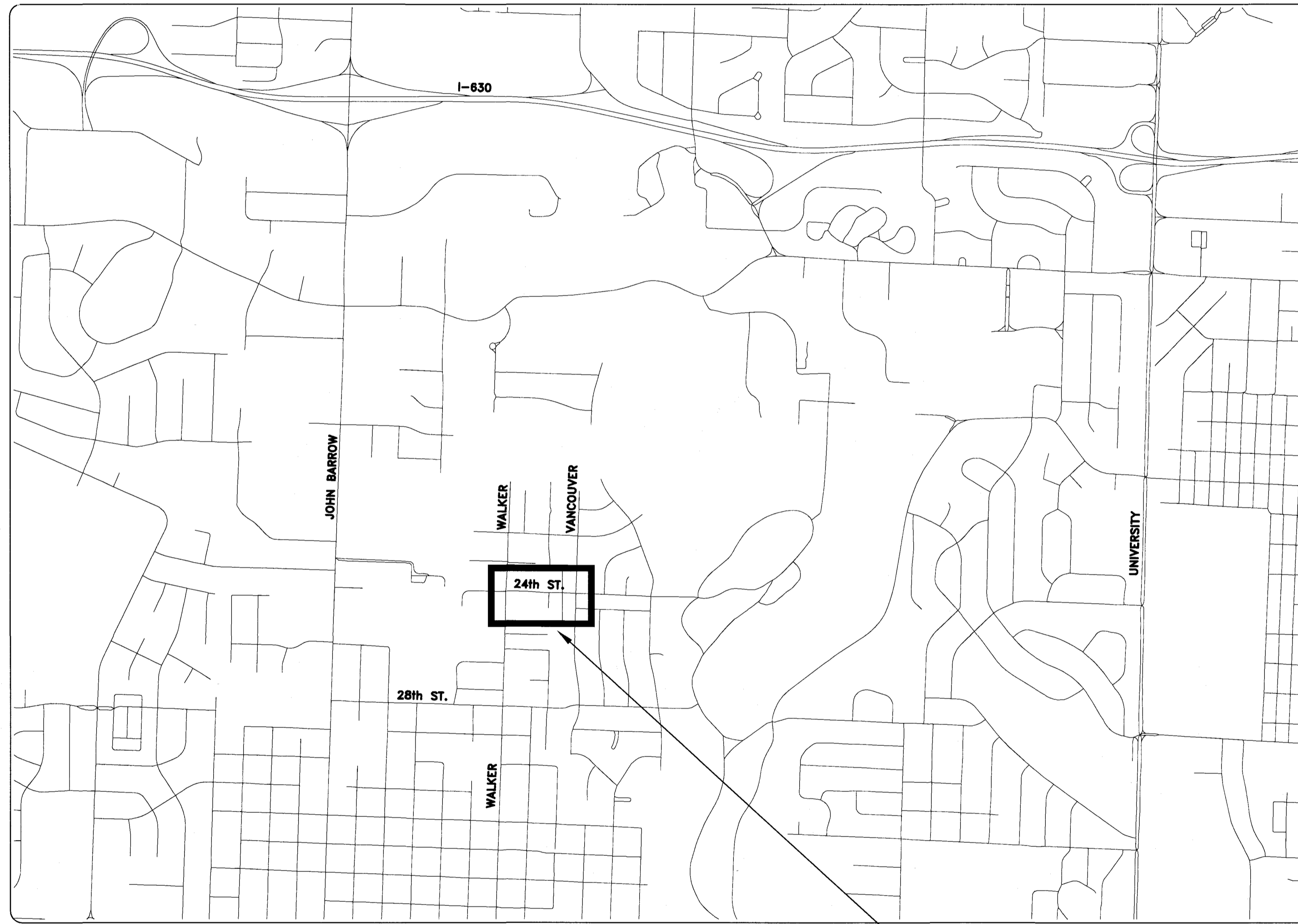


16-6-ST-1

WEST 24TH STREET

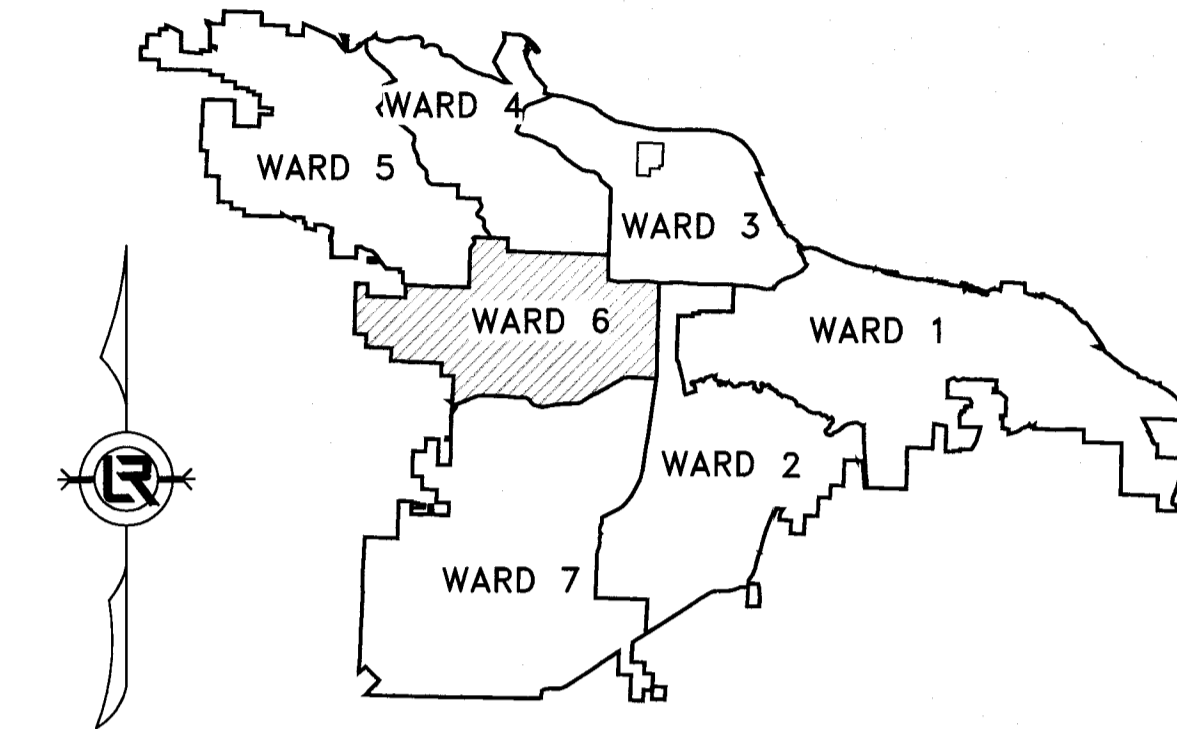
FROM WALKER ST. TO VANCOUVER ST.



SCALE: 1"=1000'

PROJECT LOCATION

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



PROJECT LOCATION - WARD 6

SHEET NO.	TITLE
1	COVER SHEET
2	QUANTITIES, LEGEND, AND TYPICAL SECTIONS
3	STA 10+00 TO STA 14+50 PLAN AND PROFILE
4	STA 14+50 TO END PLAN AND PROFILE
5	DRIVEWAY PLANS
6	CROSS SECTIONS
7	CROSS SECTIONS
8	CROSS SECTIONS
9	SURVEY CONTROL AND RIGHT OF WAY PLANS
10	EROSION CONTROL PLAN

3S Sewer Relocation Plan 1
 4S Sewer Relocation Plan 2



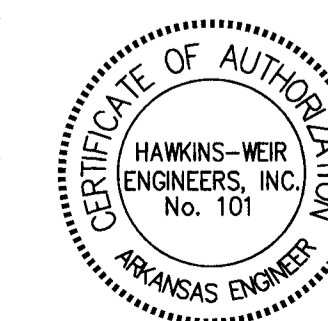
**Know what's below.
 Call before you dig.**

HW HAWKINS & WEIR

ENGINEERS, INC.

110 South 7th Street Van Buren, AR 72956 (479) 474-1227 | 403 Garrison Avenue Fort Smith, AR 72901 (479) 242-4685 | 438 Millsap Road, Suite 107 Fayetteville, AR 72703 (479) 455-2206 | 211 Natural Resources Drive Little Rock, AR 72205 (501) 374-4846

www.hawkins-weir.com



HWEI NO. 2016060

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
 WEST 24TH STREET
 COVER SHEET

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

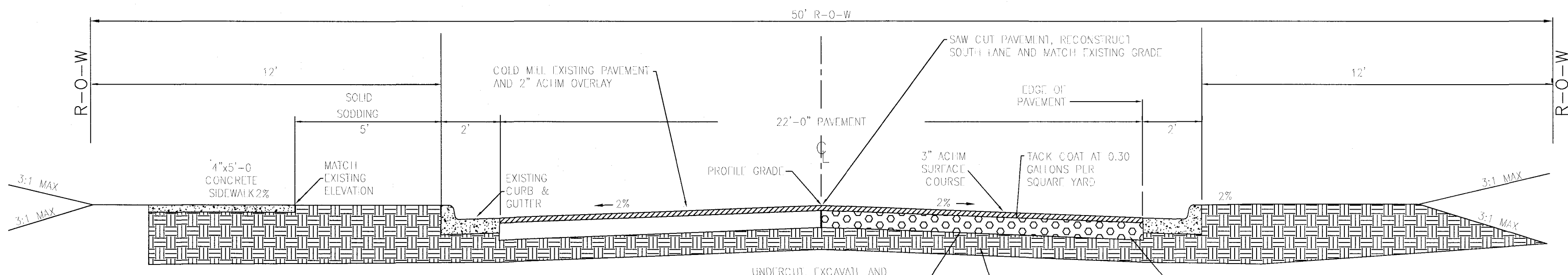


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 JCW
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 JKS
 DATE
 6-20-2018
 SCALE
 N.T.S.
 PROJECT NO.
 16-6-ST-1
 SHEET NO.
 1

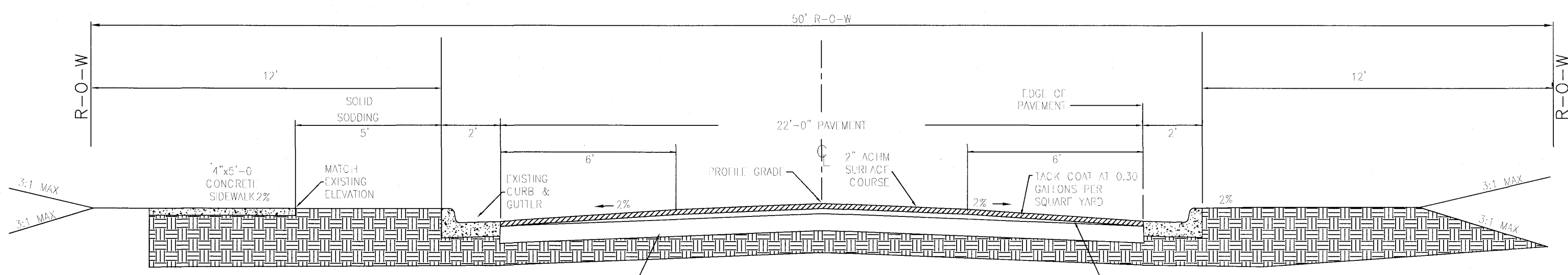
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CLR PROJECT # 16-6-ST-1 24TH STREET Jun-18			
QUANTITY TABLE			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
2.01	SITE PREPARATION (INCLUDING MOBILIZATION)	1	LS
3.01	UNCLASSIFIED EXCAVATION	1000	CY
3.06	BORROW MATERIAL	400	CY
4.01	AGGREGATE BASE COURSE (CLASS 7)	230	TON
5.01	TACK COAT	635	GAL
6.01	ASPHALT SURFACE COURSE	275	TON
7.04	CONCRETE DRIVE (PRIVATE 4")	2200	SF
8.01	CONCRETE CURB & GUTTER	610	LF
9.01	CONCRETE SIDEWALK	3650	SF
10.01	JUNCTION BOX	1	EA
10.04	CURB INLET (4' x 4')	5	EA
10.05	CURB INLET (4' x 8')	4	EA
10.07	WING 3' EXTENSION	6	EA
10.10	WING 6' EXTENSION	3	EA
13.18C	STORM DRAIN PIPES, 18" CROSS DRAIN	27	LF
13.18A	STORM DRAIN PIPE, 14" X 22" ARCH RCP	55	LF
13.24S	STORM DRAIN PIPES, 24" SIDE DRAIN	162	LF
13.24A	STORM DRAIN PIPE, 18" X 29" ARCH RCP	459	LF
14.01	SOLID SODDING (BERMUDA)	2170	SY
16.01	MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL	1	LS
18.10	WATER FOR DUST CONTROL	20000	GAL
18.50	ACCESS RAMP	60	SF
19.01	FINAL CLEAN-UP	1	LS
23.01	B STONE	500	TON
24.01	CONSTRUCTION ENTRANCE	1	EA
24.02	CHECK DAM (CD)	5	EA
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	12	EA
24.09	SEDIMENT BARRIER, BLOCK (SD4)	12	EA
24.11	SILT FENCE - TYPE A (SFA)	1500	LF
24.16	DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION (TS1)	0.5	AC
26.01	TRENCH AND EXCAVATION SAFETY SYSTEM	1	LS
27.10	COLD MILLING ASPHALT PAVEMENT	1230	SY
32.24	FLARED END SECTIONS, 24"	1	EA
49.00	TOP SOIL	240	CY

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 UTILITY	---
UNDERGROUND TELEPHONE	---
UNDERGROUND ELECTRIC	---
WATER LINE	---
SEWER LINE	---
GAS LINE	---
STORM SEWER/CULVERT	---
CONTOUR LINE	---
	CONTOUR
	SPOT ELEVATION
	STORM 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 - INLET WITH SINGLE EXTENSION
	STORM SEWER - INLET WITH DOUBLE EXTENSION
	STORM SEWER - AREA INLET
	GRADE BREAK LINE
	HIGH POINT
	LOW POINT
	CUT LINE
	FILL LINE
	SANITARY SEWER PIPE
	SANITARY SEWER MANHOLE
	CURB
	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



WEST 24th STREET TYPICAL SECTION
STA 10+11 TO STA 13+30
STA 16+50 TO STA 17+88
DETAIL A
N.T.S.



WEST 24th STREET TYPICAL SECTION
STA 13+30 TO STA 16+50
DETAIL B
N.T.S.

SUMMARY OF QUANTITIES BID SCHEDULE 2			
ITEM NUMBER	ITEM	QUANTITY	UNIT
1	8" PVC PIPE	591	LF
2	8" DIP PIPE	80	LF
3	0'-6' TRENCHING AND BACKFILL	274	LF
4	6'-8' TRENCHING AND BACKFILL	323	LF
5	8'-10' TRENCHING AND BACKFILL	74	LF
6	0-6' 4FT CONCRETE MAN HOLE	8	EA
7	EXTRA DEPTH MANHOLE	8	VF
8	SB2 GRAVEL FOR STREET CUT (CLASS 7)	1100	TON
9	REMOVE EXISTING MANHOLES	6	EA
10	GROUTFILL EXIST. SEWER MAINS	586	LF
11	LOWER LATERAL SERVICE REINSTATEMENTS (INC. DCO)	9	EA
12	4" ADDITIONAL CI SERVICE PIPE	120	LF

- CONSTRUCTION NOTES**
- FIELD DENSITY TESTS ARE REQUIRED TO VERIFY COMPACTION. WHEN THE TESTS INDICATE THAT THE DENSITY OF ANY AREA OR LIFT IS BELOW THE REQUIRED DENSITY OR BEYOND THE SPECIFIED MOISTURE CONTENTS, THE FAILING PORTION SHOULD BE REWORKED AND TESTED UNTIL THE RESULTS ARE WITHIN THE SPECIFICATIONS.
 - PRIOR TO INSTALLING THE BASE COURSE THE CONTRACTOR SHALL PROOF-ROLL THE SUBGRADE. ANY SOFT AND YIELDING AREAS SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS. PROOF-ROLLING SHOULD BE ACCOMPLISHED WITH A LOADED DUMP TRUCK EXERTING A MINIMUM OF 10,000 LBS. PER AXLE.
 - ALL DISTURBED AREAS SHALL BE RESTORED WITH 4-INCH TOPSOIL AND SOLID SOD.

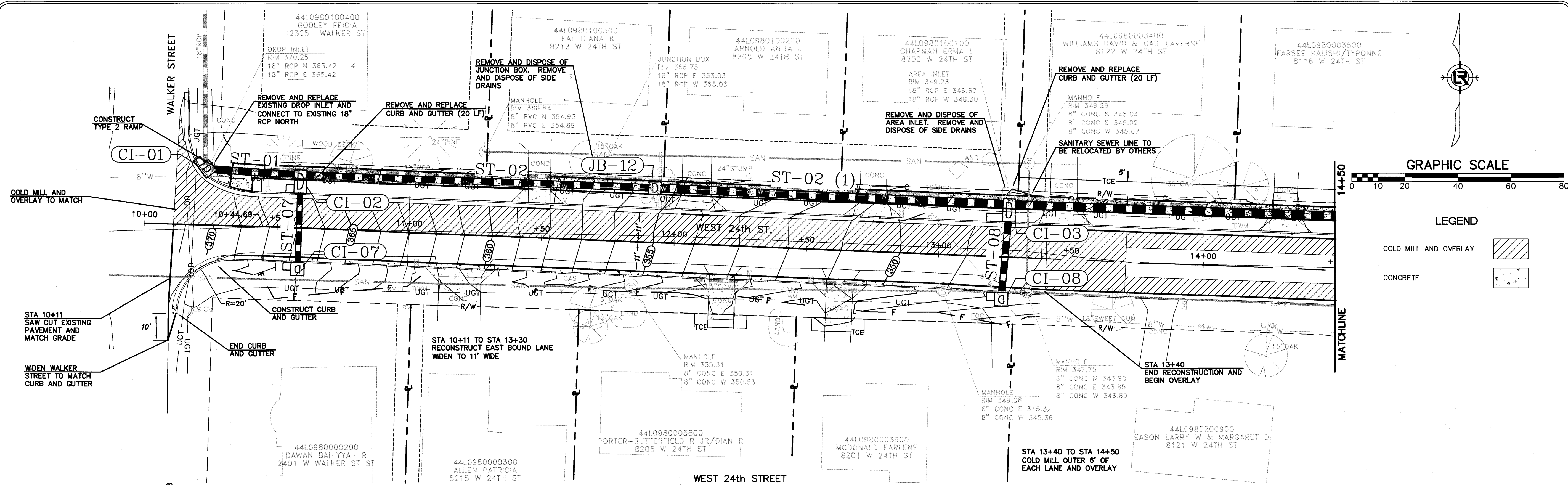
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
QUANTITIES, LEGEND,
AND TYPICAL SECTIONS

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

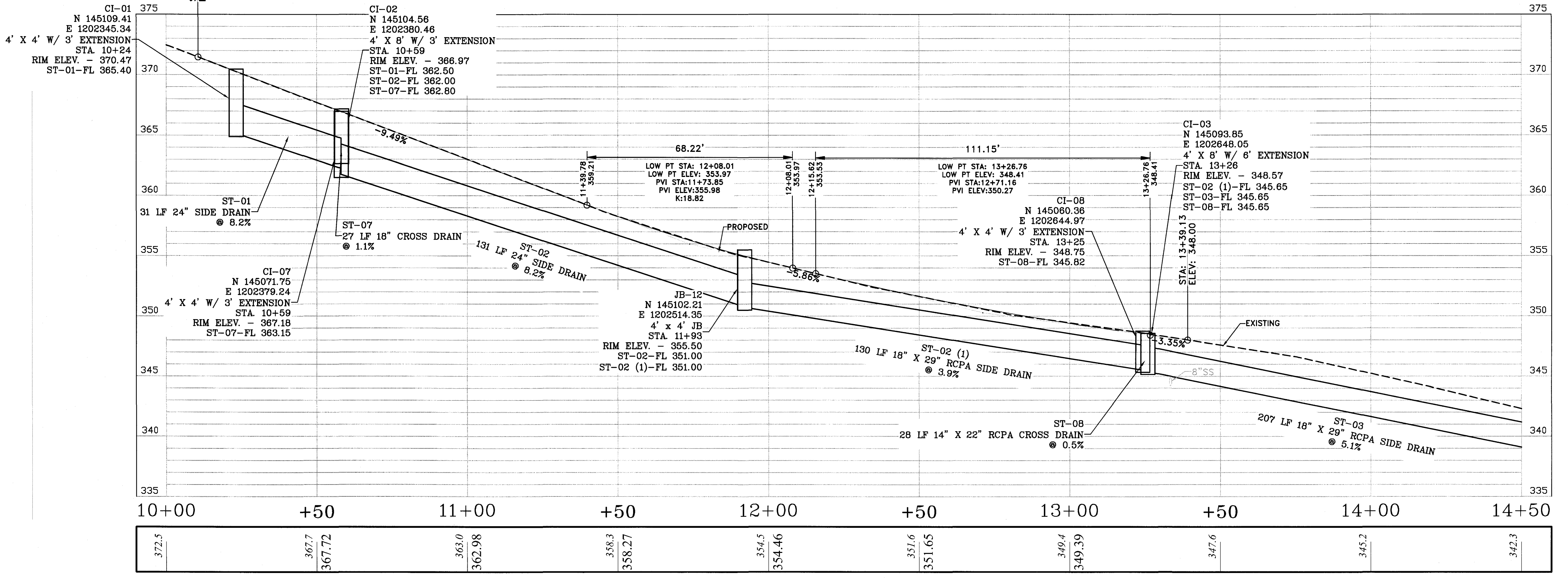
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 17180
BLAKE A. PEACOCK

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BAP
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PROJECT NO.
16-6-ST-1
SHEET NO.
2



WEST 24th STREET
STA 10+00 TO STA 14+50

PLAN
1"=20'



WEST 24th STREET
STA 10+00 TO STA 14+50

PROFILE
H: 1"=20', V: 1"=5'

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
PLAN AND PROFILE
STA 10+00 TO STA 14+50

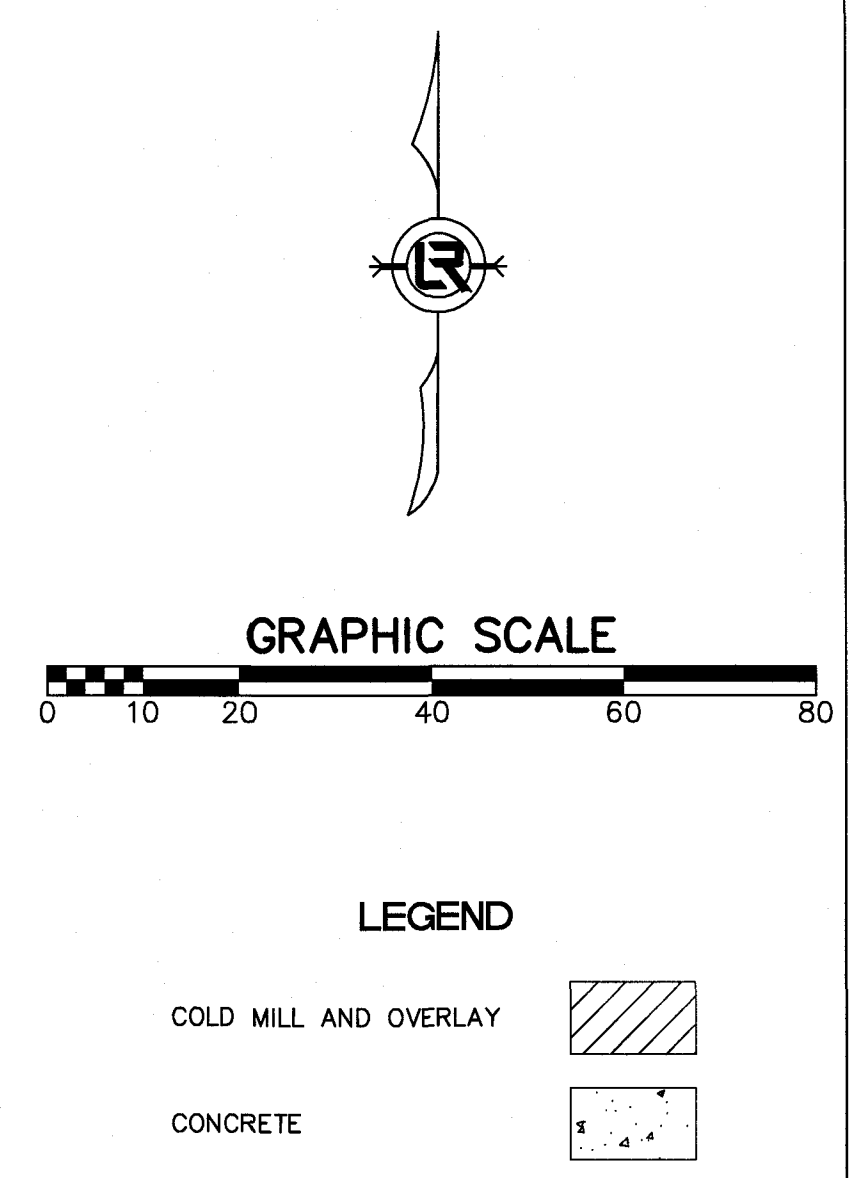
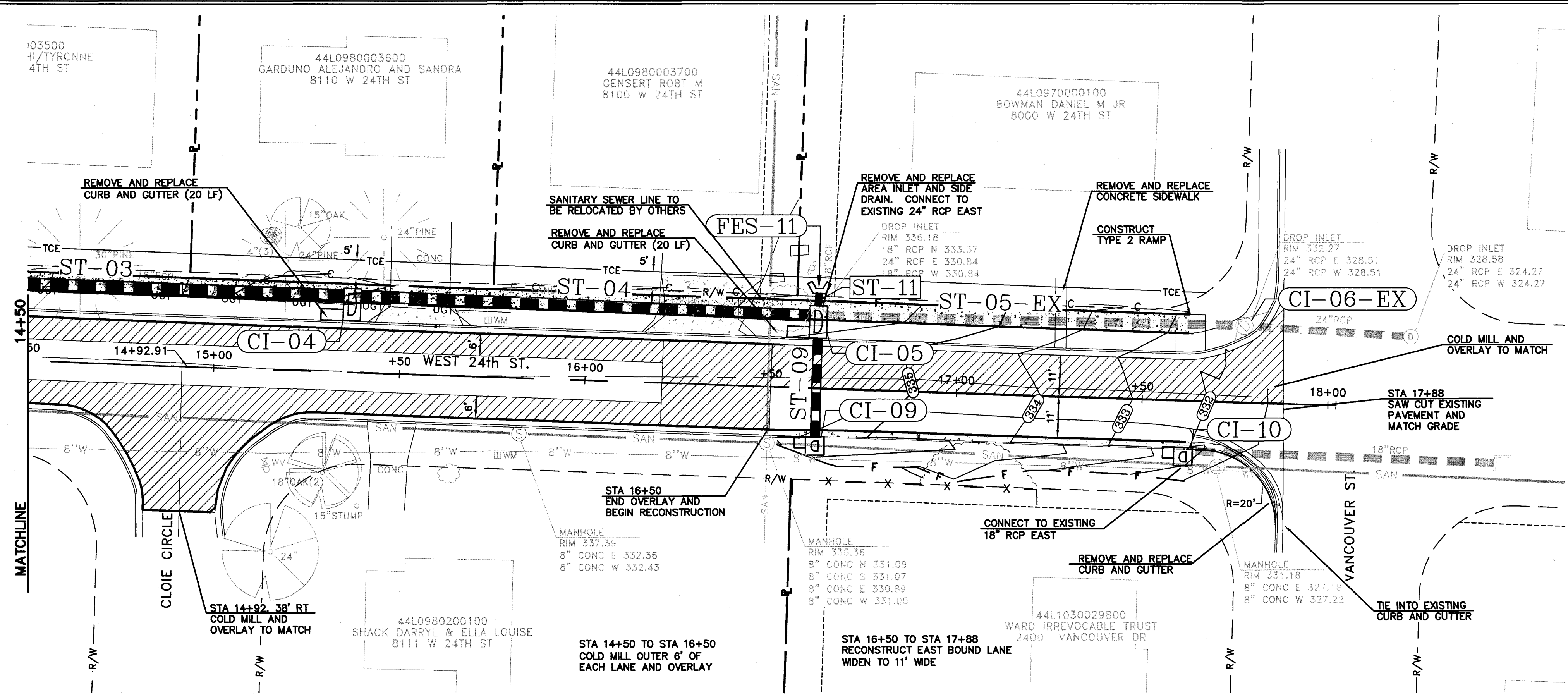
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LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
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No. 17186
BLAKE A. PEACOCK

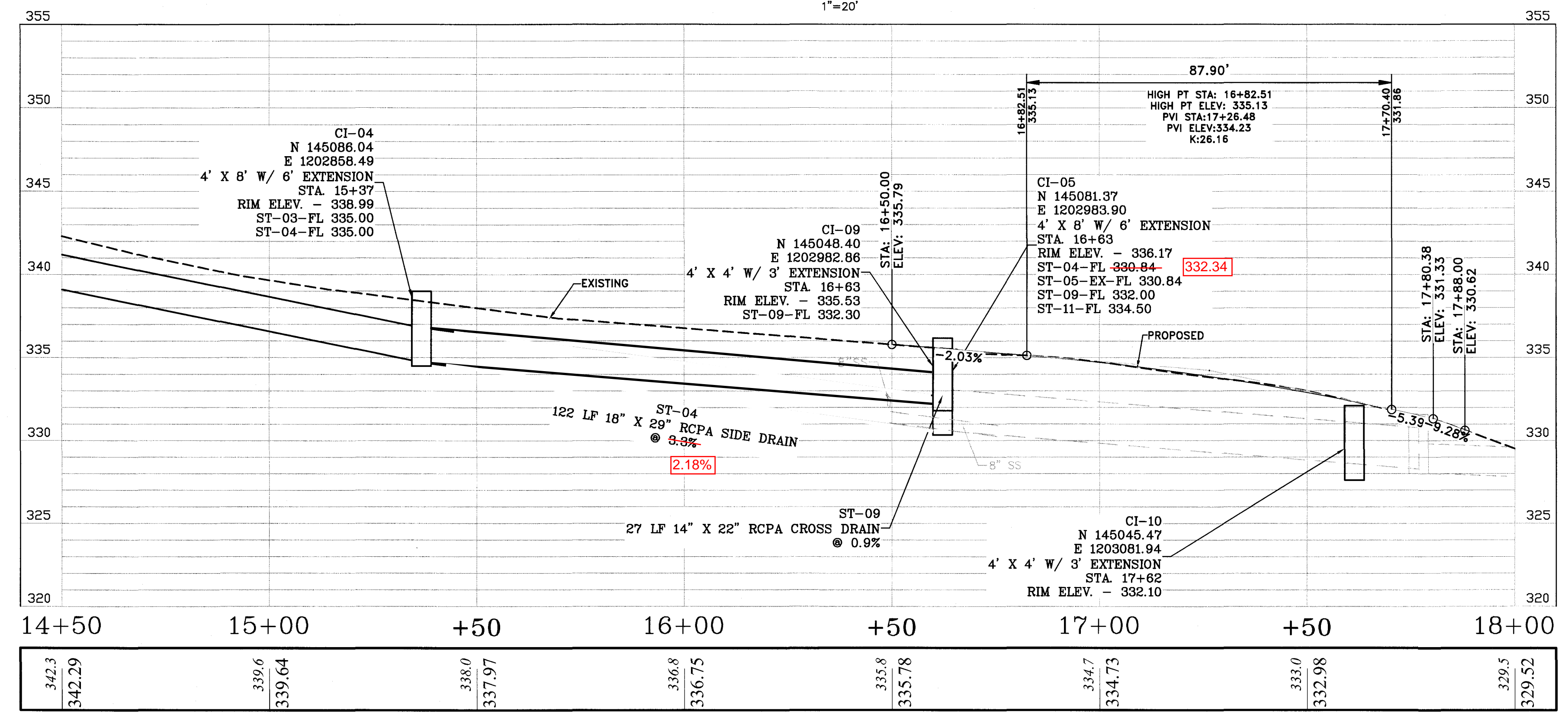
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CHECKED
JKS
DATE
6-20-2018
SCALE
H: 1"=20'; V: 1"=5'
PROJECT NO.
16-6-ST-1
SHEET NO.
3

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REVISIONS	DATE
ST-04 SLOPE REV	6/21/18



WEST 24th STREET
STA 14+50 TO EOP
PLAN
1"=20'



WEST 24th STREET
STA 14+50 TO END
PROFILE
H: 1"=20', V: 1"=5'

342.3	342.29	339.6	339.64	338.0	337.97	336.8	336.75	335.8	335.78	334.7	334.73	333.0	332.98	329.5	329.52
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CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
PLAN AND PROFILE
STA 14+50 TO END

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CIVIL ENGINEERING
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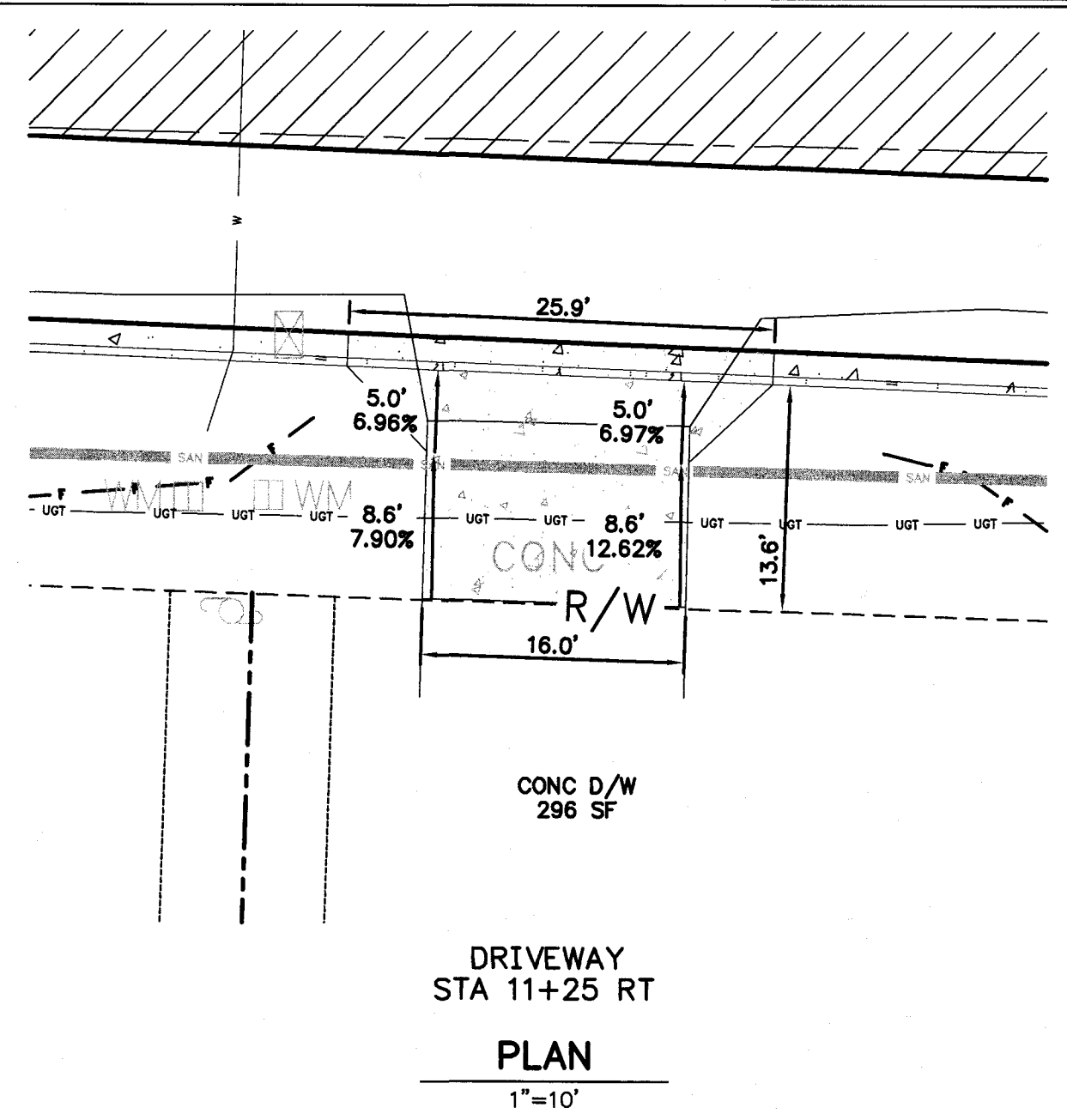
STATE OF ARKANSAS
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No. 17180
BLAKE A. PEACOCK

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DATE
6-20-2018
SCALE
H:1"=20';V:1"=5'
PROJECT NO.
16-6-ST-1
SHEET NO.
4

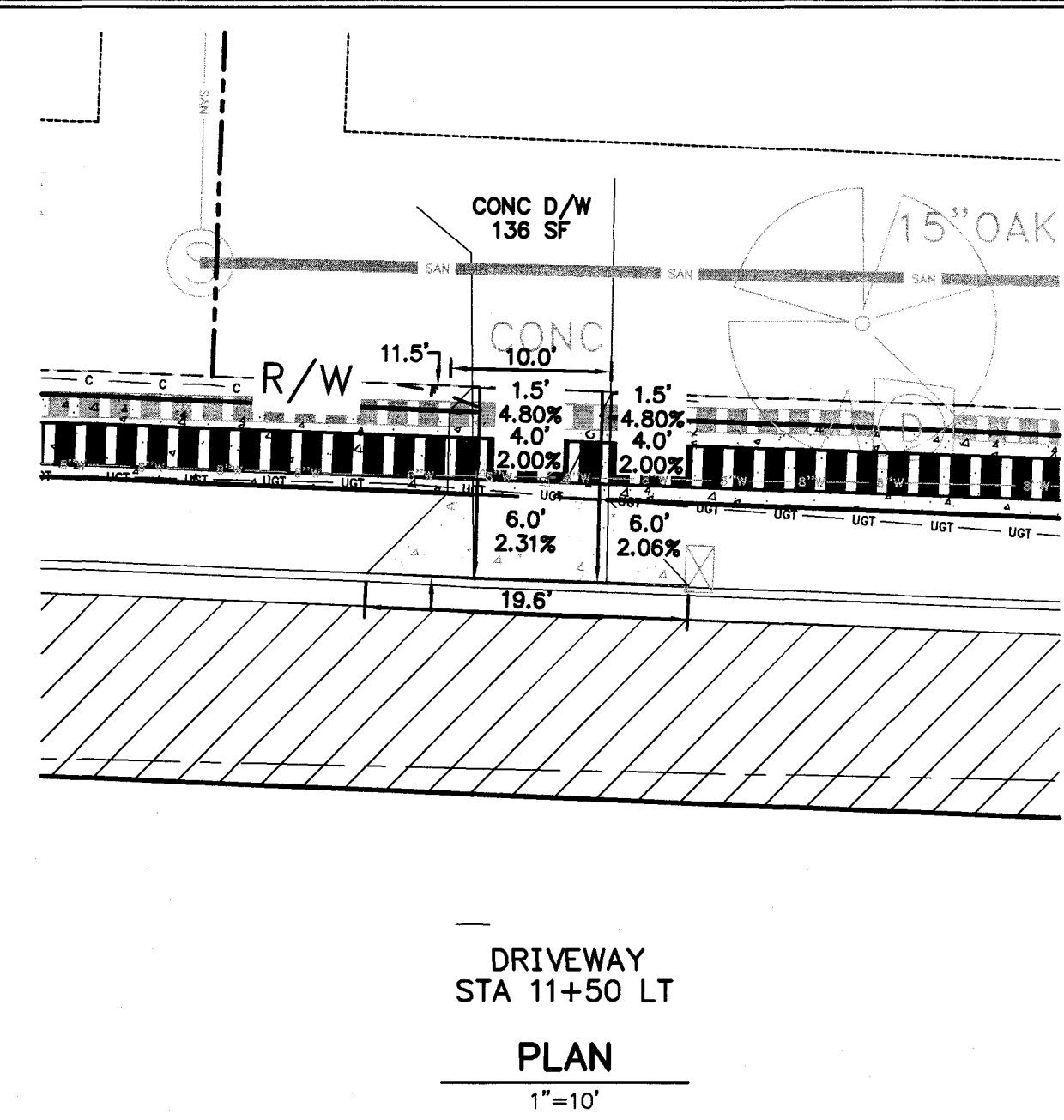
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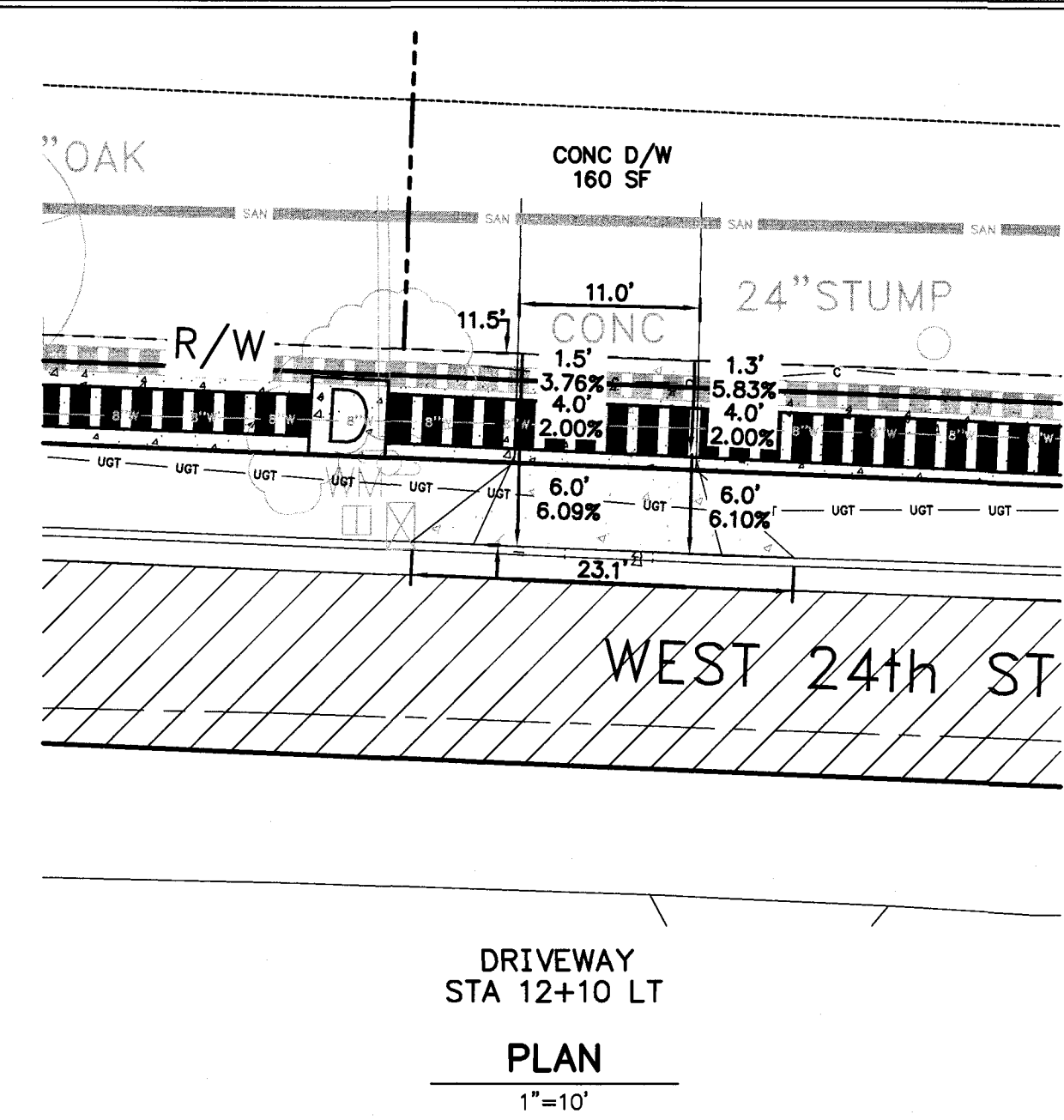
CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
DRIVEWAY PLANS



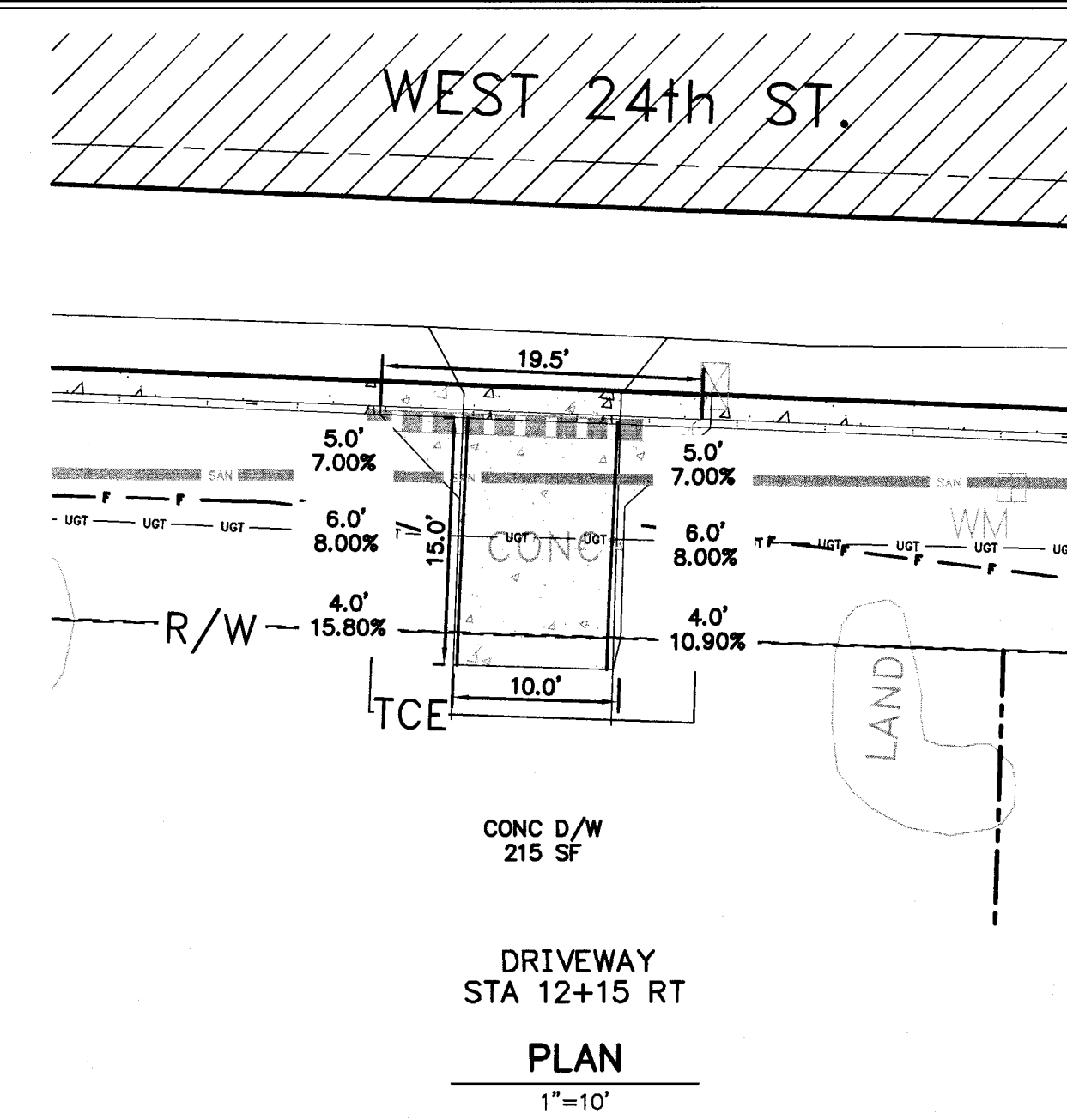
DRIVEWAY
STA 11+25 RT
PLAN
1"=10'



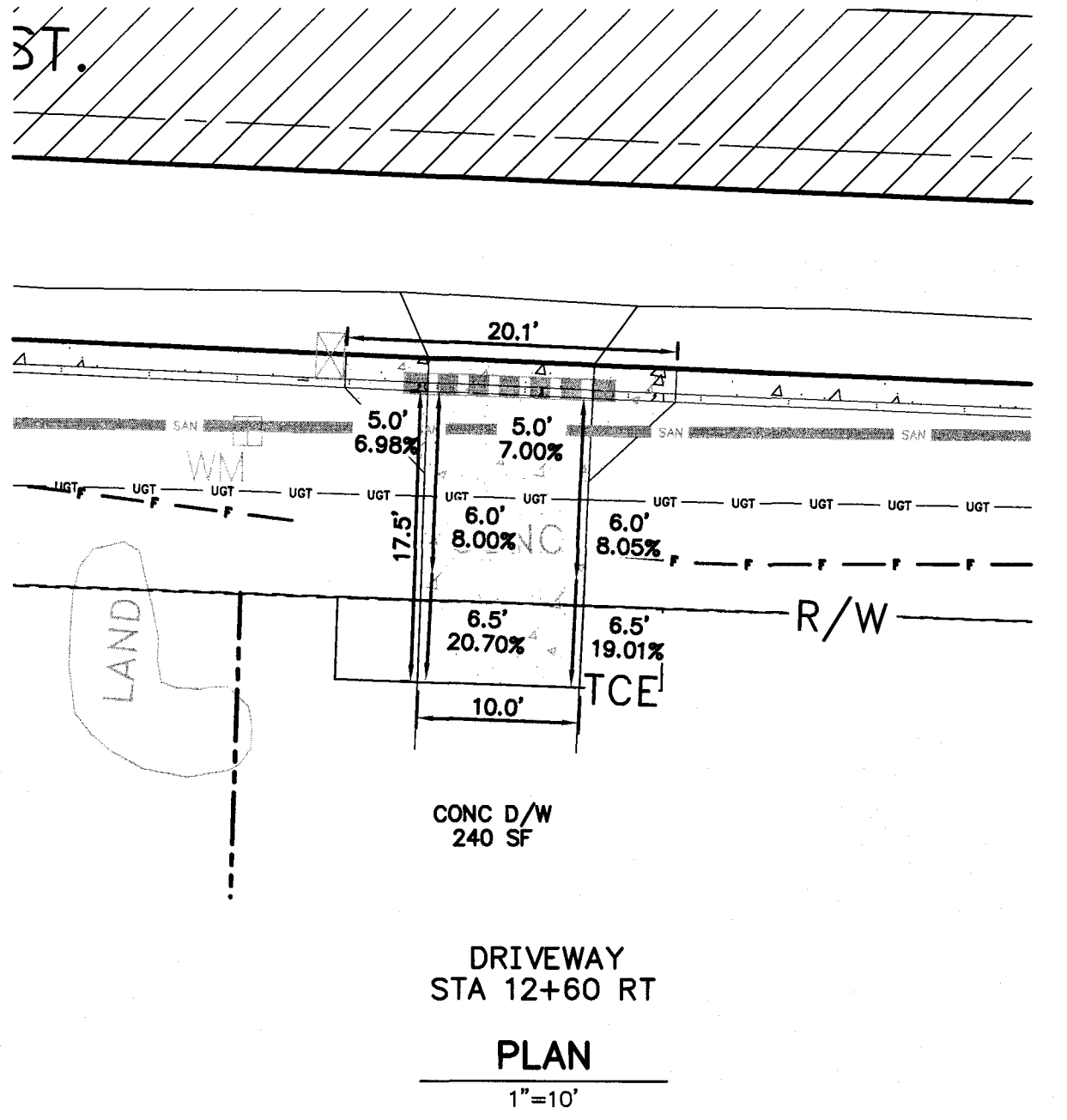
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STA 11+50 LT
PLAN
1"=10'



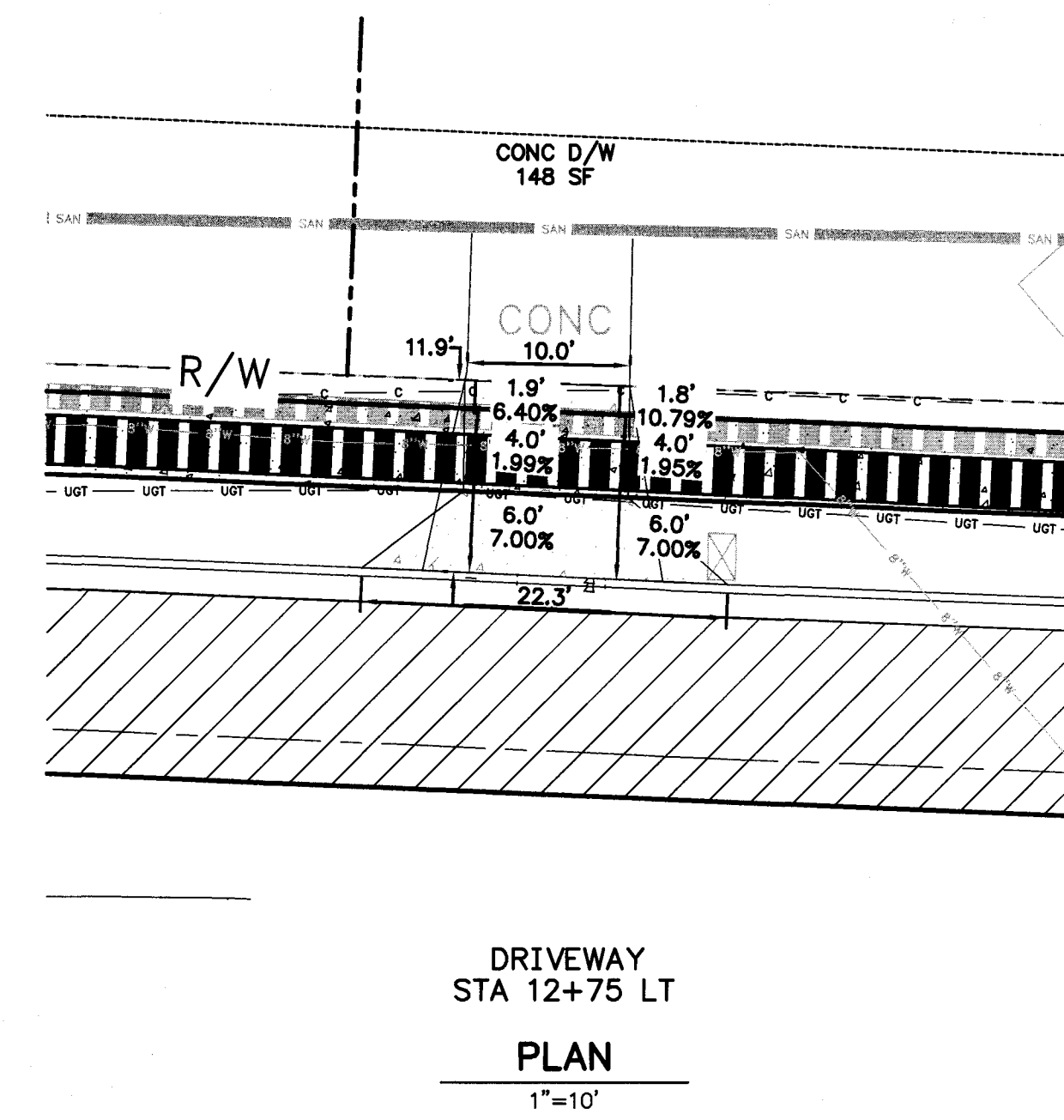
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STA 12+10 LT
PLAN
1"=10'



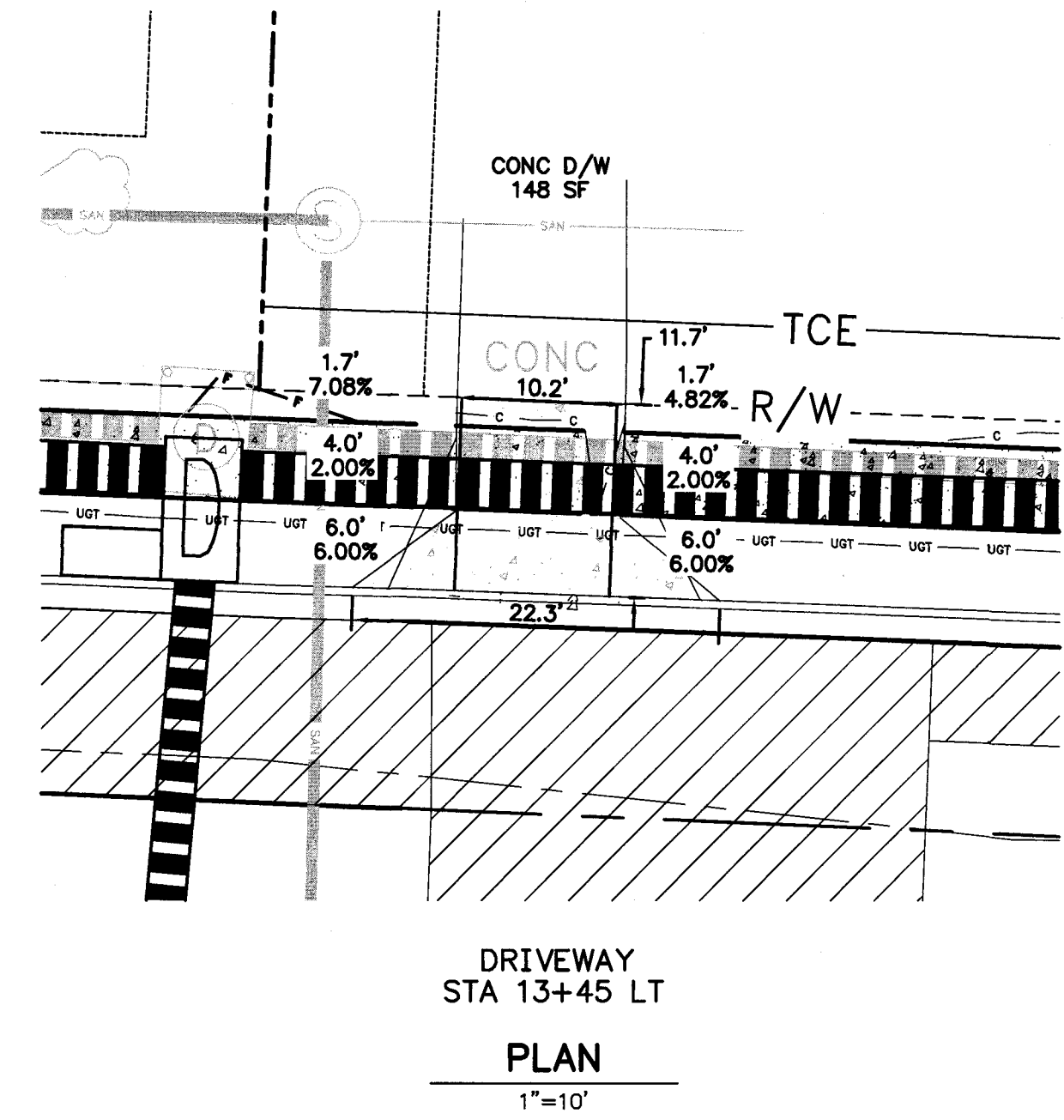
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PLAN
1"=10'



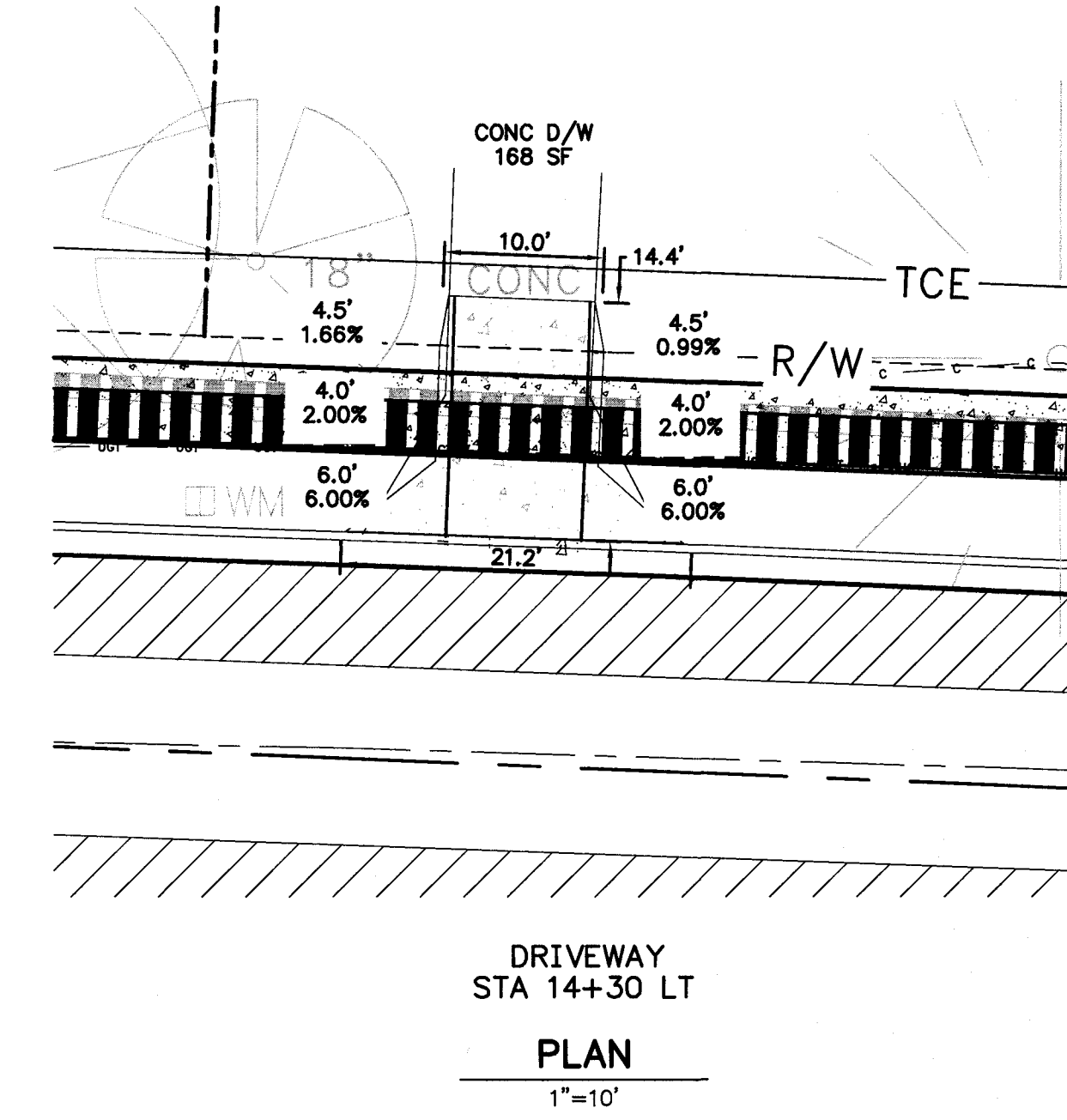
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STA 12+60 RT
PLAN
1"=10'



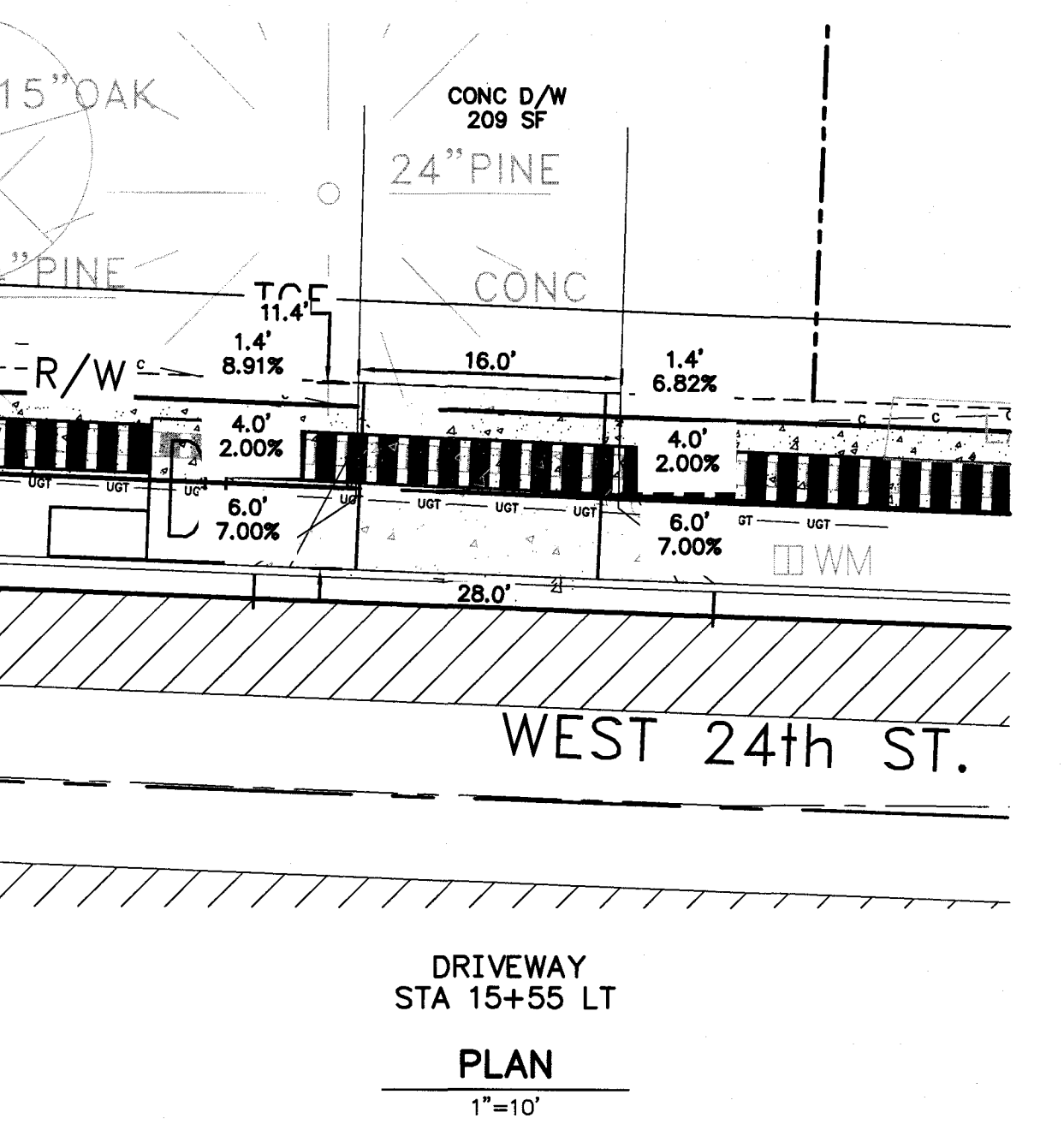
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STA 12+75 LT
PLAN
1"=10'



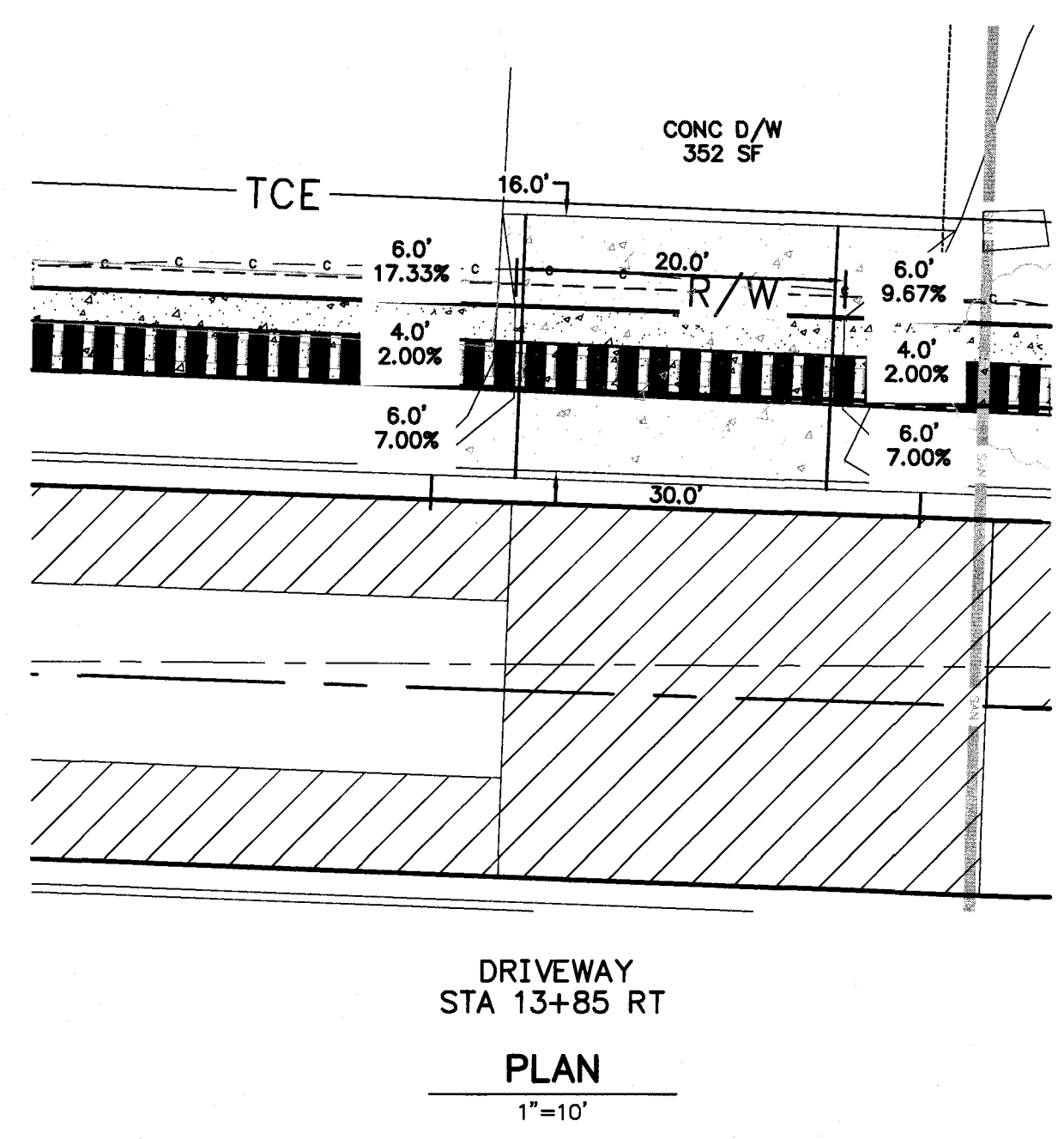
DRIVEWAY
STA 13+45 LT
PLAN
1"=10'



DRIVEWAY
STA 14+30 LT
PLAN
1"=10'

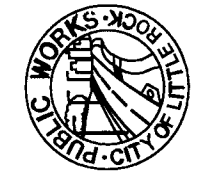


DRIVEWAY
STA 15+55 LT
PLAN
1"=10'



DRIVEWAY
STA 13+85 ST
PLAN
1"=10'

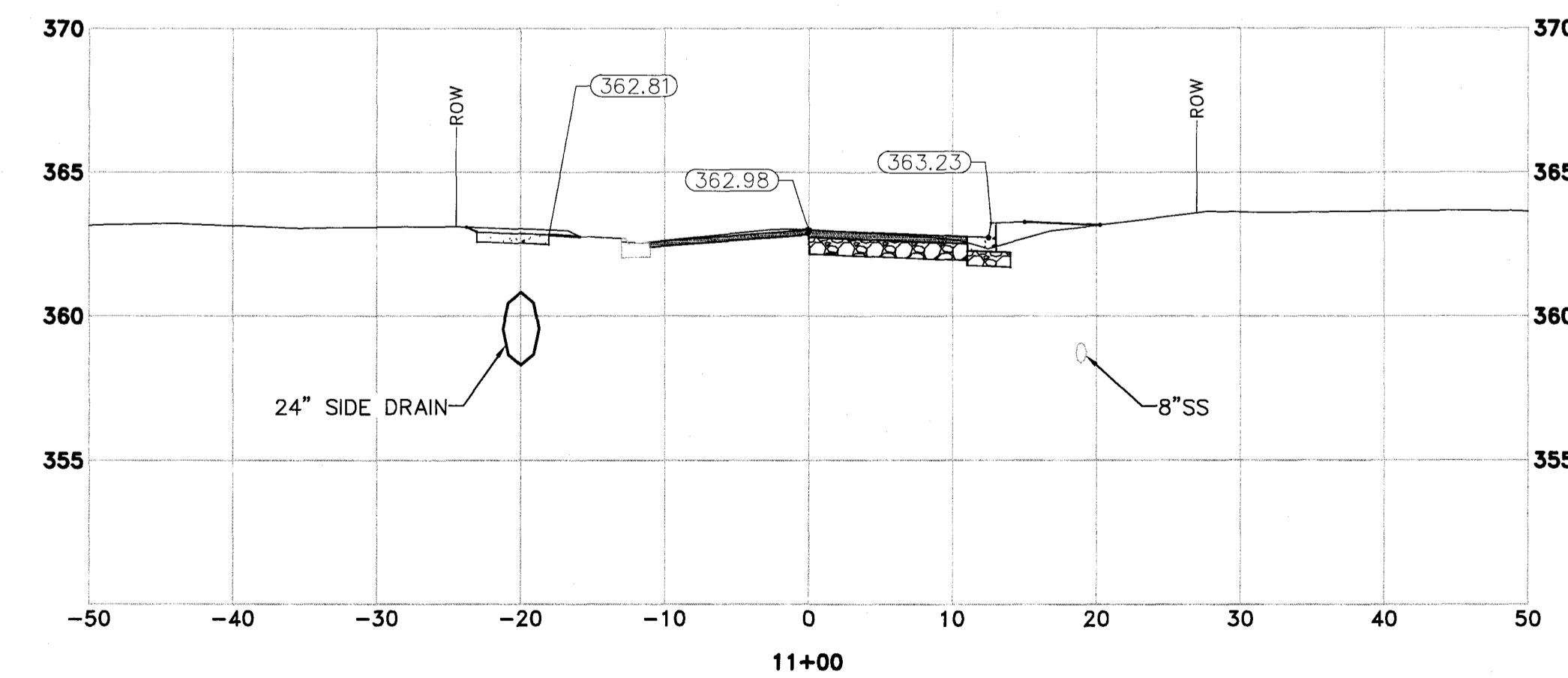
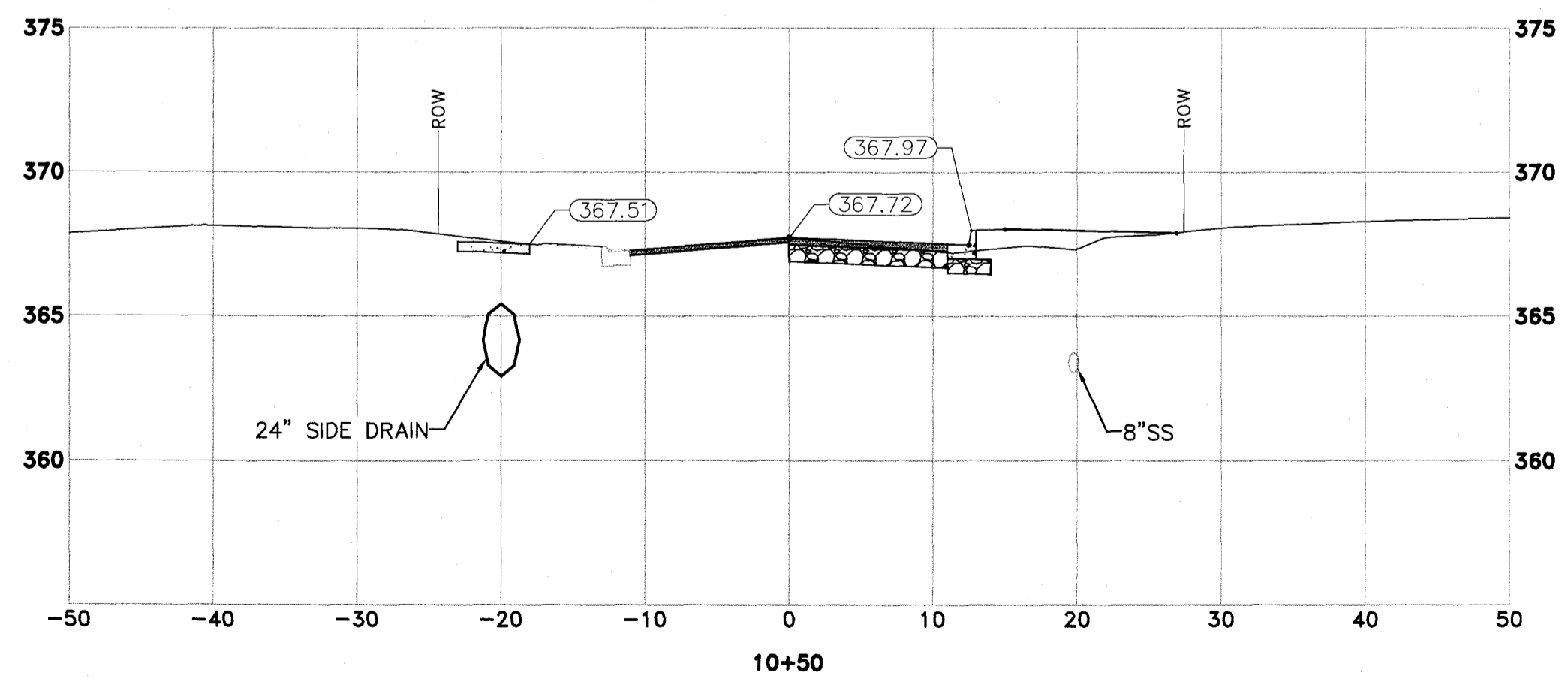
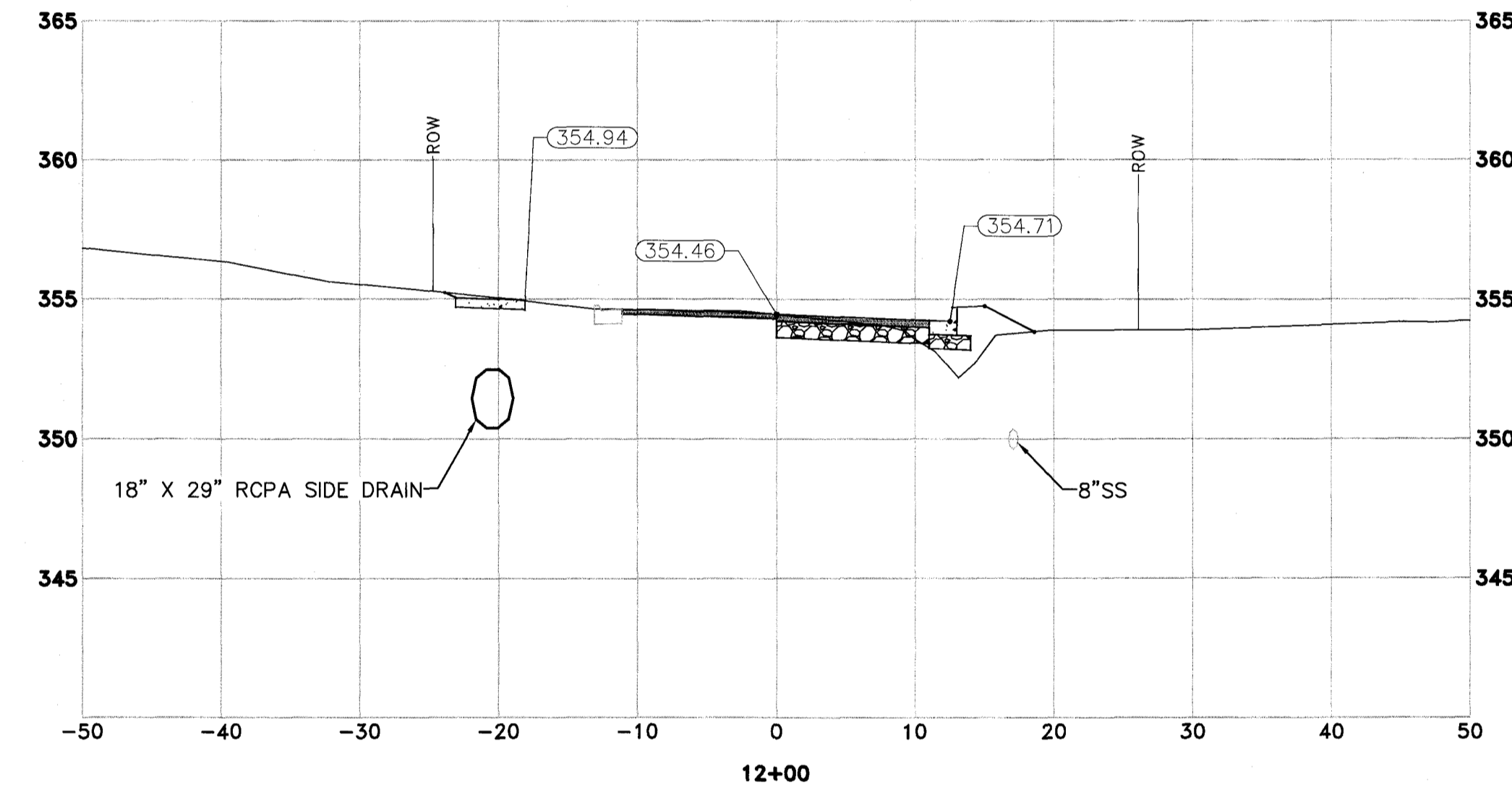
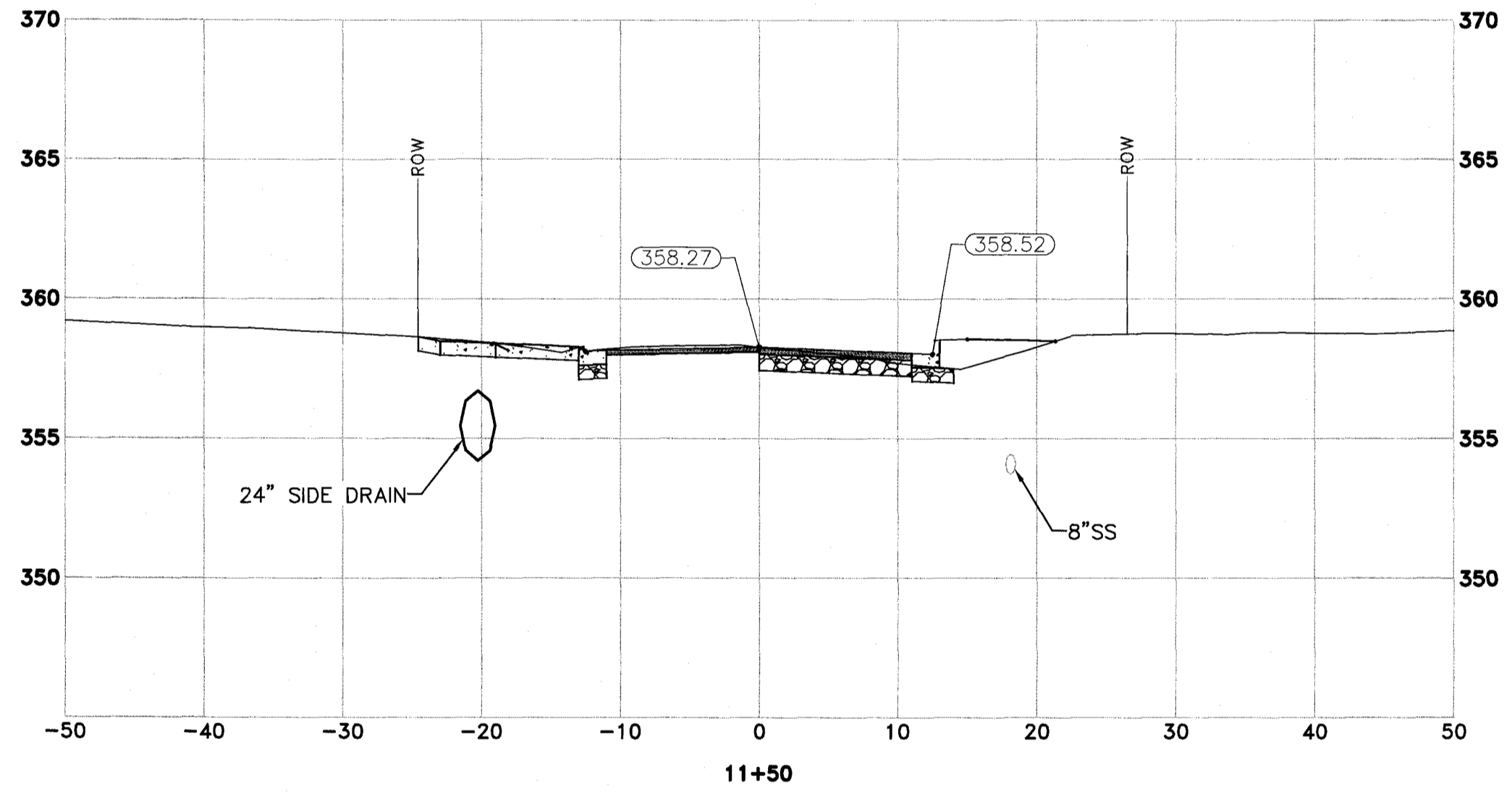
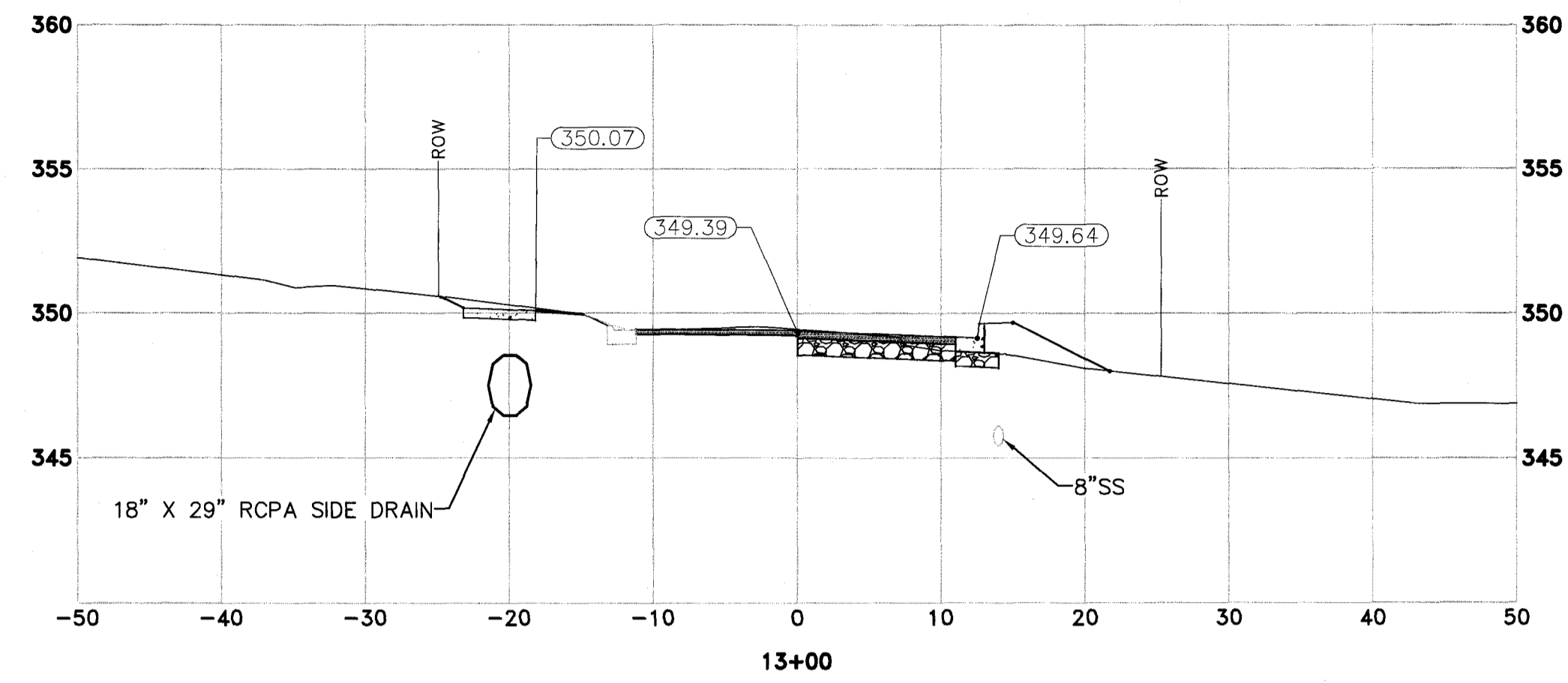
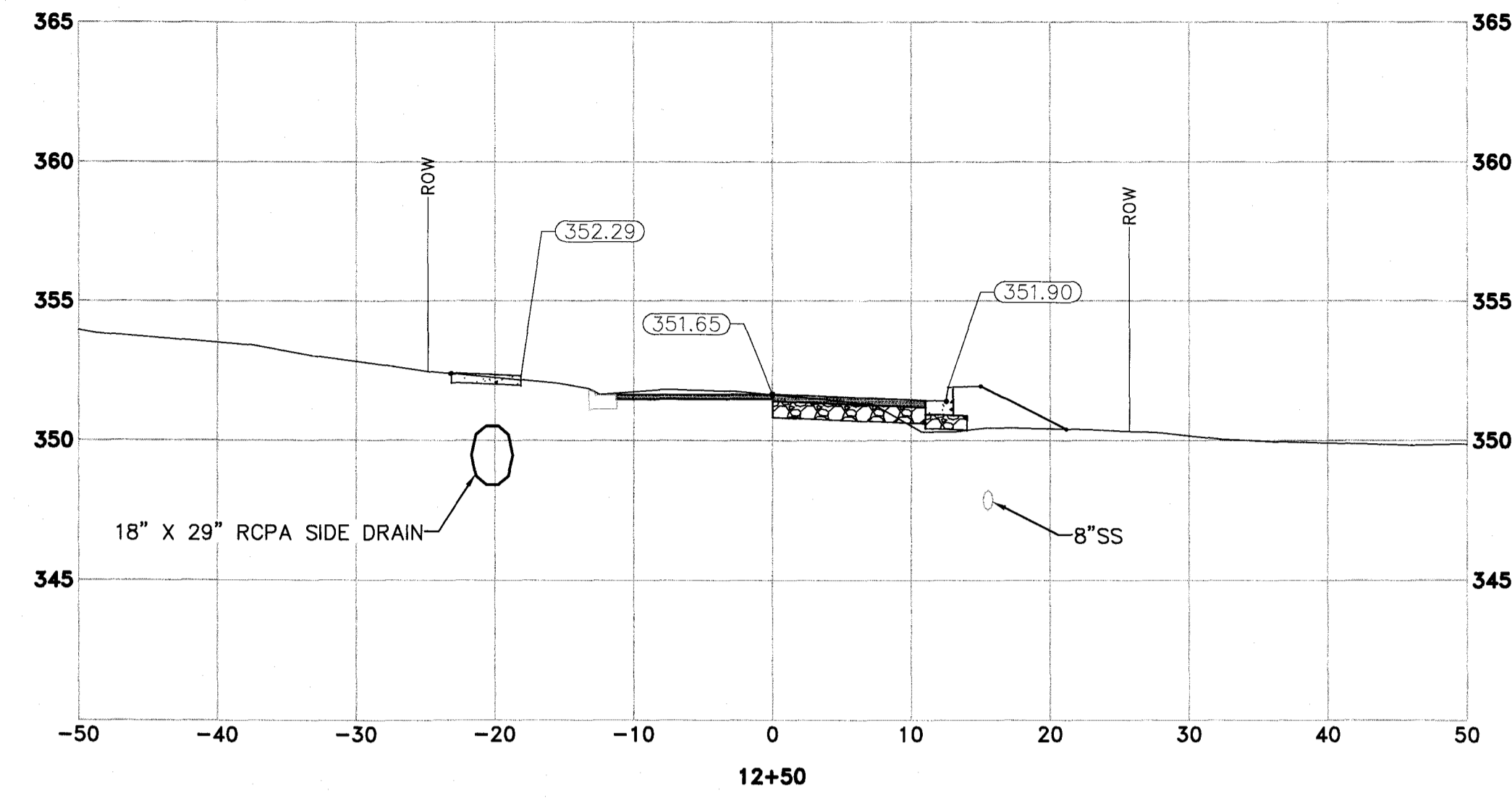
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 DEPARTMENT OF PUBLIC WORKS
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 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201


 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 17180
 BLAKE A. PEACOCK


DRAWN BY
 JCW
 DESIGNED
 BAP
 CHECKED
 JKS
 DATE
 6-20-2018
 SCALE
 1"=10'
 PROJECT NO.
 16-6-ST-1
 SHEET NO.
 5


2. 16-6-ST-1 CROSS SECTIONS WEST 24TH STREET CROSS SECTIONS, INC. 6/19/2018 9:57 AM. MIRE HERSON, LANDDTI



REVISIONS	DATE

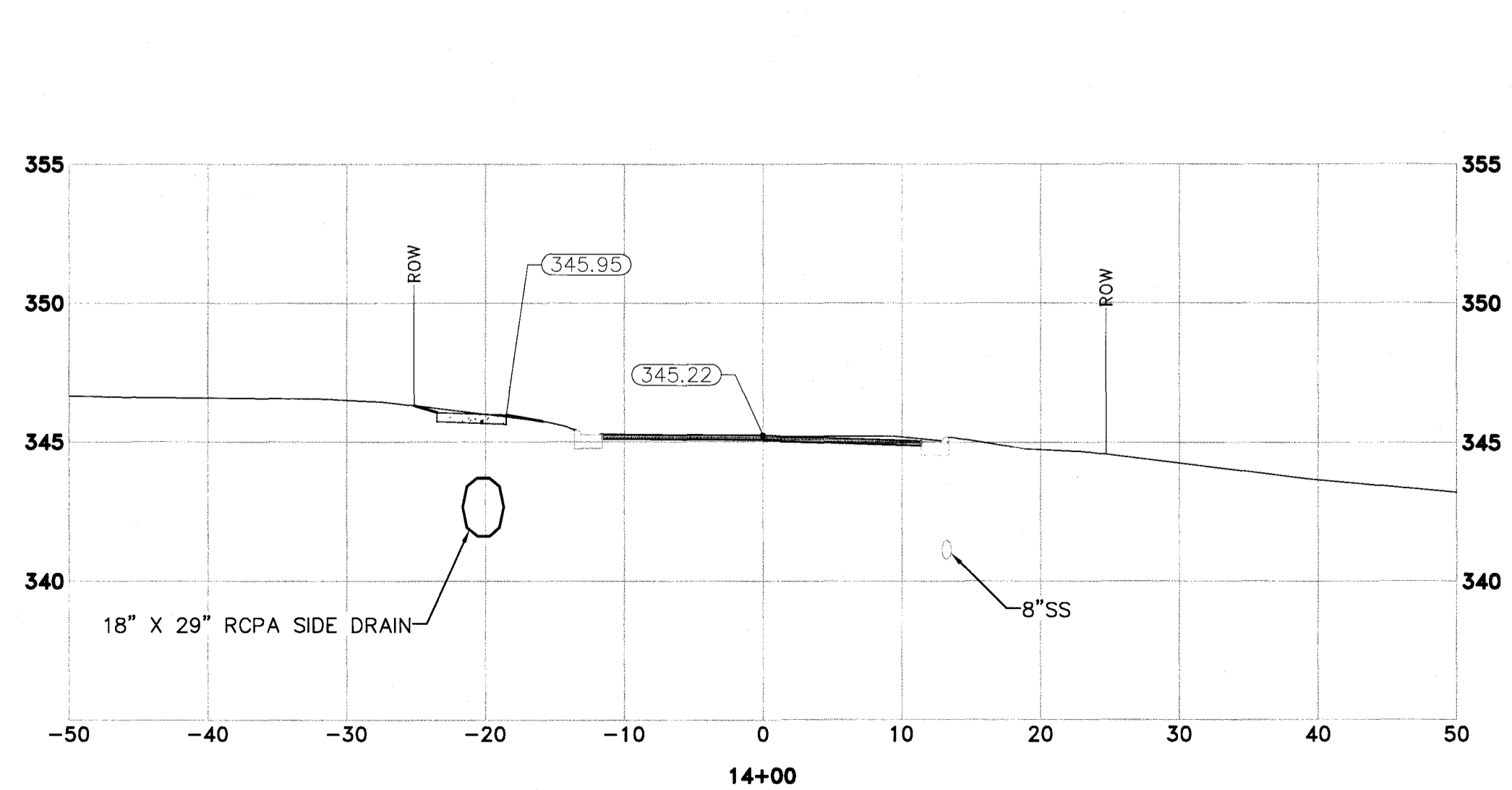
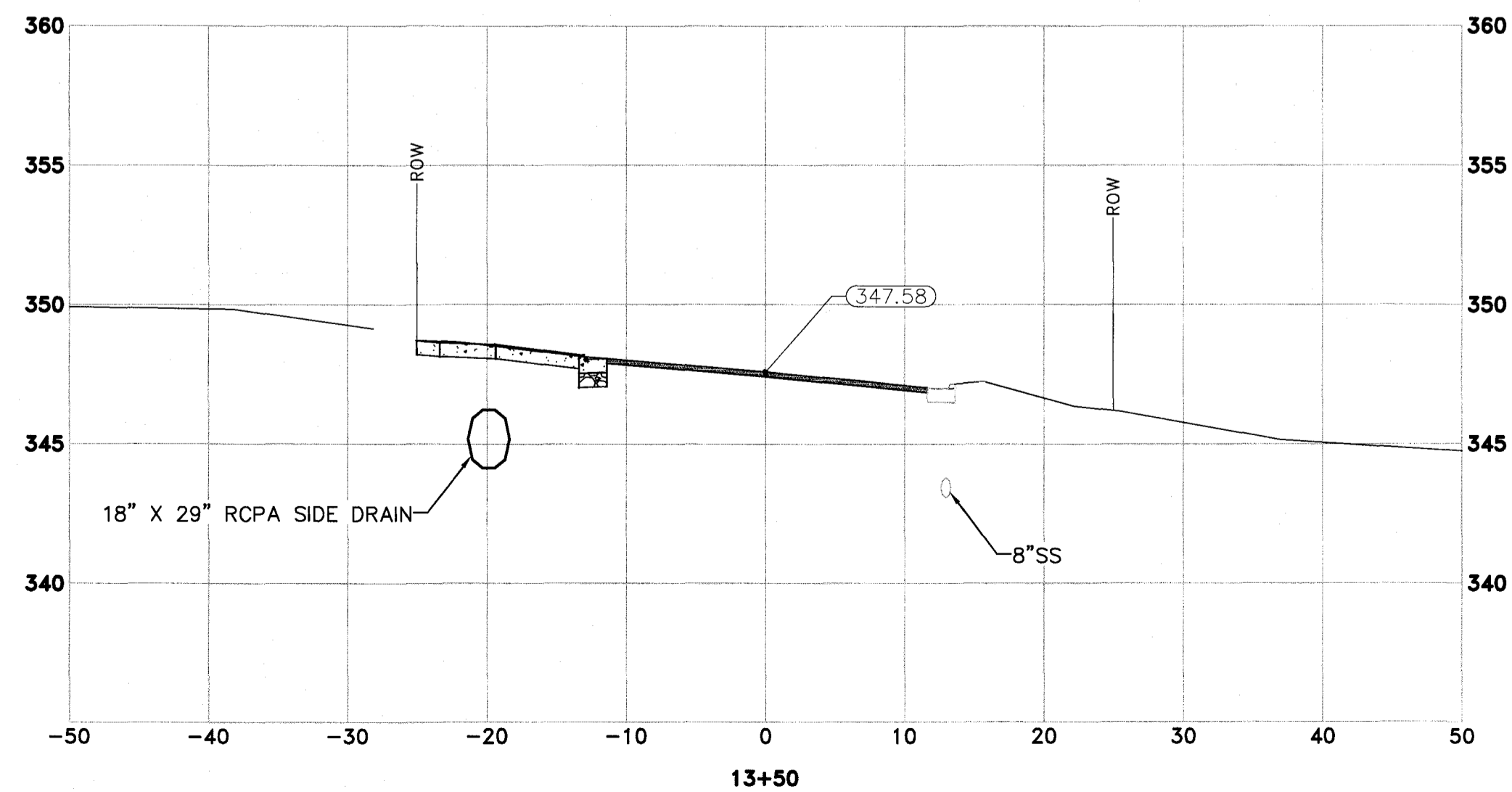
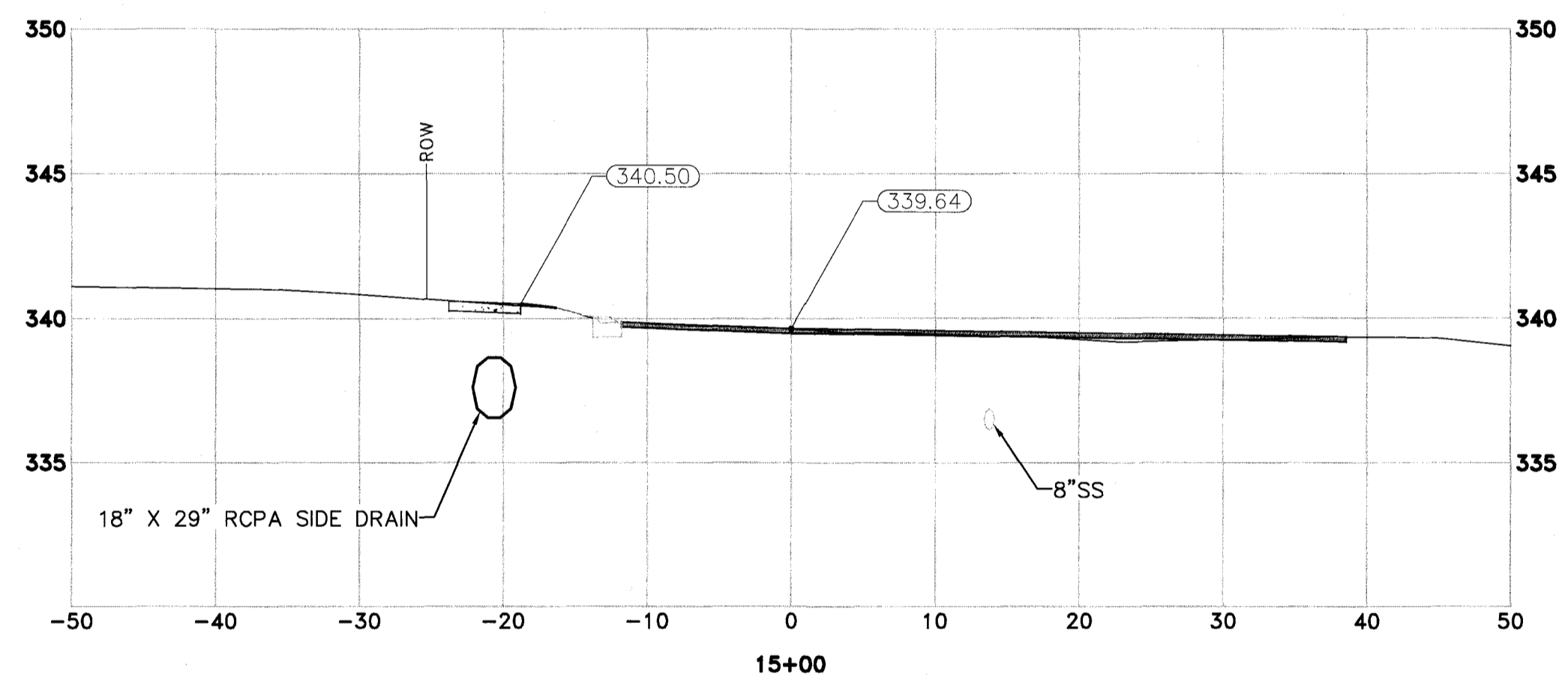
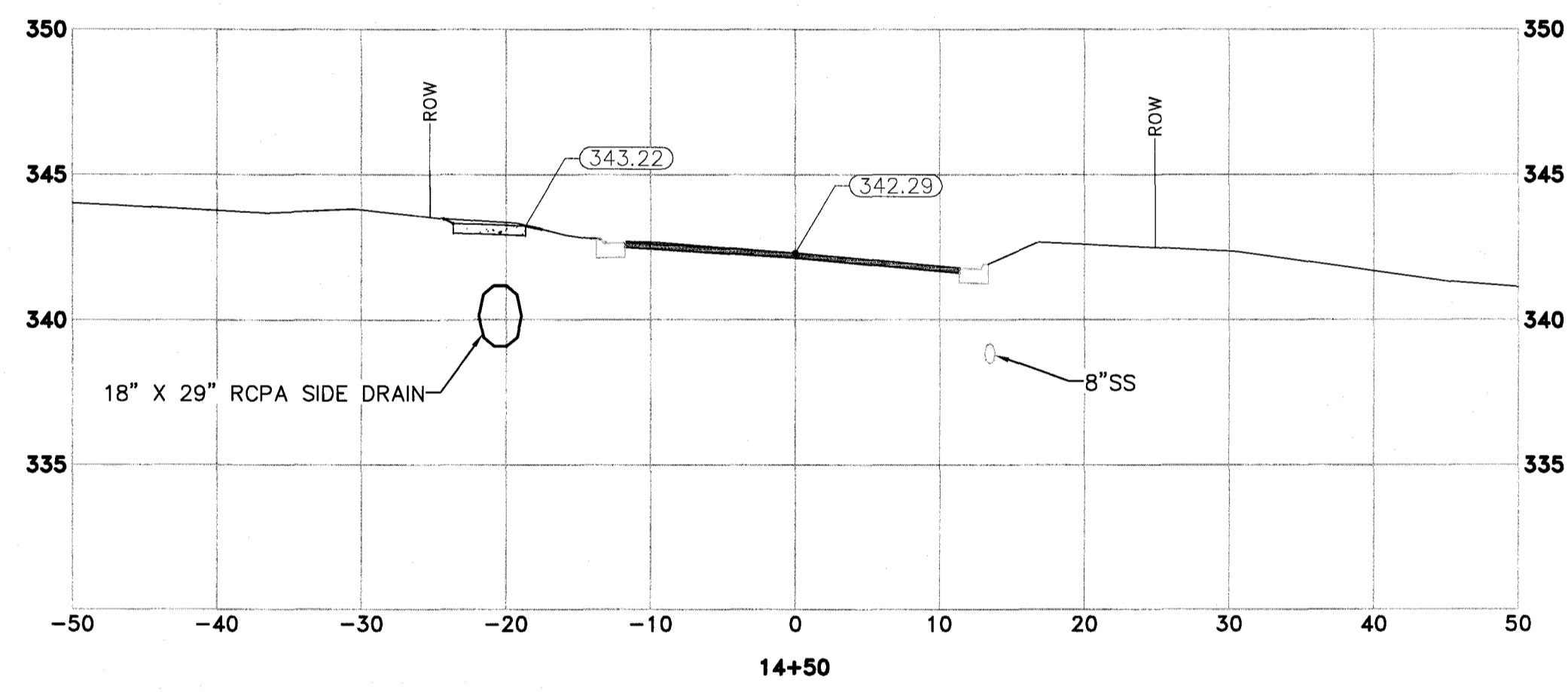
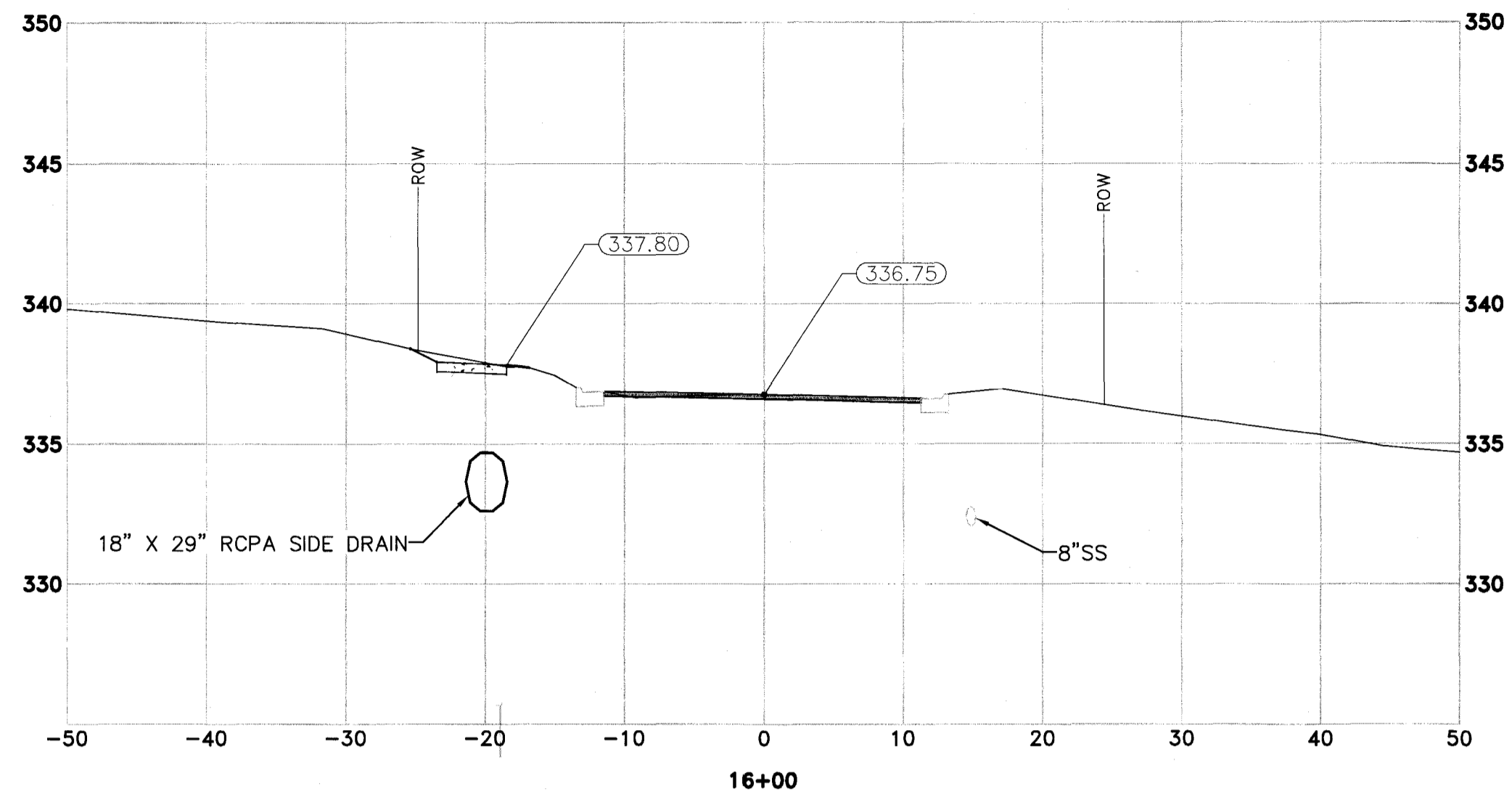
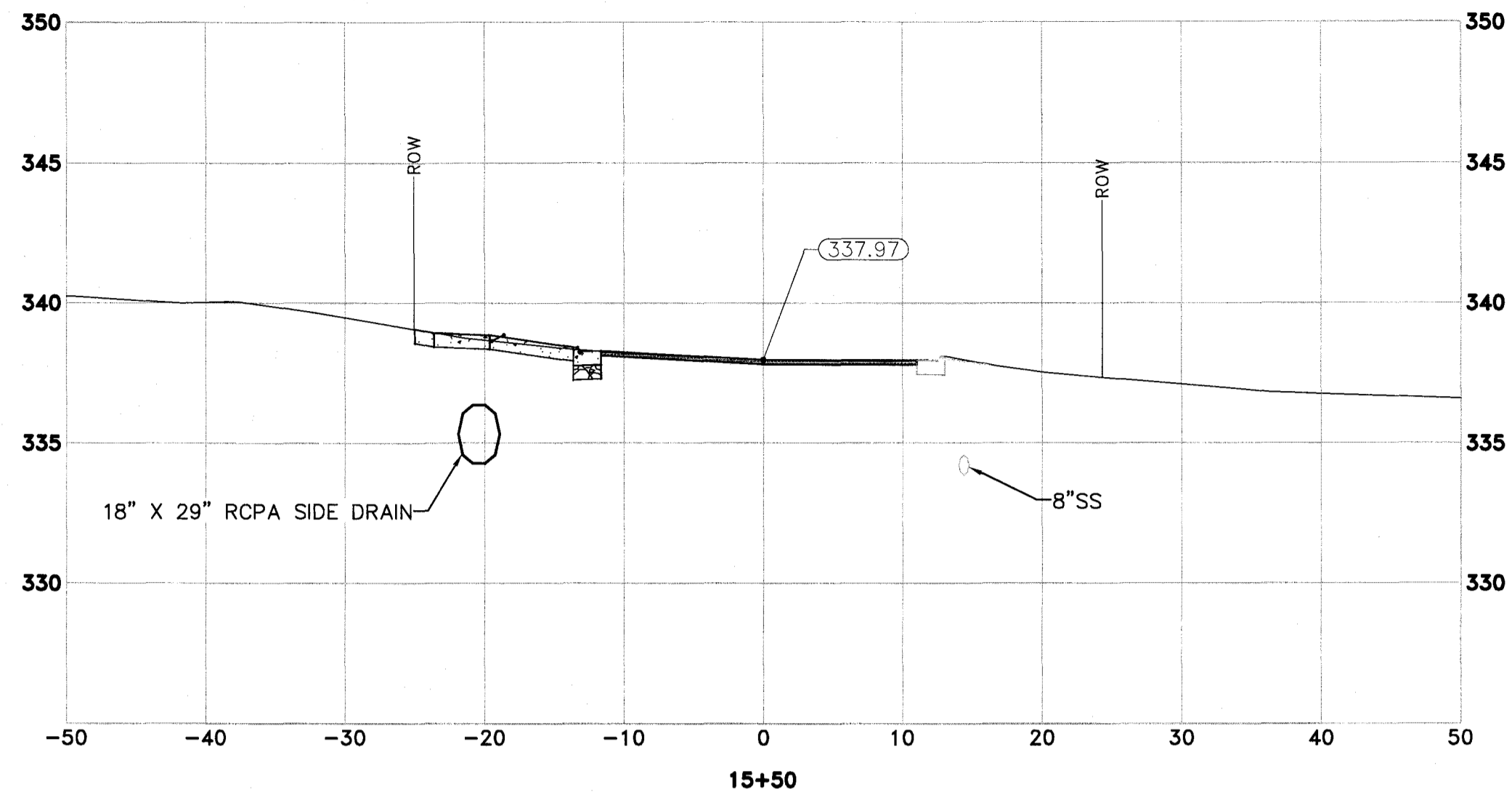
CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
CROSS SECTIONS


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 701 W. MARKHAM
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 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 17186
 BLAKE A. PEACOCK

DRAWN BY	JCW
DESIGNED	BAP
CHECKED	JKS
DATE	6-20-2018
SCALE	H:1"=10'; V:1"=5'
PROJECT NO.	16-6-ST-1
SHEET NO.	6

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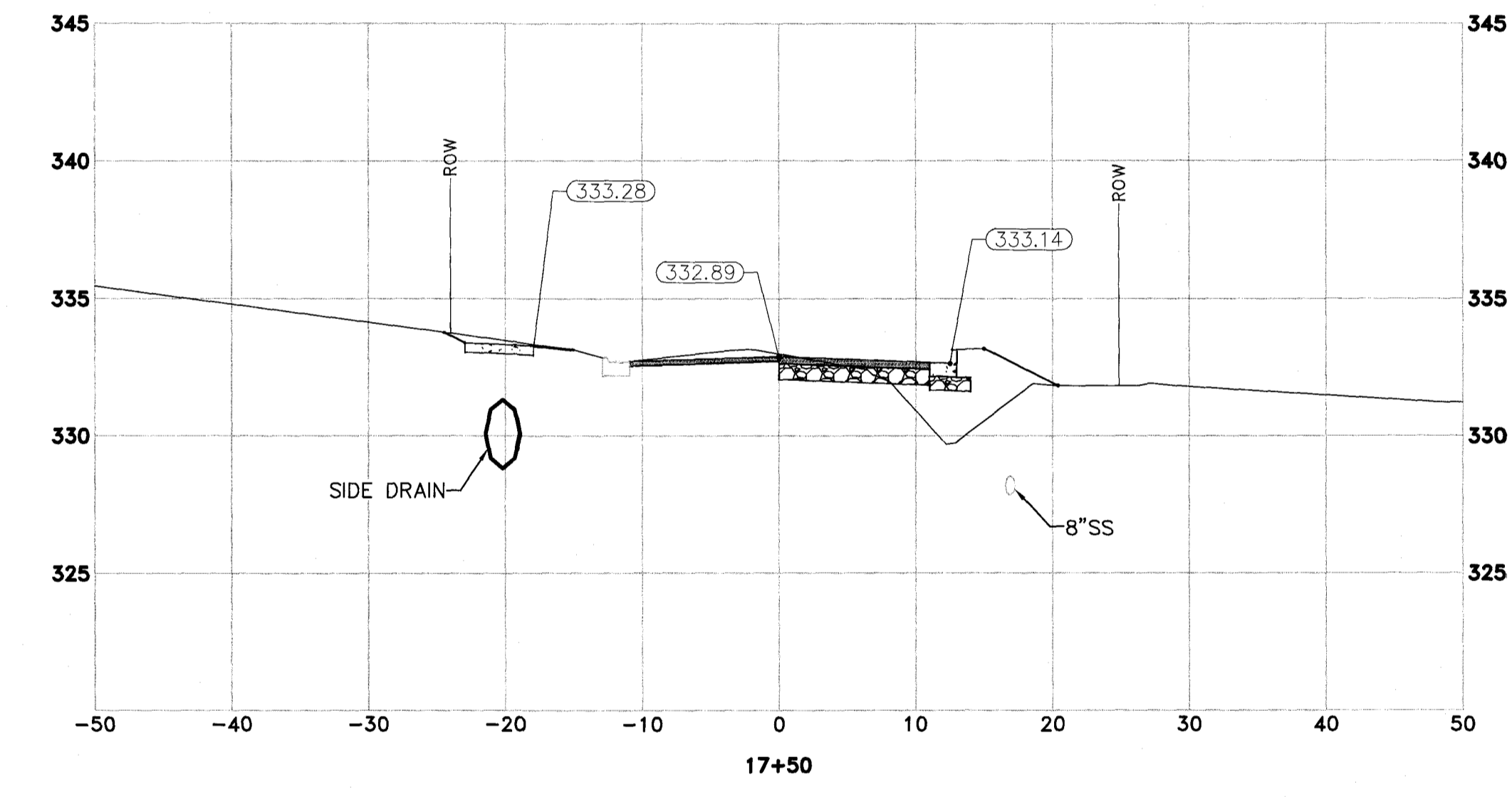
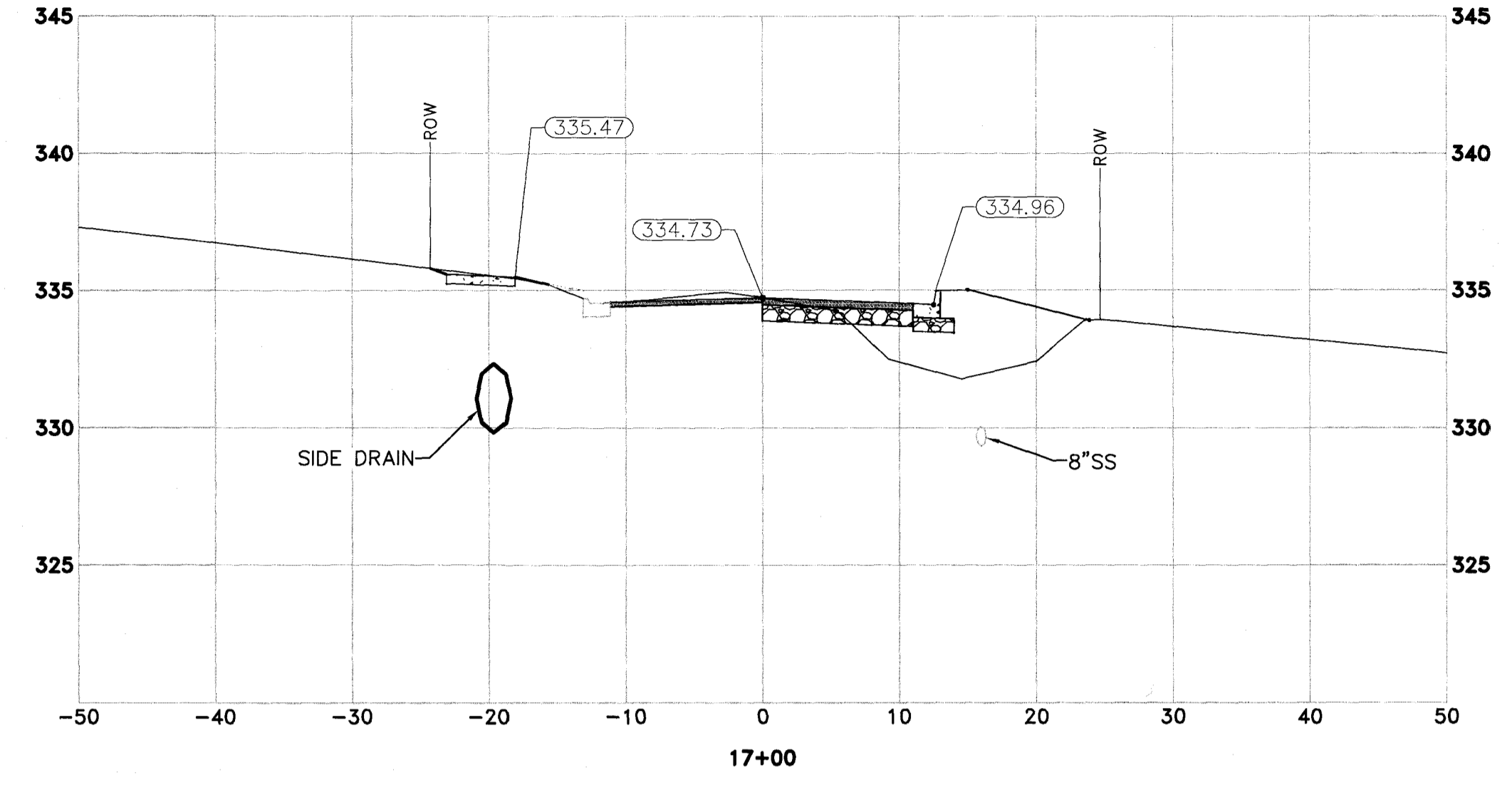
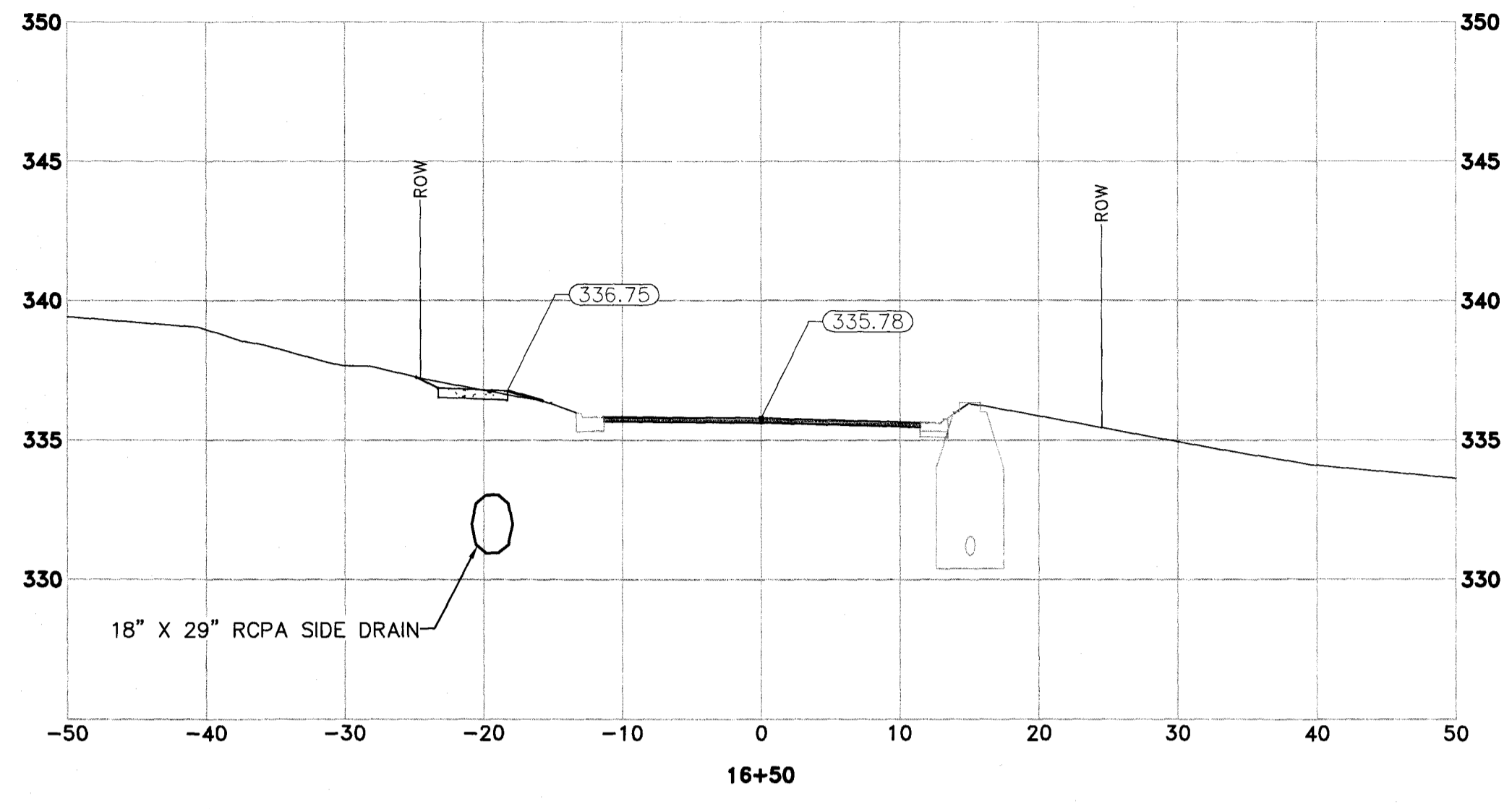
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
 WEST 24TH STREET
 CROSS SECTIONS

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STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 17180
 BLAKE A. PEACOCK


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DESIGNED	BAP
CHECKED	JKS
DATE	6-20-2018
SCALE	H:1"=10'; V:1"=5'
PROJECT NO.	16-6-ST-1
SHEET NO.	7



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
CROSS SECTIONS

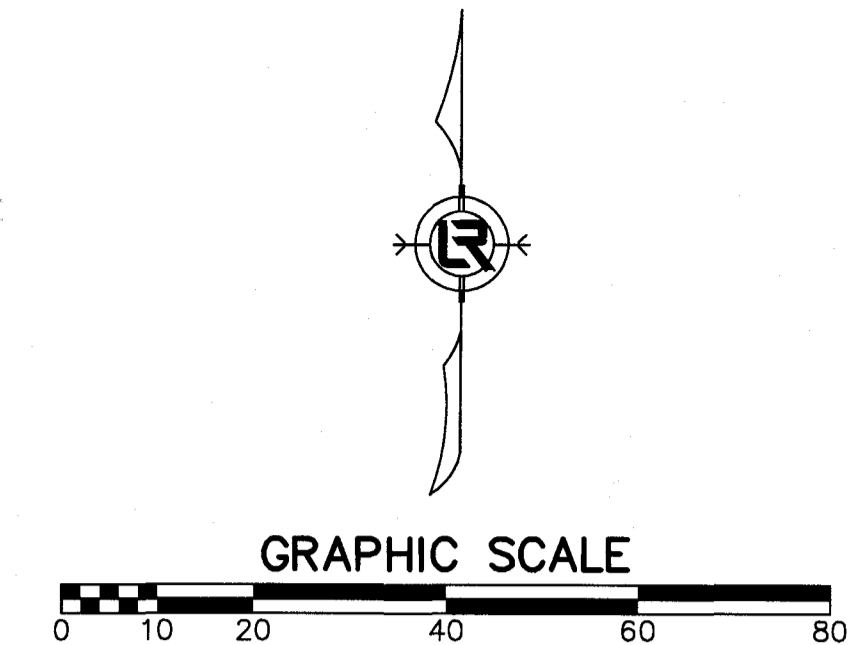
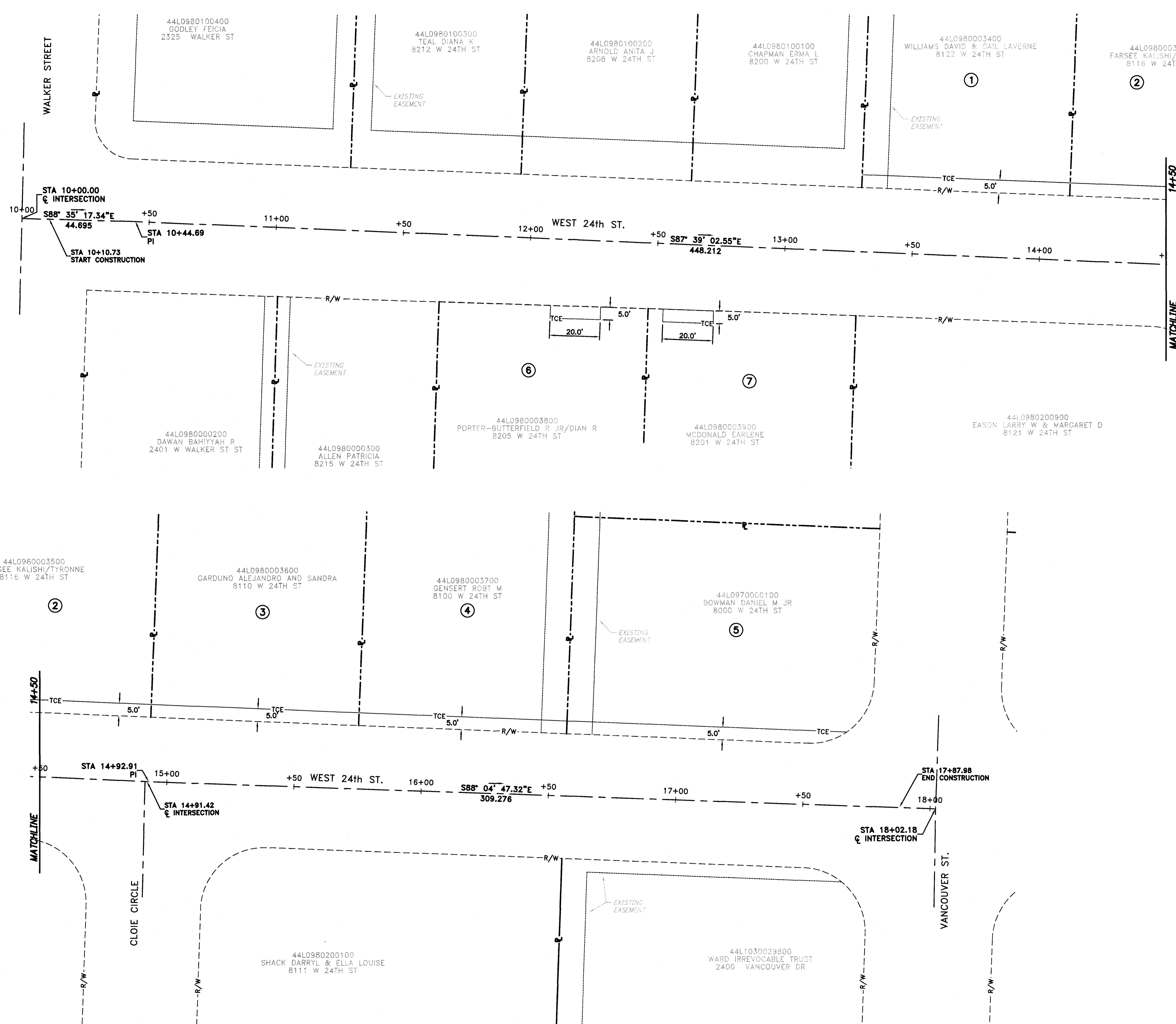

 DEPARTMENT OF PUBLIC WORKS
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 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 17180
 BLAKE A. PEACOCK

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DATE	6-20-2018
SCALE	H:1"=10'; V:1"=5'
PROJECT NO.	16-6-ST-1
SHEET NO.	8

Z:\16\2018060_LRPW_2018 - 2018 STREET & DRAINAGE PROJECT\DRAWINGS\WEST 24TH\OR CROSS SECTIONS.DWG. 6/19/2018 10:00 AM. MIKE HENSON. LAYOUT

Z:\16\2016060 (DWG) 2016 - 2018 STREET & DRAINAGE PROJECT\ARMS\WEST 24TH\TOP-SURVEY CONTROL PLANING. 6/19/2018 10:01 AM. MIKE HENSON. LAYOUT



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
 WEST 24TH STREET
 SURVEY CONTROL AND
 RIGHT OF WAY PLAN

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


STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 17180
 BLAKE A. PEACOCK

DRAWN BY	JCW
DESIGNED	BAP
CHECKED	JKS
DATE	6-20-2018
SCALE	1"=20'
PROJECT NO.	16-6-ST-1
SHEET NO.	9


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
 WEST 24TH STREET
 EROSION CONTROL PLAN

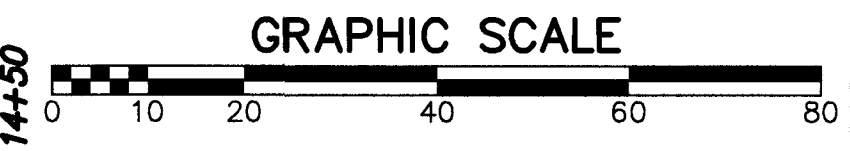
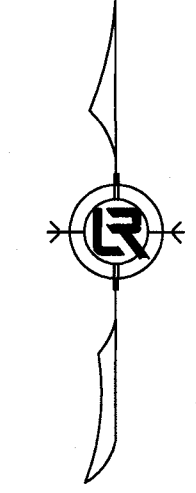
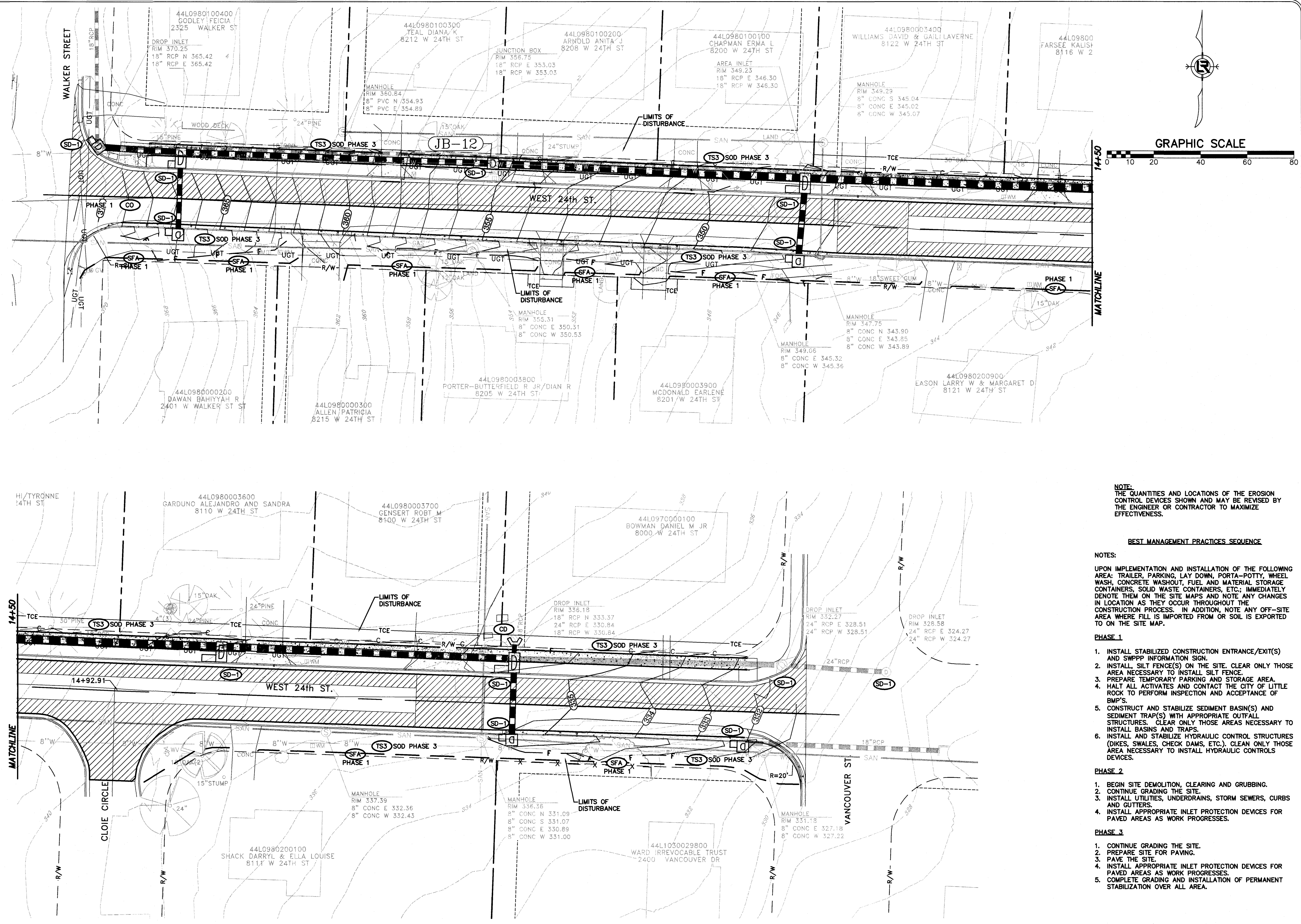
DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



STATE OF ARKANSAS
 PROFESSIONAL ENGINEER
 No. 17180
 BLAKE A. PEACOCK



DRAWN BY
 JCW
 DESIGNED
 BAP
 CHECKED
 JKS
 DATE
 6-20-2018
 SCALE
 1"=20'
 PROJECT NO.
 16-6-ST-1
 SHEET NO.
 10



NOTE:
 THE QUANTITIES AND LOCATIONS OF THE EROSION CONTROL DEVICES SHOWN AND MAY BE REVISED BY THE ENGINEER OR CONTRACTOR TO MAXIMIZE EFFECTIVENESS.

BEST MANAGEMENT PRACTICES SEQUENCE

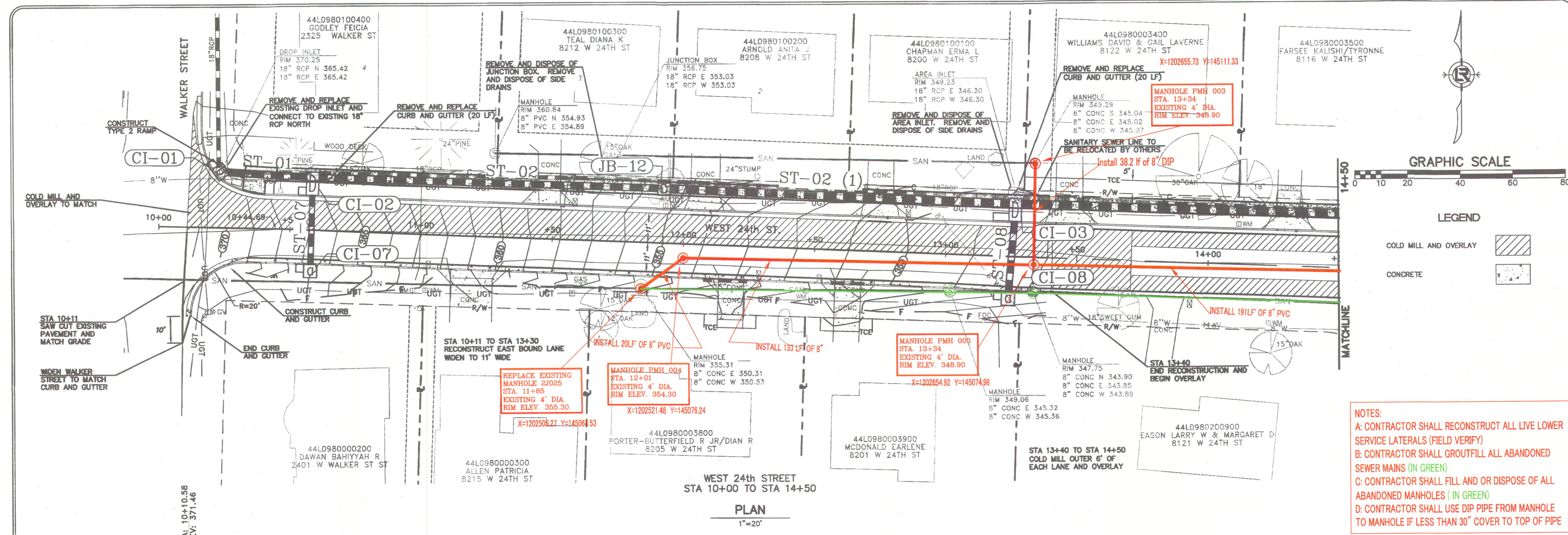
NOTES:
 UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREA: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC.; IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAP.

- PHASE 1**
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT(S) AND SWPPP INFORMATION SIGN.
 2. INSTALL SILT FENCE(S) ON THE SITE. CLEAR ONLY THOSE AREA NECESSARY TO INSTALL SILT FENCE.
 3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 4. HALT ALL ACTIVATES AND CONTACT THE CITY OF LITTLE ROCK TO PERFORM INSPECTION AND ACCEPTANCE OF BMP'S.
 5. CONSTRUCT AND STABILIZE SEDIMENT BASIN(S) AND SEDIMENT TRAP(S) WITH APPROPRIATE OUTFALL STRUCTURES. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.
 6. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (DIKES, SWALES, CHECK DAMS, ETC.). CLEAR ONLY THOSE AREA NECESSARY TO INSTALL HYDRAULIC CONTROLS DEVICES.

- PHASE 2**
1. BEGIN SITE DEMOLITION, CLEARING AND GRUBBING.
 2. CONTINUE GRADING THE SITE.
 3. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
 4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.

- PHASE 3**
1. CONTINUE GRADING THE SITE.
 2. PREPARE SITE FOR PAVING.
 3. PAVE THE SITE.
 4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
 5. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREA.

Z:\PROJECTS\16-6-ST-1\16-6-ST-1-EROSION CONTROL.DWG, 6/19/2018 10:03 AM, MIKE HENSON, LAYOUT



REVISIONS

NO.	DATE	DESCRIPTION

GRAPHIC SCALE
0 10 20 40 60 80

LEGEND

- COLD MILL AND OVERLAY
- CONCRETE

NOTES:

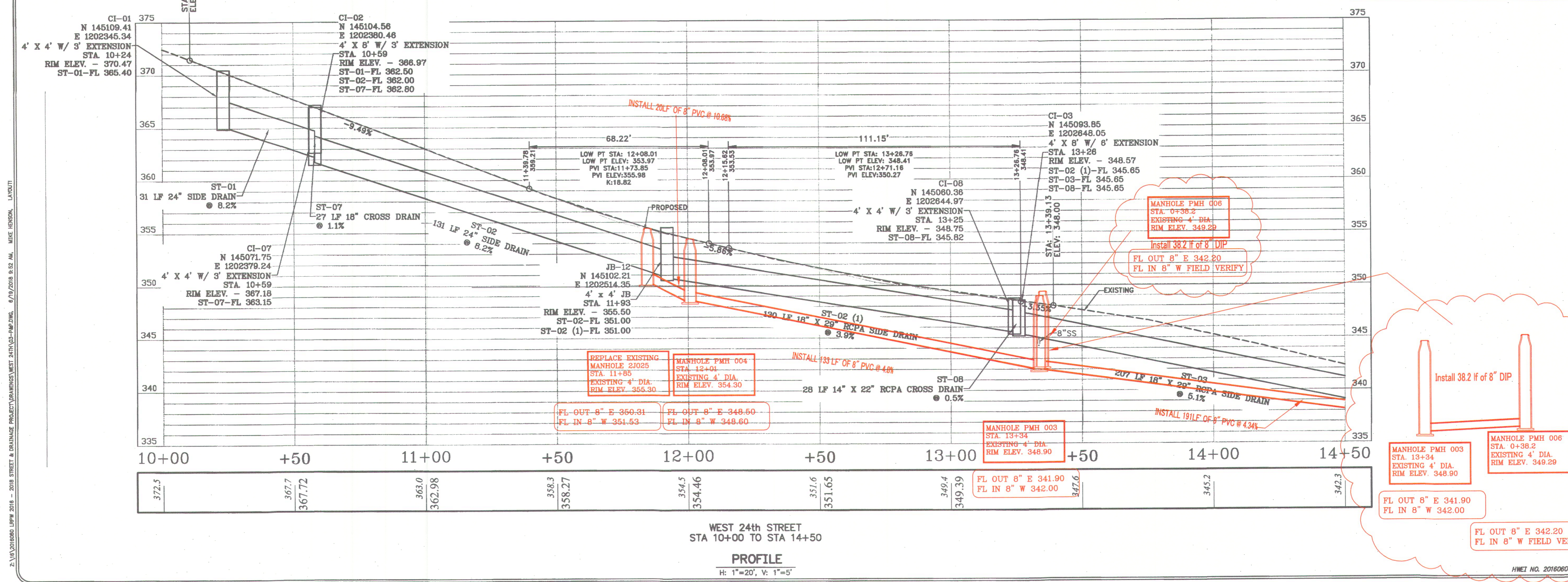
- CONTRACTOR SHALL RECONSTRUCT ALL LIVE LOWER SERVICE LATERALS (FIELD VERIFY)
- CONTRACTOR SHALL GROUTFILL ALL ABANDONED SEWER MAINS (IN GREEN)
- CONTRACTOR SHALL FILL AND OR DISPOSE OF ALL ABANDONED MANHOLES (IN GREEN)
- CONTRACTOR SHALL USE DIP PIPE FROM MANHOLE TO MANHOLE IF LESS THAN 30" COVER TO TOP OF PIPE

CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
Sewer Relocation Plan 1
STA 10+00 TO STA 14+50

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

REGISTERED PROFESSIONAL ENGINEER
VINCENT HOTTO
No. 9825
STATE OF ARKANSAS

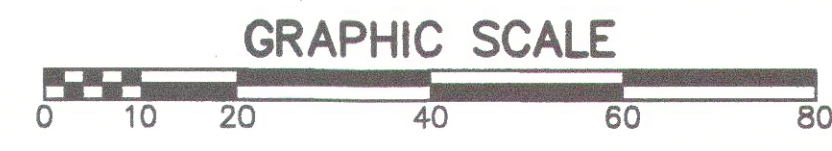
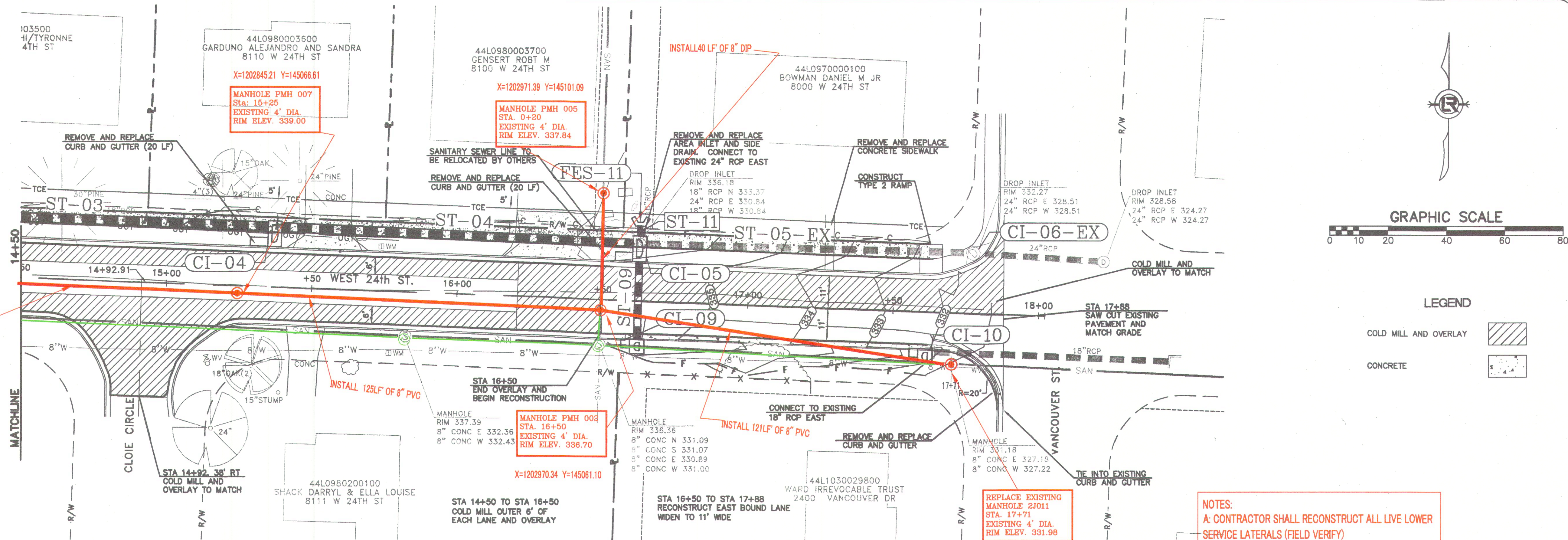
DRAWN BY JCW
DESIGNED BAP
CHECKED JKS
DATE 6-20-2018
SCALE H:1"=20'; V:1"=5'
PROJECT NO. 16-6-ST-1
SHEET NO. 35



This seal is for sewer relocation only.

DRAWN BY JCW
DESIGNED BAP
CHECKED JKS
DATE 6-20-2018
SCALE H:1"=20'; V:1"=5'
PROJECT NO. 16-6-ST-1
SHEET NO. 35

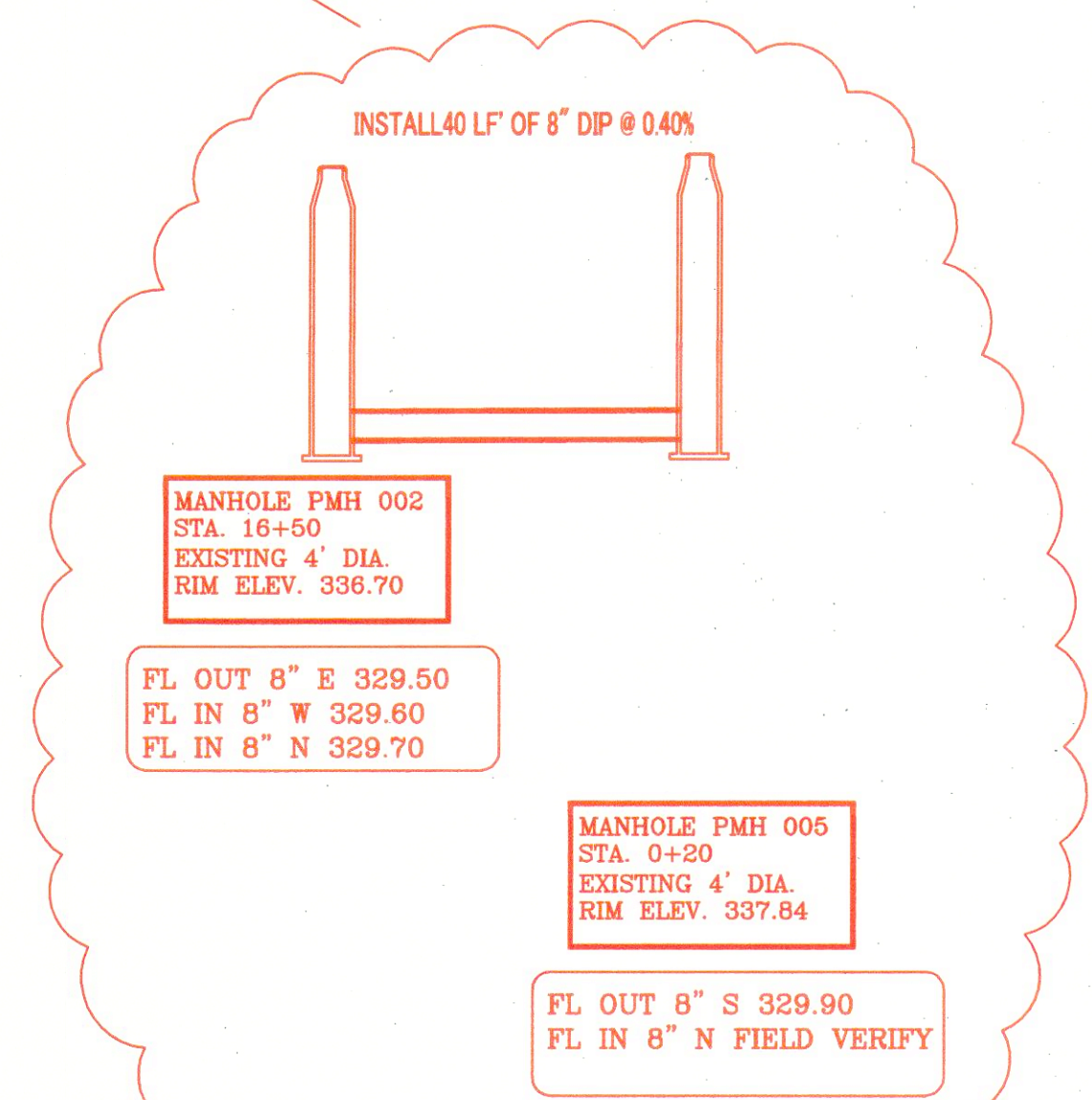
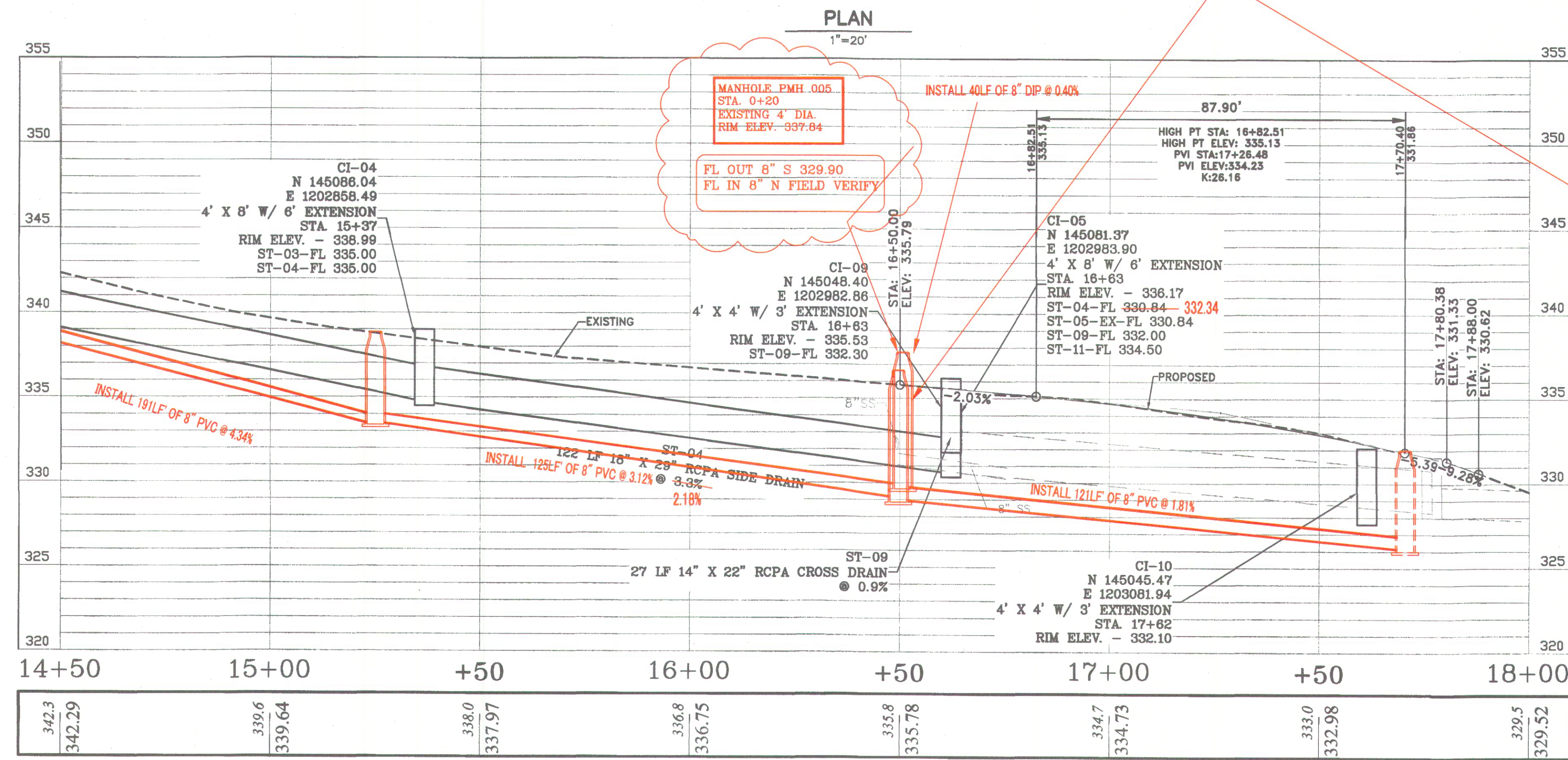
2: N:\2018060 LRPW 2018 - 2018 STREET & DRAINAGE PROJECT\DRAWINGS\WEST 24TH\5180103-SEWER.dwg, 6/19/2018 8:54 AM, MIKE HENDON, LAYOUT



LEGEND

COLD MILL AND OVERLAY	
CONCRETE	

- NOTES:
- A: CONTRACTOR SHALL RECONSTRUCT ALL LIVE LOWER SERVICE LATERALS (FIELD VERIFY)
 - B: CONTRACTOR SHALL GROUTFILL ALL ABANDONED SEWER MAINS (IN GREEN)
 - C: CONTRACTOR SHALL FILL AND/OR DISPOSE OF ALL ABANDONED MANHOLES (IN GREEN)
 - D: CONTRACTOR SHALL USE DIP PIPE FROM MANHOLE TO MANHOLE IF LESS THAN 30' COVER TO TOP OF PIPE



REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 24TH STREET
Sewer Relocation Plan 2
STA 14+50 TO END

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

(This seal is for sewer relocation only)

DRAWN BY
DESIGNED
CHECKED
DATE
SCALE
PROJECT NO.
SHEET NO.

JCW
BAP
JKS
6-20-2018
H:1"=20'; V:1"=5'
16-6-ST-1
4S