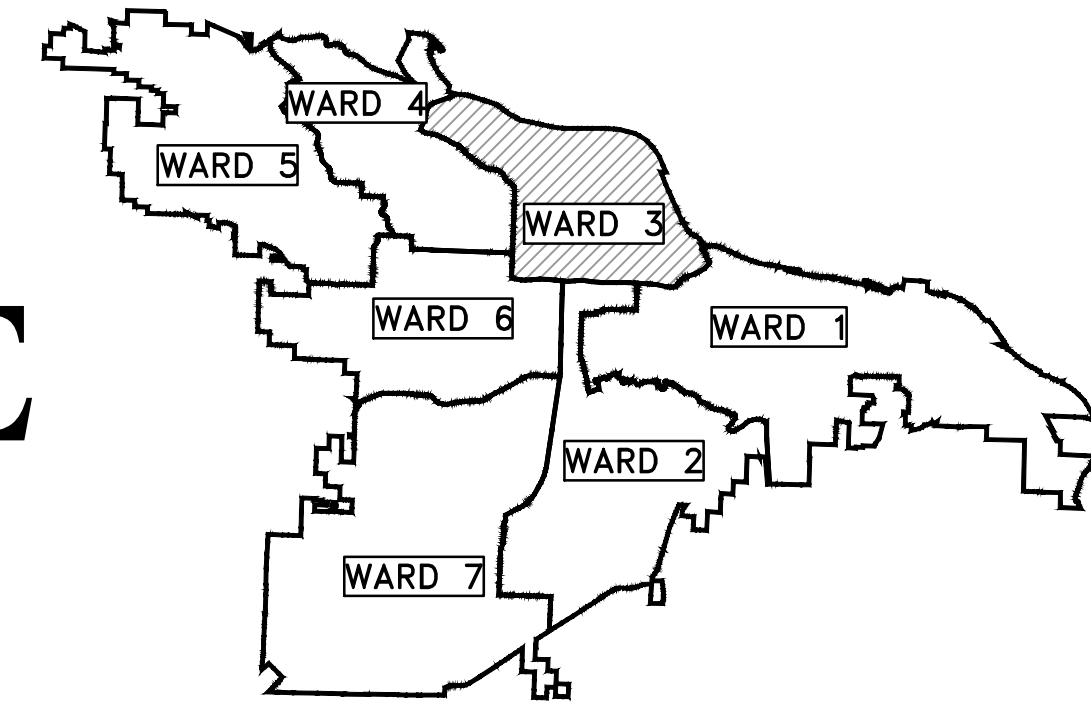
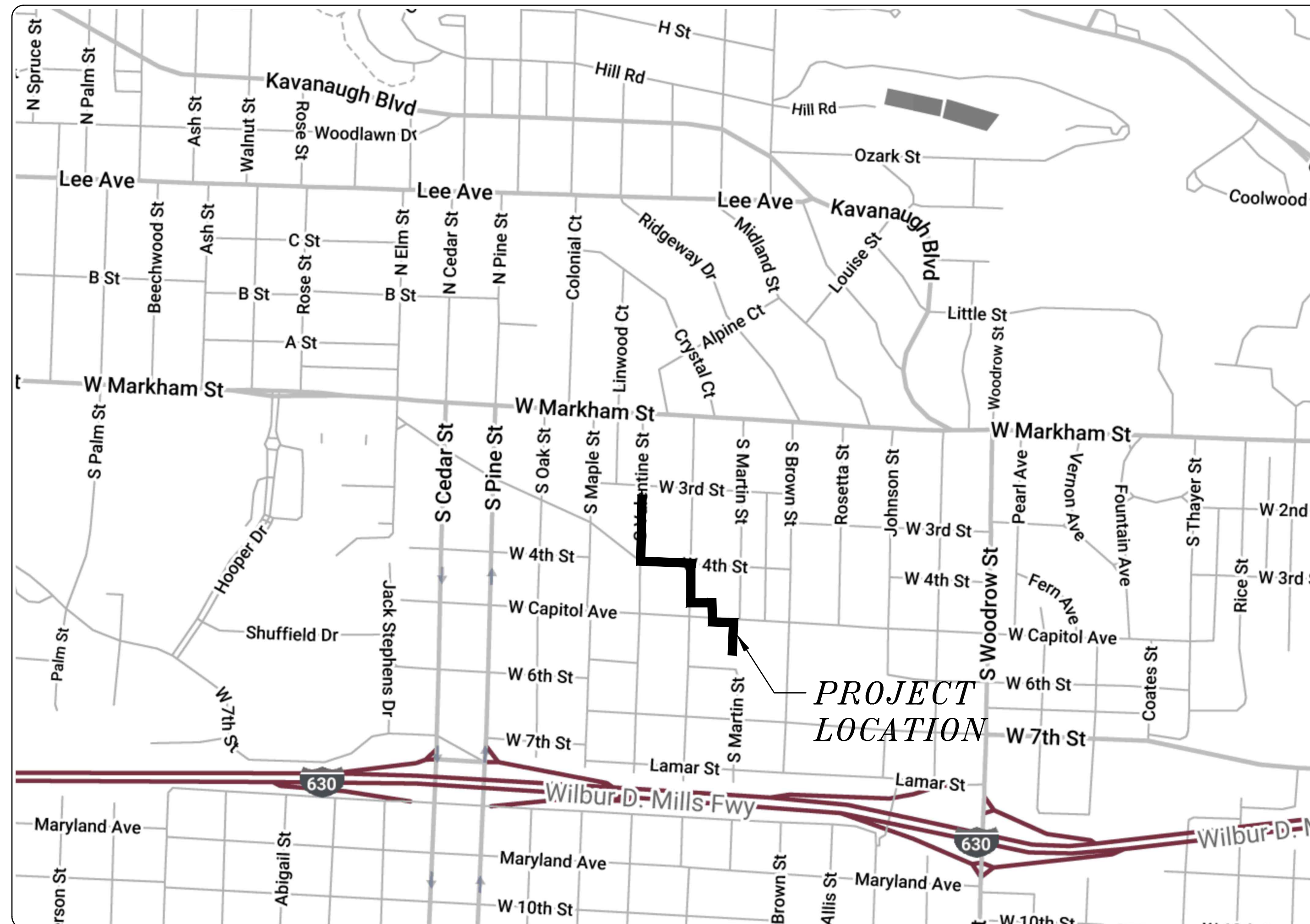
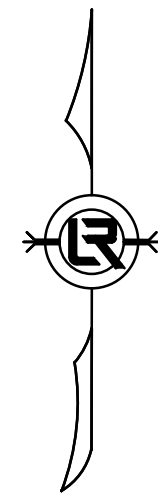


# CLR PROJECT 03-17-DR-107 WEST 4TH STREET DRAINAGE AND STREET IMPROVMENTS SOUTH VALENTINE STREET TO WEST CAPITOL AVENUE



PROJECT LOCATION - WARD 3



SHEET NO.	TITLE
C1	COVER SHEET
C2	QUANTITIES & DETAILS
C3	TYPICAL SECTIONS
C4	DRAINAGE LAYOUT

*SELECT DRAINAGE INFORMATION FROM STUDY	
SHEET NO.	TITLE
C5	BOX CULVERT PROFILE
C6	PROPOSED FLOODPLAIN MAP
C7	PROPOSED FLOODPLAIN CROSS SECTIONS
C8	PROPOSED FLOODPLAIN CROSS SECTIONS
C9	PROPOSED FLOODPLAIN CROSS SECTIONS
C10	PROPOSED FLOODPLAIN CROSS SECTIONS

\*NOT TO BE INCLUDED IN FINAL SUBMITTAL



**2019-2021  
BOND PROGRAM**

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



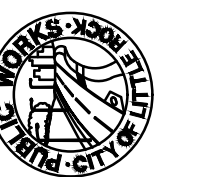
**Know what's below.  
Call before you dig.**



4701 Northshore Drive  
North Little Rock, AR 72118  
501-376-3633

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVMENTS  
COVER SHEET

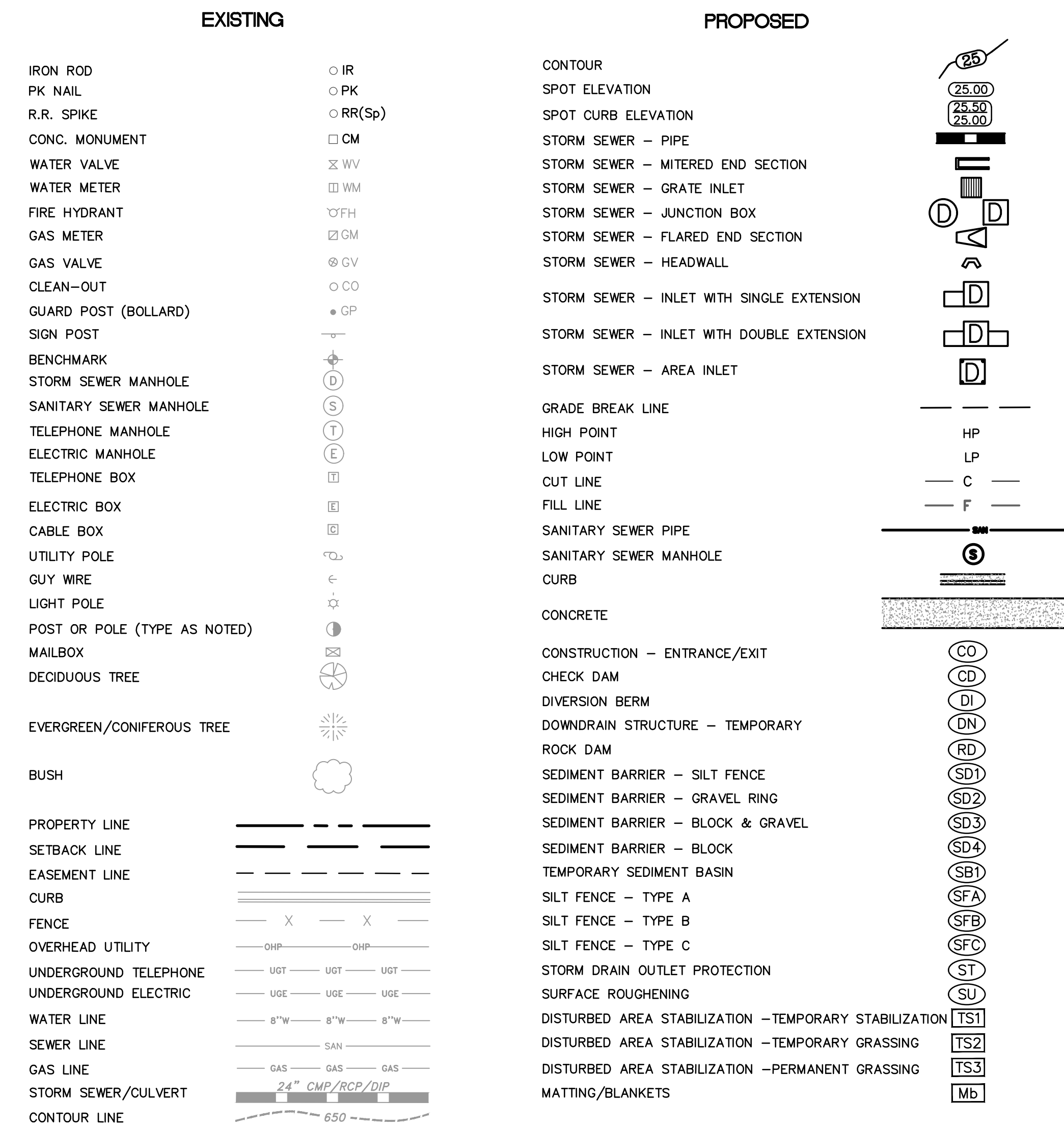


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CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



DRAWN BY MJM
DESIGNED RCC
CHECKED RCC
DATE 6-12-2019
SCALE N.T.S.
PROJECT NO. 03-15-DR-107
SHEET NO. C1

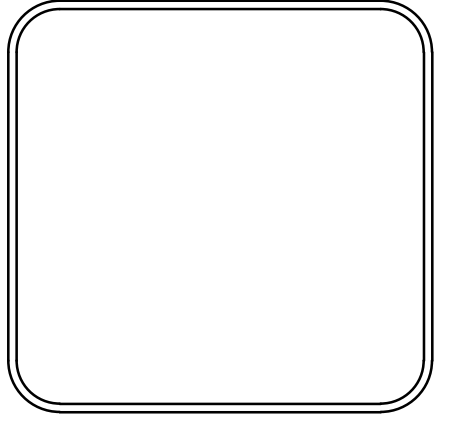
CLR PROJECT# 03-17-DR-107			
WEST 4TH STREET DRAINAGE AND STREET IMPROVEMENTS			
June 12, 2019			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	11,673
3.06	BORROW MATERIAL	CY	3,913
3.40	TOPSOIL	CY	172
4.01	AGGREGATE BASE COURSE	TON	797
6.01	ACHM SURFACE COURSE	TON	322
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	SF	1,666
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	1,857
9.04	CONCRETE SIDEWALK (4" THICK)	SF	4,327
10.04	CURB INLET - 4' BOX	EA	10
10.10	WING 6' EXTENSION	EA	12
10.14	WING 10' EXTENSION	EA	2
11.10	REINFORCED CONCRETE	CY	2,302
11.11	CONCRETE PIPE COLLAR	EA	1
13.18X	STORM DRAIN PIPE, 18" CROSS DRAIN	LF	51
13.24X	STORM DRAIN PIPE, 24" CROSS DRAIN	LF	54
13.72A	STORM DRAIN PIPE, ARCH 84"x60" RCP	LF	13
13.63	CONCRETE PLUG ON EXISTING STORM DRAIN	EA	2
14.01	SOLID SODDING, BERMUDA	SY	1,545
16.01	MAINTENANCE OF TRAFFIC	LS	1
17.01	PAVEMENT REPAIRS	SY	801
19.01	FINAL CLEANUP	LS	1
24.02	CHECK DAM (CD)	CY	400
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA	12
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	12
24.11	SILT FENCE - TYPE A (SFA)	LF	1,600
25.04	FENCE CHAIN LINK (4')	LF	571
25.16	FENCE WOOD (6')	LF	200.00
26.10	TRENCH & EXCAVATION SAFETY	LS	1.00
29.10	PROJECT INFORMATION KIOSK (PW-18)	LS	1



REVISIONS	DATE

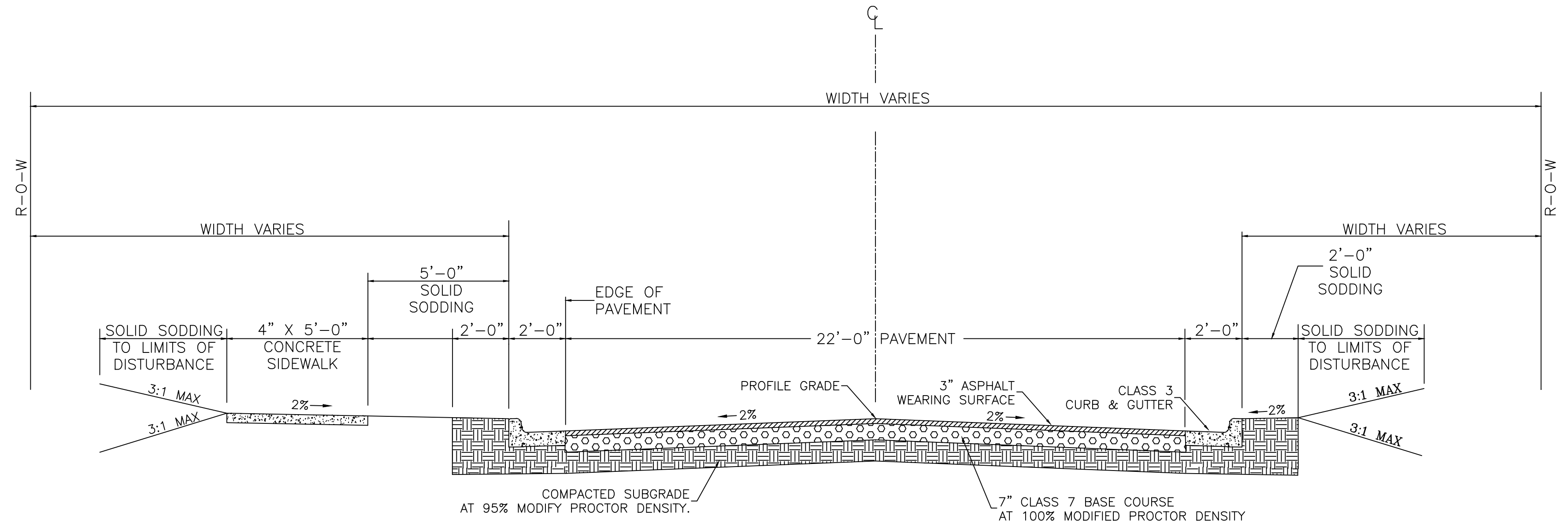
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 QUANTITIES & DETAILS

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

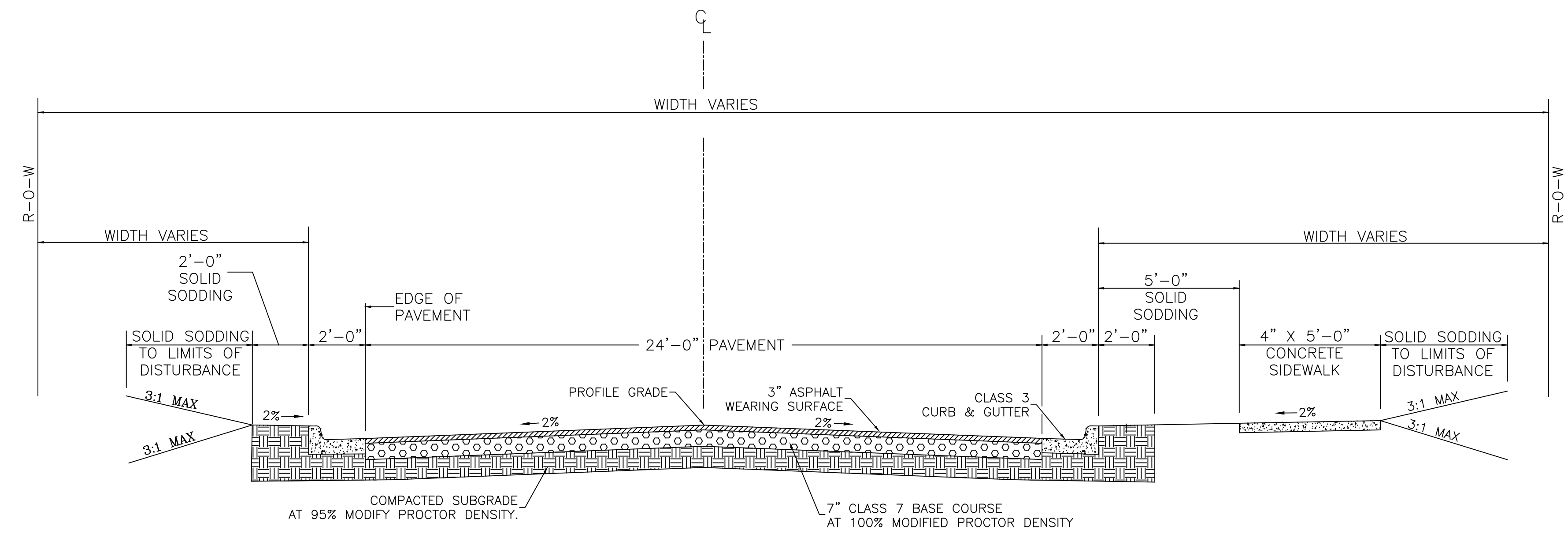


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DESIGNED	RCC
CHECKED	RCC
DATE	6-12-2019
SCALE	N.T.S
PROJECT NO.	03-15-DR-107
SHEET NO.	C2

REVISIONS	DATE



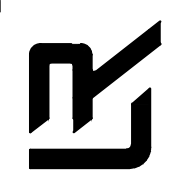
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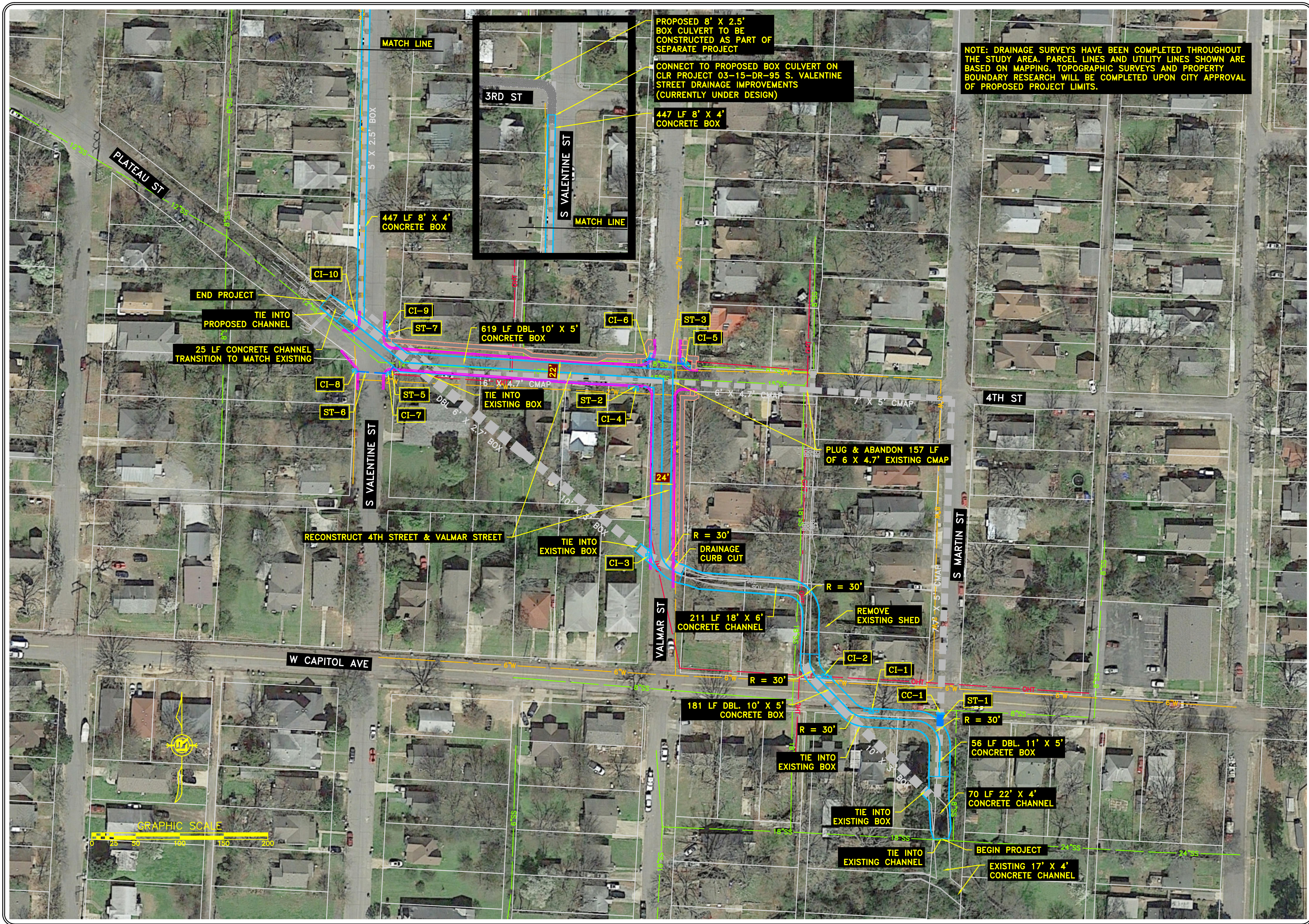
TYPICAL SECTION  
VALMAR ST.

CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS  
TYPICAL SECTIONS

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



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RCC  
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RCC  
DATE  
6-12-2019  
SCALE  
N.T.S  
PROJECT NO.  
03-15-DR-107  
SHEET NO.  
C3



PROPOSED 8' X 2.5' BOX CULVERT TO BE CONSTRUCTED AS PART OF SEPARATE PROJECT

CONNECT TO PROPOSED BOX CULVERT ON CLR PROJECT 03-15-DR-95 S. VALENTINE STREET DRAINAGE IMPROVEMENTS (CURRENTLY UNDER DESIGN)

447 LF 8' X 4' CONCRETE BOX

NOTE: DRAINAGE SURVEYS HAVE BEEN COMPLETED THROUGHOUT THE STUDY AREA. PARCEL LINES AND UTILITY LINES SHOWN ARE BASED ON MAPPING. TOPOGRAPHIC SURVEYS AND PROPERTY BOUNDARY RESEARCH WILL BE COMPLETED UPON CITY APPROVAL OF PROPOSED PROJECT LIMITS.

25 LF CONCRETE CHANNEL TRANSITION TO MATCH EXISTING

619 LF DBL. 10' X 5' CONCRETE BOX

PLUG & ABANDON 157 LF OF 6 X 4.7' EXISTING CMAP

211 LF 18' X 6' CONCRETE CHANNEL

56 LF DBL. 11' X 5' CONCRETE BOX

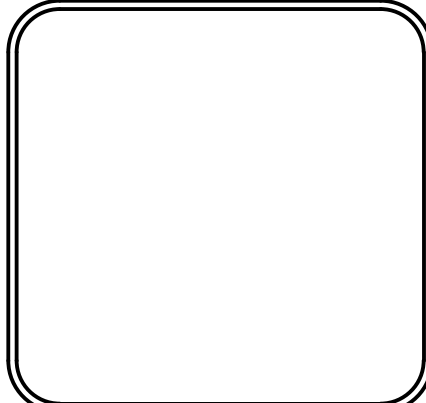
70 LF 22' X 4' CONCRETE CHANNEL

EXISTING 17' X 4' CONCRETE CHANNEL

REVISIONS	DATE

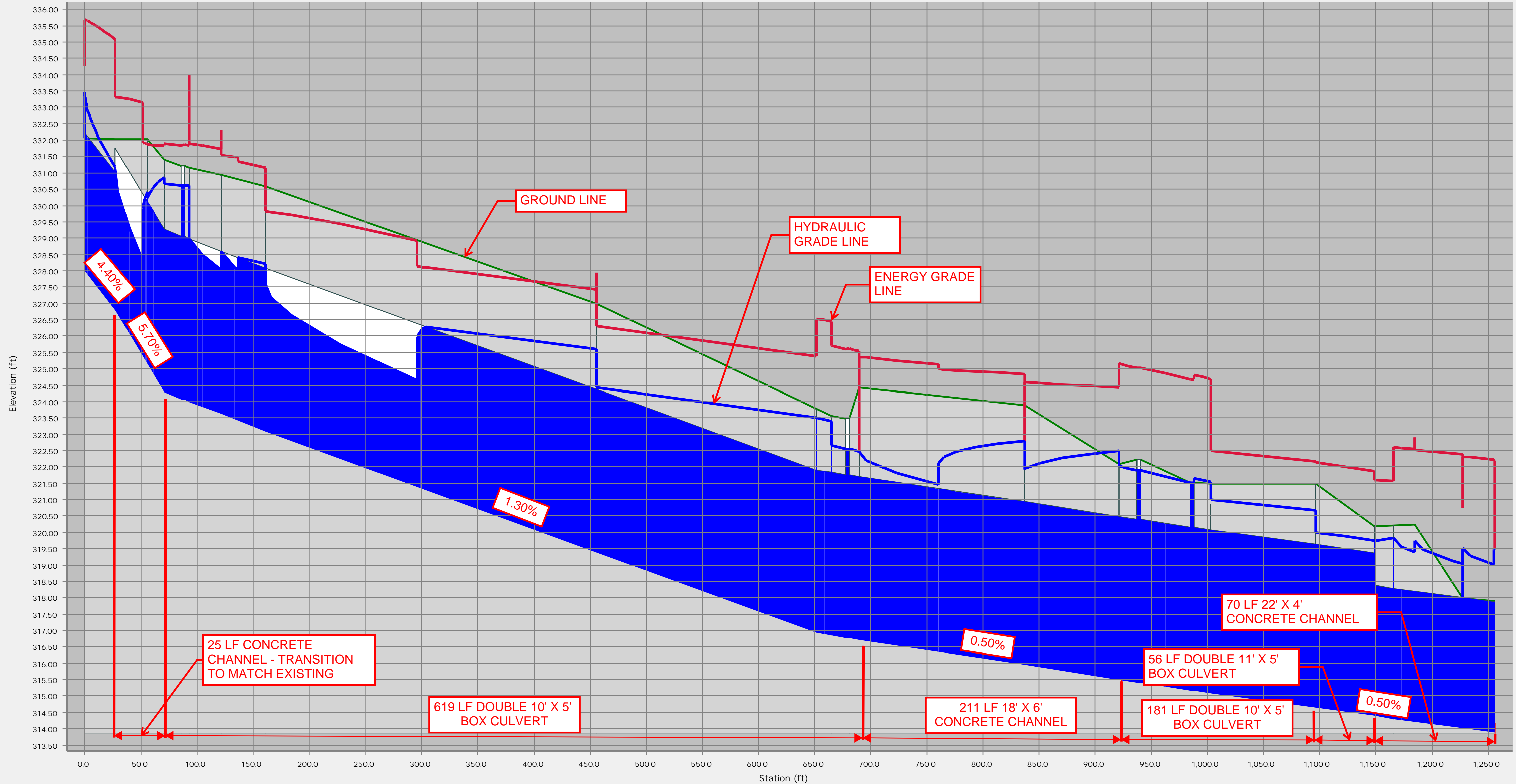
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 DRAINAGE LAYOUT

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
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 LITTLE ROCK, ARKANSAS 72201

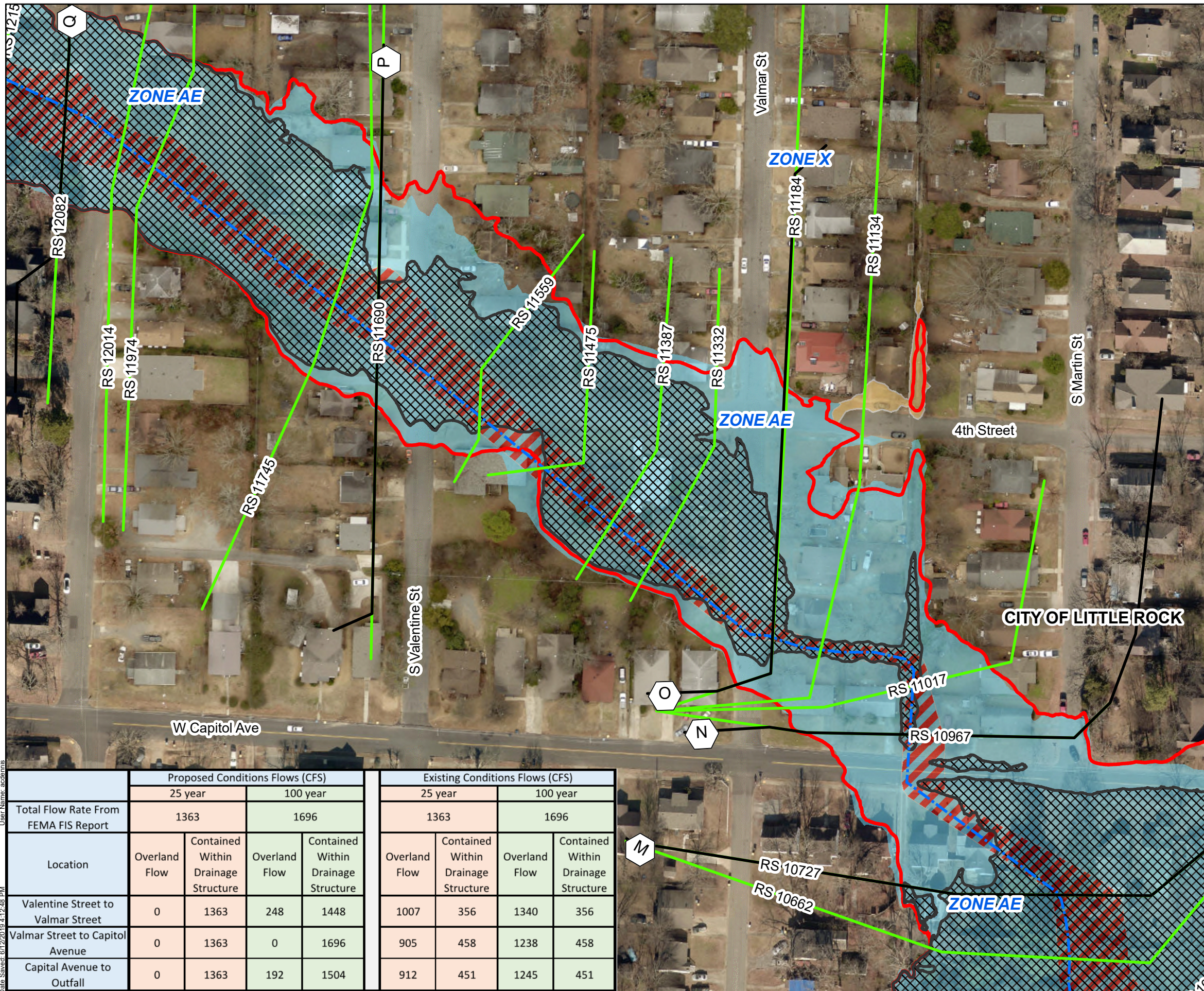
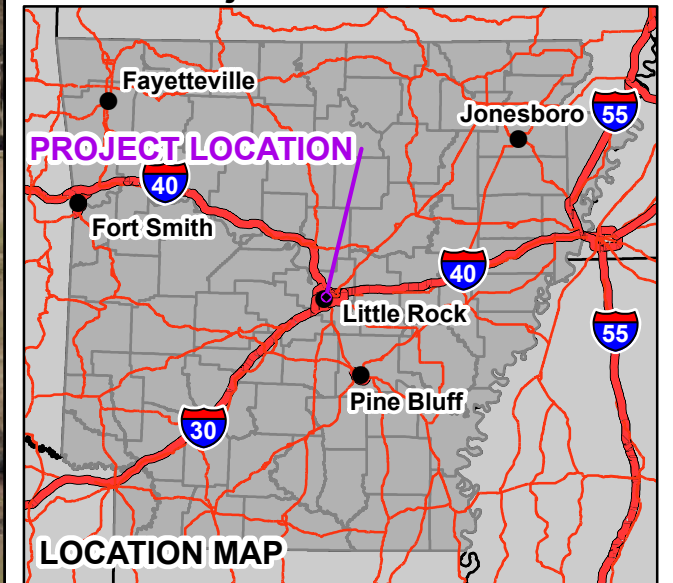


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 MJM  
 DESIGNED  
 RCC  
 CHECKED  
 RCC  
 DATE  
 6-12-2019  
 SCALE  
 1"=50'  
 PROJECT NO.  
 03-15-DR-107  
 SHEET NO.  
**C4**

Proposed Improvements - Drainage Profile - Base



**Proposed Floodplain Map  
Little Rock 4th Street  
Drainage Improvements  
CLR Project No. 03-17-DR-107**

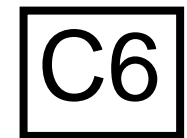


- FIS Lettered Cross Sections
- New Model Cross Sections
- NFHL Profile Baseline
- Proposed Special Flood Hazard Area
- Corrected Effective (Existing) SFHA
- Effective Special Flood Hazard Area (Zone AE)\*
- Effective 500-yr Zone X\*
- Effective Regulatory Floodway\*

\* Data taken from National Flood Hazard Layer (NFHL) DFIRM data for Pulaski County, AR, dated June 8, 2018. Panel maps have an effective date of June 7, 2019.



0 100 200 Feet  
NAD83 State Plane Arkansas South  
Vertical Datum NAVD 88

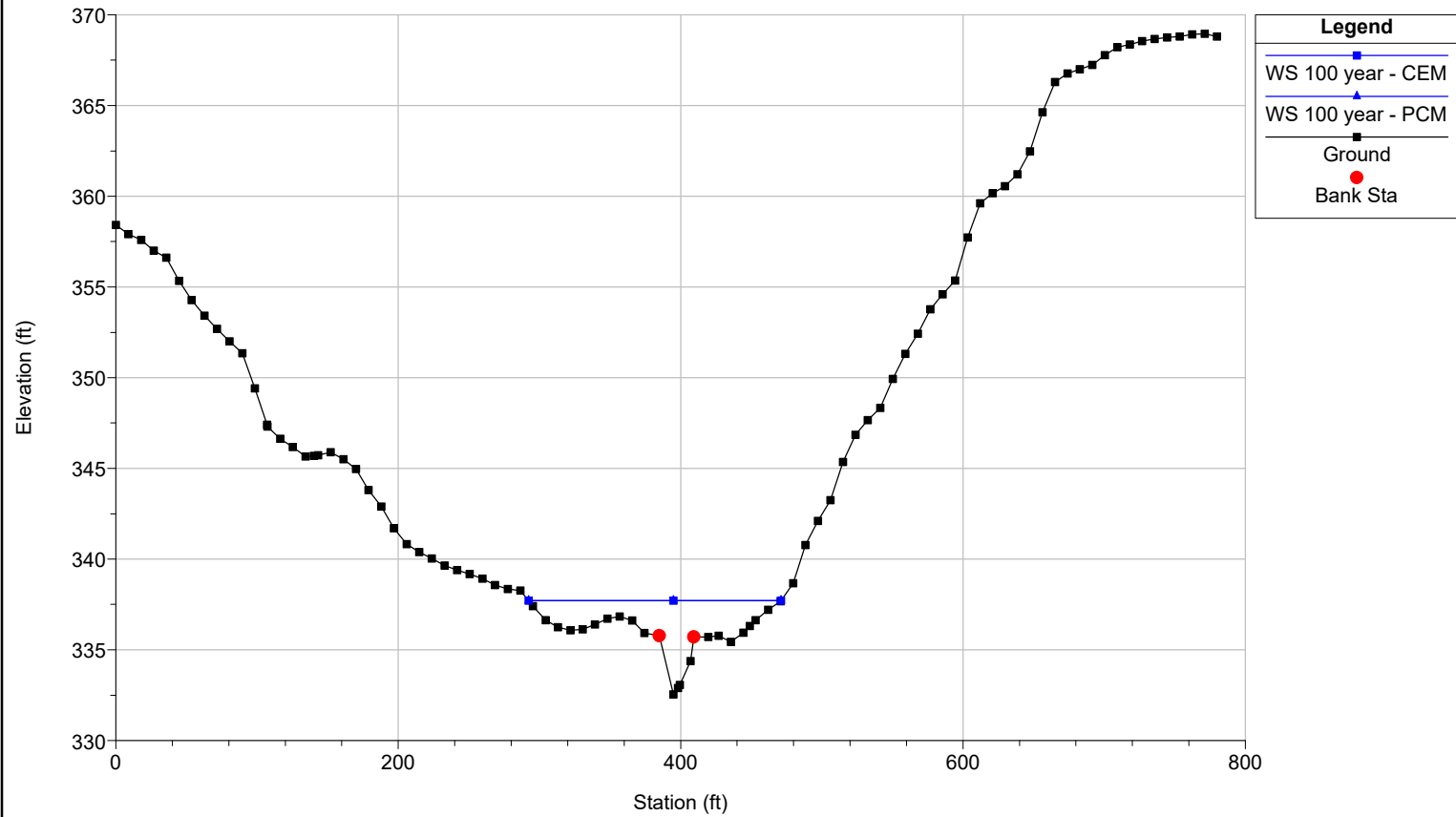


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Date Saved: 6/12/2019 4:12:48 PM  
User Name: acdennis

	Proposed Conditions Flows (CFS)				Existing Conditions Flows (CFS)			
	25 year		100 year		25 year		100 year	
Total Flow Rate From FEMA FIS Report	1363		1696		1363		1696	
Location	Overland Flow	Contained Within Drainage Structure	Overland Flow	Contained Within Drainage Structure	Overland Flow	Contained Within Drainage Structure	Overland Flow	Contained Within Drainage Structure
Valentine Street to Valmar Street	0	1363	248	1448	1007	356	1340	356
Valmar Street to Capitol Avenue	0	1363	0	1696	905	458	1238	458
Capitol Avenue to Outfall	0	1363	192	1504	912	451	1245	451

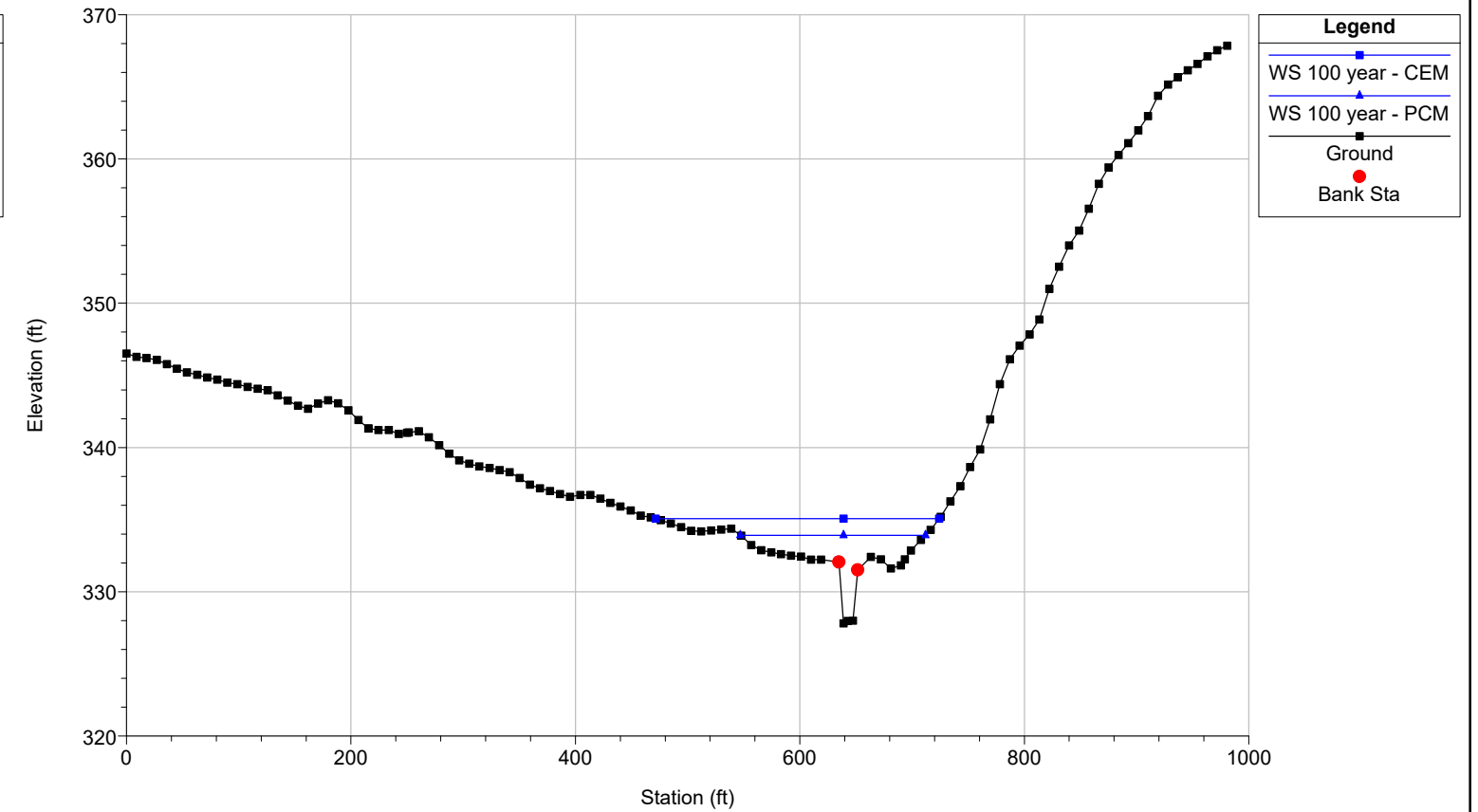
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RS = 11974 RM 2.268, Copy of SCD-S6 (XS 1 of 4 for S7)



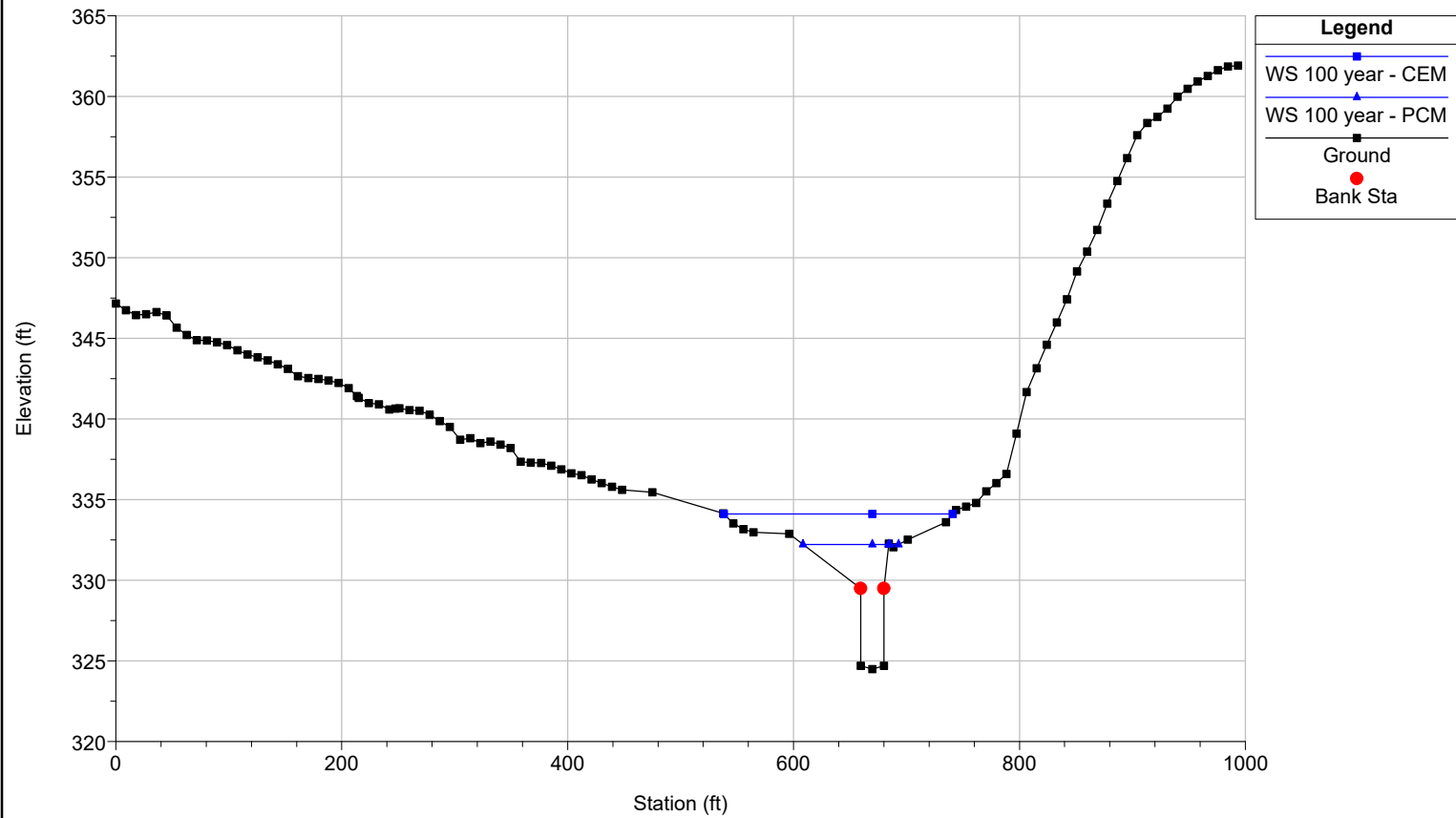
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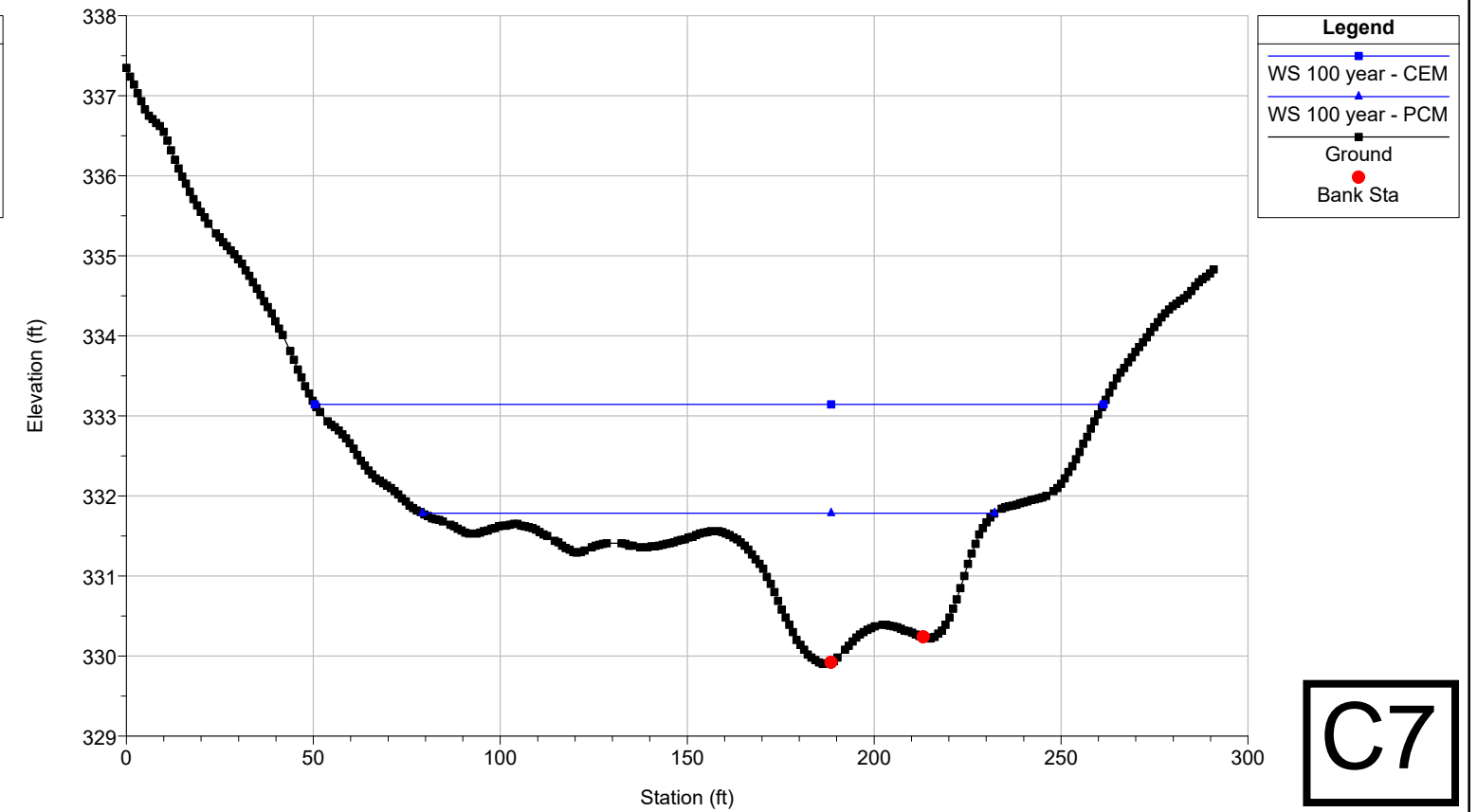
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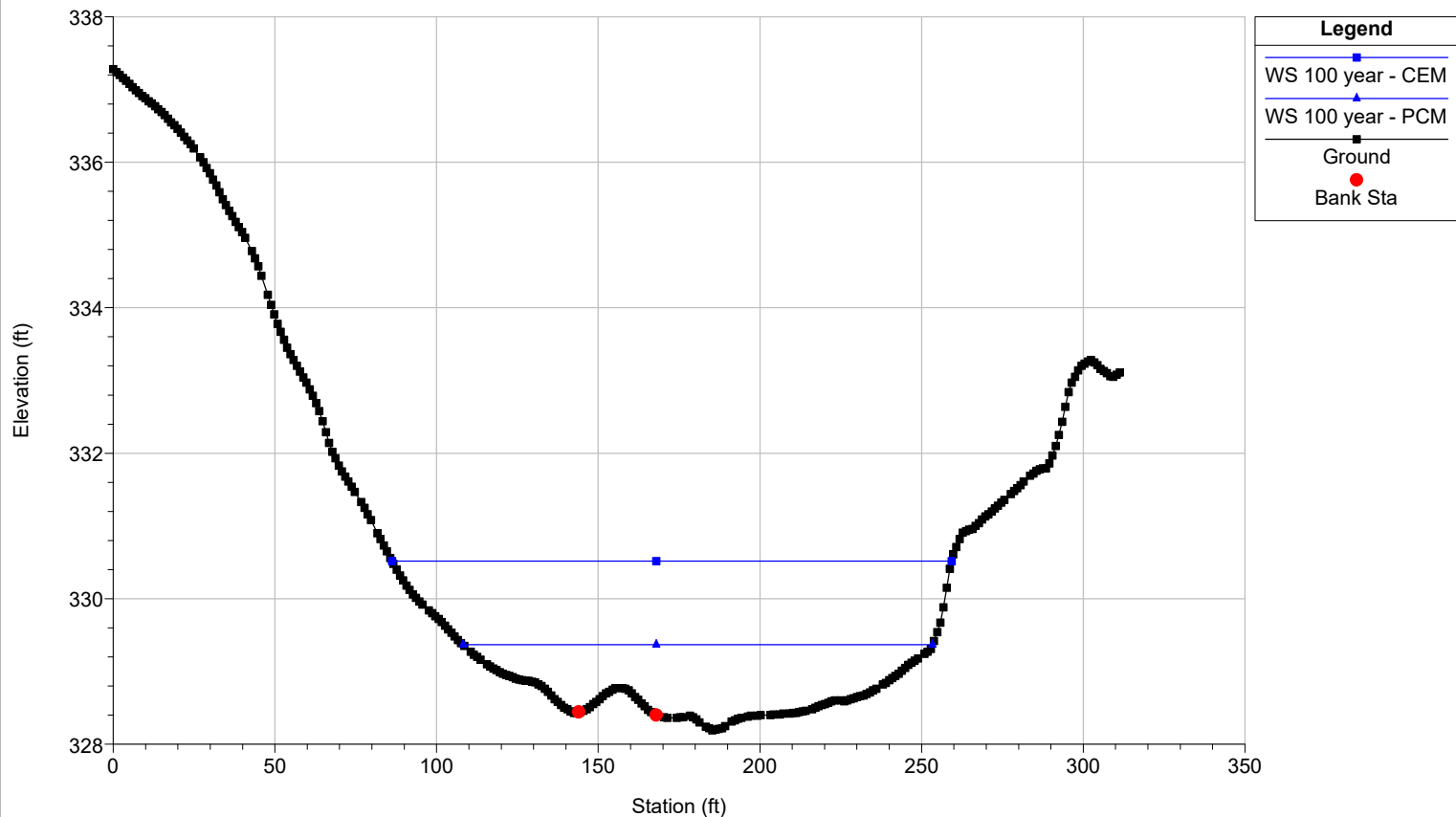


StateCapitolDrain\_FPM\_20190613 Plan: 1) CEM 6/7/2019 2) PCM 6/12/2019

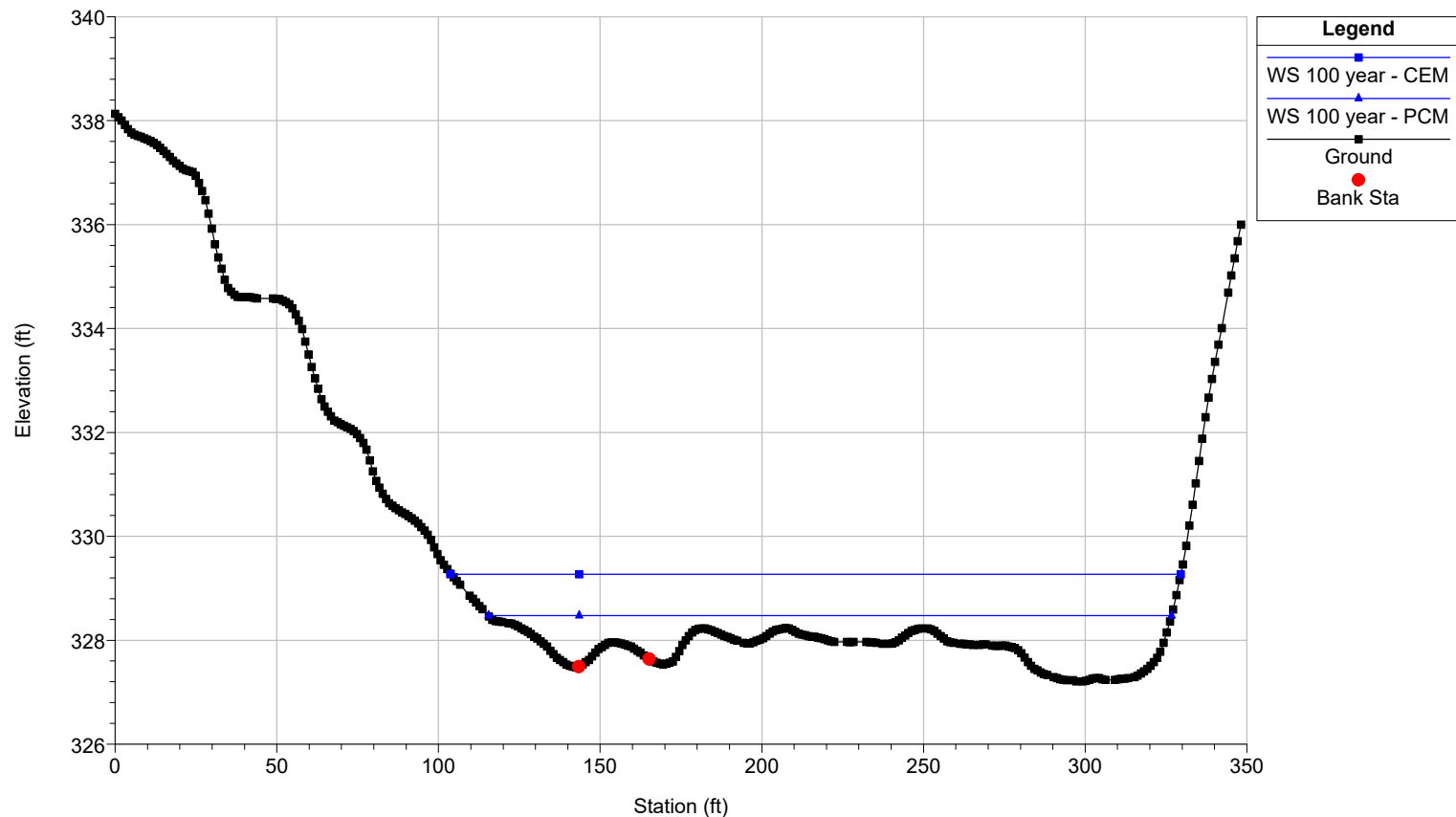
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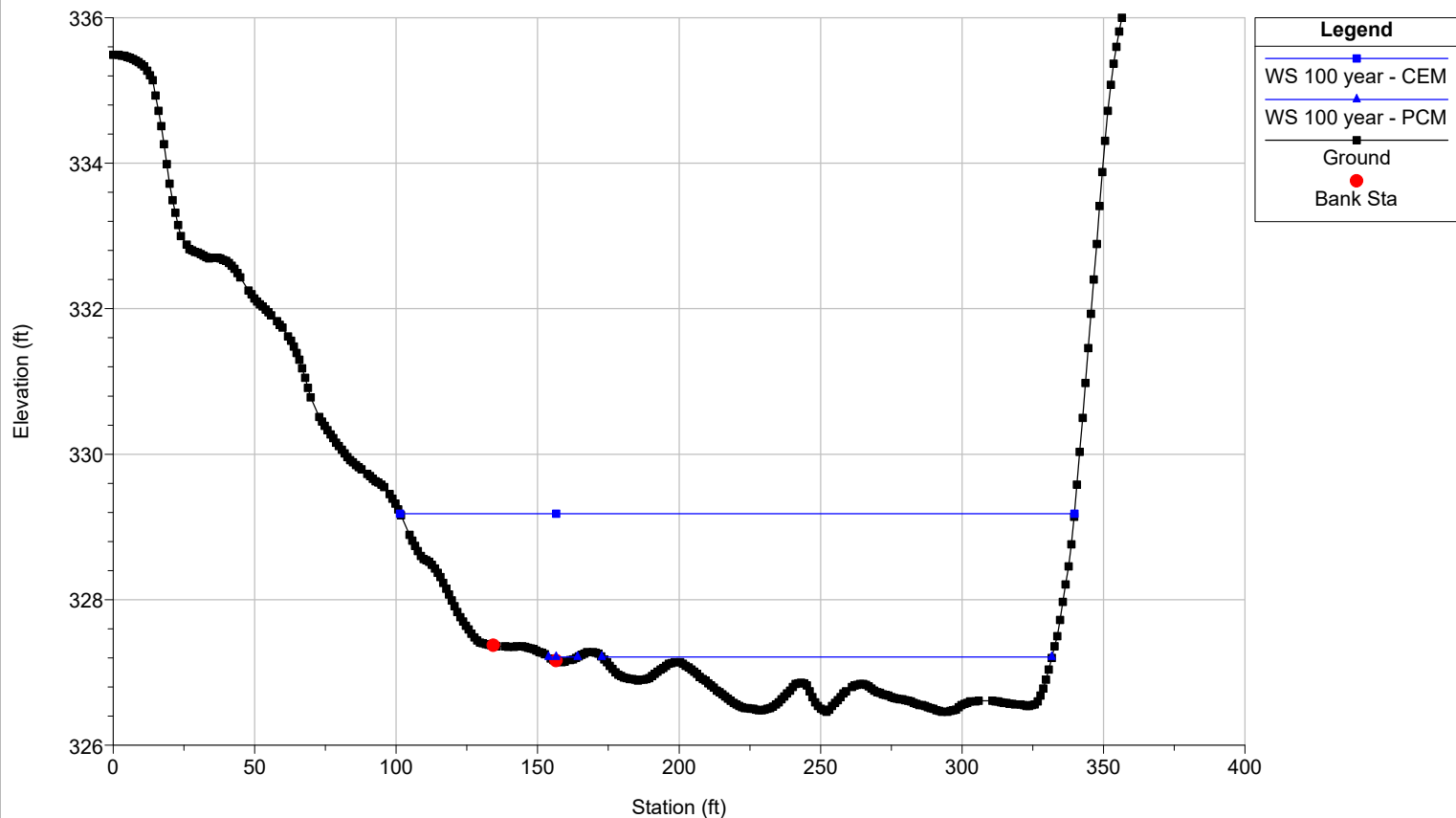
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RS = 11475



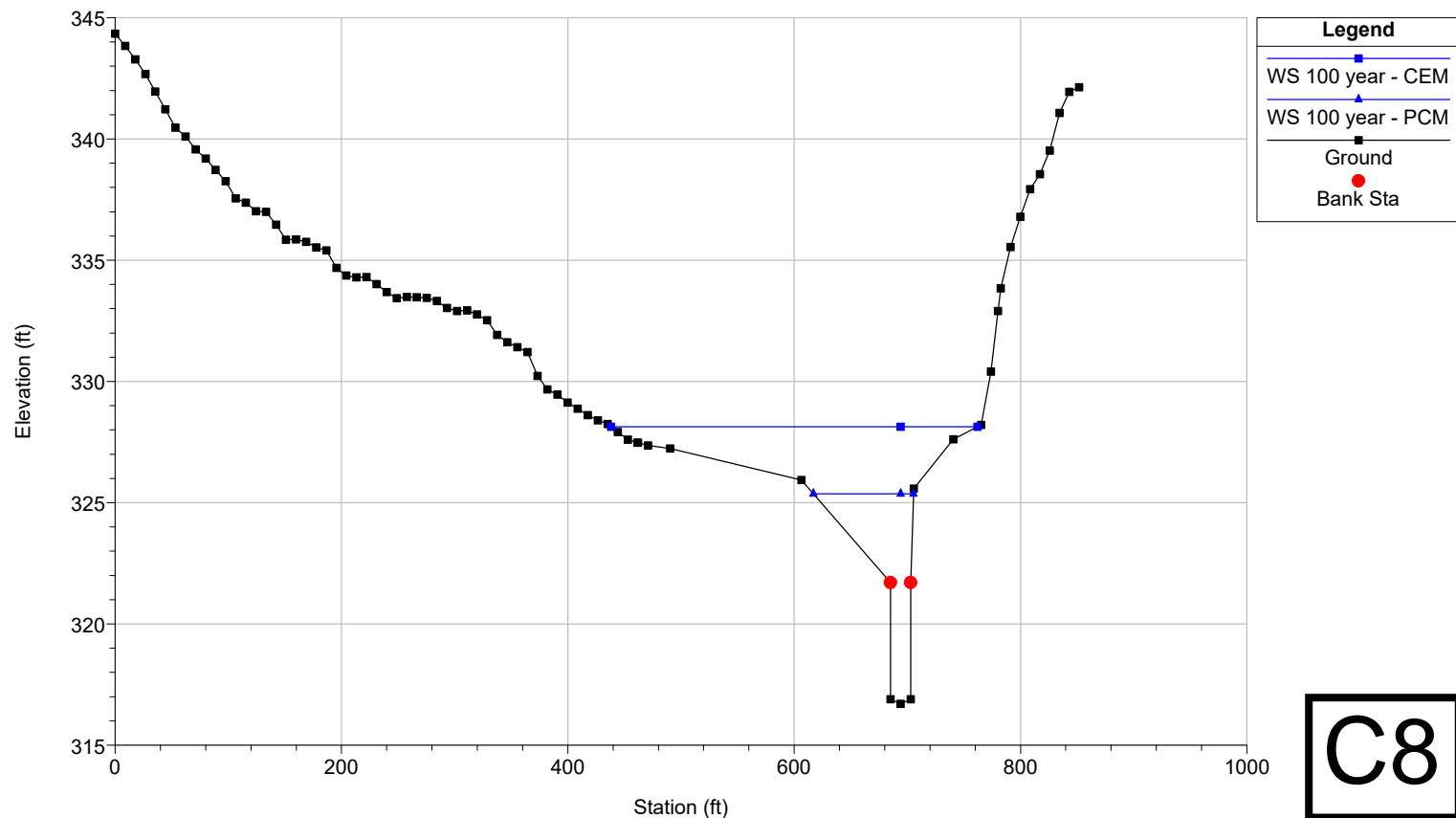
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RS = 11387



StateCapitolDrain\_FPM\_20190613 Plan: 1) CEM 6/7/2019 2) PCM 6/12/2019  
RS = 11332

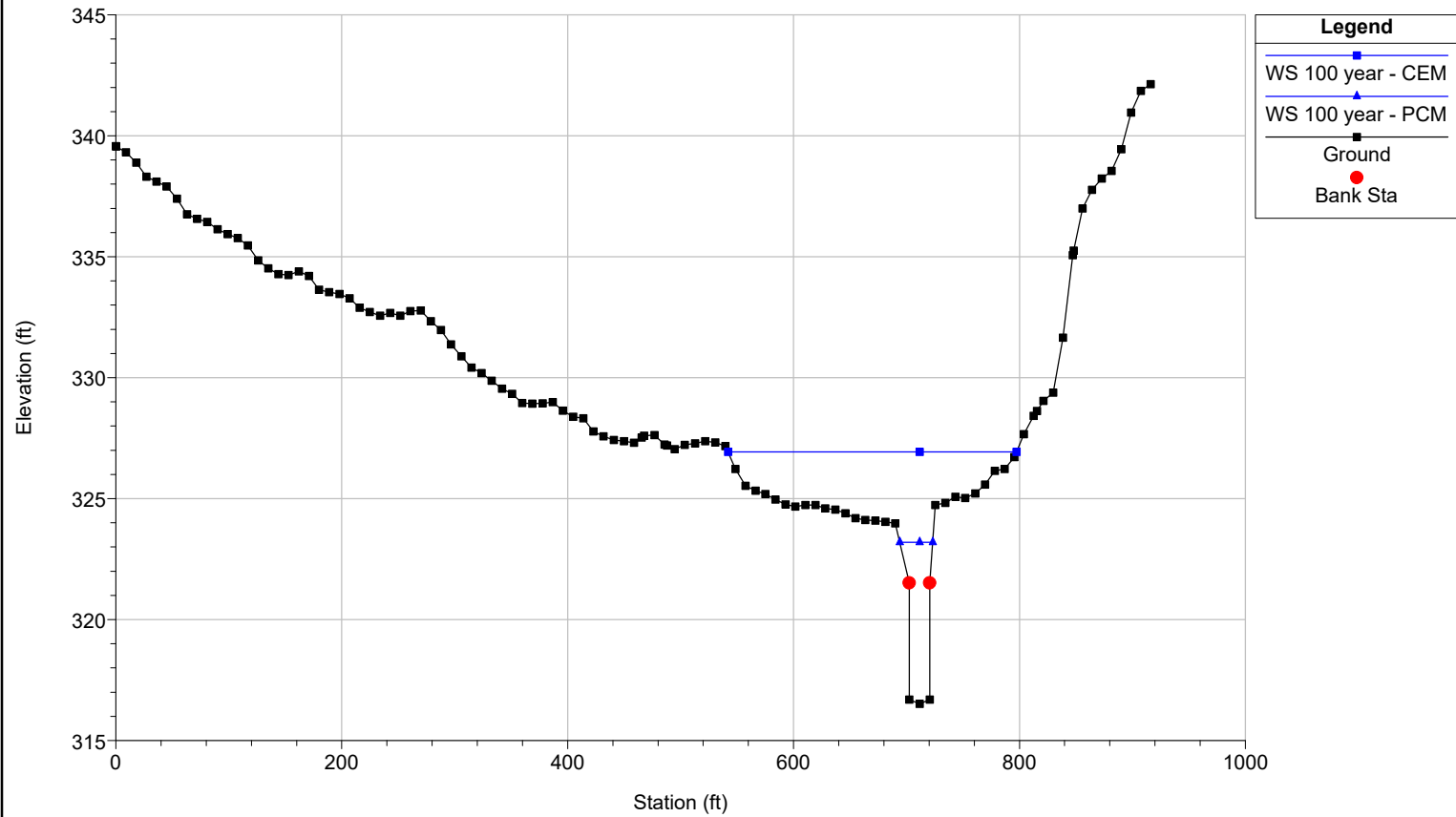


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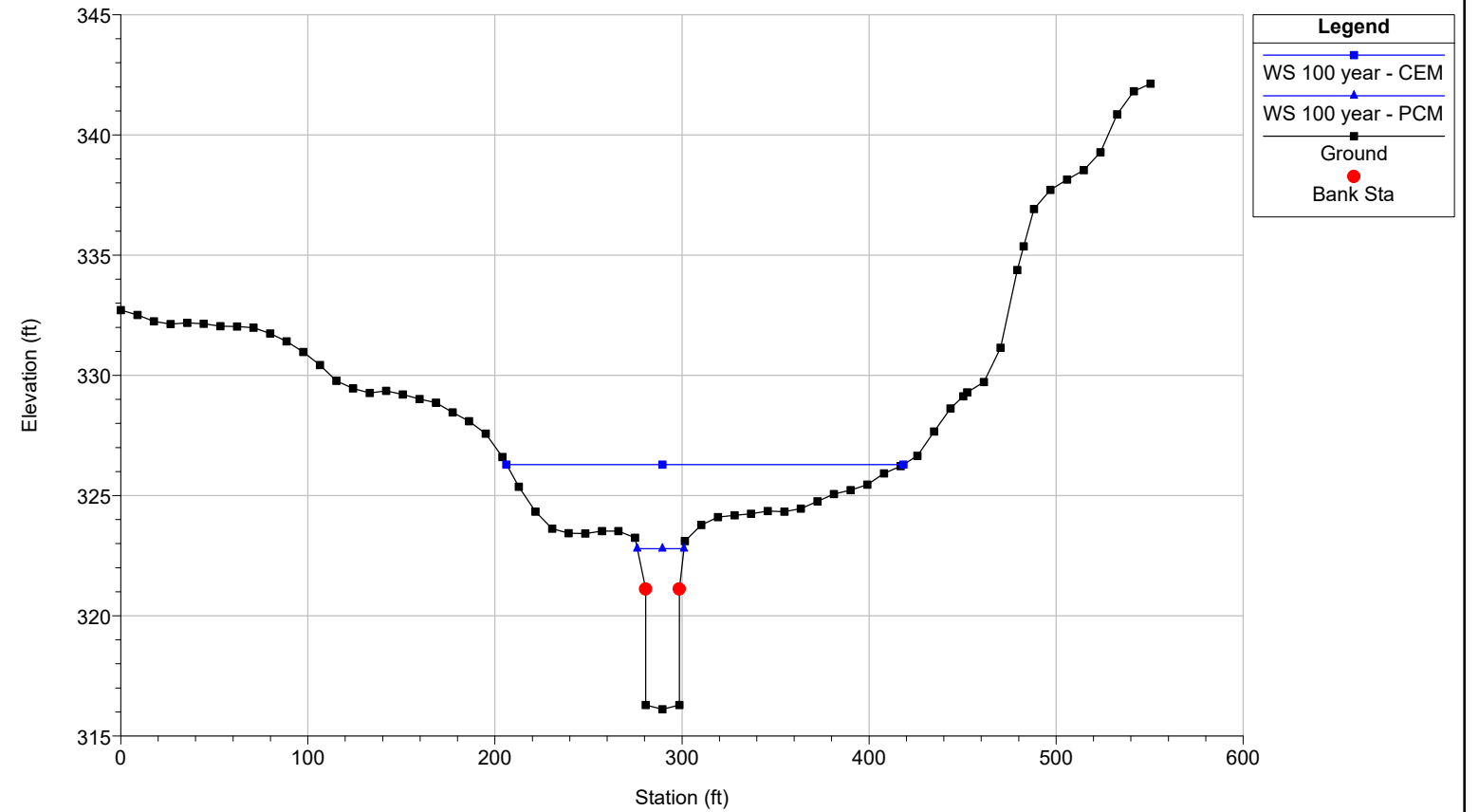




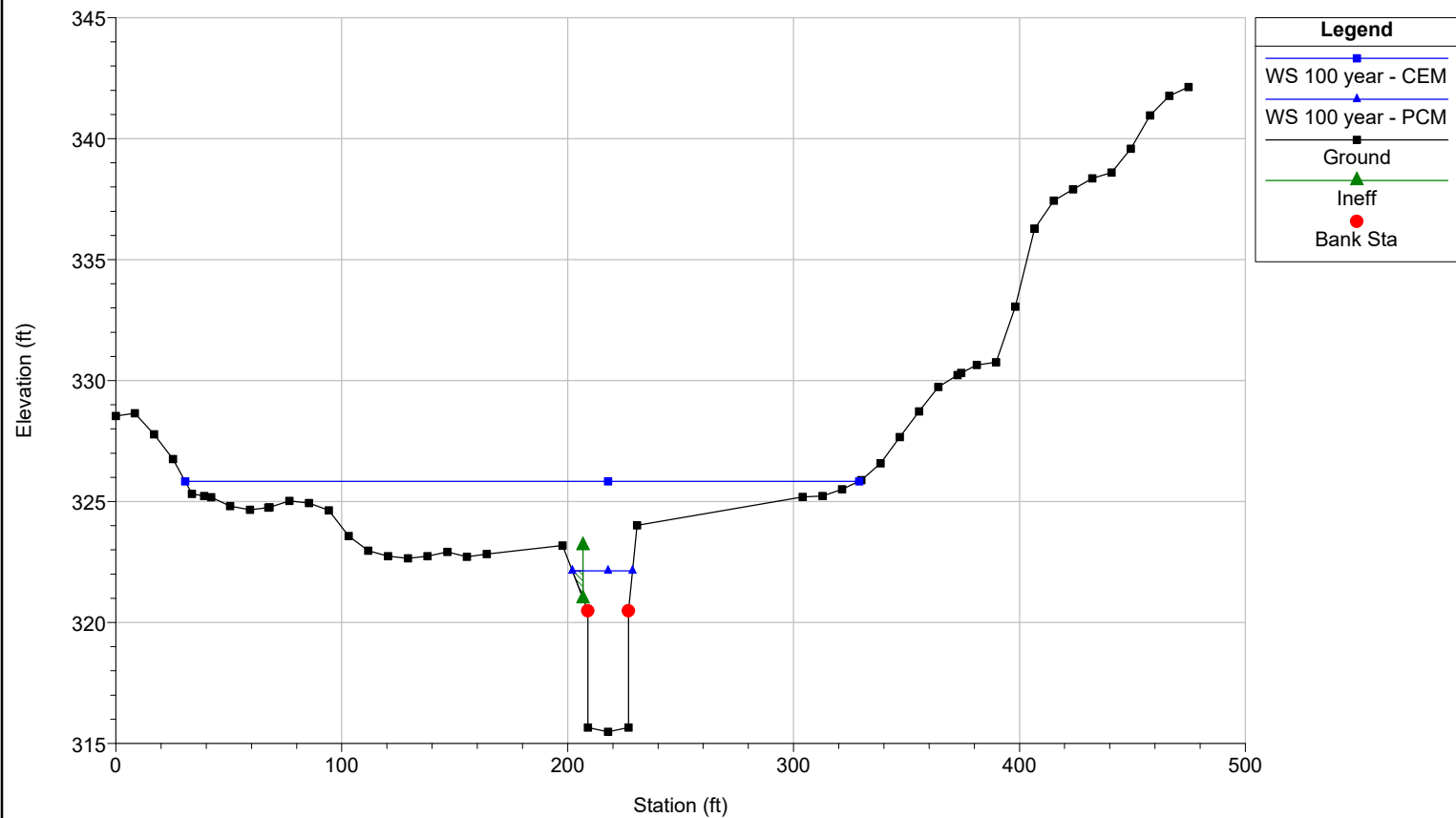
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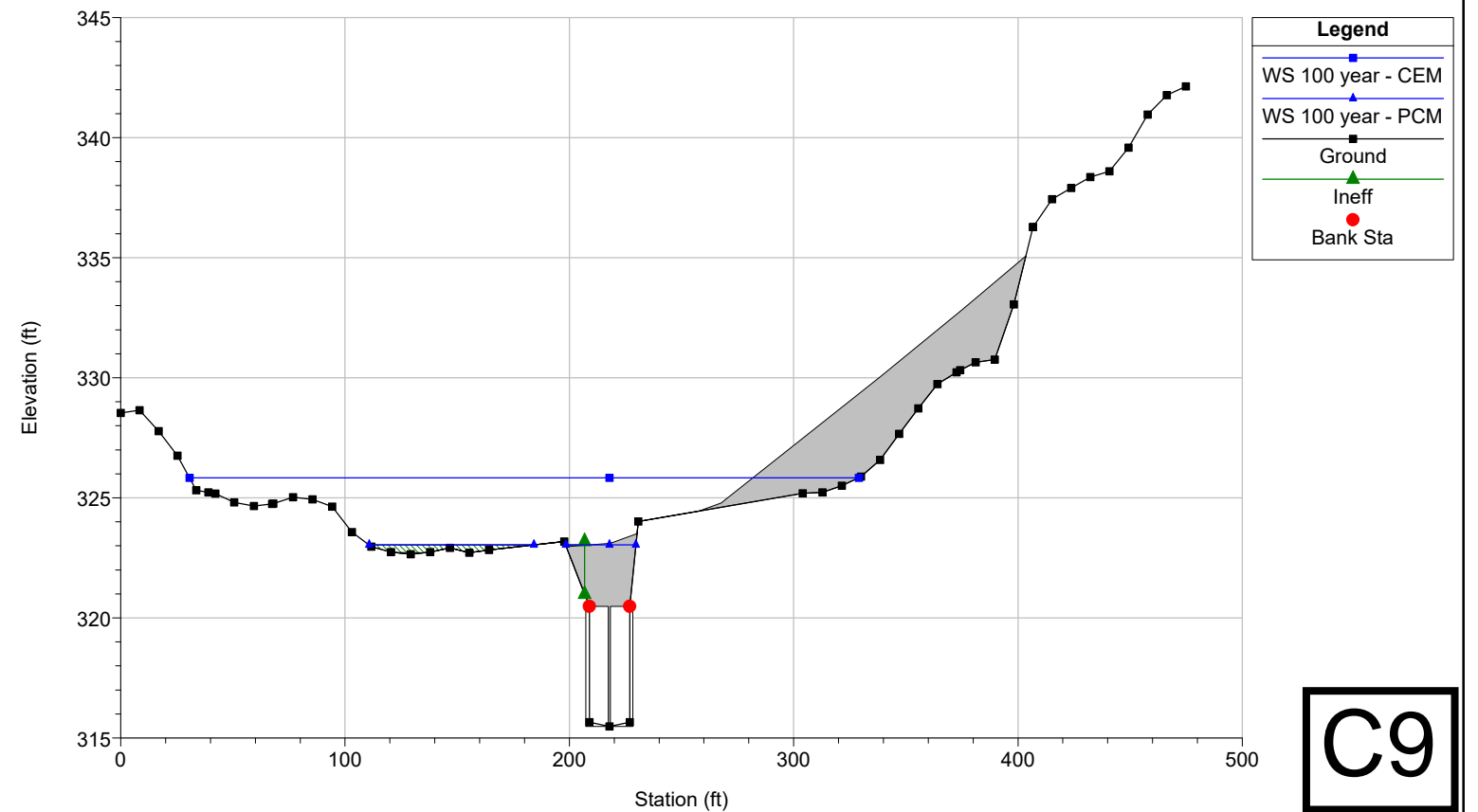
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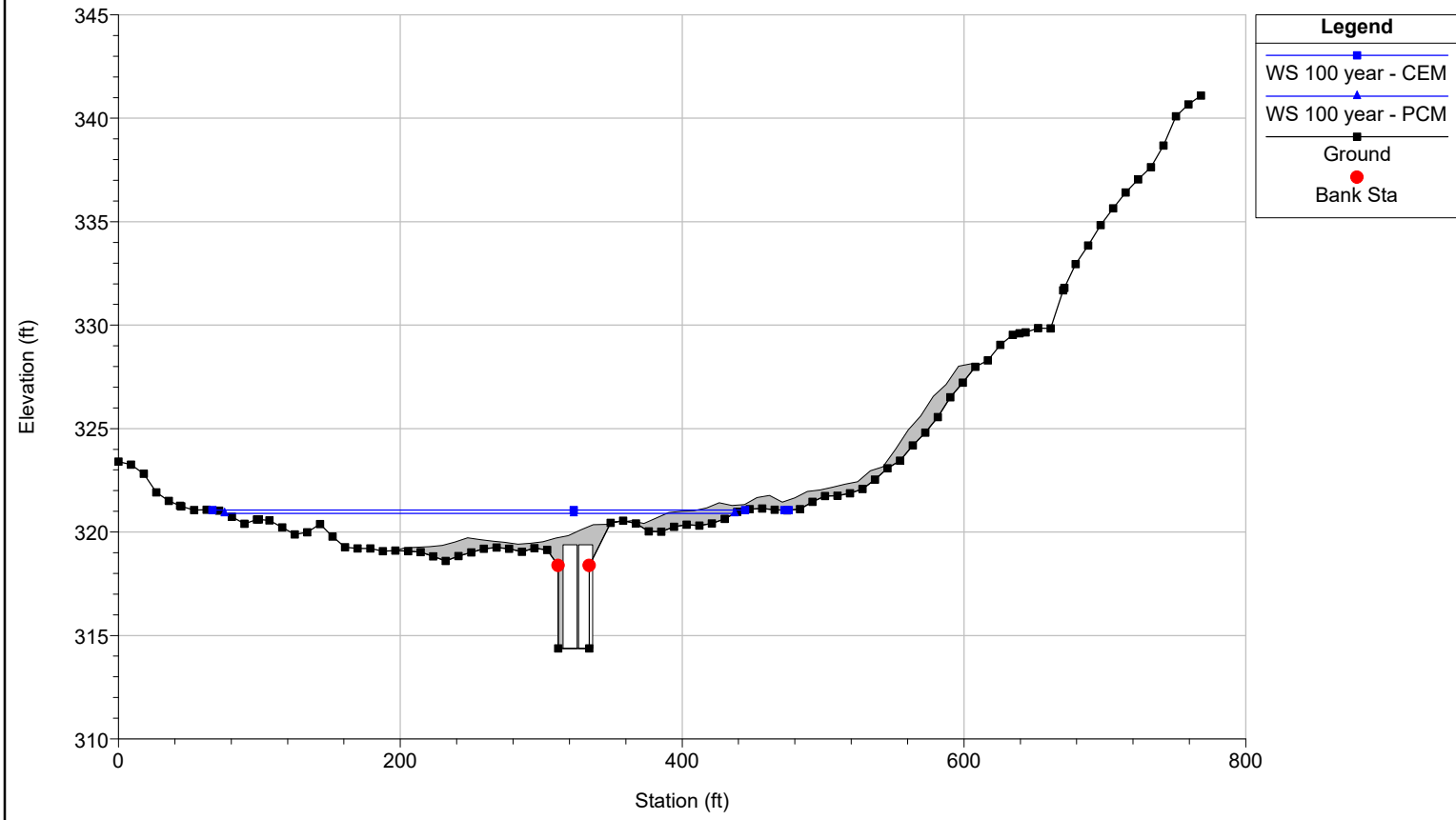
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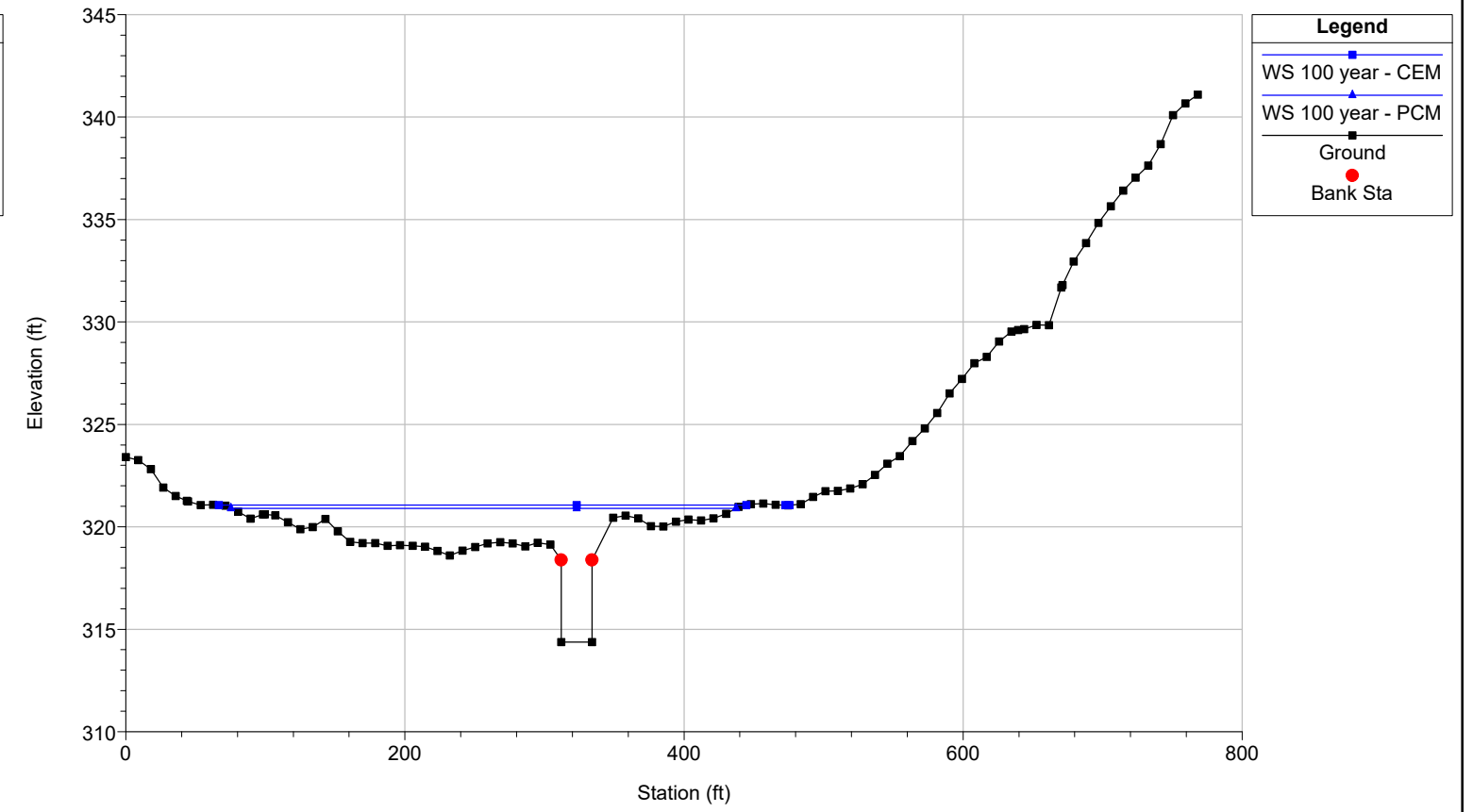
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StateCapitolDrain\_FPM\_20190613 Plan: 1) CEM 6/7/2019 2) PCM 6/12/2019  
RS = 10932 Culv RM 2.07, W Capitol Avenue w/ downstream culvert (SCD-S4/3)



StateCapitolDrain\_FPM\_20190613 Plan: 1) CEM 6/7/2019 2) PCM 6/12/2019  
RS = 10727 RM 2.032, SCD-S3 (XS 2 of 4 for S4/3)



C10