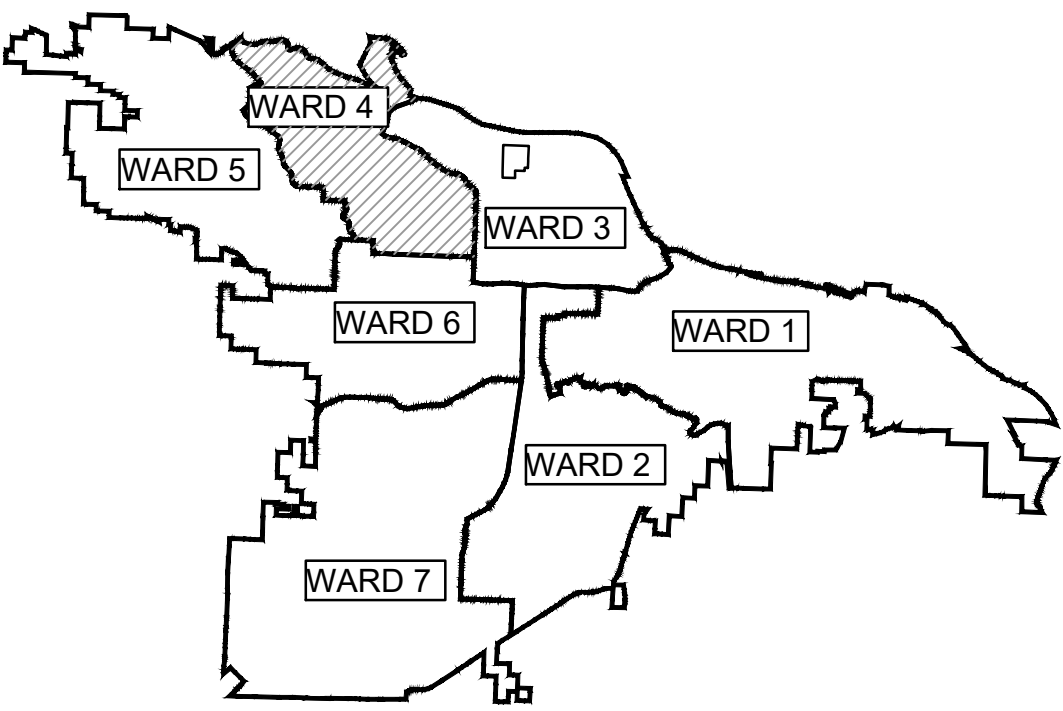
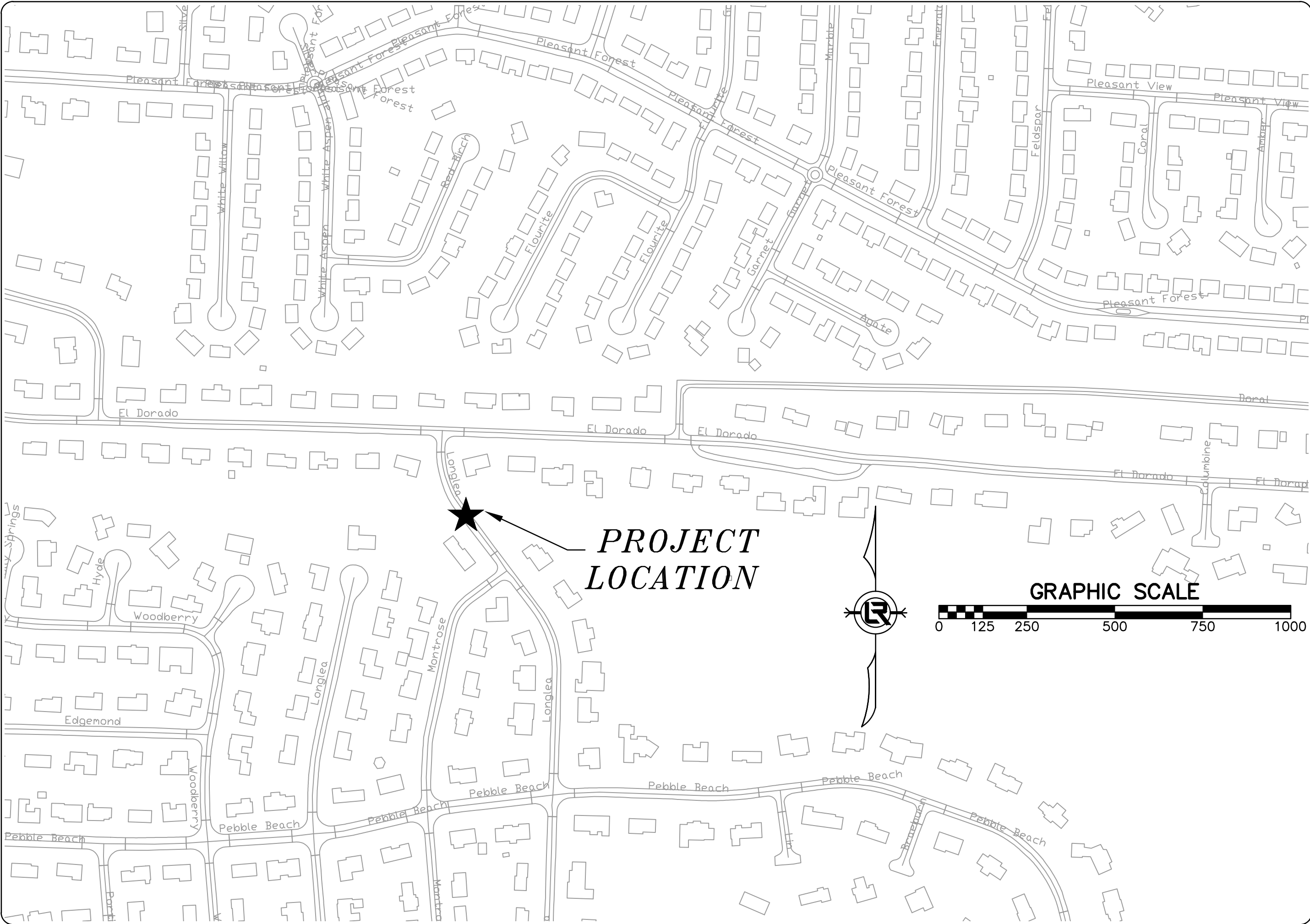


PROJECT 04-17-DR-171
LONGLEA DRIVE
LITTLE ROCK, AR



PROJECT LOCATION - WARD 4

SHEET NO.	TITLE
C1	COVER SHEET
C2	GENERAL NOTES, LEGENDS, AND QUANTITIES
C3	EXISTING CONDITIONS
C4	PLAN AND PROFILE SHEET
C5	SPECIAL DETAILS I
C6	SPECIAL DETAILS II
C7	TRAFFIC CONTROL



90%
SUBMITTAL



2019-2021
BOND PROGRAM

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



FTN ASSOCIATES LTD.
LITTLE ROCK, AR

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS	COVER SHEET
LONGLEA DRIVE	

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

SEAL

DRAWN BY	CKS
DESIGNED	JJG
CHECKED	JJG
DATE	12/17/2019
SCALE	1"=250'
PROJECT NO.	04-17-DR-171
SHEET NO.	C1

	Longlea Drive Drainage		
	Conceptual Design (90%)		
	December 17, 2019		
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
	Longlea Drive Culvert Replacement		
2.01	Site Preparation, Including Mobilization	LS	1
3.01	Unclassified Excavation	CY	0
4.01	Aggregate Base Course (Class 7)	TON	60
5.01	Tack Coat	GAL	8
6.01	ACHM Surface Course	TON	30
8.03	Concrete Curb and Gutter (Class 3)	LF	60
11.01	Reinforced Concrete Pre-Cast Box Culvert (10'x5')	LF	54
11.10	Reinforced Concrete	CY	30
16.01	Maintenance of Traffic	LS	1
17.01	Pavement Repairs	SY	30
19.01	Final Cleanup	LS	1
26.10	Trench and Excavation Safety	LS	1
28.00	Guard Rail	LF	40
28.01	Guard Rail Anchor Posts	EA	6

	Longlea Drive Drainage - CURB REPLACEMENT ALTERNATE		
	Conceptual Design (90%)		
	December 17, 2019		
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
	Longlea Drive Culvert Replacement		
2.01	Site Preparation	LS	1
3.01	Unclassified Excavation	CY	10
4.01	Aggregate Base Course (Class 7)	TON	10
5.01	Tack Coat	GAL	10
6.01	ACHM Surface Course	TON	12
8.03	Concrete Curb and Gutter (Class 3)	LF	61
19.01	Final Cleanup	LS	1

NOTES:

THIS AREA IS FOR ANY SPECIAL CONDITIONS OR NOTES THAT NEED TO BE ADDED TO THE PLAN SET THAT ARE NOT COVERED IN THE BID/CONTRACT DOCUMENTS OR STANDARD SPECIFICATIONS.

EXISTING		PROPOSED
IRON ROD	○ IR	PROPOSED CONTOUR
PK NAIL	○ PK	PROPOSED SPOT ELEVATION
R.R. SPIKE	○ RR(Sp)	PROPOSED SPOT CURB ELEVATION
CONC. MONUMENT	□ CM	STORM SEWER – PIPE
WATER VALVE	⊗ WV	STORM SEWER – MITERED END SECTION
WATER METER	⊞ WM	STORM SEWER – GRATE INLET
FIRE HYDRANT	⊘ FH	
GAS METER	⊞ GM	STORM SEWER – JUNCTION BOX
GAS VALVE	⊗ GV	STORM SEWER – FLARED END SECTION
CLEAN-OUT	○ CO	STORM SEWER – HEADWALL
GUARD POST (BOLLARD)	● GP	STORM SEWER – SINGLE WING
SIGN POST	⊕	STORM SEWER – DOUBLE WING
BENCHMARK	⊕	STORM SEWER – AREA INLET
STORM SEWER MANHOLE	⊕	GRADE BREAK LINE
SANITARY SEWER MANHOLE	⊕	HIGH POINT
TELEPHONE MANHOLE	⊕	LOW POINT
	⊕	CUT LINE
	⊕	FILL LINE
	⊕	SANITARY SEWER PIPE
	⊕	SANITARY SEWER MANHOLE
	⊕	PROPOSED CURB
	⊕	PROPOSED CONCRETE
	⊕	CONSTRUCTION – ENTRANCE/EXIT
	⊕	CHECK DAM
	⊕	DIVERSION BERM
	⊕	DOWNDRAIN STRUCTURE – TEMPORARY
	⊕	ROCK DAM
	⊕	SEDIMENT BARRIER – SILT FENCE
	⊕	SEDIMENT BARRIER – GRAVEL RING
	⊕	SEDIMENT BARRIER – BLOCK & GRAVEL
	⊕	SEDIMENT BARRIER – BLOCK
	⊕	TEMPORARY SEDIMENT BASIN
	⊕	SILT FENCE – TYPE A
	⊕	SILT FENCE – TYPE B
	⊕	SILT FENCE – TYPE C
	⊕	STORM DRAIN OUTLET PROTECTION
	⊕	SURFACE ROUGHENING
	⊕	DISTURBED AREA STABILIZATION –TEMPORARY STABILIZATION
	⊕	DISTURBED AREA STABILIZATION –TEMPORARY GRASSING
	⊕	DISTURBED AREA STABILIZATION –PERMANENT GRASSING
	⊕	MATting/BLANKETS

90%
SUBMITTAL

REVISIONS

DATE

CITY OF LITTLE ROCK, ARKANSAS

LONGLEA DRIVE

INDEX SHEET

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201

DRAWN BY

CKS

DESIGNED

JJG

CHECKED

JJG

DATE

1217/2019

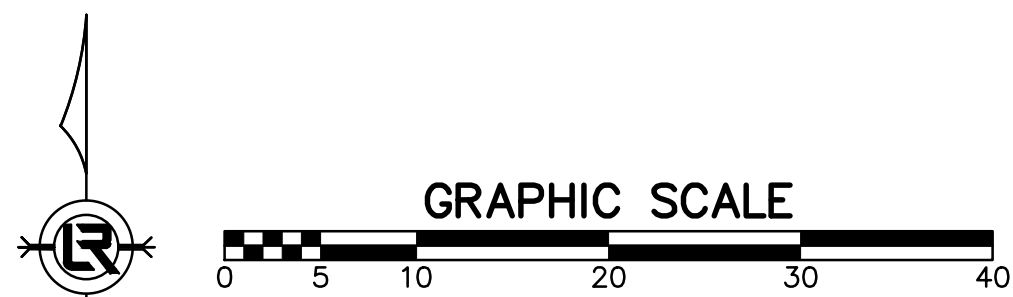
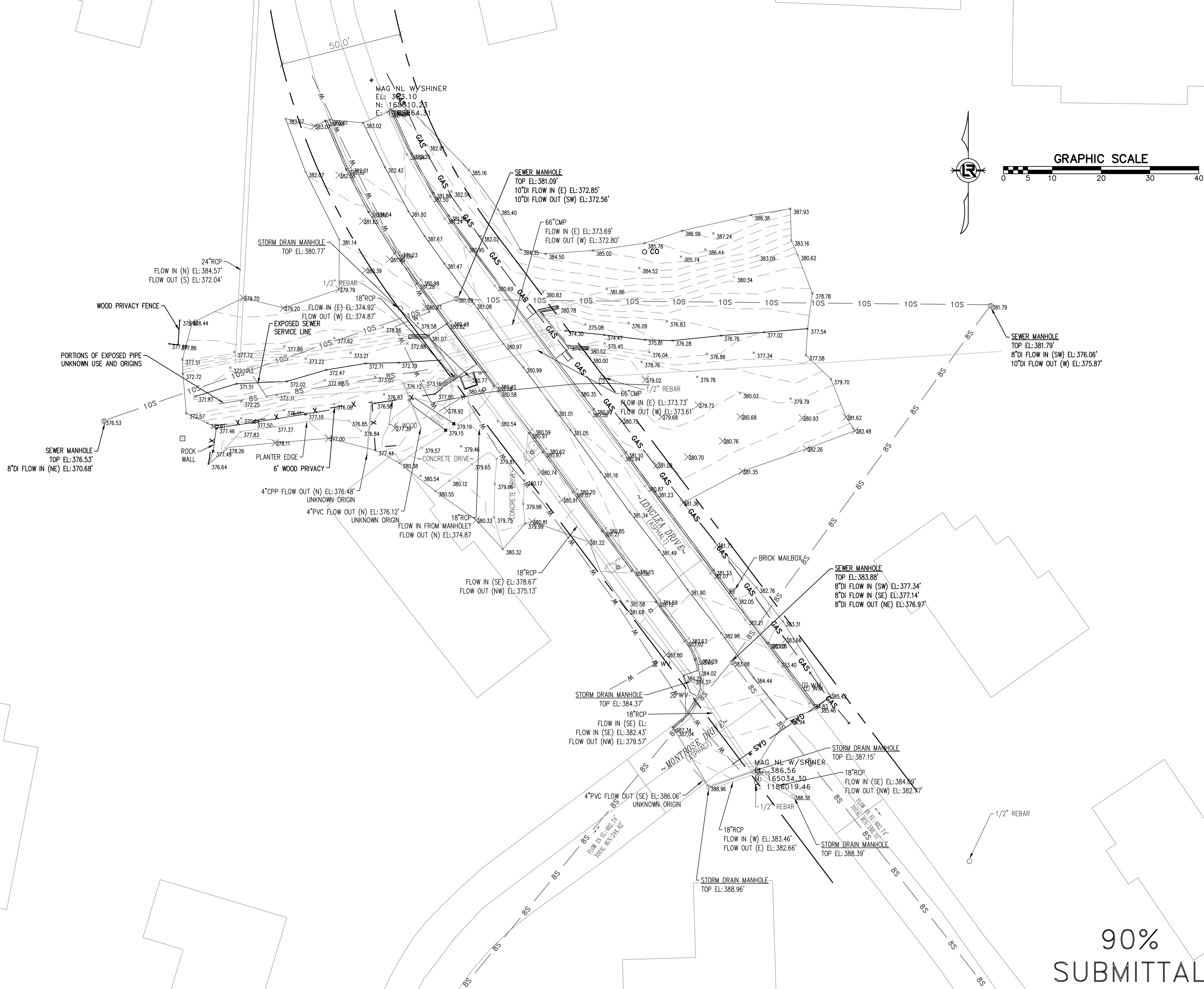
SCALE

PROJECT NO.

CLR 04-17-DR-171

SHEET NO.

C2

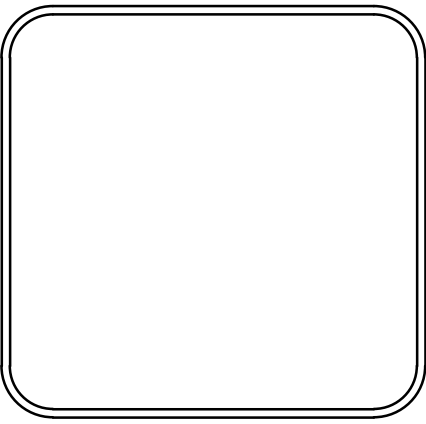


90%
SUBMITTAL

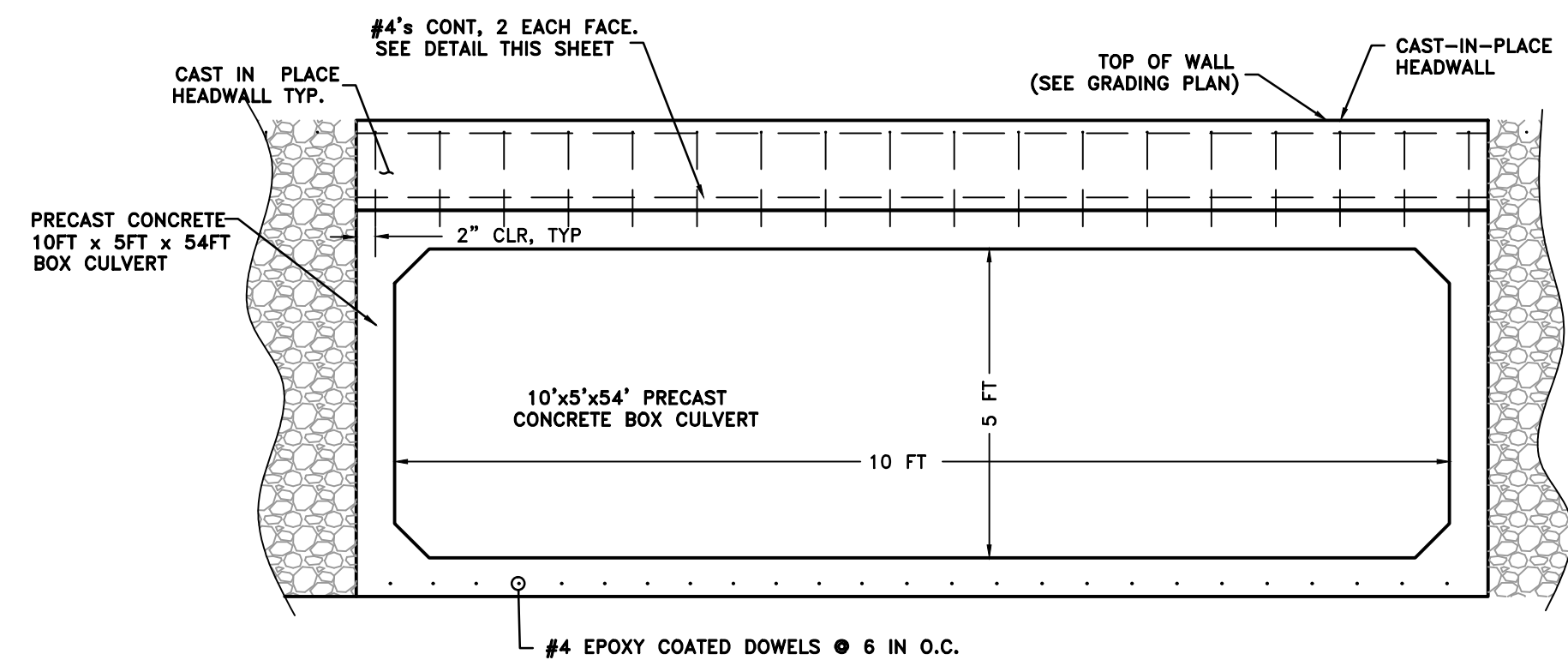
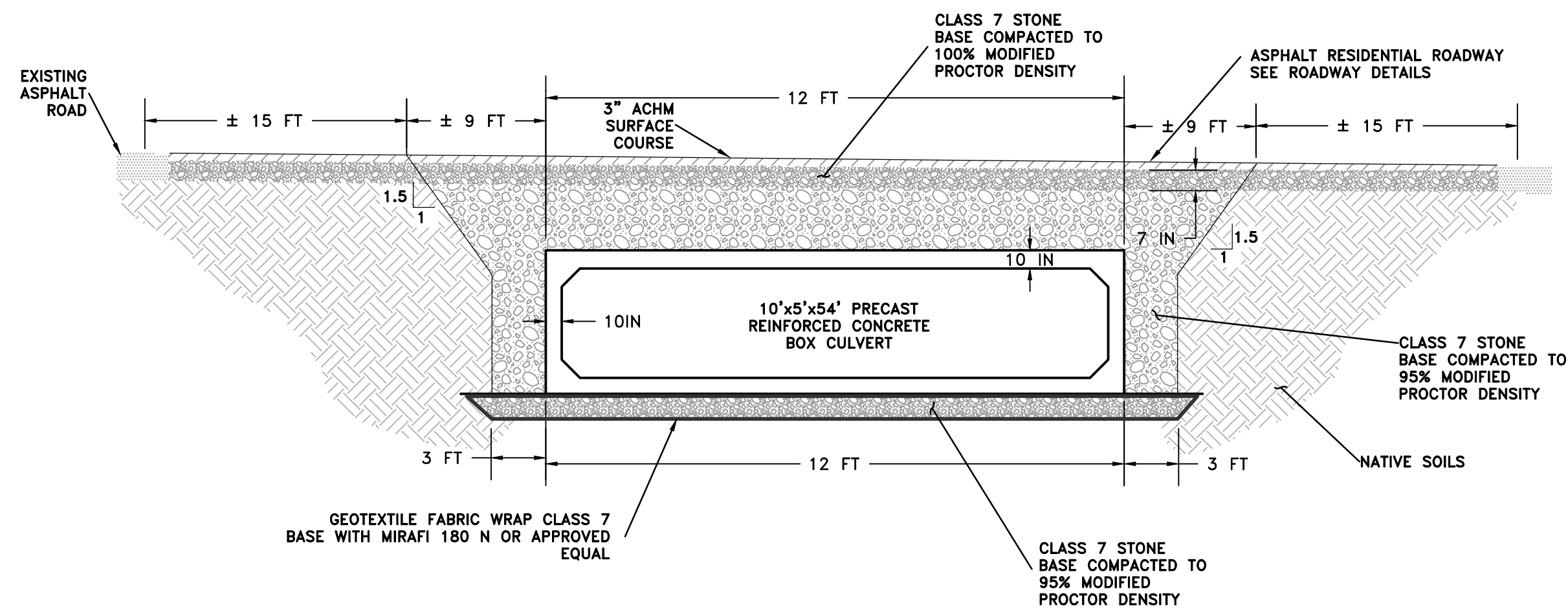
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
LONGLEA DRIVE
EXISTING CONDITIONS

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



DRAWN BY CKS
DESIGNED CKS
CHECKED JJG
DATE 12/17/2019
SCALE 1"=10'
PROJECT NO. CLR 04-17-DR-171
SHEET NO. C3



- GENERAL NOTES:**

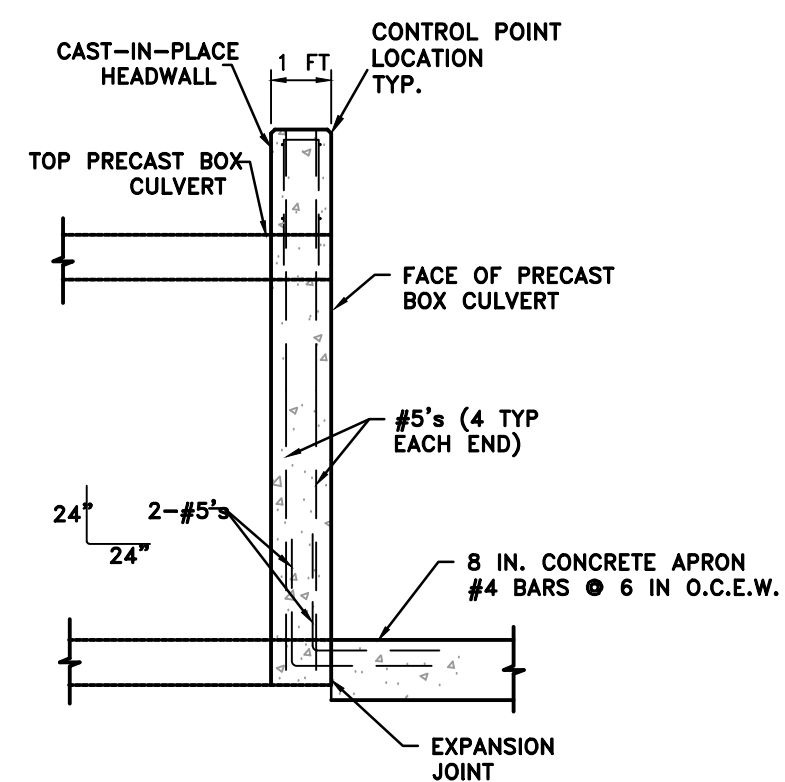
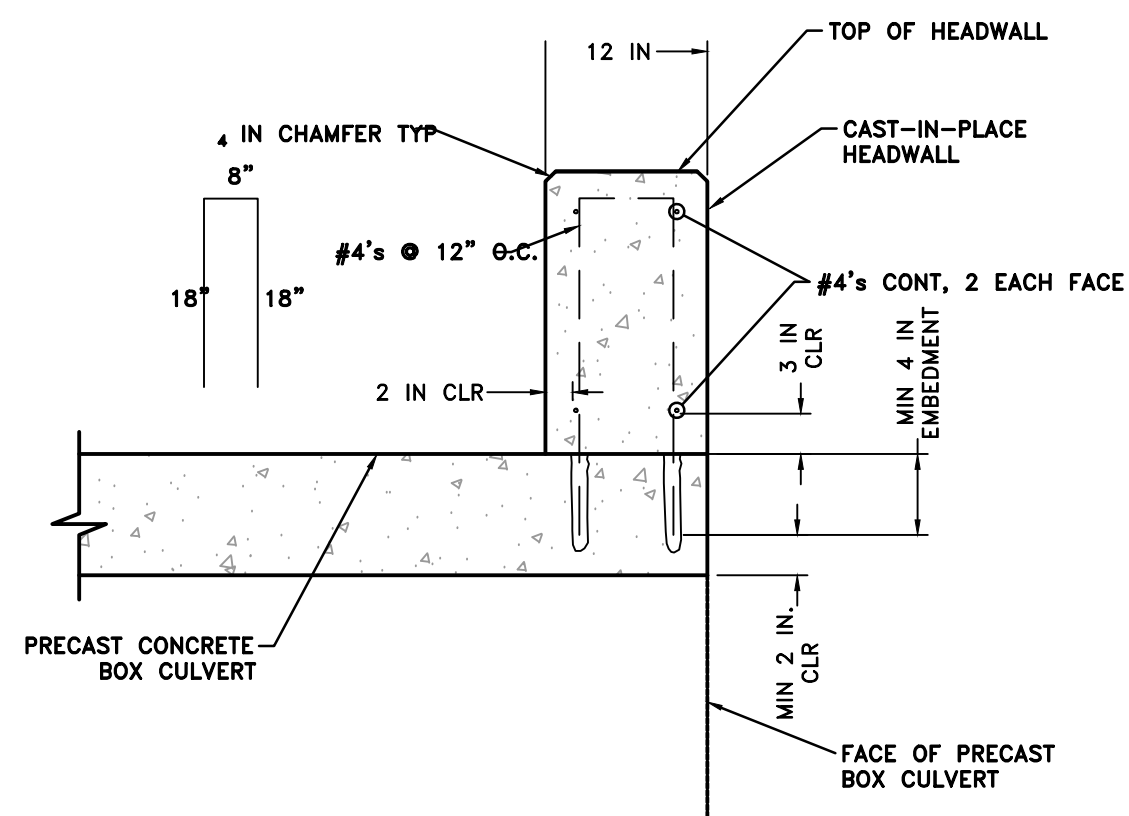
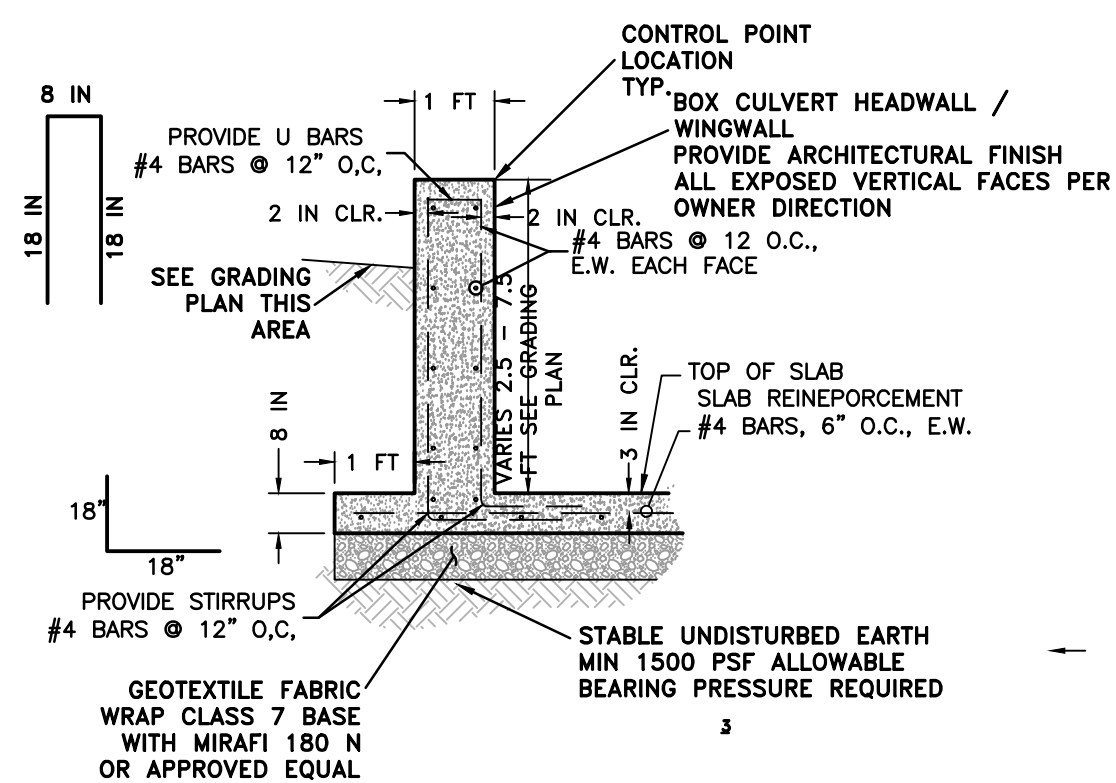
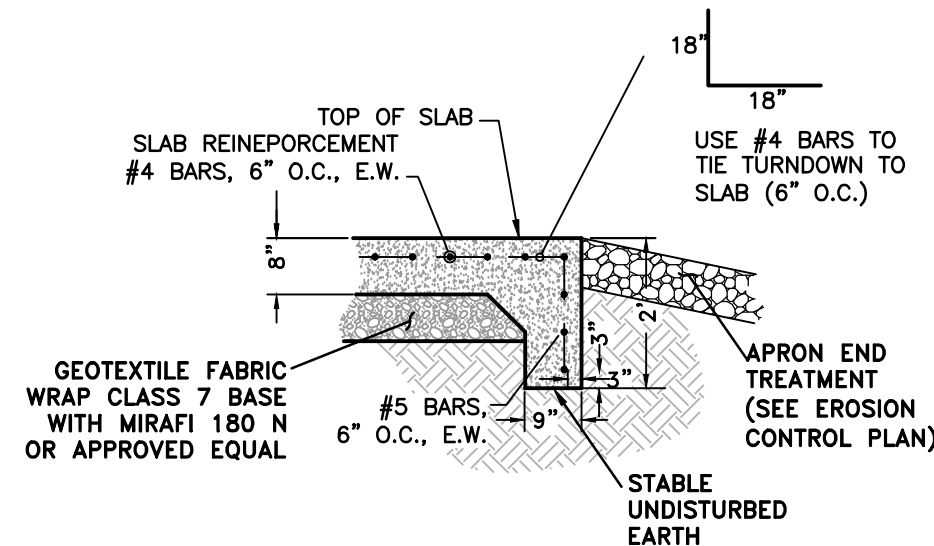
1. WINGS, CURTAIN WALLS AND APRONS SHALL BE TIED TO THE PRECAST CULVERT SECTION BY #4 BARS CAST INTO PRECAST BOX CULVERT END SECTIONS AS SHOWN OR BY DOWELING AND GROUTING.
2. ALL EXPOSED CORNERS SHALL HAVE 3/4" CHAMFERS.
3. SEE GENERAL NOTES AND TECHNICAL SPECIFICATIONS FOR CONCRETE AND REINFORCING REQUIREMENTS.
4. PROVIDE ARCHITECTURAL FINISH ALL EXPOSED VERTICAL FACES OF HEADWALLS AND WINGWALLS PER OWNER DIRECTION.

- LEAN GROUT REQUIREMENTS:**

1. PORTLAND CEMENT SHALL BE TYPE 1 AND SHALL MEET THE REQUIREMENTS OF AASHTO M 85.
2. SAND SHALL MEET THE REQUIREMENTS OF ASTM C 33 FINE AGGREGATE.
3. THE SAND CEMENT MIXTURE SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF PORTLAND CEMENT PER TON OF MATERIAL MIXTURE.
4. THE MIXTURE SHALL CONTAIN SUFFICIENT WATER TO HYDRATE THE CEMENT.
5. THE SAND CEMENT MIXTURE SHALL BE PLACED IN MAXIMUM 9 INCH THICK LIFTS. LOOSE MEASURE, AND RODDED AND TAMPED AROUND BOX TO THOROUGHLY FLID VOIDS.

NOTE:

1. PRECAST REINFORCED CONCRETE BOX CULVERTS JOINTS SHALL BE INSTALLED WITH PREFORMED FLEXIBLE PLASTIC JOINT MATERIAL (RAM-NKTE OR APPROVED EQUIV). INSTALL PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PLACE THE JOINT SEALER SO THAT NO DIRT OR OTHER DELETERIOUS MATERIALS COME IN CONTACT WITH THE JOINT SEALING MATERIAL. PULL OR PUSH HOME THE CULVERT END INTO THE JOINT SEALER. DO NOT FORCE THE CULVERT INTO THE JOINT SEALER. DO NOT FORCE THE INTERIOR OF THE PIPE THAT WOULD TEND TO OBSTRUCT THE FLOW. WHEN THE ATMOSPHERIC TEMPERATURE IS BELOW 60° F, STORE PREFORMED FLEXIBLE JOINT SEALANTS IN AN AREA WARMED TO ABOVE 70° F OR ARTIFICIALLY WARM TO THIS TEMPERATURE IN AN APPROVED MANNER. APPLY FLEXIBLE JOINT SEALANTS TO PIPE JOINTS AFTER THE JOINTS HAVE BEEN INSPECTED AND APPROVED. THEN CONNECT PIPE TO PREVIOUSLY LAID PIPE. BACKFILL



APRON KEY

WINGWALL

HEADWALL ANCHORING

HEADWALL

90%
SUBMITTAL

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

LONGLEA DRIVE

SPECIAL DETAILS 1 OF 2

DEPARTMENT OF PUBLIC WORKS

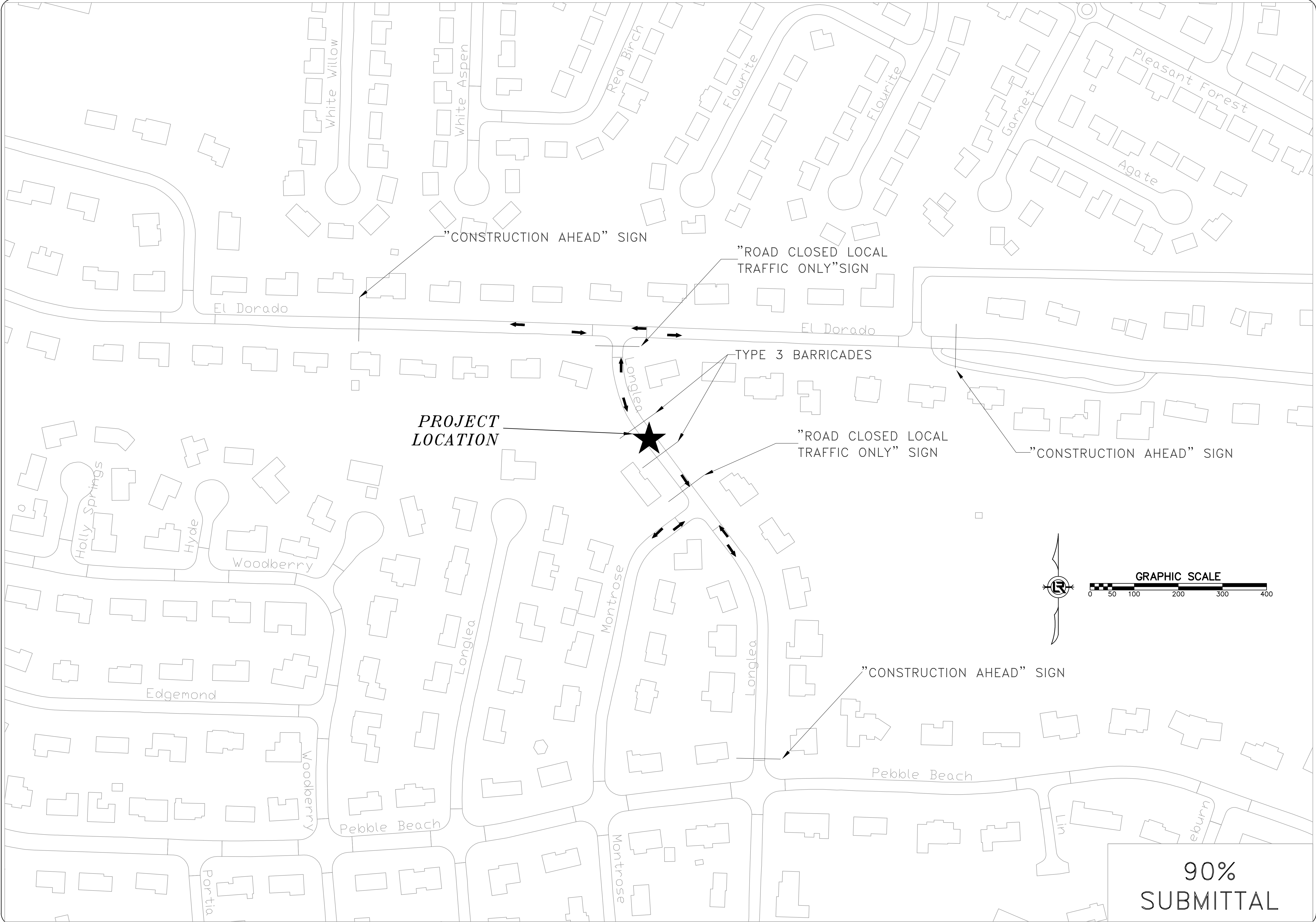
CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



DRAWN BY CKS
DESIGNED JJG
CHECKED JJG
DATE 12/17/19
SCALE N.T.S.
PROJECT NO. CLR 04-17-DR-171
SHEET NO. C5



REVISIONS	DATE

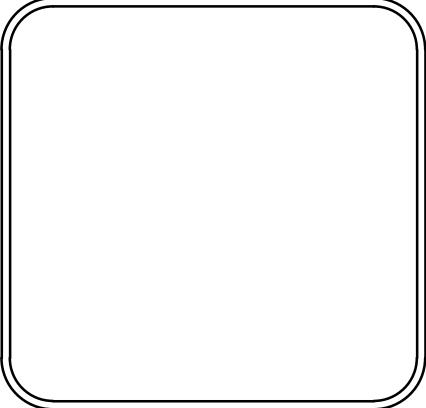
CITY OF LITTLE ROCK, ARKANSAS

LONGLEA DRIVE

TRAFFIC CONTROL


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





DRAWN BY	CKS
DESIGNED	JJG
CHECKED	JJG
DATE	12/17/2019
SCALE	1"=100'
PROJECT NO.	04-17-DR-171
SHEET NO.	C7

90%
SUBMITTAL