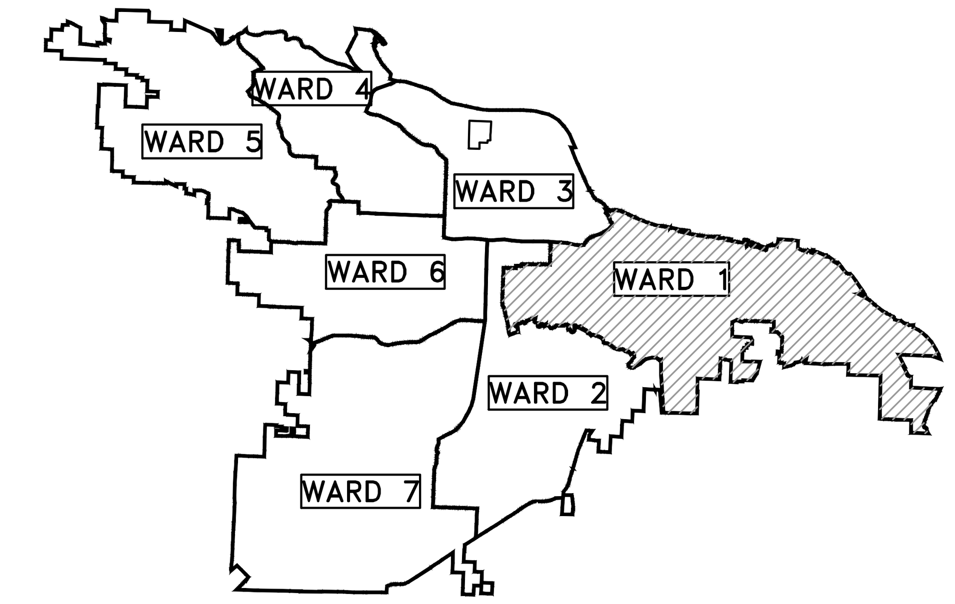
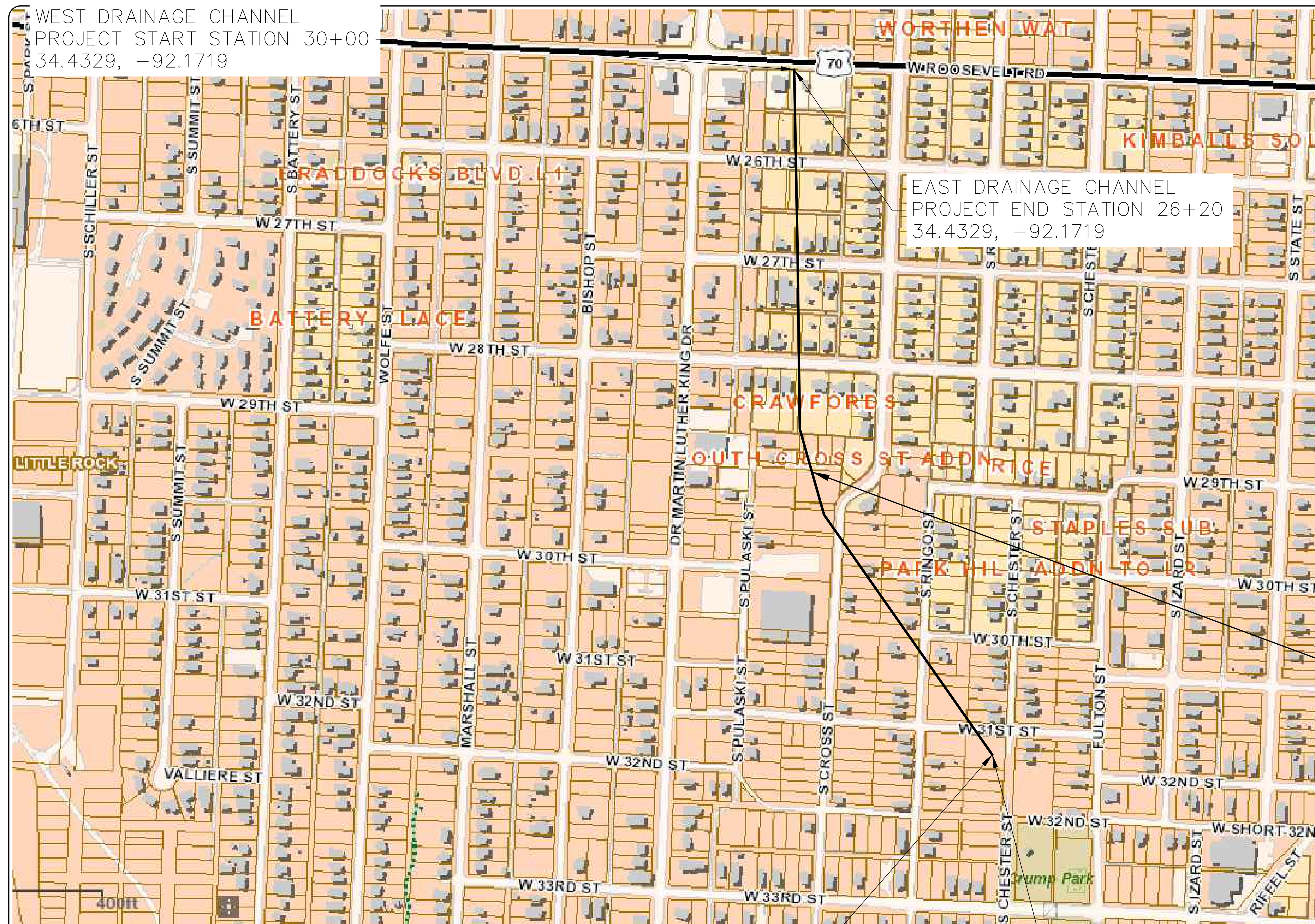
CLR PROJECT #01-17-DR-9
SWAGGERTY BRANCH
DRAINAGE REHABILITATION
ROOSEVELT ROAD TO SOUTH OF 31ST STREET



PROJECT LOCATION – WARD 1



WEST DRAINAGE CHANNEL
PROJECT END
STATION 56+30
34.4351, –92.1711

EAST DRAINAGE CHANNEL
PROJECT START
STATION 0+00
34.4351, –92.1711

PROJECT LOCATION

SHEET NO.	TITLE
C1	COVER SHEET
C2	GENERAL NOTES AND QUANTITIES
C3	TYPICAL SECTIONS (1)
C4	TYPICAL SECTIONS (2)
C5	TYPICAL SECTIONS (3)
C6	PLAN AND PROFILE SHEET (1)
C7	PLAN AND PROFILE SHEET (2)
C8	PLAN AND PROFILE SHEET (3)
C9	PLAN AND PROFILE SHEET (4)
C10	PLAN AND PROFILE SHEET (5)
C11	PLAN AND PROFILE SHEET (6)
C12	PLAN AND PROFILE SHEET (7)
C13	PLAN AND PROFILE SHEET (8)
C14	PLAN AND PROFILE SHEET (9)
C15	PLAN AND PROFILE SHEET (10)
C16	PLAN AND PROFILE SHEET (11)
C17	PLAN AND PROFILE SHEET (12)

PUBLIC WORKS · CITY OF LITTLE ROCK ·

ISSUED FOR CONSTRUCTION

Know what's below. Call before you dig.

2019-2021 BOND PROGRAM

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 WEST MARKHAM STREET
LITTLE ROCK, ARKANSAS 72201

CERTIFICATE OF AUTHORIZATION
POLLUTION MANAGEMENT, INC.
No. 331
ARKANSAS ENGINEER

PMI
3512 S. SHACKLEFORD RD.
LITTLE ROCK, AR 72205

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
BRECKENRIDGE DRIVE DRAINAGE IMPROVEMENTS
COVER SHEET

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
12/6/21

DRAWN BY	JTM
DESIGNED	JTM
CHECKED	BJW
DATE	12-6-21
SCALE	N.T.S.
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C1

	CLR PROJECT #01-17-DR-9		
	SWAGGERTY DRAINAGE IMPROVEMENTS		
	2-Jan-20		
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	Site Preparation (Incl. Mobilization)	LS	1
4.01	Aggregate Base Course (Class 7)	TON	230
6.01	Asphalt Surface Course	TON	85
8.01	Concrete Curb and Gutter	LF	80
9.01	Sidewalk, 4"	SF	250
10.02	Curb Inlet	EA	1
14.01	Solid Sodding (Bermuda)	SY	1750
16.01	Maintenance of Traffic	LS	1
19.01	Final Clean-Up	LS	1
25.26	Relocate Fence Chain Link (4')	LF	380
26.01	Trench or Excavation Safety Systems	LS	1
SP	108" Corrugated Metal Pipe	LF	260
SP	114" Corrugated Metal Pipe	LF	380
SP	Flush and Clean Existing Culvert	LF	5250
SP	Grout Existing Culvert Invert	CY	565
SP	Equalization Pipe Connections	EA	5
SP	Removal and Disposal of Designated Structures	EA	32
SP	Access Manhole	EA	1
SP	House Demolition and Disposal	EA	1

GENERAL NOTES:

1. INVERT OF METAL PIPE SHALL BE GROUTED FOR THE ENTIRE LENGTH OF BOTH PIPES. SEE DETAILS.
2. CONTRACTOR SHALL REMOVE ALL TRASH, ROCKS, GRAVEL, SEDIMENT, AND OTHER MATERIALS FROM WITHIN THE 9' AND 9'-6" DRAINAGE PIPES, JUNCTION BOXES, AND ACCESS POINTS BEFORE GROUTING PIPE INVERTS.
3. IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS, OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY LESS THAN 95% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT. (AASHTO T-180)
4. FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 90% MAXIMUM. (AASHTO T-180)
5. WHERE STREET CUTS ARE REQUIRED FOR CULVERT REPLACEMENT, STREET REPAIR SHALL BE RECONSTRUCTED TO MATCH ADJACENT SECTION OR ROADWAY OR AS DIRECTED BY ENGINEER. CENTERLINE PROFILE WILL REQUIRE HEAD GREATER THAN CURB STREETS TO MAINTAIN 2% CROSS-SLOPE.
6. CRUSHED STONE - DENSITY OF COMPACTED MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF AT LEAST 100% MAXIMUM. (AASHTO T-191)
7. CONTRACTOR SHALL LOCATE EQUALIZER PIPES AND RECONNECT THESE PIPES IN AREAS WHERE NEW PIPE SECTIONS ARE INSTALLED, SEE DETAILS.
8. PIPE SHALL BE H/C PIPE 3 X 1 PLYGV LS 12GA HALF COATED & PAVED WITH 2 REROLLED ENDS AS MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS OR APPROVED EQUAL.
9. PIPE REPLACEMENT SHALL OCCUR IMMEDIATELY FOLLOWING EXISTING PIPE REMOVAL OR AS DIRECTED BY CITY ENGINEER. CONTRACTOR SHALL MONITOR WEATHER FORECASTS CLOSELY. IN NO CASE SHOULD CULVERT SECTIONS BE REMOVED WHEN CULVERT REPLACEMENT CANNOT BE COMPLETED BEFORE STORM FLOWS OCCUR.
10. CONTRACTOR SHALL USE SHORING AND SHIELDING WHEN WORKING ADJACENT TO STRUCTURES. FOLLOW ALL OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
11. MATERIAL REMOVED FOR PIPE INSTALLATION IS INCLUDED IN COST OF PIPE.

EXISTING

IRON ROD	IR
PK NAIL	PK
R.R. SPIKE	RR(Sp)
CONC. MONUMENT	CM
WATER VALVE	WV
WATER METER	WM
FIRE HYDRANT	FH
GAS METER	GM
GAS VALVE	GV
CLEAN-OUT	CO
GUARD POST (BOLLARD)	GP
SIGN POST	
BENCHMARK	
STORM SEWER MANHOLE	D
SANITARY SEWER MANHOLE	S
TELEPHONE MANHOLE	T
ELECTRIC MANHOLE	E
TELEPHONE BOX	T
ELECTRIC BOX	E
CABLE BOX	C
UTILITY POLE	
GUY WIRE	
LIGHT POLE	
POST OR POLE (TYPE AS NOTED)	
MAILBOX	
DECIDUOUS TREE	
EVERGREEN/CONIFEROUS TREE	
BUSH	
PROPERTY LINE	
SETBACK LINE	
EASEMENT LINE	
TEMPORARY EASEMENT LINE	
CURB	
FENCE	X X X
OVERHEAD ELECTRIC	OE OE
OVERHEAD TELEPHONE	OT OT
OVERHEAD CABLE	OC OC
UNDERGROUND TELEPHONE	UGT
UNDERGROUND ELECTRIC	UGE
UNDERGROUND CABLE	UGC
WATER LINE	8"W
SEWER LINE	8"SS
GAS LINE	4"G
STORM SEWER/CULVERT	24" CMP/RCP/DIP
EDGE OF WOODS	
CONTOUR LINE	650

PROPOSED

PROPOSED CONTOUR	25
PROPOSED SPOT ELEVATION	25.00
PROPOSED SPOT CURB ELEVATION	25.50 / 25.00
STORM SEWER - PIPE	
STORM SEWER - MITERED END SECTION	
STORM SEWER - GRATE INLET	
STORM SEWER - JUNCTION BOX	D D
STORM SEWER - FLARED END SECTION	
STORM SEWER - HEADWALL	
STORM SEWER - SINGLE WING	D
STORM SEWER - DOUBLE WING	D
STORM SEWER - AREA INLET	D
GRADE BREAK LINE	
HIGH POINT	HP
LOW POINT	LP
CUT LINE	C
FILL LINE	F
SANITARY SEWER PIPE	SAN
SANITARY SEWER MANHOLE	S
PROPOSED CURB	
PROPOSED CONCRETE	
CONSTRUCTION - ENTRANCE/EXIT	CO
CHECK DAM	CD
DIVERSION BERM	DI
DOWNDRAIN STRUCTURE - TEMPORARY	DN
ROCK DAM	RD
SEDIMENT BARRIER - SILT FENCE	SD1
SEDIMENT BARRIER - GRAVEL RING	SD2
SEDIMENT BARRIER - BLOCK & GRAVEL	SD3
SEDIMENT BARRIER - BLOCK	SD4
TEMPORARY SEDIMENT BASIN	SB1
SILT FENCE - TYPE A	SFA
SILT FENCE - TYPE B	SFB
SILT FENCE - TYPE C	SFC
STORM DRAIN OUTLET PROTECTION	ST
SURFACE ROUGHENING	SU
DISTURBED AREA STABILIZATION -TEMPORARY STABILIZATION	TS1
DISTURBED AREA STABILIZATION -TEMPORARY GRASSING	TS2
DISTURBED AREA STABILIZATION -PERMANENT GRASSING	TS3
MATTING/BLANKETS	Mb
PIPE REPLACEMENT AREAS	

ACCESS POINTS STATIONING

EAST PIPE	WEST PIPE
11+39	33+42
15+90	36+98
17+79	40+16
19+65	40+65
23+35	

REVISIONS	DATE

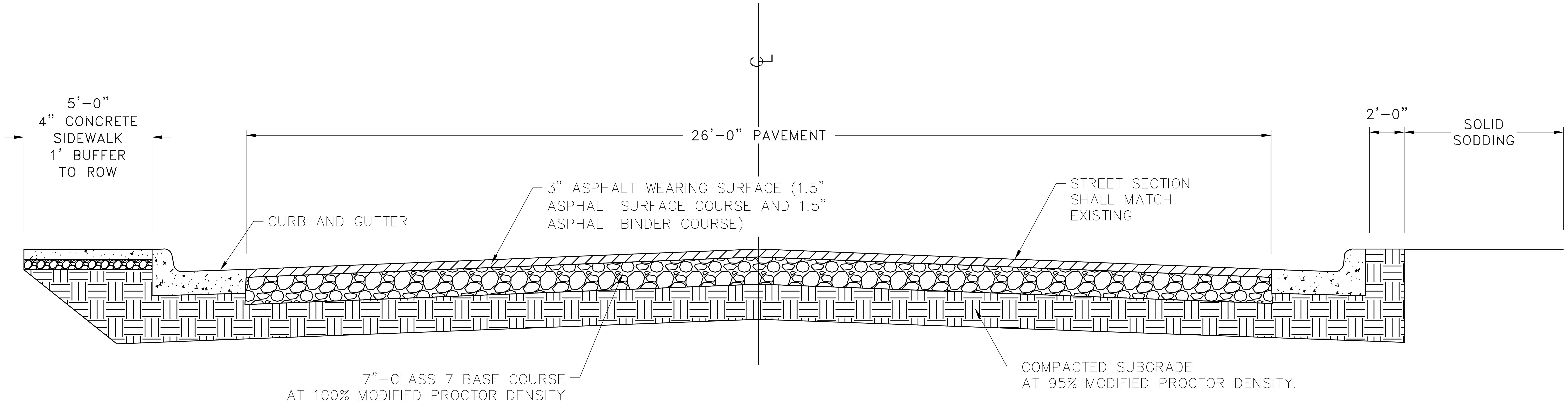
CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

GENERAL NOTES AND QUANTITIES

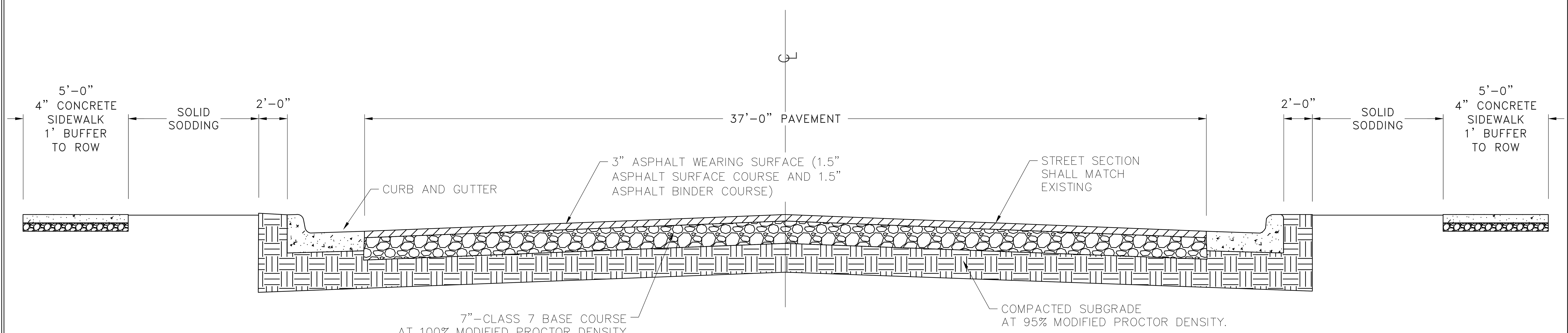
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
12/6/21

DRAWN BY
JTM
DESIGNED
JTM
CHECKED
BJW
DATE
12-6-21
SCALE
N.T.S.
PROJECT NO.
CLR #01-17-DR-9
SHEET NO.
C2



SOUTH RINGO STREET ROAD SECTION
STA. 60+00 TO 60+62



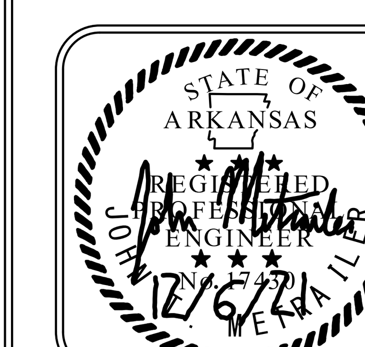
WEST 28TH STREET ROAD SECTION
STA. 70+00 TO 70+50

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS (1)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY	JTM
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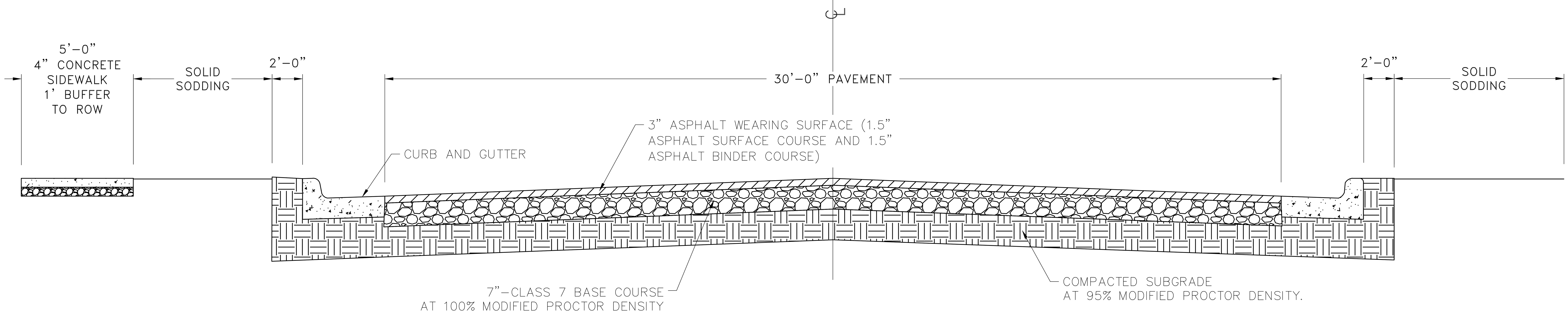
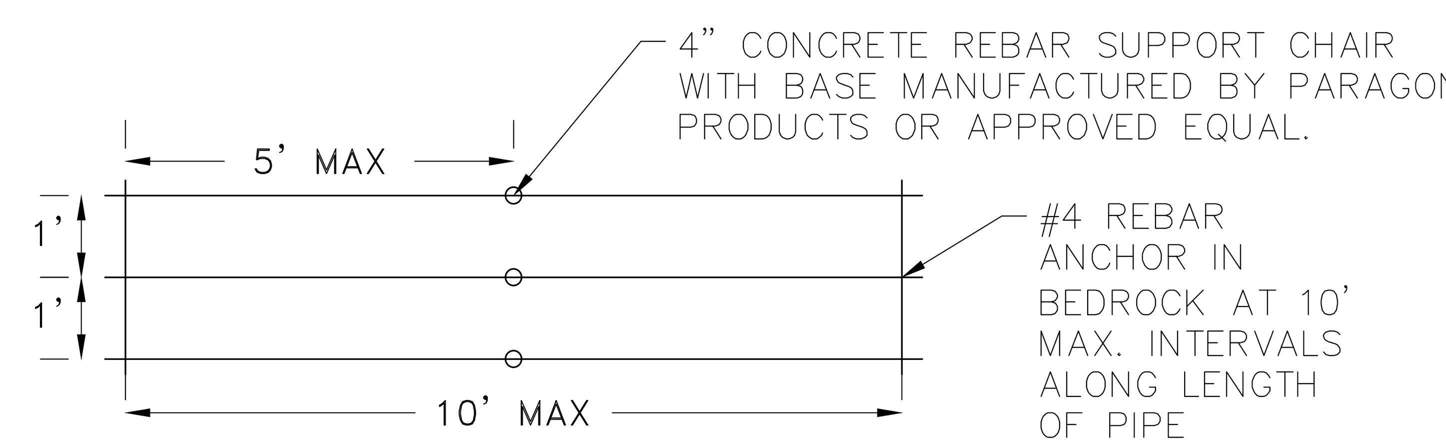
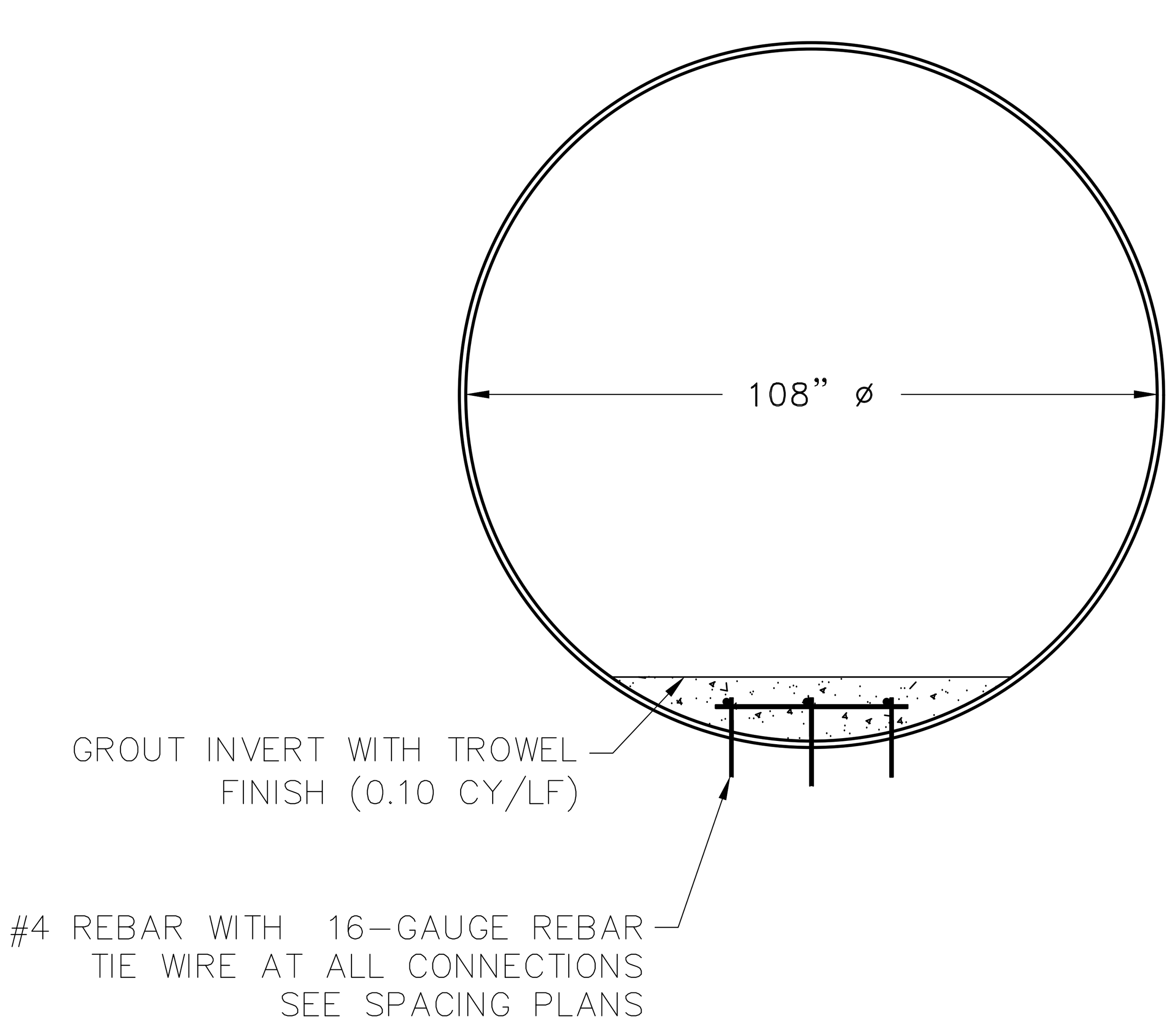
SCALE	NTS
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C3

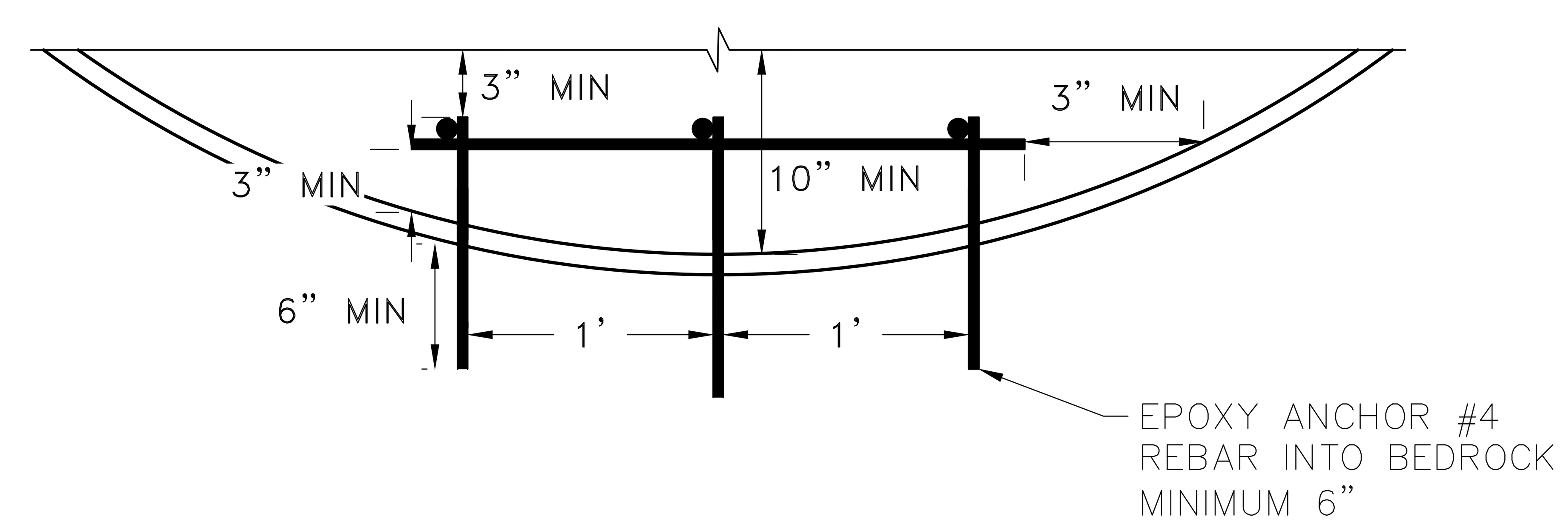


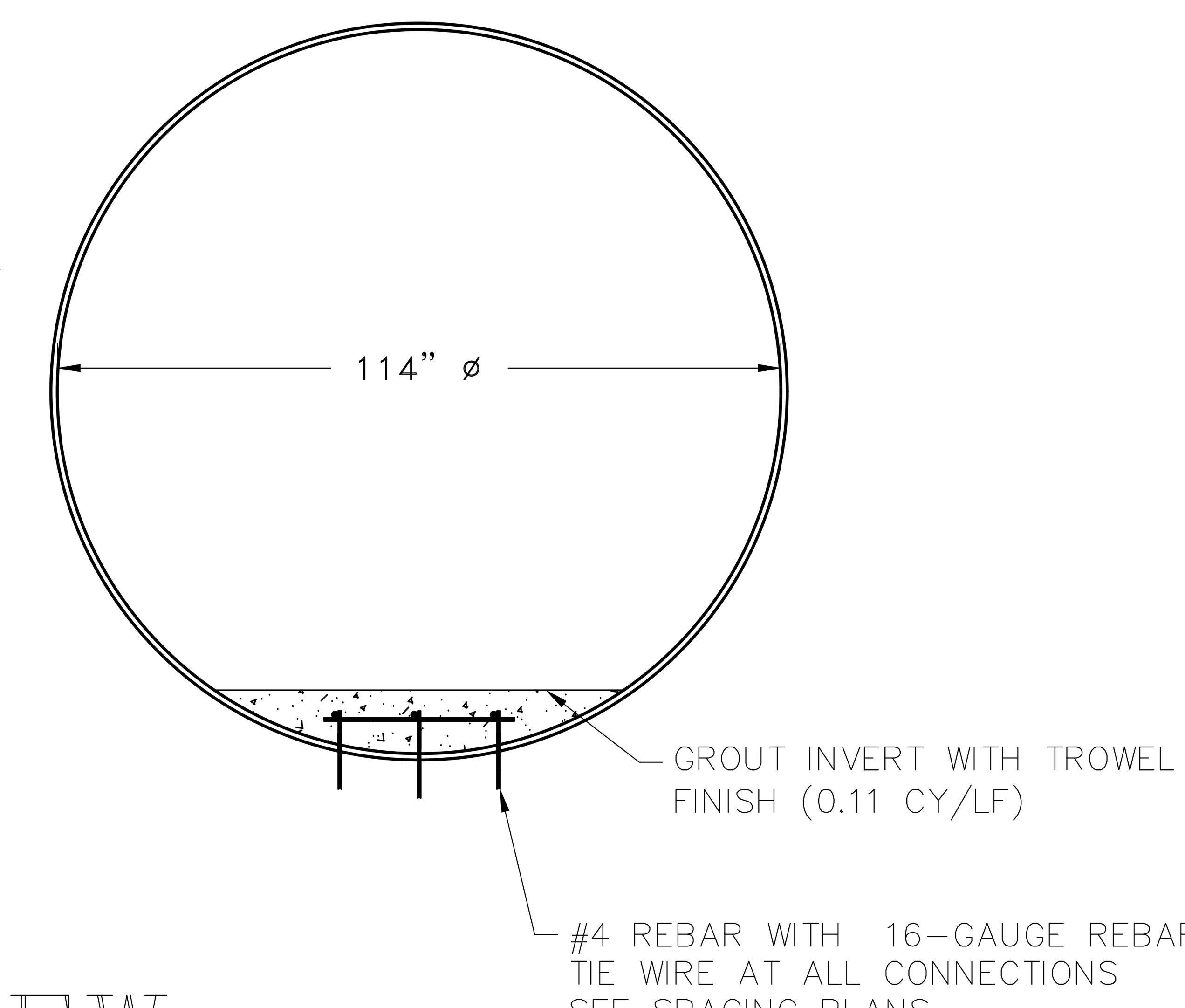
WEST 26TH STREET ROAD SECTION
STA. 80+00 TO 80+47



REBAR SPACING PLAN VIEW







REBAR SPACING PROFILE VIEW

METAL PIPE SECTION
EAST PIPE STA. 20+10 TO 26+20
WEST PIPE STA. 30+00 TO 36+10

METAL PIPE SECTION
EAST PIPE STA. 0+00 TO 20+10
WEST PIPE STA. 36+10 TO 56+30

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
TYPICAL SECTIONS (2)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER
12/6/21

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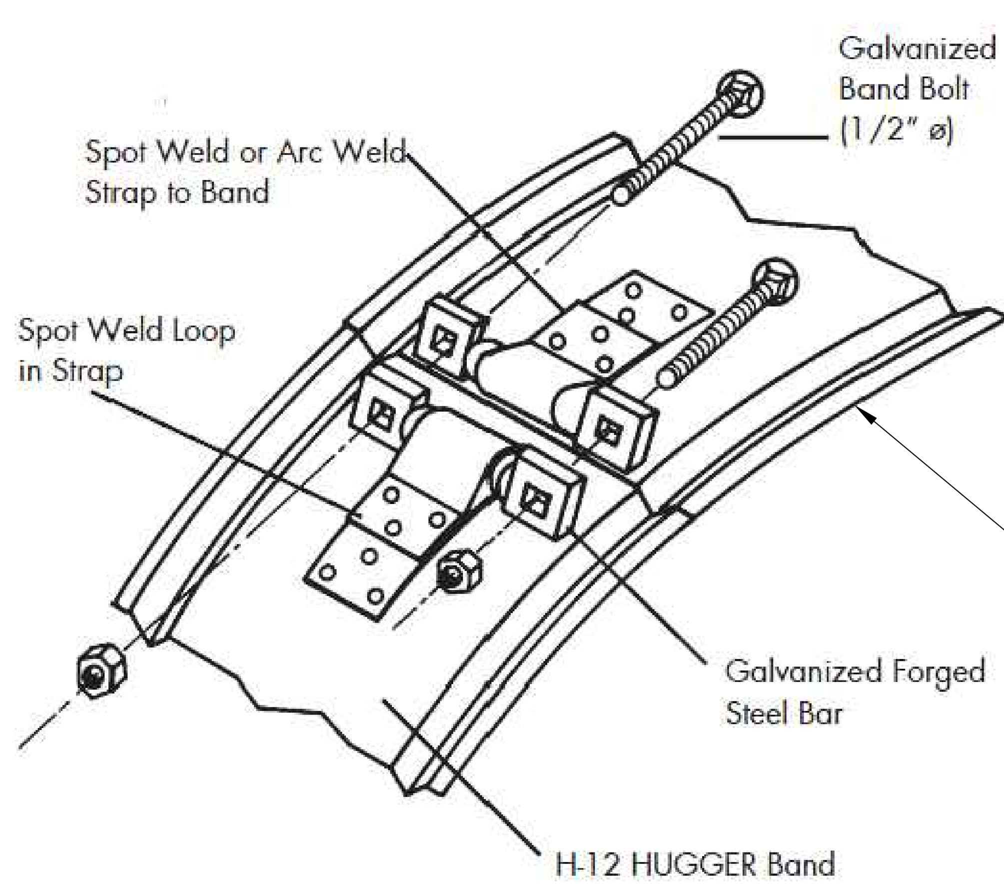
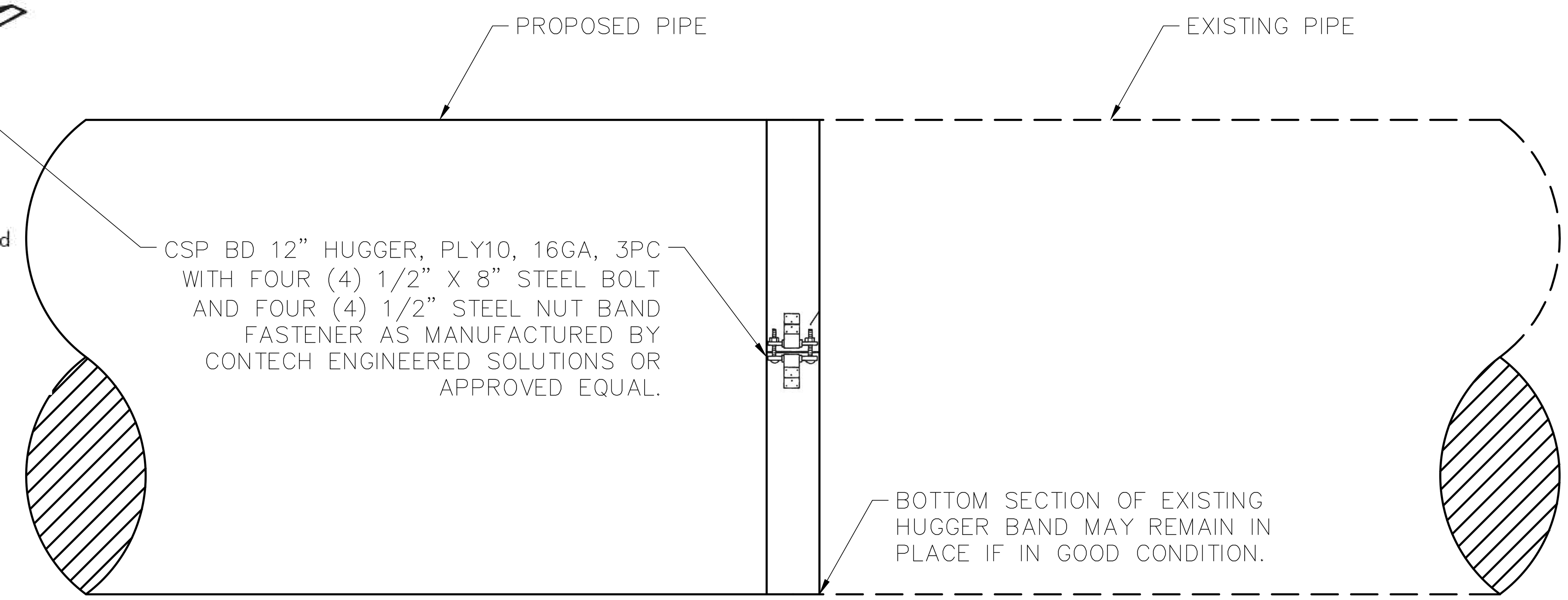
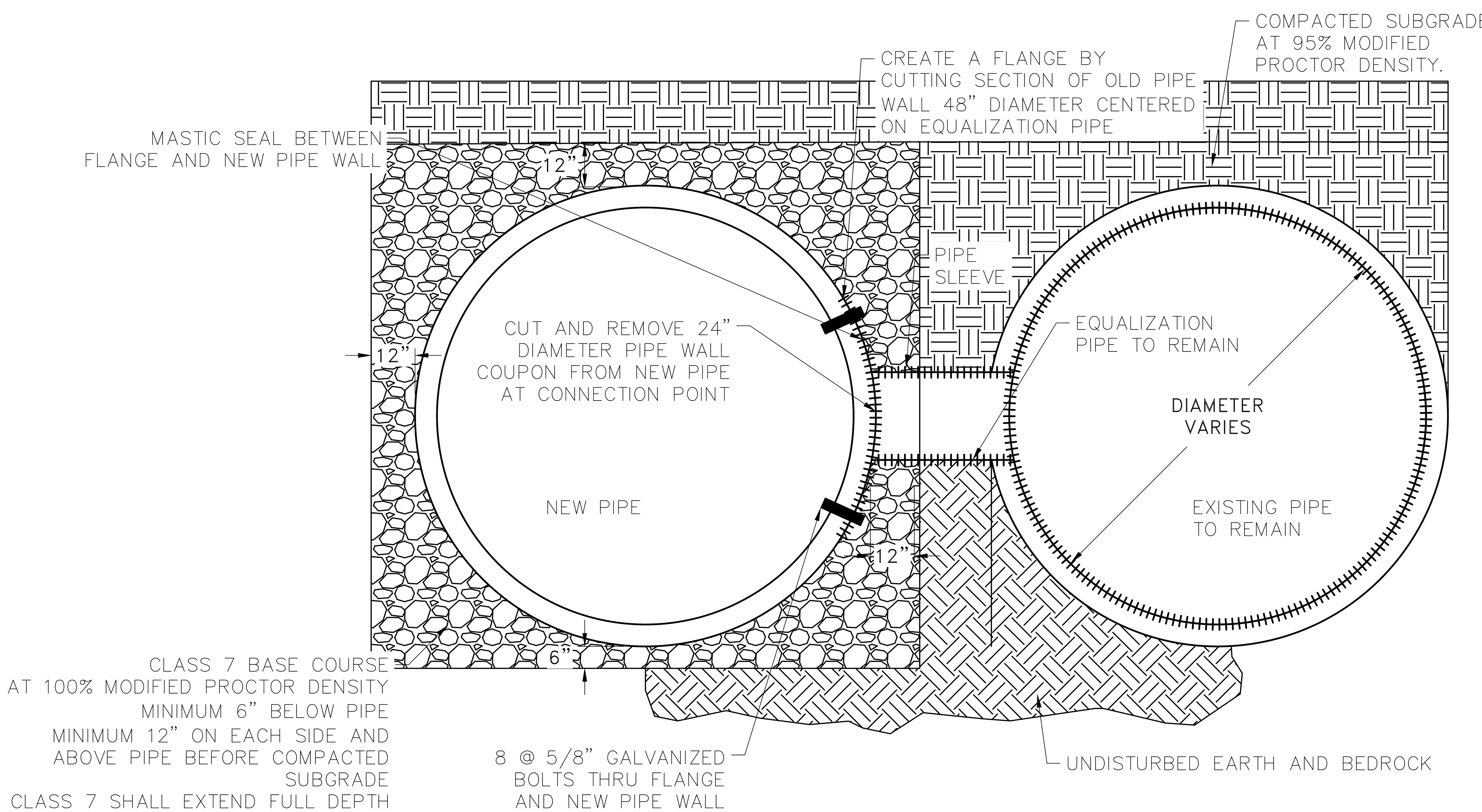
SHEET NO.	C4

CONTRACTOR IS CAUTIONED THAT EACH SECTION OF PIPE REMOVED SHALL BE IMMEDIATELY REPLACED WITH THE NEW PIPE SECTION.

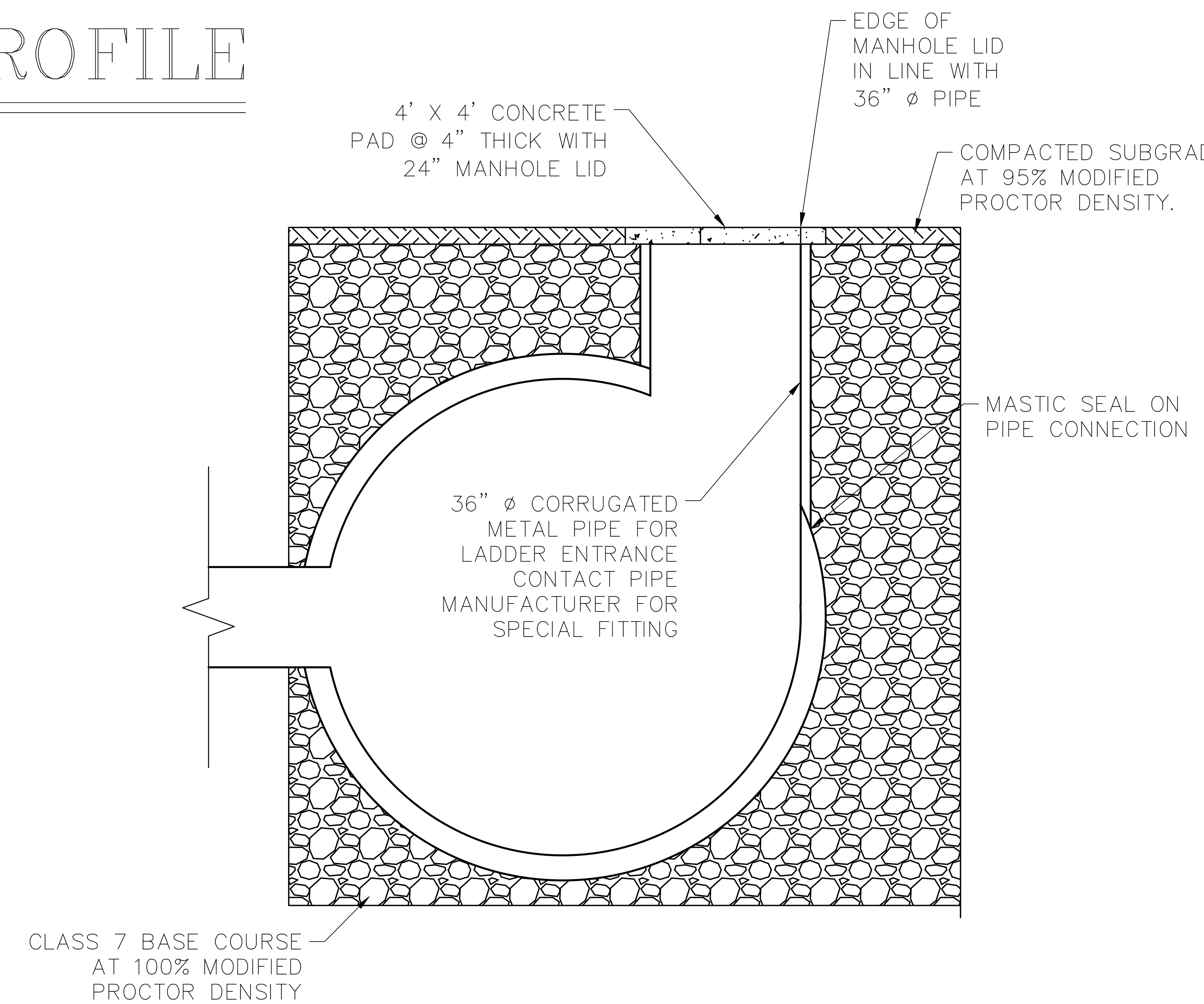




METAL PIPE CONNECTION PROFILE



EQUALIZATION PIPE CONNECTIONS



ACCESS MANHOLE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
TYPICAL SECTIONS (3)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
12/6/21

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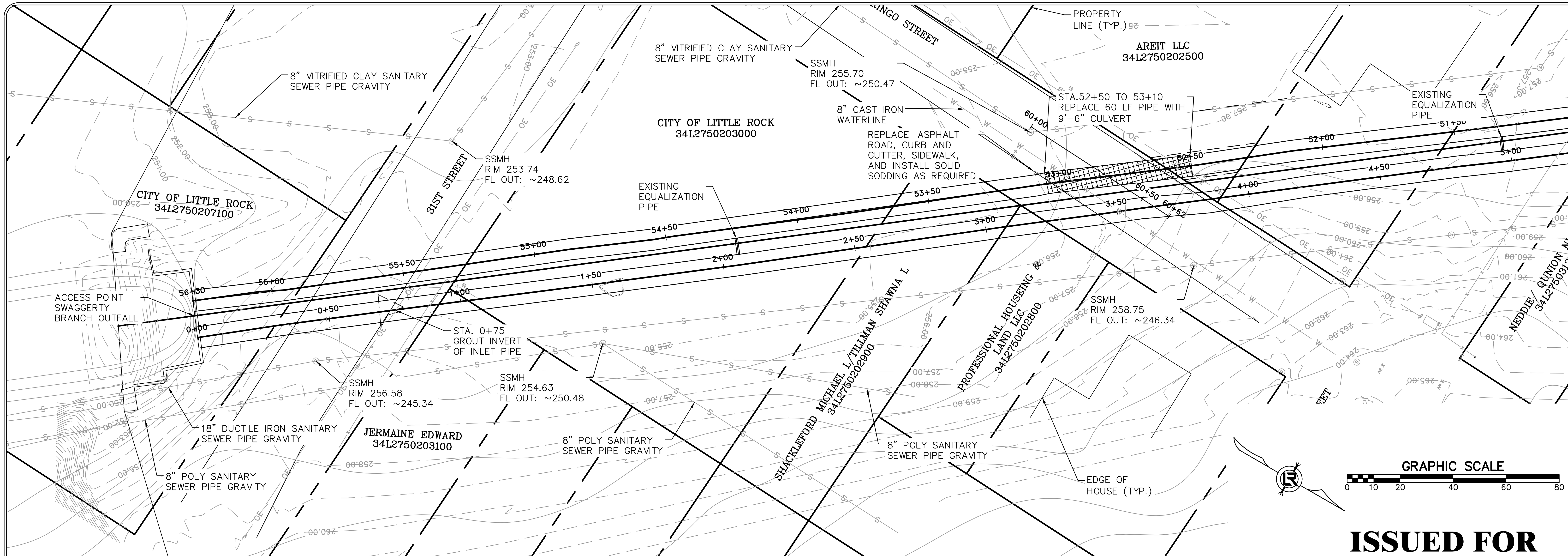
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C5



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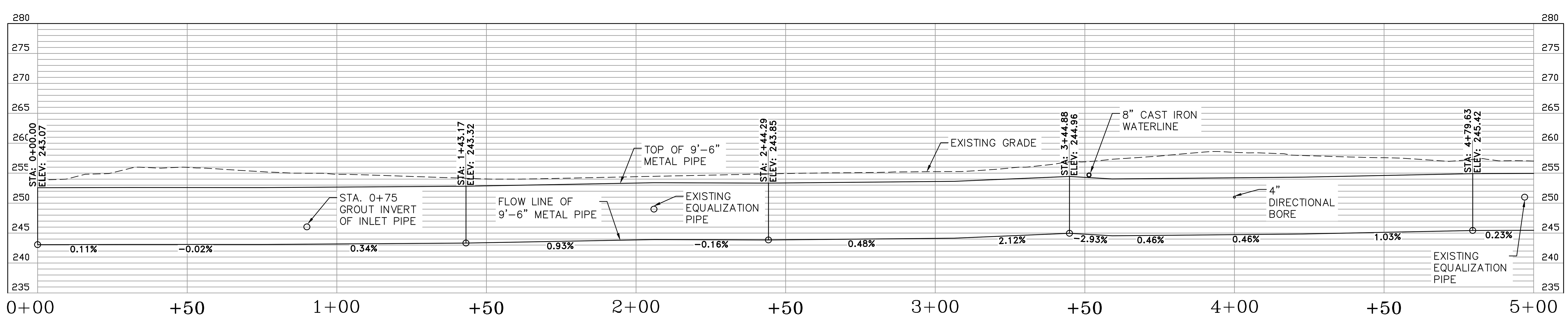

EAST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET (1)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

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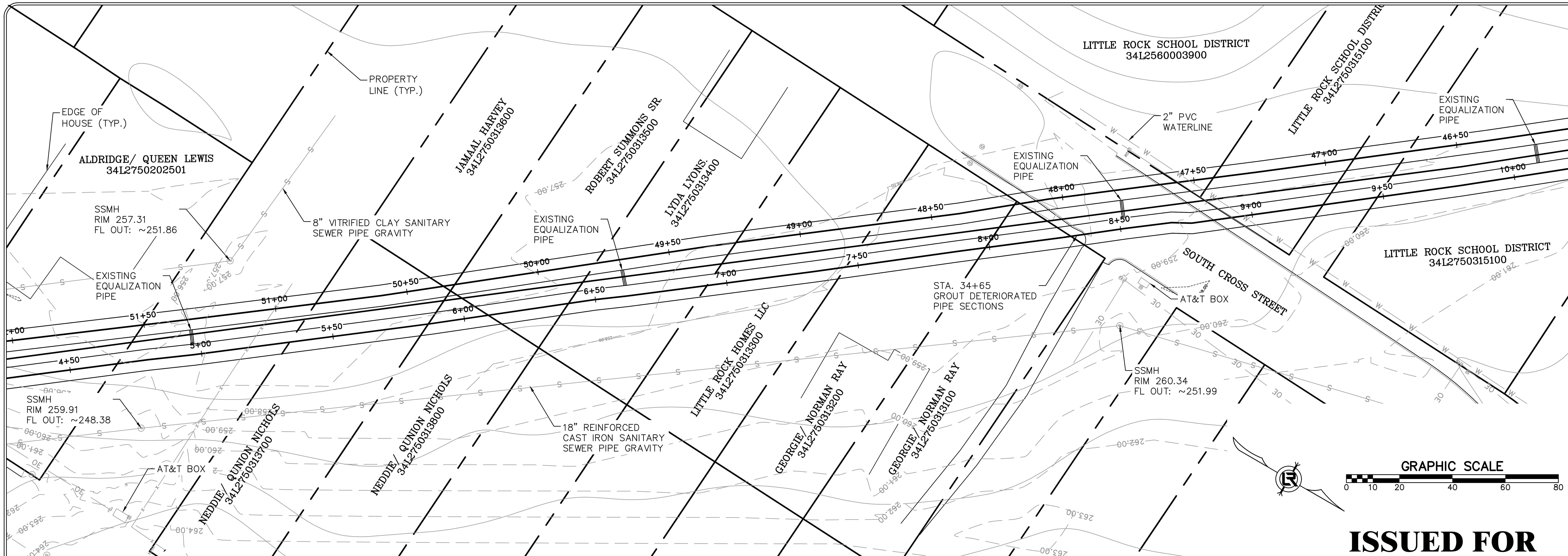
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C6



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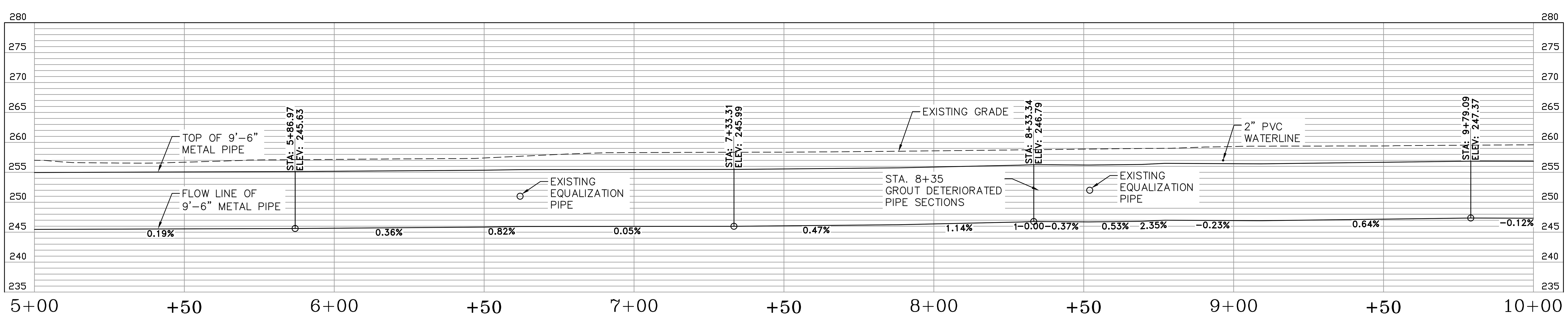

EAST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET (2)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER

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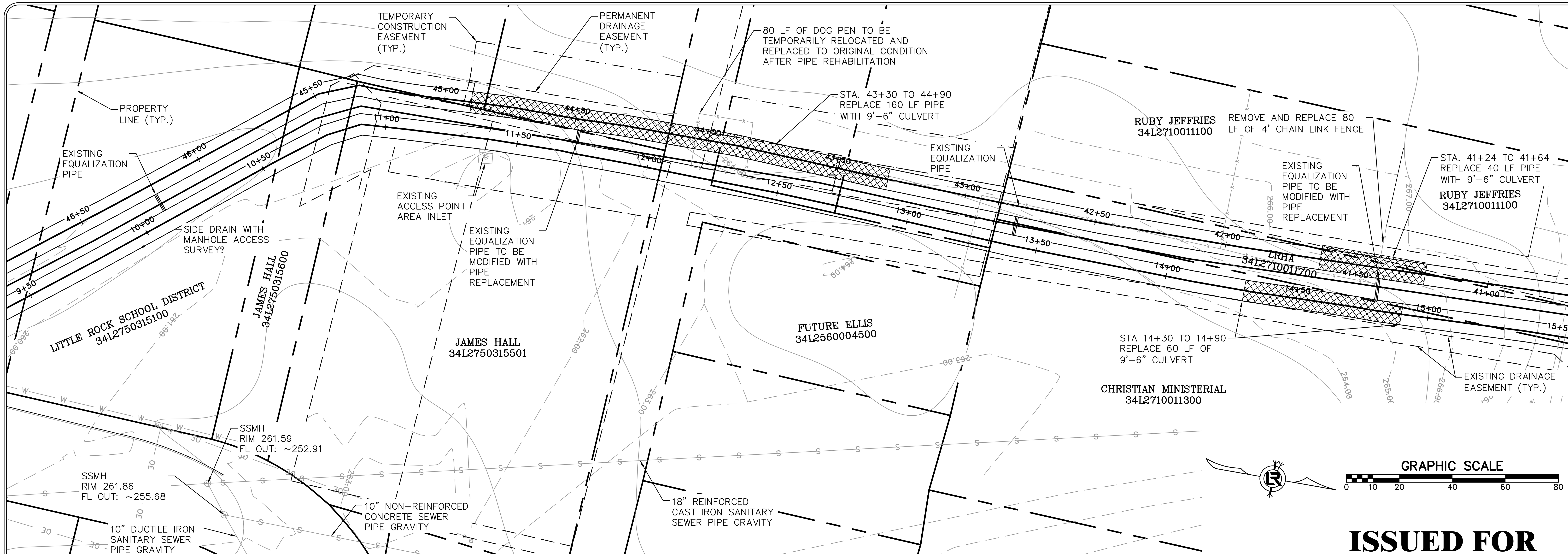
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C7



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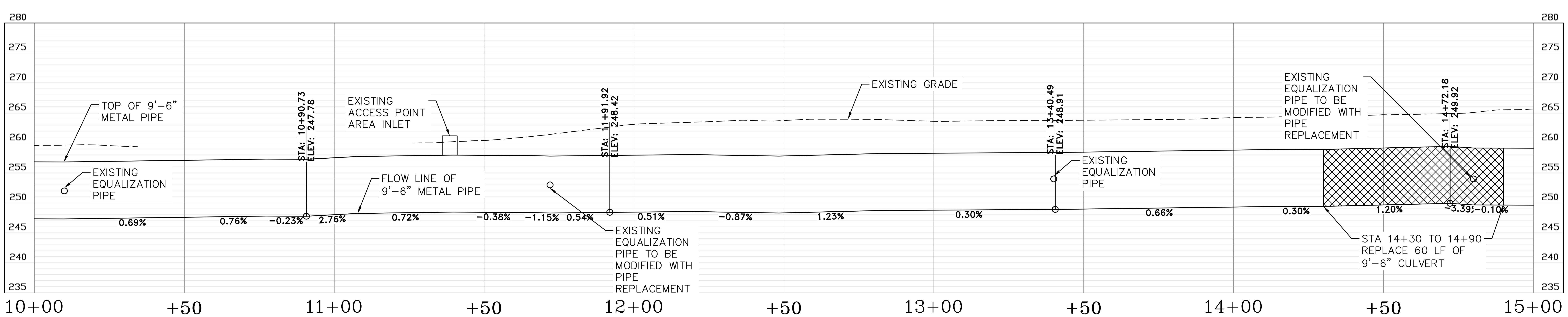

EAST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (3)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER

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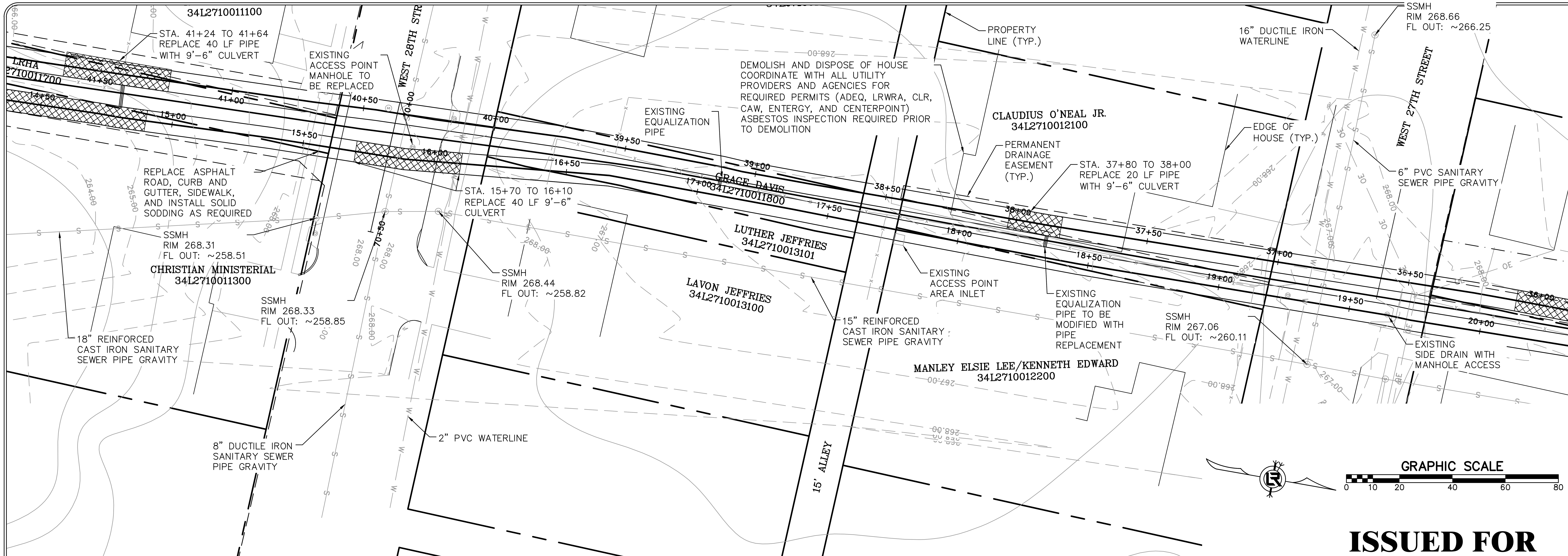
SHEET NO.	C8



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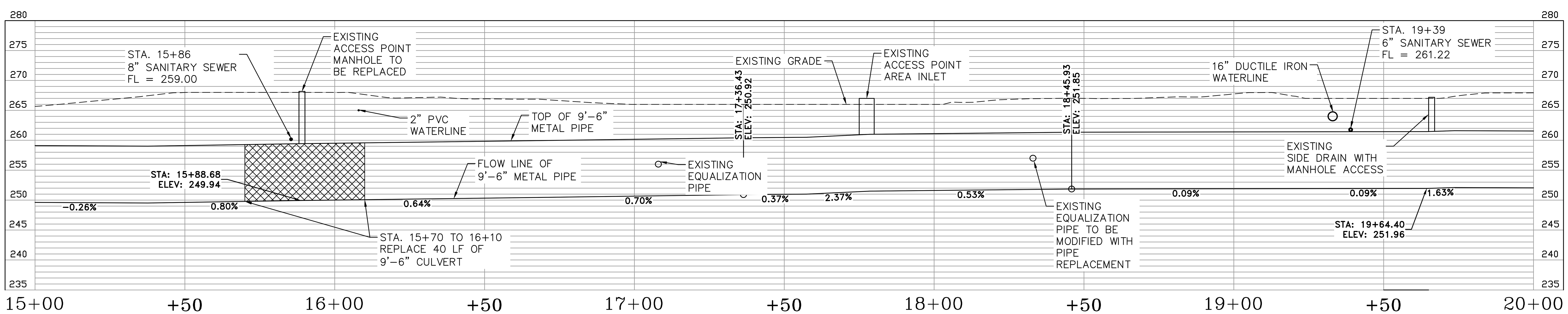

EAST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (4)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER

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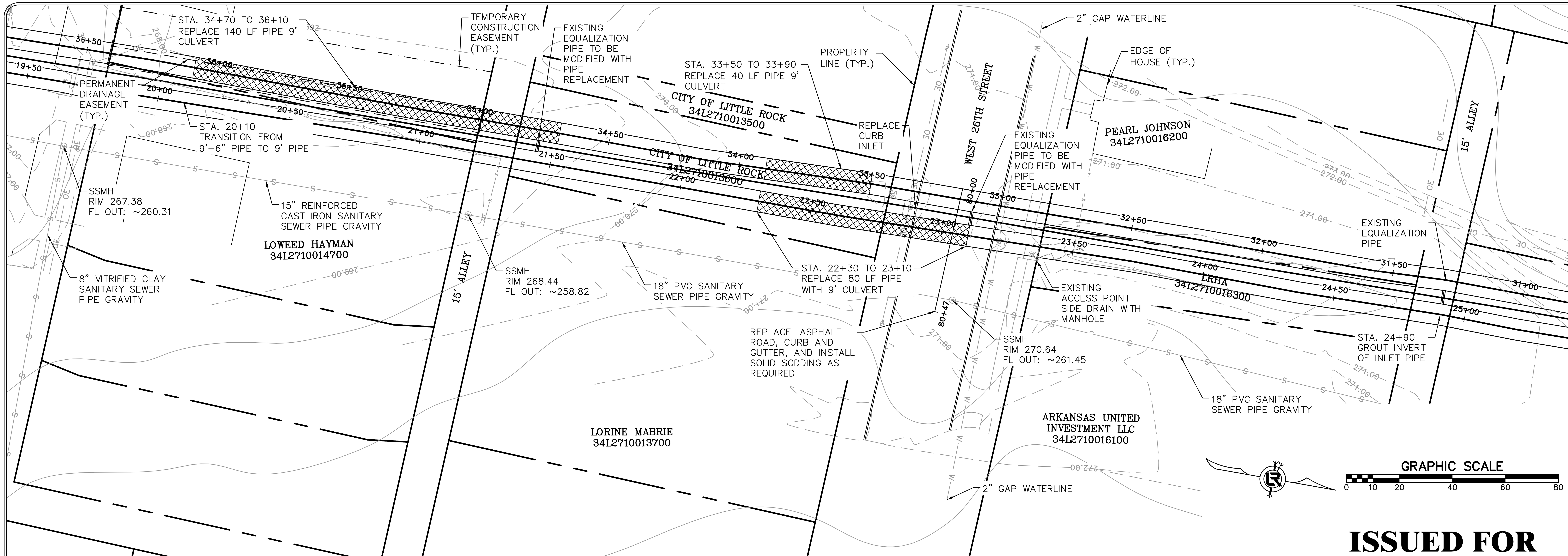
SCALE	NTS
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C9



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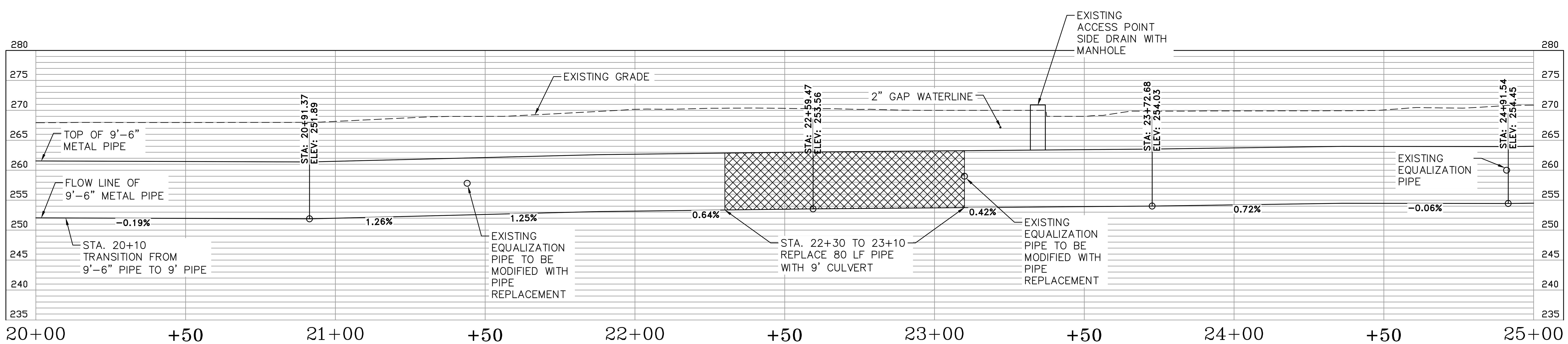

EAST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET (5)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER

DRAWN BY	JTM
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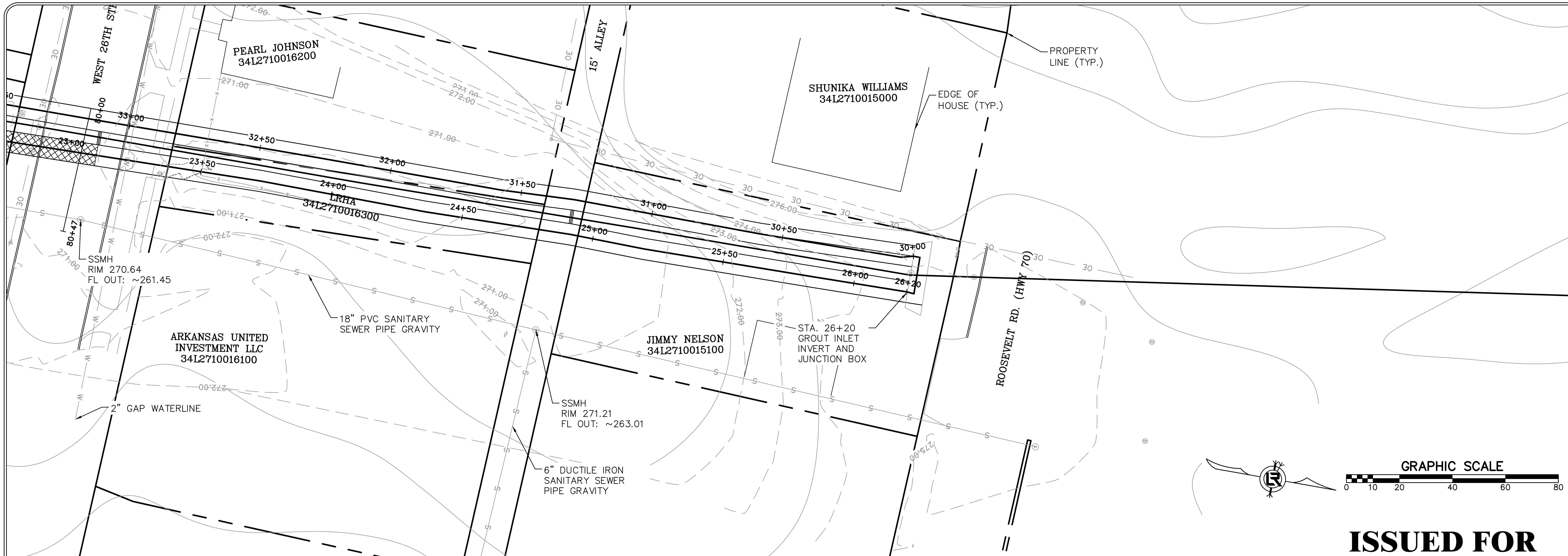
DATE	12-6-21
SCALE	NTS
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C10



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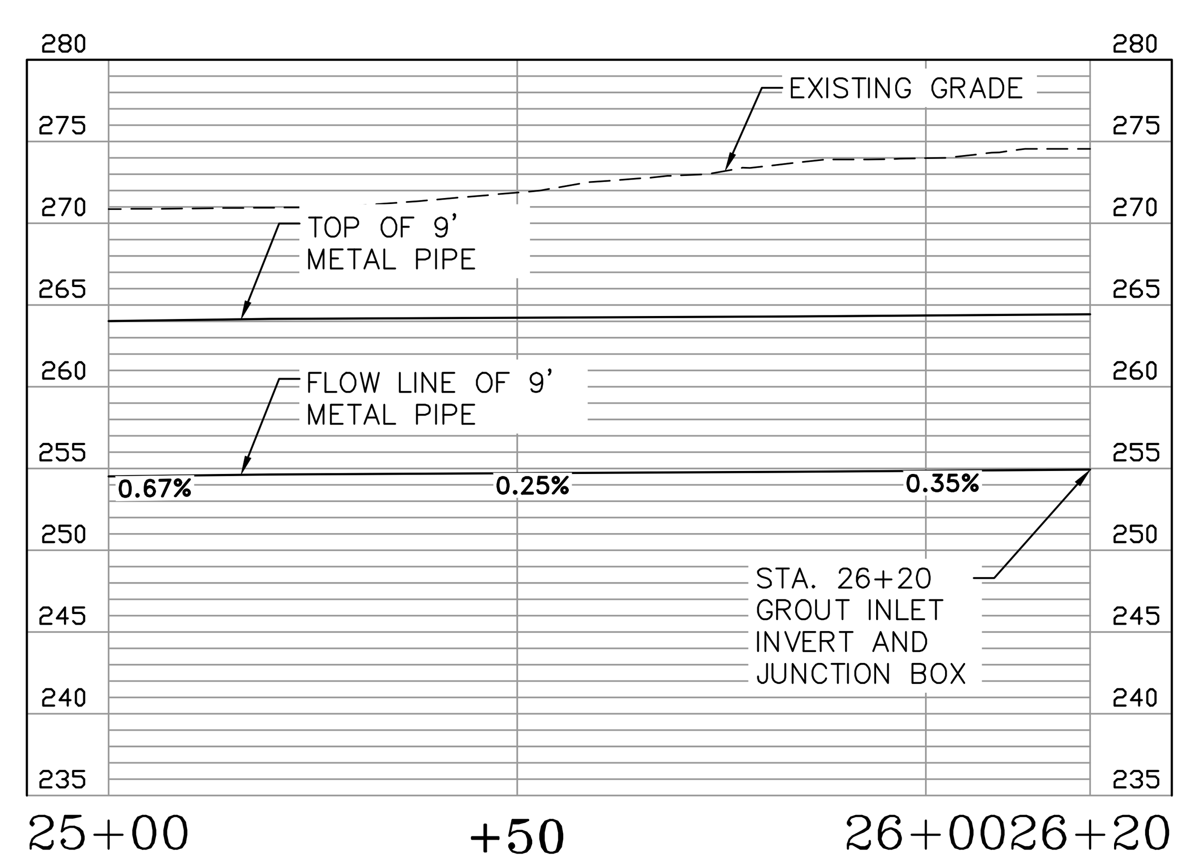

EAST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET (6)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER

12/6/21

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JTM
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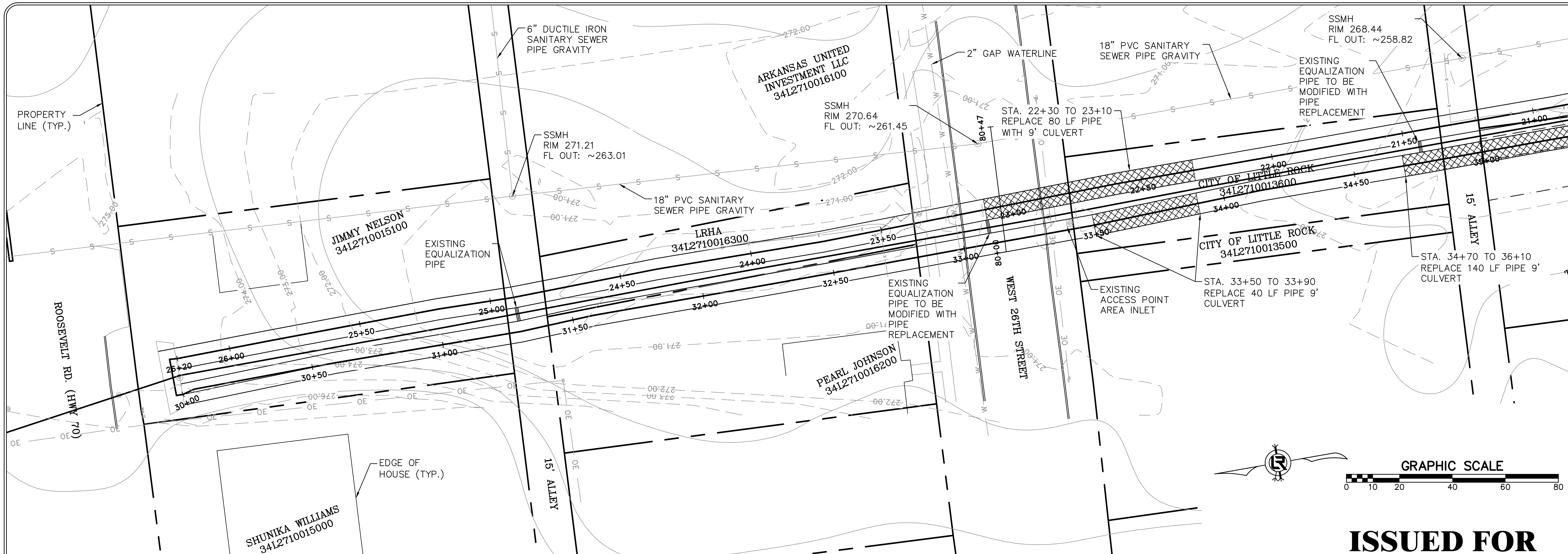
CLR #01-17-DR-9
SHEET NO.
C11



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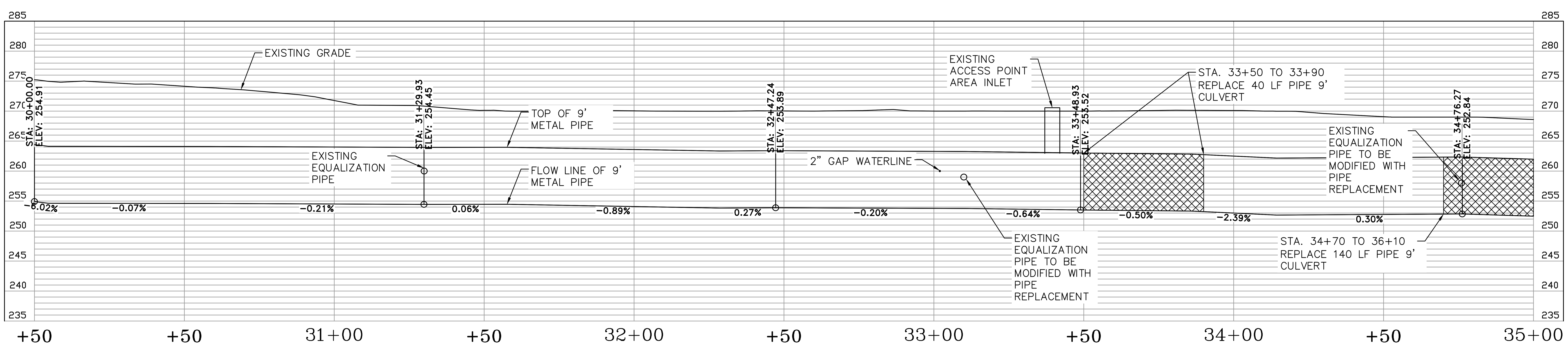

WEST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (7)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

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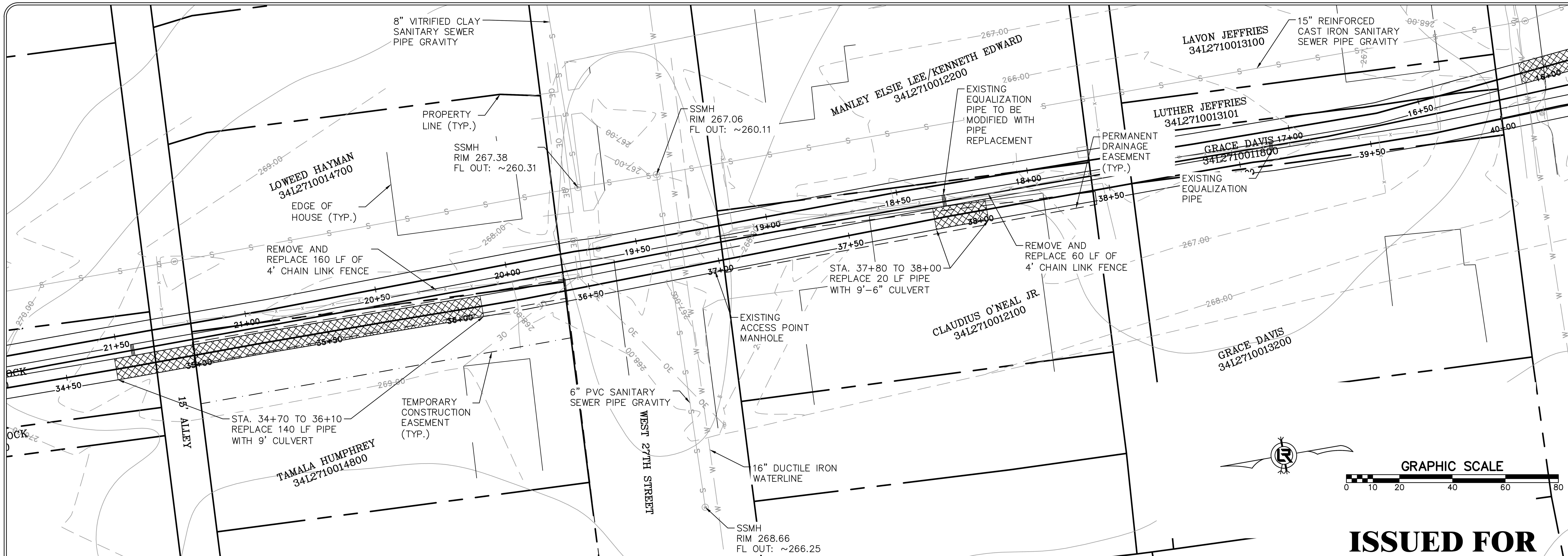
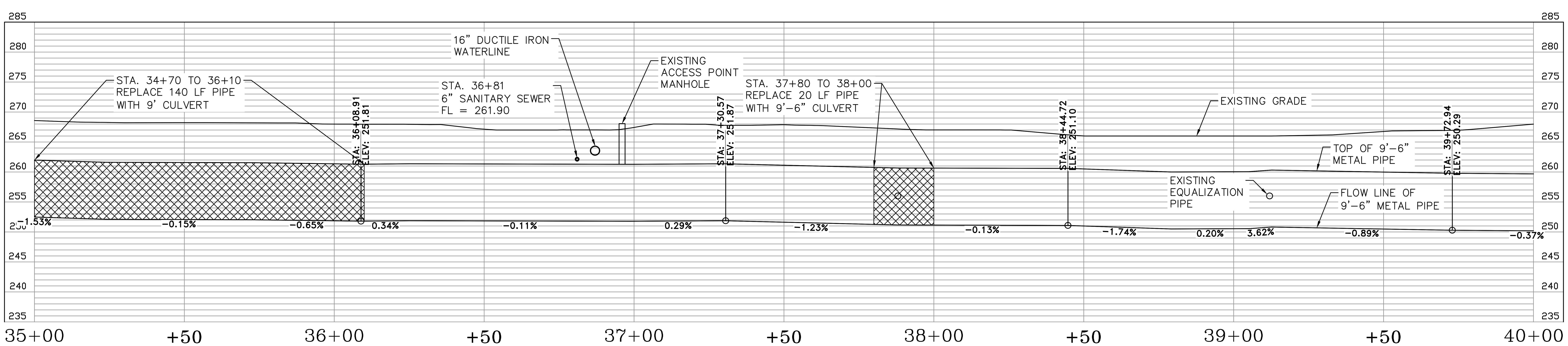
SHEET NO.	C12



ISSUED FOR CONSTRUCTION



WEST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (8)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER

DRAWN BY	JTM
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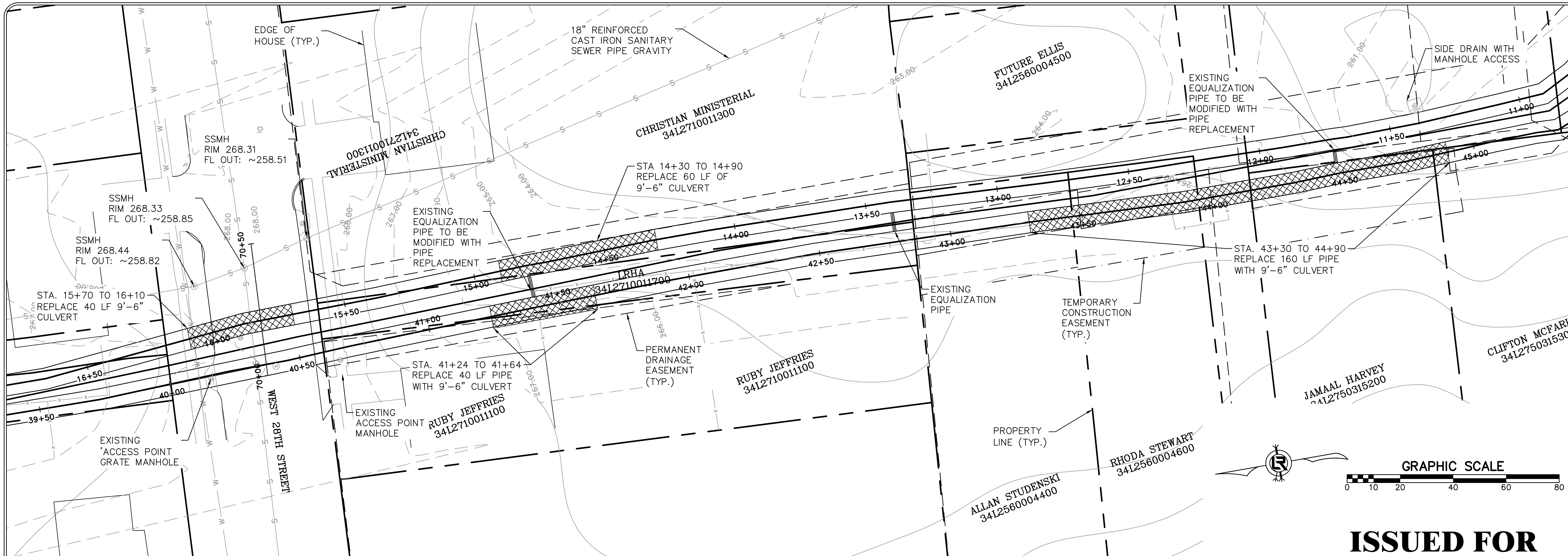
DATE	12-6-21
SCALE	NTS
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C13



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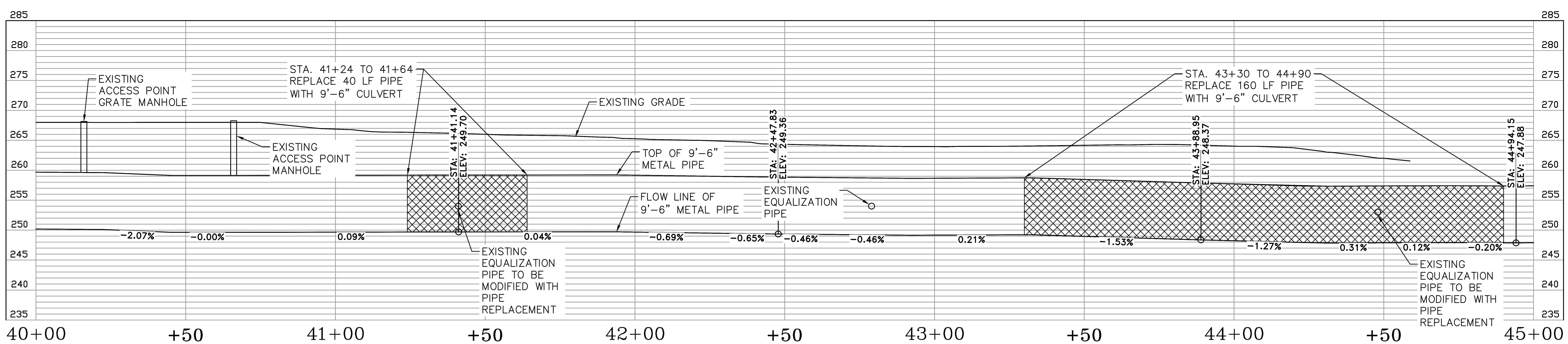

WEST PIPE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET (9)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

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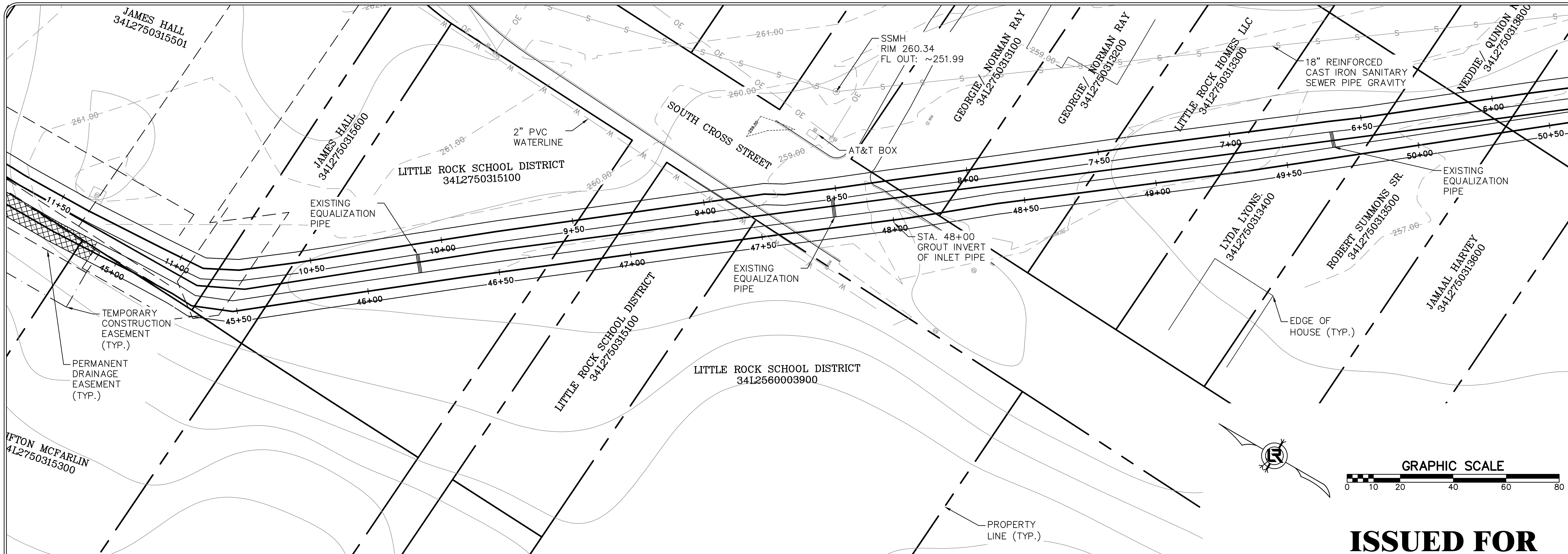
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C14



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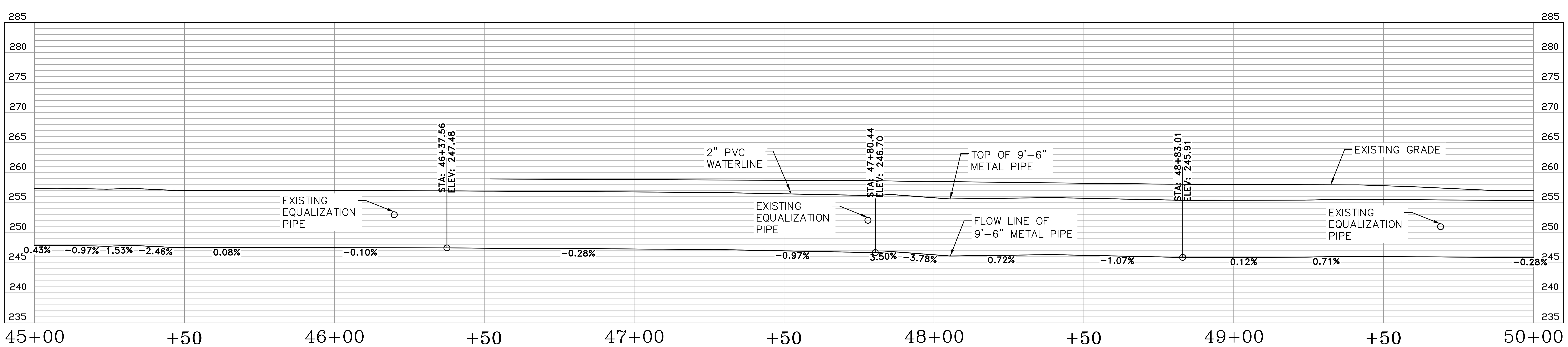

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REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (10)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
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DATE	12-6-21
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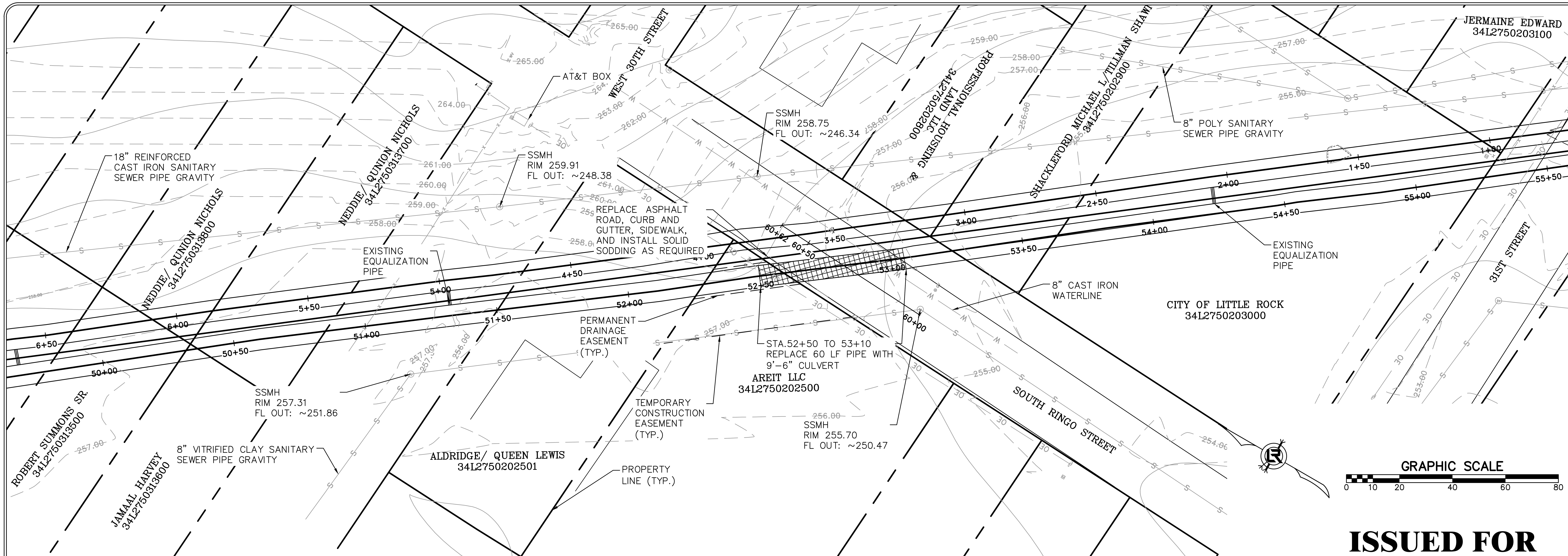
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C15



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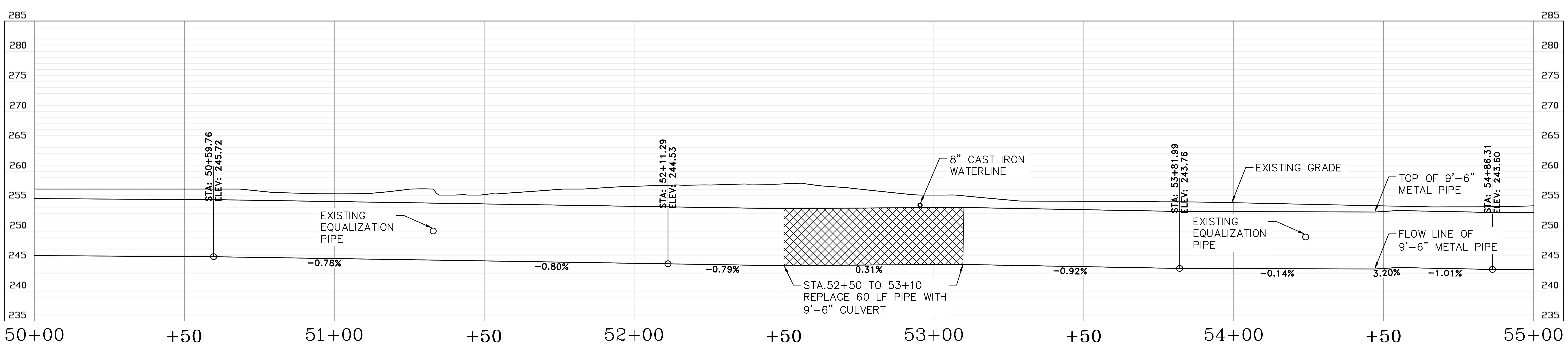

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CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (11)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
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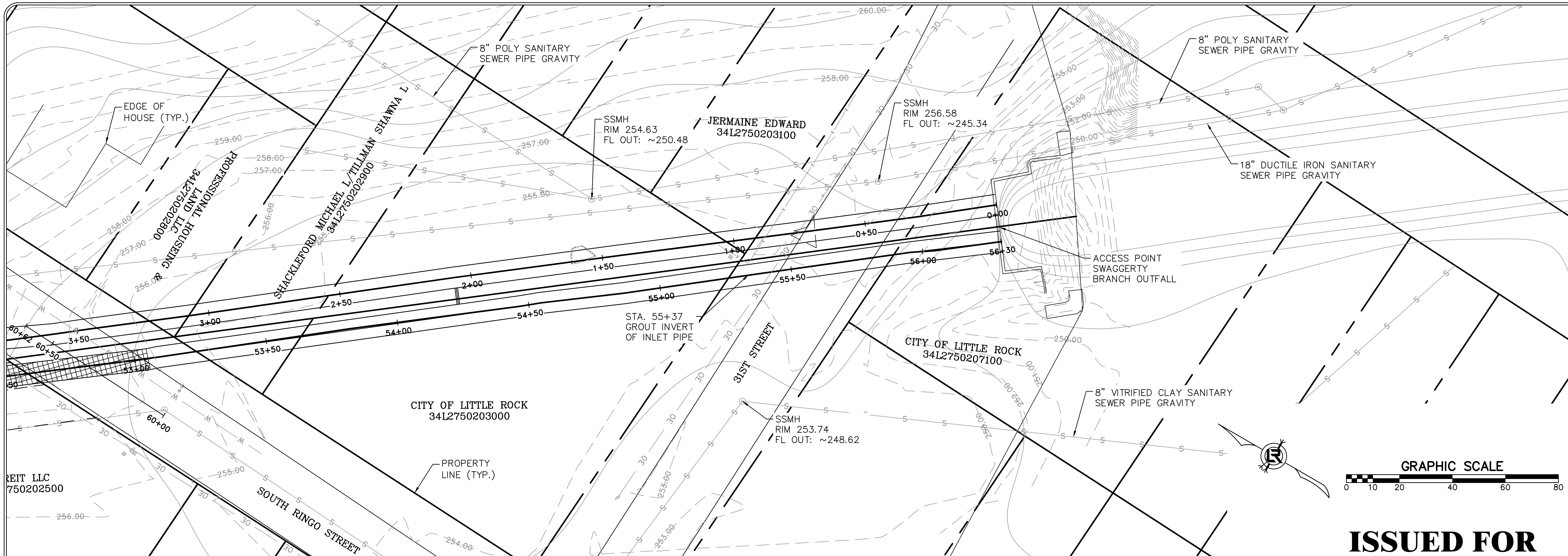
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C16



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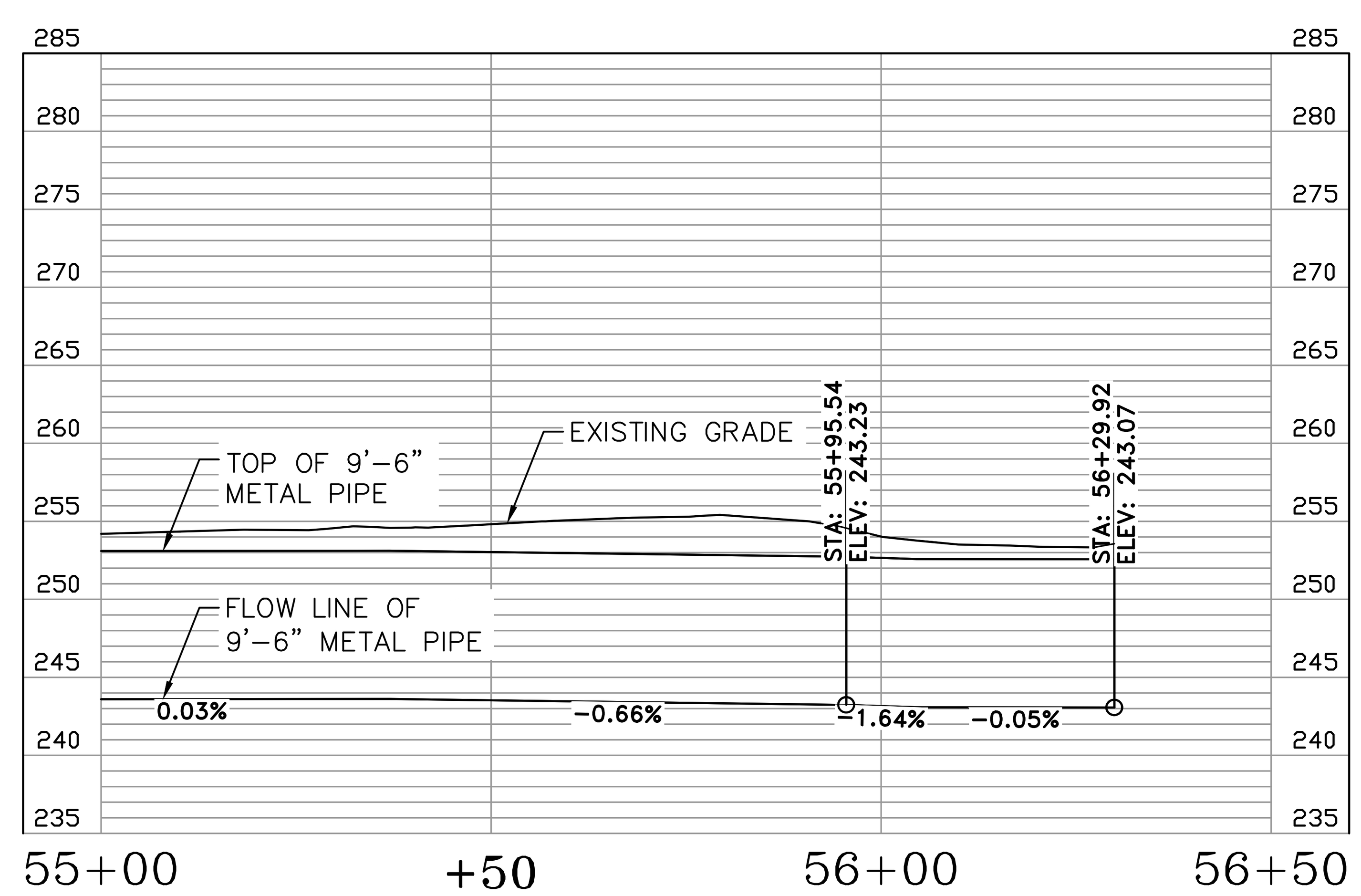

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REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
SWAGGERTY DRAINAGE IMPROVEMENTS
PLAN AND PROFILE SHEET (12)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER

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DATE	12-6-21
SCALE	NTS
PROJECT NO.	CLR #01-17-DR-9
SHEET NO.	C17