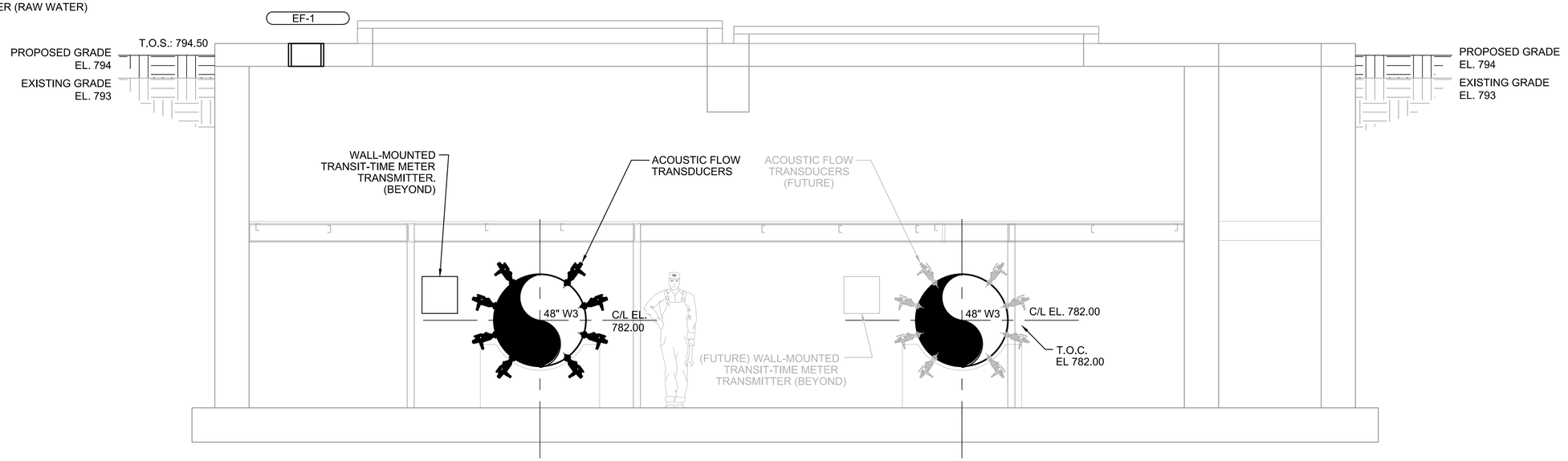
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
METER VAULT
SECTION

DRAWING NO.
RI-PS
DS1-006
SHEET OF

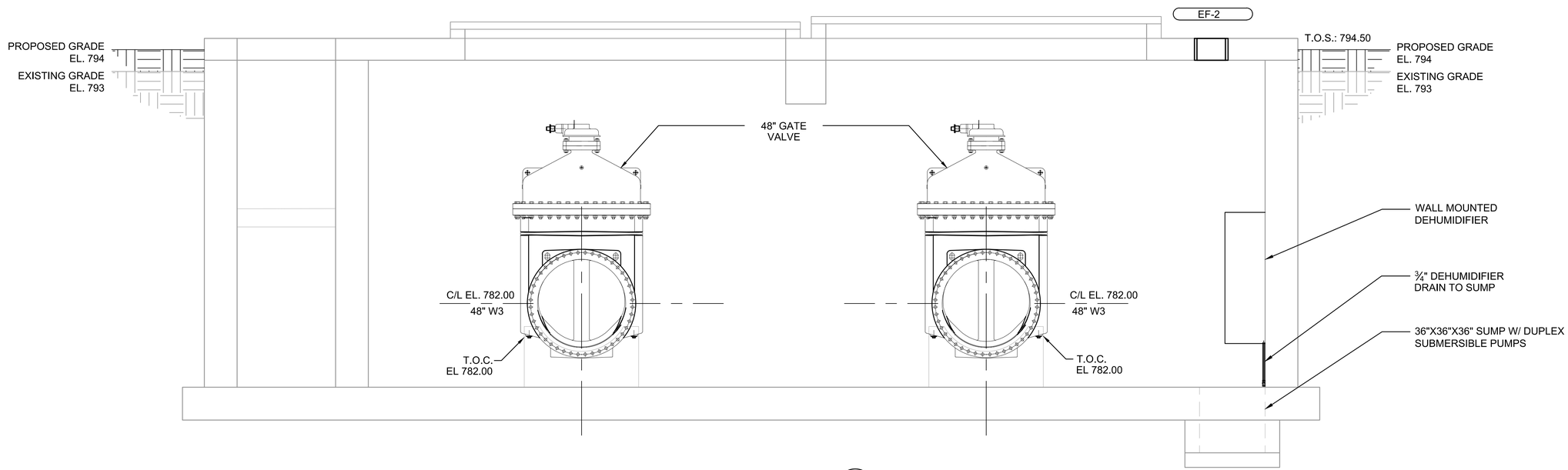
ISSUED FOR BIDDING

P:\City of Atlanta - Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DS1-006.dwg, PRINTED BY: Hadyn.Barnes ON Thu, Dec 05 2019 AT 9:19 AM

ABBREVIATIONS
W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTER
W3: NON-POTABLE WATER (RAW WATER)



SECTION B
3/8"=1'-0"
DS1-004



SECTION C
3/8"=1'-0"
DS1-004

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGIA REGISTERED NO. 26039 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.T.

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

METER VAULT
SECTION

DRAWING NO.
RI-PS
DS1-007
SHEET OF

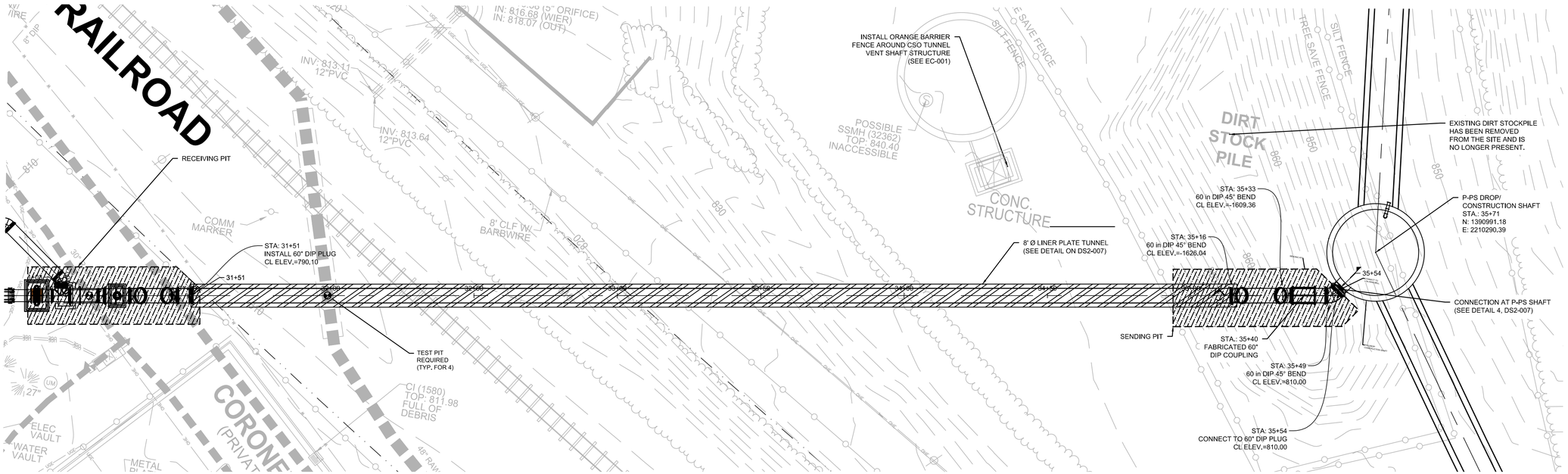
ISSUED FOR BIDDING

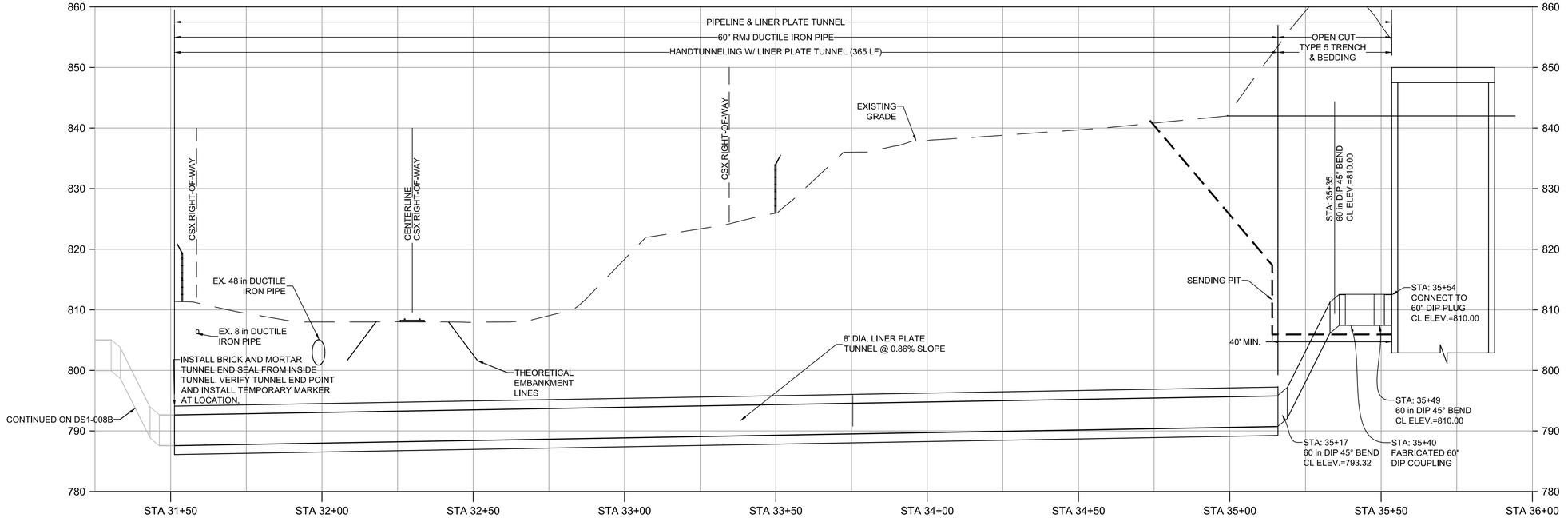
20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

NOTES:

1. FINAL ALIGNMENT OF THE PROPOSED 60-INCH RAW WATER MAIN MAY ALTER PENDING VERTICAL UTILITY DATA.
2. SURVEY IS SUPPLEMENTED BY ADDITIONAL INFORMATION AS RECEIVED FROM CITY OF ATLANTA GIS AND AS-BUILTS. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
3. CONNECTIONS TO EXISTING TEES AND SERVICE CONNECTIONS MAY REQUIRE ADDITIONAL FITTINGS NOT SPECIFIED HEREON. ADDITIONAL INTERCONNECTIONS MAY BE PRESENT, THOUGH NOT DEPICTED HERE, AND SHALL BE RE-ESTABLISHED.
4. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS WHEN WORKING WITHIN THE IMMEDIATE VICINITY OF POWER POLES, POWER LINES, ETC.
5. YARD PIPING SHALL MAINTAIN EIGHTEEN (18) INCHES VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES, TWENTY-FOUR (24) INCHES FROM ANY EXISTING GAS MAIN GREATER THAN TWO (2) INCHES, AND THIRTY-SIX (36) INCHES FROM ANY EXISTING PERPENDICULAR CROSSING OF GRAVITY AND FORCE MAINS. (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.)
6. SEE SEQUENCING NOTES, G-004, NOTE 3.G.GA FOR SEQUENCING RESTRICTIONS AT THE P-PS DROP/CONSTRUCTION SHAFT SITE.





BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGE A. JAY
REGISTERED
No. 25689
PROFESSIONAL
09/27/19
ENGINEER
GEORGE A.JAY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	J.J.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING
PLAN & PROFILE

DRAWING NO.
RI-PS
DS1-008A
SHEET OF

ISSUED FOR BIDDING

P:\City of Atlanta - Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DS1-008A.dwg, PRINTED BY: Hadyn.Barnes ON Thu, Dec 05 2019 AT 9:33 AM

NOTES:

1. FINAL ALIGNMENT OF THE PROPOSED 60-INCH RAW WATER MAIN MAY ALTER PENDING VERTICAL UTILITY DATA.
2. SURVEY IS SUPPLEMENTED BY ADDITIONAL INFORMATION AS RECEIVED FROM CITY OF ATLANTA GIS AND AS-BUILTS. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
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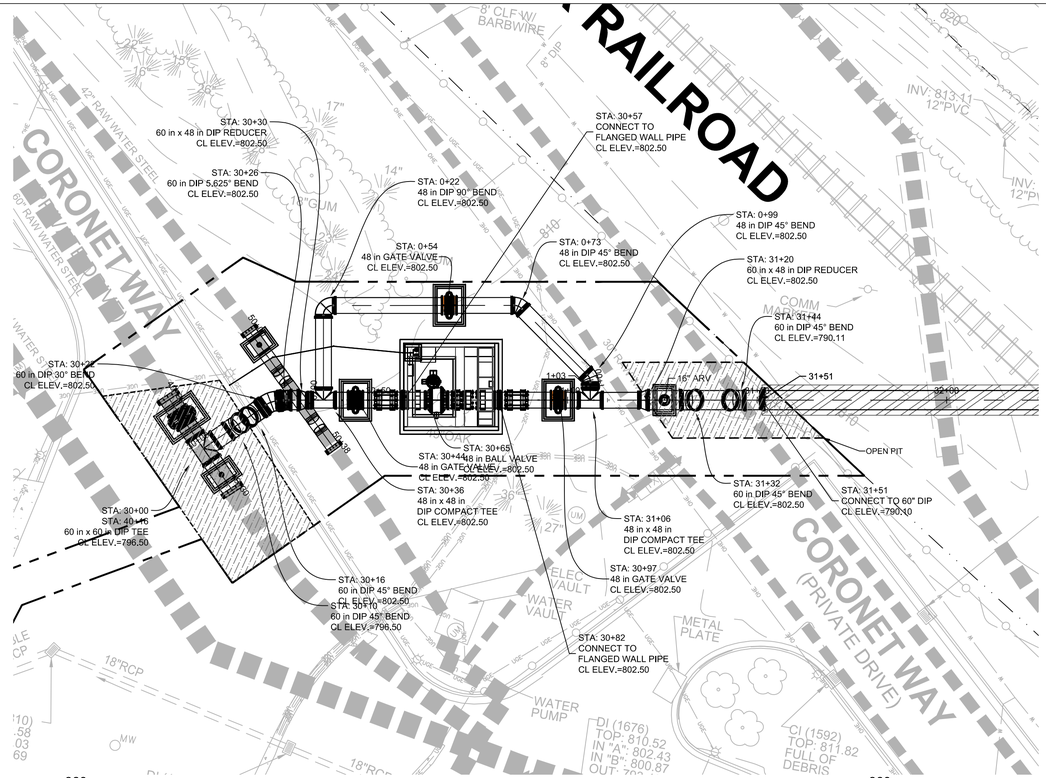
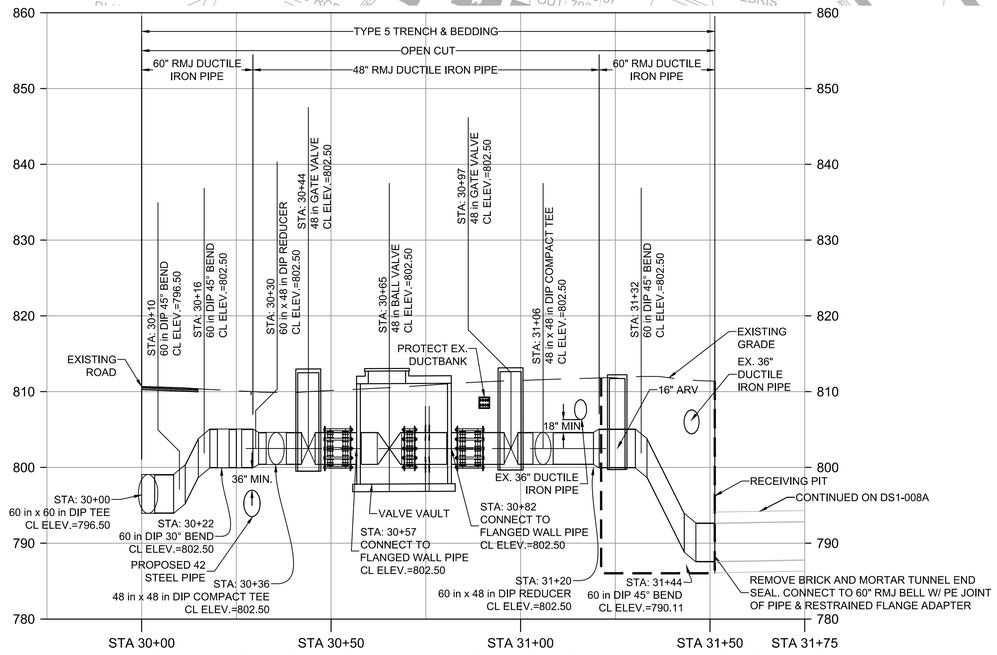
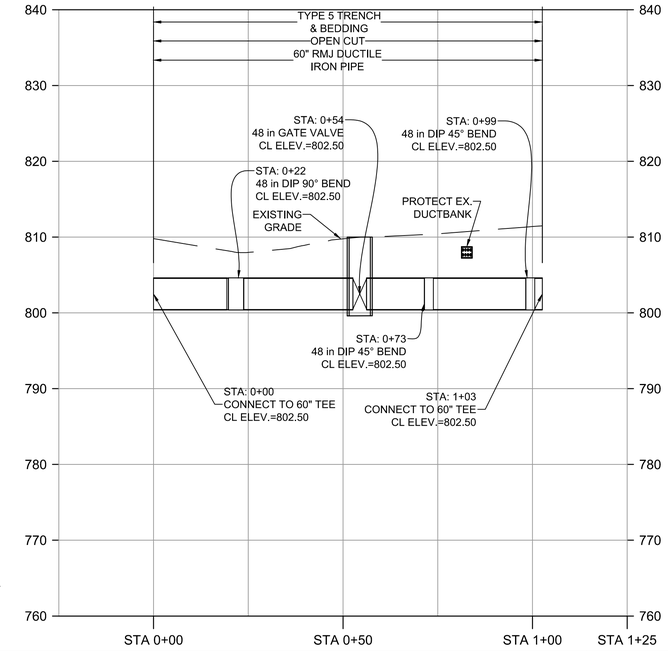
20 0 10 20 40

(IN FEET)
1 inch = 20 ft.







BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGE A. JAY
REGISTERED
No. 25689
PROFESSIONAL
09/27/19
ENGINEER
GEORGE A.JAY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING
PLAN & PROFILE

DRAWING NO.
RI-PS
DS1-008B
SHEET OF

ISSUED FOR BIDDING

NOTES:

1. FINAL ALIGNMENT OF THE PROPOSED 60-INCH RAW WATER MAIN MAY ALTER PENDING VERTICAL UTILITY DATA.
2. SURVEY IS SUPPLEMENTED BY ADDITIONAL INFORMATION AS RECEIVED FROM CITY OF ATLANTA GIS AND AS-BUILTS. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
3. CONNECTIONS TO EXISTING TEES AND SERVICE CONNECTIONS MAY REQUIRE ADDITIONAL FITTINGS NOT SPECIFIED HEREON. ADDITIONAL INTERCONNECTIONS MAY BE PRESENT, THOUGH NOT DEPICTED HERE, AND SHALL BE RE-ESTABLISHED.
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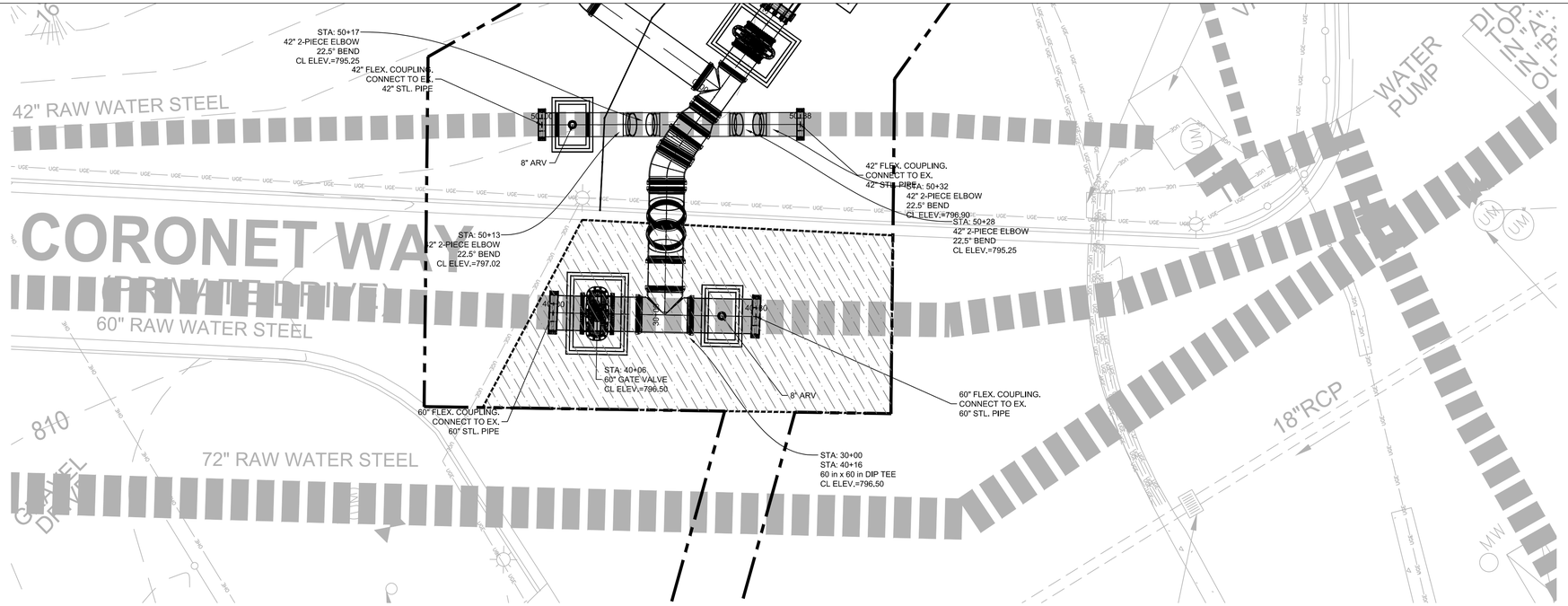
10 0 5 10 20

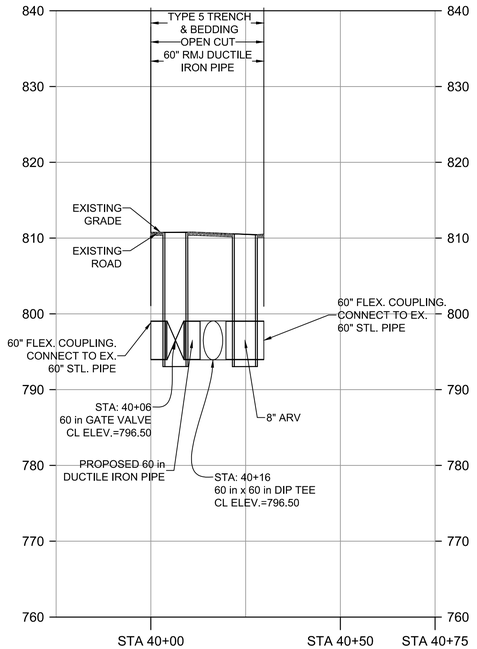
(IN FEET)
1 inch = 10 ft.

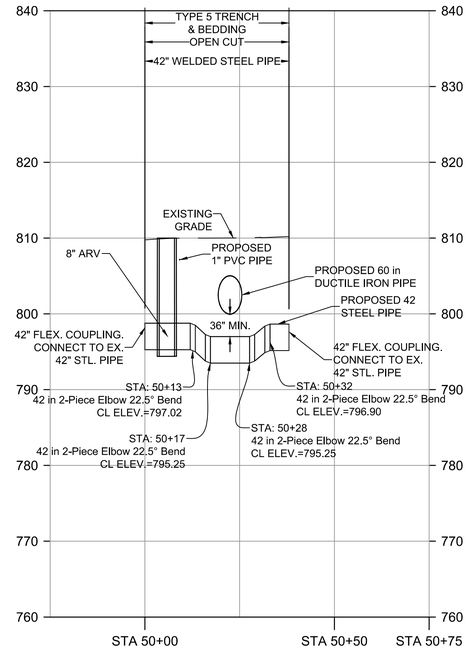


CONNECTION AT
CHATTAHOOCHEE COMPLEX

1
-

SCALE: 1" = 10-0"





BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGE A. JAY
REGISTERED
No. 25589
PROFESSIONAL
09/27/19
ENGINEER
GEORGE A.JAY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING
PLAN & PROFILE

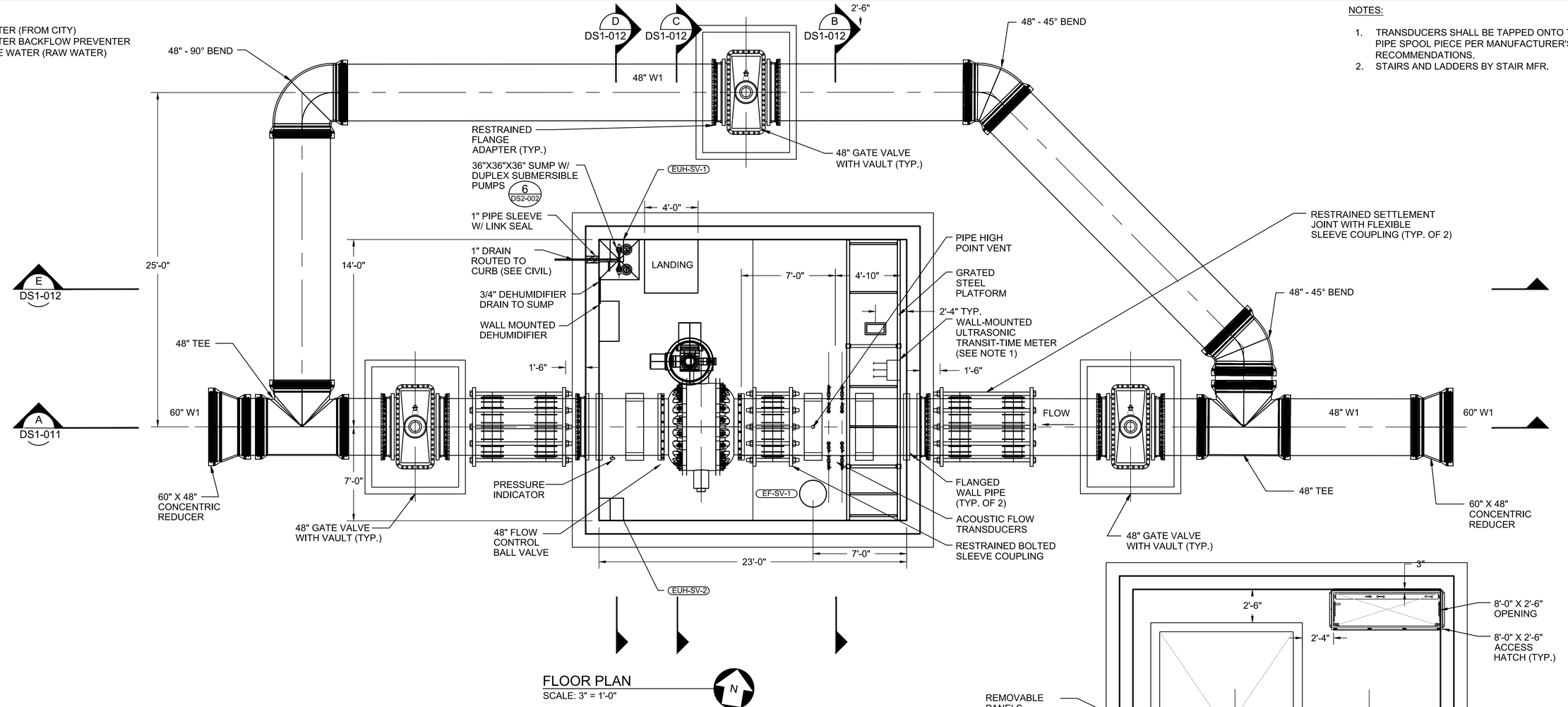
DRAWING NO.
RI-PS
DS1-009
SHEET OF

ISSUED FOR BIDDING

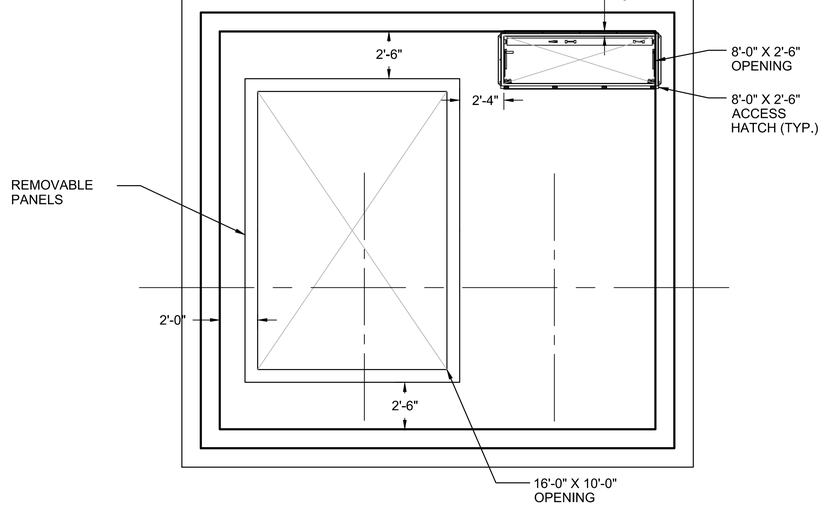
ABBREVIATIONS
W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTER
W3: NON-POTABLE WATER (RAW WATER)

NOTES:

1. TRANSDUCERS SHALL BE TAPPED ONTO THE PIPE SPOOL PIECE PER MANUFACTURER'S RECOMMENDATIONS.
2. STAIRS AND LADDERS BY STAIR MFR.



FLOOR PLAN
SCALE: 3" = 1'-0"



ROOF PLAN
SCALE: 3" = 1'-0"

ACCESS HATCH SCHEDULE			
TAG NUMBER	SIZE (INCHES)		MANUFACTURER MODEL #
	WIDTH	LENGTH	
H-3	30	96	BILCO L50 ALUMINUM SERVICE STAIR HATCH

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGIA REGISTERED No. 25039 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.V.

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
VALVE VAULT
PLAN

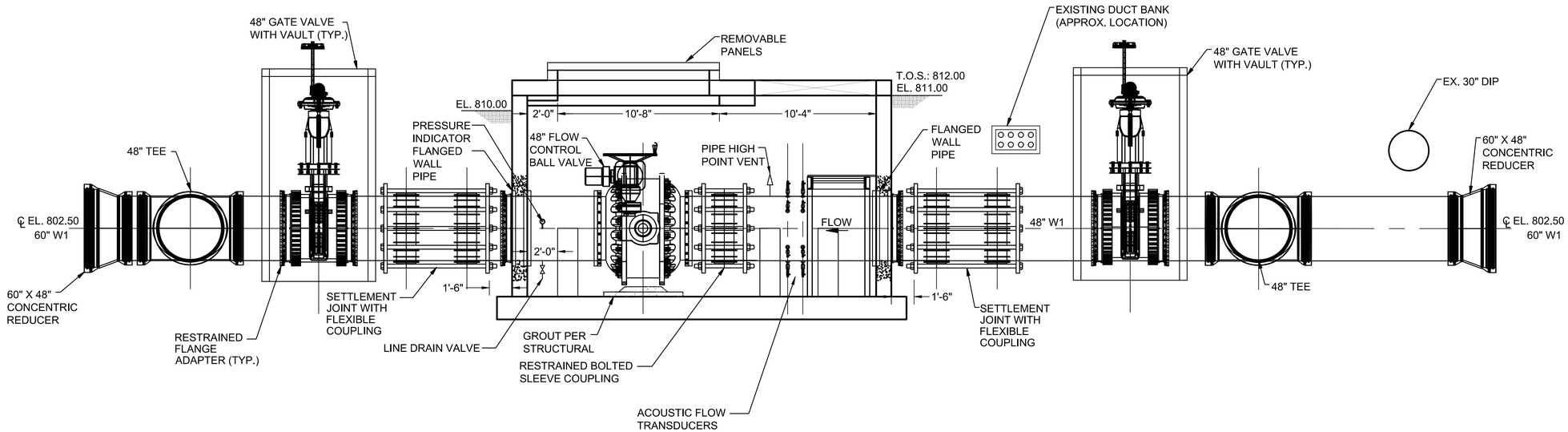
DRAWING NO.
RI-PS
DS1-010
SHEET OF

ISSUED FOR BIDDING

ABBREVIATIONS
W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTER
W3: NON-POTABLE WATER (RAW WATER)

NOTES:

1. TRANSDUCERS SHALL BE TAPPED ONTO THE PIPE SPOOL PIECE PER MANUFACTURER'S RECOMMENDATIONS.
2. STAIRS AND LADDERS BY STAIR MFR.



VAULT SECTION A-A
SCALE: 3" = 1'-0"

P:\City of Atlanta - Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DS1-010-012.dwg, PRINTED BY: Hadyn.Bornea ON Thu, Dec 05 2019 AT 9:36 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGIA REGISTERED NO. 29859 PROFESSIONAL ENGINEER 09/27/19 GEORGE AJY

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

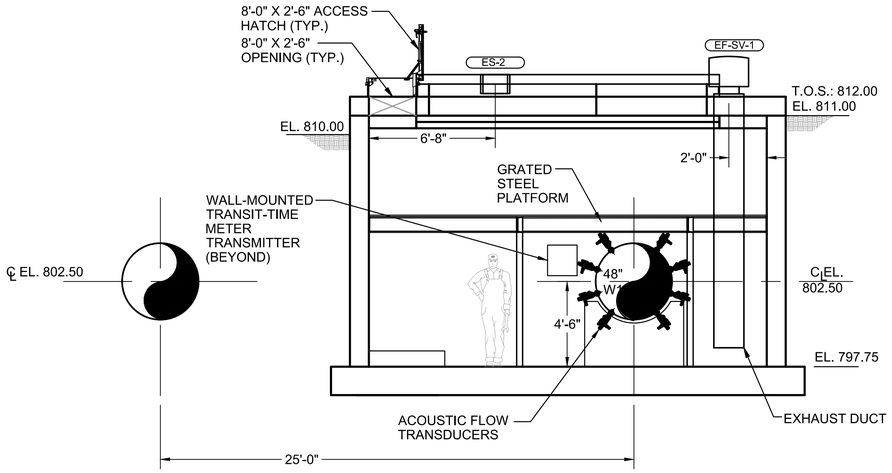
RIVER INTAKE PUMP STATION

VALVE VAULT
SECTIONS

DRAWING NO.
RI-PS
DS1-011
SHEET OF

ISSUED FOR BIDDING

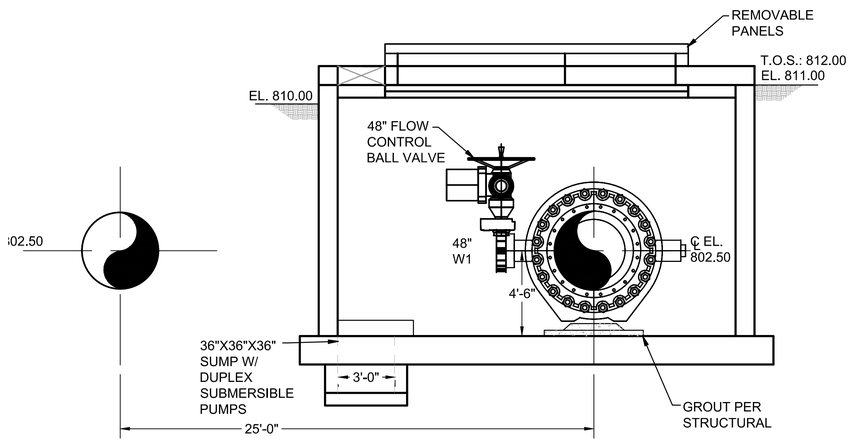
ABBREVIATIONS
W1: POTABLE WATER (FROM CITY)
W2: POTABLE WATER BACKFLOW PREVENTER
W3: NON-POTABLE WATER (RAW WATER)



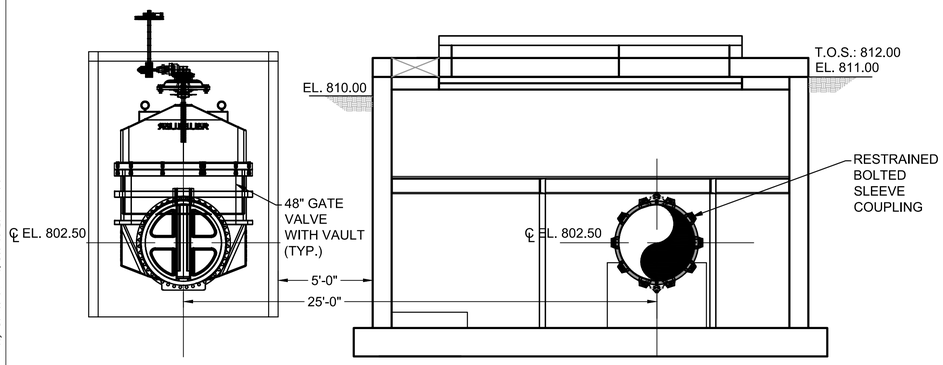
VAULT SECTION B-B
SCALE: 3" = 1'-0"

NOTES:

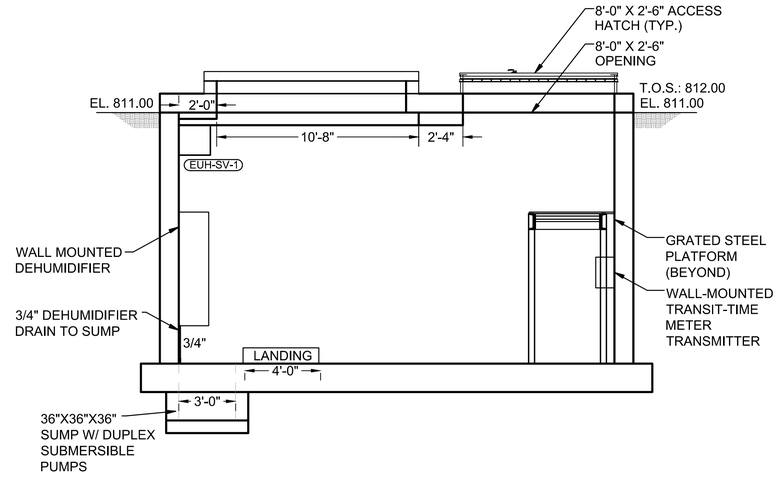
1. TRANSDUCERS SHALL BE TAPPED ONTO THE PIPE SPOOL PIECE PER MANUFACTURER'S RECOMMENDATIONS.
2. STAIRS AND LADDERS BY STAIR MFR.



VAULT SECTION C-C
SCALE: 3" = 1'-0"



VAULT SECTION D-D
SCALE: 3" = 1'-0"



VAULT SECTION E-E
SCALE: 3" = 1'-0"

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGIA REGISTERED No. 25089 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.T.

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

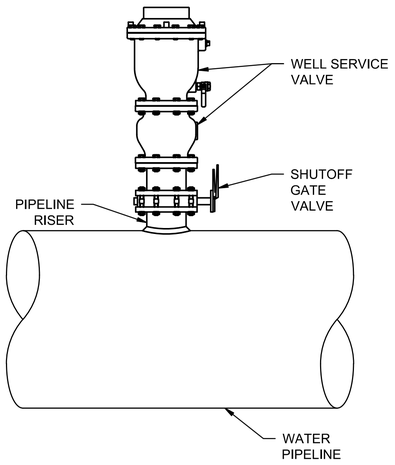
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

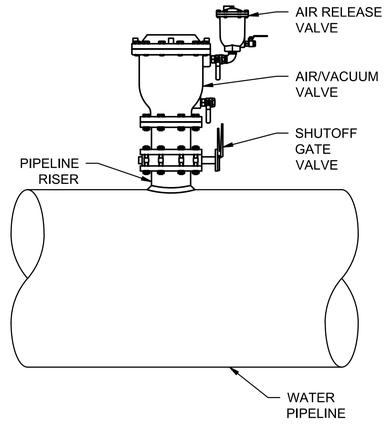
VALVE VAULT SECTION

DRAWING NO.
RI-PS
DS1-012
SHEET OF

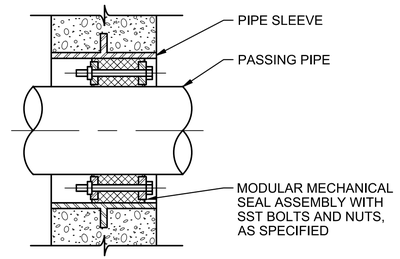
ISSUED FOR BIDDING



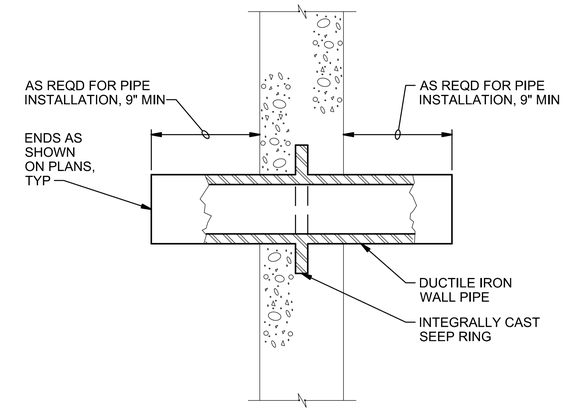
1 - WELL SERVICE AIR VALVE
NTS



2 - DUAL BODY COMBO. AIR VALVE
NTS



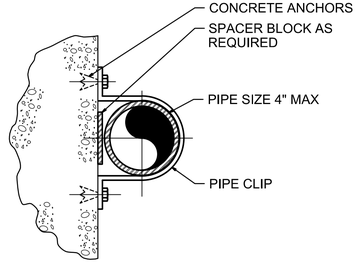
3 - WALL PIPE PENETRATION SEAL
NTS



NOTES:

1. COAT WALL PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.

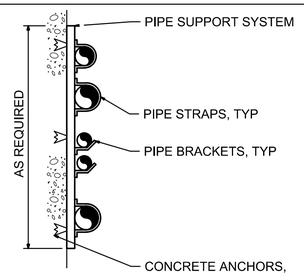
4 - DUCTILE IRON WALL PIPE
NTS



NOTES:

1. FOR VERTICAL PIPES ONLY.
2. PROVIDE PIPE PROTECTION BARRIER AS SPECIFIED. FABRICATE OVERSIZE STRAP WHERE REQUIRED.
3. STAINLESS STEEL WEDGE ANCHORS REQ'D OCCASIONALLY.
4. CATALOG STANDARD PRODUCTS ARE AVAILABLE IN LIMITED MATERIALS AND SIZES. SPECIAL MATERIALS AND SIZES REQUIRE FABRICATION TO CONFORM TO SPECIFICATION.
5. PIPE PROTECTION BARRIER MAY BE APPLIED FOR ELECTRICAL ISOLATION OF DISSIMILAR METALLIC PIPING FROM HANGER OR SUPPORT AND FOR PROTECTION OF PLASTIC PIPING FROM CLAMPING STRESSES.
6. PIPE SUPPORT PRODUCT CONFORMS TO SPECIFIED STANDARD MSS SP-58, PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN AND MANUFACTURE.

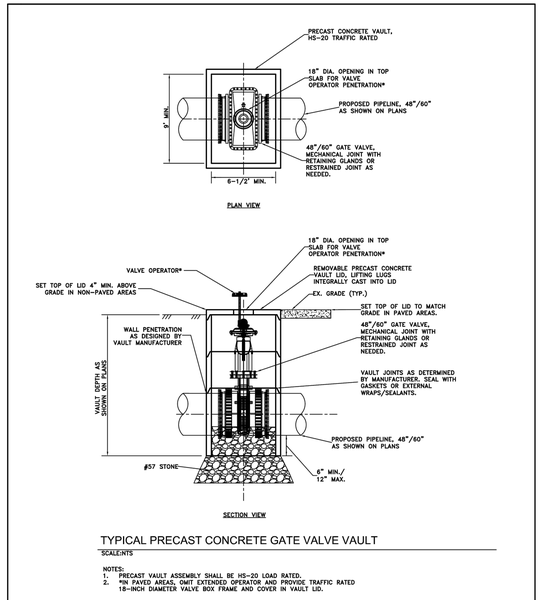
5 - TYPICAL WALL MOUNT PIPE SUPPORT
NTS



NOTES:

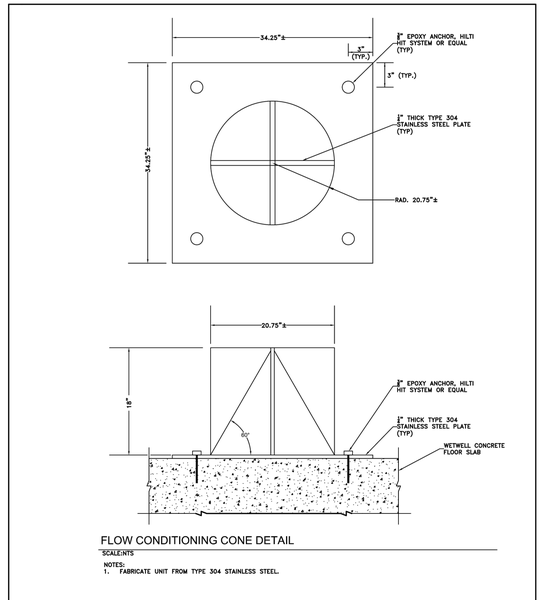
1. PROVIDE PIPE PROTECTION BARRIER AS SPECIFIED.
2. STAINLESS STEEL EXPANSION ANCHORS SOMETIMES REQUIRED. FILL IN ANCHOR SPACING.
3 CATALOG STANDARD PRODUCTS ARE AVAILABLE IN LIMITED MATERIALS AND SIZES. SPECIAL MATERIALS AND SIZES REQUIRE FABRICATION TO CONFORM TO SPECIFICATION.
4 PIPE PROTECTION BARRIER MAY BE APPLIED FOR ELECTRICAL ISOLATION OF DISSIMILAR METALLIC PIPING FROM HANGER OR SUPPORT AND FOR PROTECTION OF PLASTIC PIPING FROM CLAMPING STRESSES.

6 - TYPICAL STACKED PIPE WALL SYSTEM
NTS



TYPICAL PRECAST CONCRETE GATE VALVE VAULT
SCALE:NTS

NOTES:
1. PRECAST VAULT ASSEMBLY SHALL BE HS-20 LOAD RATED.
2. *IN PAVED AREAS, OMIT EXTENDED OPERATOR AND PROVIDE TRAFFIC RATED 18-INCH DIAMETER VALVE BOX FRAME AND COVER IN VAULT LID.



FLOW CONDITIONING CONE DETAIL
SCALE:NTS

NOTES:
1. FABRICATE UNIT FROM TYPE 304 STAINLESS STEEL.

CITY OF ATANTA DEPARTMENT OF WATERSHED MANAGEMENT MARCH 22, 2019	WATER SUPPLY PROGRAM RIVER INTAKE PUMP STATION FC-1190004 ATTACHMENT TO ADDENDUM NO. 2	PREPARED BY: R2T, INC.

CITY OF ATANTA DEPARTMENT OF WATERSHED MANAGEMENT MARCH 22, 2019	WATER SUPPLY PROGRAM RIVER INTAKE PUMP STATION FC-1190004 ATTACHMENT TO ADDENDUM NO. 2	PREPARED BY: R2T, INC.

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:
GEORGE A.H. REGISTERED No. 26889 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.H.

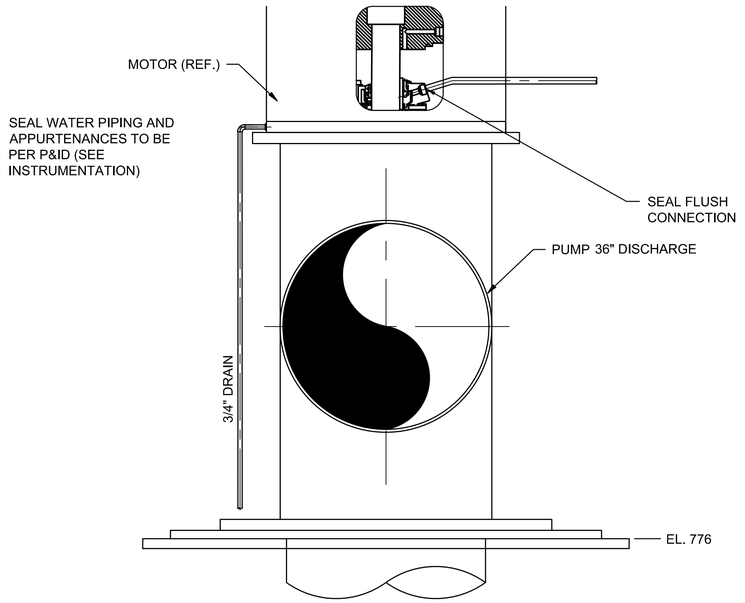
ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

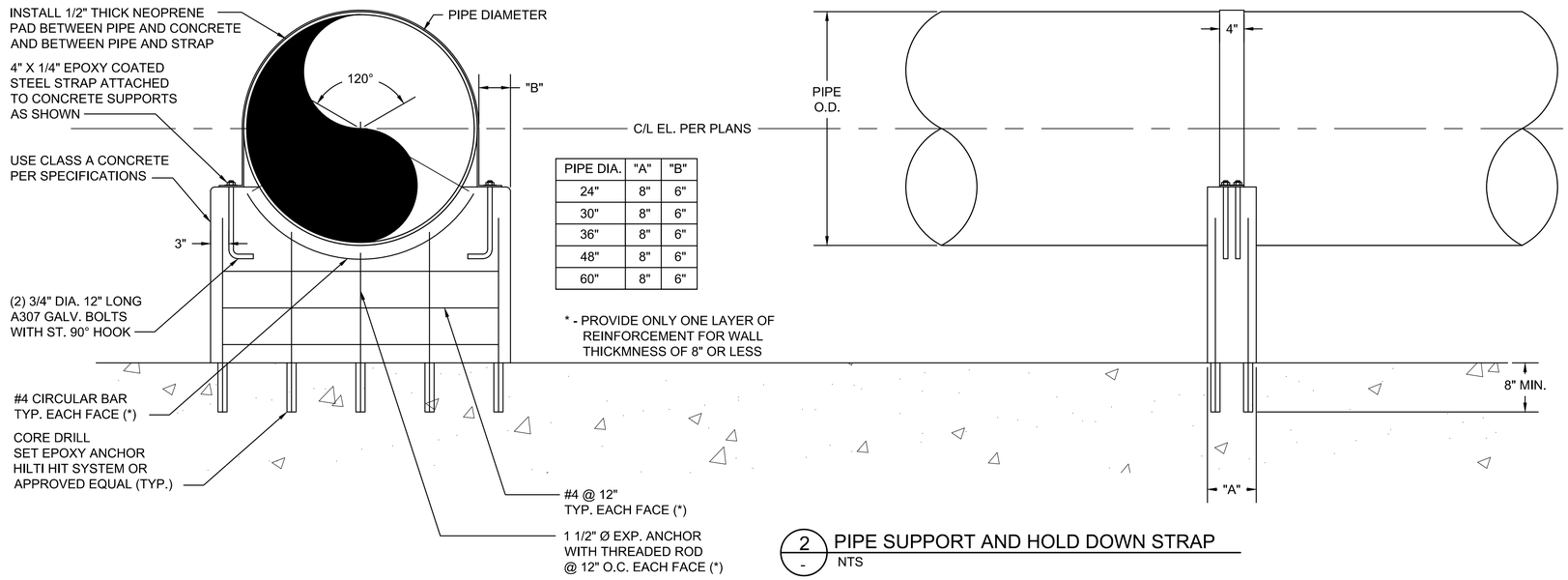
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
PROCESS DETAILS

DRAWING NO.
RI-PS
DS2-001
SHEET OF

ISSUED FOR BIDDING



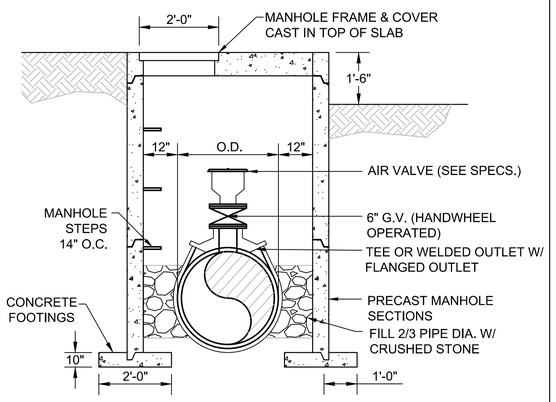
1 - SEAL WATER CONNECTION
NTS



PIPE DIA.	"A"	"B"
24"	8"	6"
30"	8"	6"
36"	8"	6"
48"	8"	6"
60"	8"	6"

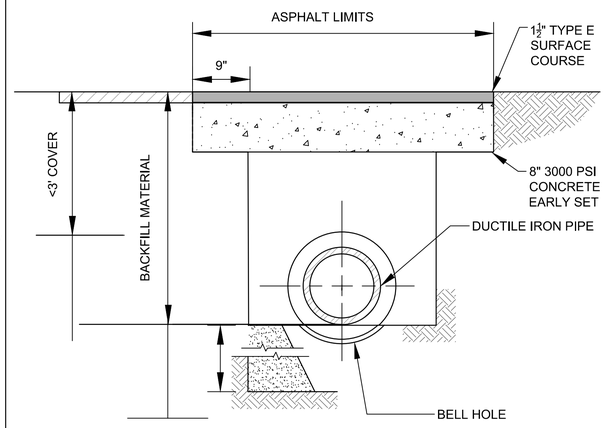
* - PROVIDE ONLY ONE LAYER OF REINFORCEMENT FOR WALL THICKMNESS OF 8" OR LESS

2 - PIPE SUPPORT AND HOLD DOWN STRAP
NTS

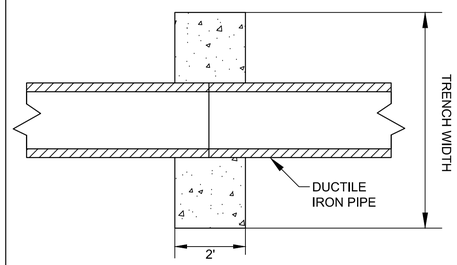


NOTE:
1. DETAIL FOR BURIED VALVES ONLY.
2. SEAL MANHOLE OPENINGS W/ BRICK AND MORTAR

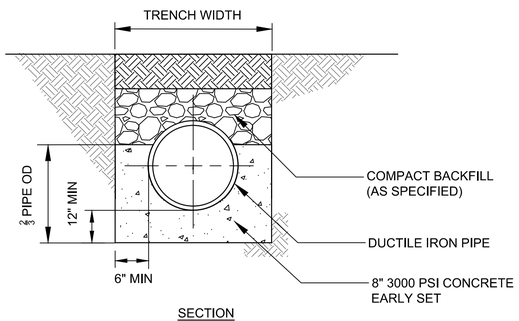
3 - AIR RELEASE VAULT
NTS



4 - TYPICAL SECTION FOR PIPE WITH LESS THAN 3' OF COVER AND TYPE V TRENCH
NTS

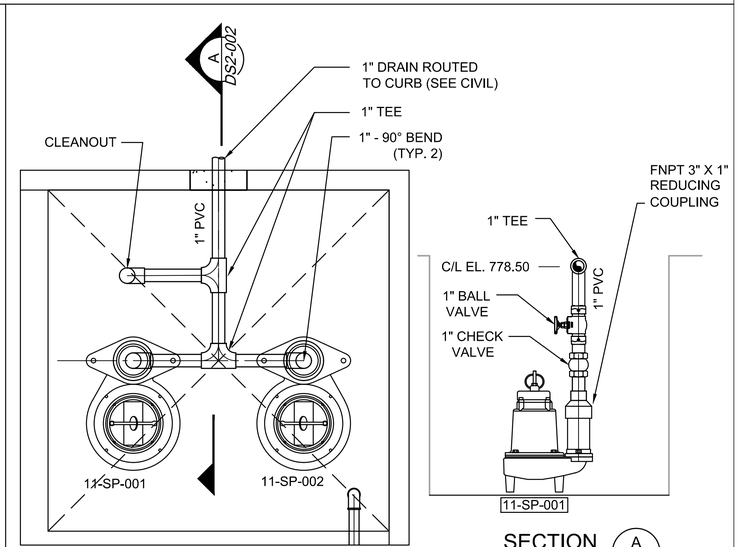


PLAN



SECTION

5 - CONCRETE CRADLE DETAIL
NTS



SECTION A DP2-007
NTS

SUMP PUMP DISCHARGE LINE TO BE SUPPORTED BY BRACKETS AT:
A.) MAXIMUM 18" FROM FITTINGS
B.) MAXIMUM 10' ON-CENTER LINEAR RUN.
RE: 5/DS2-001

6 - SUMP PUMP
NTS

P:\City of Atlanta – Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DS2-002.dwg, PRINTED BY: Hoyn.Barnes ON Thu, Dec 05 2019 AT 9:44 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGE A. IVY
REGISTERED
No. 25689
PROFESSIONAL
09/27/19
ENGINEER
GEORGE A. IVY

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FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

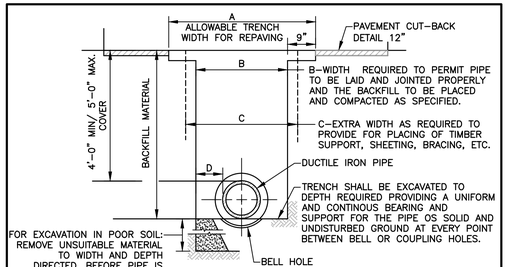
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

PROCESS DETAILS

DRAWING NO.
RI-PS
DS2-002
SHEET OF

ISSUED FOR BIDDING



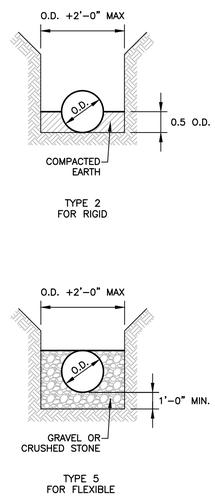
PIPE SIZE (NOMINAL)	A (MAXIMUM) EARTH/ROCK	B (MAXIMUM) EARTH/ROCK	C	D MIN./MAX.
6"	3.50'/4.00'	2.00'/2.50'	AS REQ'D	9"/12"
8"	3.50'/4.00'	2.00'/2.50'	"	9"/12"
12"	4.00'/4.50'	2.50'/3.00'	"	9"/12"
16"	4.50'/5.00'	3.00'/3.50'	"	9"/12"
20"	4.50'/5.00'	3.00'/3.50'	"	9"/12"
24"	5.00'/5.50'	3.50'/4.00'	"	9"/12"
30"	5.50'/6.00'	4.00'/4.50'	"	9"/12"
36"	6.00'/6.50'	4.50'/5.00'	"	9"/12"
48"	7.00'/7.50'	5.00'/6.00'	"	9"/12"

NOTES:

1. COMPACTION: BACKFILLS SHALL BE BUILT UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 12–INCHES IN DEPTH, PUDDLING WILL NOT BE PERMITTED, NOR WILL FROZEN OR WET MATERIAL BE PLACED IN TRENCHES.
2. COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION, AND THESE MATERIALS SMALL BE COMPACTED AT NOT LESS THAN 98% OF THEIR OPTIMUM COMPACTION FOR ANY SPECIFIC SOIL CLASSIFICATION. AS DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D698.
3. COMPACTION TEST: COMPACTION TEST WILL BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE ENGINEER WITH A MINIMUM OF ONE TEST ON EACH JOB, AND A MAXIMUM OF ONE REQUIRED TEST FOR 400 FEET OF LESS OF WATER MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE ENGINEER, WARRANT THE NEED FOR ADDITIONAL TESTS.

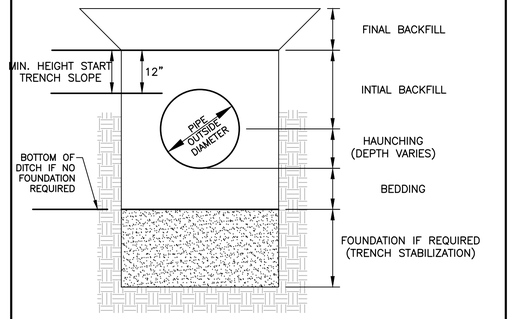
THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TYPICAL WATERLINE TRENCH SECTION	DETAIL NO. WR–G_TR001



THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TYPICAL WATER MAIN BEDDING & HAUNCHING	DETAIL NO. WR–G_TR002



THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: OCT. 2004 SCALE: N.T.S.
	TRENCH TERMINOLOGY	DETAIL NO. WR–G_TR003

NOM. PIPE DIA.	BELL DEPTH	BOLTS				JOINTS ACCESSORY WEIGHT–Lbs.
		DIAMETER	LENGTH	NUMBER PER JOINT	REC.TORQUE FT.–Lbs.	
4	2"	3/4"	3"	4	75–90	10
6	2"	3/4"	3"	6	75–90	16
8	2"	3/4"	4"	6	75–90	25
10	2"	3/4"	4"	8	75–90	30
12	2"	3/4"	4"	8	75–90	40
14	3 1/2"	3/4"	4"	10	75–90	45
16	3 1/2"	3/4"	4"	12	75–90	55
18	3 1/2"	3/4"	4 "	12	75–90	65
20	3 1/2"	3/4"	4"	14	75–90	85
24	3 1/2"	3/4"	5"	16	75–90	105
30	4"	1"	6"	20	100–120	220
36	4"	1"	6"	24	100–120	285
42	4"	1 1/4"	6"	28	120–150.	400
48	4"	1 1/4"	6"	32	120–150.	475

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: NOV. 2004 SCALE: N.T.S.
	MECHANICAL JOINT BOLT USAGE CHART	DETAIL NO. WR–G_MJ002

MAXIMUM PERMISSIBLE DEFLECTIONS

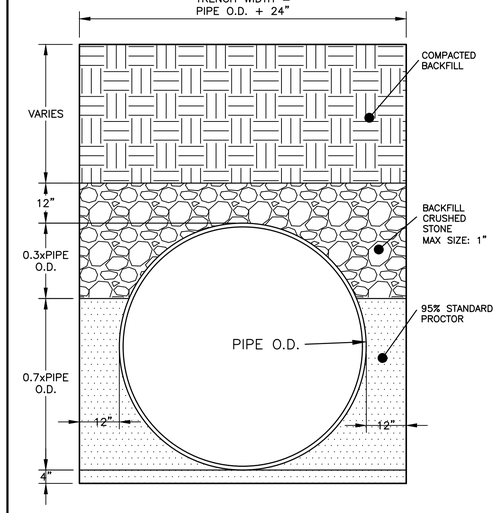
SIZE (NOM)	PUSH–ON–JOINT (18 FT. JOINTS) (20 FT. JOINTS)		MECHANICAL JOINT (18 FT. JOINTS) (20 FT. JOINTS)	
	DEGREE	MAX. OFFSET	DEGREE	MAX. OFFSET
3"	4.0	15"	4.5	17"
4"	4.0	15"	4.5	17"
6"	4.0	15"	4.5	17"
8"	4.0	15"	4.5	17"
10"	4.0	15"	4.5	17"
12"	4.0	15"	4.5	17"
14"	2.5	9.4"	3.0	11"
16"	2.0	7.5"	3.0	11"
20"	2.0	7.5"	2.0	7.5"
24"	2.0	7.5"	2.0	7.5"
30"	1.5	5.5"	2.0	7.5"
36"	1.5	5.5"	2.0	7.5"
42"	1.5	5.5"	1.5	5.5"
48"	1.5	5.5"	1.5	5.5"

NOTES:

1. WHEN A PIPE IS DEFLECTED, THE PIPE SHALL FIRST BE ASSEMBLED IN A STRAIGHT LINE, BOTH HORIZONALLY AND VERTICALLY BEFORE THE DEFLECTION IS MADE.
2. FOR MECHANICAL JOINT PIPE, THE BOLTS SHALL BE PARTIALLY TIGHTENED BEFORE THE LENGTH OF PIPE IS DEFLECTED. ANY SUPPORTED PIPE, SHALL BE SO SUPPORTED THAT THERE IS ZERO DEFLECTION EXCEPT WHERE EITHER A HORIZONAL OR VERTICAL CURVE ON A BRIDGE OR OTHER STRUCTURE IS INVOLVED.
3. THRUST RESTRAINTS MAY BE REQUIRED ON THE DEFLECTED JOINTS.

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: NOV. 2004 SCALE: N.T.S.
	MAXIMUM PERMISSIBLE JOINT DEFLECTIONS	DETAIL NO. WR–G_DF001



	LARGE DIAMETER STEEL PIPE TRENCH	

BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED NO. 27439 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.V

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FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING DETAILS

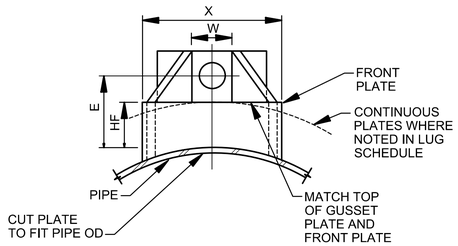
DRAWING NO.

RI-PS

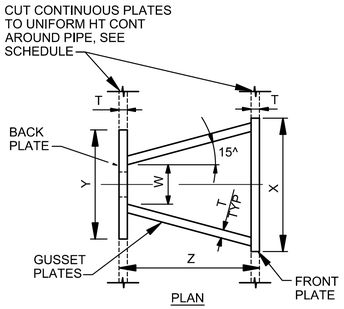
DS2-003

SHEET OF

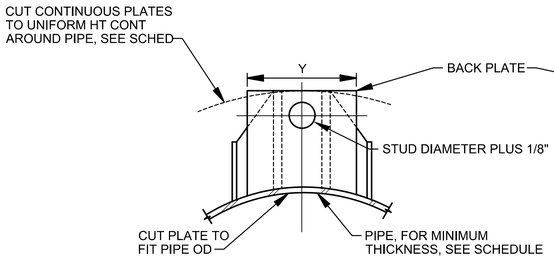
ISSUED FOR BIDDING



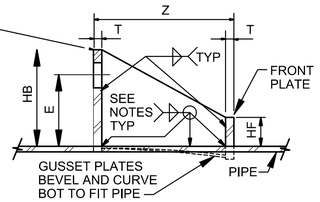
FRONT ELEVATION



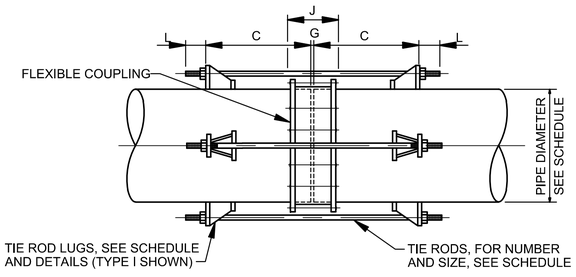
PLAN



BACK ELEVATION

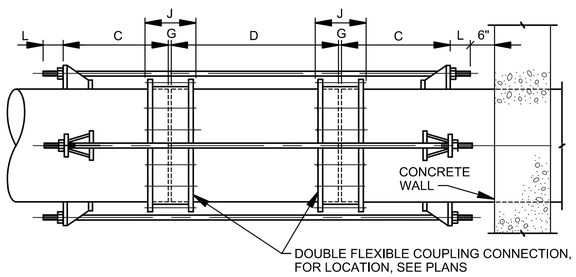


SECTION



NOTES:

1. THE MIDDLE RING LENGTH OF THE FLEXIBLE COUPLING SHALL BE AS SPECIFIED.
2. THE CONTRACTOR SHALL DETERMINE THE LENGTH "J" (COUPLING BOLT LENGTH) FROM MANUFACTURER'S CATALOGS USING THE SPECIFIED MIDDLE RING LENGTH.
3. "G" = MANUFACTURER'S RECOMMENDED SPACE BETWEEN ENDS OF PIPE.
4. "C" = J+Z+1 INCH, (ROUND THIS VALUE UP TO NEXT EVEN INCH), MINIMUM. (FOR Z DIMENSIONS, SEE LUG SCHEDULE.)
5. TIE ROD LENGTH = 2L+2C+G.



NOTES:

1. THE MIDDLE RING LENGTH OF THE FLEXIBLE COUPLING SHALL BE AS SPECIFIED.
2. THE CONTRACTOR SHALL DETERMINE THE LENGTH "J" (COUPLING BOLT LENGTH) FROM MANUFACTURER'S CATALOGS USING THE SPECIFIED MIDDLE RING LENGTH.
3. G = MANUFACTURER'S RECOMMENDED SPACE BETWEEN ENDS OF PIPE.
4. C = J+Z+1 INCH, (ROUND THIS VALUE UP TO NEXT EVEN INCH), MINIMUM. (FOR Z DIMENSIONS, SEE LUG SCHEDULE.)
5. D = 2C+6 INCHES.
6. TIE ROD LENGTH = 2L+2C+2G+D.
7. SIMILAR, TO TYPICAL THRUST TIE DETAIL EXCEPT AS NOTED.

LUG SCHEDULE

ROD DIA	LUG TYPE	T	W	X	Y	Z	HB	E	HF	L
5/8	I	3/8	1-3/8	4-1/16	4-1/2	3-3/8	3-7/8	3	1-3/4	3
3/4	I	3/8	1-1/2	5	4-1/2	5	4-1/8	3-1/8	1-3/4	3
7/8	I	1/2	1-5/8	5-1/2	4-1/2	5-1/8	4-1/4	3-1/8	1-3/4	4
1	II	1/2	1-3/4	5-3/4	CONT	6	4-1/2	3-1/4	2	4
1-1/4	II	5/8	2	7-1/4	CONT	7-5/8	5	3-3/4	2	4
1-1/2	II	3/4	2-1/4	9	CONT	10-1/8	5-1/2	3-7/8	2	4
1-3/4	III	1	2-1/2	CONT	CONT	11-7/8	5-7/8	4	2-1/4	4
2	III	1	2-3/4	CONT	CONT	13-7/8	6-1/4	4-1/4	2-1/2	4

TIE ROD SCHEDULE

*SEE NOTES

TEST PRESSURE		25 PSI TIE RODS		50 PSI TIE RODS		100 PSI TIE RODS		150 PSI TIE RODS		225 PSI TIE RODS		375 PSI TIE RODS	
PIPE DIA (IN.)	MIN PIPE WALL THKS (IN.)*	DIA (IN.)	NO. REQD	DIA (IN.)	NO. REQD	DIA (IN.)	NO. REQD	DIA (IN.)	NO. REQD	DIA (IN.)	NO. REQD	DIA (IN.)	NO. REQD
6	3/16	—	—	—	—	5/8	2	5/8	2	5/8	2	5/8	2
8	3/16	—	—	—	—	5/8	2	5/8	2	5/8	2	3/4	2
10	3/16	—	—	—	—	5/8	2	5/8	2	3/4	2	7/8	2
12	3/16	5/8	2	5/8	2	5/8	2	5/8	2	3/4	2	7/8	4
14	3/16	5/8	2	5/8	2	3/4	2	3/4	2	3/4	4	1	4
16	3/16	5/8	2	5/8	2	3/4	2	7/8	2	7/8	4	1	4
18	1/4	5/8	2	5/8	2	7/8	2	1	2	1	4	1-1/4	4
20	1/4	5/8	2	3/4	2	7/8	2	7/8	4	1	4	1-1/4	4
22	1/4	5/8	2	3/4	2	3/4	4	7/8	4	1	4	1-1/2	4
24	1/4	5/8	2	3/4	2	7/8	4	1	4	1	6	1-1/2	6
30	1/4	5/8	4	3/4	4	7/8	6	1	6	1	8	1-1/2	8
36	1/4	3/4	4	7/8	4	1	6	1	8	1-1/4	8	1-1/2	10
42	1/4	3/4	4	1	4	1	8	1-1/4	8	1-1/2	8	1-3/4	10
48	5/16	7/8	4	7/8	8	1	10	1-1/4	10	1-1/2	10	1-3/4	12
54	5/16	3/4	6	7/8	8	1	12	1-1/4	12	1-1/2	12	1-3/4	14
60	11/32	7/8	6	1	8	1-1/4	10	1-1/4	14	1-1/2	14	1-3/4	16
72	3/8	7/8	8	1	10	1-1/4	12	1-1/2	14	1-3/4	14	2	18
78	13/32	7/8	8	1	12	1-1/4	14	1-1/2	16	1-3/4	16	2	20
84	7/16	7/8	10	1-1/4	10	1-1/2	14	1-3/4	14	1-3/4	18	2	22
96	7/16	1	10	1-1/4	12	1-1/2	16	1-3/4	16	2	16	—	—
108	1/2	1	12	1-1/4	12	1-3/4	12	2	14	2	22	—	—
120	5/8	1-1/4	8	1-1/2	10	1-3/4	16	2	18	—	—	—	—
132	23/32	1-1/4	6	1-3/4	10	1-3/4	18	2	22	—	—	—	—

NOTES:

1. LUG SCHEDULE DIMENSIONS IN INCHES.
2. TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7.
3. NUTS SHALL CONFORM TO ASTM A194 GRADE 2H.
4. PLATE SHALL CONFORM TO ASTM A283 GRADE D.
5. TIE ROD NUTS SHALL BE TIGHTENED GRADUALLY AND EQUALLY IN STAGES TO PREVENT UNEVEN ALIGNMENT AND TO ALLOW EQUAL STRESS ON ALL TIE RODS UNDER PRESSURE. TIGHTEN UNTIL SNUG. THREADS SHALL PROTRUDE FROM NUTS. PEEN THREADS AFTER TIGHTENING NUTS.
6. TIE ROD LUGS SHALL BE SPACED EQUALLY AROUND PIPE.
7. FILLET WELDS SHALL MEET THE MINIMUM REQUIREMENTS OF THE AISC SPECIFICATIONS EXCEPT AS FOLLOWS: FILLET WELDS SHALL BE 1/4-INCH MINIMUM EXCEPT WHEN WELDING 3/16-INCH PLATE WHERE THEY SHALL BE 3/16-INCH.
8. CATHODIC PROTECTION FOR FLEXIBLE COUPLINGS REQUIRED WHERE NOTED ON DWGS OR IN THE SPECIFICATIONS.
9. CONTRACTOR SHALL USE DATA FOR ONLY THOSE PIPE SIZES AND TEST PRESSURES SPECIFIED IN THIS CONTRACT.
10. LUG TYPE I IS AS SHOWN IN DETAIL. LUG TYPE II HAS CONTINUOUS FRONT AND BACK PLATES AROUND PIPE.
11. TIE RODS SHALL NOT BE ATTACHED TO A PIPE WHEN THE WALL THICKNESS IS LESS THAN THE MINIMUM SHOWN ON THE TIE ROD SCHEDULE.
12. THE MINIMUM PIPE WALL THICKNESSES SHOWN ARE TO ENSURE PROPER PERFORMANCE OF THE THRUST TIE LUG. PIPE WALL THICKNESSES GREATER THAN SHOWN IN THE TABLE MAY BE REQUIRED AND MAY BE SHOWN ELSEWHERE OR SPECIFIED ELSEWHERE TO RESIST INTERNAL PRESSURES.

1 - THRUST TIE

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP: GEORGIA REGISTERED No. 24859 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:
BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	H.B.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	NONE

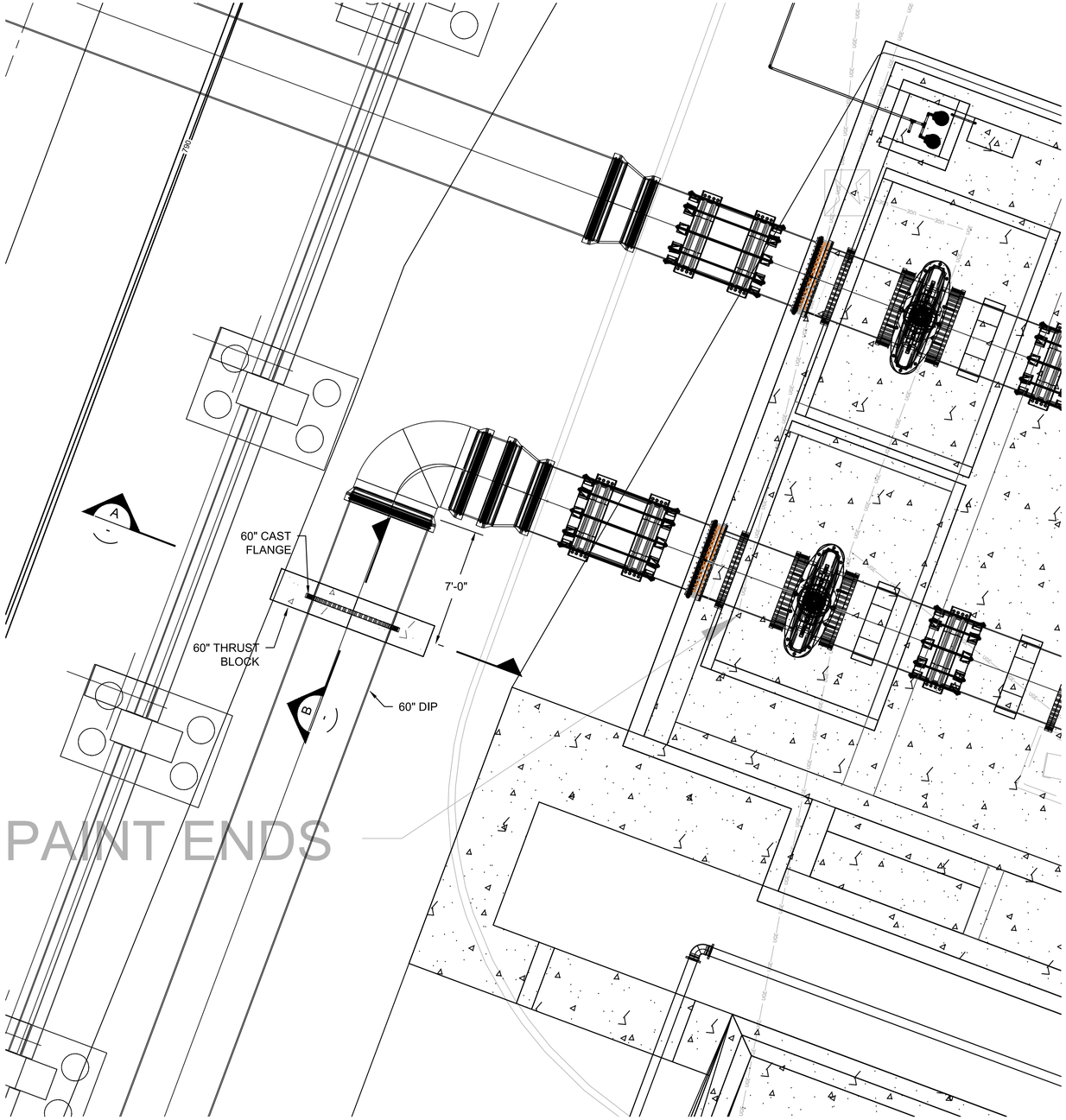
CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

PROCESS DETAILS

DRAWING NO.
RI-PS
DS2-004
SHEET OF

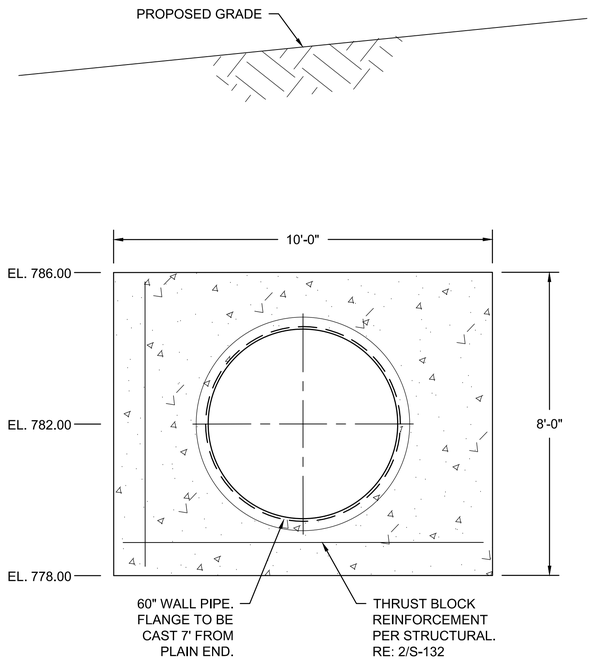
ISSUED FOR BIDDING



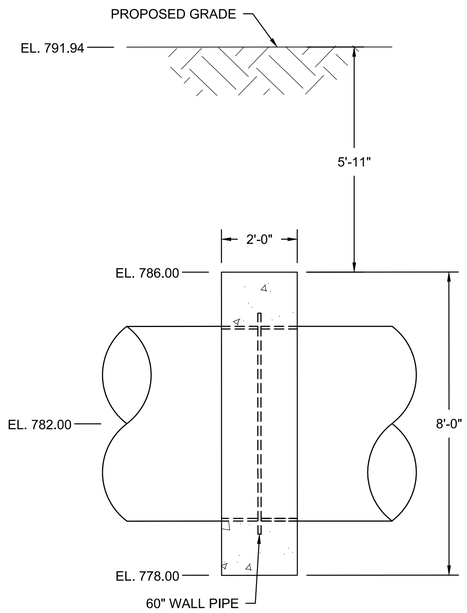
CONCRETE THRUST BLOCK

SCALE: 3/4" = 1'-0"

1



SECTION A-A



SECTION B-B

THRUST BLOCK DETAIL

SCALE: 1" = 5'-0"

P:\City of Atlanta - Water Supply Program Phase II\CD Drawings\PROCESS\RI-PS DS2-005-006.dwg, PRINTED BY: Hoshyn.Barnes ON Thu, Dec 05 2019 AT 9:47 AM

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 25089 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

CONCRETE THRUST BLOCK DETAILS

DRAWING NO.

RI-PS

DS2-005

SHEET OF

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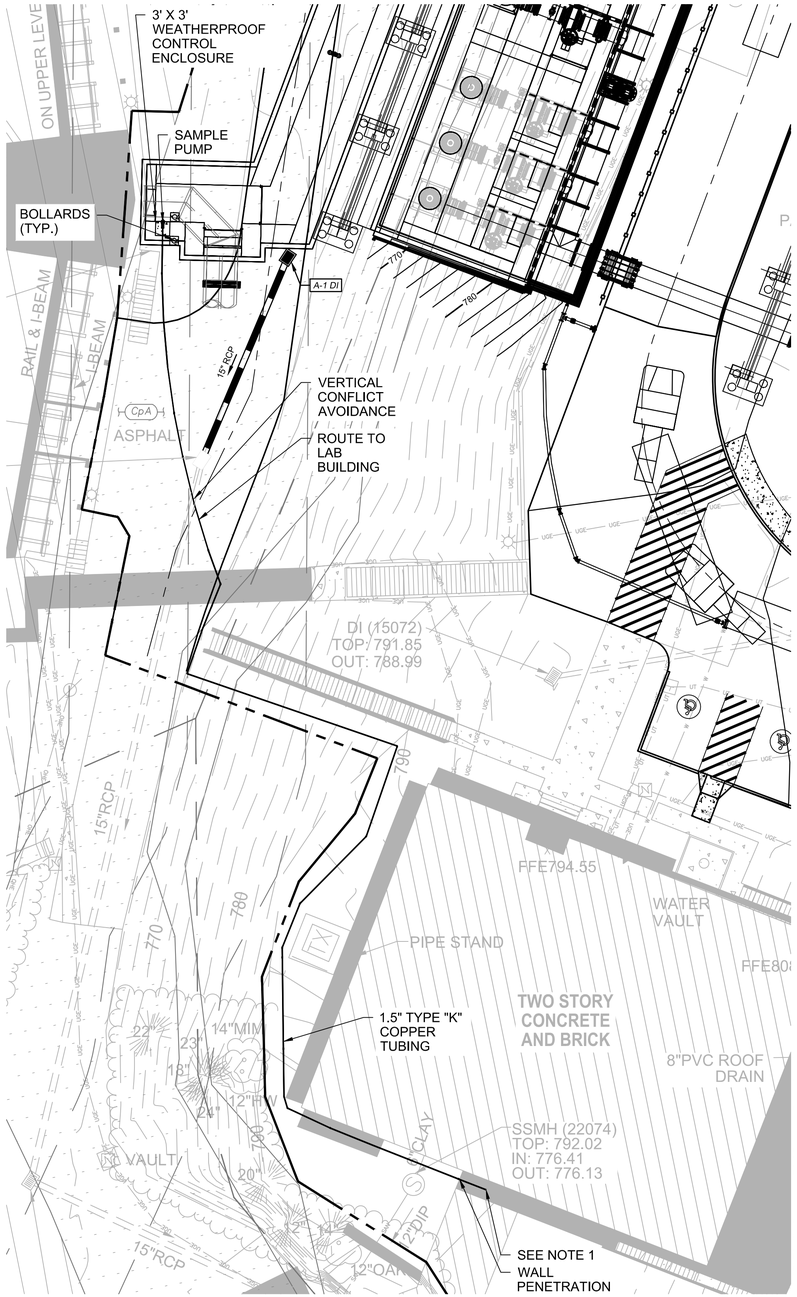


SAMPLE LINE ROUTING

SCALE: 3/4" = 1'-0"

1

-

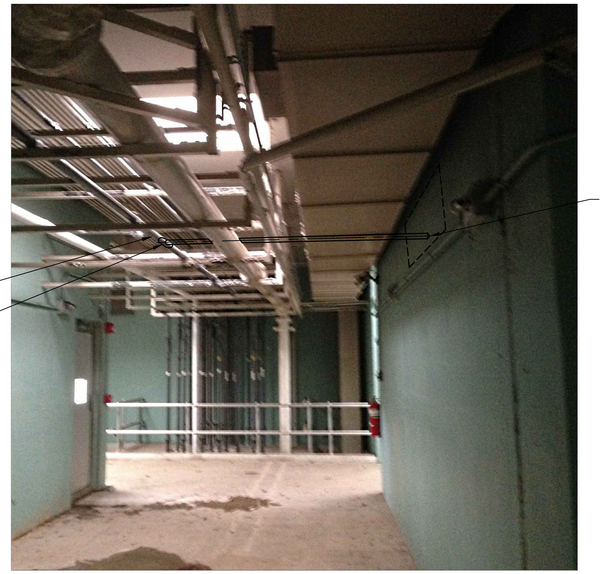
WALL PENETRATION.
SEE NOTE 2 & 3.

OUTSIDE WALL PENETRATION

SCALE: NTS

2

-



EXISTING SAMPLE LINE
SEE NOTE 1

WALL PENETRATION.
SEE NOTE 2 & 3.

INSIDE WALL PENETRATION

SCALE: NTS

3

-

NOTES:

1. CONTRACTOR TO CUT EXISTING SAMPLE LINE, CAP UPSTREAM END OF EXISTING SAMPLE LINE, TRANSITION SIZE OF NEW SAMPLE LINE TO MATCH SIZE OF EXISTING SAMPLE LINE, AND INSTALL NEW ELBOW TO CONNECT NEW SAMPLE LINE TO DOWNSTREAM EXISTING SAMPLE LINE. CONTRACTOR TO COORDINATE WITH LABORATORY STAFF TO ENSURE EXISTING SAMPLING ACTIVITIES ARE STOPPED.
2. CONTRACTOR TO VERIFY TIE-IN ELEVATION BEFORE WALL CORE.
3. USE LINK SEAL FOR WALL CORE PENETRATION.

3/4 0 3/8 3/4 3/2

(IN FEET)
3/4 inch = 1 ft.

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED NO. 26089 PROFESSIONAL 09/27/19 ENGINEER GEORGE A.JY

ADDRESS:

BGR2-JV
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SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	A.T.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

SAMPLE LINE DETAILS

DRAWING NO.

RI-PS

DS2-006

SHEET OF

ISSUED FOR BIDDING

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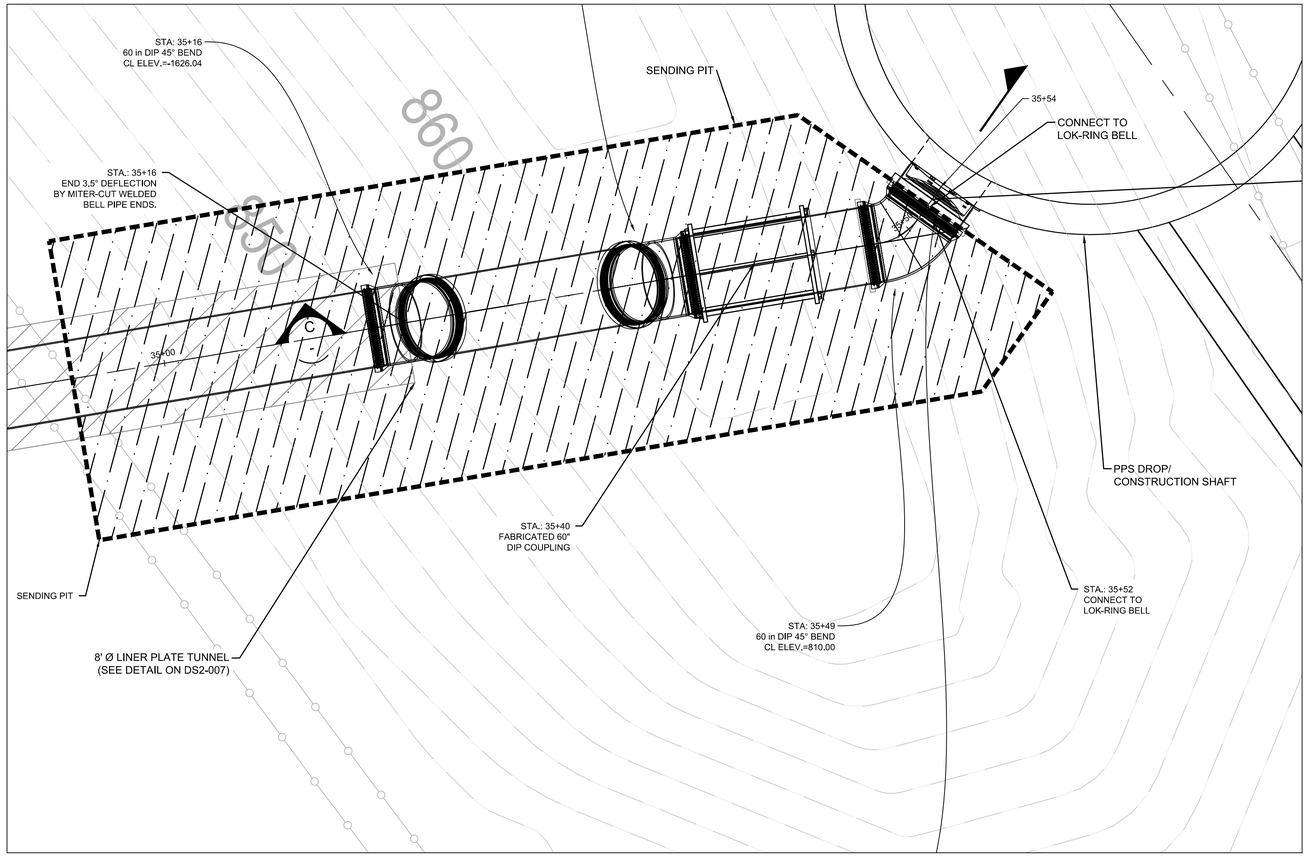
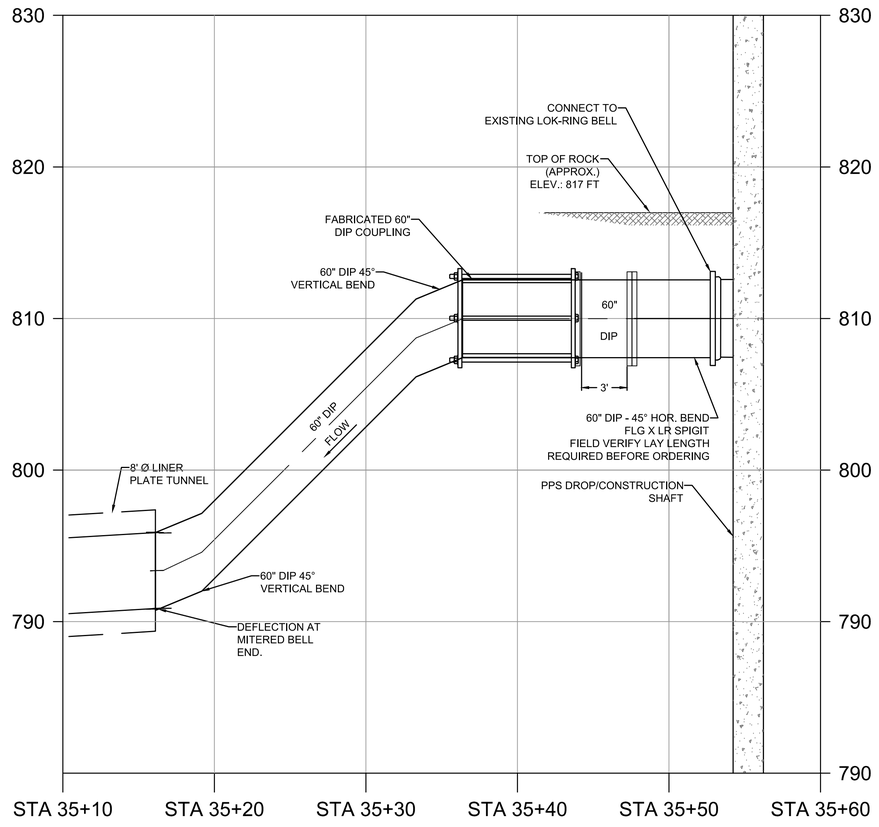


CONNECTION AT P-PS SHAFT

SCALE: 1" = 5'-0"

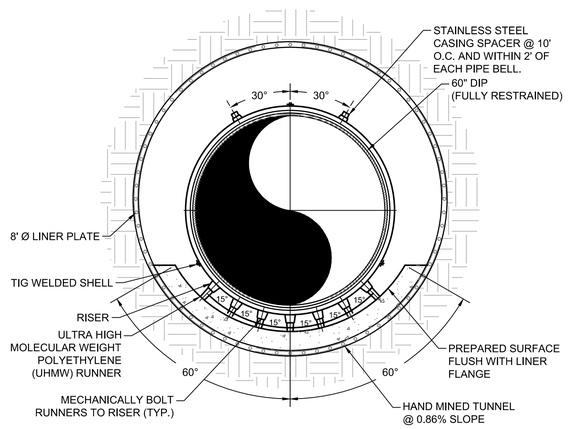
4
-



SECTION

HOR: 1" = 5'-0"
VERT: 1" = 5'-0"

C
-



TUNNEL CROSS SECTION

SCALE 1" = 2'-0"

BGR2 JOINT VENTURE
BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

No.	Description	Date

STAMP:

GEORGIA REGISTERED No. 29859 PROFESSIONAL 09/27/19 ENGINEER GEORGE AJY

ADDRESS:

BGR2-JV
6 CONCOURSE PARKWAY
SUITE 1600
ATLANTA, GA 30328
(770) 569-7038 x101
FAX: (770) 993-5082

PROJECT NO:	TASK_13
DESIGNED BY:	J.J.
DRAWN BY:	J.J.
CHECKED BY:	G.A.
DATE:	09/27/19
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM

RIVER INTAKE PUMP STATION

YARD PIPING
SECTIONS

DRAWING NO.
RI-PS
DS2-007
SHEET OF

ISSUED FOR BIDDING