South Monroe Water System Improvements

LAGC Plan Room - North

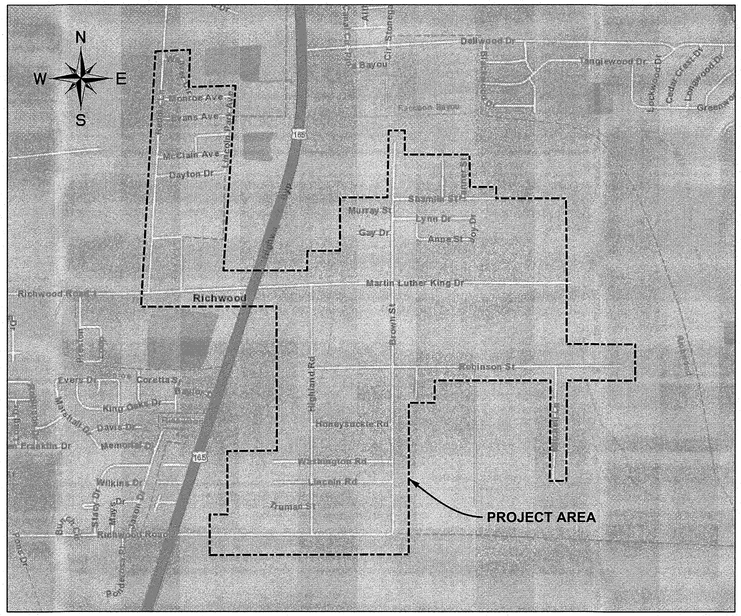
Project documents obtained from www.CentralBidding.com

20-Feb-2026 03:01:51 PM

CONSTRUCTION PLANS
FOR
SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM
A LOUISIANA COMMUNITY DEVELOPMENT BLOCK GRANT PROJECT
FOR THE
OUACHITA PARISH POLICE JURY

OUACHITA PARISH POLICE JURORS

DISTRICT A - TONI BACON
DISTRICT B - JIMMY TYSON
DISTRICT C - LARRY BRATTON
DISTRICT D - MICHAEL THOMPSON, SR.
DISTRICT E - SHANE SMILEY
DISTRICT F - LONNIE HUDSON



PROJECT AREA MAP

DRAWING INDEX	
SHEET NO.	**DESCRIPTION**
1	TITLE SHEET AND DRAWING INDEX
2 - 3	WATER MAIN PLAN SHEET INDEX
4 - 45	WATER MAIN PLAN SHEETS
46 - 47	CONSTRUCTION NOTES & STANDARD DETAILS

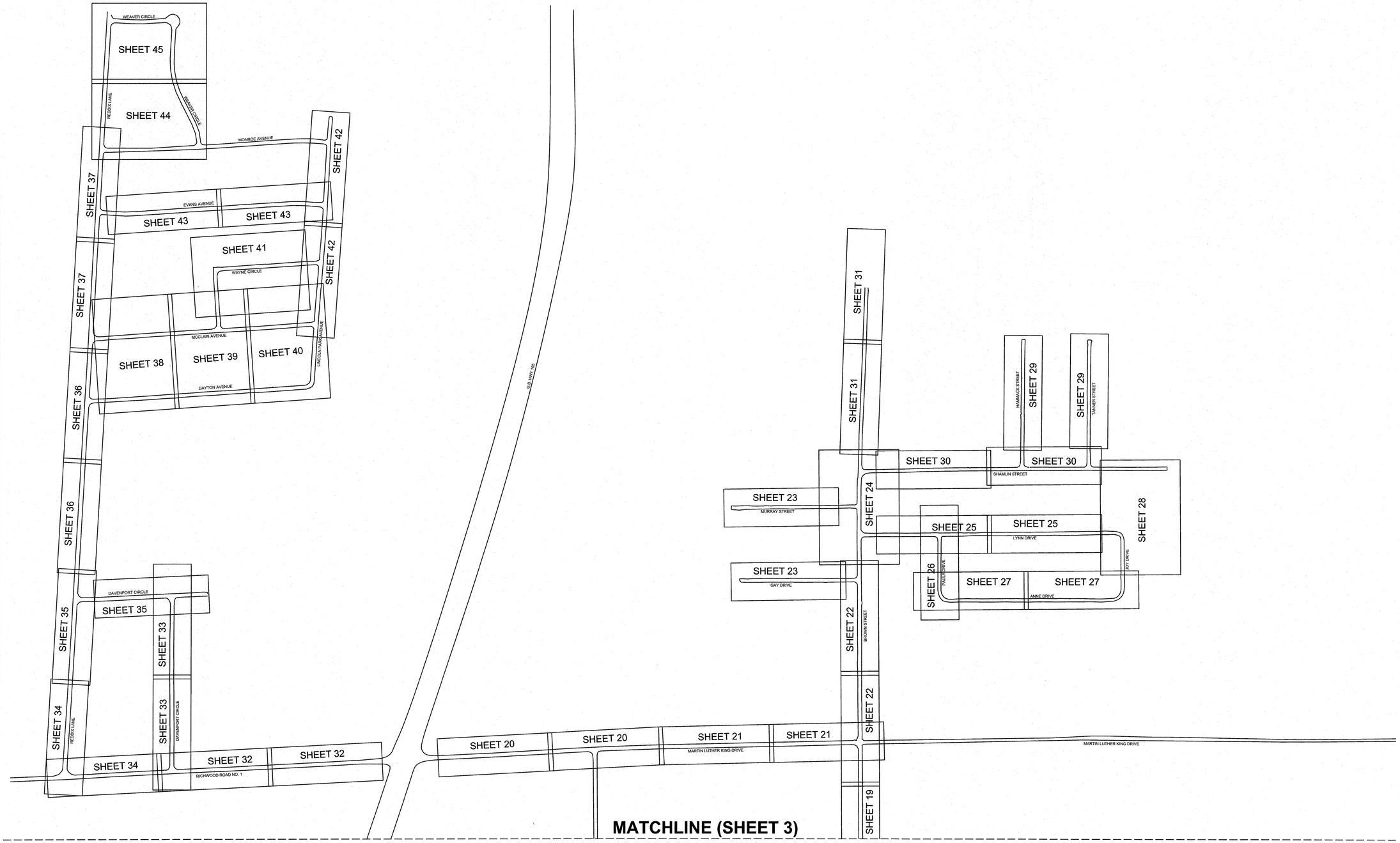
PREPARED BY:

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

AUGUST, 2025

L & A, INC. PROJECT NO. 23E091.01

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25



REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
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REGISTERED PROFESSIONAL ENGINEER IN ENGINEERING
9/16/25

LAZENBY & ASSOCIATES, INC.
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WATER MAIN PLAN SHEET INDEX (1 OF 2)

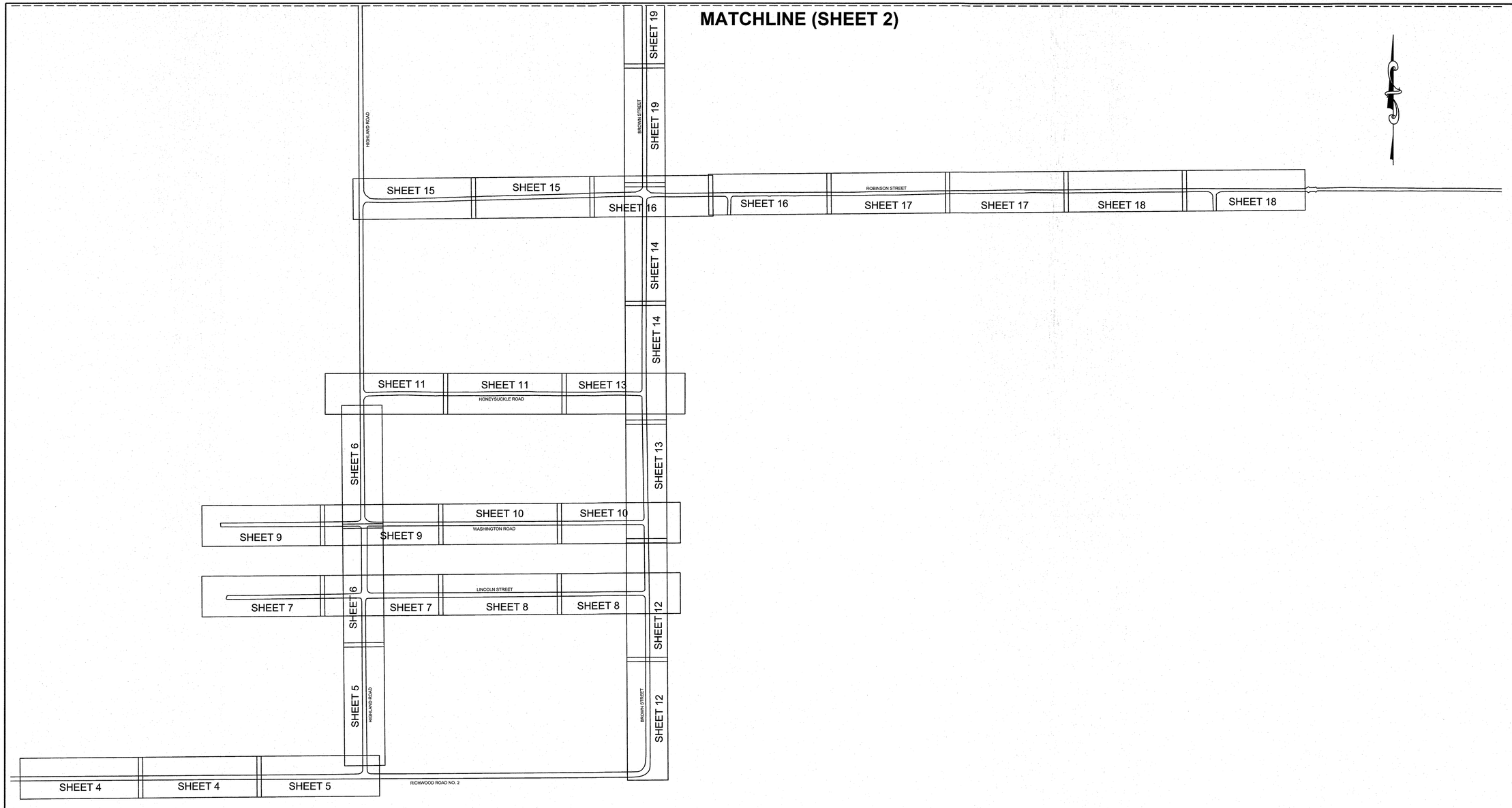
SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	N.T.S.
FILE:	Sheet Index.dgn
PROJ NO:	23E091.01

SHEET 2 OF 47

MATCHLINE (SHEET 2)



REVISIONS

STATE OF LOUISIANA
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4/18/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2800 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

WATER MAIN PLAN SHEET INDEX (2 OF 2)

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
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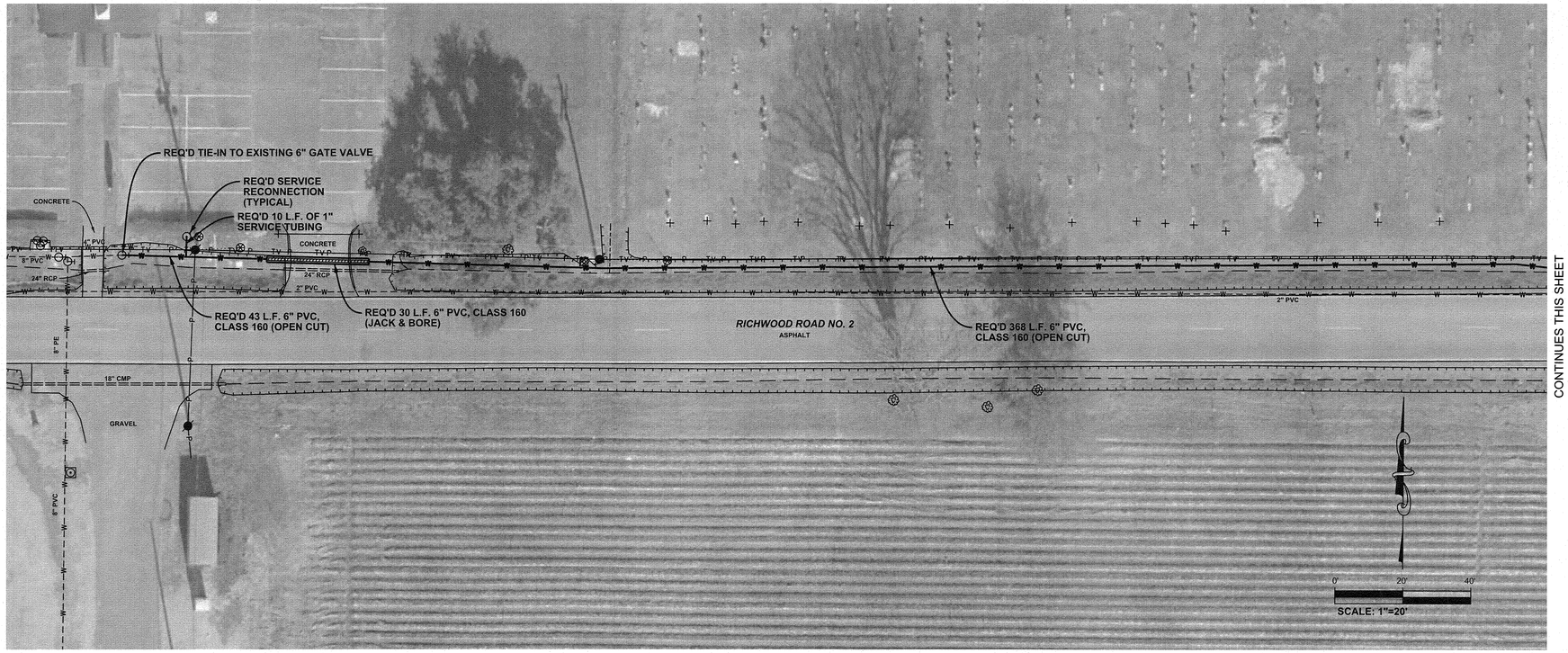
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	N.T.S.
FILE:	Sheet Index.dgn
PROJ NO:	23E091.01

LEGEND

- WATER METER
- WATER VALVE
- POWER POLE
- DEADMAN
- SEWER MANHOLE
- SEWER CLEAN OUT
- PIPELINE MARKER
- GAS VALVE
- GAS METER
- TREE
- SIGN
- MAILBOX
- TELEPHONE PEDESTAL
- TELEPHONE POWER BOX
- TELEPHONE UTILITY MARKER
- TELEPHONE POLE
- FIRE HYDRANT
- WATER SAMPLE TAP
- OVERHEAD POWER LINE
- SANITARY SEWER MAIN
- TELEPHONE LINE
- EXISTING WATER MAIN
- FENCE
- CENTERLINE DITCH
- TOP BANK OF DITCH
- PROPOSED WATER MAIN
- PROPOSED BORE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- RELOCATED WATER METER
- PROPOSED WATER SERVICE



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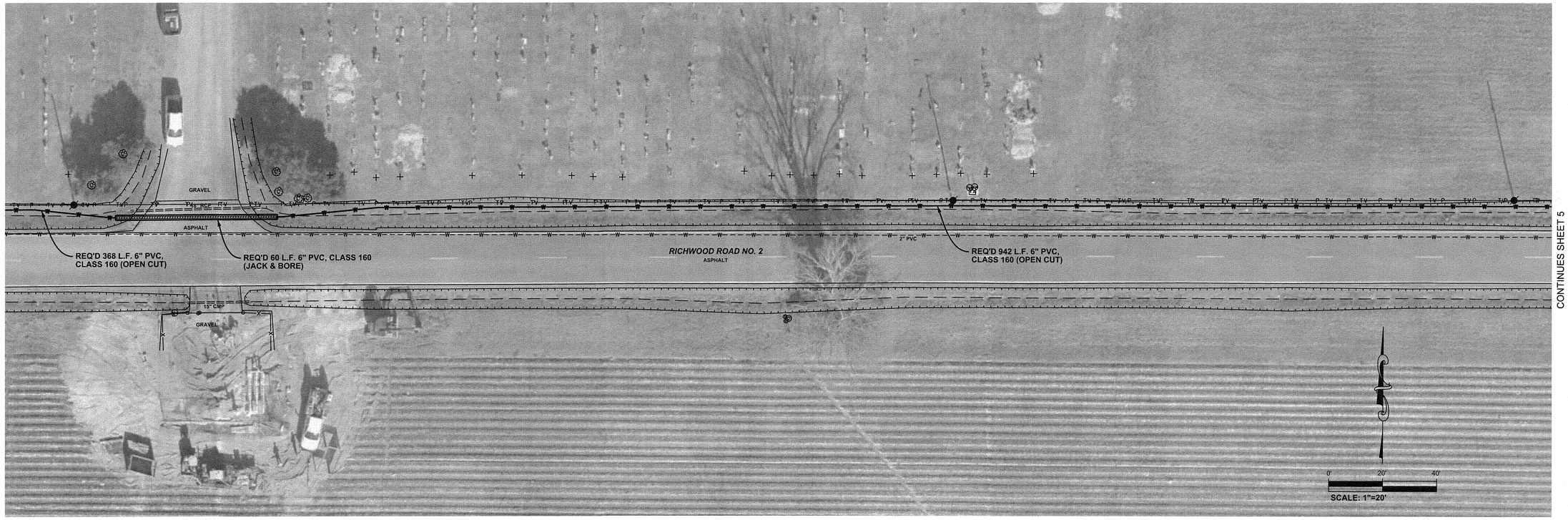

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CONTINUES SHEET 5

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
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IN
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9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 4.dgn
PROJ NO:	23E091.01

SHEET 4 OF 47

CONTINUES THIS SHEET

CONTINUES SHEET 4

REQ'D 638 L.F. 6" PVC, CLASS 160 (OPEN CUT)

HIGHLAND ROAD
ASPHALT
4" AC

REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D:
(1) 6" M.J. TEE
(3) 6" GATE VALVES
(1) 6" x 4" M.J. REDUCER

REQ'D 942 L.F. 6" PVC, CLASS 160 (OPEN CUT)

4" HDPE

4" PVC

18" x 29" RCPA

2" PVC

RICHWOOD ROAD NO. 2
ASPHALT

REQ'D 10 L.F. 4" PVC, CLASS 160 (OPEN CUT)

18" x 27" RCPA

0' 20' 40'

SCALE: 1"=20'

CONTINUES THIS SHEET

0' 20' 40'

SCALE: 1"=20'

TRUMAN STREET
ASPHALT

2" PVC

ASPHALT

24" RCP

18" RCP

GRAVEL

HIGHLAND ROAD
ASPHALT

DIRT

4" AC

18" RCP

REQ'D 638 L.F. 6" PVC, CLASS 160 (OPEN CUT)

CONTINUES SHEET 6

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
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IN CIVIL ENGINEERING
9/15/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 5.dgn
PROJ NO:	23E091.01

SHEET 5 OF 47

CONTINUES SHEET 7

CONTINUES SHEET 9

CONTINUES SHEET 5

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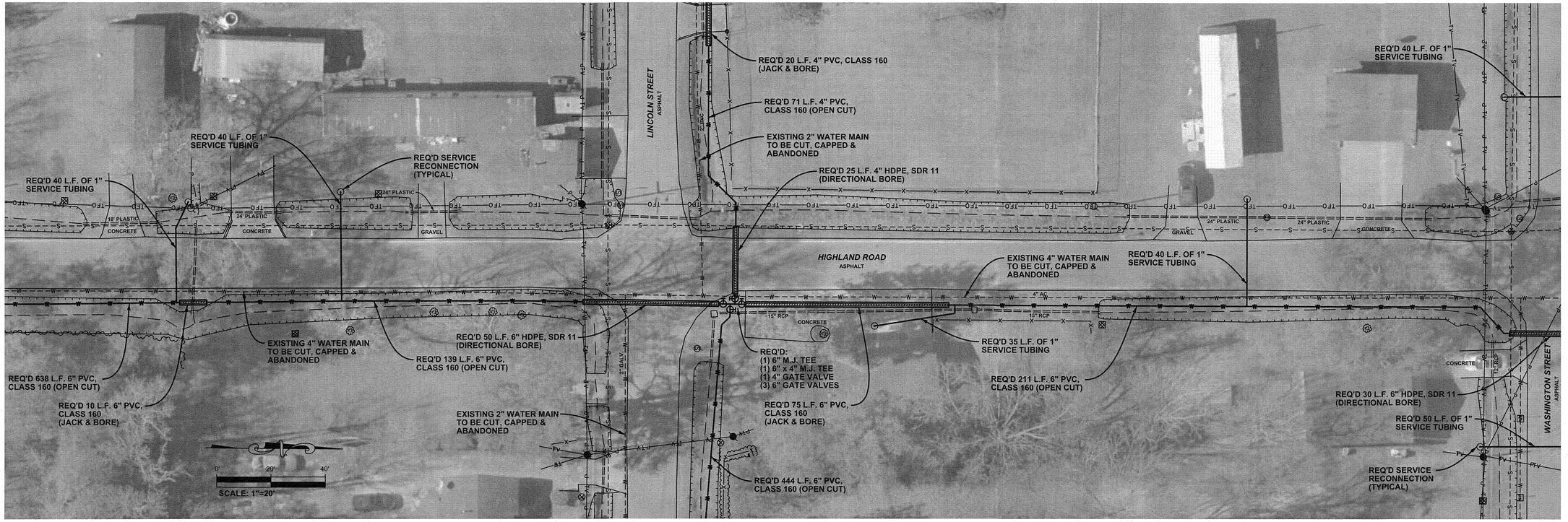

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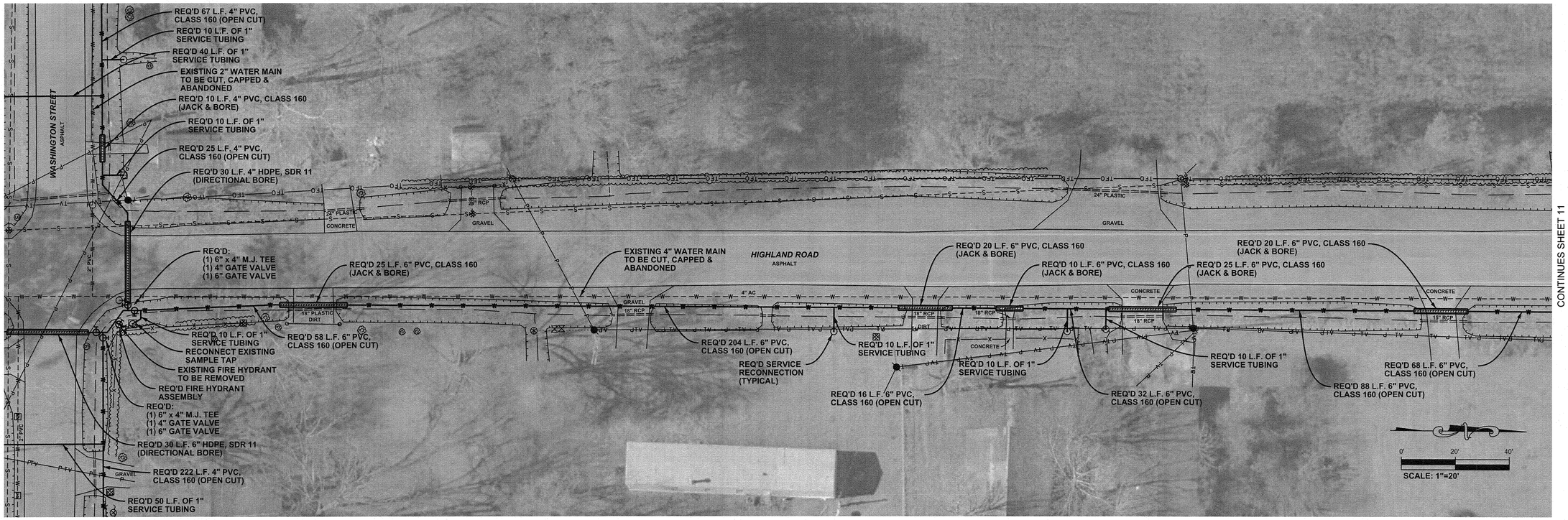
CONTINUES SHEET 9

CONTINUES THIS SHEET



CONTINUES SHEET 9

CONTINUES SHEET 11

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
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9/9/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

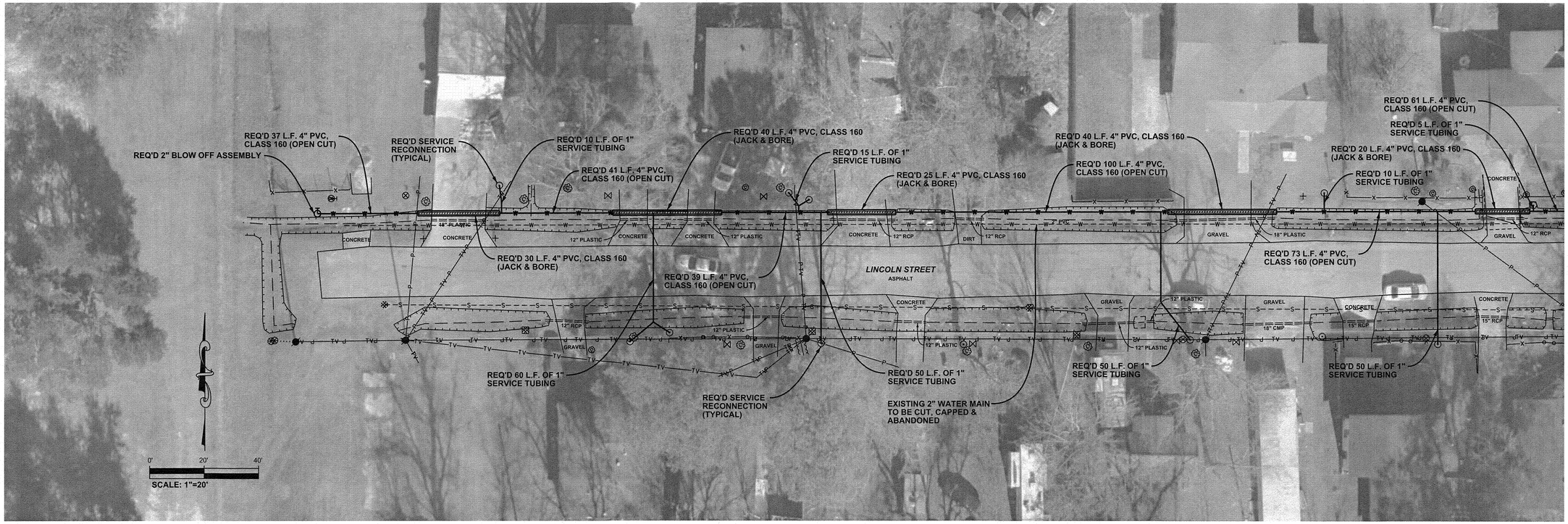
DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 6.dgn
PROJ NO:	23E091.01

SHEET 6 OF 47



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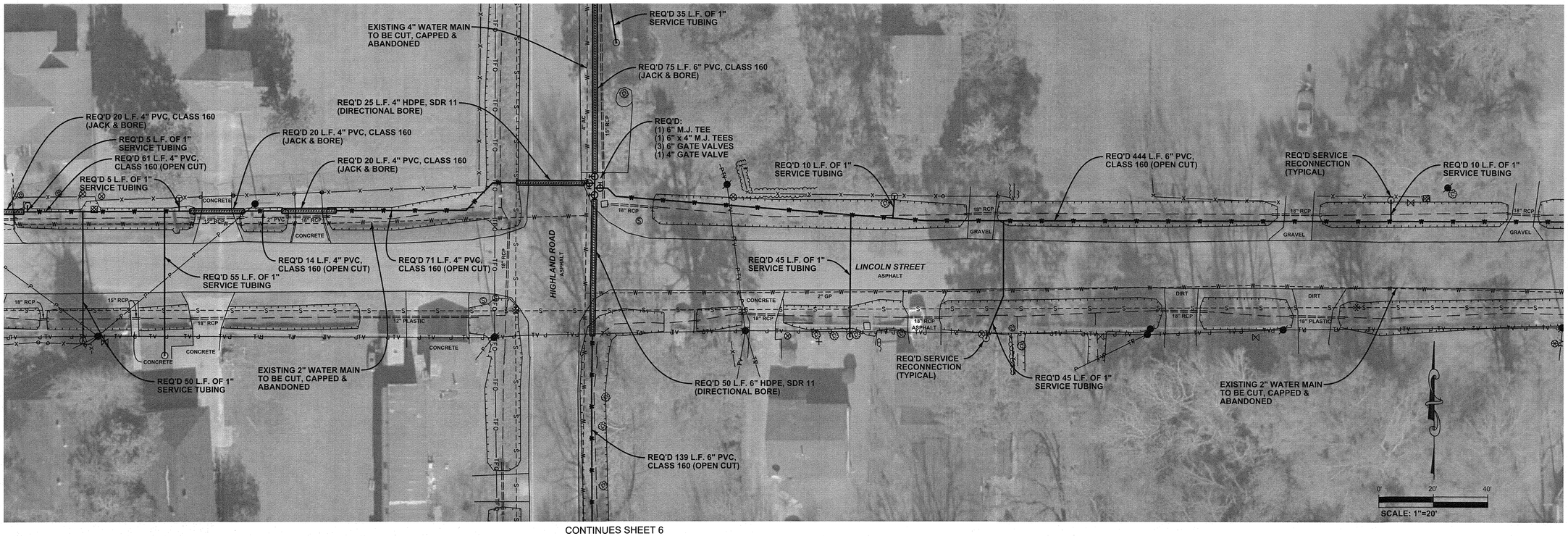

CONTINUES THIS SHEET

CONTINUES SHEET 6

CONTINUES SHEET 8

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
IN
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26872

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
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FILE:	Plan Sheet 7.dgn
PROJ NO:	23E091.01
SHEET	7 OF 47

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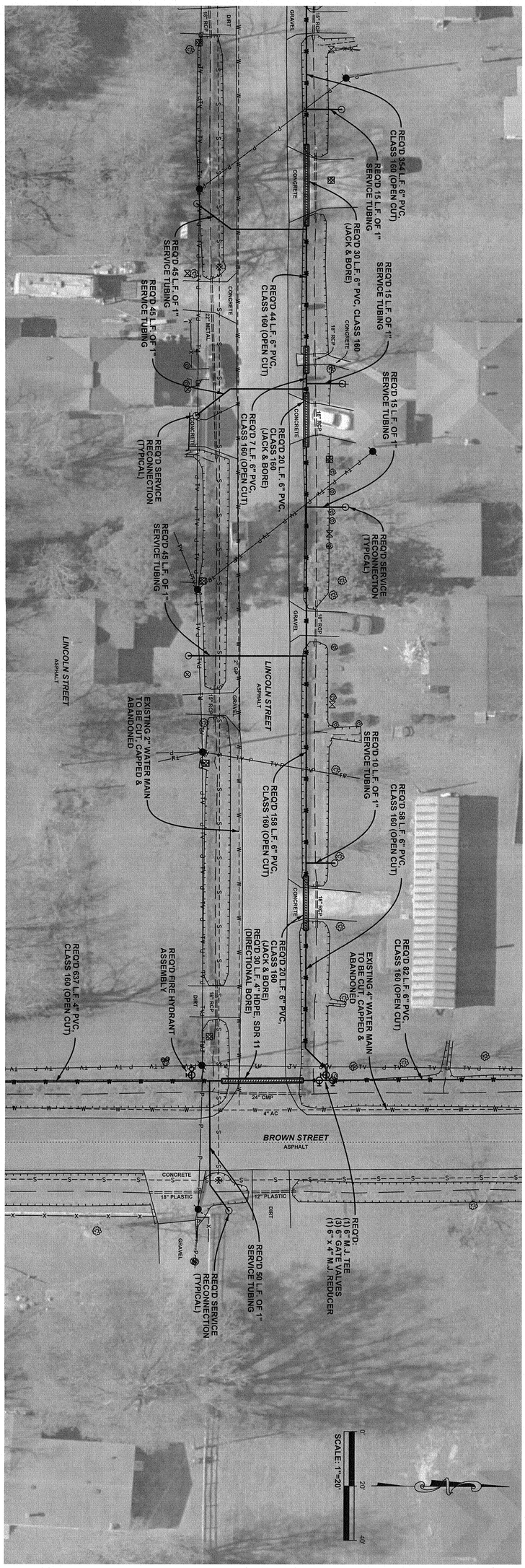

CONTINUES SHEET 7

CONTINUES SHEET 12

CONTINUES SHEET 12

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DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA
JASON T. HORNHILL
REG. NO. 25872
PROFESSIONAL ENGINEER

REVISIONS

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 8.dgn
PROJ NO:	23E09.01
SHEET	8 OF 47

REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 25 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 5 L.F. OF 1" SERVICE TUBING
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 82 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 116 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 45 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 37 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 107 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 2" BLOW OFF ASSEMBLY
REQ'D 5 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 10 L.F. OF 1" SERVICE TUBING
WASHINGTON STREET
ASPHALT
REQ'D 50 L.F. OF 1" SERVICE TUBING
REQ'D 55 L.F. OF 1" SERVICE TUBING
REQ'D 45 L.F. OF 1" SERVICE TUBING
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 45 L.F. OF 1" SERVICE TUBING
EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED
CONCRETE
GRAVEL
15" PLASTIC
18" PLASTIC
12" RCP
15" RCP
18" RCP
2" PVC
ASPHALT
DIRT
0' 20' 40'
SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 6

REQ'D 30 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)
REQ'D 25 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 10 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 67 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 107 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 10 L.F. OF 1" SERVICE TUBING
HIGHLAND ROAD
ASPHALT
REQ'D 25 L.F. 6" PVC, CLASS 160 (JACK & BORE)
REQ'D 58 L.F. 6" PVC, CLASS 160 (OPEN CUT)
REQ'D:
(1) 6" x 4" M.J. TEE
(1) 4" GATE VALVE
(1) 6" GATE VALVE
REQ'D 10 L.F. OF 1" SERVICE TUBING
RECONNECT EXISTING SAMPLE TAP
EXISTING FIRE HYDRANT TO BE REMOVED
REQ'D FIRE HYDRANT ASSEMBLY
REQ'D:
(1) 6" x 4" M.J. TEE
(1) 4" GATE VALVE
(1) 6" GATE VALVE
REQ'D 222 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 5 L.F. OF 1" SERVICE TUBING
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 227 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 45 L.F. OF 1" SERVICE TUBING
REQ'D 40 L.F. OF 1" SERVICE TUBING
REQ'D SERVICE RECONNECTION (TYPICAL)
WASHINGTON STREET
ASPHALT
REQ'D 5 L.F. OF 1" SERVICE TUBING
REQ'D 50 L.F. OF 1" SERVICE TUBING
REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)
EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 50 L.F. OF 1" SERVICE TUBING
REQ'D SERVICE RECONNECTION (TYPICAL)
EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 211 L.F. 6" PVC, CLASS 160 (OPEN CUT)
GRAVEL
CONCRETE
15" PLASTIC
15" RCP
18" RCP
2" PVC
15" METAL
ASPHALT
DIRT
0' 20' 40'
SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 6

CONTINUES SHEET 10

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM
FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
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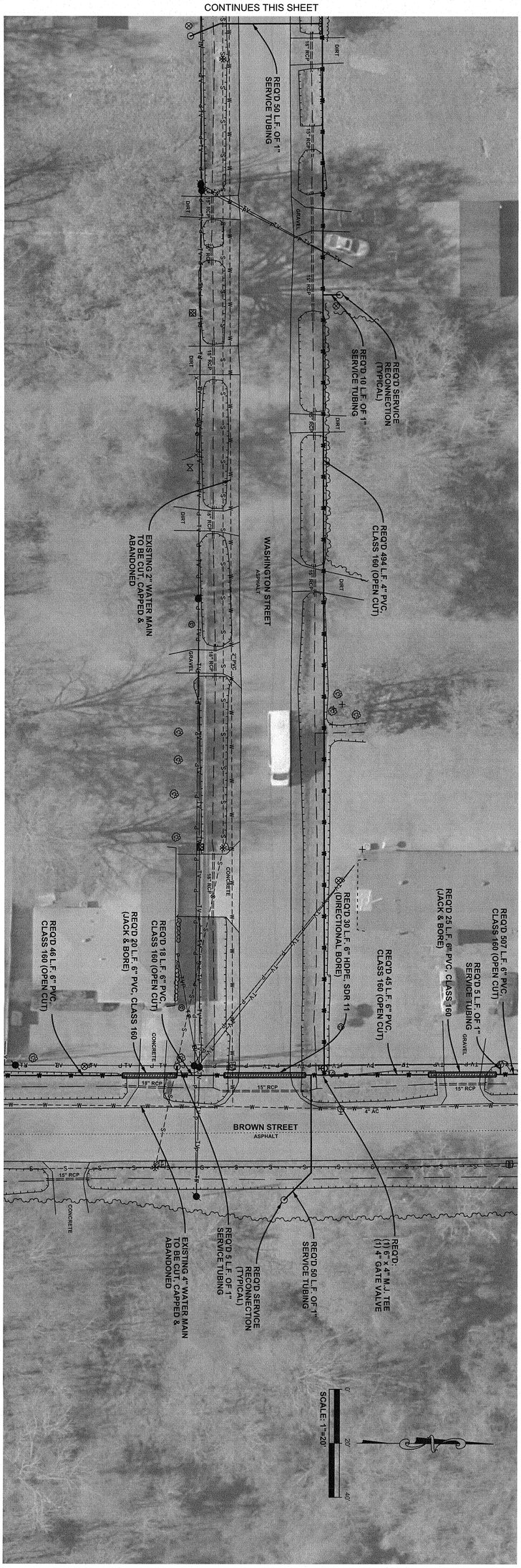
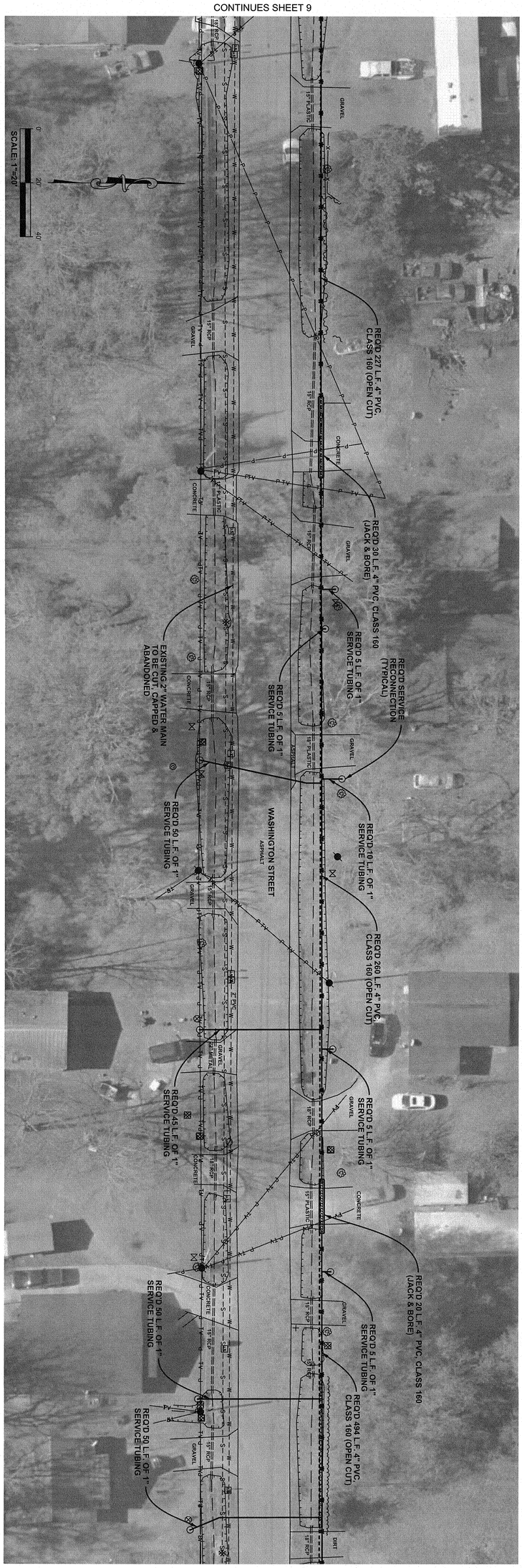
SHEET 9 OF 47





DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA
JAMES T. THORNHILL
REGISTERED
PROFESSIONAL
ENGINEER
11/8/25

REVISIONS

DESIGNED BY: J.T.T.
CKD BY: J.T.T.
DRWN BY: L.L.M.
CKD BY: J.T.T.
DATE: SEPT., 2025
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FILE: Plan Sheet 10.dgn
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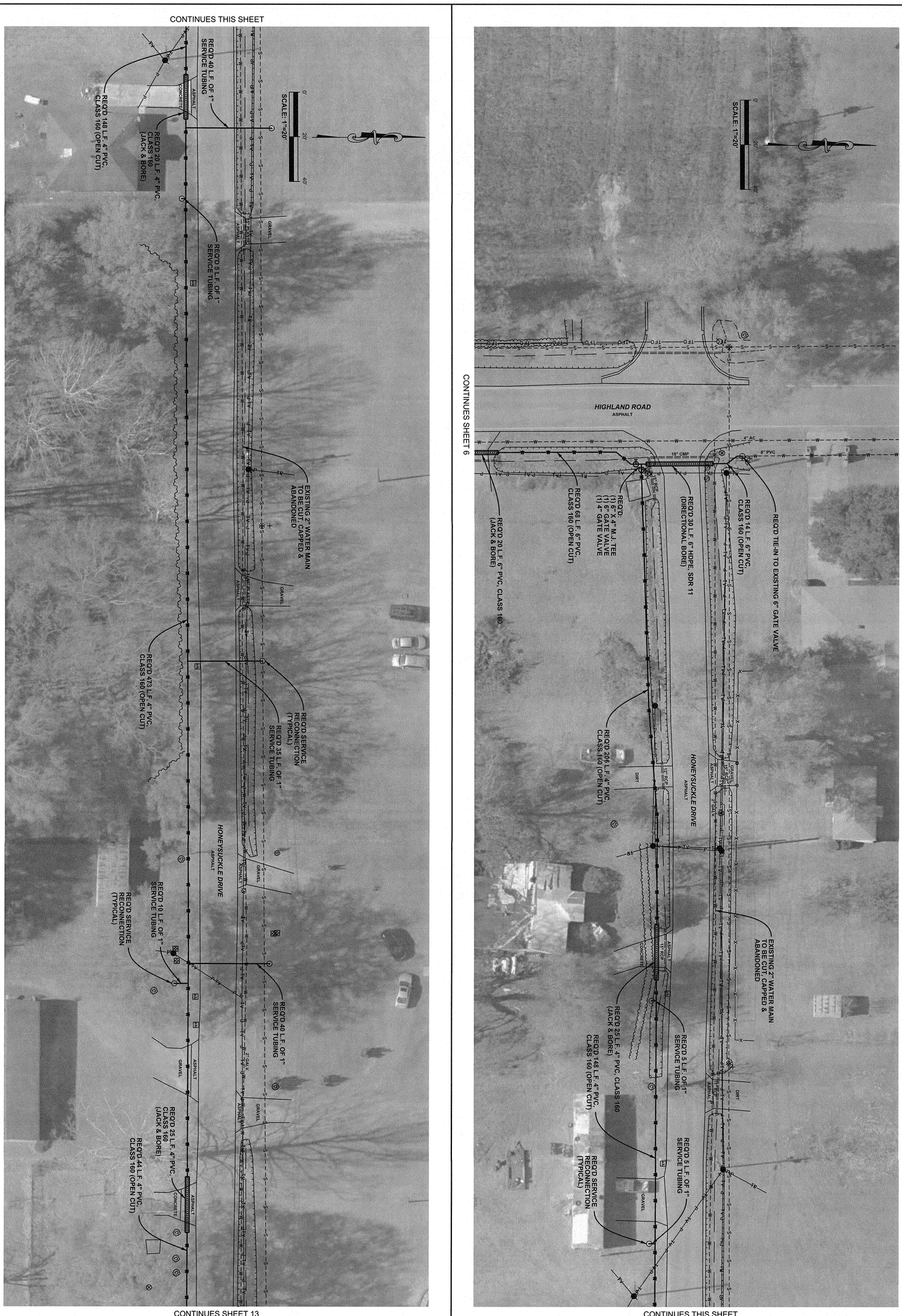
SHEET 10 OF 47



DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA
JASON T. HOPKINS
REG. NO. 28872
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

DESIGNED BY: J.T.T.
CKD BY: J.T.T.
DRWN BY: L.L.M.
CKD BY: J.T.T.
DATE: SEPT., 2025
SCALE: 1" = 20'
FILE: Plan Sheet 11.dgn
PROJ NO: 23E091.01

SHEET 11 OF 47

REQ'D 70 L.F. OF 1" SERVICE TUBING

REQ'D TIE IN TO EXISTING 4" GATE VALVE

REQ'D 170 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 10 L.F. OF 1" SERVICE TUBING

CONCRETE

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

30" CMP

GRAVEL

30" CMP

4" AC

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 637 L.F. 4" PVC, CLASS 160 (OPEN CUT)

BROWN STREET
ASPHALT

24" PLASTIC

CONCRETE

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

18" RCP

CONCRETE

ASPHALT

18" RCP

CONCRETE

REQ'D 50 L.F. OF 1" SERVICE TUBING

0' 20' 40'

SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 8

EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED

LINCOLN STREET
ASPHALT

REQ'D 20 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 58 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 10 L.F. OF 1" SERVICE TUBING

REQ'D 82 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 25 L.F. 6" PVC, CLASS 160 (JACK & BORE)

CONCRETE

18" RCP

REQ'D 46 L.F. 6" PVC, CLASS 160 (OPEN CUT)

CONCRETE

18" RCP

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 637 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D FIRE HYDRANT ASSEMBLY

ASPHALT

24" CMP

4" AC

REQ'D:
(1) 6" M.J. TEE
(3) 6" GATE VALVES
(1) 6" x 4" M.J. REDUCER

REQ'D 82 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 6" PVC, CLASS 160 (JACK & BORE)

BROWN STREET
ASPHALT

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

18" CMP

15" RCP

DIRT

GRAVEL

DIRT

18" RCP

DIRT

15" RCP

ASPHALT

CONCRETE

18" RCP

18" PLASTIC

CONCRETE

GRAVEL

12" PLASTIC

DIRT

12" PLASTIC

DIRT

0' 20' 40'

SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 13

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
9/10/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 12.dgn
PROJ NO:	23E091.01

SHEET 12 OF 47

CONTINUES SHEET 14

CONTINUES SHEET 11

REQ'D 40 L.F. OF 1" SERVICE TUBING

EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 908 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D 77 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 25 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D: (1) 6" x 4" M.J. TEE (2) 6" GATE VALVES (1) 4" GATE VALVE

REQ'D 10 L.F. OF 1" SERVICE TUBING

REQ'D 44 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 10 L.F. OF 1" SERVICE TUBING

REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 196 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D FIRE HYDRANT ASSEMBLY

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 507 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 40 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

HONEYSUCKLE ROAD
ASPHALT

BROWN STREET
ASPHALT

SCALE: 1"=20'

CONTINUES SHEET 14

CONTINUES SHEET 10

CONTINUES SHEET 12

WASHINGTON STREET
ASPHALT

REQ'D 494 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 46 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 5 L.F. OF 1" SERVICE TUBING

REQ'D: (1) 6" x 4" M.J. TEE (1) 4" GATE VALVE

REQ'D 5 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 5 L.F. OF 1" SERVICE TUBING

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 507 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 45 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 25 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 55 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 40 L.F. OF 1" SERVICE TUBING

BROWN STREET
ASPHALT

SCALE: 1"=20'

CONTINUES SHEET 14

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
9/16/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 13.dgn
PROJ NO:	23E091.01

SHEET 13 OF 47

CONTINUES SHEET 13

CONTINUES SHEET 13

REQ'D 196 L.F. 4" PVC, CLASS 160 (OPEN CUT)

HONEYSUCKLE DRIVE
ASPHALT

REQ'D:
(1) 6" x 4" M.J. TEE
(2) 6" GATE VALVES
(1) 4" GATE VALVE

REQ'D 507 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D FIRE HYDRANT ASSEMBLY

REQ'D 25 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 908 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 10 L.F. OF 1" SERVICE TUBING

0' 20' 40'

SCALE: 1"=20'

BROWN STREET
ASPHALT

REQ'D 40 L.F. OF 1" SERVICE TUBING

REQ'D 40 L.F. OF 1" SERVICE TUBING

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 40 L.F. OF 1" SERVICE TUBING

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D 50 L.F. OF 1" SERVICE TUBING

CONTINUES THIS SHEET

CONTINUES SHEET 16

CONTINUES SHEET 16

REQ'D 240 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 104 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D:
(1) 6" x 4" M.J. TEE
(1) 6" GATE VALVE
(1) 4" GATE VALVE

REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D FIRE HYDRANT ASSEMBLY

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 908 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 10 L.F. OF 1" SERVICE TUBING

0' 20' 40'

SCALE: 1"=20'

BROWN STREET
ASPHALT

REQ'D 15 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D:
(1) 6" x 4" M.J. TEE
(1) 6" GATE VALVE
(1) 4" GATE VALVE

REQ'D 30 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D 55 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 22 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 90 L.F. 4" PVC, CLASS 160 (JACK & BORE)

ROBINSON STREET
ASPHALT

CONTINUES THIS SHEET

CONTINUES SHEET 19

CONTINUES SHEET 16

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
8/13/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 14.dgn
PROJ NO:	23E091.01

SHEET 14 OF 47

CONTINUES THIS SHEET

CONTINUES THIS SHEET

CONTINUES SHEET 16

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 15.dgn
PROJ NO:	23E091.01

SHEET 15 OF 47

CONTINUES SHEET 19

CONTINUES SHEET 15

CONTINUES THIS SHEET

CONTINUES SHEET 14

CONTINUES THIS SHEET

CONTINUES SHEET 17

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/16/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

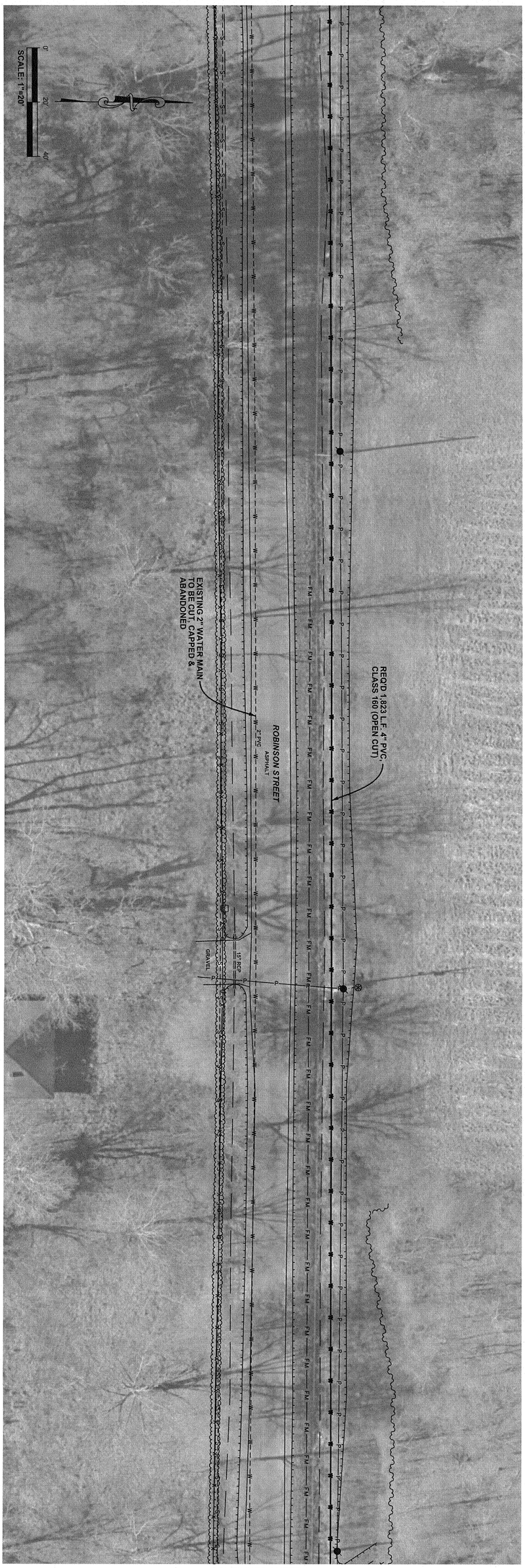
SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 16.dgn
PROJ NO:	23E091.01

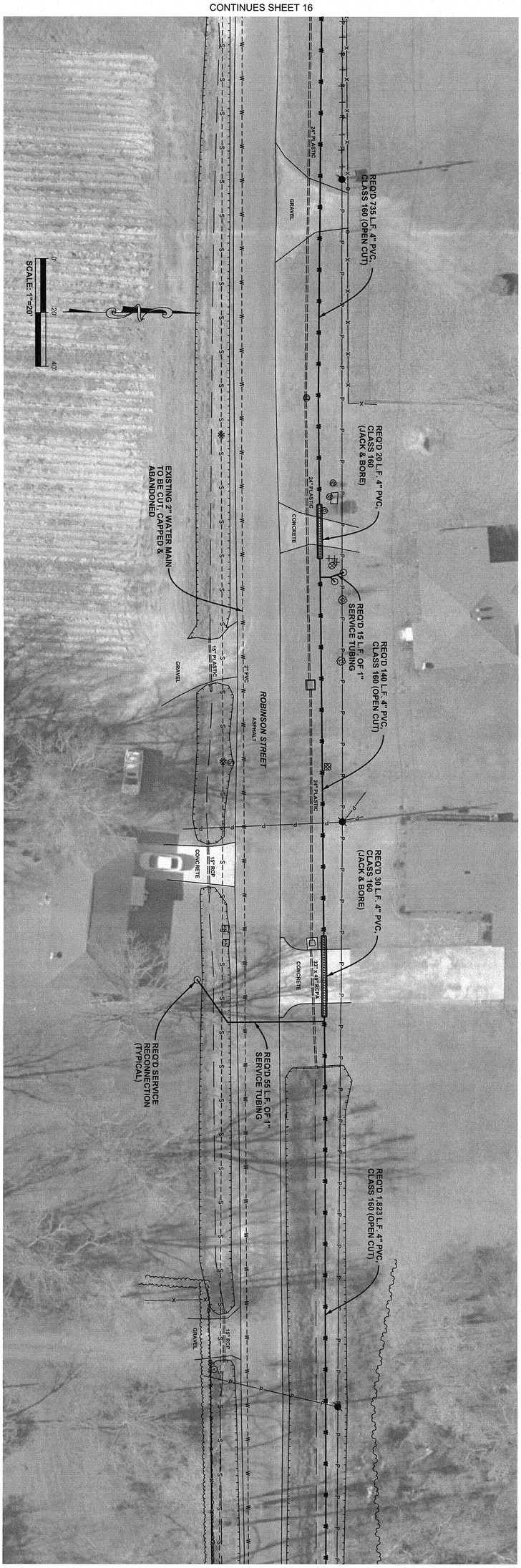
SHEET 16 OF 47

CONTINUES THIS SHEET



CONTINUES SHEET 18

CONTINUES SHEET 16



CONTINUES THIS SHEET

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

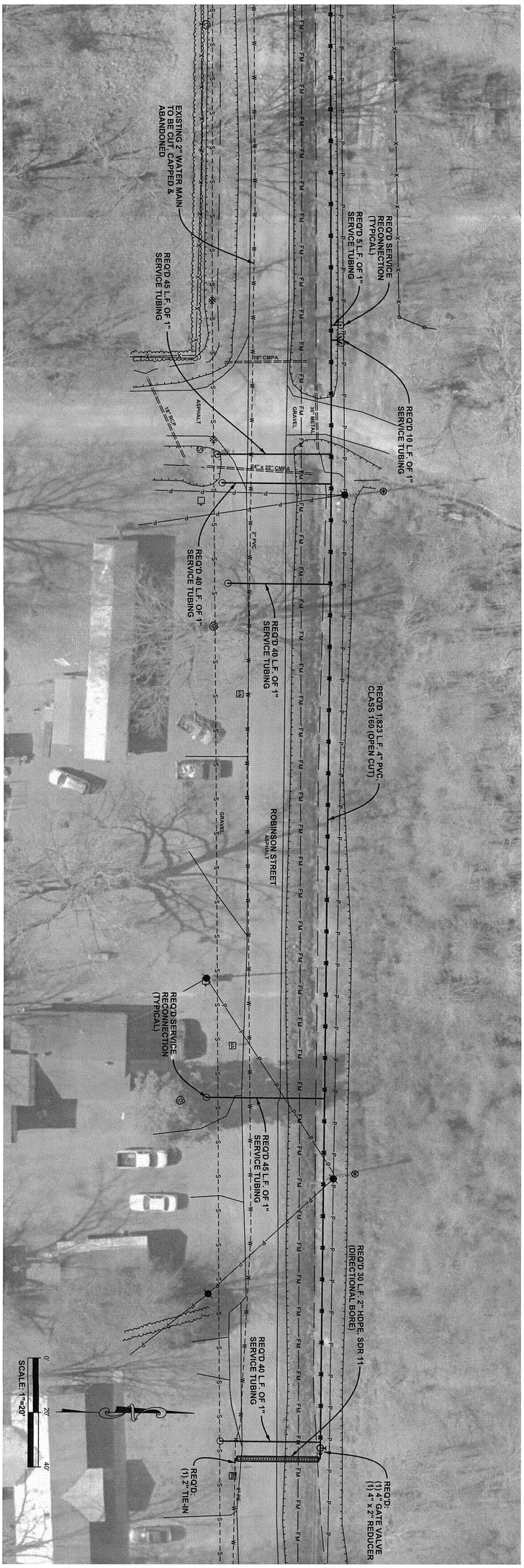
DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 17.dgn
PROJ NO:	23E091.01
SHEET	17 OF 47

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA
JASON T. HORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

CONTINUES THIS SHEET



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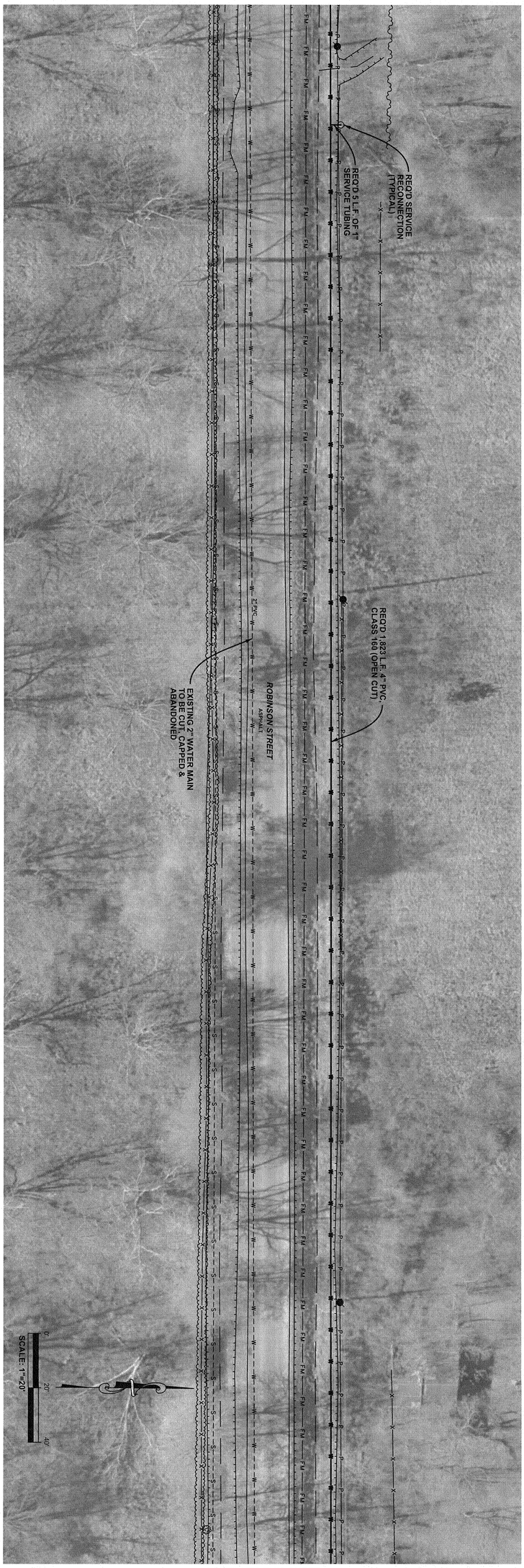


CONTINUES THIS SHEET

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

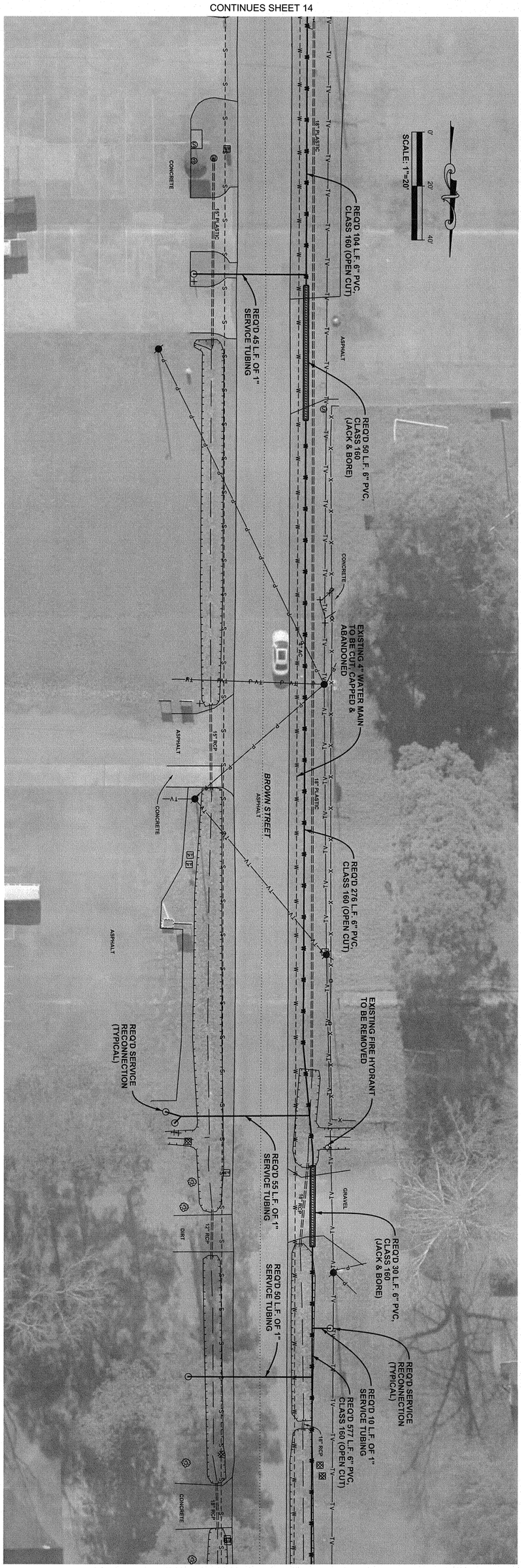
STATE OF LOUISIANA
JASON T. HORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

DESIGNED BY: J.T.T.
CKD BY: J.T.T.
DRWN BY: L.L.M.
CKD BY: J.T.T.
DATE: SEPT., 2025
SCALE: 1" = 20'
FILE: Plan Sheet 18.dgn
PROJ NO: 23E091.01

SHEET 18 OF 47

CONTINUES SHEET 14



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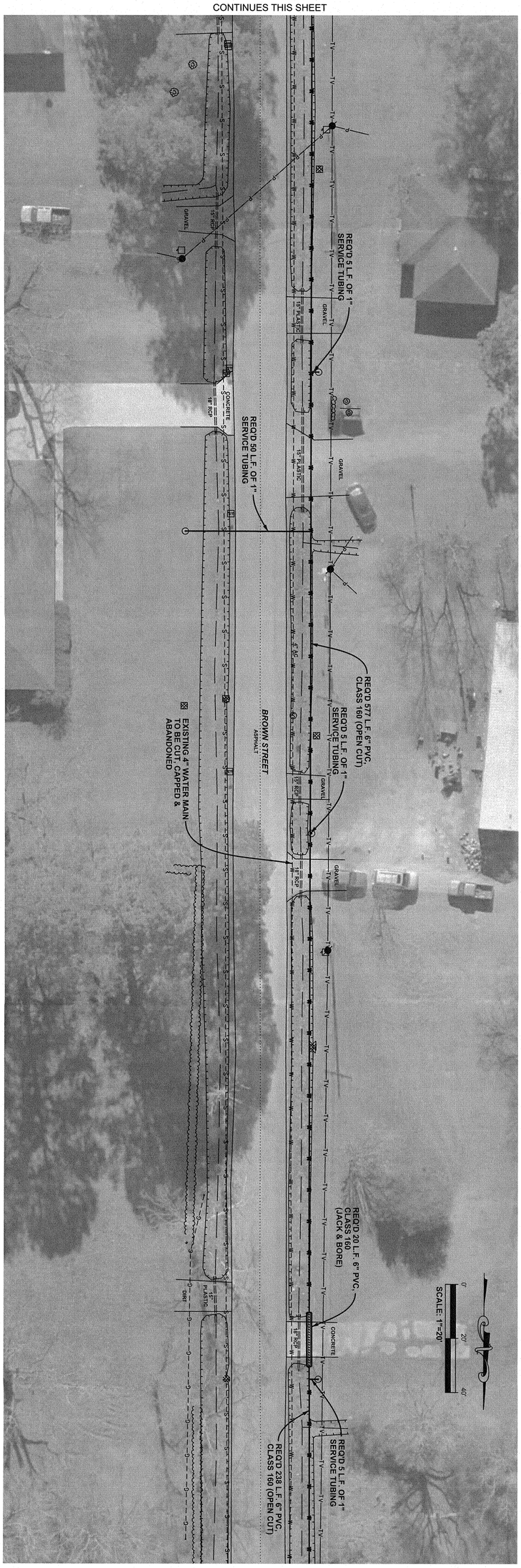
CONTINUES THIS SHEET



CONTINUES SHEET 22

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

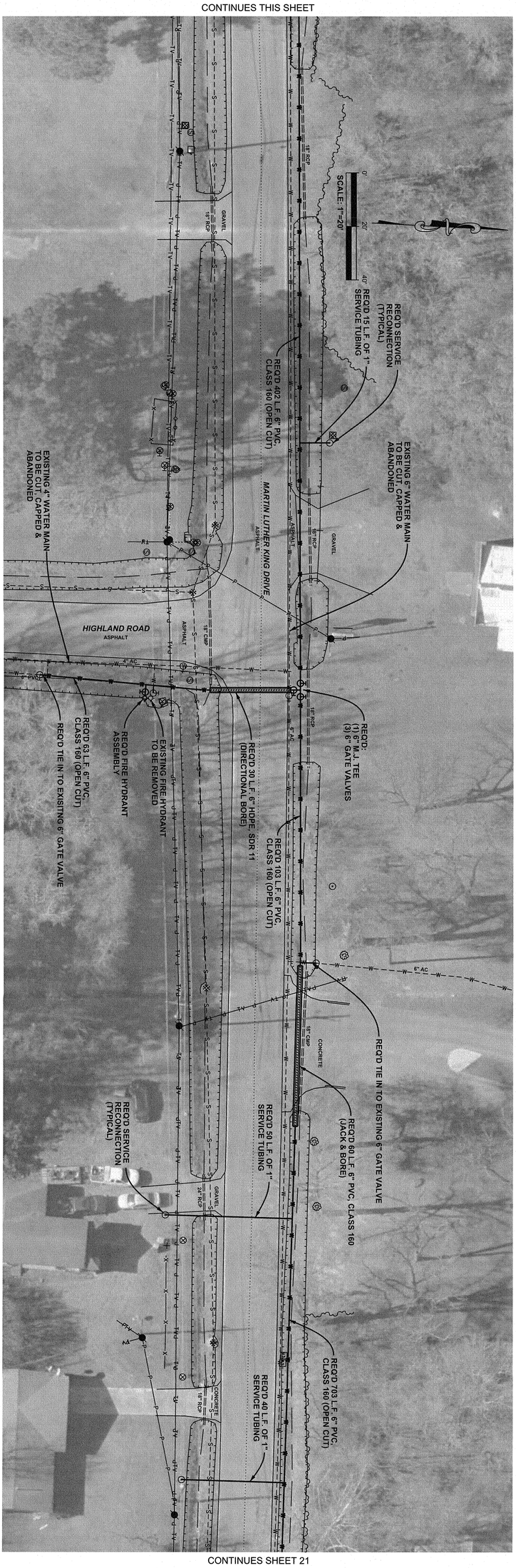
LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

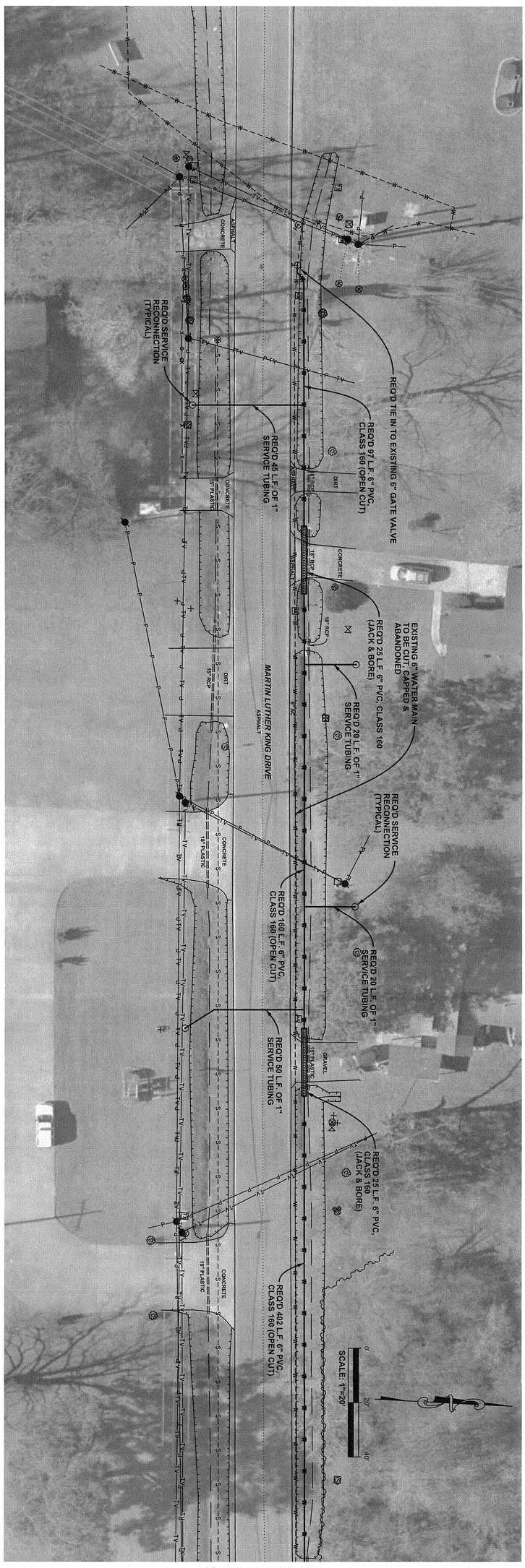
STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
PROFESSIONAL ENGINEER
CIVIL

REVISIONS

DESIGNED BY: J.T.T.
CK'D BY: J.T.T.
DRWN BY: L.L.M.
CK'D BY: J.T.T.
DATE: SEPT., 2025
SCALE: 1" = 20'
FILE: Plan Sheet 19.dgn
PROJ NO: 23E09.101

SHEET 19 OF 47





DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA — JOHN T. THOMPSON — REG. NO. 25892 — REGISTERED PROFESSIONAL ENGINEER — CIVIL

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 20.dgn
PROJ NO:	23E091.01
SHEET	20 OF 47

REVISIONS

CONTINUES SHEET 20

CONCRETE
18" RCP
15" RCP
6" AC
REQ'D 703 L.F. 6" PVC, CLASS 160 (OPEN CUT)
EXISTING 6" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 45 L.F. OF 1" SERVICE TUBING
MARTIN LUTHER KING DRIVE
ASPHALT
REQ'D 25 L.F. 6" PVC, CLASS 160 (JACK & BORE)
CONCRETE
24" RCP
18" RCP
DIRT
REQ'D SERVICE RECONNECTION (TYPICAL)
0' 20' 40'
SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 22

REQ'D 322 L.F. 6" PVC, CLASS 160 (OPEN CUT)
REQ'D 20 L.F. 6" PVC, CLASS 160 (JACK & BORE)
REQ'D 25 L.F. 6" PVC, CLASS 160 (JACK & BORE)
REQ'D 48 L.F. 6" PVC, CLASS 160 (OPEN CUT)
REQ'D 10 L.F. OF 1" SERVICE TUBING
EXISTING 6" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 65 L.F. OF 1" SERVICE TUBING
BROWN STREET
ASPHALT
DIRT
24" RCP
0' 20' 40'
SCALE: 1"=20'
GRAVEL
ASPHALT
18" RCP
CONCRETE
6" AC
30" PLASTIC
42" CMP
15" RCP
REQ'D 703 L.F. 6" PVC, CLASS 160 (OPEN CUT)
REQ'D 124 L.F. 6" PVC, CLASS 160 (OPEN CUT)
REQ'D 172 L.F. 6" PVC, CLASS 160 (OPEN CUT)
REQ'D TIE IN TO EXISTING 6" GATE VALVE
REQ'D: (1) 6" TIE-IN (1) 6" GATE VALVE
MARTIN LUTHER KING DRIVE
REQ'D 20 L.F. 6" PVC, CLASS 160 (JACK & BORE)
REQ'D 40 L.F. OF 1" SERVICE TUBING
REQ'D 40 L.F. OF 1" SERVICE TUBING
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D: (1) 6" TIE-IN (1) 6" GATE VALVE
EXISTING FIRE HYDRANT TO BE REMOVED
REQ'D FIRE HYDRANT ASSEMBLY
REQ'D 238 L.F. 6" PVC, CLASS 160 (OPEN CUT)
EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 60 L.F. OF 1" SERVICE TUBING

CONTINUES THIS SHEET

CONTINUES SHEET 22

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/6/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

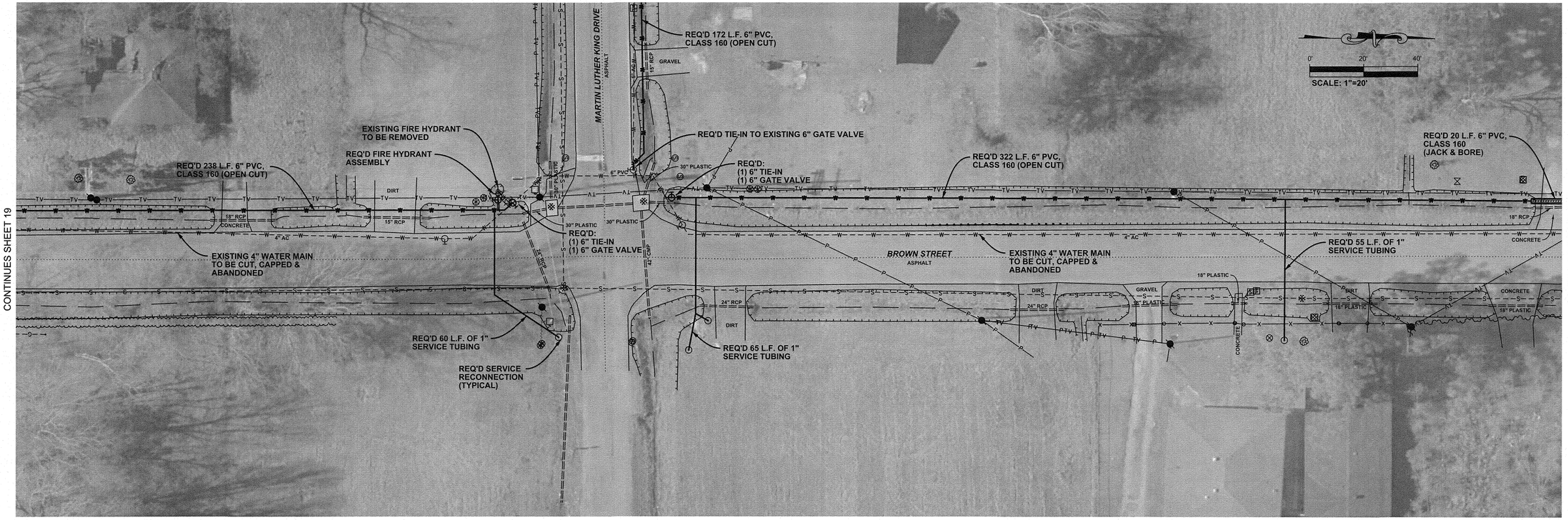
SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 21.dgn
PROJ NO:	23E091.01
SHEET	21 OF 47

CONTINUES SHEET 21

CONTINUES SHEET 19



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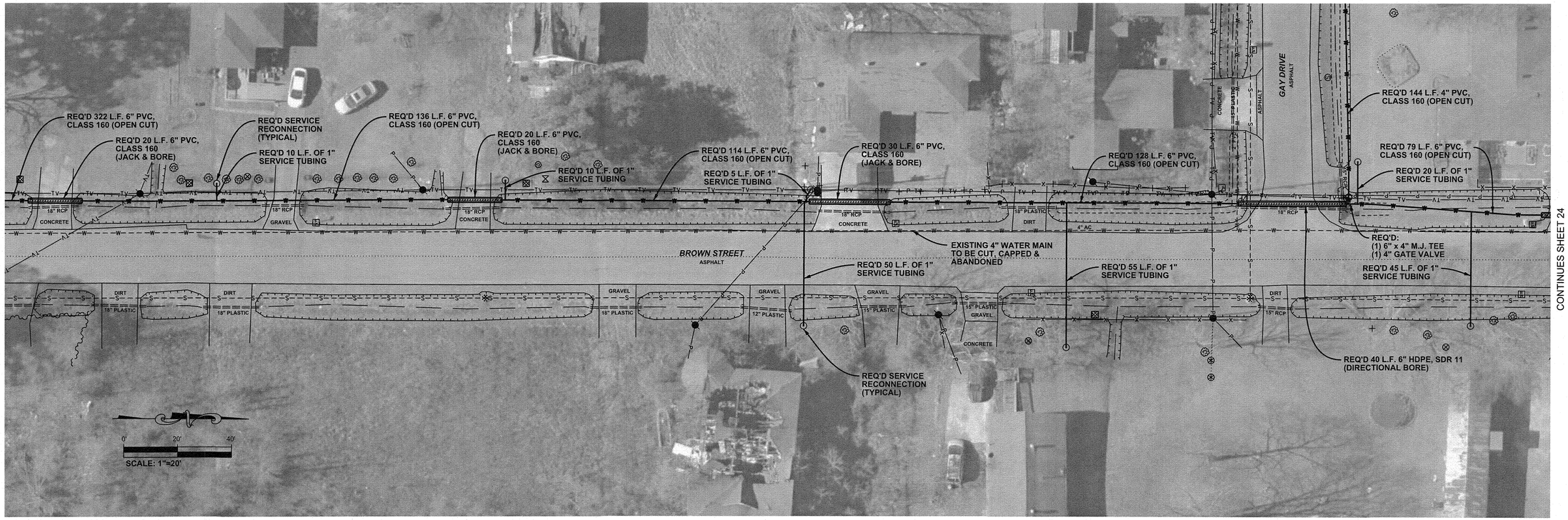
CONTINUES SHEET 23

CONTINUES THIS SHEET



CONTINUES SHEET 24

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

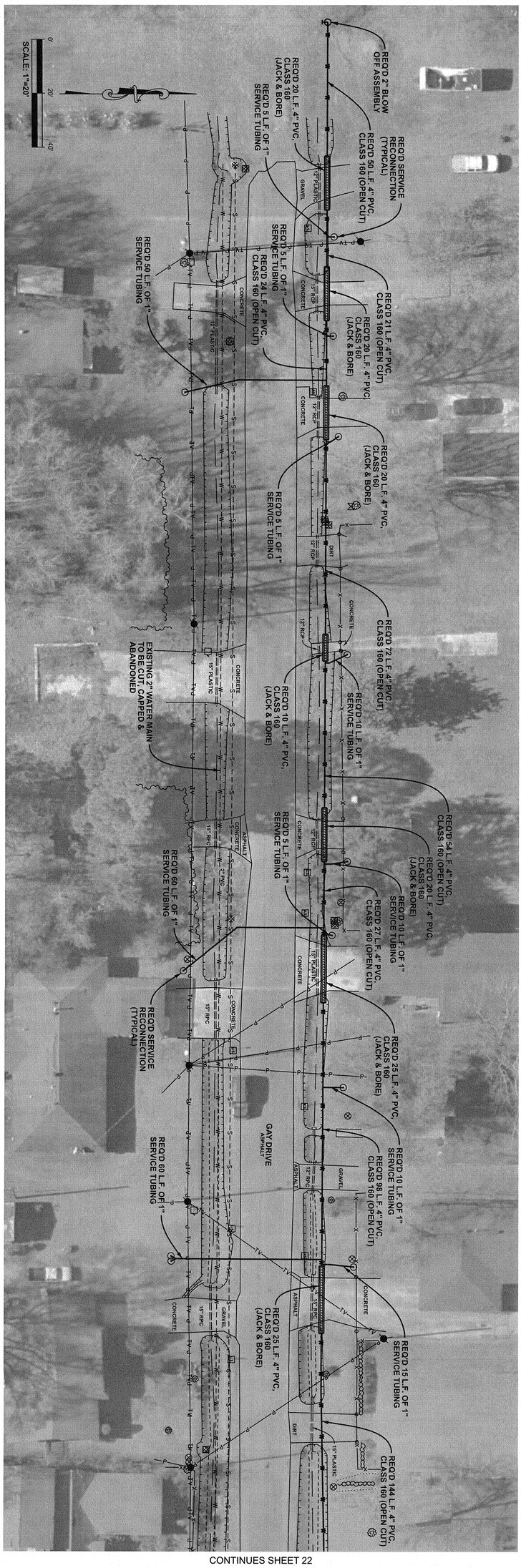
DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 22.dgn
PROJ NO:	23E091.01

SHEET 22 OF 47



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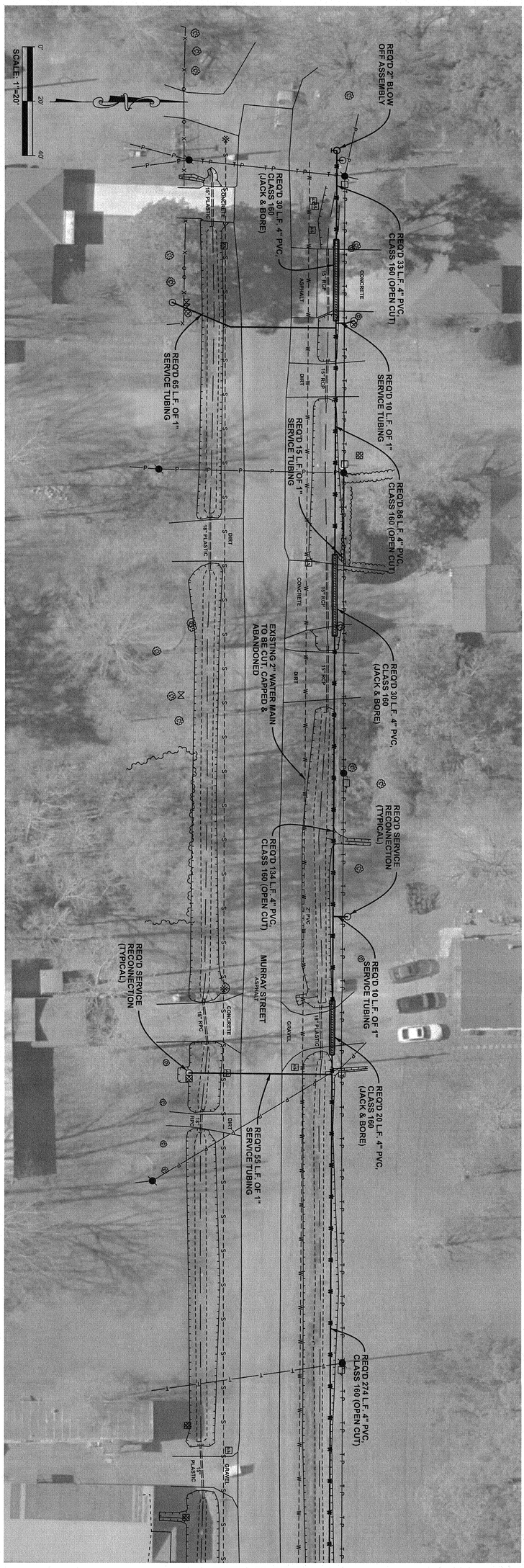

CONTINUES SHEET 24

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
PROFESSIONAL ENGINEER

REVISIONS

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 23.dgn
PROJ NO:	23E091.01
SHEET	23 OF 47

CONTINUES SHEET 23

CONTINUES SHEET 22

CONTINUES SHEET 31

CONTINUES SHEET 25

CONTINUES SHEET 30

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 24.dgn
PROJ NO:	23E091.01

SHEET 24 OF 47

CONTINUES SHEET 24

REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 57 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 15 L.F. OF 1" SERVICE TUBING
EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 96 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 70 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 51 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D:
(1) 4" M.J. TEE
(2) 4" GATE VALVES
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 18 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 47 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 25 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)
REQ'D 40 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 78 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 20 L.F. OF 1" SERVICE TUBING
REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 59 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 40 L.F. OF 1" SERVICE TUBING
LYNN DRIVE ASPHALT
PAULA DRIVE ASPHALT
EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 80 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 5 L.F. OF 1" SERVICE TUBING
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 45 L.F. OF 1" SERVICE TUBING

0' 20' 40'
SCALE: 1"=20'

CONTINUES SHEET 26

CONTINUES THIS SHEET

CONTINUES THIS SHEET

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 20 L.F. OF 1" SERVICE TUBING
REQ'D 59 L.F. 4" PVC, CLASS 160 (OPEN CUT)
EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 44 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 40 L.F. OF 1" SERVICE TUBING
REQ'D 5 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 150 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)
REQ'D SERVICE RECONNECTION (TYPICAL)
REQ'D 98 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 45 L.F. OF 1" SERVICE TUBING
REQ'D 40 L.F. OF 1" SERVICE TUBING
REQ'D 51 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)
REQ'D 147 L.F. 4" PVC, CLASS 160 (OPEN CUT)
REQ'D 10 L.F. OF 1" SERVICE TUBING
REQ'D 15 L.F. OF 1" SERVICE TUBING
REQ'D 40 L.F. OF 1" SERVICE TUBING
REQ'D 40 L.F. OF 1" SERVICE TUBING
LYNN DRIVE ASPHALT

0' 20' 40'
SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 28

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/16/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 25.dgn
PROJ NO:	23E091.01

SHEET 25 OF 47

CONTINUES SHEET 25

CONTINUES SHEET 27

CONTINUES SHEET 25

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
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DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 26.dgn
PROJ NO:	23E091.01

SHEET 26 OF 47

CONTINUES SHEET 26

CONTINUES THIS SHEET

CONTINUES SHEET 28

CONTINUES THIS SHEET

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
7/8/25

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2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

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SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
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OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
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DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 27.dgn
PROJ NO:	23E091.01

SHEET 27 OF 47

CONTINUES SHEET 27

CONTINUES SHEET 25

CONTINUES SHEET 30

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STATE OF LOUISIANA
JASON T. THRASHER
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9/8/25

REVISIONS

DESIGNED BY: J.T.T.
CK'D BY: J.T.T.
DRWN BY: L.L.M.
CK'D BY: J.T.T.
DATE: SEPT., 2025
SCALE: 1" = 20'
FILE: Plan Sheet 28.dgn
PROJ NO: 23E09.01
SHEET 28 OF 47

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL
ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 29.dgn
PROJ NO:	23E091.01
SHEET	29 OF 47

CONTINUES SHEET 24

CONTINUES THIS SHEET

REQ'D 776 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D 40 L.F. OF 1" SERVICE TUBING

REQ'D 40 L.F. OF 1" SERVICE TUBING

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D SERVICE RECONNECTION (TYPICAL)

SHAMLIN STREET

0' 20' 40'

SCALE: 1"=20'

CONTINUES SHEET 29

CONTINUES SHEET 29

CONTINUES THIS SHEET

CONTINUES SHEET 28

REQ'D 276 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 35 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 776 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 40 L.F. OF 1" SERVICE TUBING

REQ'D: (1) 4" M.J. TEE (3) 4" GATE VALVES

REQ'D 26 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 10 L.F. OF 1" SERVICE TUBING

REQ'D 51 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 10 L.F. OF 1" SERVICE TUBING

REQ'D 37 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 70 L.F. 4" PVC, CLASS 160 (OPEN CUT)

EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 30 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 125 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 53 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D: (1) 4" M.J. TEE (1) 4" GATE VALVE

REQ'D 33 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 45 L.F. OF 1" SERVICE TUBING

EXISTING FIRE HYDRANT TO BE REMOVED

HAMMACK STREET

TANNER STREET

SHAMLIN STREET

0' 20' 40'

SCALE: 1"=20'

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
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CIVIL ENGINEERING
7/8/25

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CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 30.dgn
PROJ NO:	23E091.01
SHEET	30 OF 47

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
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2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 31.dgn
PROJ NO:	23E091.01

SHEET 31 OF 47

CONTINUES SHEET 33

CONTINUES SHEET 34

CONTINUES THIS SHEET

DAVENPORT CIRCLE
ASPHALT

REQ'D 233 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D:
(1) 6" x 4" M.J. TEE
(1) 4" GATE VALVE

REQ'D FIRE HYDRANT ASSEMBLY

REQ'D 267 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 35 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 5 L.F. OF 1" SERVICE TUBING

REQ'D 30 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 5 L.F. OF 1" SERVICE TUBING

REQ'D 20 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 10 L.F. OF 1" SERVICE TUBING

REQ'D 233 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

RICHWOOD ROAD NO. 1
ASPHALT

REQ'D 54 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 46 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 115 L.F. 6" PVC, CLASS 160 (OPEN CUT)

EXISTING 6" WATER MAIN TO BE CUT, CAPPED & ABANDONED

24" RCP
18" RCP
15" RCP
CONCRETE
ASPHALT
6" AC
15" PLASTIC

0' 20' 40'
SCALE: 1"=20'

REQ'D 115 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 5 L.F. OF 1" SERVICE TUBING

REQ'D 25 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 30 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 150 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 35 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 50 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 76 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 6 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 45 L.F. OF 1" SERVICE TUBING

RICHWOOD ROAD NO. 1
ASPHALT

REQ'D 35 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 30 L.F. 6" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D 39 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D TIE IN TO EXISTING 6" GATE VALVE

EMERGENCY CONNECTION MASTER METER

REQ'D:
(1) 4" x 3" REDUCER
(1) TIE IN

EXISTING 6" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 65 L.F. OF 1" SERVICE TUBING

24" PVC (CITY OF MONROE)
6" PVC
6" SP
FM

0' 20' 40'
SCALE: 1"=20'

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
7/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
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DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 32.dgn
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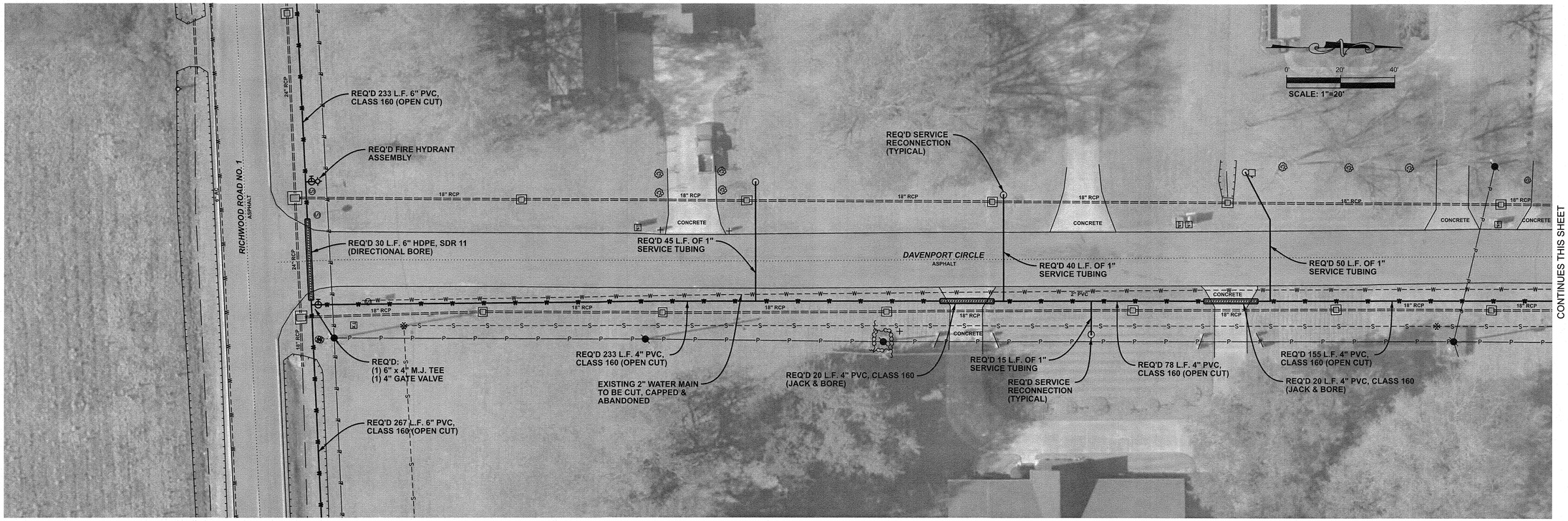
SHEET 32 OF 47

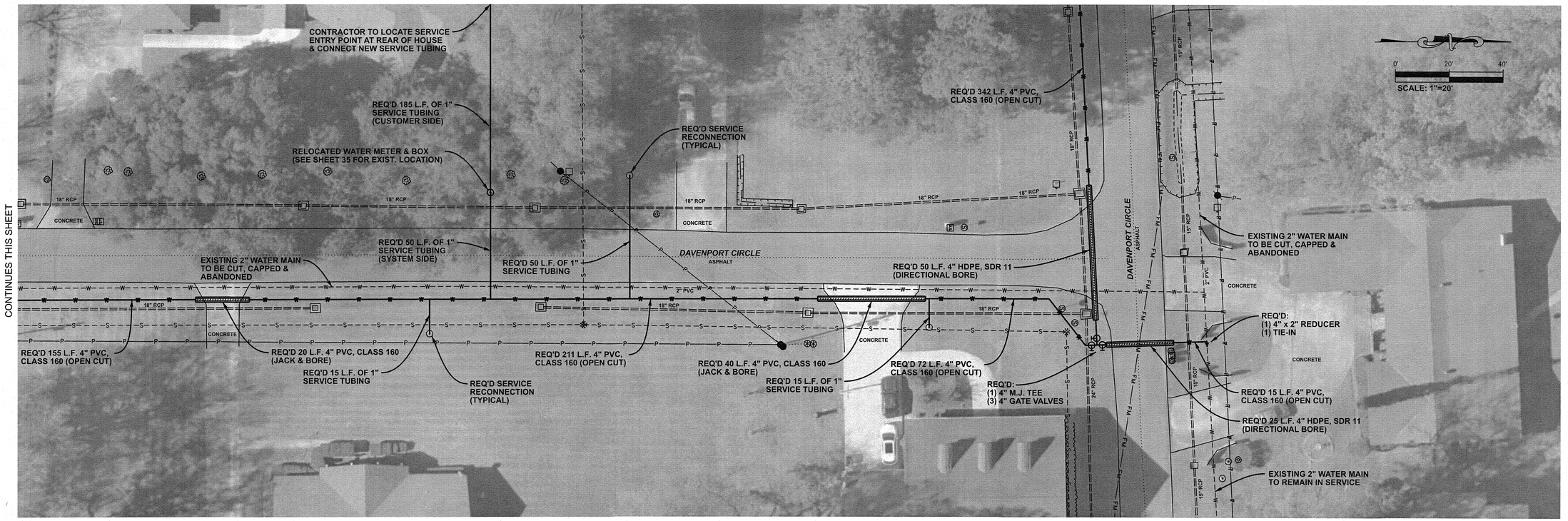
CONTINUES SHEET 34



CONTINUES SHEET 32

CONTINUES THIS SHEET

CONTINUES SHEET 35



CONTINUES THIS SHEET

CONTINUES SHEET 35

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
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DATE:	SEPT., 2025
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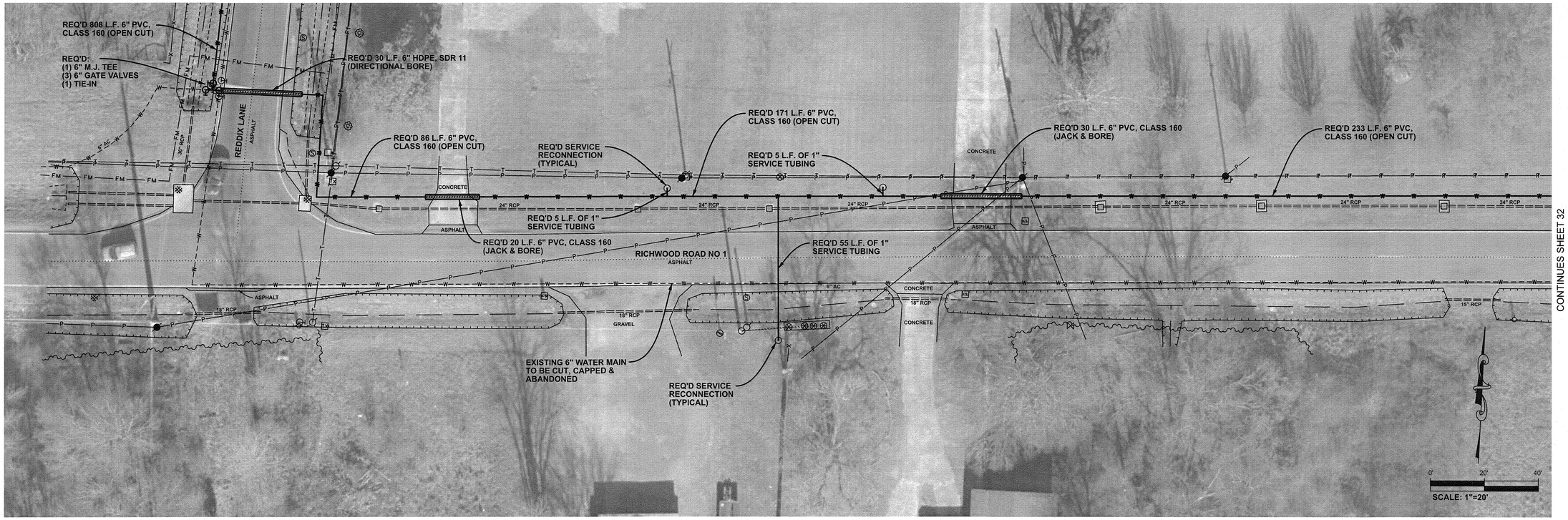
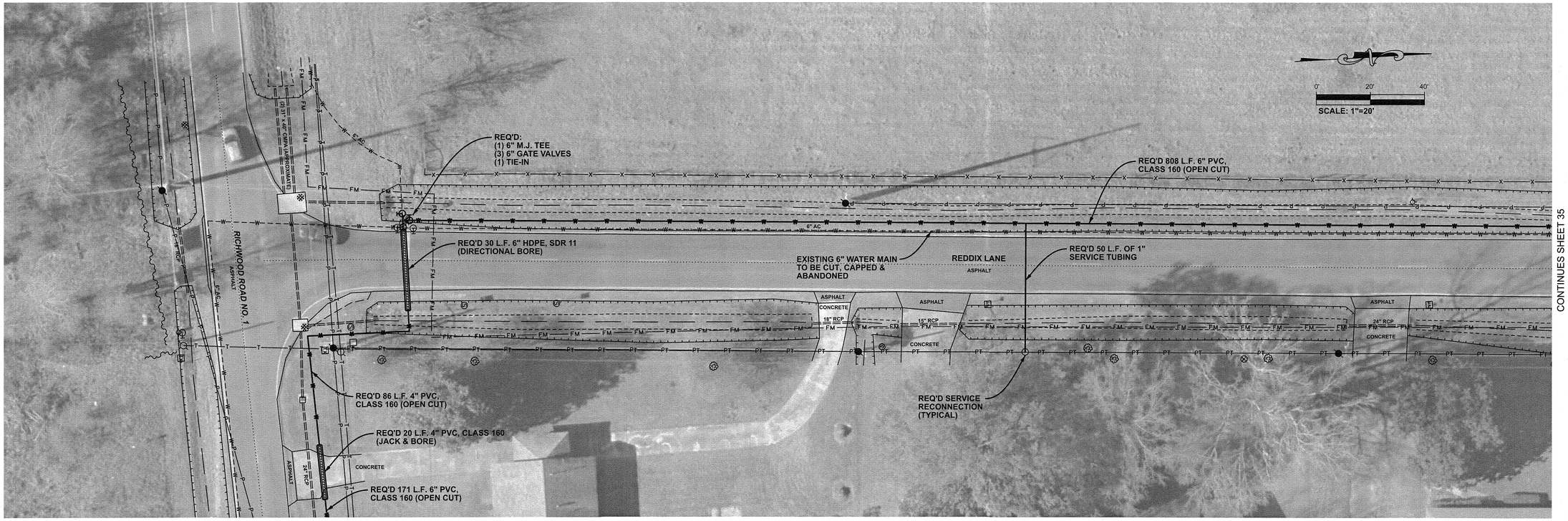
FILE:	Plan Sheet 33.dgn
PROJ NO:	23E091.01

SHEET 33 OF 47

CONTINUES THIS SHEET



CONTINUES SHEET 32



CONTINUES SHEET 35

CONTINUES THIS SHEET

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
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OUACHITA PARISH, LOUISIANA

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DATE:	SEPT., 2025
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SHEET 34 OF 47

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/9/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

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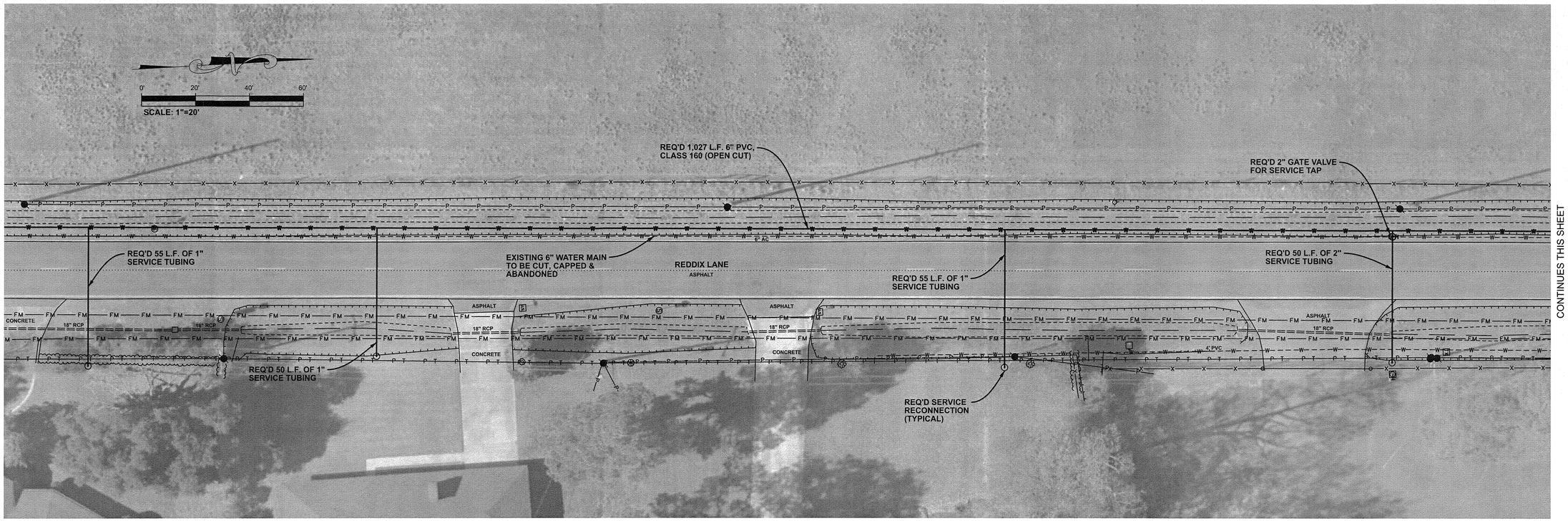
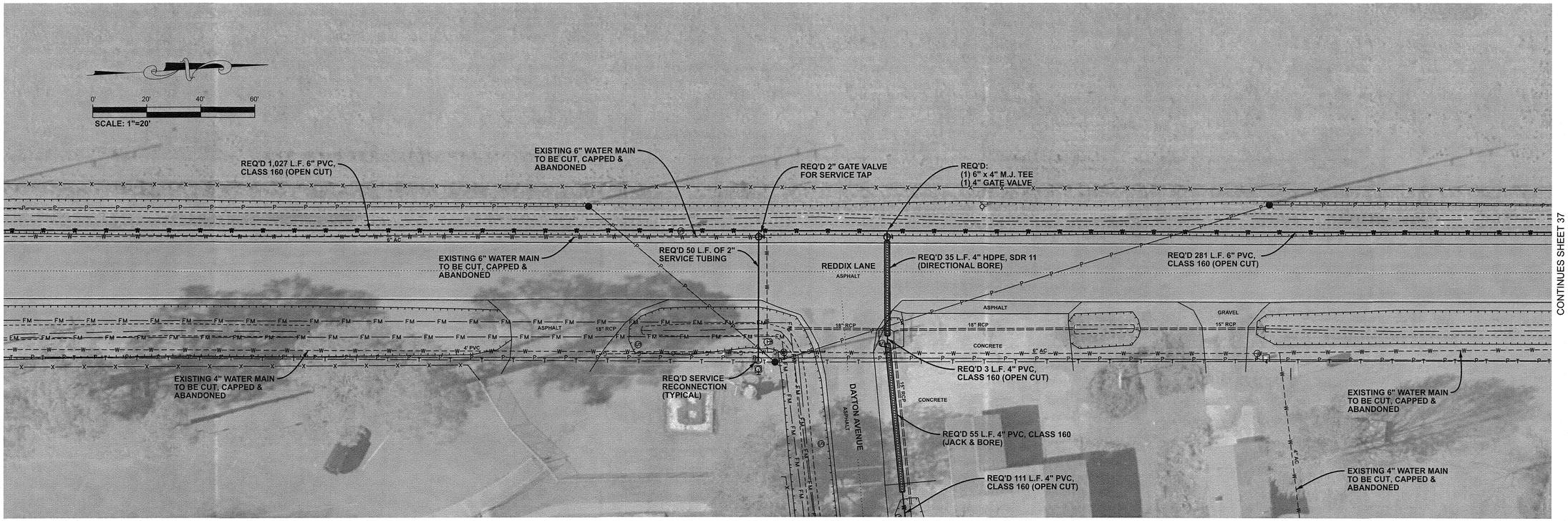
SHEET 35 OF 47





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STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
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DATE:	SEPT., 2025
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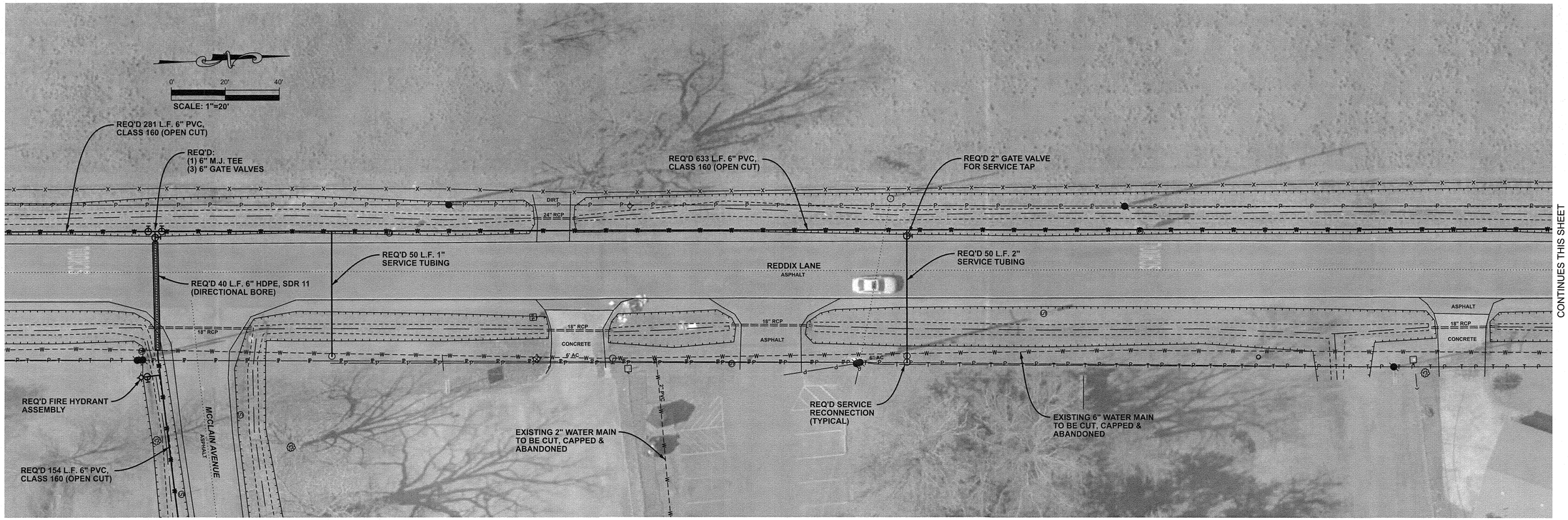
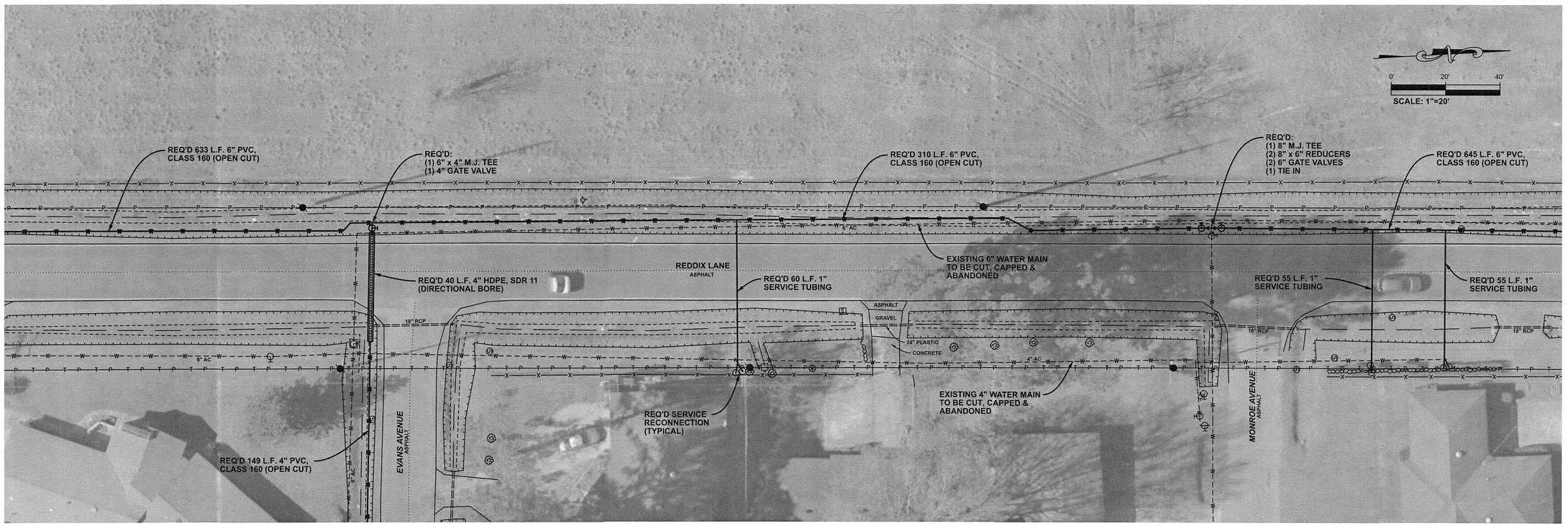
FILE:	Plan Sheet 36.dgn
PROJ NO:	23E091.01
SHEET	36 OF 47





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DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 37.dgn
PROJ NO:	23E091.01

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REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
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FILE:	Plan Sheet 38.dgn
PROJ NO:	23E091.01

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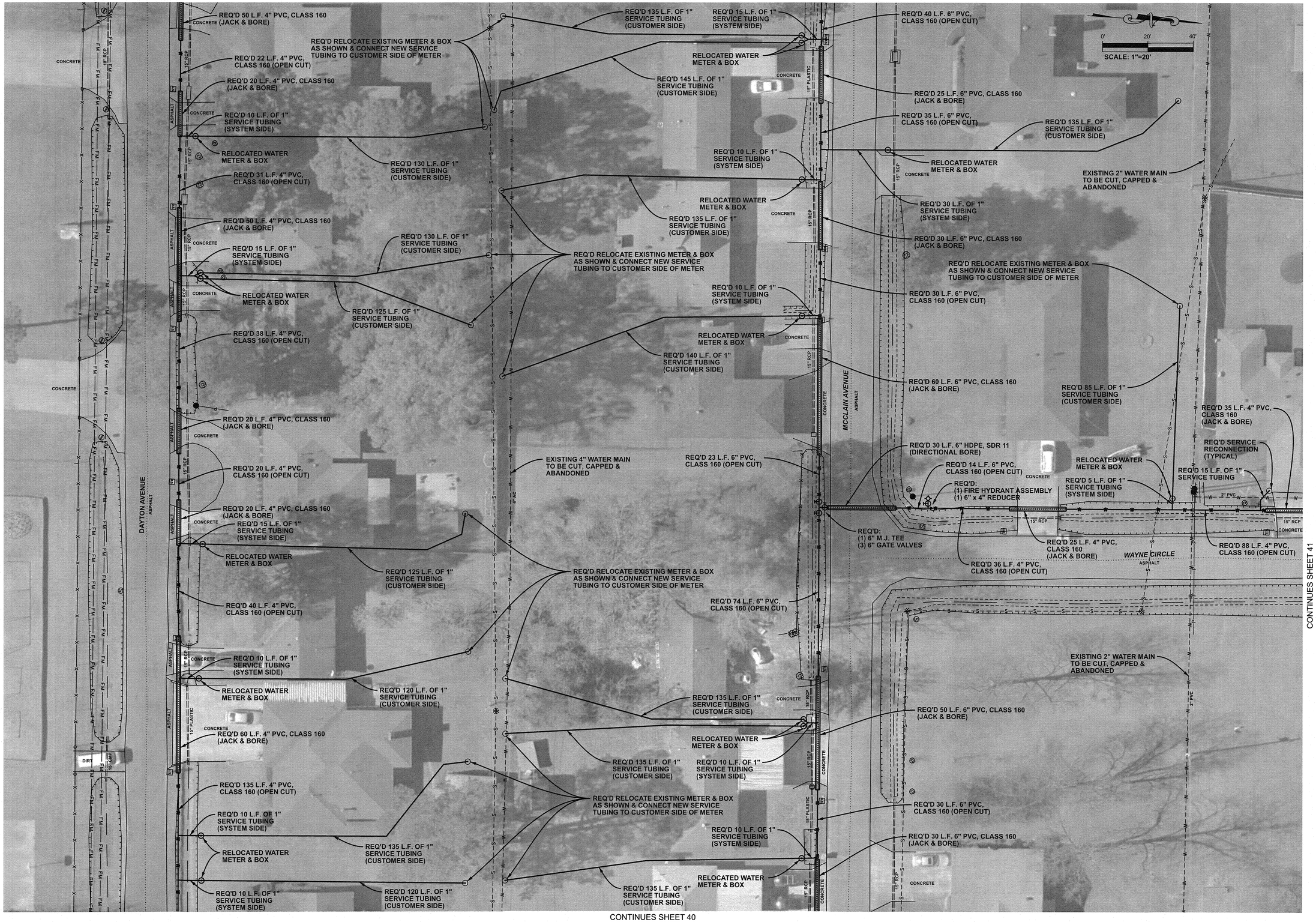

CONTINUES SHEET 41

CONTINUES SHEET 40

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 39.dgn
PROJ NO:	23E091.01
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REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
9/16/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 40.dgn
PROJ NO:	23E091.01
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REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
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FILE:	Plan Sheet 41.dgn
PROJ NO:	23E091.01

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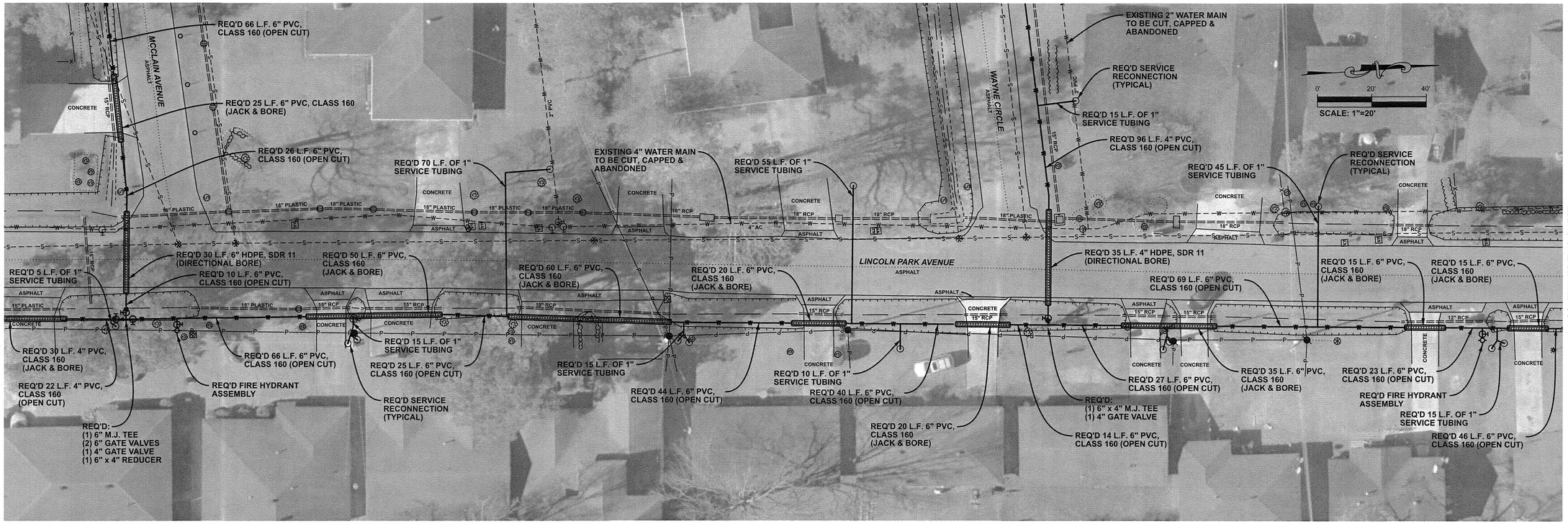

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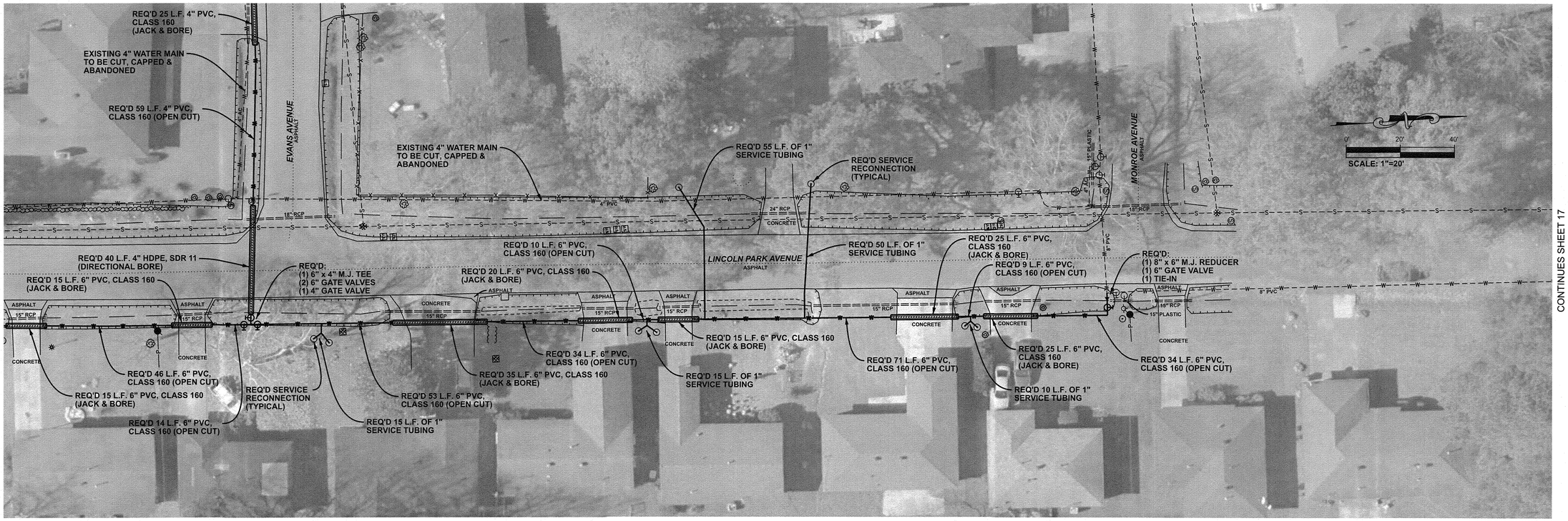

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REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN LOUISIANA
CIVIL ENGINEERING
4/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM
FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 42.dgn
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SHEET 42 OF 47

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REQ'D 149 L.F. 4" PVC, CLASS 160 (OPEN CUT)

EXISTING 6" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 15 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D 41 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. OF 1" SERVICE TUBING

REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

EVANS AVENUE

REQ'D 35 L.F. 4" PVC, CLASS 160 (OPEN CUT)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 25 L.F. OF 1" SERVICE TUBING

REQ'D 25 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 21 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 40 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 55 L.F. OF 1" SERVICE TUBING

REQ'D 39 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. OF 1" SERVICE TUBING

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 51 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D 18 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 15 L.F. OF 1" SERVICE TUBING

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

0' 20' 40'

SCALE: 1"=20'

CONTINUES THIS SHEET

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REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D 35 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 30 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 15 L.F. OF 1" SERVICE TUBING

REQ'D 22 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 50 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 43 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

EVANS AVENUE

REQ'D 42 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 39 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. OF 1" SERVICE TUBING

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 79 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 20 L.F. OF 1" SERVICE TUBING

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 45 L.F. OF 1" SERVICE TUBING

REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 12 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 59 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)

REQ'D 40 L.F. 4" HDPE, SDR 11 (DIRECTIONAL BORE)

REQ'D:
(1) 6" x 4" M.J. TEE
(2) 6" GATE VALVES
(1) 4" GATE VALVE

REQ'D 14 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 15 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 46 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REQ'D 34 L.F. 6" PVC, CLASS 160 (OPEN CUT)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 35 L.F. 6" PVC, CLASS 160 (JACK & BORE)

REQ'D 53 L.F. 6" PVC, CLASS 160 (OPEN CUT)

LINCOLN PARK AVENUE

REQ'D 15 L.F. OF 1" SERVICE TUBING

0' 20' 40'

SCALE: 1"=20'

CONTINUES THIS SHEET

CONTINUES SHEET 42

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
JR. CIVIL ENGINEERING
7/6/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 43.dgn
PROJ NO:	23E091.01

SHEET 43 OF 47

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REQ'D 20 L.F. 4" PVC, CLASS 160 (JACK & BORE)

CONCRETE

RELOCATED WATER METER & BOX

REQ'D 5 L.F. OF 1" SERVICE TUBING (SYSTEM SIDE)

REQ'D 39 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 195 L.F. OF 1" SERVICE TUBING (CUSTOMER SIDE)

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 40 L.F. 4" PVC, CLASS 160 (JACK & BORE)

CONCRETE

REQ'D 40 L.F. OF 1" SERVICE TUBING

SCALE: 1"=20'

REQ'D 50 L.F. OF 1" SERVICE TUBING (SYSTEM SIDE)

RELOCATED WATER METER & BOX

REQ'D 165 L.F. OF 1" SERVICE TUBING (CUSTOMER SIDE)

REQ'D RELOCATE EXISTING METER & BOX AS SHOWN & CONNECT NEW SERVICE TUBING TO CUSTOMER SIDE OF METER

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

RELOCATED WATER METER & BOX

REQ'D 5 L.F. OF 1" SERVICE TUBING (SYSTEM SIDE)

EXISTING 2" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 82 L.F. 4" PVC, CLASS 160 (OPEN CUT)

REQ'D 130 L.F. OF 1" SERVICE TUBING (CUSTOMER SIDE)

REQ'D 25 L.F. 4" PVC, CLASS 160 (JACK & BORE)

CONCRETE

REQ'D 645 L.F. 6" PVC, CLASS 160 (OPEN CUT)

EXISTING 6" WATER MAIN TO BE CUT, CAPPED & ABANDONED

CONCRETE

REQ'D RELOCATE EXISTING METER & BOX AS SHOWN & CONNECT NEW SERVICE TUBING TO CUSTOMER SIDE OF METER

REQ'D 133 L.F. 4" PVC, CLASS 160 (OPEN CUT)

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D SERVICE RECONNECTION (TYPICAL)

REQ'D 55 L.F. OF 1" SERVICE TUBING

EXISTING 4" WATER MAIN TO BE CUT, CAPPED & ABANDONED

REQ'D 55 L.F. OF 1" SERVICE TUBING

REQ'D TIE-IN TO EXISTING 4" GATE VALVE

EXISTING 4" PVC WATER MAIN TO REMAIN IN SERVICE

REQ'D:
(1) 8" M.J. TEE
(2) 8" x 6" REDUCERS
(2) 6" GATE VALVES
(1) TIE IN

REQ'D 310 L.F. 6" PVC, CLASS 160 (OPEN CUT)

REDDIX LANE
ASPHALT

WEAVER CIRCLE
ASPHALT

MONROE AVENUE
ASPHALT

ASPHALT
GRAVEL
CONCRETE
18" RCP
4" AC
8" PVC

CONTINUES SHEET 37

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/8/25

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 44.dgn
PROJ NO:	23E091.01

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REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

DISTRIBUTION SYSTEM IMPROVEMENT PLAN

SOUTH MONROE WATER SYSTEM IMPROVEMENTS FY 2025 LCDBG PROGRAM

FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
CKD BY:	J.T.T.
DRWN BY:	L.L.M.
CKD BY:	J.T.T.
DATE:	SEPT., 2025
SCALE:	1" = 20'
FILE:	Plan Sheet 45.dgn
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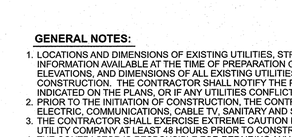
SHEET 45 OF 47

GENERAL NOTES:

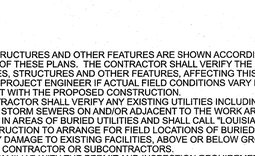
1. LOCATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IF ACTUAL FIELD CONDITIONS VARY FROM THOSE INDICATED ON THE PLANS, OR IF ANY UTILITIES CONFLICT WITH THE PROPOSED CONSTRUCTION.
2. PRIOR TO THE INITIATION OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, COMMUNICATIONS, CABLE TV, SANITARY AND STORM SEWERS ON AND/OR ADJACENT TO THE WORK AREA.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "LOUISIANA ONE CALL" OR UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR OR SUBCONTRACTORS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS/REQUIREMENTS.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS FOR CONSTRUCTION OF THE WORK. THESE PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION. THESE PLANS AND ANY SUBSEQUENT REVISIONS TO THESE PLANS, WHICH ARE ISSUED BY THE ENGINEER, WILL BE SUBJECT TO THE APPROVAL CONDITIONS OF THESE PERMITS.
7. ALL EXISTING DEBRIS WITHIN CONSTRUCTION LIMITS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
8. CONTRACTOR SHALL APPLY SEED, FERTILIZER, AND HAY TO ALL AREAS DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE DISTURBED AREAS.
9. SAFETY:
   A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
   B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
   C. THE MINIMUM STANDARDS AS SET FORTH BY LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (LDOTD) SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
   D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
   E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT", THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
10. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
11. THE CONTRACTOR SHALL MAINTAIN STORM WATER DRAINAGE AT ALL TIMES THROUGH ALL DRAINAGE STRUCTURES, CULVERTS, DITCHES, ETC. AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL RESTORE ALL SUCH DRAINAGE FACILITIES TO THEIR ORIGINAL CONDITION PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
12. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ANY UNNECESSARY OR ADDITIONAL WORK (SAWCUTTING, STREET SURFACING REMOVAL, STREET REPAIR, SERVICE LINES, POINT REPAIRS, SODDING, ETC.) THAT IS NOT PRE-APPROVED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ANY PERSONAL OR PUBLIC PROPERTY DISTURBED OR DAMAGED BY THE CONSTRUCTION ACTIVITY.
13. ALL FILL PLACED UNDER STREET PAVEMENT SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ALL FILL PLACED OUTSIDE STREET PAVEMENTS SHALL BE COMPACTED TO A MINIMUM 90% STANDARD PROCTOR DENSITY.
14. CONTRACTOR SHALL REPLACE ANY FENCING THAT IS DAMAGED EITHER DUE TO HIS NEGLIGENCE OR TO ACCOMMODATE CONSTRUCTION OF PROPOSED IMPROVEMENTS. ALL DAMAGED FENCING SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND. FENCE REPLACEMENT SHALL BE AT NO DIRECT PAY.
15. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DRY AND SHALL PROVIDE ALL SHEETING, SHORING AND BRACING NECESSARY TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR TO MINIMIZE TRENCH WIDTH AT NO DIRECT PAY.
16. ALL WORK SHALL BE PERFORMED WITHIN THE LIMITS OF EXISTING RIGHT-OF-WAY.
17. THE CONTRACTOR SHALL FURNISH THE OWNER WITH "AS-BUILT" DRAWINGS, WITH DIMENSIONS TO TOPOGRAPHIC FEATURES, OF THE COMPLETED IMPROVEMENTS INDICATING ALL PIPE SIZES, SERVICE LOCATIONS, ETC. PRIOR TO FINAL ACCEPTANCE.
18. THE CONTRACTOR SHALL CONTACT GREATER OUACHITA WATER CO. AND THE PROJECT ENGINEER A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK.
19. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A PROPOSED WORK SCHEDULE PRIOR TO COMMENCING ANY WORK ON THIS PROJECT.
20. THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE BUILD AMERICA, BUY AMERICA ACT (BABA) REQUIRING THAT ALL IRON, STEEL, MANUFACTURED PRODUCTS AND CONSTRUCTION MATERIALS USED FOR FEDERALLY FUNDED INFRASTRUCTURE PROJECTS ARE PRODUCED IN THE UNITED STATES, UNLESS OTHERWISE EXEMPT OR SUBJECT TO AN APPROVED WAIVER.

CONSTRUCTION NOTES:

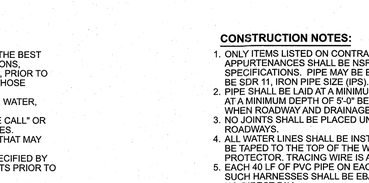
1. ONLY ITEMS LISTED ON CONTRACT BID SCHEDULE WILL BE CONSIDERED FOR PAYMENT. ALL WATER MAIN PIPE, FITTINGS, AND APPURTENANCES SHALL BE NSF APPROVED AND INSTALLED TO COMPLY WITH GREATER OUACHITA WATER COMPANY STANDARDS AND SPECIFICATIONS. PIPE MAY BE EITHER PVC OR HDPE AS SPECIFIED. ALL PVC PIPE SHALL BE CLASS 150 (SDR 26). ALL HDPE PIPE SHALL BE SDR 11, IRON PIPE SIZE (IPS).
2. PIPE SHALL BE LAID AT A MINIMUM DEPTH OF 3'-0" IN GRASS AREAS AND UNDER ALL DITCHES AND DRAINAGE PIPE. PIPE SHALL BE LAID AT A MINIMUM DEPTH OF 5'-0" BELOW STREET CENTERLINES AT CROSSINGS. THE DEEPER OF THE REQUIREMENTS SHALL GOVERN WHEN ROADWAY AND DRAINAGE IS INVOLVED.
3. NO JOINTS SHALL BE PLACED UNDER ROADWAYS. HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL BE USED UNDER ALL PUBLIC ROADWAYS.
4. ALL WATER LINES SHALL BE INSTALLED WITH 10 GAUGE SOLID COPPER OR COPPER CLAD STEEL TRACING WIRE. TRACING WIRE SHALL BE TAPED TO THE TOP OF THE WATER MAIN AT 10-FOOT INTERVALS. ALL SPLICES SHALL BE MADE WITH A 3M BRAND SPLICE MOTECTOR. TRACING WIRE IS ALSO REQUIRED AT ALL SERVICE CONNECTIONS BETWEEN THE METER BOX AND THE WATER MAIN.
5. EACH 40 LF OF PVC PIPE ON EACH SIDE OF ANY BORE USING HDPE SHALL BE RESTRAINED WITH A PIPE BELL RESTRAINT HARNESS. SUCH HARNESSES SHALL BE EBAA IRON, INC. SERIES 6500 (OR EQUAL) FOR ASTM D2241 OR SERIES 1600 (OR EQUAL) FOR AWWA C900. NO DIRECT PAY.
6. TRANSITIONS FROM HDPE TO OTHER PIPE MATERIALS SHALL BE ACCOMPLISHED BY THE USE OF A HARVEY ADAPTER.
7. ALL PIPE FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON FITTINGS WITH "O" RING SEALS, AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C153/A21.53 OR ANSI/AWWA C110/A21.10. ALL FITTINGS SHALL BE OF DOMESTIC ORIGIN. NO FOREIGN MADE FITTING WILL BE ALLOWED ON THIS PROJECT. NO DIRECT PAY FOR FITTINGS.
8. ALL FITTINGS AND VALVES SHALL BE FURNISHED WITH RETAINER TYPE GLANDS.
9. THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS IN ACCORDANCE WITH APPLICABLE UTILITY DEPARTMENT SPECIFICATIONS AND DETAILS CONTAINED HEREIN.
10. MEGA-LUGS ARE REQUIRED ON ALL MJ WATER MAIN FITTINGS IN ADDITION TO CONCRETE BLOCKING.
11. ALL NECESSARY THRUST BLOCKS AND JOINT RESTRAINTS TO BE INCLUDED IN COST OF PIPE.
12. EXISTING WATER METERS, GATE VALVES, FIRE HYDRANTS AND BLOW-OFF ASSEMBLIES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO GREATER OUACHITA WATER CO. AT THE DISCRETION OF THE OWNER. OTHERWISE, THEY SHALL BE DISPOSED OF BEYOND THE LIMITS OF THE RIGHT-OF-WAY. NO DIRECT PAY.
13. THE CONTRACTOR SHALL PERFORM A HYDROSTATIC TEST OF THE NEW WATER MAINS IN THE PRESENCE OF REPRESENTATIVES OF BOTH THE OWNER AND THE ENGINEER. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING AND WITH THE PROJECT SPECIFICATIONS.
14. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES MAY BE BACKFILLED, BUT SUBJECT TO UNCOVERING FOR INSPECTION (AT ENGINEER'S DIRECTION) UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER.
15. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C-651 AND GREATER OUACHITA WATER COMPANY SPECIFICATIONS.
16. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING, AND OBTAIN CLEARANCE OF THE DOMESTIC WATER SYSTEM(S). COPIES OF ALL BACTERIOLOGICAL TEST RESULTS ARE TO BE SUBMITTED TO THE OWNER'S ENGINEER FOR CERTIFICATION PURPOSES.
17. EXISTING WATER LINES THAT ARE TO BE ABANDONED SHALL BE CUT, DRAINED, AND PLUGGED WITH CONCRETE AT 1,000-FOOT INTERVALS (MAX) AT NO DIRECT PAY.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION & OPERATION OF ALL ACTIVE SERVICE LINES WITHIN THE PROJECT LIMITS PRIOR TO ANY DIGGING. ALL EXISTING ACTIVE SERVICES WITHIN THE PROJECT LIMITS SHALL BE RECONNECTED TO THE NEW MAIN. CONTRACTOR SHALL INSTALL NEW HDPE SERVICE TUBING FROM NEW WATER MAIN TO EACH EXISTING SERVICE METER. A NEW METER VALVE SHALL BE FURNISHED AND INSTALLED AT EACH SERVICE RECONNECTION.
19. CONTRACTOR SHALL NOTIFY AFFECTED PROPERTY OWNERS A MINIMUM OF 72 HOURS PRIOR TO THE DISCONNECTION OF ANY SERVICE CONNECTION.
20. WATER MAINS SHOULD ALWAYS CROSS OVER SANITARY SEWERS. INSTALLATION OF WATER MAINS AT CROSSINGS OF SANITARY SEWERS SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WATER MAINS MAY ONLY CROSS SANITARY SEWERS, FORCE MAINS AND STORM SEWERS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE WITH SPECIFIC APPROVAL OF A VARIANCE BY THE STATE HEALTH OFFICER.
21. A MINIMUM 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE.
22. PIPES, FITTINGS, FIXTURES, SOLDER OR FLUX USED IN THE INSTALLATION OR REPAIR OF ANY PUBLIC WATER SYSTEM OR ANY PLUMBING IN A FACILITY PROVIDING WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE AS DEFINED IN LOUISIANA ACT 362. LOUISIANA ACT 362 DEFINES LEAD FREE AS NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD CONTENT FOR THOSE COMPONENTS LISTED ABOVE. EXEMPTIONS INCLUDE TOILETS, BIDETS, URINALS, FILL VALVES, FLUSHOMETER VALVES, TUB FILLERS, SHOWER VALVES, SHOWERS, SAFETY SHOWER FLUSHES, SERVICE SADDLES OR WATER DISTRIBUTION MAIN GATE VALVES THAT ARE TWO INCHES IN DIAMETER OR LARGER. ALL APPLICABLE PIPING, FIXTURES, PIPE-RELATED PRODUCTS AND MATERIALS THAT JOIN OR SEAL PIPES SHALL BE EVALUATED AND LISTED AS CONFORMING WITH NSF/ANSI 372-DRINKING WATER SYSTEM COMPONENTS LEAD CONTENT OR SHALL BE CERTIFIED TO BE LEAD FREE BY AN INDEPENDENT ANSI ACCREDITED THIRD PARTY TESTING LABORATORY.
23. INCIDENTAL PAVEMENT REMOVAL AT DRIVES, SIDEWALKS, OR PARKING AREAS SHALL BE PERFORMED AT NO DIRECT PAY. PAVEMENT SHALL BE NEATLY SAWCUT AND REMOVED OR REMOVED TO NEAREST JOINT. ANY HARD SURFACED DRIVES, SIDEWALKS, OR PARKING AREAS THAT ARE REMOVED OR DAMAGED SHALL BE REPAIRED WITH LIKE MATERIAL AT NO DIRECT PAY.
24. ALL DISTURBED GRAVEL DRIVES SHALL BE REPAIRED WITH 6" CRUSHED STONE TO BE PAID FOR UNDER TRAFFIC MAINTENANCE AGGREGATE ITEM.
25. ALL NECESSARY FITTINGS REQUIRED FOR TIE-INS (TEES, REDUCERS, ETC.) SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR TIE-INS. ALL OTHER FITTINGS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR PIPING.
26. THE CONTRACTOR IS RESPONSIBLE FOR STAKING THE EXISTING RIGHT-OF-WAY AND FOR ANY OTHER CONSTRUCTION LAYOUT NECESSARY TO COMPLETE THE PROJECT.CONTRACTOR SHALL SCHEDULE AND PERFORM WORK IN A MANNER SO AS TO MINIMIZE DISRUPTIONS OF CURRENT WATER DISTRIBUTION OPERATIONS.
27. CONTRACTOR SHALL COORDINATE ALL SCHEDULED SERVICE INTERRUPTIONS FOR THE PURPOSE OF MAKING TIE-INS WITH GREATER OUACHITA WATER COMPANY. ALL MAIN LINE VALVE OPERATIONS FOR SCHEDULED SERVICE INTERRUPTIONS SHALL BE PERFORMED BY GREATER OUACHITA WATER COMPANY.



SECTION 1-1



SECTION 2-2



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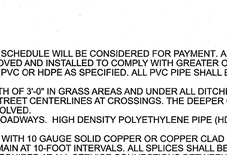

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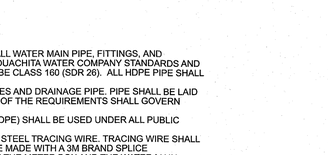


PLAN - DEAD END THRUST BLOCKING

PLAN - REDUCER THRUST BLOCKING

PLAN - TEE THRUST BLOCKING

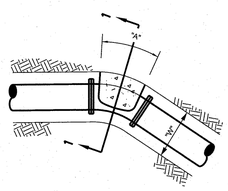
NOTES:

1. VOLUME OF CONC. FOR VERTICAL OVERBENDS ON SEWER FORCE MAINS SHALL BE SIZED FOR THE MAXIMUM DESIGN PRESSURE +100 P.S.I. SURGE.
2. NO DIRECT PAYMENT FOR REINF. RODS REQ'D IN OVERBENDS.
3. SIZE OF TEE REFERS TO BRANCH SIZE.
4. IN THRUST BLOCK SCHEDULE OF DIMENSIONS FOR OVERBENDS, "V" REFERS TO REQ'D VOLUME OF CONCRETE AND "BA" REFERS TO REQ'D BEARING AREA.
5. CONCRETE THRUST BLOCKING SHALL NOT, IN ANY WAY, COMPLETELY ENCASE THE FITTINGS OR BLOCK ACCESS TO THE FITTINGS HARDWARE.

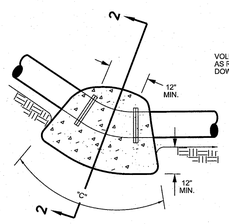
NOTE:
"W" DIMENSION = TRENCH WIDTH (PIPE O.D. + 6" TO 12")

STANDARD MASS CONCRETE THRUST BLOCKING FOR ALL PRESSURE PIPE

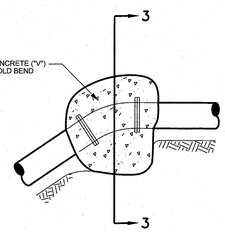
SCALE N.T.S.



PLAN - HORIZONTAL BEND THRUST BLOCKING



ELEV. - VERTICAL UNDERBEND THRUST BLOCKING



ELEV. - VERTICAL OVERBEND THRUST BLOCKING

TYPE OF FITTING	HORIZONTAL BENDS							
	90°		45°		22 1/2°		11 1/4°	
TYPICAL DIM. / PIPE SIZE	"A" FT.-IN.	"B" FT.-IN.	"A" FT.-IN.	"B" FT.-IN.	"A" FT.-IN.	"B" FT.-IN.	"A" FT.-IN.	"B" FT.-IN.
4" & 6"	2-6	1-0	2-0	1-0	1-0	1-0	1-0	1-0
8"	3-6	2-0	2-6	1-6	2-0	1-0	1-0	1-0
10"	4-0	2-6	3-0	2-0	2-0	1-6	1-0	1-6
12"	5-0	3-0	4-0	2-0	2-0	2-0	1-0	2-0
16"	6-0	4-6	4-6	3-0	3-6	2-0	1-6	2-0
20"	6-6	6-0	5-0	4-6	4-0	3-0	2-0	2-6
24"	8-0	7-6	6-6	5-6	4-6	3-6	2-0	3-9
30"	10-0	9-6	7-6	6-9	5-6	4-6	2-6	5-0

TYPE OF FITTING	VERTICAL UNDERBENDS							
	90°		45°		22 1/2°		11 1/4°	
TYPICAL DIM. / PIPE SIZE	"C" FT.-IN.	"D" FT.-IN.	"C" FT.-IN.	"D" FT.-IN.	"C" FT.-IN.	"D" FT.-IN.	"C" FT.-IN.	"D" FT.-IN.
4" & 6"	2-6	1-0	2-0	1-0	1-9	1-0	1-6	1-0
8"	3-0	1-0	2-6	1-0	2-0	1-0	1-9	1-0
10"	3-6	1-0	3-0	1-0	2-3	1-0	2-0	1-0
12"	4-0	1-0	3-6	1-0	2-6	1-0	2-0	1-0
16"	6-6	1-0	5-0	1-0	3-6	1-0	2-3	1-0
20"	7-6	1-0	6-0	1-0	4-6	1-0	3-0	1-0
24"	7-9	1-6	6-0	1-6	4-0	1-6	2-9	1-6
30"	9-9	1-6	7-0	1-6	5-0	1-6	3-6	1-6

TYPE OF FITTING	VERTICAL OVERBENDS																
	90°			45°			22 1/2°			11 1/4°			TEES & DEAD ENDS		REDUCERS		
TYPICAL DIM. / REQ'D SIZES	"V" CU. YDS.	"BA" SQ. FT.	REBAR	"V" CU. YDS.	"BA" SQ. FT.	REBAR	"V" CU. YDS.	"BA" SQ. FT.	REBAR	"V" CU. YDS.	"BA" SQ. FT.	REBAR	"A" FT.-IN.	"B" FT.-IN.	"B" FT.-IN.	"E" FT.-IN.	
6" X 4"	1.5	4	2#4	1	2	1#4	.5	1	1#4	.25	1	1#4	2-6	1-0	1-0	0-6	
8" X 6"	3	6	4#4	2	4	2#4	1	2	1#4	.5	1	1#4	3-6	2-0	1-0	1-0	
10" X 6"	5	10	5#4	3	6	3#4	1.5	3	1#5	.75	2	1#4	4-0	2-6	1-6	1-0	
10" X 8"	5	10	5#4	3	6	3#4	1.5	3	1#5	.75	2	1#4	4-0	2-6	2-0	2-0	
12" X 6"	7	14	5#5	4	8	4#4	2	4	2#4	1	2	1#4	5-6	3-0	2-0	1-6	
12" X 8"	7	14	5#5	4	8	4#4	2	4	2#4	1	2	1#4	5-6	3-0	2-0	1-0	
12" X 10"	7	14	5#5	4	8	4#4	2	4	2#4	1	2	1#4	5-6	3-0	3-0	2-6	
16" X 6"	13	26	6#6	7	14	5#5	4	8	3#4	2	4	2#4	6-0	5-0	3-0	2-6	
16" X 8"	13	26	6#6	7	14	5#5	4	8	3#4	2	4	2#4	6-0	5-0	3-0	2-0	
16" X 10"	13	26	6#6	7	14	5#5	4	8	3#4	2	4	2#4	6-0	5-0	3-0	1-9	
20" X 10"	20	40	6#6	11	23	5#5	5.5	12	4#4	3	6	2#4	6-0	5-0	3-0	1-0	
20" X 12"	20	40	6#6	11	23	5#5	5.5	12	4#4	3	6	2#4	7-0	6-0	3-0	1-0	
20" X 16"	30	60	8#6	17	18	6#5	8	16	4#5	4	8	3#4	7-0	6-0	2-6	1-0	
24" X 10"	30	60	8#6	17	18	6#5	8	16	4#5	4	8	3#4	7-0	6-0	4-0	2-6	
24" X 20"	44	90	9#6	25	50	8#5	12	25	5#5	6	13	4#4	8-6	7-9	3-0	0-6	
30" X 12"															5-6	2-6	
30" X 24"															3-6	1-3	

SCHEDULE OF DIMENSIONS FOR MASS CONCRETE THRUST BLOCKS FOR 2,000 P.S.F. SOIL

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9/8/25

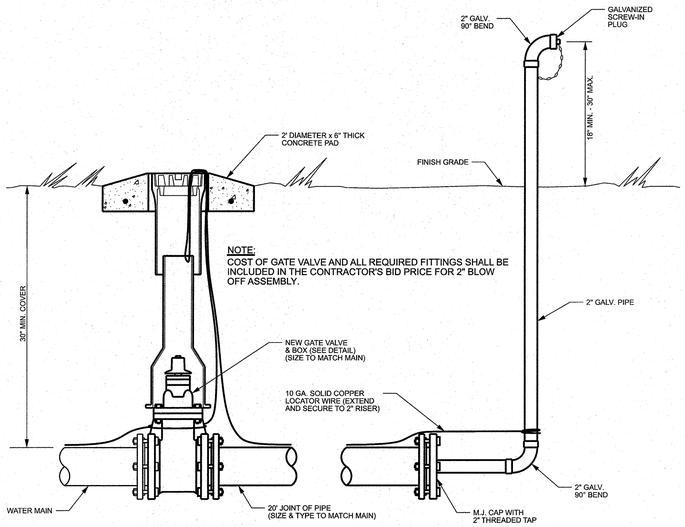
LAZENBY & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

CONSTRUCTION NOTES & STANDARD DETAILS (1 OF 2)

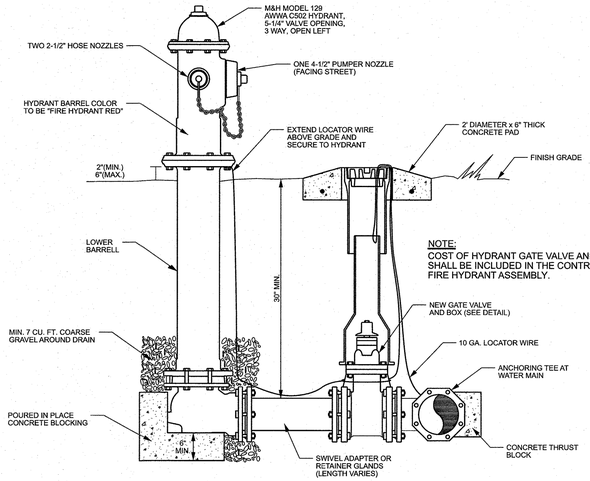
SOUTH MONROE WATER SYSTEM IMPROVEMENTS
FY 2025 LCDBG PROGRAM
FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY: J.T.T.
CKD BY: J.T.T.
DRWN BY: L.L.M.
CKD BY: J.T.T.
DATE: SEPT., 2025
SCALE: N.T.S.
FILE: Detail Sheets.dgn
PROJ NO: 23E091.01

SHEET 46 OF 47

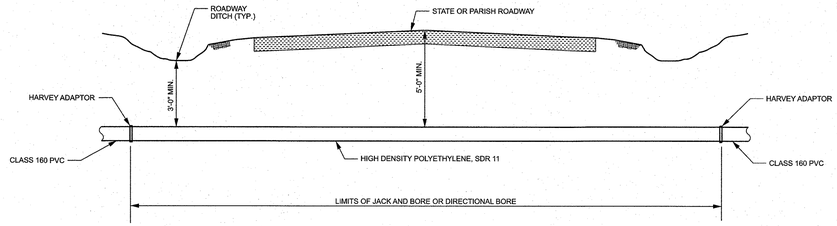


STANDARD FLUSH VALVE ASSEMBLY
N.T.S.

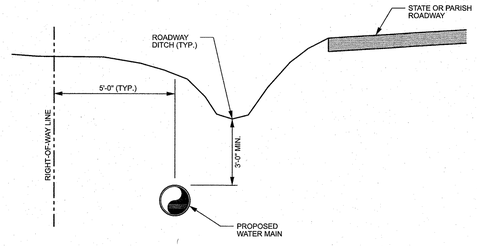


NOTE:
COST OF HYDRANT GATE VALVE AND ALL REQUIRED FITTINGS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR FIRE HYDRANT ASSEMBLY.

STANDARD FIRE HYDRANT ASSEMBLY



TYPICAL ROADWAY CROSSING
SCALE N.T.S.



TYPICAL WATER MAIN LOCATION
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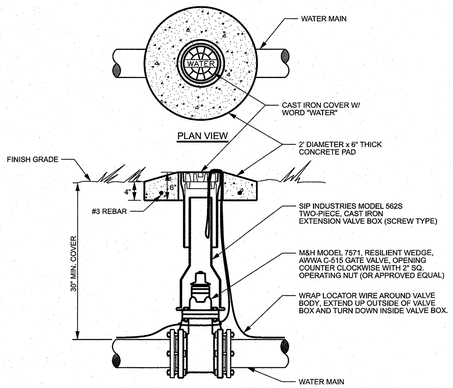
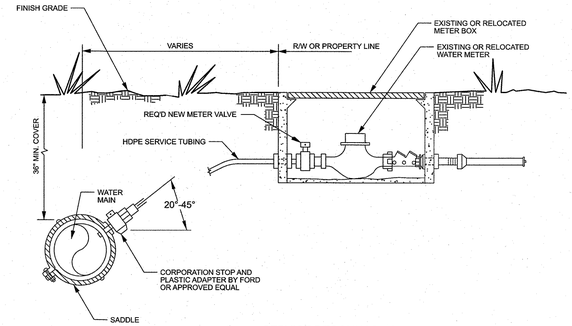
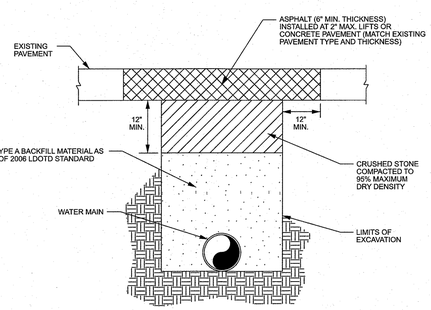


STANDARD GATE VALVE DETAILS
SCALE N.T.S.

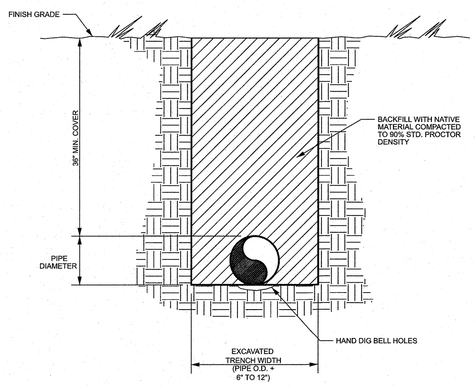


SERVICE RECONNECTION
(ILLUSTRATING "SHORT-SIDE" ASSEMBLY)

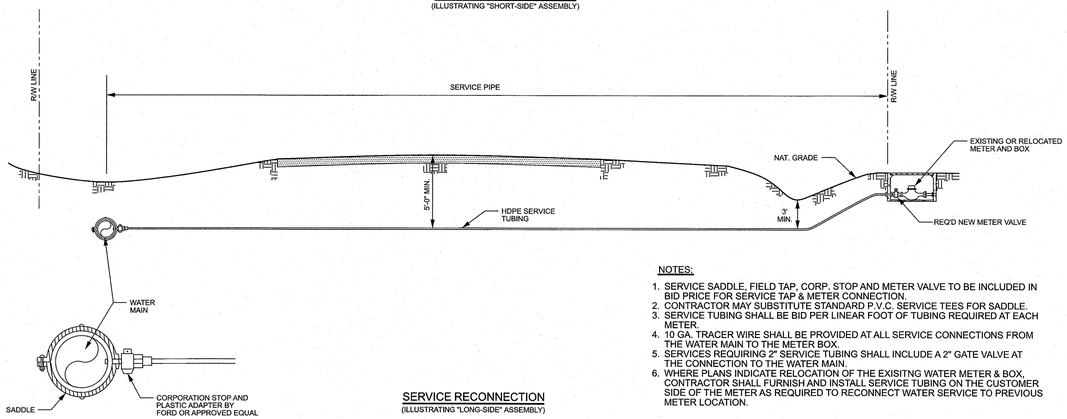


NOTE: PAVEMENT PATCHING AT NO DIRECT PAY.

PAVEMENT PATCHING DETAIL
SCALE N.T.S.



TRENCH DETAIL
SCALE N.T.S.



SERVICE RECONNECTION
(ILLUSTRATING "LONG-SIDE" ASSEMBLY)

NOTES:

1. SERVICE SADDLE, FIELD TAP, CORP. STOP AND METER VALVE TO BE INCLUDED IN BID PRICE FOR SERVICE TAP & METER CONNECTION.
2. CONTRACTOR MAY SUBSTITUTE STANDARD P.V.C. SERVICE TEES FOR SADDLE.
3. SERVICE TUBING SHALL BE BID PER LINEAR FOOT OF TUBING REQUIRED AT EACH METER.
4. 10 GA. TRACER WIRE SHALL BE PROVIDED AT ALL SERVICE CONNECTIONS FROM THE WATER MAIN TO THE METER BOX.
5. SERVICES REQUIRING 2" SERVICE TUBING SHALL INCLUDE A 2" GATE VALVE AT THE CONNECTION TO THE WATER MAIN.
6. WHERE PLANS INDICATE RELOCATION OF THE EXISITNG WATER METER & BOX, CONTRACTOR SHALL FURNISH AND INSTALL SERVICE TUBING ON THE CUSTOMER SIDE OF THE METER AS REQUIRED TO RECONNECT WATER SERVICE TO PREVIOUS METER LOCATION.

STANDARD SERVICE RECONNECTION DETAILS
SCALE N.T.S.

REVISIONS

STATE OF LOUISIANA
JASON T. THORNHILL
REG. No. 26872
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
7/16/25

LAZENBY & ASSOCIATES, INC.
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2000 NORTH 7TH STREET WEST MONROE, LOUISIANA (318) 387-2710

STANDARD DETAILS (2 OF 2)

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FY 2025 LCDBG PROGRAM
FOR
GREATER OUACHITA WATER COMPANY
OUACHITA PARISH, LOUISIANA

DESIGNED BY:	J.T.T.
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PROJ NO:	23E091.01

SHEET 47 OF 47