

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 COVER SHEET

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



DRAWN BY ATV
DESIGNED KDV
CHECKED VJW
DATE 10-27-2017
SCALE N/A
PROJECT NO. CLR #16-3-ST-64
SHEET NO. C0

# CLR PROJECT #16-3-ST-64

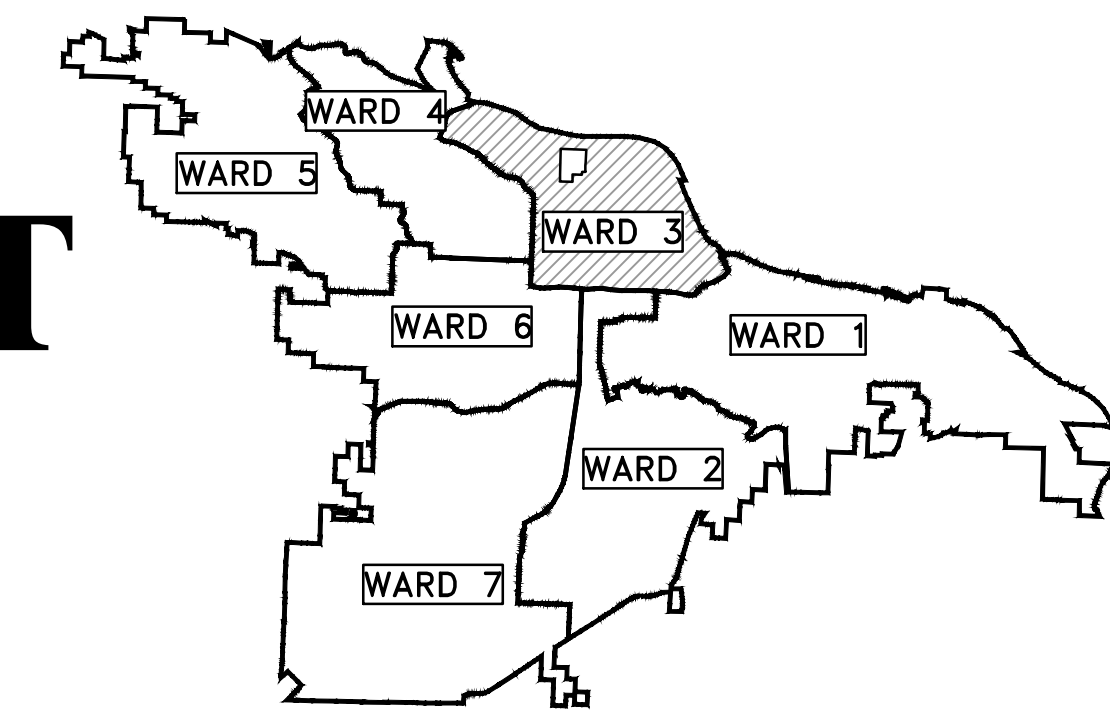
## KAVANAUGH BLVD DRAINAGE PROJECT

**JACKSON STREET - KAVANAUGH TO F STREET**

**G STREET - JACKSON TO MONROE**

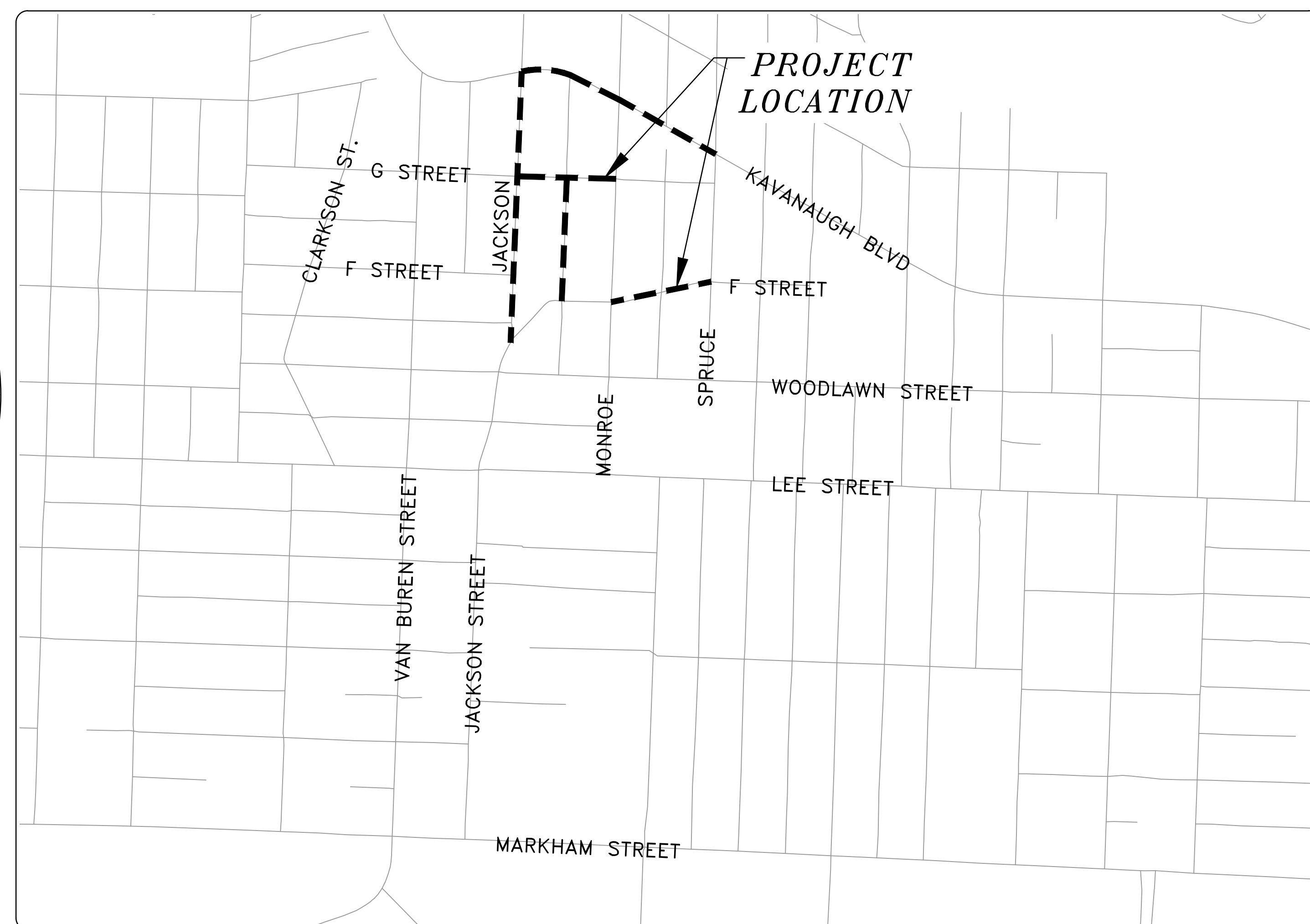
**F STREET - MONROE TO SPRUCE**

**ALLEY BETWEEN JACKSON AND MONROE - G STREET TO F STREET**

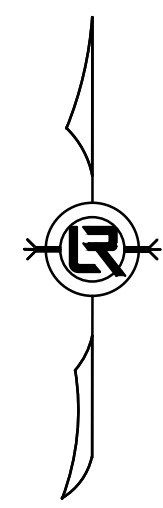
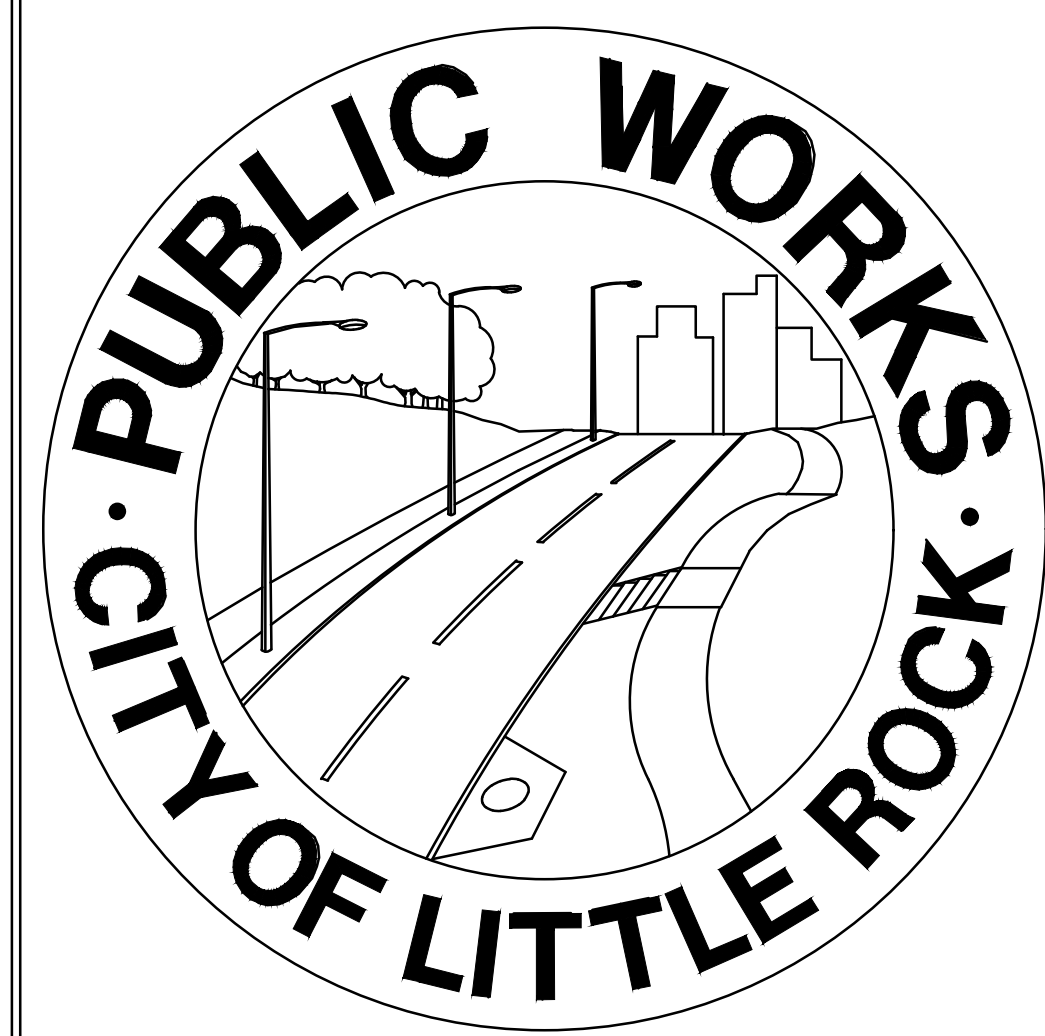


PROJECT LOCATION - WARD 3

SHEET NO.	TITLE
C0	COVER SHEET
C1	LEGEND & QUANTITIES
C2	TYPICAL SECTIONS
C3	OVERALL SITE PLAN
C4	PLAN AND PROFILE - JACKSON STREET
C5	PLAN AND PROFILE - G STREET
C6	PLAN AND PROFILE - ALLEY BETWEEN G & F
C7	PLAN AND PROFILE - F STREET
C8	PLAN AND PROFILE - JACKSON @ F STREET
C9	PLAN - KAVANAUGH BLVD PVMNT IMPROVEMENT
C10	CROSS SECTIONS - G STREET
C11	CROSS SECTIONS - G STREET
C12	CROSS SECTIONS - F STREET
C13	CROSS SECTIONS - F STREET
C14	CROSS SECTIONS - ALLEY
C15	MAINTENANCE OF TRAFFIC PLAN
C16	CENTERLINE FIELD TIES - OVERALL
C17	EROSION CONTROL PLAN
C18	MISCELLANEOUS DETAILS
C19	DRIVEWAYS



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



**GNE** Designing our client's success

**GarNat Engineering, LLC**

P.O. Box 116 (72018)      Ph (501) 408-4650  
 2909 Military Rd      Fx (888) 900-3068  
 Benton, AR 72015      garnatengineering@gmail.com

SUMMARY OF QUANTITIES

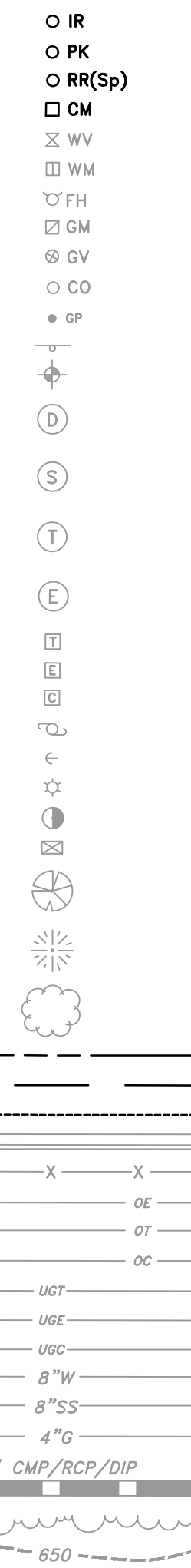
Item	Description	Unit	Quantity
2.01	Site Preparation	LS	1
3.01	Unclassified Excavation	CY	1375
3.40	Top Soil	CY	302
4.01	Aggregate Base Course	TON	946
5.01	Tack Coat	GAL	29
6.10	ACHM Surface Course (Type 2)	TON	384
7.06	Concrete Driveway and Apron (6" Thick)	SF	1902
7.40	Alley Turnout (8" Thick)	SF	1432
8.01	Concrete Curb and Gutter	LF	1359
9.10	Concrete Sidewalk	SF	3031
10.01	Junction Box - 4' Box	EA	3
10.02	Junction Box - 7' Box	EA	3
10.03	Abandon existing storm pipe (fill with flowable fill)	LF	649
10.04	Grate Inlet - 4' Box	EA	3
10.05	Curb Inlet - 4' Box	EA	19
10.07	Wing 3' Extension	EA	20
10.08	Wing 6' Extension	EA	4
10.09	Wing 10' Extension	EA	1
10.80	Rebuild Curb Inlet Top	EA	2
13.18S	Storm Drain Pipe, 18" Side Drain	LF	561
13.18C	Storm Drain Pipe, 18" Cross Drain	LF	88
13.19C	Storm Drain Pipe, 22"X14" Arch Pipe-Cross Drain	LF	53
13.24S	Storm Drain Pipe, 24"-Side Drain	LF	330
13.24C	Storm Drain Pipe, 24"-Cross Drain	LF	509
13.61	Tie into Existing Junction Box	EA	3
14.01	Solid Sod, Bermuda	SY	2694
16.01	Maintenance of Traffic	LS	1
17.10	Cut & Repair Existing Street Surface (PW-25)	SY	125
18.01	Relocate 6-ft Wood Fence	LF	53
18.50	Access Ramp	SF	763
18.55	Water for Dust Control	GAL	42900
19.01	Final cleanup	LS	1
20.01	Pipe Embedment	TON	277
23.01	B-Stone	TON	210
24.15	Drop Inlet Silt Protection	LF	600
24.06	Sediment Barrier, Silt Fence (SD1)	EA	9
25.10	Relocate 4-ft Chain Link Fence	LF	147
26.10	Trench excavation & safety	LS	1
27.03	Cold Milling (2 inch)	SY	976
LRW 1.53	Conflict Box (LR WASTEWATER DTL 1.53)	EA	2

NOTES:

ALL ITEMS ARE CONSTRUCT IN PLACE.

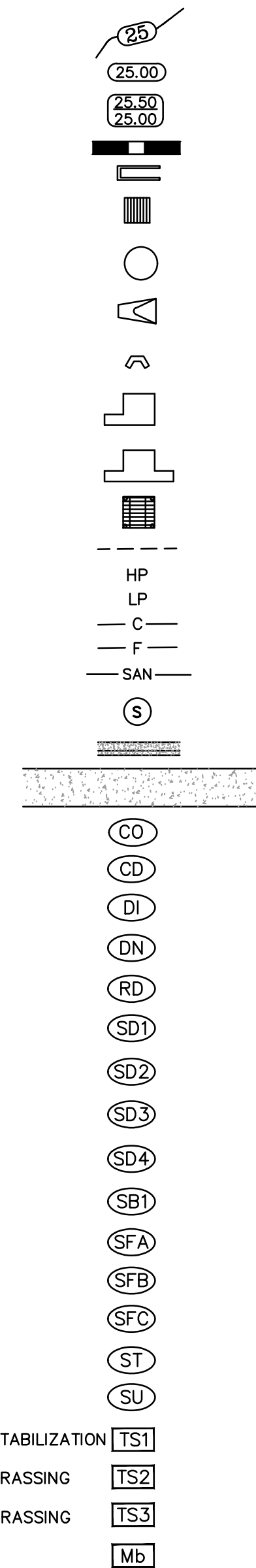
EXISTING

- IRON ROD
- PK NAIL
- R.R. SPIKE
- CONC. MONUMENT
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- CLEAN-OUT
- GUARD POST (BOLLARD)
- SIGN POST
- BENCHMARK
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE BOX
- ELECTRIC BOX
- CABLE BOX
- 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
- CURB
- FENCE
- OVERHEAD ELECTRIC
- OVERHEAD TELEPHONE
- OVERHEAD CABLE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- UNDERGROUND CABLE
- WATER LINE
- SEWER LINE
- GAS LINE
- STORM SEWER/CULVERT
- EDGE OF WOODS
- CONTOUR LINE



PROPOSED

- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SPOT CURB ELEVATION
- STORM SEWER - PIPE
- STORM SEWER - MITERED END SECTION
- STORM SEWER - GRATE INLET
- STORM SEWER - JUNCTION BOX
- STORM SEWER - FLARED END SECTION
- STORM SEWER - HEADWALL
- STORM SEWER - SINGLE WING
- STORM SEWER - DOUBLE WING
- STORM SEWER - AREA INLET
- GRADE BREAK LINE
- HIGH POINT
- 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



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 LEGEND & QUANTITIES

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

10-27-17

DRAWN BY  
 KDV  
 DESIGNED  
 KDV/NC  
 CHECKED  
 VJW  
 DATE  
 10-27-2017  
 SCALE  
 N/A  
 PROJECT NO.  
 CLR #16-3-ST-64  
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 C1



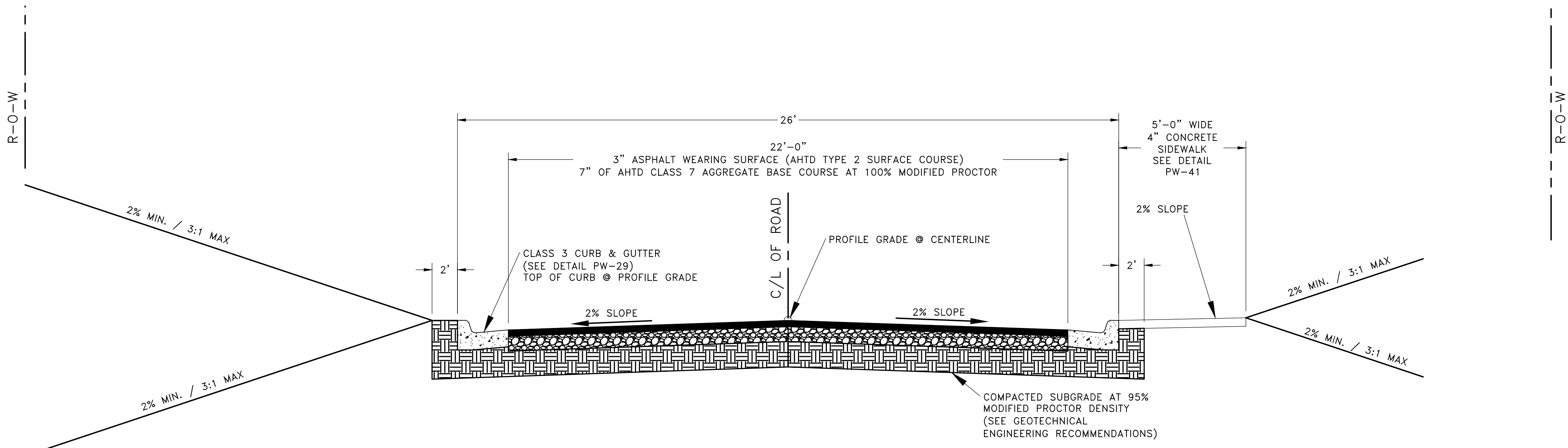
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 TYPICAL SECTIONS

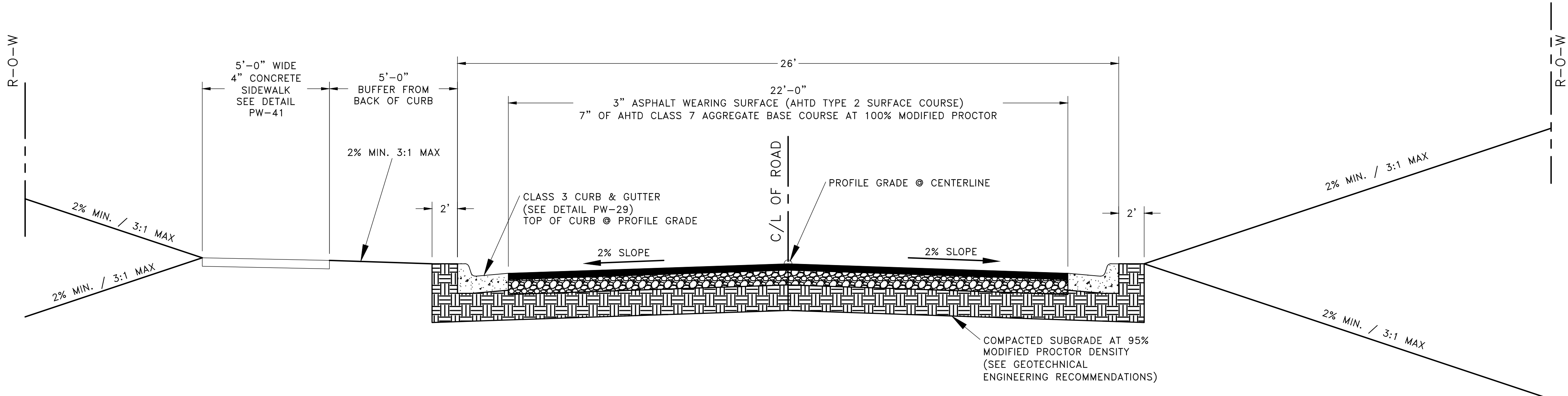
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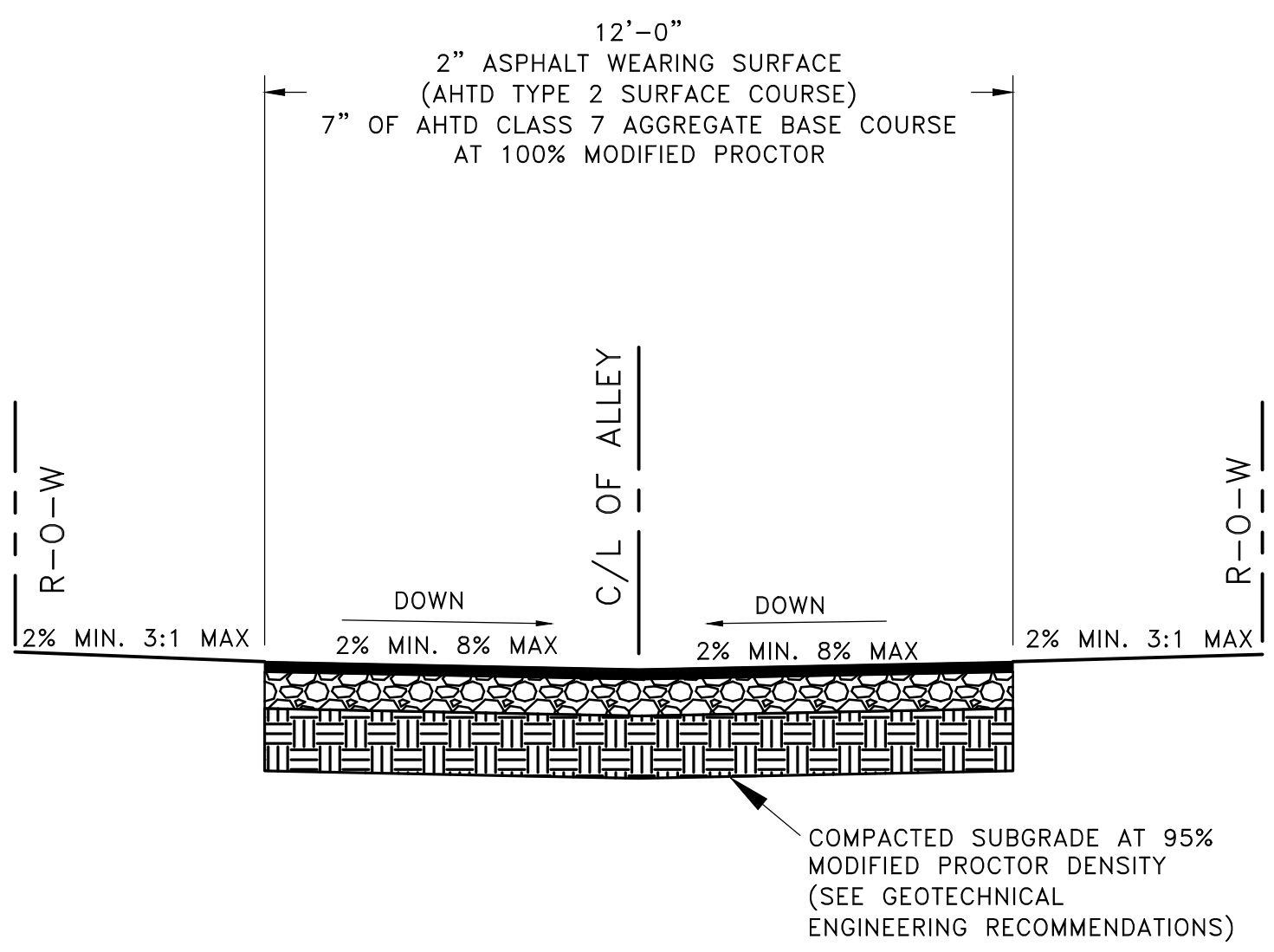
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**DESIGNED**  
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**SCALE**  
 AS SHOWN  
**PROJECT NO.**  
 CLR #16-3-ST-64  
**SHEET NO.**  
 C2



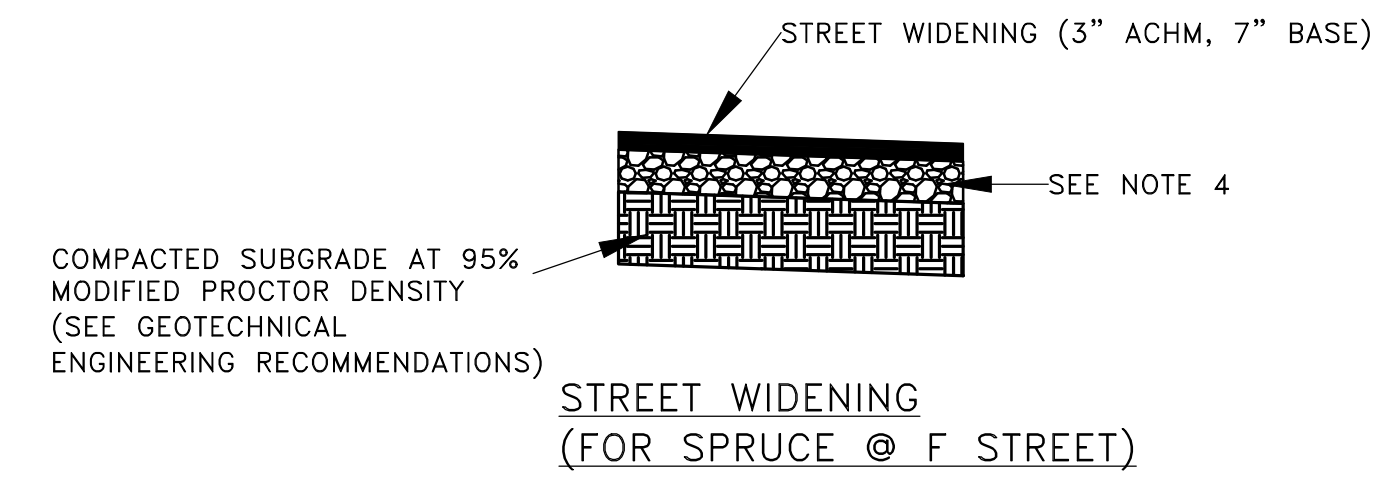
TYPICAL STREET SECTION G STREET  
 SCALE: 3/8" = 1'-0"



TYPICAL STREET SECTION F STREET  
 SCALE: 3/8" = 1'-0"



TYPICAL ALLEY SECTION  
 SCALE: 3/8" = 1'-0"



- GENERAL STREET CONSTRUCTION NOTES:
1. REFER TO THE CITY OF LITTLE ROCK STANDARD DETAILS.
  2. IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS, OR CURB & GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT. (AASHTO T-180)
  3. FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO A DENSITY OF 90% MAXIMUM. (AASHTO T-180)
  4. CRUSHED STONE - MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 100% MAXIMUM (AASHTO T-191)
  5. THIS SECTION WILL REQUIRE THAT THE TOP OF CURB SHALL BE CONSTRUCTED TO BE AT THE SAME ELEVATION AS THE PROPOSED CENTERLINE PROFILE GRADE.
  6. PAVEMENT RECONSTRUCTION (WHERE SHOWN ON THE PLANS) SHALL BE IN ACCORDANCE WITH STANDARD DETAIL PW-22.
  7. SEE MISCELLANEOUS DETAIL SHEET FOR MODIFIED DETAILS OF CURB AND GUTTER AND OTHER ITEMS THAT ARE DIFFERENT FROM THE CITY STANDARDS.







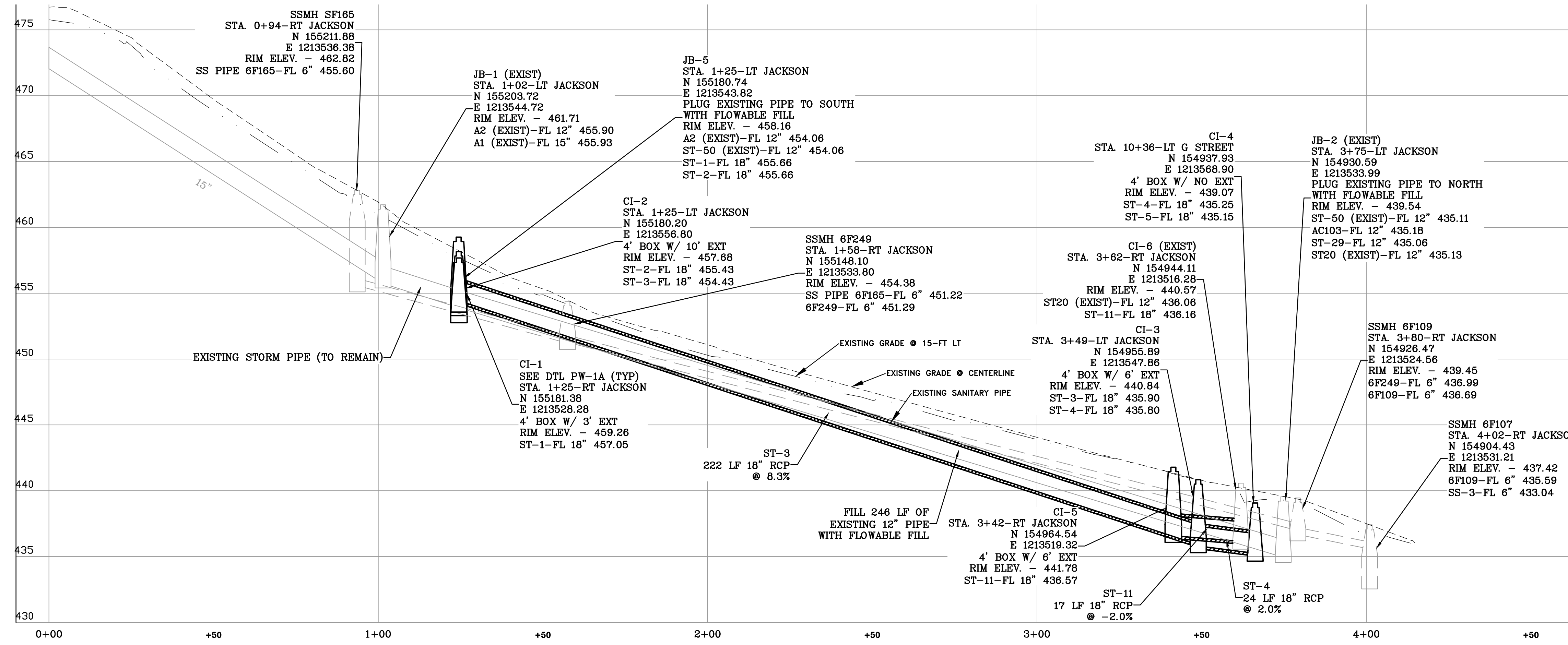
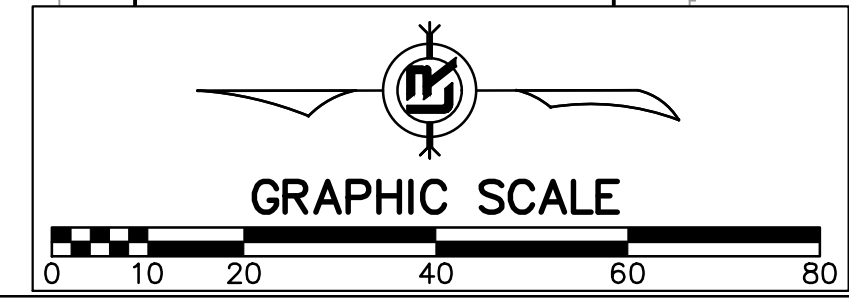
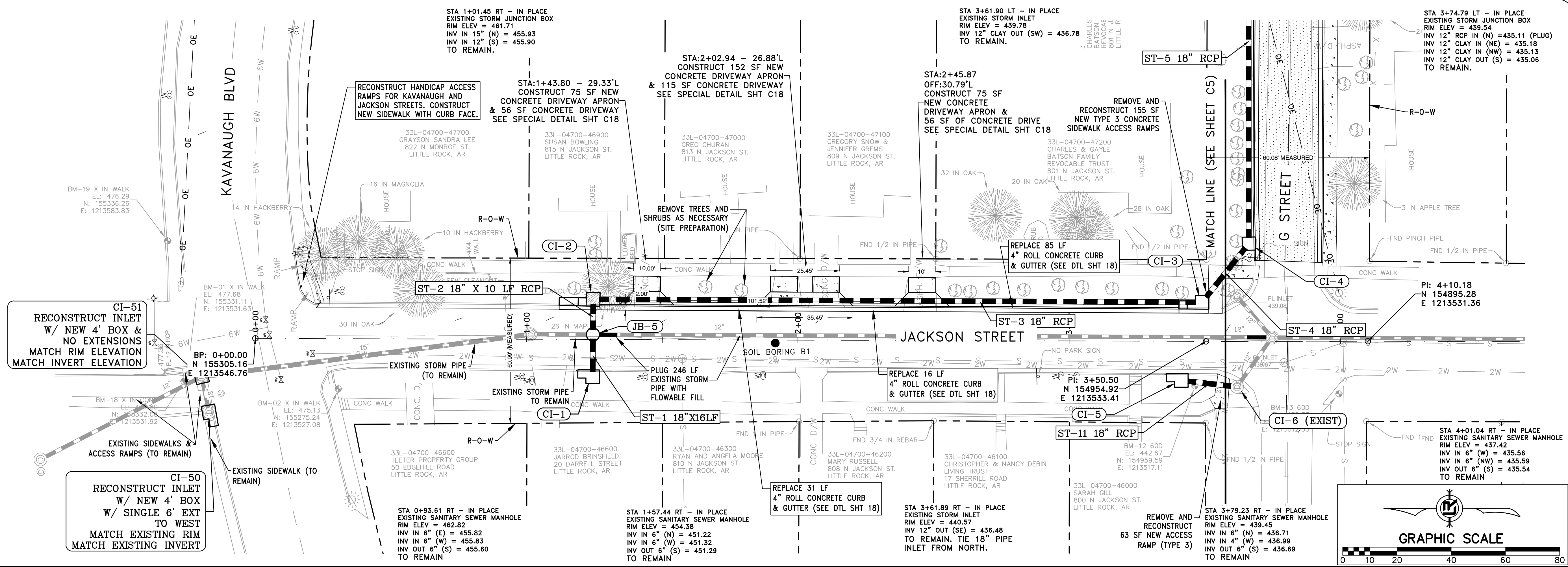
REVISIONS	DATE
90% REVIEW - KDV	10/27/17

CITY OF LITTLE ROCK, ARKANSAS  
KAVANAUGH BLVD DRAINAGE  
PLAN AND PROFILE - JACKSON STREET

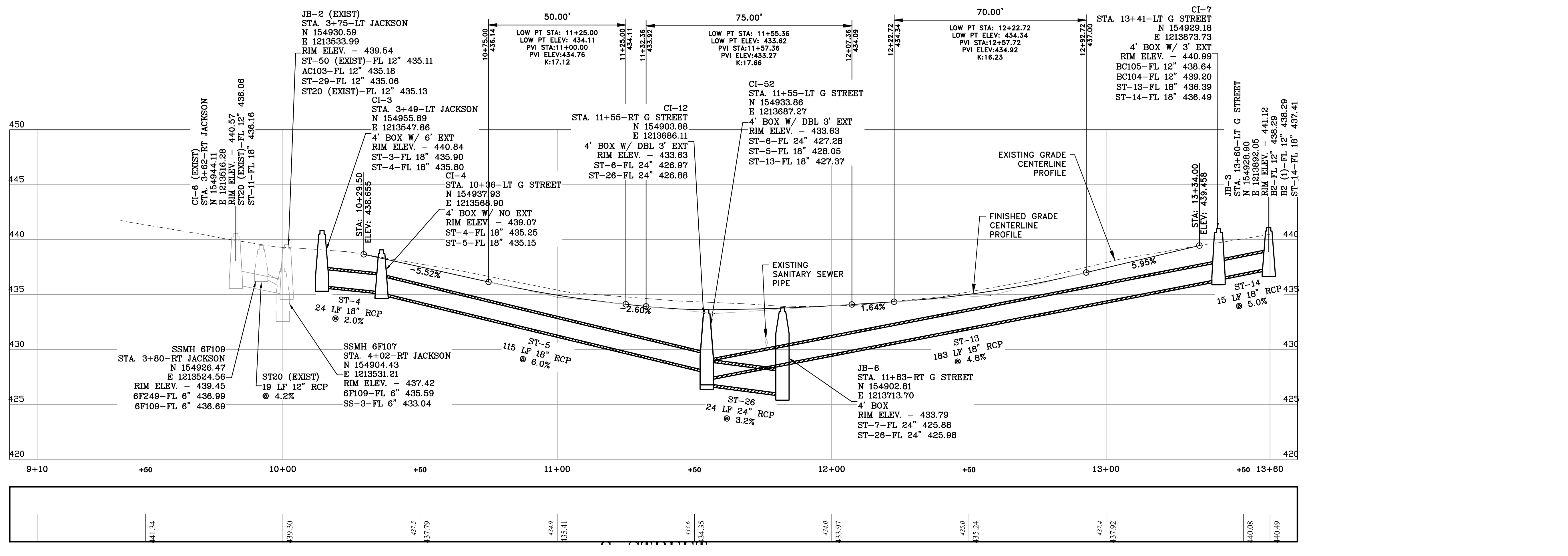
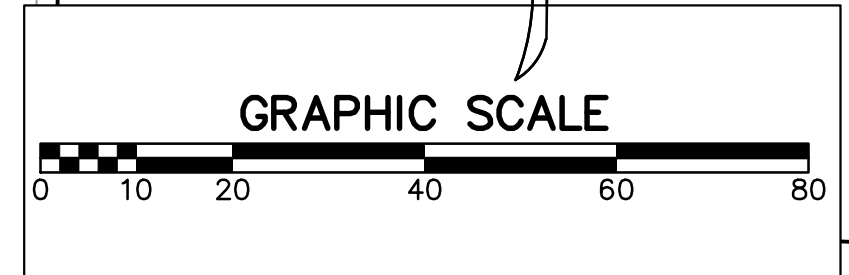
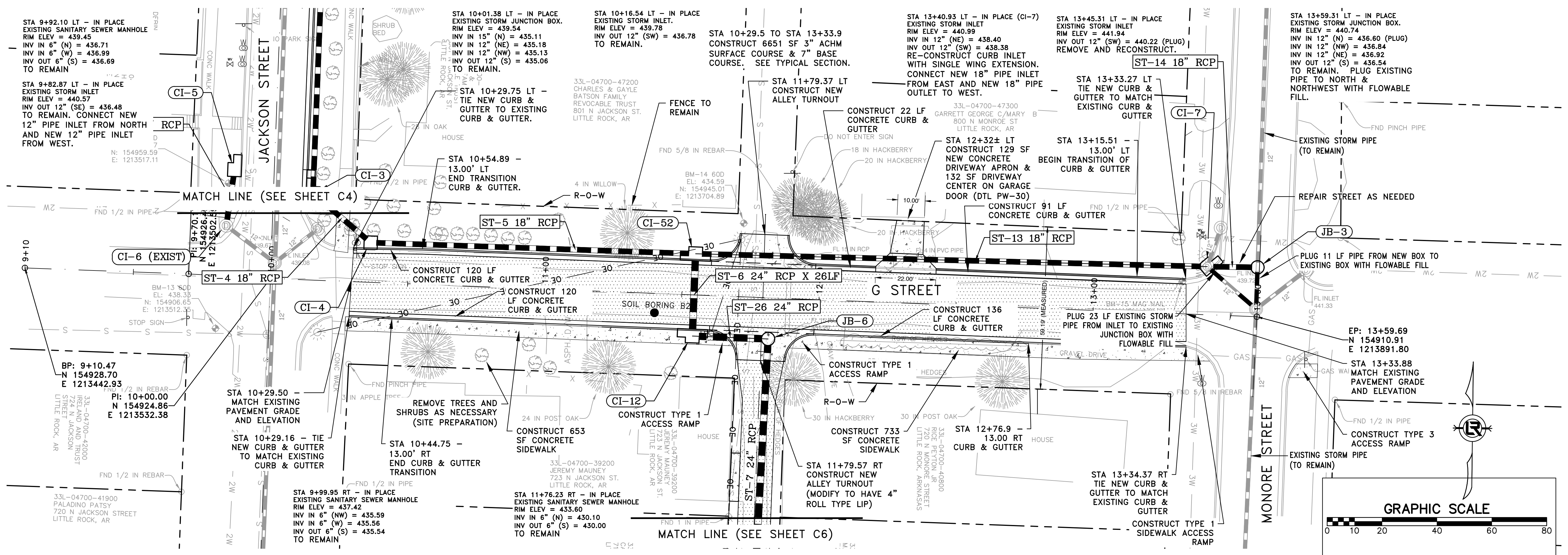
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701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



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**DATE**  
10-27-2017  
**SCALE**  
1"=20'  
**PROJECT NO.**  
CLR #16-3-ST-64  
**SHEET NO.**  
C4








REVISIONS	DATE

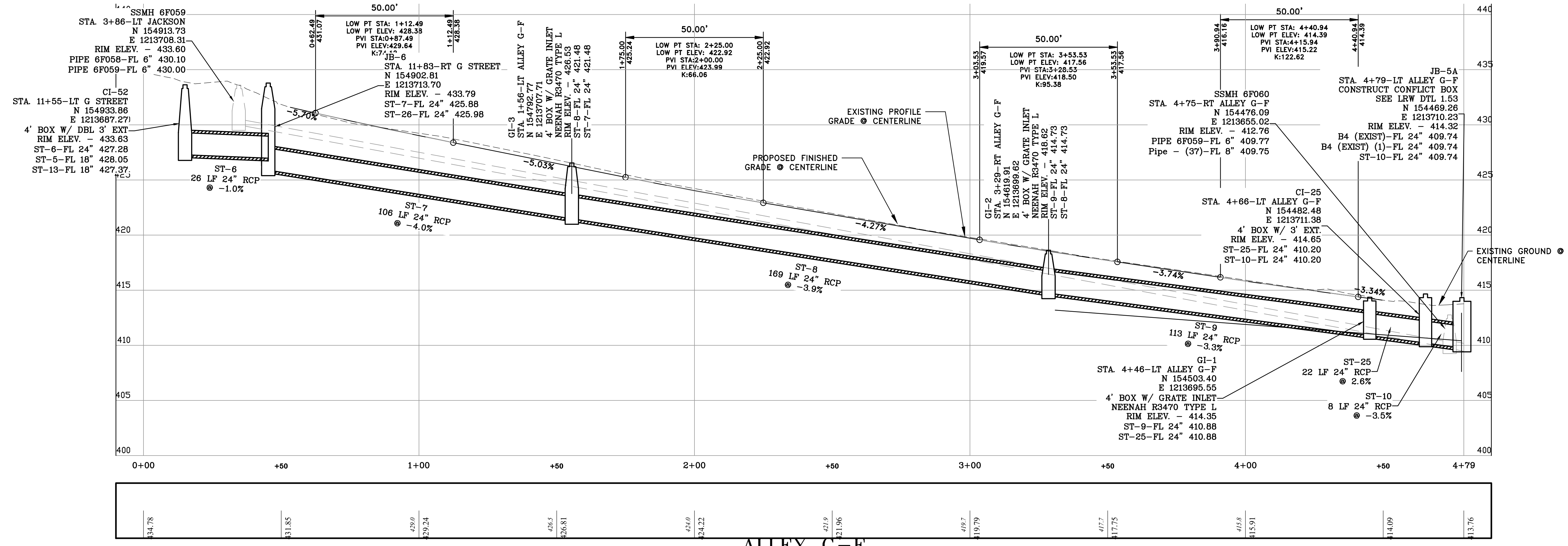
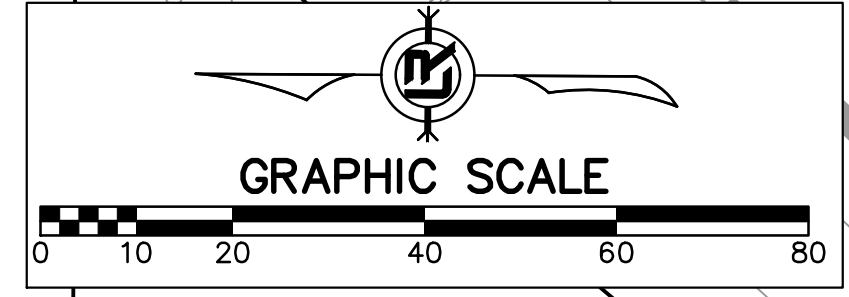
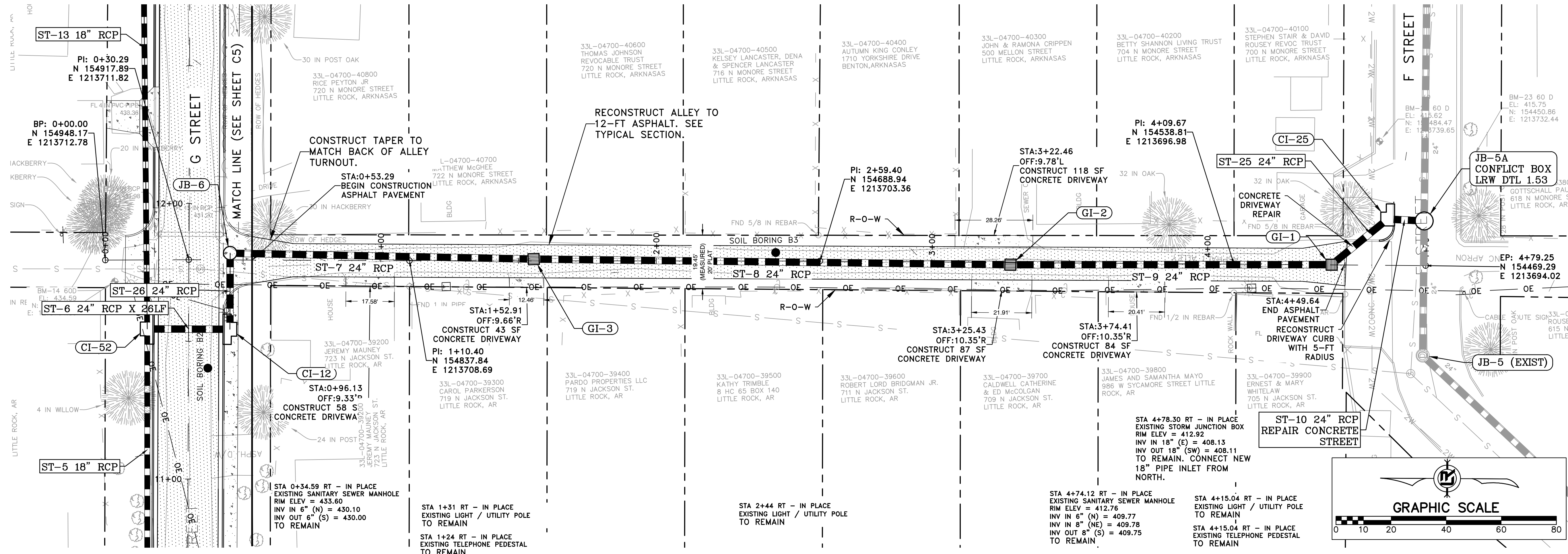
**CITY OF LITTLE ROCK, ARKANSAS**  
**KAVANAUGH BLVD DRAINAGE**  
**PLAN AND PROFILE - G STREET**

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

  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 7896  
 10-27-17

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 AV  
**DESIGNED**  
 KDV  
**CHECKED**  
 VW  
**DATE**  
 10-27-2017  
**SCALE**  
 1"=20'  
**PROJECT NO.**  
 CLR #16-3-ST-64  
**SHEET NO.**  
 C5





REVISIONS	DATE

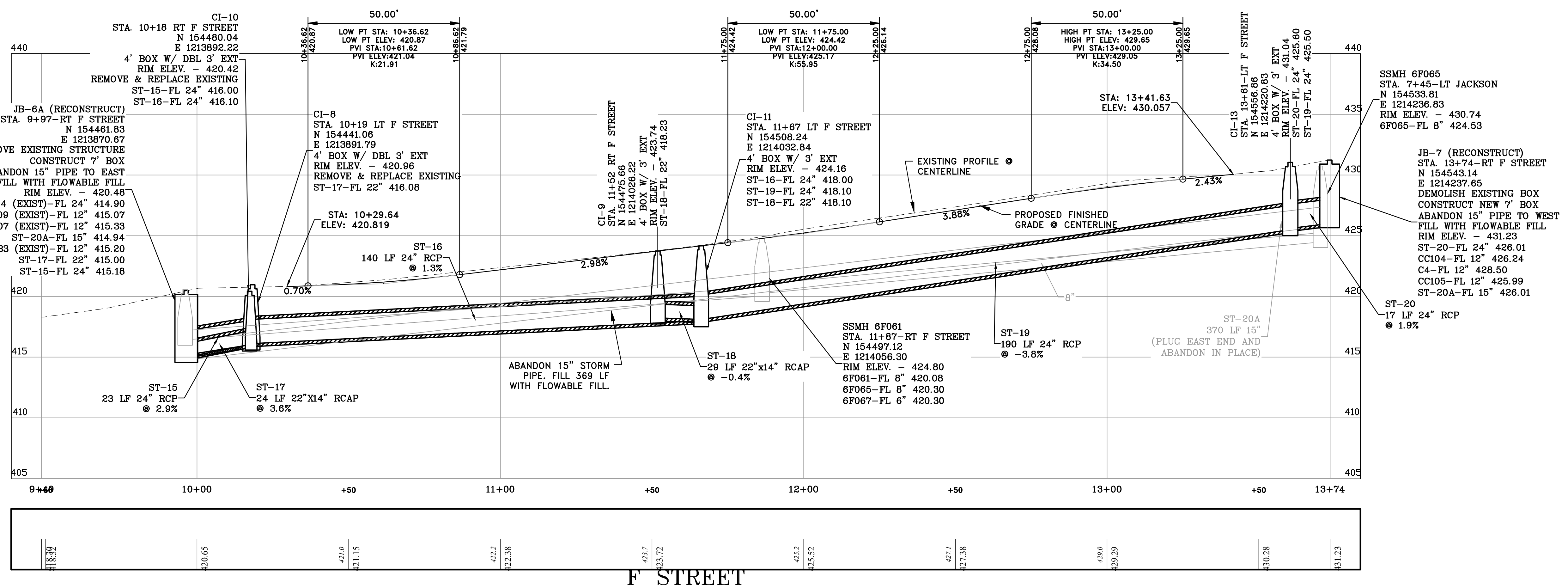
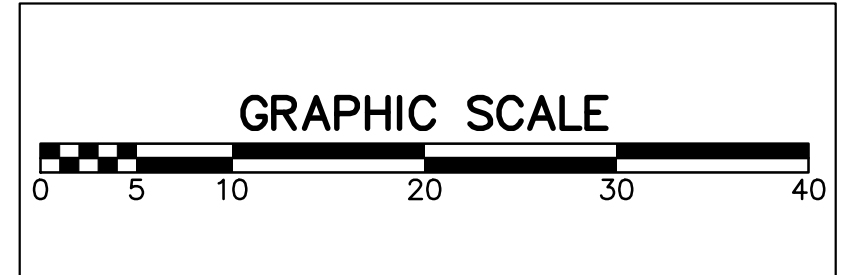
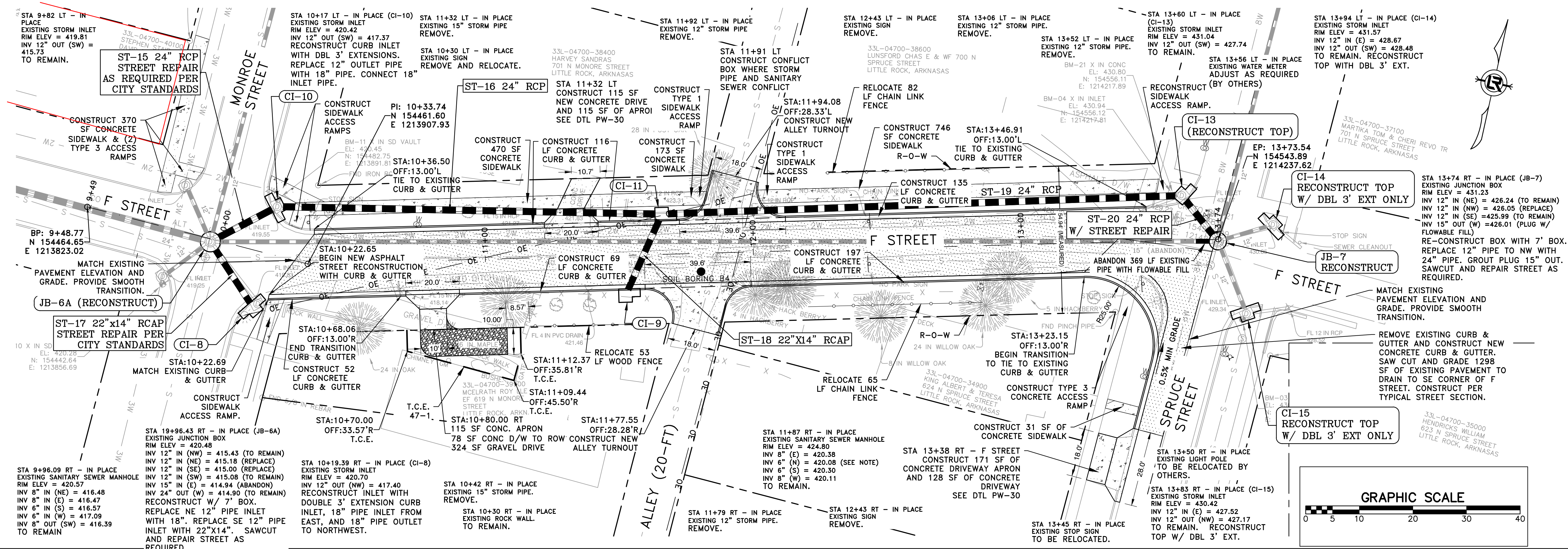
CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 PLAN AND PROFILE - ALLEY BETWEEN G & F STREET

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



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 DATE 10-27-2017  
 SCALE 1"=20'  
 PROJECT NO. CLR #16-3-ST-64  
 SHEET NO. C6





F STREET

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 PLAN AND PROFILE - F STREET

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
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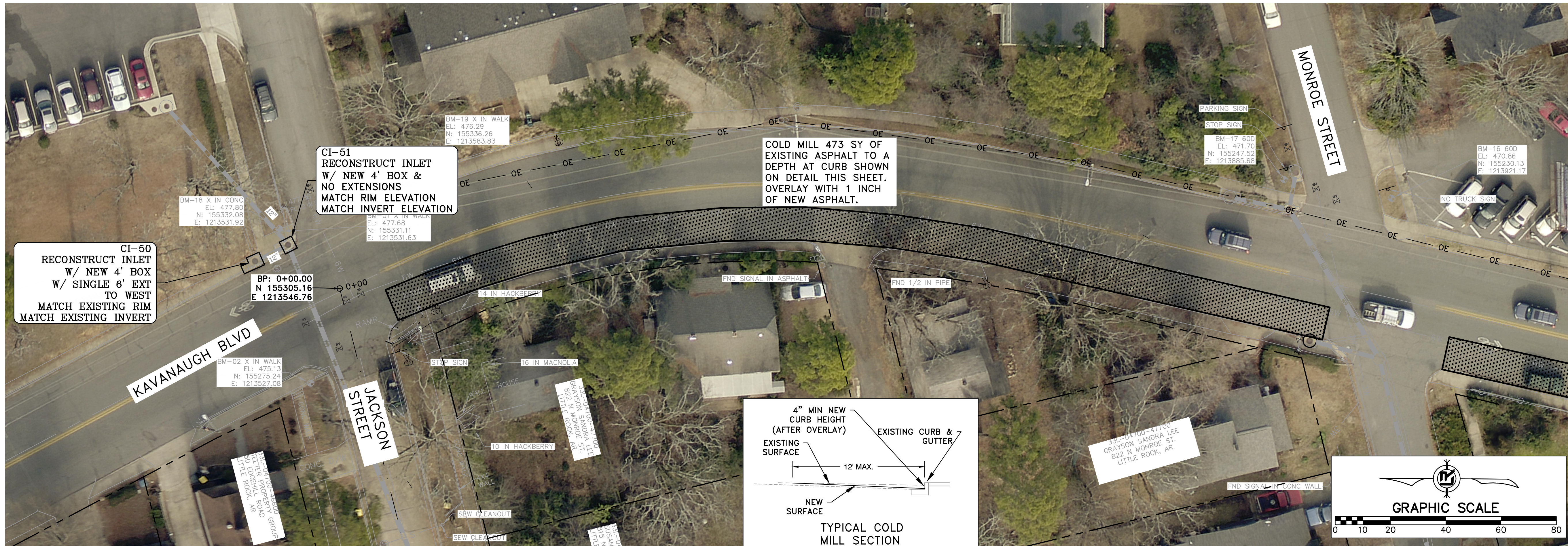


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 DESIGNED  
 KDV / NC  
 CHECKED  
 VW  
 DATE  
 10-27-2017  
 SCALE  
 1"=20'  
 PROJECT NO.  
 CLR #16-3-ST-64  
 SHEET NO.  
 C7









REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**KAVANAUGH BLVD DRAINAGE**  
**PLAN - KAVANAUGH BLVD PAVEMENT IMPROVEMENTS**

STATE OF ARKANSAS  
 DEPARTMENT OF PUBLIC WORKS  
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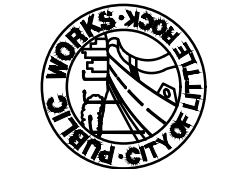
STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 ELY D. VANLANDINGHAM  
 NO. 7896  
 10-27-17

**DRAWN BY AV**  
**DESIGNED KDV**  
**CHECKED VW**  
**DATE 10-27-2017**  
**SCALE 1"=20'**  
**PROJECT NO. CLR #16-3-ST-64**  
**SHEET NO. C9**



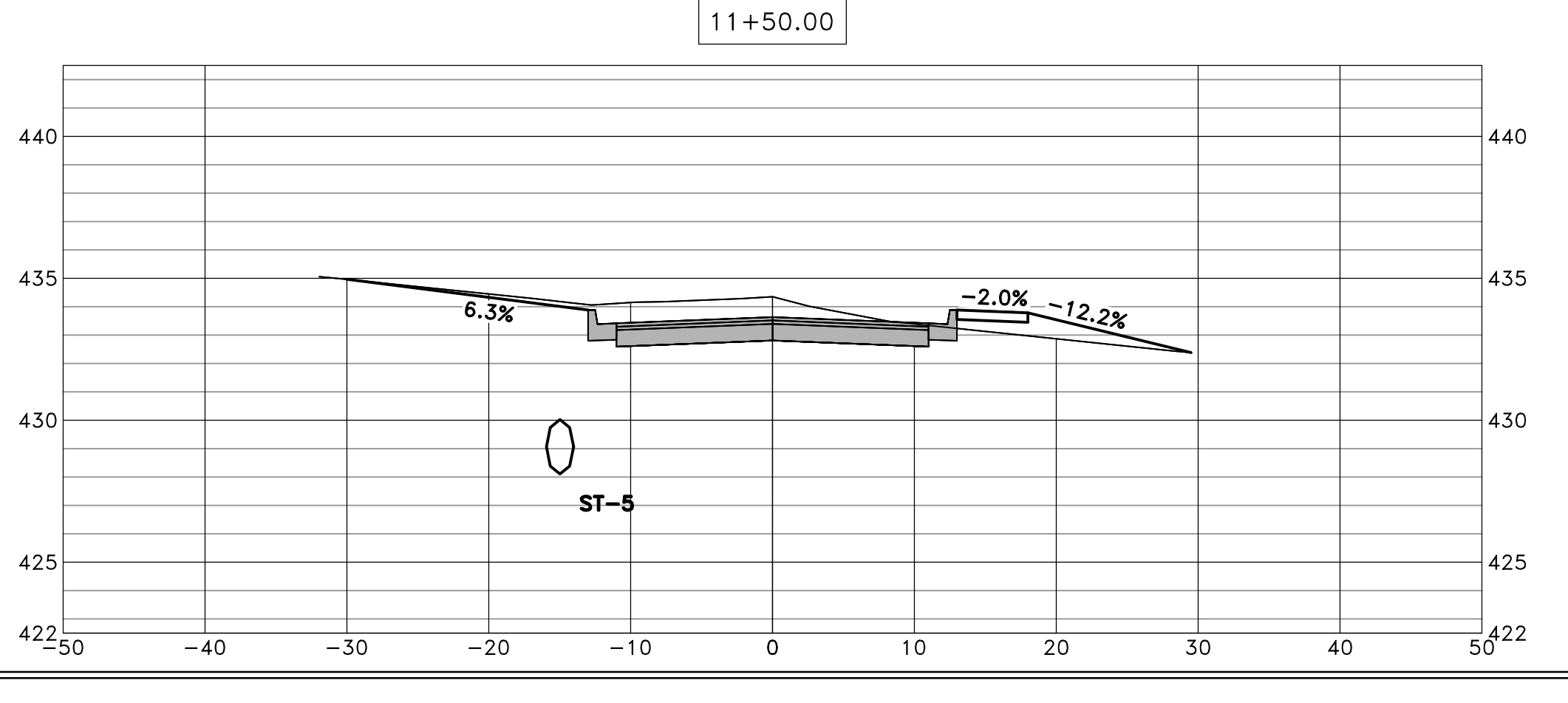
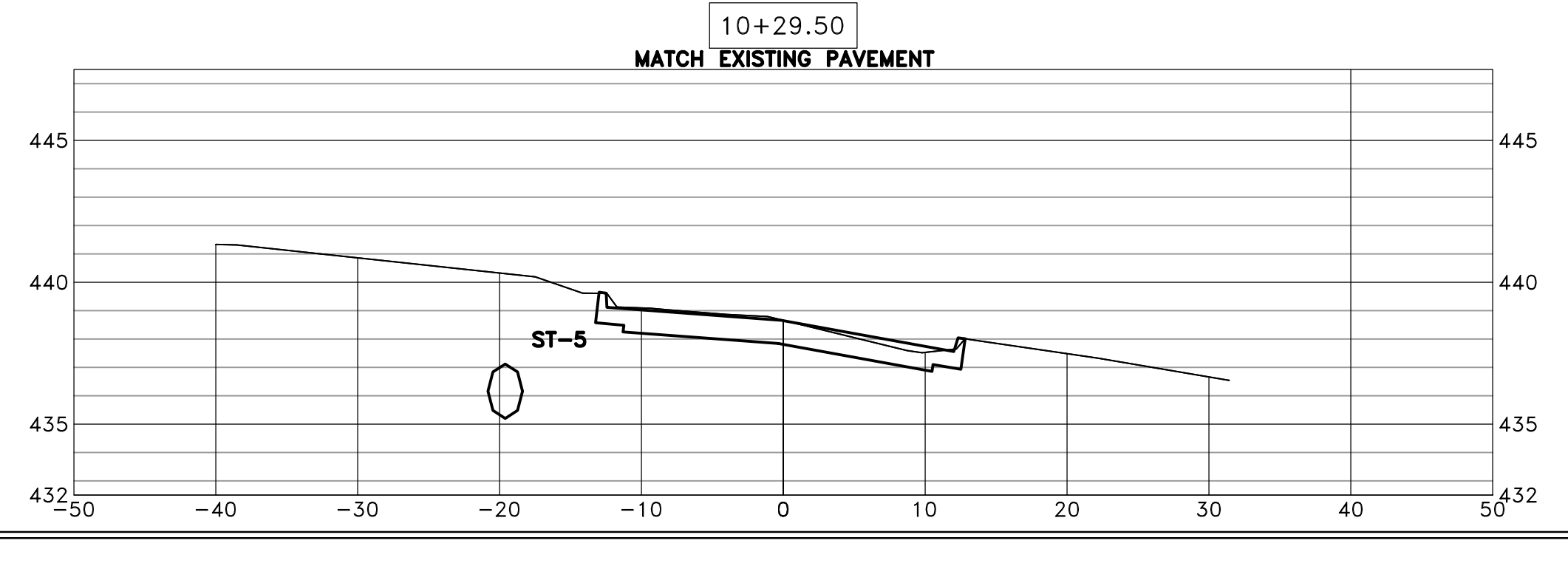
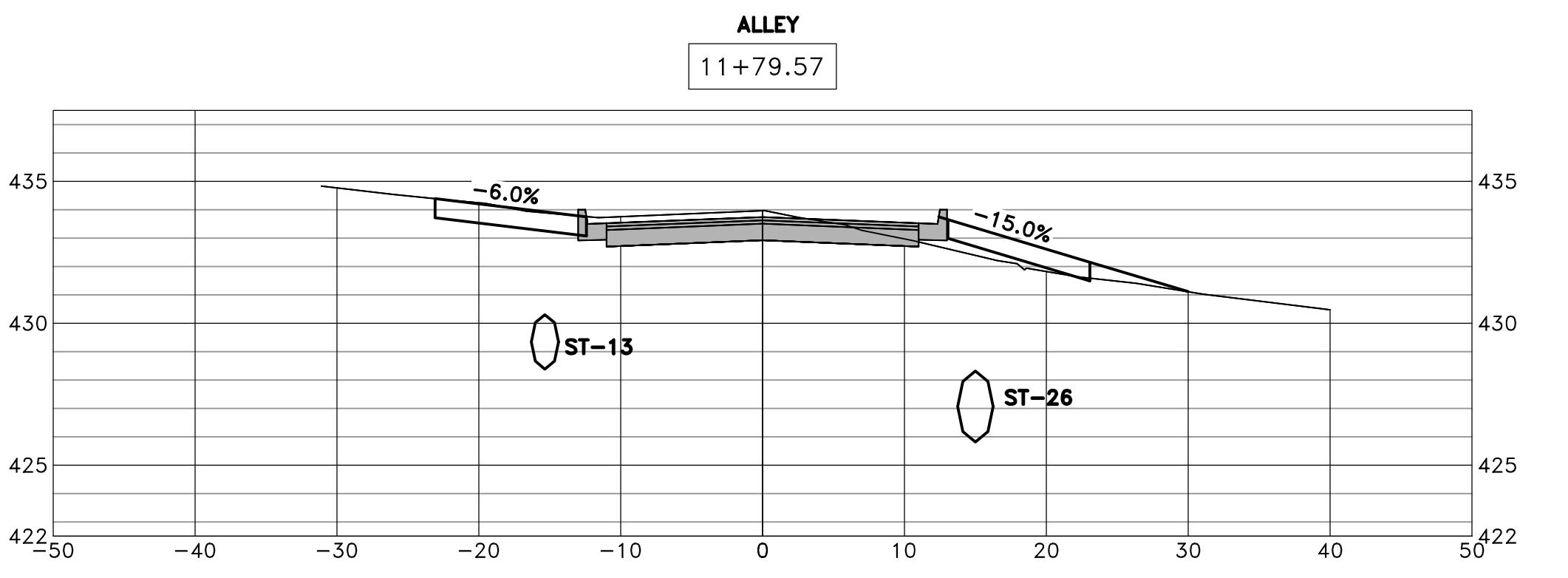
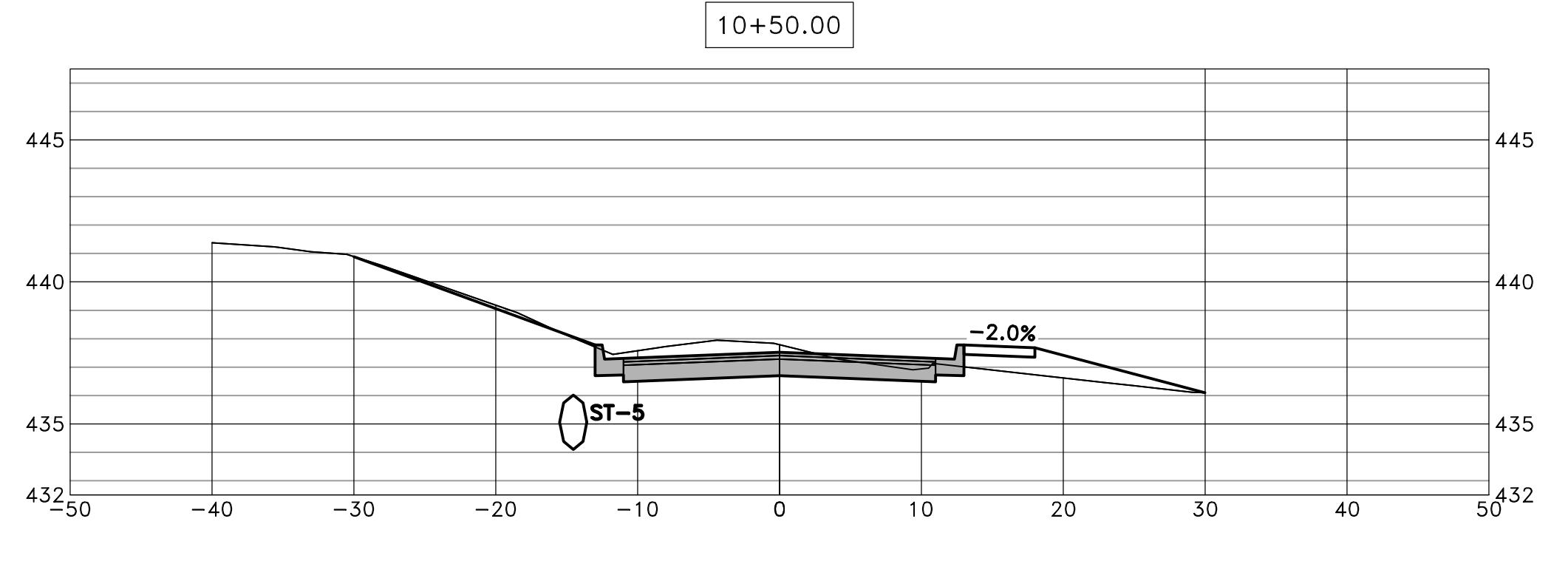
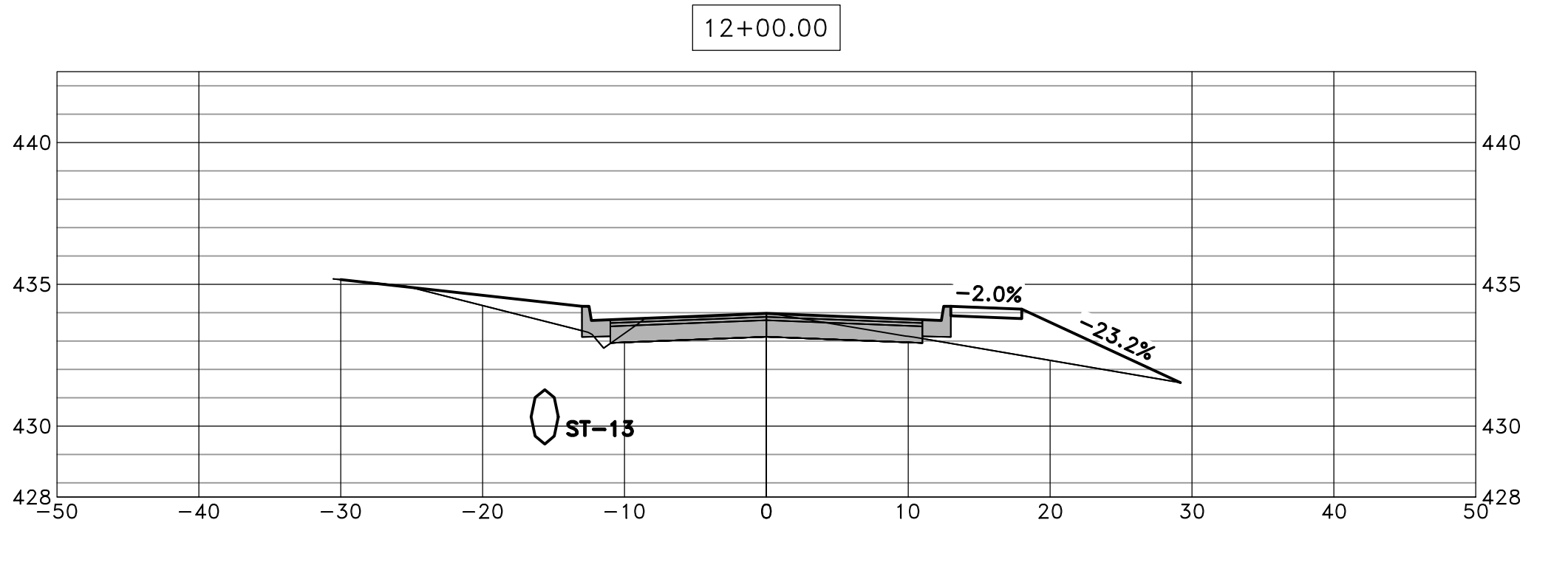
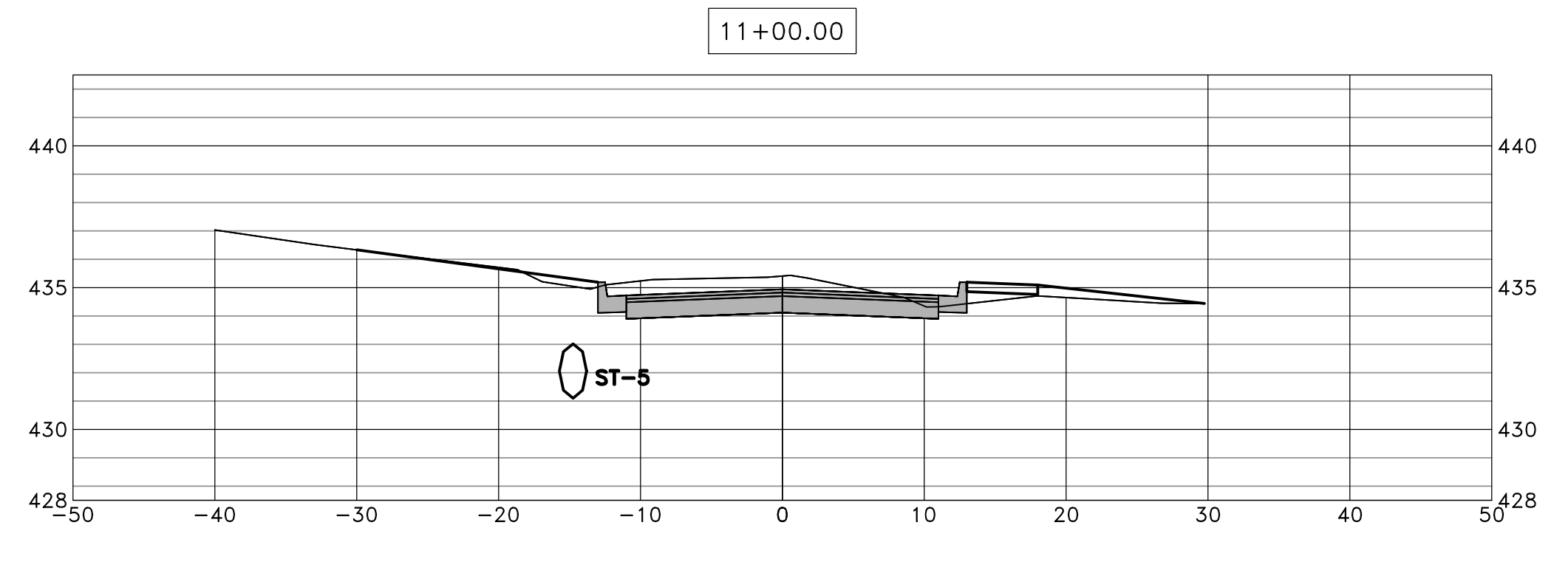
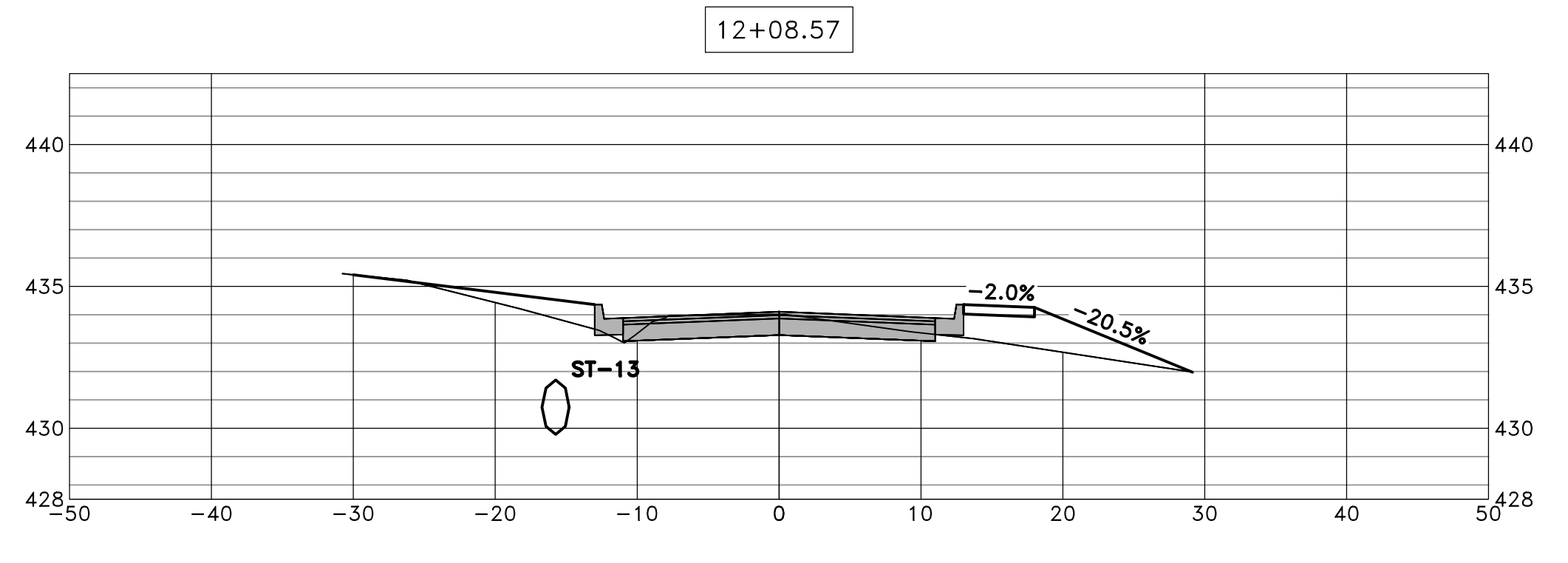
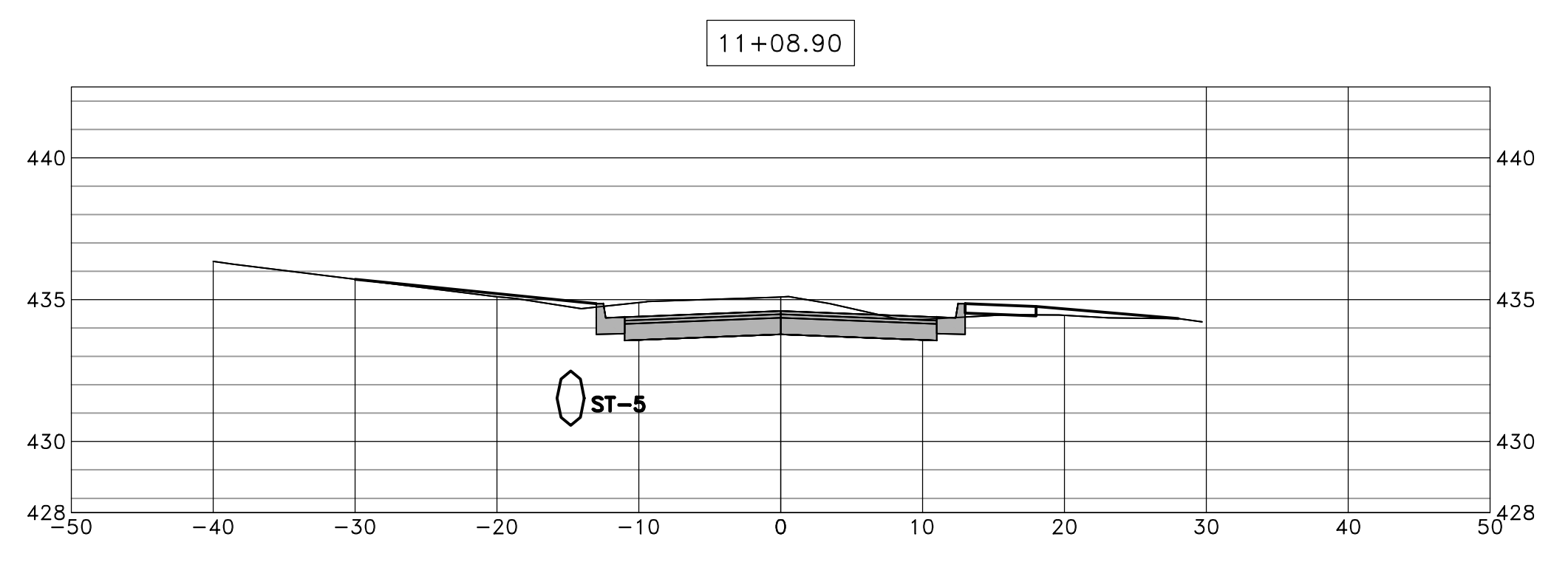
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CITY OF LITTLE ROCK, ARKANSAS  
KAVANAUGH BLVD DRAINAGE  
CROSS SECTIONS - G STREET

  
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 701 W. MARKHAM  
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 10-27-17

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 1"=10' HZ : 1"=5' VT  
**PROJECT NO.**  
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**SHEET NO.**  
 C10





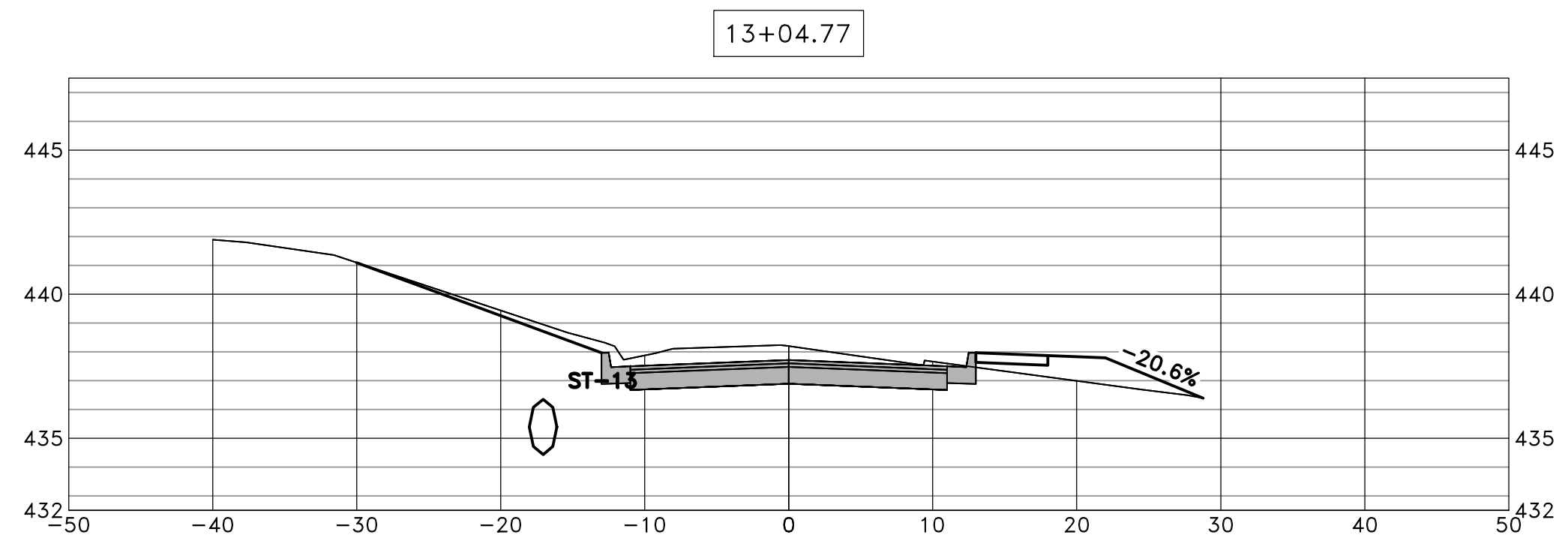
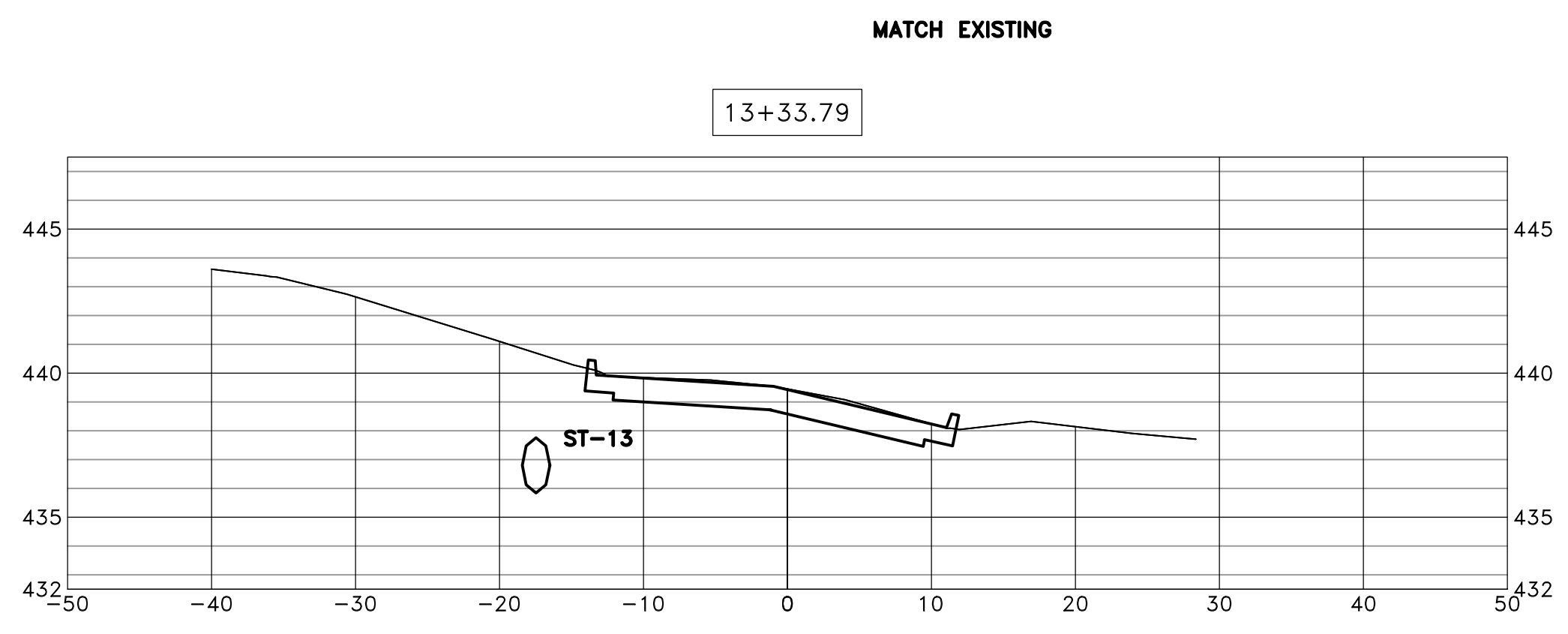
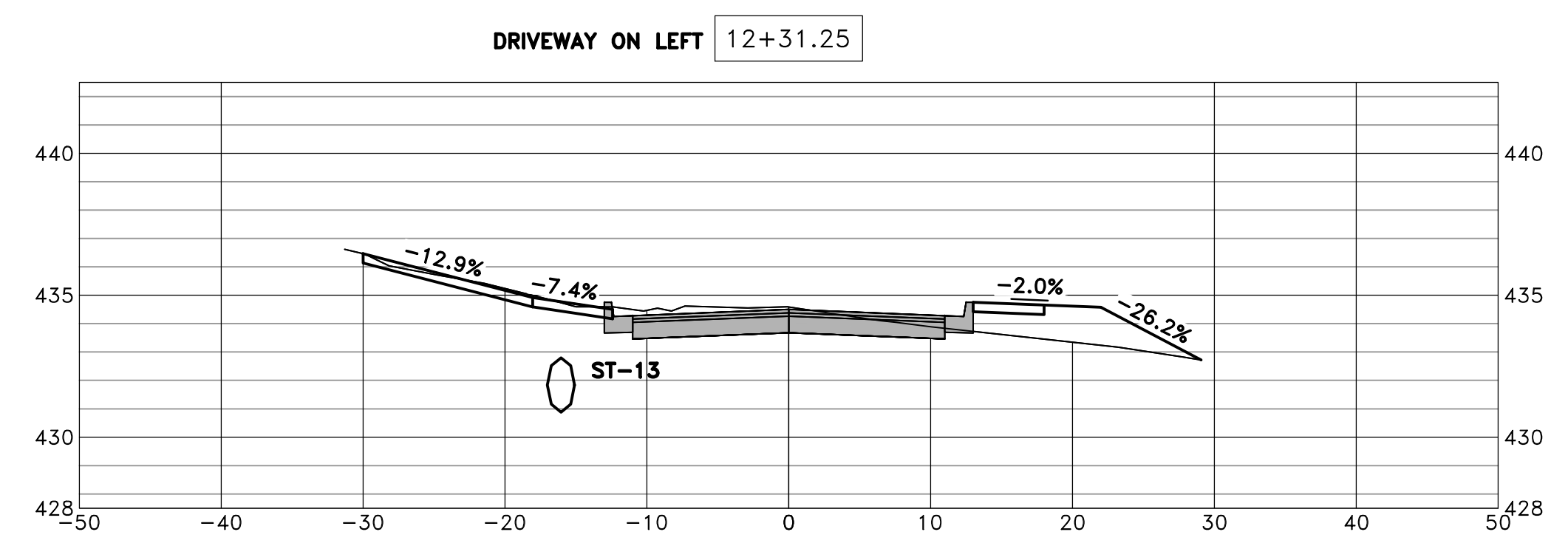
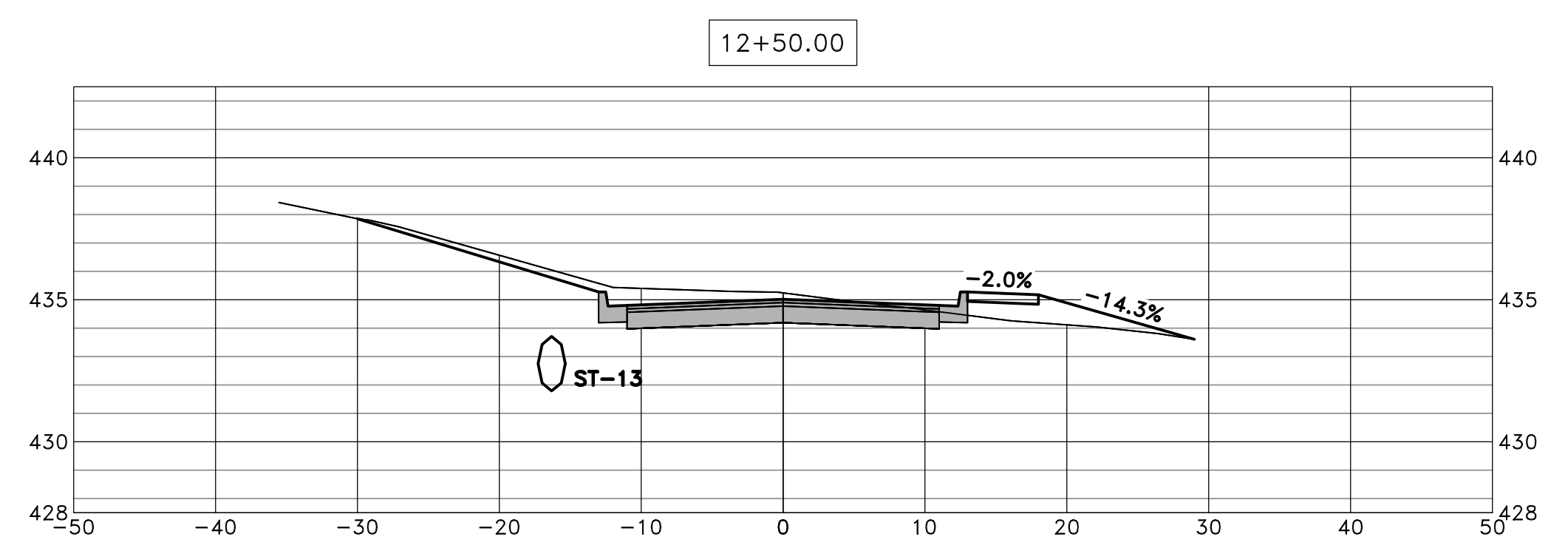
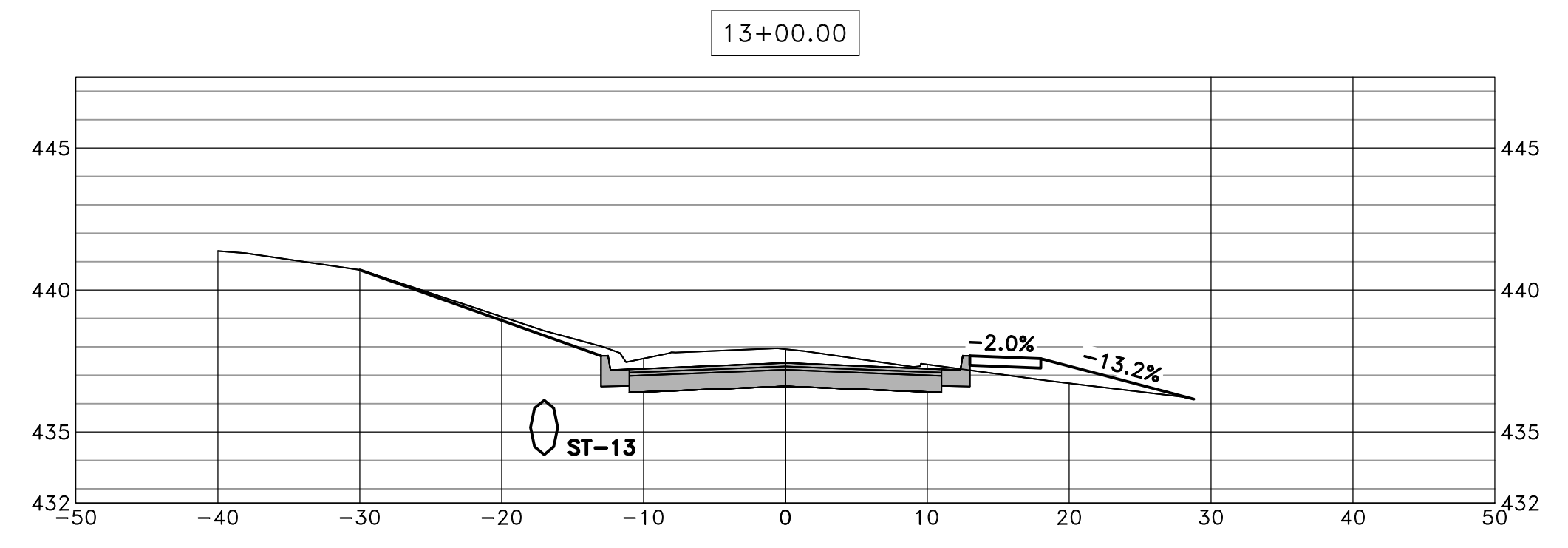
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CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 CROSS SECTIONS - G STREET

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STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 7896  
 KELLY D. VANLANDINGHAM  
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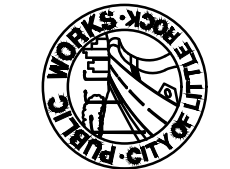
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 CROSS SECTIONS - F STREET

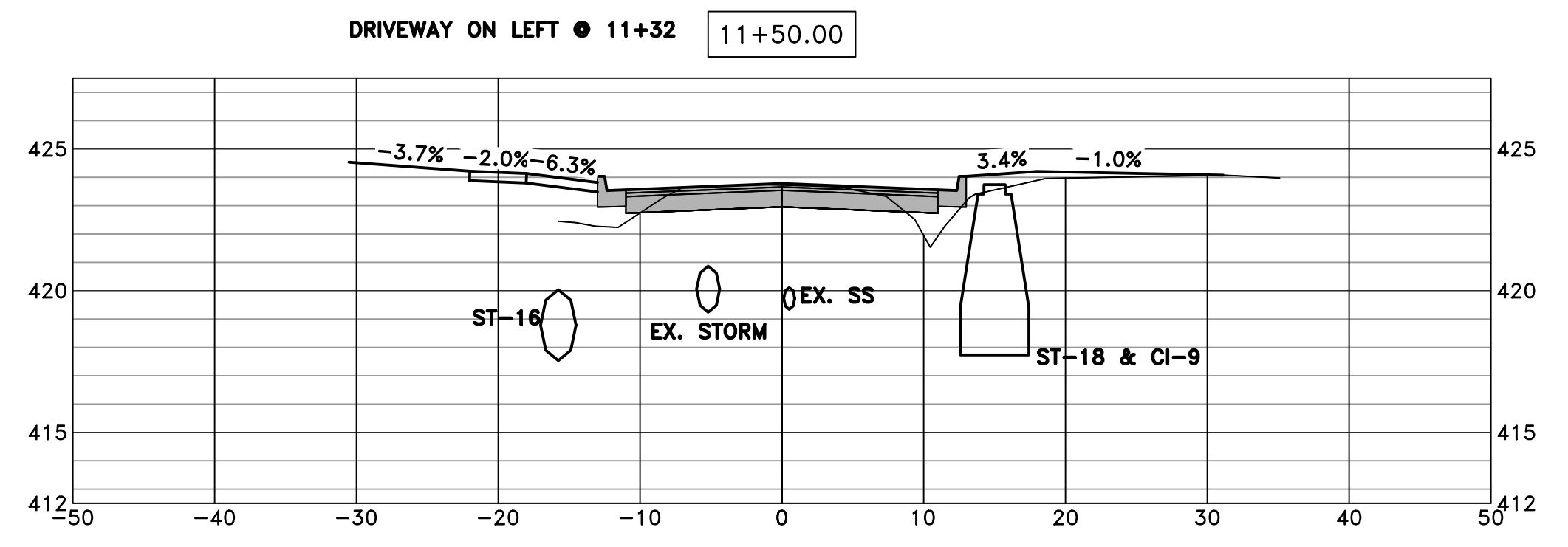
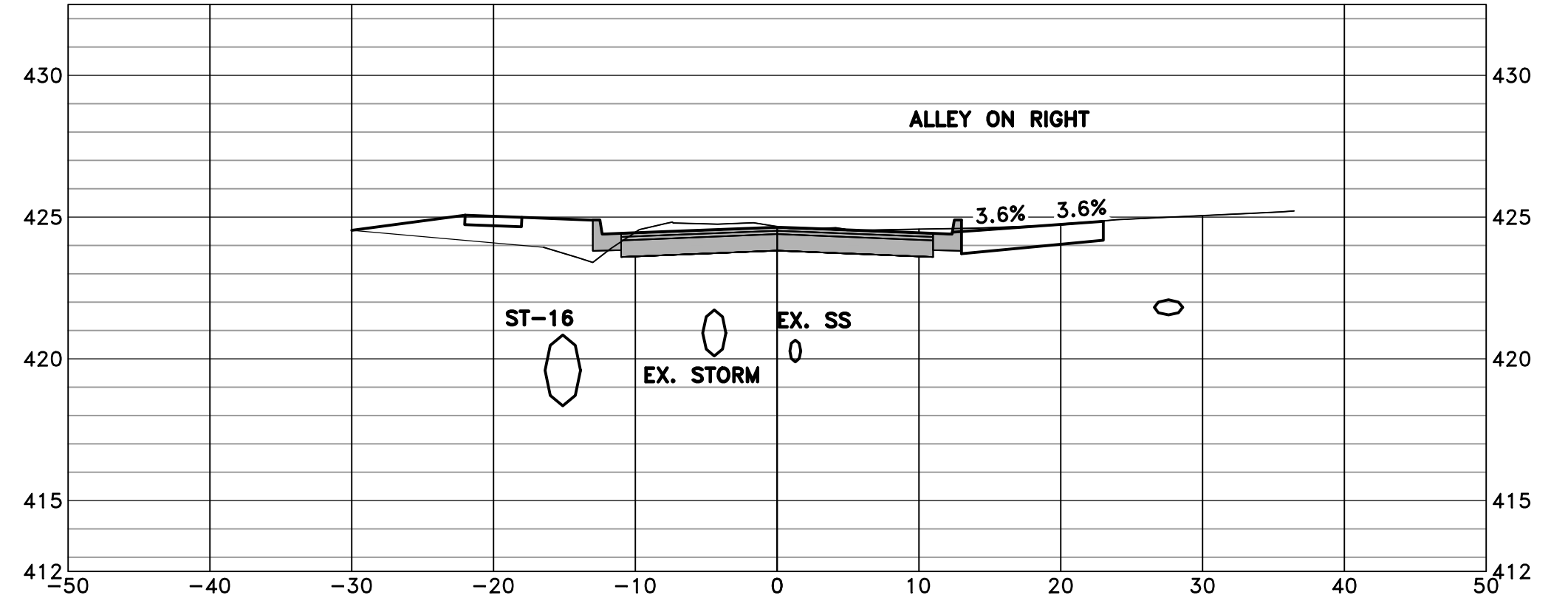
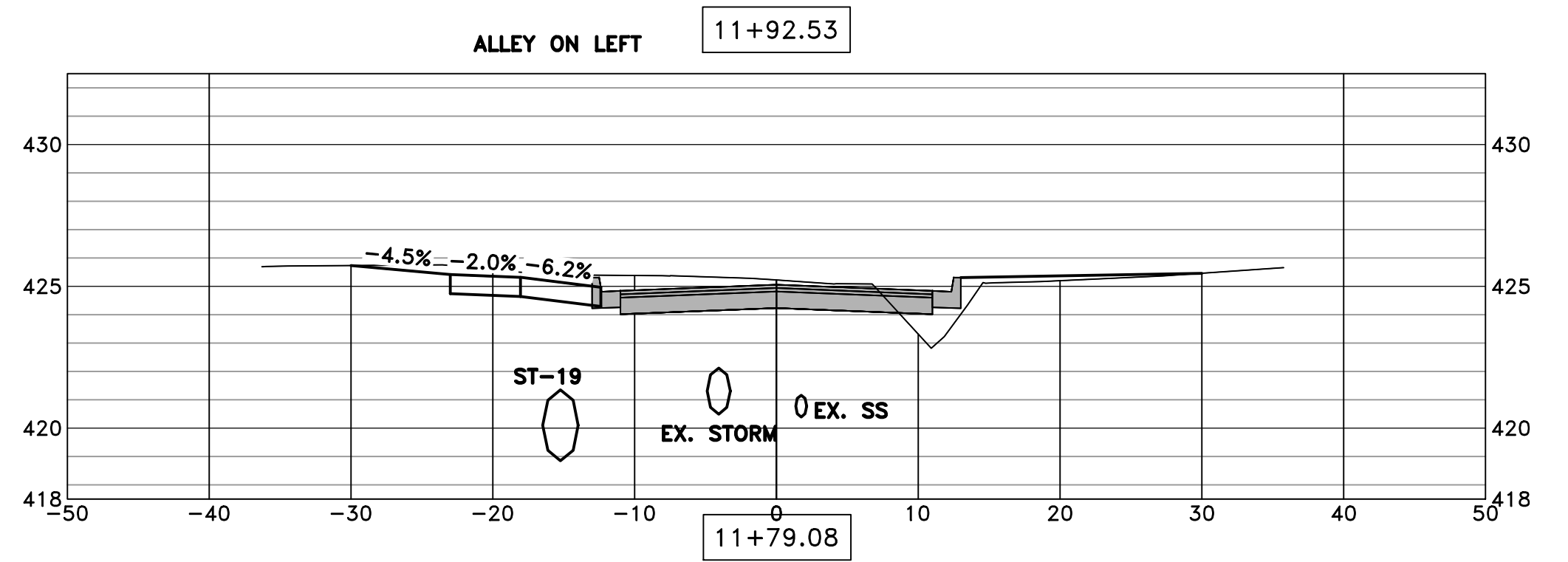
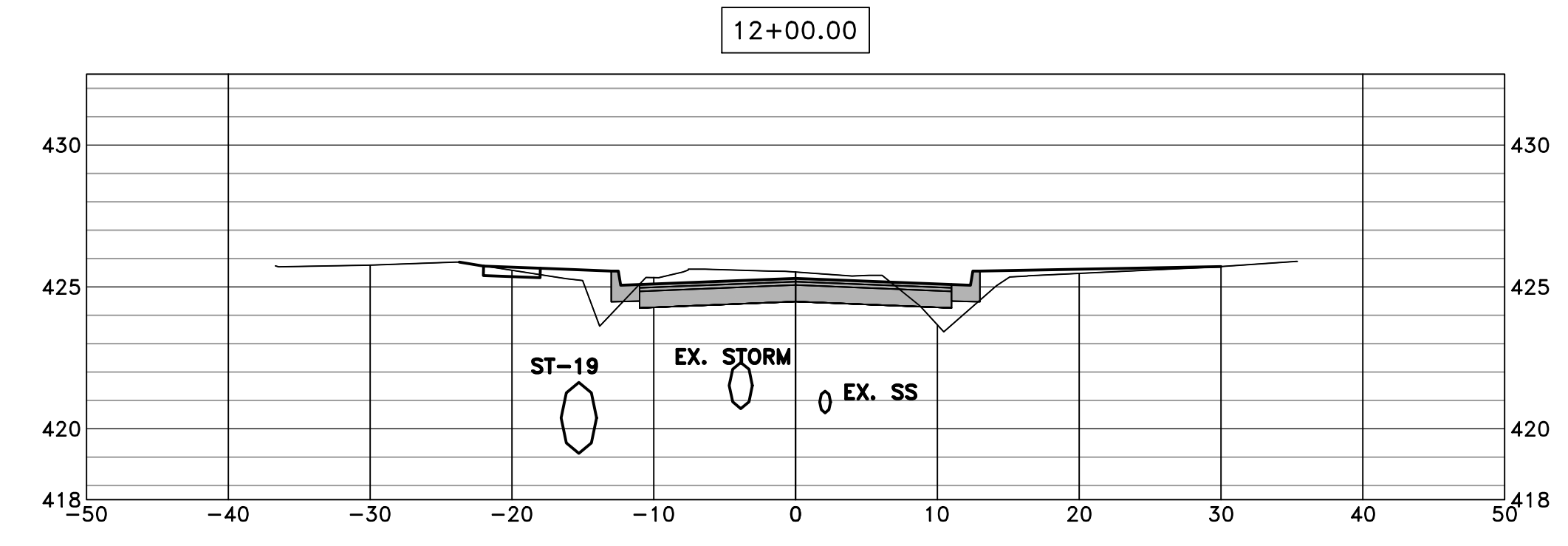
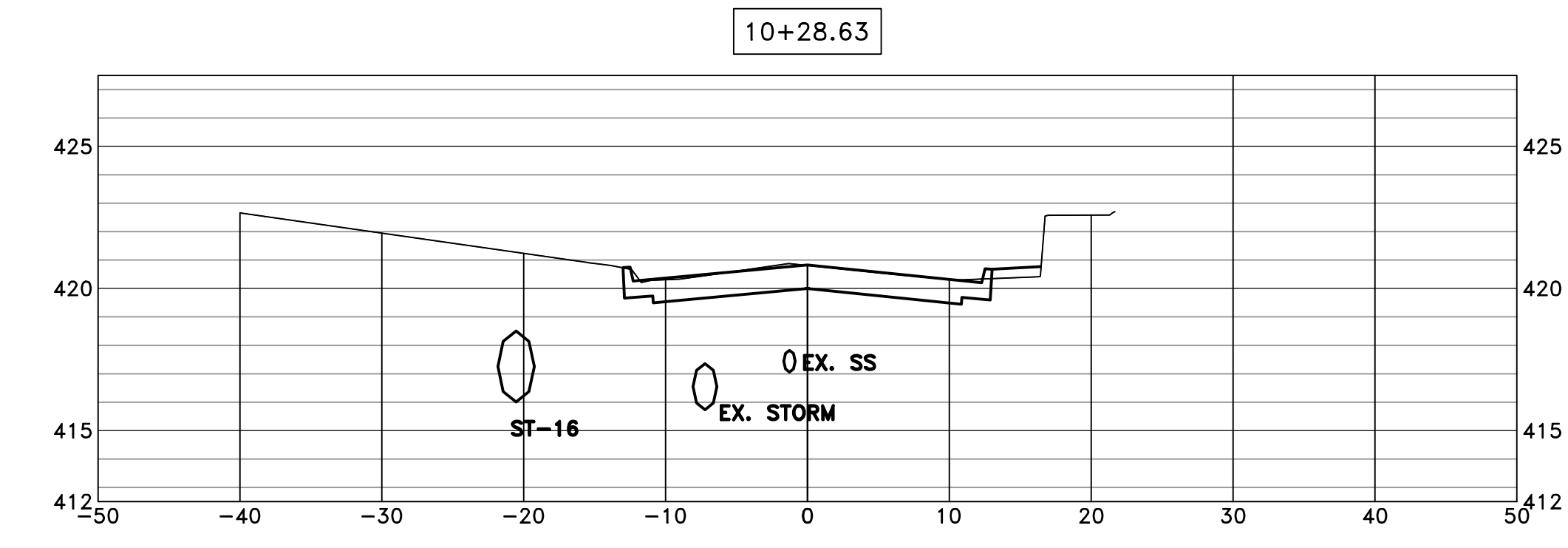
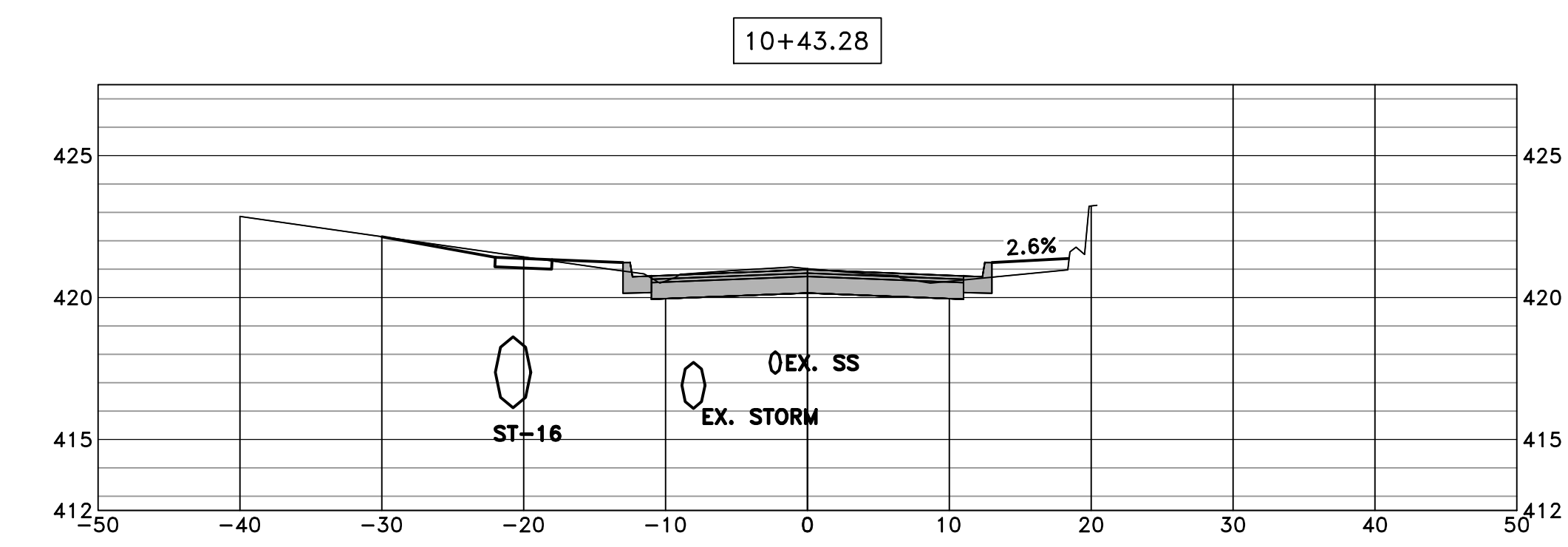
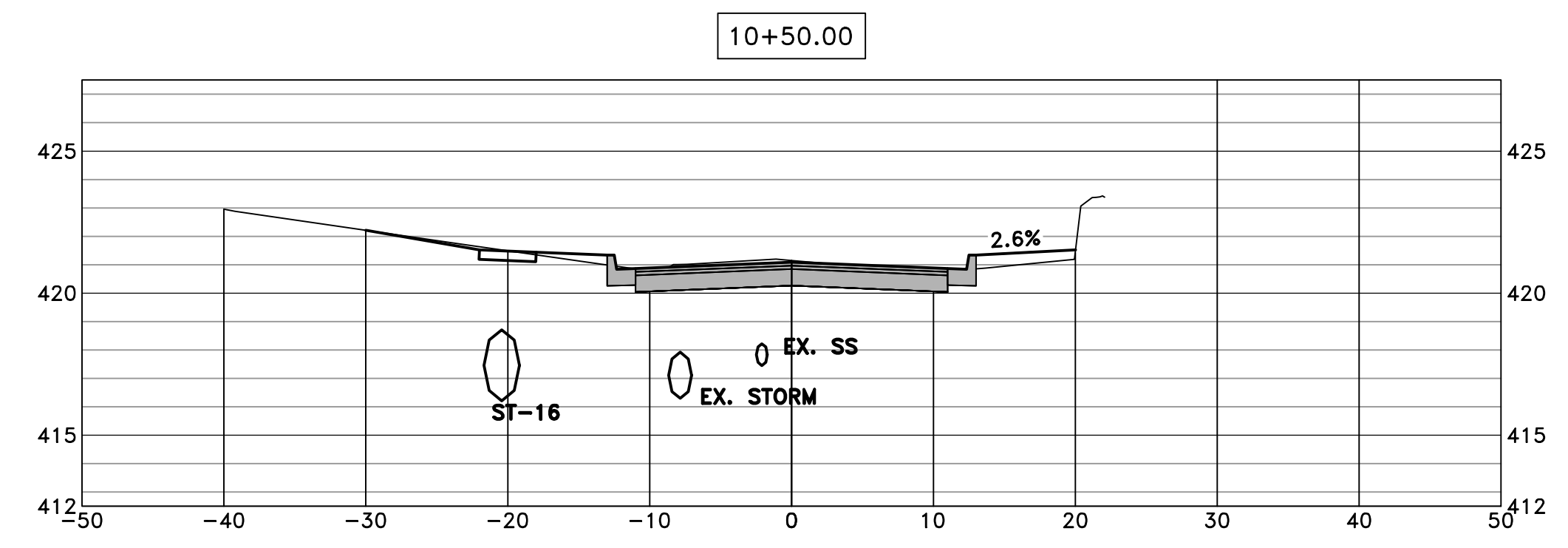
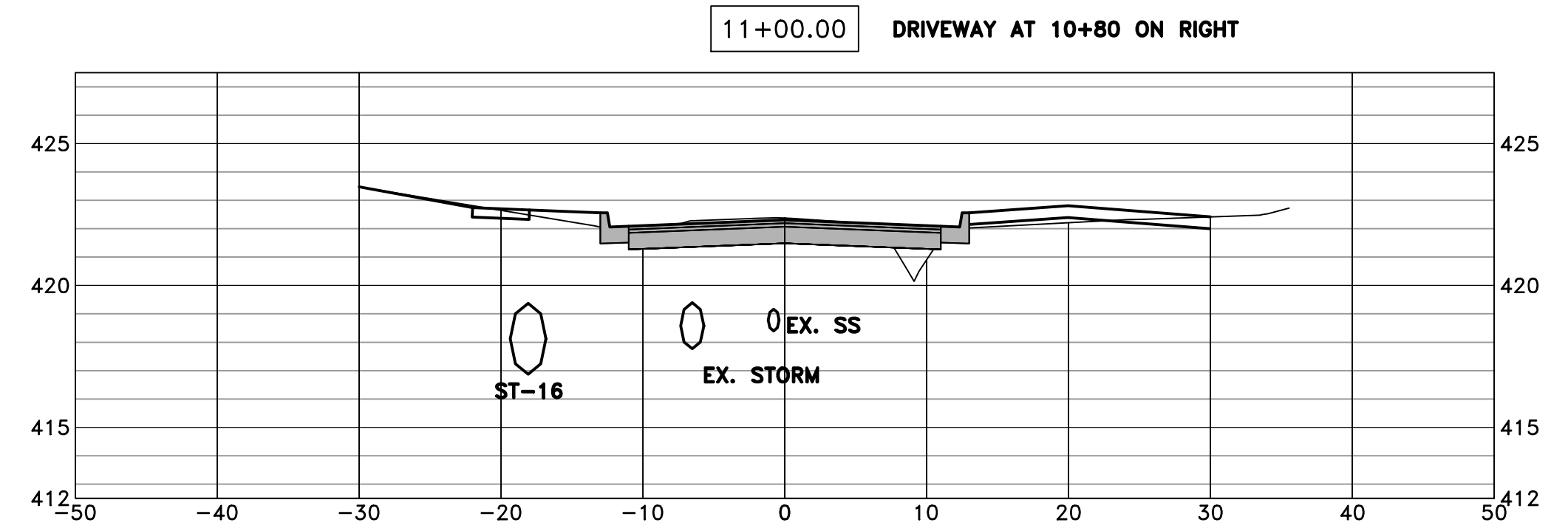


DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



10-27-17

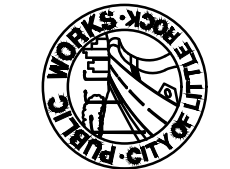
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DESIGNED KDV
CHECKED VW
DATE 10-27-2017
SCALE 1"=10' HZ : 1"=5' VT
PROJECT NO. CLR #16-3-ST-64
SHEET NO. C12



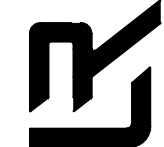


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 CROSS SECTIONS - F STREET



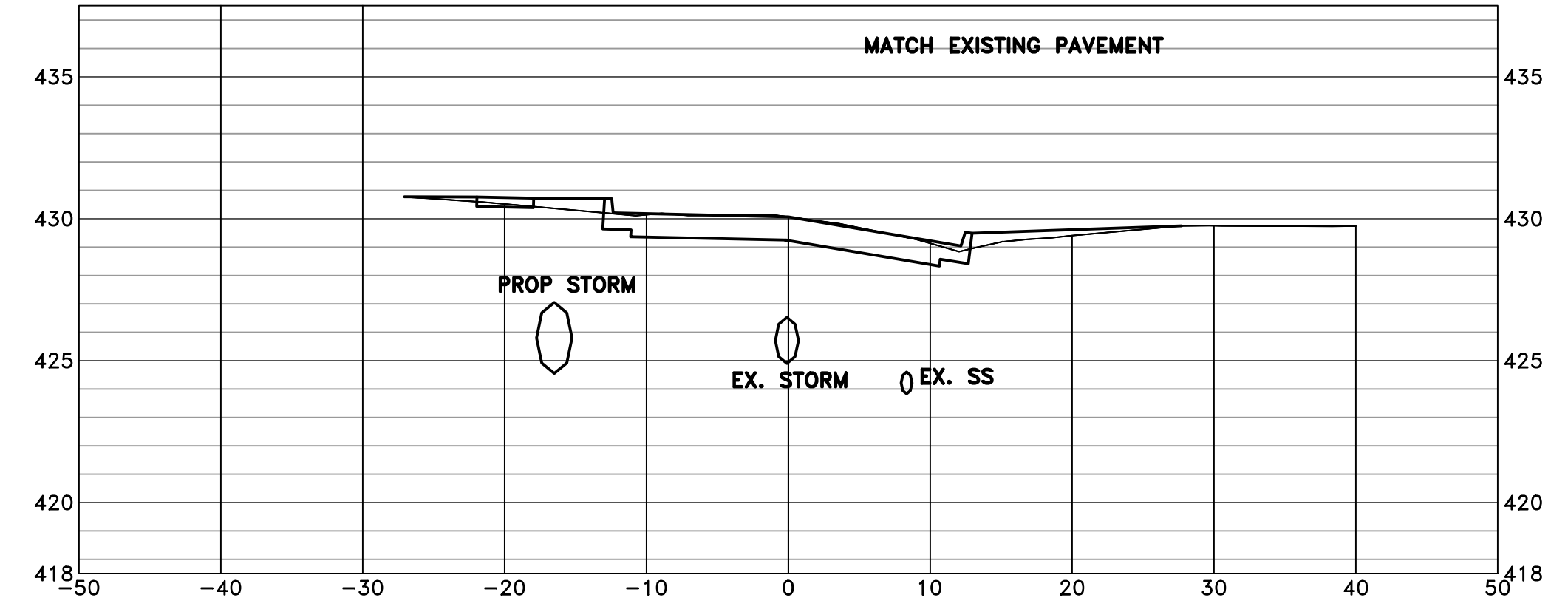
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



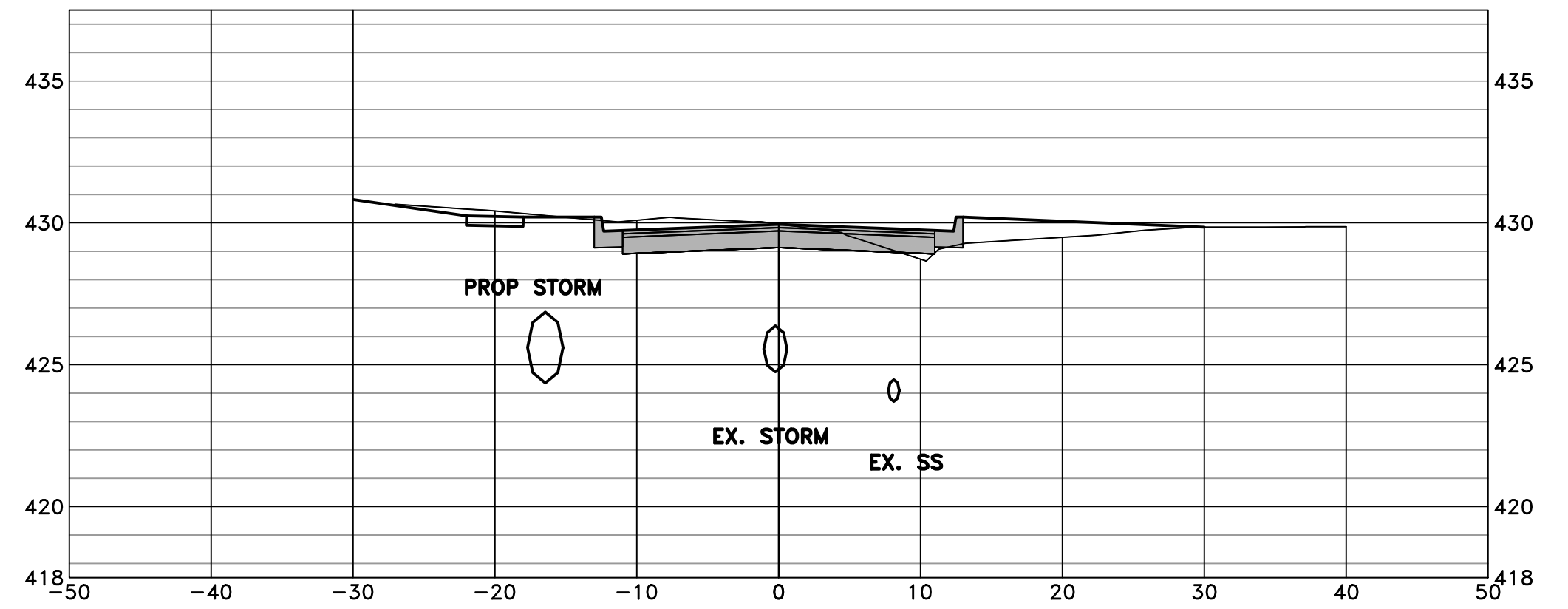

STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 7896  
 KELLY D. VANLANDINGHAM  
 10-27-17

DRAWN BY AV
DESIGNED KDV
CHECKED VW
DATE 10-27-17
SCALE 1"=10' HZ : 1"=5' VT
PROJECT NO. CLR #16-3-ST-64
SHEET NO. C13

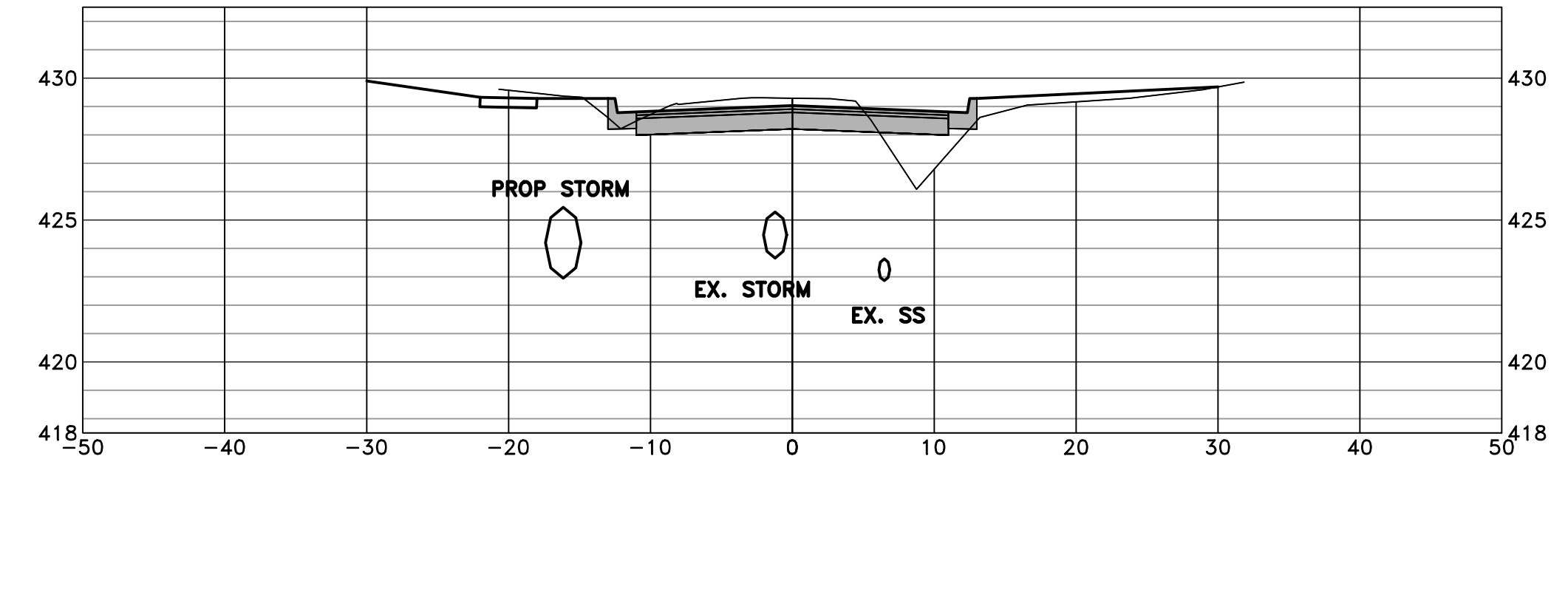
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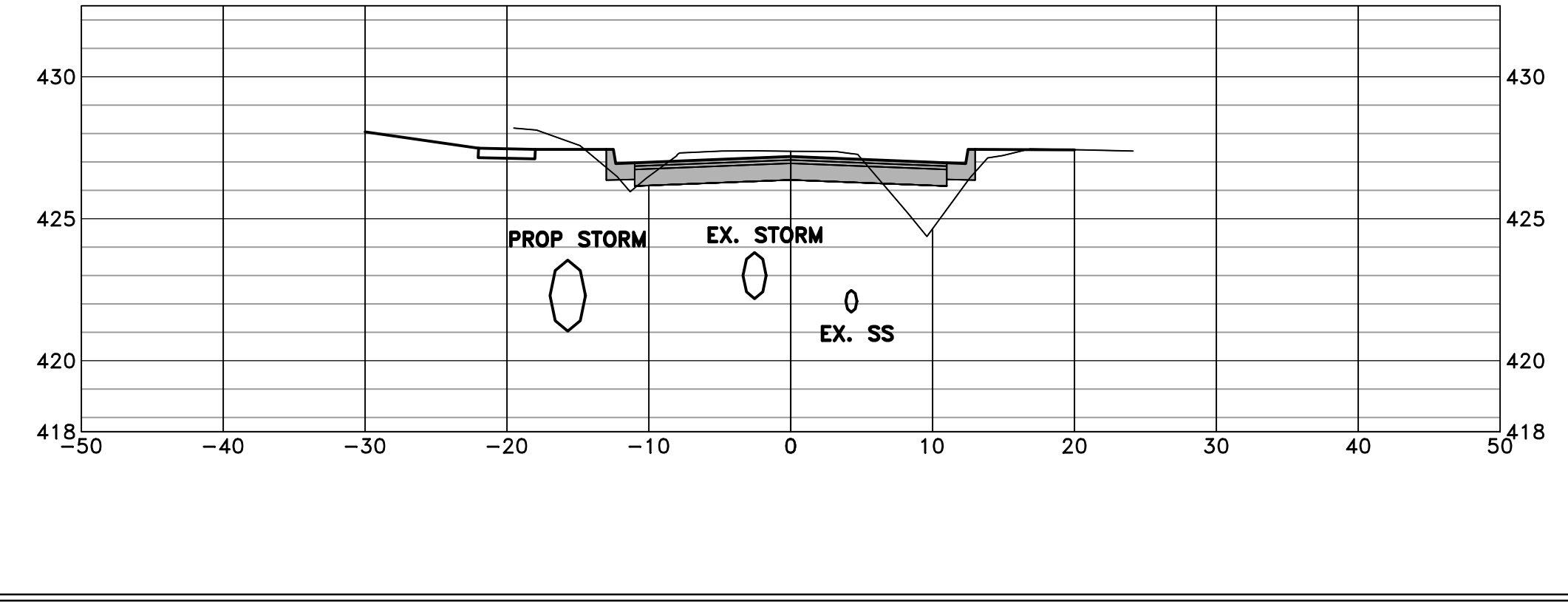
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13+00.00



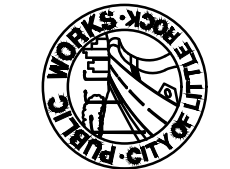
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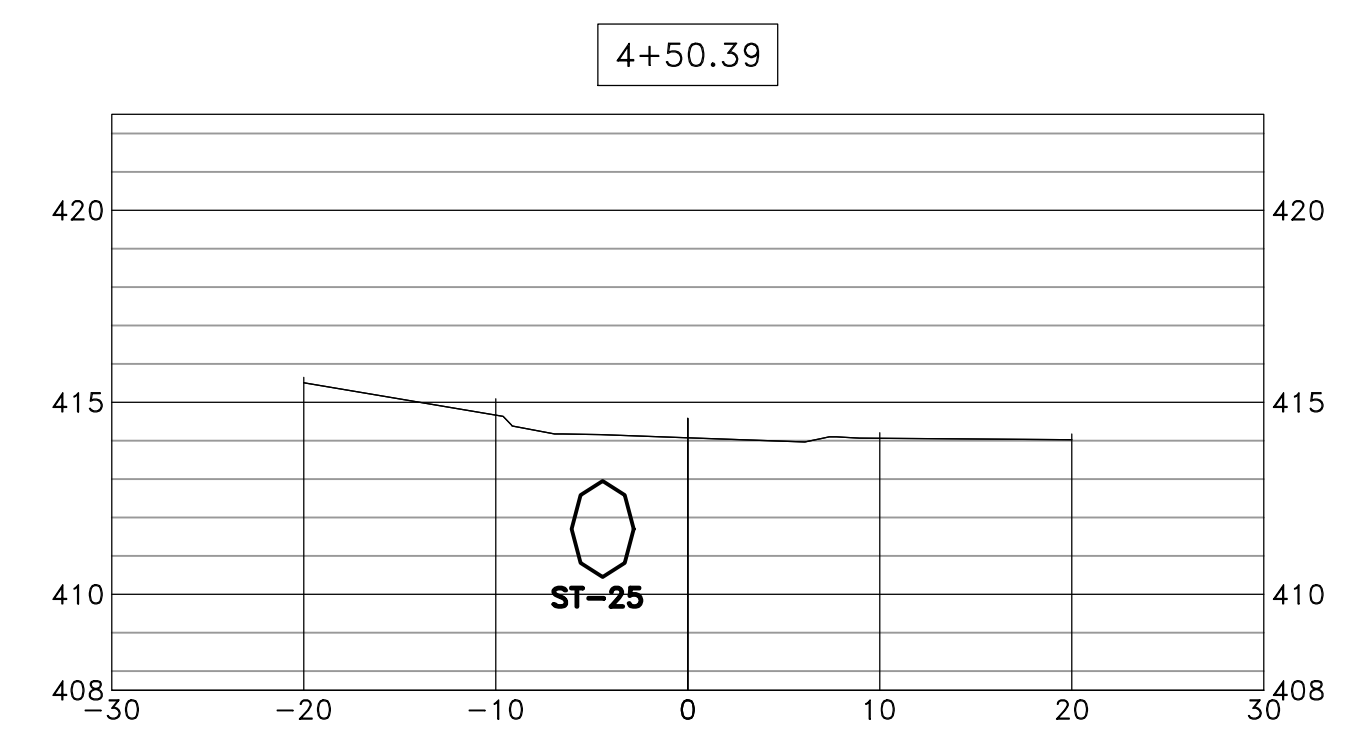
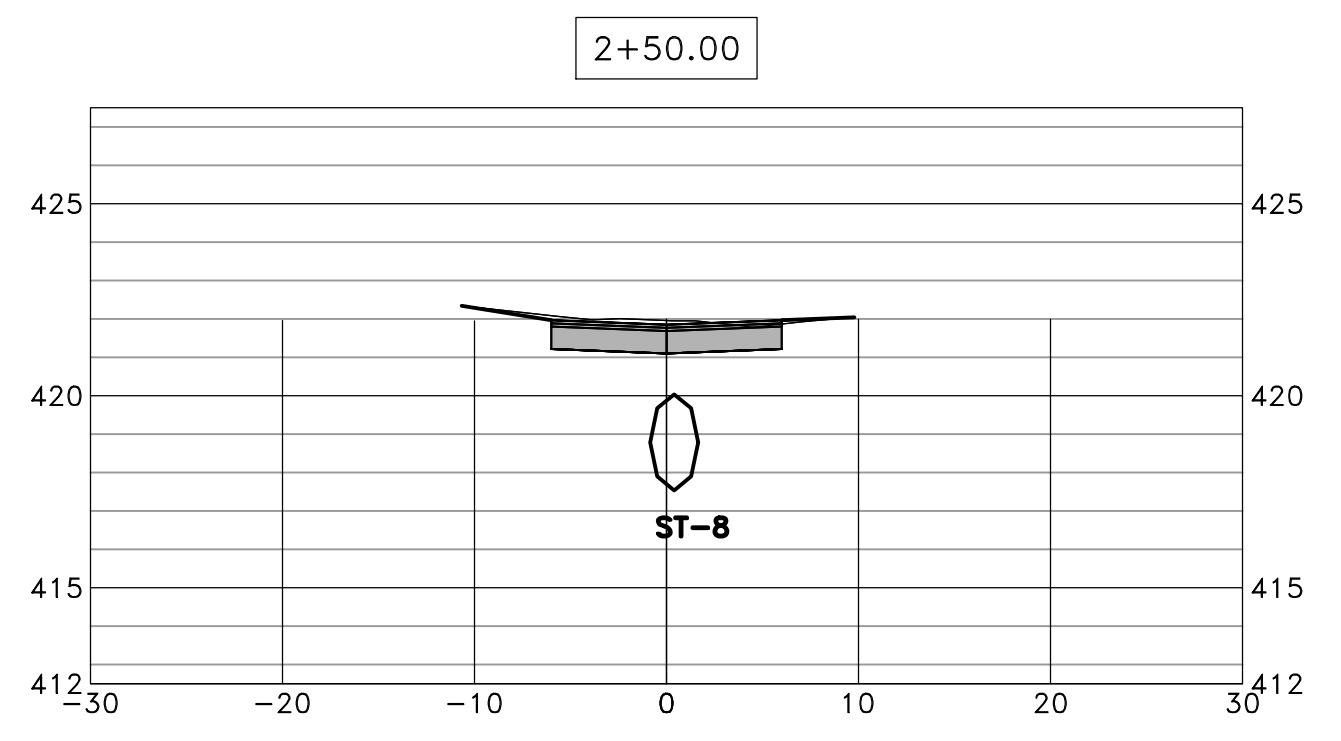
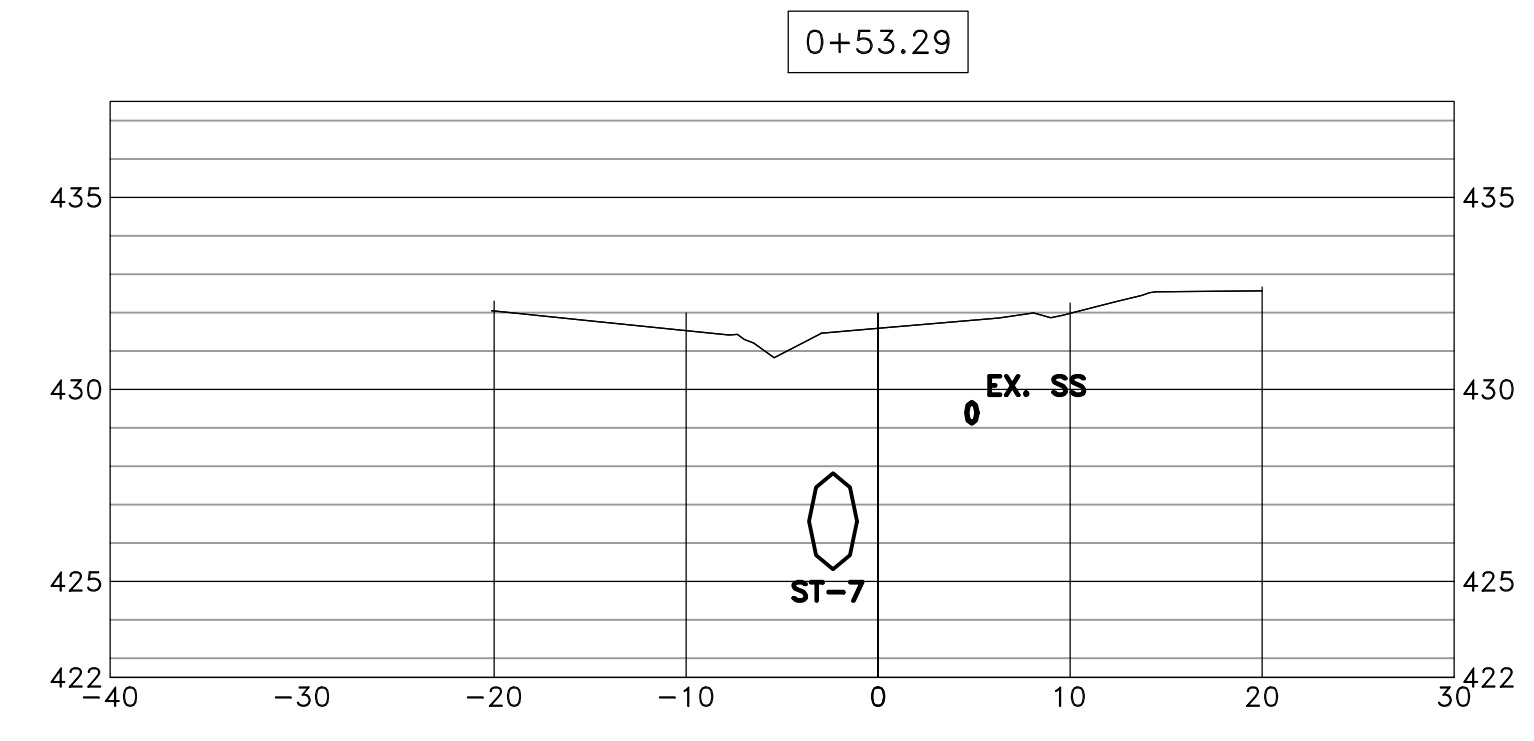
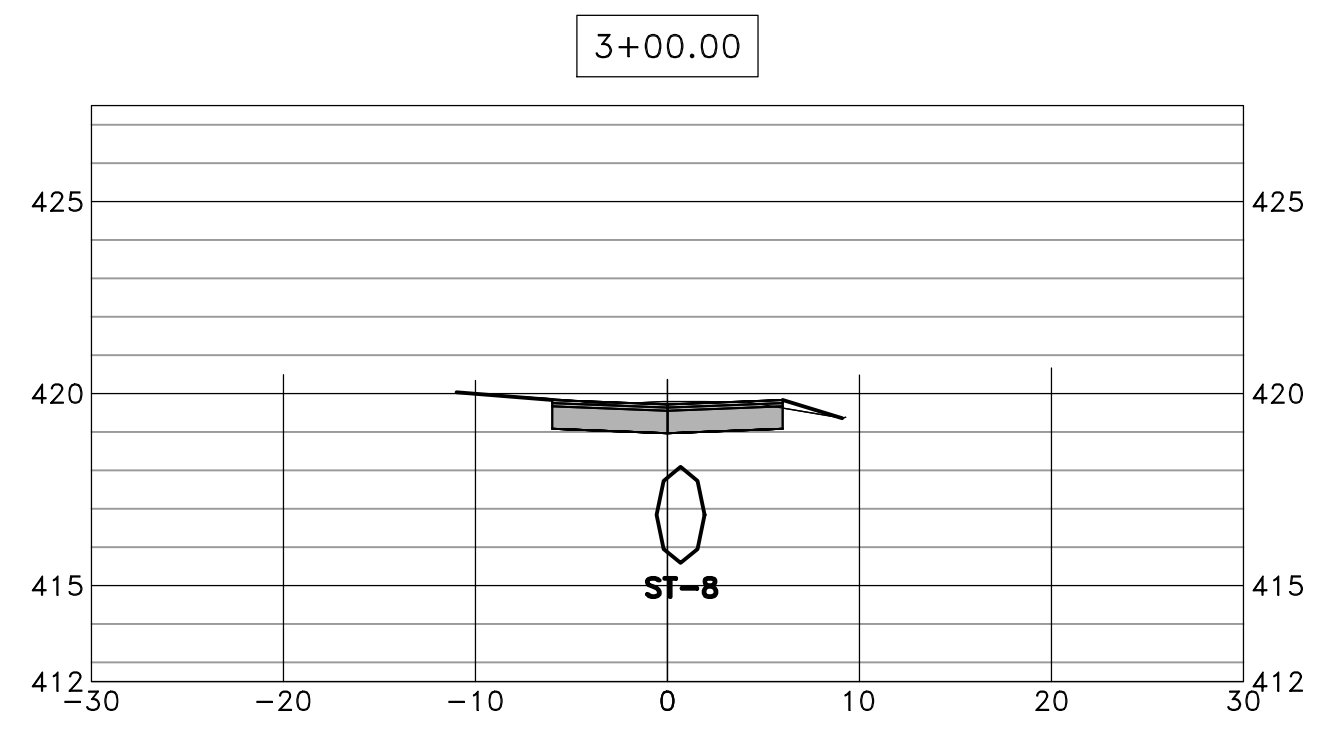
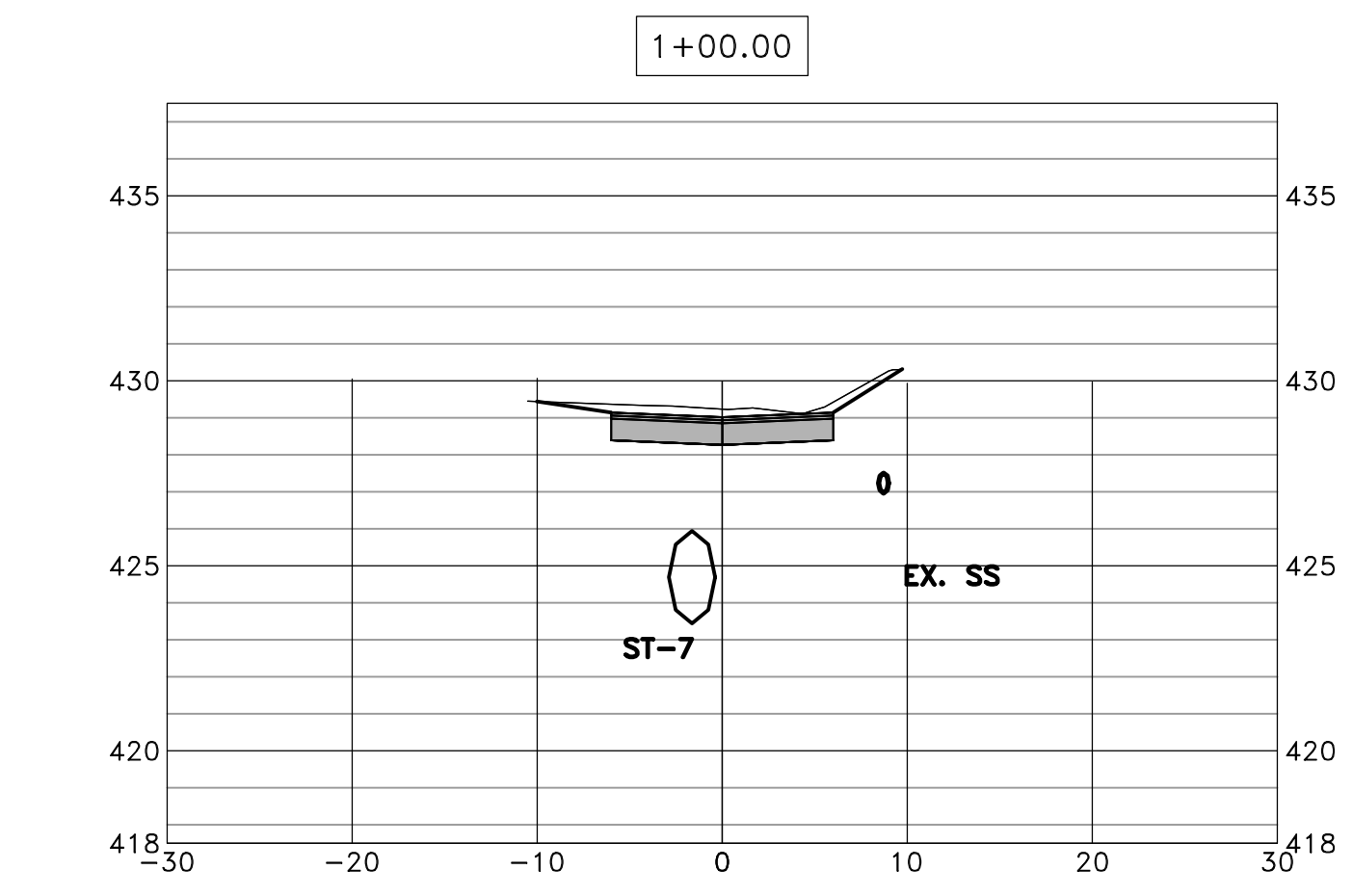
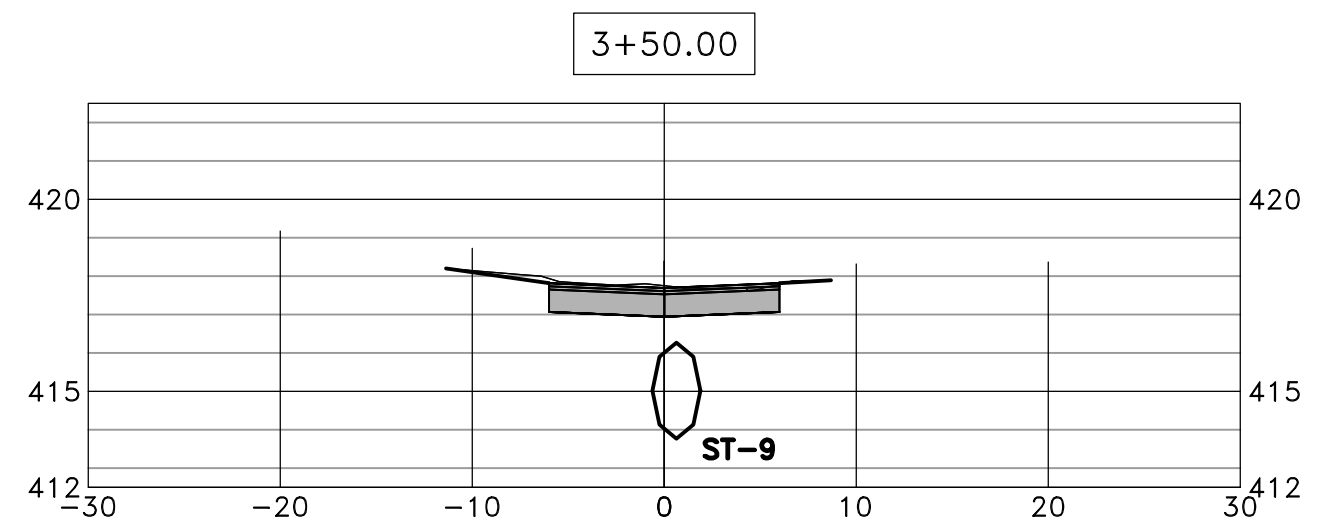
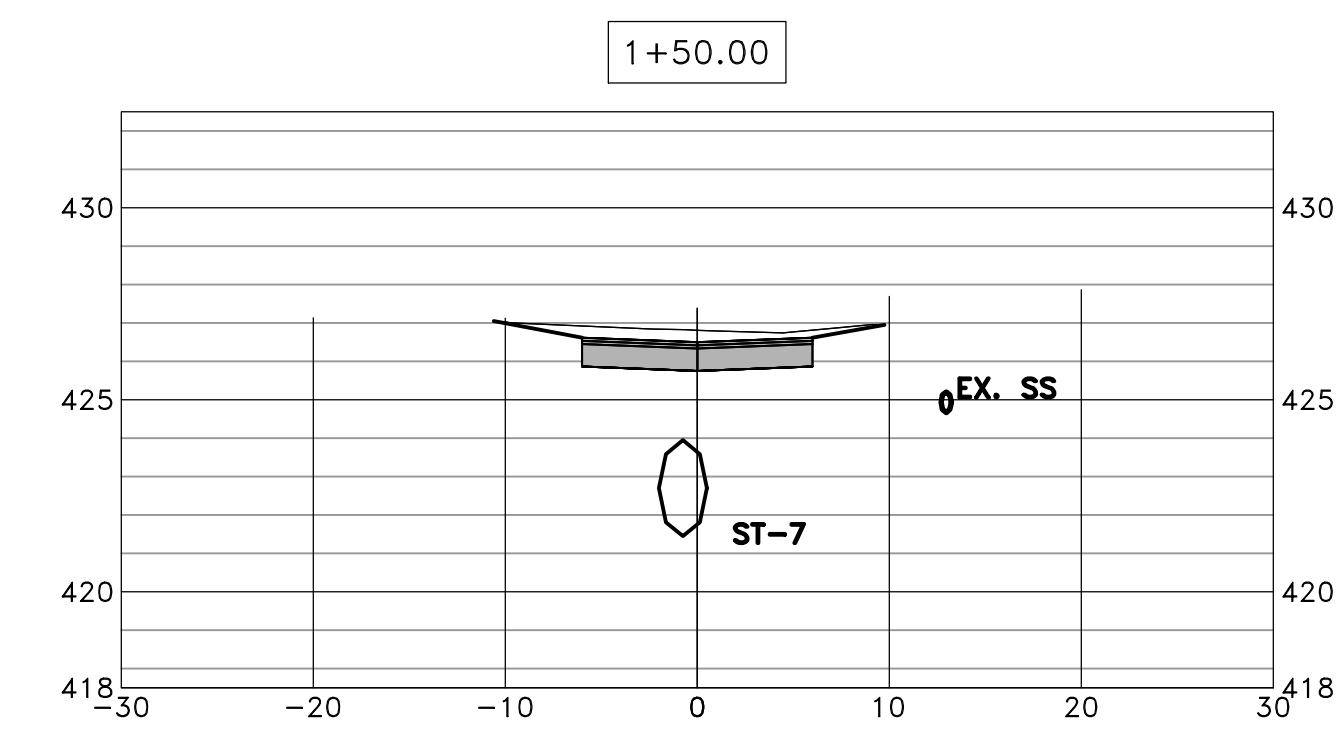
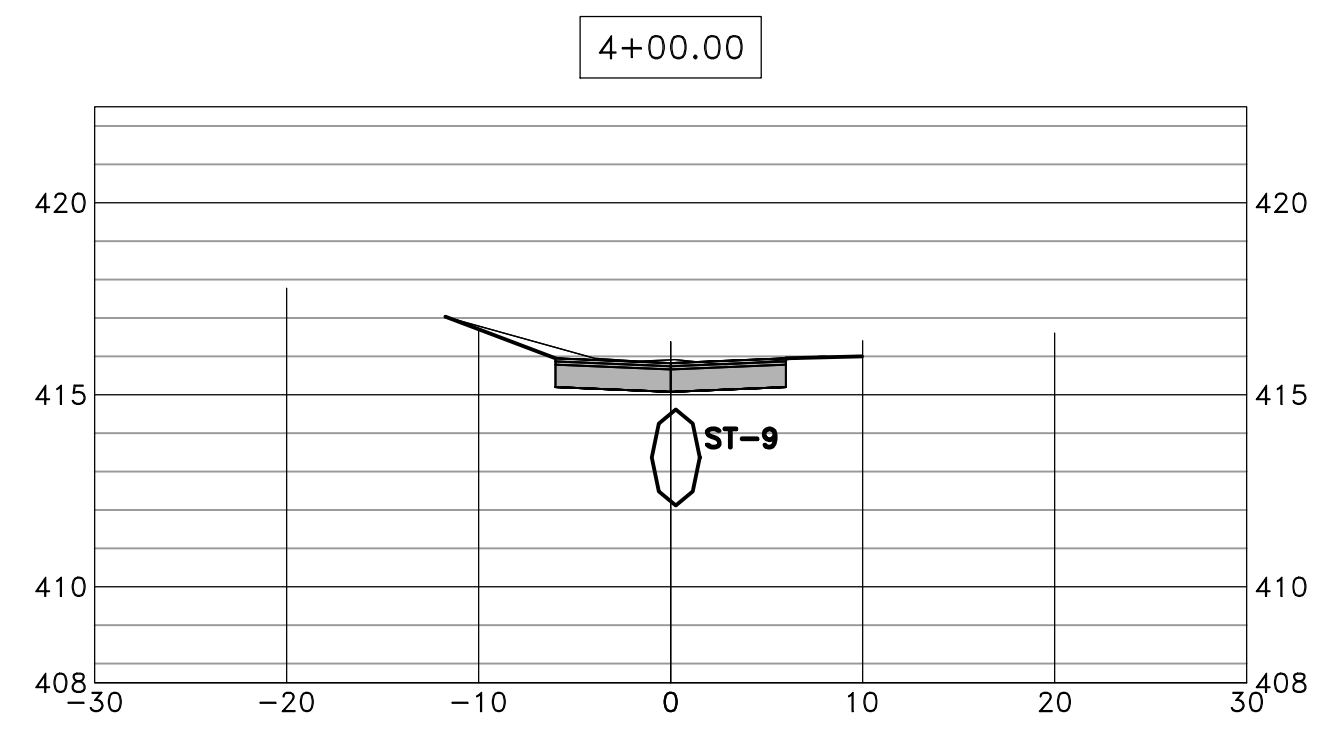
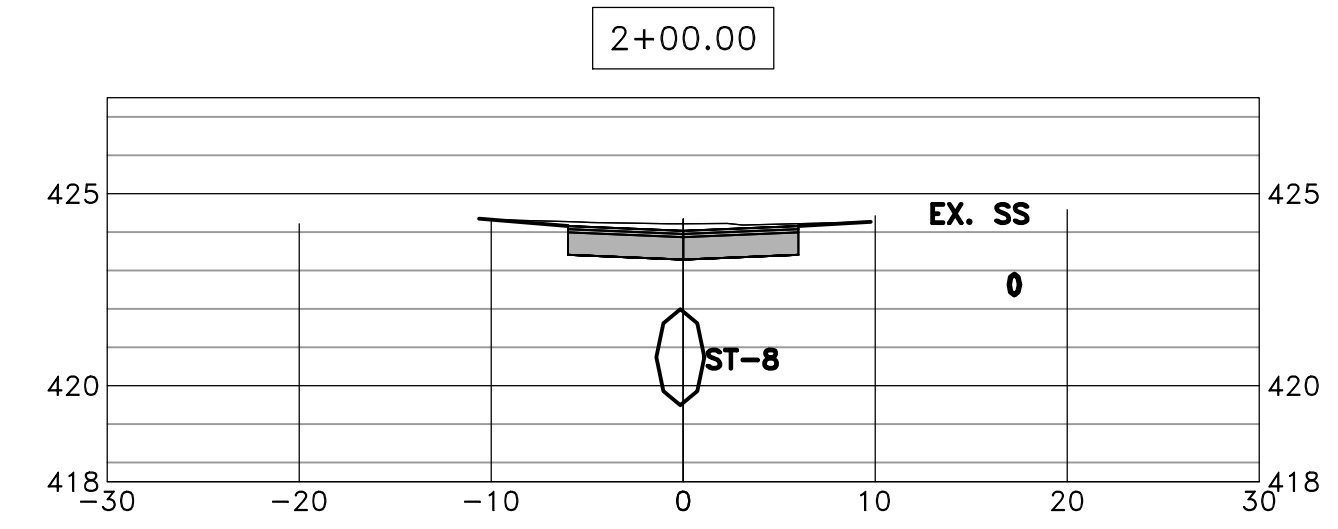
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 CROSS SECTIONS - ALLEY BETWEEN G AND F ST

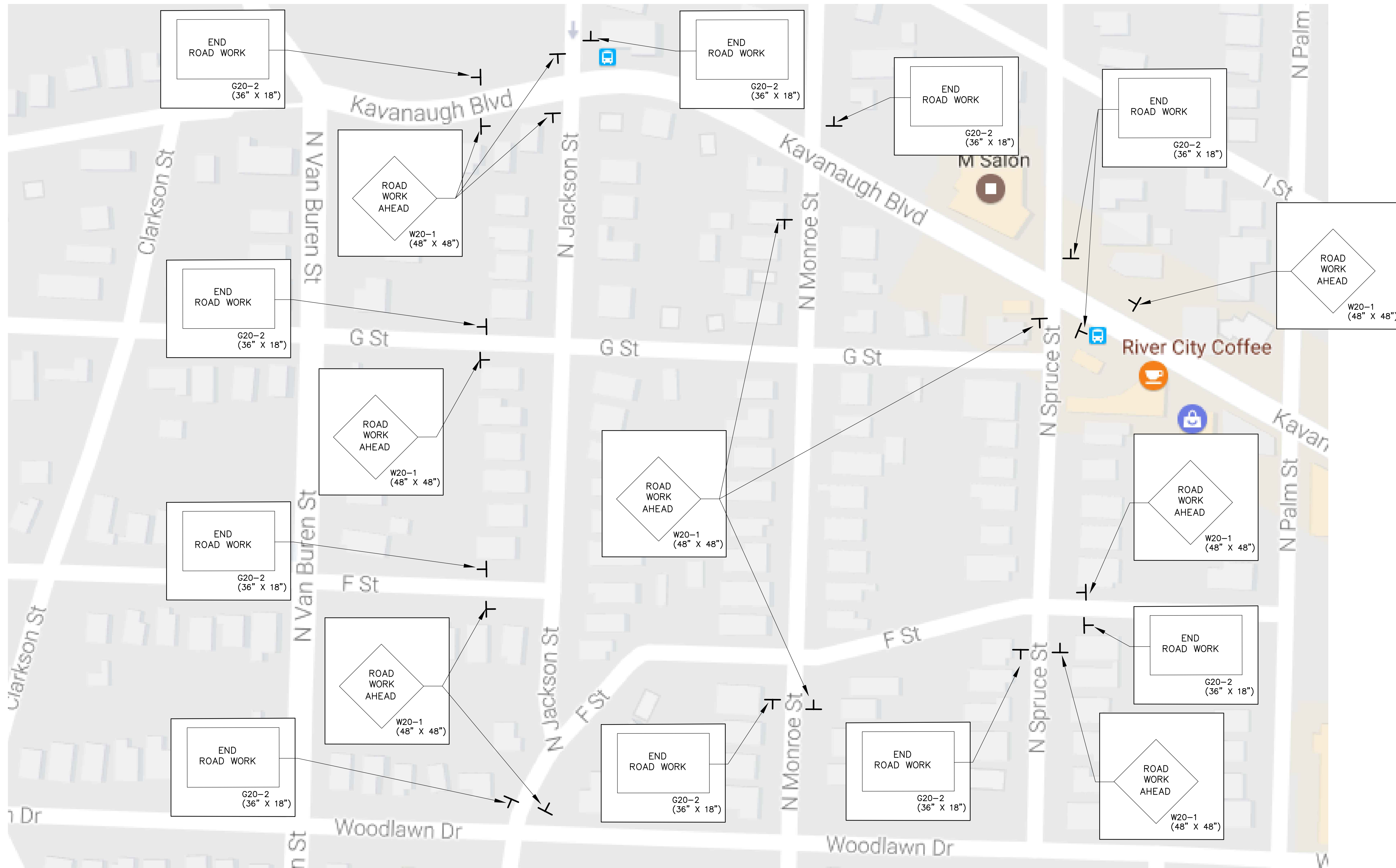
  
 DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 7896  
 KELLY D. VANLANDINGHAM  
 10-27-17

DRAWN BY AV  
 DESIGNED KDV  
 CHECKED VW  
 DATE 10-27-2017  
 SCALE 1"=10' HZ : 1"=5' VT  
 PROJECT NO. CLR #16-3-ST-64  
 SHEET NO. C14



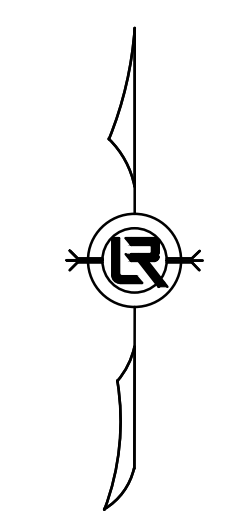




**MAINTENANCE OF TRAFFIC NOTES:**

1. WITHIN CONSTRUCTION LIMITS CONTRACTOR SHALL:

- \* IN GENERAL, INSTALL DRAINAGE CULVERT MAINTAINING THE FLOW OF TRAFFIC.
- \* MAINTAIN CONTINUOUS VEHICULAR ACCESS TO ALL RESIDENCES.
- \* PROVIDE, INSTALL, AND MAINTAIN (INCLUDING RELOCATION AS NEEDED) ALL TRAFFIC CONTROL DEVICES.



REVISIONS	DATE

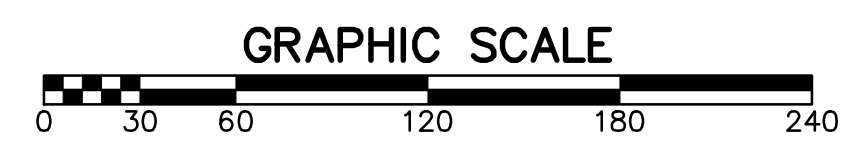
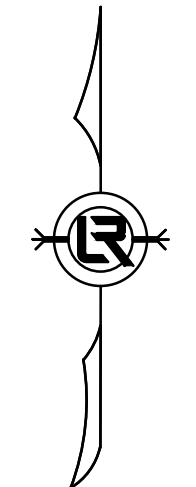
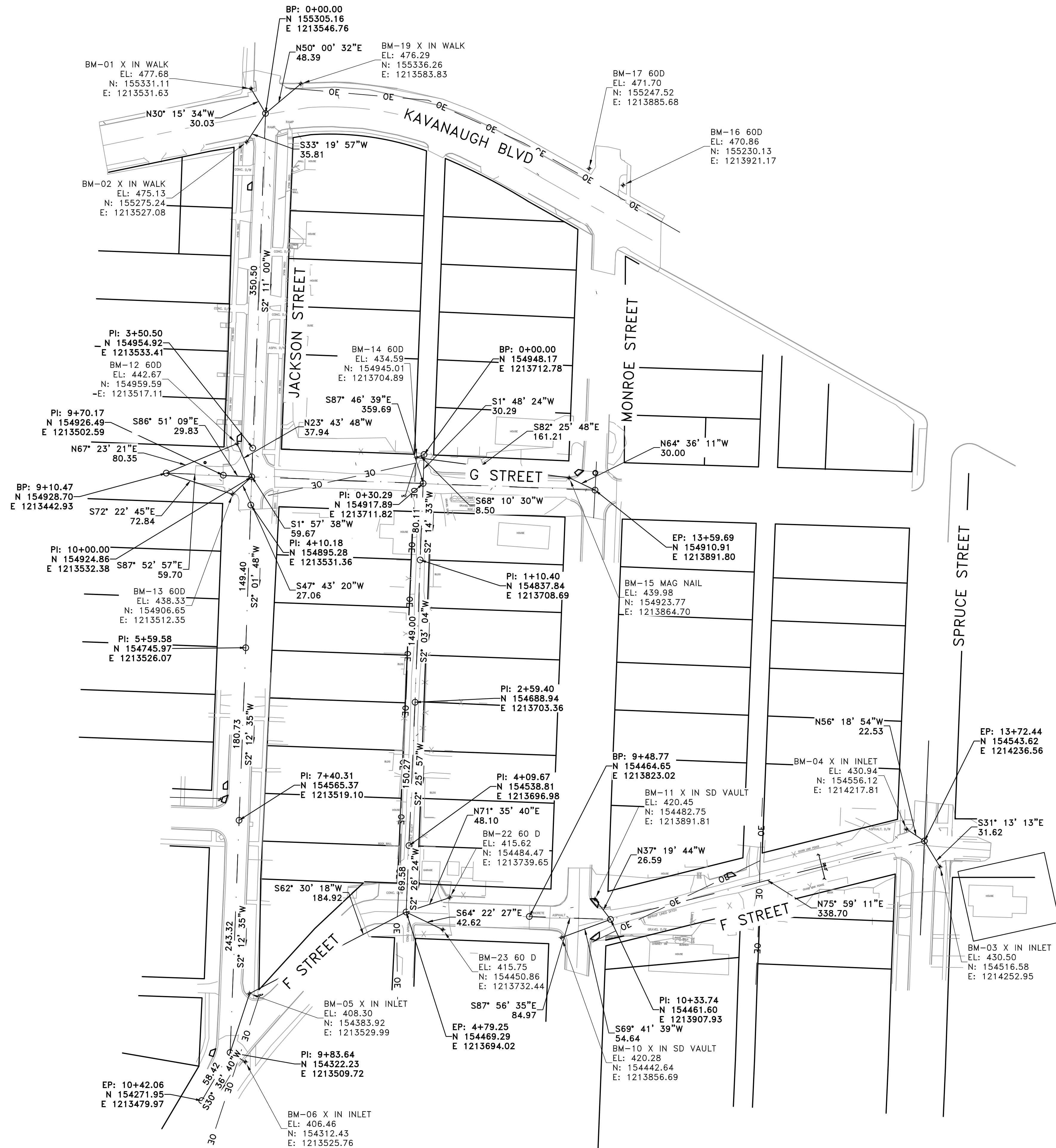
CITY OF LITTLE ROCK, ARKANSAS  
**KAVANAUGH BLVD DRAINAGE**  
 MAINTENANCE OF TRAFFIC PLAN

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

STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 \*\*\*  
 NO. 7996  
 KELLY D. VANLANDINGHAM  
 10-27-17

<b>DRAWN BY</b> KDV/NC
<b>DESIGNED</b> KDV/NC
<b>CHECKED</b> VJW
<b>DATE</b> 10-27-2017
<b>SCALE</b> N.T.S.
<b>PROJECT NO.</b> CLR #16-3-ST-64
<b>SHEET NO.</b> C15





REVISIONS	DATE

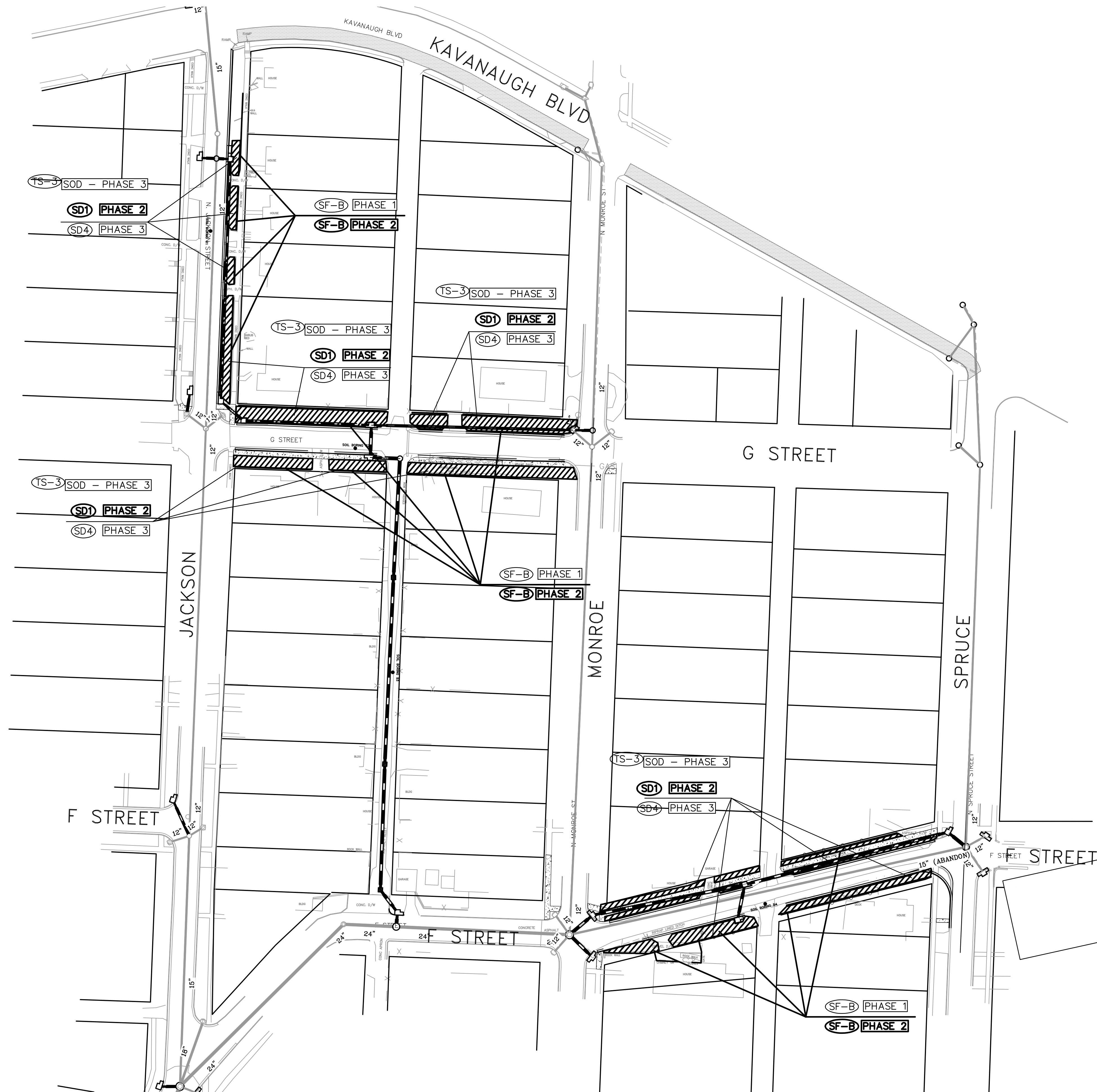
CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 CENTERLINE TIE MAP

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

10-27-17

DRAWN BY  
 KDV/NC  
 DESIGNED  
 KDV/NC  
 CHECKED  
 VJW  
 DATE  
 10-27-2017  
 SCALE  
 1"=60'  
 PROJECT NO.  
 CLR #16-3-ST-64  
 SHEET NO.  
**C16**





**PHASING LEGEND**

PHASE 1 (INITIAL STRIP AND DEMOLITION)
PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)
PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)

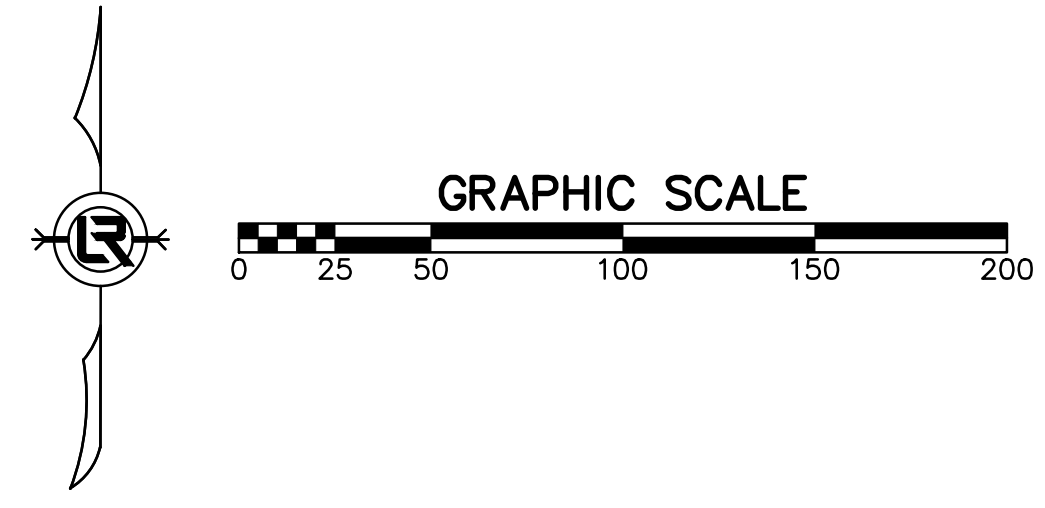
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**KAVANAUGH BLVD DRAINAGE**  
 EROSION CONTROL

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

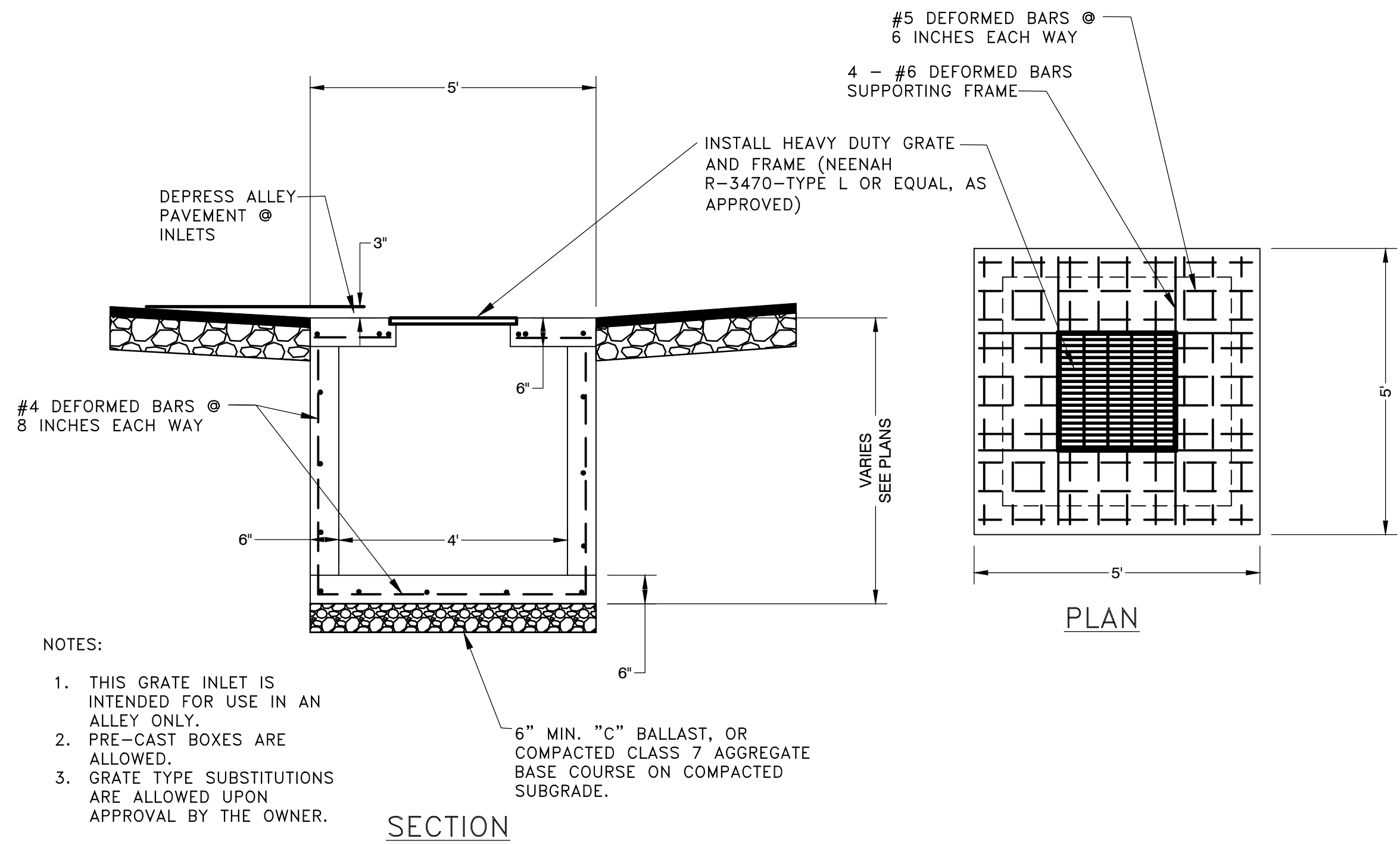
STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 7896  
 VANLANDING, KYLE  
 10-27-17

DRAWN BY  
 KDV  
 DESIGNED  
 KDV/NC  
 CHECKED  
 VJW  
 DATE  
 10-27-2017  
 SCALE  
 1"=60'  
 PROJECT NO.  
 CLR #16-3-ST-64  
 SHEET NO.  
**C17**

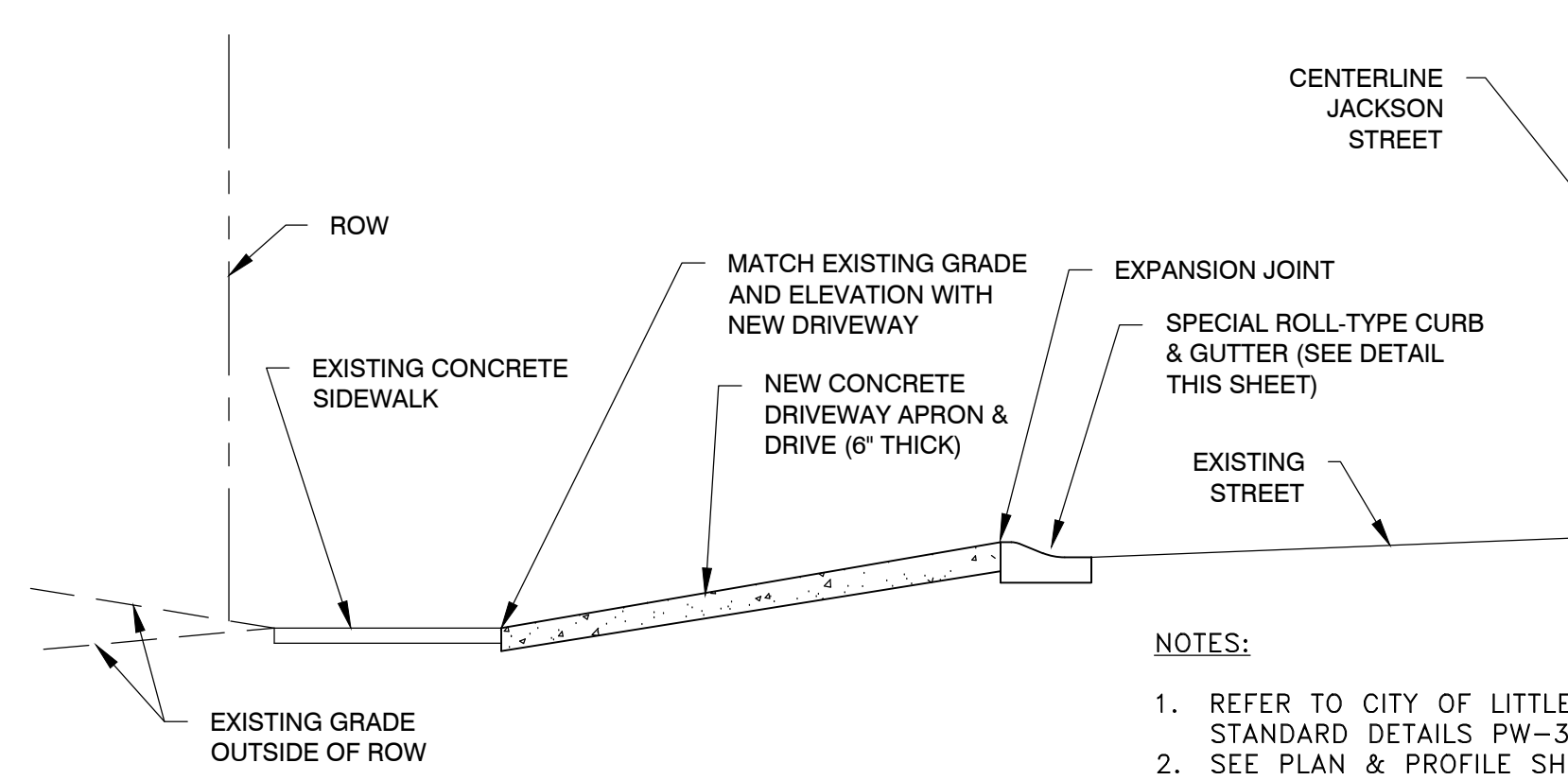




REVISIONS	DATE

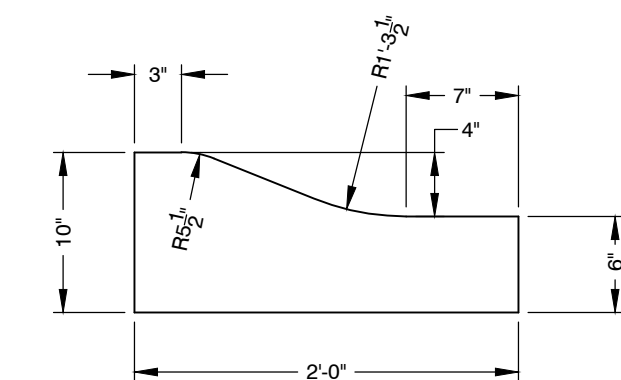


**GRATE INLET DETAIL**  
SCALE: 1/2" = 1'-0"



**SPECIAL DRIVEWAY DETAIL JACKSON STREET**  
SCALE: 1/4" = 1'-0"

- NOTES:
1. REFER TO CITY OF LITTLE ROCK STANDARD DETAILS PW-30 & 31.
  2. SEE PLAN & PROFILE SHEETS AND THE DRIVEWAY PROFILES SHEET IN PLANS FOR LOCATION AND SLOPES OF DRIVES.
  3. SEE SPECIAL ROLL-TYPE CURB & GUTTER DETAIL THIS SHEET



**SPECIAL ROLL-TYPE CURB & GUTTER (FOR JACKSON STREET)**  
SCALE: 1" = 1'-0"

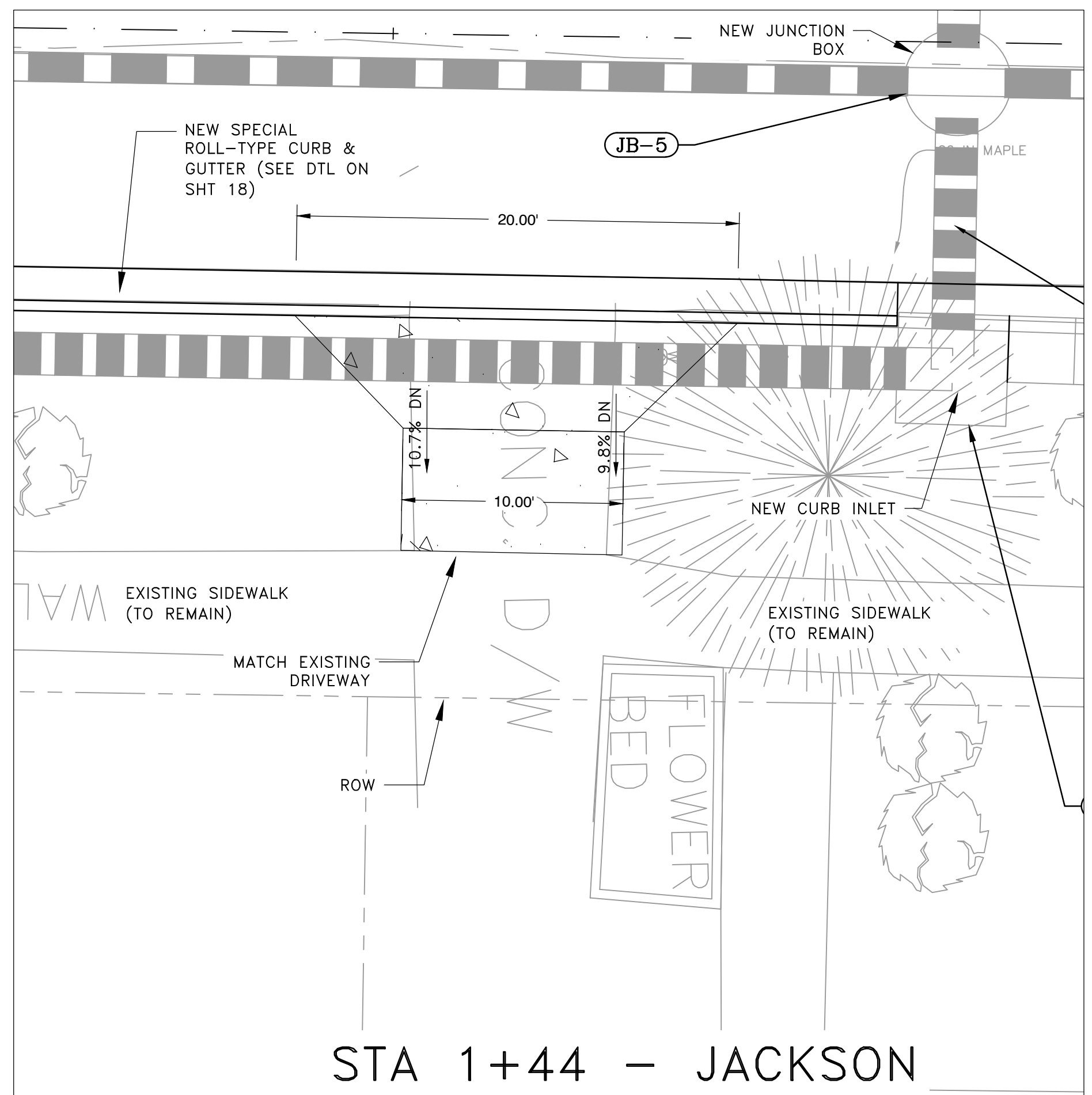
CITY OF LITTLE ROCK, ARKANSAS  
KAVANAUGH BLVD DRAINAGE  
MISCELLANEOUS DETAILS

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

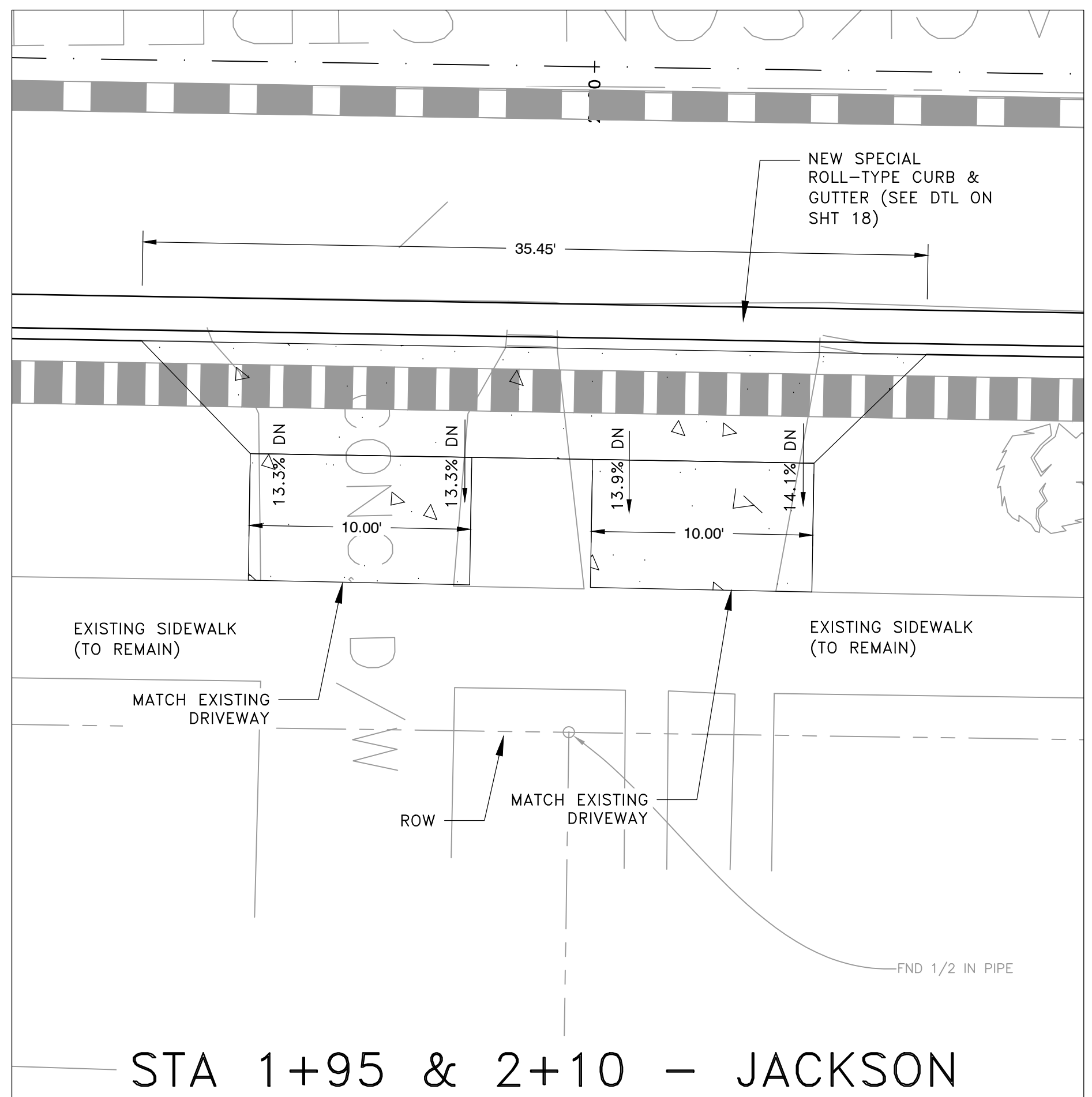
STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
NO. 7896  
J. VANLANDINGHAM  
10-27-17

DRAWN BY  
KDV  
DESIGNED  
KDV  
CHECKED  
VW/NC  
DATE  
10-27-2017  
SCALE  
AS SHOWN  
PROJECT NO.  
CLR #16-3-ST-64  
SHEET NO.  
C18

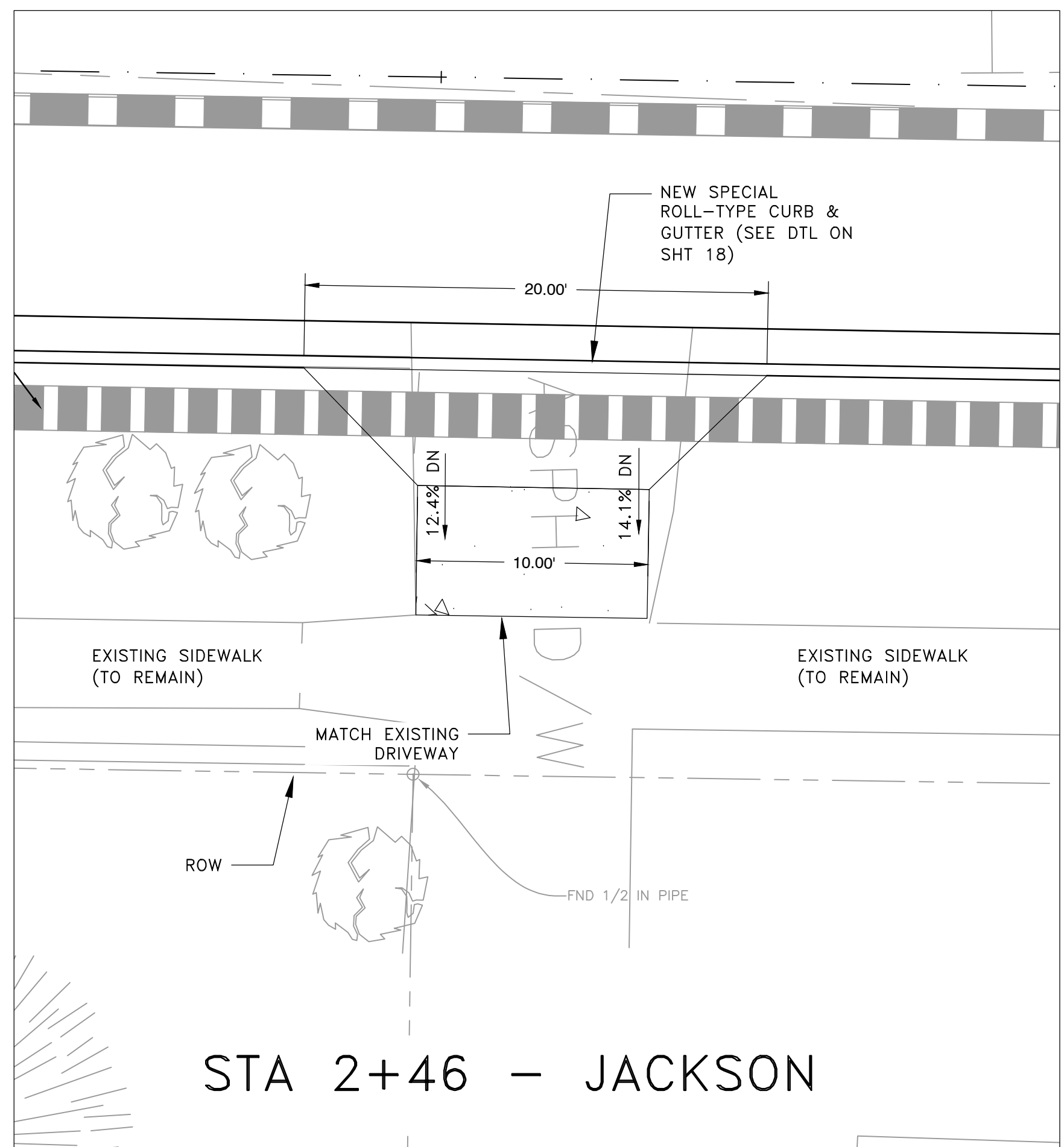




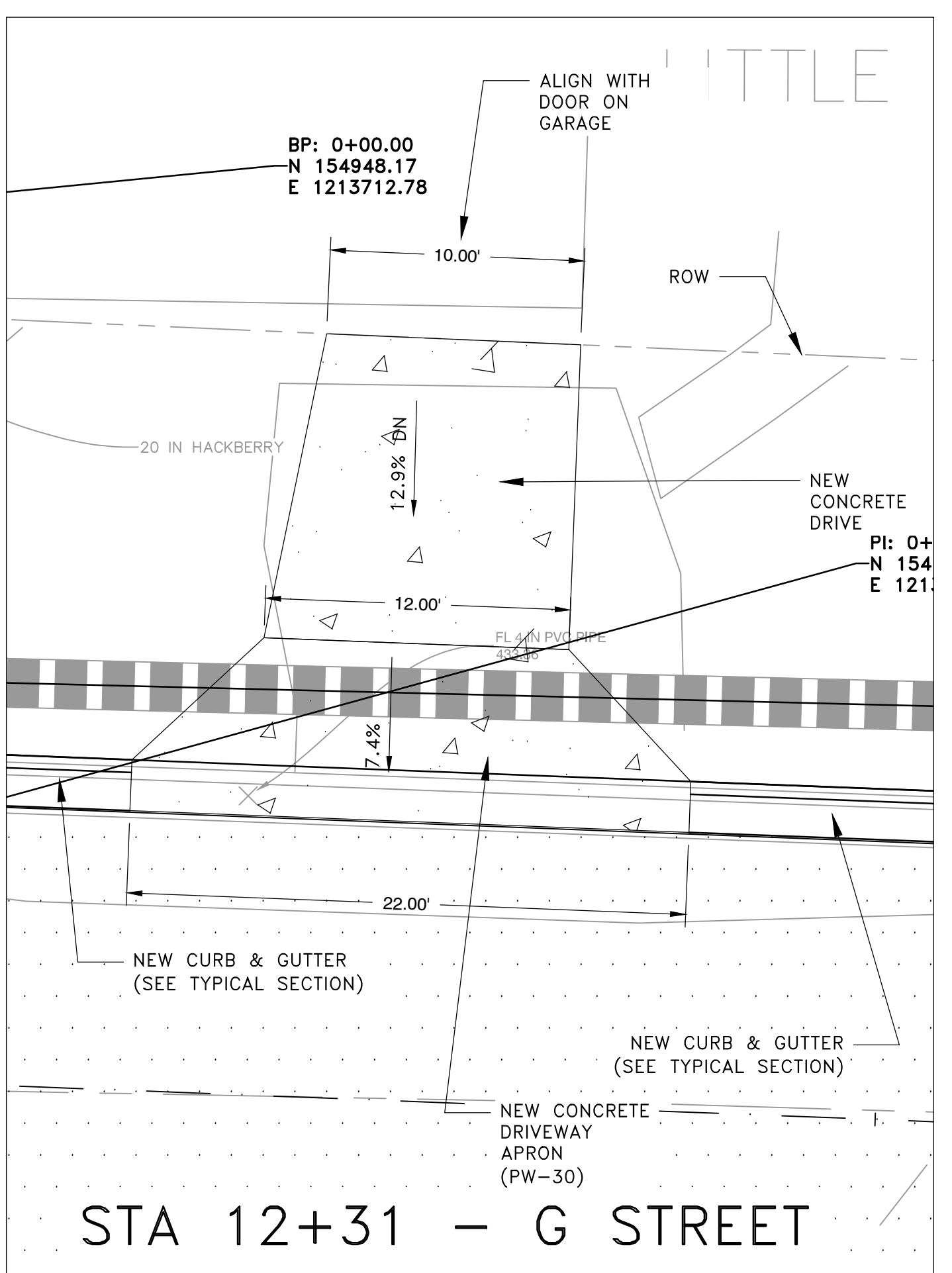
STA 1+44 - JACKSON



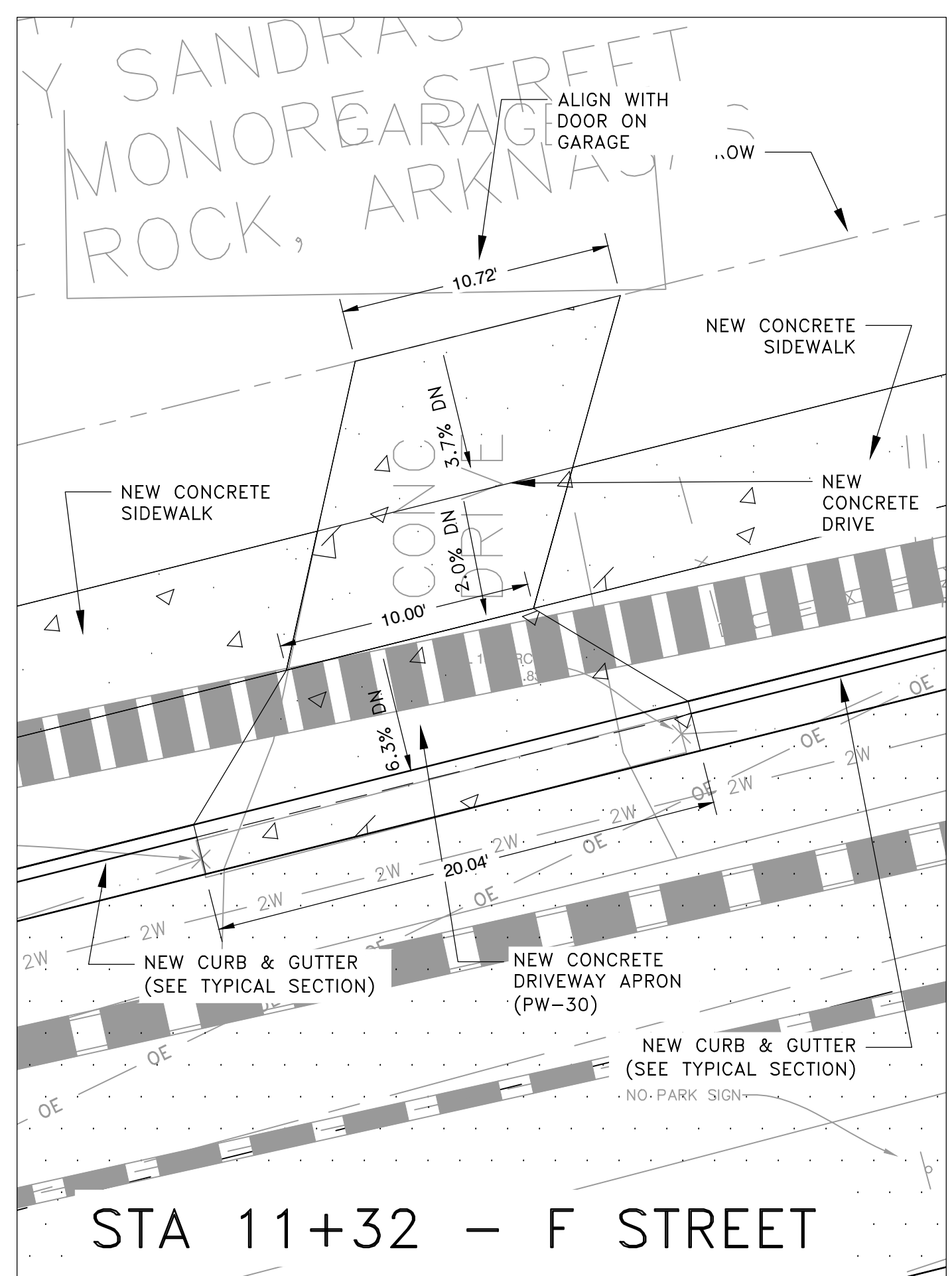
STA 1+95 & 2+10 - JACKSON



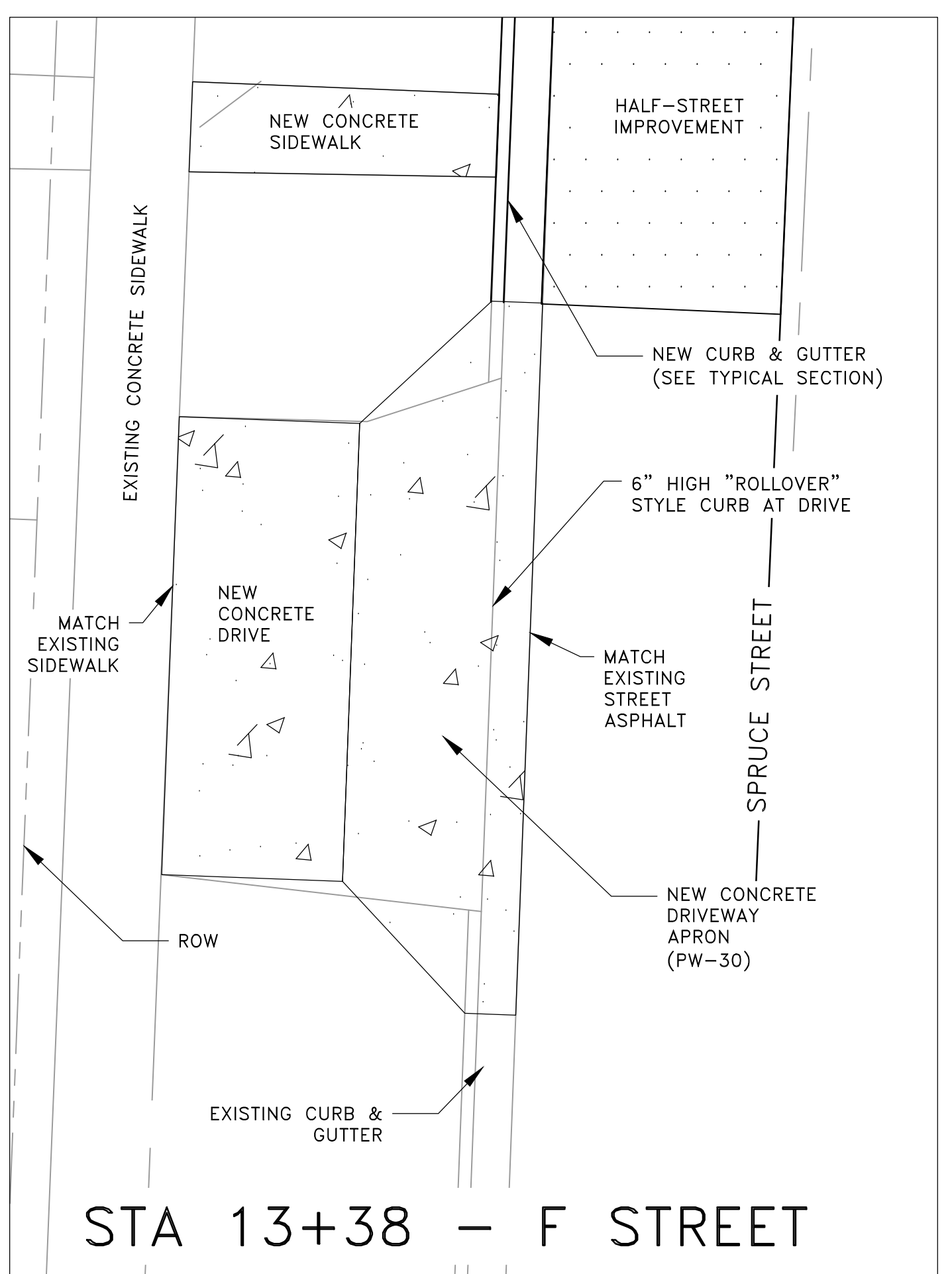
STA 2+46 - JACKSON



STA 12+31 - G STREET



STA 11+32 - F STREET



STA 13+38 - F STREET

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KAVANAUGH BLVD DRAINAGE  
 DRIVEWAY PROFILES

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

REGISTERED PROFESSIONAL ENGINEER  
 KELLY D. VANLANDINGHAM  
 NO. 7996  
 10-27-17

DRAWN BY AV
DESIGNED KDV
CHECKED VW
DATE 10-27-2017
SCALE 1"=5'
PROJECT NO. CLR #16-3-ST-64
SHEET NO. C19