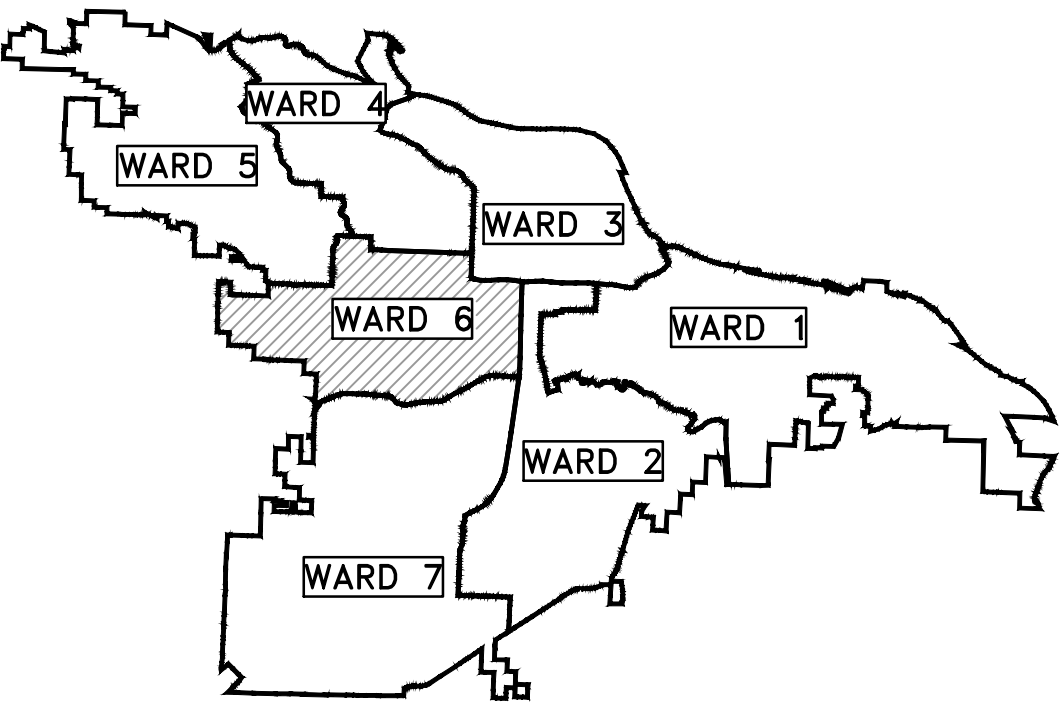


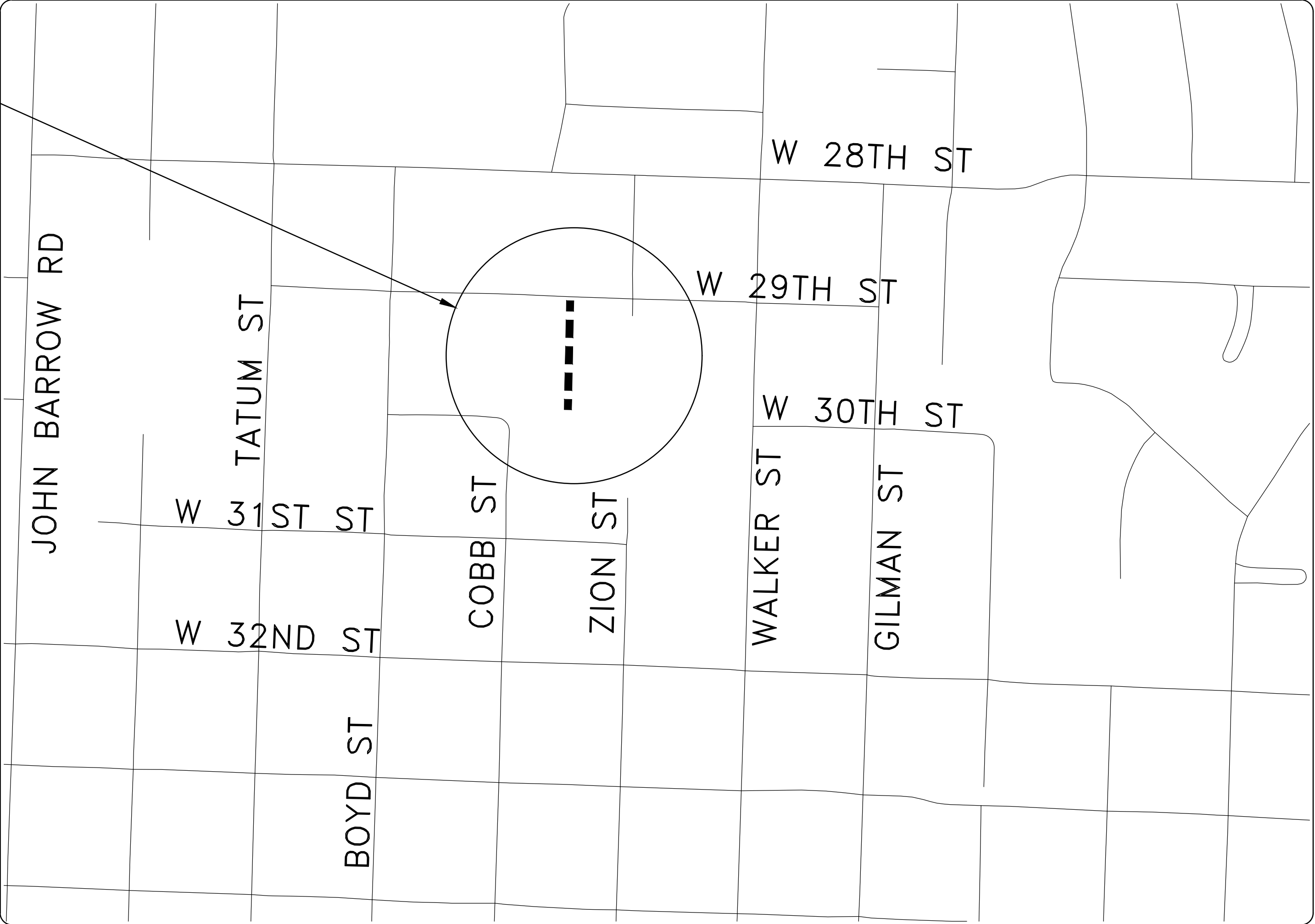
ZION SQUARE IMPROVEMENTS

29TH ST TO 30TH ST



PROJECT LOCATION – WARD 6

PROJECT LOCATION
LAT: 34°43'36"N
LONG: 92°22'4"W



SHEET NO.	TITLE
C0	COVER SHEET
C1	GENERAL NOTES, LEGEND AND QUANTITY
C2	TYPICAL SECTIONS
C3	EXISTING CONDITIONS I
C4	ZION SQUARE PLAN
C5	DRAINAGE PROFILE
C6	UTILITY PLAN
C6.1	CAW DETAILS I
C6.2	CAW DETAILS II
C7	CROSS SECTIONS
C8	EROSION CONTROL PLAN - PHASE 1
C9	EROSION CONTROL PLAN - PHASE 2&3
C10	SURVEY CONTROL PLAN
C11	PROPERTY OWNERSHIP MAP - I
C12	MAINTENANCE OF TRAFFIC PLAN



Know what's below.
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DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 WEST MARKHAM STREET
LITTLE ROCK, ARKANSAS 72201

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GarNat Engineering, LLC

P.O. Box 116 (72018) Ph (501) 408-4650
3825 Mt Carmel Rd Fx (888) 900-3068
Bryant, AR 72022 garnatengineering@gmail.com

REVISIONS	DATE
REVISED PER ADH	7/17/24
ADDED DETENTION	3-24-25

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS
COVER SHEET



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





06-06-2024

DRAWN BY TM
DESIGNED VJW & TM
CHECKED VJW
DATE 06-06-2024
SCALE N.T.S.
PROJECT NO. 23037
SHEET NO. C0

24-Mar-2025

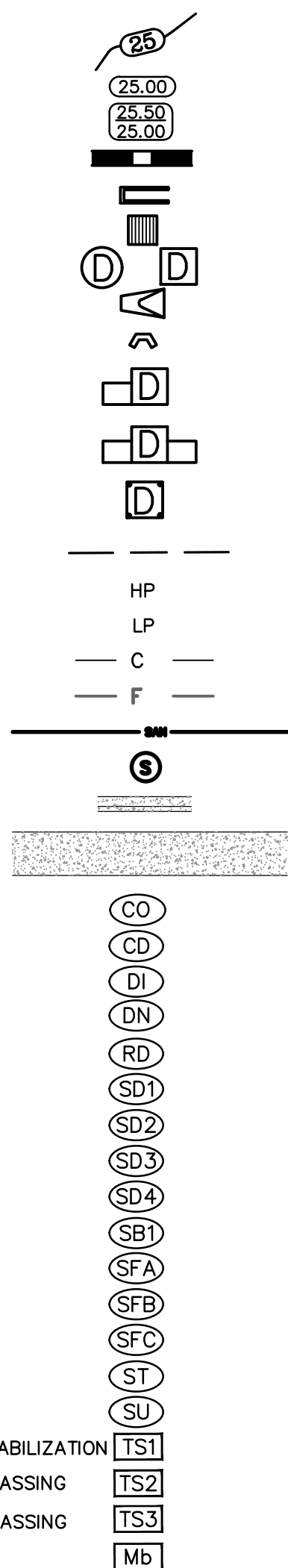
PAY ITEM ADDED:

10.05	CURB INLETS 5' BOX
SP	5'X5' BOX - OUTLET STRUCTURE
13.42	STORM DRAIN PIPE, 42" (SIDE DRAIN)
13.42	STORM DRAIN PIPE, 42" (CROSS DRAIN)

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	⊗ D
SANITARY SEWER MANHOLE	⊗ S
TELEPHONE MANHOLE	⊗ T
ELECTRIC MANHOLE	⊗ E
TELEPHONE BOX	⊞ T
ELECTRIC BOX	⊞ E
CABLE BOX	⊞ C
UTILITY POLE	⊞ U
GUY WIRE	⌋
LIGHT POLE	⊗
POST OR POLE (TYPE AS NOTED)	⊗
MAILBOX	⊞ M
DECIDUOUS TREE	⊗
EVERGREEN/CONIFEROUS TREE	⊗
BUSH	⊗
PROPERTY LINE	— — — — —
SETBACK LINE	— — — — —
EASEMENT LINE	— — — — —
CURB	— — — — —
FENCE	— X — X —
OVERHEAD UTILITY	— OHP — OHP —
UNDERGROUND TELEPHONE	— UGT — UGT — UGT —
UNDERGROUND ELECTRIC	— UGE — UGE — UGE —
WATER LINE	— 8" W — 8" W —
SEWER LINE	— SAN —
GAS LINE	— GAS — GAS —
STORM SEWER/CULVERT	— 24" CMP/RCP/DIP —
CONTOUR LINE	— 650 —

CONTOUR
SPOT ELEVATION
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 – 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



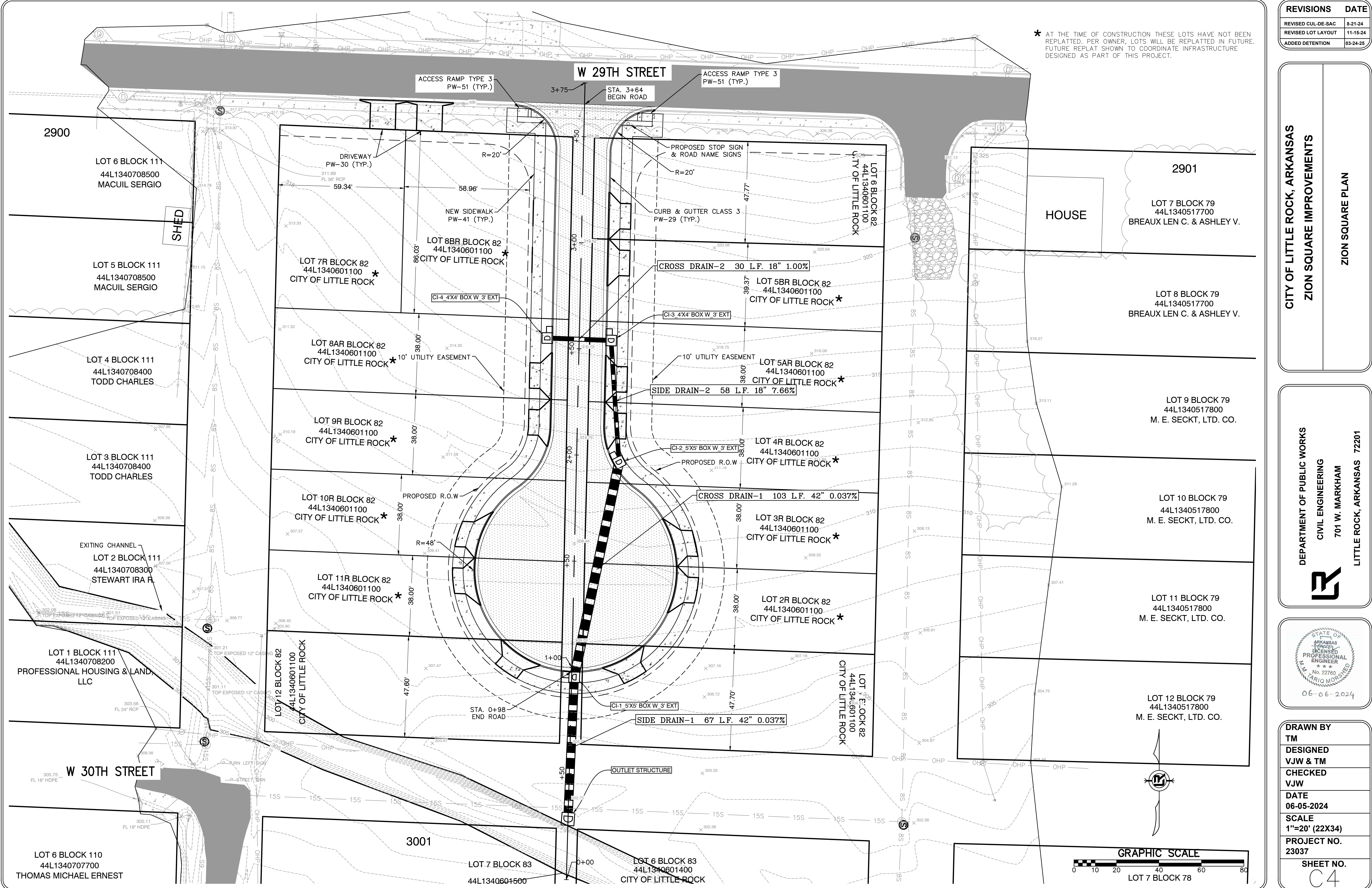
REVISIONS	DATE
REVISED CUL-DE-SAC	8-21-24
ADDED DETENTION	3-24-25

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS

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



DRAWN BY TM
DESIGNED VJW & TM
CHECKED VJW
DATE 06-06-2024
SCALE 1"=20' (22X34)
PROJECT NO. 23037
SHEET NO. C1



* AT THE TIME OF CONSTRUCTION THESE LOTS HAVE NOT BEEN REPLATED. PER OWNER, LOTS WILL BE REPLATED IN FUTURE. FUTURE REPLAT SHOWN TO COORDINATE INFRASTRUCTURE DESIGNED AS PART OF THIS PROJECT.

REVISIONS	DATE
REVISED CUL-DE-SAC	8-21-24
REVISED LOT LAYOUT	11-15-24
ADDED DETENTION	03-24-25

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS
ZION SQUARE PLAN

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

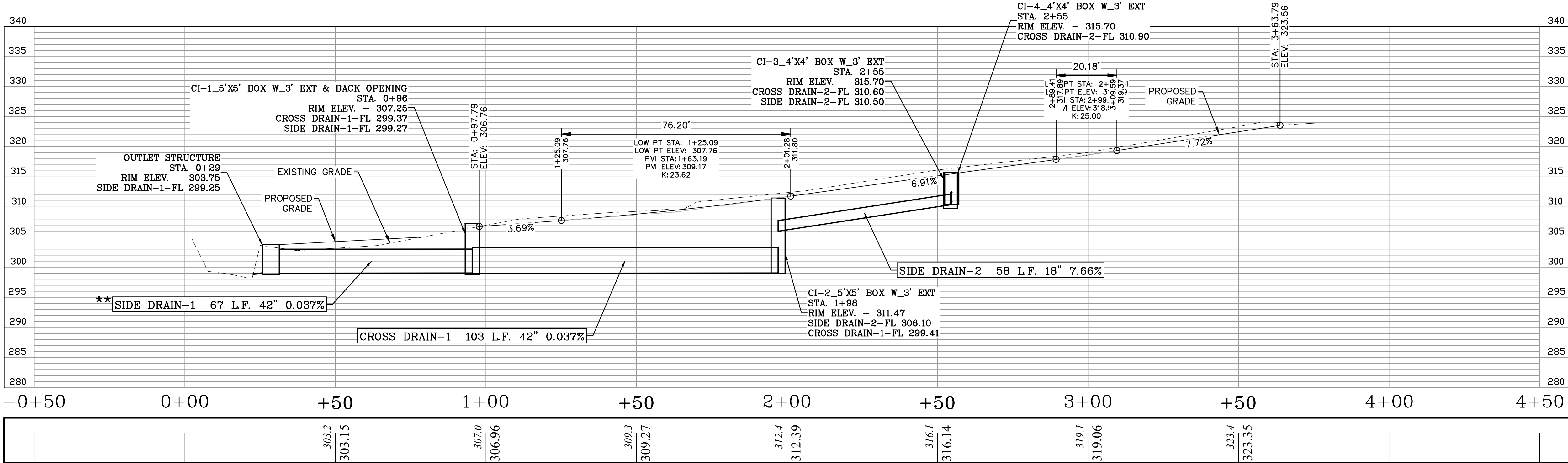


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TM
DESIGNED
VJW & TM
CHECKED
VJW
DATE
06-05-2024
SCALE
1"=20' (22X34)
PROJECT NO.
23037
SHEET NO.
C4

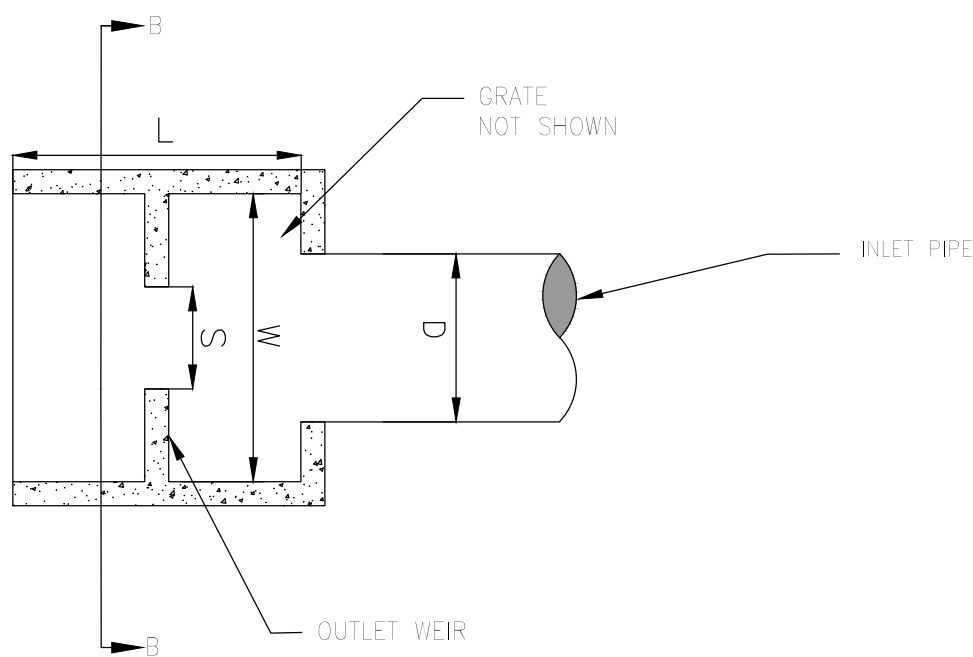
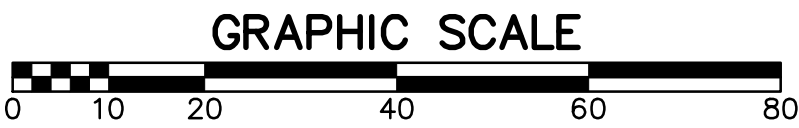
****HDPE PIPE MINIMUM****
COVER REQUIREMENTS:

42" HDPE - 29" MIN. COVER

IF THERE IS NOT MINIMUM COVER THEN
THE PIPE NEEDS STRAPS
TO BE SECURED.**

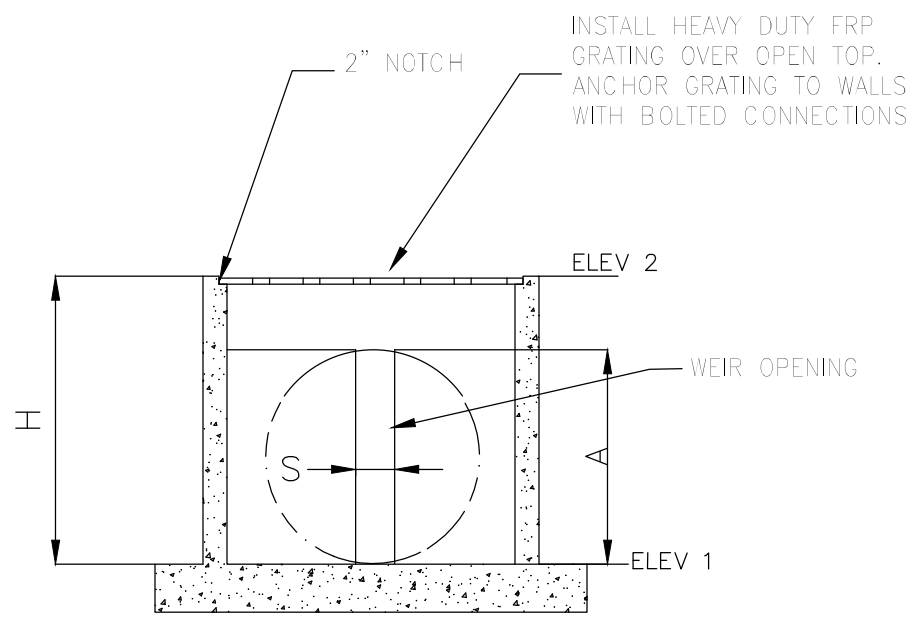


ZION SQUARE



OUTLET WEIR STRUCTURE
PLAN VIEW

NOT TO SCALE



OUTLET WEIR STRUCTURE
SECTION B-B

NOT TO SCALE

DETENTION OUTLET NOTES:

- ALL CONCRETE WALLS SHALL BE A MINIMUM OF 6" THICK & REINFORCED WITH #4'S @ 12" O.C. BOTH WAYS.
- BOTTOM SLAB SHALL BE 12" THICK & REINFORCED WITH #4'S @ 12" O.C. BOTH WAYS.

OUTLET WEIR STRUCTURE							
L	W	H	ELEV 1	ELEV 2	S	A	D
5'-0"	5'-0"	4'-6"	299.25	303.75	0'-7"	3'-6"	42"

REVISIONS	DATE
REVISED CUL-DE-SAC	8-21-24
ADDED DETENTION	3-24-25

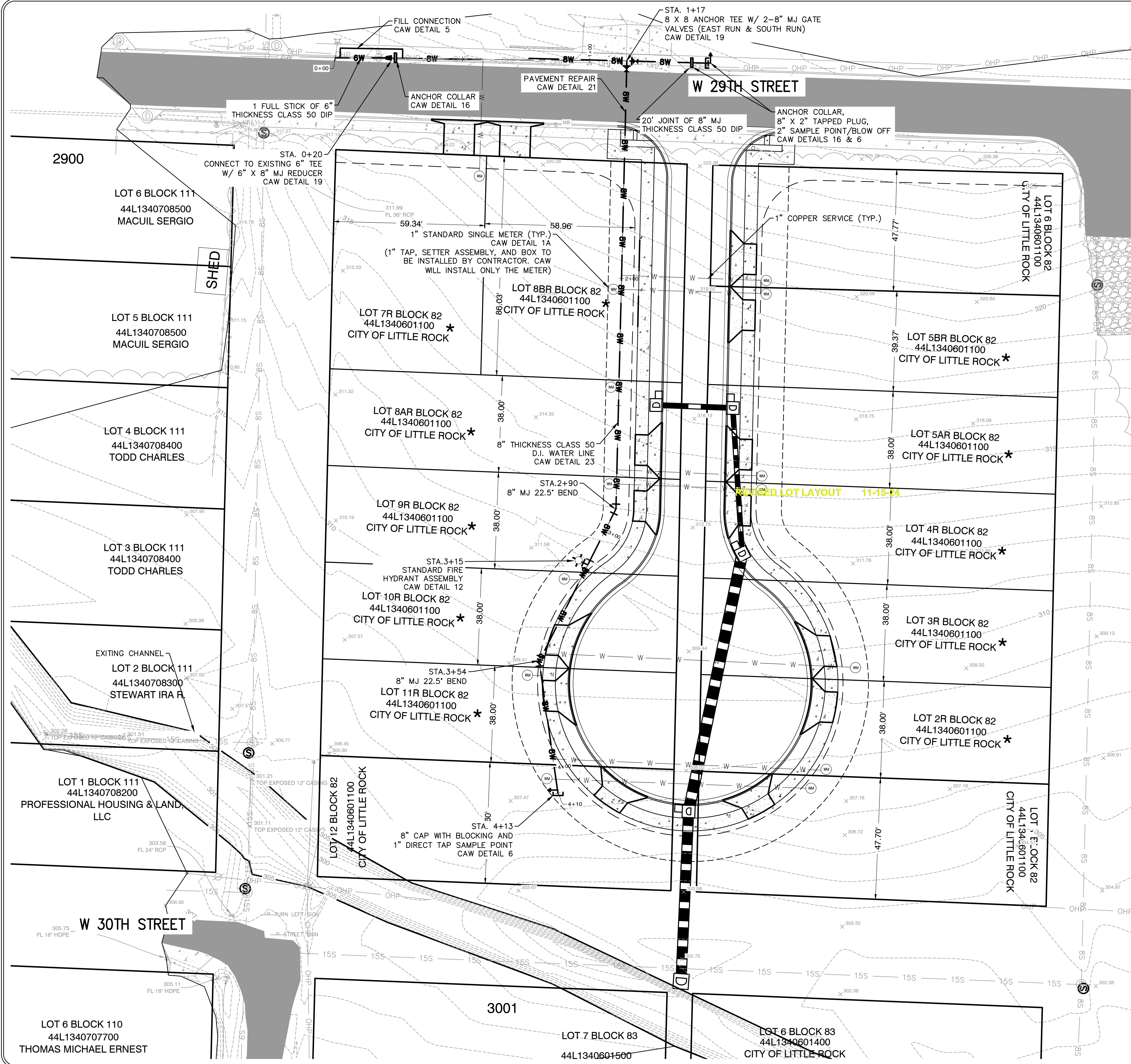
CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS

DRAINAGE PROFILE

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



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DESIGNED VJW & TM
CHECKED VJW
DATE 06-06-2024
SCALE 1"=20' (22X34)
PROJECT NO. 23037
SHEET NO. C5



NOTES:

1. ALL WATER UTILITY CONSTRUCTION SHALL COMPLY WITH CENTRAL ARKANSAS WATER'S LATEST STANDARD SPECIFICATIONS. CAW STANDARD SPECIFICATIONS AND DETAILS ARE AVAILABLE FOR DOWNLOAD AT WWW.CARKW.COM
2. WATER LINES SHALL HAVE A MINIMAL HORIZONTAL SEPARATION OF TEN (10') FEET FROM ALL SEWER LINES EXCEPT FOR CROSSINGS. THE WATER LINE SHALL PASS ABOVE THE SEWER LINE WITH A MINIMUM OF 18" OF VERTICAL SEPARATION AND MAINTAIN A MINIMUM GROUND COVER OF 30" ABOVE THE WATER LINE. WHERE 18" OF VERTICAL SEPARATION AND 30" OF GROUND COVER CANNOT BE MAINTAINED OR WHERE THE WATER LINE PASSES UNDER THE SEWER LINE, THEN EITHER THE WATER LINE OR SEWER LINE SHALL BE ENCASED AS PER ADH AND CAW REQUIREMENTS. A MINIMUM OF 6" CLEARANCE SHALL BE MAINTAINED BETWEEN ENCASEMENT PIPE AND UNENCASED LINES IF WATER LINE IS ABOVE THE SEWER, OR 18" CLEARANCE IF WATER IS BELOW THE SEWER.
3. SEWER SERVICE WILL BE CONSTRUCTED BY OTHERS AND COME FROM EXISTING SEWER MAINS IN ZION & COBB ROAD R-0-W.

OWNER'S INFORMATION:

KEVIN HOWARD
DIRECTOR OF HOUSING AND NEIGHBORHOOD PROGRAMS
DEPARTMENT OF HOUSING AND NEIGHBORHOOD PROGRAMS
500 WEST MARKHAM STREET, SUITE 120W, LITTLE ROCK, AR 72201
501-918-5268
KHOWARD@LITTLE.ROCK.GOV

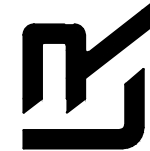
* AT THE TIME OF CONSTRUCTION THESE LOTS HAVE NOT BEEN REPLATTED. PER OWNER, LOTS WILL BE REPLATTED IN FUTURE. FUTURE REPLAT SHOWN TO COORDINATE INFRASTRUCTURE DESIGNED AS PART OF THIS PROJECT.

REVISIONS	DATE
REVISED PER ADH	7/17/24
REVISED CUL-DE-SAC	8-21-24
REVISED LOT LAYOUT	11-15-24

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS

UTILITY PLAN

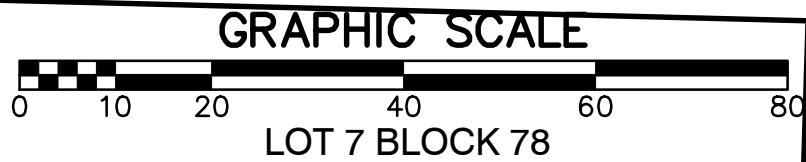
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

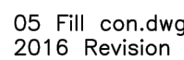


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DESIGNED
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CHECKED
VJW
DATE
06-06-2024
SCALE
1"=20' (22X34)
PROJECT NO.
23037

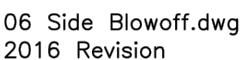
SHEET NO.

C6

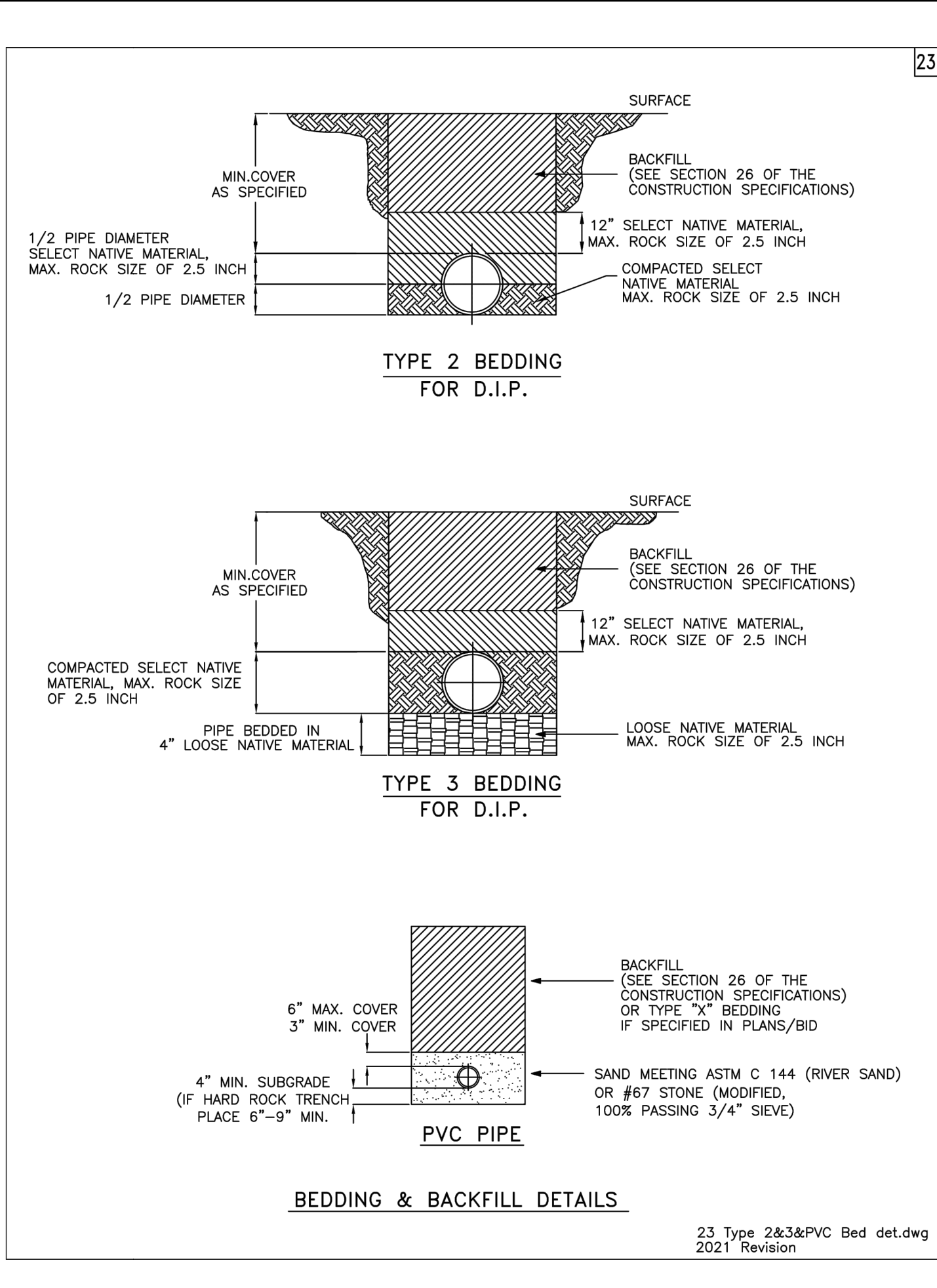
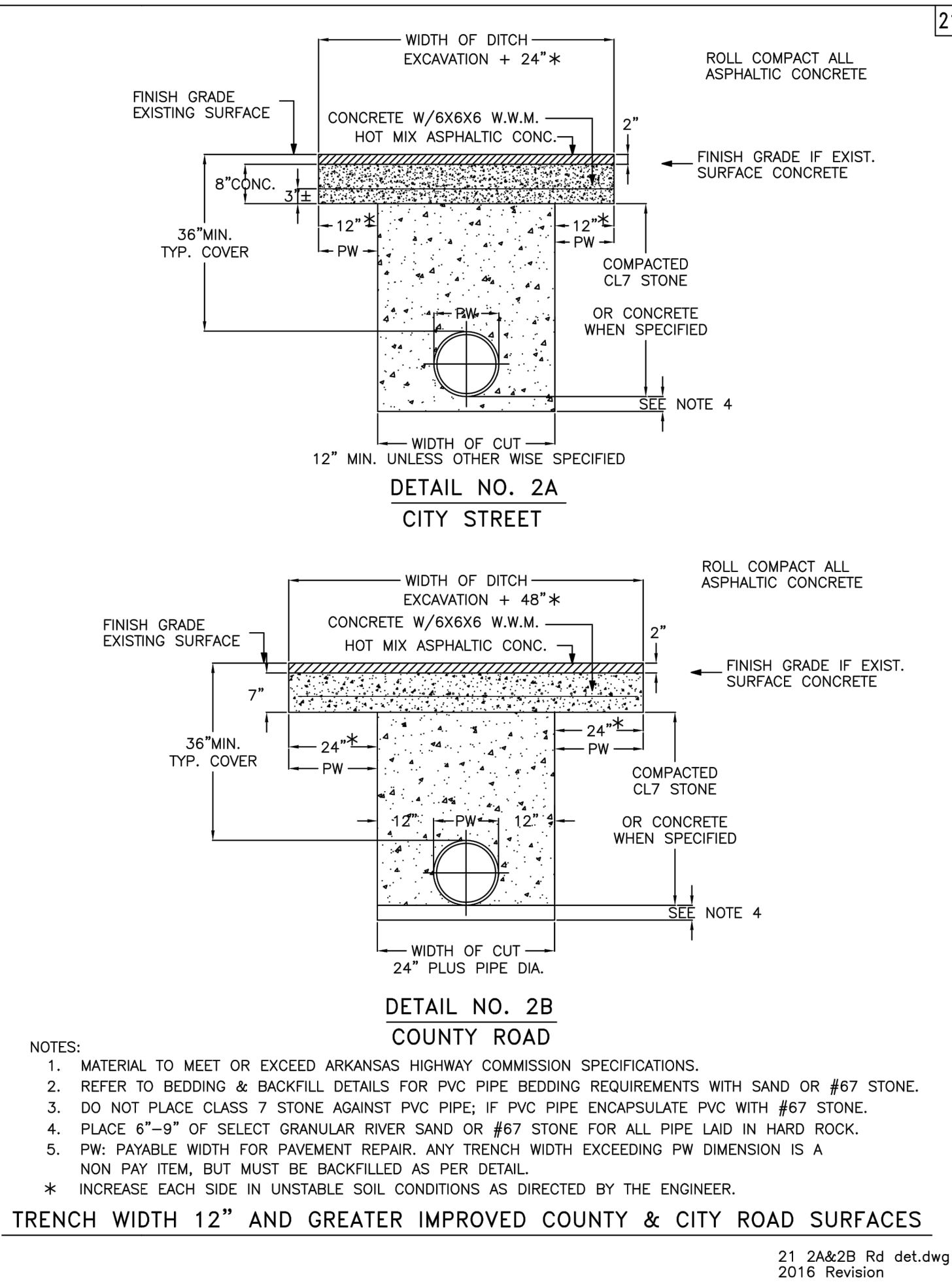




16 Anc Col det.dwg
2016 Revision



SHEET NO.
C6.1



REVISIONS	DATE
ADDED PER ADH	7/17/24

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS

CAW DETAILS II

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



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CHECKED VJW
DATE 07-17-2024
SCALE 1"=20' (22X34)
PROJECT NO. 23037
SHEET NO. C6.2

REVISIONS	DATE
REVISED CUL-DE-SAC	8-21-24
REVISED LOT LAYOUT	11-15-24

CITY OF LITTLE ROCK, ARKANSAS

ZION SQUARE IMPROVEMENTS

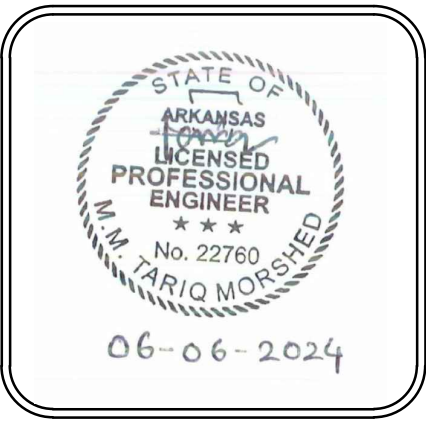
CROSS SECTIONS

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



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TM

DESIGNED
VJW & TM

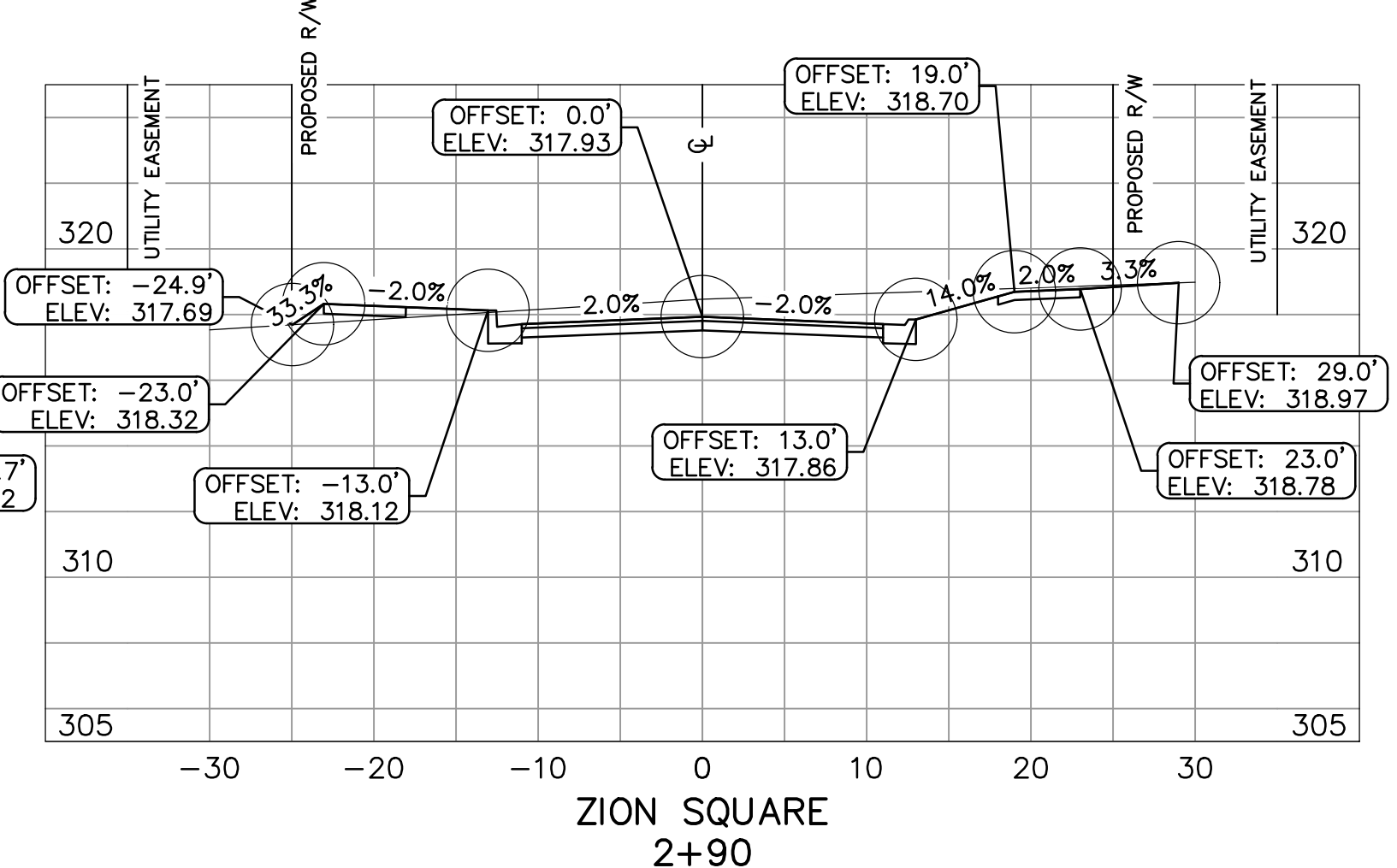
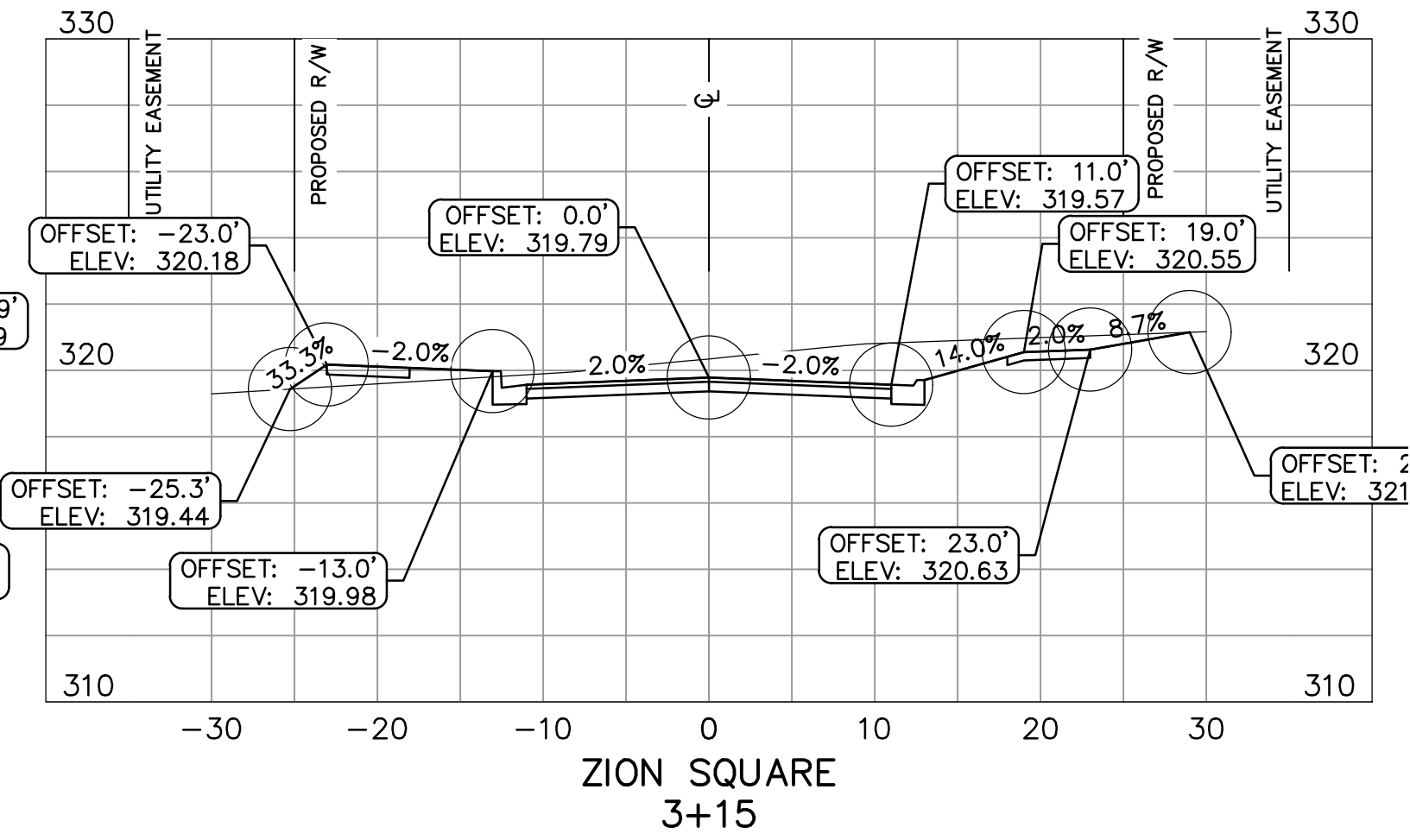
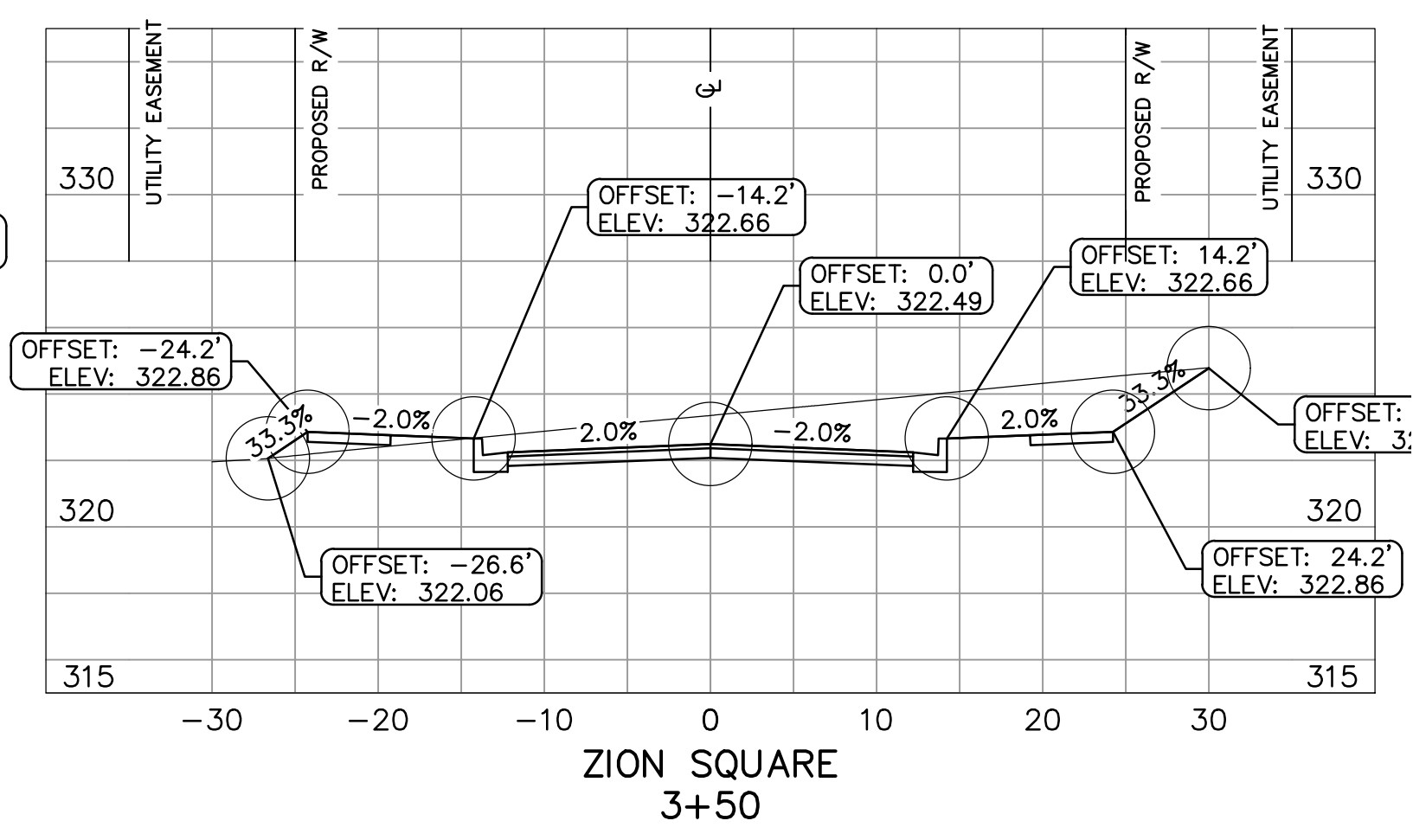
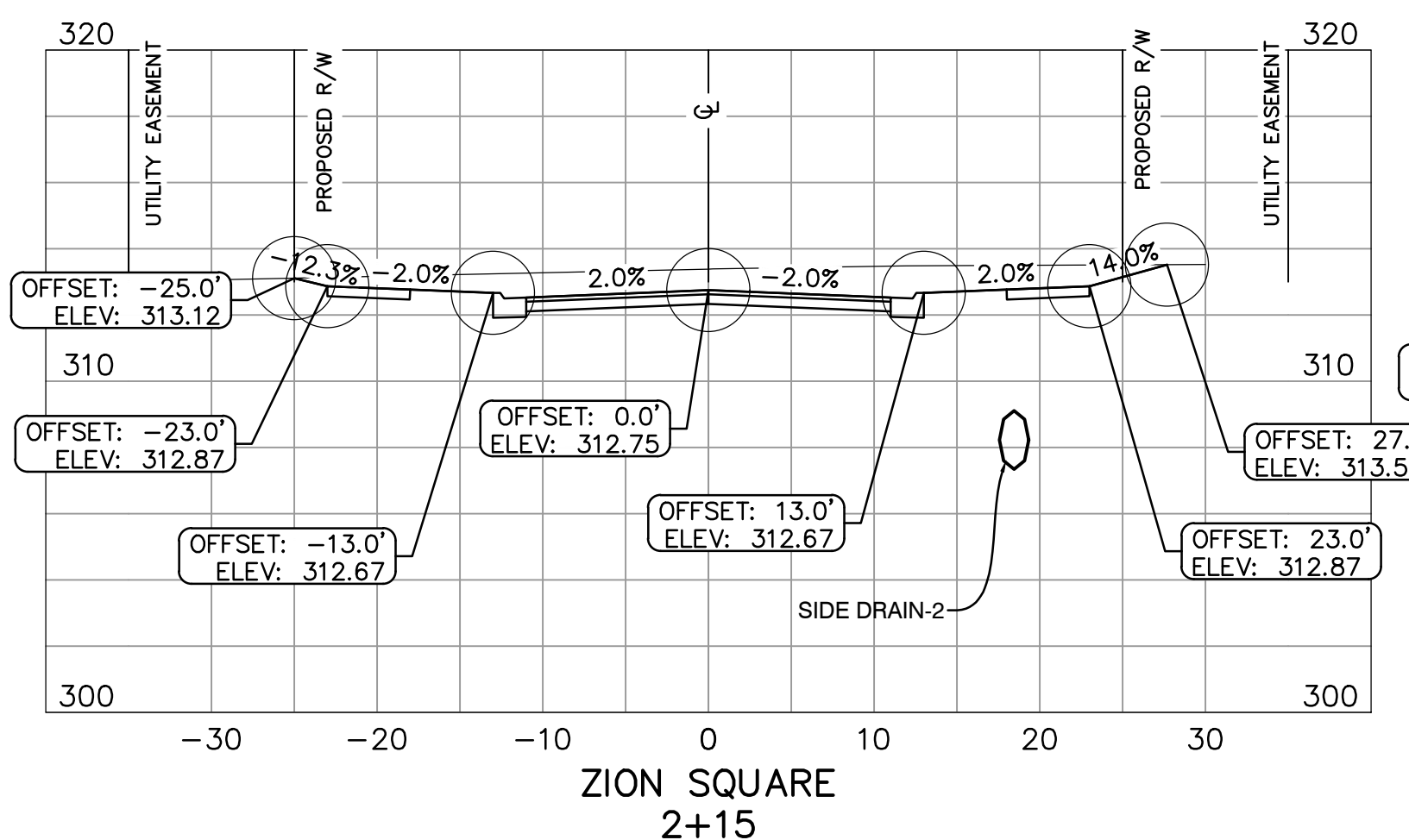
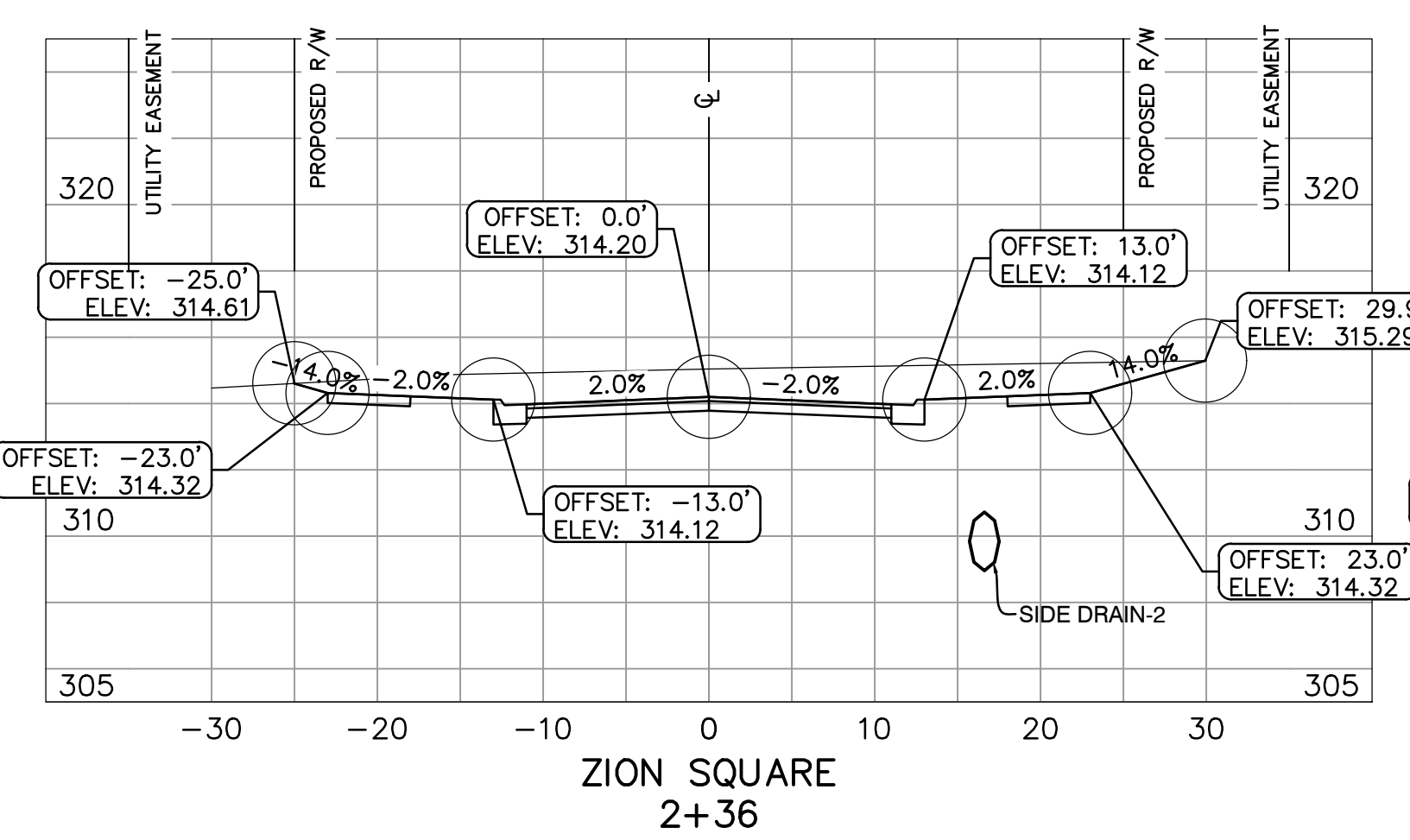
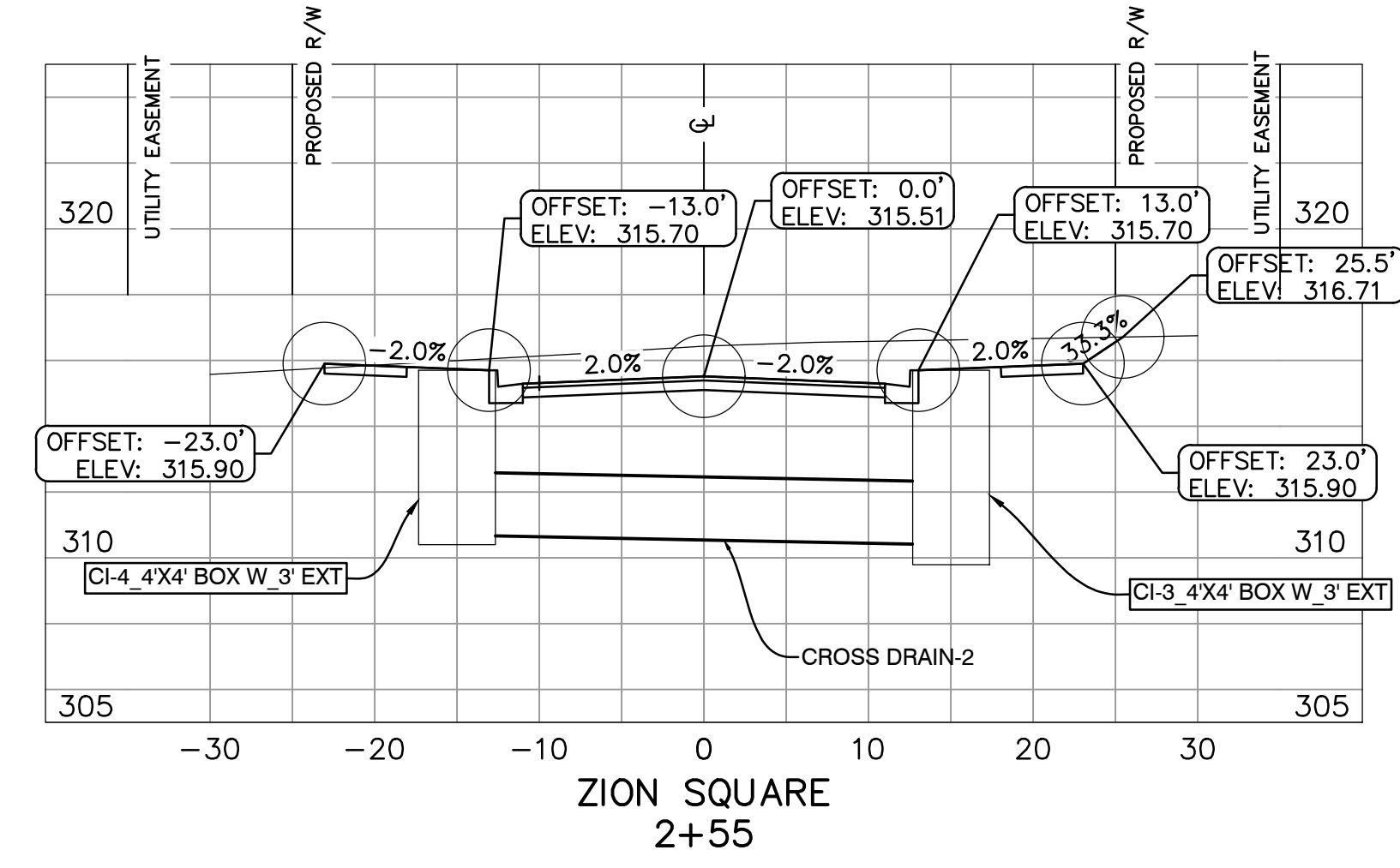
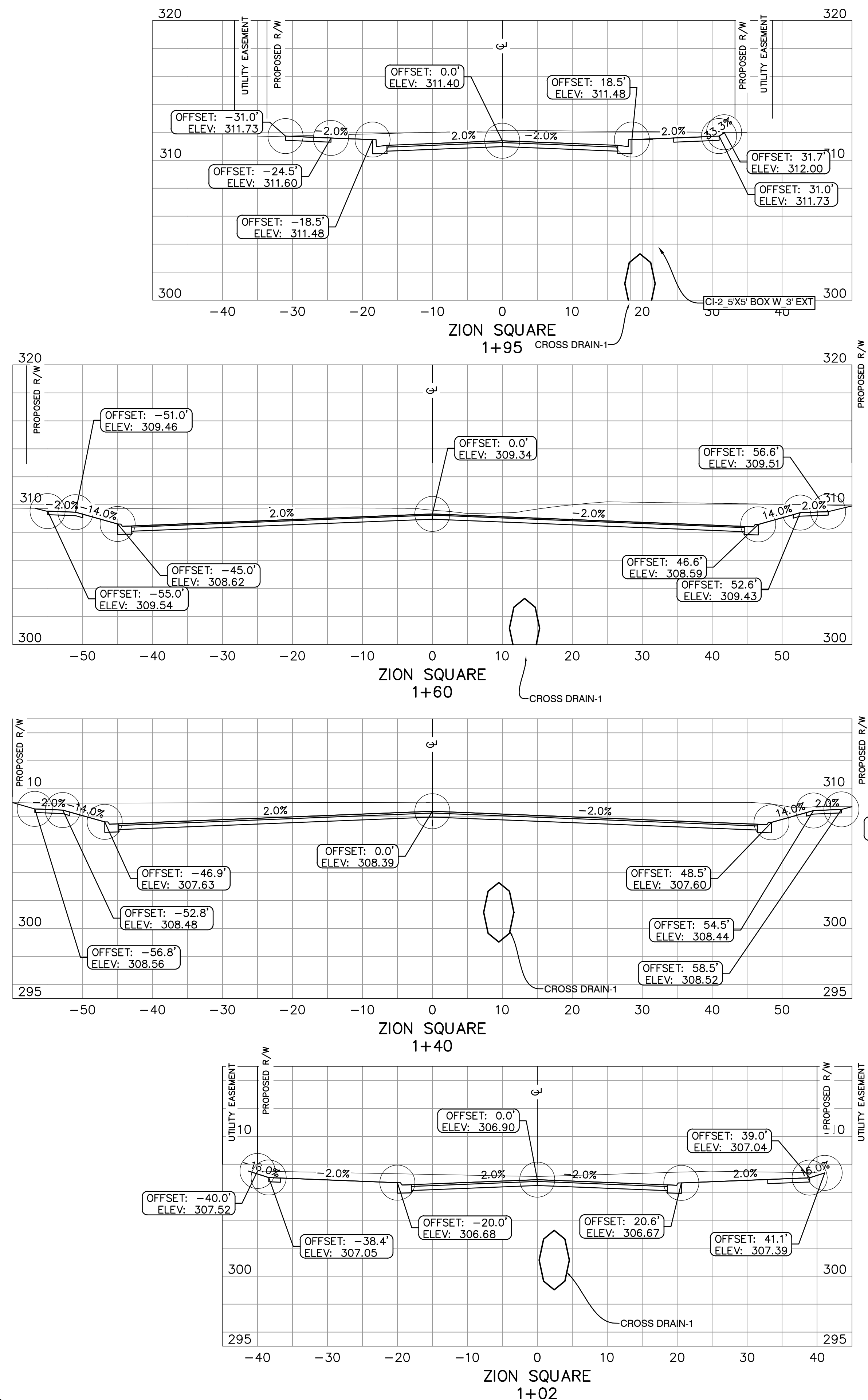
CHECKED
VJW

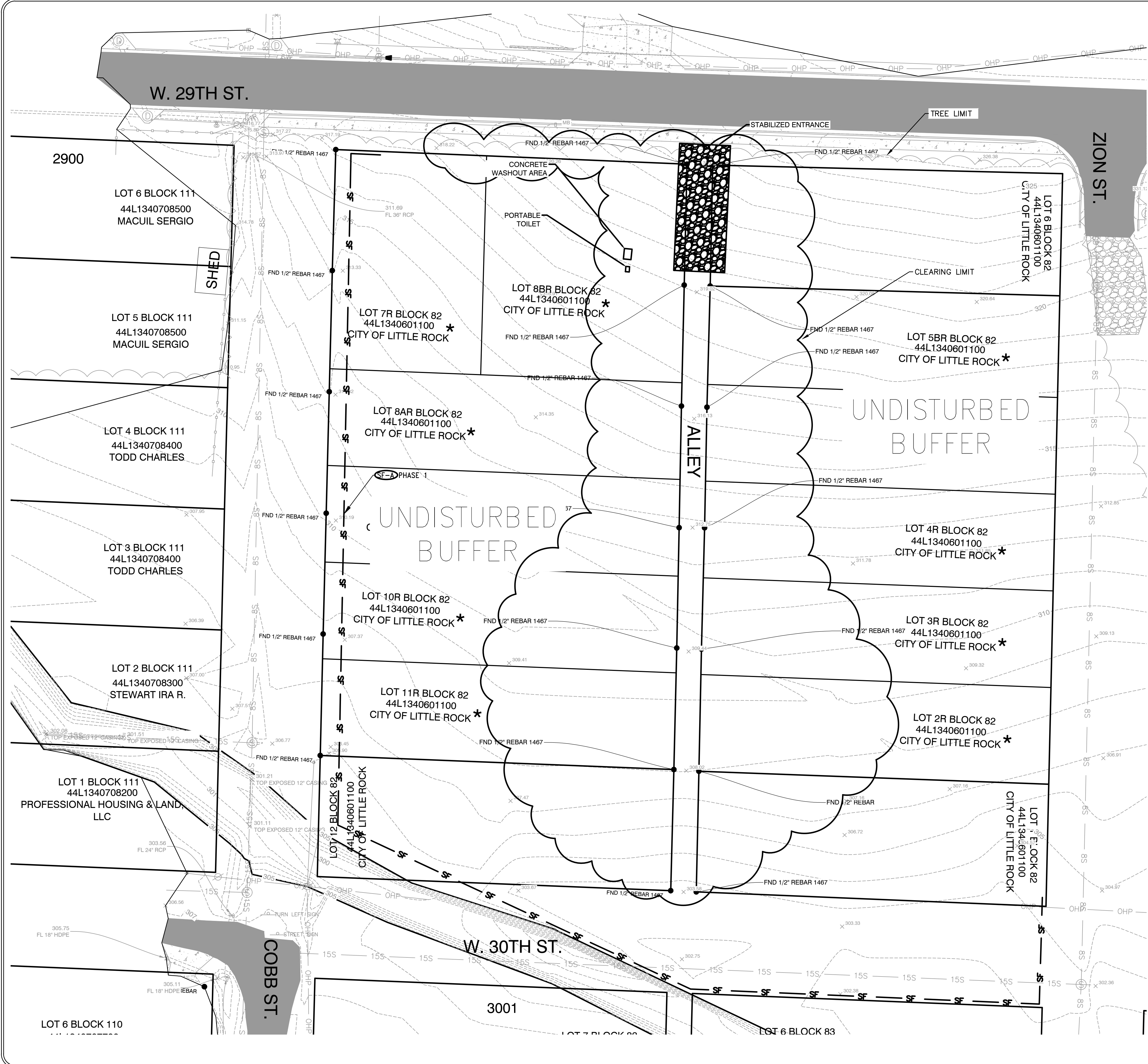
DATE
06-06-2024

SCALE
1"=20' (22X34)

PROJECT NO.
23037

SHEET NO.
C7





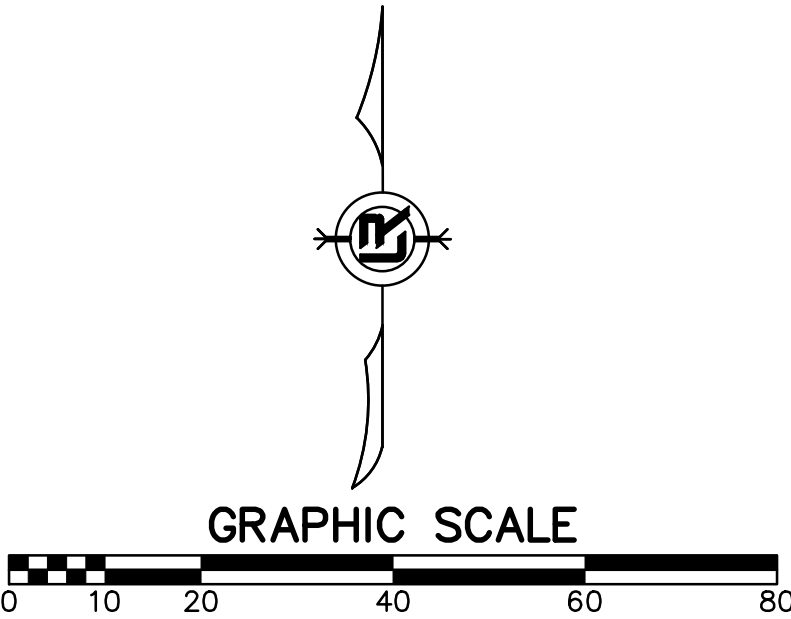
★ AT THE TIME OF CONSTRUCTION THESE LOTS HAVE NOT BEEN REPLATED. PER OWNER, LOTS WILL BE REPLATED IN FUTURE. FUTURE REPLAT SHOWN TO COORDINATE INFRASTRUCTURE DESIGNED AS PART OF THIS PROJECT.

BMP NOTES:

1. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
2. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
3. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIAL SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
5. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
6. IF THE ACTION OF VEHICLES TRAVELING OVER THE SITE IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF OF THE SITE.
7. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
8. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
9. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
10. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

TOTAL SITE: 1.88 ACRES (INCLUDES R-O-W)

TOTAL DISTURBED AREA: 0.75 ACRES (INCLUDES R-O-W)



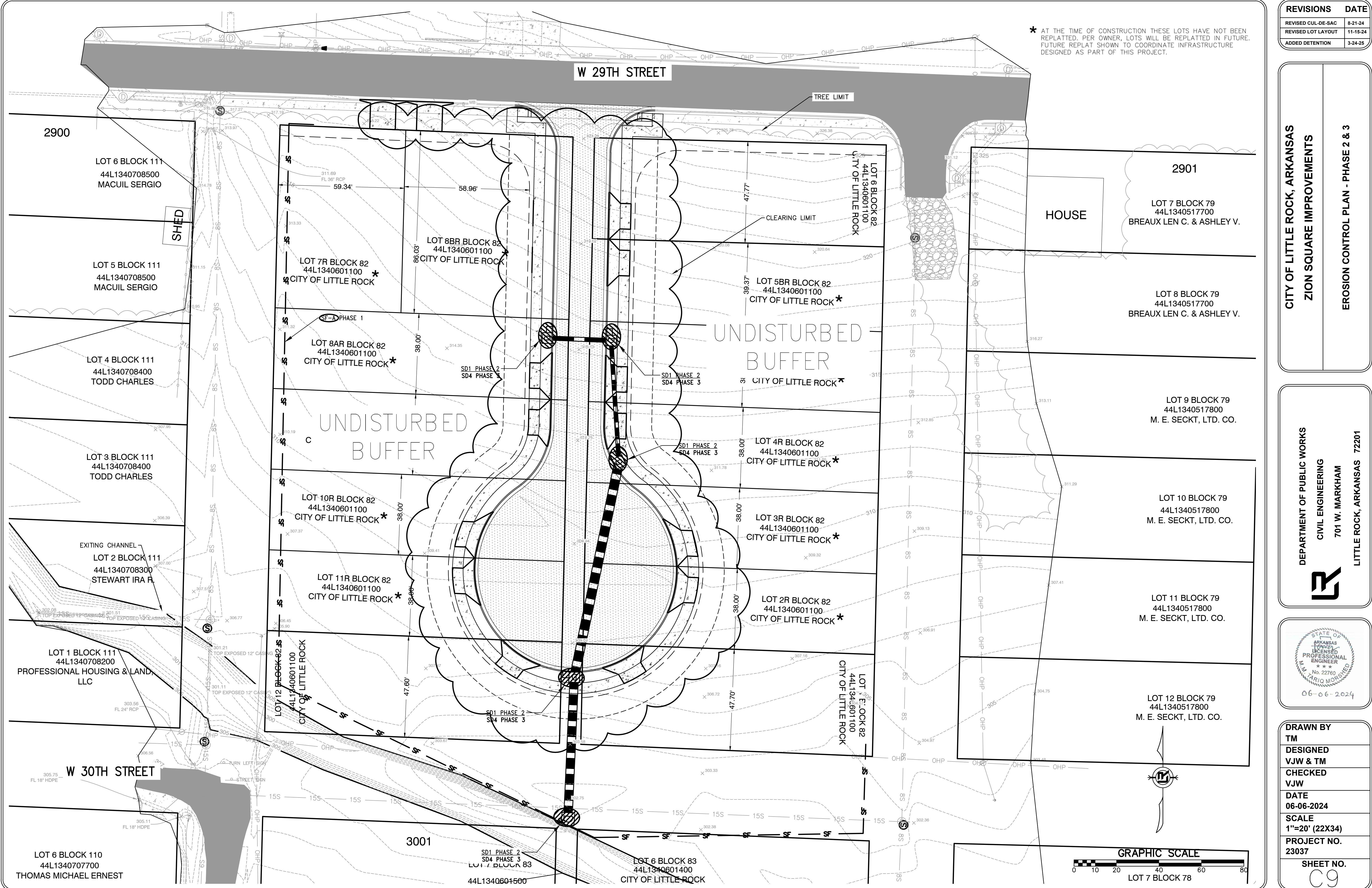
REVISIONS	DATE
REVISED CUL-DE-SAC	8-21-24
REVISED LOT LAYOUT	11-15-24

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS
EROSION CONTROL PLAN - PHASE 1

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



DRAWN BY TM
DESIGNED VJW & TM
CHECKED VJW
DATE 06-06-2024
SCALE 1"=20' (22X34)
PROJECT NO. 23037
SHEET NO. C8



* AT THE TIME OF CONSTRUCTION THESE LOTS HAVE NOT BEEN REPLATTED. PER OWNER, LOTS WILL BE REPLATTED IN FUTURE. FUTURE REPLAT SHOWN TO COORDINATE INFRASTRUCTURE DESIGNED AS PART OF THIS PROJECT.

REVISIONS	DATE
REVISED CUL-DE-SAC	8-21-24
REVISED LOT LAYOUT	11-15-24
ADDED DETENTION	3-24-25

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS
EROSION CONTROL PLAN - PHASE 2 & 3

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



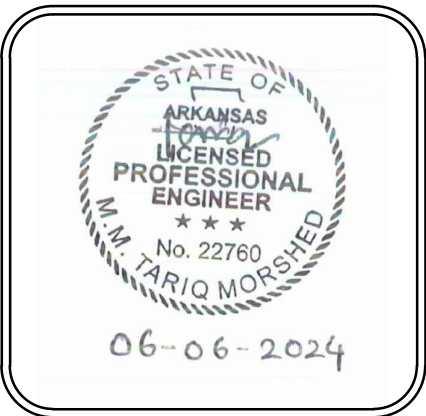
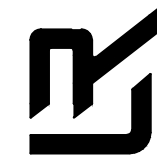
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CHECKED VJW
DATE 06-06-2024
SCALE 1"=20' (22X34)
PROJECT NO. 23037
SHEET NO. C9

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
ZION SQUARE IMPROVEMENTS

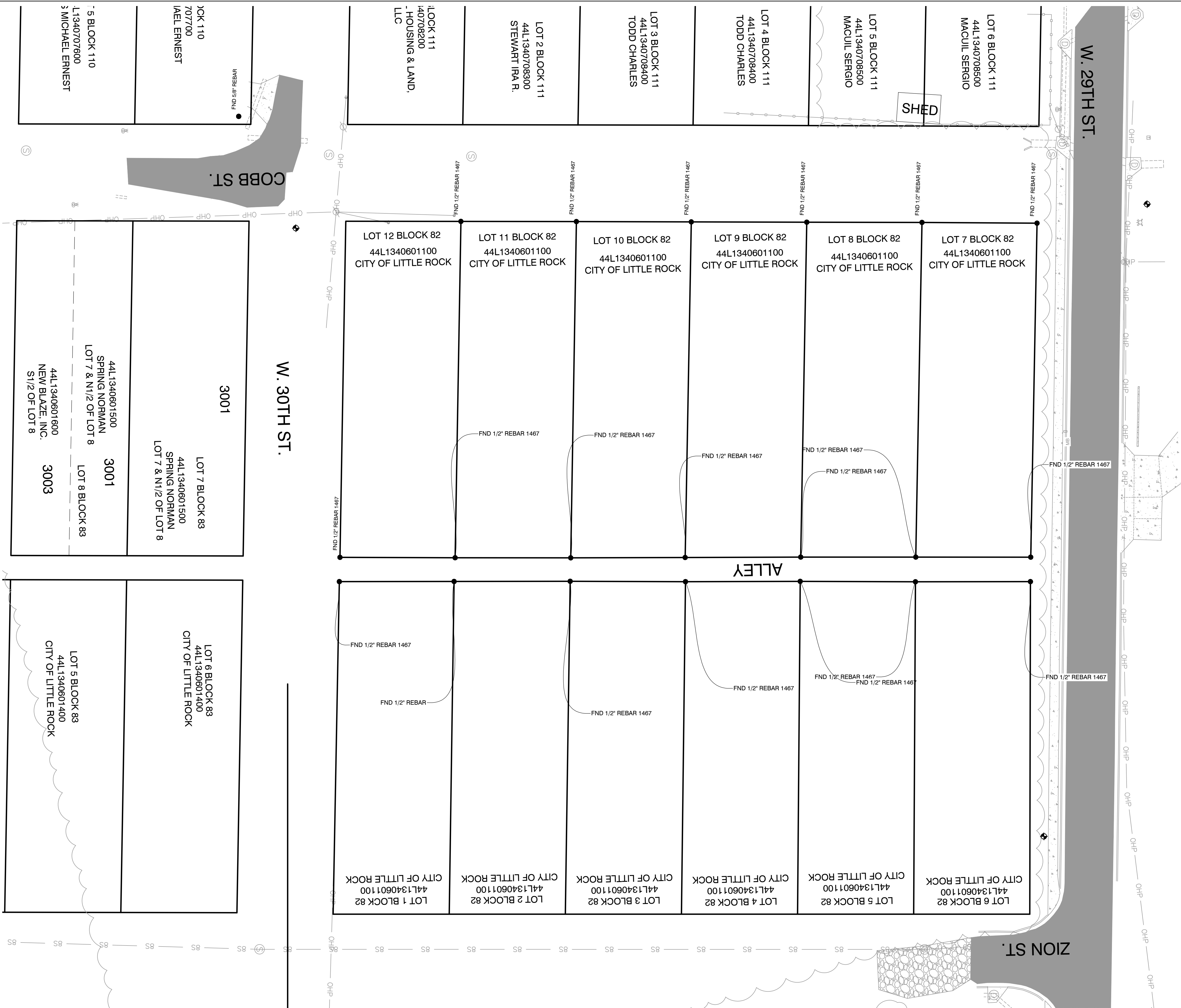
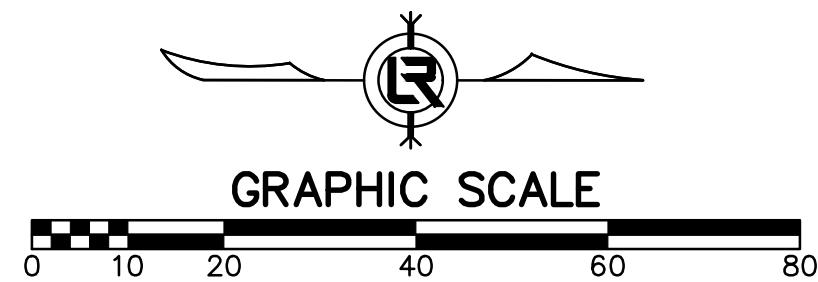
SURVEY CONTROL PLAN

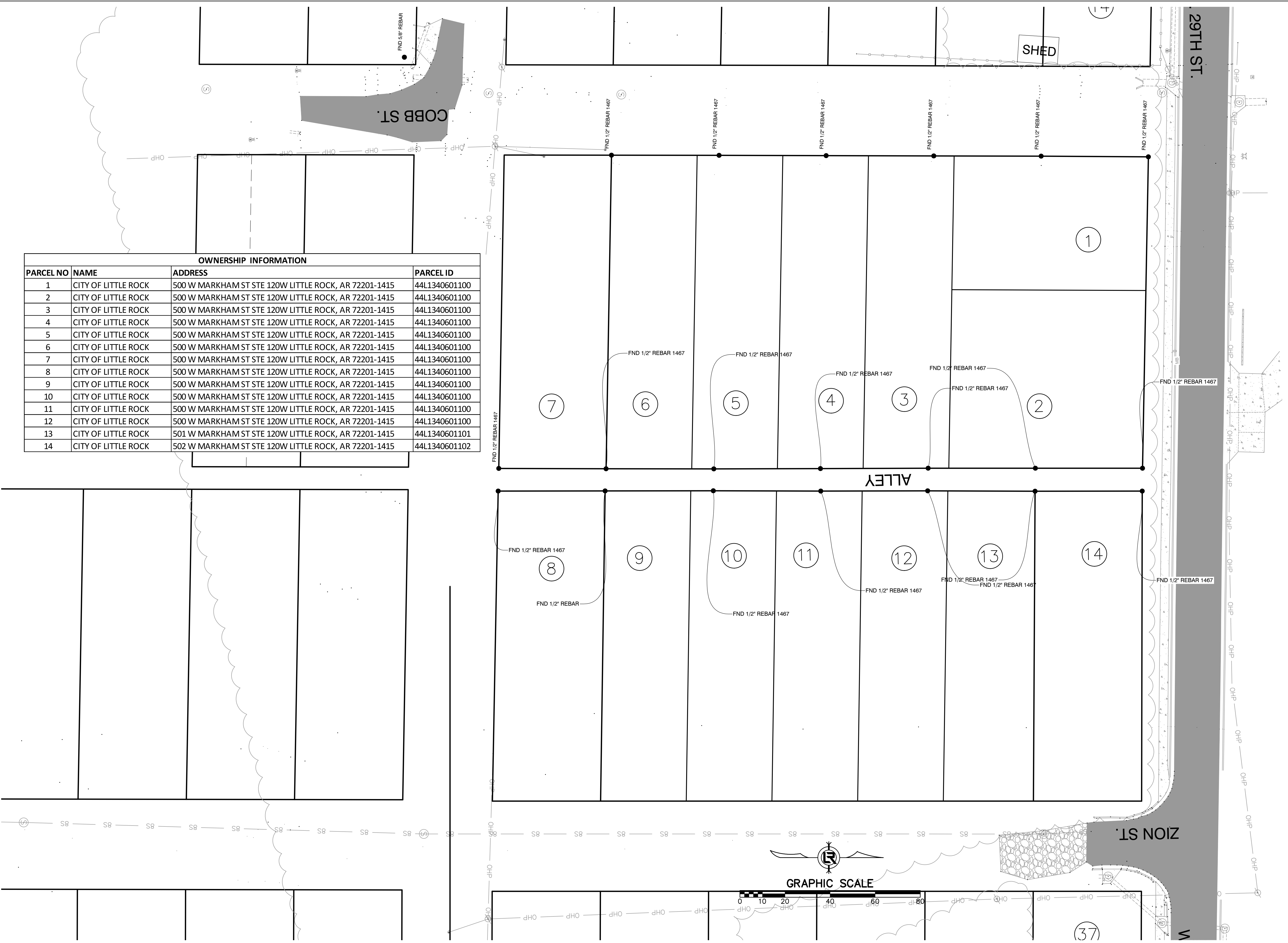
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CIVIL ENGINEERING
701 W. MARKHAM
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TM
DESIGNED
VJW & TM
CHECKED
VJW
DATE
06-06-2024
SCALE
1"=20' (22X34)
PROJECT NO.
23037

SHEET NO.
C10





OWNERSHIP INFORMATION			
PARCEL NO	NAME	ADDRESS	PARCEL ID
1	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
2	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
3	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
4	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
5	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
6	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
7	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
8	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
9	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
10	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
11	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
12	CITY OF LITTLE ROCK	500 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601100
13	CITY OF LITTLE ROCK	501 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601101
14	CITY OF LITTLE ROCK	502 W MARKHAM ST STE 120W LITTLE ROCK, AR 72201-1415	44L1340601102

REVISIONS	DATE
REVISED LOT LAYOUT	11-15-24

CITY OF LITTLE ROCK, ARKANSAS

ZION SQUARE IMPROVEMENTS

PROPERTY OWNERSHIP MAP

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



STATE OF ARKANSAS

PROFESSIONAL ENGINEER

No. 22760

M. M. TARIQ MORSHIED

06-06-2024

DRAWN BY TM

DESIGNED VJW & TM

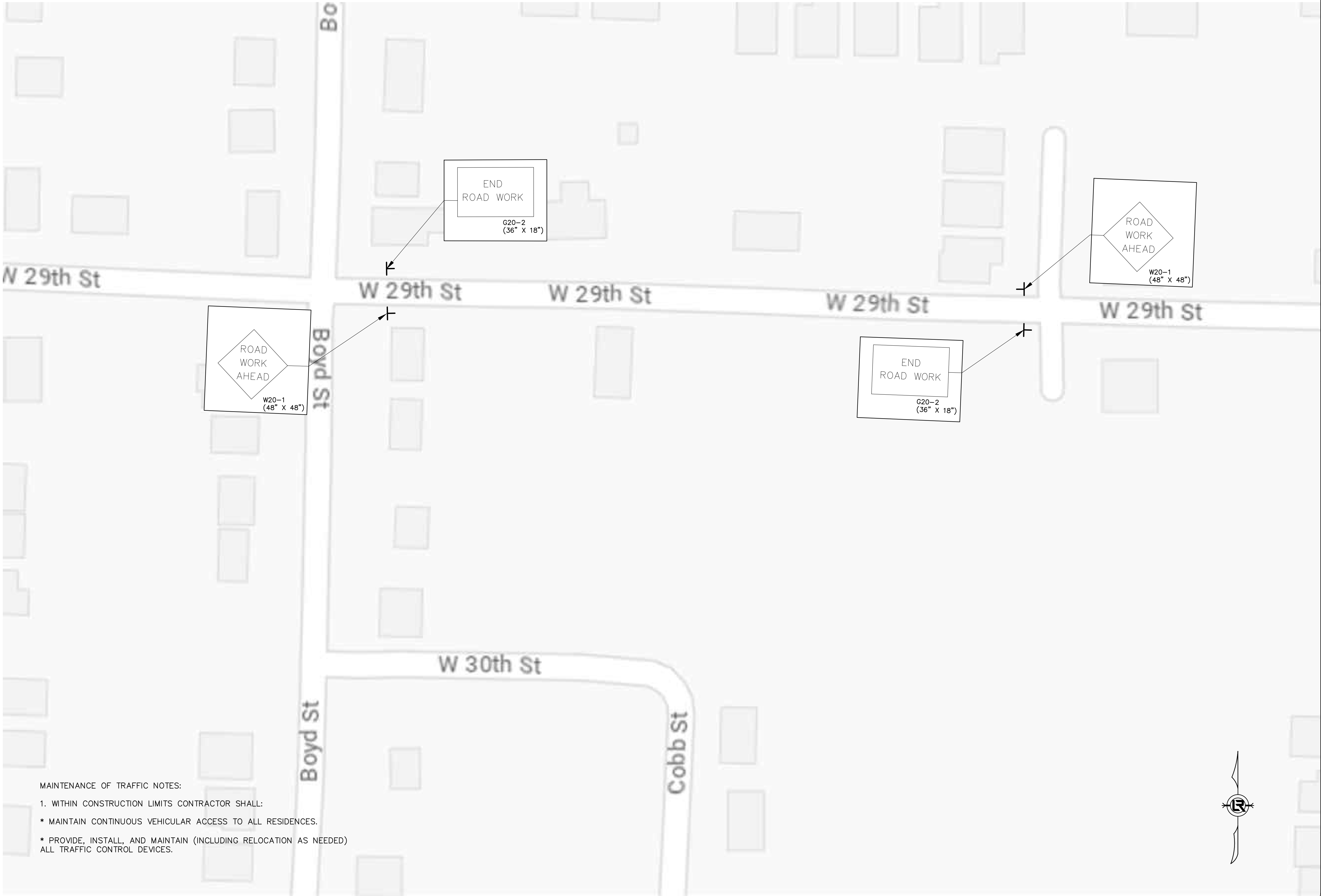
CHECKED VJW

DATE 06-06-2024

SCALE 1"=20' (22X34)

PROJECT NO. 23037

SHEET NO. C11



MAINTENANCE OF TRAFFIC NOTES:

1. WITHIN CONSTRUCTION LIMITS CONTRACTOR SHALL:

* MAINTAIN CONTINUOUS VEHICULAR ACCESS TO ALL RESIDENCES.

* PROVIDE, INSTALL, AND MAINTAIN (INCLUDING RELOCATION AS NEEDED)
ALL TRAFFIC CONTROL DEVICES.



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS	MAINTENANCE OF TRAFFIC PLAN
ZION SQUARE IMPROVEMENTS	

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



DRAWN BY TM
DESIGNED VJW & TM
CHECKED VJW
DATE 06-06-2024
SCALE 1"=50' (22X34)
PROJECT NO. 23037
SHEET NO. C12