

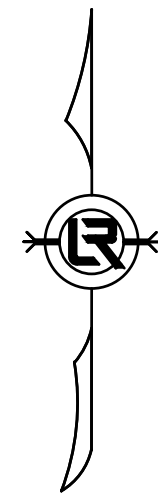
PROJECT LOCATION - WARD 7

# CLR PROJECT 07-17-ST-357

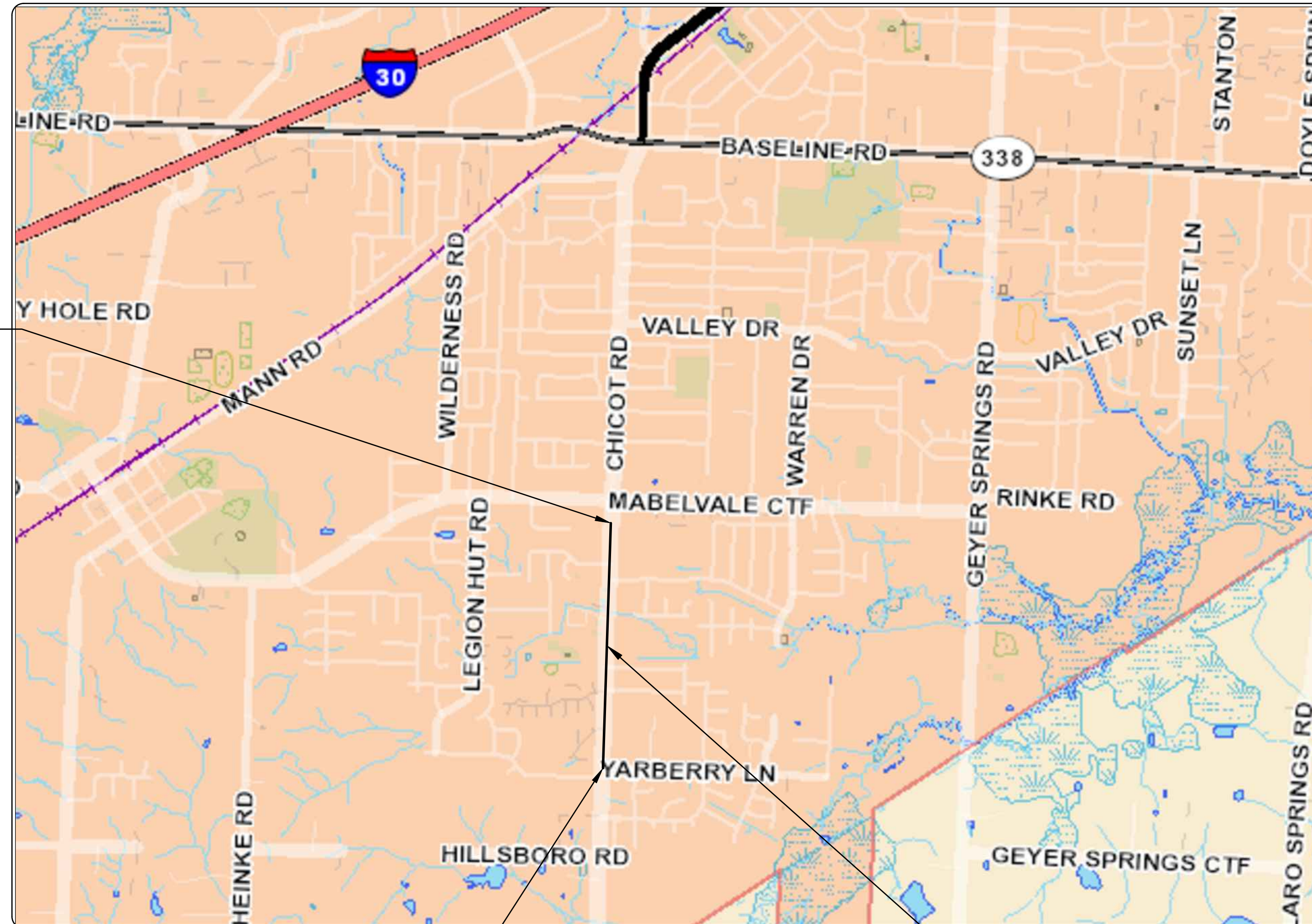
## CHICOT ROAD

### RECONSTRUCTION

(MABELVALE CUT-OFF TO YARBERRY LANE)



PROJECT END  
STATION 39+36



PROJECT START  
STATION 5+00

PROJECT  
LOCATION

**2019-2021**  
**BOND PROGRAM**

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

90% SUBMITTAL

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X7	CROSS SECTIONS (7)
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X11	CROSS SECTIONS (11)
X12	CROSS SECTIONS (12)
X13	CROSS SECTIONS (13)
X14	CROSS SECTIONS (14)
X15	CROSS SECTIONS (15)
X16	CROSS SECTIONS (16)
X17	CROSS SECTIONS (17)

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD STREET RECONSTRUCTION  
COVER SHEET

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

SEAL



Know what's below.  
Call before you dig.

**Michael Baker**  
**INTERNATIONAL**

1400 WEST MARKHAM  
SUITE 204  
LITTLE ROCK, ARKANSAS 72201  
(501) 907-6223

DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	11-15-2019
SCALE	N.T.S.
PROJECT NO.	CLR 07-17-ST-357
SHEET NO.	C1

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION

GENERAL NOTES, LEGEND AND QUANTITIES

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

SEAL

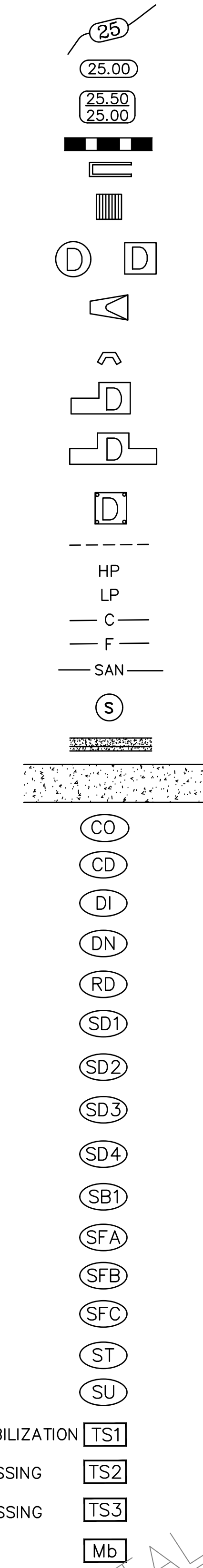
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<b>DESIGNED</b> COF
<b>CHECKED</b> BOL
<b>DATE</b> 11-15-2019
<b>SCALE</b> N.T.S.
<b>PROJECT NO.</b> CLR 07-17-ST-357
<b>SHEET NO.</b> C2

EXISTING

PROPOSED

- 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
- 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 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



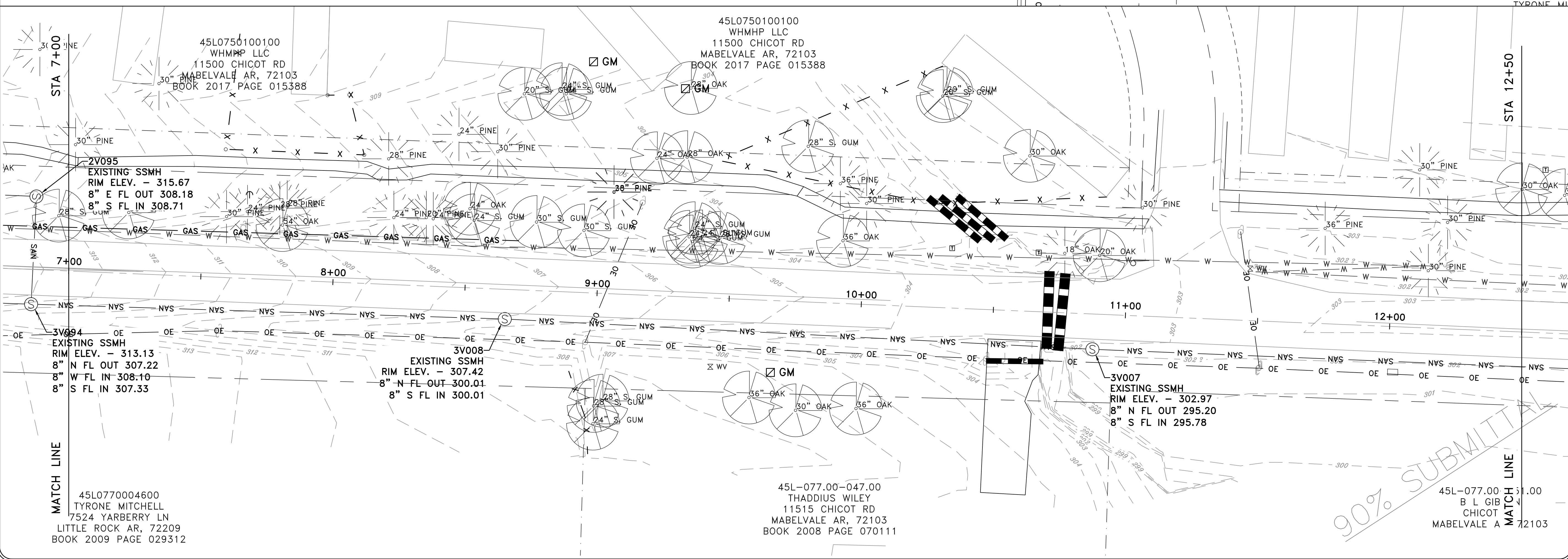
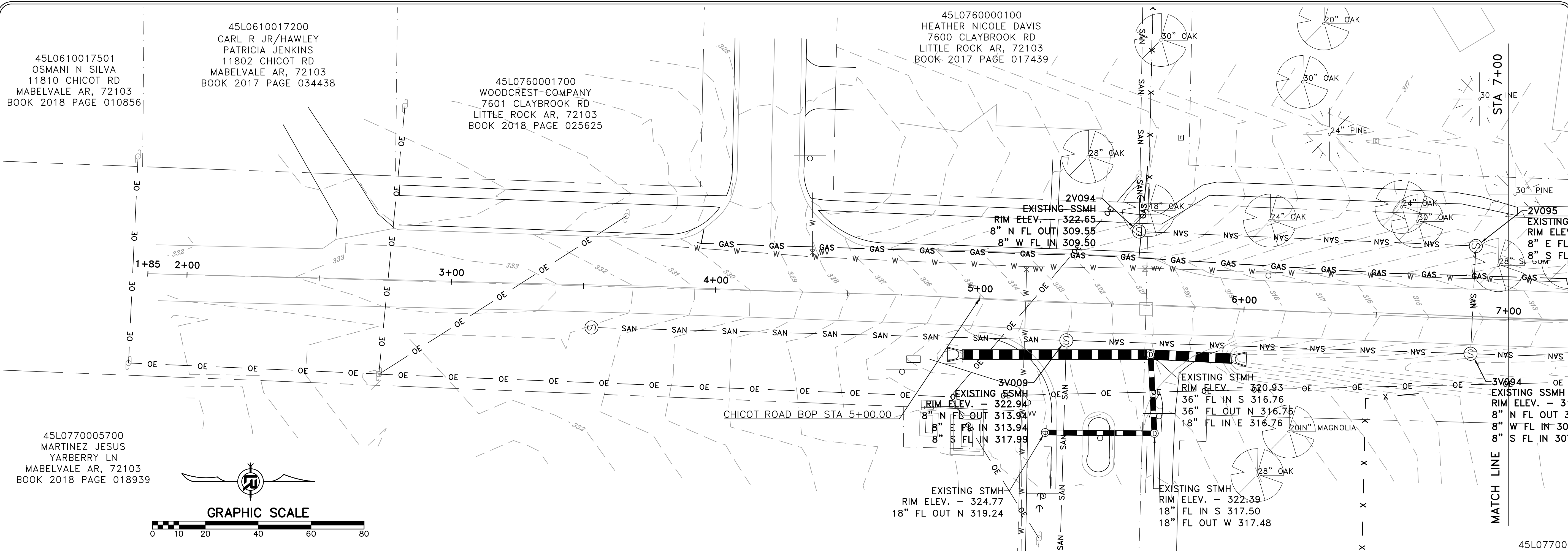
PRICING OF ESTIMATED QUANTITIES			
CLR PROJECT 07-17-ST-357			
CHICOT ROAD RECONSTRUCTION			
BASE BID			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	6500
3.06	BORROW MATERIAL	CY	1900
3.40	TOPSOIL	CY	1176
4.01	AGGREGATE BASE COURSE	CY	2500
5.01	TACK COAT	GAL	2817
6.01	ASPHALT SURFACE COURSE	TON	4892
6.02	ASPHALT BINDER COURSE	TON	836
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	SF	4561
7.18	CONCRETE DRIVEWAY (8" THICK), STANDARD FINISH	SF	906
7.06	ASPHALT DRIVEWAY (2" THICK)	SF	1089
7.08	GRAVEL DRIVEWAY (8" THICK)	SF	1291
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	5500
9.04	CONCRETE SIDEWALK (4" THICK)	SF	25300
10.01	JUNCTION BOX - 4' BOX	EA	1
10.01	JUNCTION BOX - 5' BOX	EA	1
10.02	AREA INLET	EA	1
10.04	CURB INLET - 4' BOX	EA	22
10.05	CURB INLET - 5' BOX	EA	3
10.07	WING 3' EXTENSION	EA	21
10.10	WING 6' EXTENSION	EA	4
10.14	WING 10' EXTENSION	EA	1
11.01	REINFORCED CONCRETE PRECAST BOX CULVERT (3'x2')	LF	21
11.01	REINFORCED CONCRETE PRECAST BOX CULVERT (4'x2' DOUBLE)	LF	100
11.01	REINFORCED CONCRETE PRECAST BOX CULVERT (4'x3')	LF	347
11.01	REINFORCED CONCRETE PRECAST BOX CULVERT (5'x3')	LF	37
11.01	REINFORCED CONCRETE PRECAST BOX CULVERT (5'x3' DOUBLE)	LF	39
11.01	REINFORCED CONCRETE PRECAST HEADWALL	CY	30
11.01	REINFORCED CONCRETE PRECAST WINGWALS	EA	5
11.01	CONCRETE DITCH PAVING (4")	SF	418
13.18C	STORM DRAIN PIPES, 18" (CROSS DRAIN)	LF	400
13.18S	STORM DRAIN PIPES, 18" (SIDE DRAIN)	LF	940
13.24S	STORM DRAIN PIPES, 24" (SIDE DRAIN)	LF	700
13.30S	STORM DRAIN PIPES, 30" (SIDE DRAIN)	LF	60
13.36C	STORM DRAIN PIPES, 36" (CROSS DRAIN)	LF	100
13.36S	STORM DRAIN PIPES, 36" (SIDE DRAIN)	LF	920
14.01	SOLID SODDING, BERMUDA	SY	10582
16.01	MAINTENANCE OF TRAFFIC	LS	1
18.40	HAND RAILING	LF	90
18.45	RIPRAP (IF AND WHEN DIRECTED BY ENGINEER)	CY	22
18.50	ACCESS RAMP	SF	974
19.01	FINAL CLEANUP	LS	1
24.01	CONSTRUCTION ENTRANCE (CO)	EA	2
24.02	CHECK DAM (CD)	CY	5
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	33
24.11	SILT FENCE - TYPE A (SFA)	LF	5210
24.14	STORM DRAIN OUTLET PROTECTION (ST)	EA	3
26.10	TRENCH & EXCAVATION SAFETY	LS	1
27.10	COLD MILLING ASPHALT PAVEMENT	SY	700
29.10	PROJECT INFORMATION KIOSK (PW-18)	EA	1
719.06W	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	LF	1020
719.06Y	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	LF	12030
719.50	THERMOPLASTIC PAVEMENT WORDS	EA	1
719.60	THERMOPLASTIC PAVEMENT ARROWS	EA	2
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGE	CY	120
802	CLASS S CONCRETE - BRIDGE	CY	74.8
802	25' PRECAST CONCRETE INTERIOR UNITS	EA	4.0
802	25' PRECAST CONCRETE CURB UNITS	EA	2.0
802	25' PRECAST CONCRETE NARROW BACK UNITS	EA	2.0
804	REINFORCING STEEL - BRIDGE (GRADE 60)	LB	11,625
805	CONCRETE PILING (16" SQUARE)	LF	250
806	METAL BRIDGE RAILING (TYPE-H)	LF	50
821	MODIFICATION OF EXISTING BRIDGE STRUCTURE	LS	1

PRICING OF ESTIMATED QUANTITIES			
CLR PROJECT 07-17-ST-357			
CHICOT ROAD RECONSTRUCTION			
DEDUCTIVE ALTERNATE 1: STA. 5+00 TO STA. 11+10			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	1200
3.06	BORROW MATERIAL	CY	500
3.40	TOPSOIL	CY	239
4.01	AGGREGATE BASE COURSE	CY	599
5.01	TACK COAT	GAL	447
6.01	ASPHALT SURFACE COURSE	TON	773
6.02	ASPHALT BINDER COURSE	TON	201
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	SF	357
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	1045
9.04	CONCRETE SIDEWALK (4" THICK)	SF	5661
10.04	CURB INLET - 4' BOX	EA	6
10.05	CURB INLET - 5' BOX	EA	3
10.07	WING 3' EXTENSION	EA	3
10.10	WING 6' EXTENSION	EA	2
10.14	WING 10' EXTENSION	EA	1
11.01	REINFORCED CONCRETE PRECAST BOX CULVERT (4'x2') DOUBLE	LF	105
11.05	REINFORCED CONCRETE PRECAST WINGWALS	EA	2
13.18C	STORM DRAIN PIPES, 18" (CROSS DRAIN)	LF	80
13.18S	STORM DRAIN PIPES, 18" (SIDE DRAIN)	LF	540
14.01	SOLID SODDING, BERMUDA	SY	2146
16.01	MAINTENANCE OF TRAFFIC	LS	1
18.50	ACCESS RAMP	SF	180
19.01	FINAL CLEANUP	LS	1
24.02	CHECK DAM (CD)	CY	1
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	6
24.11	SILT FENCE - TYPE A (SFA)	LF	698
24.14	STORM DRAIN OUTLET PROTECTION (ST)	EA	1
26.10	TRENCH & EXCAVATION SAFETY	LS	1
27.10	COLD MILLING ASPHALT PAVEMENT	SY	20
719.06Y	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	LF	3710

PRICING OF ESTIMATED QUANTITIES			
CLR PROJECT 07-17-ST-357			
CHICOT ROAD RECONSTRUCTION			
DEDUCTIVE ALTERNATE 2: STA. 11+10 TO STA. 16+70			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	1300
3.06	BORROW MATERIAL	CY	200
3.40	TOPSOIL	CY	264
4.01	AGGREGATE BASE COURSE	CY	522
5.01	TACK COAT	GAL	391
6.01	ASPHALT SURFACE COURSE	TON	676
6.02	ASPHALT BINDER COURSE	TON	183
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	1242
9.04	CONCRETE SIDEWALK (4" THICK)	SF	4938
10.04	CURB INLET - 4' BOX	EA	5
10.07	WING 3' EXTENSION	EA	4
10.10	WING 6' EXTENSION	EA	2
13.18C	STORM DRAIN PIPES, 18" (CROSS DRAIN)	LF	100
13.18S	STORM DRAIN PIPES, 18" (SIDE DRAIN)	LF	60
13.24S	STORM DRAIN PIPES, 24" (SIDE DRAIN)	LF	340
14.01	SOLID SODDING, BERMUDA	SY	2373
16.01	MAINTENANCE OF TRAFFIC	LS	1
18.50	ACCESS RAMP	SF	120
19.01	FINAL CLEANUP	LS	1
24.02	CHECK DAM (CD)	CY	1
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	5
24.11	SILT FENCE - TYPE A (SFA)	LF	988
26.10	TRENCH & EXCAVATION SAFETY	LS	1
27.10	COLD MILLING ASPHALT PAVEMENT	SY	20
719.06W	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	LF	310
719.06Y	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	LF	2240

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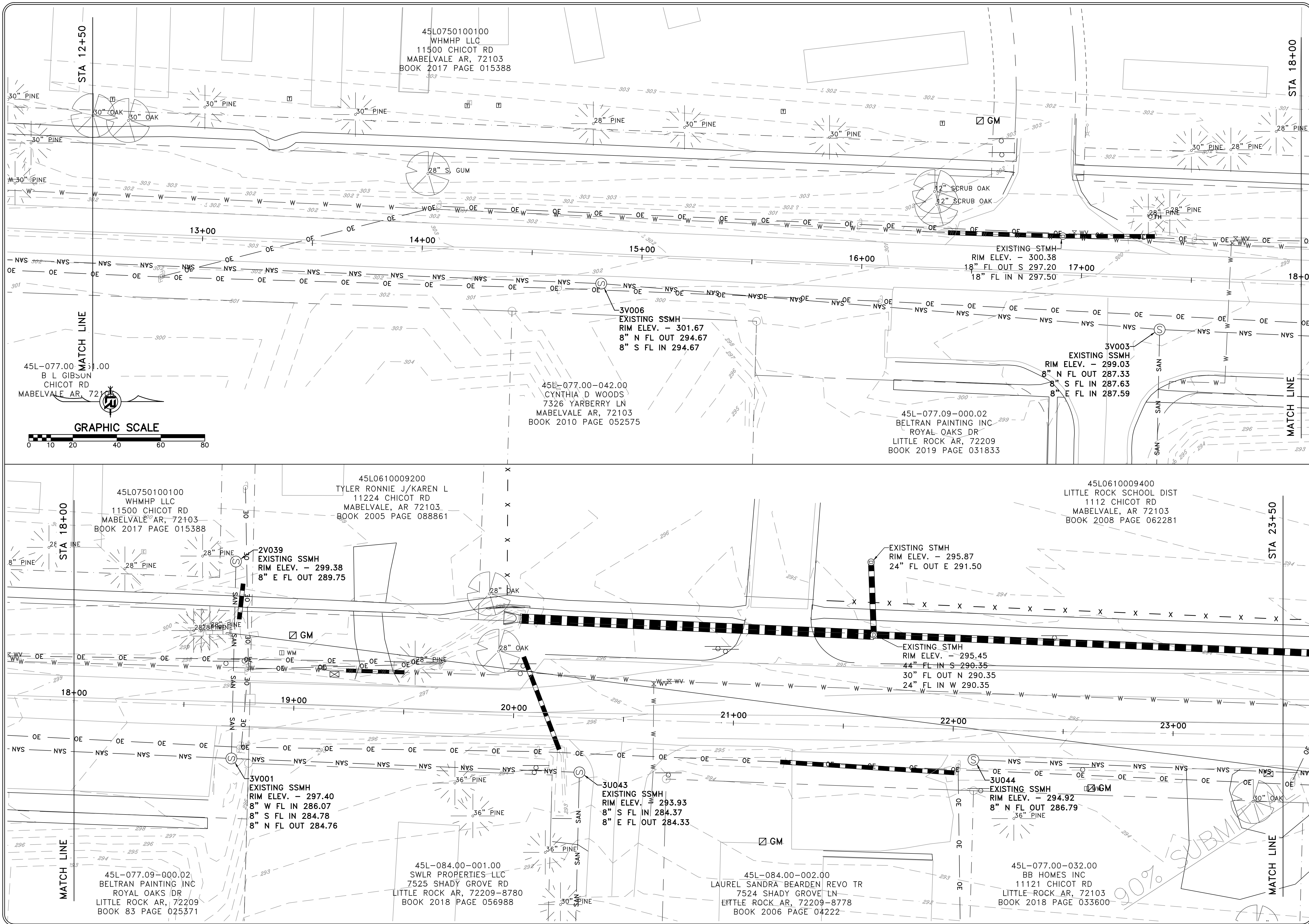
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
EXISTING CONDITIONS (1)

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

SEAL

DRAWN BY  
KLL  
DESIGNED  
COF  
CHECKED  
BOL  
DATE  
11-15-2019  
SCALE  
1" = 20'  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C3

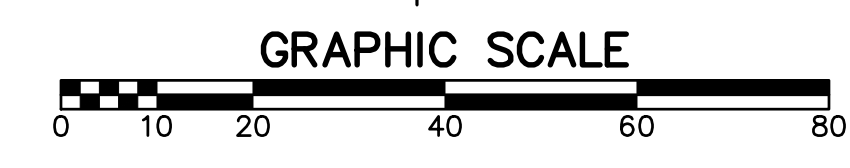


STA 12+50

STA 18+00

MATCH LINE

MATCH LINE



45L0750100100  
WHMHP LLC  
11500 CHICOT RD  
MABELVALE AR, 72103  
BOOK 2017 PAGE 015388

45L-077.00-042.00  
B L GIBSON  
CHICOT RD  
MABELVALE AR, 72103

45L-077.00-042.00  
CYNTHIA D WOODS  
7326 YARBERRY LN  
MABELVALE AR, 72103  
BOOK 2010 PAGE 052575

45L-077.09-000.02  
BELTRAN PAINTING INC  
ROYAL OAKS DR  
LITTLE ROCK AR, 72209  
BOOK 2019 PAGE 031833

45L0610009200  
TYLER RONNIE J/KAREN L  
11224 CHICOT RD  
MABELVALE, AR 72103  
BOOK 2005 PAGE 088861

45L0610009400  
LITTLE ROCK SCHOOL DIST  
1112 CHICOT RD  
MABELVALE, AR 72103  
BOOK 2008 PAGE 062281

45L0750100100  
WHMHP LLC  
11500 CHICOT RD  
MABELVALE AR, 72103  
BOOK 2017 PAGE 015388

2V039  
EXISTING SSMH  
RIM ELEV. - 299.38  
8" E FL OUT 289.75

EXISTING STMH  
RIM ELEV. - 295.87  
24" FL OUT E 291.50

EXISTING STMH  
RIM ELEV. - 295.45  
44" FL IN S 290.35  
30" FL OUT N 290.35  
24" FL IN W 290.35

3V001  
EXISTING SSMH  
RIM ELEV. - 297.40  
8" W FL IN 286.07  
8" S FL IN 284.78  
8" N FL OUT 284.76

3U043  
EXISTING SSMH  
RIM ELEV. - 293.93  
8" S FL IN 284.37  
8" E FL OUT 284.33

3U044  
EXISTING SSMH  
RIM ELEV. - 294.92  
8" N FL OUT 286.79

45L-077.09-000.02  
BELTRAN PAINTING INC  
ROYAL OAKS DR  
LITTLE ROCK AR, 72209  
BOOK 83 PAGE 025371

45L-084.00-001.00  
SWLR PROPERTIES-LLC  
7525 SHADY GROVE RD  
LITTLE ROCK AR, 72209-8780  
BOOK 2018 PAGE 056988

45L-084.00-002.00  
LAUREL SANDRA BEARDEN REVO TR  
7524 SHADY GROVE LN  
LITTLE ROCK AR, 72209-8778  
BOOK 2006 PAGE 04222

45L-077.00-032.00  
BB HOMES INC  
11121 CHICOT RD  
LITTLE ROCK AR, 72103  
BOOK 2018 PAGE 033600

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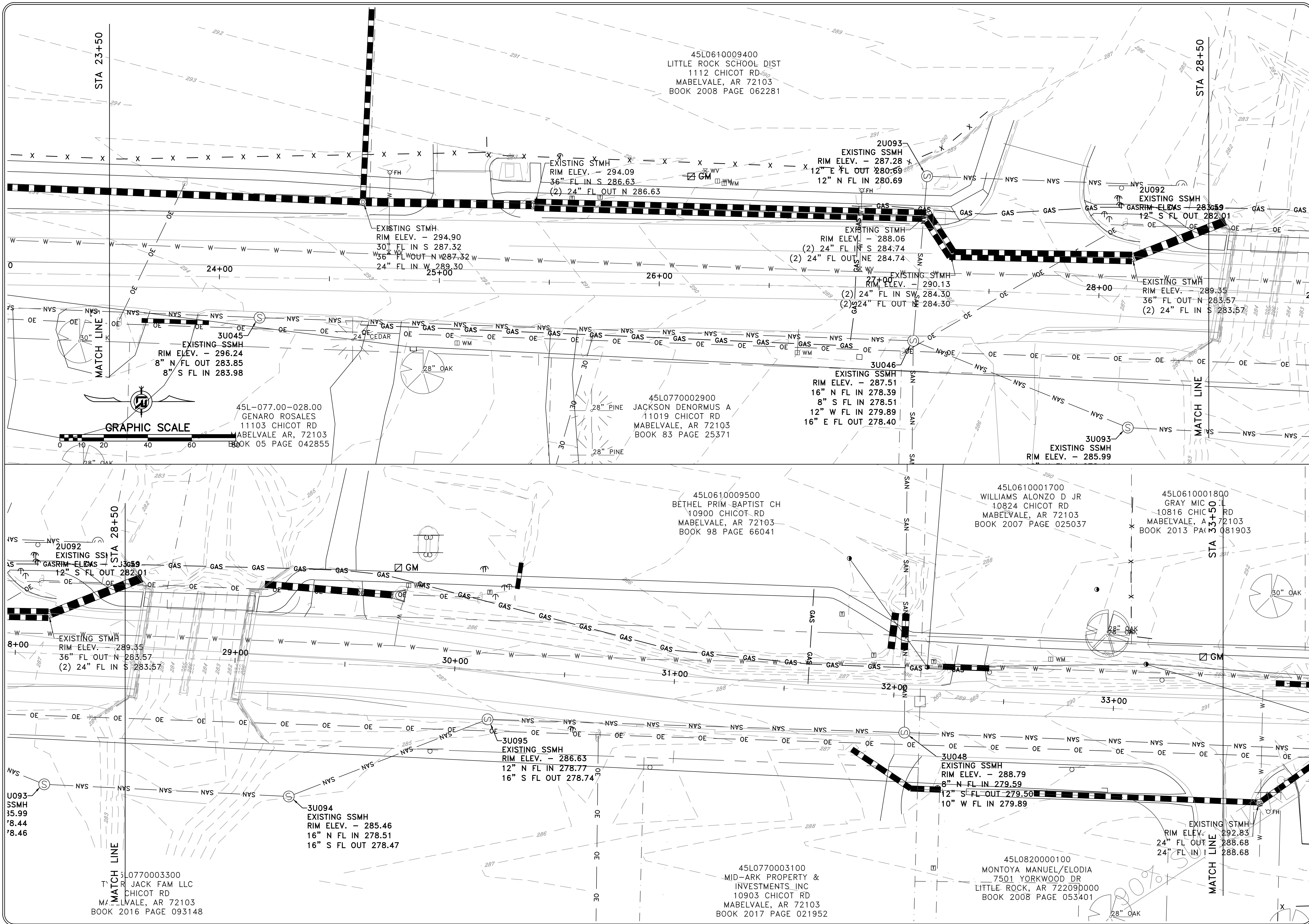
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
EXISTING CONDITIONS (2)

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

SEAL

DRAWN BY  
KLL  
DESIGNED  
COF  
CHECKED  
BOL  
DATE  
11-15-2019  
SCALE  
1" = 20'  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C4



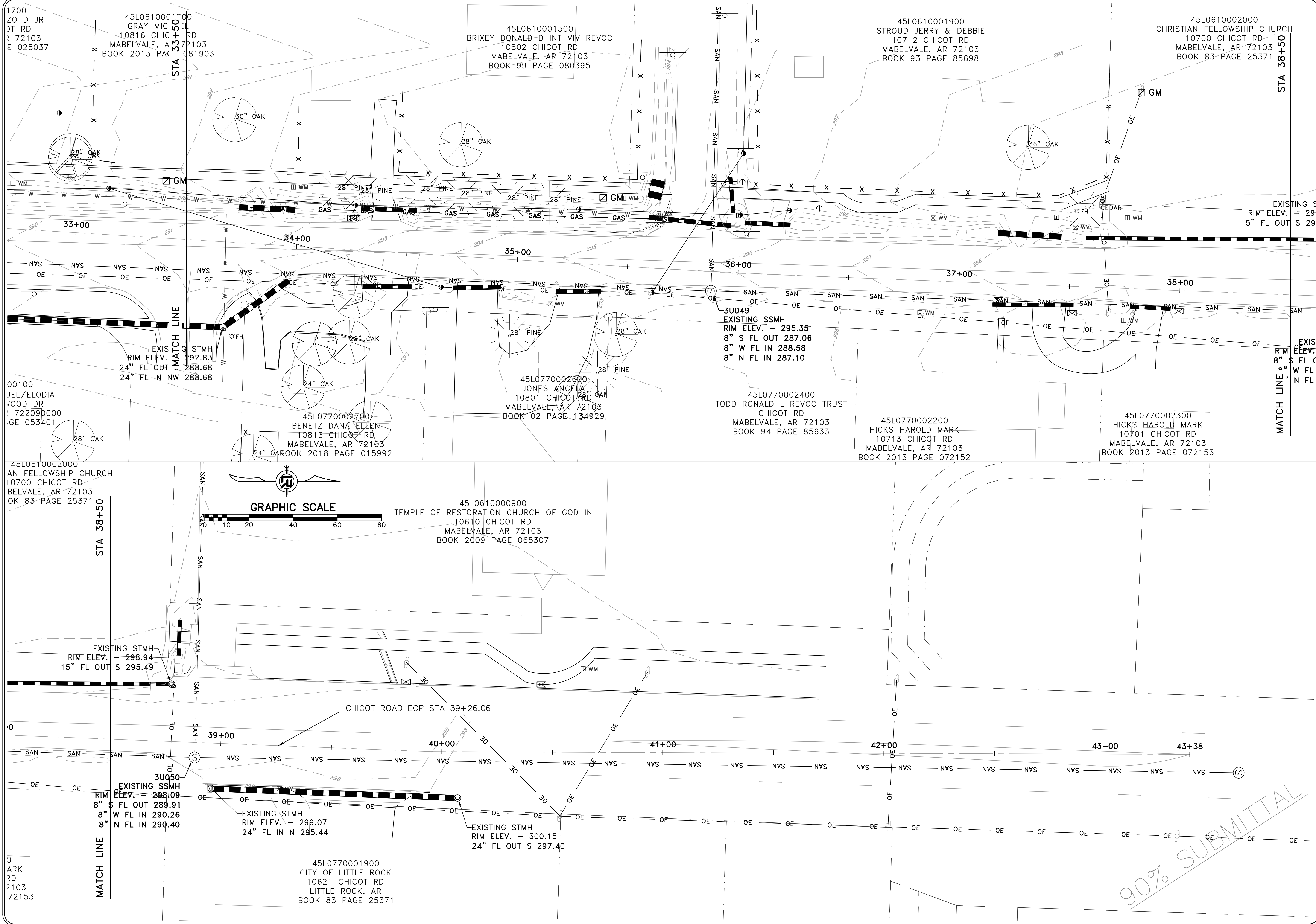
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
EXISTING CONDITIONS (3)

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

SEAL

DRAWN BY  
KLL  
DESIGNED  
COF  
CHECKED  
BOL  
DATE  
11-15-2019  
SCALE  
1" = 20'  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C5



1700  
ZO D JR  
ST RD  
72103  
E 025037

45L0610001000  
GRAY MIC  
10816 CHIC  
MABELVALE, AR 72103  
BOOK 2013 PA  
081903

45L0610001500  
BRIXEY DONALD-D INT VIV REVOC  
10802 CHICOT RD  
MABELVALE, AR 72103  
BOOK-99 PAGE 080395

45L0610001900  
STROUD JERRY & DEBBIE  
10712 CHICOT RD  
MABELVALE, AR 72103  
BOOK 93 PAGE 85698

45L0610002000  
CHRISTIAN FELLOWSHIP CHURCH  
10700 CHICOT RD  
MABELVALE, AR 72103  
BOOK 83-PAGE 25371

00100  
JEL/ELODIA  
FOOD DR  
722090000  
GE 053401

EXISTING STMH  
RIM ELEV. - 292.83  
24" FL OUT 288.68  
24" FL IN NW 288.68

45L0770002700  
BENETZ DANA ELLEN  
10813 CHICOT RD  
MABELVALE, AR 72103  
BOOK 2018 PAGE 015992

45L0770002600  
JONES ANGELA  
10801 CHICOT RD  
MABELVALE, AR 72103  
BOOK 02 PAGE 134929

45L0770002400  
TODD RONALD L REVOC TRUST  
CHICOT RD  
MABELVALE, AR 72103  
BOOK 94 PAGE 85633

45L0770002200  
HICKS HAROLD MARK  
10701 CHICOT RD  
MABELVALE, AR 72103  
BOOK 2013 PAGE 072152

45L0770002300  
HICKS HAROLD MARK  
10701 CHICOT RD  
MABELVALE, AR 72103  
BOOK 2013 PAGE 072153

45L0610002000  
CHRISTIAN FELLOWSHIP CHURCH  
10700 CHICOT RD  
MABELVALE, AR 72103  
BOOK 83-PAGE 25371

GRAPHIC SCALE

45L0610000900  
TEMPLE OF RESTORATION CHURCH OF GOD INC  
10610 CHICOT RD  
MABELVALE, AR 72103  
BOOK 2009 PAGE 065307

EXISTING STMH  
RIM ELEV. - 298.94  
15" FL OUT S 295.49

CHICOT ROAD EOP STA 39+26.06

EXISTING SSMH  
RIM ELEV. - 298.09  
8" S FL OUT 289.91  
8" W FL IN 290.26  
8" N FL IN 290.40

EXISTING STMH  
RIM ELEV. - 299.07  
24" FL IN N 295.44

EXISTING STMH  
RIM ELEV. - 300.15  
24" FL OUT S 297.40

45L0770001900  
CITY OF LITTLE ROCK  
10621 CHICOT RD  
LITTLE ROCK, AR  
BOOK 83 PAGE 25371

0  
ARK  
RD  
2103  
72153

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
EXISTING CONDITIONS (4)

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



SEAL

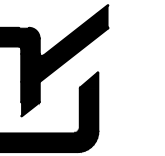
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DESIGNED COF
CHECKED BOL
DATE 11-15-2019
SCALE 1" = 20'
PROJECT NO. CLR 07-17-ST-357
SHEET NO. C6

90% SUBMITTAL

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD STREET RECONSTRUCTION

SPECIAL DETAILS (1)

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM



LITTLE ROCK, ARKANSAS 72201

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11-15-2019  
SCALE  
N.T.S.

PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C7

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK				

### QUANTITIES

CLASS S CONCRETE - 4 WINGS	
CLEAR SPAN	HEADWALLS, WINGWALLS, FOOTINGS, SIDEWALLS AND APRONS
CLEAR HEIGHT	SINGLE BARREL CULVERT
THICKNESS OF WING AT HEADWALL	DOUBLE BARREL CULVERT
THICKNESS OF WING AT FOOTING	TRIPLE BARREL CULVERT
STEEL REINFORCING	QUADRUPLE BARREL CULVERT
FOR 4 WINGS	QUINTUPLE BARREL CULVERT
S H Cw Wb L.B.	CUYD. CUYD. CUYD. CUYD. CUYD.
2' 2" 12' 8	100.0 4.50 5.94 6.42 7.93 8.34
3' 2" 12' 10	169.8 6.24 7.27 8.17 9.13 10.09
4' 2" 12' 13	284.5 8.33 9.28 10.24 11.20 12.16
5' 2" 12' 15	382.8 10.72 11.68 12.64 13.60 14.56
6' 2" 12' 18	583.1 14.55 15.53 16.52 17.51 18.49
7' 2" 12' 21	764.9 19.67 20.67 21.68 22.68 23.68
8' 2" 12' 24	1029.2 26.04 27.04 28.04 29.04 30.04
9' 2" 12' 27	1276.8 32.66 33.66 34.66 35.66 36.66
10' 2" 12' 30	1517.6 39.54 40.54 41.54 42.54 43.54
11' 2" 12' 33	1752.5 46.67 47.67 48.67 49.67 50.67
12' 2" 12' 36	1981.4 54.04 55.04 56.04 57.04 58.04
13' 2" 12' 39	2204.2 61.66 62.66 63.66 64.66 65.66
14' 2" 12' 42	2420.8 69.54 70.54 71.54 72.54 73.54
15' 2" 12' 45	2631.1 77.67 78.67 79.67 80.67 81.67
16' 2" 12' 48	2835.1 86.04 87.04 88.04 89.04 90.04
17' 2" 12' 51	3032.8 94.66 95.66 96.66 97.66 98.66
18' 2" 12' 54	3224.1 103.54 104.54 105.54 106.54 107.54
19' 2" 12' 57	3409.0 112.67 113.67 114.67 115.67 116.67
20' 2" 13' 0	3587.5 122.04 123.04 124.04 125.04 126.04
21' 2" 13' 3	3759.6 131.66 132.66 133.66 134.66 135.66
22' 2" 13' 6	3925.3 141.54 142.54 143.54 144.54 145.54
23' 2" 13' 9	4084.6 151.67 152.67 153.67 154.67 155.67
24' 2" 13' 12	4237.5 162.04 163.04 164.04 165.04 166.04
25' 2" 13' 15	4383.9 172.66 173.66 174.66 175.66 176.66
26' 2" 13' 18	4523.8 183.54 184.54 185.54 186.54 187.54
27' 2" 13' 21	4657.2 194.67 195.67 196.67 197.67 198.67
28' 2" 13' 24	4784.1 206.04 207.04 208.04 209.04 210.04
29' 2" 13' 27	4904.5 217.66 218.66 219.66 220.66 221.66
30' 2" 13' 30	5018.4 229.54 230.54 231.54 232.54 233.54

For reinforcing steel in Headwall and Aprons, See Details of Standard Barrel Sections for R.C. Box Culverts for the desired Span and Height.

**GENERAL NOTES:**  
CONCRETE: All concrete to be Class S, and shall be poured in the dry. All exposed corners to have 3/8 chamfers.  
REINFORCING STEEL: Reinforcing steel to be deformed bars of intermediate or heavy grade.  
CONSTRUCTION JOINTS: Construction joints between wingwall, footings and side walls shall be only where shown on plans.  
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.  
UNIT STRESSES:  
Class S Concrete (f'c = 1200) 4  
Reinforcing steel 20,000 4

**NOTE:** This drawing to be used in conjunction with Standard Barrel Sections, Drawing No. 3 as listed below.

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-100X-0	R-200X-0	R-300X-0	R-400X-0	R-500X-0
R-100X-1	R-200X-1	R-300X-1	R-400X-1	R-500X-1
R-100X-2	R-200X-2	R-300X-2	R-400X-2	R-500X-2
	R-200X-3	R-300X-3		

### CLASS S CONCRETE

## ARKANSAS STATE HIGHWAY COMMISSION

### DETAILS OF STANDARD WINGS

FOR  
REINFORCED CONCRETE BOX CULVERTS  
4.5', 6', 7', 8', 9', 10', 11' & 12' SPANS  
SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES.  
3:1 SLOPES  
ALL DEPTHS OF COVER  
FOR H = 8'-0" OR LESS

STANDARD DRAWING NO. W-X003-1

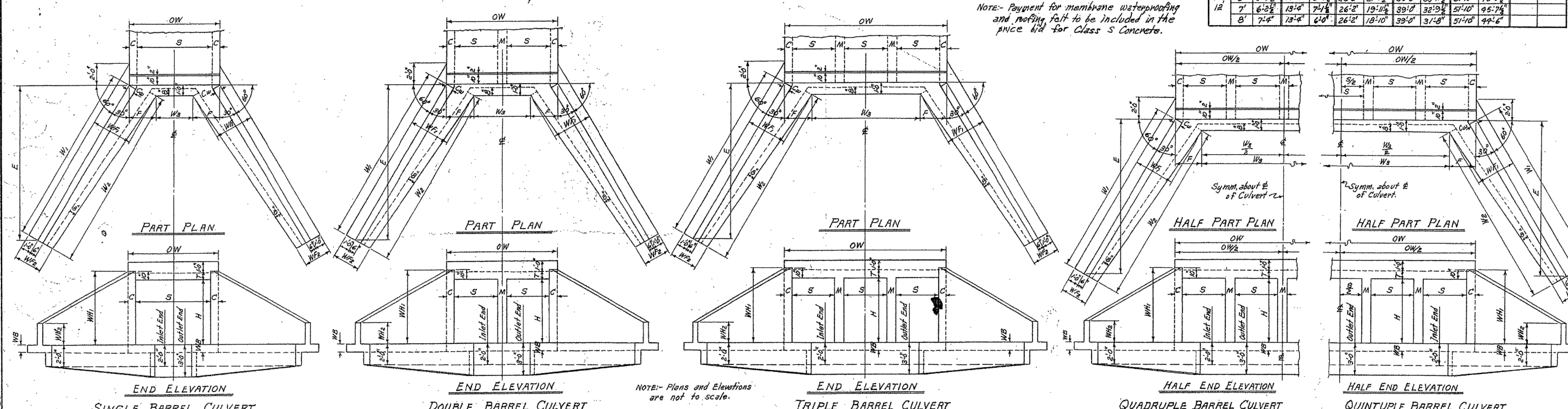
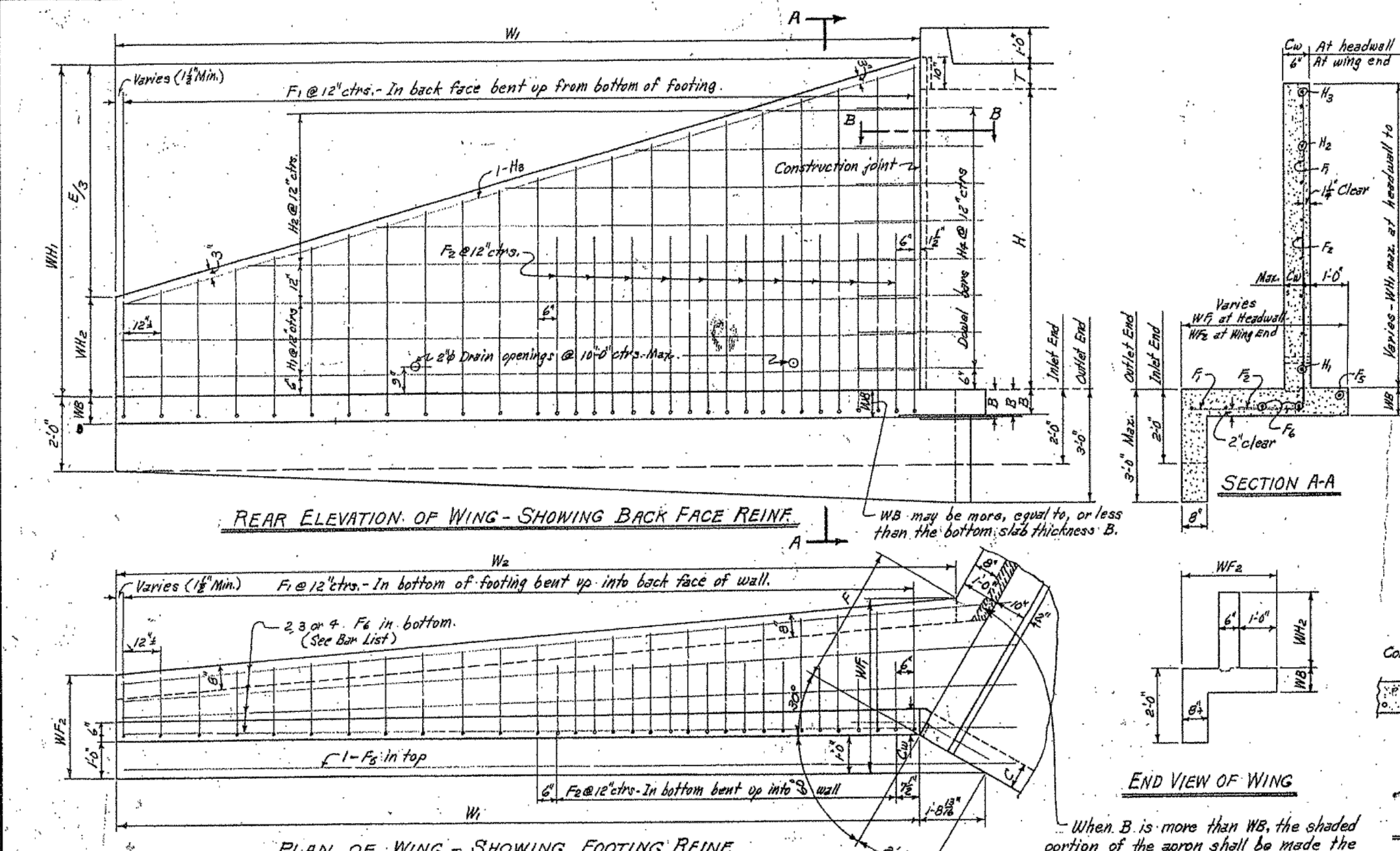
### APRON DIMENSION $W_3$

$W_3 = (OW - 2F)$

CLEAR SPAN	CLEAR HEIGHT	THICKNESS OF WING AT HEADWALL	THICKNESS OF WING AT FOOTING	SINGLE BARREL CULVERT	DOUBLE BARREL CULVERT	TRIPLE BARREL CULVERT	QUADRUPLE BARREL CULVERT	QUINTUPLE BARREL CULVERT
H	WB	WH	WF	W3	W3	W3	W3	W3
2'	2'	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
3'	3'	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
4'	4'	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
5'	5'	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"
6'	6'	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
7'	7'	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
8'	8'	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
9'	9'	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"
10'	10'	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
11'	11'	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"
12'	12'	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"

Quantity per wing does not include headwall or that portion of apron or footwall for the length  $W_3$ .

**MEMBRANE:** A membrane waterproofing 18" wide, consisting of three layers of waterproofing material and two alternate layers of treated cotton fabric shall be applied to the back face of wing to cover the construction joints in wings.



CLEAR HEIGHT	BENT		STRAIGHT		STRAIGHT		BENT	
H	SIZE	SPACING	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
2'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
3'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
4'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
5'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
6'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
7'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
8'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
9'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
10'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
11'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
12'	#3	12"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"

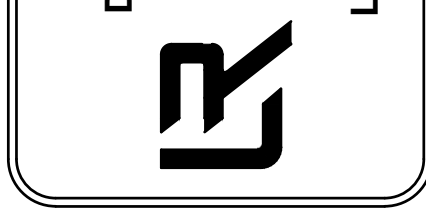
REVISIONS: - Membrane added 1-10-66 W.C.H.

# REINFORCED CONCRETE BOX CULVERT AND WINGWALL DETAIL

REVISIONS	DATE

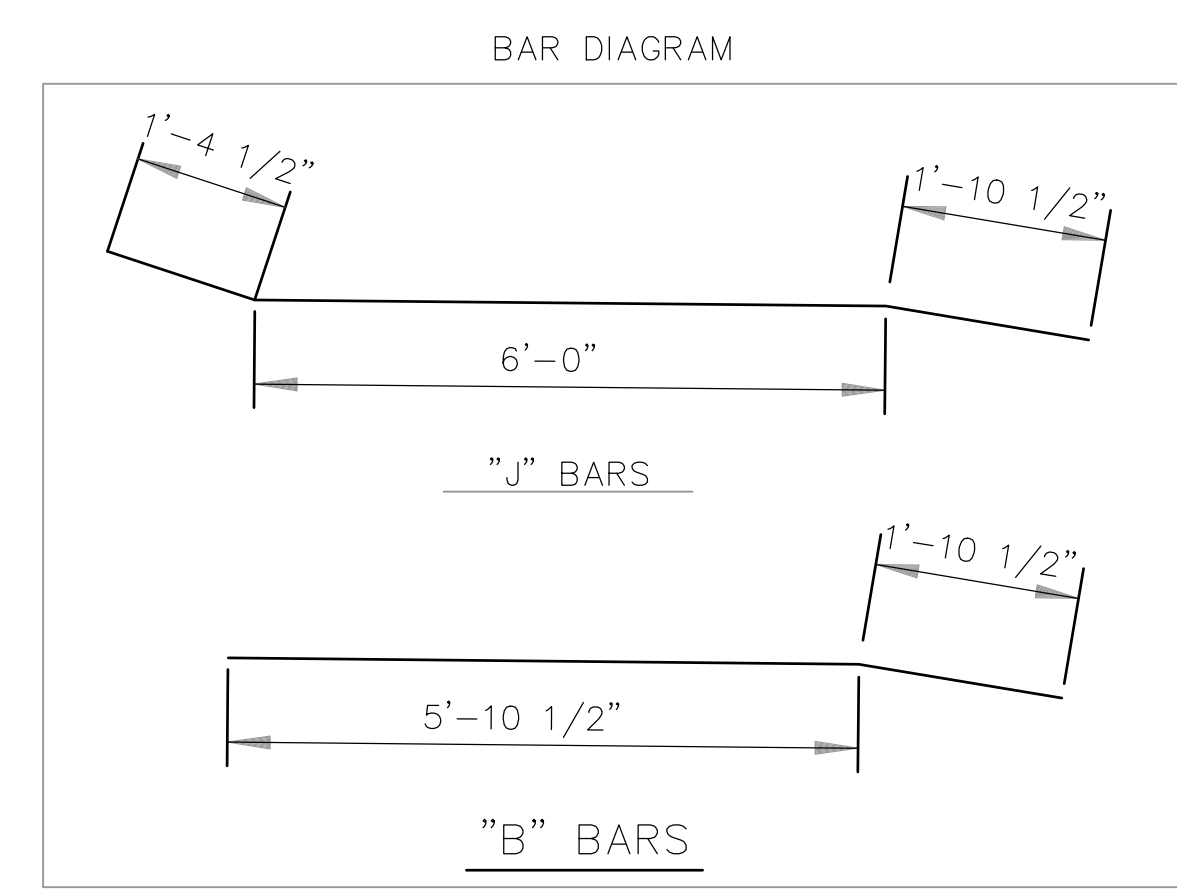
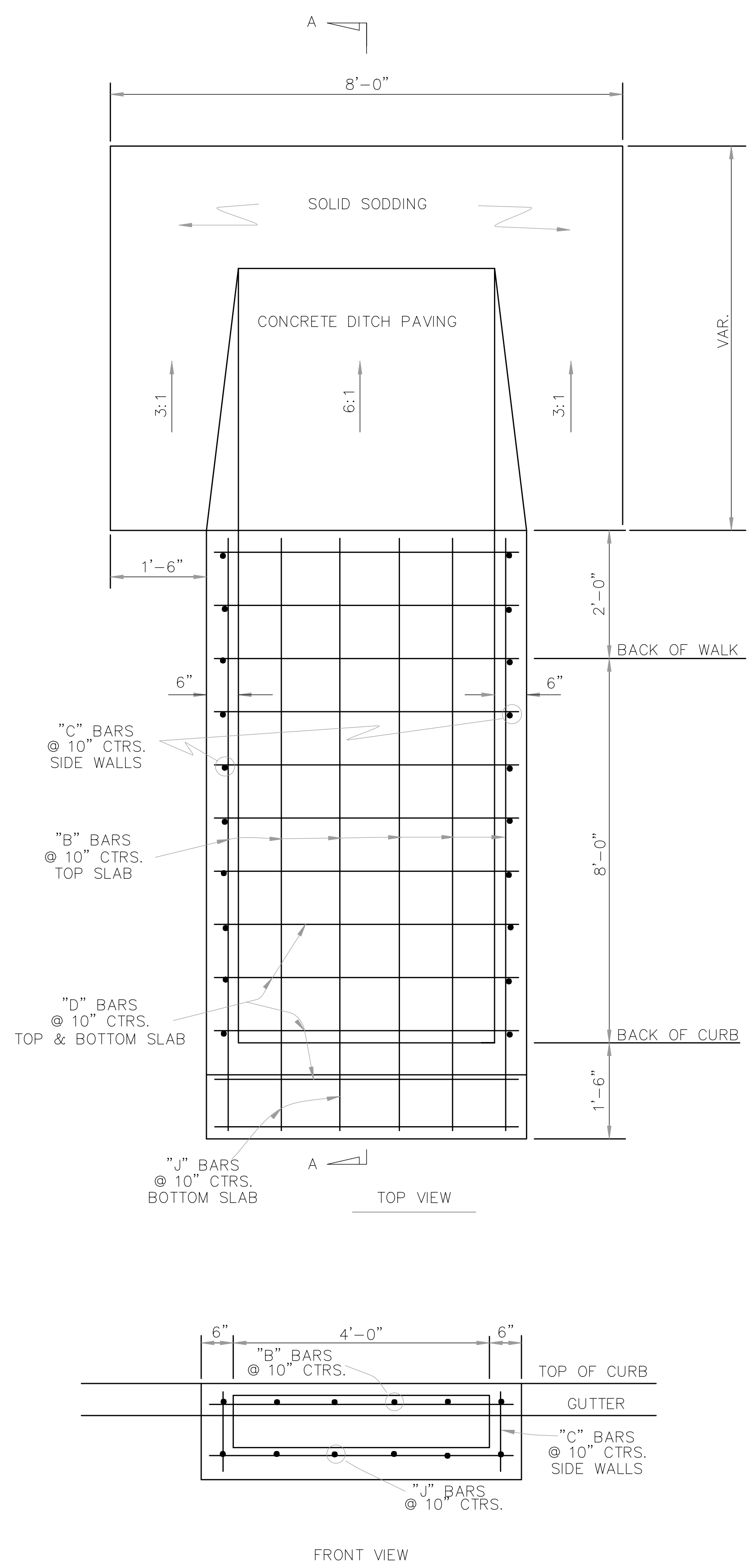
**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD STREET RECONSTRUCTION**

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



SEAL

<b>DRAWN BY</b> KLL
<b>DESIGNED</b> COF
<b>CHECKED</b> BOL
<b>DATE</b> 11-15-2019
<b>SCALE</b> N.T.S.
<b>PROJECT NO.</b> CLR 07-17-ST-357
<b>SHEET NO.</b> C8

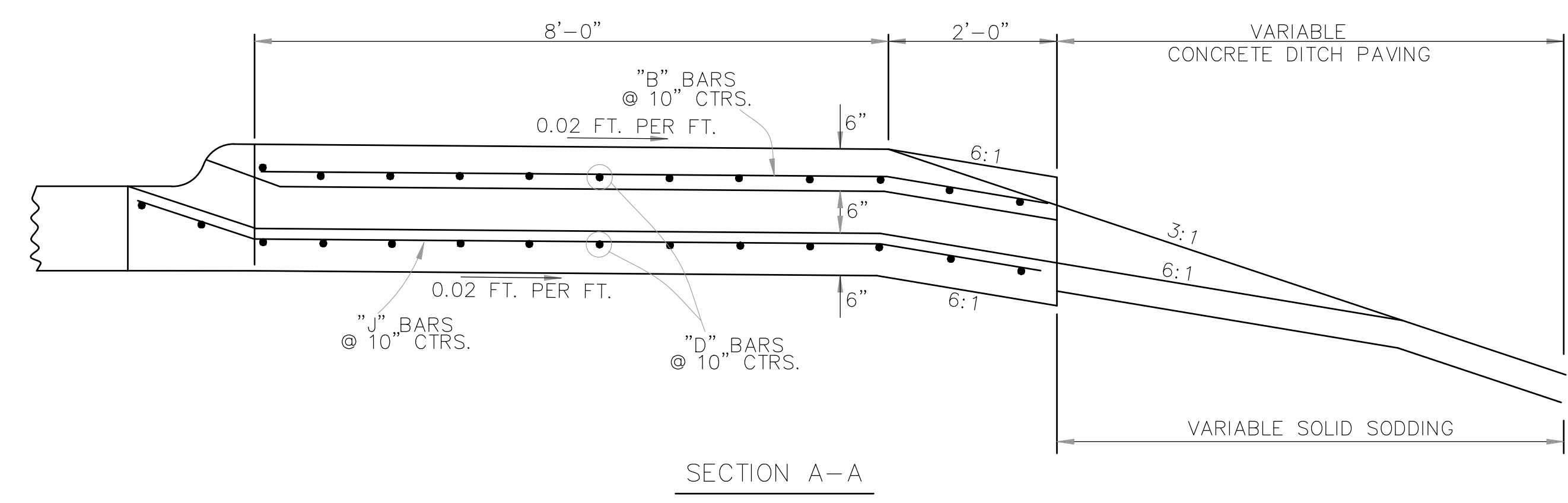
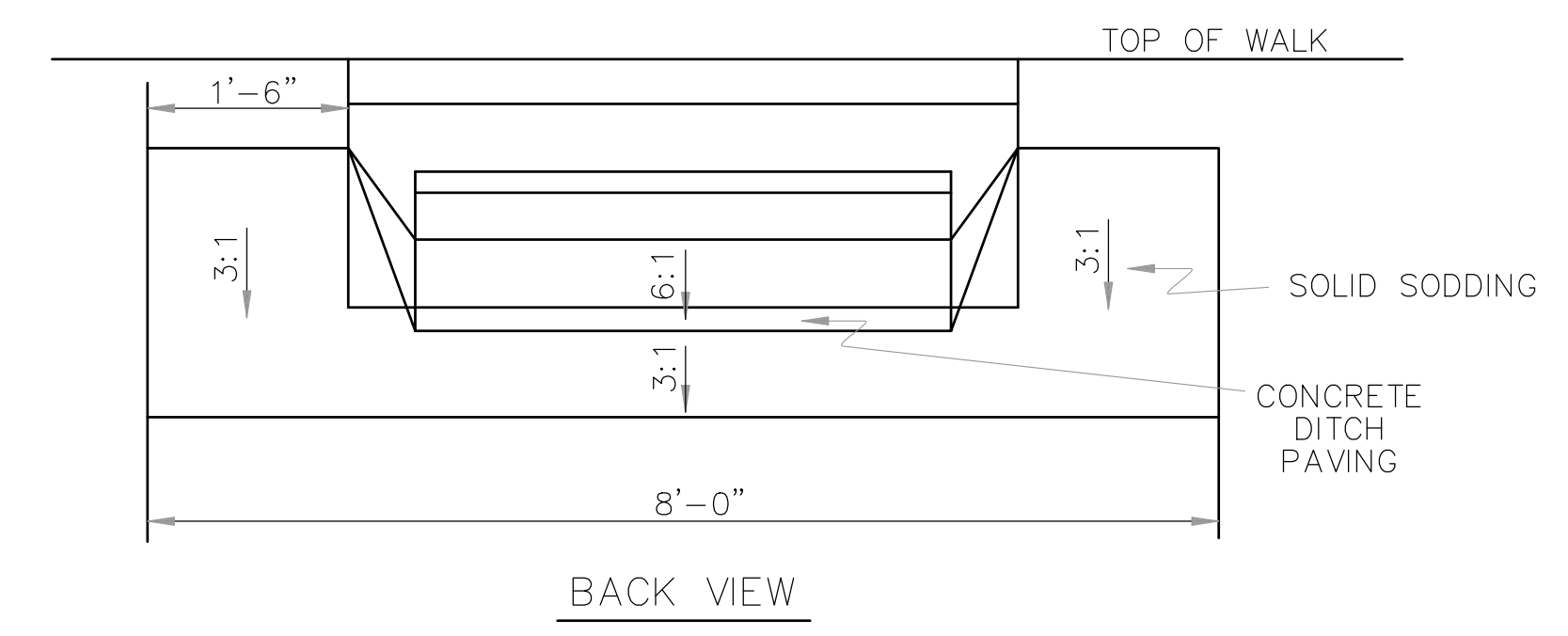


CLASS A CONC.	REINF. STEEL-RDWY GRADE 60
CU. YDS.	POUND
1.90	155

QUANTITIES FOR INFORMATION ONLY.

**GENERAL NOTES:**

- ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
- ALL REINF. BARS SHALL BE #4 AND HAVE 1 1/2" COVER.
- DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
- DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET IF AND WHERE APPROVED BY THE ENGINEER.
- PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
- PAYMENT FOR CONCRETE DITCH PAVING & SOLID SODDING SHALL BE PAID FOR SEPARATELY.
- SEE STANDARD DRAWING FPC-9E FOR EXTENSIONS.



# DROP INLET TYPE SPECIAL

90% SUBMITTAL



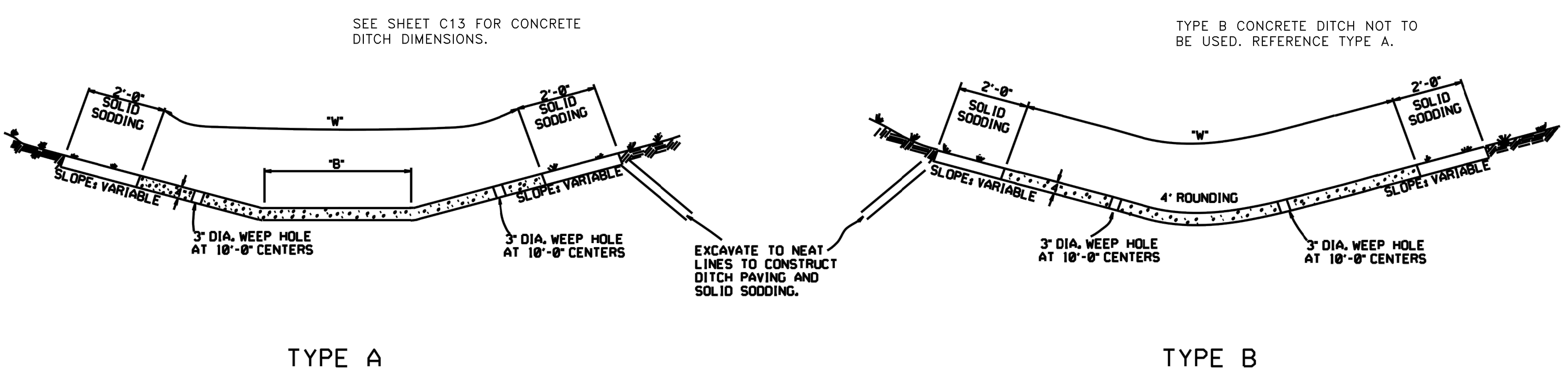
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD STREET RECONSTRUCTION  
 SPECIAL DETAILS (3)

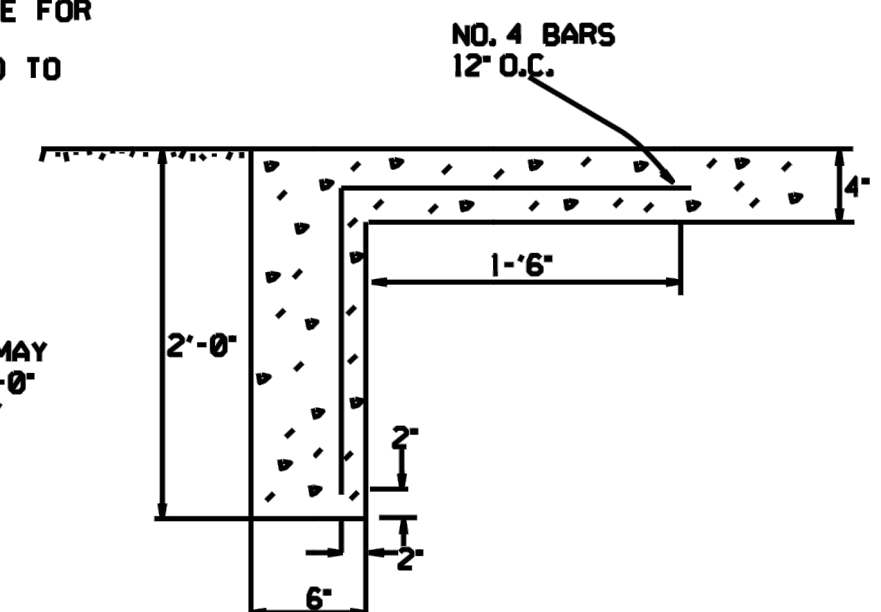
DEPARTMENT OF PUBLIC WORKS  
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 CLR 07-17-ST-357  
 SHEET NO.  
 C9



THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR "CONCRETE DITCH PAVING."



TOE WALL DETAIL FOR CONCRETE DITCH PAVING

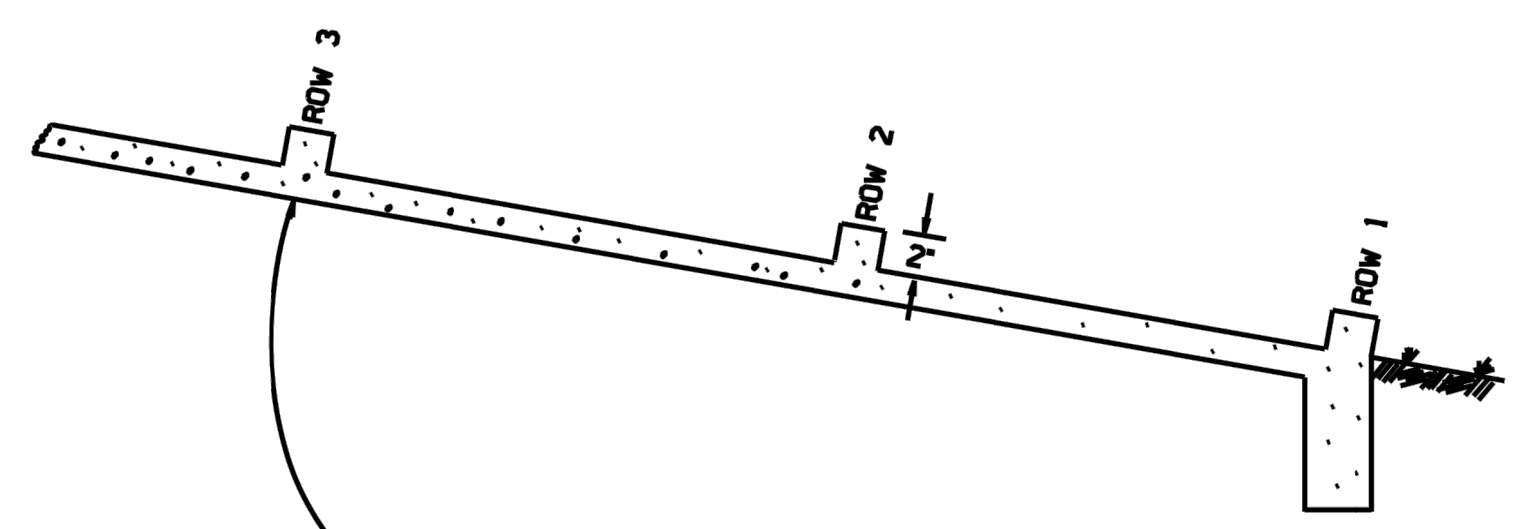
TOE WALL DEPTH MAY BE ALTERED TO 1'-0" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.  
 TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.

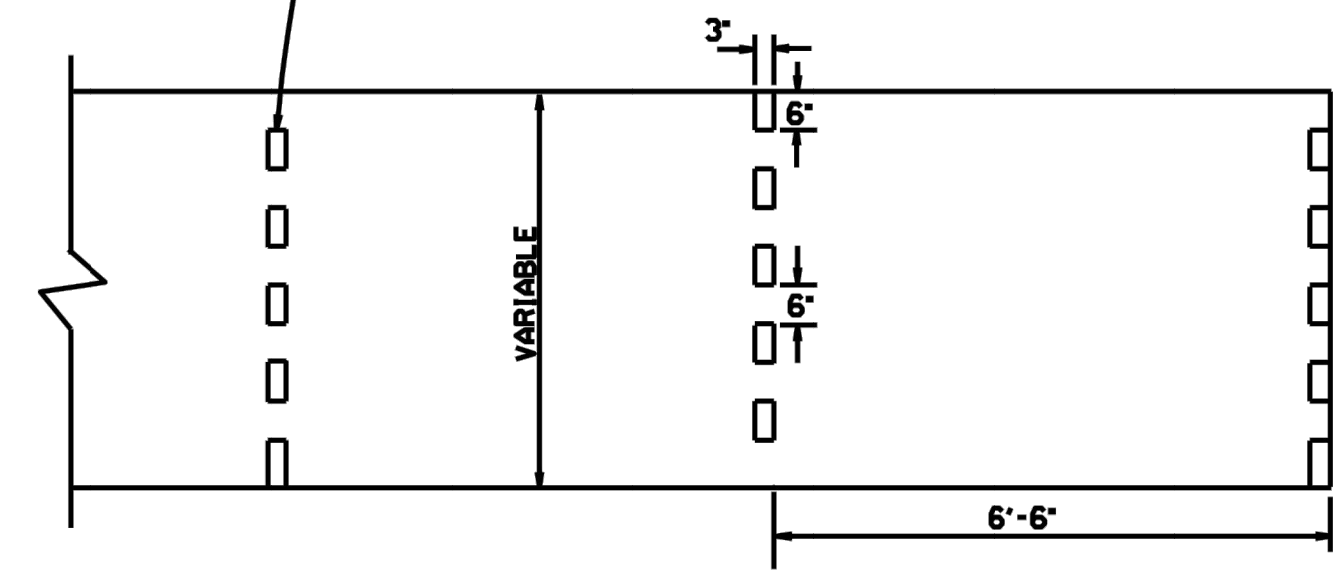
SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

1' WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.



ENERGY DISSIPATORS (NO SCALE)

DATE	REVISION	DATE	FIRM
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE		
11-17-10	ADDED GENERAL NOTE		
8-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING		
11-30-88	ELIMINATED MIN. ROWS OF ELEMENTS	11-30-89	
7-15-88	REVISED DISSIPATOR NOTE	6-3-7-15-88	
4-3-87	REVISED ENERGY DISSIPATOR	6-7-4-3-87	
1-9-87	MODIFIED NOTE ON ENERGY DISS.	5-3-1-9-87	
11-3-86	ADDED NOTE TO ENERGY DISS.	4-2-1-3-86	
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	5-8-11-1-84	
11-1-84	EXCAVATION DETAILS ADDED		
10-2-72	TYPED A & B		
	REVISED AND REDRAWN	5-8-10-2-72	
	DATE	REVISION	DATE

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

CONCRETE DITCH PAVING

90% SUBMITTAL

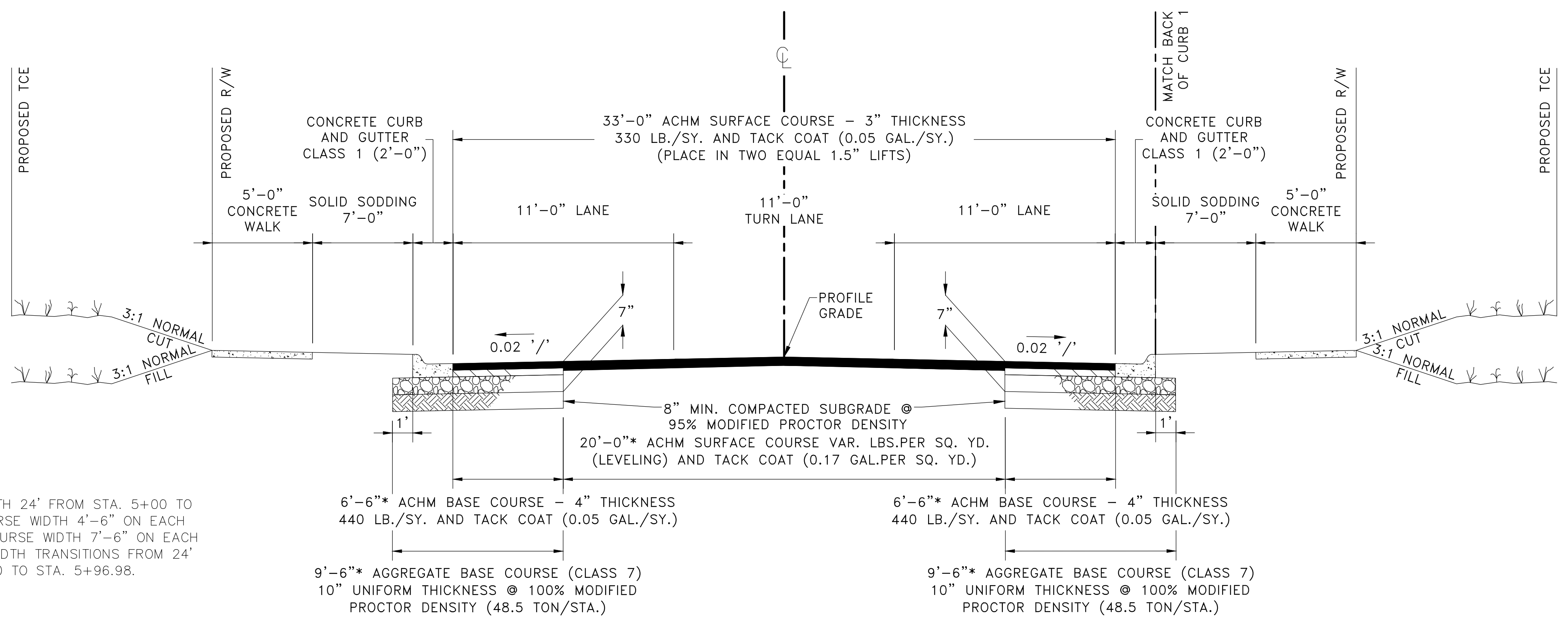
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD STREET RECONSTRUCTION  
TYPICAL SECTIONS (1)

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

SEAL

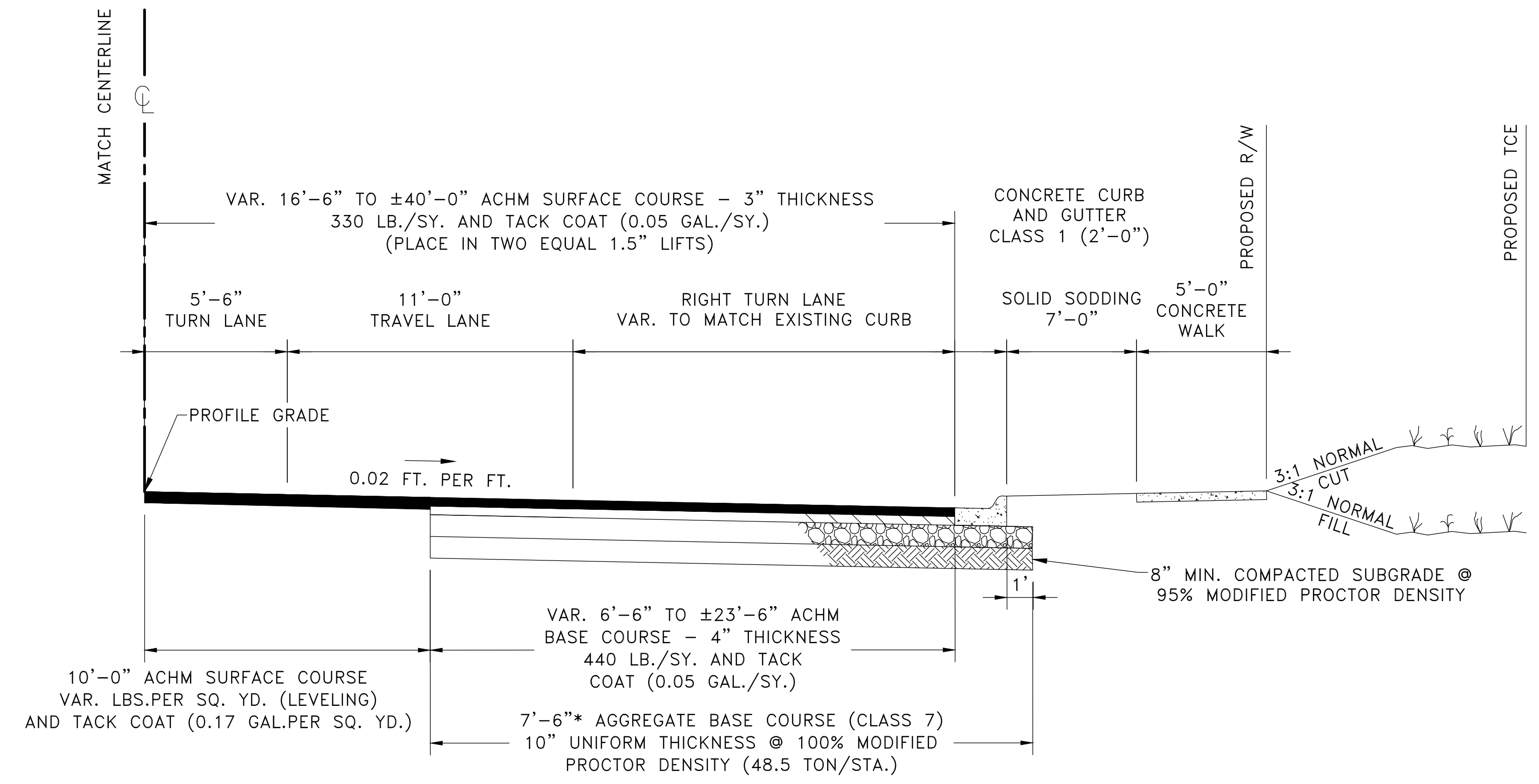
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SCALE  
N.T.S.  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C10



NOTES:  
\* NOTCH AND WIDEN WIDTH 24' FROM STA. 5+00 TO 5+76.80. ACHM BASE COURSE WIDTH 4'-6" ON EACH SIDE; AGGREGATE BASE COURSE WIDTH 7'-6" ON EACH SIDE. NOTCH AND WIDEN WIDTH TRANSITIONS FROM 24' TO 20' FROM STA. 5+76.80 TO STA. 5+96.98.

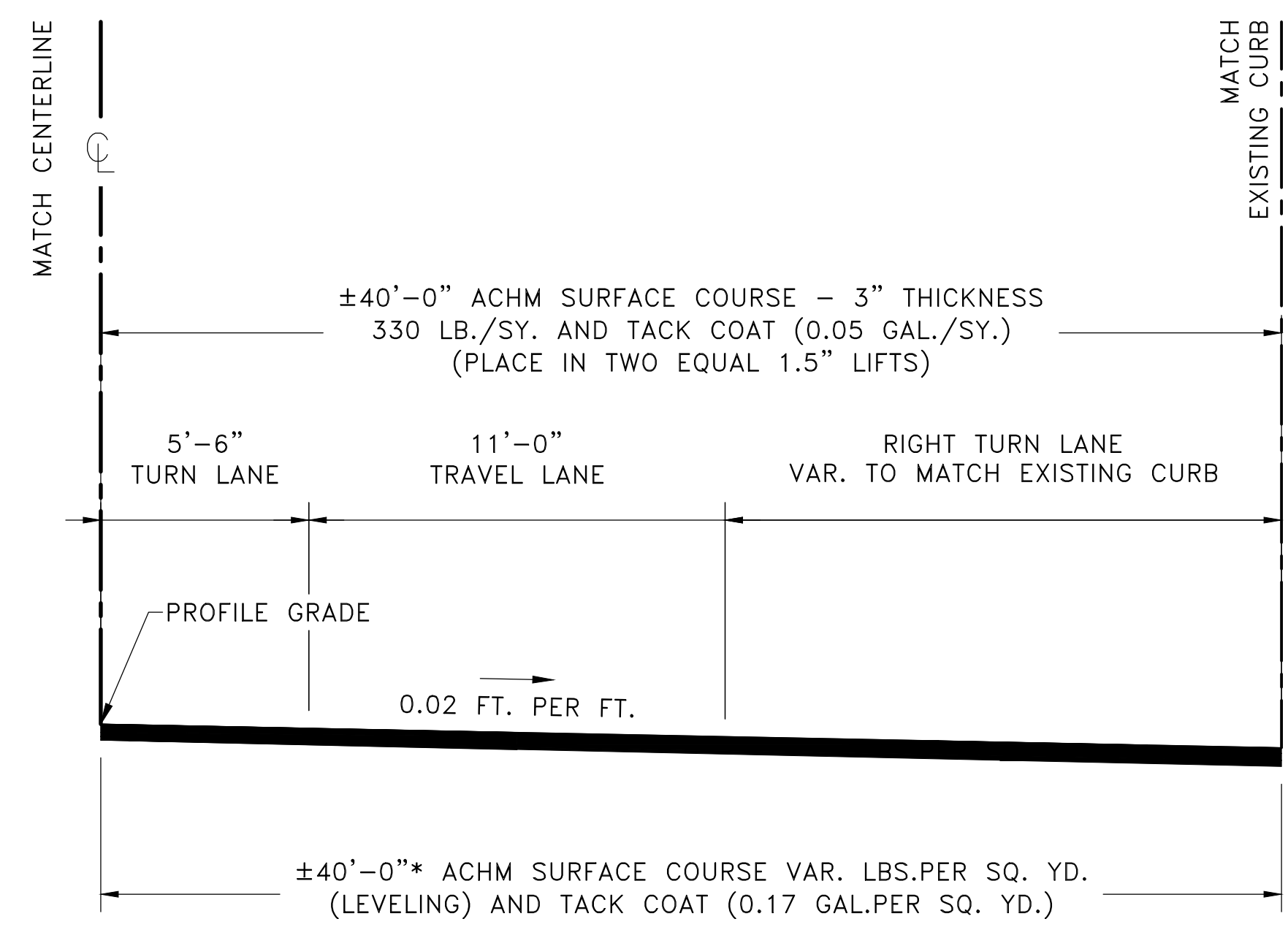
## TYPICAL SECTION-CHICOT ROAD

STA 5+00.00 TO STA. 20+06.78  
STA. 15+56.97 TO STA. 17+53.77 - LT. OF CL  
STA. 17+53.77 TO STA. 20+06.78 - LT. OF BACK OF CURB RT.



## TYPICAL SECTION-CHICOT ROAD

STA 15+56.97 TO  
STA. 16+14.81 - RT. OF CL



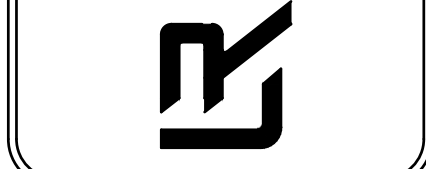
## TYPICAL SECTION-CHICOT ROAD

STA 16+14.81 TO  
STA. 17+53.77 - RT. OF CL

REVISIONS	DATE

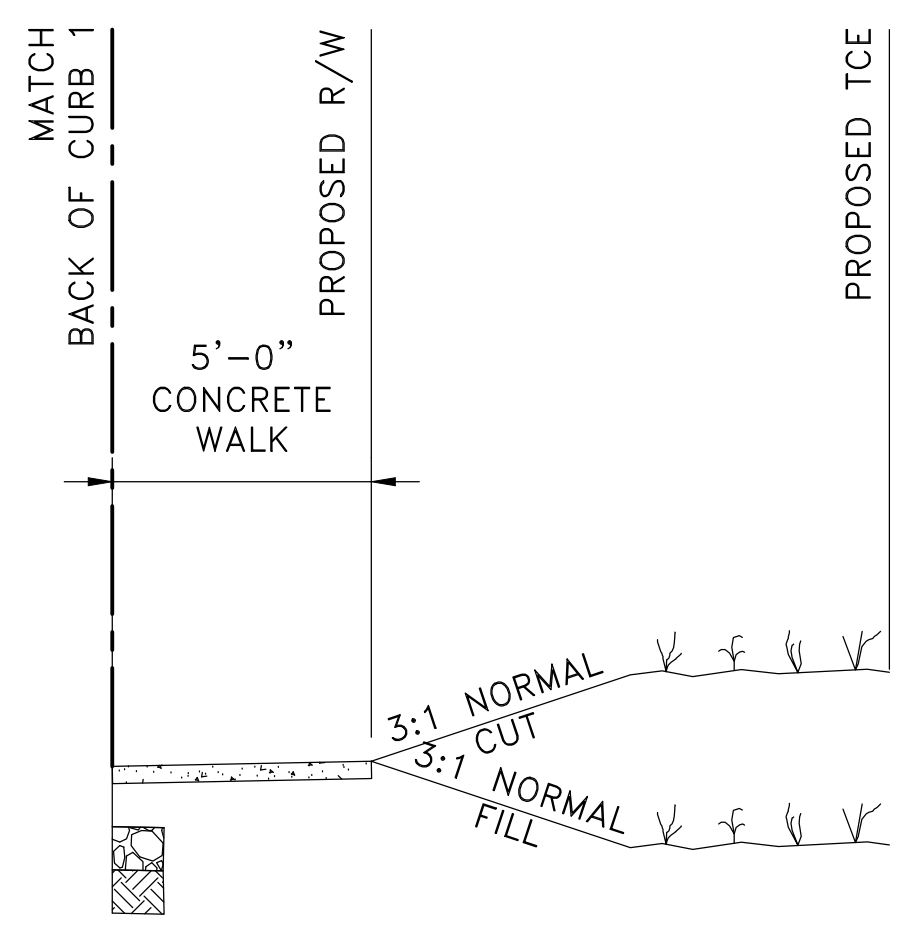
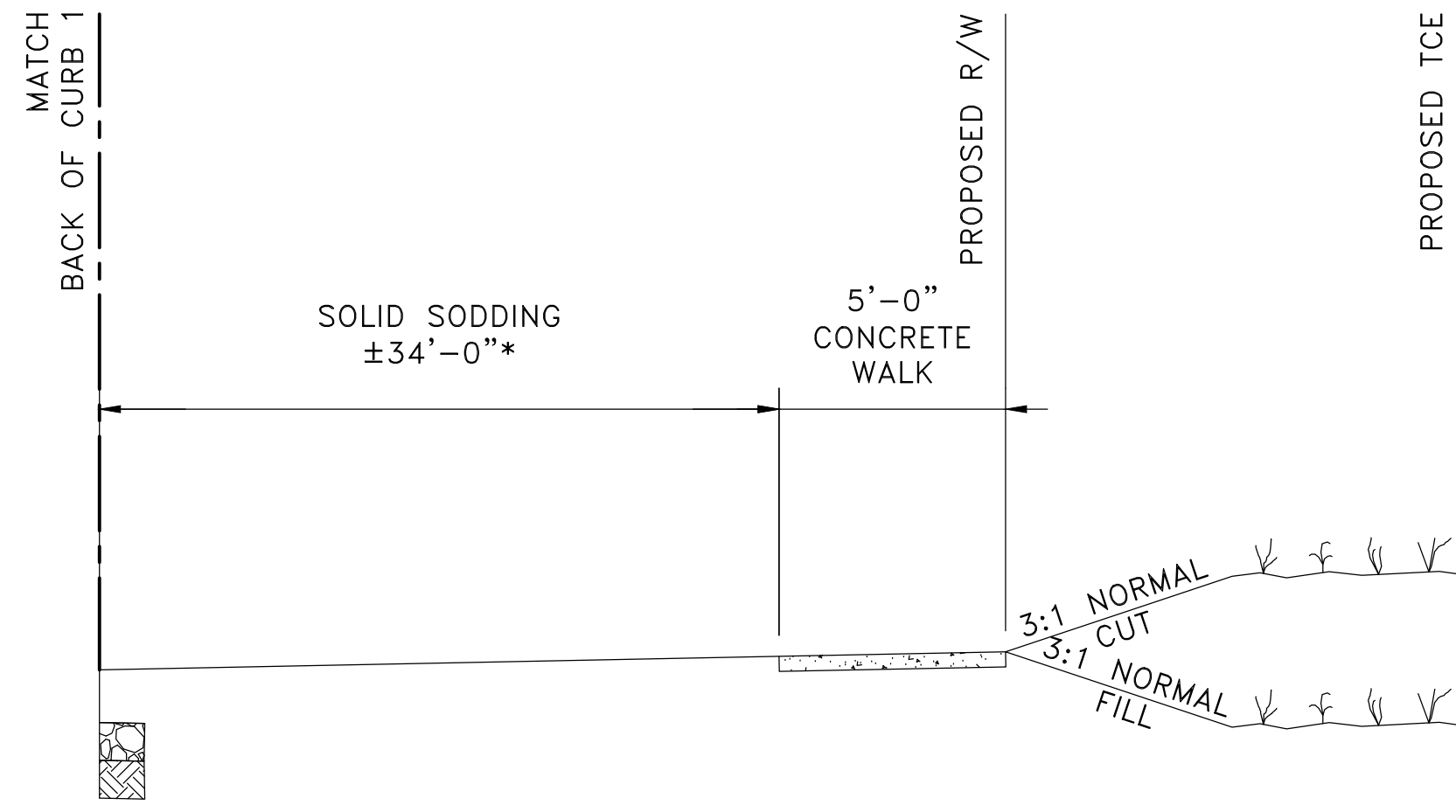
CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD STREET RECONSTRUCTION  
 TYPICAL SECTIONS (2)

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



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SCALE N.T.S.
PROJECT NO. CLR 07-17-ST-357
SHEET NO. C11



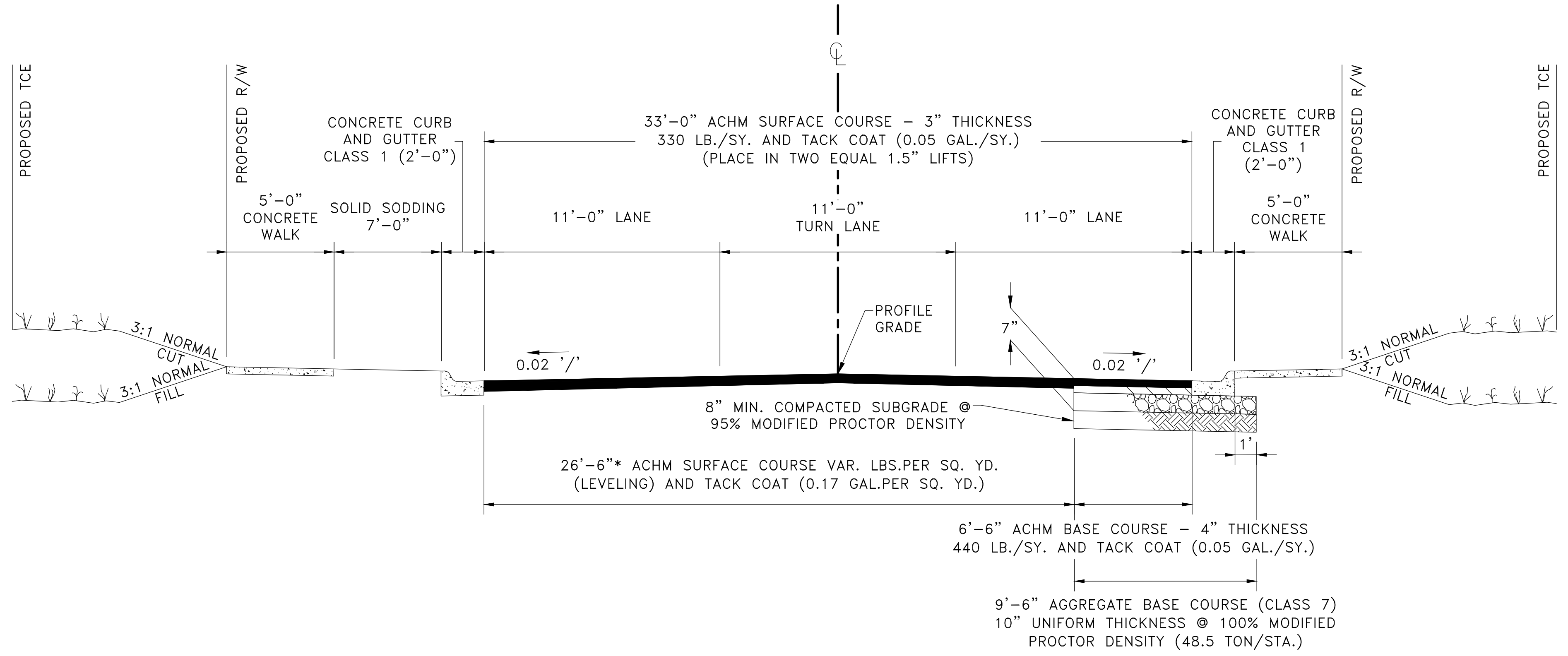
NOTES:  
 \* BEGINS TO TRANSITION FROM 34' TO 0'  
 FROM STA. 18+62.50 TO STA. 18+85.92

**TYPICAL SECTION-CHICOT ROAD**

STA 17+53.77 TO STA. 18+85.92 - RT. OF BACK OF CURB

**TYPICAL SECTION-CHICOT ROAD**

STA 18+85.92 TO STA. 20+06.78 - RT. OF BACK OF CURB

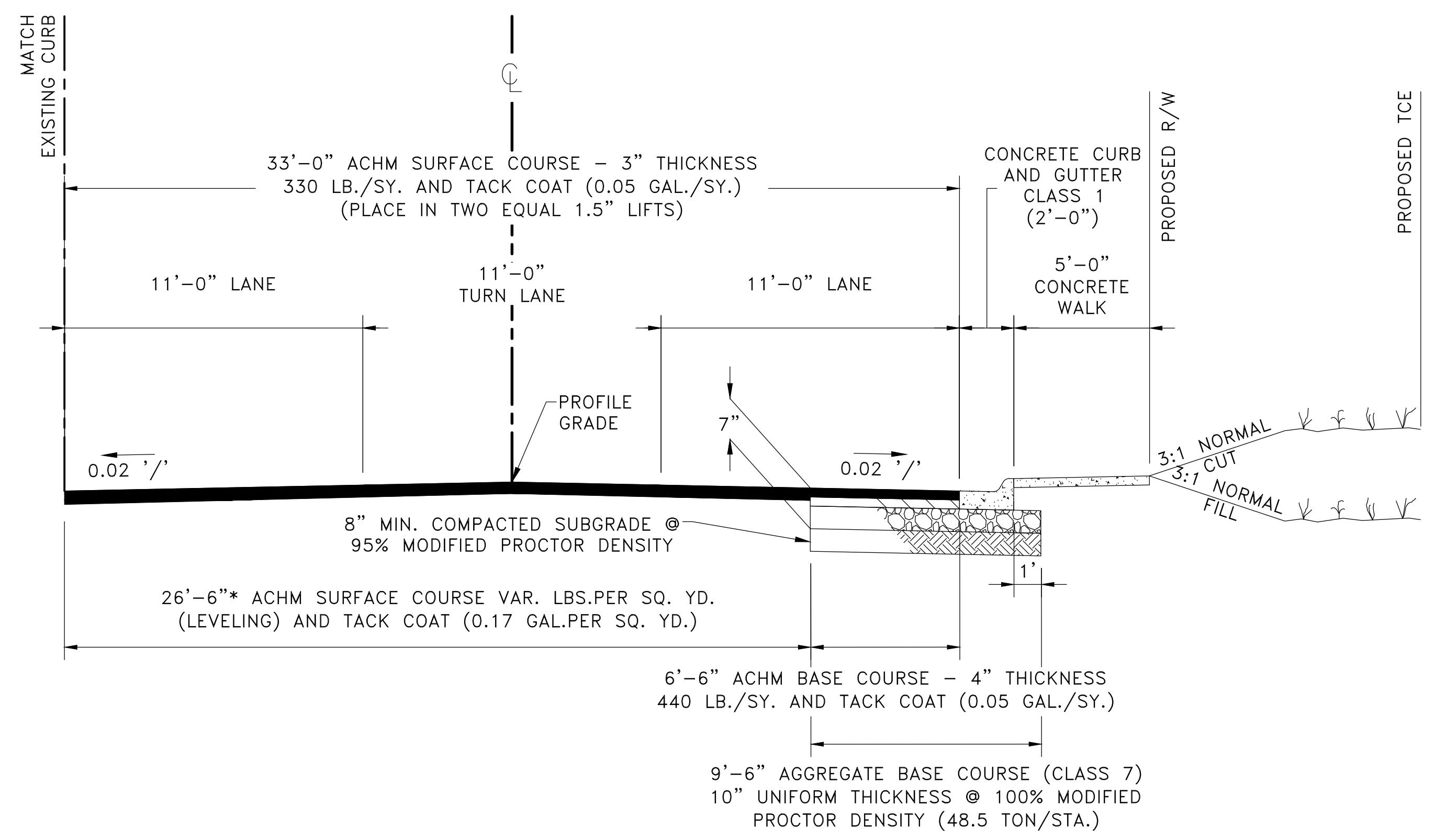


**TYPICAL SECTION-CHICOT ROAD**

STA 20+06.78 TO STA. 20+99.38

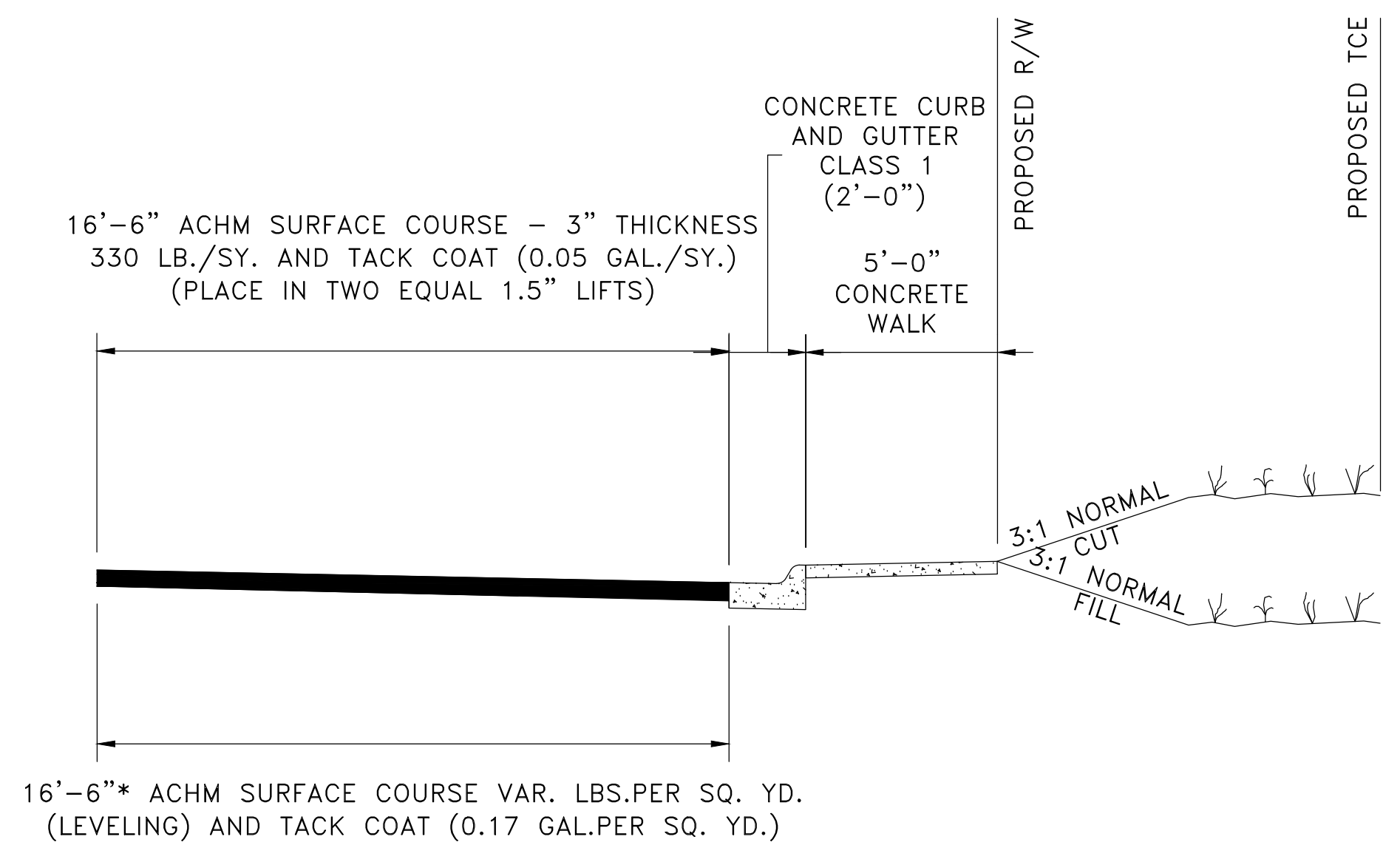
90% SUBMITTAL

REVISIONS	DATE



## TYPICAL SECTION-CHICOT ROAD

STA. 20+99.38 TO STA. 24+64.21  
 STA. 24+64.21 TO STA. 27+42.60 - LT. OF  $\mathcal{C}$   
 STA. 27+42.60 TO STA. 28+55.12

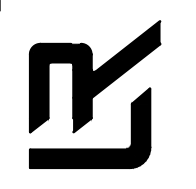


## TYPICAL SECTION-CHICOT ROAD

STA. 24+64.21 TO STA. 27+42.60 - RT. OF  $\mathcal{C}$

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD STREET RECONSTRUCTION  
 TYPICAL SECTIONS (3)

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
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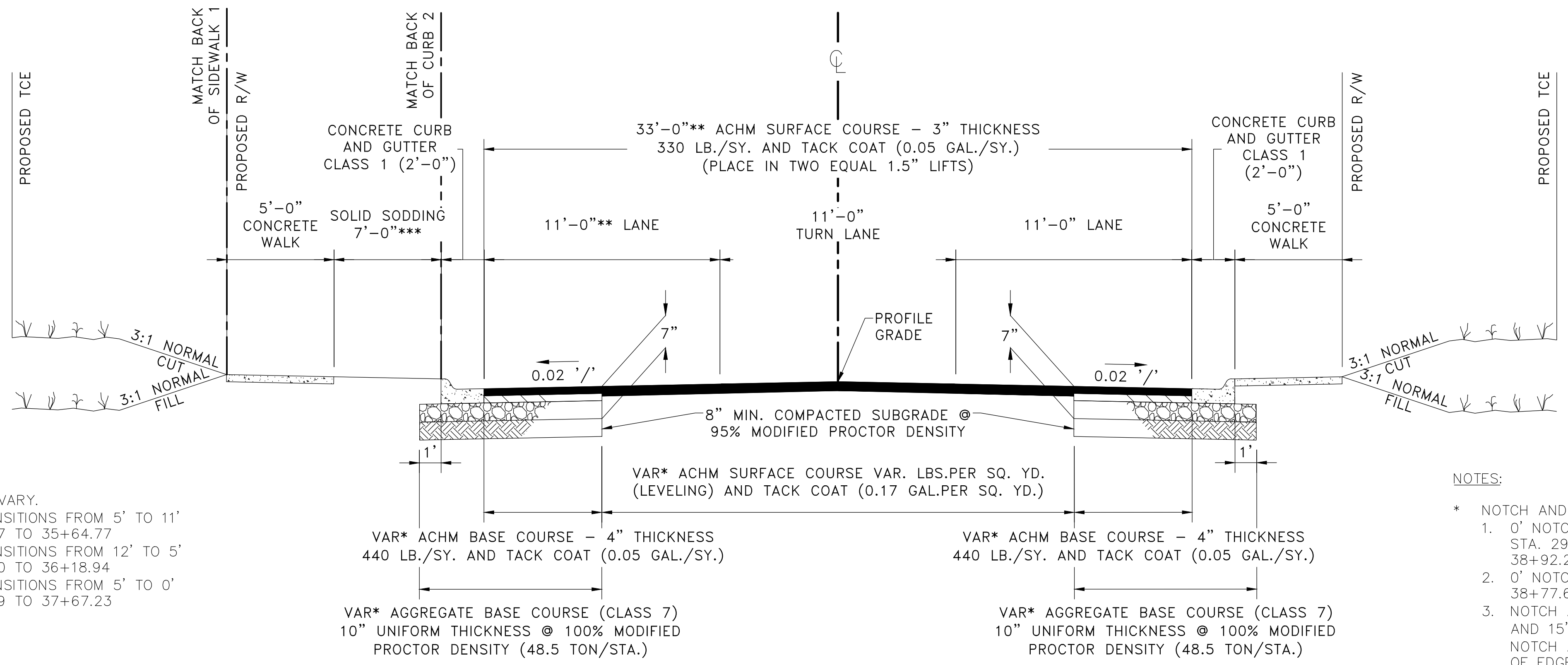


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DATE 11-15-2019
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PROJECT NO. CLR 07-17-ST-357
SHEET NO. C12

90% SUBMITTAL

REVISIONS	DATE



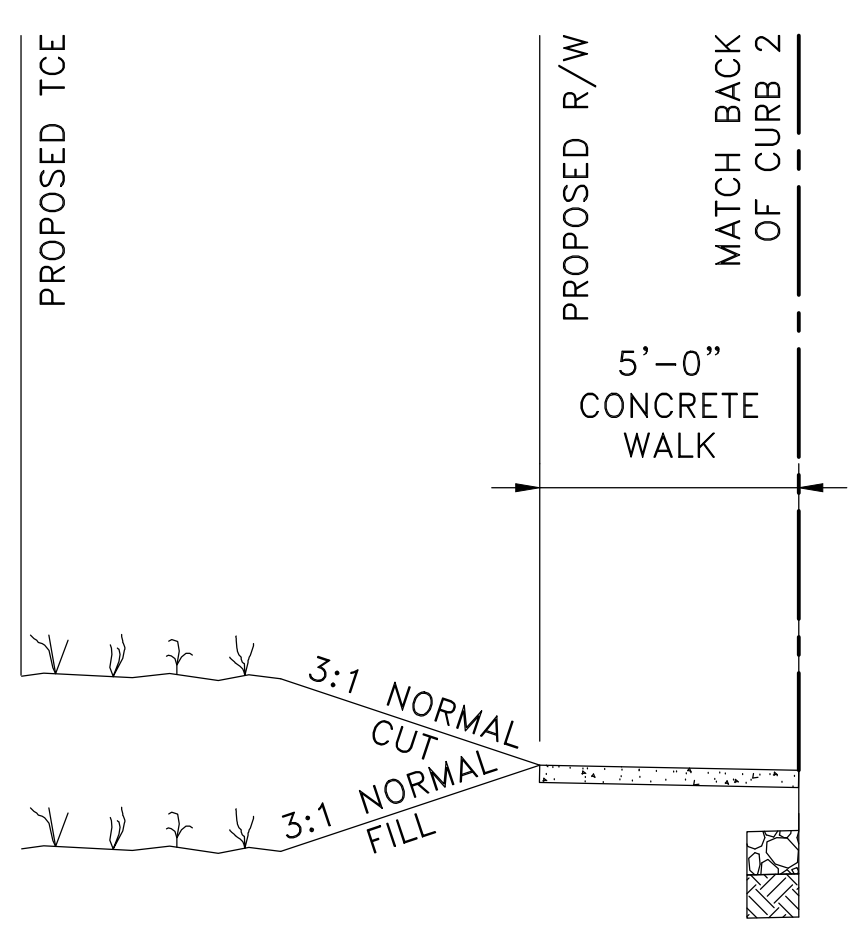
- NOTES:
- \*\*\* SOLID SODDING WIDTHS VARY.
- SOLID SODDING TRANSITIONS FROM 5' TO 11' FROM STA. 34+42.07 TO 35+64.77
  - SOLID SODDING TRANSITIONS FROM 12' TO 5' FROM STA. 35+93.80 TO 36+18.94
  - SOLID SODDING TRANSITIONS FROM 5' TO 0' FROM STA. 37+48.99 TO 37+67.23

- NOTES:
- \* NOTCH AND WIDEN WIDTH VARIES.
- 0' NOTCH AND WIDEN ON RIGHT SIDE FROM STA. 29+76.96 TO STA. 33+78.03 AND STA. 38+92.28 TO STA. 39+25.00
  - 0' NOTCH AND WIDEN ON LEFT SIDE FROM STA. 38+77.61 TO STA. 39+25.00.
  - NOTCH AND WIDEN WIDTH VARIES BETWEEN 4' AND 15' REMAINDER OF SECTION. IN 4' TO 15' NOTCH AND WIDEN SECTION SAW-CUT 1' INSIDE OF EDGE OF EXISTING PAVEMENT FOR NOTCH AND WIDEN LIMITS.

\*\* FROM STA. 35+13.63 TO 39+25.00 THE LEFT SIDE TRAVEL LANE WIDTH TRANSITIONS FROM 11' TO 22'-6" AND THE ASPHALT SECTION WIDTH TRANSITIONS FROM 33' TO 44'-6".

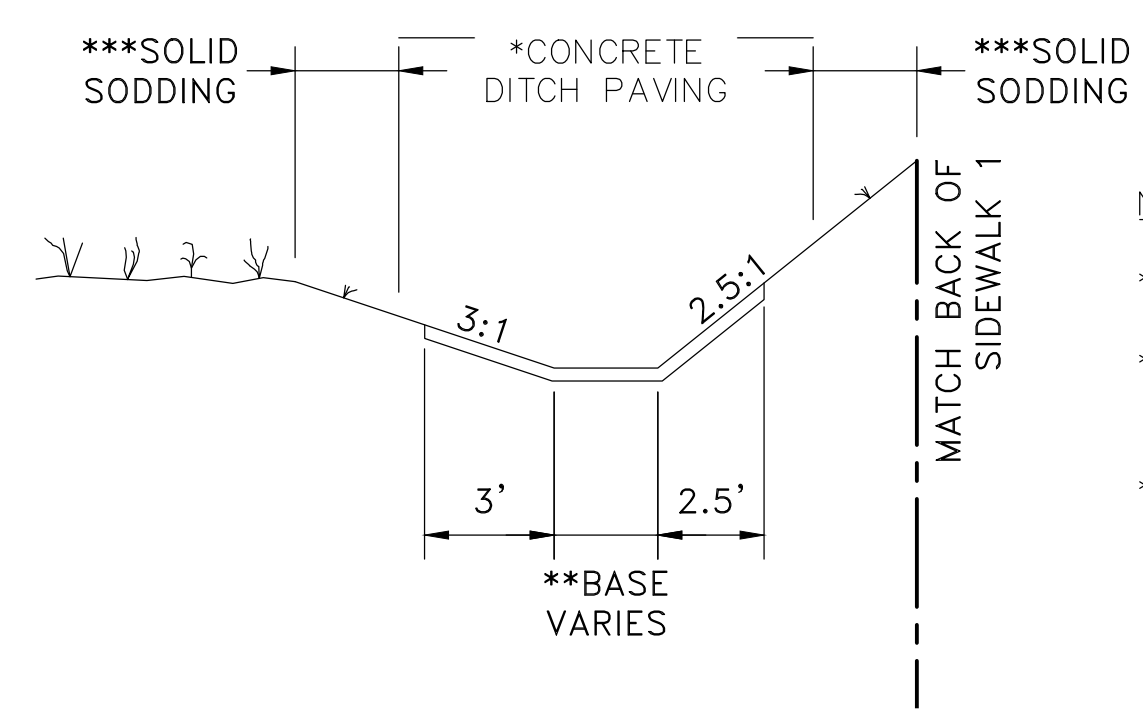
## TYPICAL SECTION-CHICOT ROAD

STA 29+76.96 TO STA. 39+25.00  
 STA. 29+66.00 TO STA. 31+90.00 - LT. OF BACK OF SIDEWALK LT.  
 STA. 37+67.23 TO STA. 39+25.00 - RT. OF BACK OF CURB LT.



## TYPICAL SECTION-CHICOT ROAD

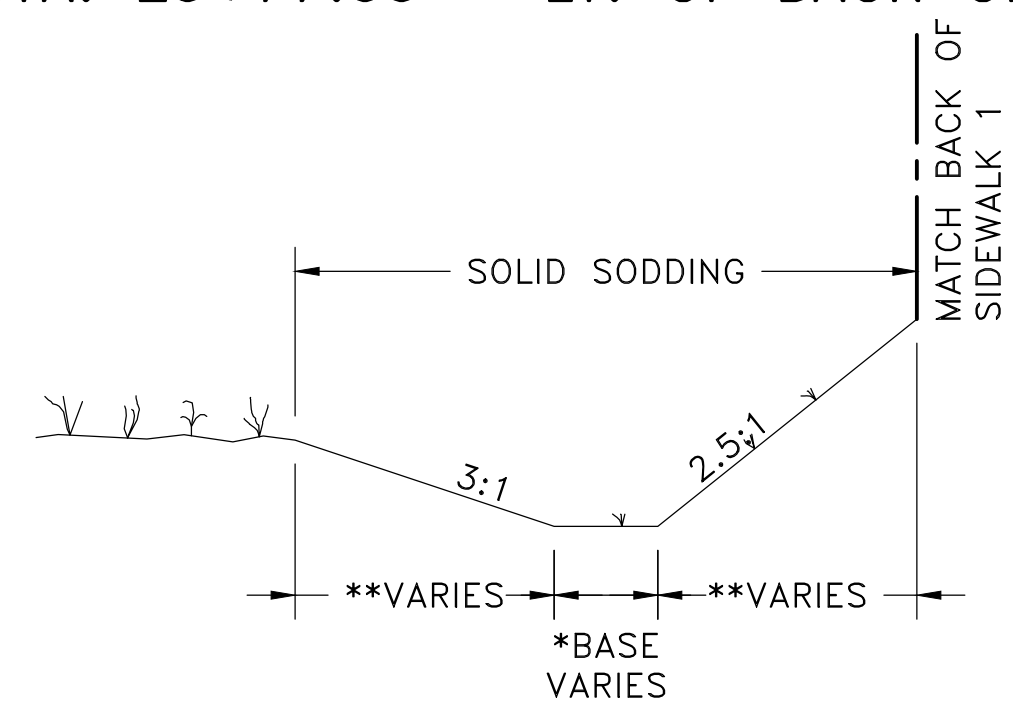
STA 37+67.23 TO STA. 39+25.00 - LT. OF BACK OF CURB LT.



- NOTES:
- \* SEE ARDOT STANDARD DRAWING CDP-1 (SHEET C9).
- \*\* BASE VARIES FROM 7'-4" AT STA. 29+66 TO 4'-8 1/2" AT STA. 29+77.
- \*\*\* SOLID SODDING VARIES FROM 5'-4 5/8" TO 5'-11 3/8" (LT.) AND 8'-10 3/8" TO 9'-4 1/8" (RT.)

## TYPICAL SECTION-CHICOT ROAD

STA. 29+66.00 TO STA. 29+77.00 - LT. OF BACK OF SIDEWALK LT.



- NOTES:
- \* BASE TRANSITIONS FROM 4'-8 1/2" AT STA. 29+77 TO 2'-0" AT STA. 29+90. BASE REMAINS 2'-0" TO STA. 31-90.
- \*\* SOLID SODDING VARIES FROM 5'-4 5/8" TO 10'-2 5/8" (LT.) AND 11'-1 1/8" TO 15'-1/4" (RT.).

## TYPICAL SECTION-CHICOT ROAD

STA 29+77 TO STA. 31+90 - LT. OF BACK OF SIDEWALK LT.

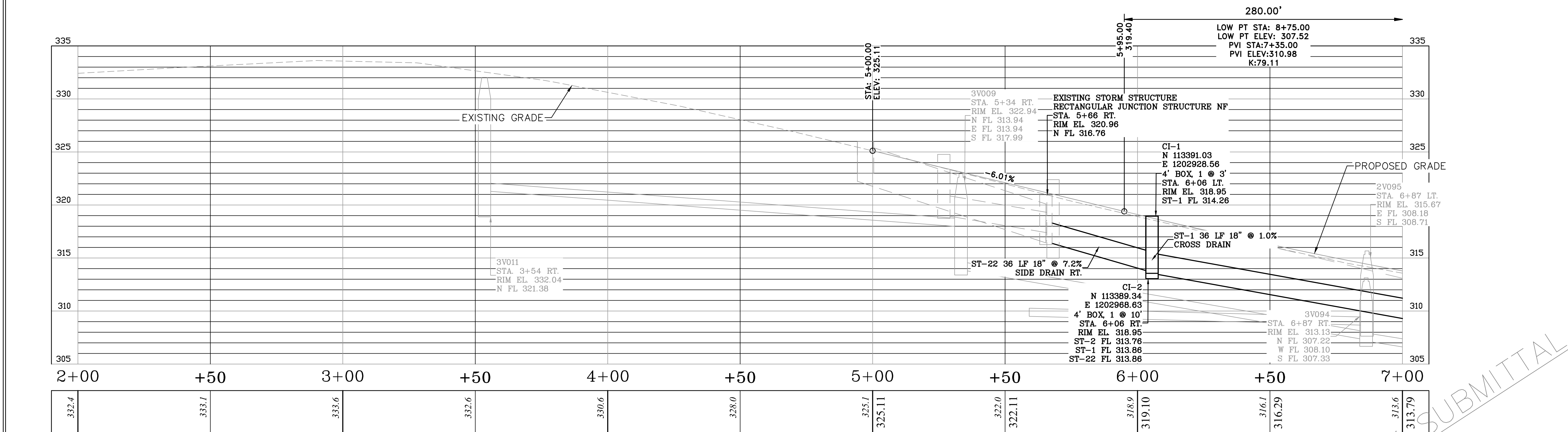
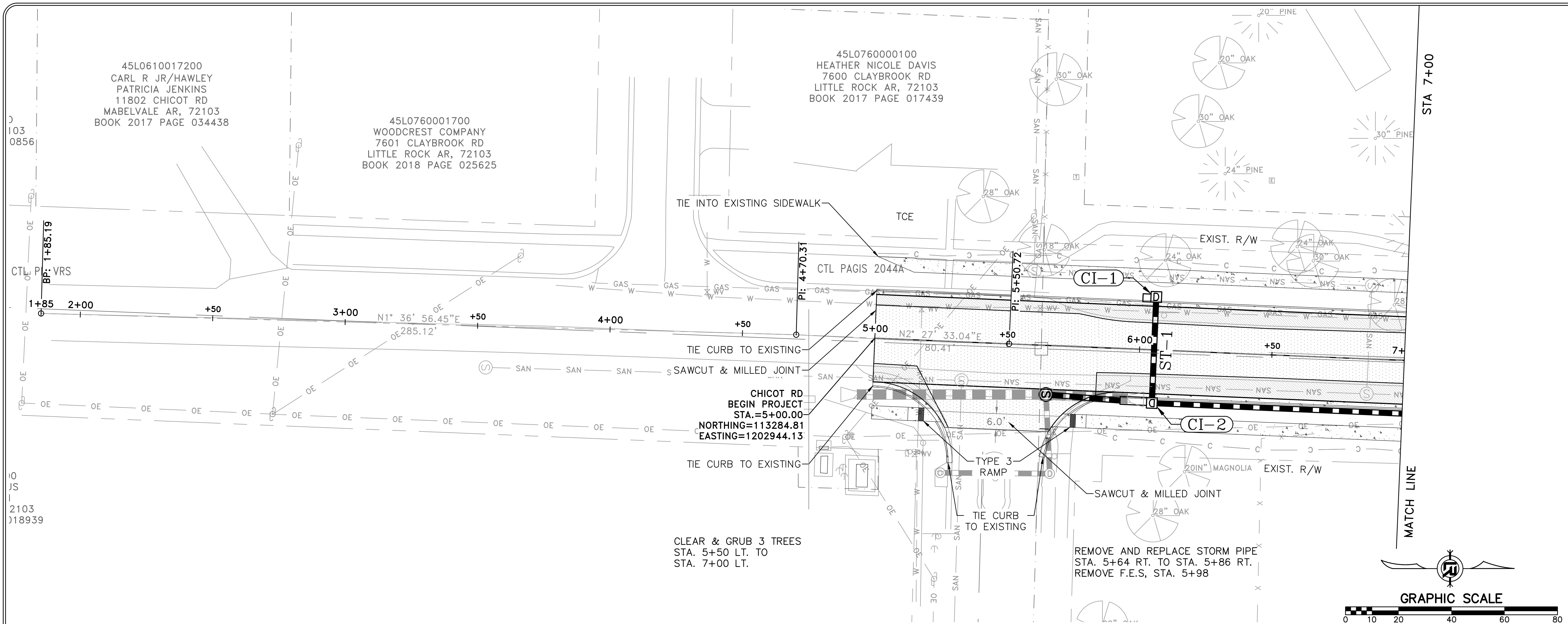
CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD STREET RECONSTRUCTION  
 TYPICAL SECTIONS (4)

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

SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 N.T.S.  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C13

90% SUBMITTAL



Station	Elevation
2+00	332.4
+50	333.7
3+00	333.6
+50	332.6
4+00	330.6
+50	328.0
5+00	325.1
+50	322.11
6+00	318.9
+50	316.1
7+00	313.6
	313.79

CHICOT RD

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (1)

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

SEAL

DRAWN BY  
 KLL  
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 COF  
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 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C14

90% SUBMITTAL

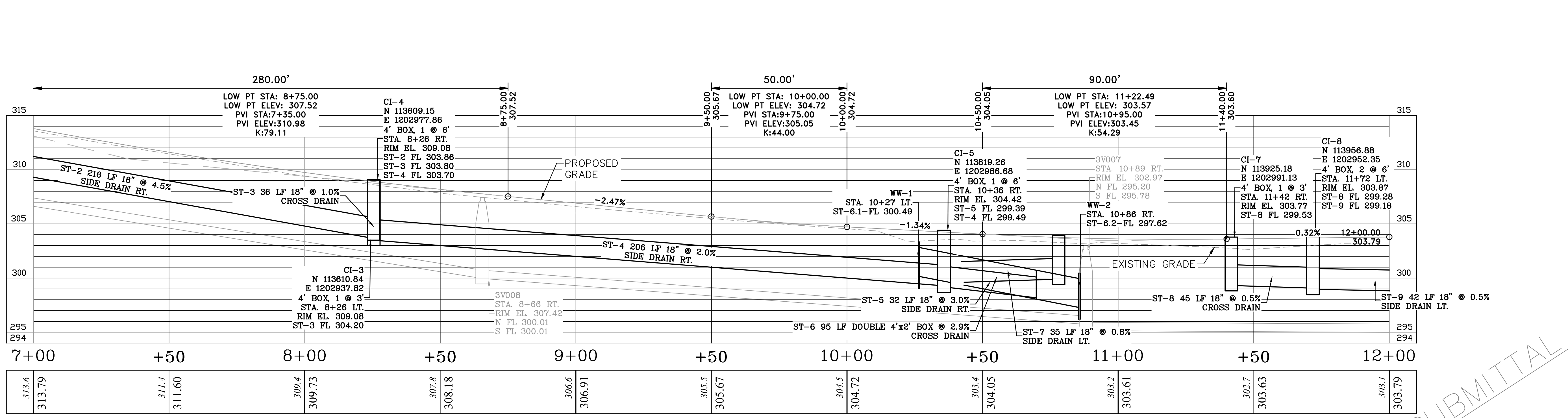
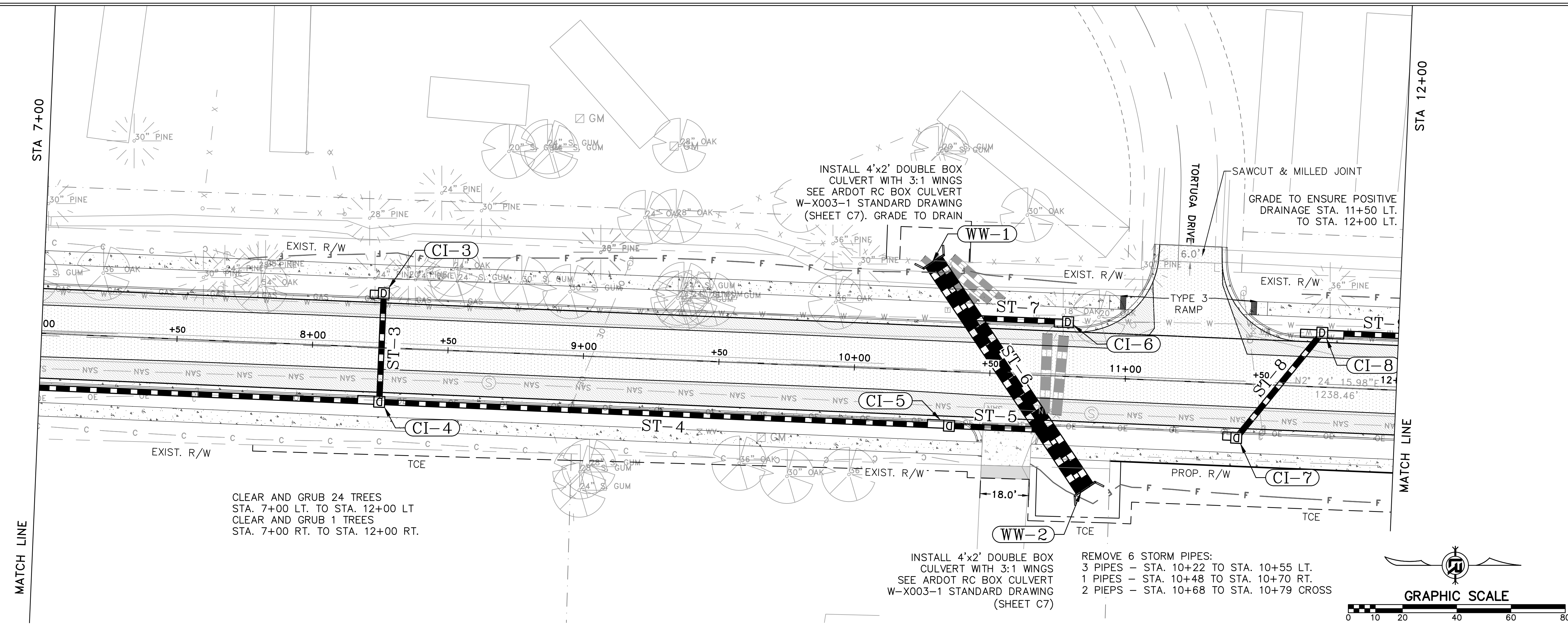
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (2)

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

SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C15



CHICOT RD

90% SUBMITTAL

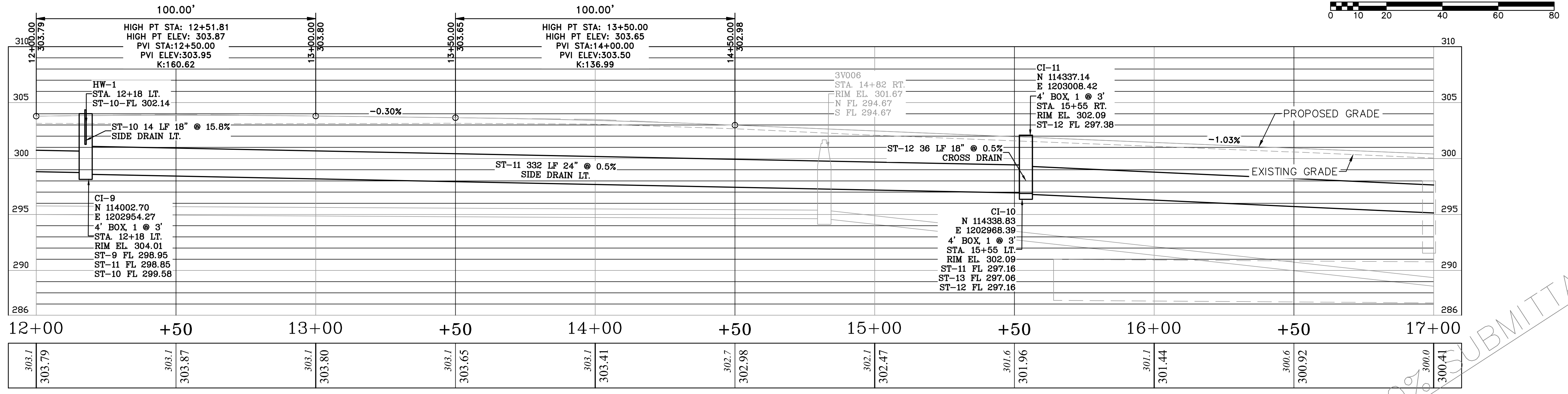
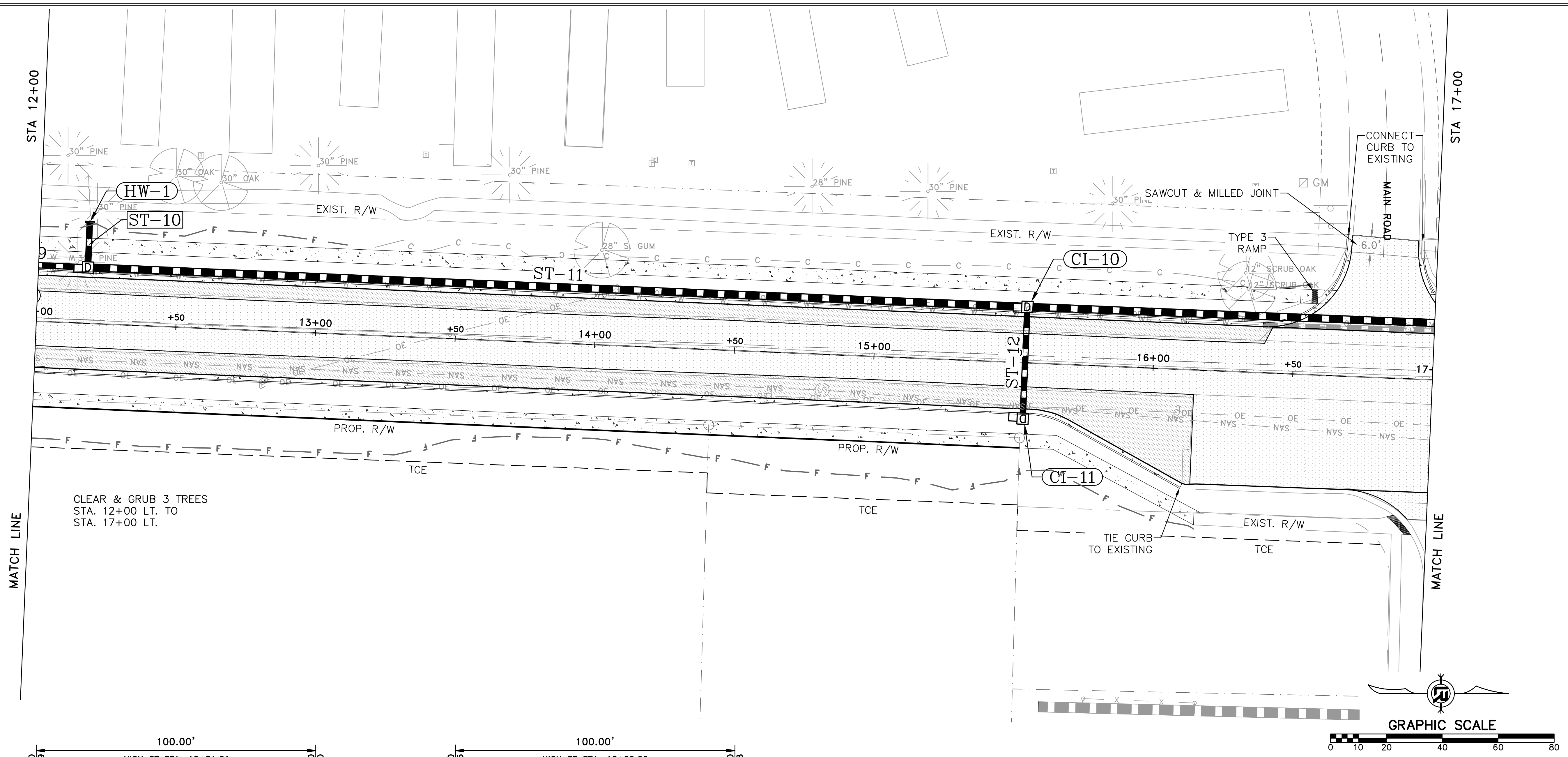
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (3)

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

SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C16



CHICOT RD

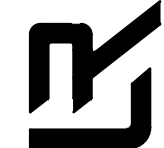
90% SUBMITTAL



REVISIONS	DATE

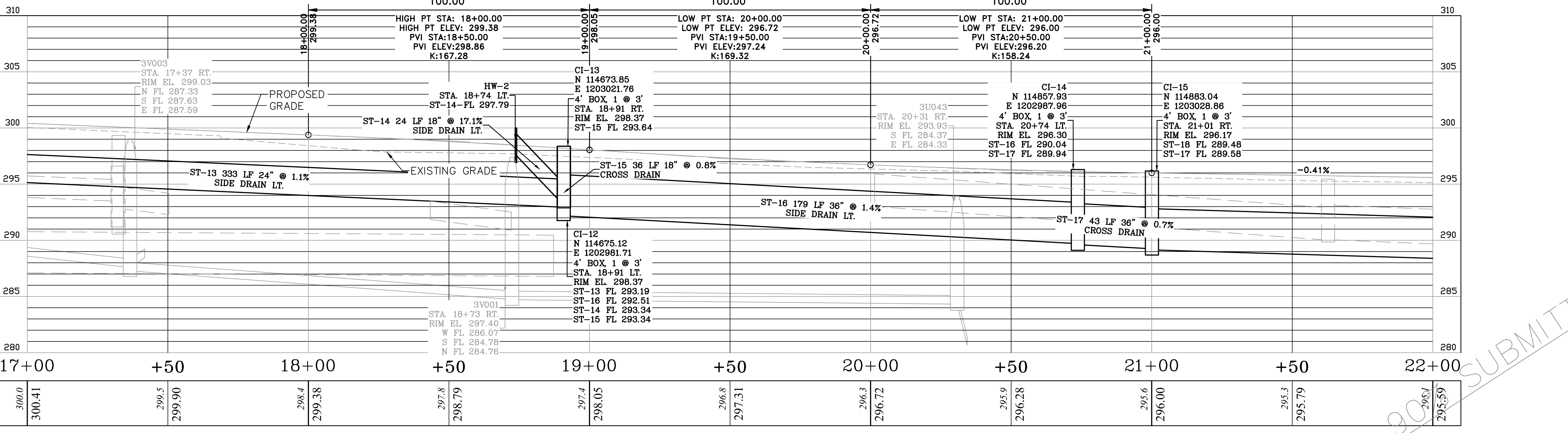
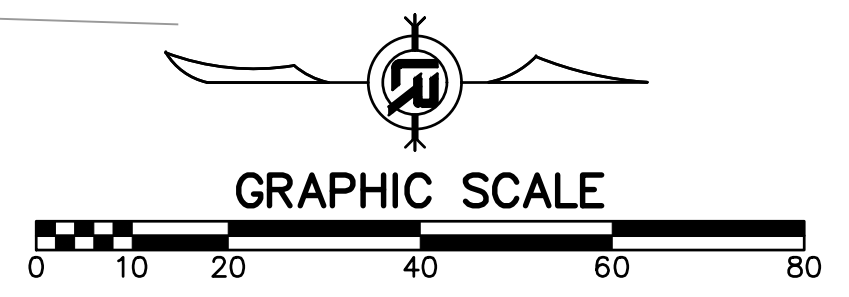
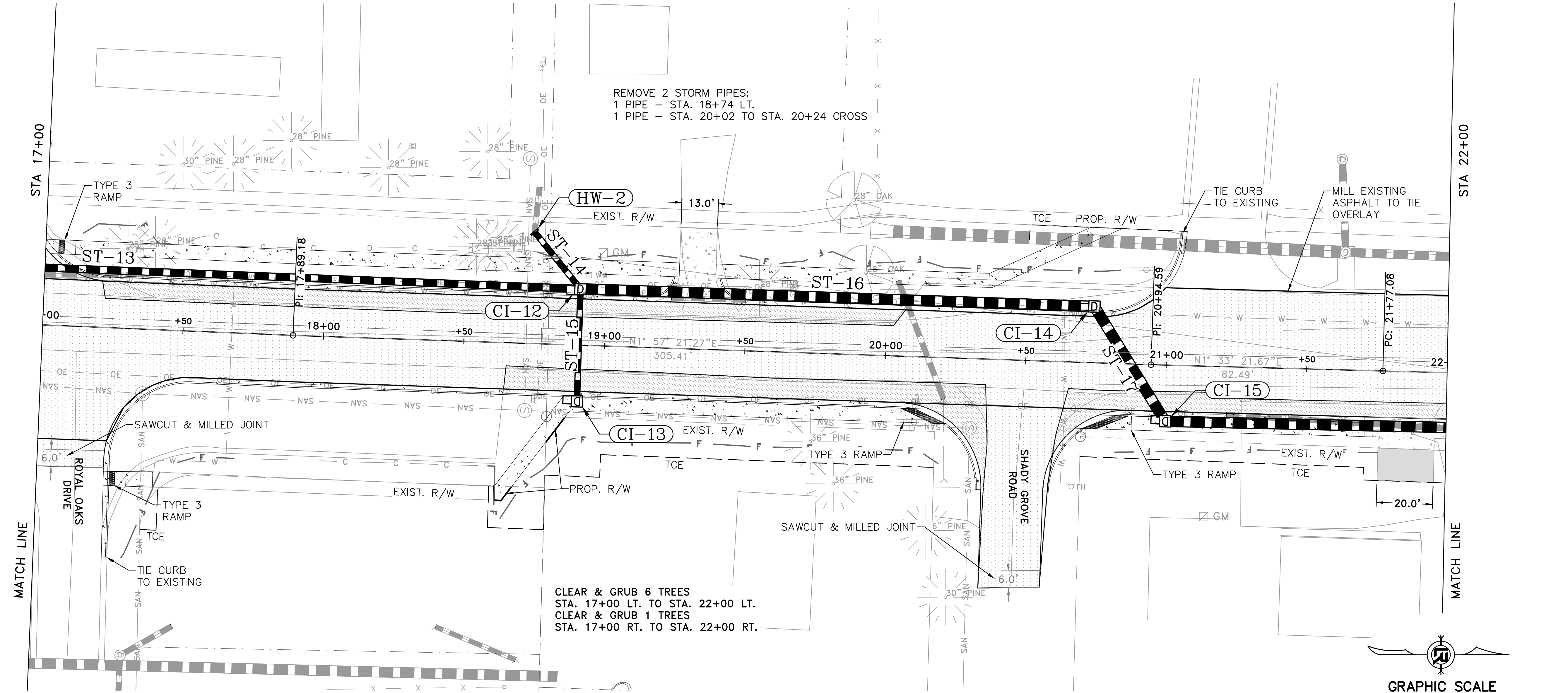
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (4)

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



SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C17



CHICOT RD

90 SUBMITTAL

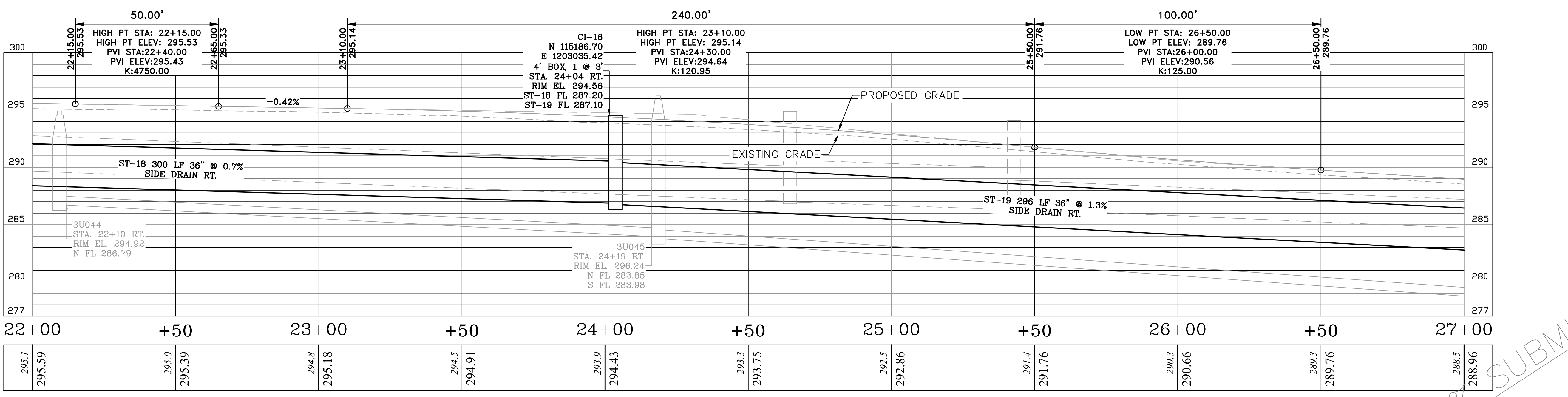
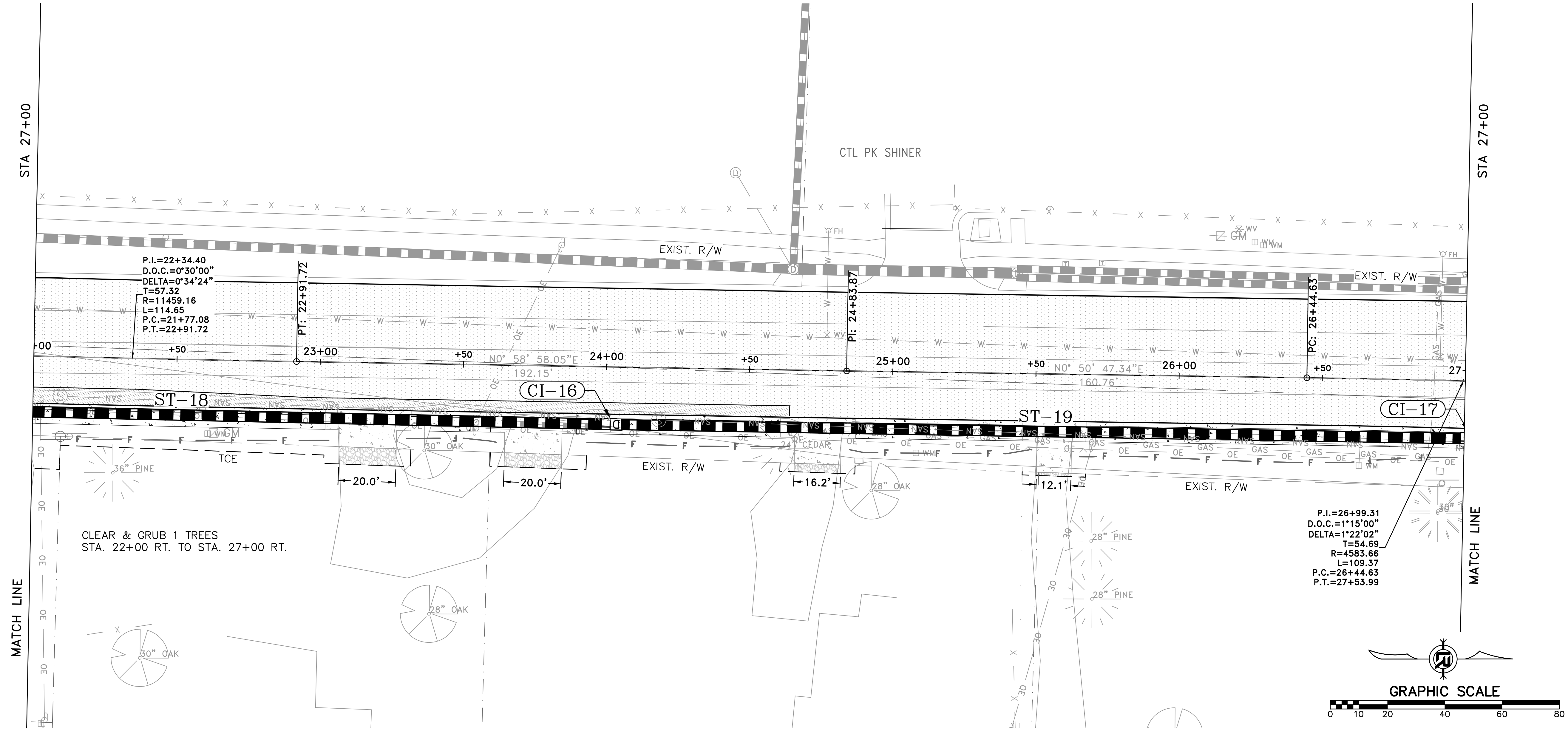
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (5)

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

SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C18



CHICOT RD

90% SUBMITTAL

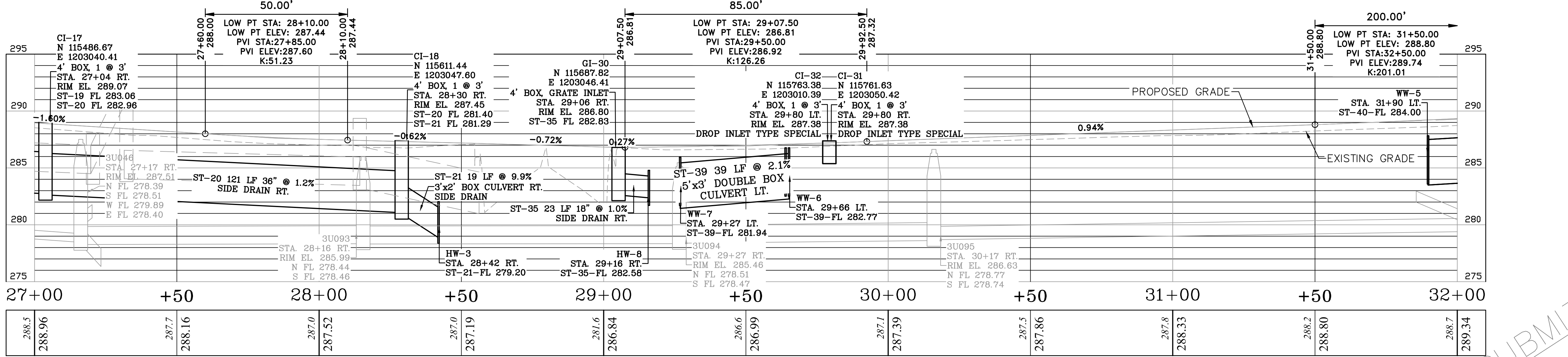
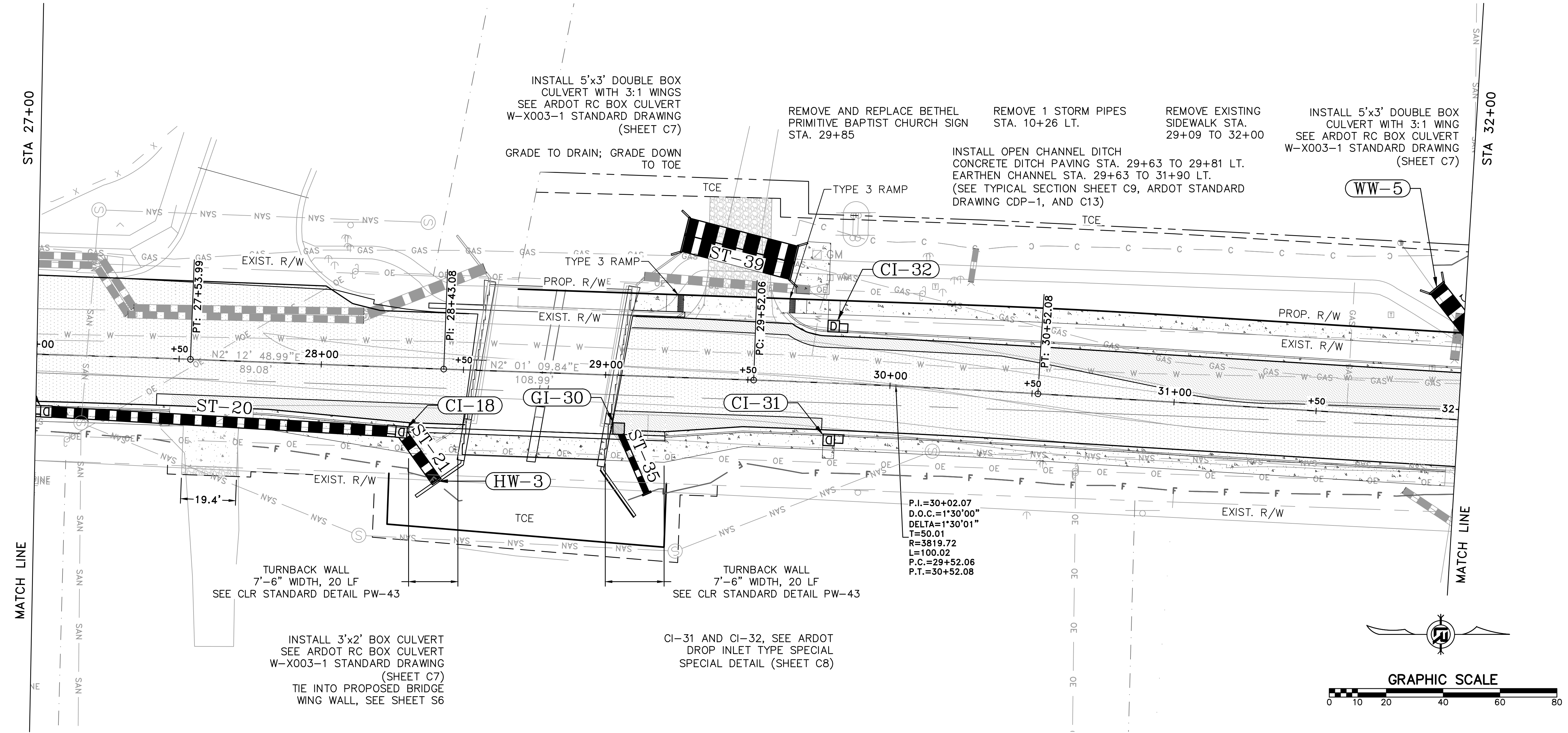
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (6)

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

SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C19



CHICOT RD

90% SUBMITTAL

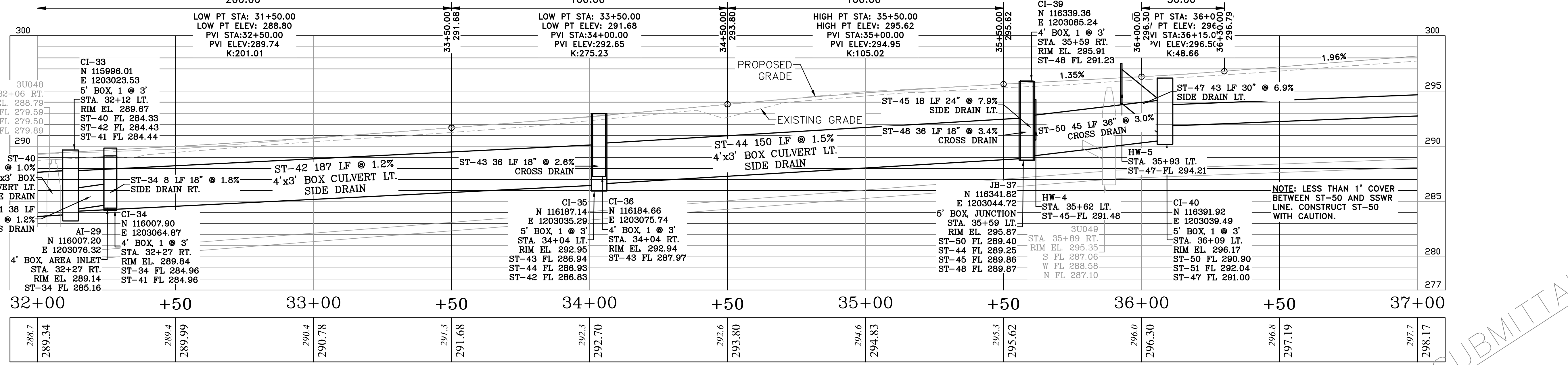
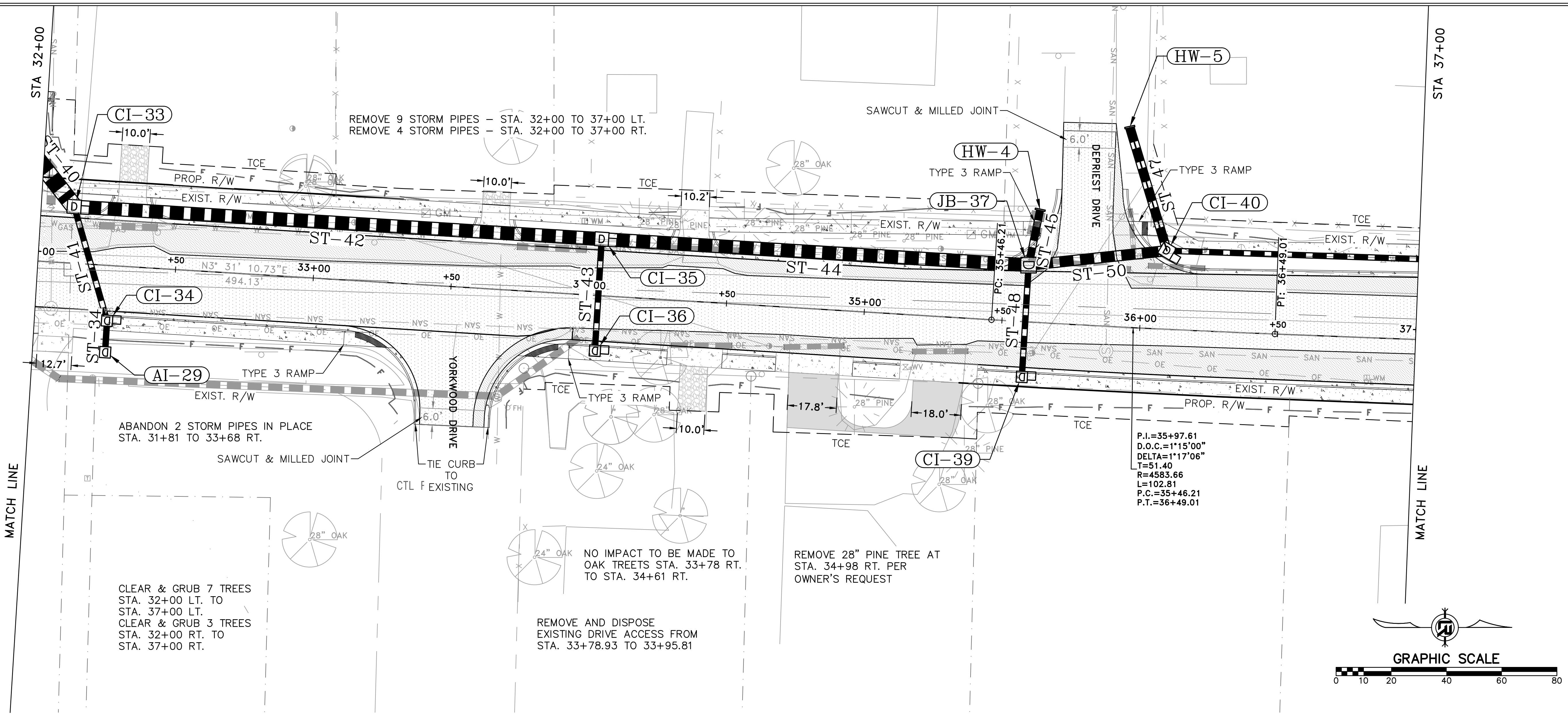
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**CHICOT ROAD RECONSTRUCTION**  
 PLAN AND PROFILE SHEET (7)

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

SEAL

DRAWN BY  
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 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
**C20**



CHICOT RD

90% SUBMITTAL

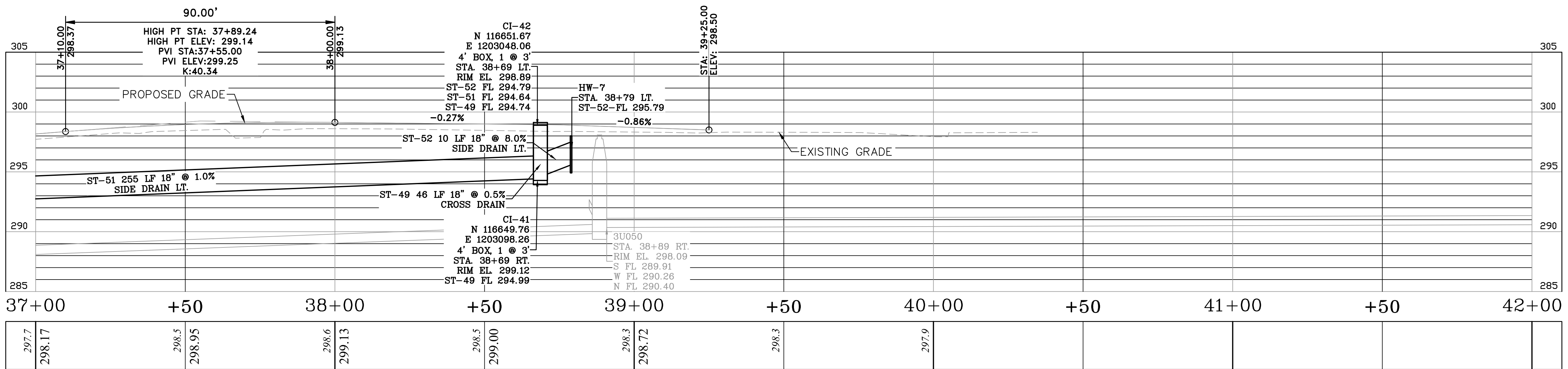
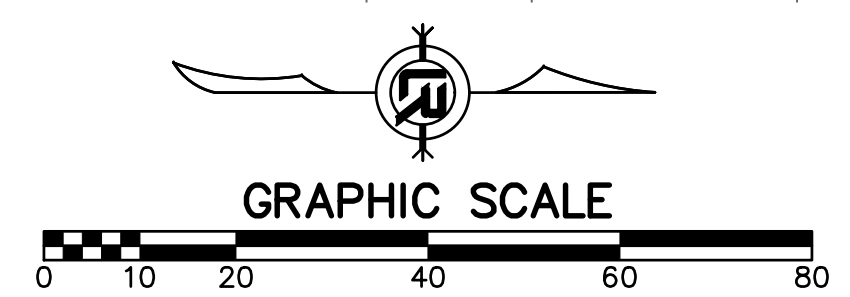
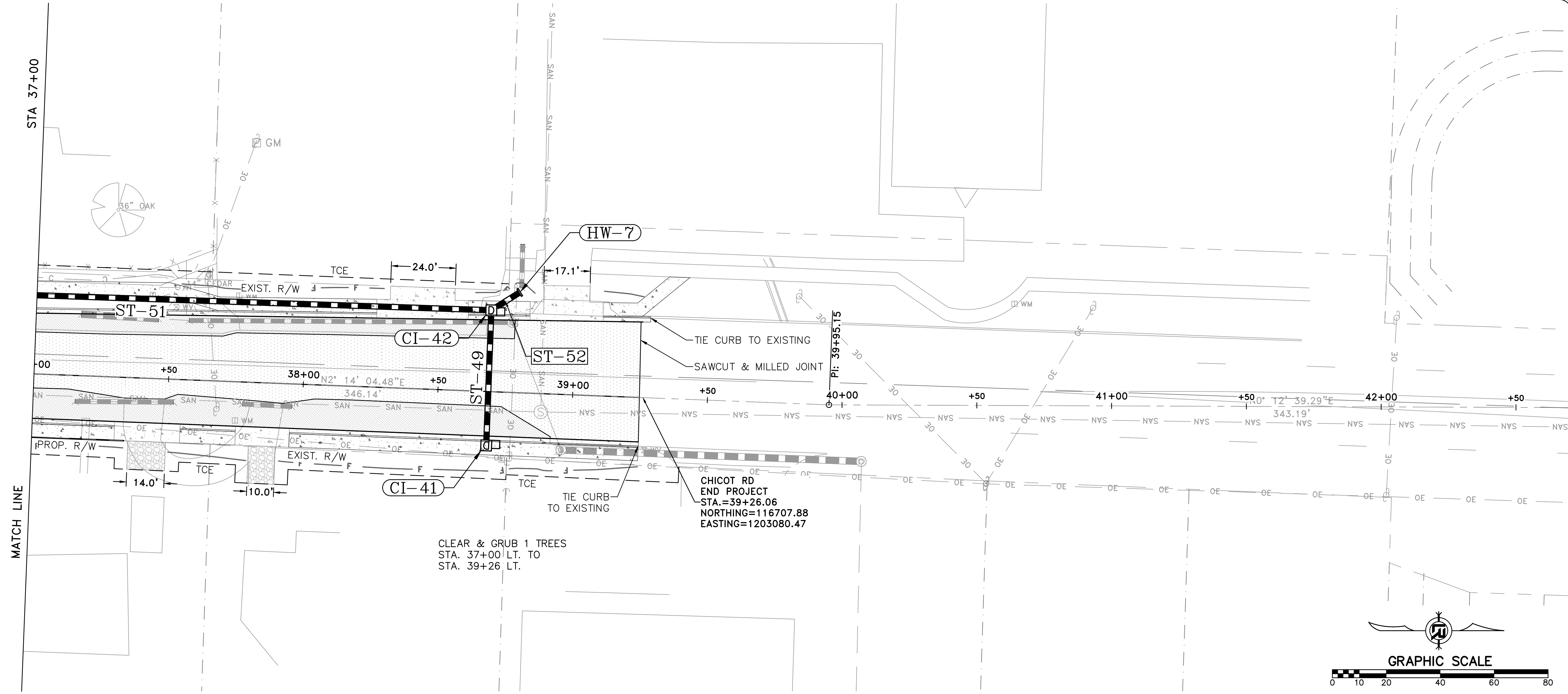
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (8)

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

SEAL

DRAWN BY  
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 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C21



CHICOT RD

90% SUBMITTAL

REVISIONS	DATE

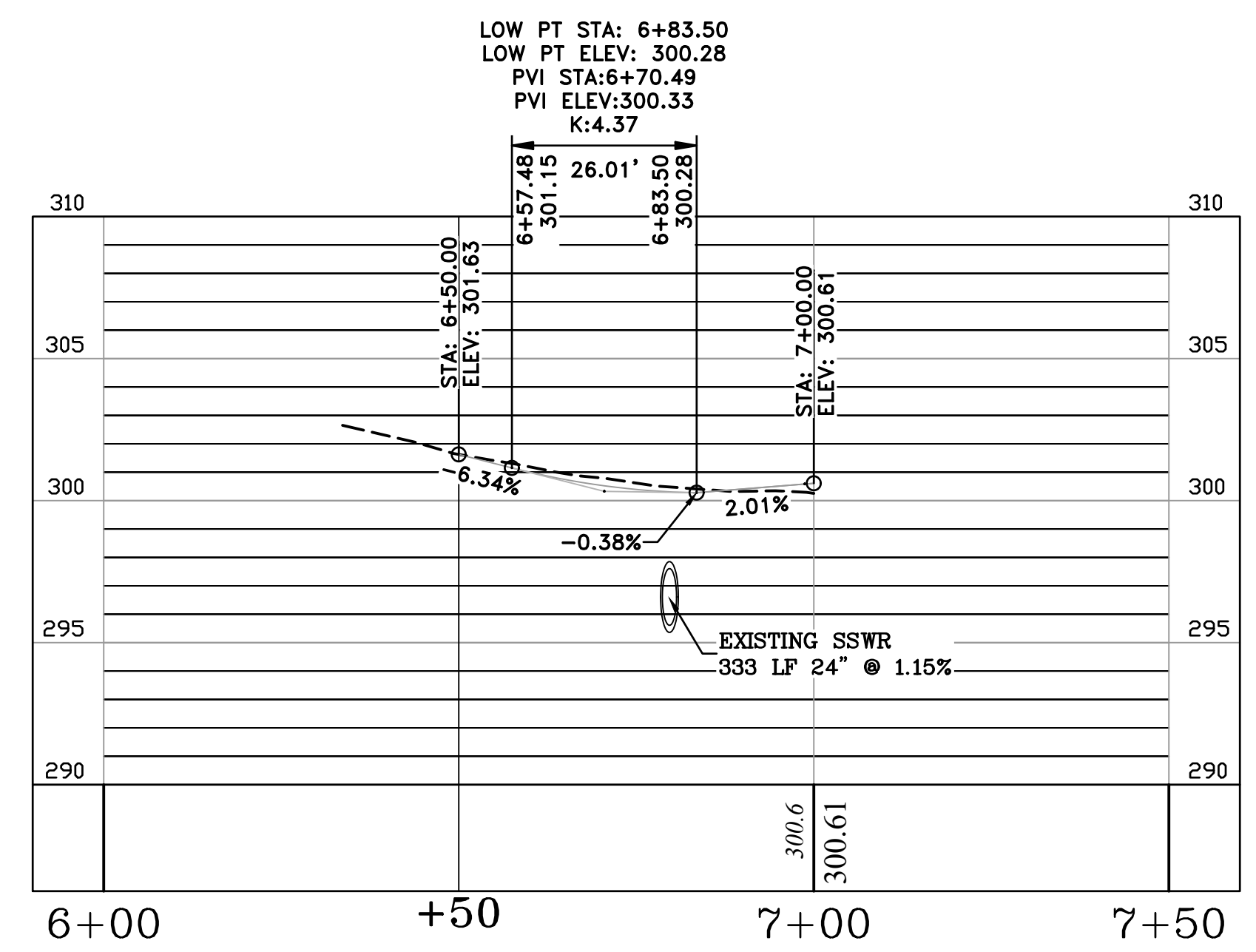
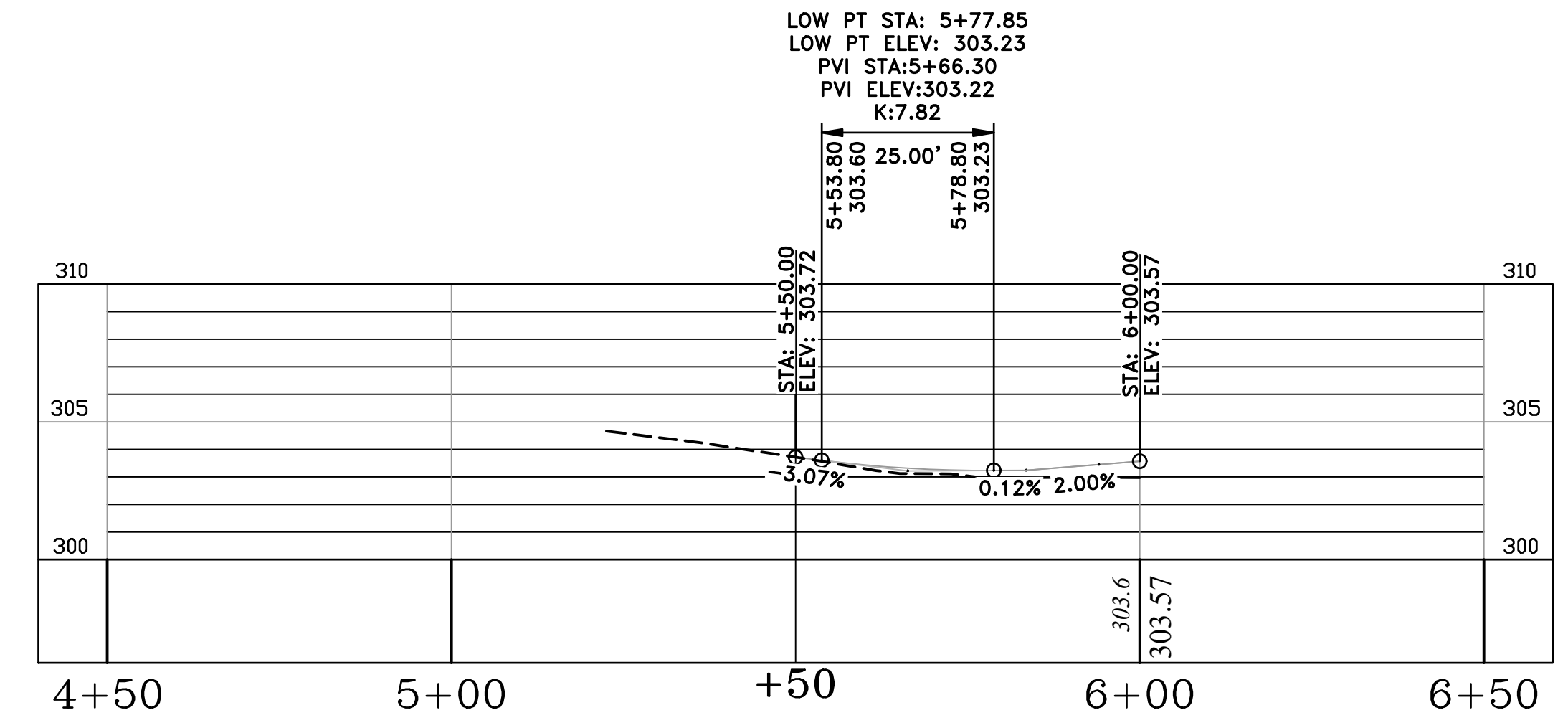
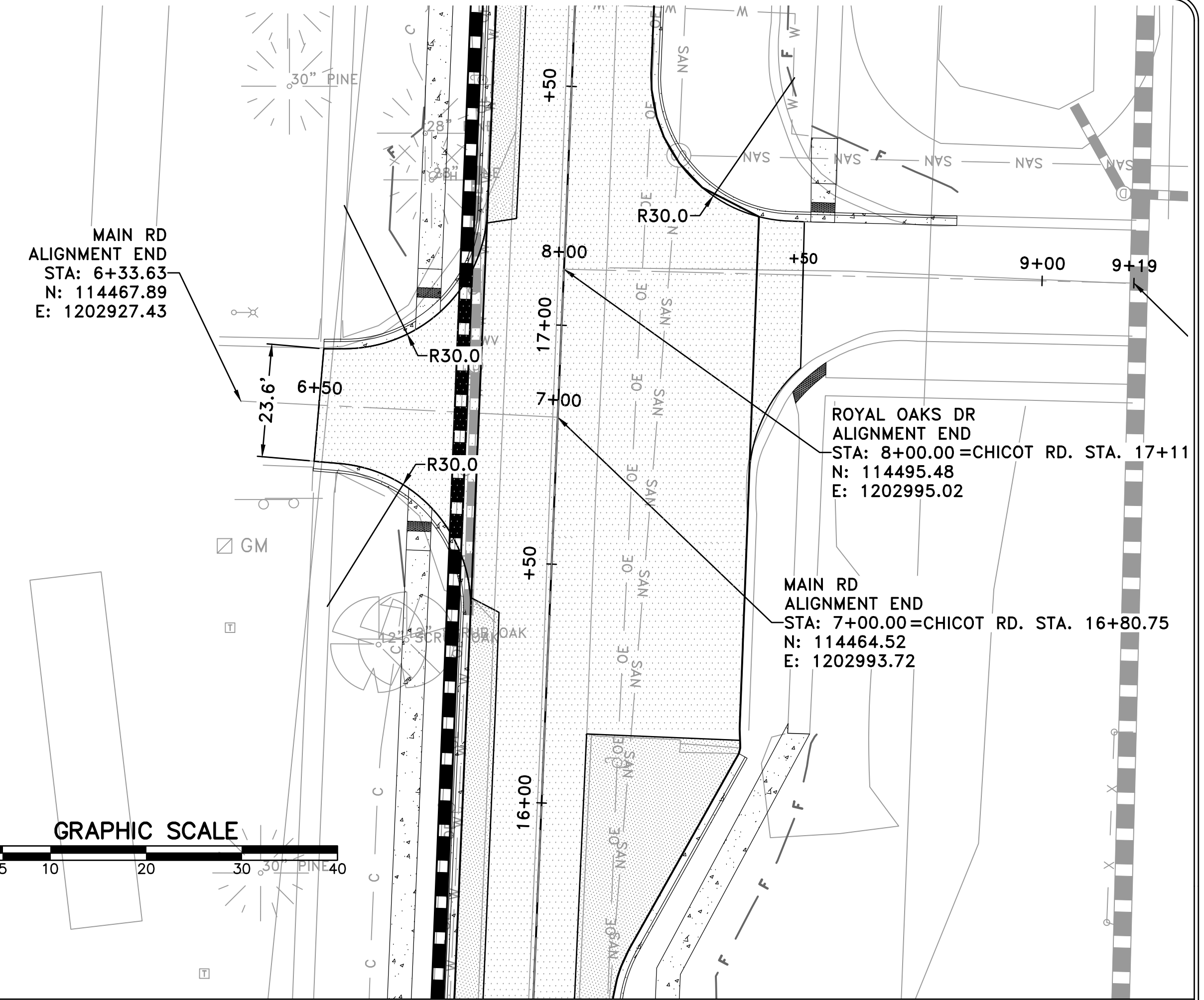
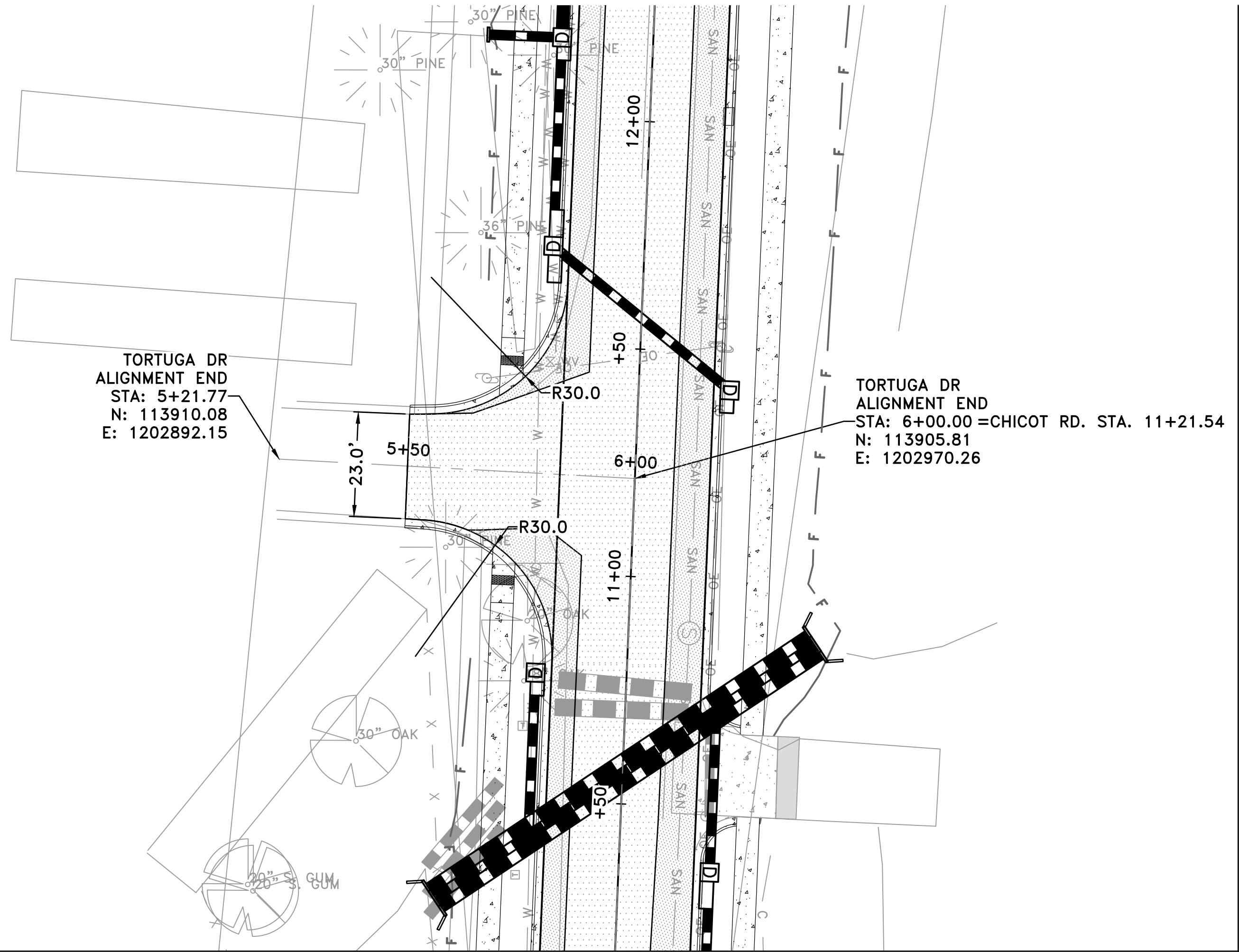
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 SIDE STREET PLAN AND PROFILES (1)

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

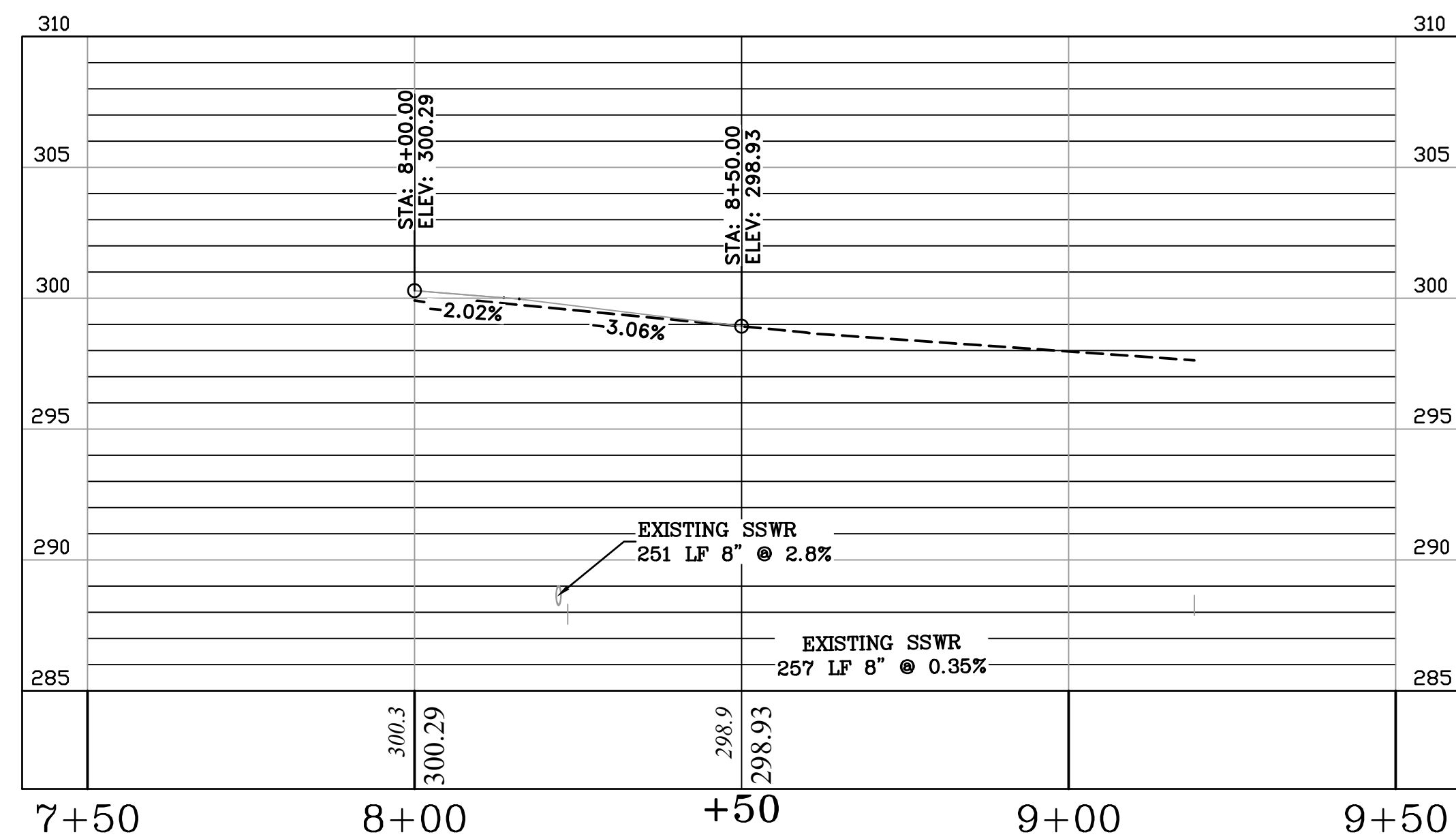
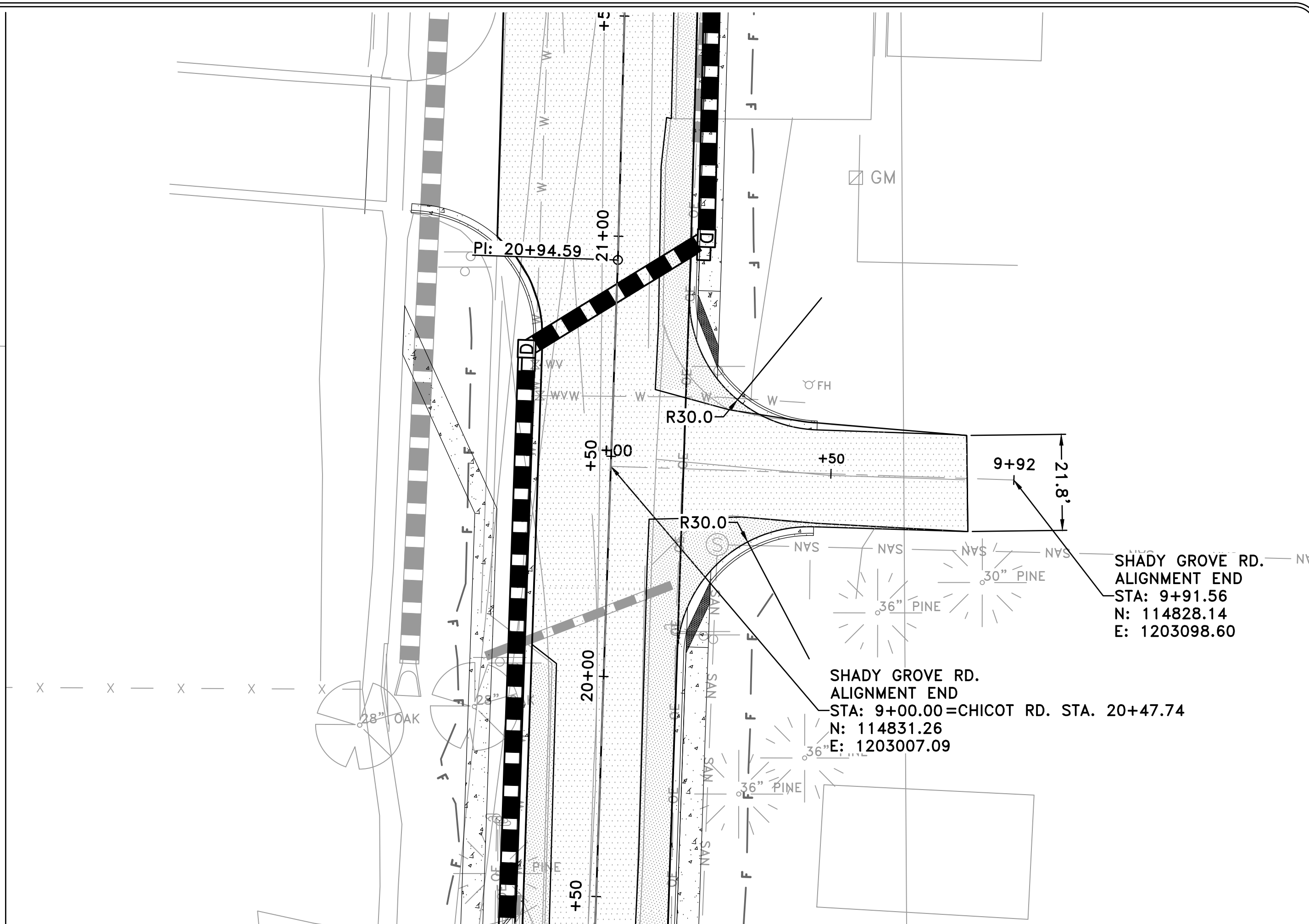
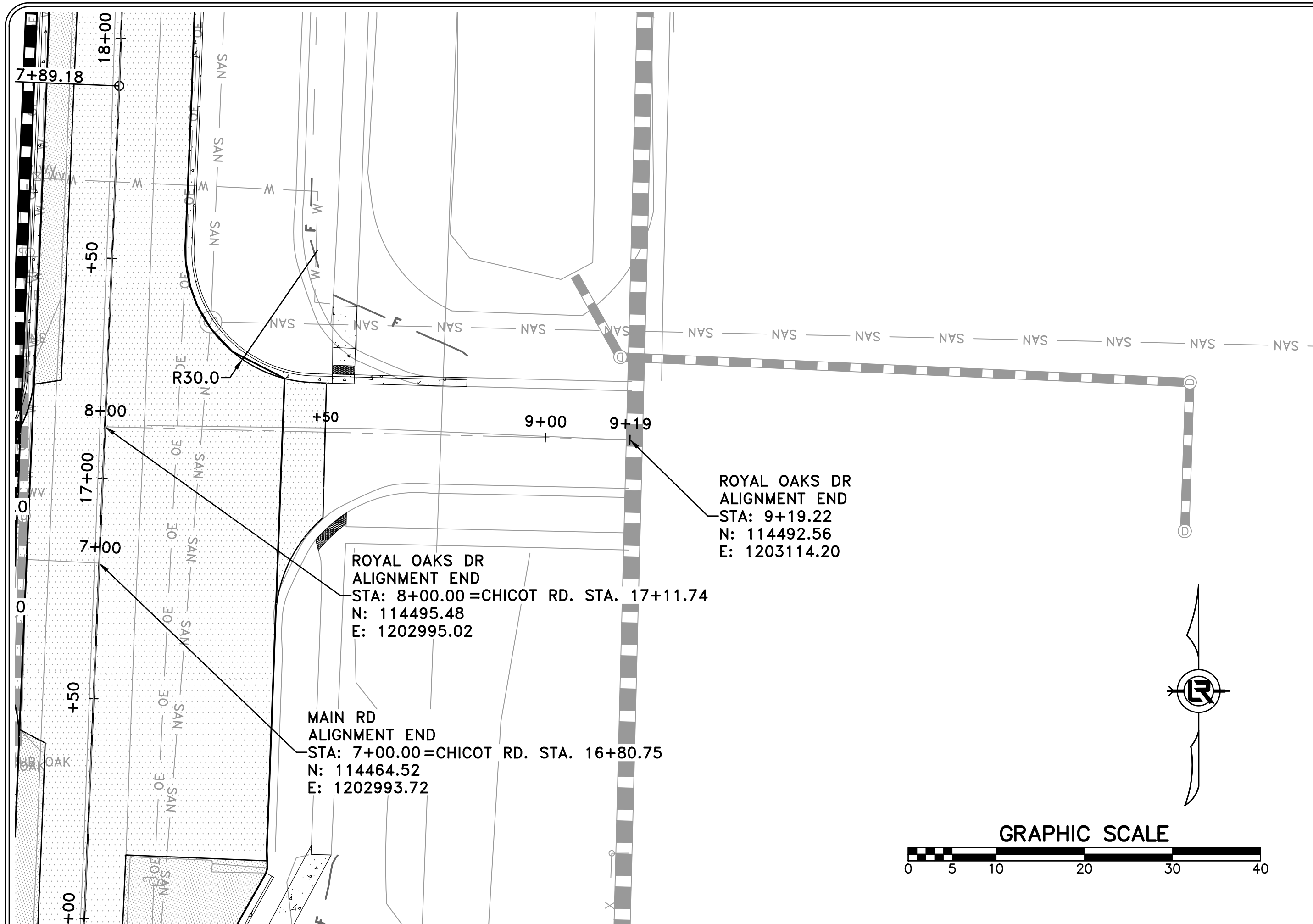


SEAL

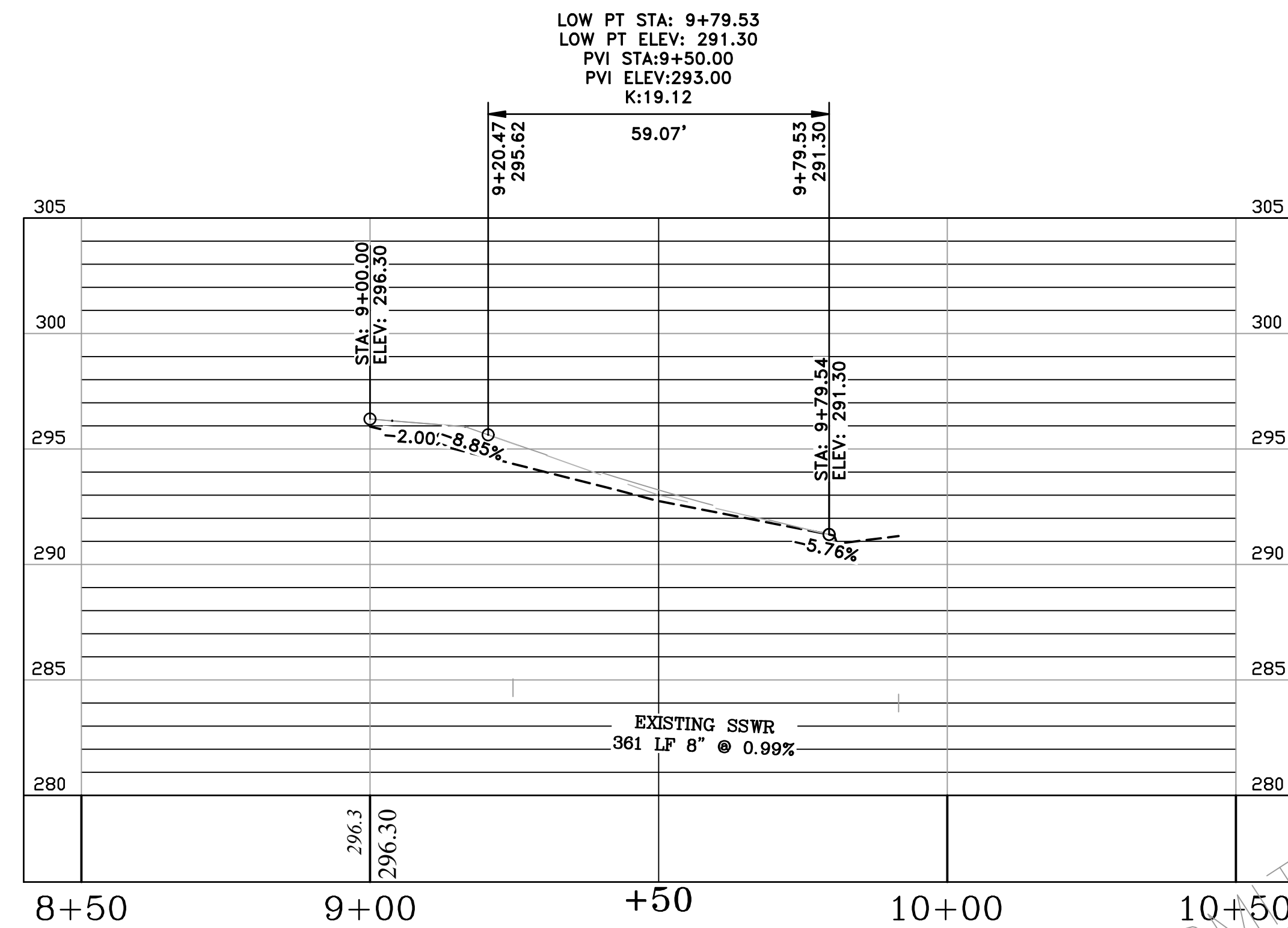
DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C22



90% SUBMITTAL



ROYAL OAKS DR



SHADY GROVE RD.

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
SIDE STREET PLAN AND PROFILES (2)

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

SEAL

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KLL  
DESIGNED  
COF  
CHECKED  
BOL  
DATE  
11-15-2019  
SCALE  
1" = 20'  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C23

90% SUBMITTAL

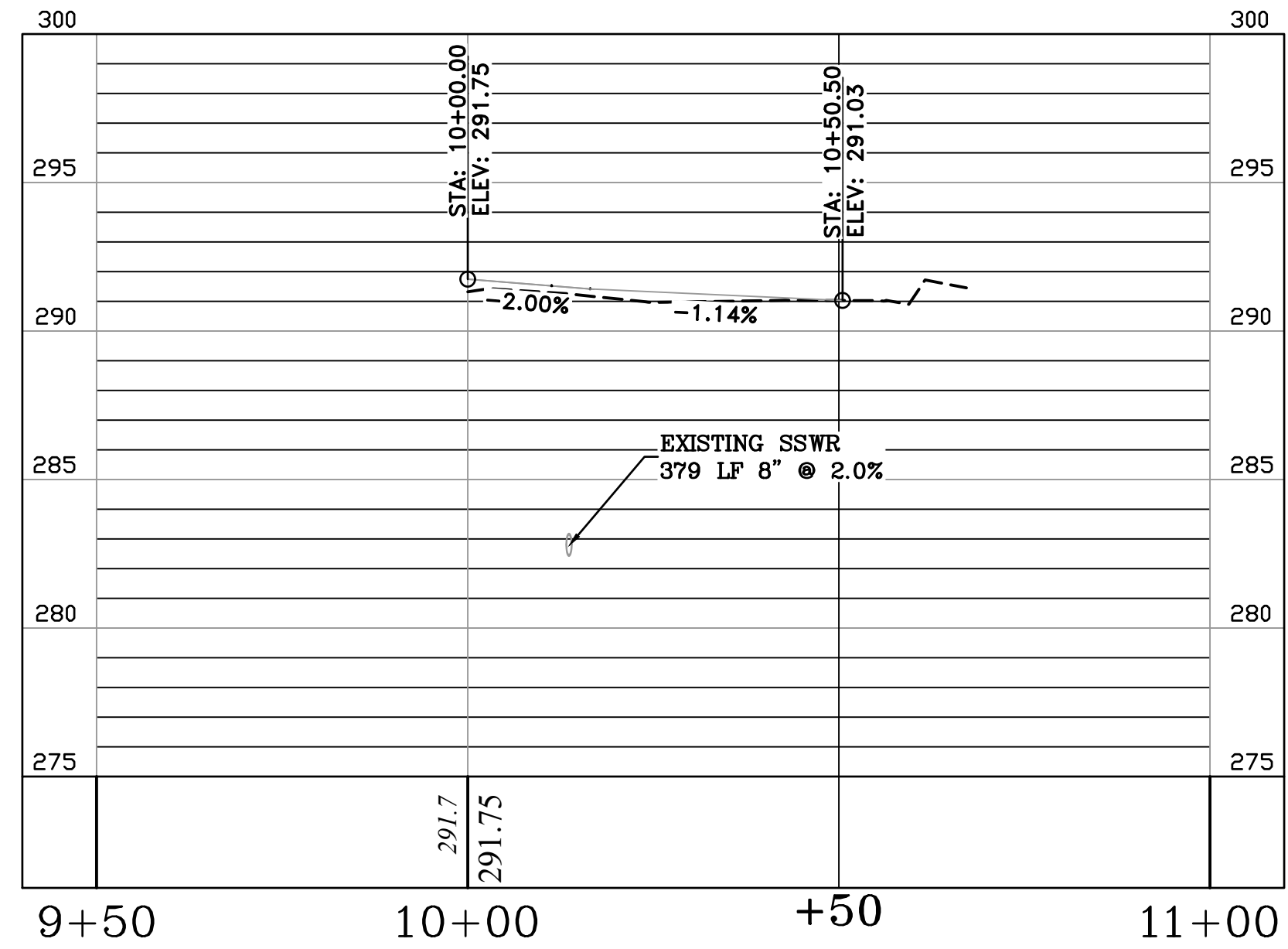
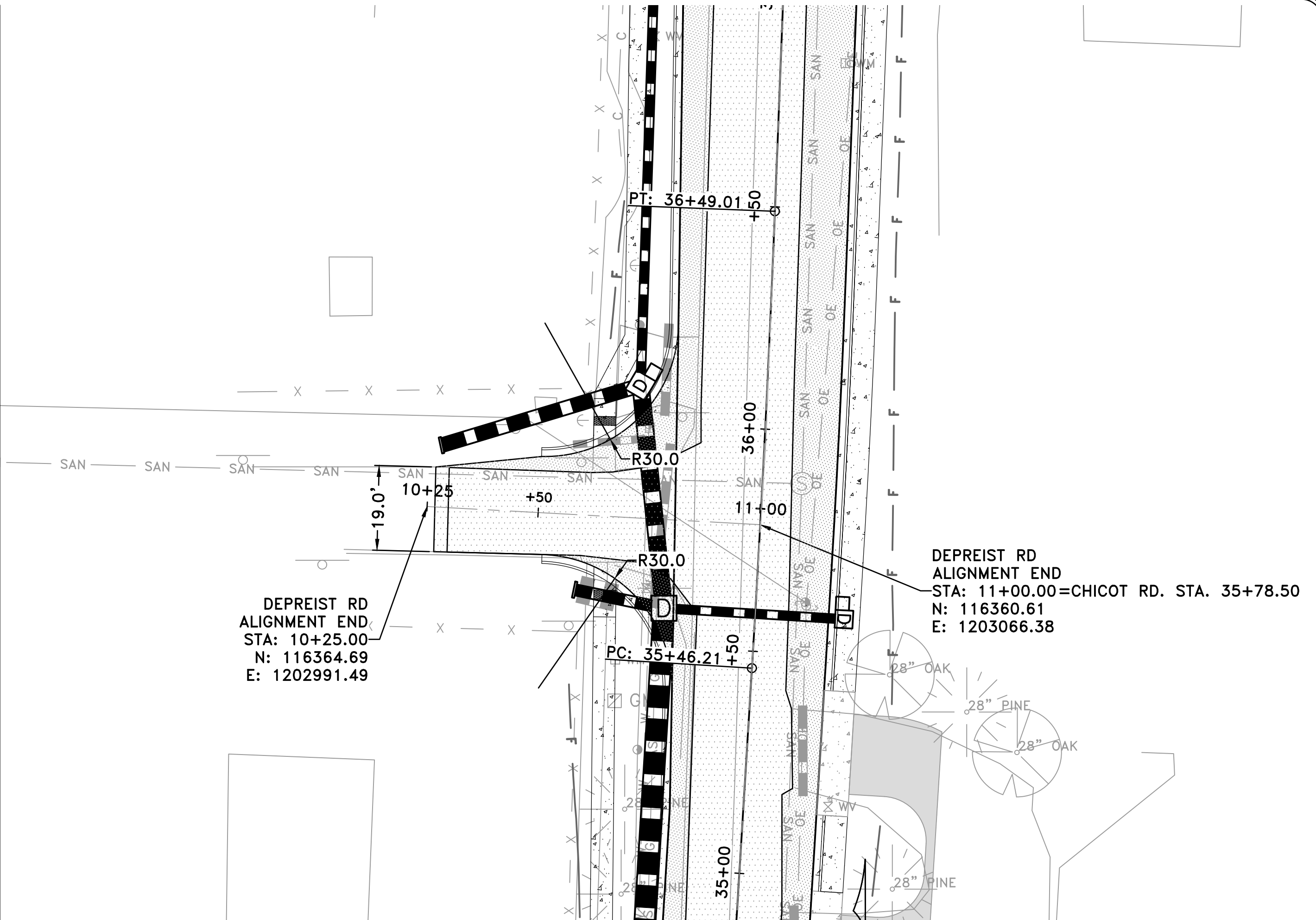
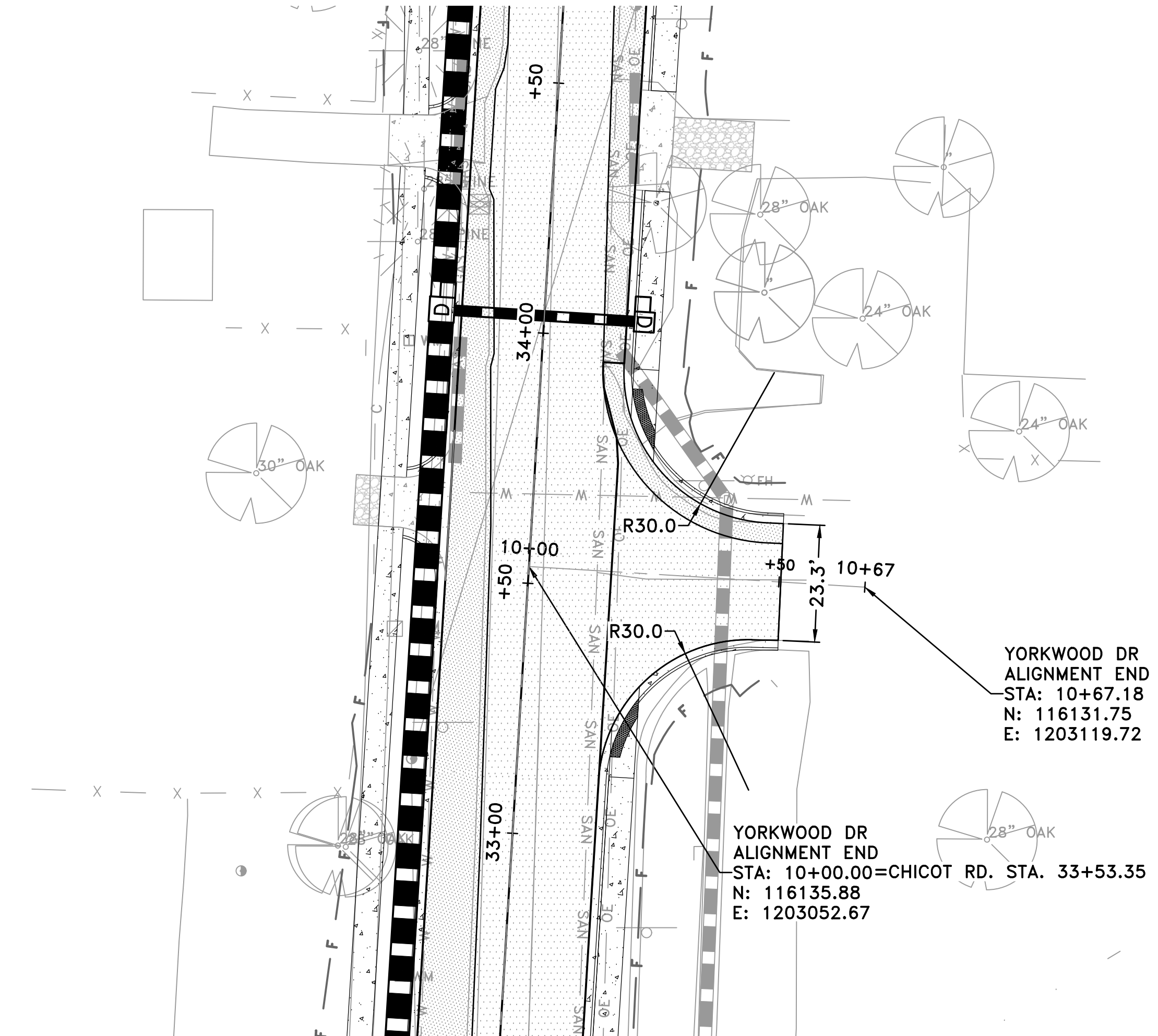
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 SIDE STREET PLAN AND PROFILES (3)

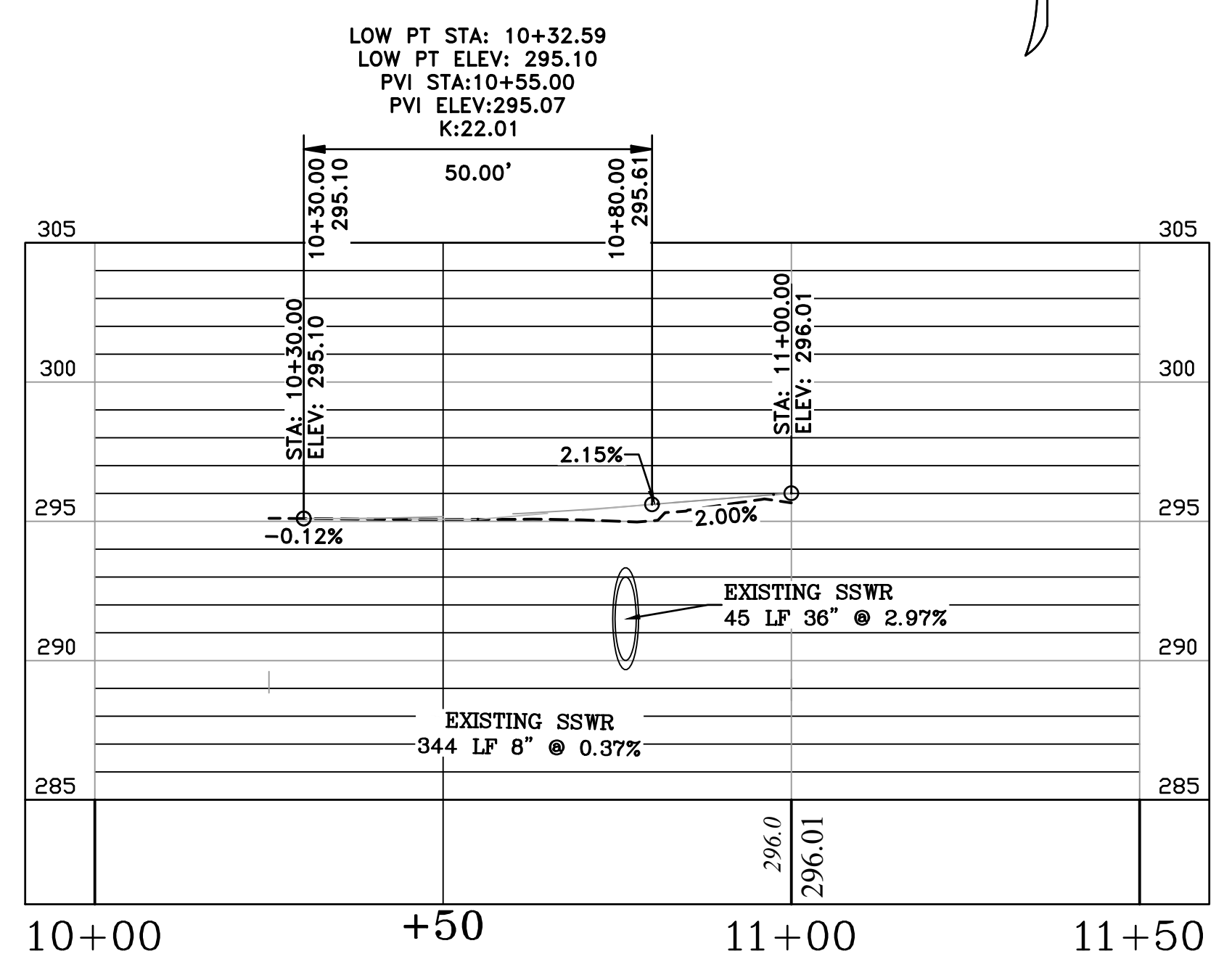
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 20'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C24



YORKWOOD DR

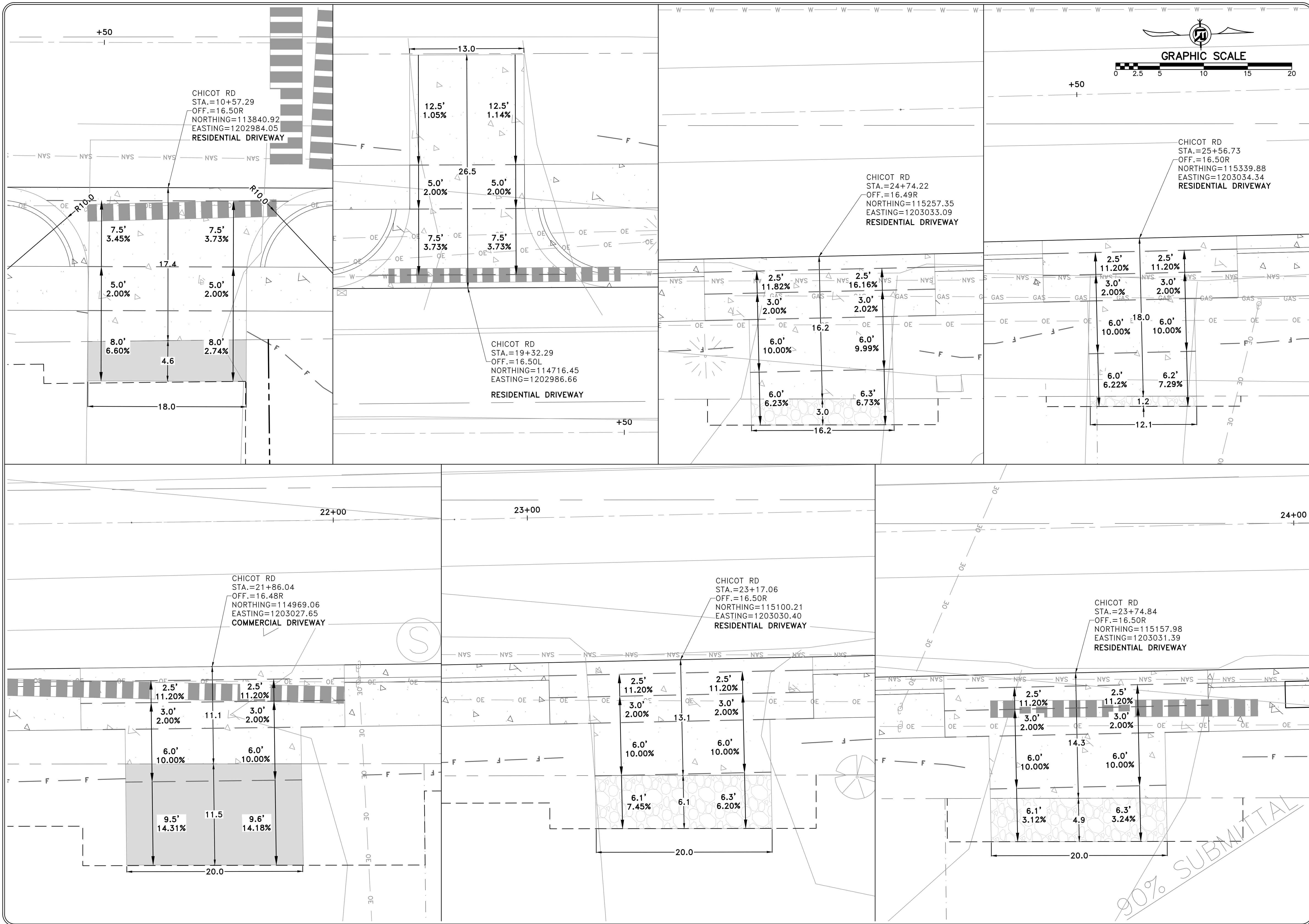


DEPREIST RD



90% SUBMITTAL





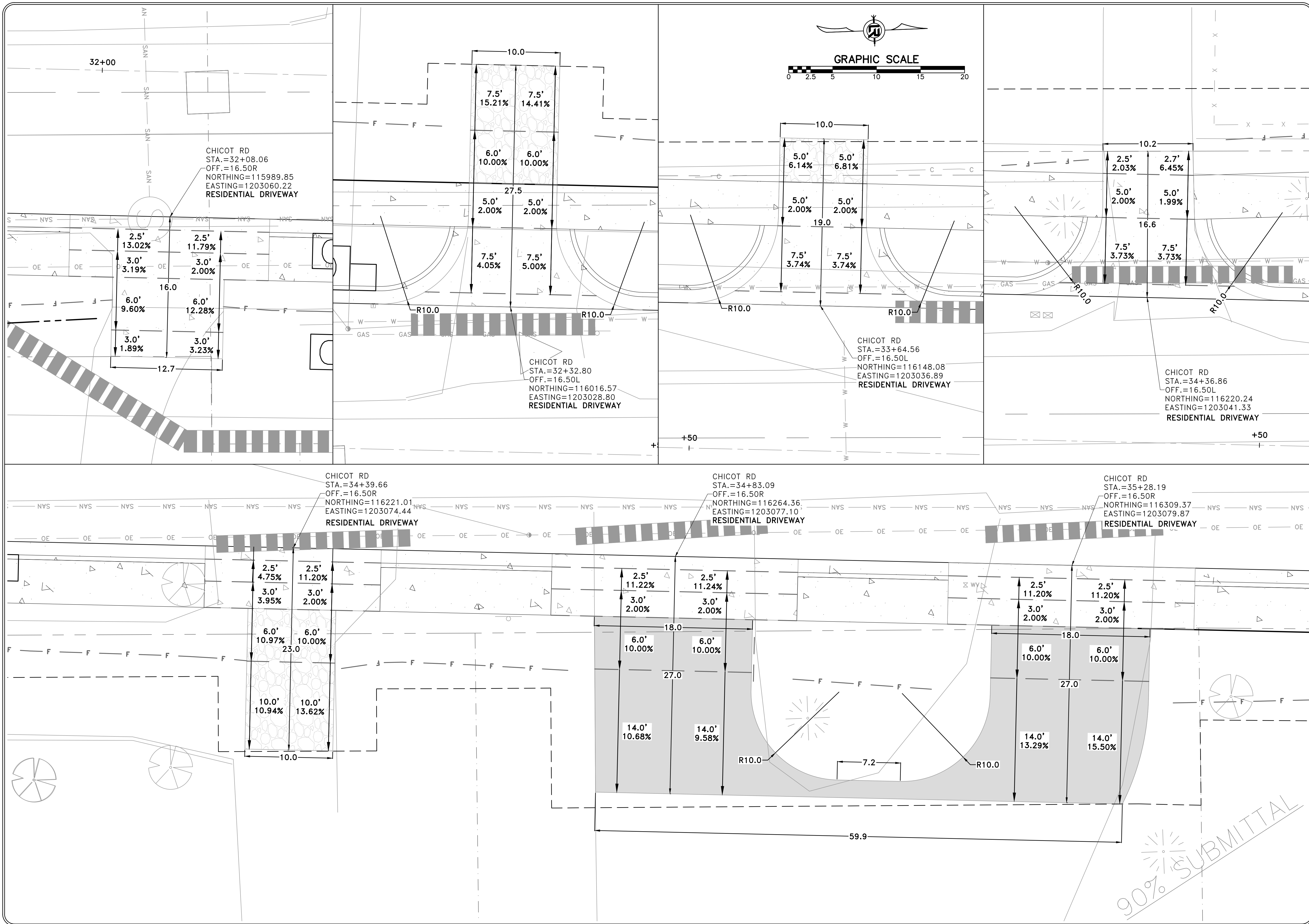
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**CHICOT ROAD RECONSTRUCTION**  
**DRIVEWAY PLAN (1)**

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

SEAL

DRAWN BY  
**KLL**  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1"=5'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
**C25**



REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**CHICOT ROAD RECONSTRUCTION**  
**DRIVEWAY PLAN (2)**

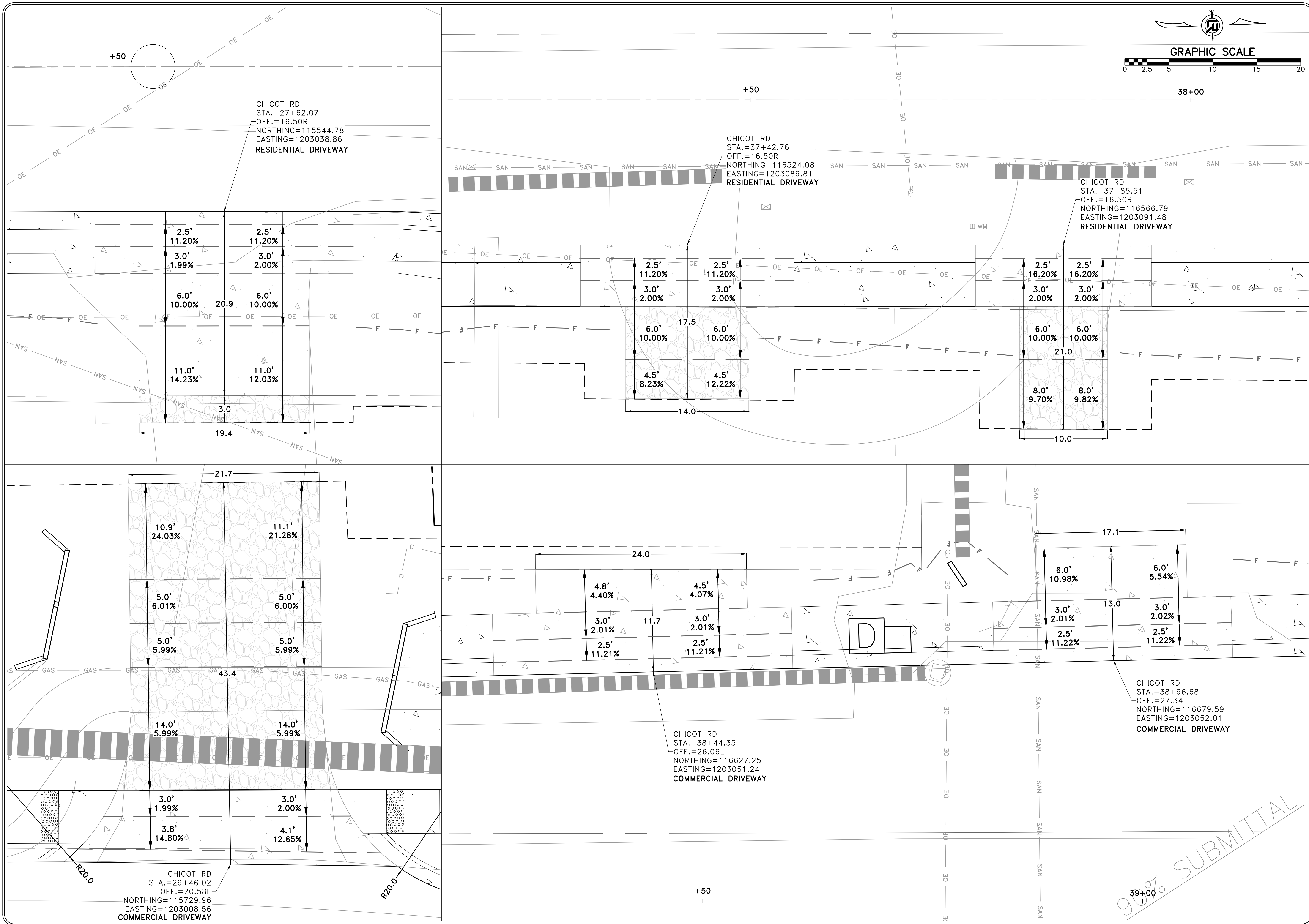
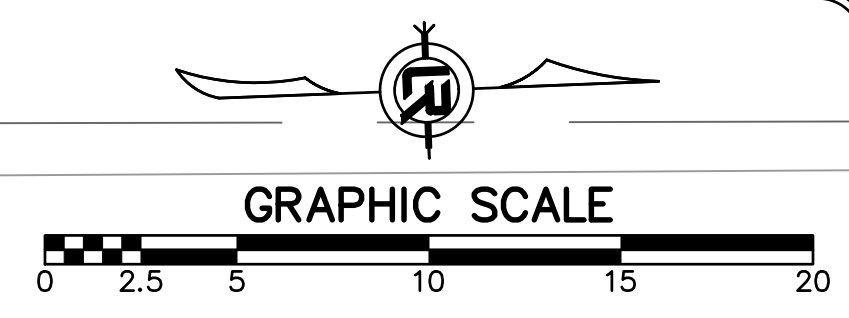
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

SEAL

**DRAWN BY**  
 KLL  
**DESIGNED**  
 COF  
**CHECKED**  
 BOL  
**DATE**  
 11-15-2019  
**SCALE**  
 1"=5'  
**PROJECT NO.**  
 CLR 07-17-ST-357  
**SHEET NO.**  
 C26

90% SUBMITTAL

REVISIONS	DATE

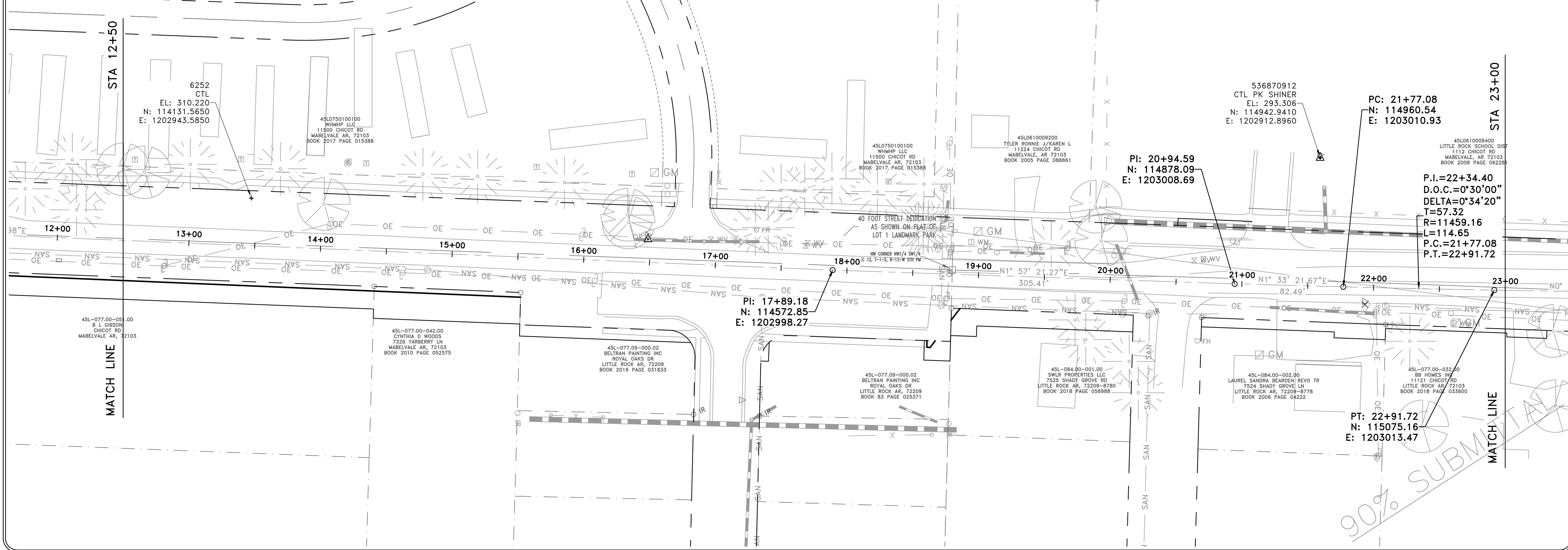
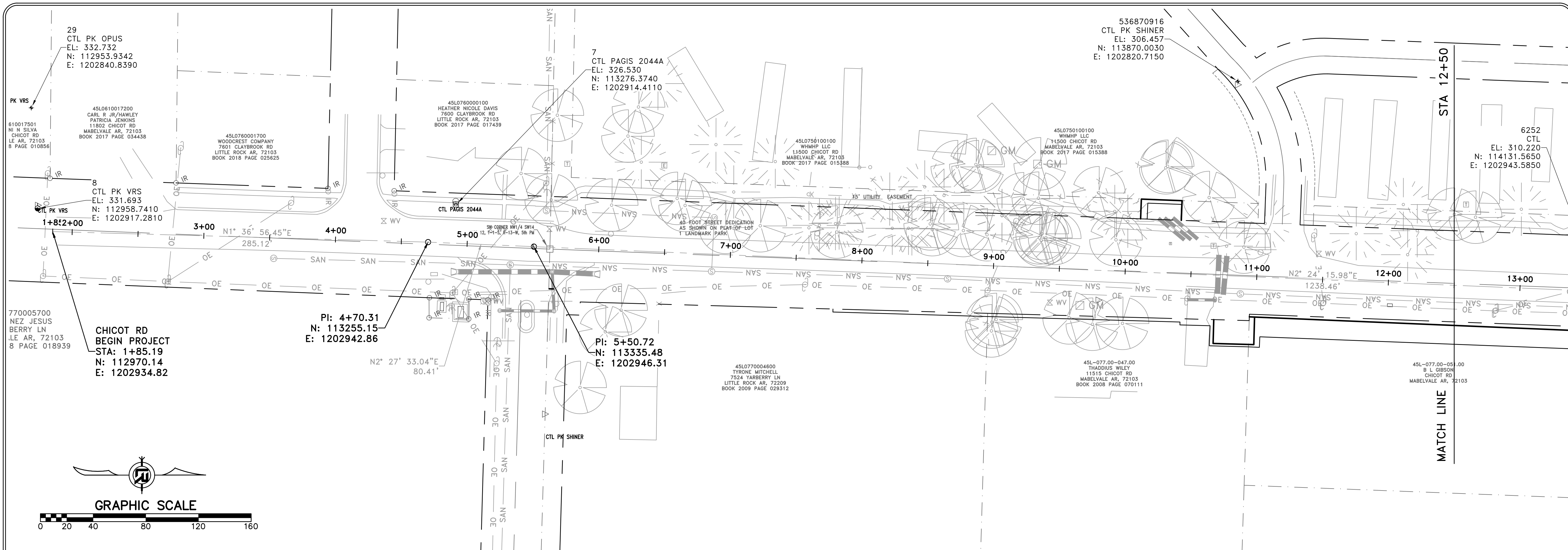


CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
DRIVEWAY PLAN (3)

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

SEAL

DRAWN BY  
KLL  
DESIGNED  
COF  
CHECKED  
BOL  
DATE  
11-15-2019  
SCALE  
1"=5'  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C27



REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**CHICOT ROAD RECONSTRUCTION**  
**SURVEY CONTROL (1)**

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

SEAL

**DRAWN BY**  
 KLL  
**DESIGNED**  
 COF  
**CHECKED**  
 BOL  
**DATE**  
 11-15-2019  
**SCALE**  
 1" = 40'  
**PROJECT NO.**  
 CLR 07-17-ST-357  
**SHEET NO.**  
 C28

C: 21+77.08  
 N: 114960.54  
 E: 1203010.93

P.I.=22+34.40  
 D.O.C.=0°30'00"  
 DELTA=0°34'20"  
 T=57.32  
 R=11459.16  
 L=114.65  
 P.C.=21+77.08  
 P.T.=22+91.72

PI: 24+83.87  
 N: 115267.28  
 E: 1203016.77

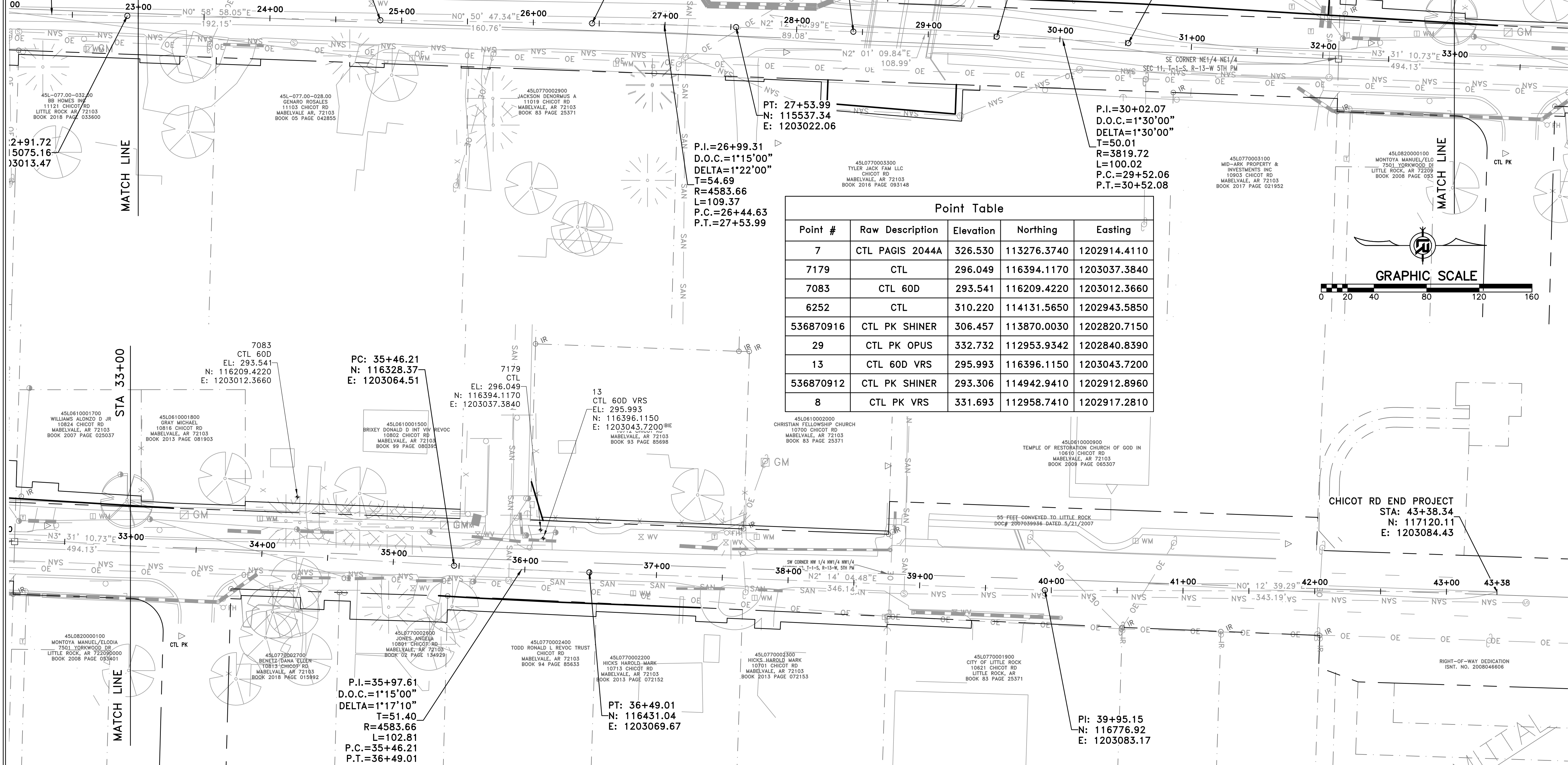
PC: 26+44.63  
 N: 115428.02  
 E: 1203019.14

PI: 28+43.08  
 N: 115626.36  
 E: 1203025.50

PC: 29+52.06  
 N: 115735.28  
 E: 1203029.34

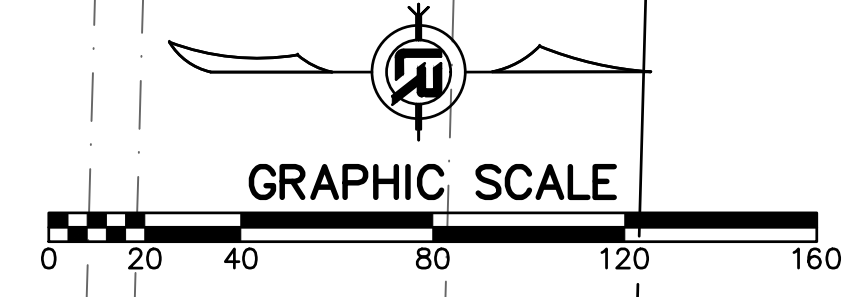
PT: 30+52.08  
 N: 115835.18  
 E: 1203034.18

C:  
 EL: 2  
 N: 11620  
 E: 120301



**Point Table**

Point #	Raw Description	Elevation	Northing	Easting
7	CTL PAGIS 2044A	326.530	113276.3740	1202914.4110
7179	CTL	296.049	116394.1170	1203037.3840
7083	CTL 60D	293.541	116209.4220	1203012.3660
6252	CTL	310.220	114131.5650	1202943.5850
536870916	CTL PK SHINER	306.457	113870.0030	1202820.7150
29	CTL PK OPUS	332.732	112953.9342	1202840.8390
13	CTL 60D VRS	295.993	116396.1150	1203043.7200
536870912	CTL PK SHINER	293.306	114942.9410	1202912.8960
8	CTL PK VRS	331.693	112958.7410	1202917.2810



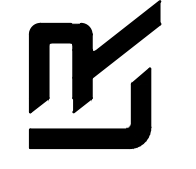
CHICOT RD END PROJECT  
 STA: 43+38.34  
 N: 117120.11  
 E: 1203084.43

90% SUBMITTAL

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 SURVEY CONTROL (2)

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



SEAL

DRAWN BY  
**KLL**  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
**C29**

REVISIONS	DATE

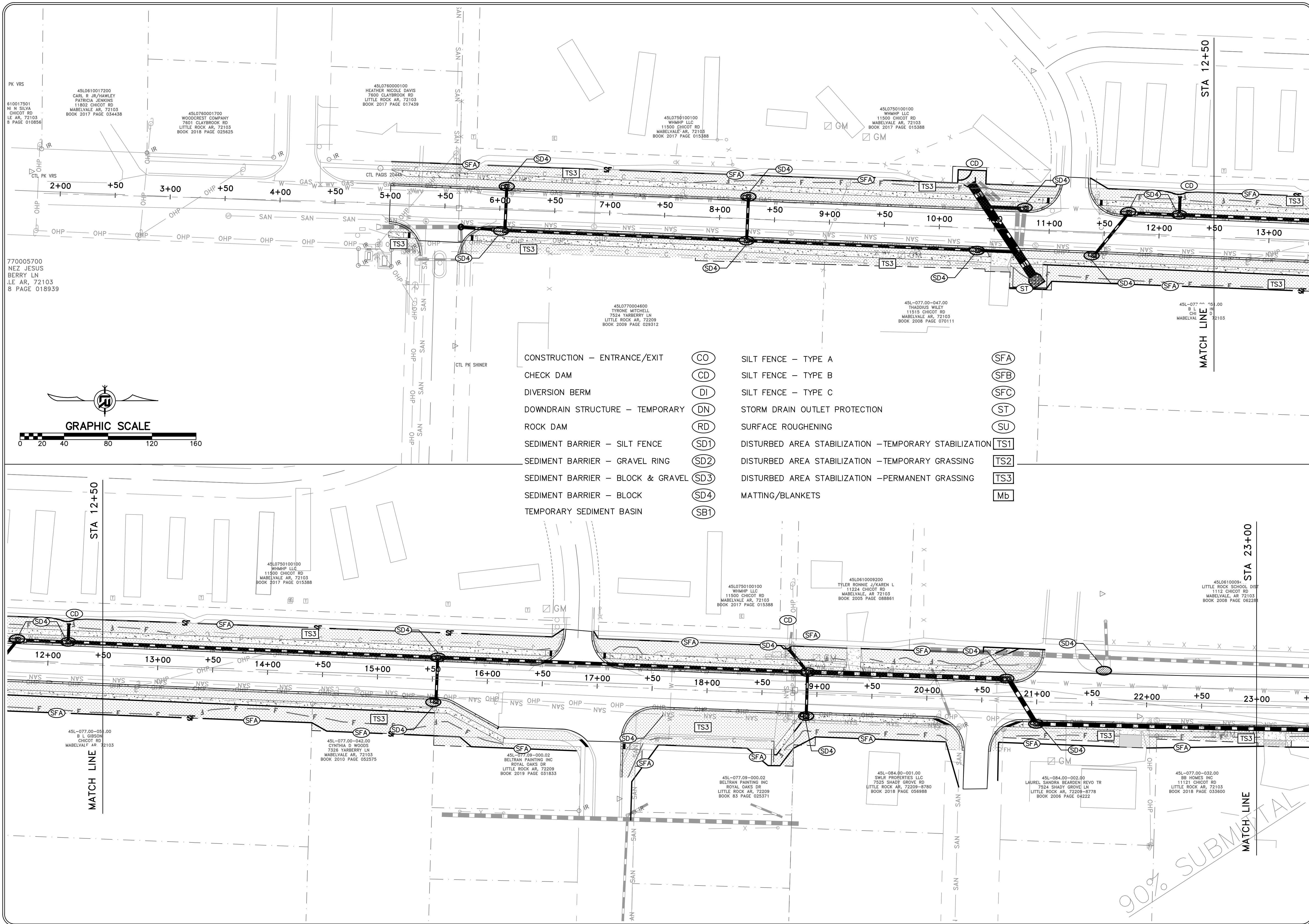
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 EROSION CONTROL PLAN (1)

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

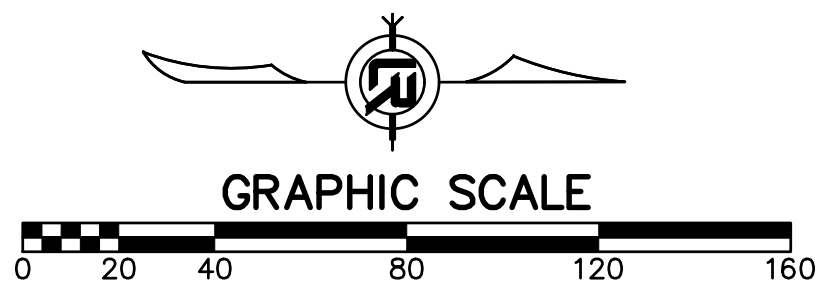


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 DATE  
 11-15-2019  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C30



- |                                   |       |  |       |
|-----------------------------------|-------|--|-------|
| CONSTRUCTION - ENTRANCE/EXIT      | (CO)  | SILT FENCE - TYPE A                                    | (SFA) |
| CHECK DAM                         | (CD)  | SILT FENCE - TYPE B                                    | (SFB) |
| DIVERSION BERM                    | (DI)  | SILT FENCE - TYPE C                                    | (SFC) |
| DOWNDRAIN STRUCTURE - TEMPORARY   | (DN)  | STORM DRAIN OUTLET PROTECTION                          | (ST)  |
| ROCK DAM                          | (RD)  | SURFACE ROUGHENING                                     | (SU)  |
| SEDIMENT BARRIER - SILT FENCE     | (SD1) | DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION | (TS1) |
| SEDIMENT BARRIER - GRAVEL RING    | (SD2) | DISTURBED AREA STABILIZATION - TEMPORARY GRASSING      | (TS2) |
| SEDIMENT BARRIER - BLOCK & GRAVEL | (SD3) | DISTURBED AREA STABILIZATION - PERMANENT GRASSING      | (TS3) |
| SEDIMENT BARRIER - BLOCK          | (SD4) | MATTING/BLANKETS                                       | (Mb)  |
| TEMPORARY SEDIMENT BASIN          | (SB1) |  |       |



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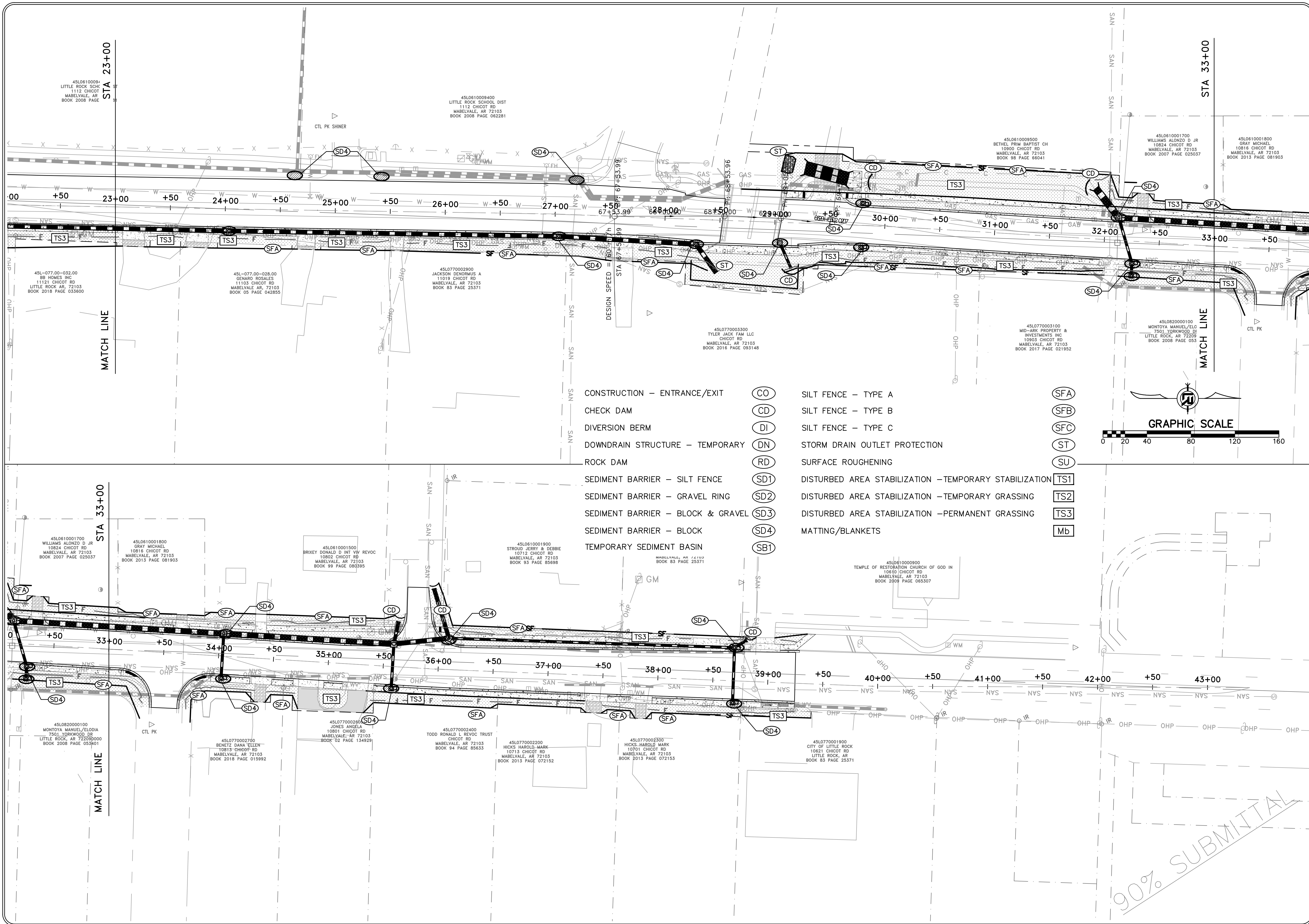
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 EROSION CONTROL PLAN (2)

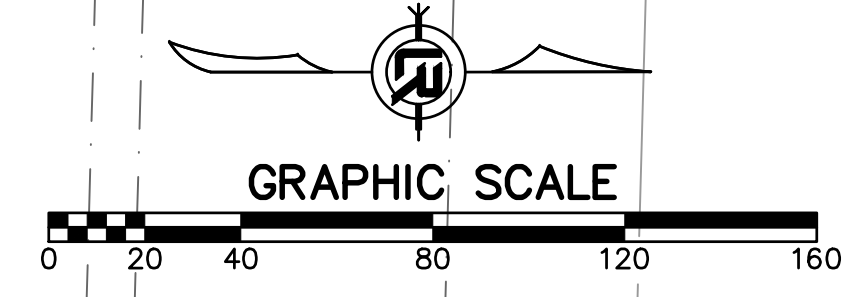
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

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 DATE  
 11-15-2019  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C31



- |                                   |       |  |       |
|-----------------------------------|-------|--|-------|
| CONSTRUCTION - ENTRANCE/EXIT      | (CO)  | SILT FENCE - TYPE A                                    | (SFA) |
| CHECK DAM                         | (CD)  | SILT FENCE - TYPE B                                    | (SFB) |
| DIVERSION BERM                    | (DI)  | SILT FENCE - TYPE C                                    | (SFC) |
| DOWNDRAIN STRUCTURE - TEMPORARY   | (DN)  | STORM DRAIN OUTLET PROTECTION                          | (ST)  |
| ROCK DAM                          | (RD)  | SURFACE ROUGHENING                                     | (SU)  |
| SEDIMENT BARRIER - SILT FENCE     | (SD1) | DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION | (TS1) |
| SEDIMENT BARRIER - GRAVEL RING    | (SD2) | DISTURBED AREA STABILIZATION - TEMPORARY GRASSING      | (TS2) |
| SEDIMENT BARRIER - BLOCK & GRAVEL | (SD3) | DISTURBED AREA STABILIZATION - PERMANENT GRASSING      | (TS3) |
| SEDIMENT BARRIER - BLOCK          | (SD4) | MATting/BLANKETS                                       | (Mb)  |
| TEMPORARY SEDIMENT BASIN          | (SB1) |  |       |

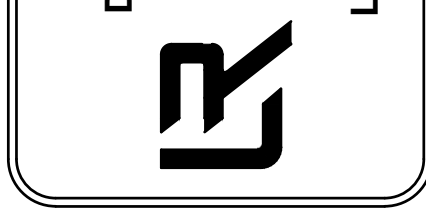


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REVISIONS	DATE

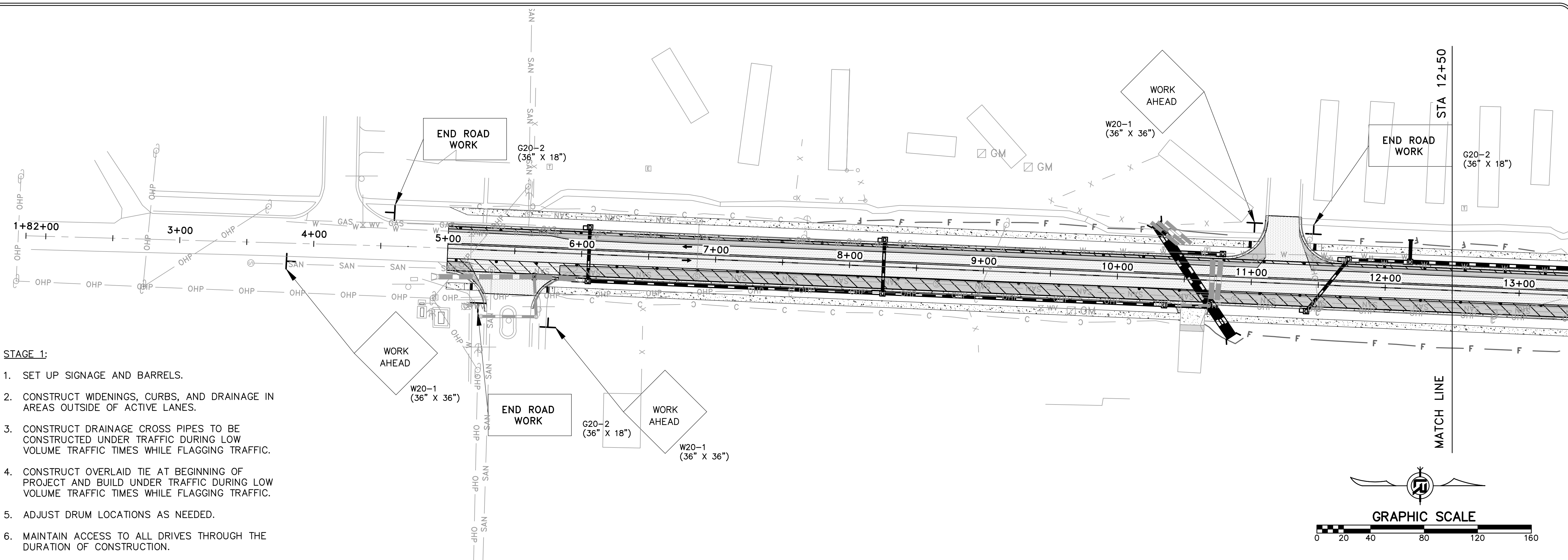
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 MAINTENANCE OF TRAFFIC PLAN (1)  
 PHASE I

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
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 LITTLE ROCK, ARKANSAS 72201

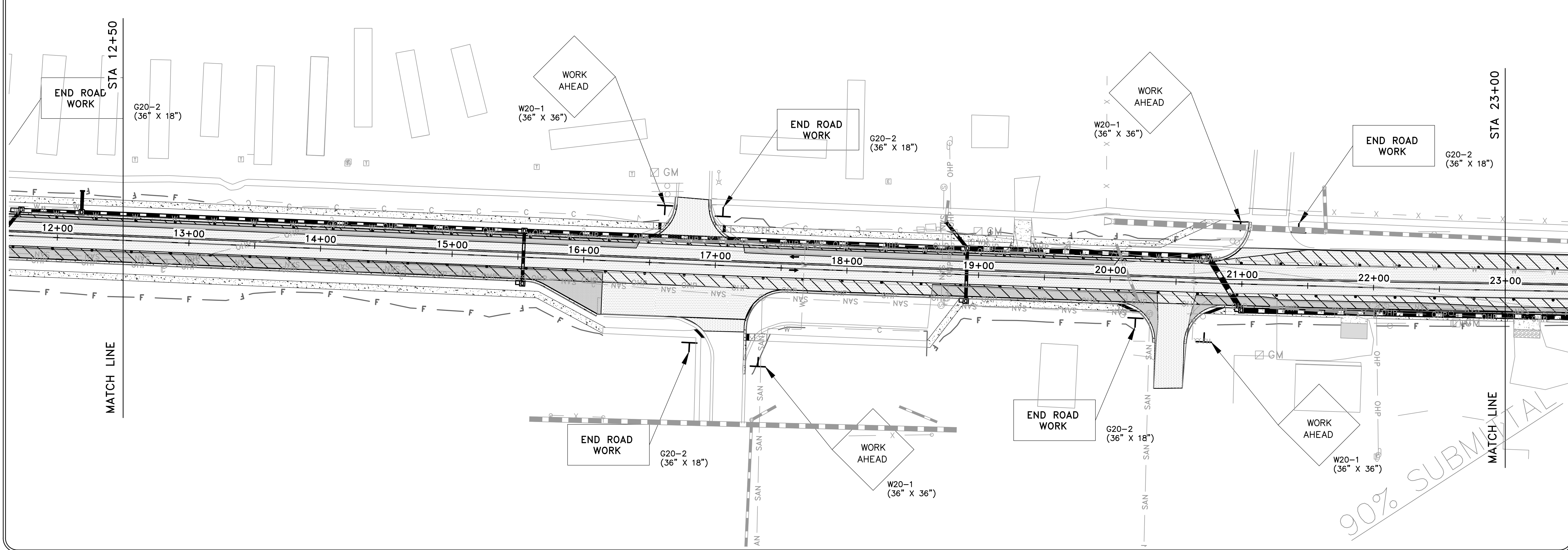


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 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C32

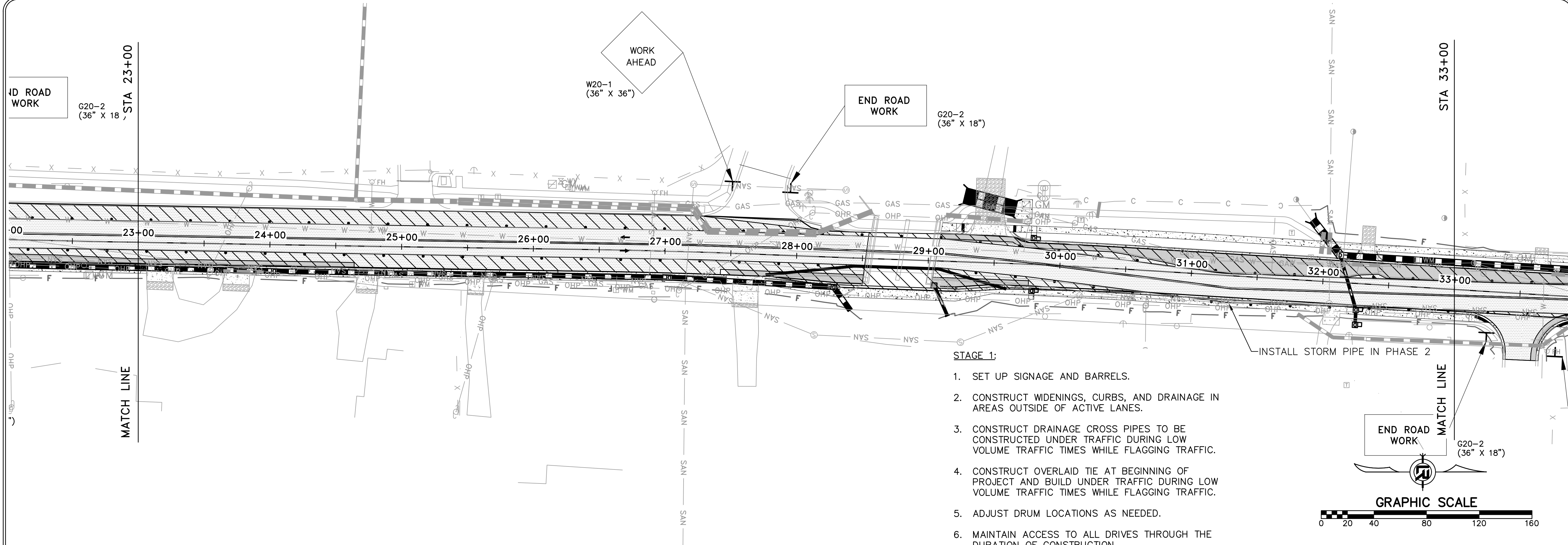


- STAGE 1:
1. SET UP SIGNAGE AND BARRELS.
  2. CONSTRUCT WIDENINGS, CURBS, AND DRAINAGE IN AREAS OUTSIDE OF ACTIVE LANES.
  3. CONSTRUCT DRAINAGE CROSS PIPES TO BE CONSTRUCTED UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
  4. CONSTRUCT OVERLAID TIE AT BEGINNING OF PROJECT AND BUILD UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
  5. ADJUST DRUM LOCATIONS AS NEEDED.
  6. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.

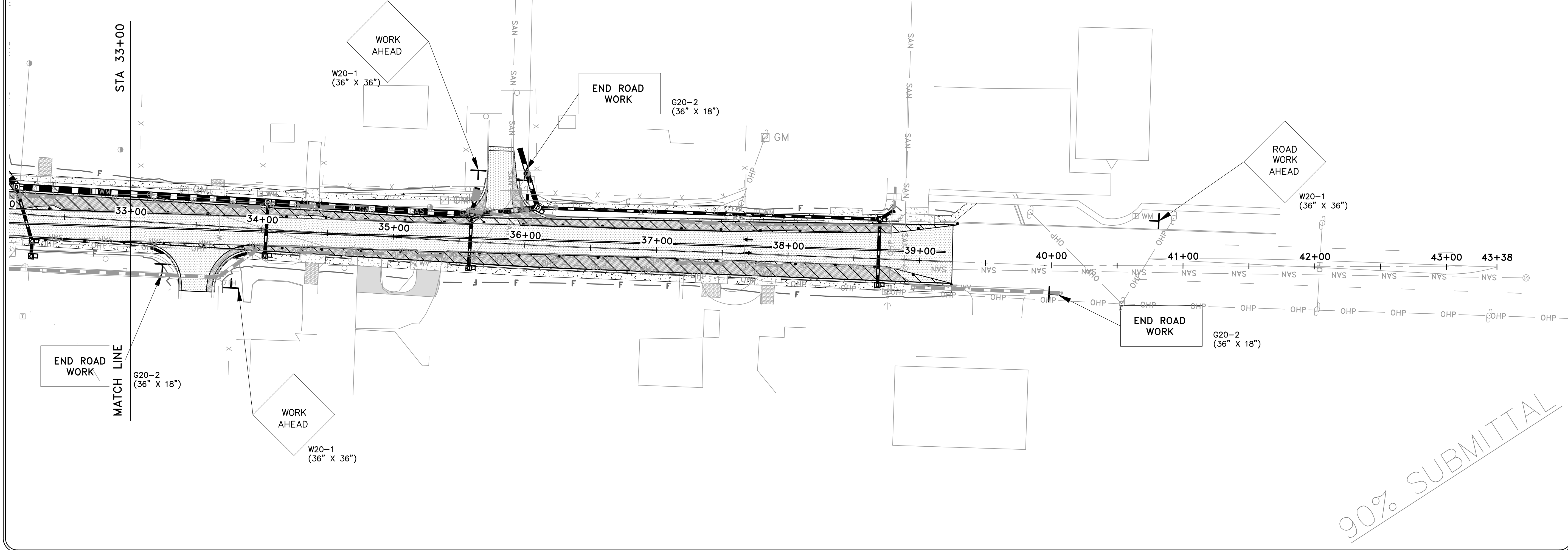


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- STAGE 1:**
1. SET UP SIGNAGE AND BARRELS.
  2. CONSTRUCT WIDENINGS, CURBS, AND DRAINAGE IN AREAS OUTSIDE OF ACTIVE LANES.
  3. CONSTRUCT DRAINAGE CROSS PIPES TO BE CONSTRUCTED UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
  4. CONSTRUCT OVERLAID TIE AT BEGINNING OF PROJECT AND BUILD UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
  5. ADJUST DRUM LOCATIONS AS NEEDED.
  6. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.



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REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 MAINTENANCE OF TRAFFIC PLAN (2)  
 PHASE I

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 CIVIL ENGINEERING  
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 LITTLE ROCK, ARKANSAS 72201

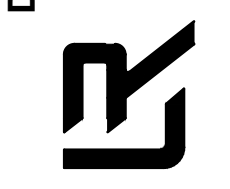
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 DATE  
 11-15-2019  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C33

REVISIONS	DATE

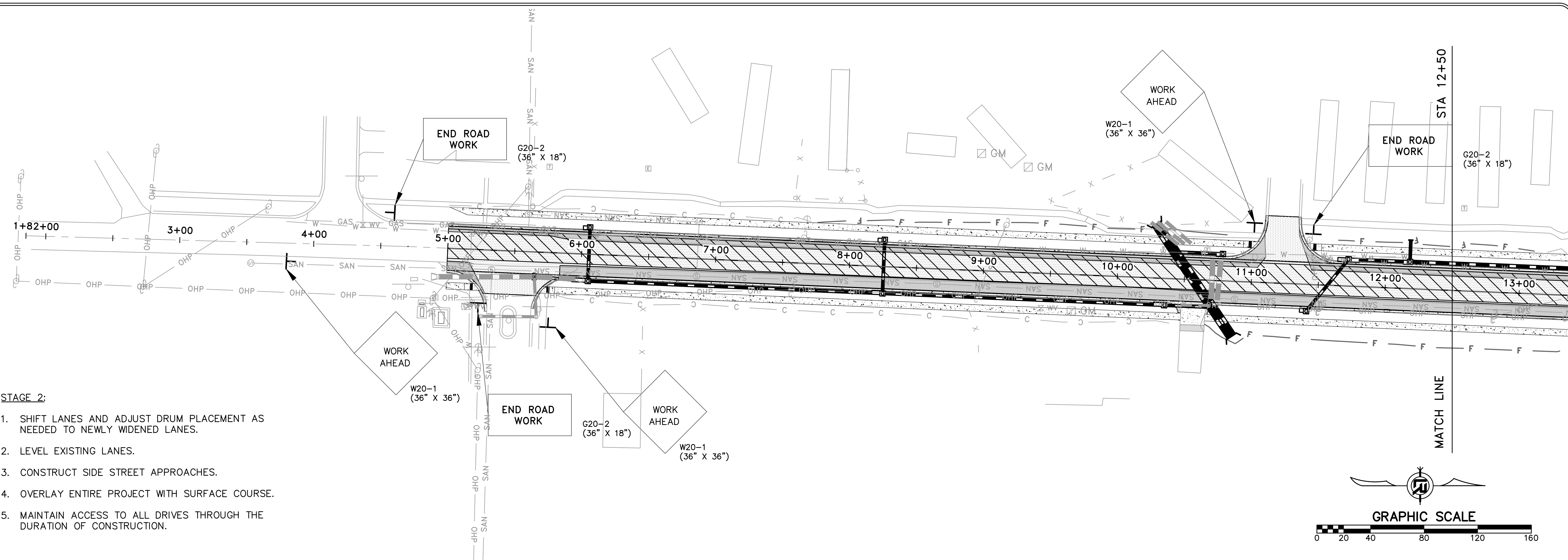
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 MAINTENANCE OF TRAFFIC PLAN (3)  
 PHASE II

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



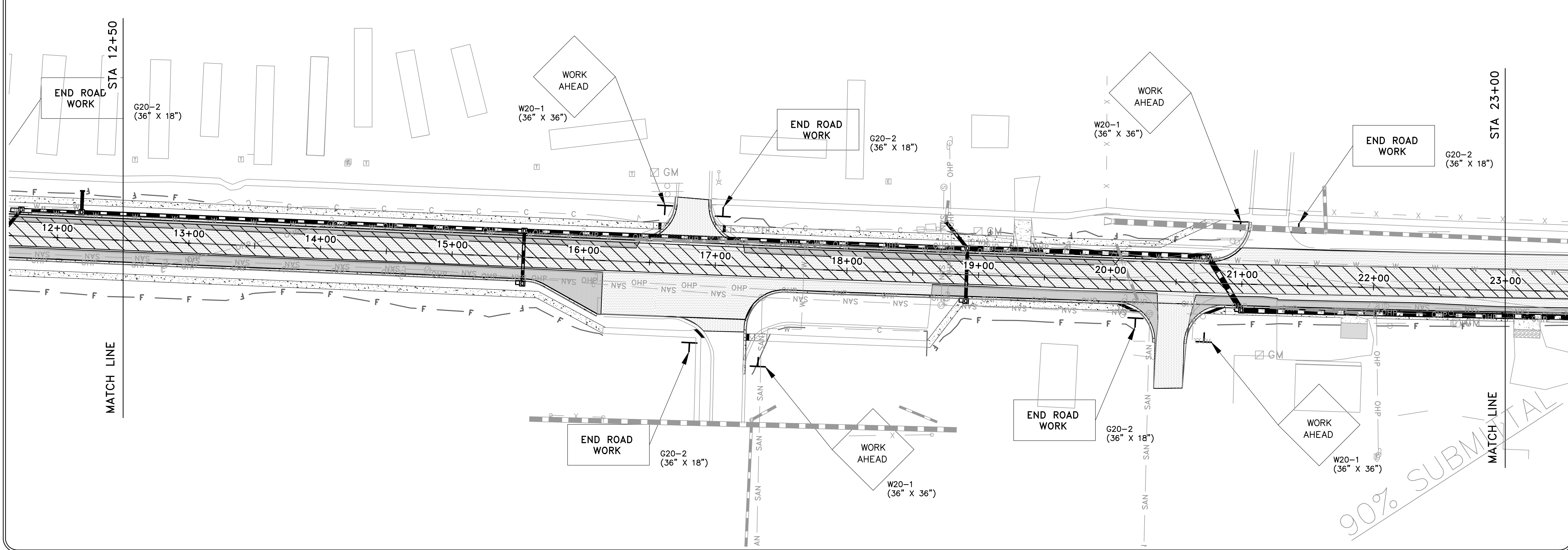
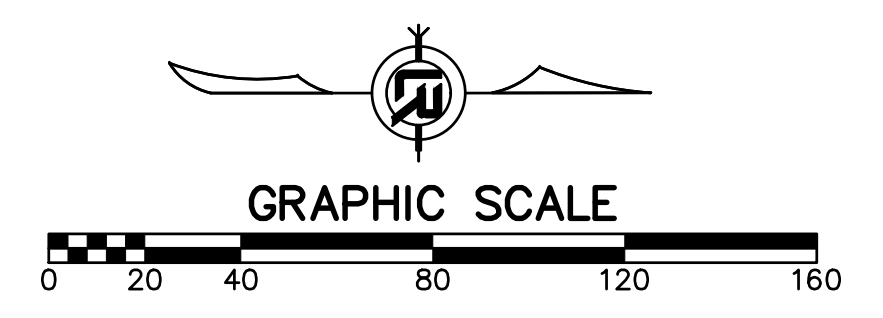
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 11-15-2019  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C34

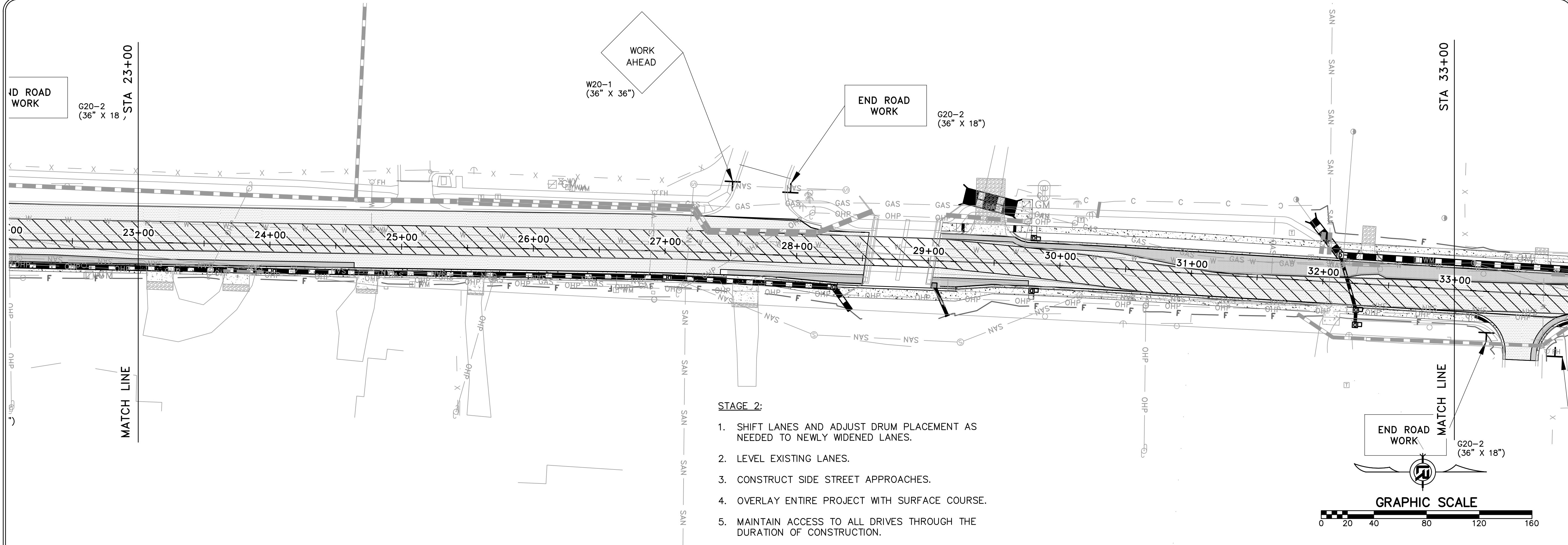


**STAGE 2:**

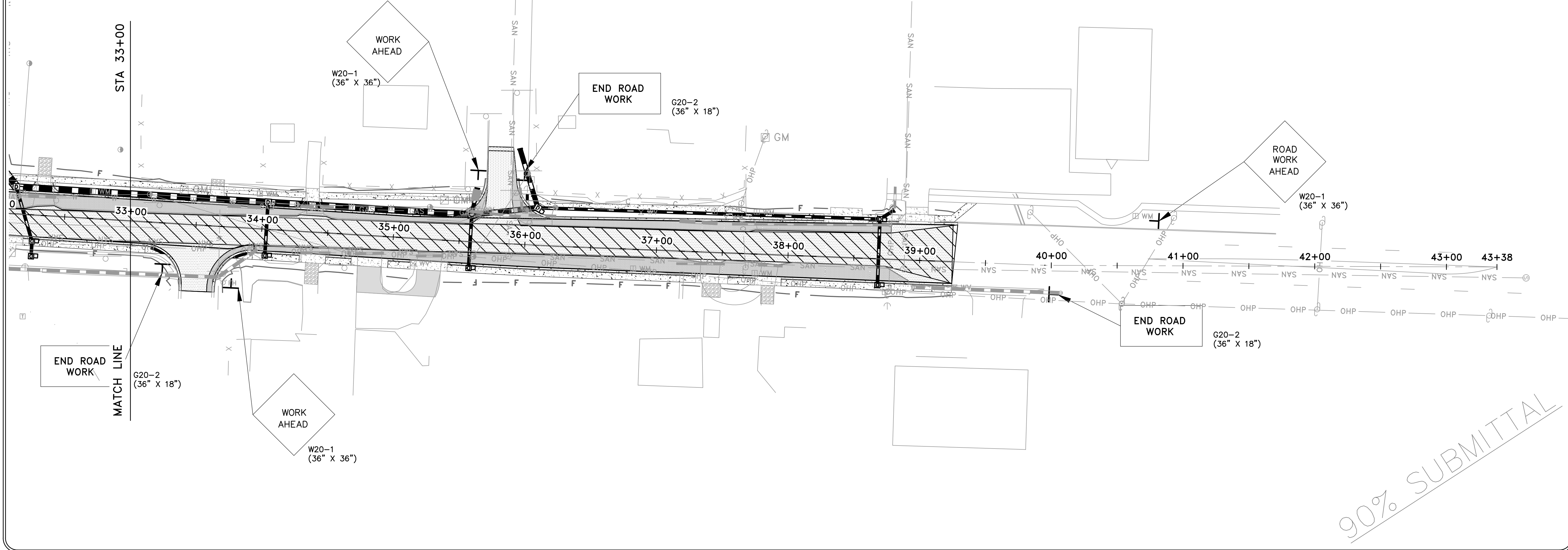
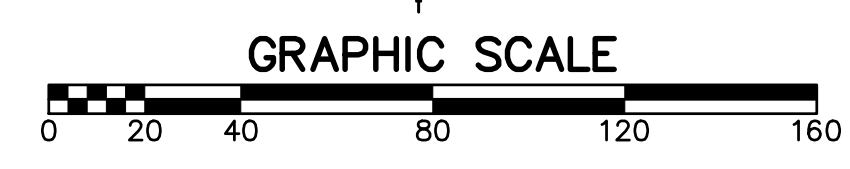
1. SHIFT LANES AND ADJUST DRUM PLACEMENT AS NEEDED TO NEWLY WIDENED LANES.
2. LEVEL EXISTING LANES.
3. CONSTRUCT SIDE STREET APPROACHES.
4. OVERLAY ENTIRE PROJECT WITH SURFACE COURSE.
5. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.



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- STAGE 2:**
1. SHIFT LANES AND ADJUST DRUM PLACEMENT AS NEEDED TO NEWLY WIDENED LANES.
  2. LEVEL EXISTING LANES.
  3. CONSTRUCT SIDE STREET APPROACHES.
  4. OVERLAY ENTIRE PROJECT WITH SURFACE COURSE.
  5. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.



REVISIONS	DATE

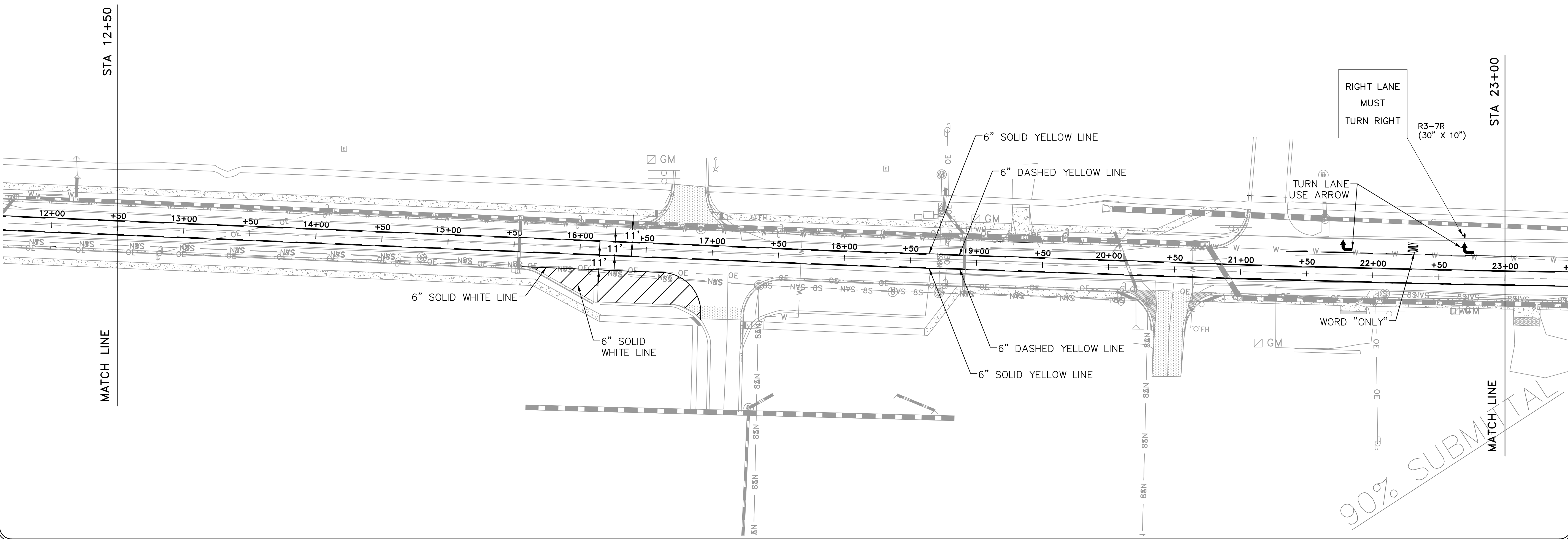
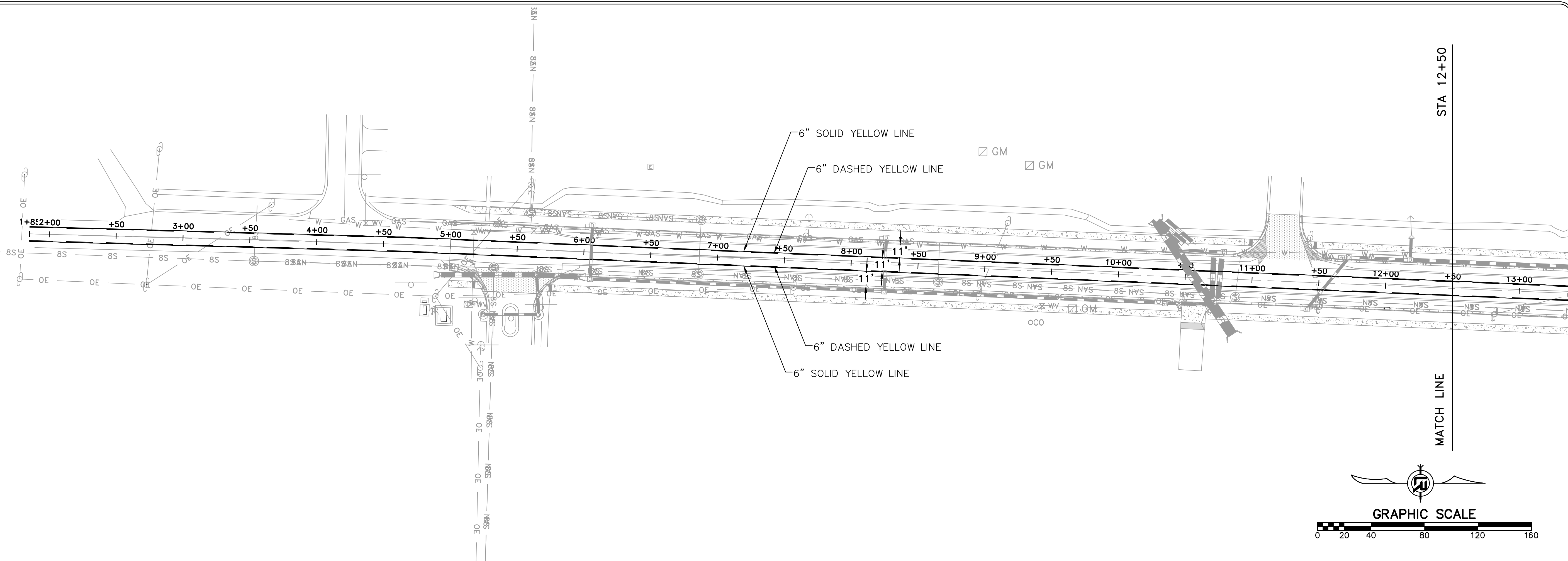
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 MAINTENANCE OF TRAFFIC PLAN (4)  
 PHASE II

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 11-15-2019  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
**C35**

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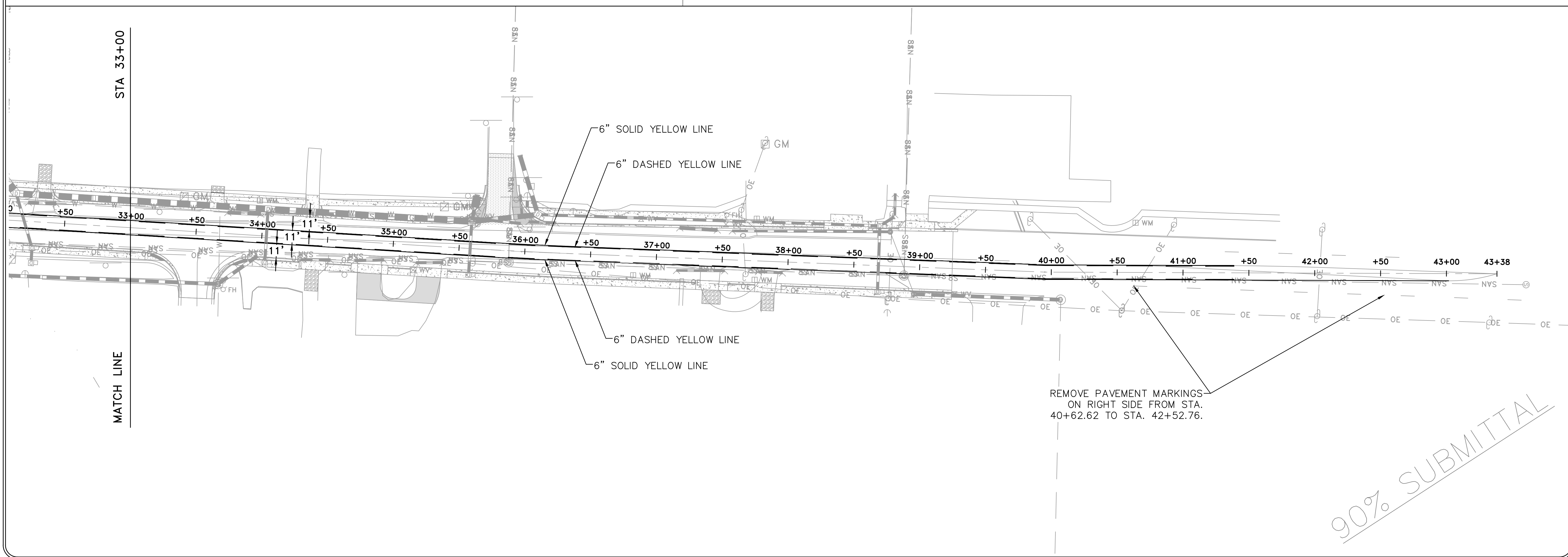
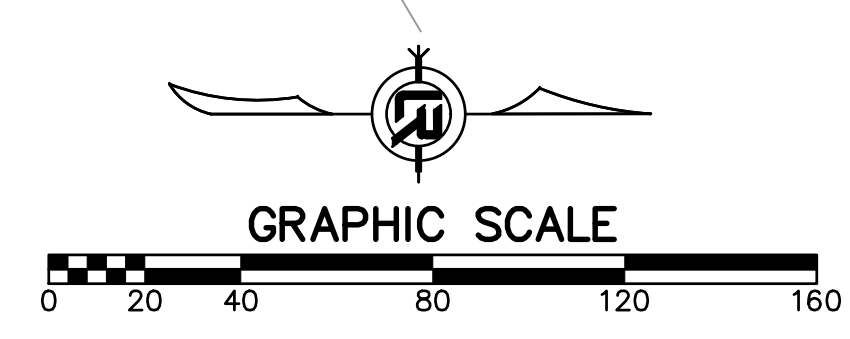
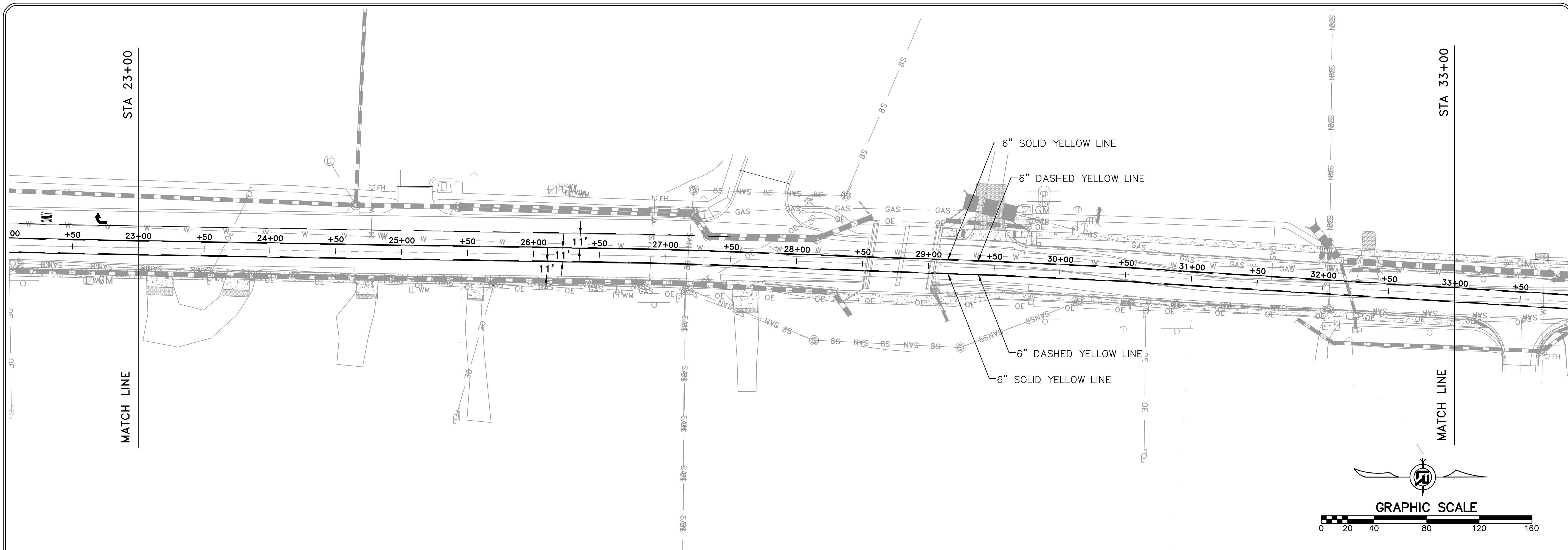
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 SIGNAGE AND MARKING PLAN (1)

DEPARTMENT OF PUBLIC WORKS  
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 SCALE  
 1" = 40'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 C36



REMOVE PAVEMENT MARKINGS  
ON RIGHT SIDE FROM STA.  
40+62.62 TO STA. 42+52.76.

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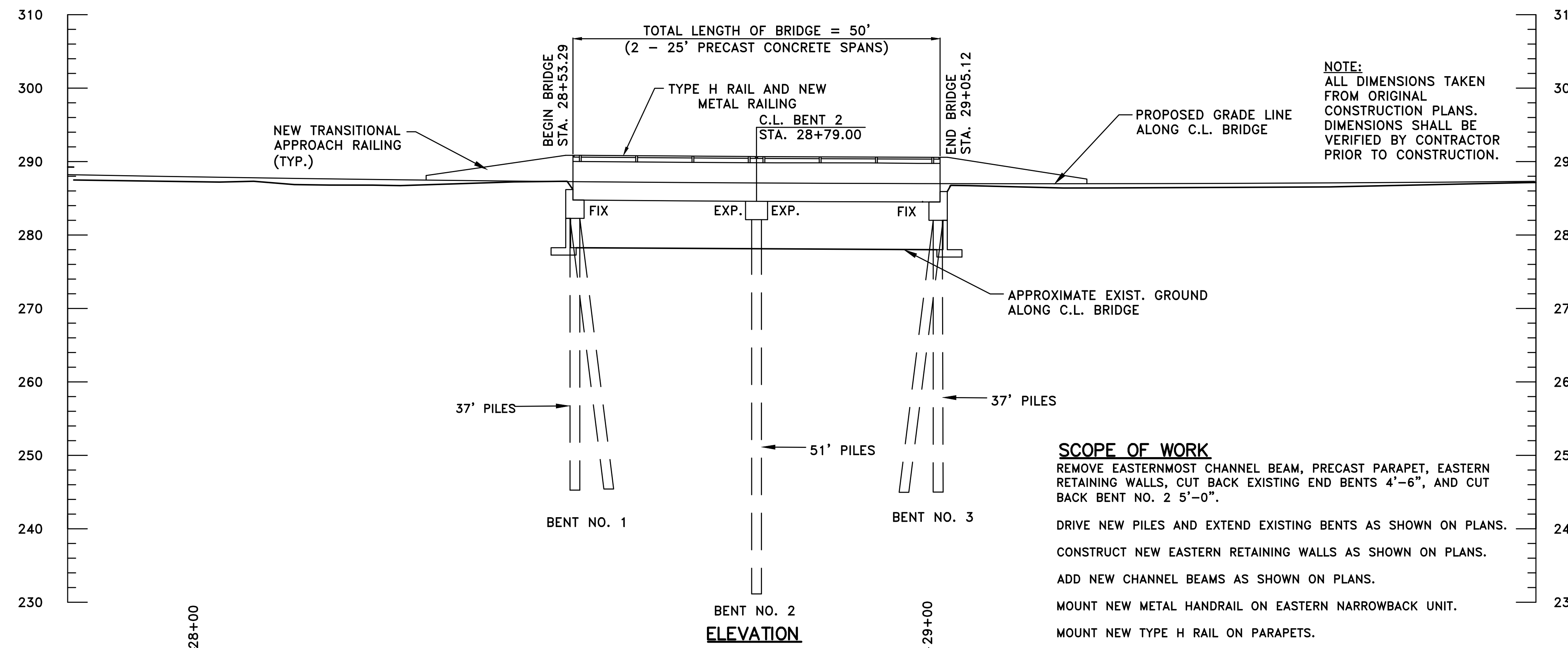
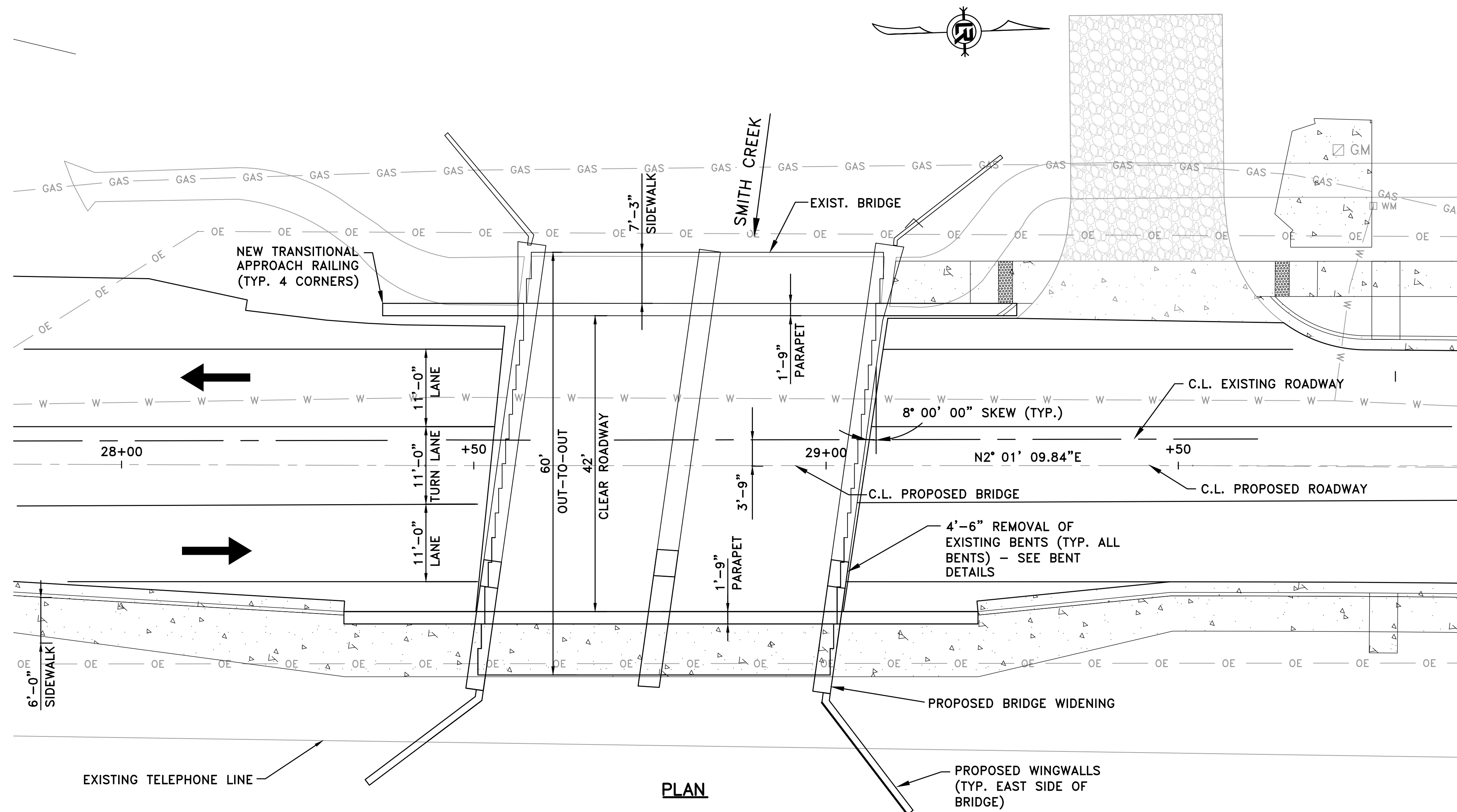
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
SIGNAGE AND MARKING PLAN (2)

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

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DATE  
11-15-2019  
SCALE  
1" = 40'  
PROJECT NO.  
CLR 07-17-ST-357  
SHEET NO.  
C37



**SCOPE OF WORK**

REMOVE EASTERMOST CHANNEL BEAM, PRECAST PARAPET, EASTERN RETAINING WALLS, CUT BACK EXISTING END BENTS 4'-6", AND CUT BACK BENT NO. 2 5'-0".

DRIVE NEW PILES AND EXTEND EXISTING BENTS AS SHOWN ON PLANS.

CONSTRUCT NEW EASTERN RETAINING WALLS AS SHOWN ON PLANS.

ADD NEW CHANNEL BEAMS AS SHOWN ON PLANS.

MOUNT NEW METAL HANDRAIL ON EASTERN NARROWBACK UNIT.

MOUNT NEW TYPE H RAIL ON PARAPETS.

**NOTE:**

ALL DIMENSIONS TAKEN FROM ORIGINAL CONSTRUCTION PLANS. DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

**GENERAL NOTES**

CONSTRUCTION SPECIFICATIONS:  
CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS (NOVEMBER 2015)

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS NOTED OTHERWISE IN THE PLANS, SECTION AND SUBSECTION NUMBERS REFER TO THE CONSTRUCTION SPECIFICATIONS.

**DESIGN SPECIFICATIONS:** (FOR NEW WORK)  
STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17TH EDITION - 2002)  
LIVE LOADING: HS20

**MATERIALS AND STRENGTHS:**

CLASS S(AE) CONCRETE  $f'_c = 4,000$  PSI  
CLASS S CONCRETE  $f'_c = 3,500$  PSI  
REINFORCING STEEL (AASHTO M31 OR M322, TYPE A, GR. 60)  $f_y = 60,000$  PSI  
STRUCTURAL STEEL (ASTM A709, GR. 36)  $F_y = 36,000$  PSI

**SHOP DRAWINGS & REQUEST FOR SUBSTITUTIONS:**  
ALL SHOP DRAWINGS AND REQUEST FOR SUBSTITUTIONS SHALL BE SENT TO THE SEALING ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

**CONCRETE:**  
CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED  $\frac{3}{4}$ " UNLESS OTHERWISE NOTED. ALL SUPERSTRUCTURE CONCRETE SHALL BE CLASS S(AE) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 4,000$  PSI. ALL SUBSTRUCTURE CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF  $f'_c = 3,500$  PSI.

THE CONCRETE BETWEEN CURBS SHALL BE GIVEN A GROOVED FINISH IN ACCORDANCE WITH SUBSECTION 802.19 FOR CLASS 7 GROOVED BRIDGE ROADWAY SURFACE FINISH. SIDEWALKS SHALL BE GIVEN A CLASS 6 BROOMED FINISH. THE EXTERIOR VERTICAL FACES OF THE PRECAST UNITS SHALL BE GIVEN A CLASS 3 TEXTURED COATING FINISH PER SECTION 802.19(b)(3). IN ADDITION, ALL EXPOSED SURFACES OF THE EXISTING CONCRETE END BENTS, INTERMEDIATE BENT, WINGWALLS, AND TOP AND SIDES OF CONCRETE PARAPETS SHALL BE GIVEN A CLASS 3 TEXTURED COATING FINISH PER SUBSECTION 802.19(b)(3). TEXTURE COATING THE EXISTING CONCRETE SURFACES SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO OTHER ITEMS OF WORK.

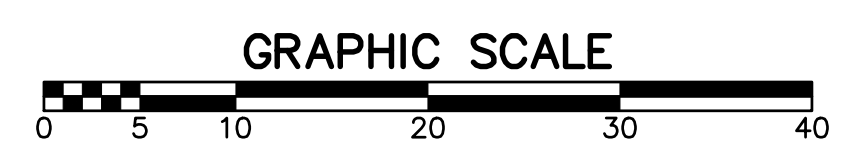
**CONCRETE PILING**  
PILING IN BENTS 1 THROUGH 3 SHALL BE 16" SQUARE PRECAST CONCRETE AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM OR DIESEL HAMMER TO A MINIMUM SAFE BEARING CAPACITY OF 95 TONS PER PILE IN BENTS 1 AND 3, AND 140 TONS PER PILE AT BENT 2.

PILING IN END BENTS SHALL BE DRIVEN AFTER EMBANKMENT TO BOTTOM OF CAP IS IN PLACE. DRIVE ALL PILES TO A MINIMUM PENETRATION OF 20' BELOW NATURAL GROUND. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING QUANTITIES ONLY. ACTUAL LENGTHS ARE TO BE DETERMINED IN THE FIELD. NO ADDITIONAL PAYMENT WILL BE MADE FOR CUT-OFF OR BUILD-UP. TEST PILES ARE NOT REQUIRED, BUT MAY BE DRIVEN FOR THE CONTRACTOR'S INFORMATION IN ACCORDANCE WITH SUBSECTION 805.08(G).

**REINFORCING STEEL:**  
ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, TYPE A GR. 60. MILL TEST REPORTS SHALL BE SUBMITTED FOR REINFORCING STEEL. THE REINFORCING STEEL IS TO BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY STEEL WIRE SUPPORTS, SUFFICIENT IN NUMBER AND SIZE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION. THE WIRE SUPPORTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL (GRADE 60)."

**EXISTING UTILITIES:**  
THERE IS A POSSIBILITY THAT UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE PLANS, AND THE LOCATION OF THE UTILITIES MAY VARY FROM THE APPROXIMATE LOCATION SHOWN ON THE PLANS. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITY ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE SYSTEM.



REVISIONS	DATE

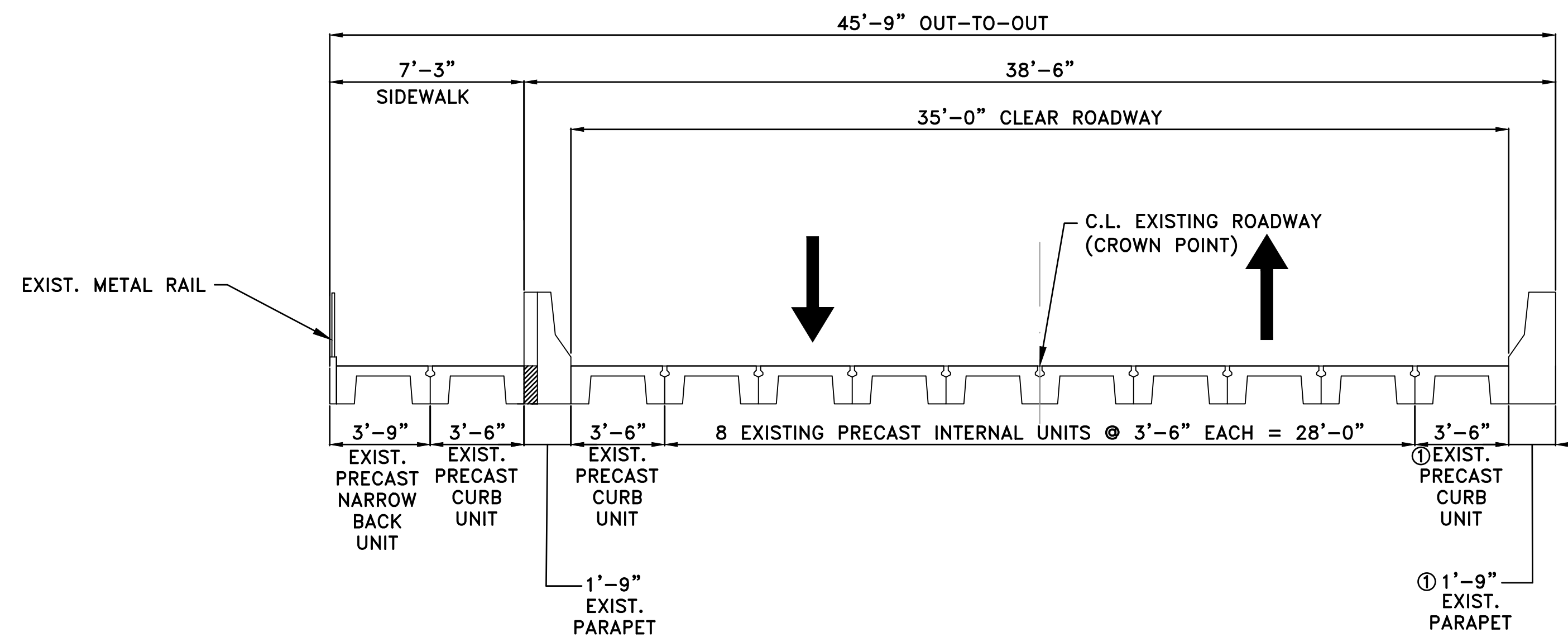
CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
LAYOUT OF BRIDGE

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

90% COMPLETE

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KDH  
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JPC  
CHECKED  
SFH  
DATE  
06/2019  
SCALE  
1" = 10'  
PROJECT NO.  
CLR#7-17-ST-357  
SHEET NO.  
S1

REVISIONS	DATE



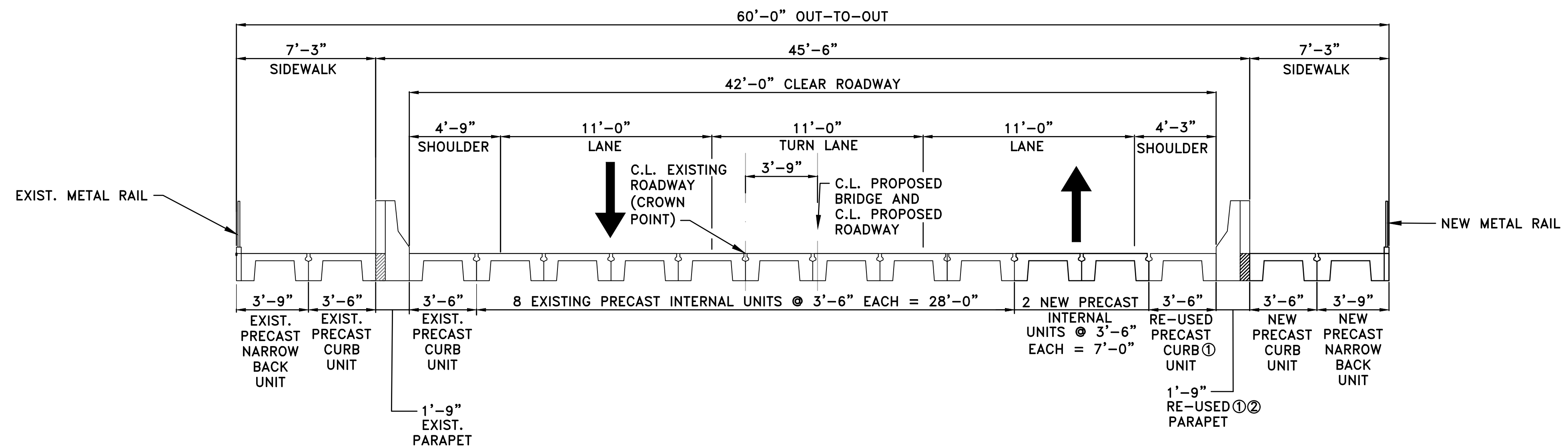
**NOTES:**

① RE-USE EXISTING PRECAST CURB UNIT AND PRECAST PARAPET UNIT IN WIDENED BRIDGE.

② FILL 6" VOID BETWEEN RE-USED PARAPET AND NEW CURB UNIT WITH CLASS-S CONCRETE SIMILAR TO EXISTING WEST SIDE OF BRIDGE. ALL CONCRETE, REINFORCEMENT, FABRICATION, AND ERECTION TO COMPLETE THE WORK SHALL BE CONSIDERED SUBSIDIARY AND PAID FOR UNDER THE UNIT PRICE BID FOR "25' PRECAST CONCRETE CURB UNIT".

ALL DIMENSIONS TAKEN FROM ORIGINAL CONSTRUCTION PLANS. DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

**TYPICAL SECTION - EXISTING PRECAST BRIDGE DECK**  
(LOOKING FORWARD)



**TYPICAL SECTION - WIDENED PRECAST BRIDGE DECK**  
(LOOKING FORWARD)

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
TYPICAL SECTION

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JPC  
CHECKED  
SFH  
DATE  
06/2019  
SCALE  
1/4" = 1'-0"  
PROJECT NO.  
CLR#7-17-ST-357  
SHEET NO.  
S2

**BORING LOG NO. B-1**

Page 1 of 2

PROJECT: Chicot Road Expansion		CLIENT: Michael Baker International, LLC Little Rock, Arkansas										
SITE: Chicot Road Little Rock, Arkansas												
GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.6506° Longitude: -92.3633°	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	STRENGTH TEST			WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
	TEST TYPE					COMPRESSIVE STRENGTH (psf)	STRAIN (%)					
	See Exhibit A-2 Latitude: 34.6506° Longitude: -92.3633°	0			7-4-4 N=8			16		NP		
		6-7-3 N=10	22									
		2-2-2 N=4	19									
		3-4-4 N=8	16									
		2-2-7 N=9									NP	22
		3-5-6 N=11										
		10										
		15										
		20			8-12-10 N=22			36		102-27-75	98	
		25			6-9-11 N=20			35				

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method: 0 to 10 feet: Hollow-stem auger 10 to 50 feet: Wash rotary with 2-7/8" drag bit	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).	Notes:
Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite	See Appendix C for explanation of symbols and abbreviations.	
<b>WATER LEVEL OBSERVATIONS</b> <i>Water level not determined</i>	25809   30 Bryant, AR	Boring Started: 02-18-2019
		Boring Completed: 02-18-2019
		Drill Rig:
		Driller: JB
		Project No.: 35185100
		Exhibit: A-1

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_35185100-CHICOT ROAD EXPAN.GPJ MODELAYER.GPJ 3/17/219

**BORING LOG NO. B-1**

Page 2 of 2

PROJECT: Chicot Road Expansion		CLIENT: Michael Baker International, LLC Little Rock, Arkansas										
SITE: Chicot Road Little Rock, Arkansas												
GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.6506° Longitude: -92.3633°	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	STRENGTH TEST			WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
	TEST TYPE					COMPRESSIVE STRENGTH (psf)	STRAIN (%)					
	See Exhibit A-2 Latitude: 34.6506° Longitude: -92.3633°	30			6-11-14 N=25			36				
		35				6-11-12 N=23			34		88-31-57	78
		40				11-50/2"			26			
		45				50/6"			31			
		50				28-16-17 N=33			31			
				50			<b>Boring Terminated at 50 Feet</b>					

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method: 0 to 10 feet: Hollow-stem auger 10 to 50 feet: Wash rotary with 2-7/8" drag bit	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).	Notes:
Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite	See Appendix C for explanation of symbols and abbreviations.	
<b>WATER LEVEL OBSERVATIONS</b> <i>Water level not determined</i>	25809   30 Bryant, AR	Boring Started: 02-18-2019
		Boring Completed: 02-18-2019
		Drill Rig:
		Driller: JB
		Project No.: 35185100
		Exhibit: A-1

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_35185100-CHICOT ROAD EXPAN.GPJ MODELAYER.GPJ 3/17/219

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 BORING LOG (1)

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

90% COMPLETE

DRAWN BY  
**KDH**  
 DESIGNED  
**JPC**  
 CHECKED  
**SFH**  
 DATE  
**06/2019**  
 SCALE  
**NO SCALE**  
 PROJECT NO.  
**CLR#7-17-ST-357**  
 SHEET NO.  
**S3**



REVISIONS	DATE

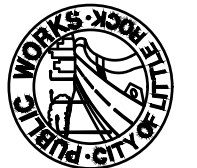
BORING LOG NO. B-2												Page 1 of 2	
PROJECT: Chicot Road Expansion						CLIENT: Michael Baker International, LLC Little Rock, Arkansas							
SITE: Chicot Road Little Rock, Arkansas													
GRAPHIC LOG	LOCATION See Exhibit A-2		DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	STRENGTH TEST		WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES	
	Latitude: 34.6504° Longitude: -92.3633°						TEST TYPE	COMPRESSIVE STRENGTH (psf)					STRAIN (%)
	0.7												
	PORTLAND CEMENT CONCRETE - 8 inches												
	SILTY SAND (SM), trace gravel, fine grained, brown and gray, medium dense to very loose					6-7-8 N=15			9				
						5-4-3 N=7			12				34
						2-1-2 N=3			15				
						1-1-1 N=2			16				
						2-2-1 N=3			21				13
13.5													
FAT CLAY (CH), dark gray, stiff to hard					3-4-6 N=10			41					
					6-8-12 N=20			37		100-27-73		99	
					7-10-12 N=22			37					
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic													
Advancement Method: 0 to 50 feet: Hollow-stem auger			See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).			Notes:							
Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite			See Appendix C for explanation of symbols and abbreviations.										
WATER LEVEL OBSERVATIONS			Boring Started: 02-15-2019			Boring Completed: 02-15-2019							
8.5 feet while drilling			Drill Rig:			Driller: JB							
Terracon			Project No.: 35185100			Exhibit: A-2							
25809   30 Bryant, AR													

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_35185100 CHICOT ROAD EXPAN.GPJ MODEL LAYER.GPJ 3/17/2019

BORING LOG NO. B-2												Page 2 of 2	
PROJECT: Chicot Road Expansion						CLIENT: Michael Baker International, LLC Little Rock, Arkansas							
SITE: Chicot Road Little Rock, Arkansas													
GRAPHIC LOG	LOCATION See Exhibit A-2		DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	STRENGTH TEST		WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES	
	Latitude: 34.6504° Longitude: -92.3633°						TEST TYPE	COMPRESSIVE STRENGTH (psf)					STRAIN (%)
	30					8-10-13 N=23			34				
						6-8-12 N=20			36				
						8-13-21 N=34			30		72-19-53	87	
50.0													
Boring Terminated at 50 Feet													
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic													
Advancement Method: 0 to 50 feet: Hollow-stem auger			See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).			Notes:							
Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite			See Appendix C for explanation of symbols and abbreviations.										
WATER LEVEL OBSERVATIONS			Boring Started: 02-15-2019			Boring Completed: 02-15-2019							
8.5 feet while drilling			Drill Rig:			Driller: JB							
Terracon			Project No.: 35185100			Exhibit: A-2							
25809   30 Bryant, AR													

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_35185100 CHICOT ROAD EXPAN.GPJ MODEL LAYER.GPJ 3/17/2019

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
BORING LOG (2)

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

90% COMPLETE

DRAWN BY  
 KDH  
 DESIGNED  
 JPC  
 CHECKED  
 SFH  
 DATE  
 06/2019  
 SCALE  
 NO SCALE  
 PROJECT NO.  
 CLR#7-17-ST-357  
 SHEET NO.  
**S4**

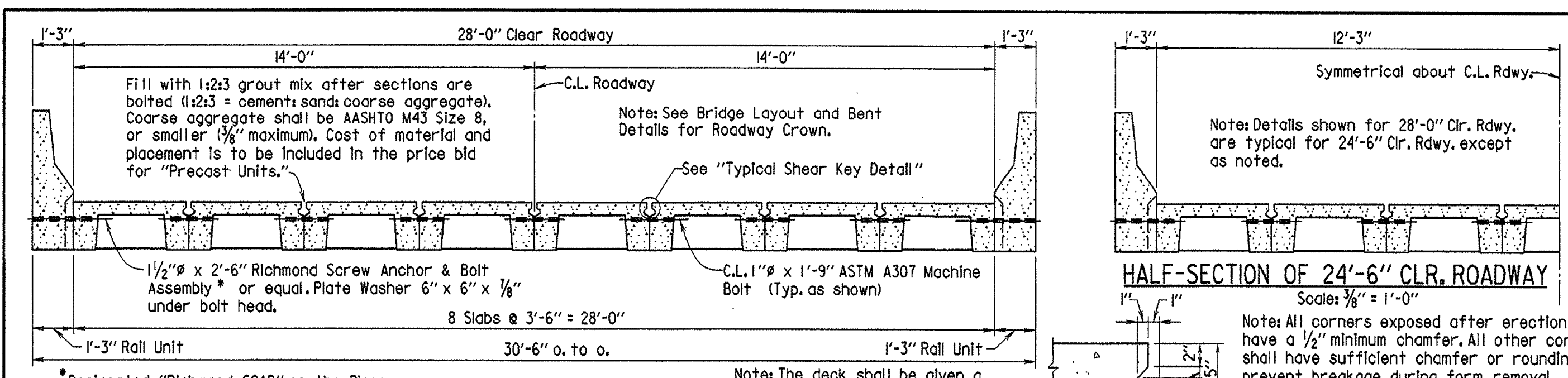
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CHANNEL BEAMS

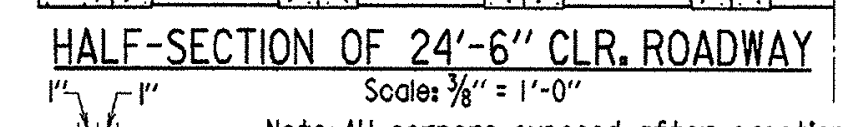
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

90% COMPLETE

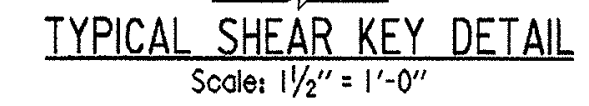
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 KDH  
 DESIGNED  
 JPC  
 CHECKED  
 SFH  
 DATE  
 06/2019  
 SCALE  
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 PROJECT NO.  
 CLR#7-17-ST-357  
 SHEET NO.  
**S5**



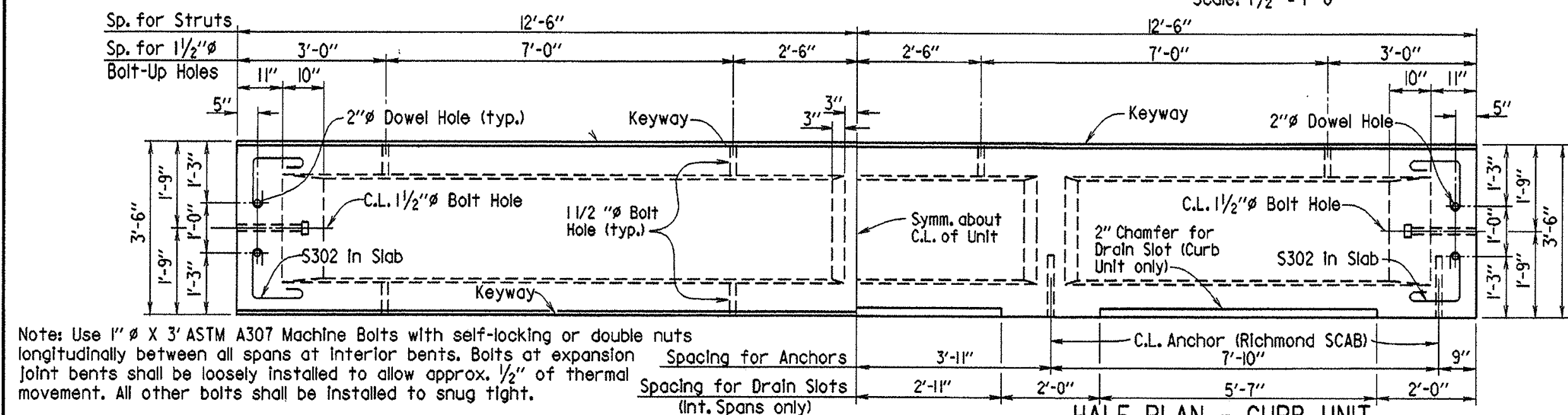
**CROSS-SECTION OF 28'-0" CLR. RDWY. (SHOWING ASSEMBLY)**  
Scale: 3/8" = 1'-0"



**HALF-SECTION OF 24'-6" CLR. RDWY.**  
Scale: 3/8" = 1'-0"

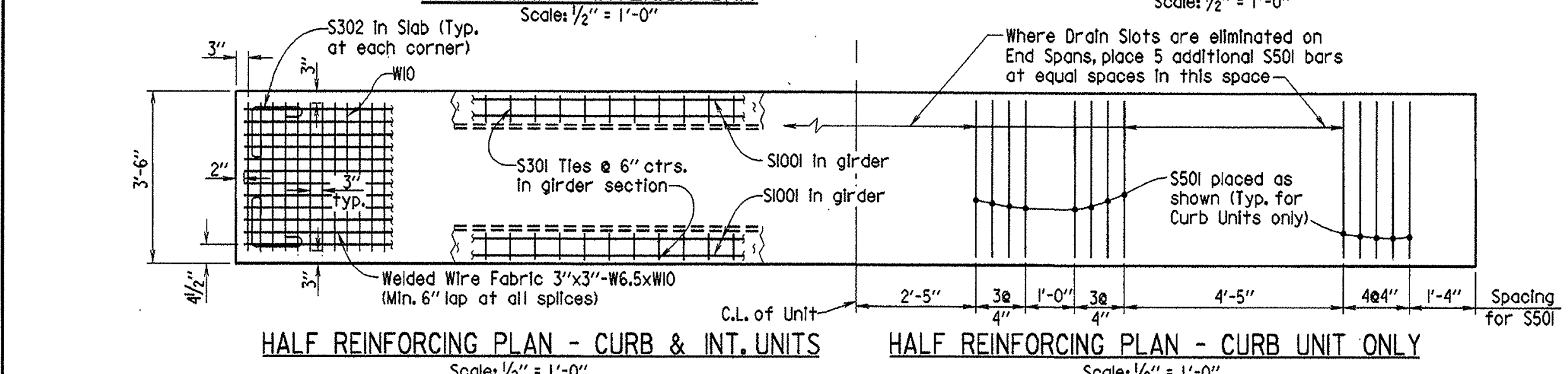


**TYPICAL SHEAR KEY DETAIL**  
Scale: 1/2" = 1'-0"



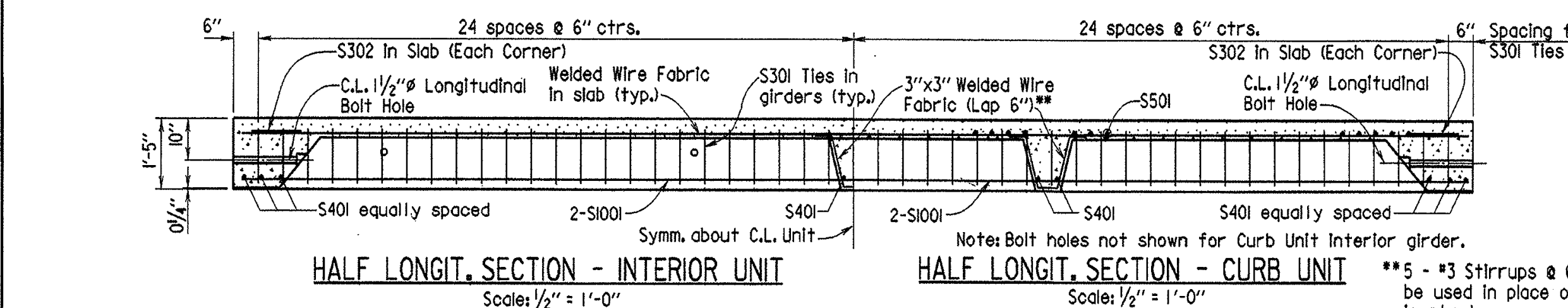
**HALF PLAN - INTERIOR UNIT**  
Scale: 1/2" = 1'-0"

**HALF PLAN - CURB UNIT**  
Scale: 1/2" = 1'-0"



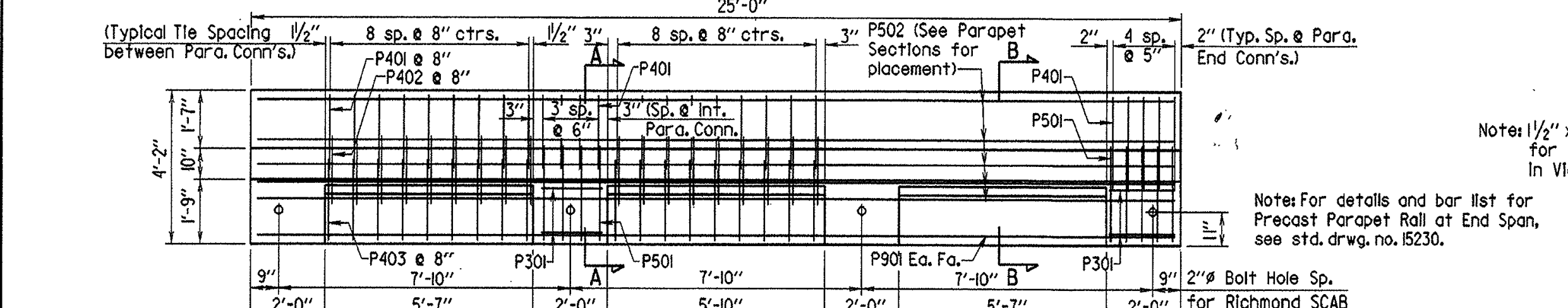
**HALF REINFORCING PLAN - CURB & INT. UNITS**  
Scale: 1/2" = 1'-0"

**HALF REINFORCING PLAN - CURB UNIT ONLY**  
Scale: 1/2" = 1'-0"



**HALF LONGIT. SECTION - INTERIOR UNIT**  
Scale: 1/2" = 1'-0"

**HALF LONGIT. SECTION - CURB UNIT**  
Scale: 1/2" = 1'-0"



**FRONT ELEVATION - PRECAST PARAPET RAIL FOR INT. SPAN**  
Scale: 3/8" = 1'-0"

**BAR LIST FOR PRECAST BRIDGE COMPONENTS**  
**PRECAST SLAB UNIT**

Note: Bars designated with an "E" are to be epoxy coated.

MARK	NUMBER REQUIRED		LENGTH	P.D.
	CURB UNIT	INT. UNIT		
S301	98	98	3'-3 1/2"	1 1/2"
S302	4	4	2'-9"	1 1/2"
S401	10	8	3'-2"	Str.
S501	26 (A)	-	4'-6"	2 1/2"
S601E	(B)	(B)	1'-11"	Str.
S1001	4	4	24'-8"	Str.

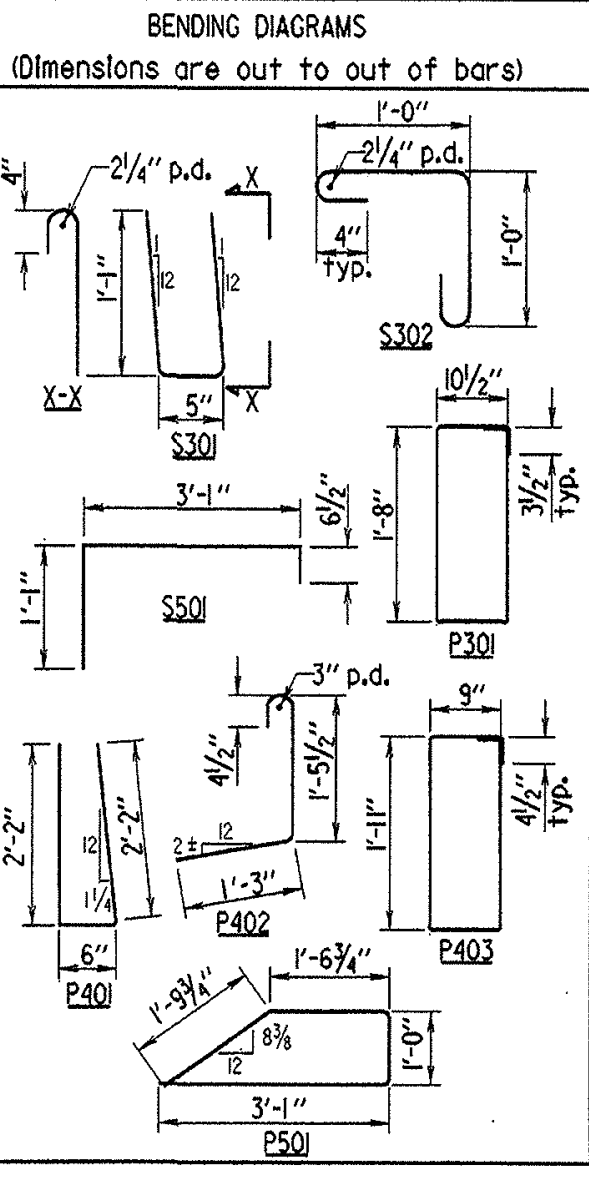
(A) Plus 5 additional for each Drain Slot eliminated  
(B) 2 Per Fixed end of each Unit

**PRECAST PARAPET RAIL UNIT**

MARK	NUMBER REQUIRED		LENGTH	P.D.
	END SPAN	INT. SPAN		
P301	8	8	5'-4"	1 1/2"
P401	45	45	4'-8"	2"
P402	27	27	3'-1 1/2"	2"
P403	27	27	5'-8"	2"
P501	18	18	7'-2"	2 1/2"
P502	9	9	24'-8"	Str.
P901	2	2	24'-8"	Str.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6-24-94	6-27-94	11-16-2001		6	ARK.		20	
2-20-97	2-20-97	10-09-03						
01-12-2000	01-12-2000							

25' PRECAST SPAN (1524)



**GENERAL NOTES**  
 All reinforcing steel shall be AASHTO M31 or M53, Grade 60. Wire fabric shall be AASHTO M55 or M221. Reinforcing steel and wire fabric shall be accurately located in the forms and securely held in place by steel wire supports.

Concrete for precast units shall be Class (S)(A) except that the coarse aggregate size shall meet AASHTO M43, Size 67 (3/4" Max.).

Standard washers shall be provided under head and nut of all bolts in connection with concrete. Bolts shall be A307. All bolts, washers and nuts shall be galvanized to meet AASHTO M232, Class C or M298, Class 50.

Screw Anchor and Bolt Assembly (SCAB) shall be 1/2" Richmond Screw Anchor or equal, and have a minimum ultimate strength of 65,000 psi in tension. Assembly shall be galvanized to meet AASHTO M232, Class C or M298, Class 50. Plate Washers for SCAB shall be AASHTO M270, Grade 36 and shall be galvanized to meet AASHTO M111.

Camber required for dead load deflection is 1/4". Deviation of more than 1/4" in dimension of grade or line will be cause for rejection.

Concrete, reinforcing, wire mesh, bar supports, bolts, nuts, washers, threaded anchors, grout, roofing felt bearing pad and expansion joint fillers are considered subsidiary to the pay items for the Precast Concrete Units. Roofing felt shall meet or exceed the requirements of ASTM D224 Type I. See Section 802.18(d). The roofing felt shall be in one piece for the full length of the cap and three layers shall be used.

Ends of adjacent units shall be coated (1/8") with asphaltic paint. The coating shall adhere and set firm and its softening point shall not be less than 140°F.

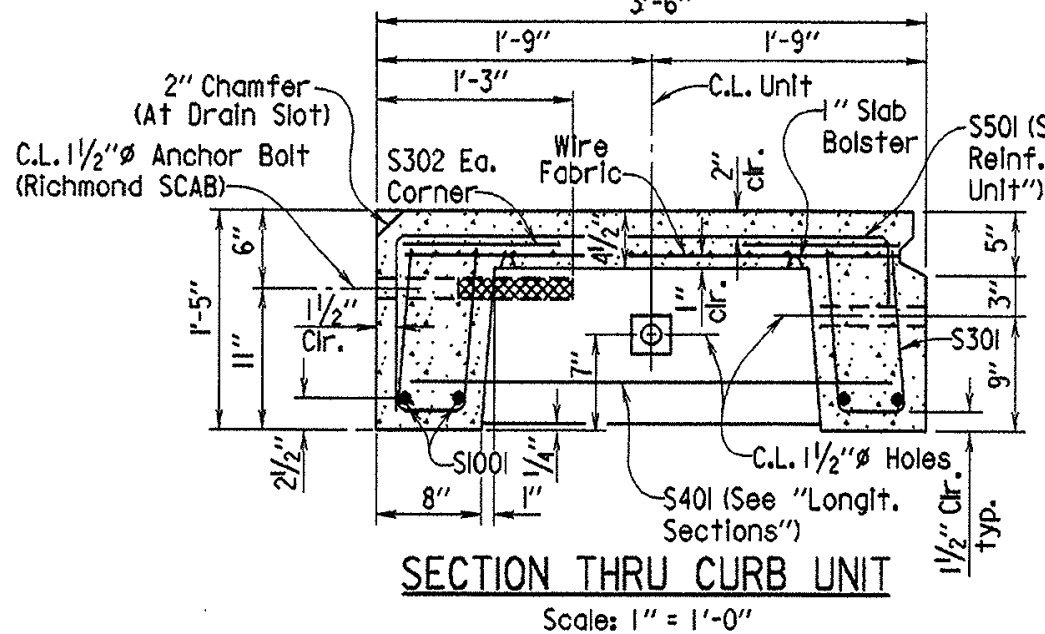
Bid items shall be as follows:  
 "25' Precast Concrete Curb Units"  
 "25' Precast Concrete Interior Units"  
 "25' Precast Parapet Rail Units"

Design Specifications: AASHTO 2002  
 Method of Design: Load Factor  
 Live Loading: HS 20, 0.9 Wheels per Unit  
 Materials: 28 Day compressive strength of Concrete = 4,000 psi  
 Yield strength of Grade 60 Steel = 60,000 psi  
 Yield strength of Wire Fabric = 65,000 psi

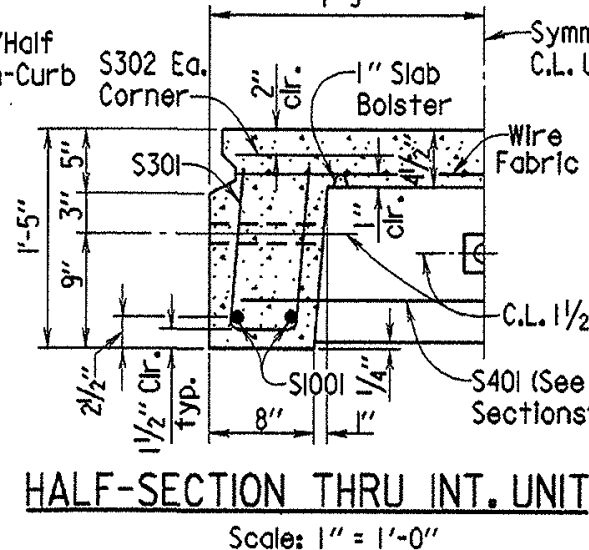
Seismic Performance Category: A, B or C  
 Seismic Performance Category A:  
 1. Maximum spacing between 1 Inch Expansion Joints is 155 feet.  
 2. 2" Dowel holes at expansion ends are not required. Grout holes if they exist.

Seismic Performance Category B or C:  
 All bents shall be fixed.  
 2. Do not use this drawing with bridge lengths that exceed 155 feet in Category B or 93 feet in Category C.

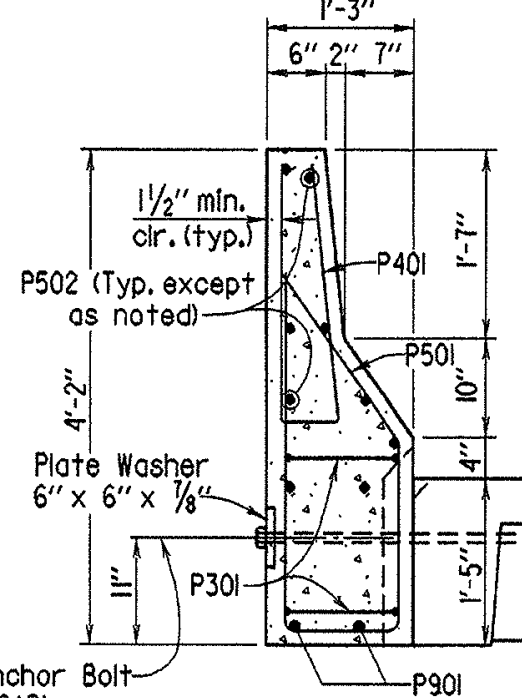
Note: For details and bar list for Precast Parapet Rail at End Span, see std. drwg. no. 15230.



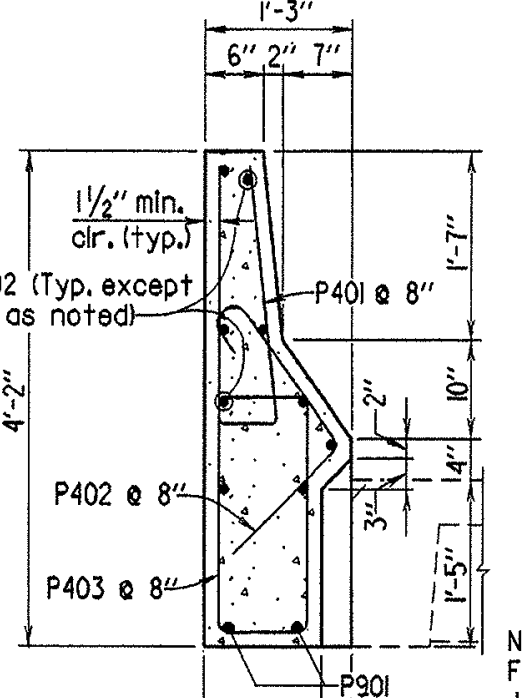
**SECTION THRU CURB UNIT**  
Scale: 1" = 1'-0"



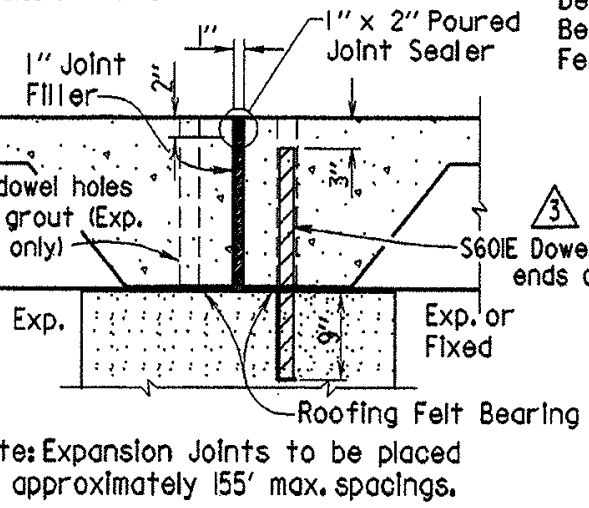
**HALF-SECTION THRU INT. UNIT**  
Scale: 1" = 1'-0"



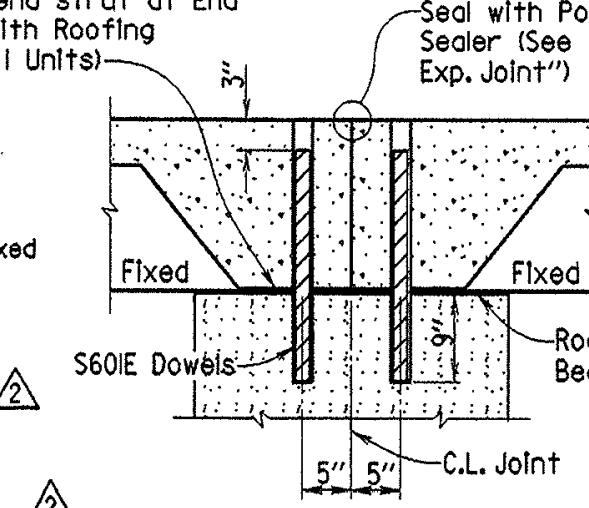
**SECTION A-A**  
Scale: 3/4" = 1'-0"



**SECTION B-B**  
Scale: 3/4" = 1'-0"



**SECTION AT EXP. JOINT (CATEGORY A BRIDGES ONLY)**  
Scale: 3/4" = 1'-0"



**SECTION AT FIXED BENT**  
No Scale

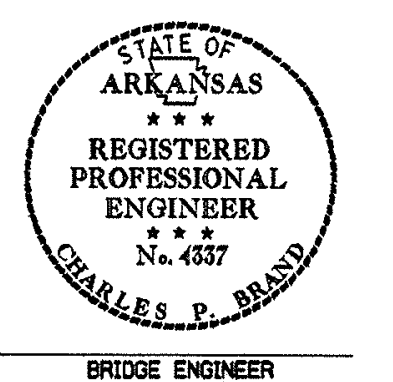
Note: Expansion Joints to be placed at approximately 155' max. spacings.

Note: After each unit is in its final position, S601E Dowels shall be grouted in place using a OPL approved non-shrink grout that completely fills the holes.

**DETAILS OF STANDARD 25'-0" PRECAST CONCRETE SPANS 28'-0" & 24'-6" CLEAR ROADWAYS**

ROUTE SEC.  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.

DRAWN BY: MJT DATE: 01-09-97  
 CHECKED BY: RLW DATE: 01-31-97  
 DESIGNED BY: STD. DATE: -  
 BRIDGE NO. SCALE: As Shown  
 DRAWING NO. 15241

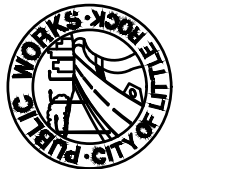


FILE NAME: B15240, STD

B15241, STD

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**CHICOT ROAD RECONSTRUCTION**  
 BENT 1 RETAINING WALL

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

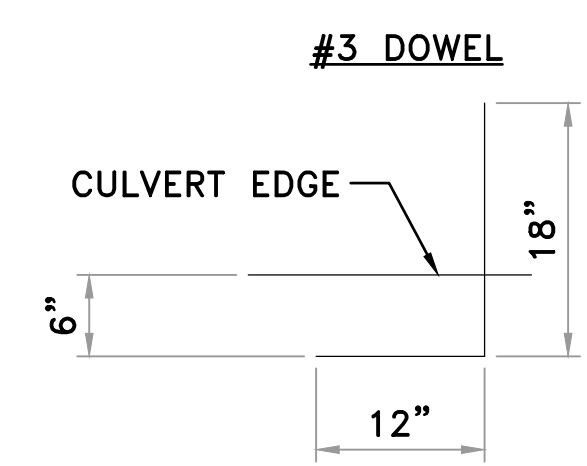
90% COMPLETE

DRAWN BY  
 KDH  
 DESIGNED  
 JPC  
 CHECKED  
 SFH  
 DATE  
 06/2019  
 SCALE  
 AS NOTED  
 PROJECT NO.  
 CLR #7-17-ST-357  
 SHEET NO.  
**S6**

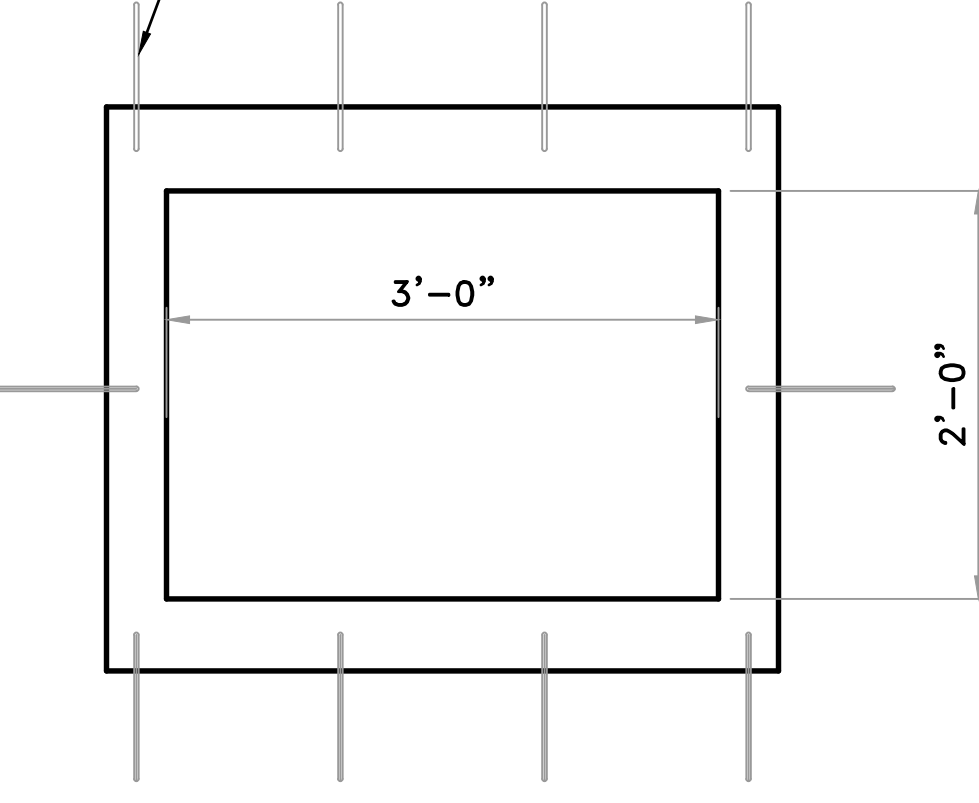
**BAR LIST - SLAB & FOOTING**

MARK	NO.	REQ'D.	LENGTH	P.D.
F401-F407	2	each	16'-5" to 22'-6"	STR.
F408	2		22'-6"	STR.
F409	2		21'-6"	STR.
F501	32		8-9"	STR.
F502-F506	2	each	4'-1" to 8'-1"	STR.
F507	2		2'-7"	STR.
W401	8		21'-0"	3"
W402	4		7'-1"	STR.
W403	4		10'-5"	3"
W404	2		19'-5"	STR.
W405	2		1'-4"	STR.
W406	6		3'-11"	3"
W501-W509	2	each	7'-5" to 7'-11"	3 3/4"
W510-W523	2	each	8'-6" to 9'-4"	3 3/4"
W524	6		9'-4"	3 3/4"
W601-W605	2	each	8'-0" to 8'-2"	4 1/2"
W606-W610	2	each	8'-6" to 8'-9"	4 1/2"
W611	12		3'-6"	4 1/2"
W612-W617	2	each	2'-4" to 2'-8"	STR.
X601	8		7'-0"	STR.
X602	8		6'-0"	STR.
X603	8		5'-1"	STR.

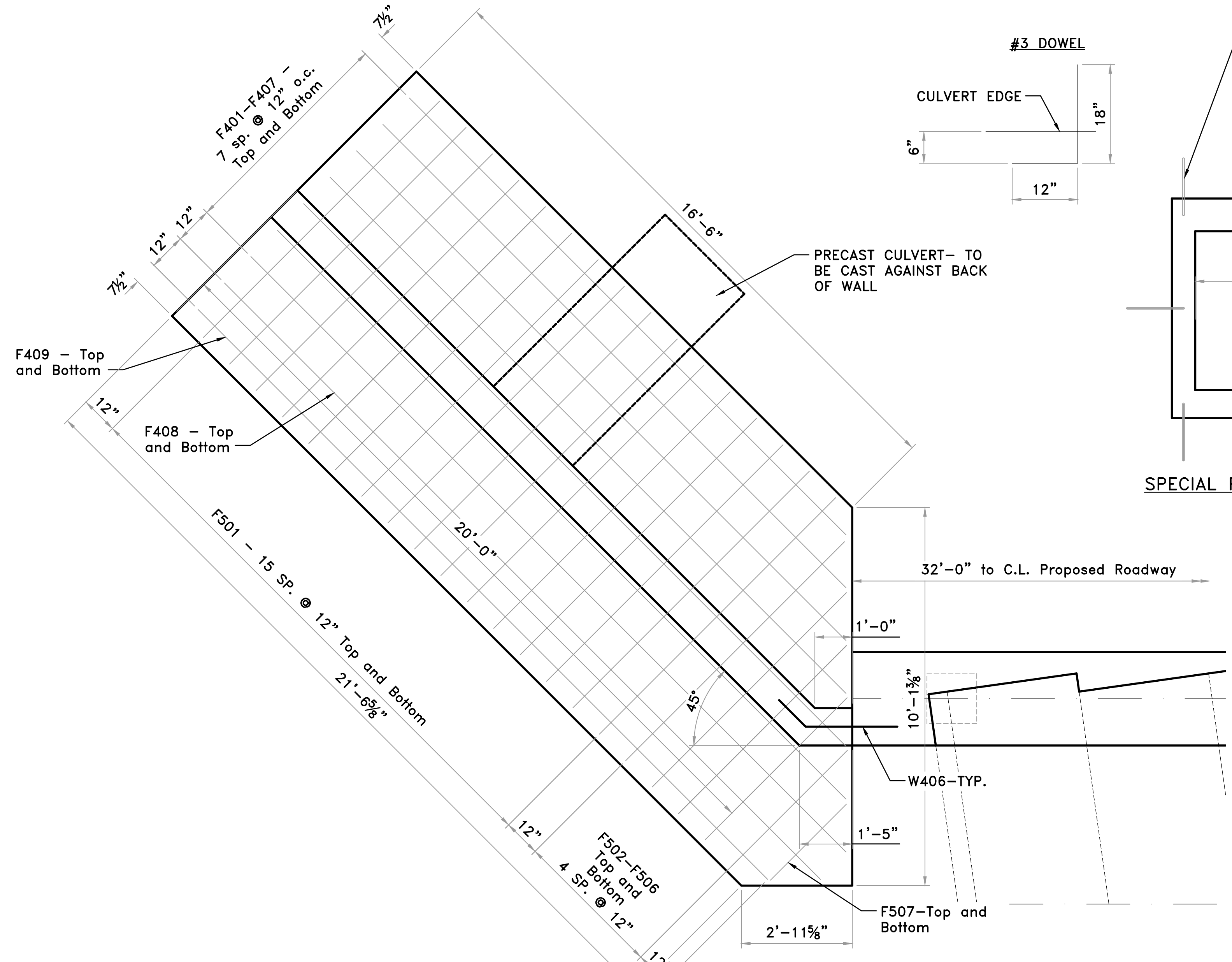
DIMENSIONS ARE OUT TO OUT OF BARS.



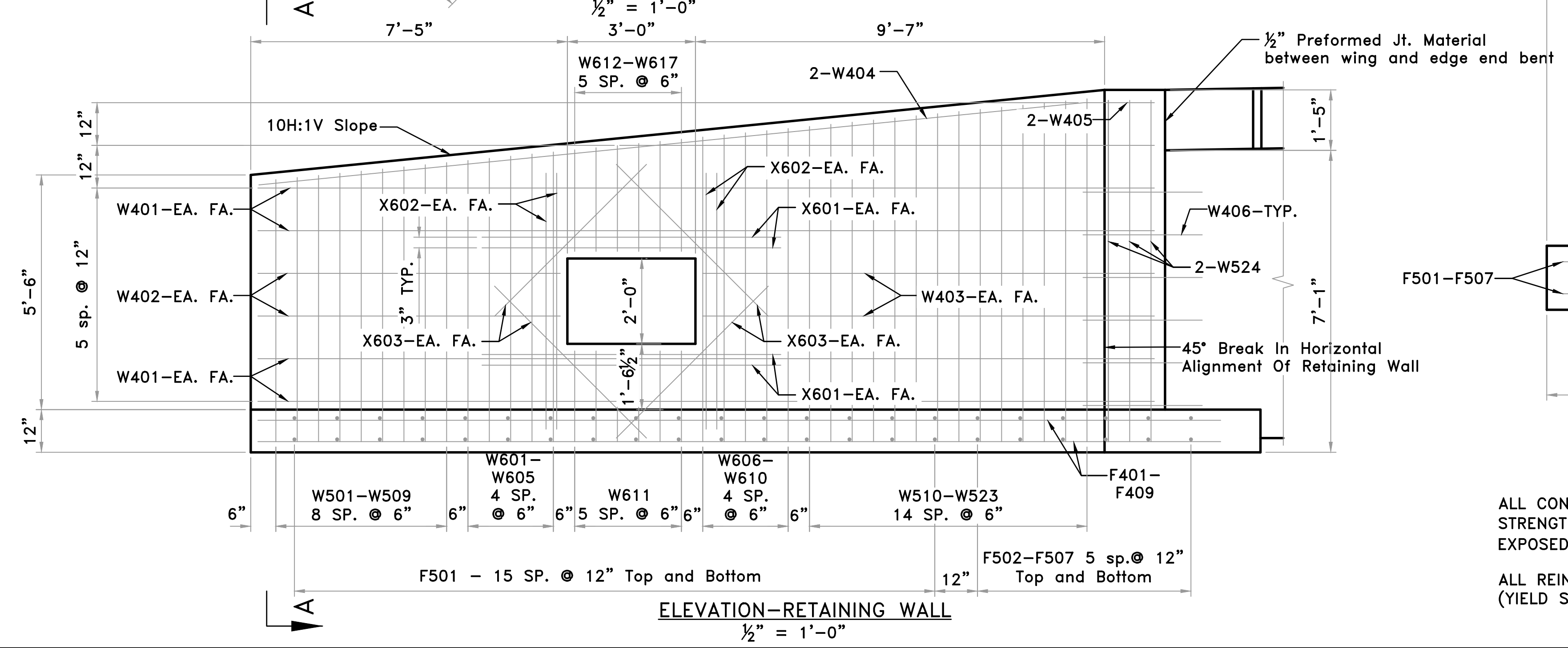
#3 DOWELS TO BE CAST INTO THE PRECAST CULVERT, AND THEN CAST INTO THE RETAINING WALL. DOWELS SHALL PROTRUDE OUT OF THE CULVERT 6". BARS SHALL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE CULVERT.



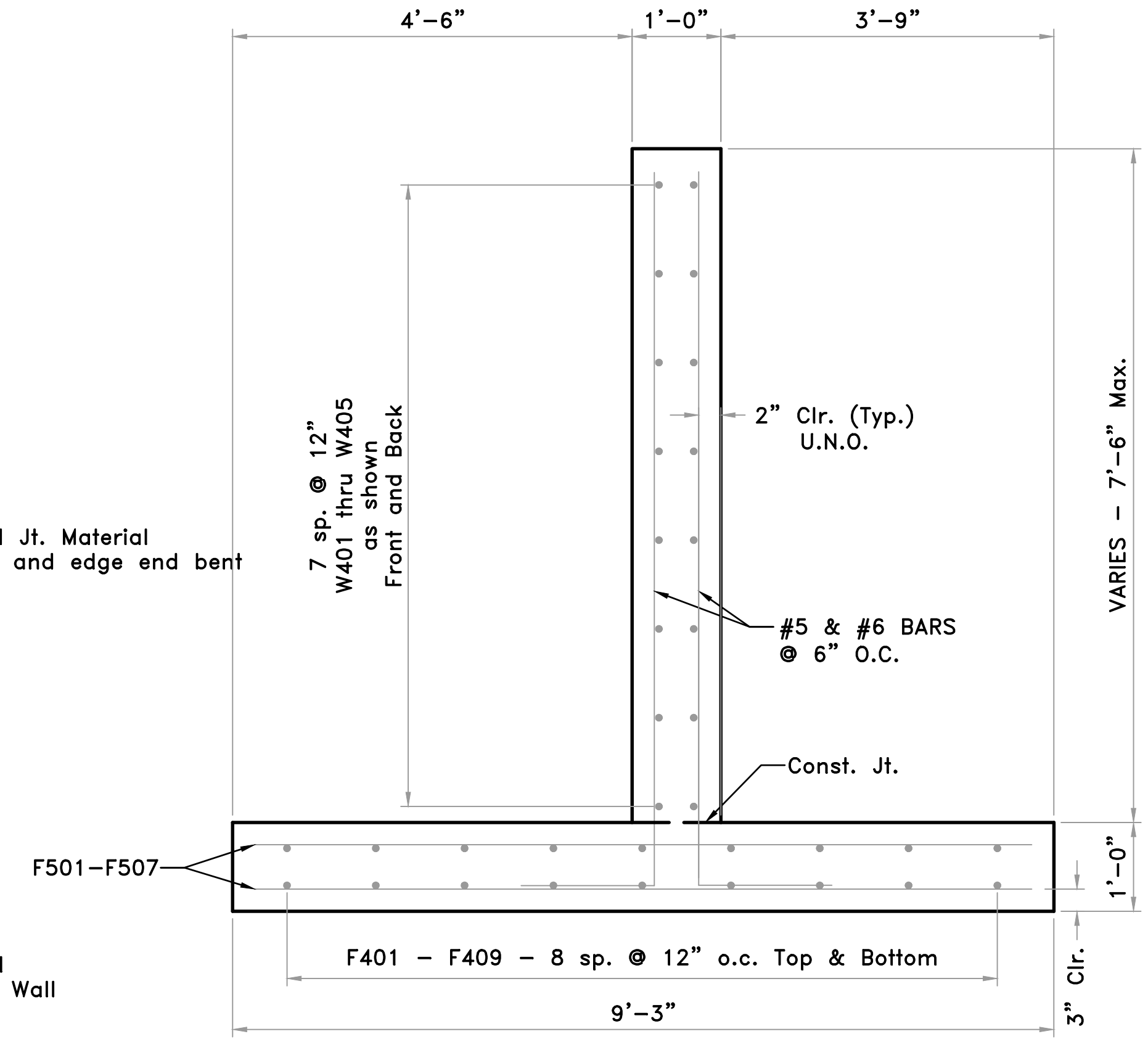
**SPECIAL PRECAST CULVERT DETAILS**  
NO SCALE



**PLAN-RETAINING WALL**  
1/2" = 1'-0"



**ELEVATION-RETAINING WALL**  
1/2" = 1'-0"



**SECTION A-A**  
3/4" = 1'-0"

**GENERAL NOTES**

ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 3,500$  PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 BENT 3 RETAINING WALL

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

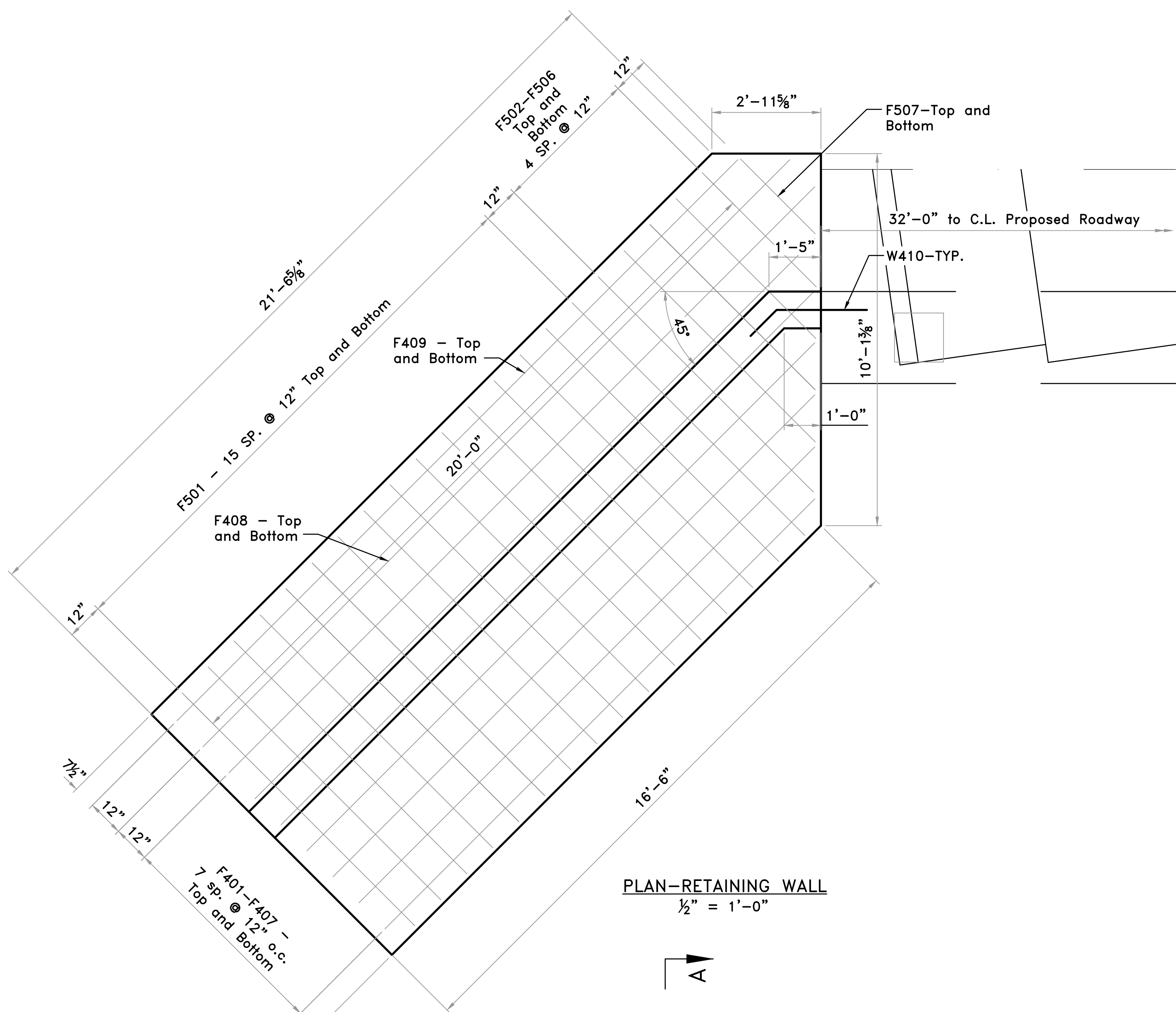
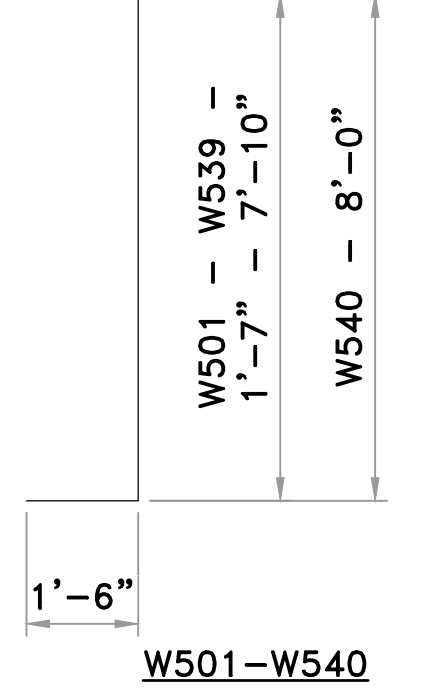
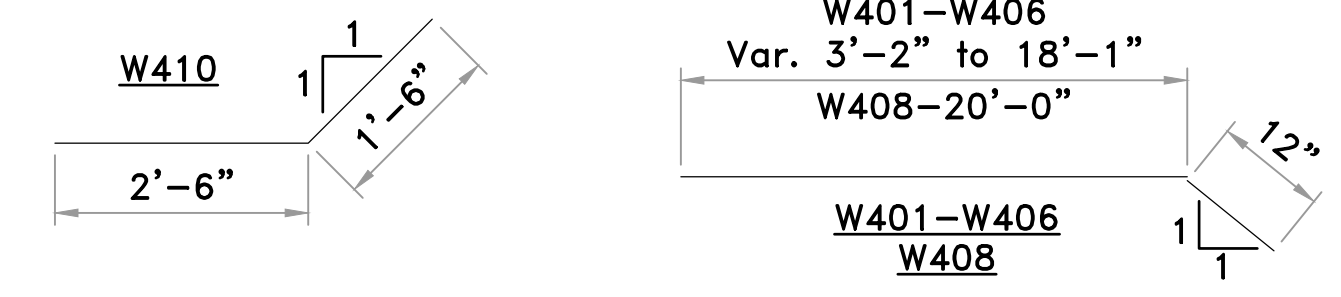
90% COMPLETE

DRAWN BY  
 KDH  
 DESIGNED  
 JPC  
 CHECKED  
 SFH  
 DATE  
 06/2019  
 SCALE  
 AS NOTED  
 PROJECT NO.  
 CLR #7-17-ST-357  
 SHEET NO.  
**S7**

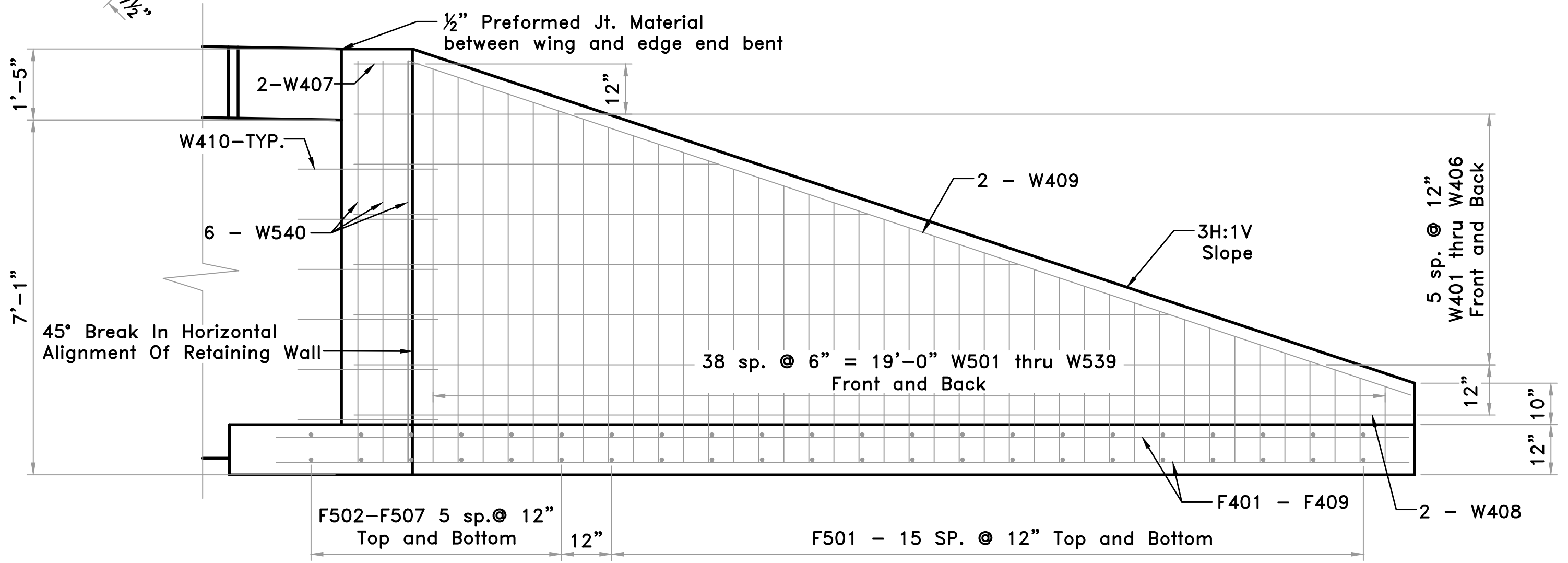
BAR LIST - SLAB & FOOTING

MARK	NO.	REQ'D.	LENGTH	P.D.
F401-F407	2	each	16'-5" to 22'-6"	STR.
F408	2		22'-6"	STR.
F409	2		21'-6"	STR.
F501	32		8'-9"	STR.
F502-F506	2	each	4'-1" to 8'-1"	STR.
F507	2		2'-7"	STR.
W401-W406	2	each	4'-2" to 19'-1"	3"
W407	2		1'-4"	STR.
W408	2		21'-0"	3"
W409	2		21'-1"	STR.
W410	6		3'-11"	3"
W501-W539	2	each	3'-0" to 9'-2"	3 3/4"
W540	6		9'-4"	3 3/4"

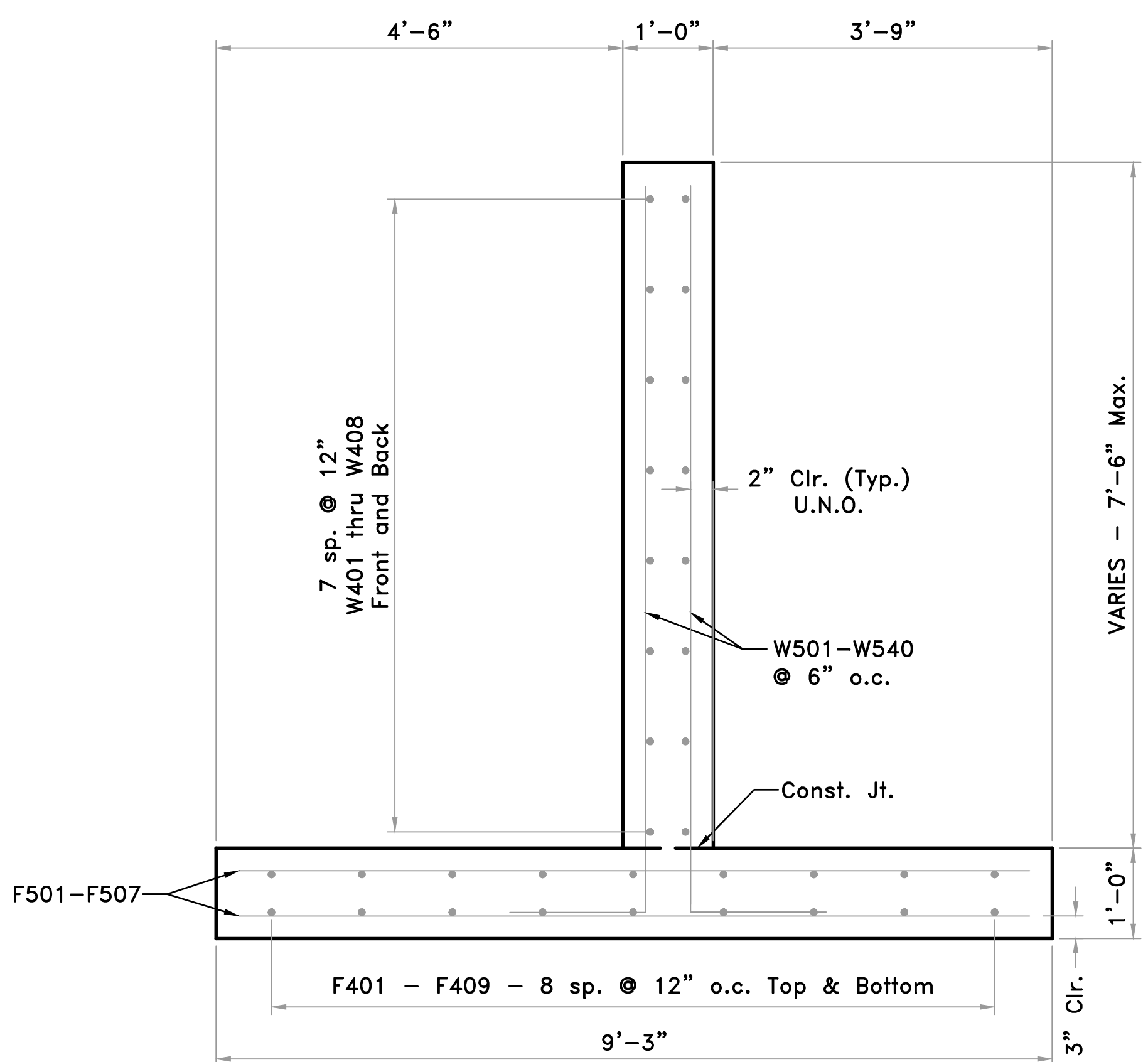
DIMENSIONS ARE OUT TO OUT OF BARS.



PLAN-RETAINING WALL  
 1/2" = 1'-0"

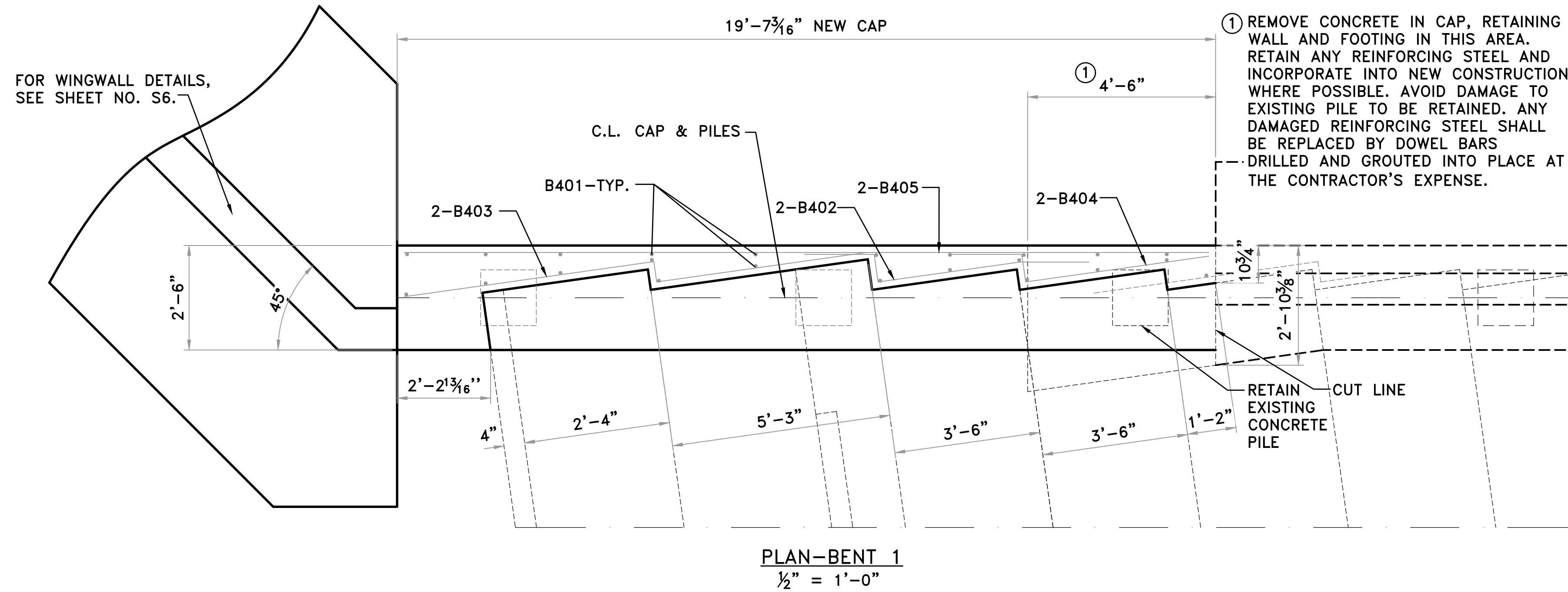


ELEVATION-RETAINING WALL  
 1/2" = 1'-0"



SECTION A-A  
 3/4" = 1'-0"

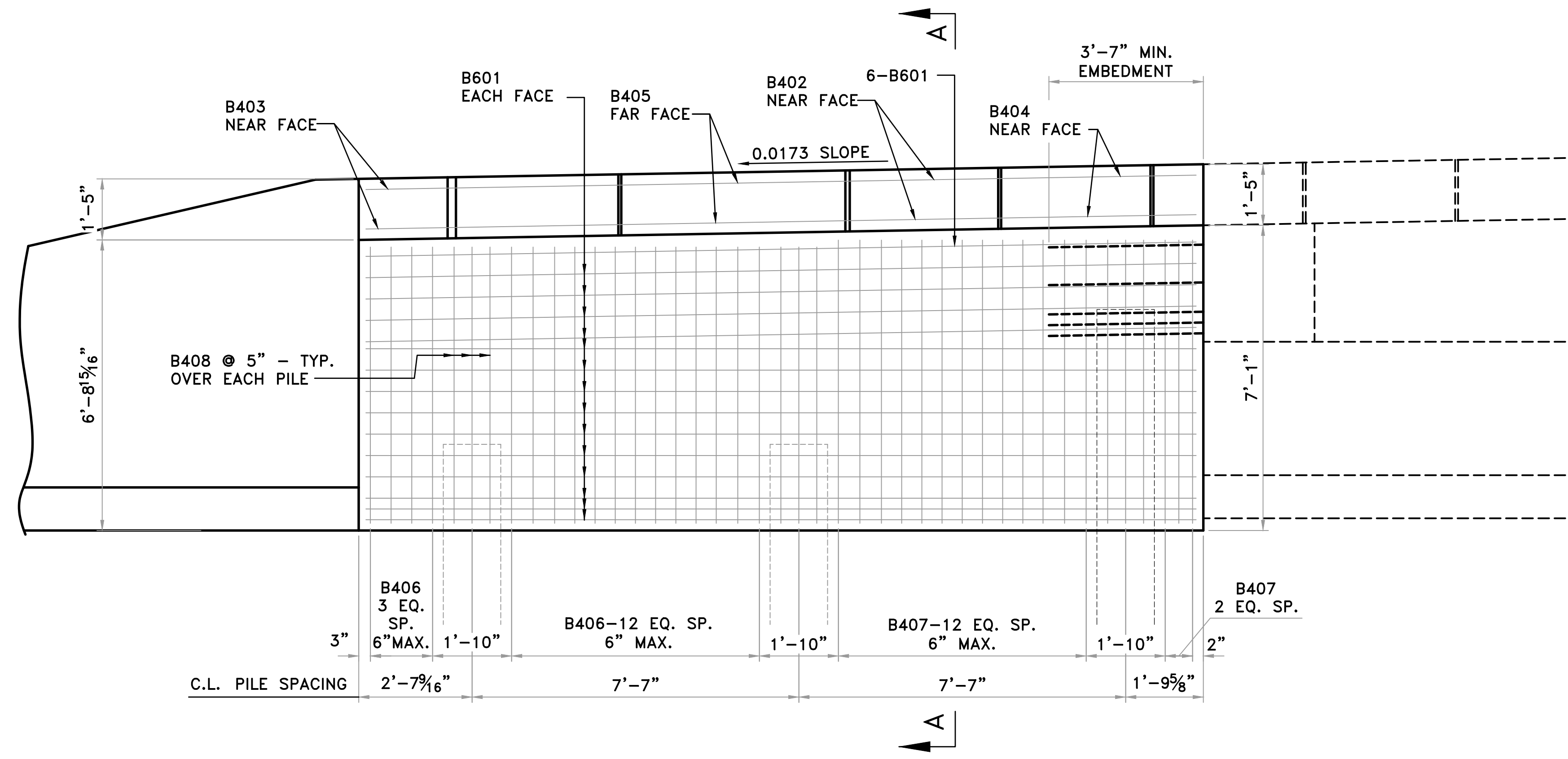
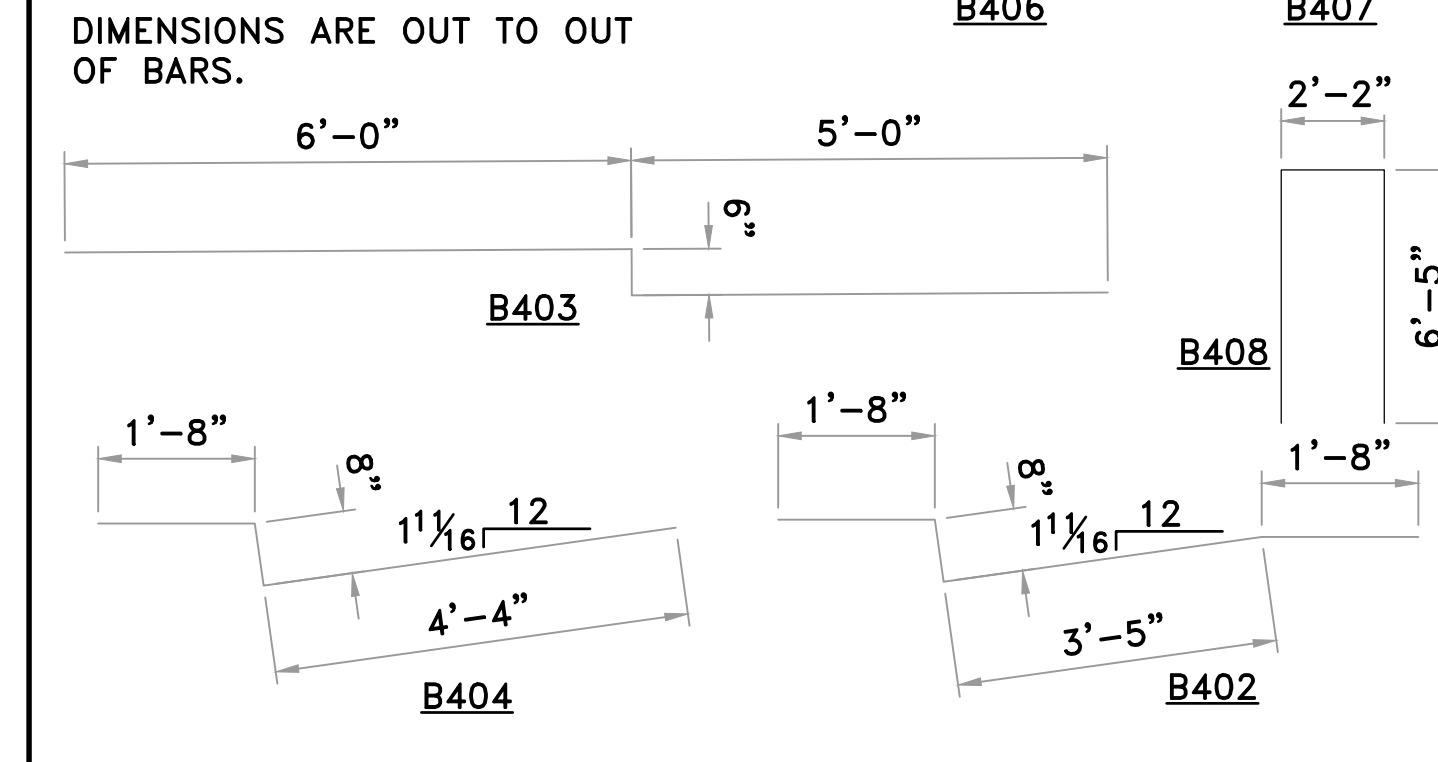
GENERAL NOTES  
 ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 3,500$  PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.  
 ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).



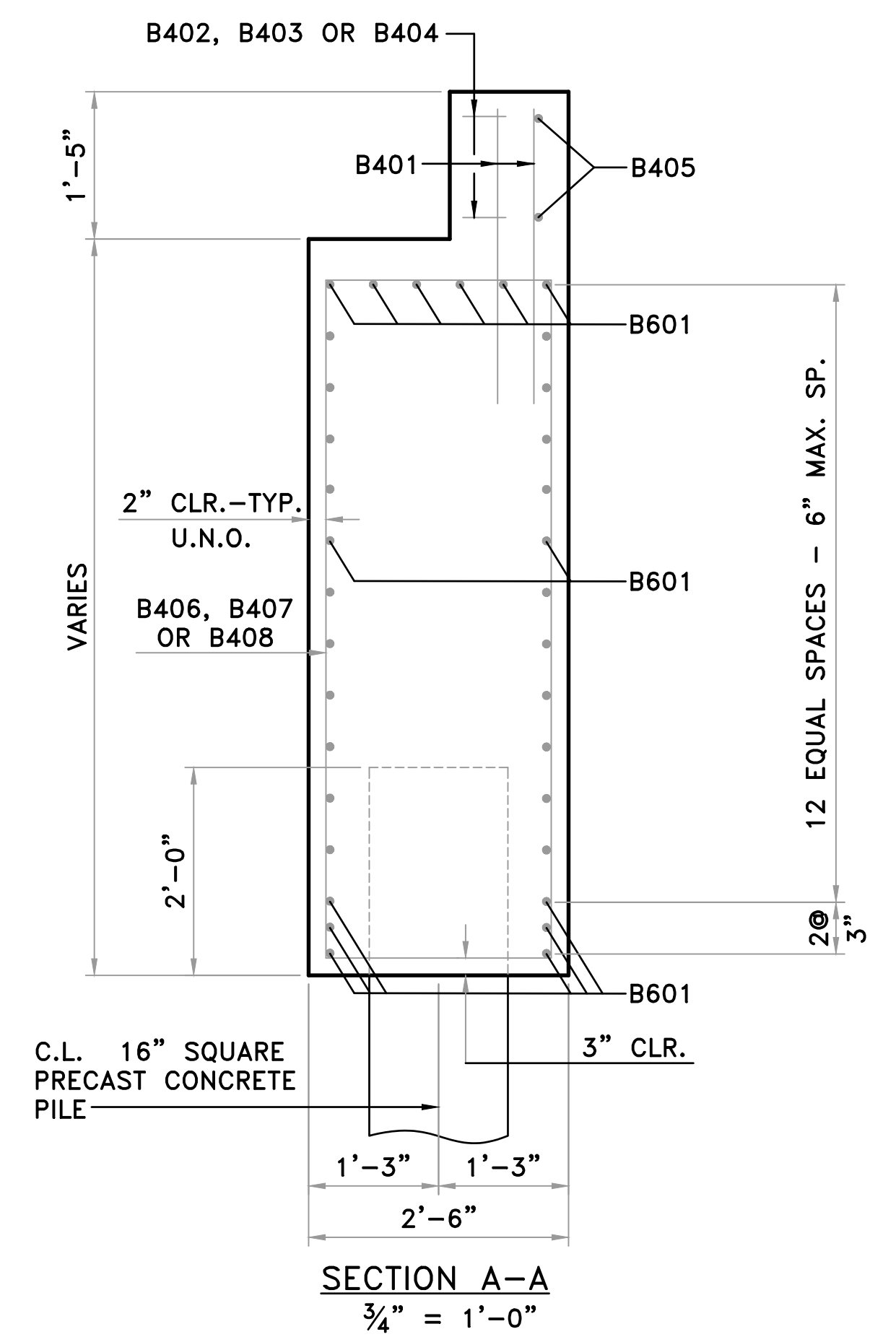
PLAN-BENT 1  
1/2" = 1'-0"

BAR LIST - BENT 1

MARK	NO.	REQ'D.	LENGTH	P.D.
B401	23		2'-10"	STR.
B402	2		7'-3"	2"
B403	2		11'-4"	2"
B404	2		6'-5"	2"
B405	2		19'-3"	STR.
B406	17		17'-6"	2"
B407	16		17'-10"	2"
B408	9		14'-10"	2"
B601	34		19'-3"	STR.



ELEVATION-BENT 1  
LOOKING BACK  
1/2" = 1'-0"



SECTION A-A  
3/4" = 1'-0"

**GENERAL NOTES**

ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 3,500$  PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

REVISIONS	DATE

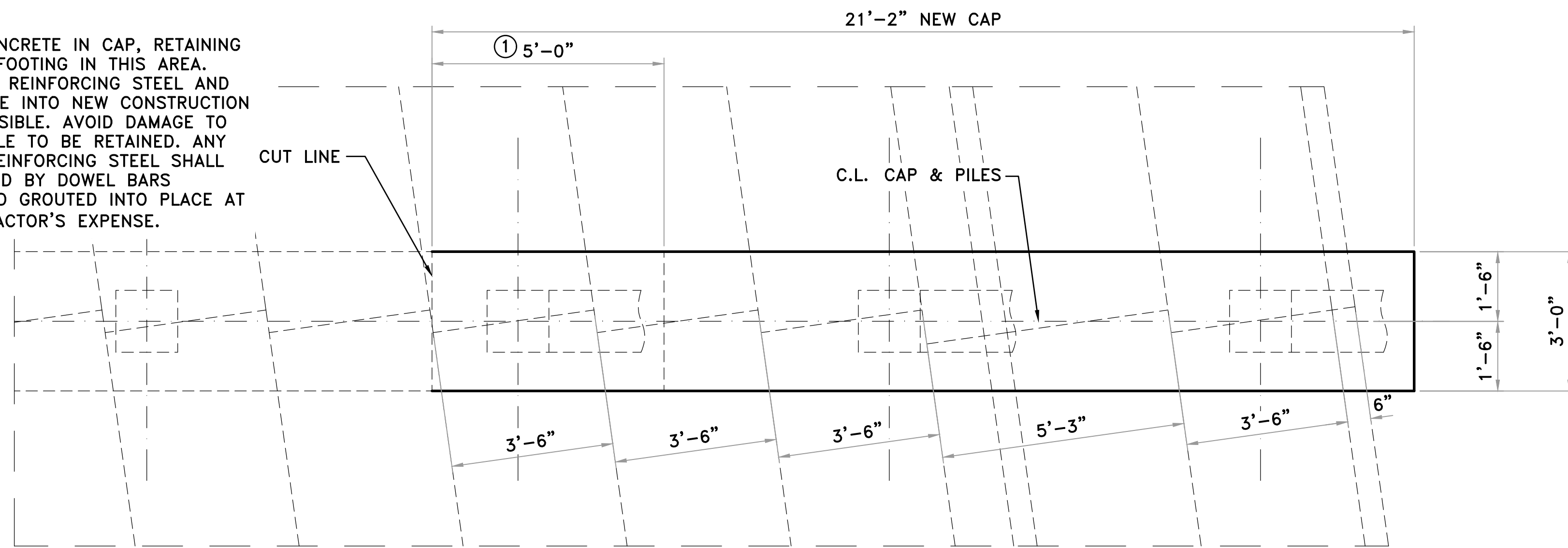
CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
BENT 1 DETAILS

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

90% COMPLETE

DRAWN BY  
KDH  
DESIGNED  
JPC  
CHECKED  
SFH  
DATE  
06/2019  
SCALE  
AS NOTED  
PROJECT NO.  
CLR #7-17-ST-357  
SHEET NO.  
58

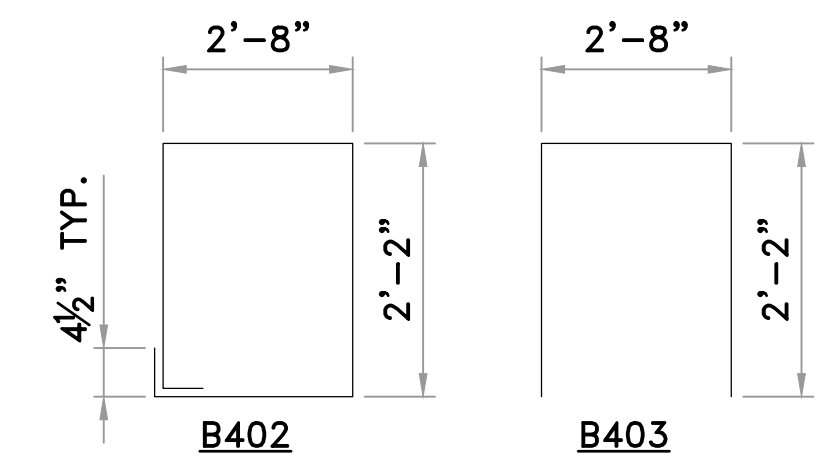
① REMOVE CONCRETE IN CAP, RETAINING WALL AND FOOTING IN THIS AREA. RETAIN ANY REINFORCING STEEL AND INCORPORATE INTO NEW CONSTRUCTION WHERE POSSIBLE. AVOID DAMAGE TO EXISTING PILE TO BE RETAINED. ANY DAMAGED REINFORCING STEEL SHALL BE REPLACED BY DOWEL BARS DRILLED AND GROUTED INTO PLACE AT THE CONTRACTOR'S EXPENSE.



PLAN-BENT 2  
1/2" = 1'-0"

BAR LIST - BENT 2

MARK	NO.	REQ'D.	LENGTH	P.D.
B401	2		20'-10"	STR.
B402	25		10'-0"	2"
B403	9		6'-10"	2"
B601	12		20'-10"	STR.



DIMENSIONS ARE OUT TO OUT OF BARS.

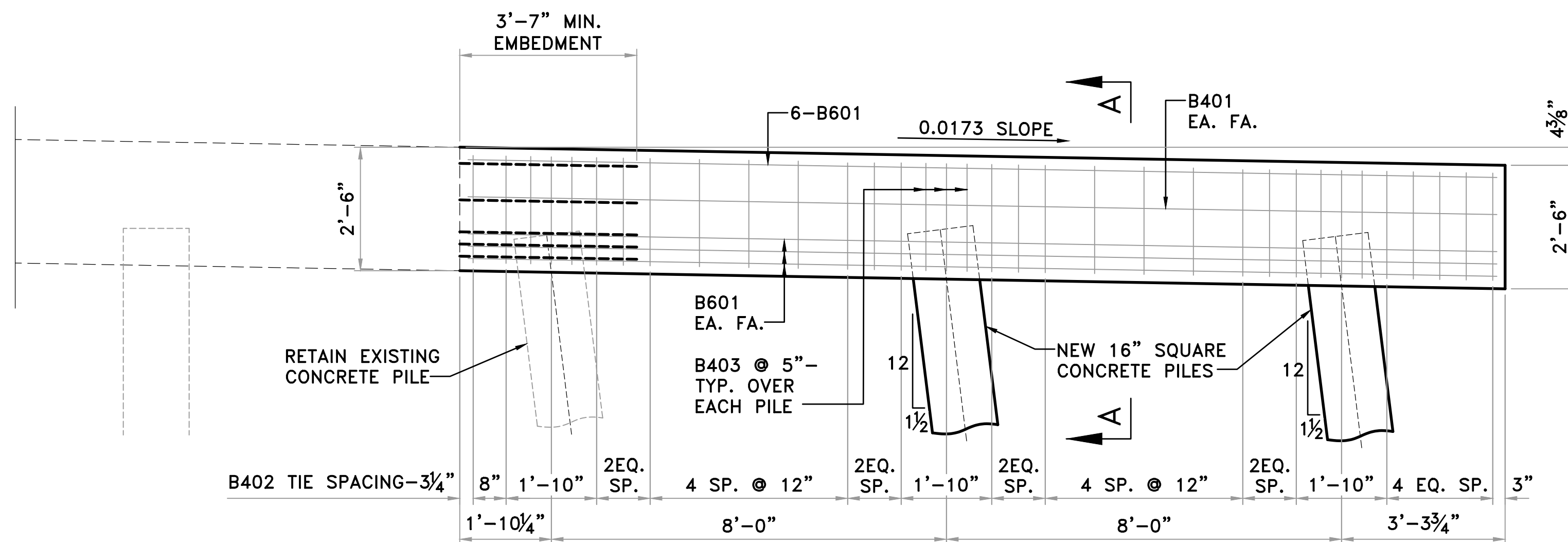
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
BENT 2 DETAILS

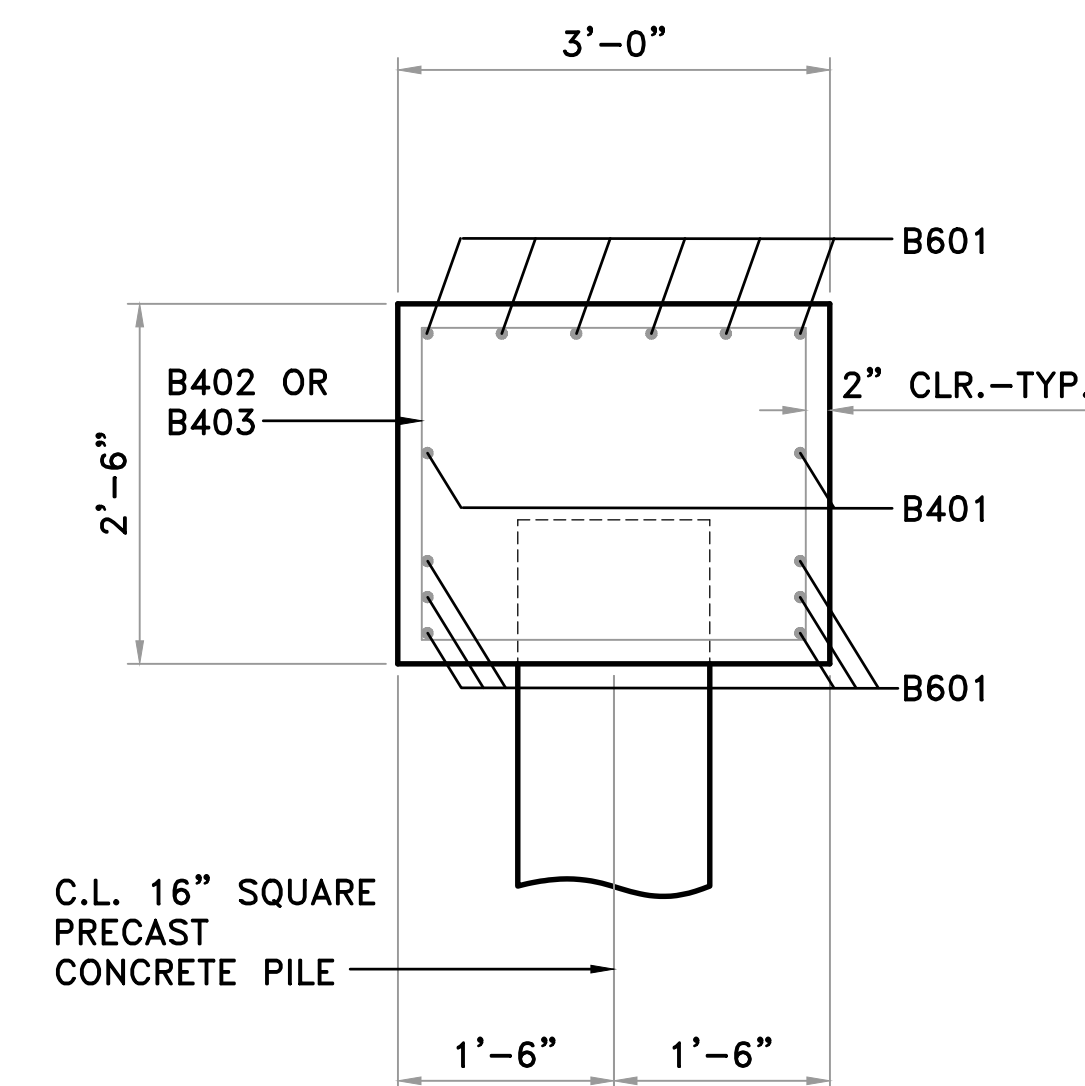
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201

90% COMPLETE

DRAWN BY  
KDH  
DESIGNED  
JPC  
CHECKED  
SFH  
DATE  
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AS NOTED  
PROJECT NO.  
CLR #7-17-ST-357  
SHEET NO.  
S9



ELEVATION-BENT 2  
LOOKING AHEAD  
1/2" = 1'-0"



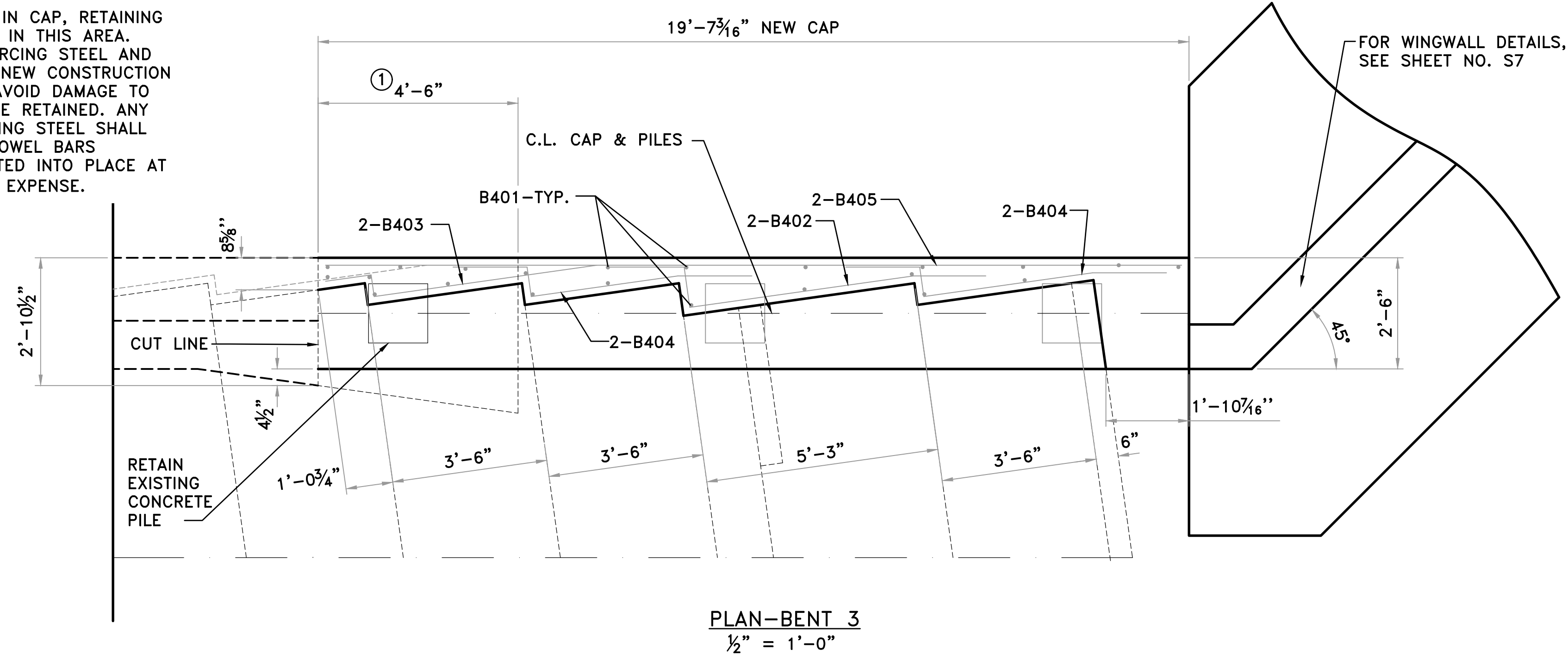
SECTION A-A  
3/4" = 1'-0"

GENERAL NOTES

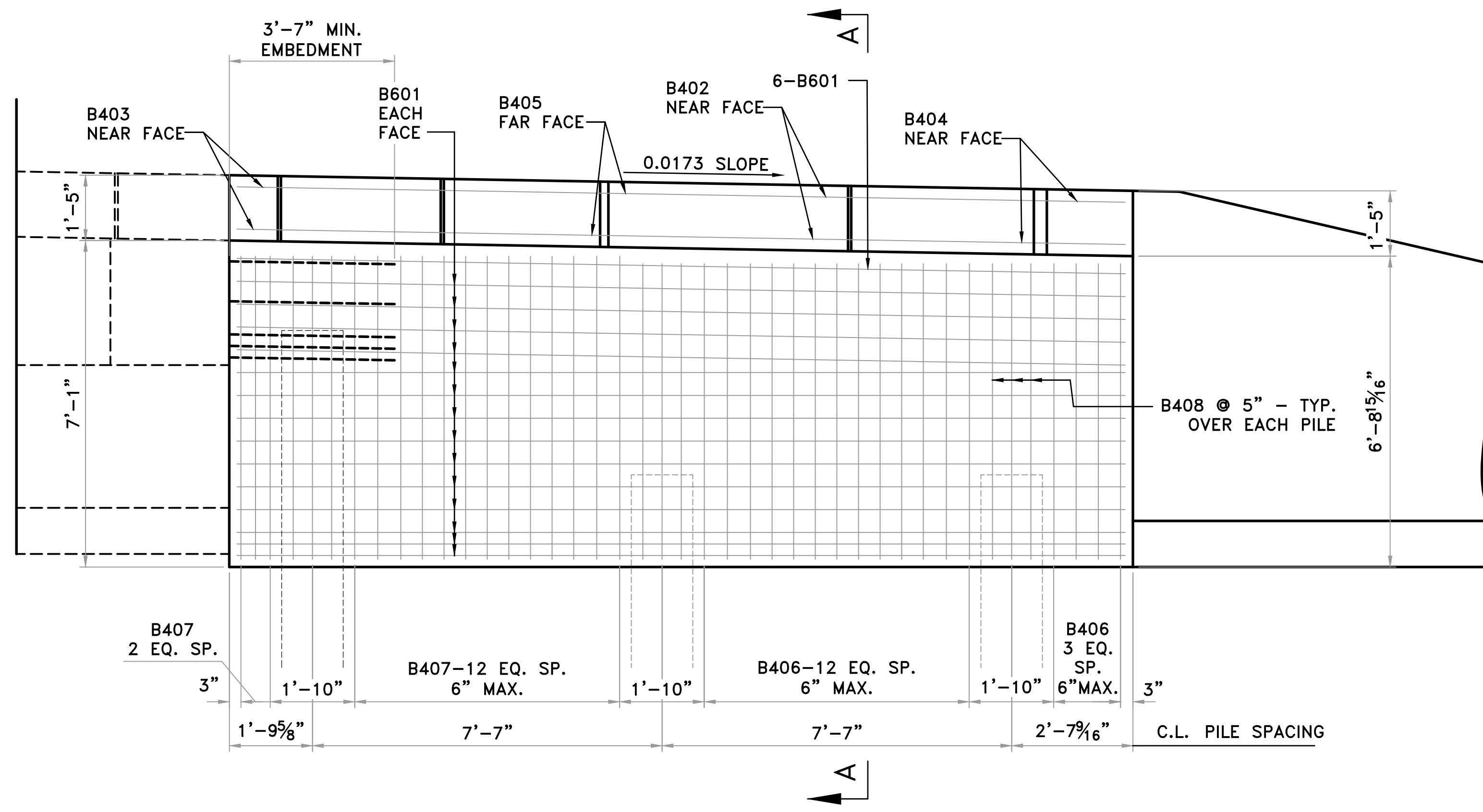
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 3,500$  PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

① REMOVE CONCRETE IN CAP, RETAINING WALL AND FOOTING IN THIS AREA. RETAIN ANY REINFORCING STEEL AND INCORPORATE INTO NEW CONSTRUCTION WHERE POSSIBLE. AVOID DAMAGE TO EXISTING PILE TO BE RETAINED. ANY DAMAGED REINFORCING STEEL SHALL BE REPLACED BY DOWEL BARS DRILLED AND GROUTED INTO PLACE AT THE CONTRACTOR'S EXPENSE.



PLAN-BENT 3  
1/2" = 1'-0"



ELEVATION-BENT 3  
LOOKING BACK  
1/2" = 1'-0"

GENERAL NOTES

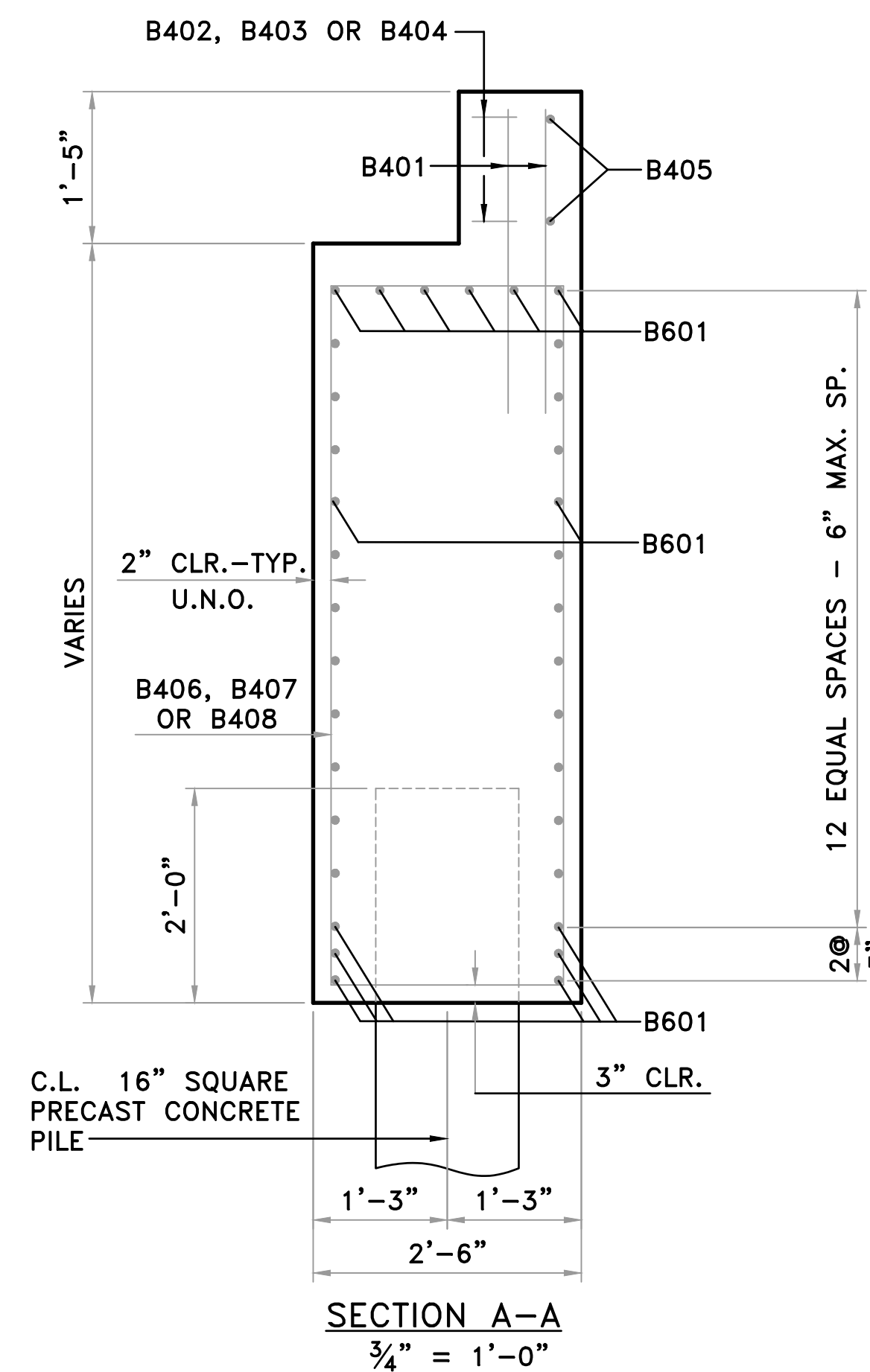
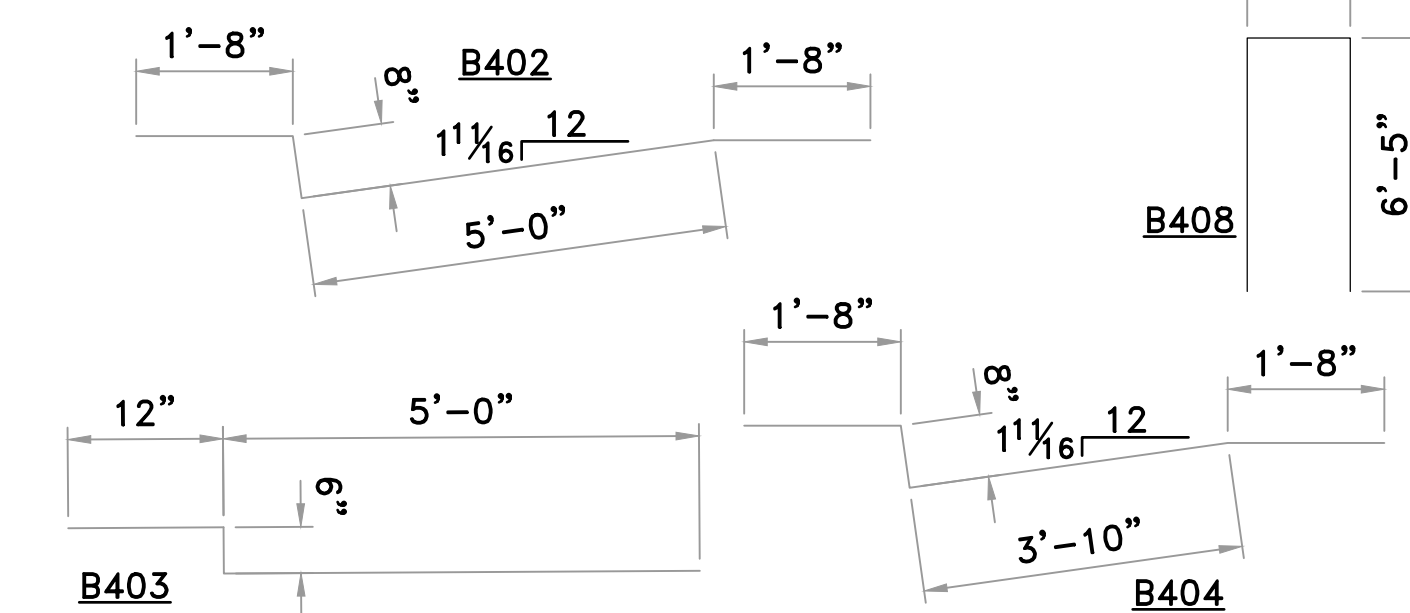
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 3,500$  PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

BAR LIST - BENT 1

MARK	NO.	REQ'D.	LENGTH	P.D.
B401	22		2'-10"	STR.
B402	2		8'-10"	2"
B403	2		6'-4"	2"
B404	4		7'-8"	2"
B405	2		19'-3"	STR.
B406	17		17'-6"	2"
B407	16		17'-10"	2"
B408	9		14'-10"	2"
B601	34		19'-3"	STR.

DIMENSIONS ARE OUT TO OUT OF BARS.

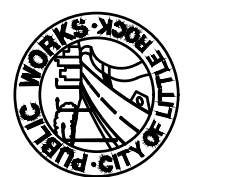


SECTION A-A  
3/4" = 1'-0"

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION

BENT 3 DETAILS



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



90% COMPLETE

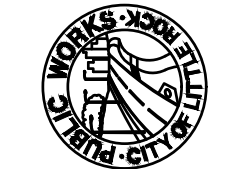
DRAWN BY  
KDH  
DESIGNED  
JPC  
CHECKED  
SFH  
DATE  
06/2019  
SCALE  
AS NOTED

PROJECT NO.  
CLR #7-17-ST-357

SHEET NO.  
S10

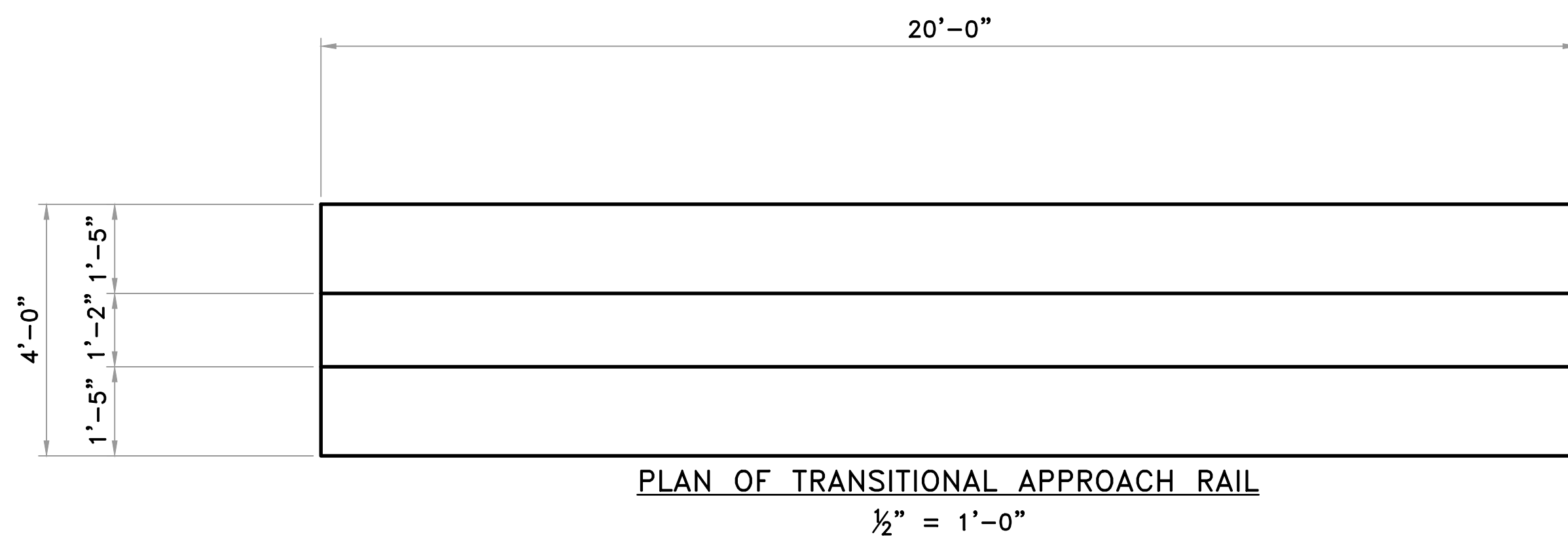
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
TRANSITIONAL APPROACH RAIL

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

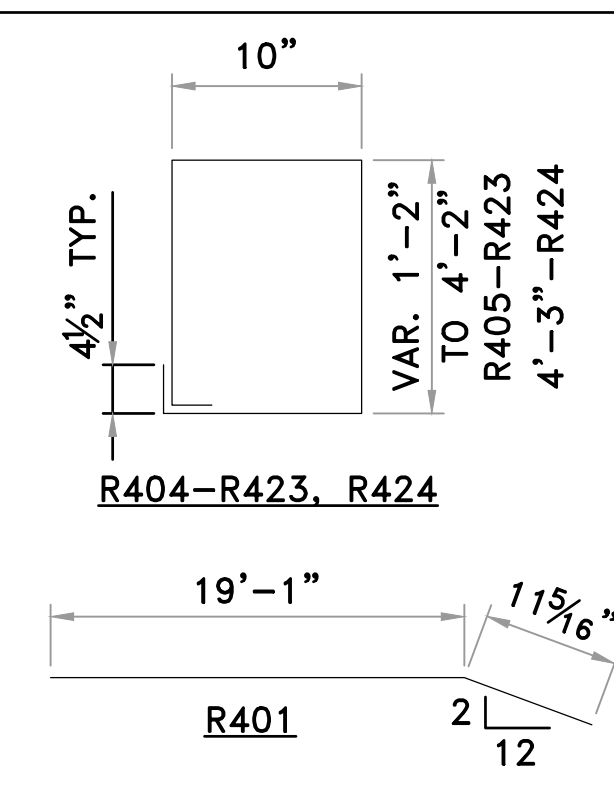
90% COMPLETE

DRAWN BY  
 KDH  
 DESIGNED  
 JPC  
 CHECKED  
 SFH  
 DATE  
 06/2019  
 SCALE  
 AS NOTED  
 PROJECT NO.  
 CLR #7-17-ST-357  
 SHEET NO.  
**S11**



**BAR LIST - ONE TRANSITIONAL RAIL**

MARK	NO. REQ'D.	LENGTH	P.D.
R401	2	20'-1"	STR.
R402	2	7'-6"	STR.
R403	2	13'-8"	STR.
R404	2	19'-8"	STR.
R405-R423	1 EACH	4'-4" TO 10'-4"	2"
R424	1	10'-6"	2"
F401	8	19'-8"	STR.
F402	40	3'-8"	STR.



**GENERAL NOTES**

TRANSITIONAL APPROACH RAILING SHALL BE PLACED AT LOCATIONS SHOWN IN THE PLANS.

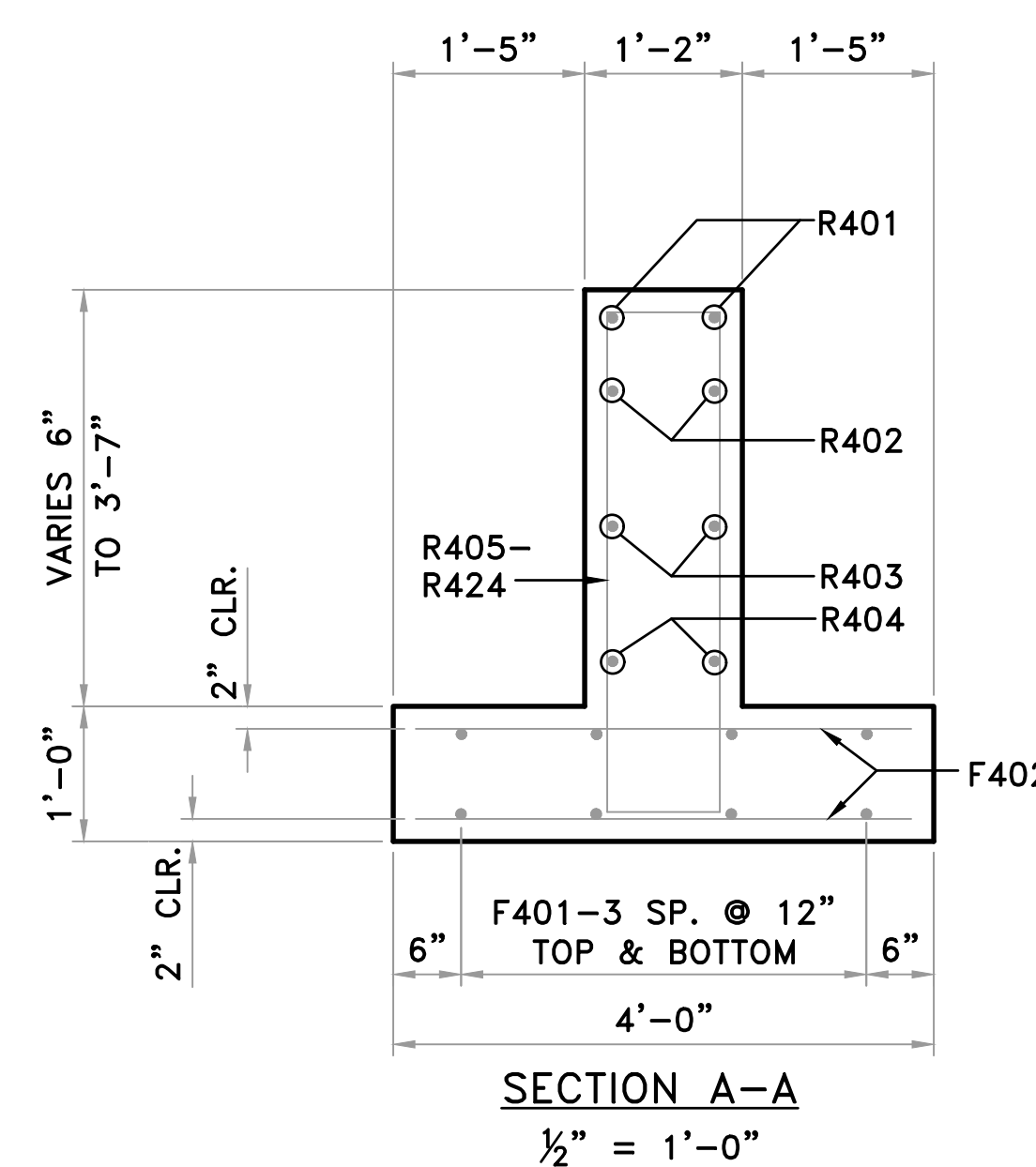
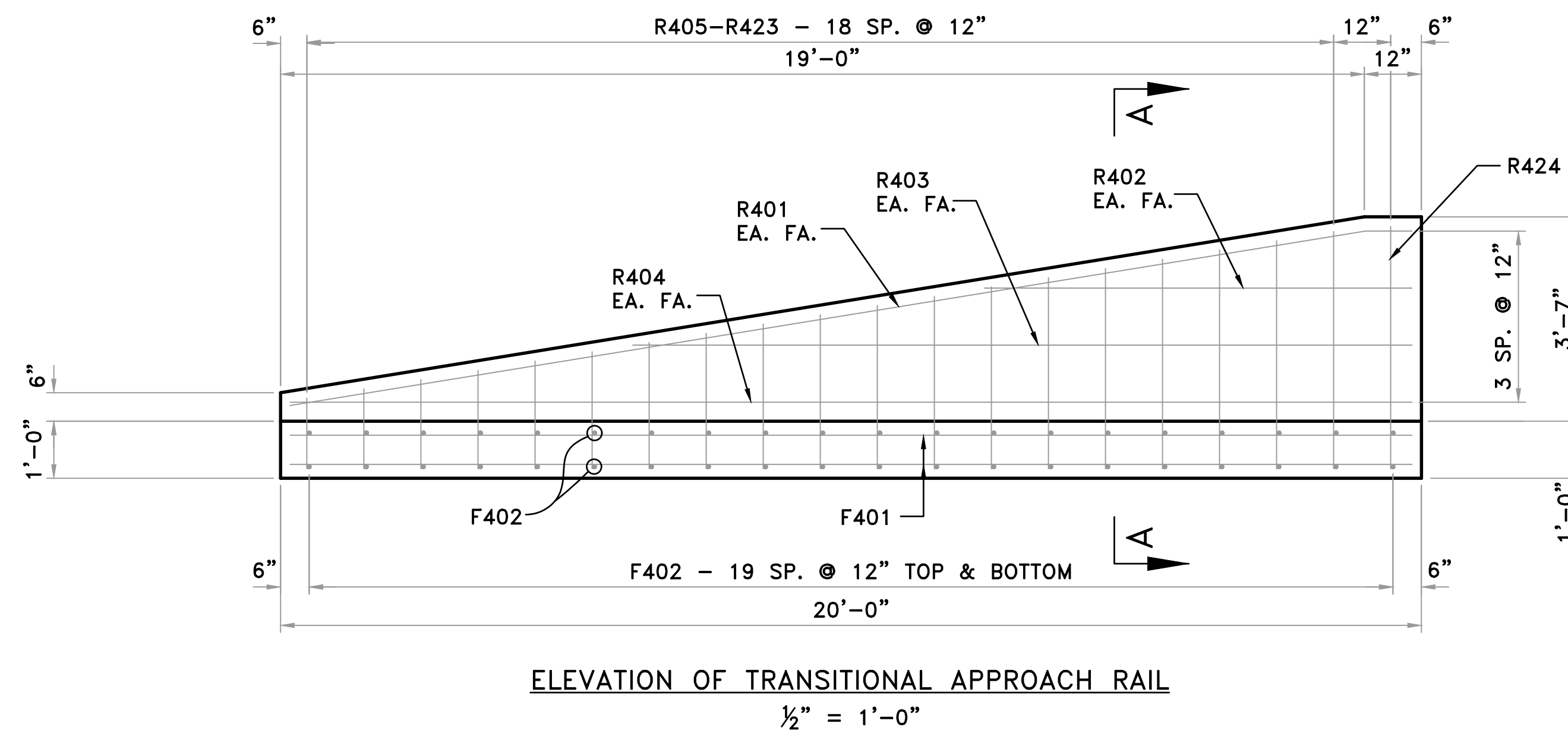
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f'_c = 3,500$  PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

TRANSITIONAL APPROACH RAILING SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR "TRANSITIONAL APPROACH RAILING". SEE SECTION 806 FOR ADDITIONAL INFORMATION.

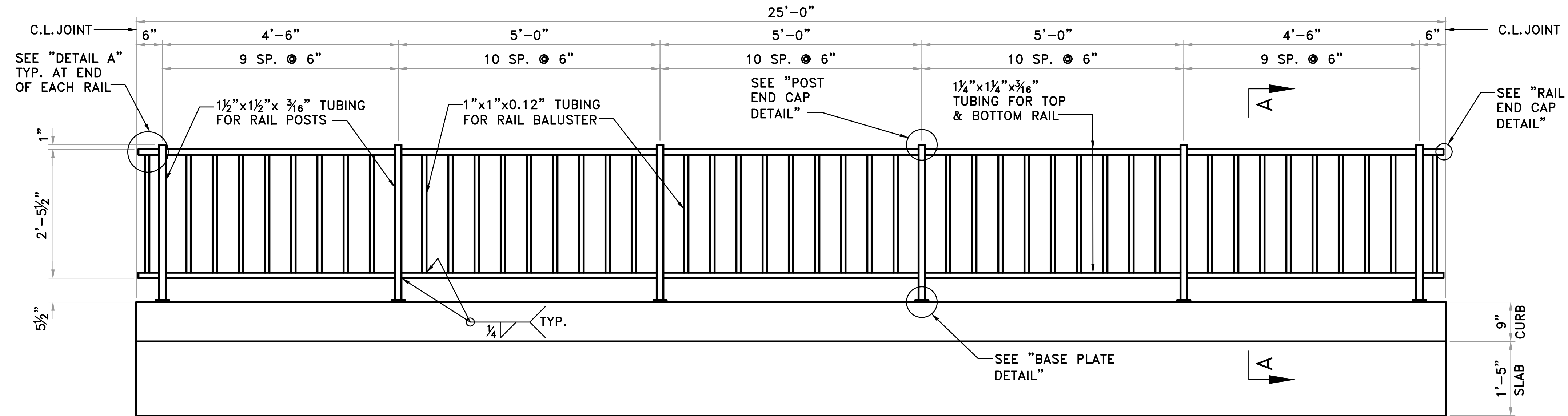
**FOR INFORMATION ONLY  
SCHEDULE OF QUANTITIES PER RAIL UNIT**

CLASS "S" CONCRETE	REINFORCING STEEL (GRADE 60)	CLASS 1 PROTECTIVE SURFACE TREATMENT
4.79 CU. YDS.	385 LBS.	0.2 GAL

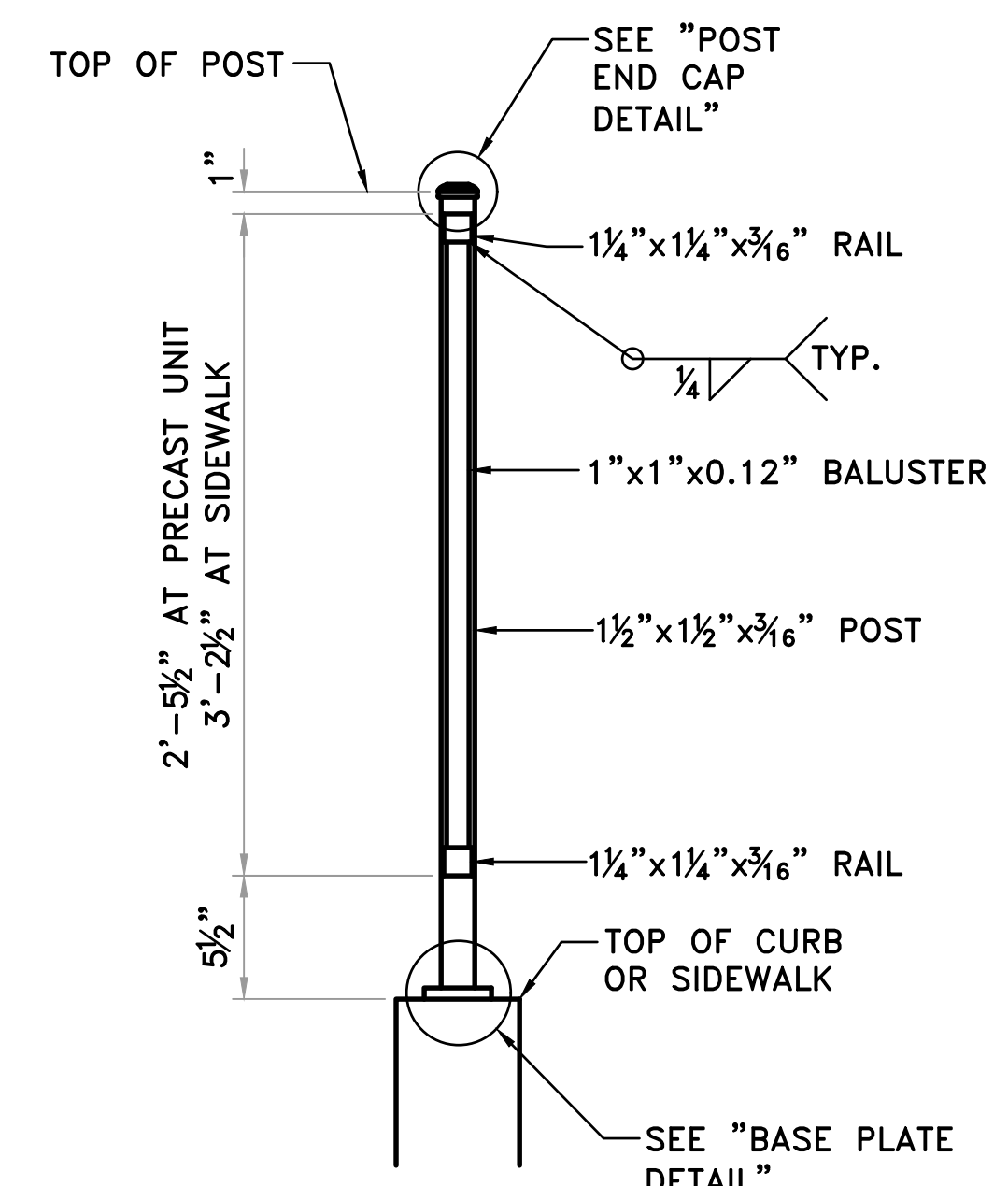




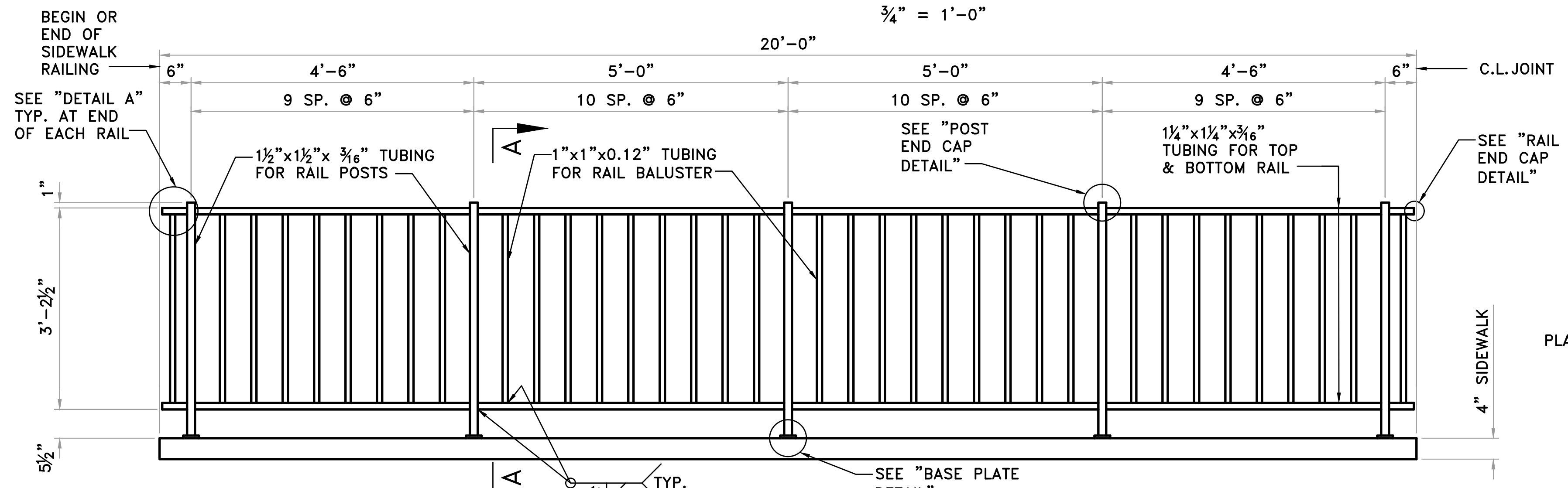
REVISIONS	DATE



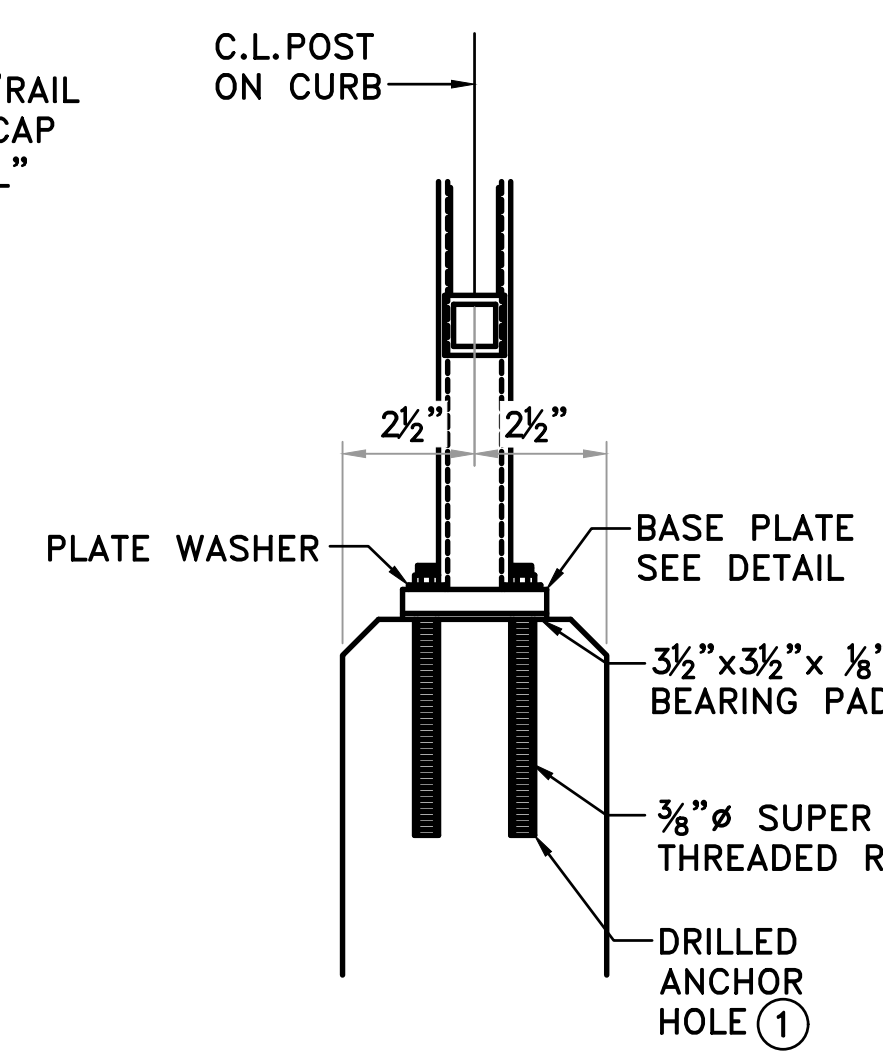
DETAILS OF HANDRAIL ON PRECAST UNIT  
3/4" = 1'-0"



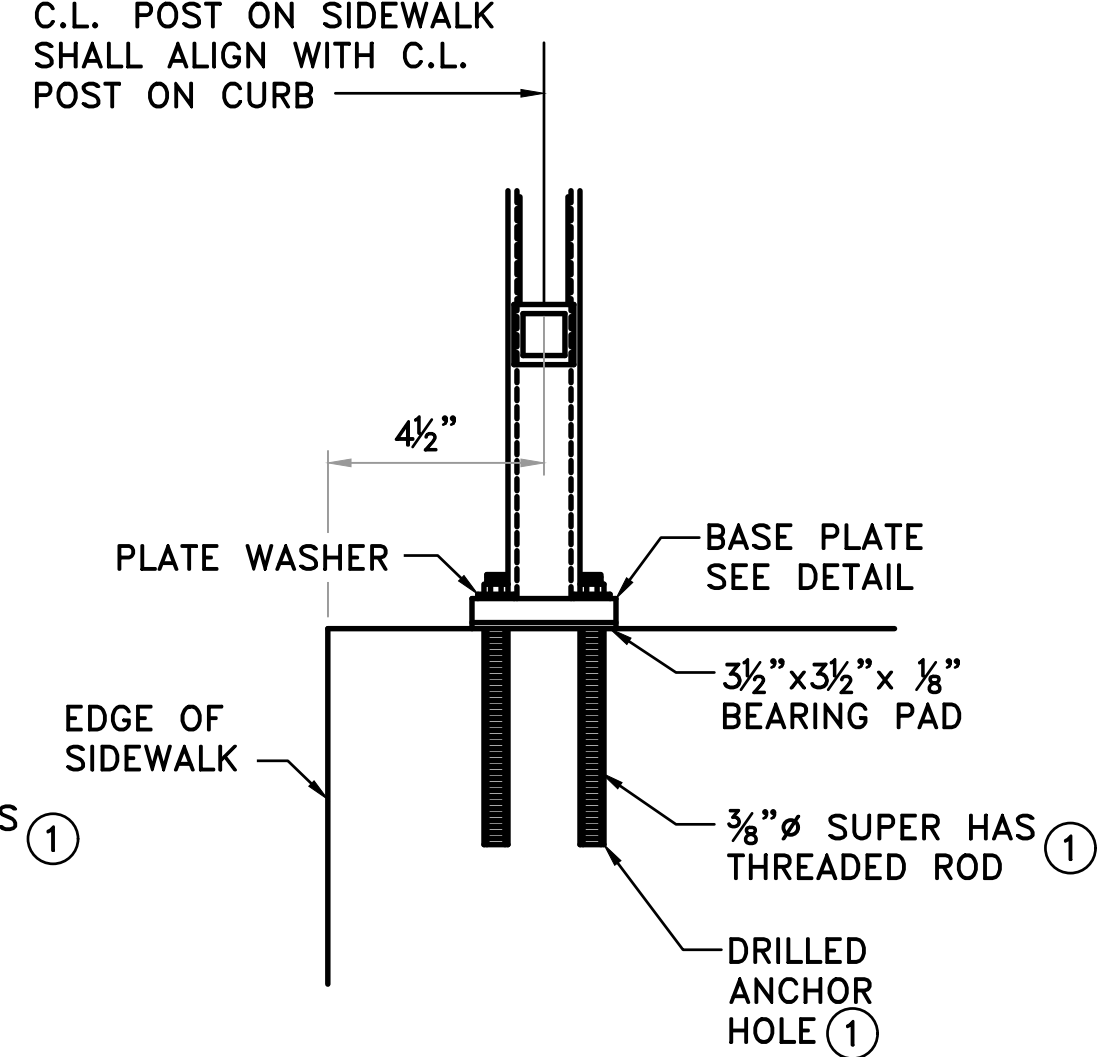
SECTION A-A  
1/2" = 1'-0"



DETAILS OF HANDRAIL ON SIDEWALK  
3/4" = 1'-0"



POST ANCHOR SYSTEM AT CURB  
3" = 1'-0"



POST ANCHOR SYSTEM AT SIDEWALK  
3" = 1'-0"

① HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 1/2" EMBEDMENT OR AN APPROVED EQUAL.

THE HILTI EPOXY ADHESIVE ANCHOR SYSTEM (OR APPROVED EQUAL) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**MATERIALS FOR HANDRAIL**  
STRUCTURAL TUBING: ASTM A500-GRADE B OR ASTM A709, GR. 36.

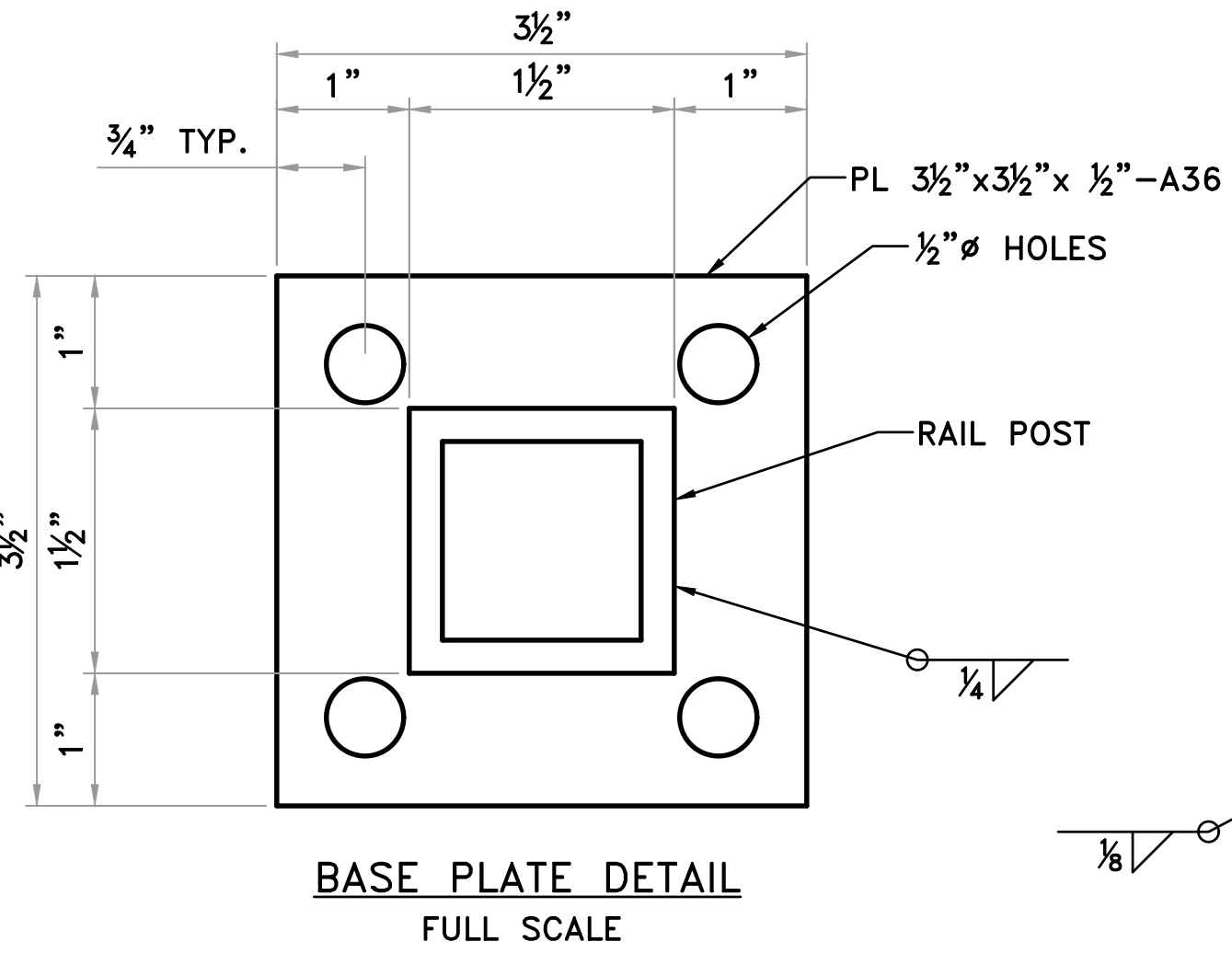
END CAPS AND BASE PLATE: ASTM A709, GR. 36.

THREADED RODS SHALL BE STAINLESS STEEL OR HIGH STRENGTH STEEL. STAINLESS STEEL THREADED RODS SHALL CONFORM TO ASTM A193 OR A320-GRADE B8 WITH A MINIMUM YIELD STRENGTH OF 80,000 PSI. HIGH STRENGTH STEEL THREADED RODS SHALL CONFORM TO AASHTO M164 OR A354-GRADE BC, GALVANIZED IN ACCORDANCE WITH ASTM A153.

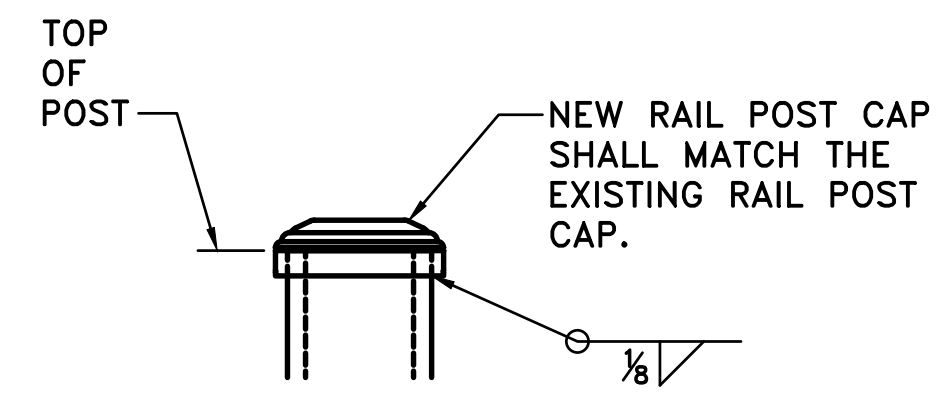
NUTS SHALL CONFORM TO ASTM A194-GRADE 8 (STAINLESS STEEL) OR AASHTO M164 GALVANIZED IN ACCORDANCE WITH AASHTO M232, OR OF STAINLESS STEEL CONFORMING TO ASTM A276 OR A167-TYPE 302.

HANDRAIL, INCLUDING POSTS AND FASTENERS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT BID FOR "HANDRAIL".

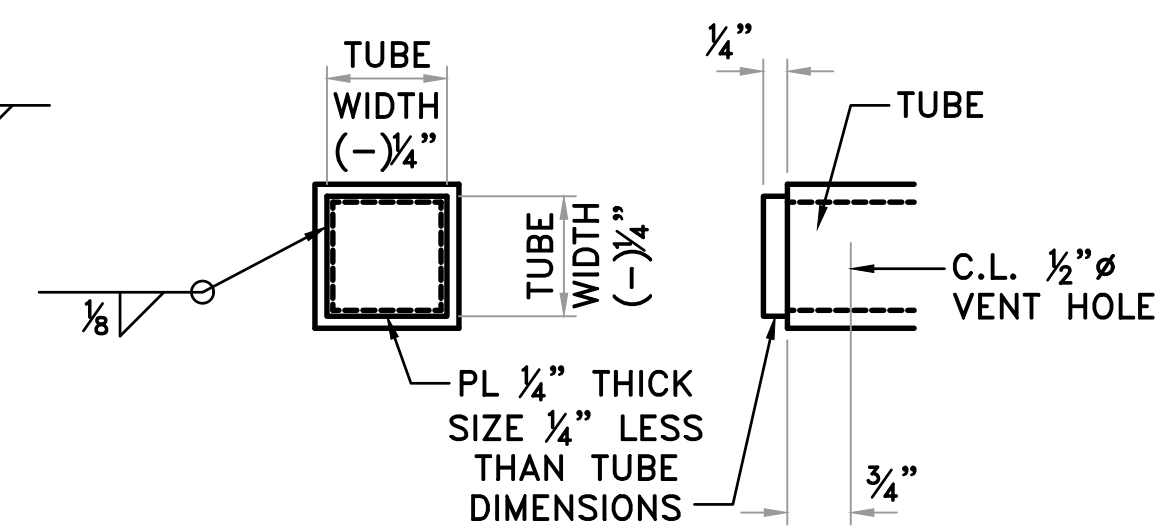
SHOP DRAWINGS SHOWING DETAILS OF RAILING SHALL BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.



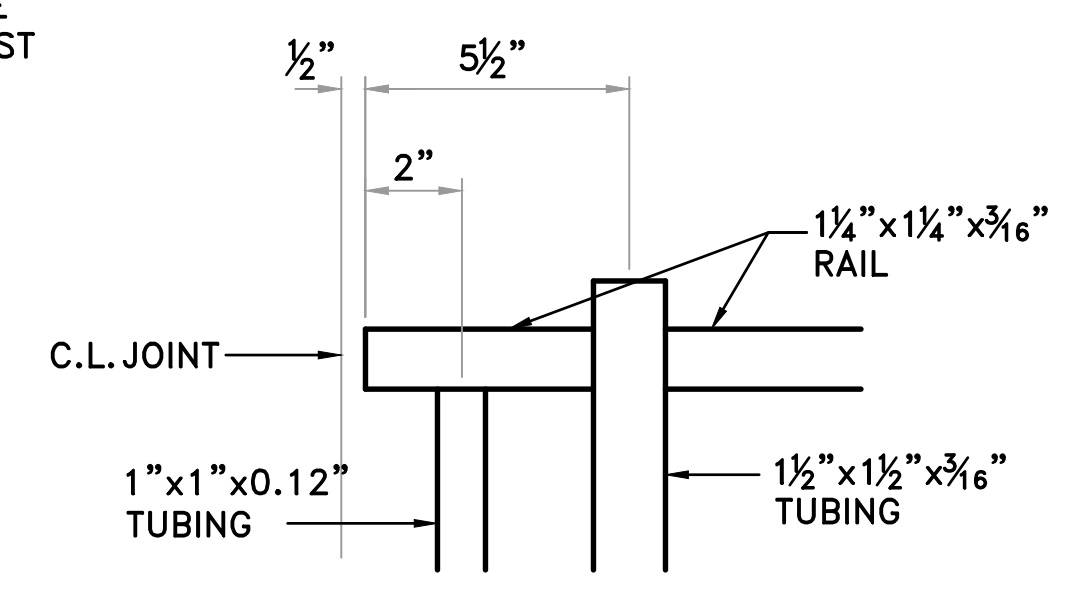
BASE PLATE DETAIL  
FULL SCALE



POST END CAP DETAIL  
6" = 1'-0"



RAIL END CAP DETAIL  
6" = 1'-0"



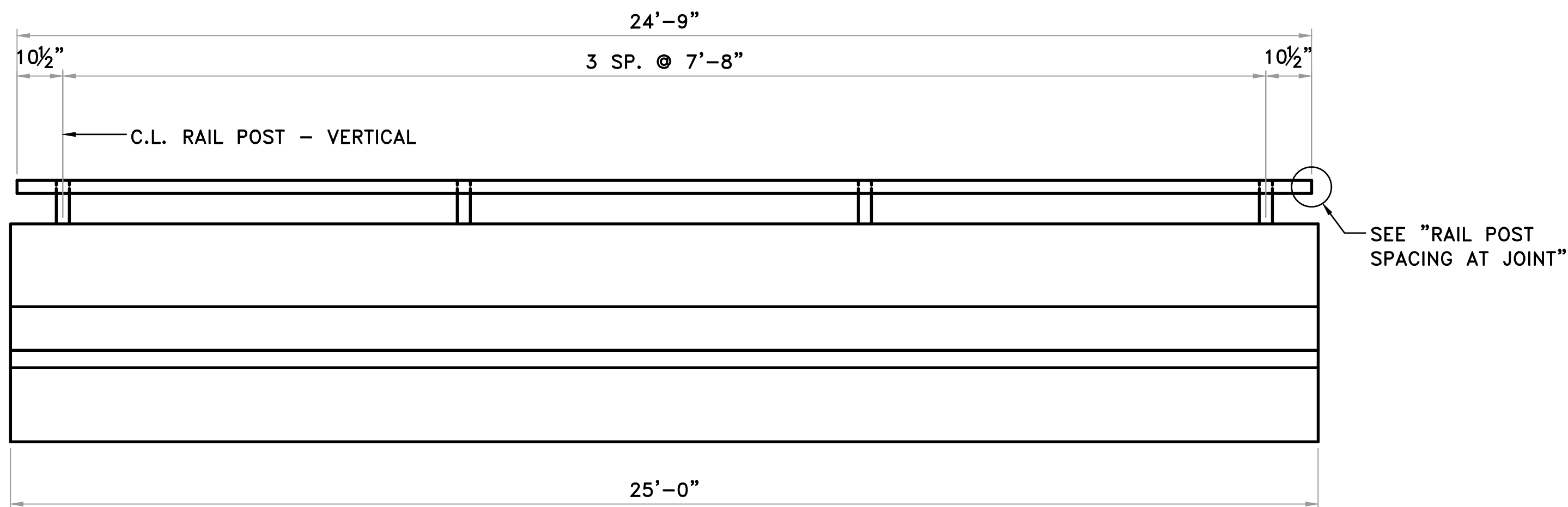
DETAIL A  
3" = 1'-0"  
TYP. AT THE END OF EACH RAIL AS SHOWN.

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
HANDRAIL DETAILS

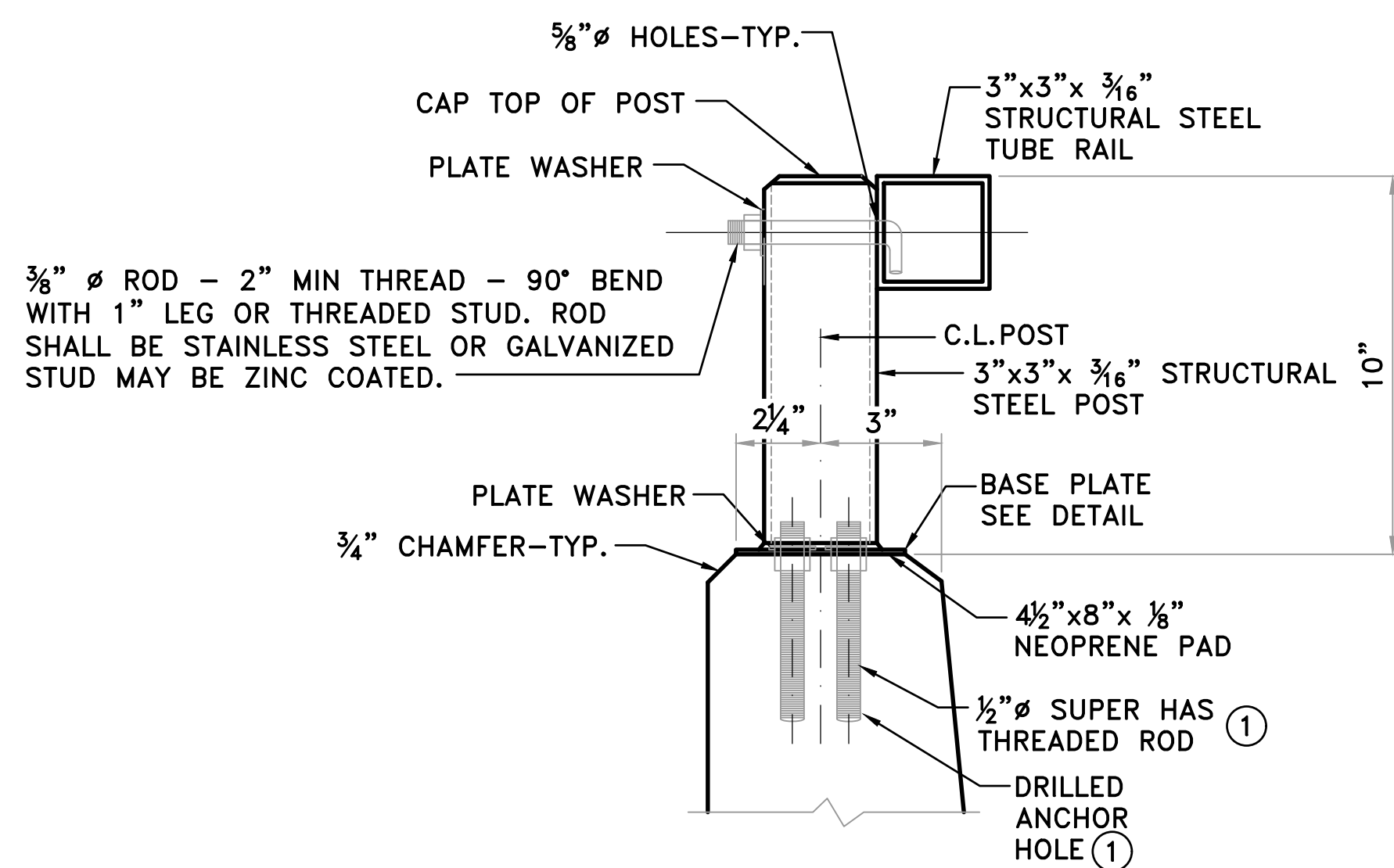
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201

90% COMPLETE

DRAWN BY  
KDH  
DESIGNED  
JPC  
CHECKED  
SFH  
DATE  
10-2019  
SCALE  
AS NOTED  
PROJECT NO.  
CLR #7-17-ST-357  
SHEET NO.  
S12



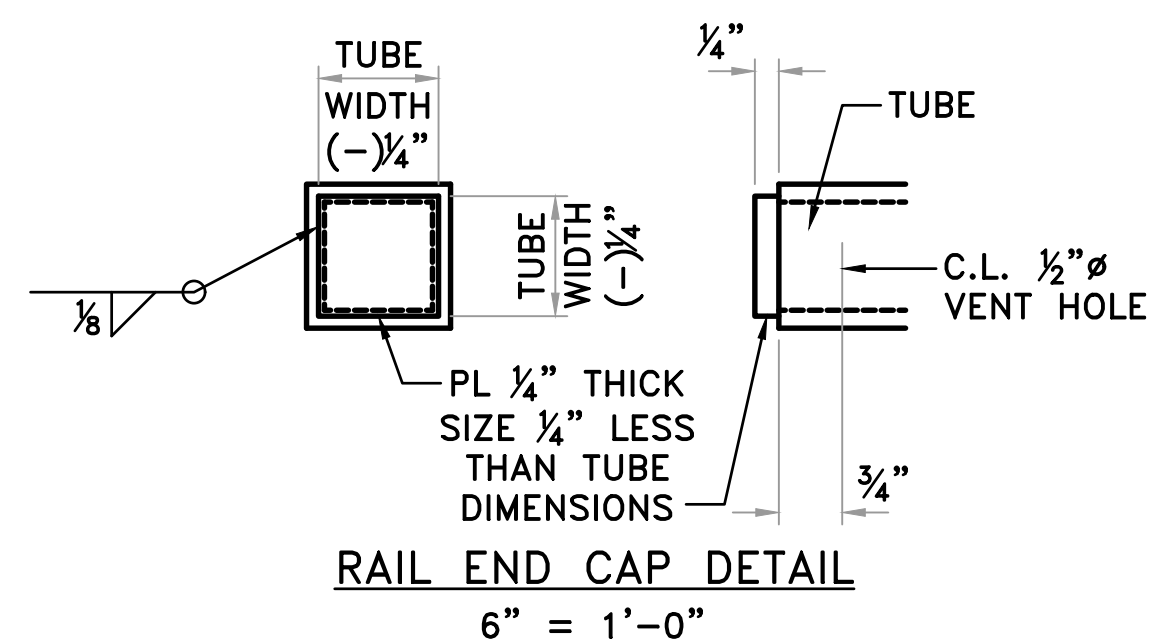
**RAIL POST SPACING DETAIL**  
HORIZONTAL DIMENSIONS ARE ALONG FACE OF RAIL  
1/2" = 1'-0"



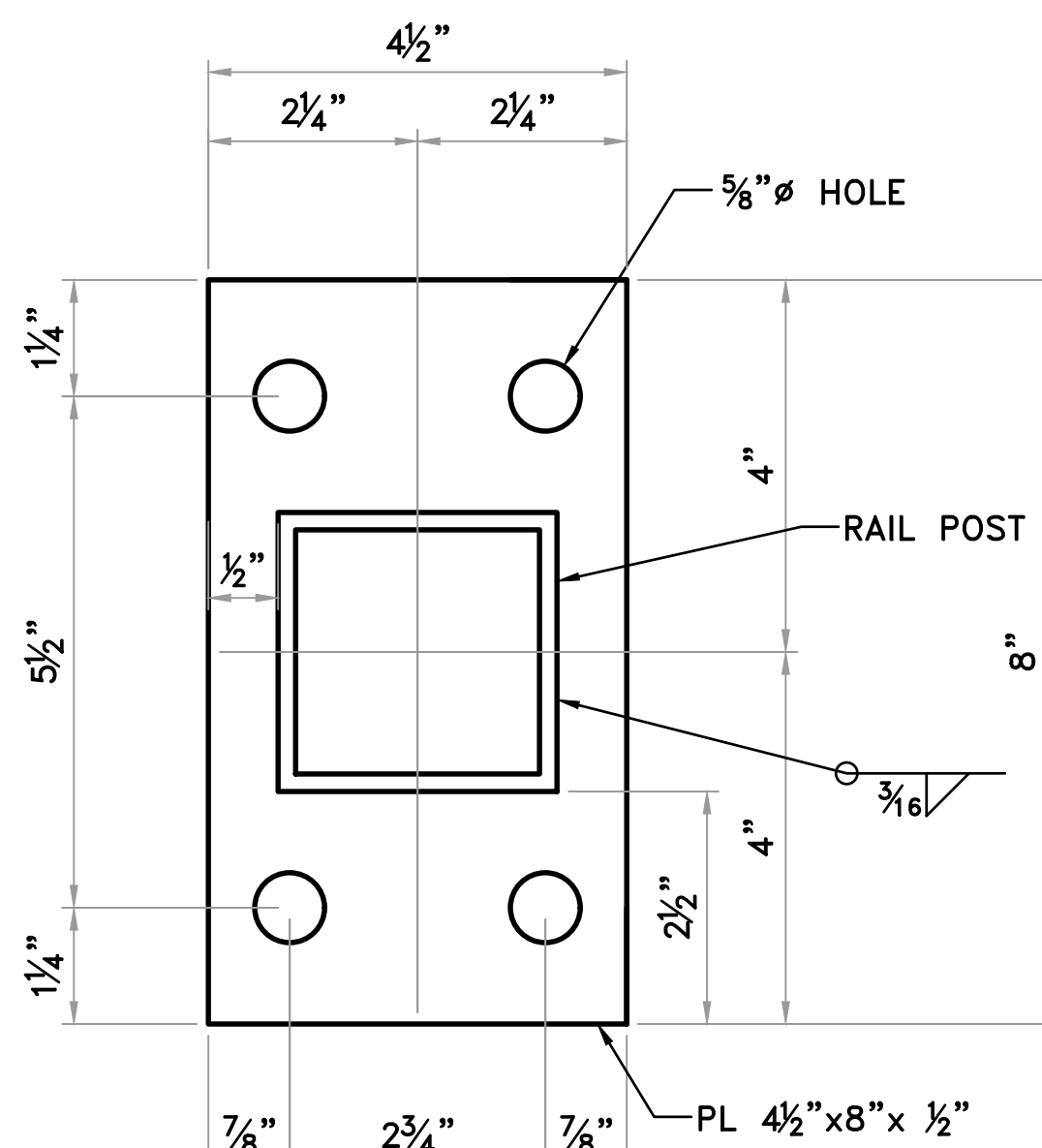
**DETAILS OF POST ANCHOR SYSTEM**  
3" = 1'-0"

① HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 1/2" EMBEDMENT OR AN APPROVED EQUAL.

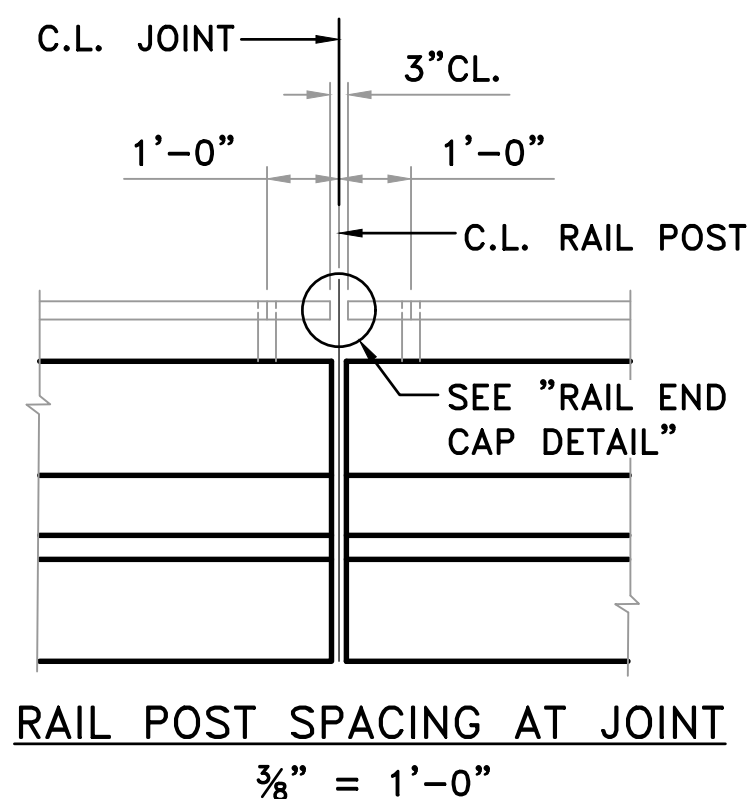
THE HILTI EPOXY ADHESIVE ANCHOR SYSTEM (OR APPROVED EQUAL) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



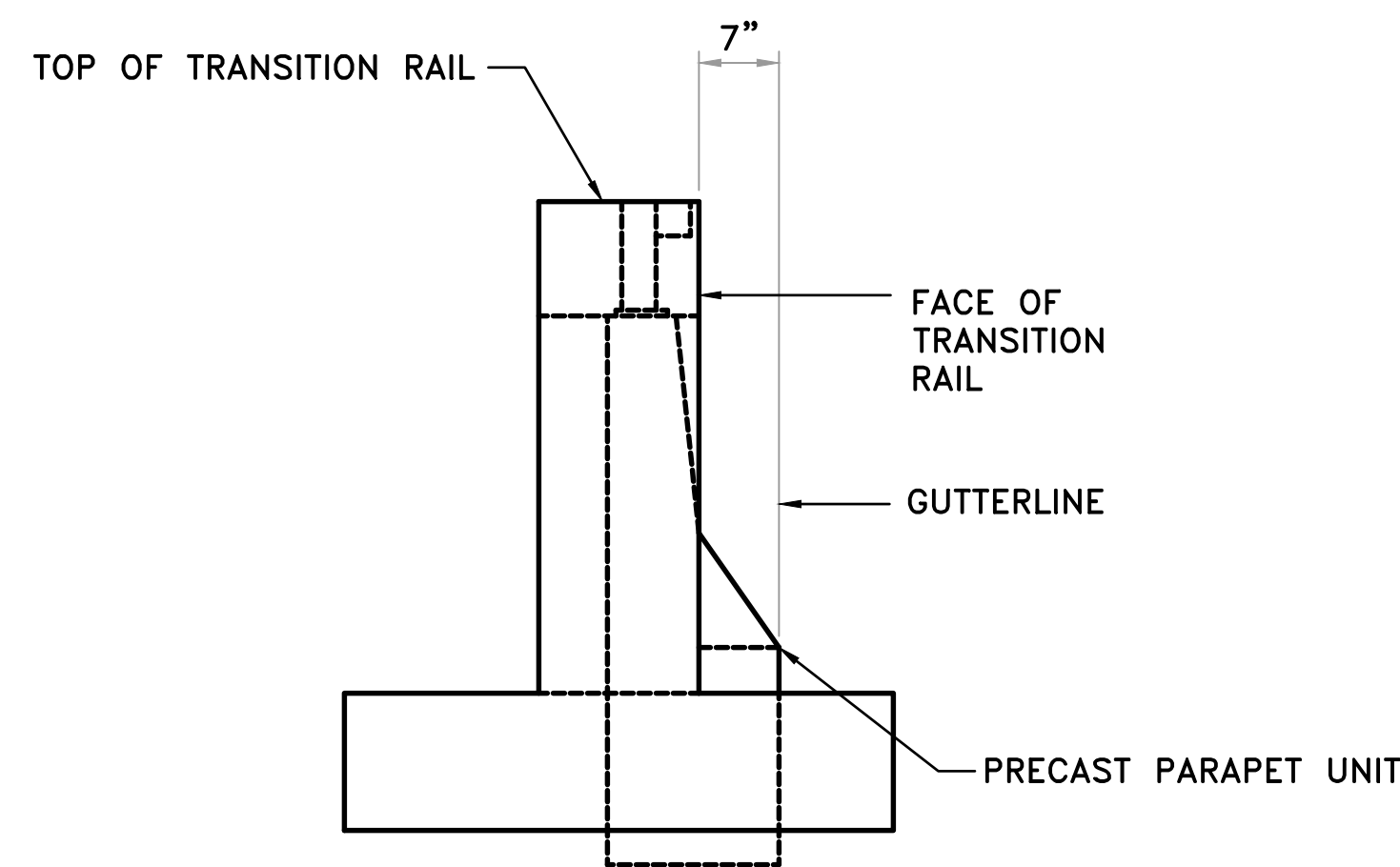
**RAIL END CAP DETAIL**  
6" = 1'-0"



**BASE PLATE DETAIL**  
6" = 1'-0"



**RAIL POST SPACING AT JOINT**  
3/8" = 1'-0"



**SKETCH SHOWING ALIGNMENT OF TRANSITION RAIL TO PARAPET UNIT**  
3/4" = 1'-0"

**NOTES FOR BRIDGE RAILING:**

RAIL LAYOUT SHALL CONFORM TO VERTICAL AND HORIZONTAL ALIGNMENT OF BRIDGE. ALL POSTS SHALL BE VERTICAL.

BASE PLATES SHALL NOT BE PLACED UPON AREAS THAT ARE IMPROPERLY FINISHED, DEFORMED OR IRREGULAR.

SHOP DRAWINGS SHOWING DETAILS OF RAILING SHALL BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

**MATERIALS FOR BRIDGE RAILING:**

TUBING, POSTS, AND ACCESSORIES: ASTM A709, GR. 36 OR ASTM A500-GRADE B.

RAILING END CAPS SHALL CONFORM TO ASTM A709, GRADE 36.

PAINTING: ALL STRUCTURAL STEEL, EXCEPT GALVANIZED MEMBERS AND SURFACES IN CONTACT WITH CONCRETE, SHALL BE CLEANED IN ACCORDANCE WITH SUBSECTION 807.84(B) AND PAINTED AS SPECIFIED IN SUBSECTION 807.75. THE COLOR OF THE TYPE H-2 METAL RAIL SHALL BE BLACK AND SHALL MATCH FED. STD. 595B COLOR CHIP NO. 27038.

**HIGH-STRENGTH STEEL:**

NUTS SHALL CONFORM TO ASTM A563, GRADE DH OR AASHTO M 292, GRADE 2H.

WASHERS SHALL CONFORM TO ASTM F436.

PLATE WASHERS SHALL CONFORM TO ASTM A709, GR. 36.

NUTS, WASHERS, PLATE WASHERS, AND SET SCREWS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232, CLASS C OR ASTM B695, CLASS 50.

**STAINLESS STEEL:**

NUTS SHALL CONFORM TO AASHTO M 292, GRADE 8 OR ASTM A563.

WASHERS SHALL CONFORM TO ASTM A240, TYPE 302.

PLATE WASHERS SHALL CONFORM TO ASTM A240, TYPE 302.

THREADS ON BOLTS, SCREWS AND NUTS SHALL CONFORM TO AMERICAN STANDARD COARSE SERIES, CLASS 2 FIT. ASA SPECIFICATION B1.1.

MIXING OF STAINLESS STEEL AND GALVANIZED FASTENERS WILL NOT BE PERMITTED.

METAL BRIDGE RAILING, INCLUDING POSTS, FASTENERS, BASE PLATES, TEMPLATE PLATES, BALUSTERS, ANCHOR BOLTS, NEOPRENE PAD, PAINT, AND REPAIR OF PAINT; FABRICATION AND ERECTION; AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 806 AT THE CONTRACT UNIT PRICE PER LINEAR FOOT BID FOR "METAL BRIDGE RAILING (TYPE H)".

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
TYPE H RAIL DETAILS

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

90% COMPLETE

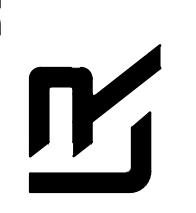
DRAWN BY  
KDH  
DESIGNED  
JPC  
CHECKED  
SFH  
DATE  
10-2019  
SCALE  
AS NOTED  
PROJECT NO.  
CLR #7-17-ST-357  
SHEET NO.  
S13

90% SUBMITTAL

REVISIONS	DATE

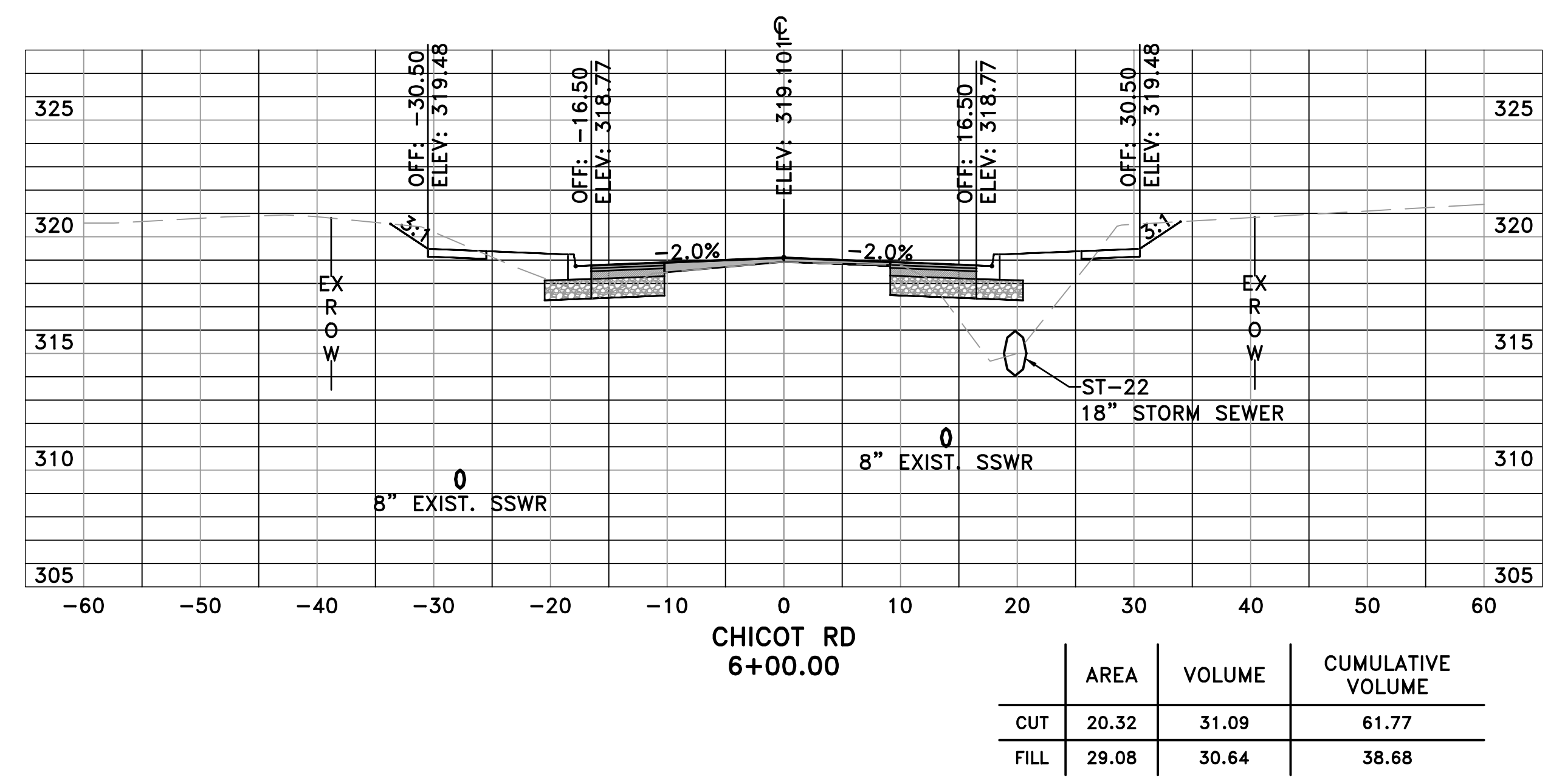
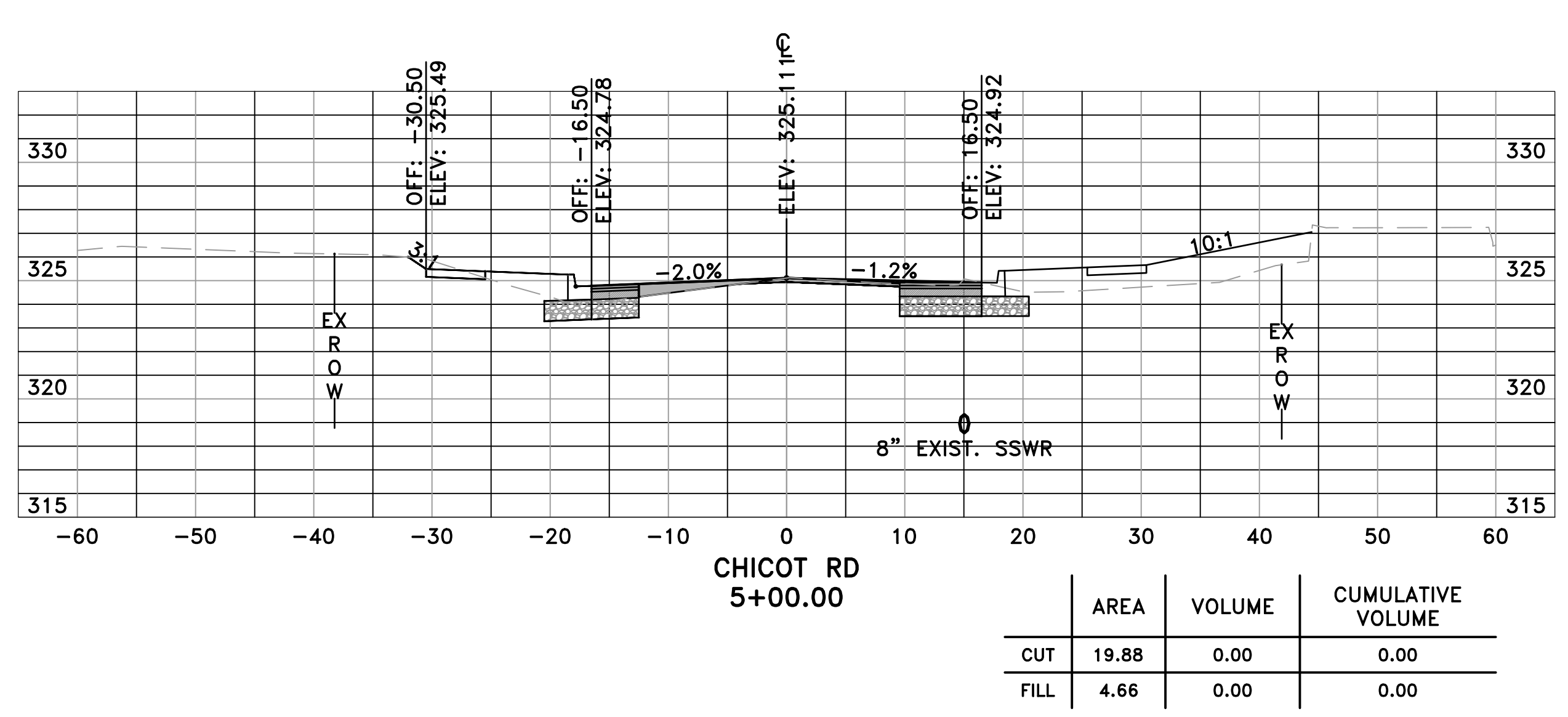
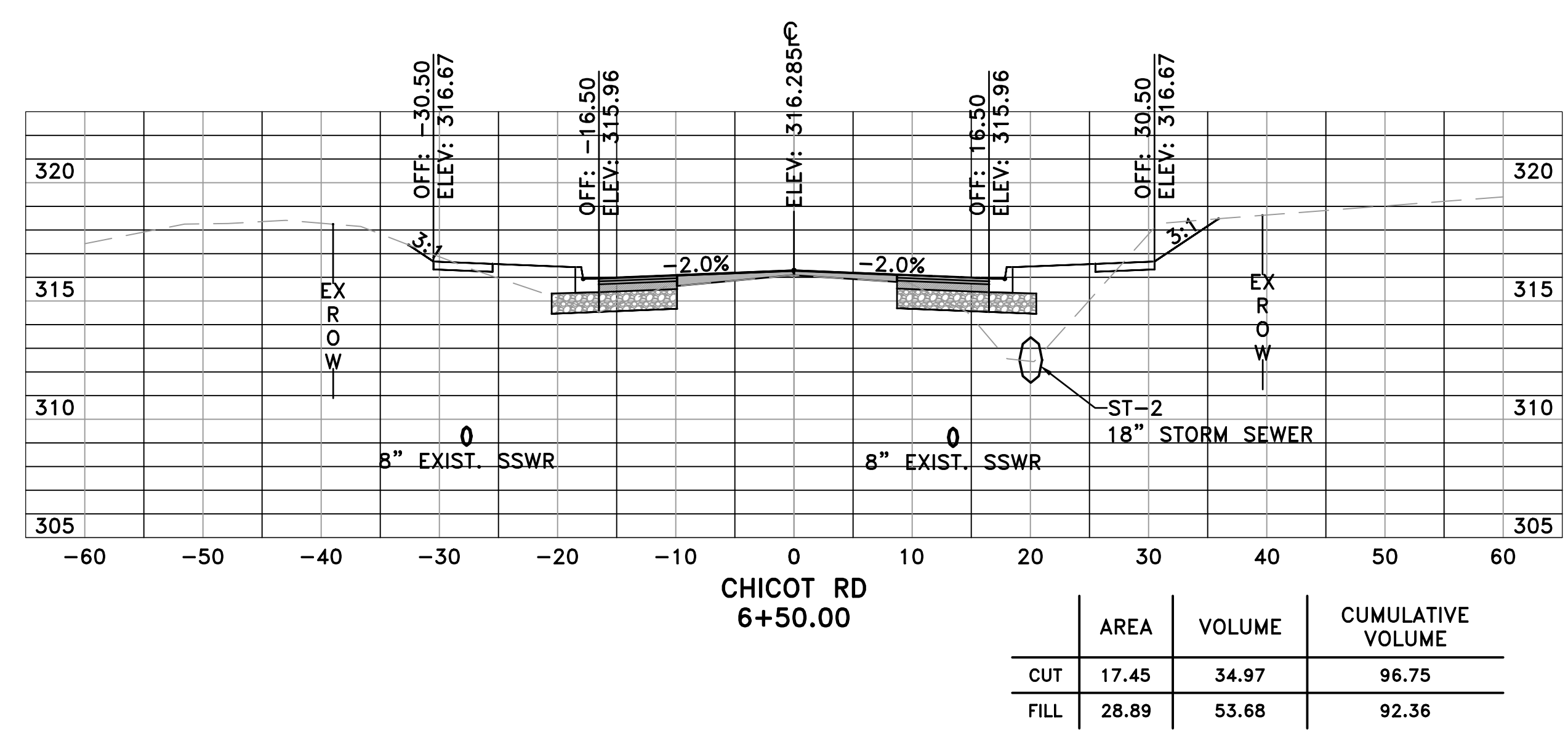
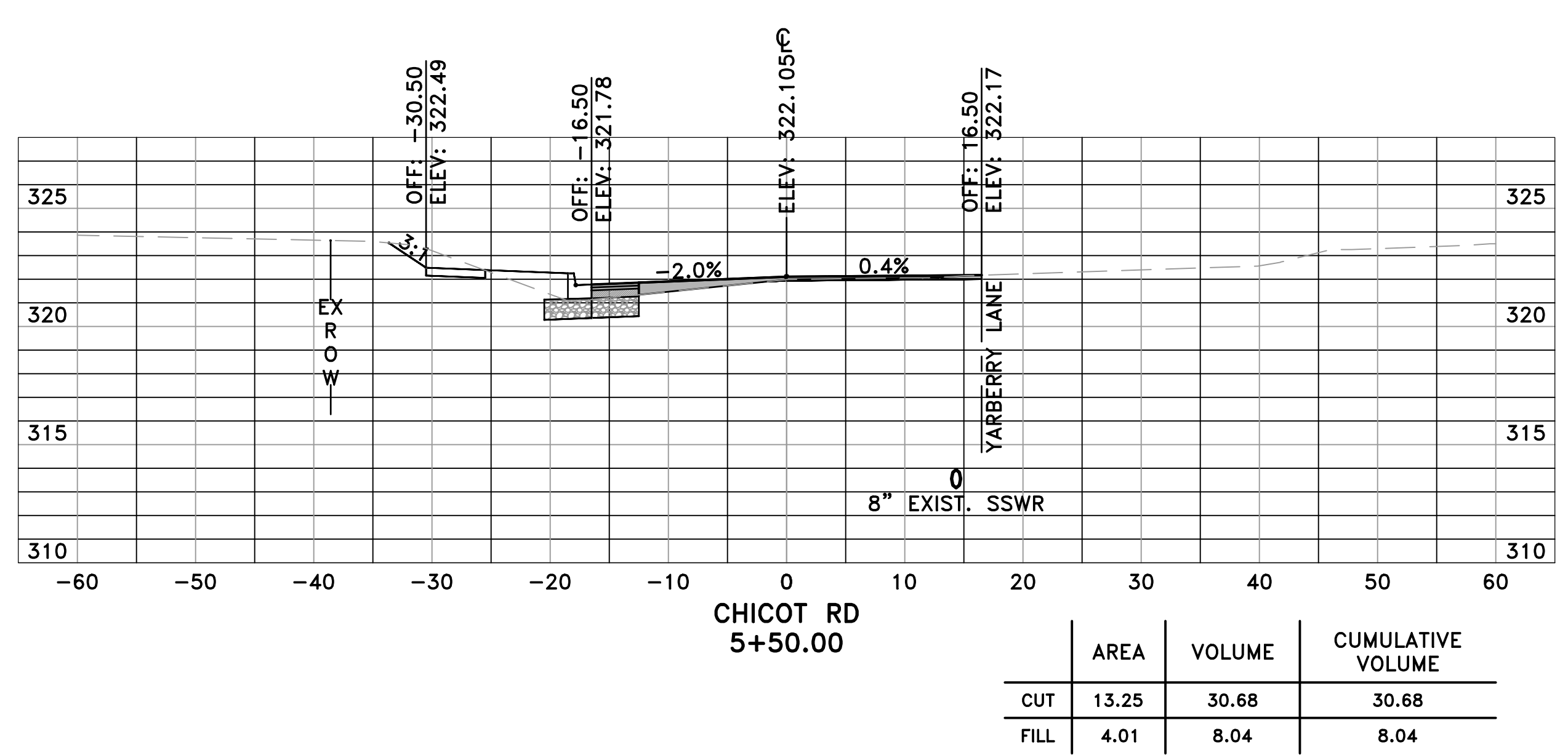
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (1)

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



SEAL

DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 H: 1"=10'  
 V: 1"=5'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X1



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (2)

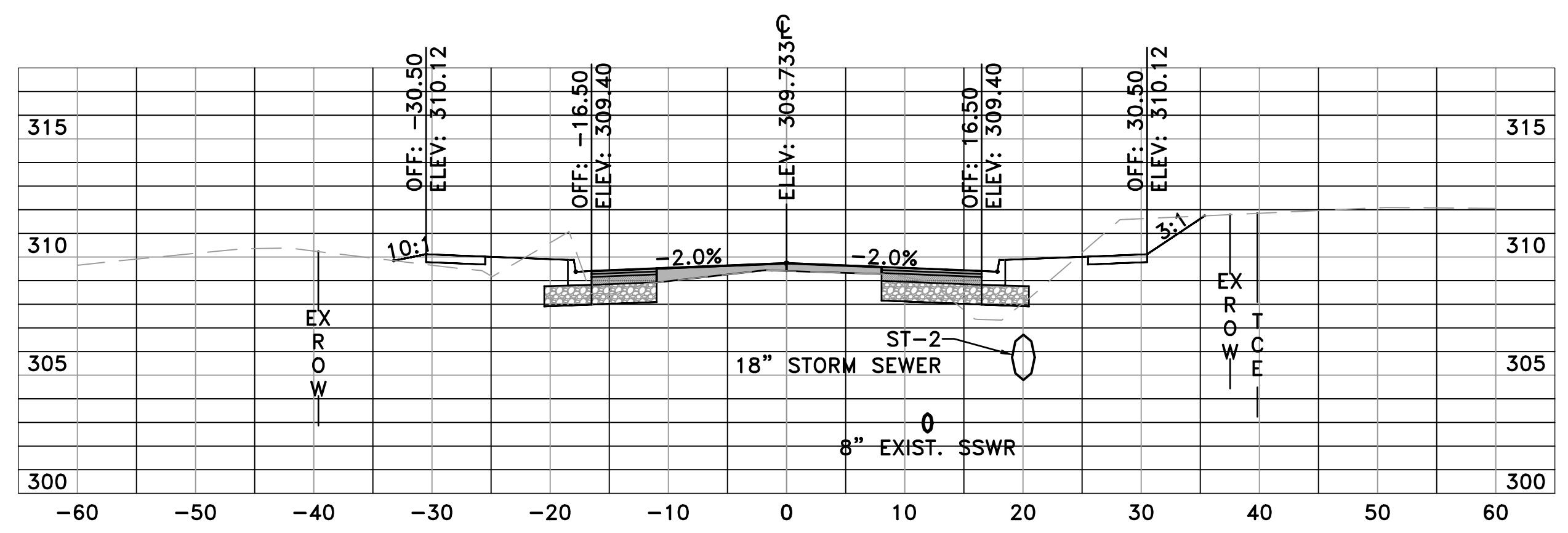
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



SEAL

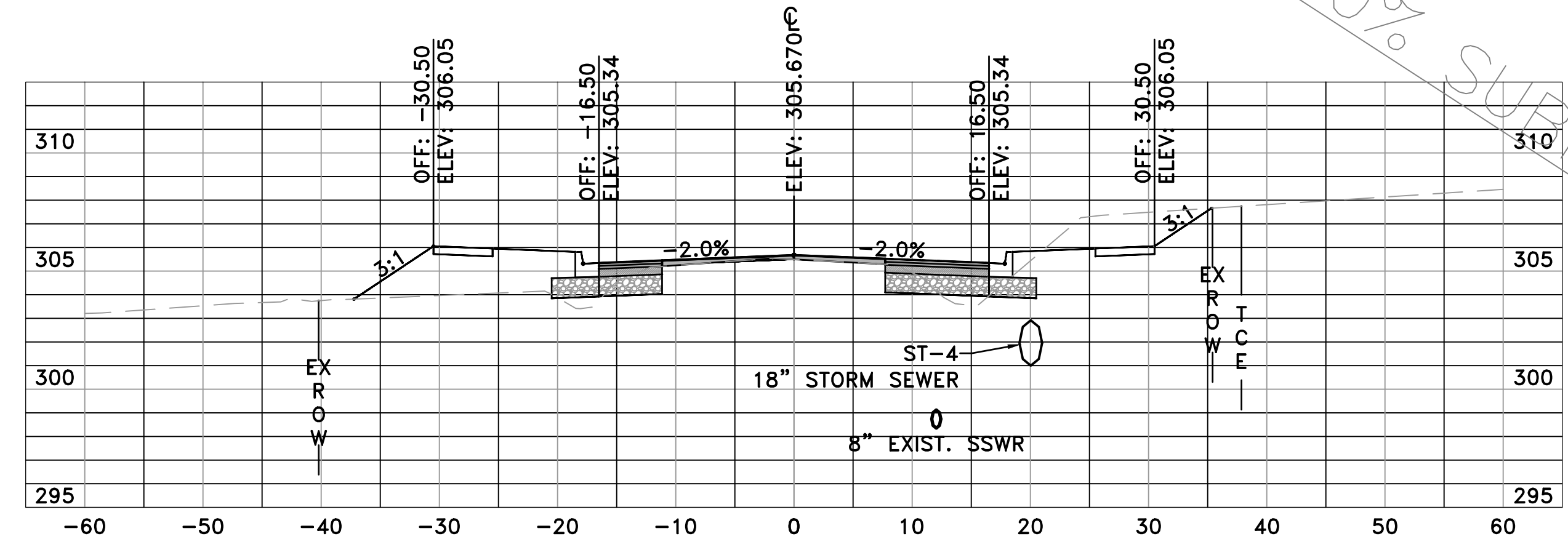
DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
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 DATE  
 11-15-2019  
 SCALE  
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 V: 1"=5'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X2

90% SUBMITTAL



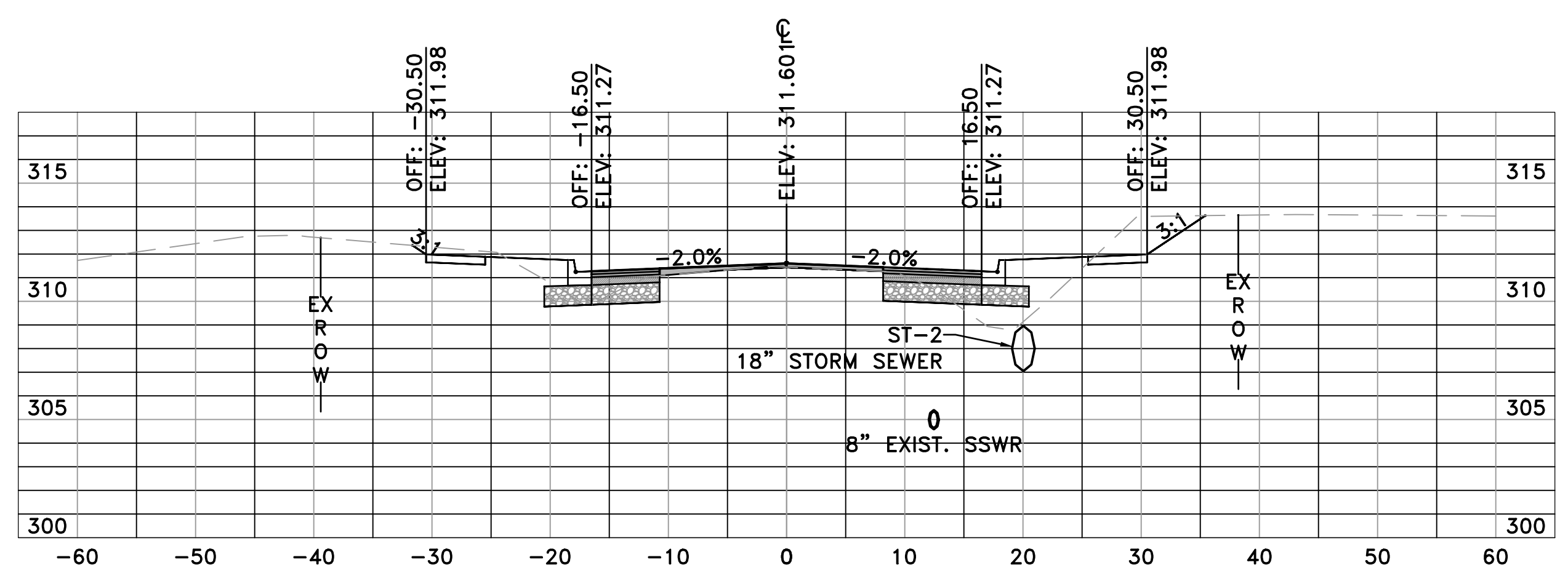
CHICOT RD  
 8+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	29.87	50.23	230.82
FILL	12.70	23.77	192.79



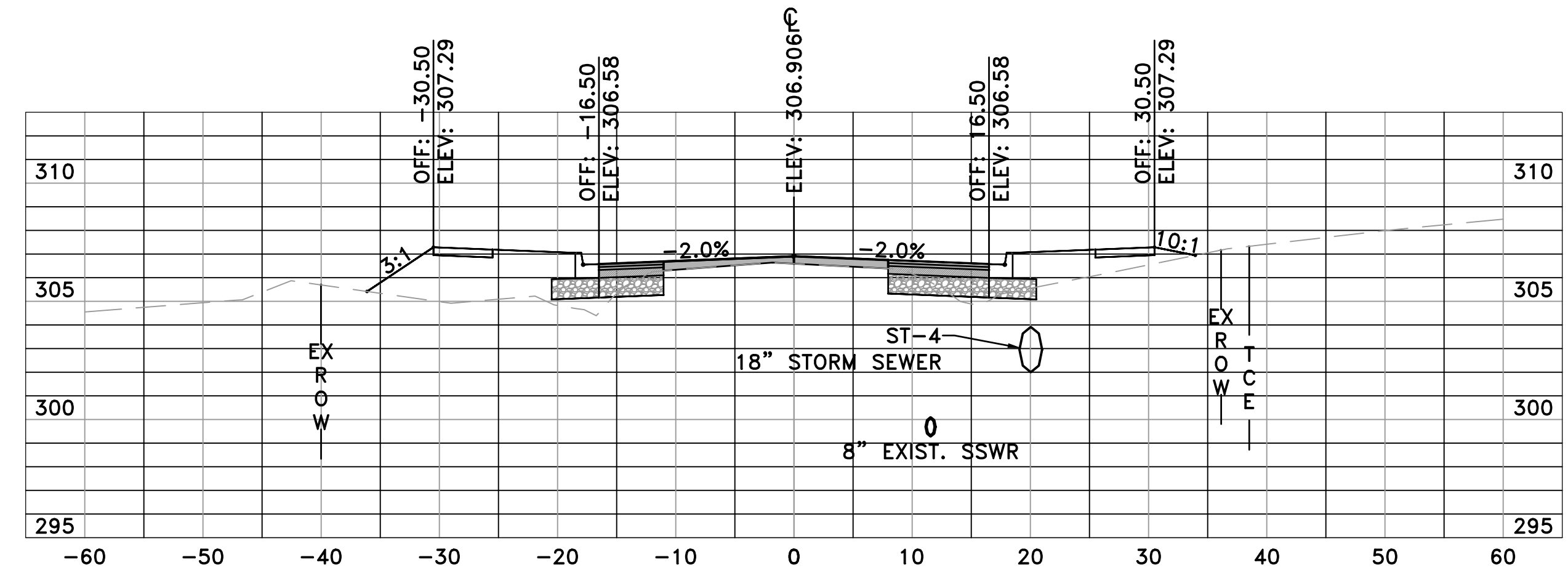
CHICOT RD  
 9+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	27.71	32.75	341.35
FILL	27.27	64.43	345.61



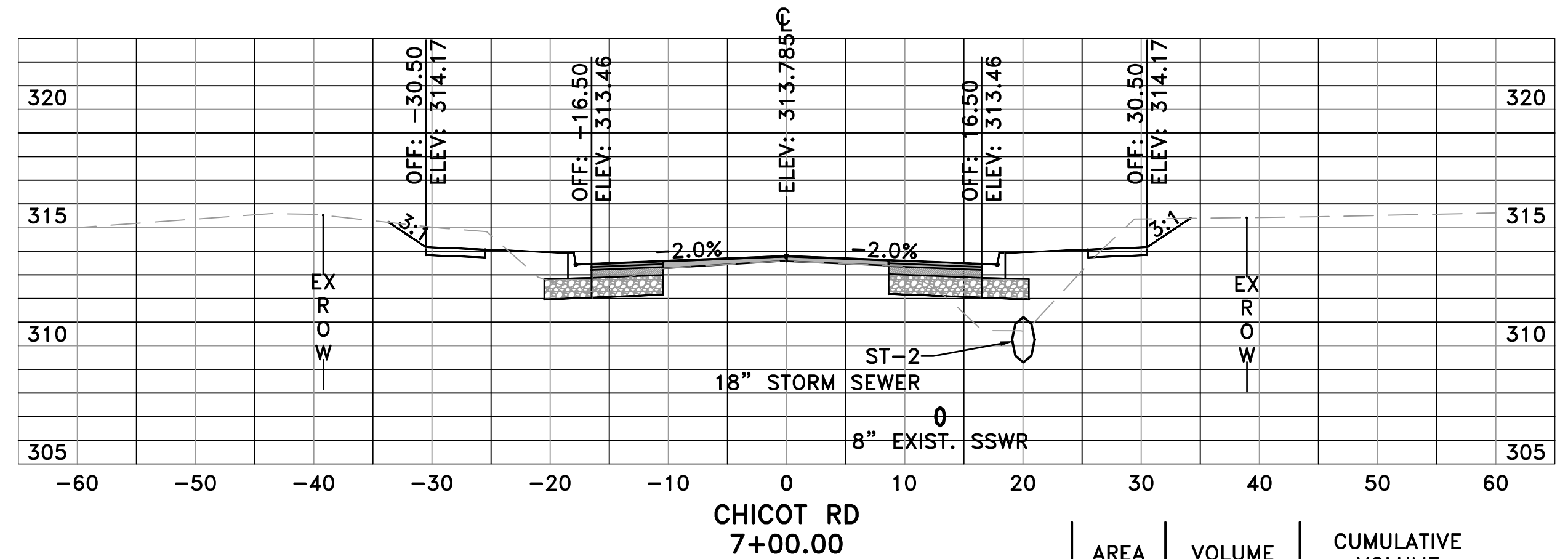
CHICOT RD  
 7+50.00

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CUT	24.38	45.13	180.59
FILL	12.97	30.96	169.02



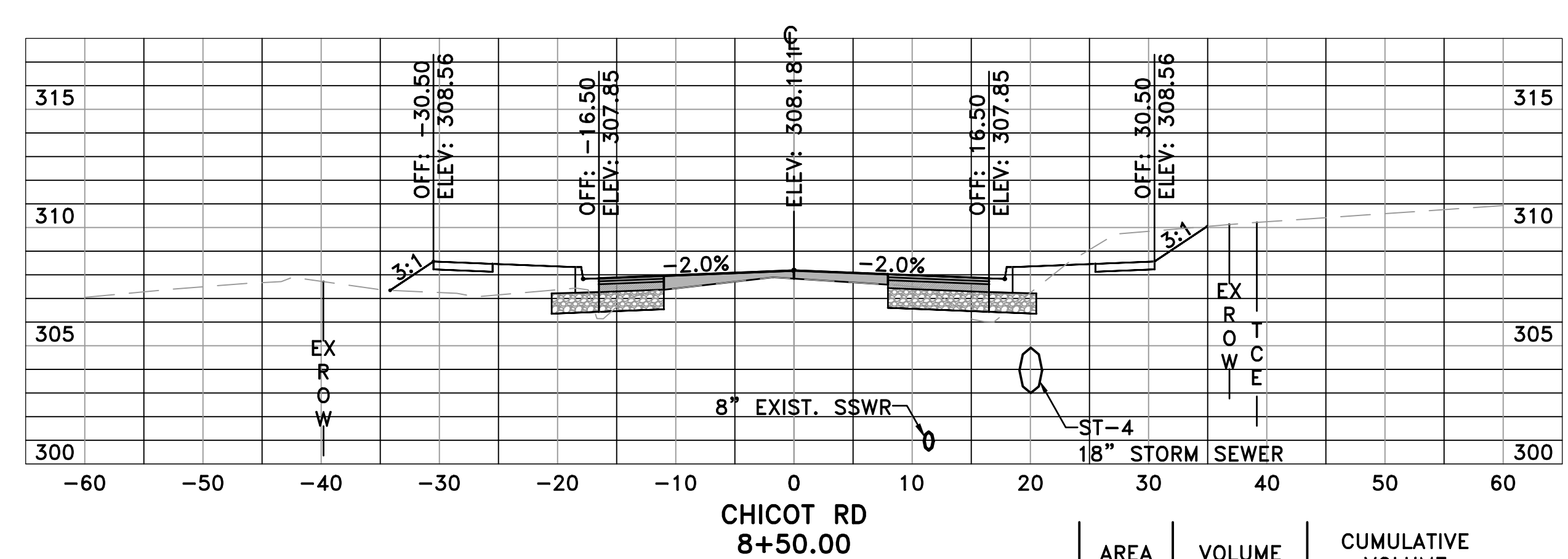
CHICOT RD  
 9+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.66	28.61	308.60
FILL	42.32	57.91	281.18



CHICOT RD  
 7+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	24.36	38.71	135.46
FILL	20.47	45.70	138.06



CHICOT RD  
 8+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	23.24	49.17	279.99
FILL	20.22	30.48	223.27

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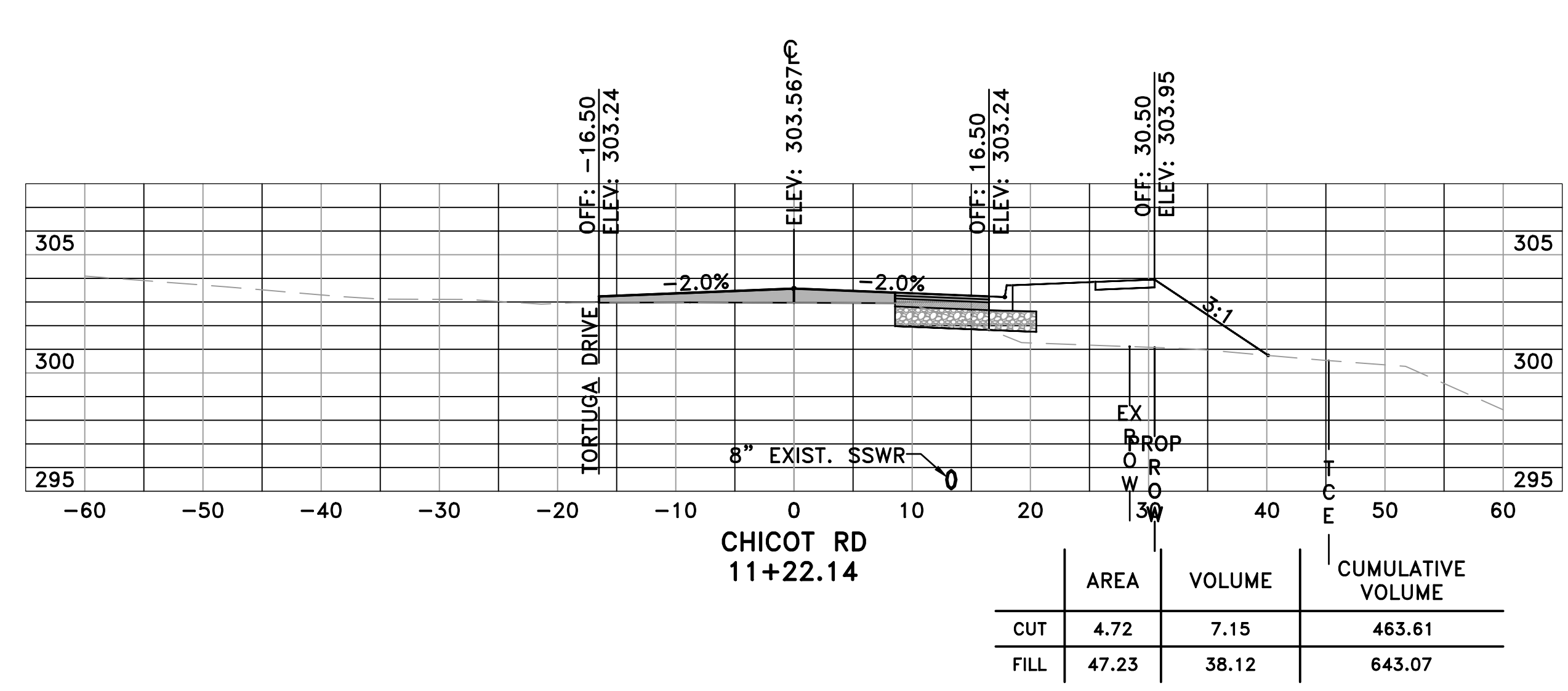
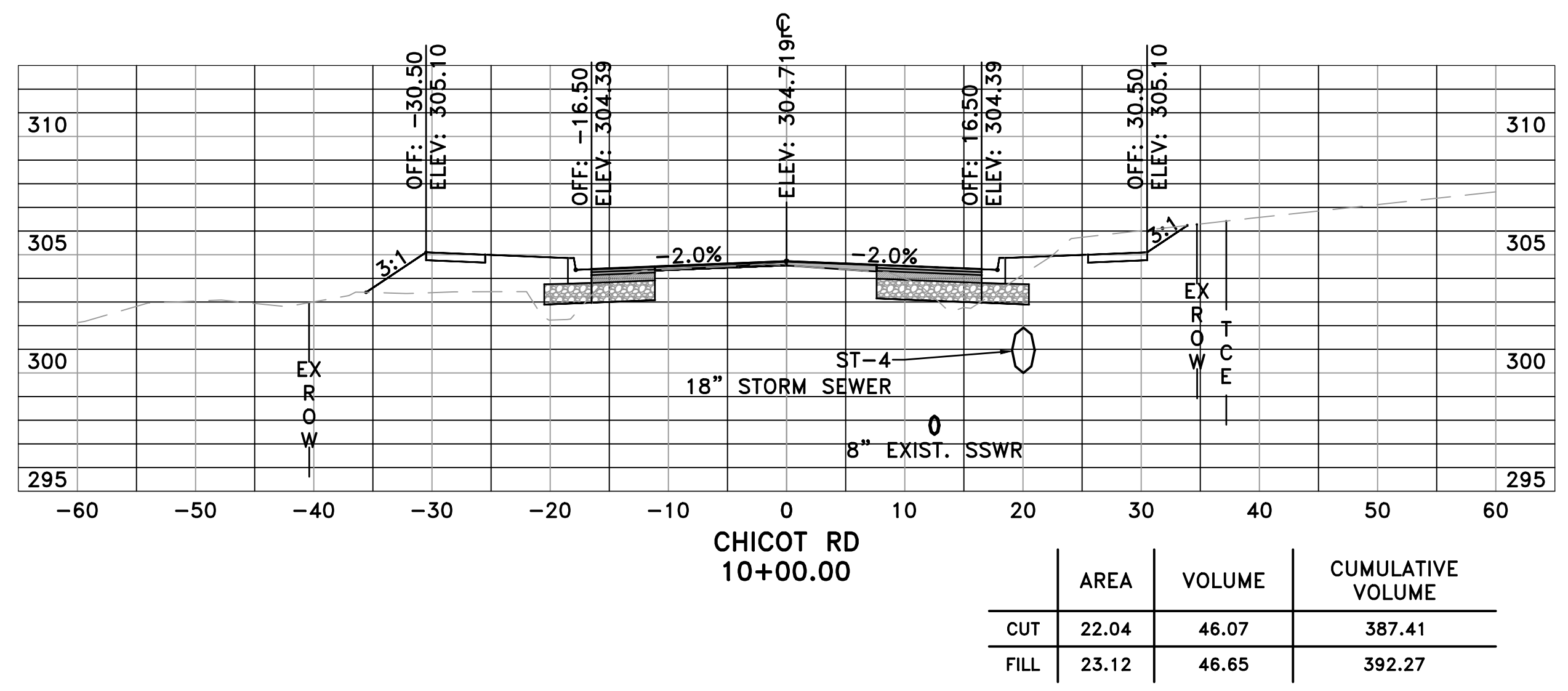
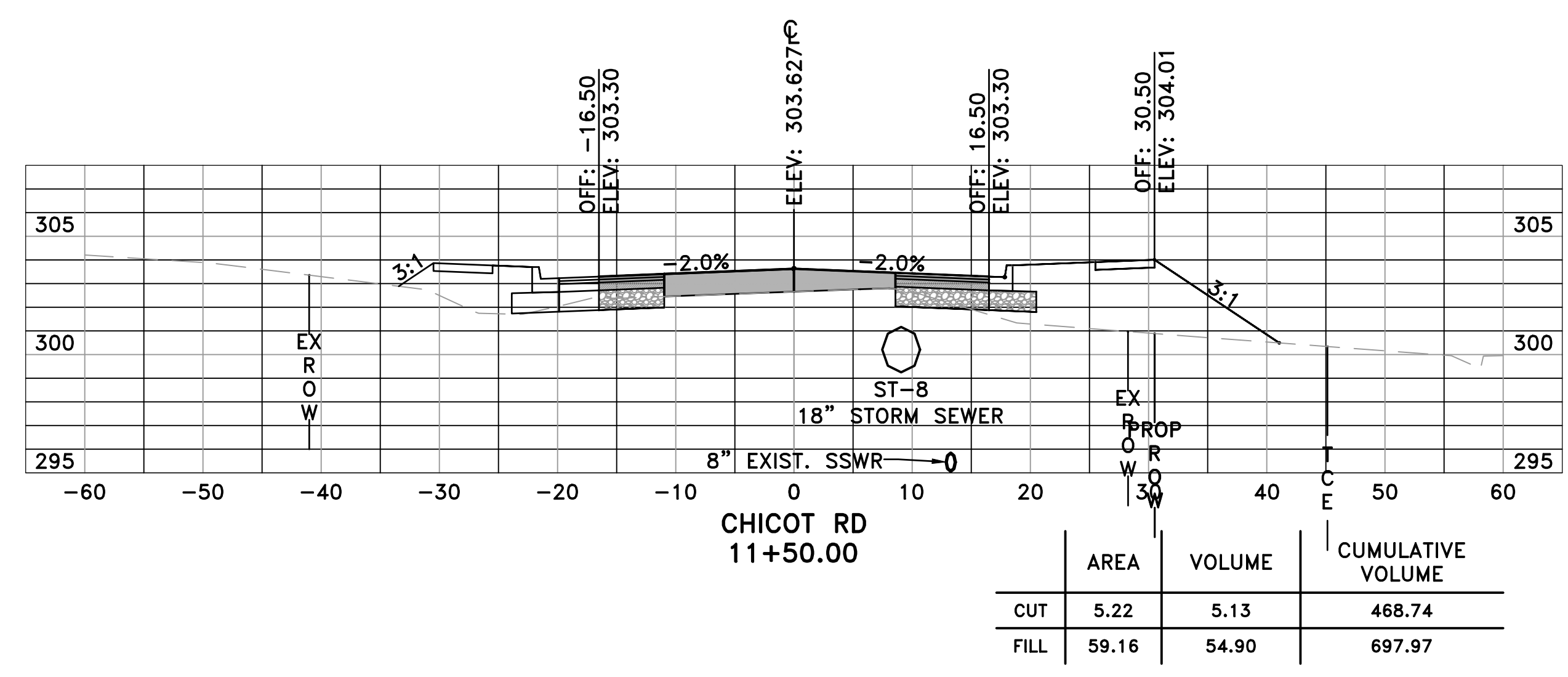
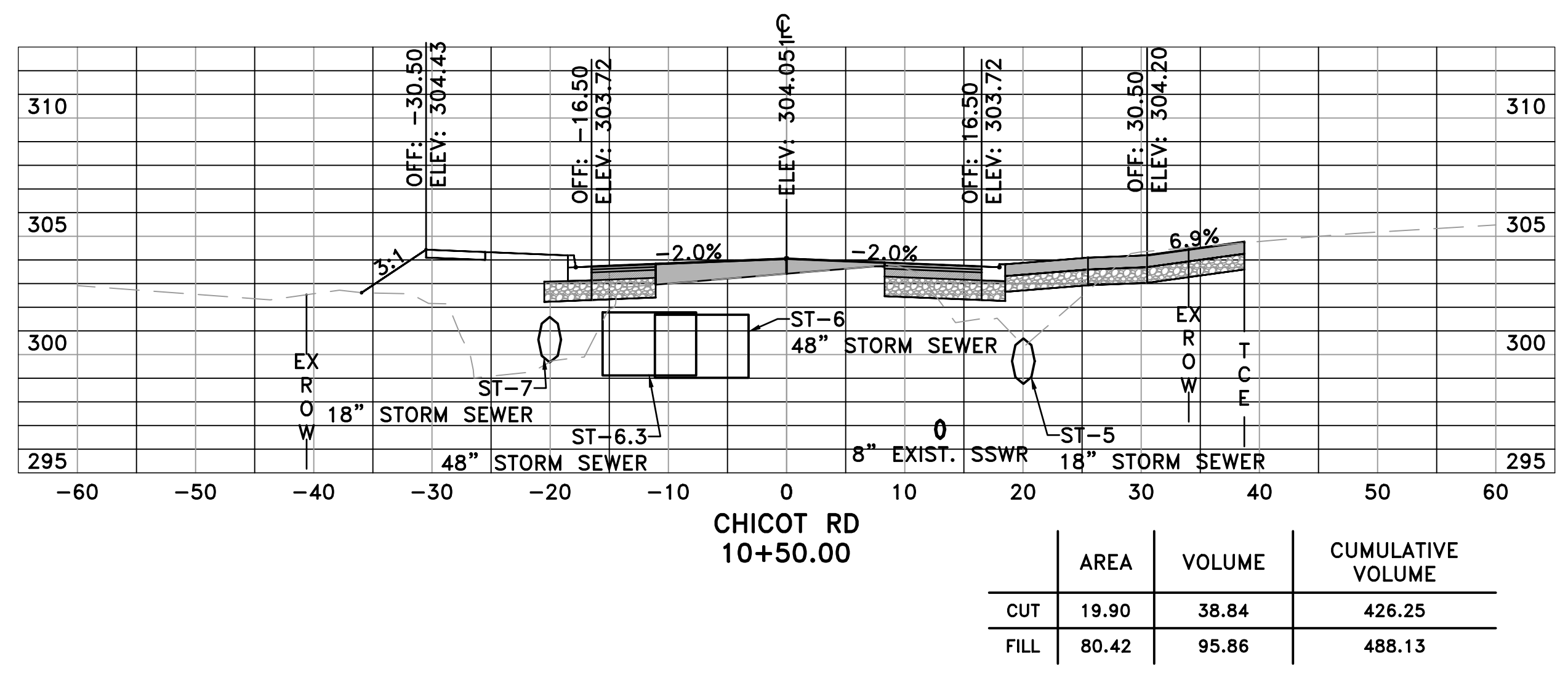
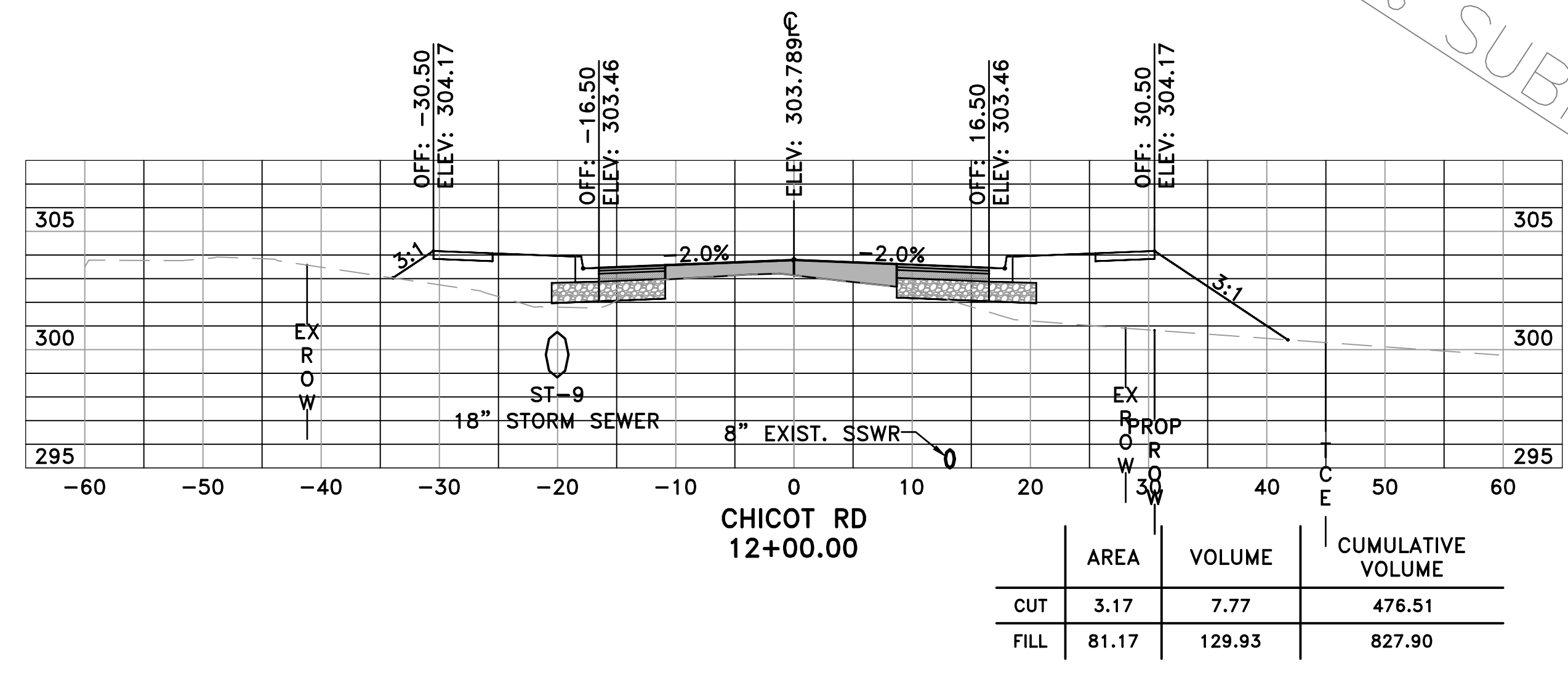
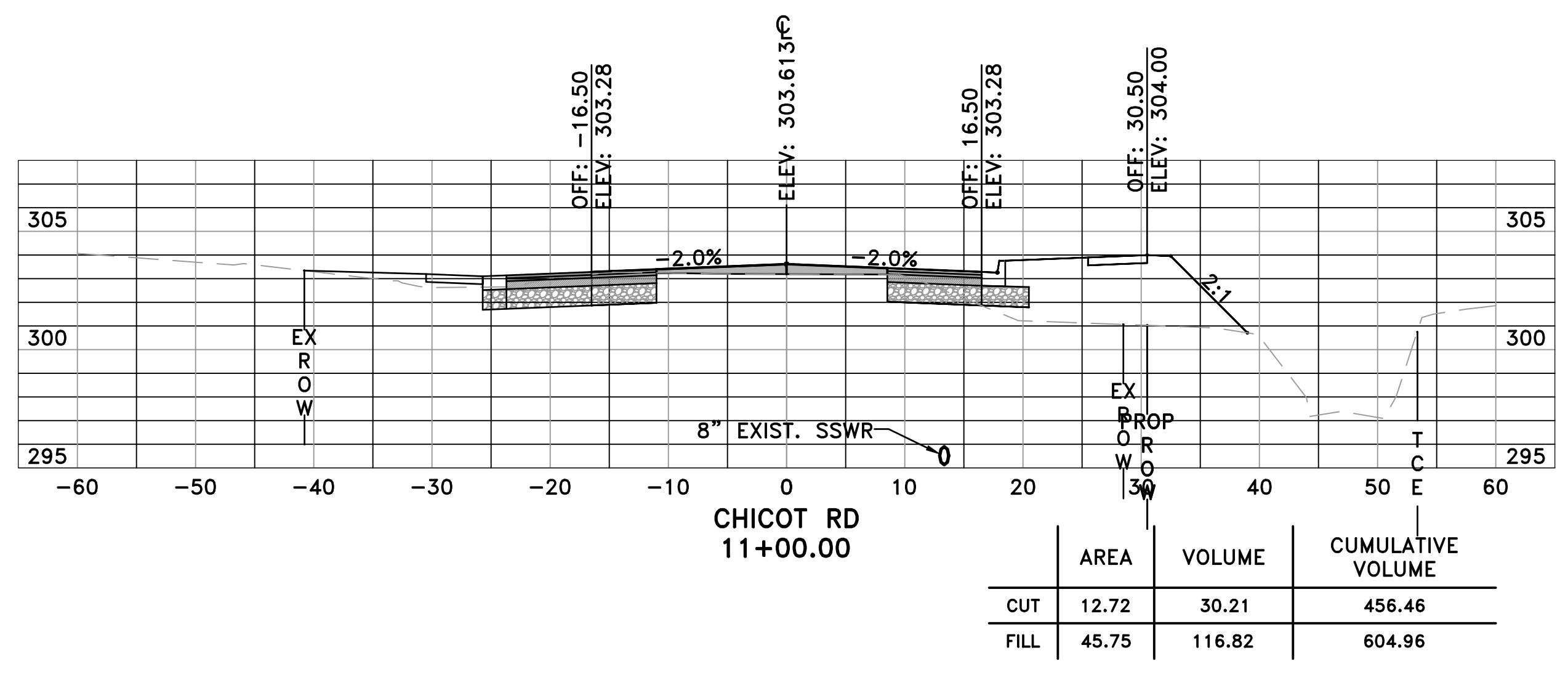
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (3)

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

SEAL

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 KLL  
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 CHECKED  
 BOL  
 DATE  
 11-15-2019  
 SCALE  
 H: 1"=10'  
 V: 1"=5'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X3



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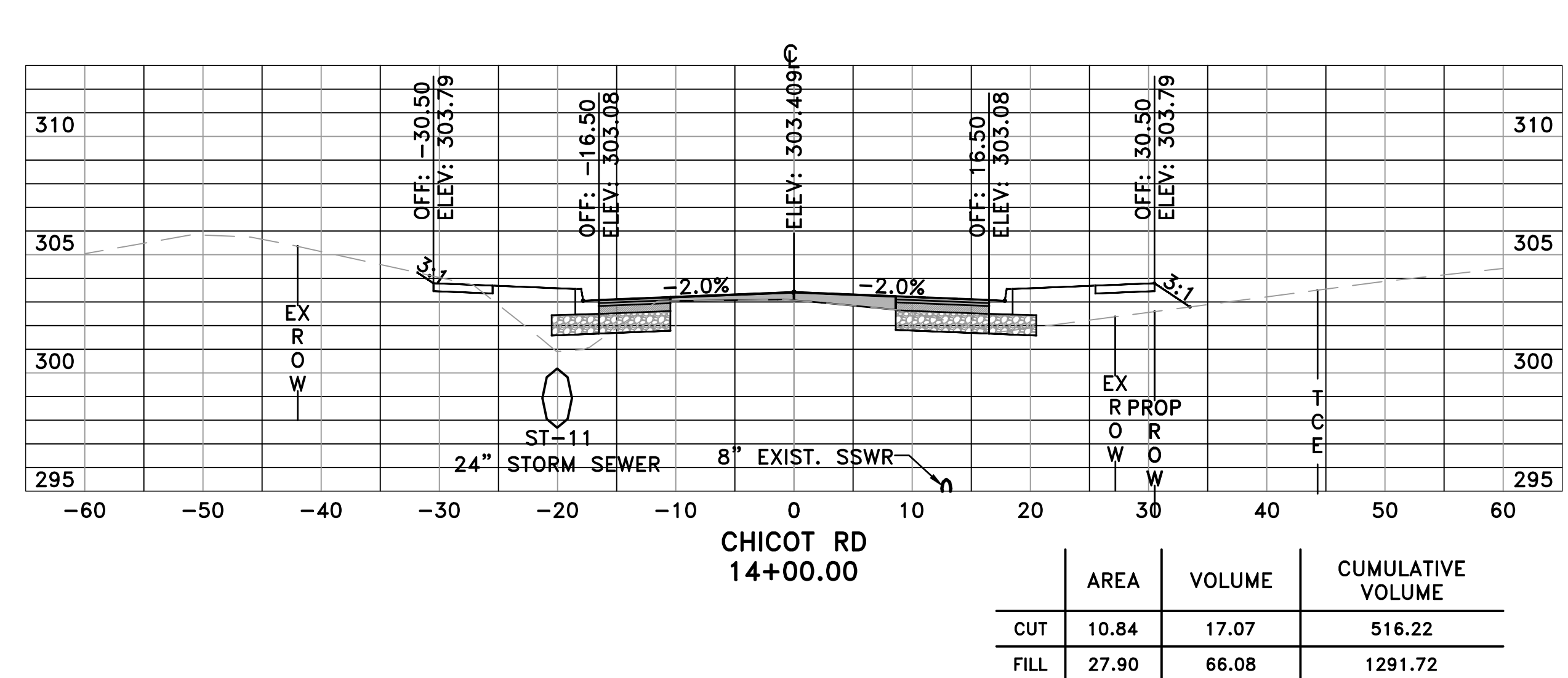
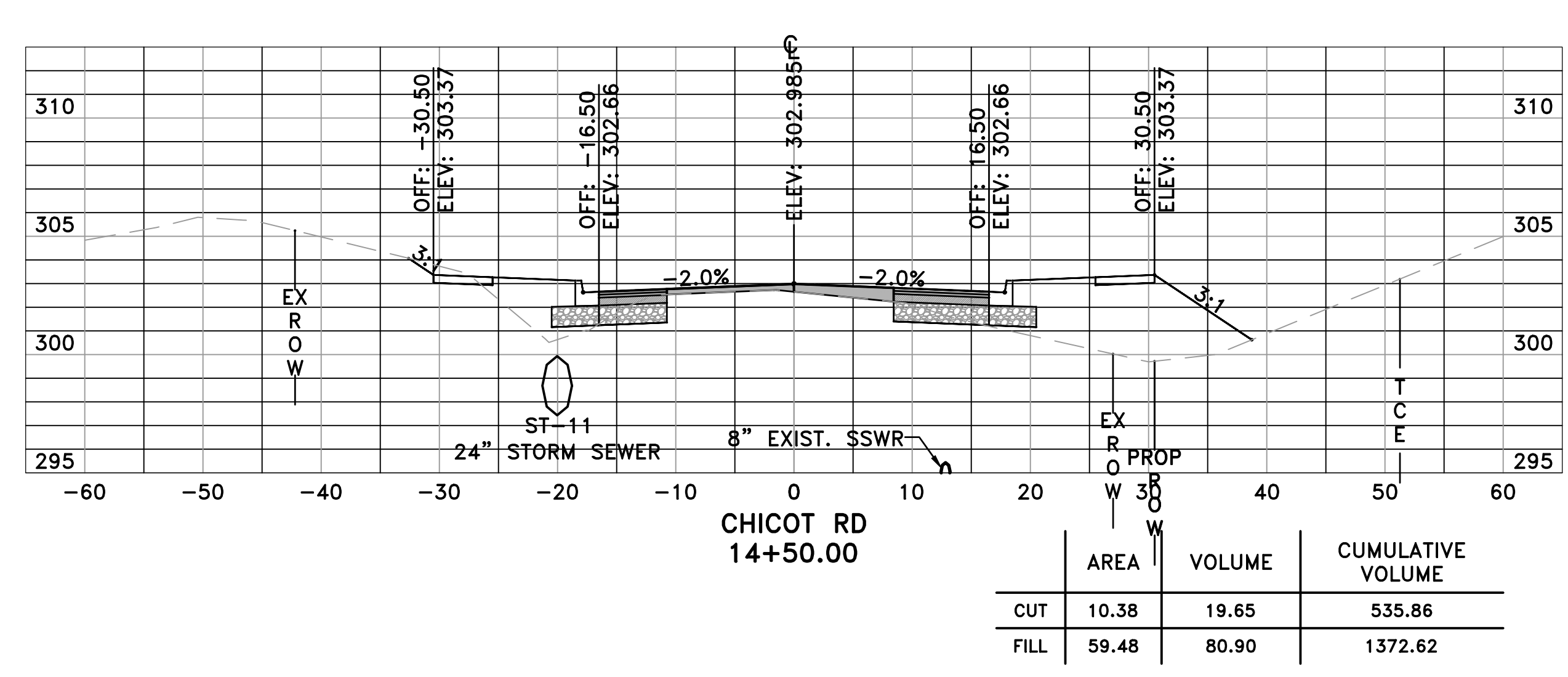
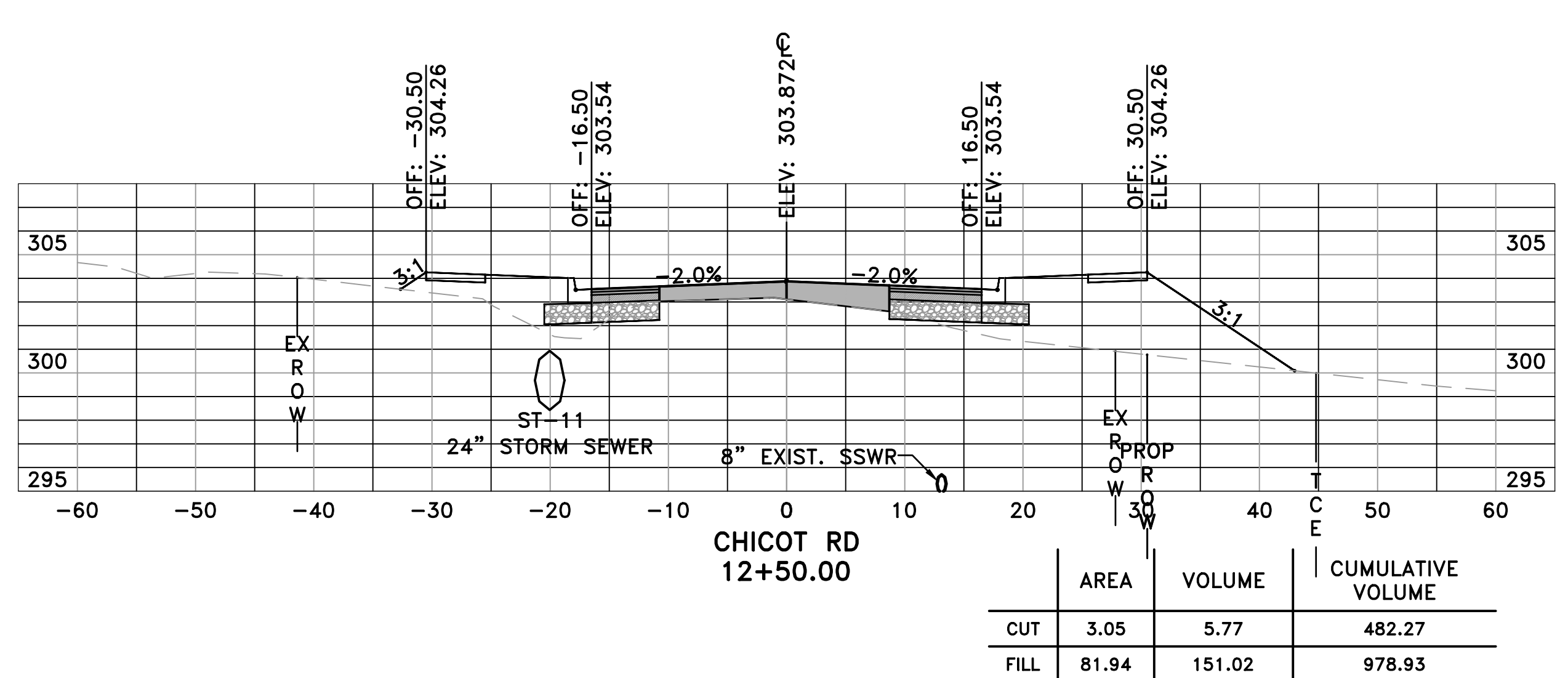
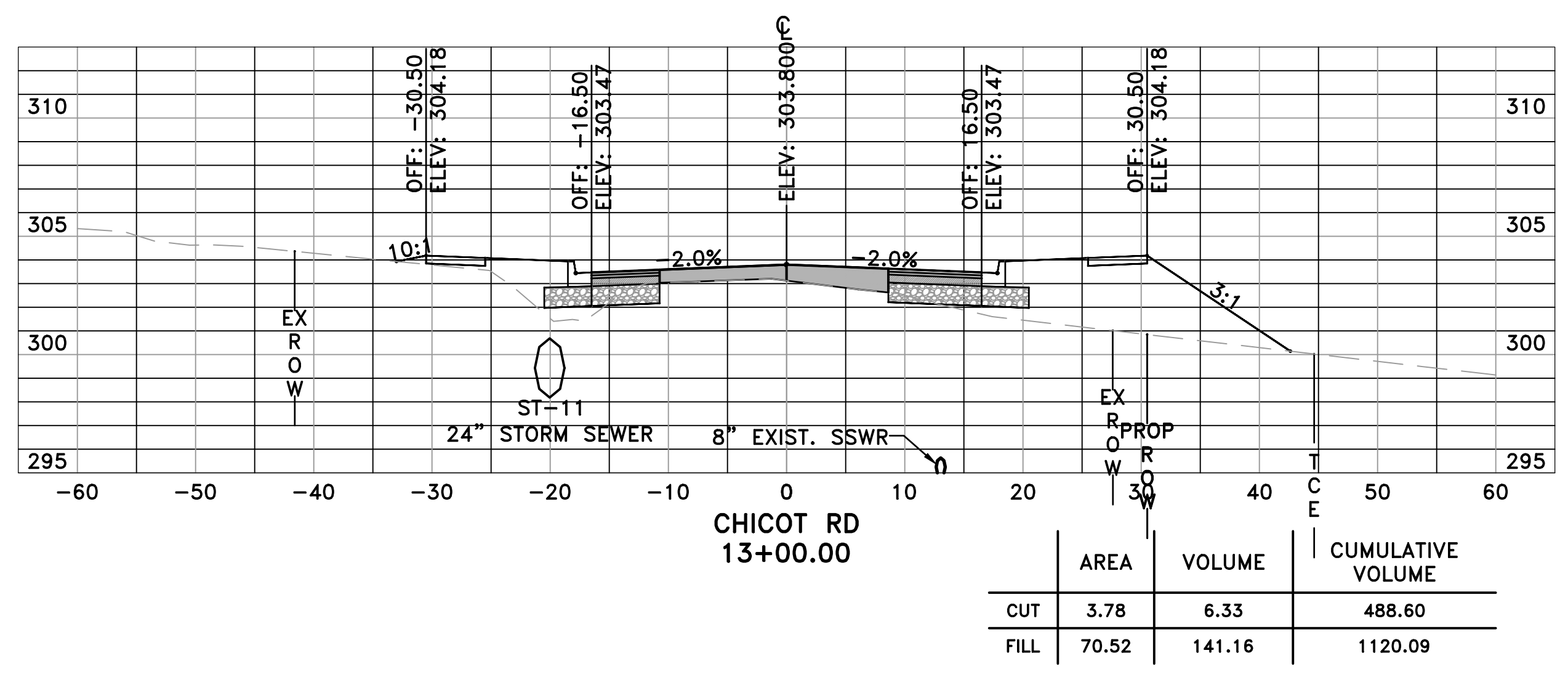
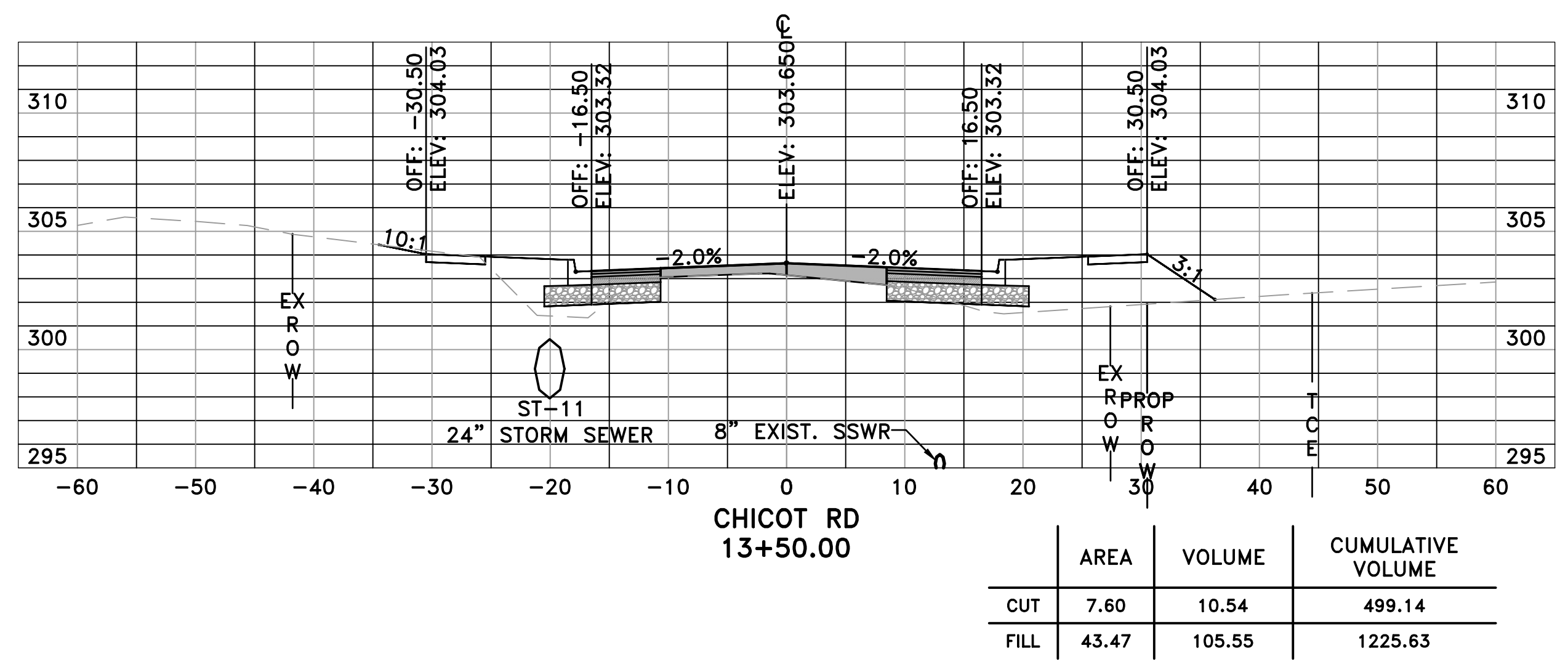
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (4)

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 DATE  
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X4



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REVISIONS	DATE

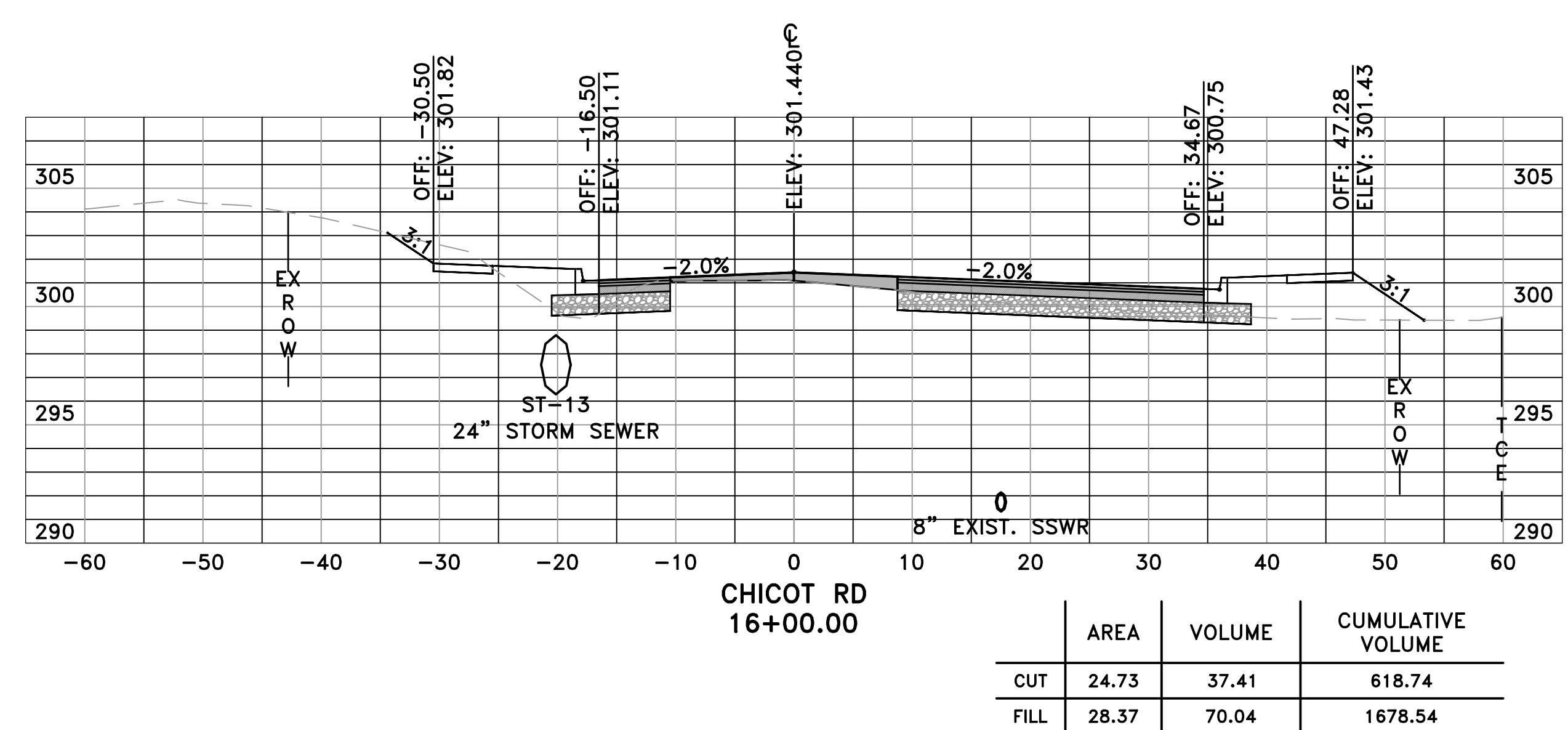
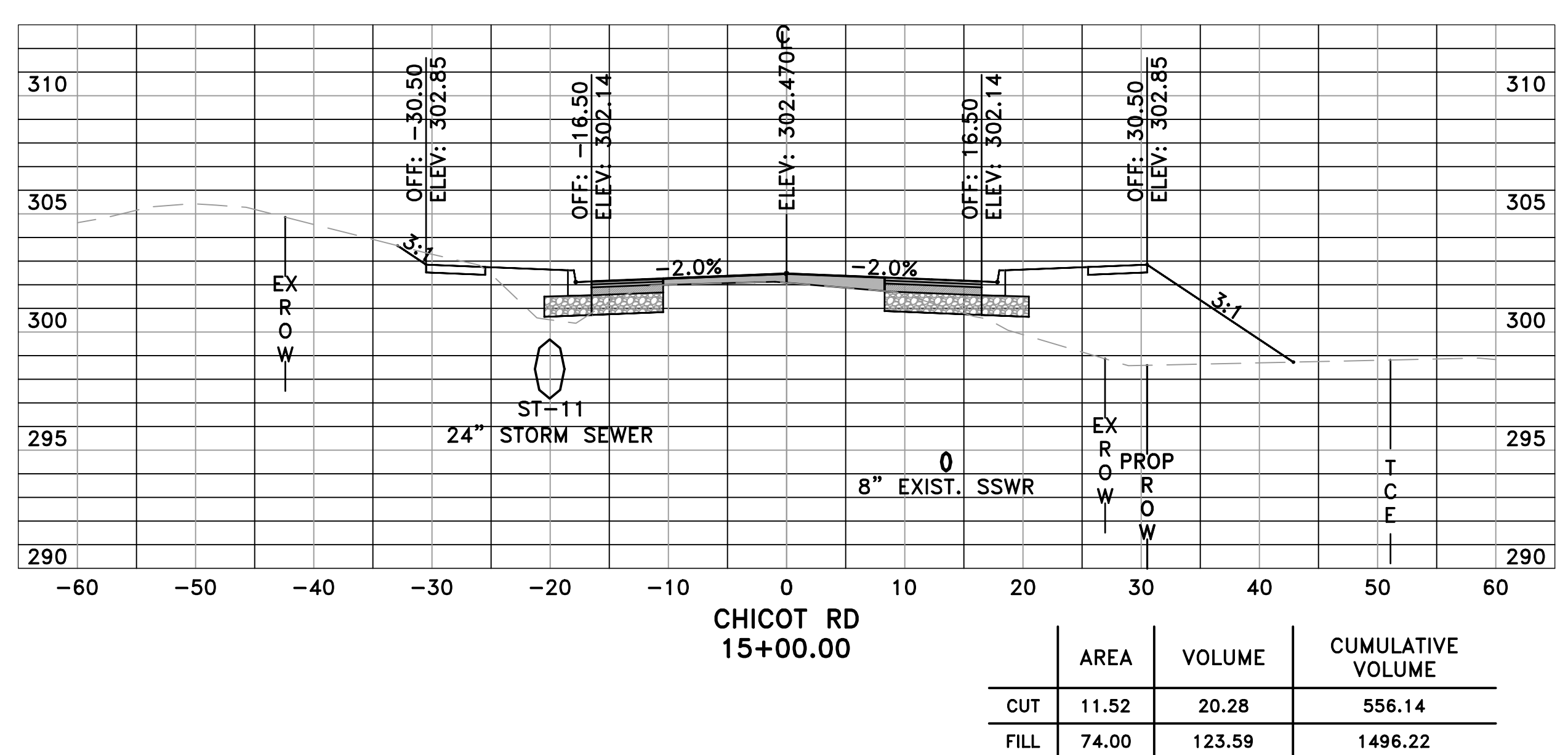
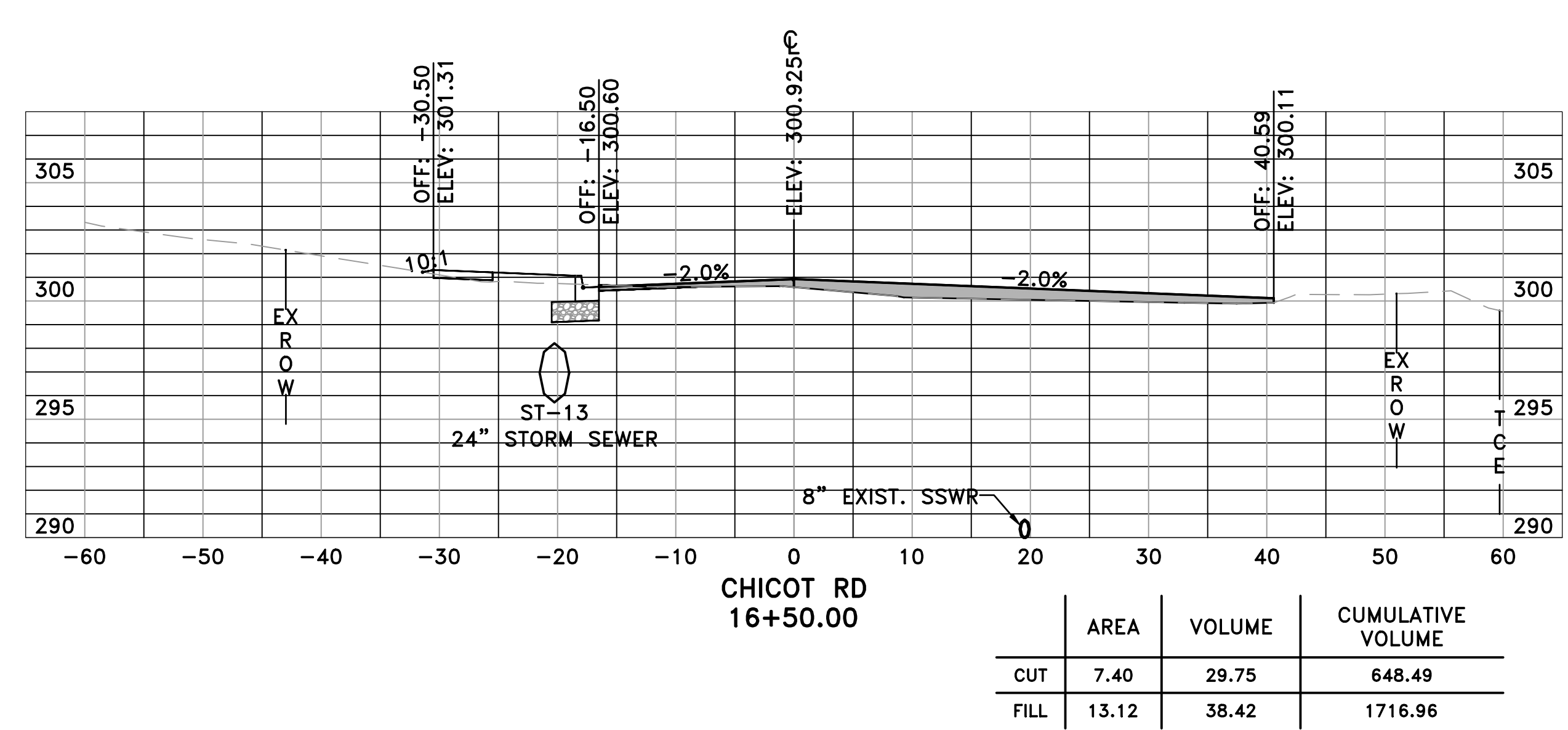
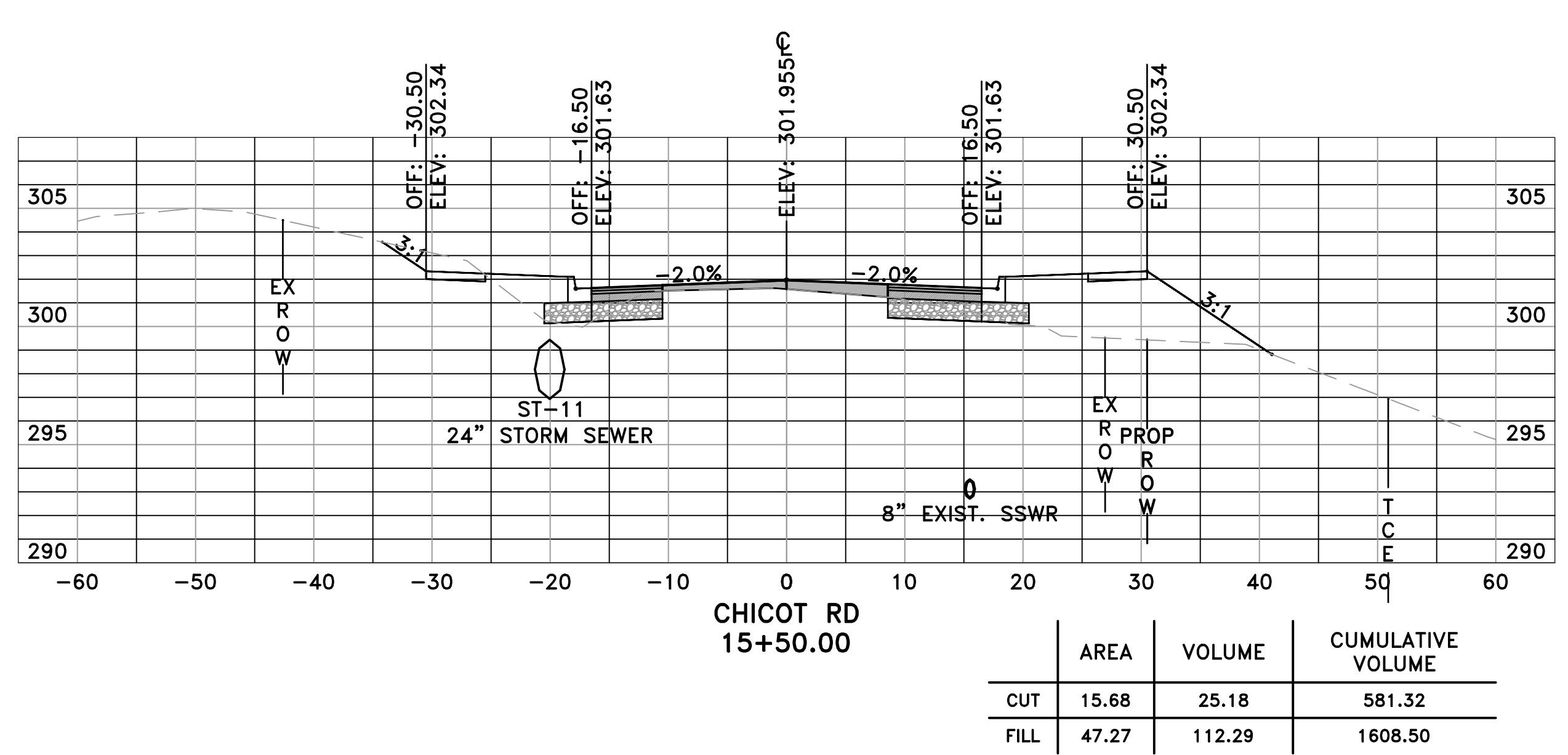
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (5)

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 V: 1"=5'  
 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X5



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REVISIONS	DATE

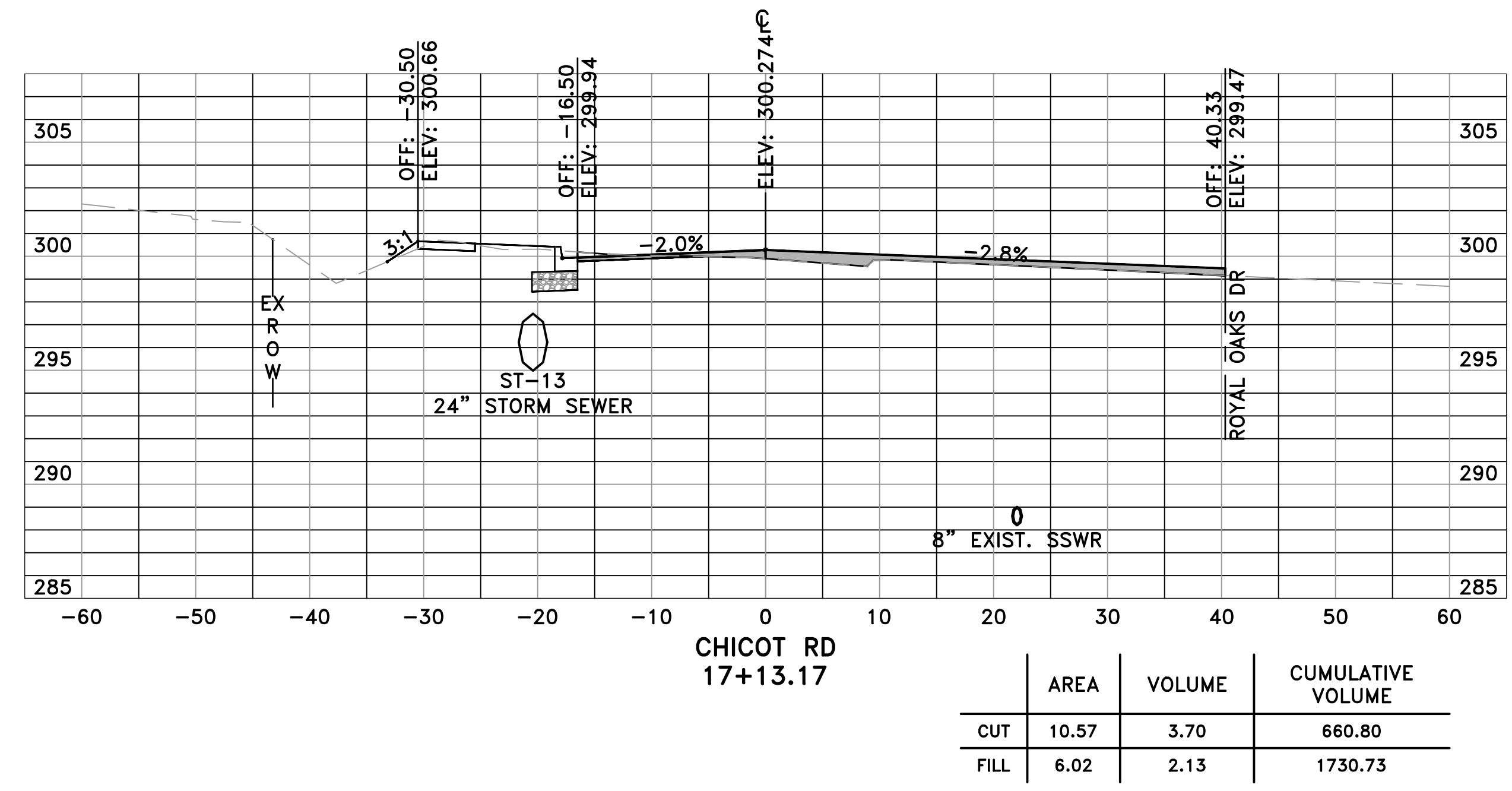
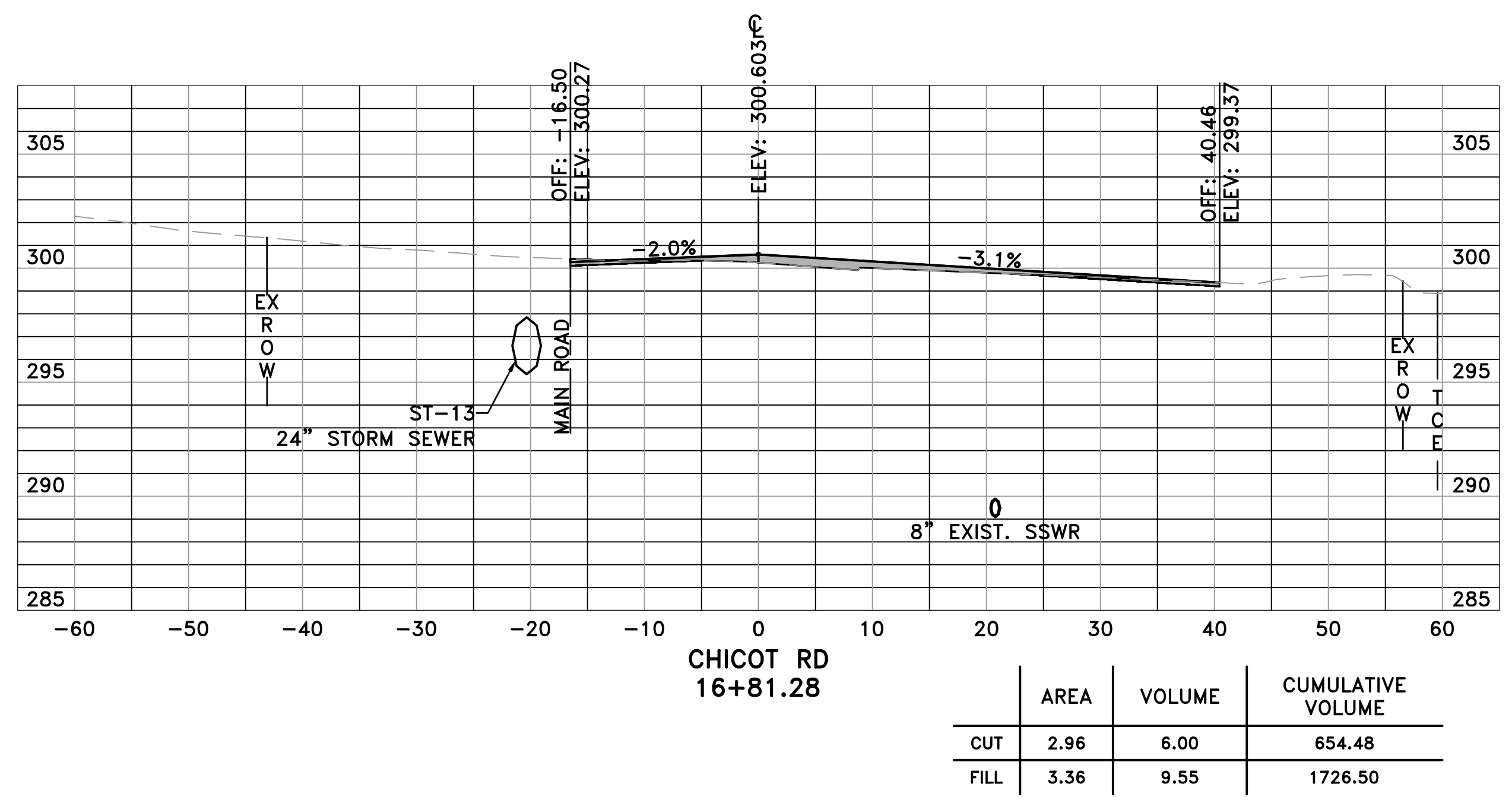
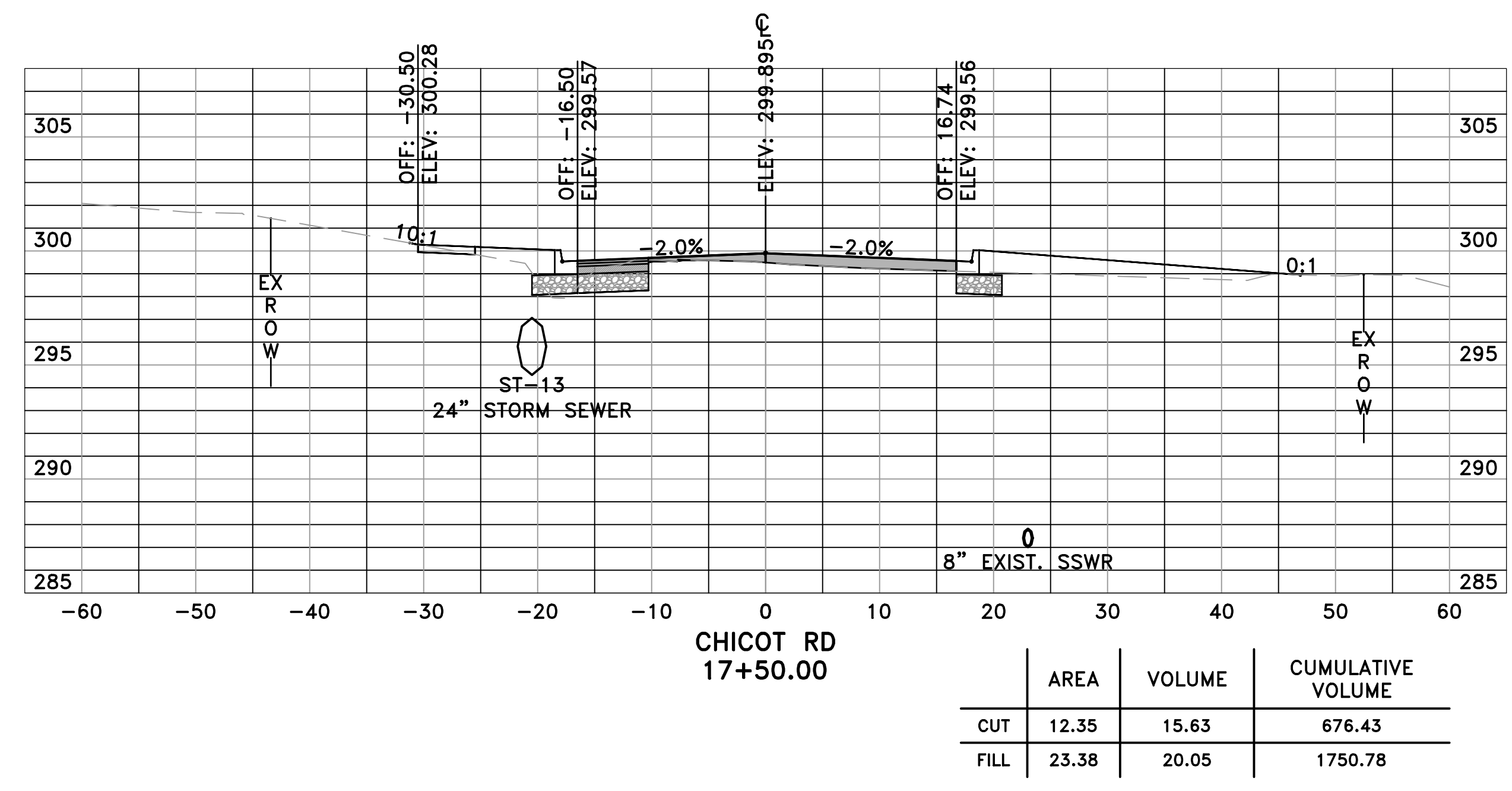
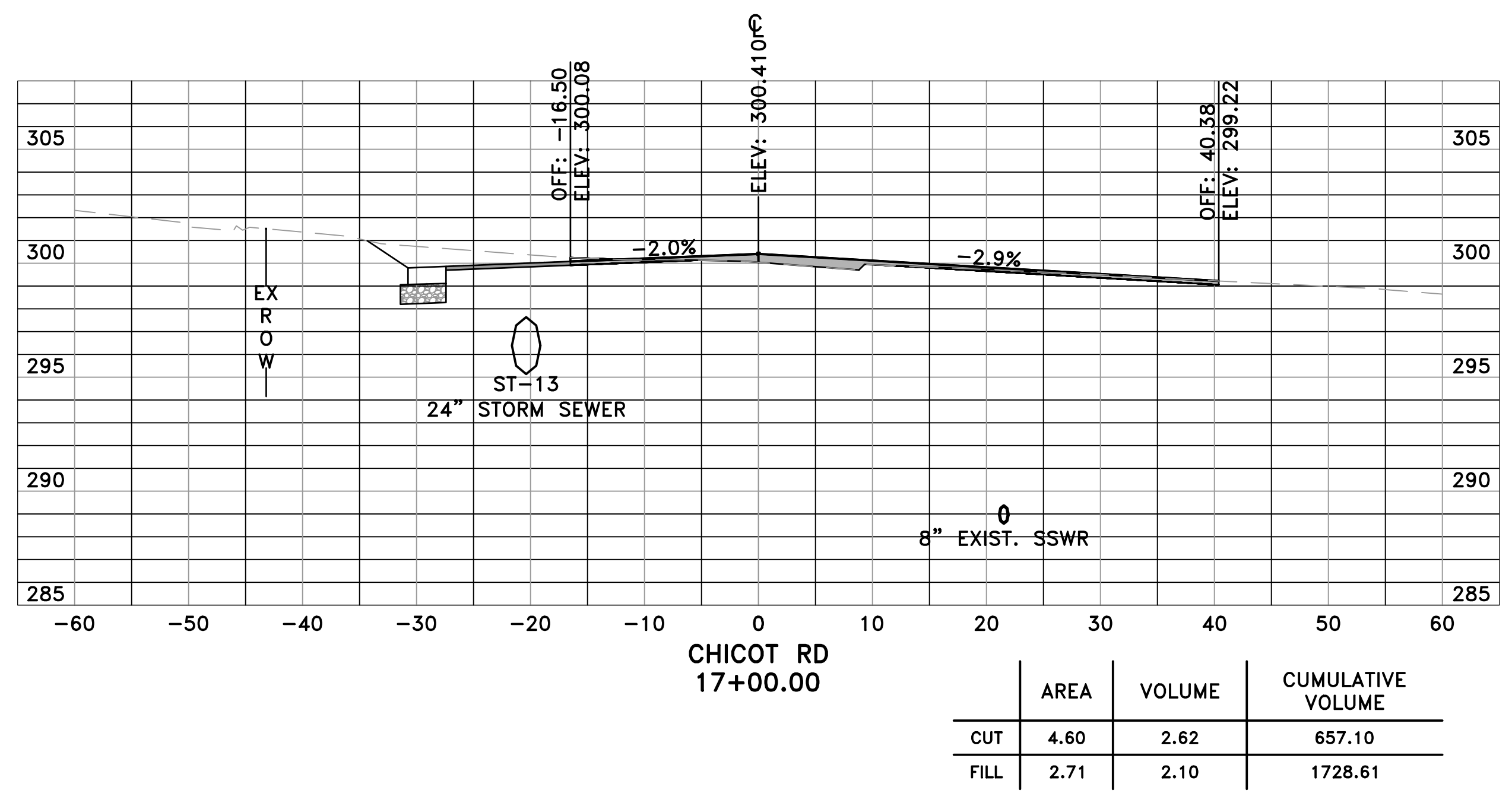
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (6)

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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X6



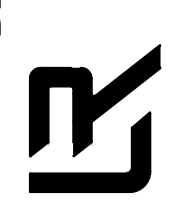


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REVISIONS	DATE

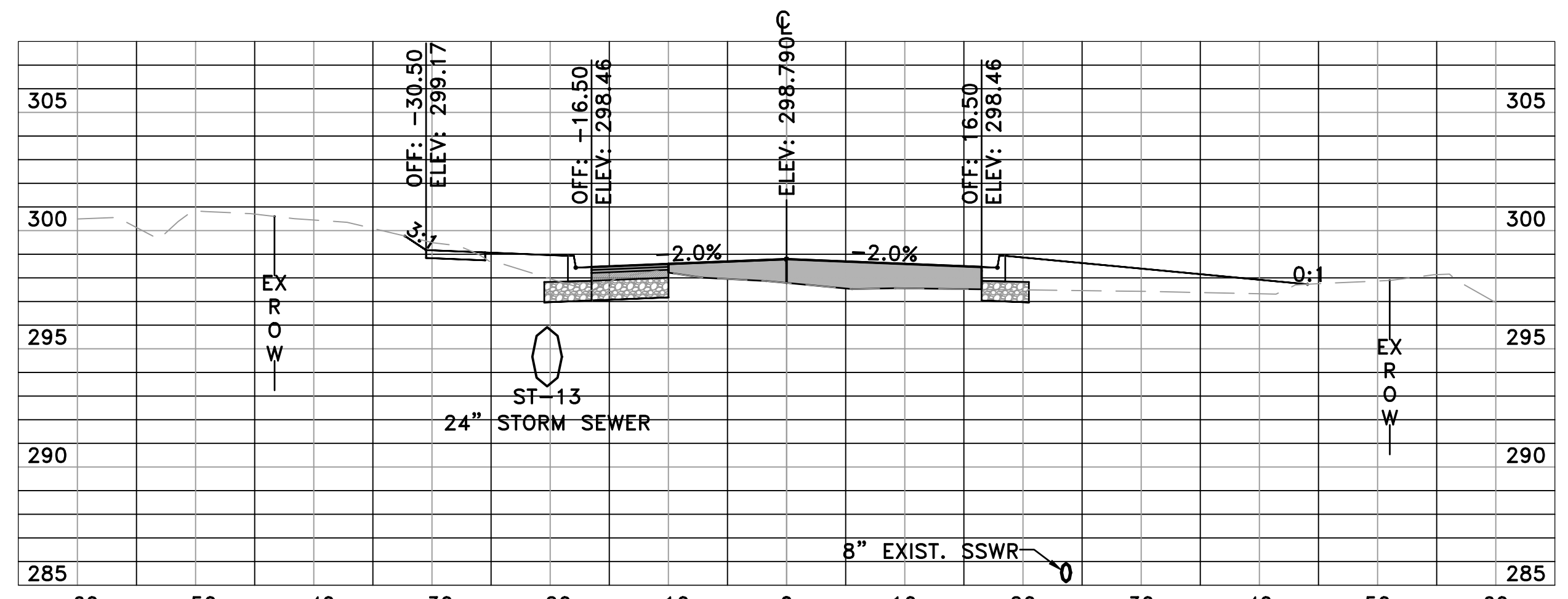
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (7)

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
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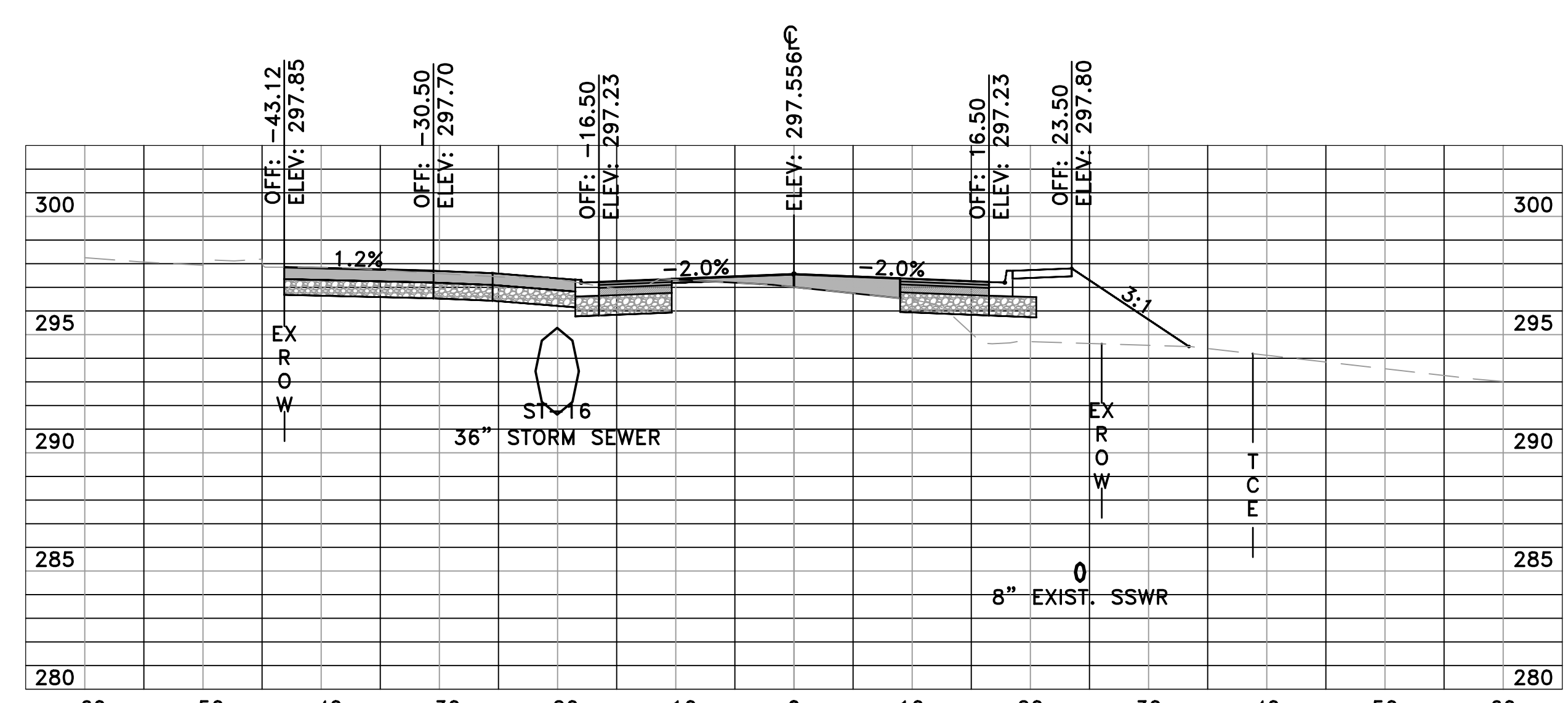
SEAL

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 DATE  
 11-15-2019  
 SCALE  
 H: 1"=10'  
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X7



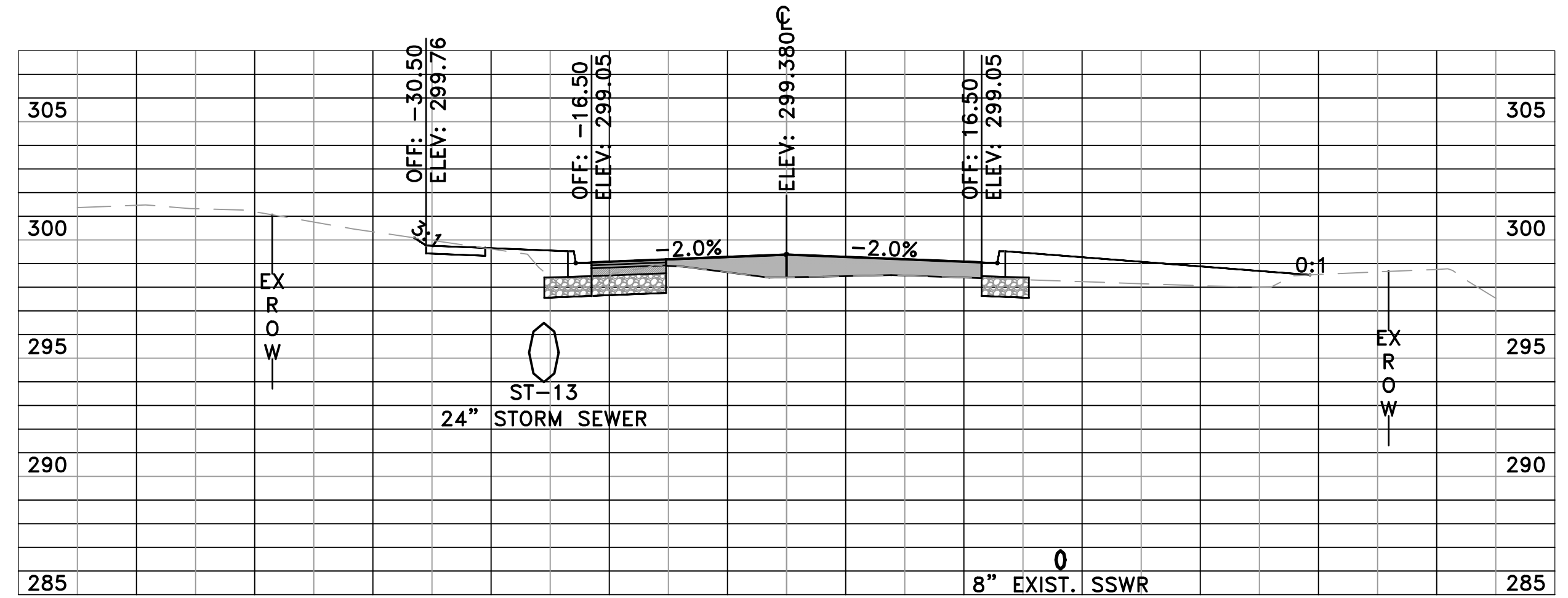
CHICOT RD  
 18+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	13.81	24.88	724.83
FILL	43.20	72.39	1877.22



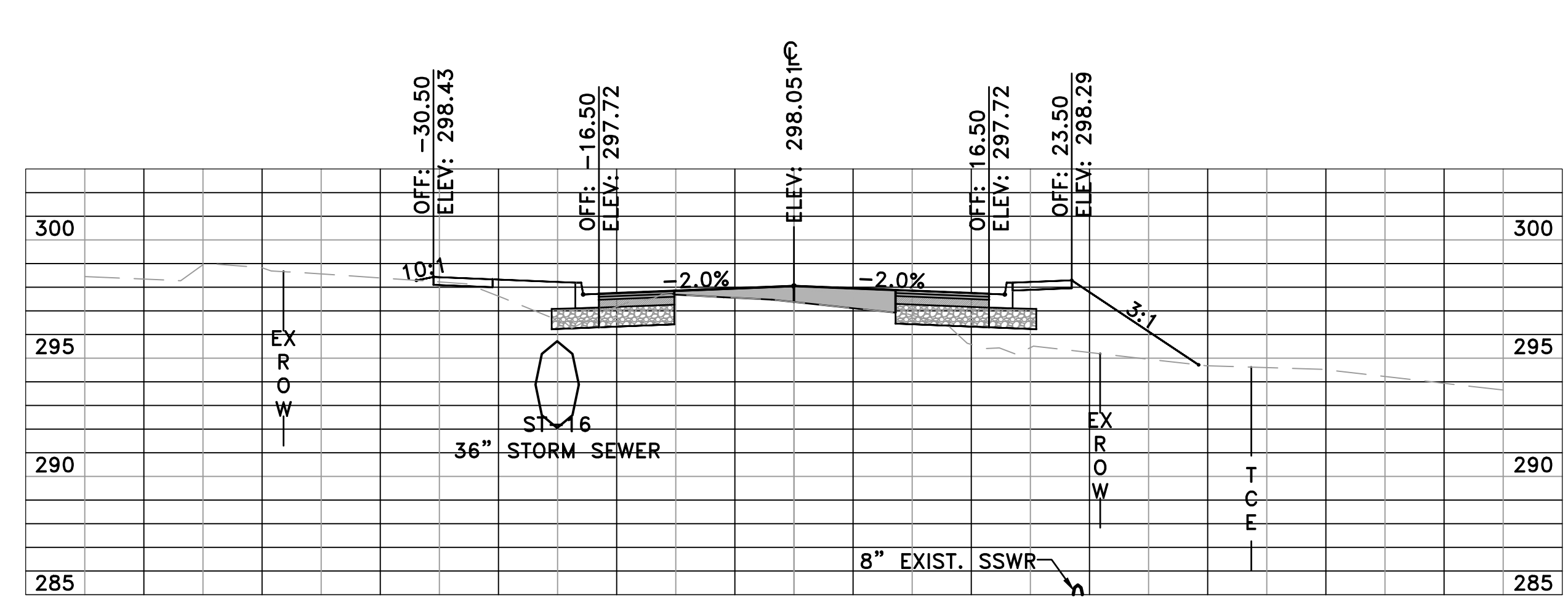
CHICOT RD  
 19+32.29

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	39.43	29.08	775.22
FILL	36.55	47.45	2004.31



CHICOT RD  
 18+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	13.06	23.52	699.96
FILL	34.99	54.05	1804.83



CHICOT RD  
 19+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	9.20	21.30	746.14
FILL	42.81	79.64	1956.86

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REVISIONS	DATE

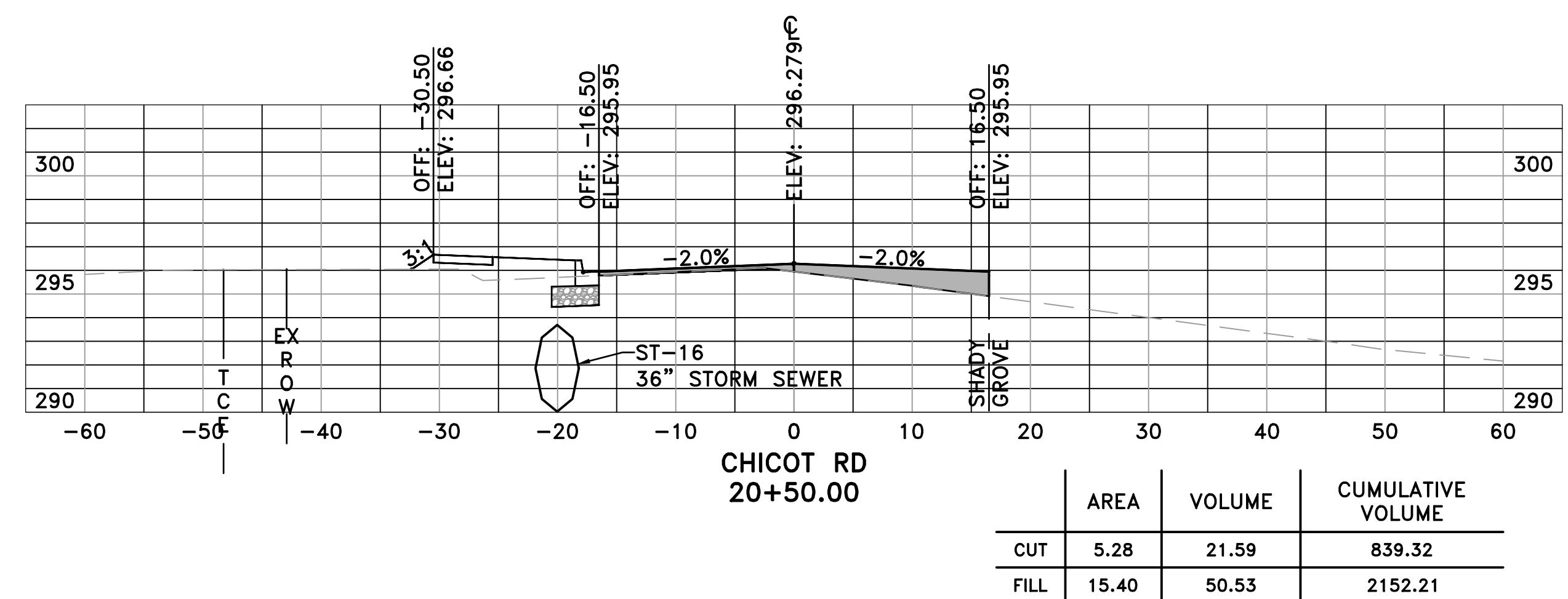
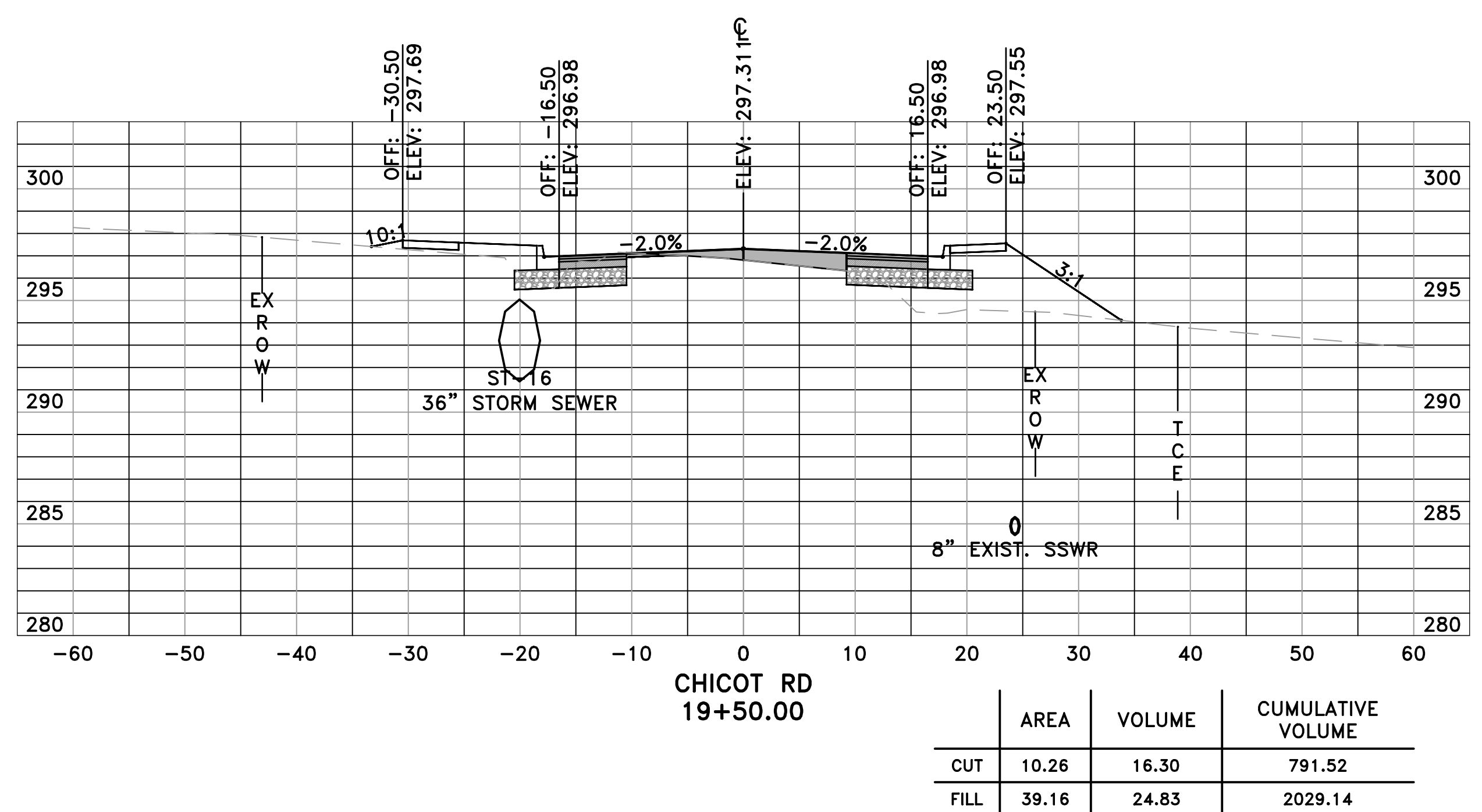
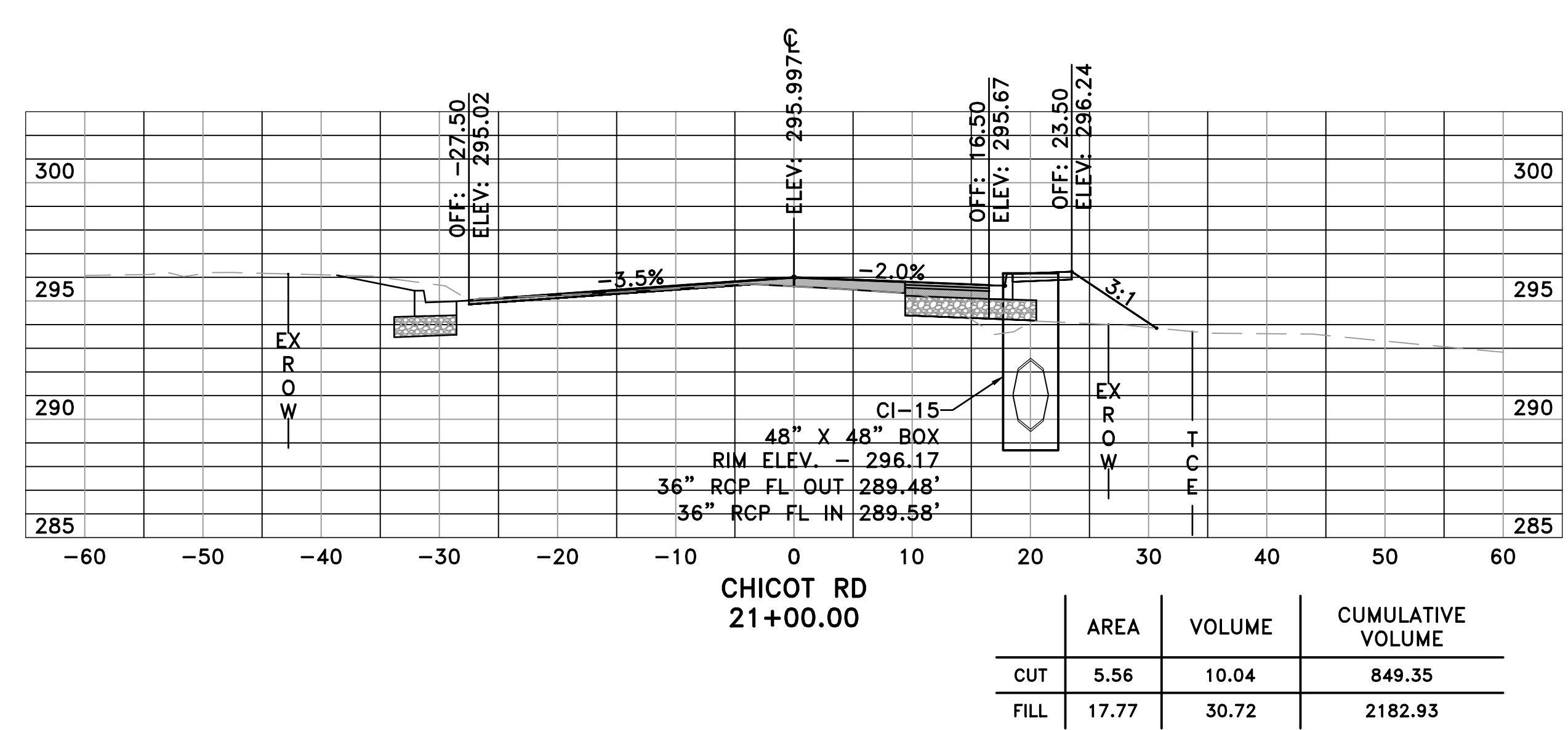
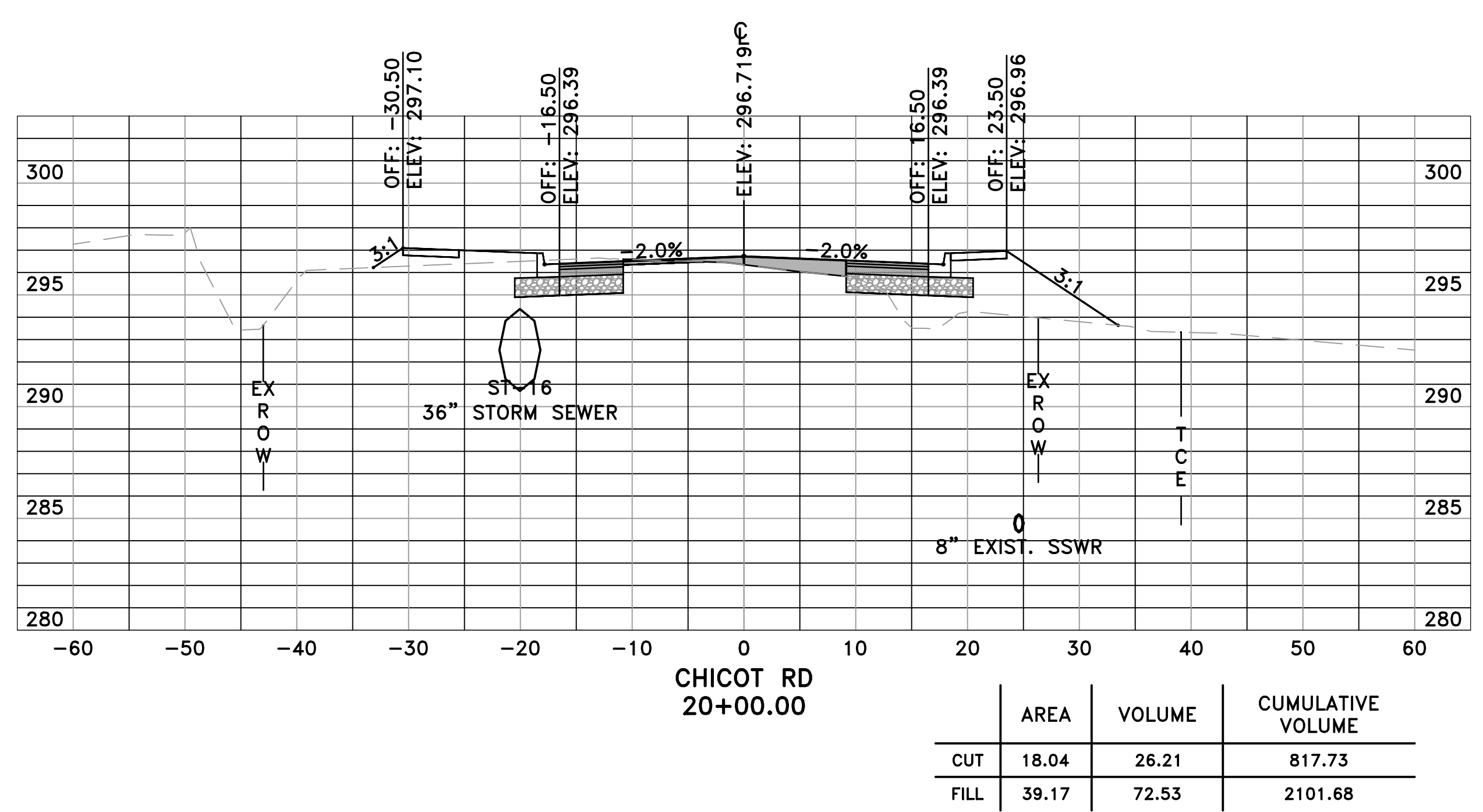
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (8)

DEPARTMENT OF PUBLIC WORKS  
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 701 W. MARKHAM  
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 H: 1"=10'  
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X8



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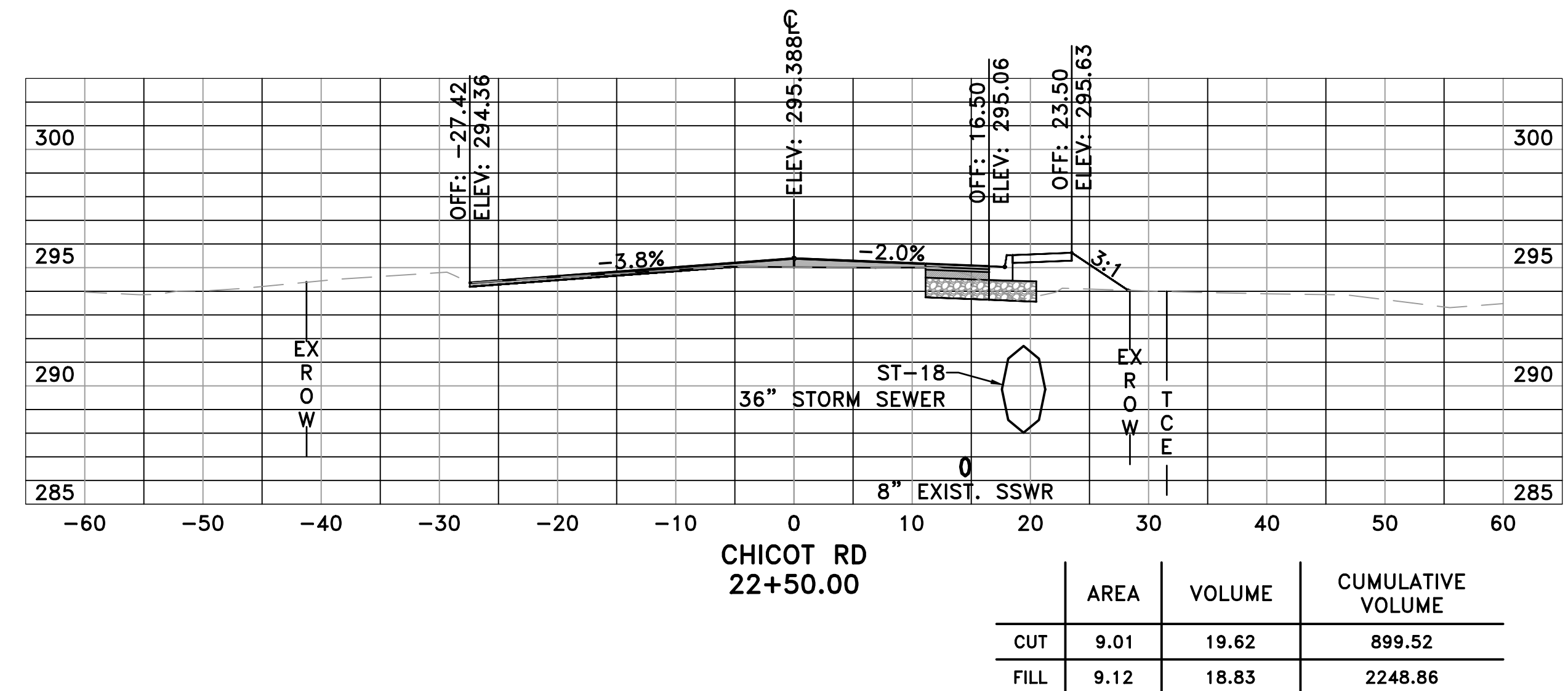
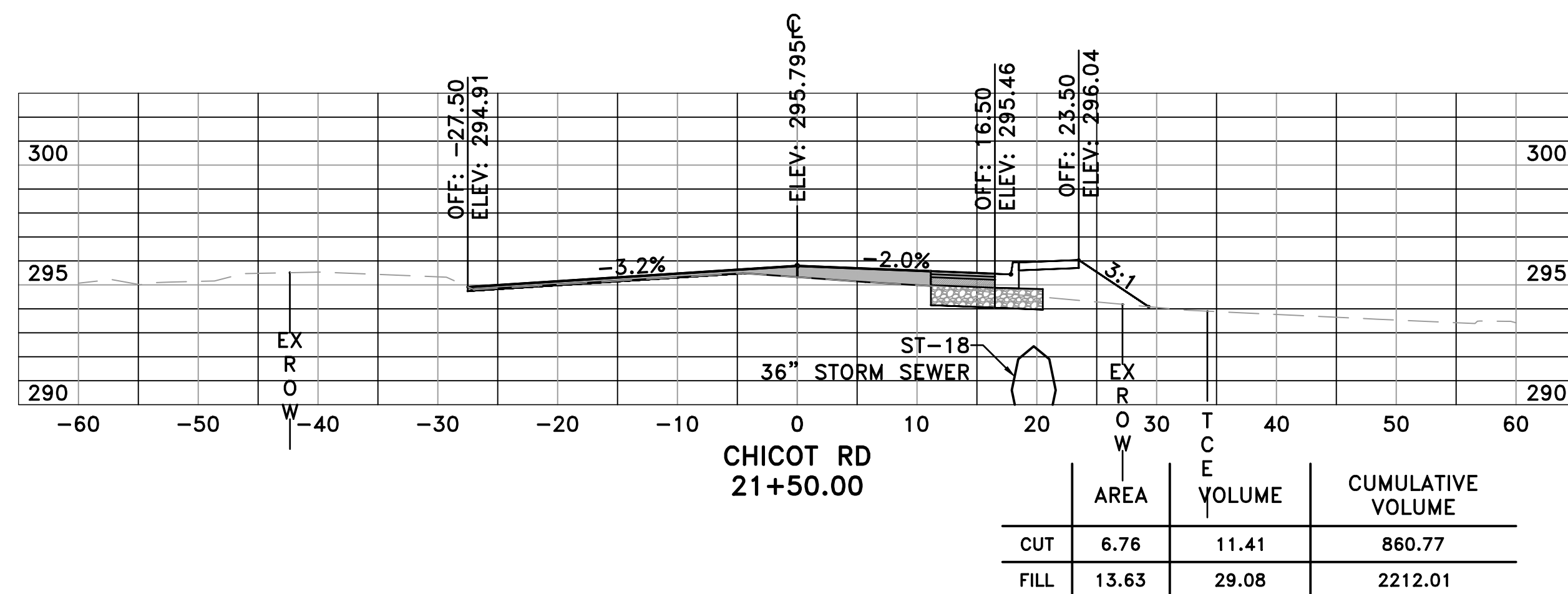
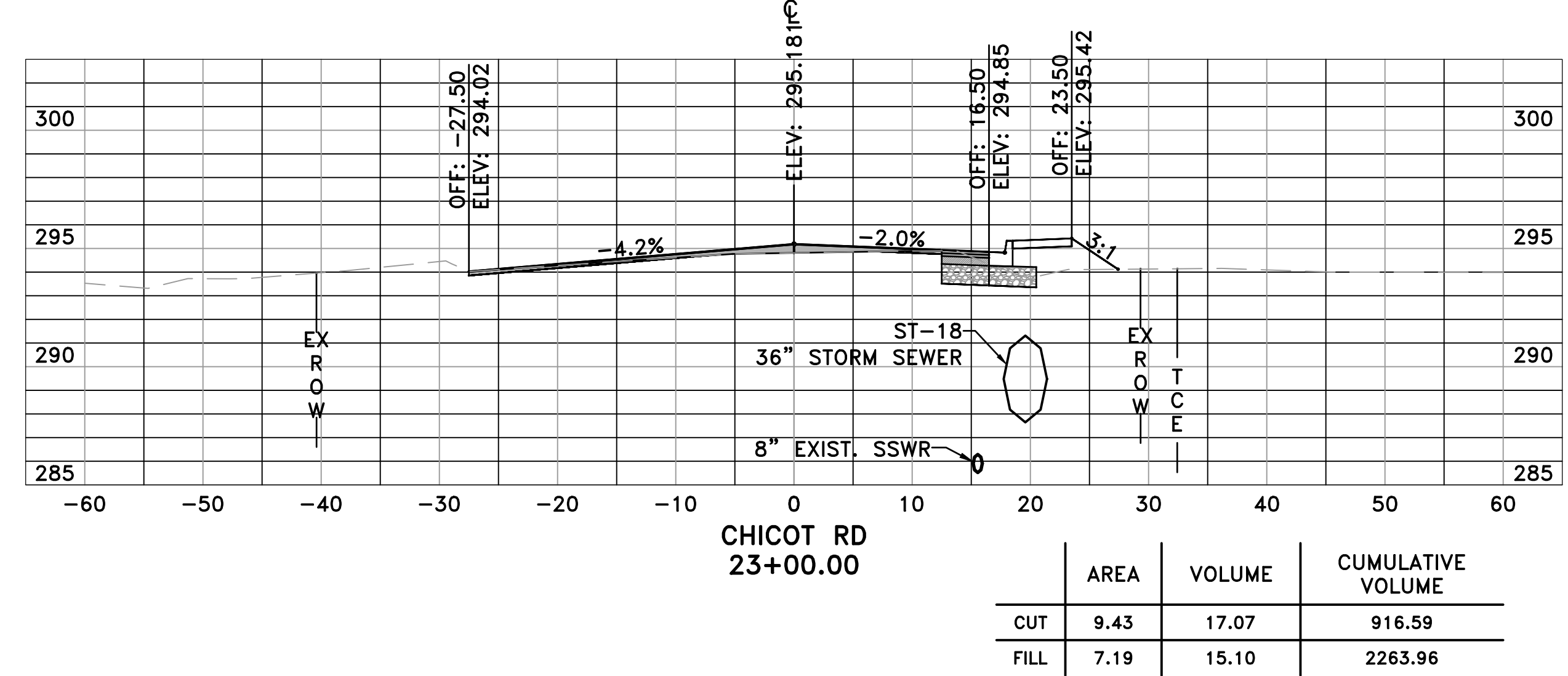
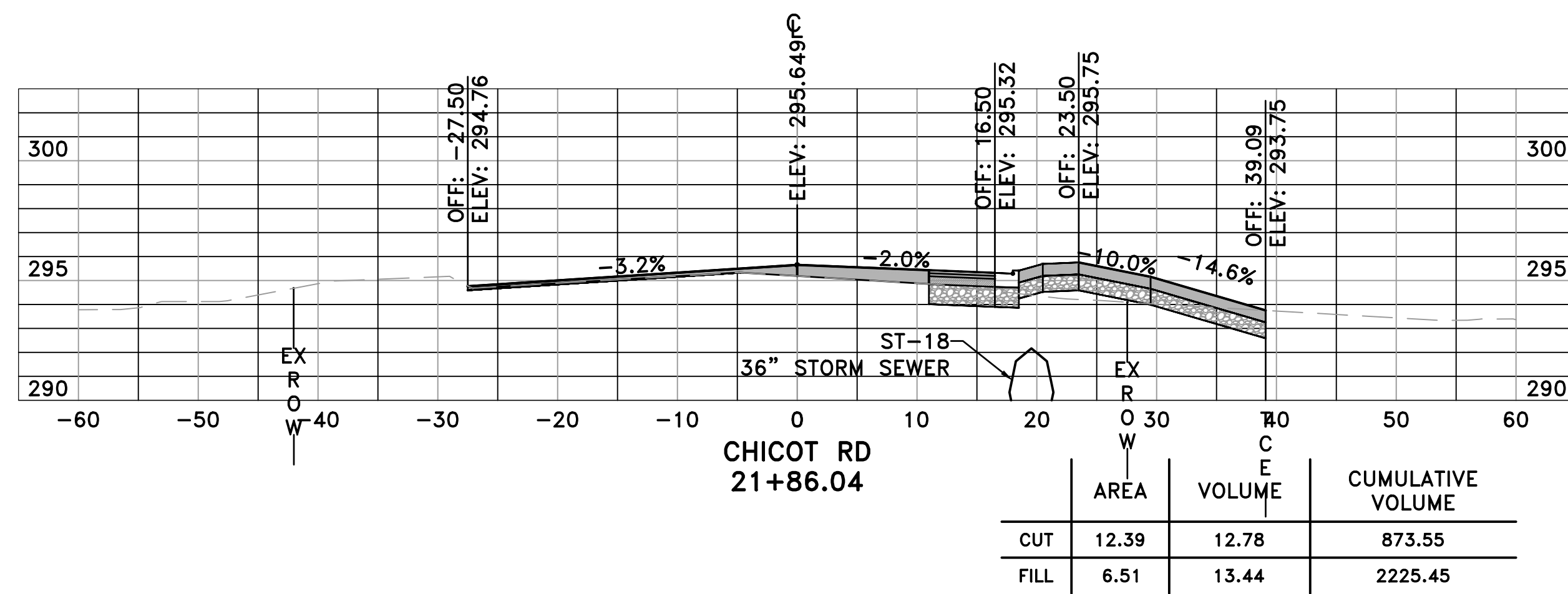
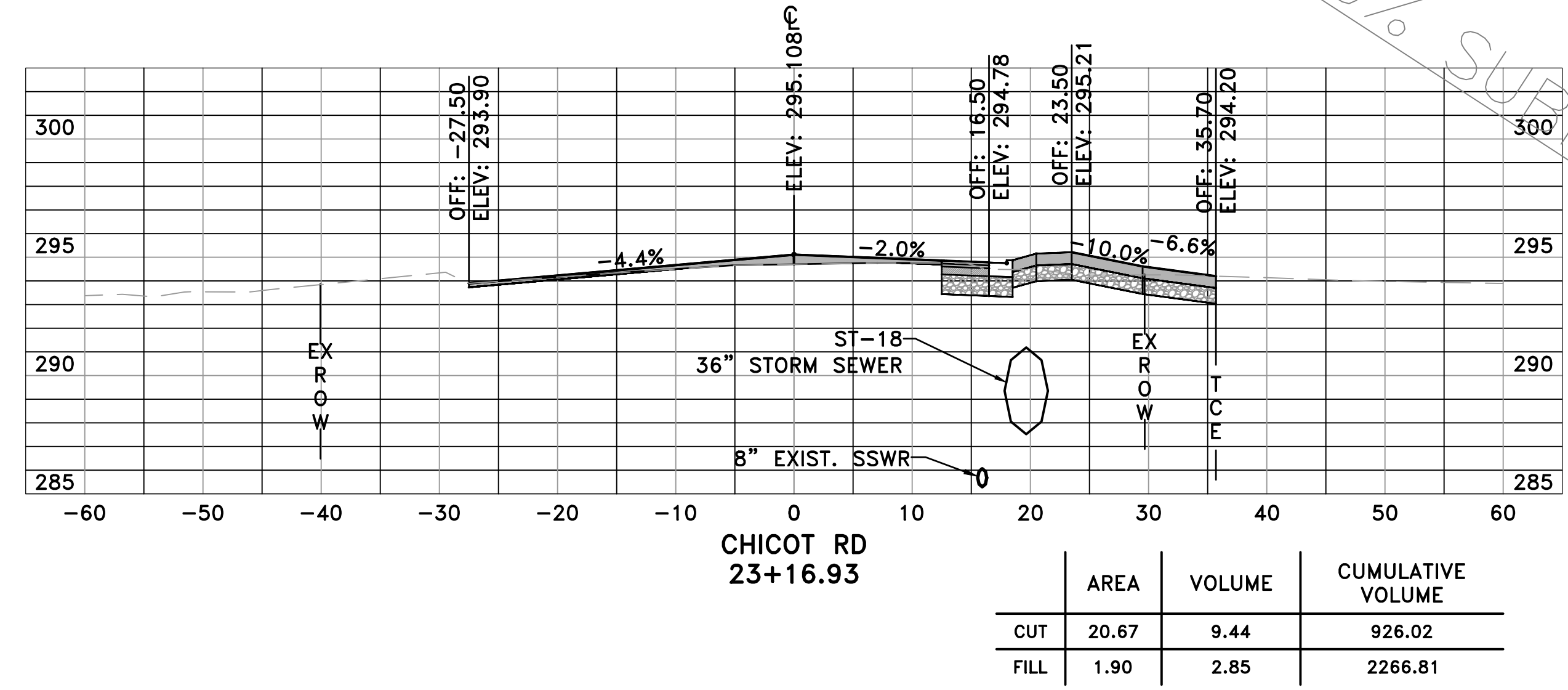
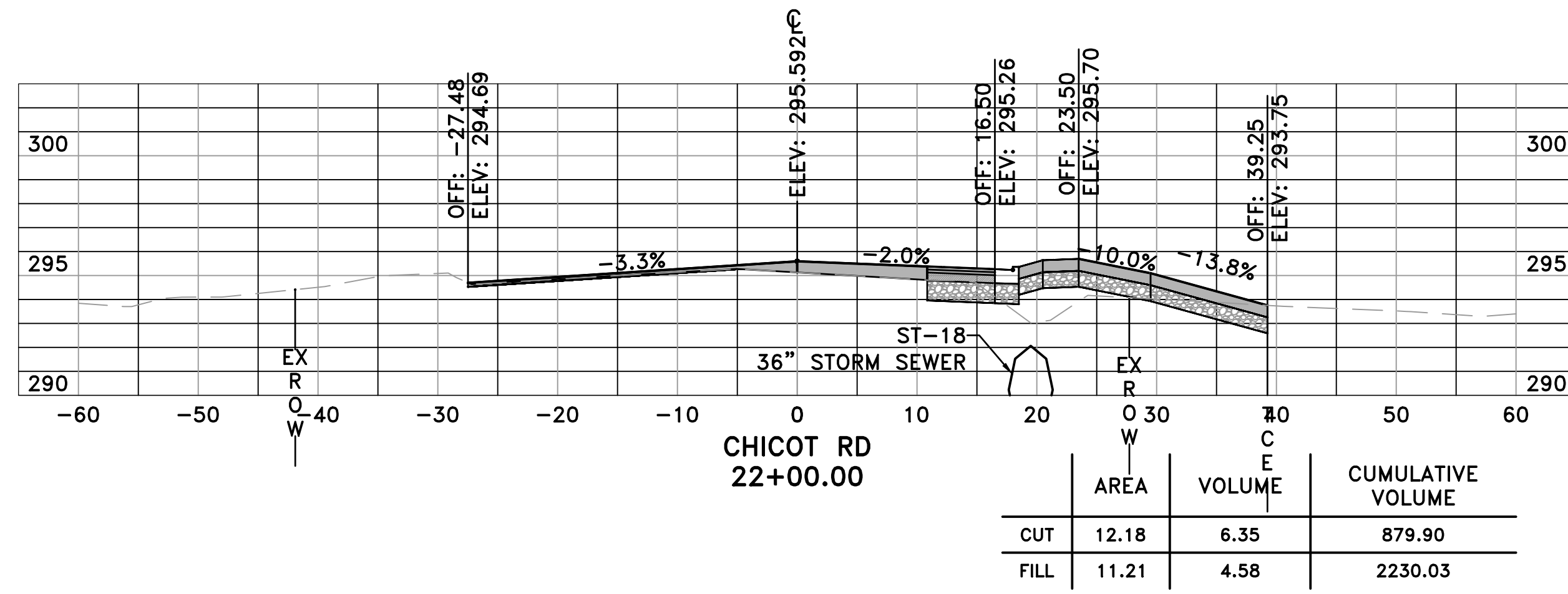
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (9)

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

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 H: 1"=10'  
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X9



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**CHICOT ROAD RECONSTRUCTION**  
**CROSS SECTIONS (10)**

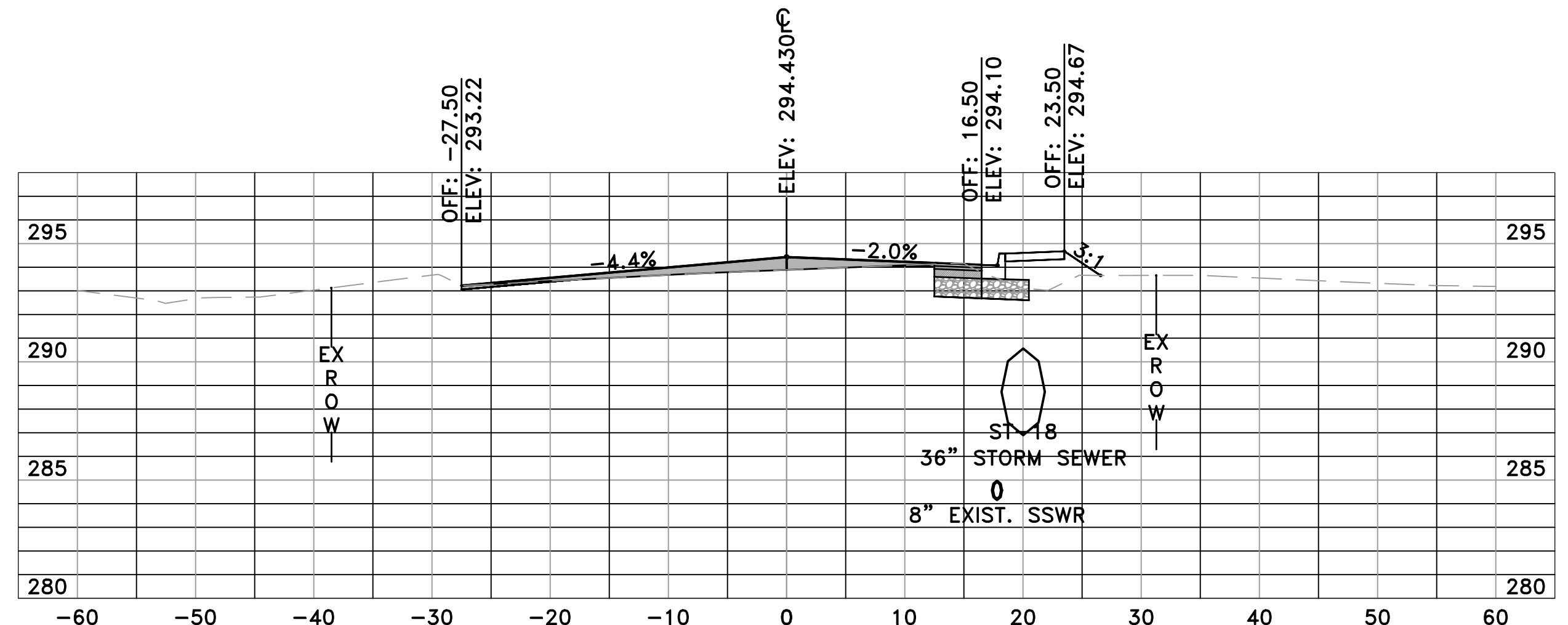
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



SEAL

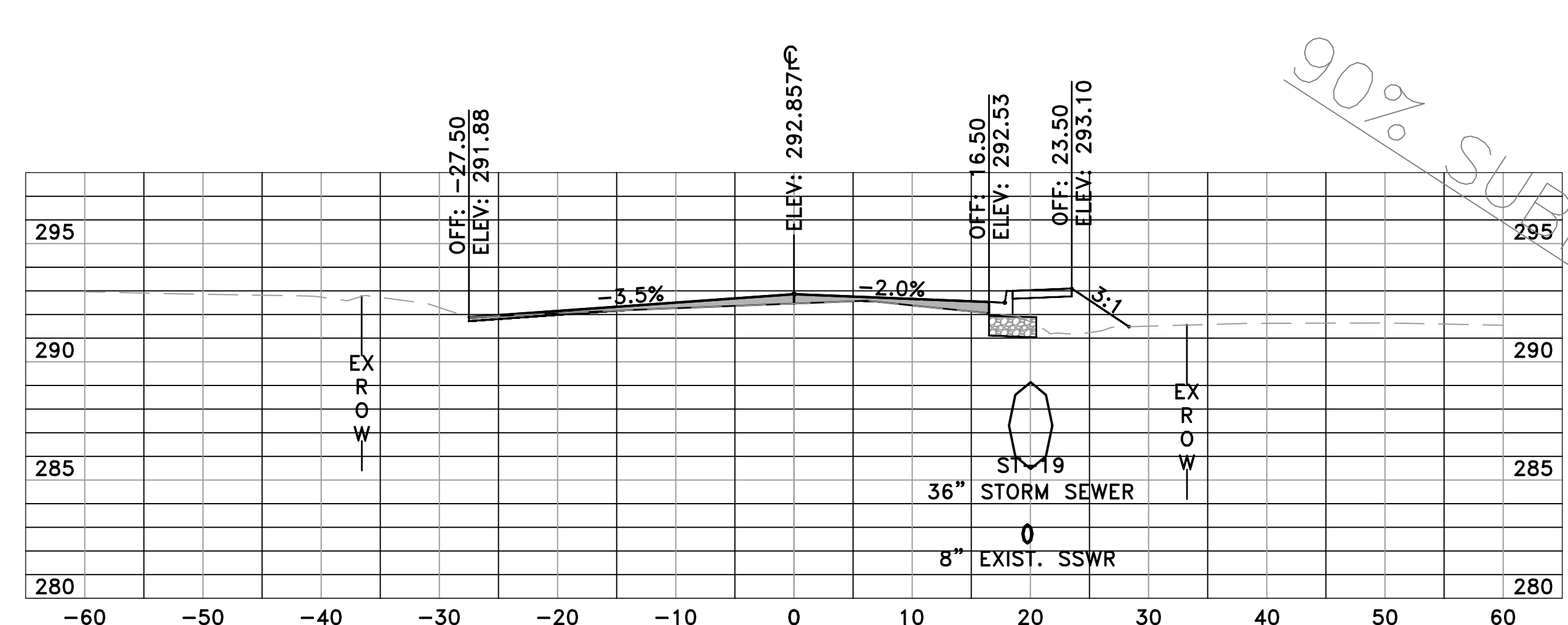
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
**X10**

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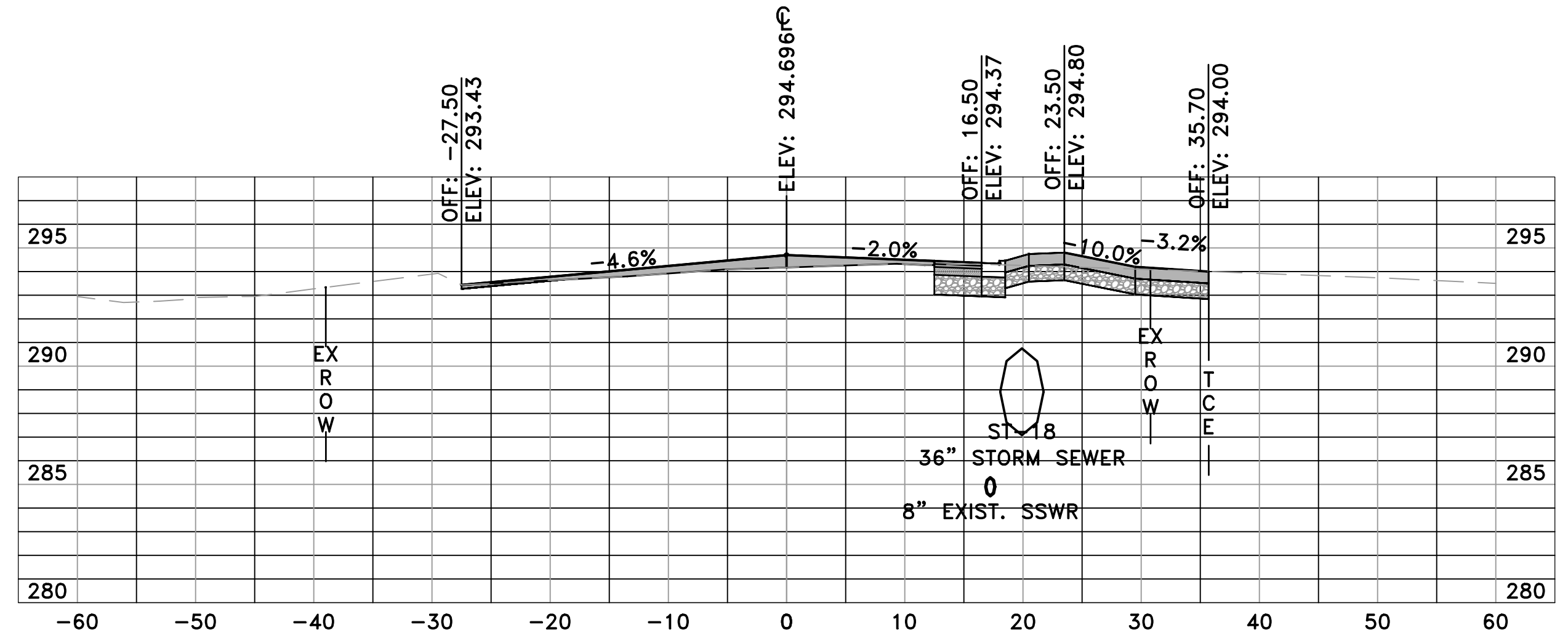
CHICOT RD  
 24+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	9.41	15.61	978.48
FILL	10.31	7.07	2281.89



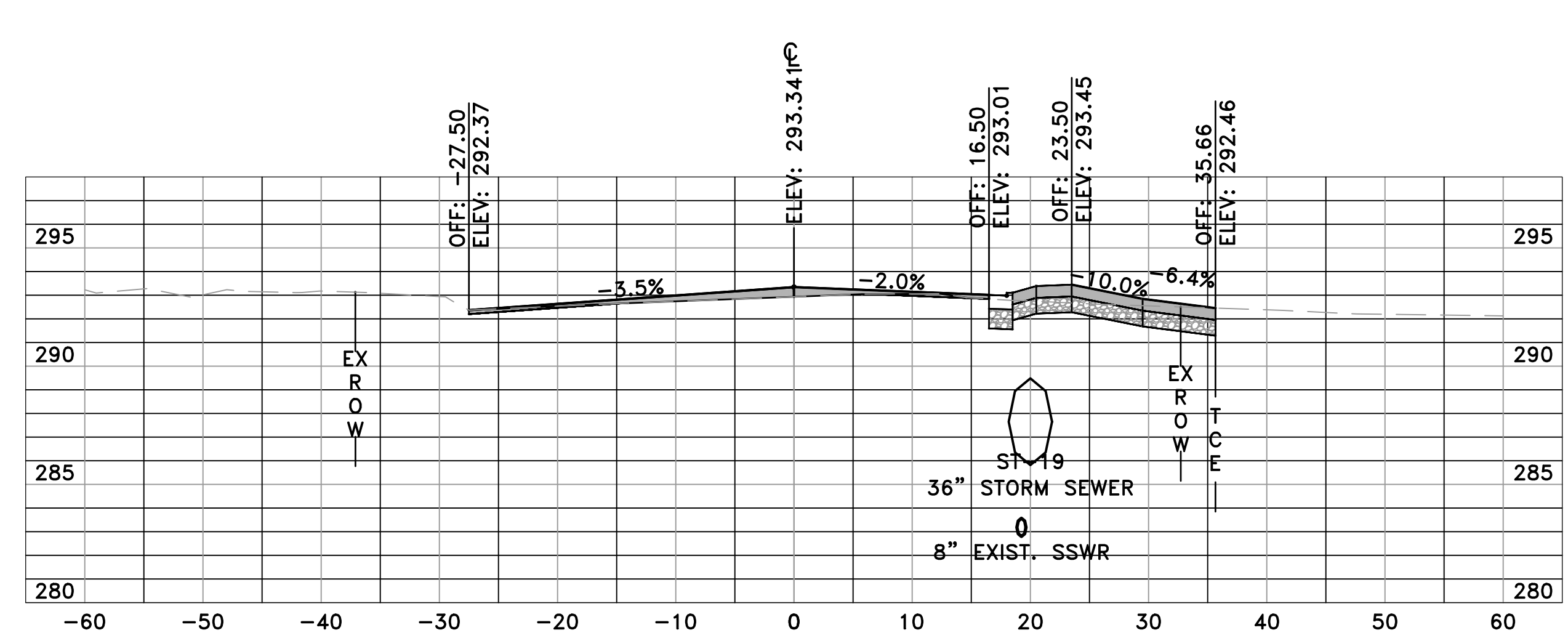
CHICOT RD  
 25+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	5.81	10.87	1018.04
FILL	12.93	7.38	2313.96



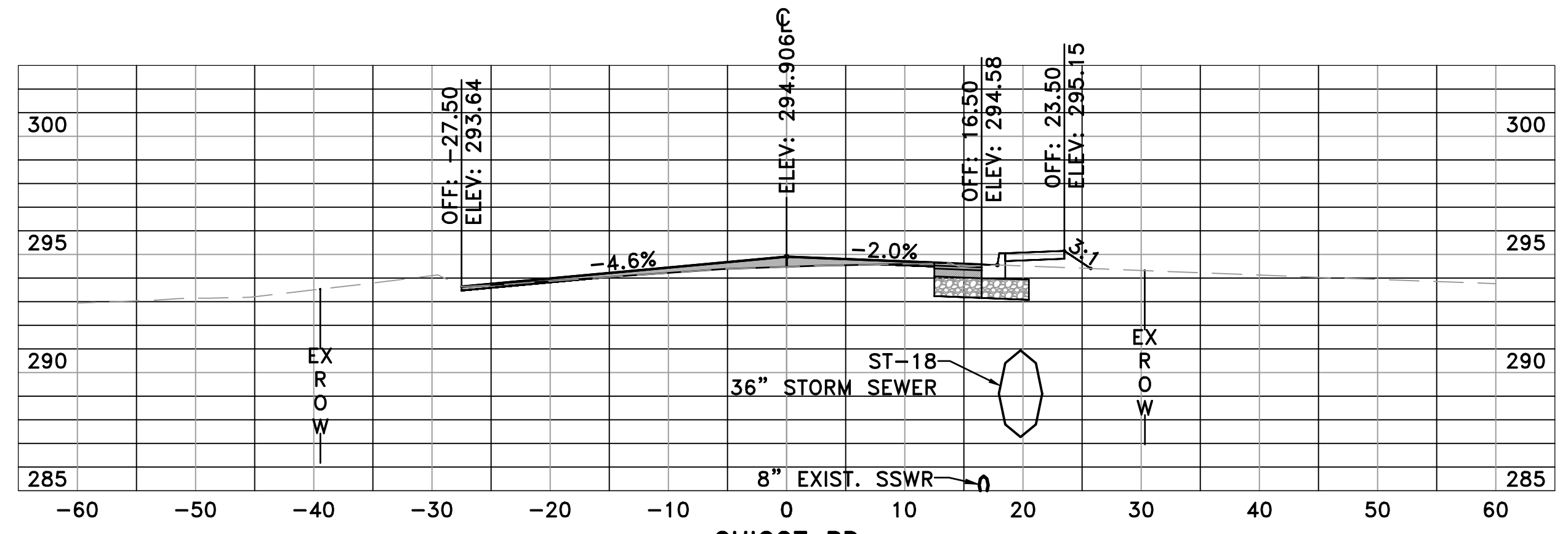
CHICOT RD  
 23+74.84

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	24.08	16.70	962.87
FILL	4.86	4.21	2274.82



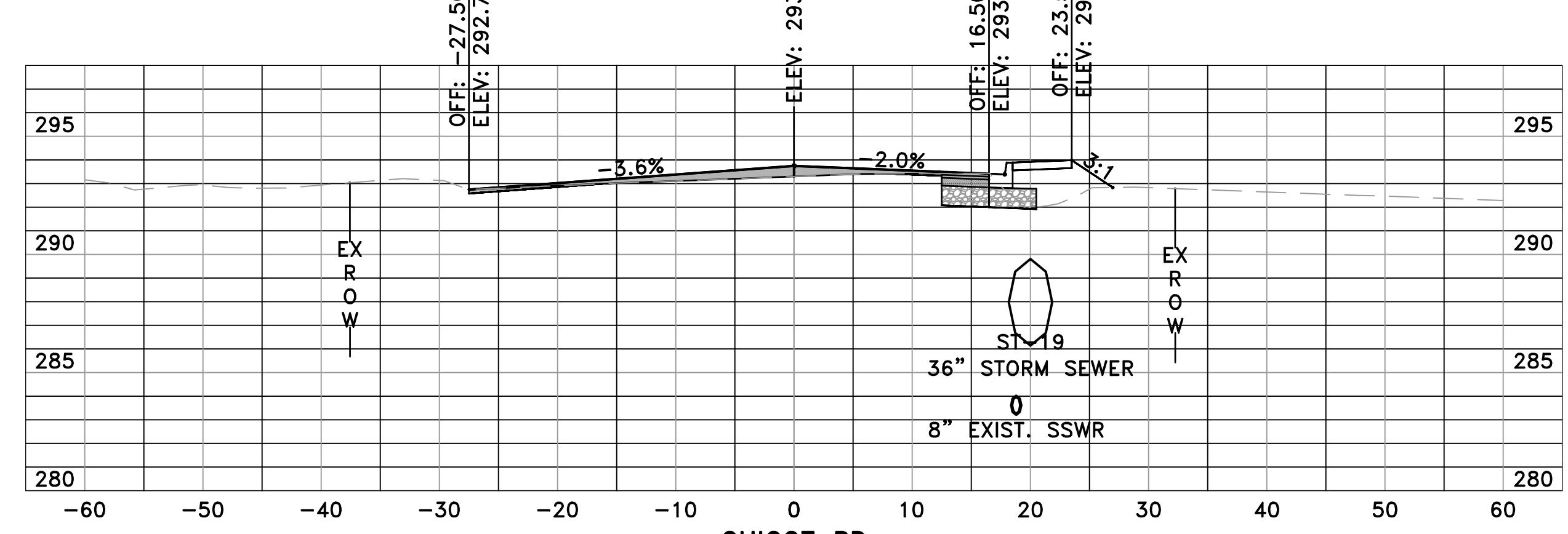
CHICOT RD  
 24+74.23

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	16.97	11.65	1007.17
FILL	2.53	5.71	2306.58



CHICOT RD  
 23+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	12.22	20.15	946.17
FILL	4.30	3.80	2270.61



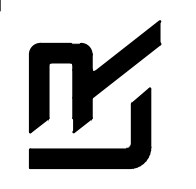
CHICOT RD  
 24+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	9.00	17.05	995.52
FILL	10.19	18.98	2300.87

REVISIONS	DATE

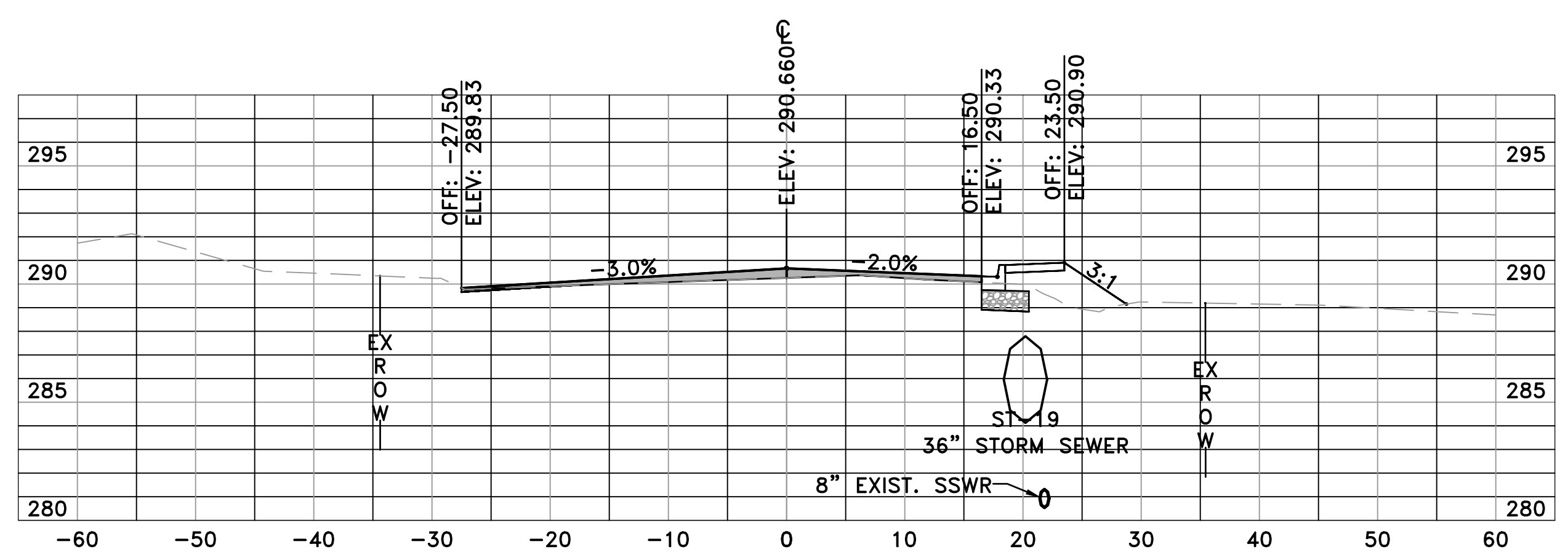
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (11)

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



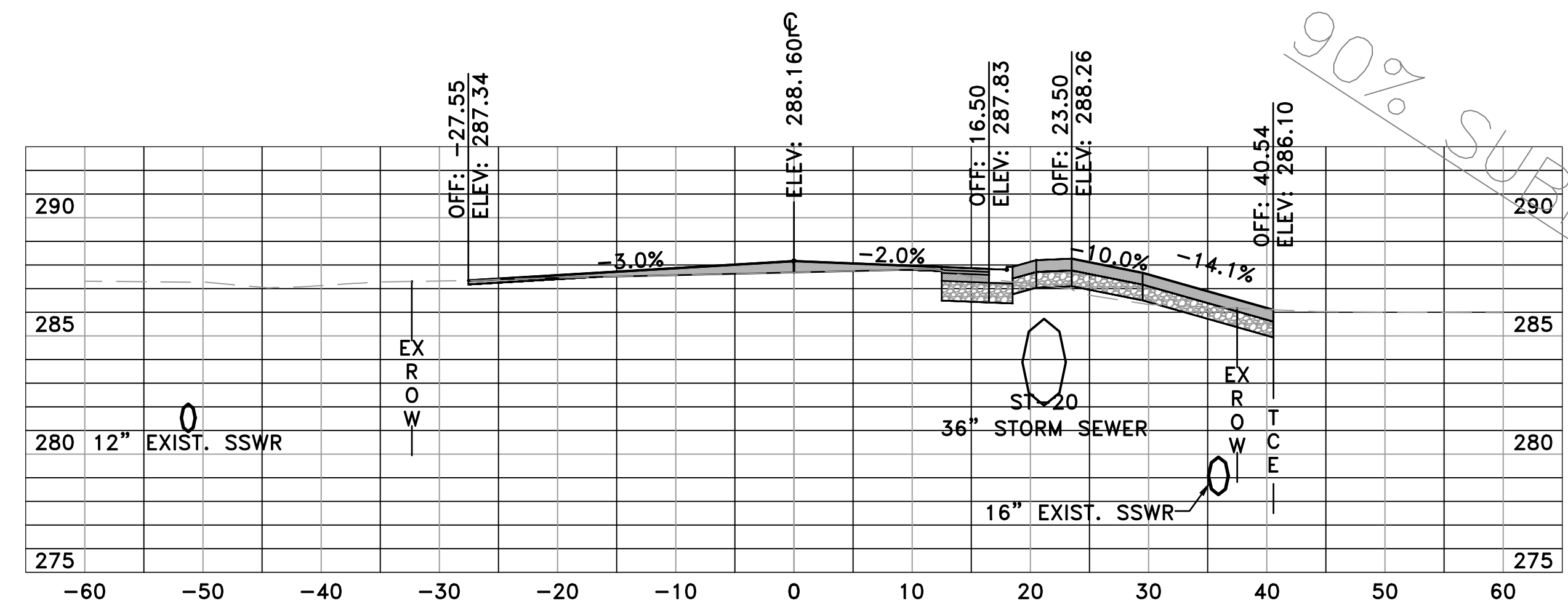
SEAL

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 DATE  
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X11



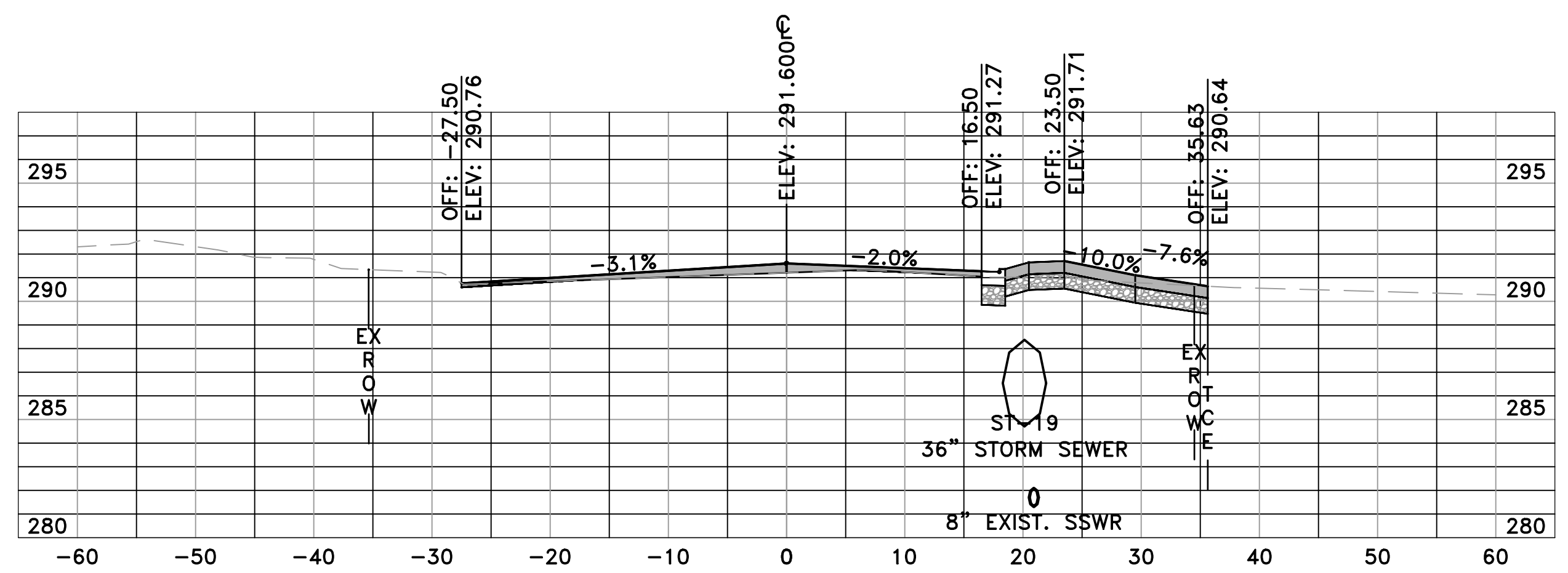
CHICOT RD  
 26+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	5.08	16.72	1059.61
FILL	11.96	11.89	2341.09



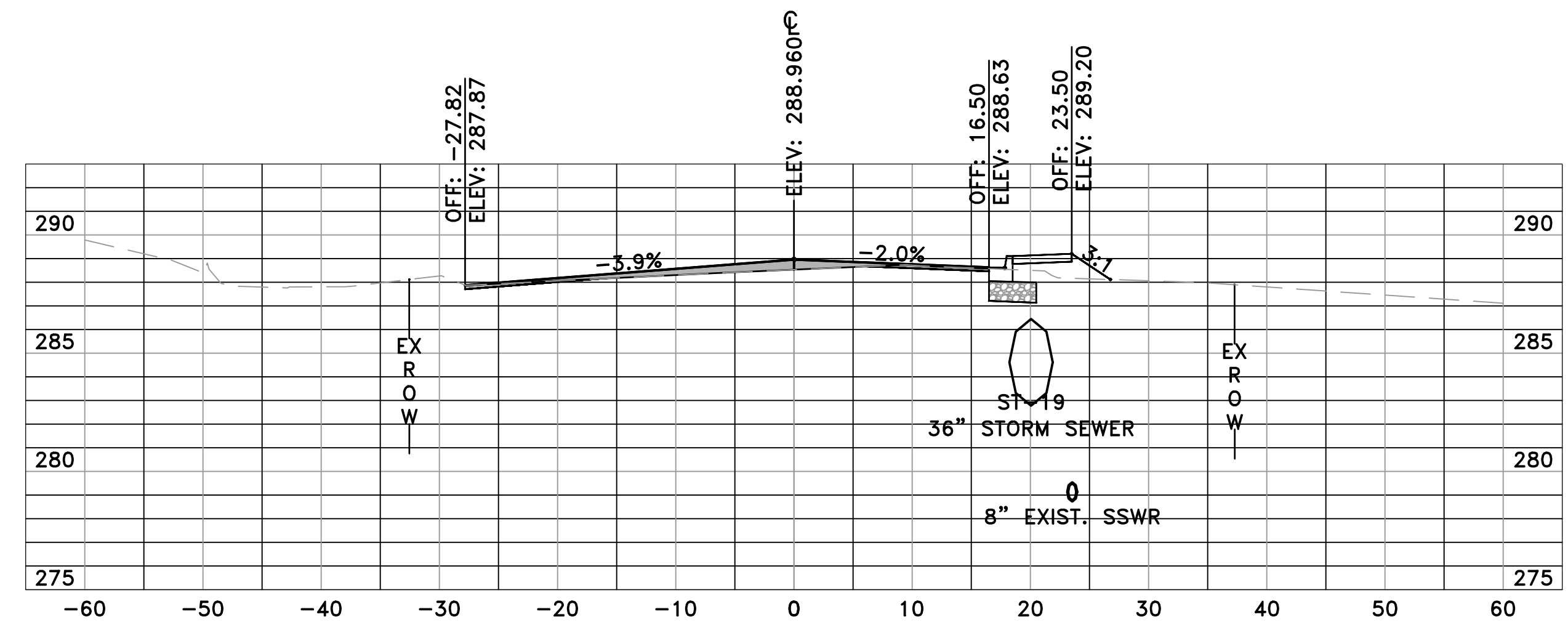
CHICOT RD  
 27+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	13.81	19.64	1103.29
FILL	5.46	10.80	2390.28



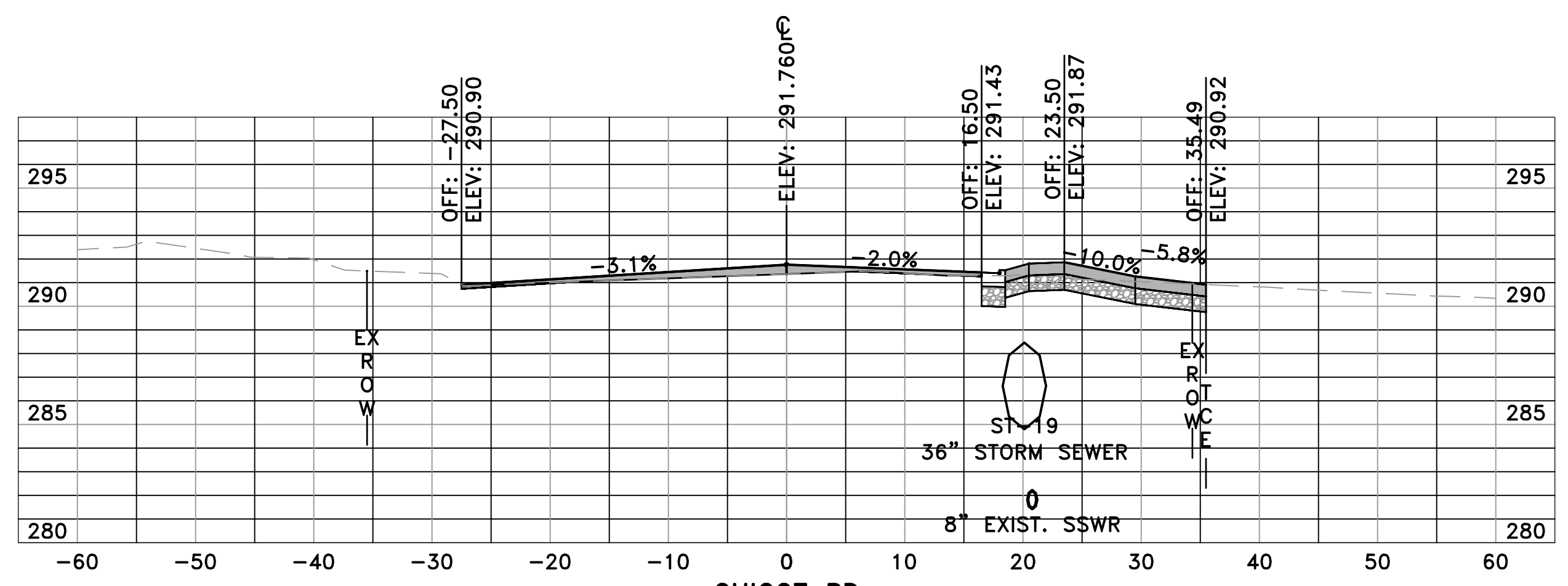
CHICOT RD  
 25+56.73

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	15.78	4.04	1042.89
FILL	2.87	0.70	2329.20



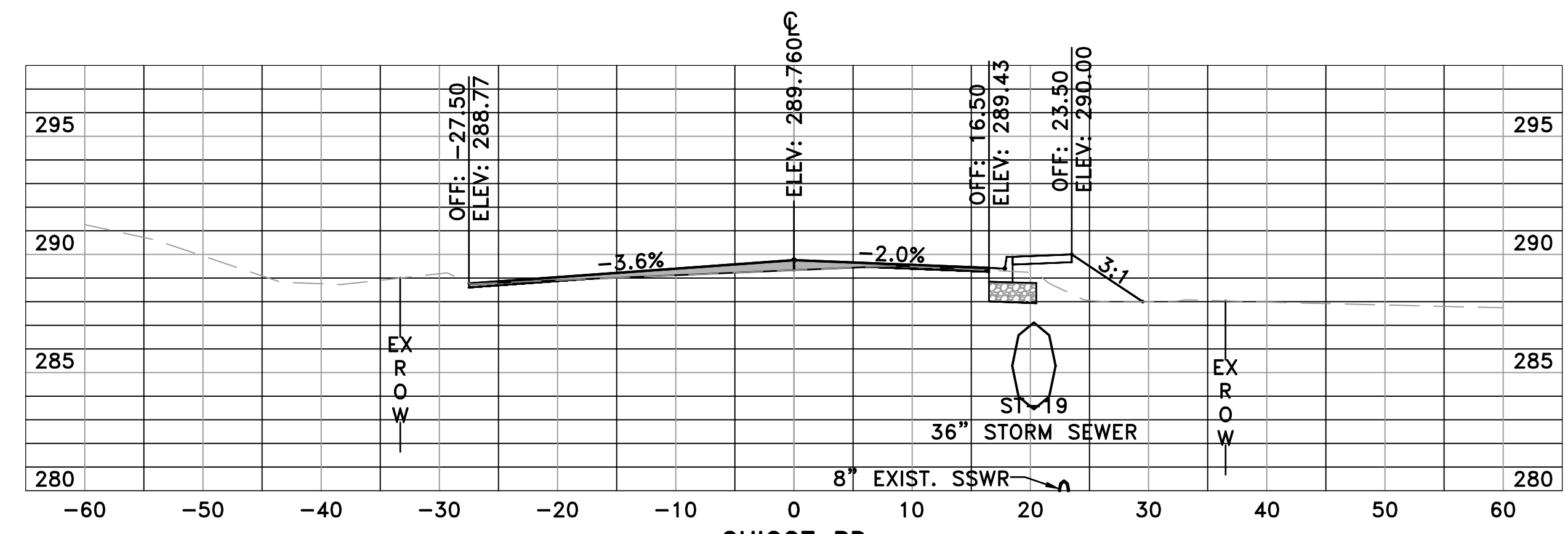
CHICOT RD  
 27+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.40	13.09	1083.65
FILL	6.21	16.53	2379.47



CHICOT RD  
 25+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	16.66	20.81	1038.85
FILL	2.78	14.54	2328.50



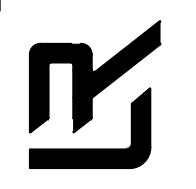
CHICOT RD  
 26+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	6.74	10.95	1070.56
FILL	11.64	21.86	2362.94

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (12)

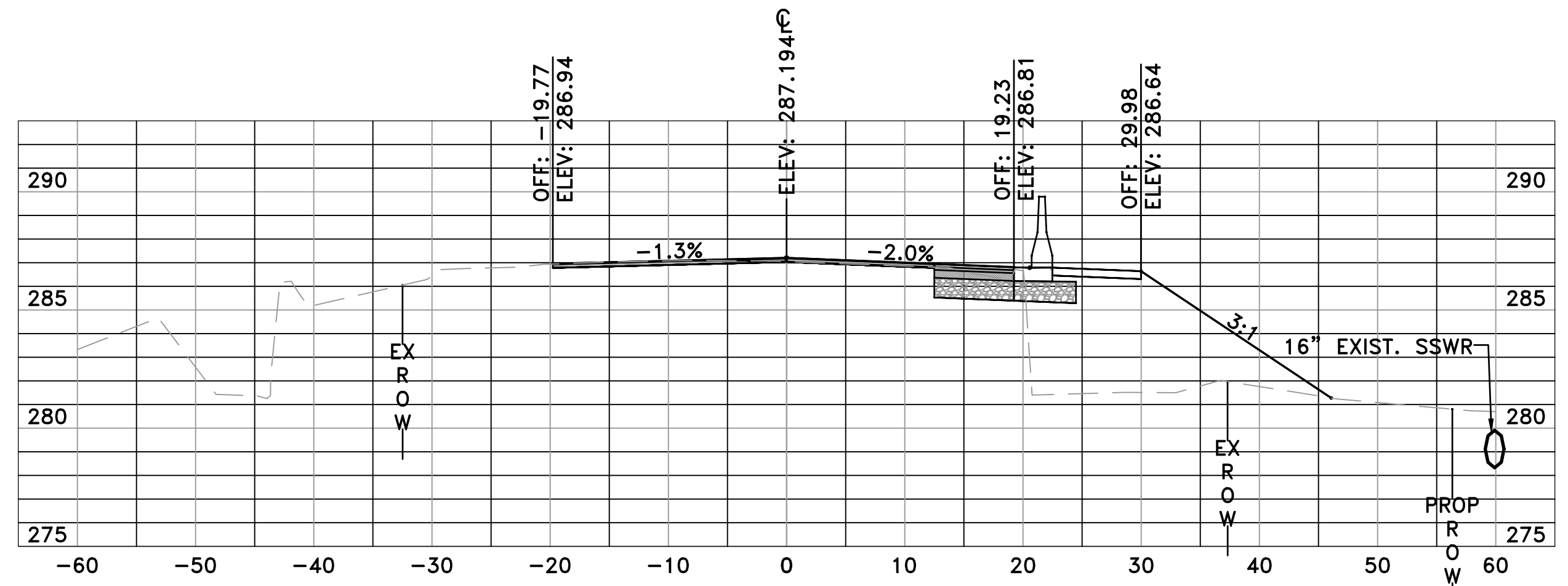
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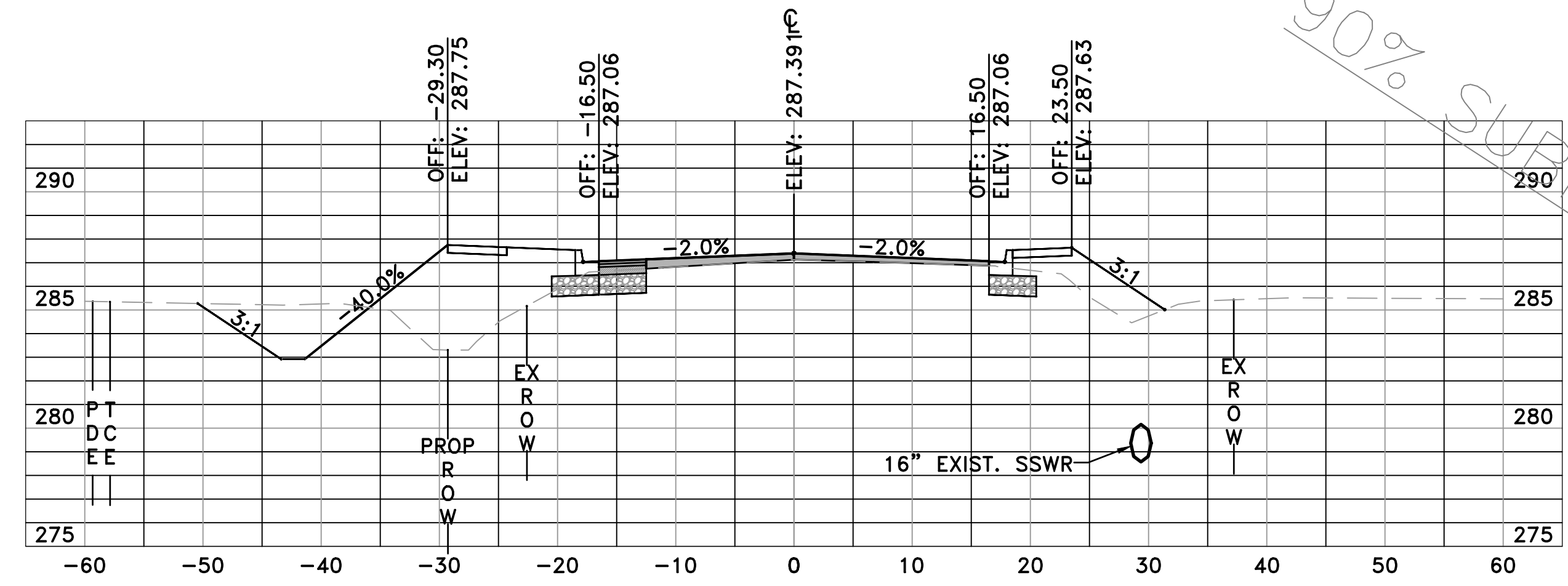
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 PROJECT NO.  
 CLR 07-17-ST-357  
 SHEET NO.  
 X12

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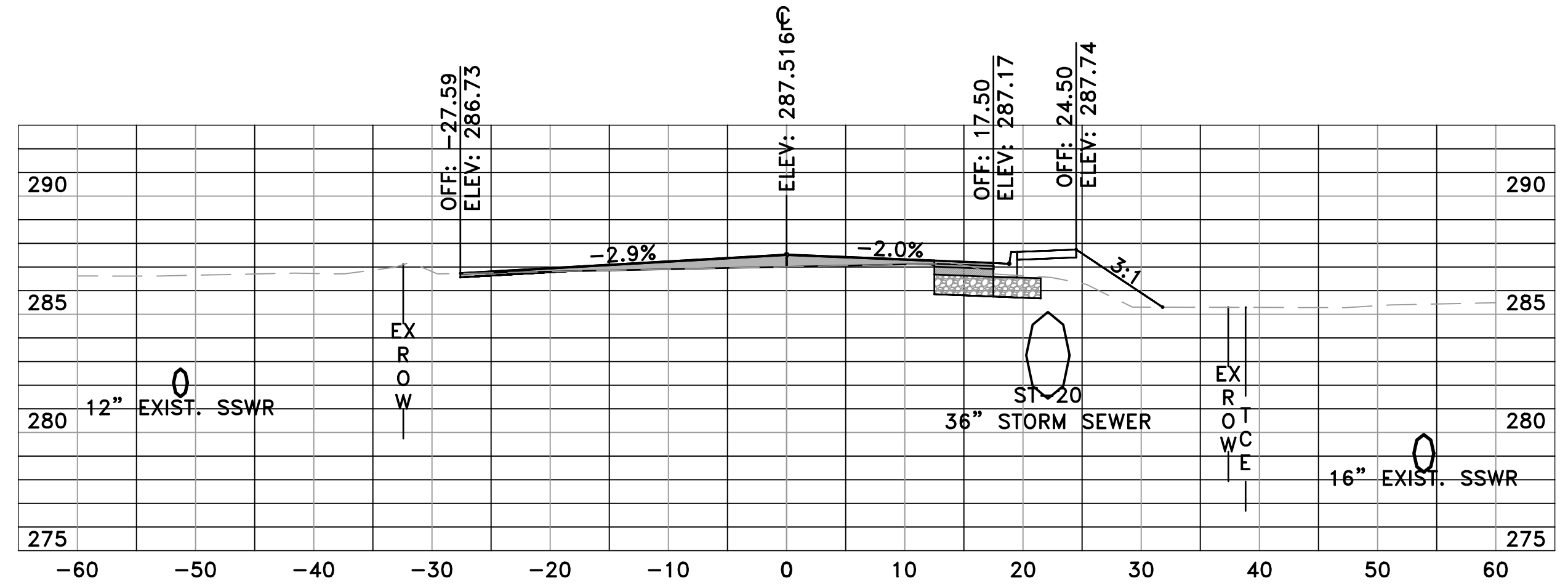
CHICOT RD  
 28+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	12.28	21.20	1147.37
FILL	79.51	89.42	2500.10



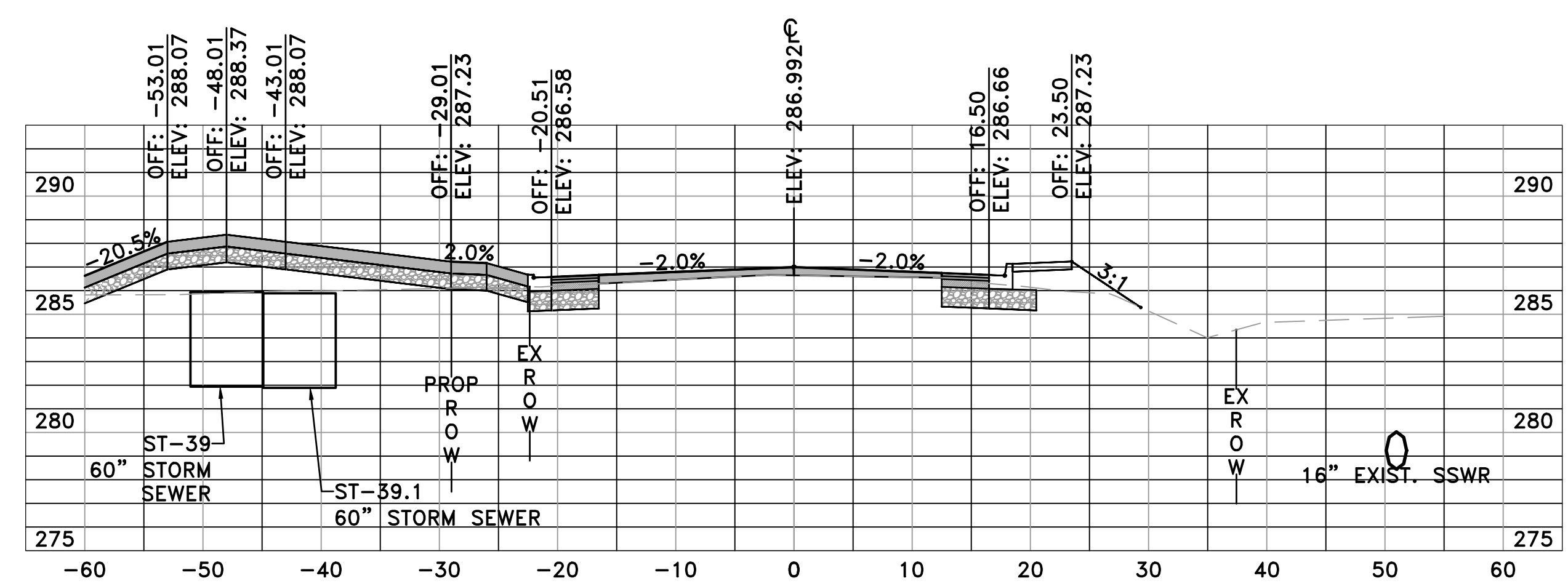
CHICOT RD  
 30+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	30.62	52.29	1234.96
FILL	56.54	76.62	3240.02



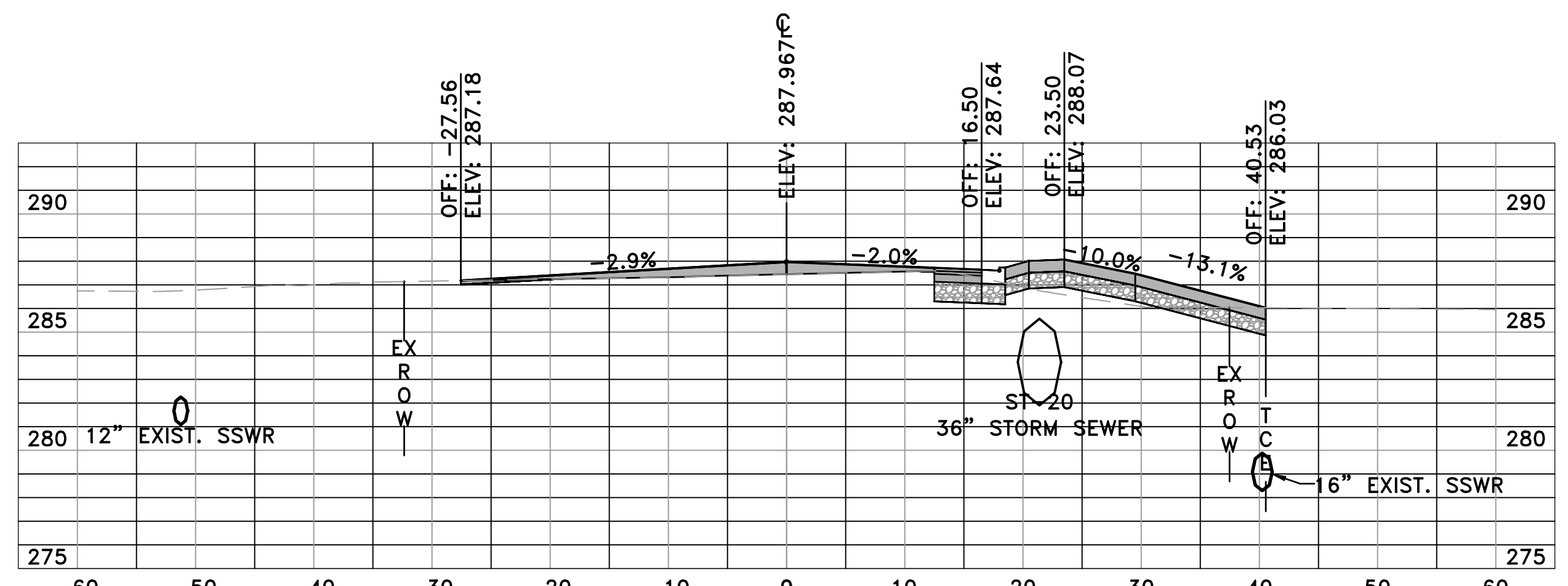
CHICOT RD  
 28+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	10.62	16.82	1126.17
FILL	17.07	17.44	2410.68



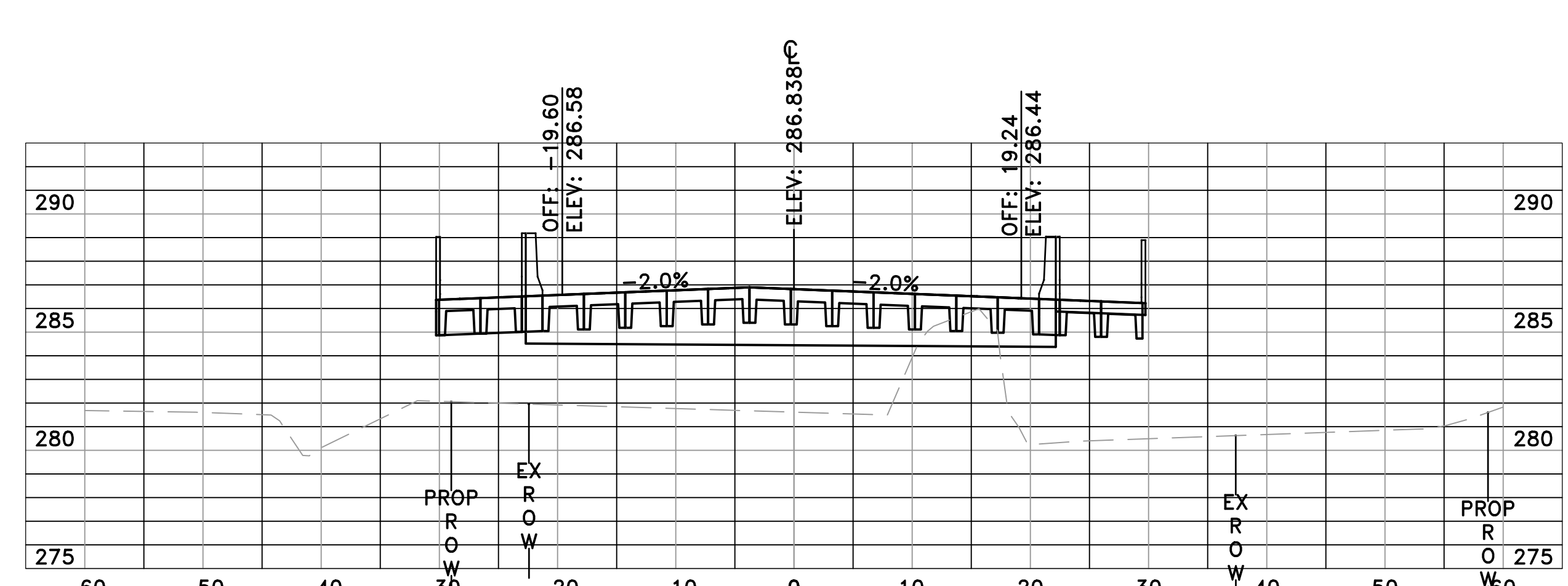
CHICOT RD  
 29+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	25.85	23.93	1182.68
FILL	26.21	306.97	3163.40



CHICOT RD  
 27+62.07

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	13.32	6.06	1109.35
FILL	7.76	2.96	2393.23



CHICOT RD  
 29+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	11.37	1158.74
FILL	305.33	356.33	2856.43

REVISIONS	DATE

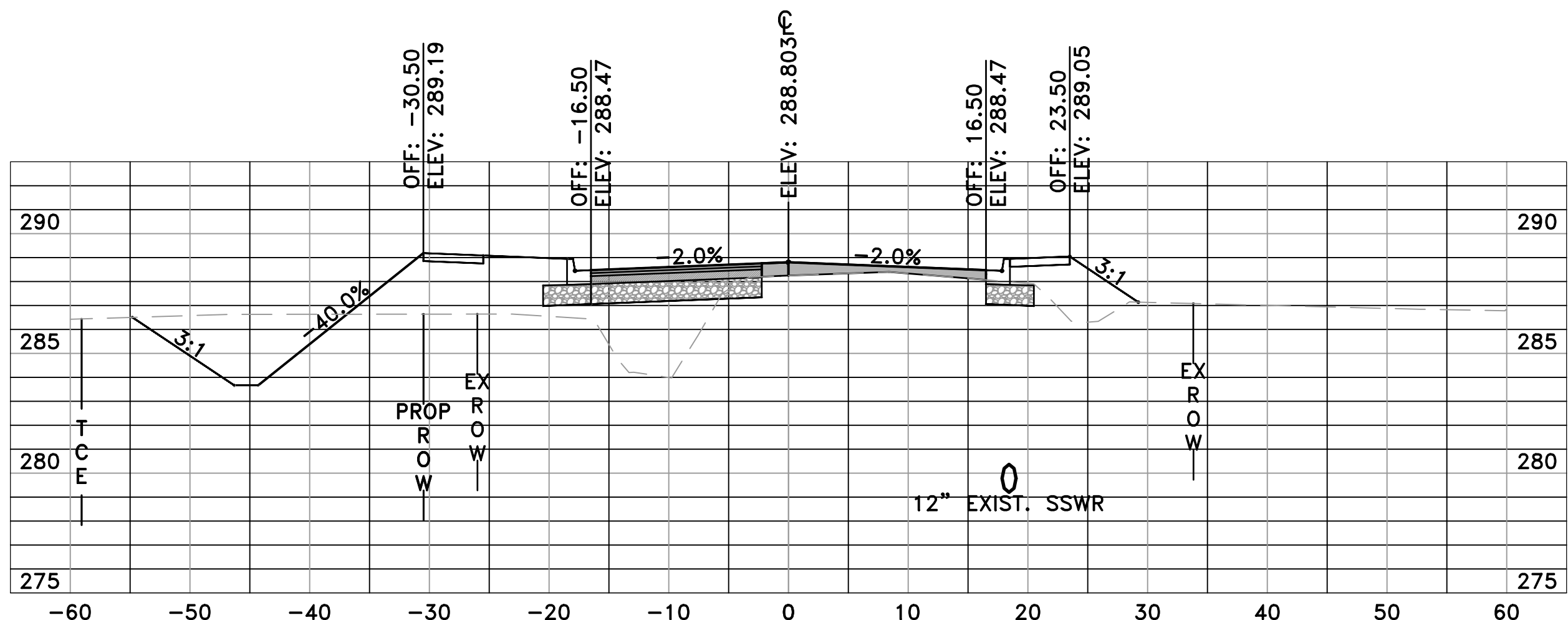
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CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (13)

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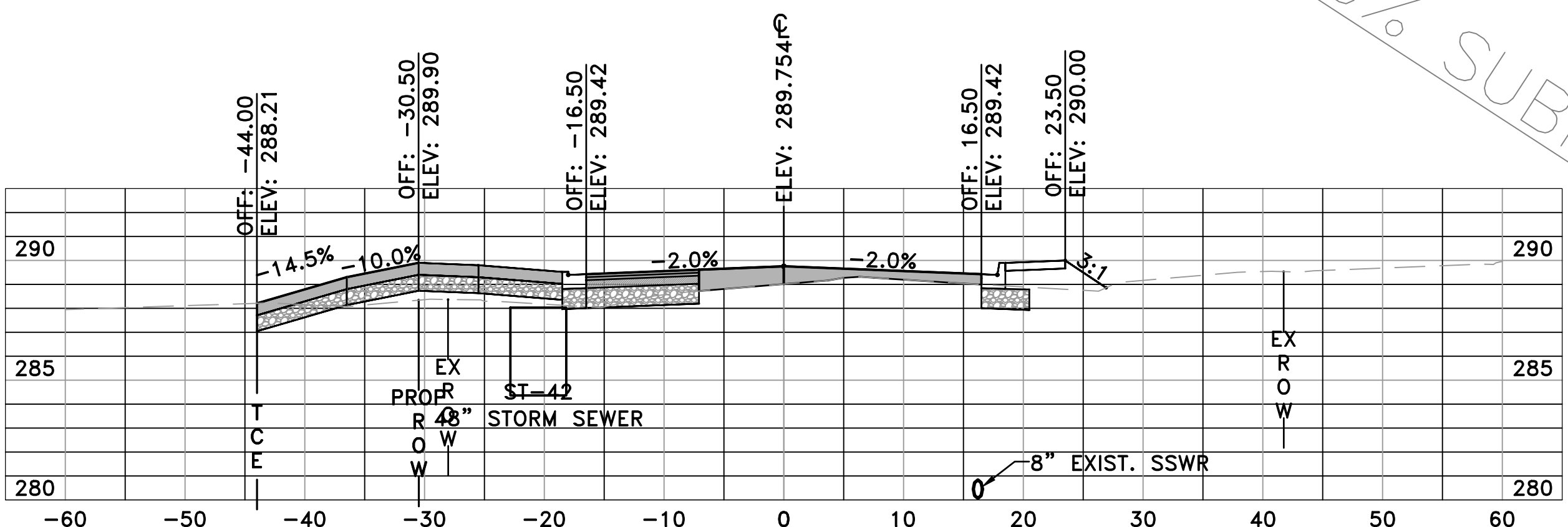
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 SHEET NO.  
 X13



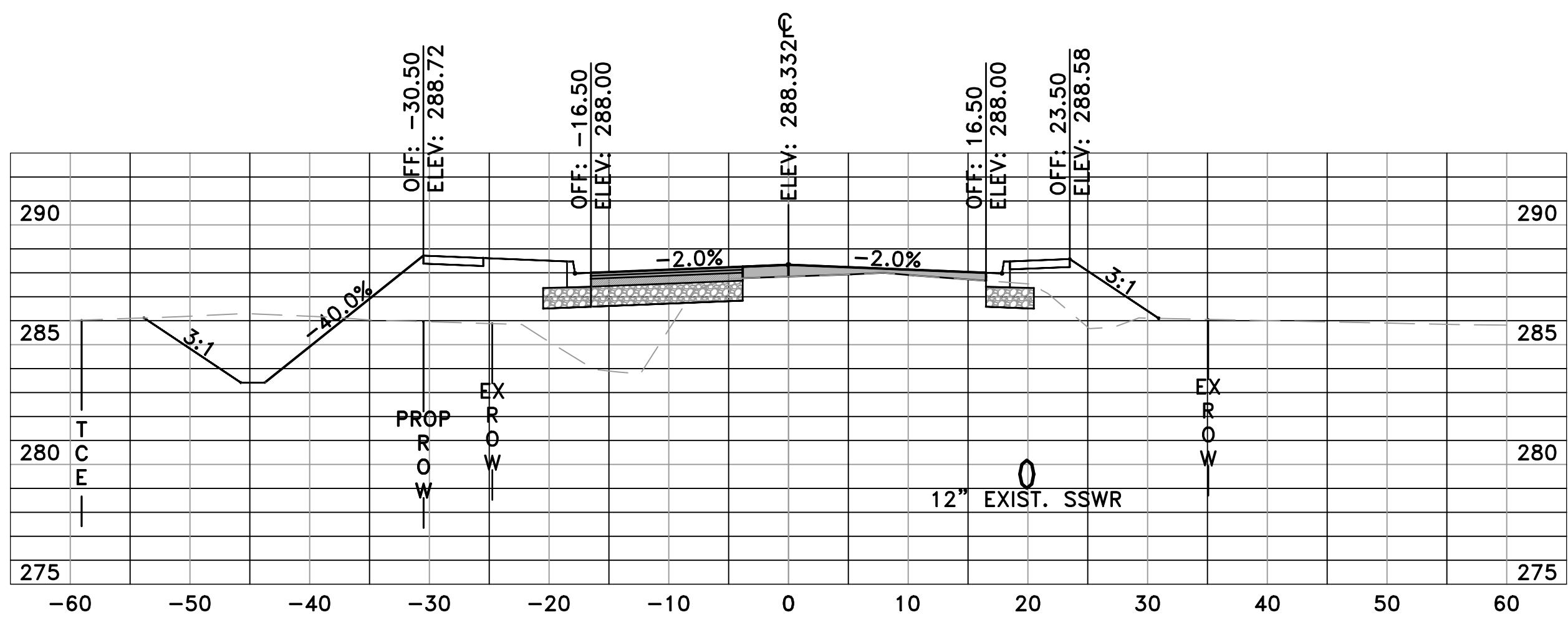
CHICOT RD  
 31+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	35.94	65.21	1410.39
FILL	73.60	139.94	3634.63



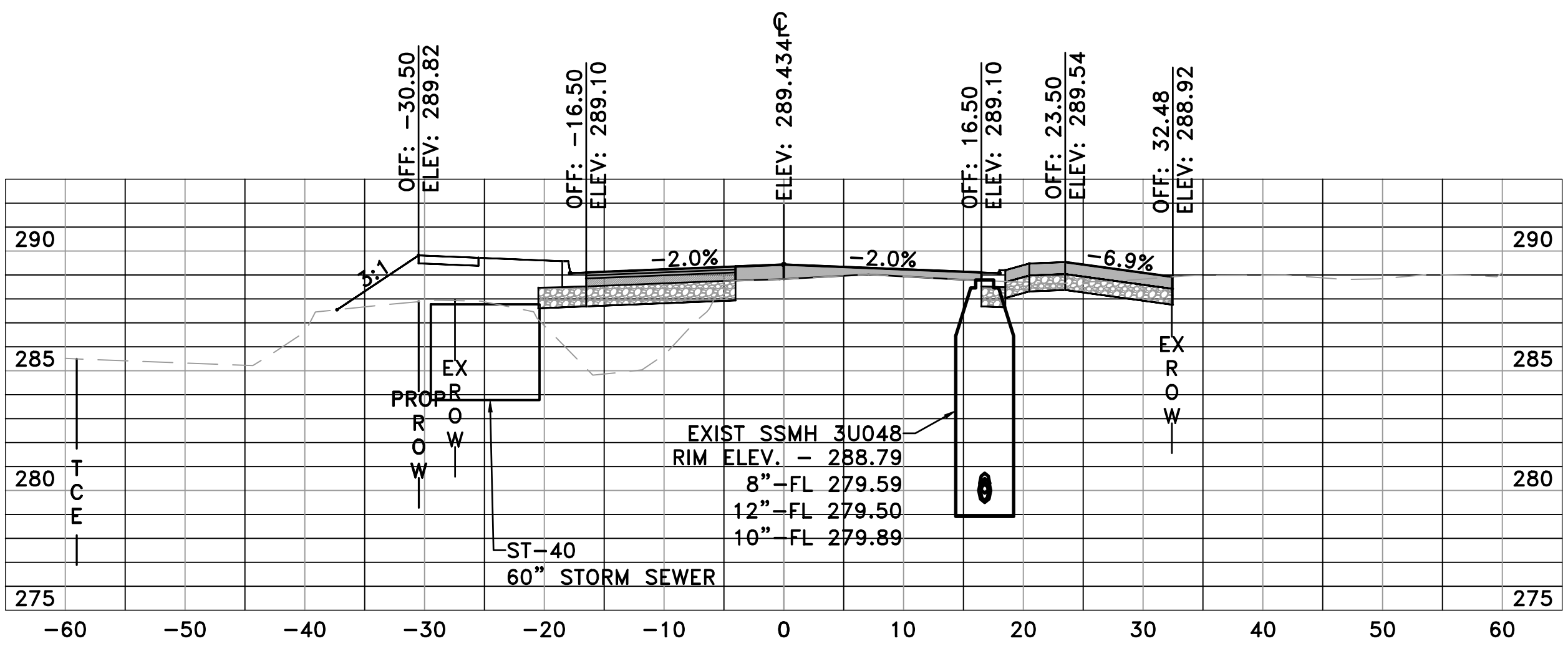
CHICOT RD  
 32+32.80

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	24.43	20.47	1487.78
FILL	18.49	34.94	3815.66



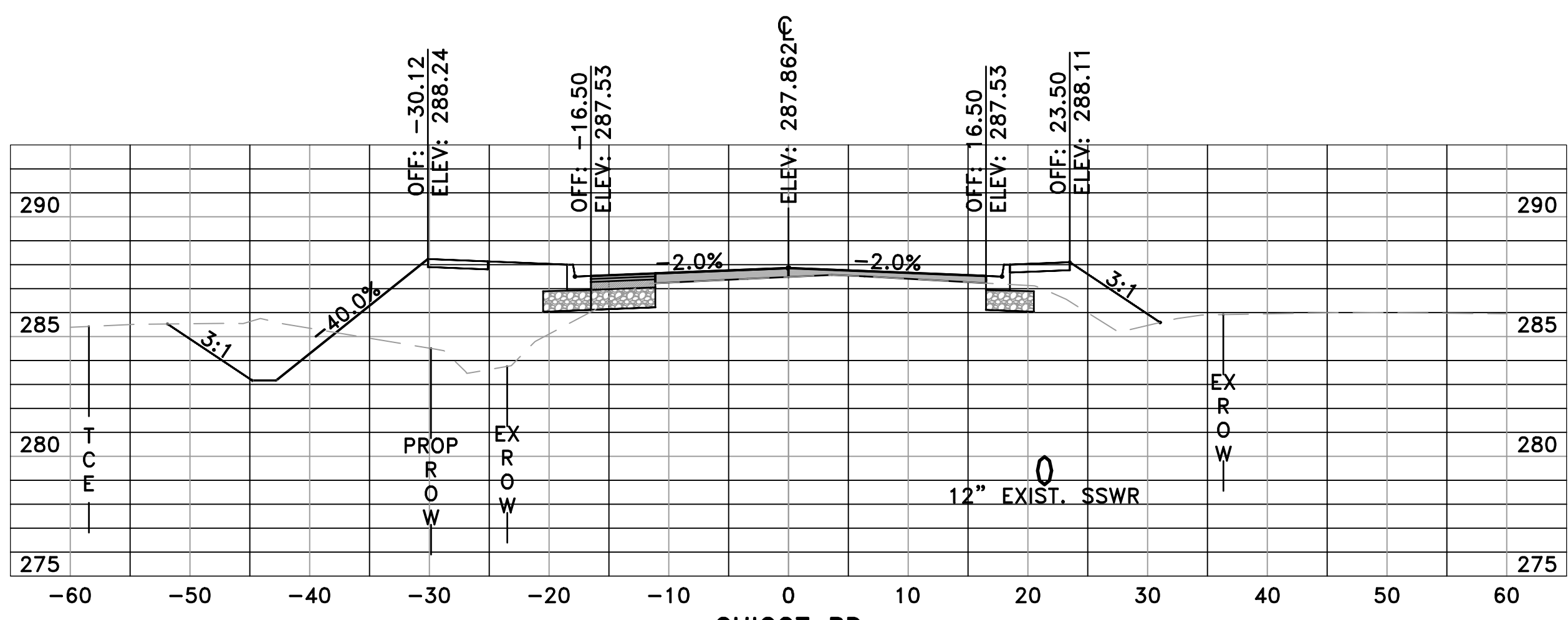
CHICOT RD  
 31+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	34.48	56.89	1345.18
FILL	77.54	137.05	3494.68



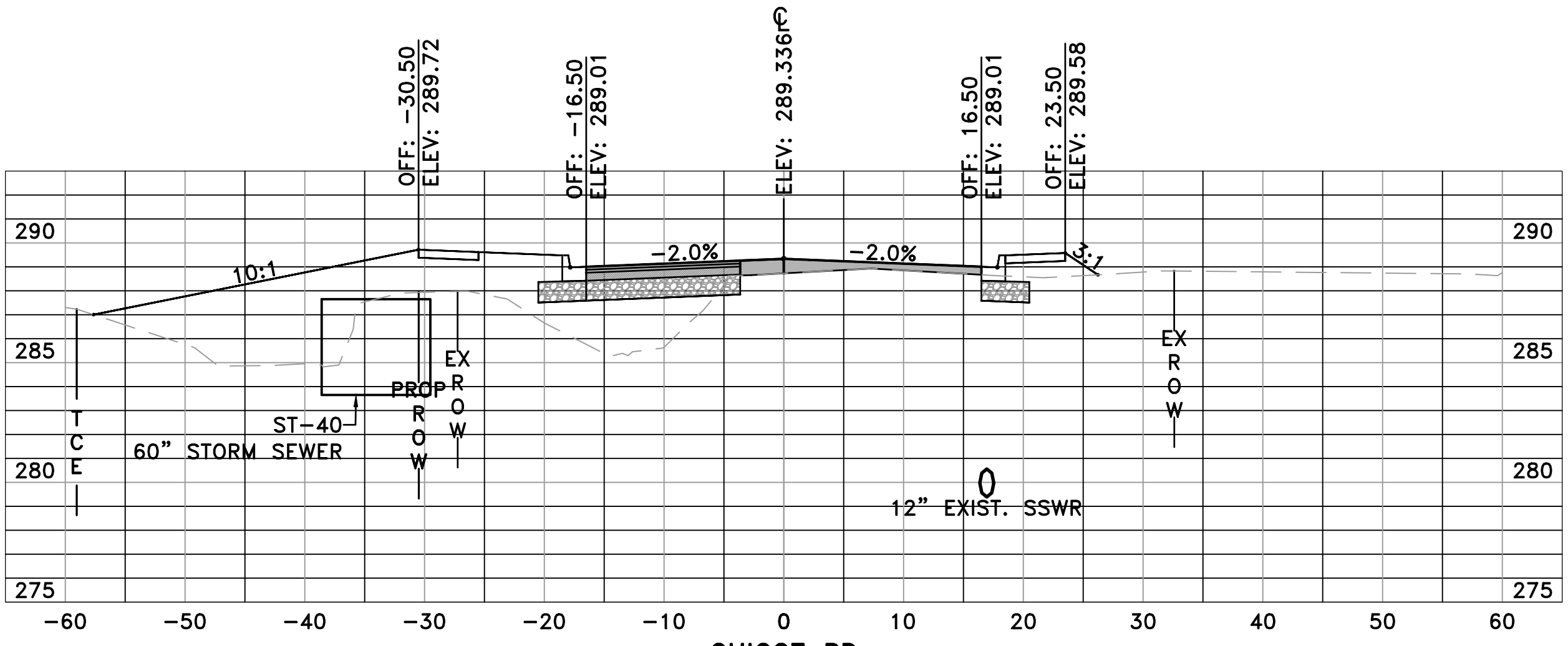
CHICOT RD  
 32+08.04

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	20.21	5.87	1467.31
FILL	57.70	18.20	3780.72



CHICOT RD  
 30+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	26.96	53.32	1288.28
FILL	70.48	117.61	3357.63



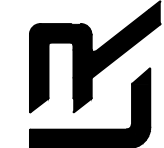
CHICOT RD  
 32+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	19.20	51.06	1461.44
FILL	64.53	127.89	3762.52

REVISIONS	DATE

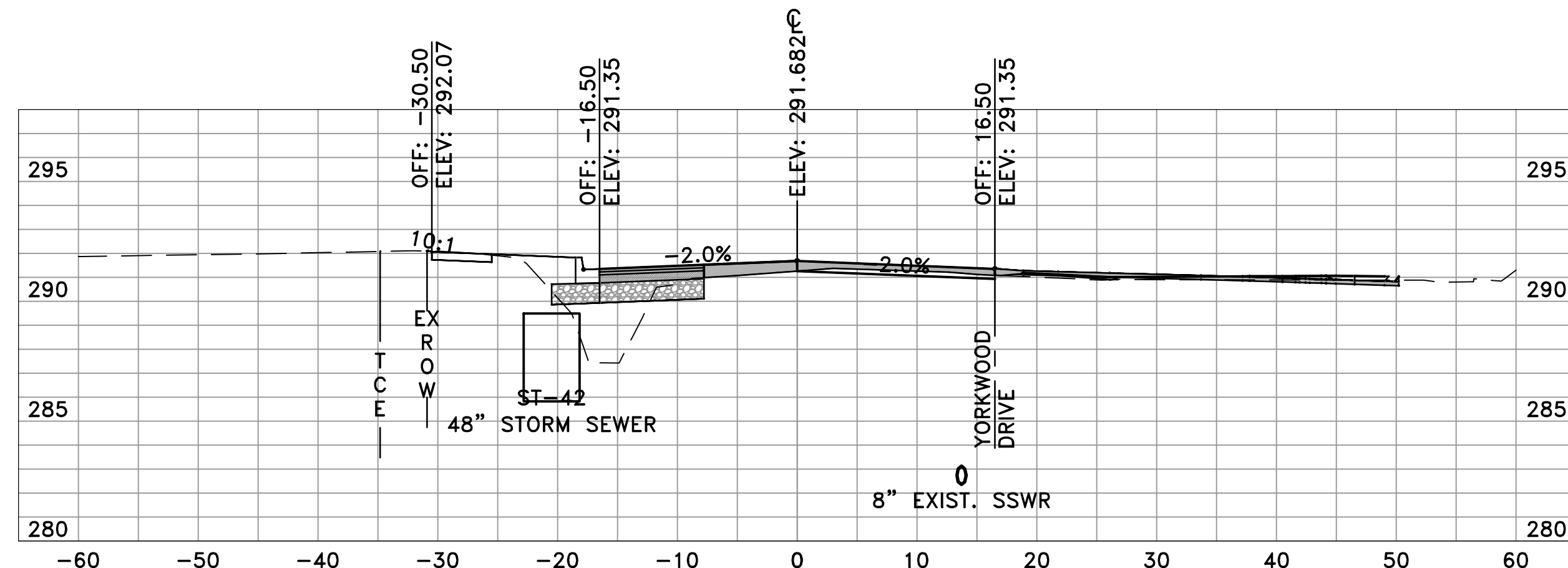
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (14)

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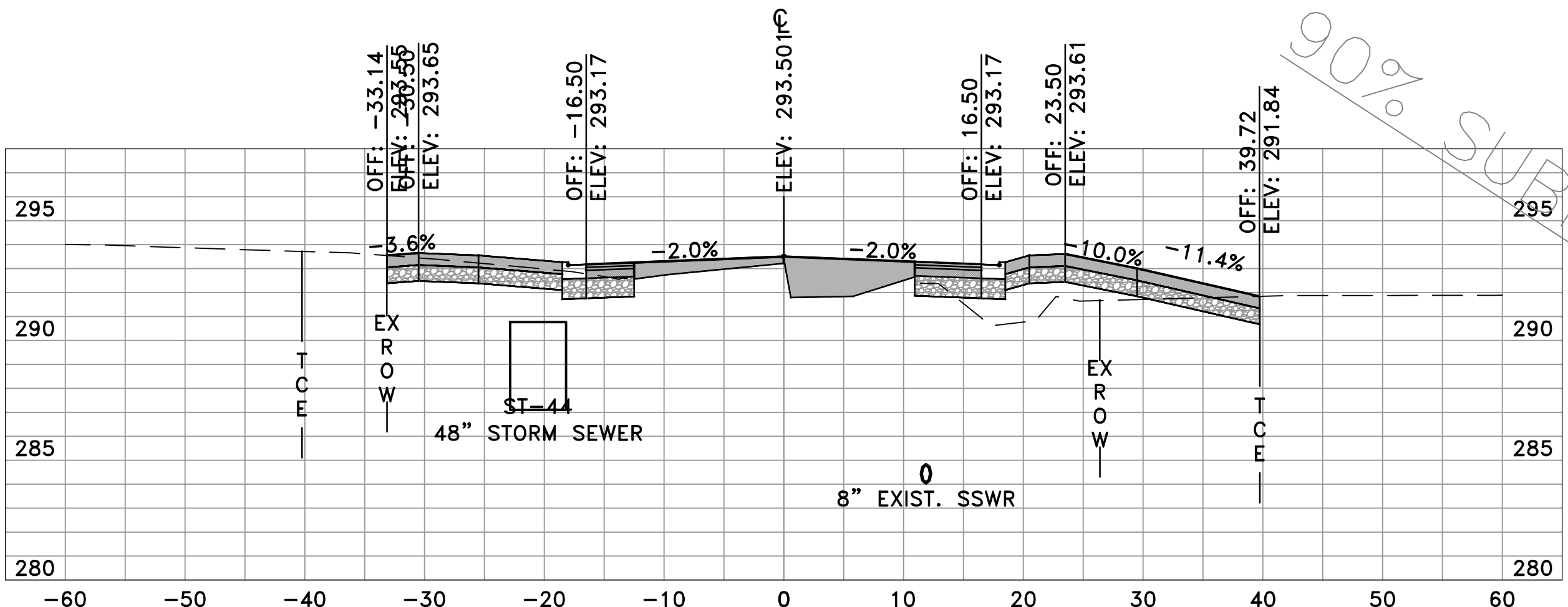
SEAL

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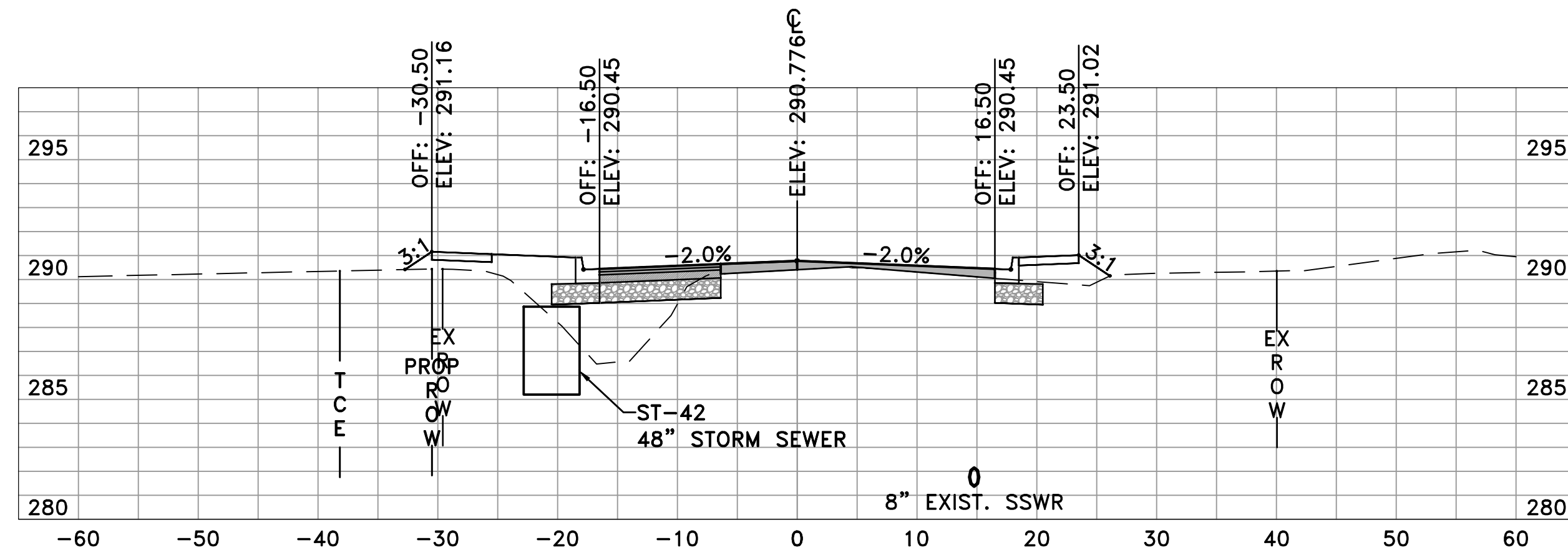
CHICOT RD  
 33+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	9.60	17.52	1543.86
FILL	18.03	49.94	3960.63



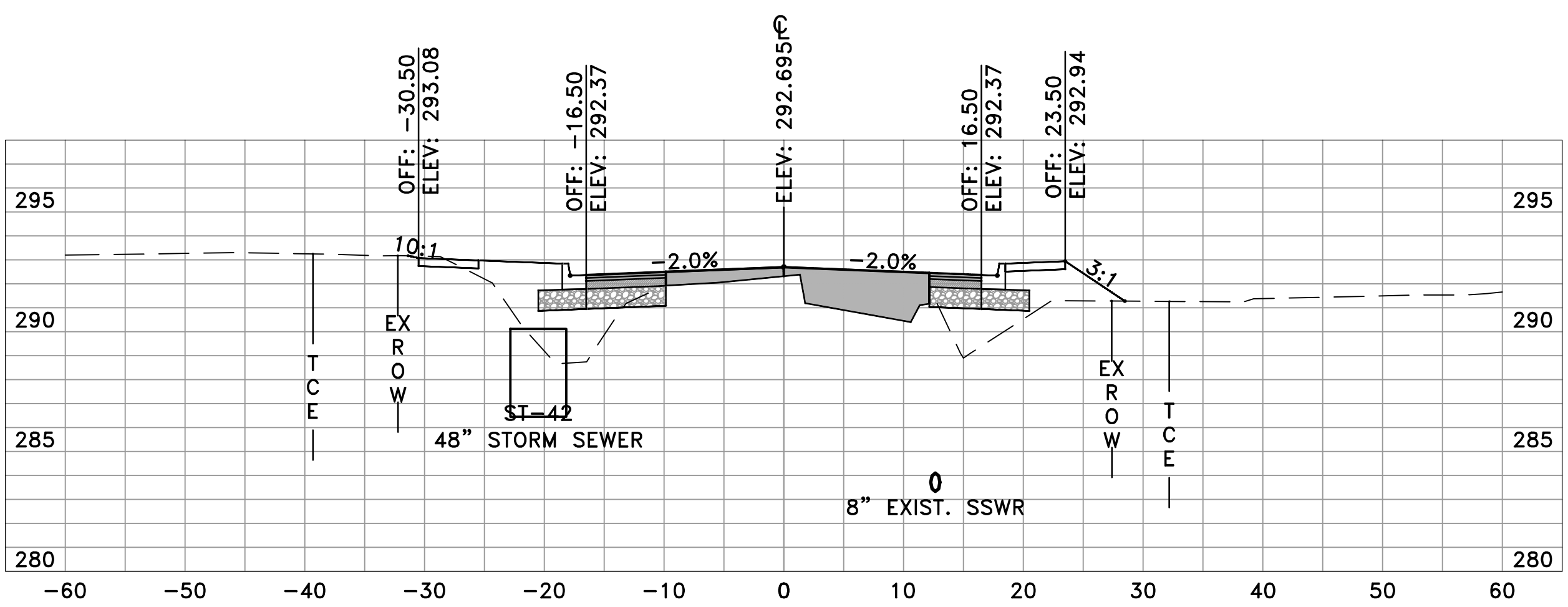
CHICOT RD  
 34+36.86

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	32.39	27.13	1624.87
FILL	28.49	59.27	4080.00



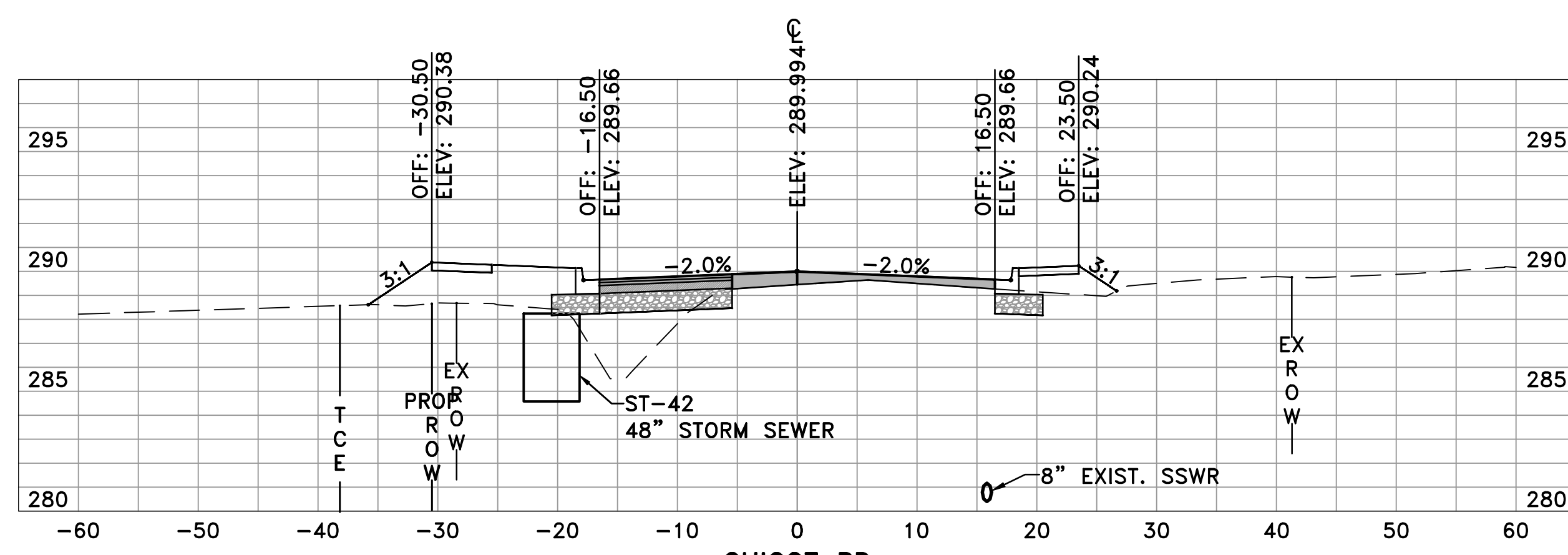
CHICOT RD  
 33+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	9.32	25.11	1526.34
FILL	35.91	74.84	3910.70



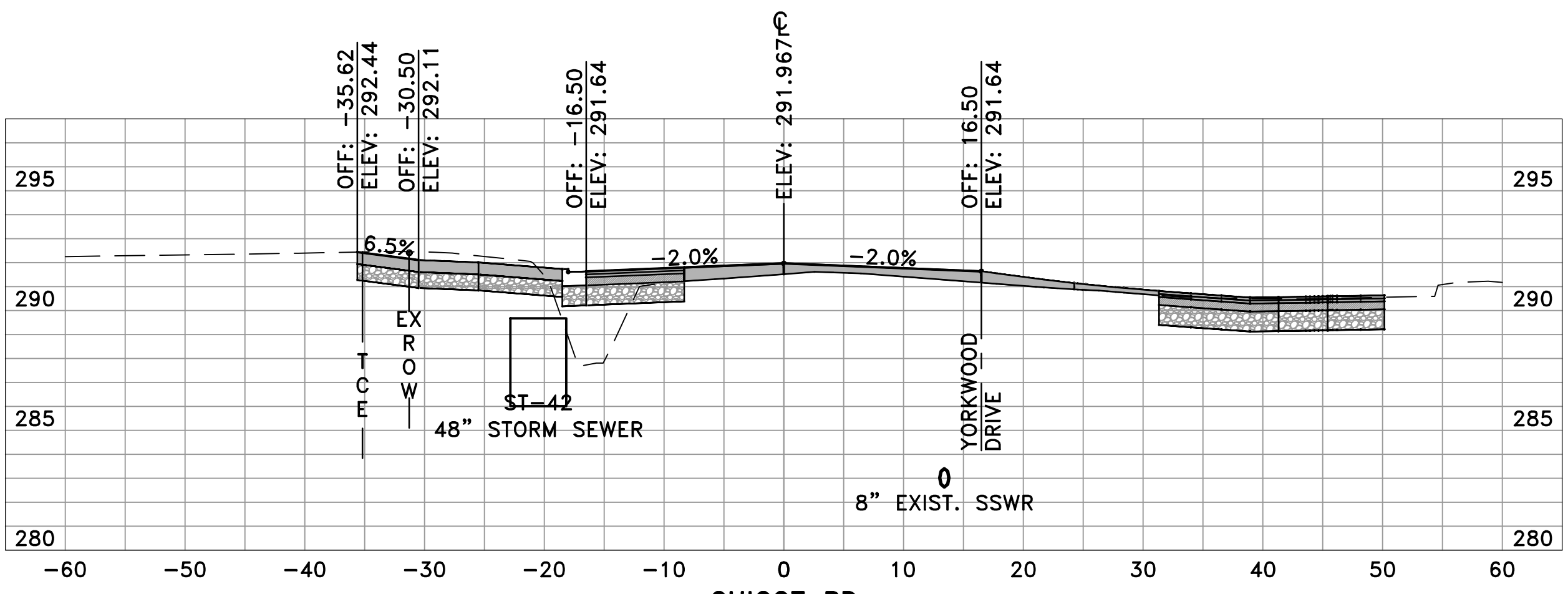
CHICOT RD  
 34+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.35	37.76	1597.74
FILL	58.34	50.30	4020.73



CHICOT RD  
 32+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	17.80	13.45	1501.23
FILL	44.92	20.20	3835.85



CHICOT RD  
 33+64.56

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	50.18	16.11	1559.97
FILL	18.30	9.79	3970.43

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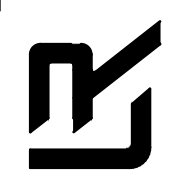


90% SUBMITTAL

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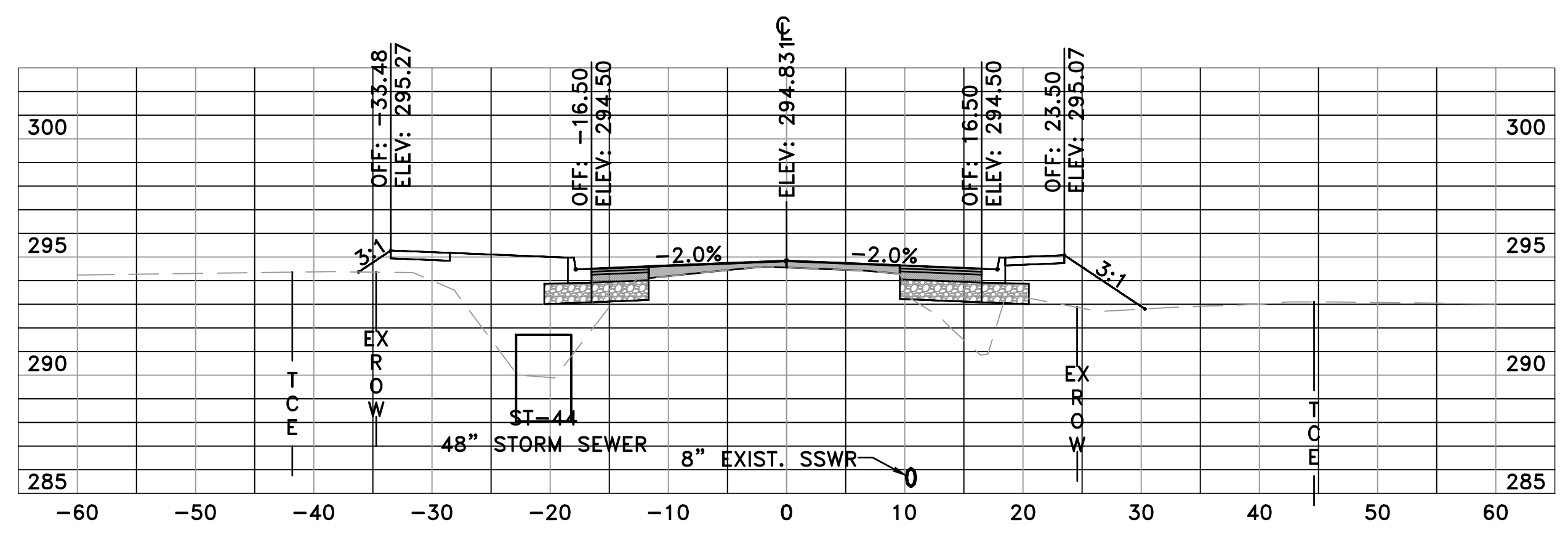
CITY OF LITTLE ROCK, ARKANSAS  
 CHICOT ROAD RECONSTRUCTION  
 CROSS SECTIONS (15)

DEPARTMENT OF PUBLIC WORKS  
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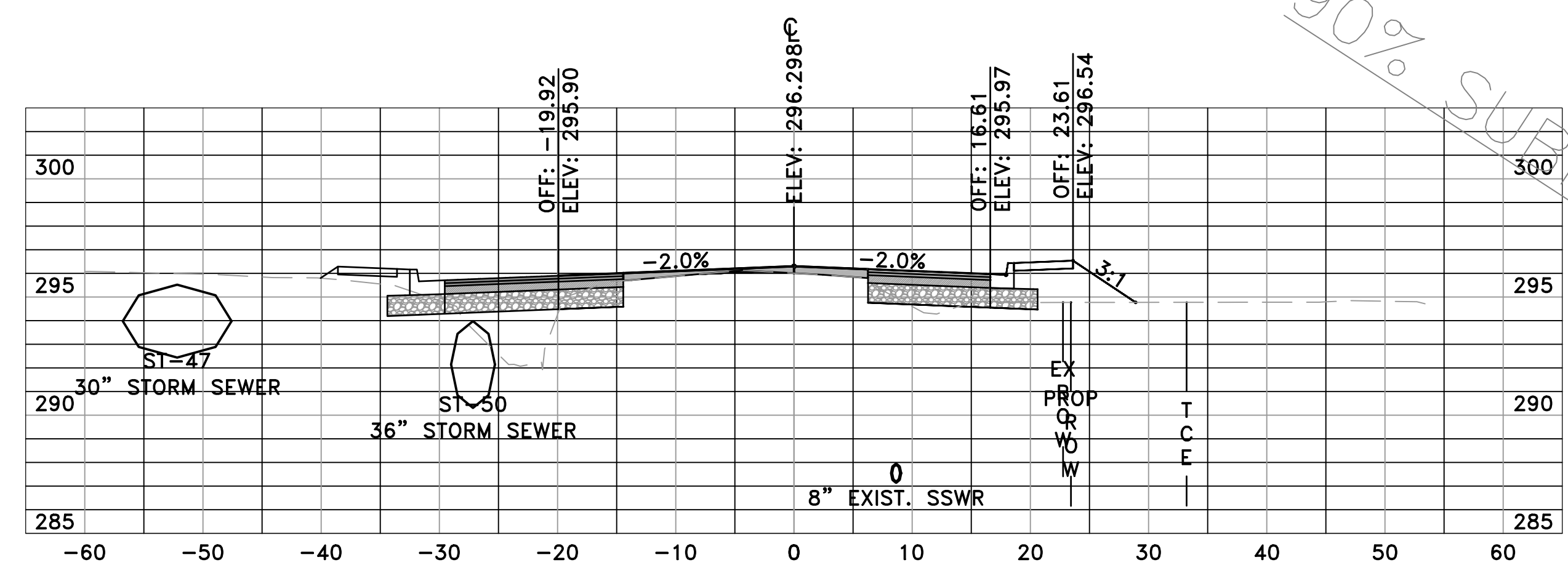


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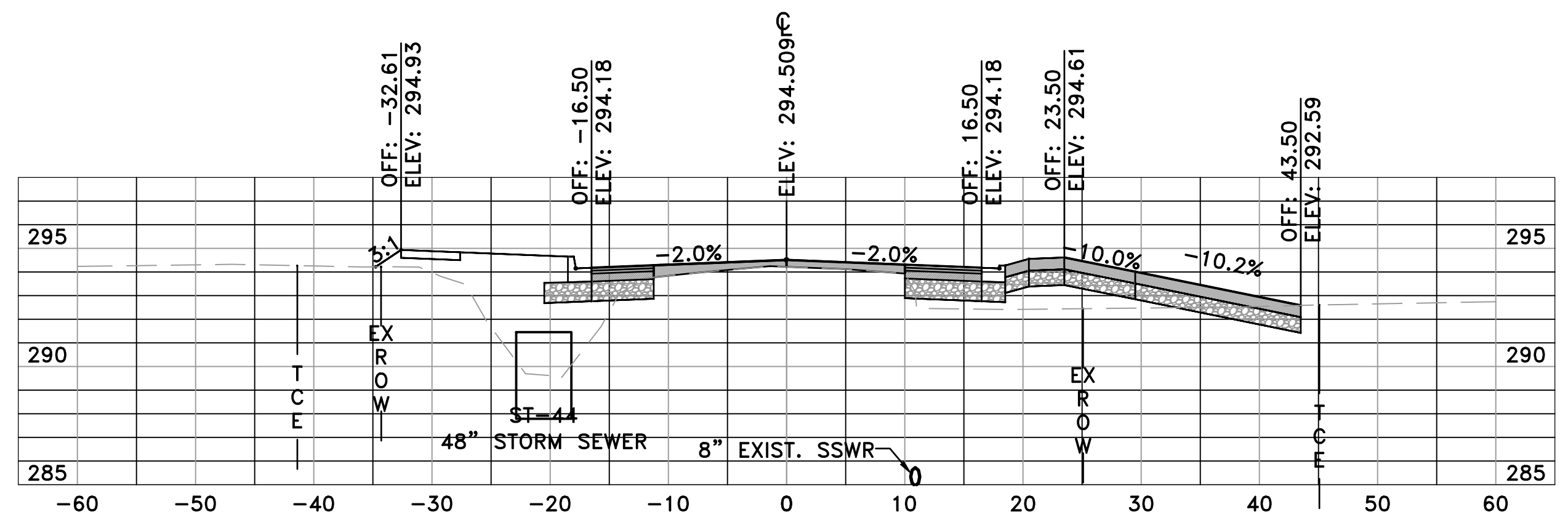
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 X15



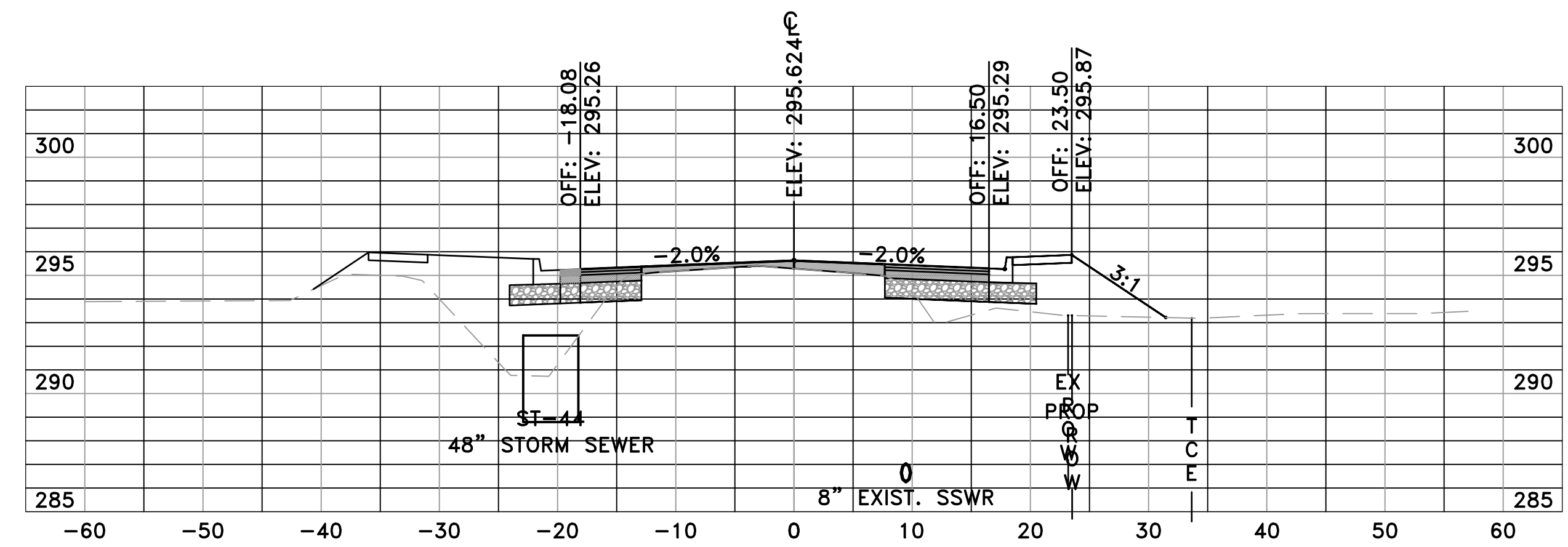
	AREA	VOLUME	CUMULATIVE VOLUME
CUT	13.29	7.54	1659.60
FILL	69.75	39.74	4205.34



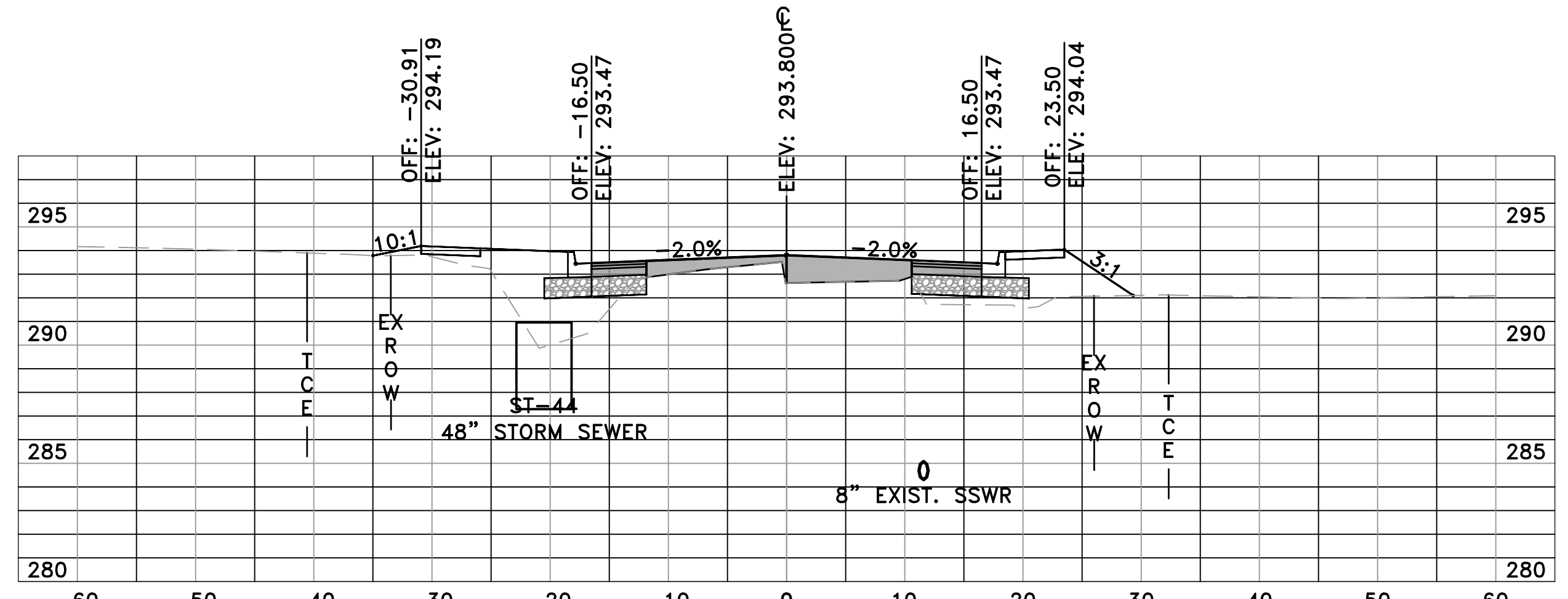
	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.62	14.74	1691.38
FILL	11.50	34.49	4350.17



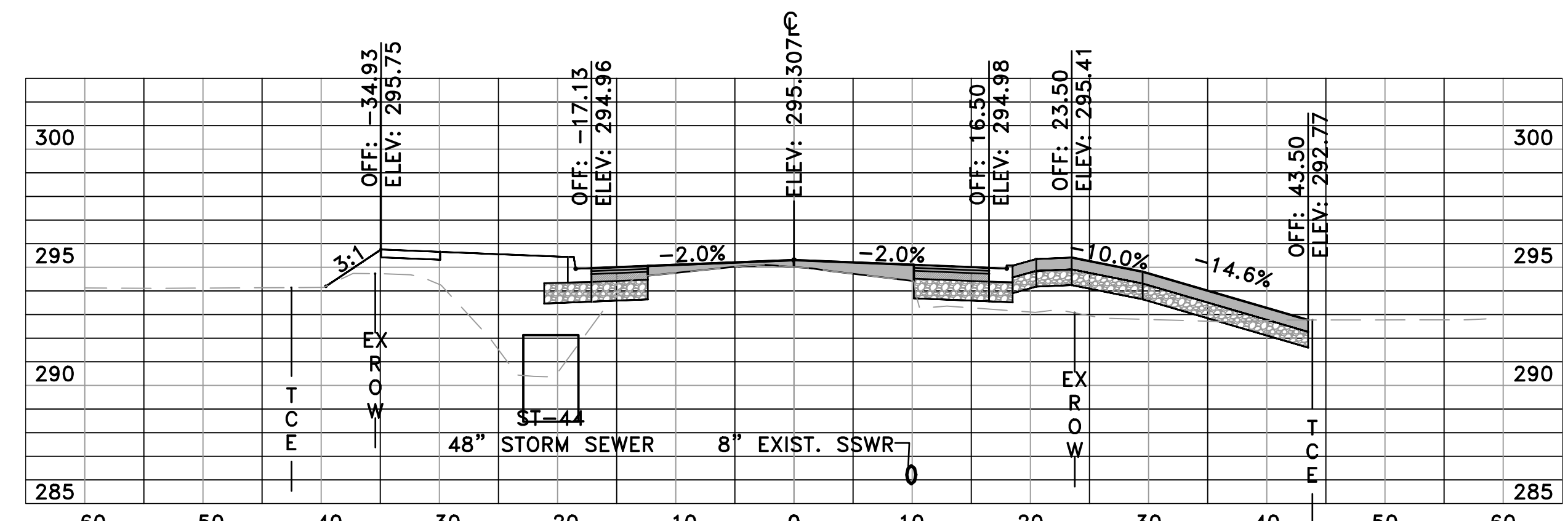
	AREA	VOLUME	CUMULATIVE VOLUME
CUT	10.80	15.70	1652.06
FILL	57.14	66.27	4165.61



	AREA	VOLUME	CUMULATIVE VOLUME
CUT	8.31	6.29	1676.63
FILL	25.75	38.10	4315.68

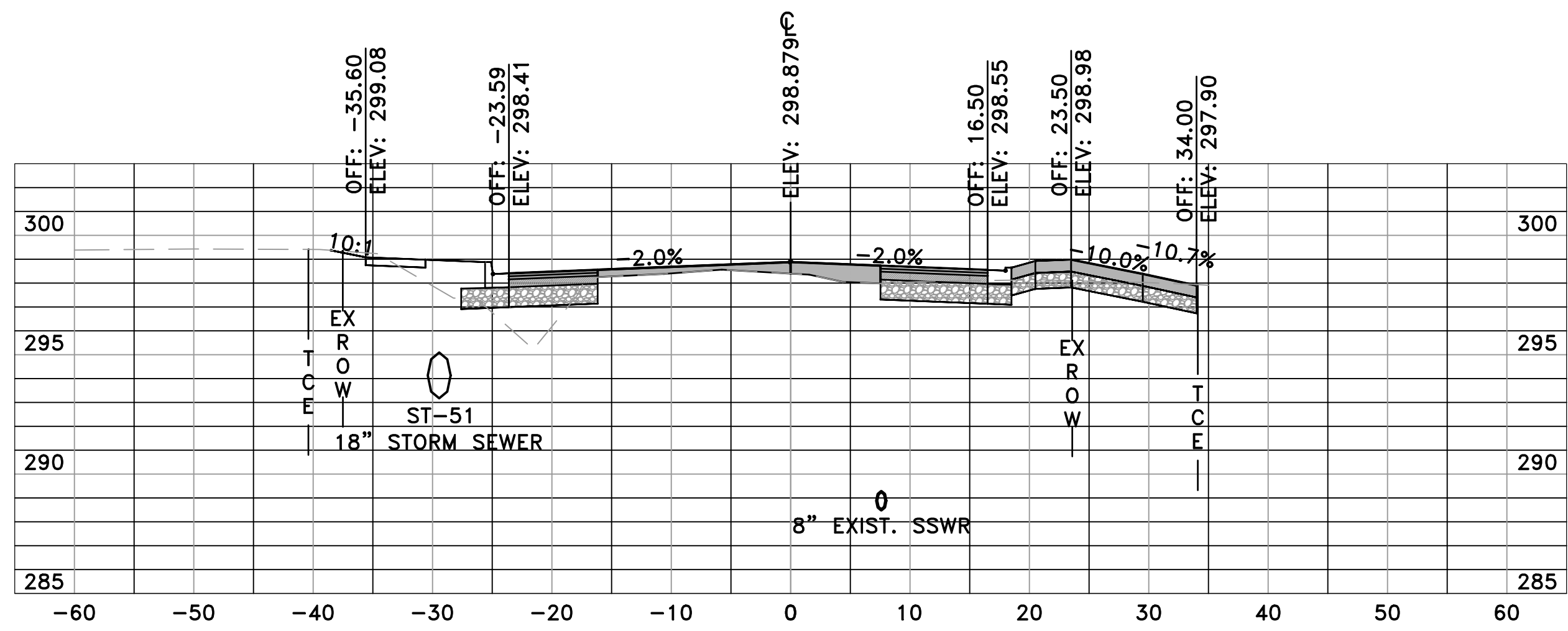


	AREA	VOLUME	CUMULATIVE VOLUME
CUT	14.82	11.49	1636.36
FILL	51.00	19.34	4099.34



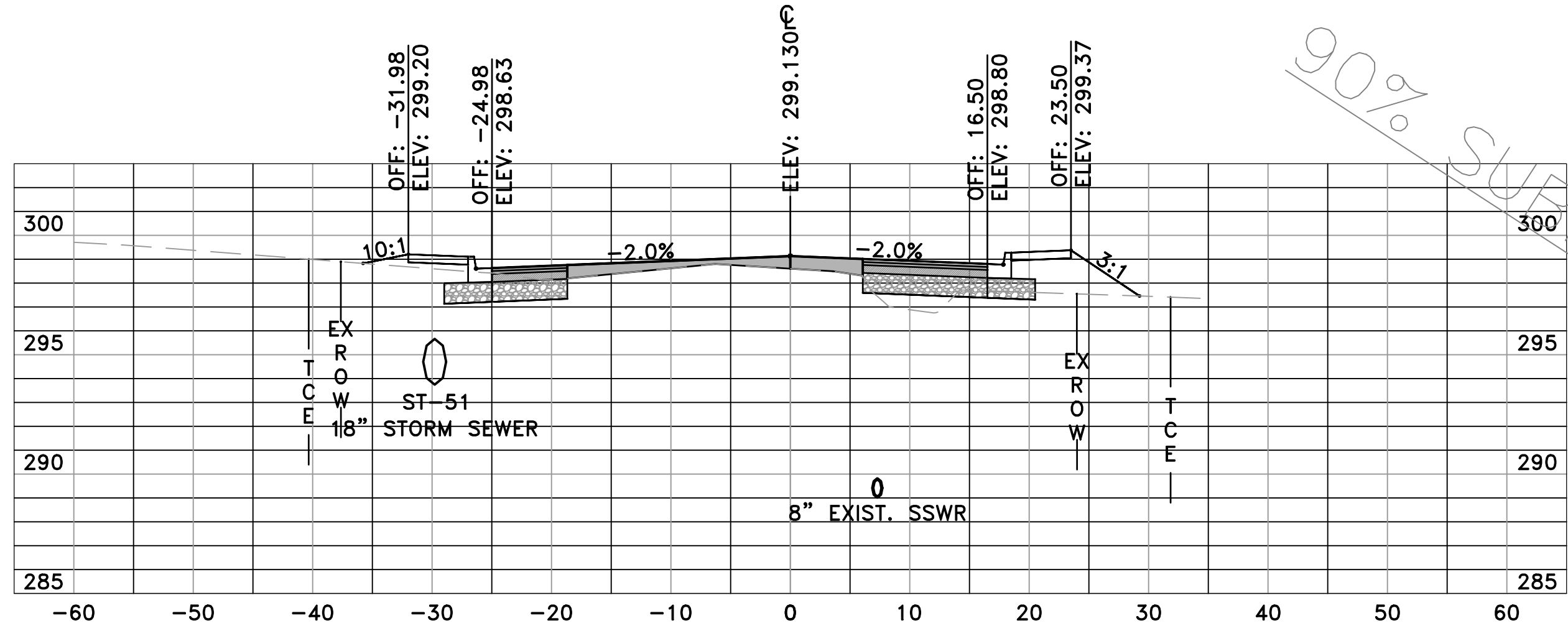
	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.27	10.74	1670.34
FILL	68.60	72.24	4277.58

90% SUBMITTAL



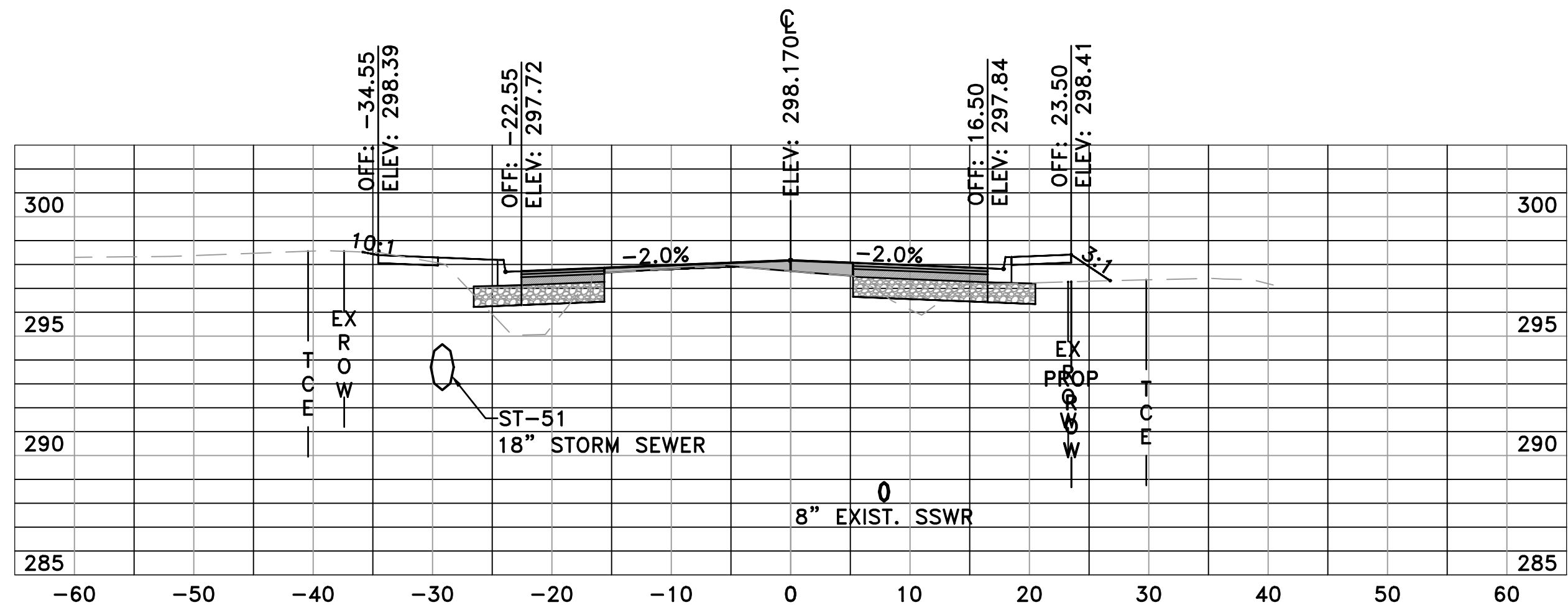
CHICOT RD  
37+42.98

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	23.09	27.18	1752.05
FILL	16.50	26.48	4450.48



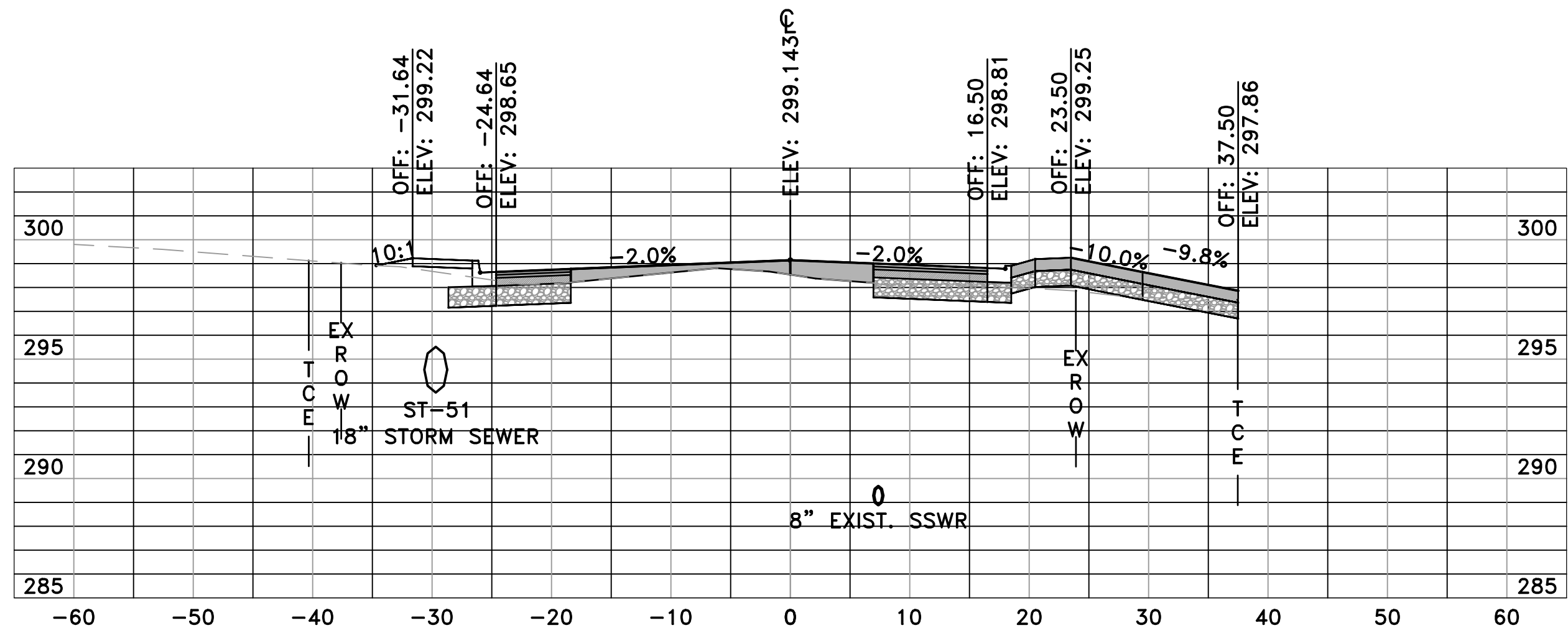
CHICOT RD  
38+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	14.47	8.92	1793.23
FILL	21.00	8.18	4484.98



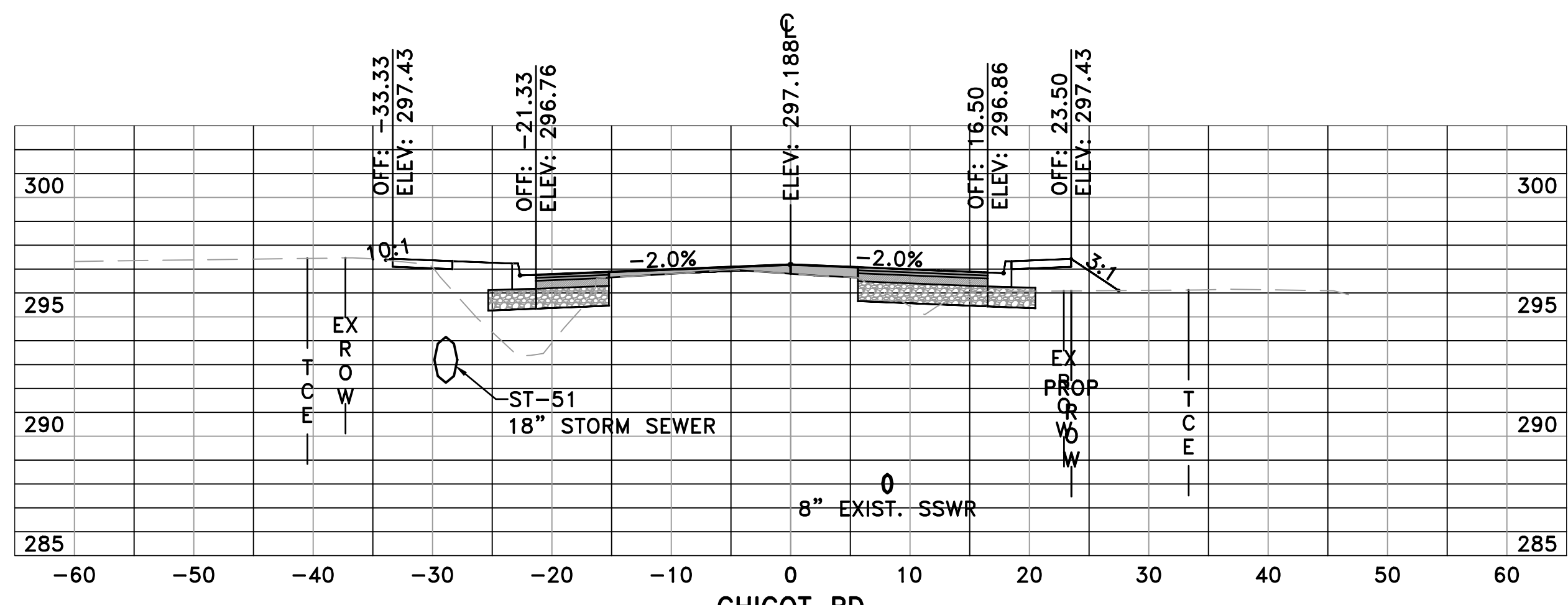
CHICOT RD  
37+00.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	11.06	18.34	1724.87
FILL	16.77	39.36	4424.00



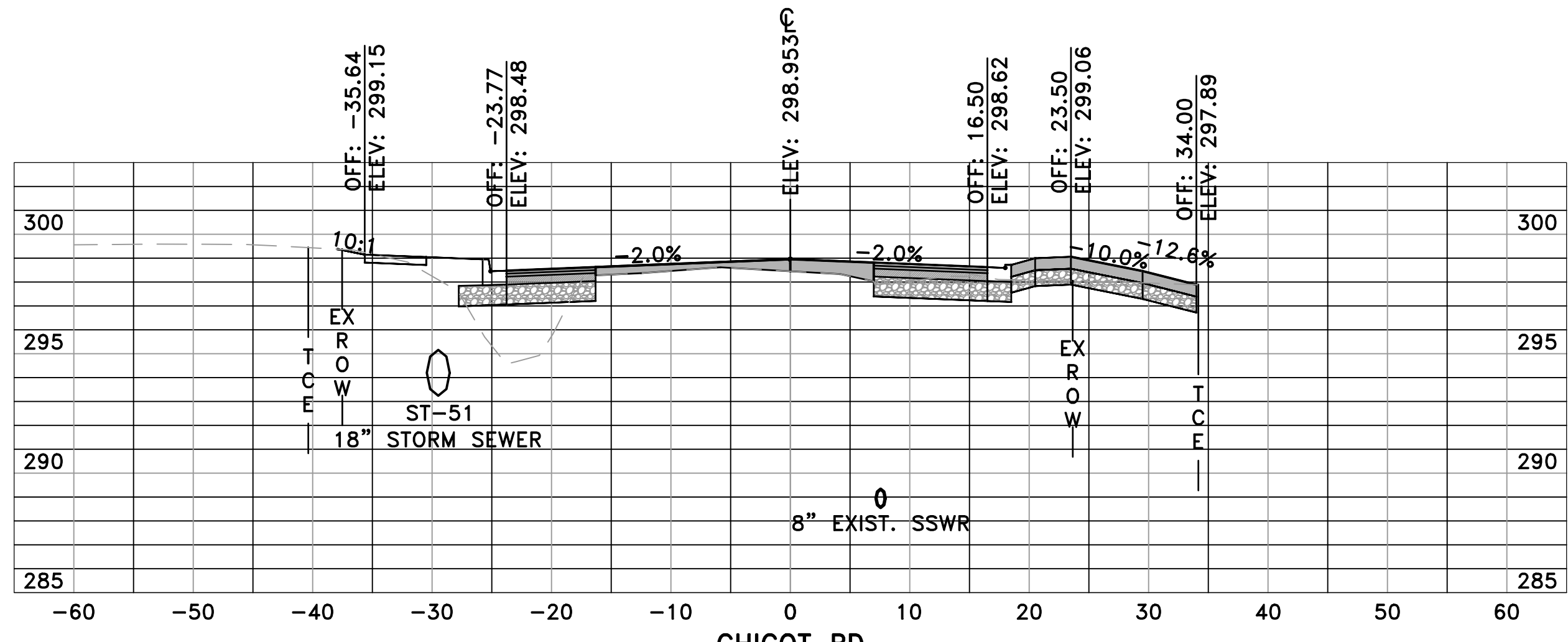
CHICOT RD  
37+85.75

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	19.32	26.55	1784.31
FILL	9.98	21.30	4476.81



CHICOT RD  
36+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	8.75	15.16	1706.53
FILL	25.73	34.47	4384.64



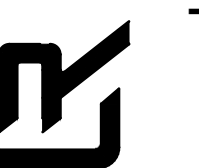
CHICOT RD  
37+50.00

	AREA	VOLUME	CUMULATIVE VOLUME
CUT	20.79	5.71	1757.76
FILL	22.19	5.03	4455.51

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
CHICOT ROAD RECONSTRUCTION  
CROSS SECTIONS (16)

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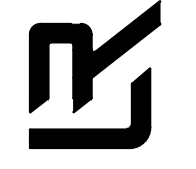
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CITY OF LITTLE ROCK, ARKANSAS  
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 CROSS SECTIONS (17)

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