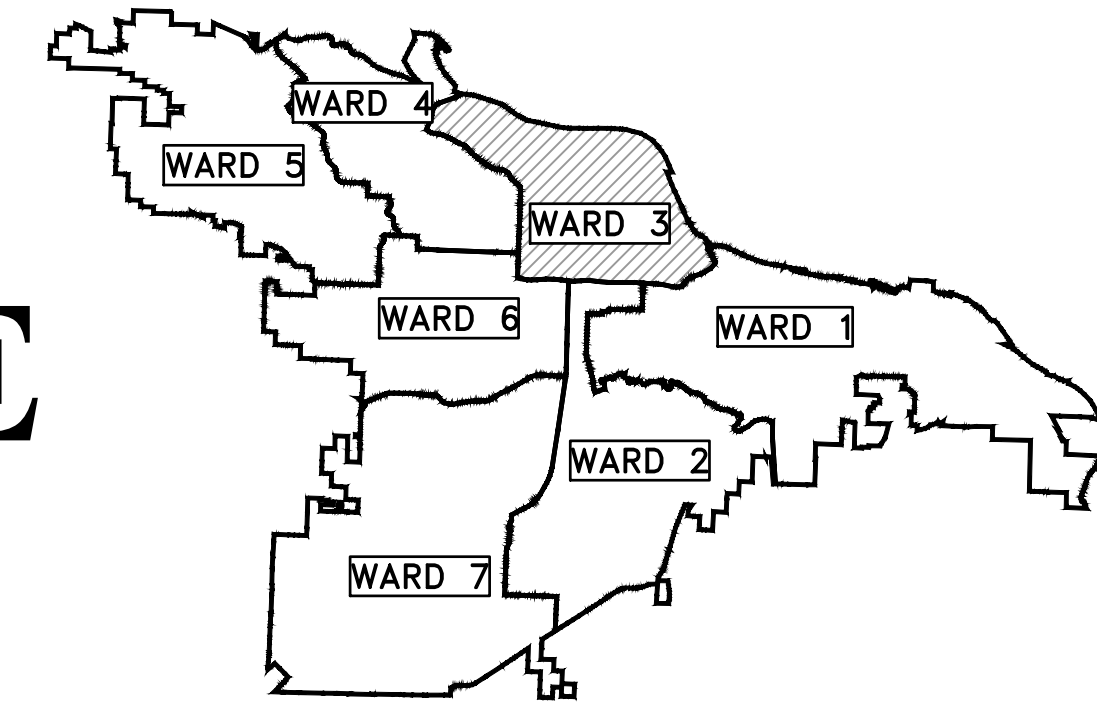


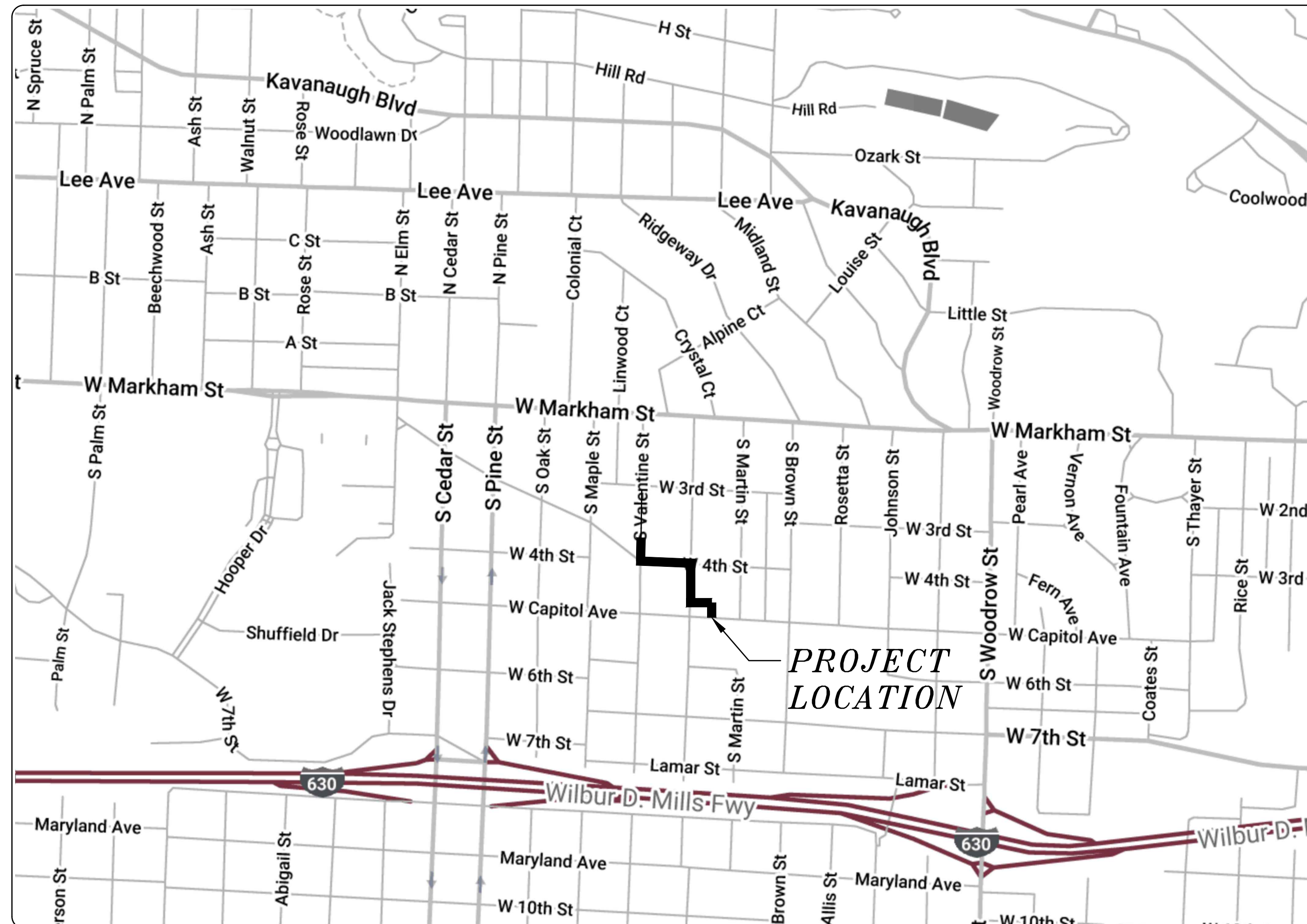
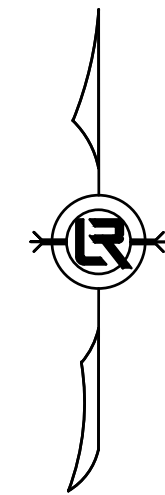
CLR PROJECT 03-17-DR-107

WEST 4TH STREET DRAINAGE AND STREET IMPROVMENTS

SOUTH VALENTINE STREET TO WEST CAPITOL AVENUE



PROJECT LOCATION – WARD 3



SHEET NO.	TITLE
C1	COVER SHEET
C2	QUANTITIES & DETAILS
C3-C4	TYPICAL SECTIONS
C5-C16	SPECIAL DETAILS
C17	FIELD TIES/LAYOUT
C18	BOX CULVERT 1
C19	BOX CULVERT 2
C20	BOX CULVERT 3
C21	WEST 4TH STREET 1
C22	WEST 4TH STREET 2
C23	SOUTH VALENTINE STREET
C24	VALMAR STREET
C25	EROSION CONTROL
C26-C27	MAINTENANCE OF TRAFFIC
C28-C29	DRIVEWAY DETAILS
C30-C34	CROSS SECTIONS

60% SUBMITTAL



Know what's below.
Call before you dig.



**2019-2021
BOND PROGRAM**

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



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

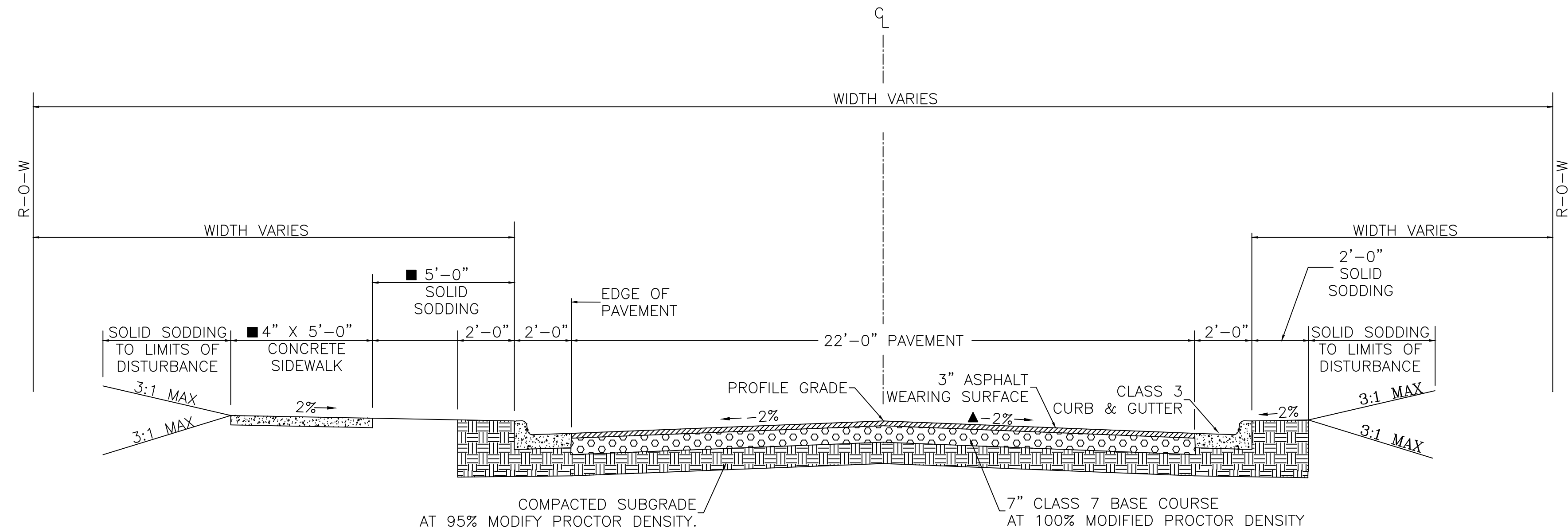
REVISIONS	DATE

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

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



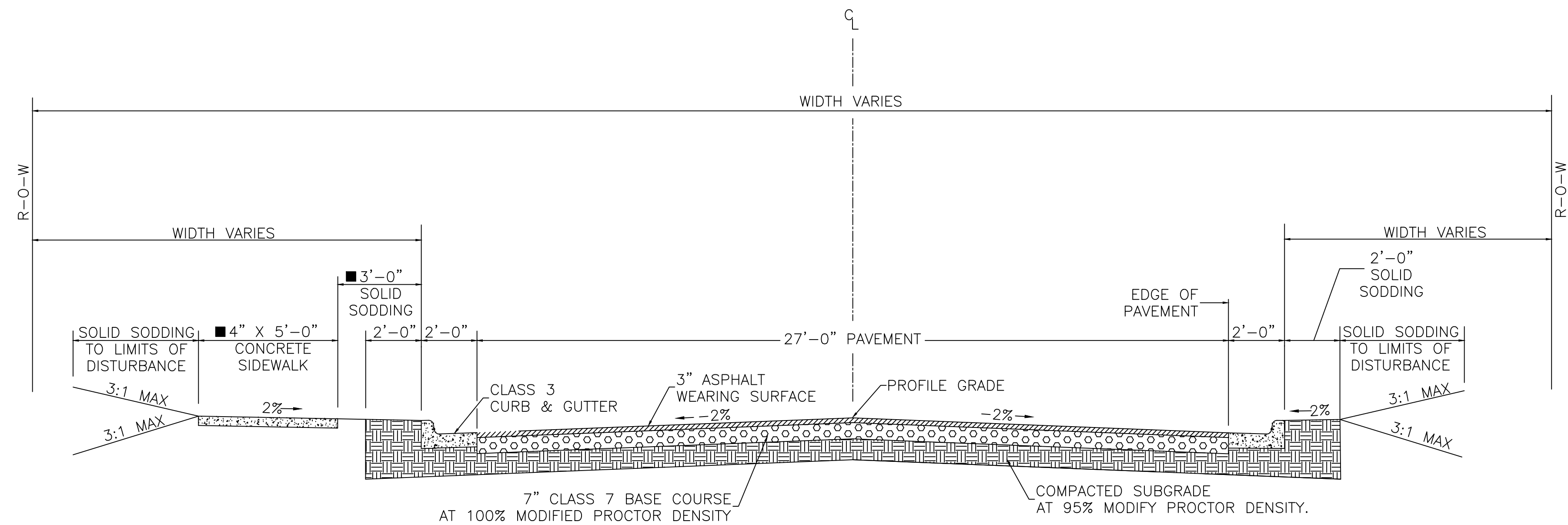
DRAWN BY MJM
DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE N.T.S.
PROJECT NO. 03-17-DR-107
SHEET NO. C1



TYPICAL SECTION
WEST 4TH STREET
STA. 10+49.00 TO 14+66.07
STA. 14+93.08 TO STA. 15+55.44

▲ TRANSITION CROSS SLOPE FROM -2%
TO +2% BETWEEN STA. 10+85 AND
STA. 11+25
TRANSITION CROSS SLOPE FROM +2%
TO -2% BETWEEN STA. 11+75 AND
STA. 12+15

■ SEE PLAN AND PROFILE SHEETS FOR
VARIATIONS



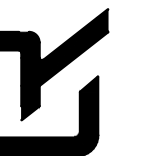
TYPICAL SECTION
VALENTINE STREET
STA. 51+20.00 TO STA. 51+83.36
STA. 52+05.96 TO STA. 52+50.00

REVISIONS	DATE

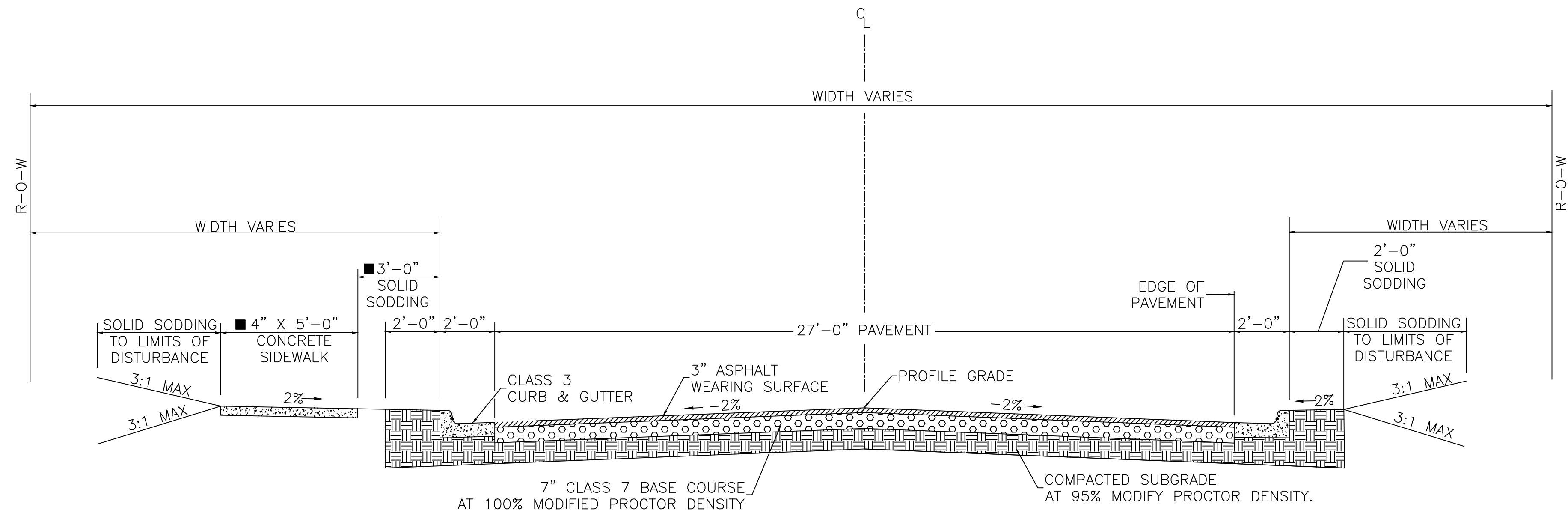
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

TYPICAL SECTIONS

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

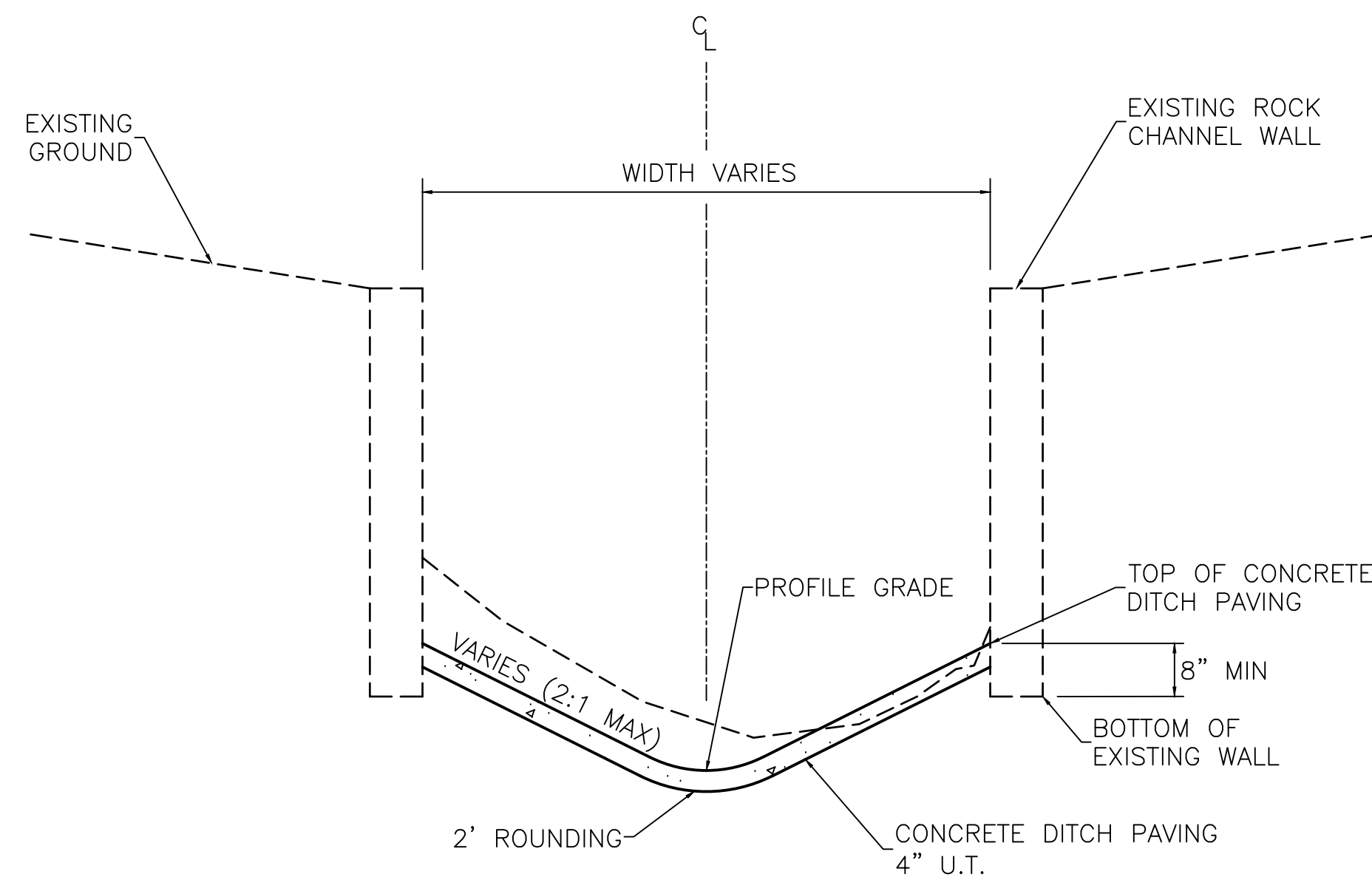


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DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C3



TYPICAL SECTION
VALMAR STREET
STA. 100+50.00 TO STA. 103+50.00

■ SEE PLAN AND PROFILE SHEETS FOR VARIATIONS



TYPICAL SECTION
CONCRETE DITCH PAVING
STA. 207+39.95 TO STA. 209+20.05

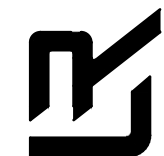
NOTE:
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

REVISIONS	DATE

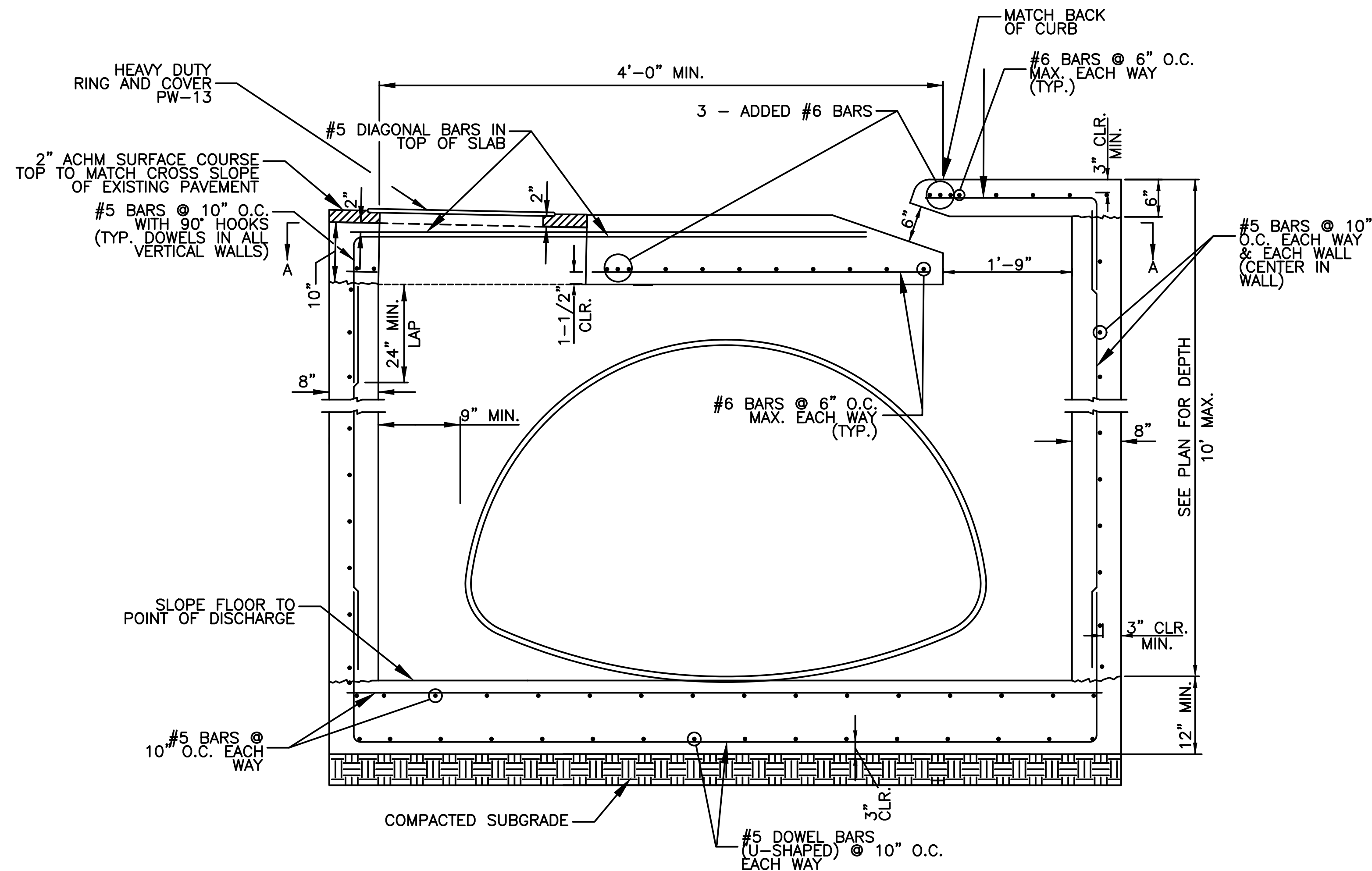
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

TYPICAL SECTIONS

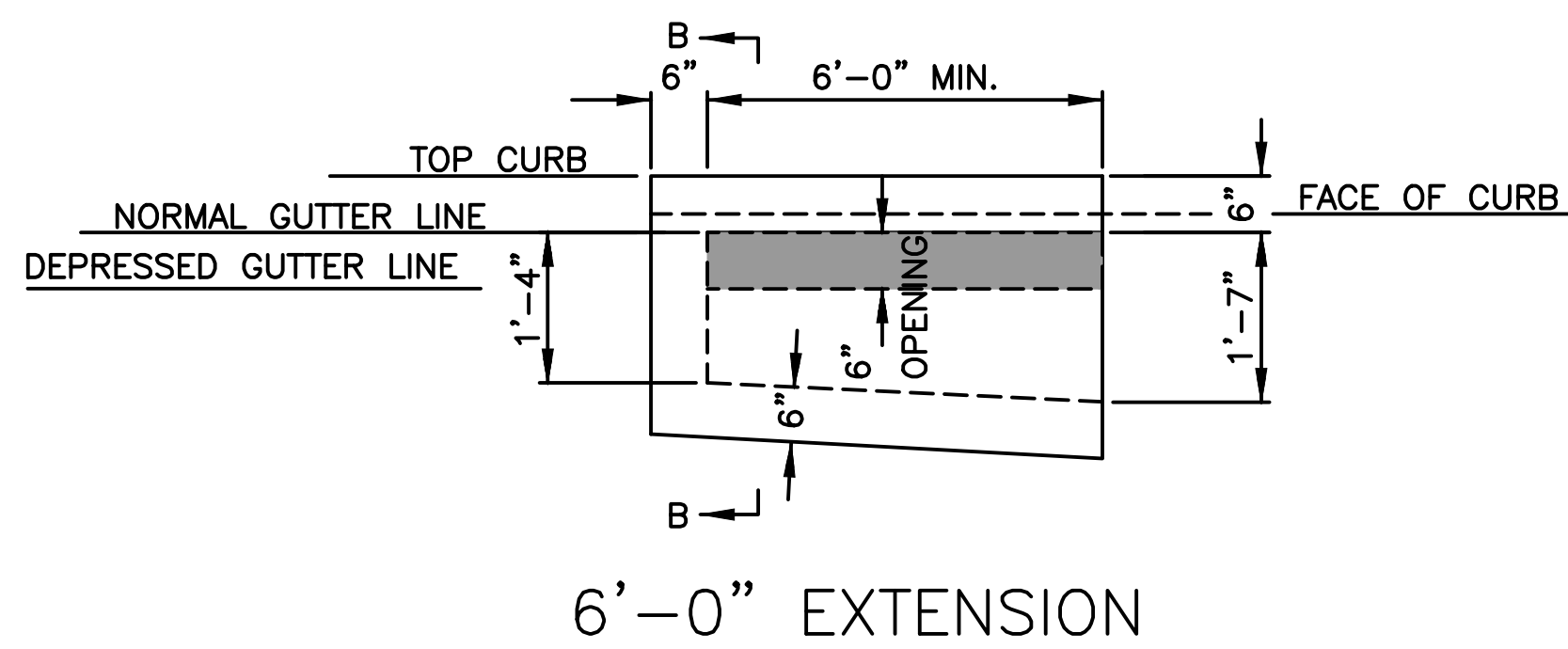
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



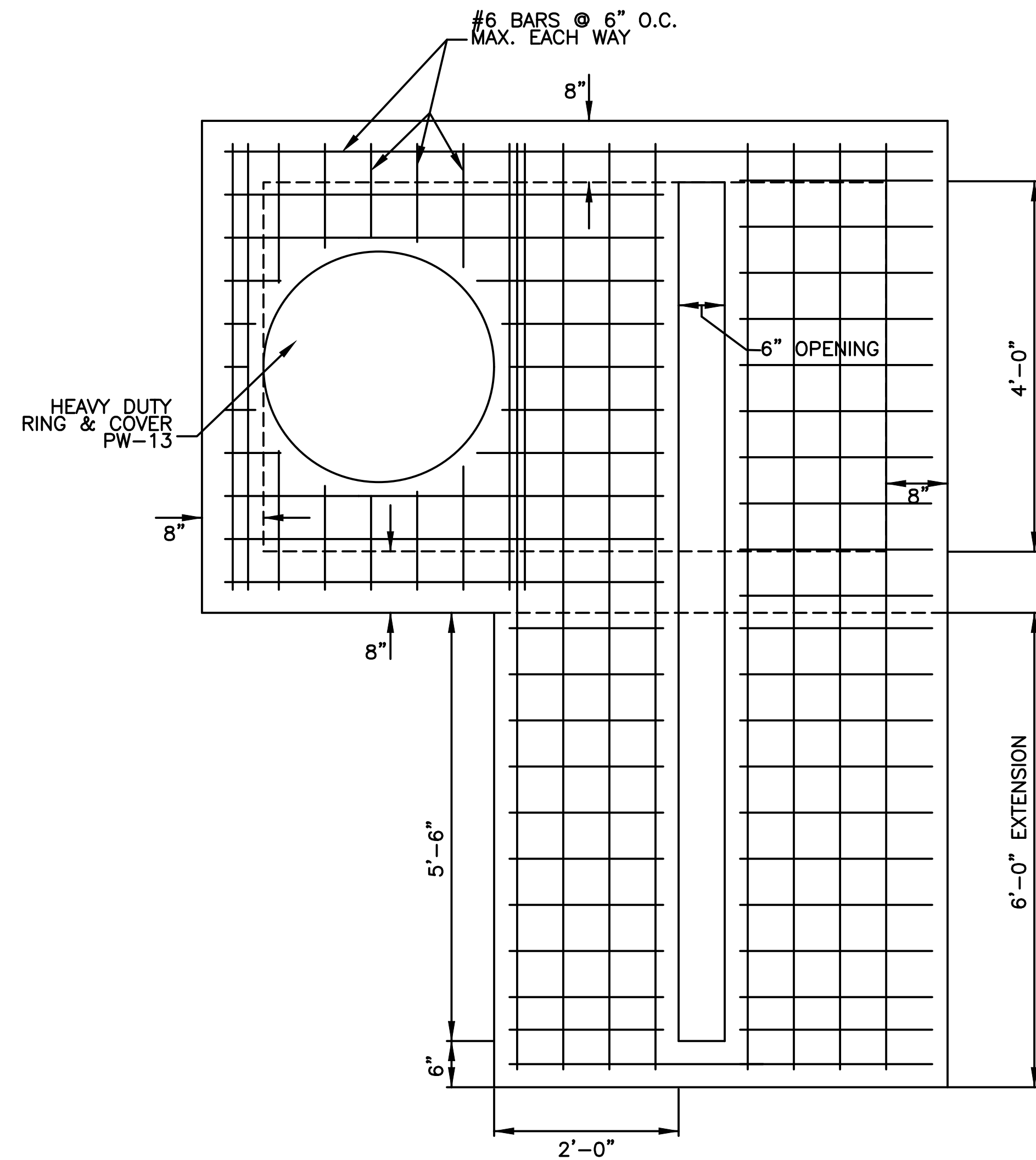
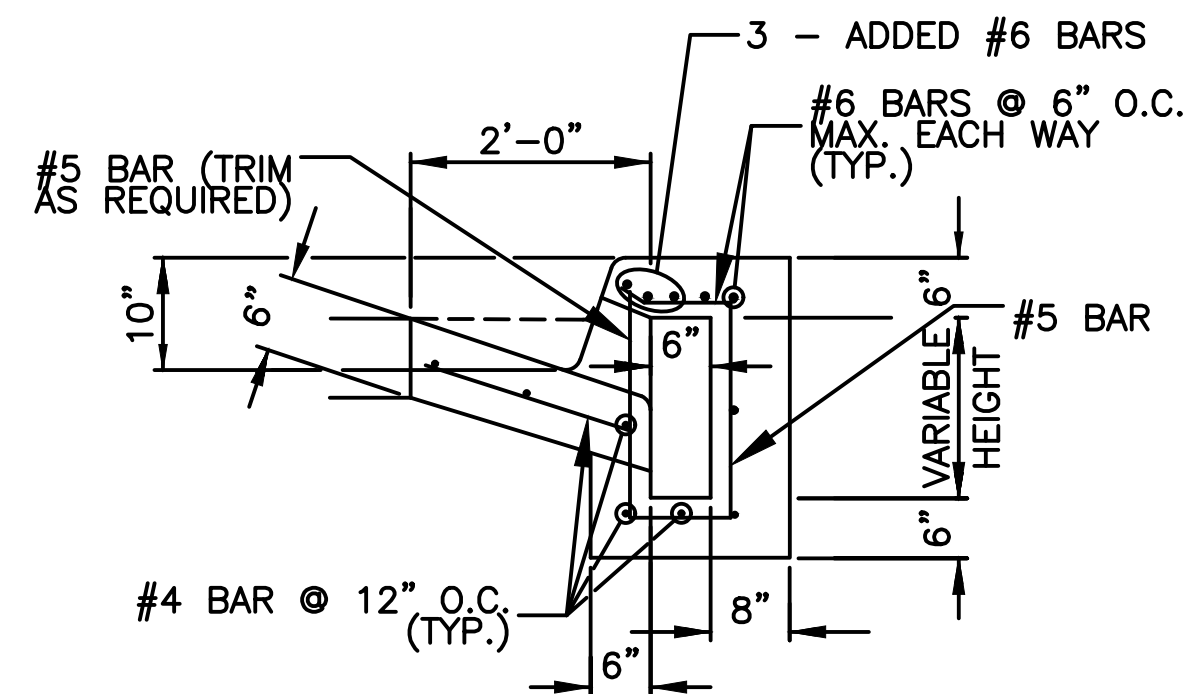
DRAWN BY MJM
DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C4



REVERSE THROAT CURB INLET
CI-4



REVERSE THROAT EXTENSION DETAIL
N.T.S.

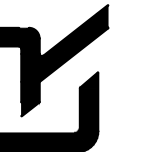


REVISIONS	DATE

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

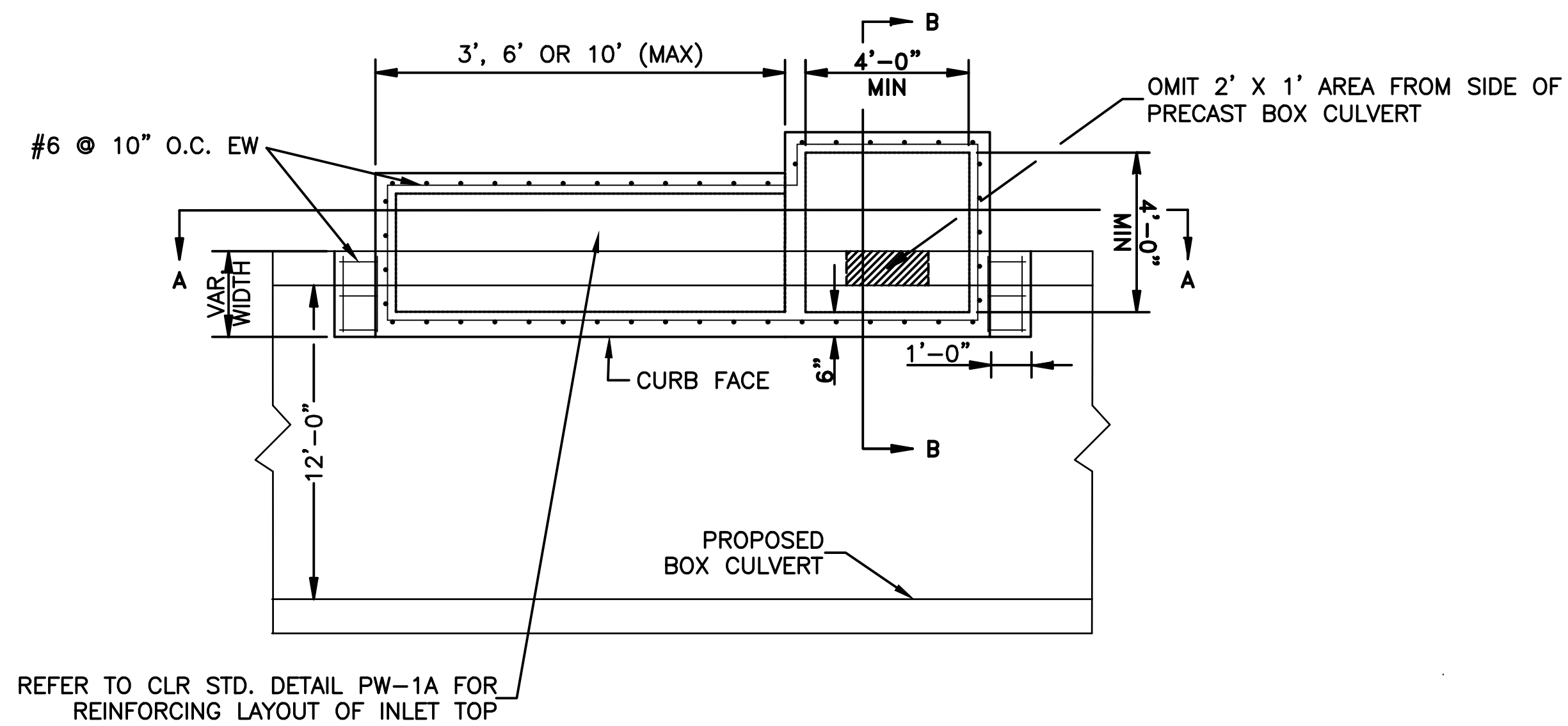
SPECIAL DETAILS

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

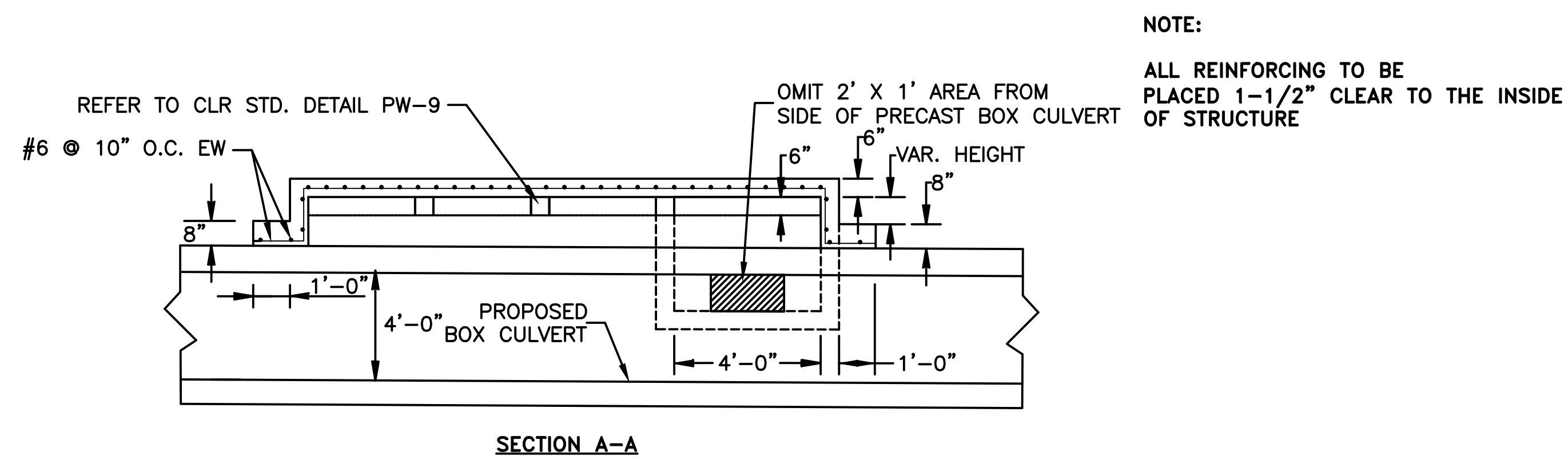


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RCC
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RCC
DATE
12-10-2019
SCALE
N.T.S.
PROJECT NO.
03-17-DR-107
SHEET NO.

C5

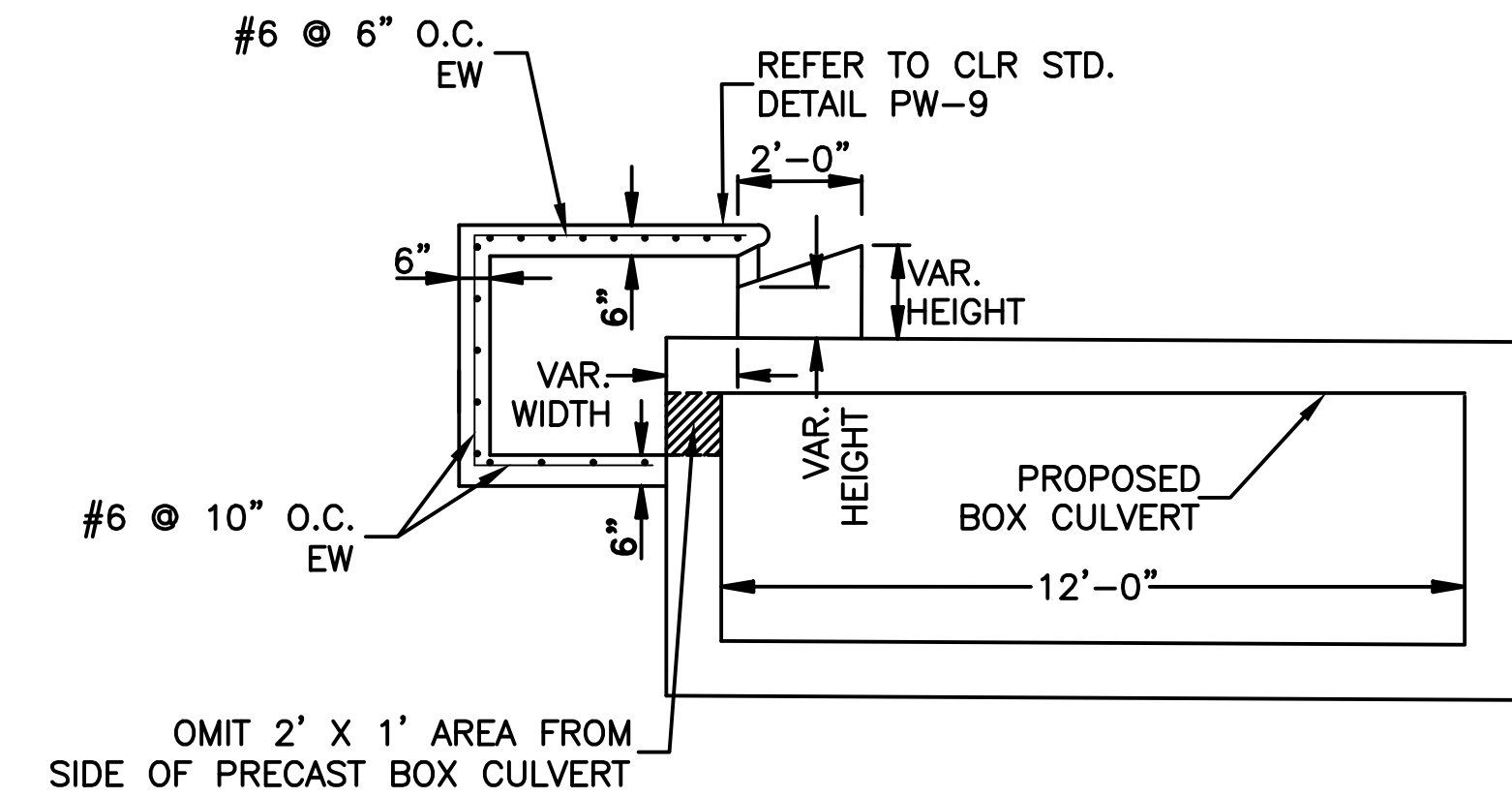


PLAN

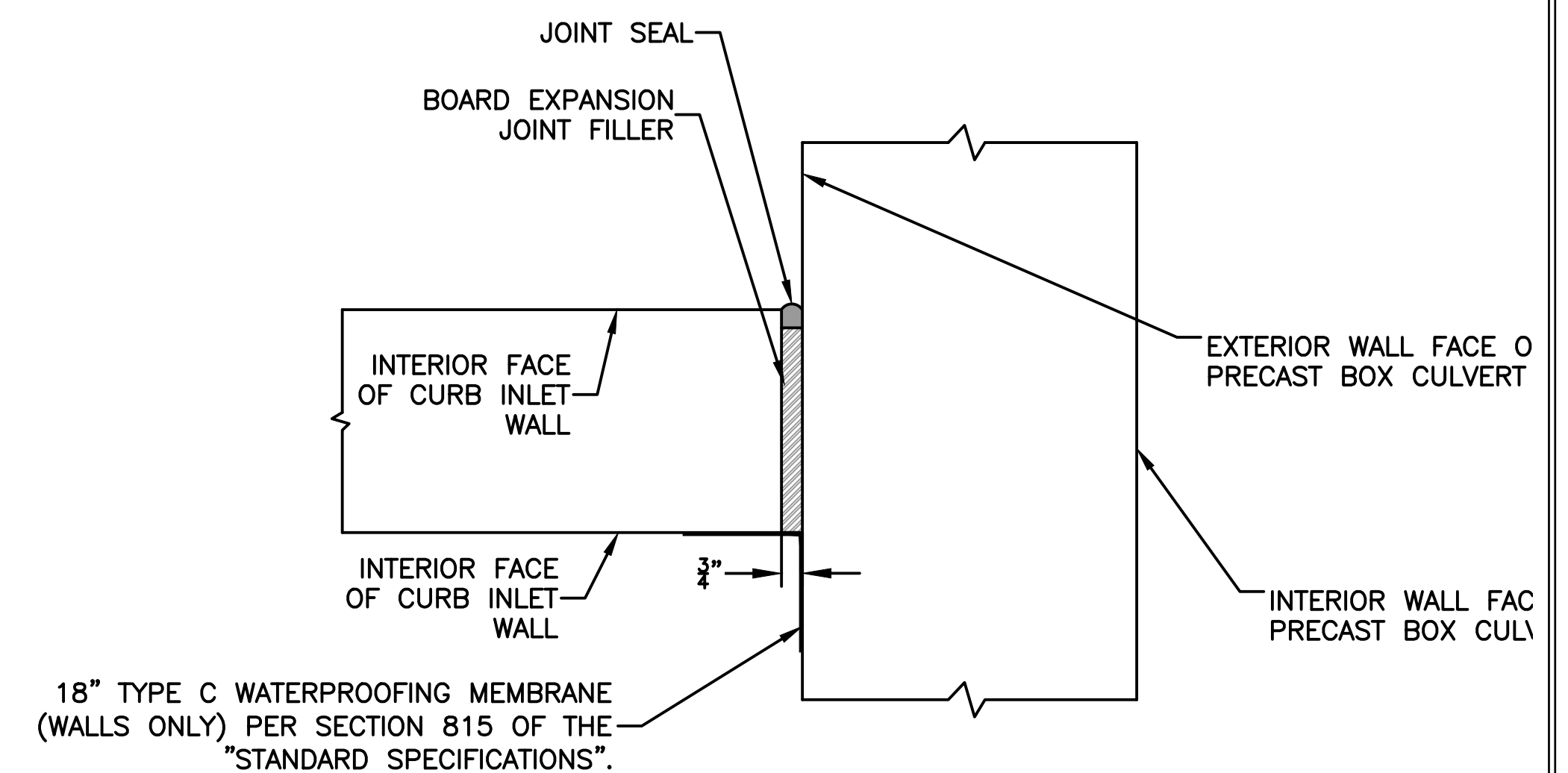


SECTION A-A

CURB INLET CONNECTION TO BOX DETAIL
CI-2, CI-3, CI-4, CI-5



SECTION B-B



JOINT DETAIL FOR CURB INLET
CONNECTION TO BOX CULVERT

REVISIONS	DATE

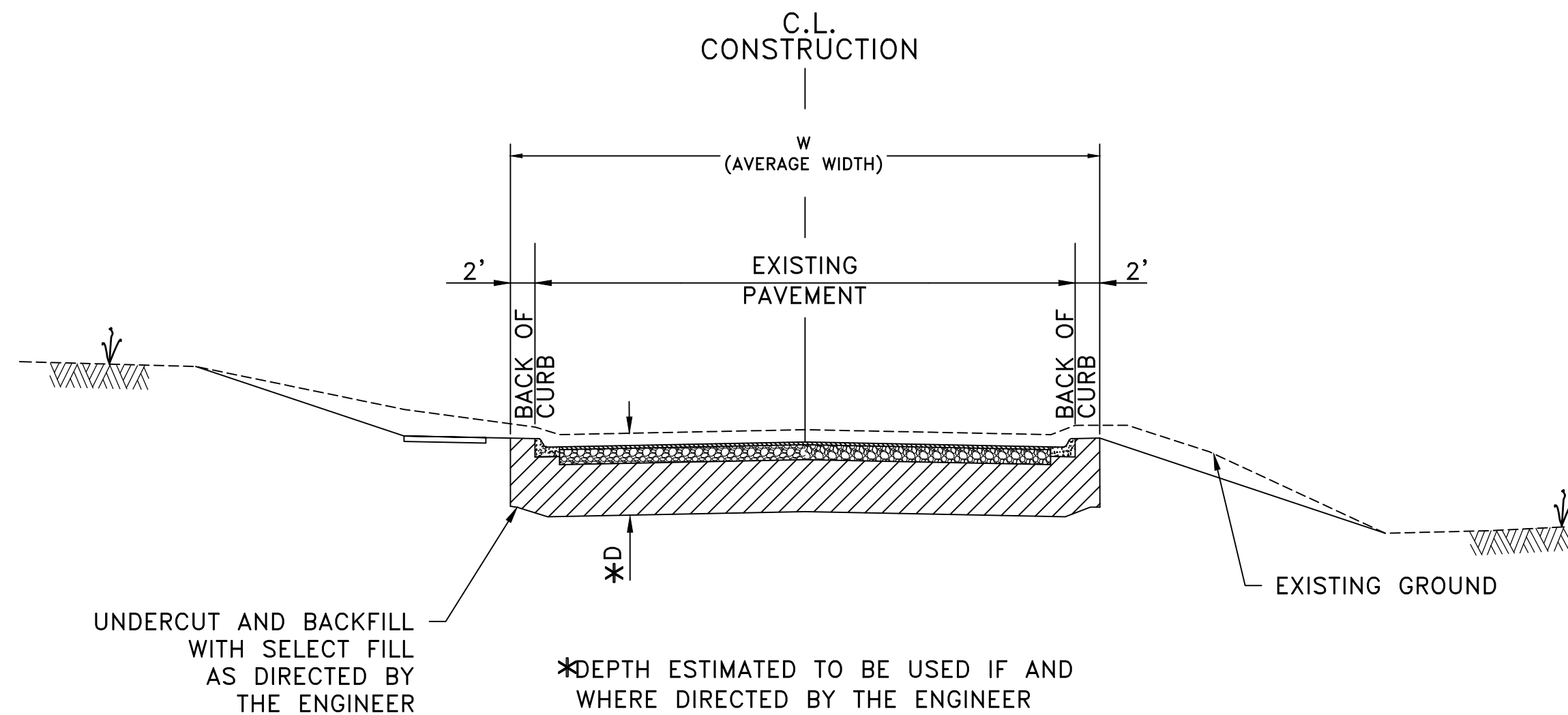
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

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



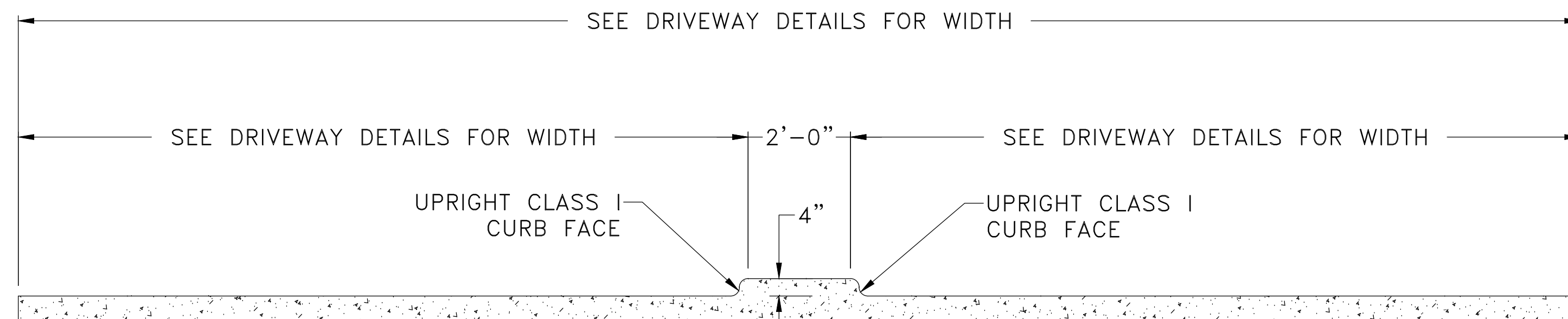
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CHECKED RCC
DATE 12-10-2019
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C6



DETAIL OF UNDERCUT

ALL LOCATIONS OUTSIDE EXCAVATION LIMITS FOR REINFORCED CONCRETE BOX CULVERT.

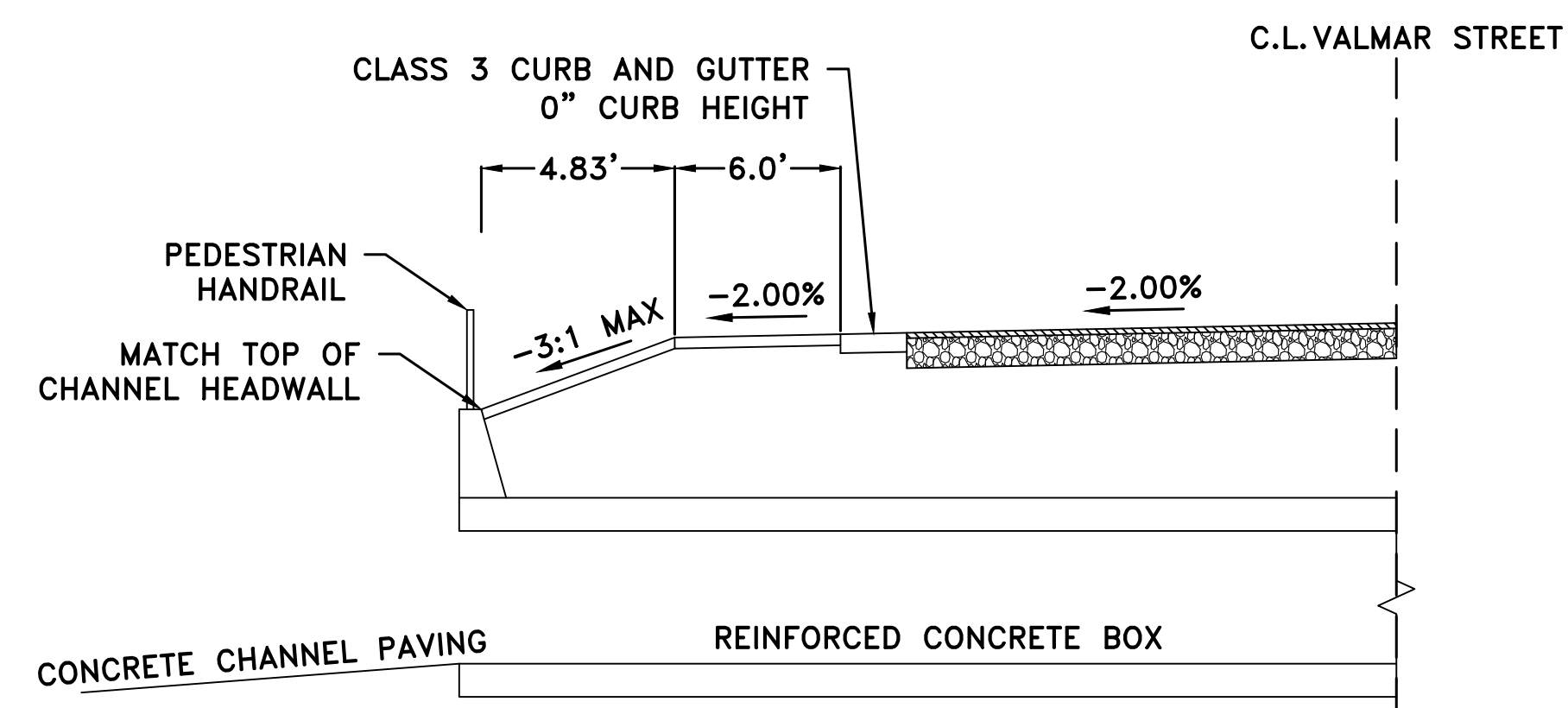
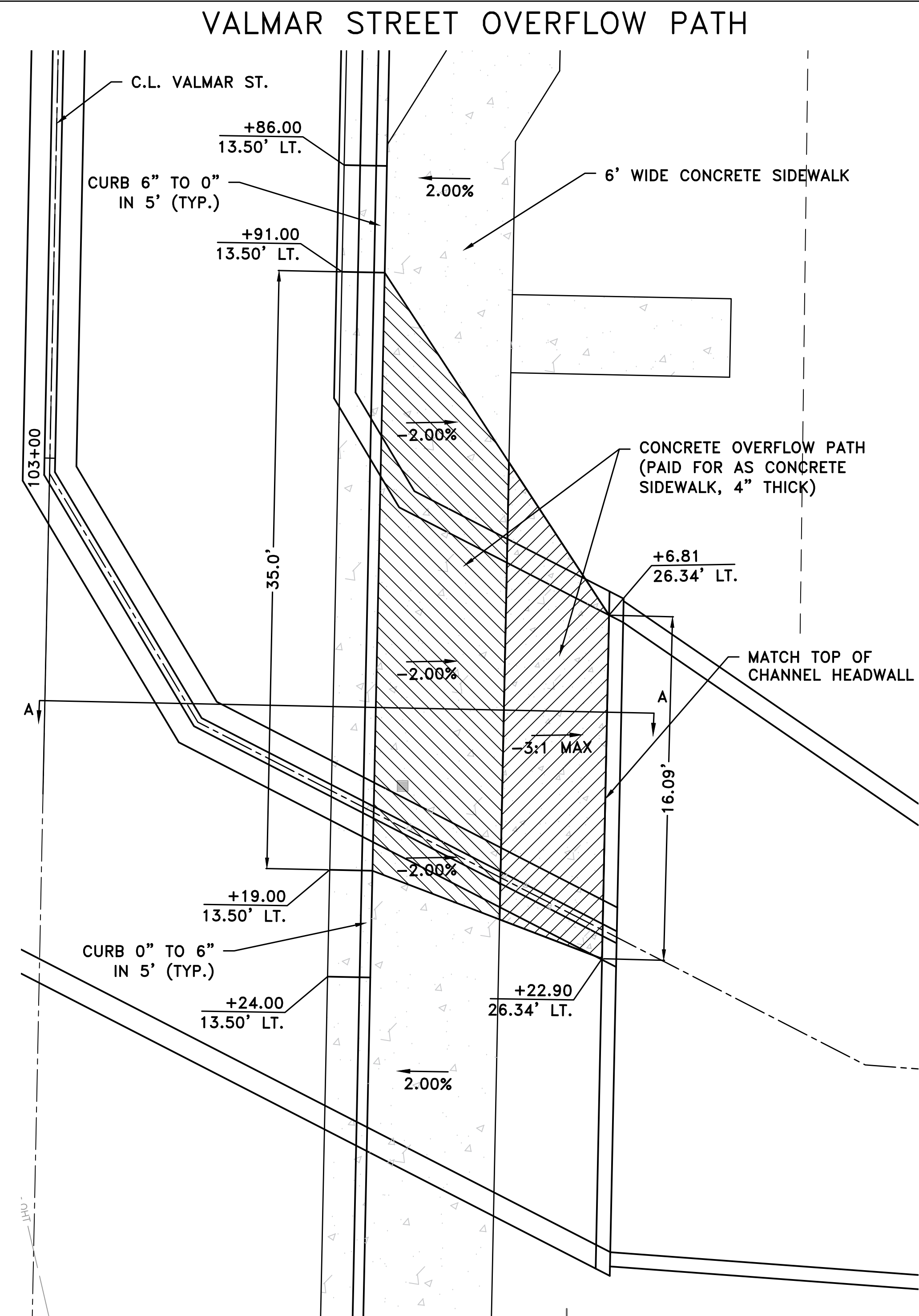
WEST 4TH STREET	D = 3'-4'	W = 30' (AVG)
SOUTH VALENTINE STREET	D = 3'-4'	W = 35' (AVG)
VALMAR STREET	D = 3'-4'	W = 35' (AVG)



CONCRETE ISLAND IN DRIVEWAY

STA. 13+08.60 LT.
STA. 13+59.85 RT.

NOTE: SEE PW-30, 31, AND 36 FOR ADDITIONAL DETAILS AND GENERAL NOTES



SECTION A-A

REVISIONS	DATE

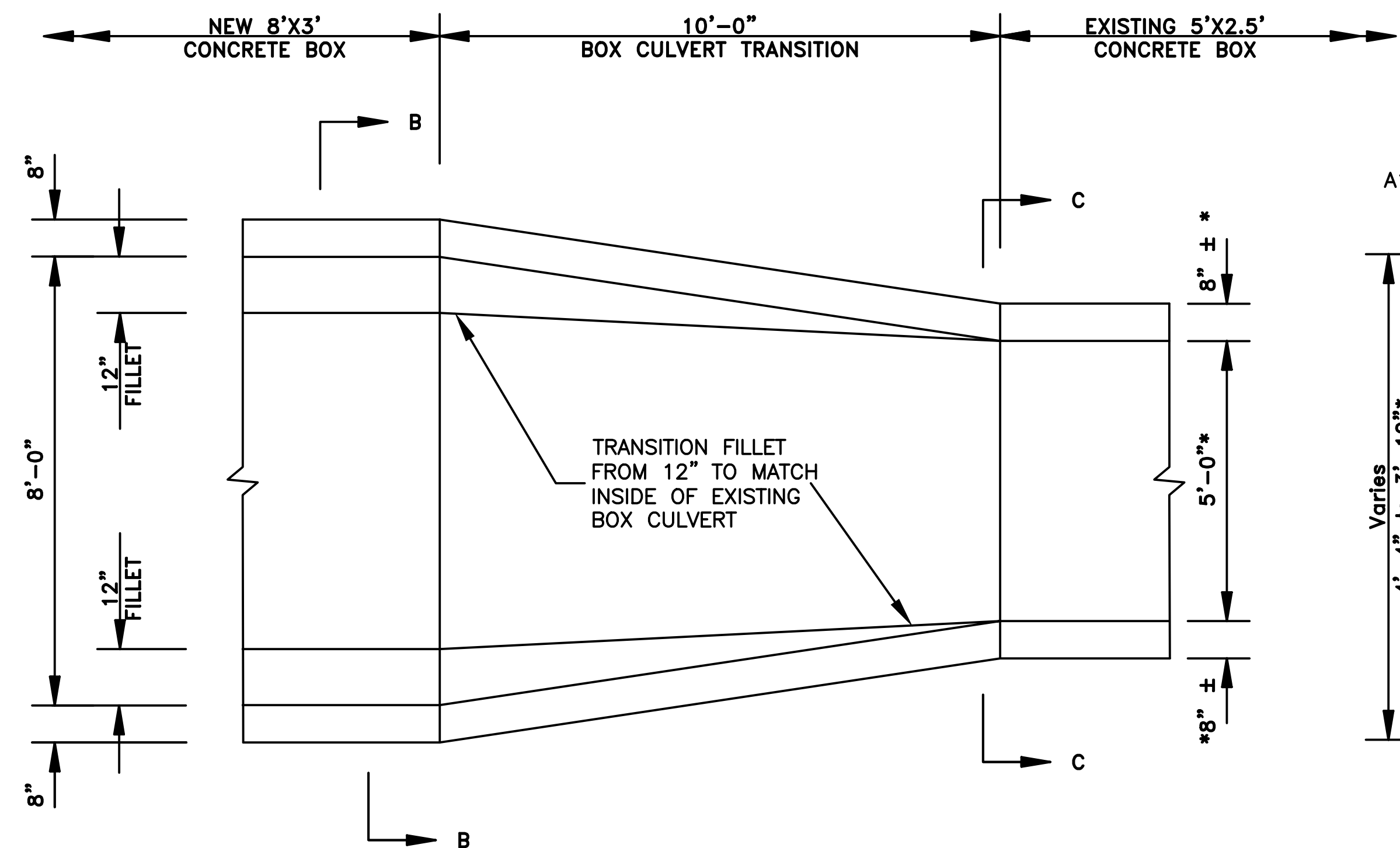
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

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

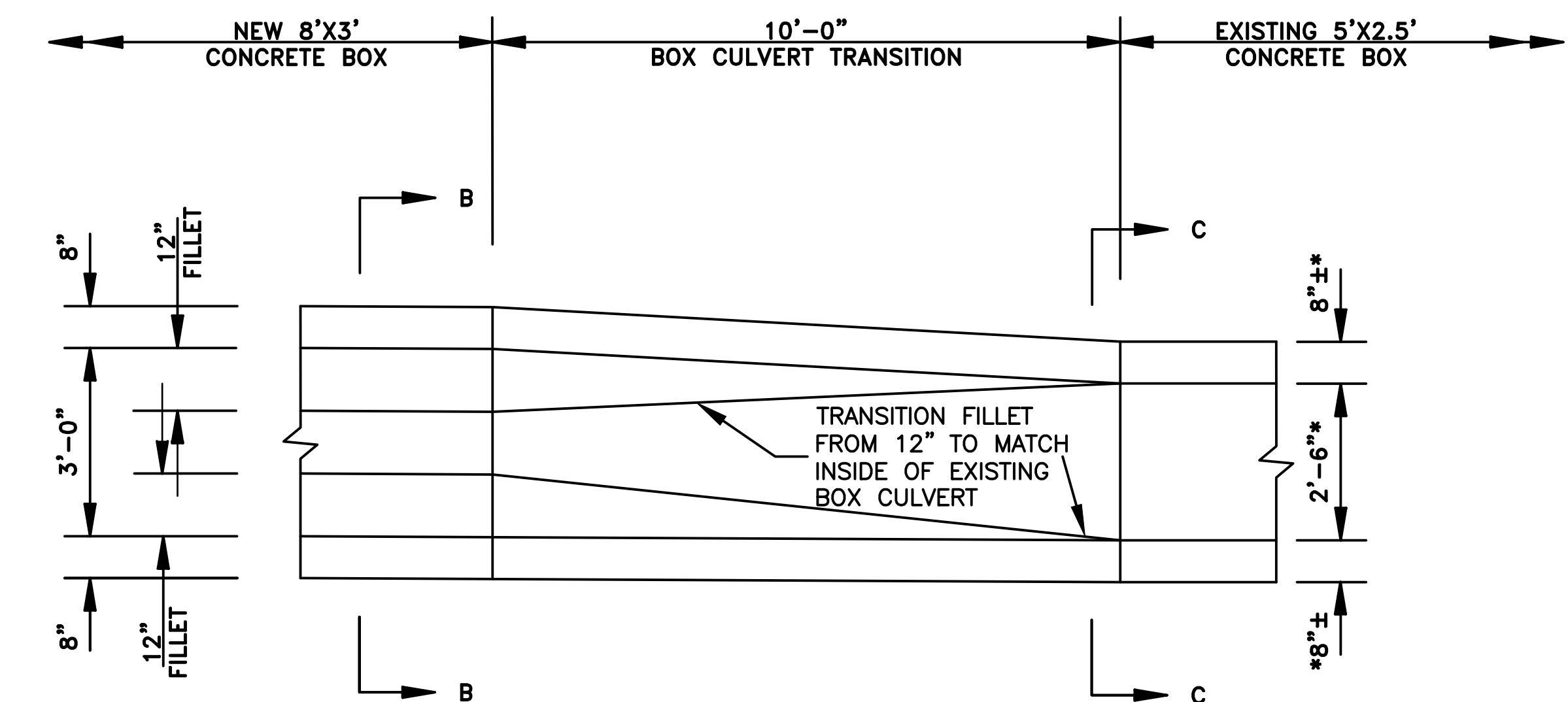


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DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C7

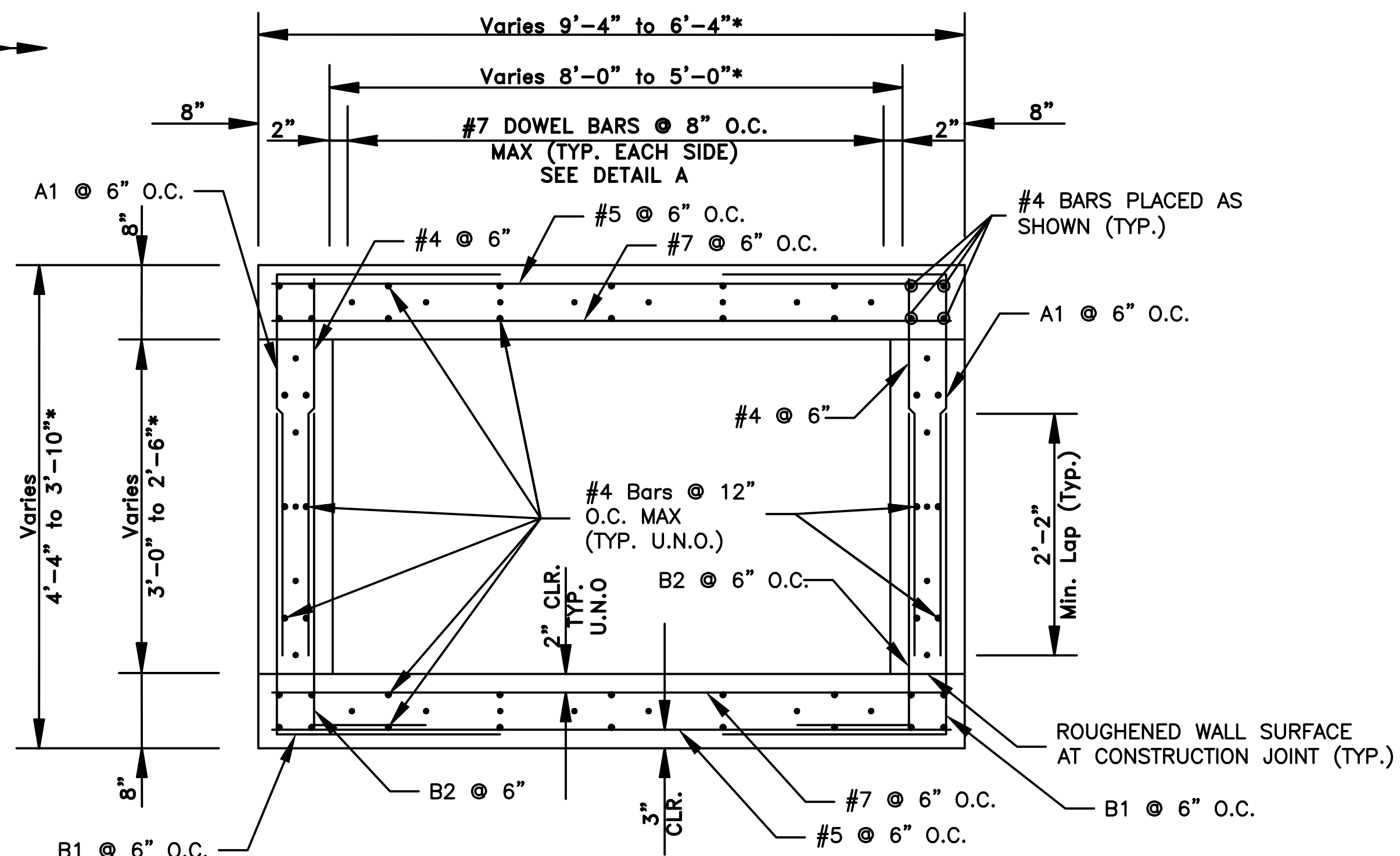


PLAN

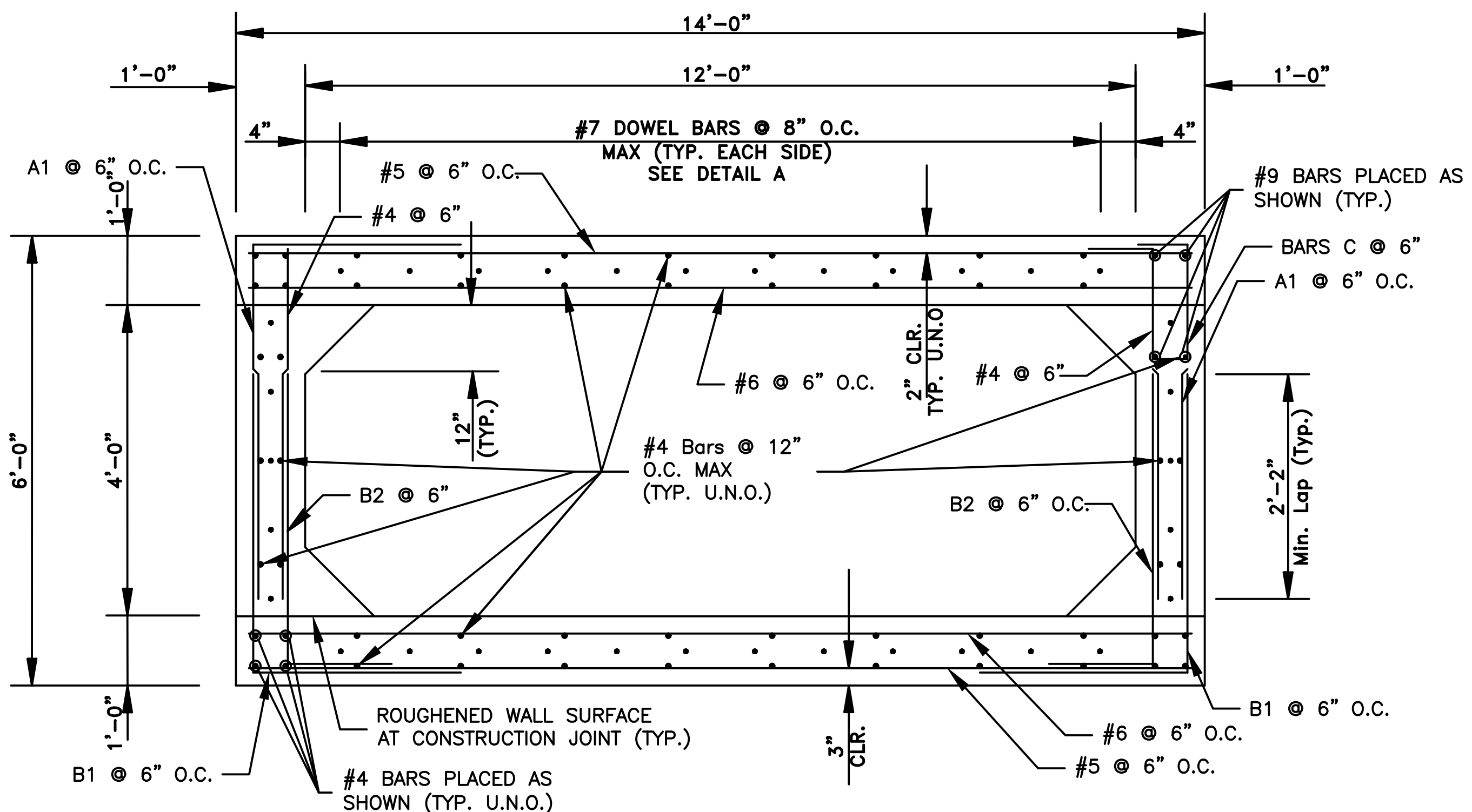
* CONTRACTOR SHALL FIELD VERIFY. NEW BOX CULVERT TRANSITION SHALL MATCH DIMENSIONS OF EXISTING BOX CULVERT



ELEVATION



SECTION C-C



SECTION D-D

REVISIONS	DATE

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

SPECIAL DETAILS

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



DRAWN BY
AMW

DESIGNED
WMM

CHECKED
RCC

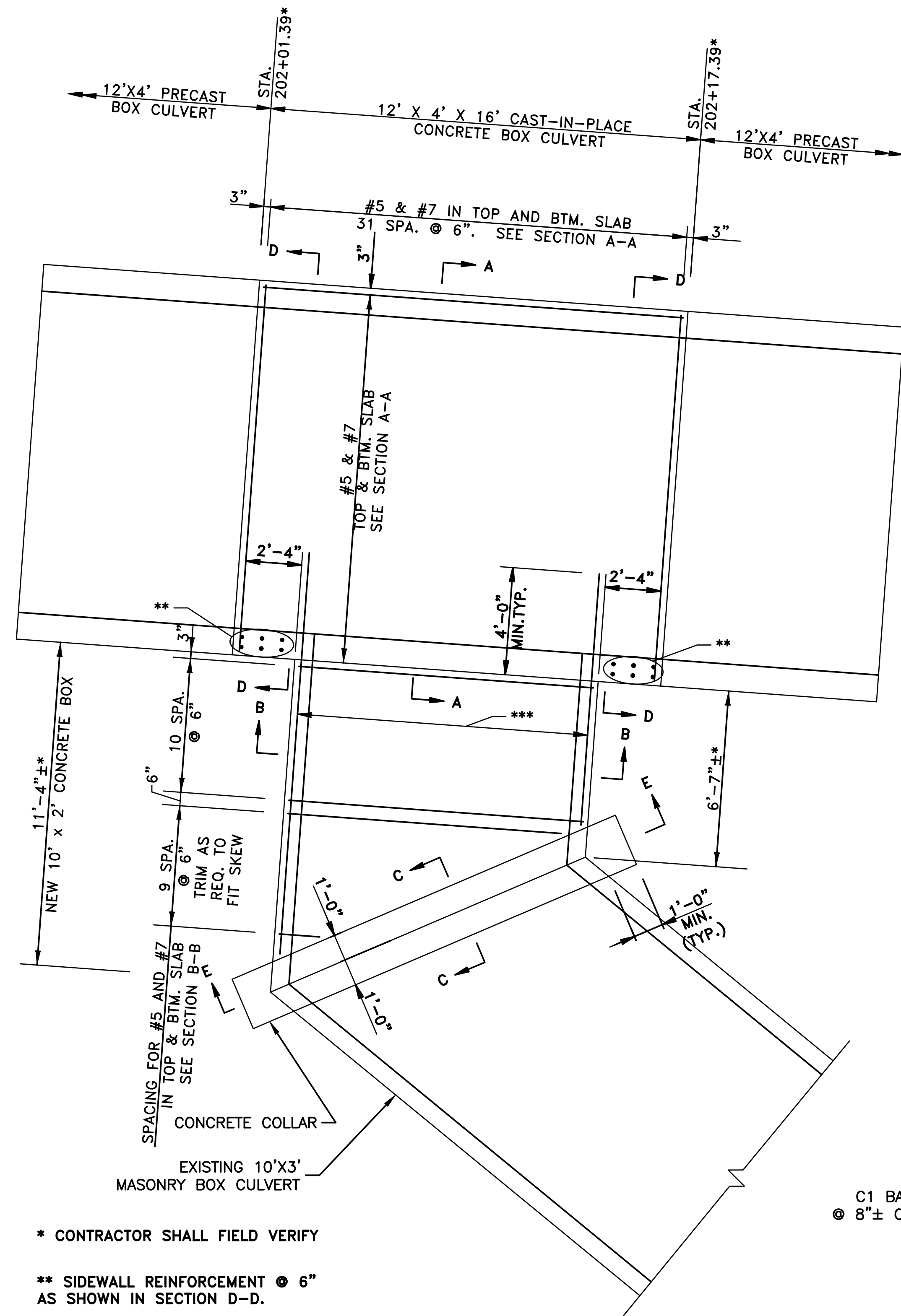
DATE
12-10-2019

SCALE
N.T.S

PROJECT NO.
03-17-DR-107

SHEET NO.

C9

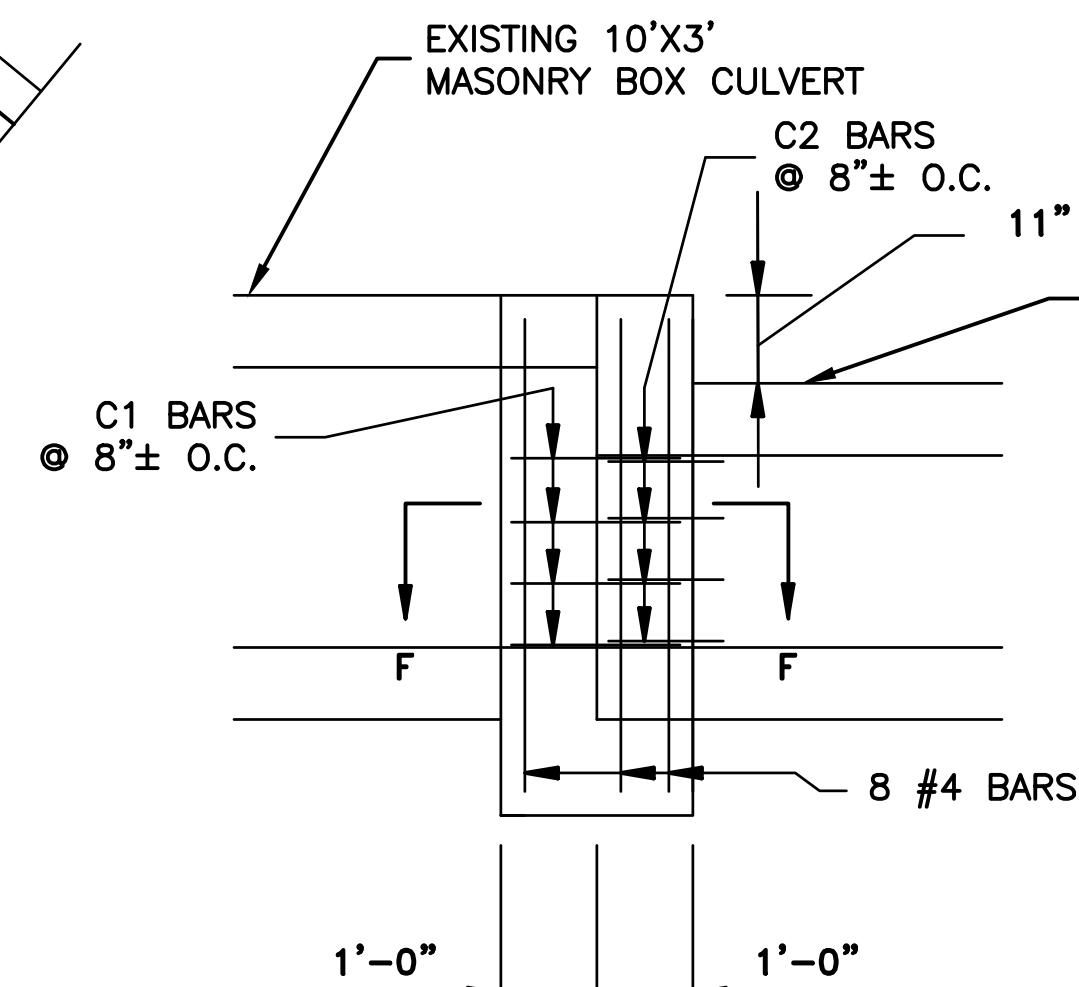


* CONTRACTOR SHALL FIELD VERIFY

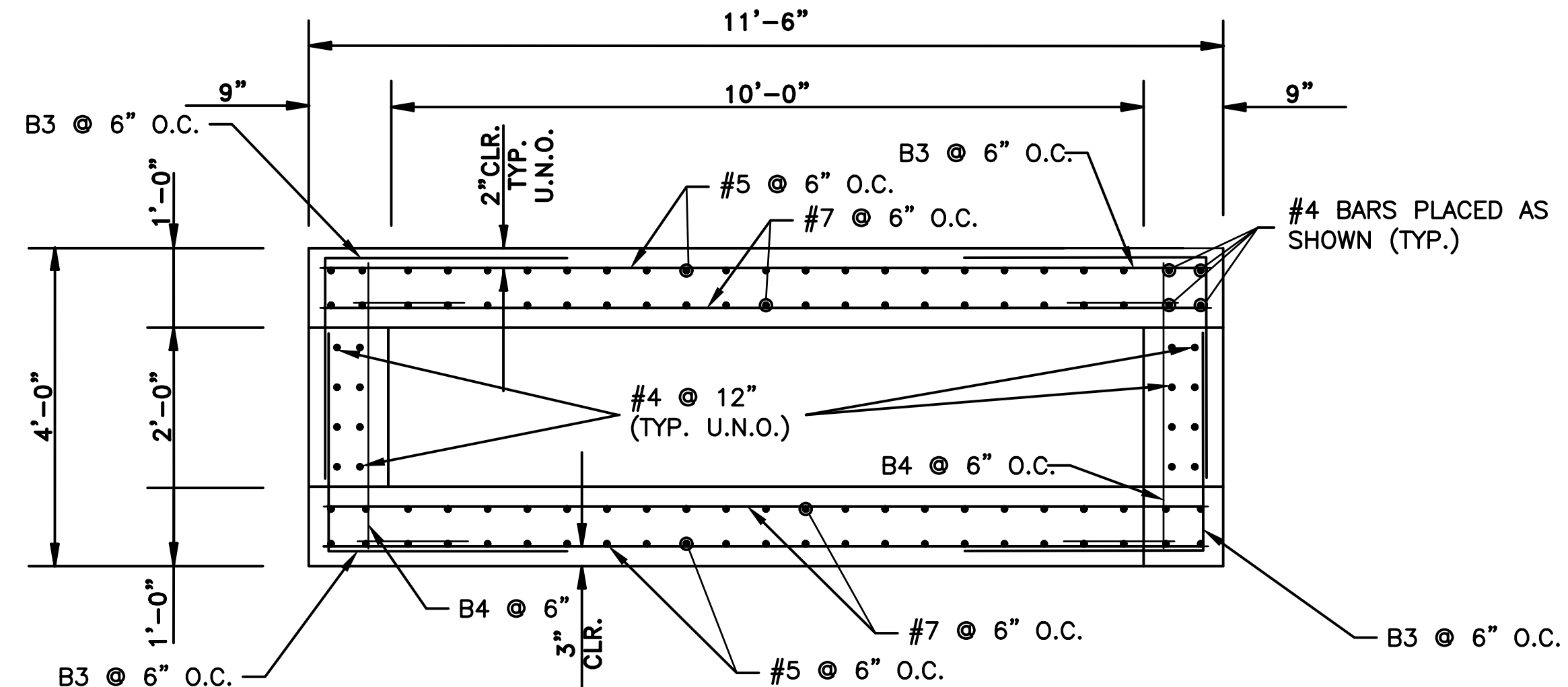
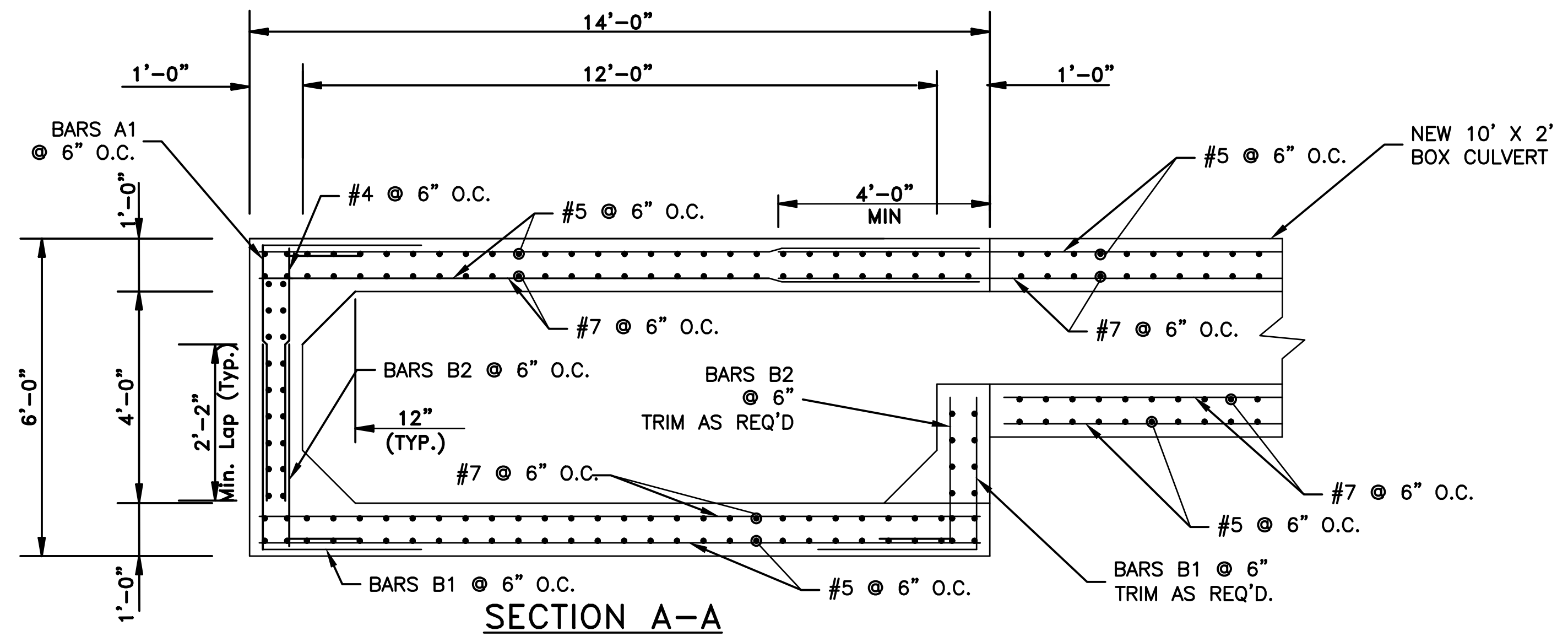
** SIDEWALL REINFORCEMENT @ 6" AS SHOWN IN SECTION D-D.

*** #5 & #7 IN TOP & BTM. SLAB 22-SPA @ 6". SEE SECTION B-B.

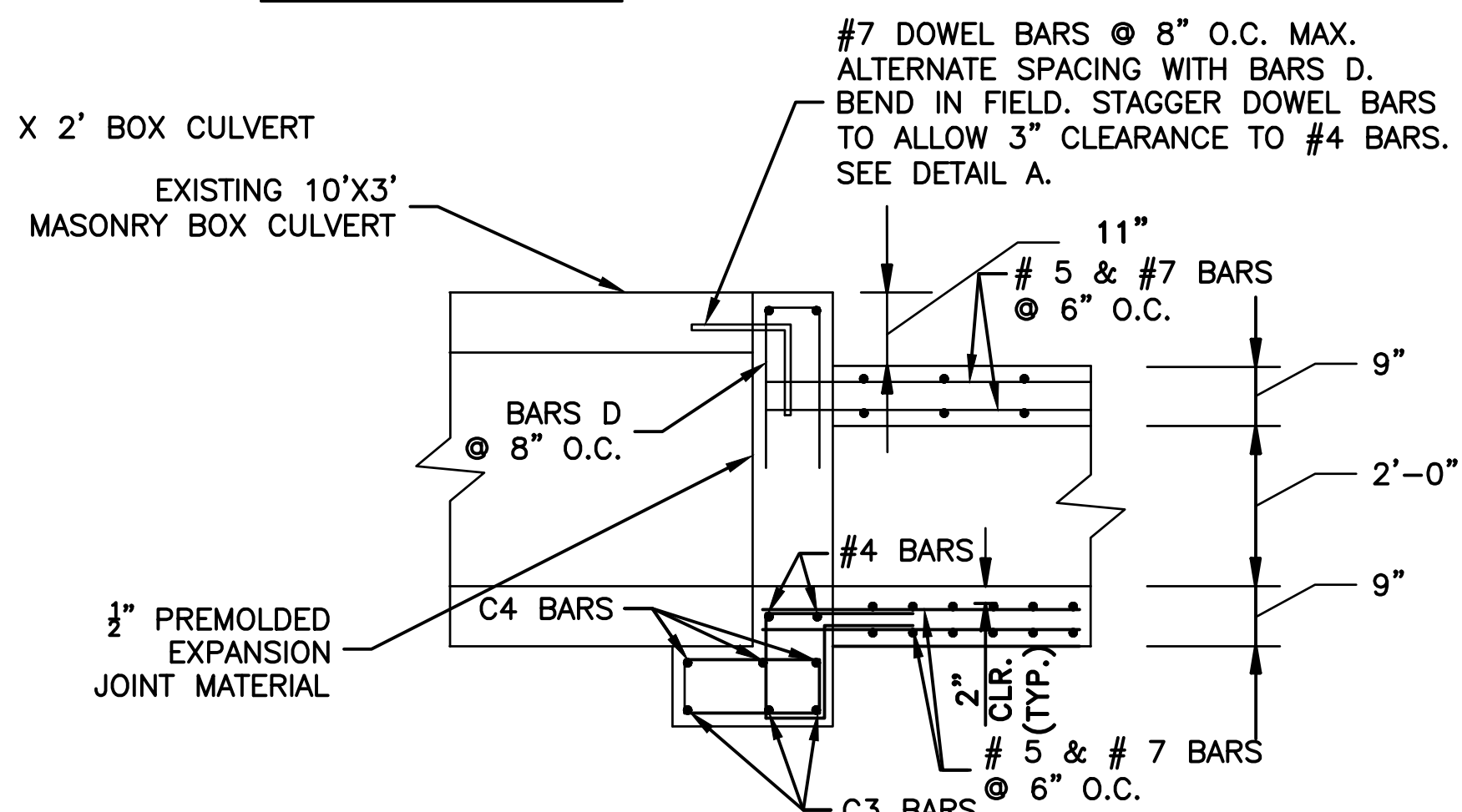
PLAN VIEW
SHOWING DIMENSION & REINFORCEMENT SPACING



ELEVATION
SHOWING DIMENSIONS AND COLLAR REINFORCEMENT



SECTION B-B



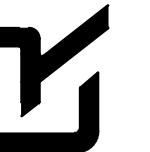
SECTION C-C

REVISIONS DATE

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

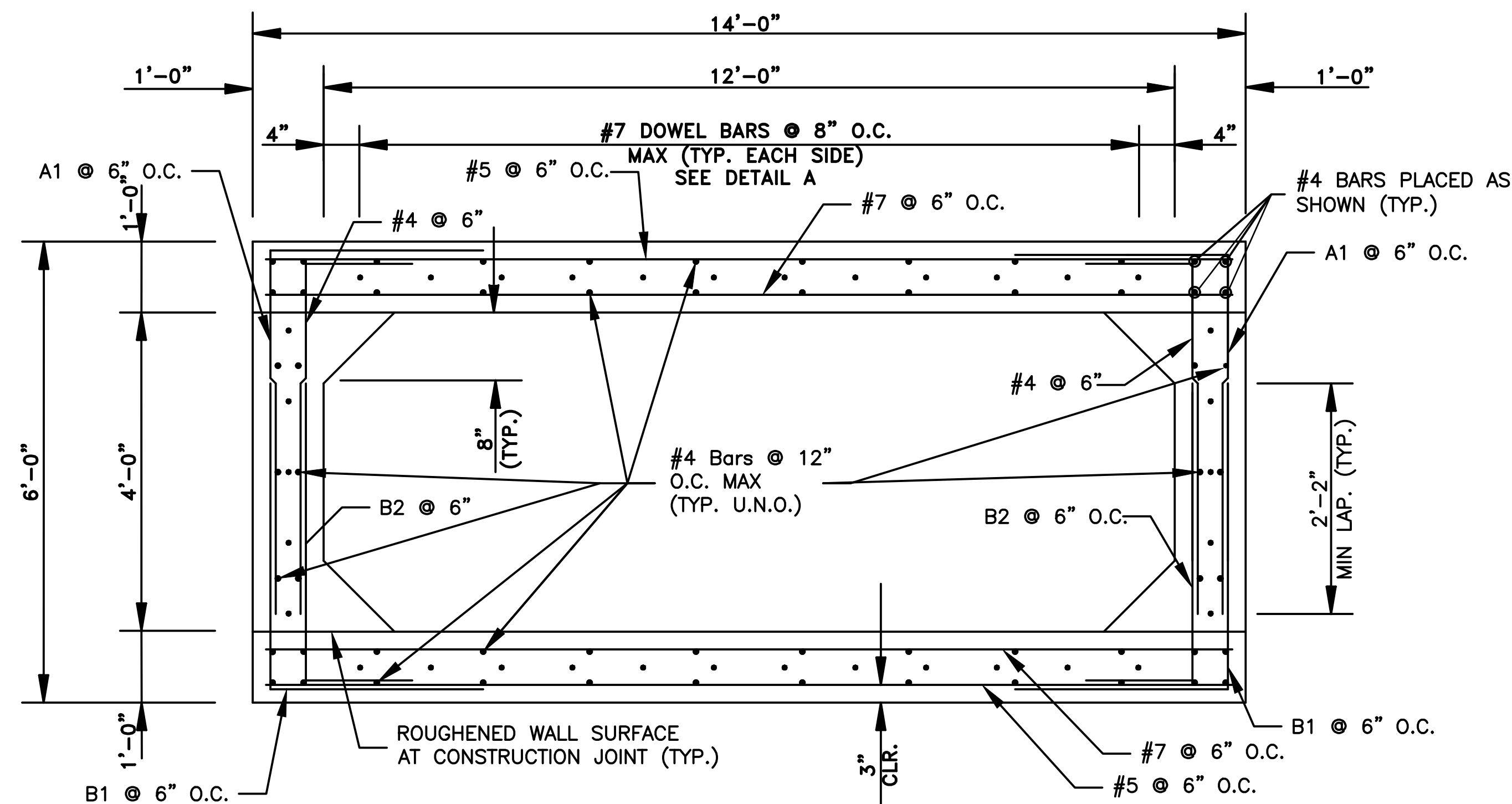
SPECIAL DETAILS

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

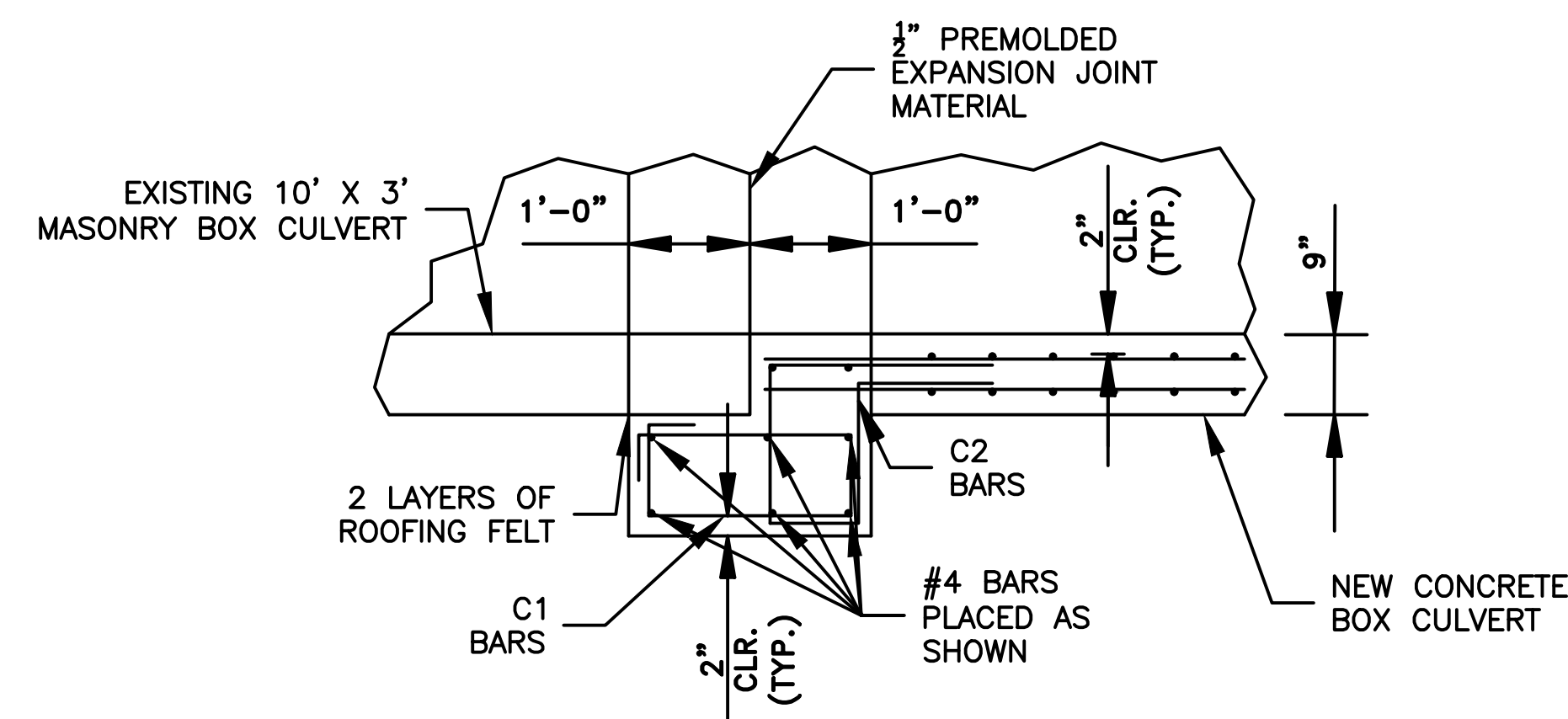


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N.T.S
PROJECT NO.
03-17-DR-107
SHEET NO.

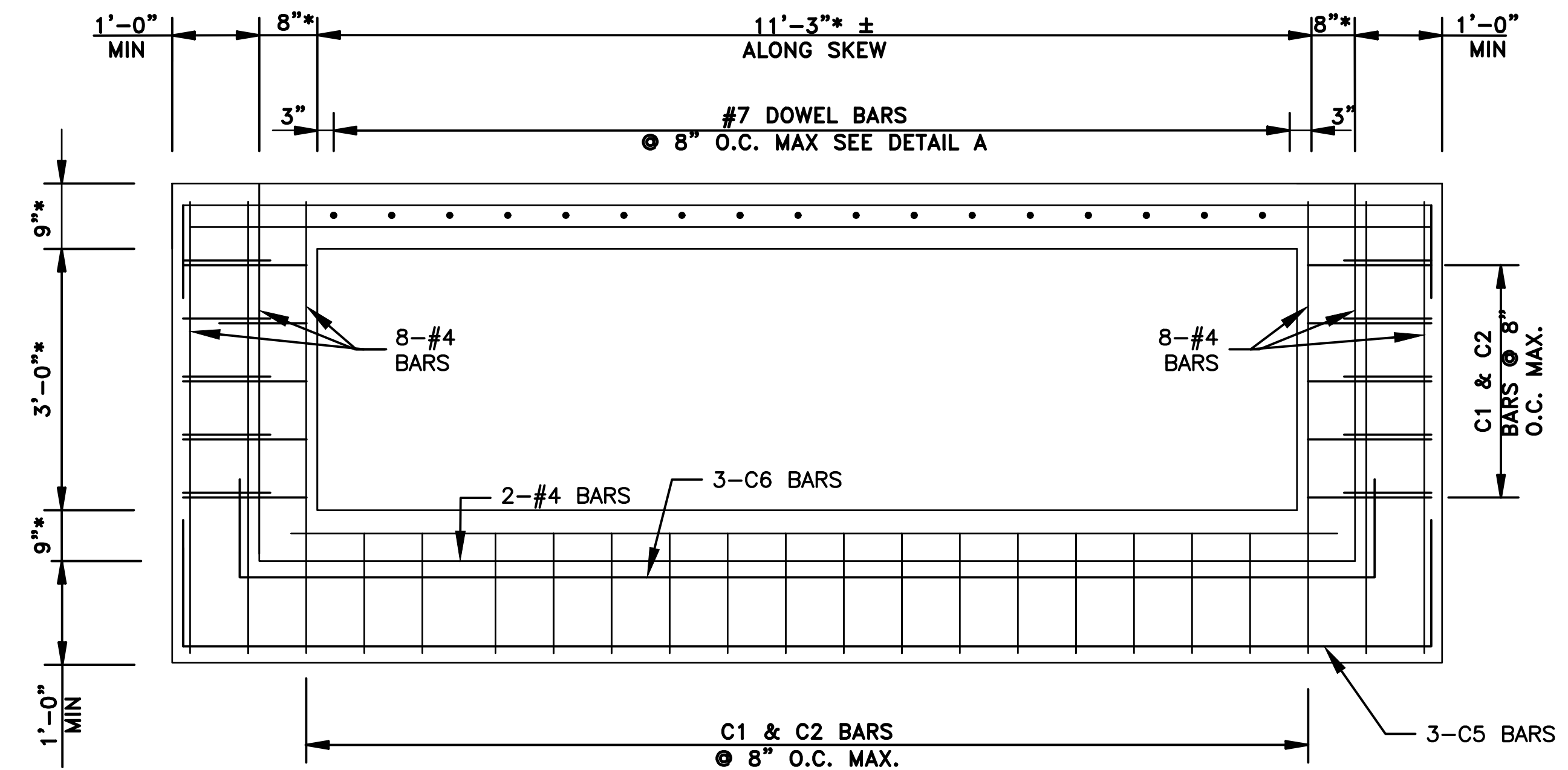
C10



SECTION D-D



SECTION F-F



SECTION E-E
SHOWING COLLAR REINFORCEMENT

* CONTRACTOR SHALL FIELD VERIFY. NEW BOX CULVERT TRANSITION SHALL MATCH DIMENSIONS OF EXISTING BOX CULVERT

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS.
- CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ ". ALL CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $F'_{C}=3,500$ PSI.
- REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60 AND HAVE A 2" MINIMUM CLEARANCE UNLESS OTHERWISE NOTED ON PLANS.
- REINFORCING STEEL IN BOTTOM SLAB SHALL BE SUPPORTED ON BAR CHAIRS. CHAIRS SHALL BE SUPPORTED ON TIMBER PLANKS OR CLASS C CONCRETE STRIPS SPACED AT 4.0 FOOT CENTERS. THE TOP CHAIR SUPPORTS SHALL BE AT THE ELEVATION OF THE BOTTOM OF THE FOOTING.
- REINFORCING STEEL IN THE TOP SLAB SHALL BE SUPPORTED ON SLAB SPACERS.
- REINFORCING STEEL IN THE WALLS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE ON 6.0 FOOT CENTERS.
- COST OF METAL CHAIRS, WOOD PLANKS OR CONCRETE STRIPS SHALL BE INCLUDED ON OTHER ITEMS OF WORK.
- EXCAVATION AND BACKFILL REQUIRED TO CONSTRUCT THE BOX CULVERT WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT WILL BE CONSIDERED SUBSIDIARY WORK PERTAINING TO THE CONSTRUCTION OF THE BOX CULVERT.

REVISIONS DATE

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

SPECIAL DETAILS

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



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AMW

DESIGNED

WMM

CHECKED

RCC

DATE

12-10-2019

SCALE

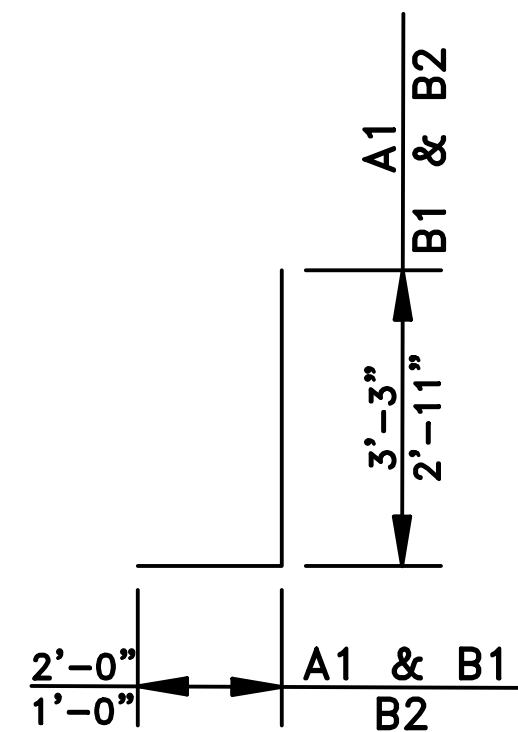
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PROJECT NO.

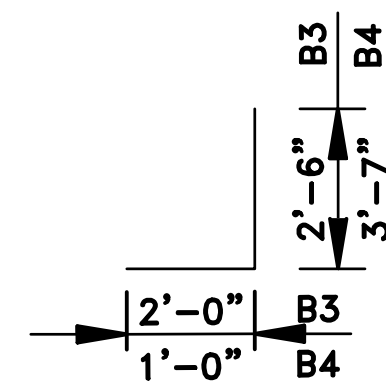
03-17-DR-107

SHEET NO.

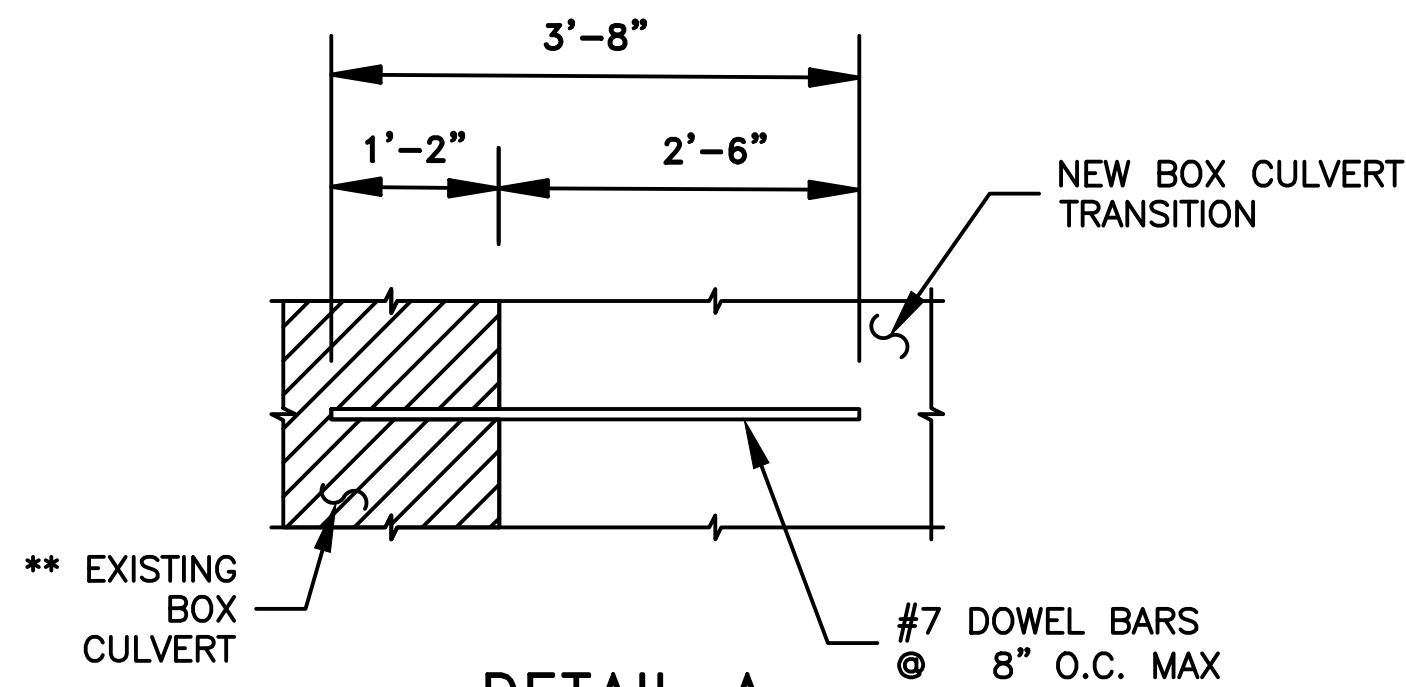
C11



A1, B1, & B2 - #5



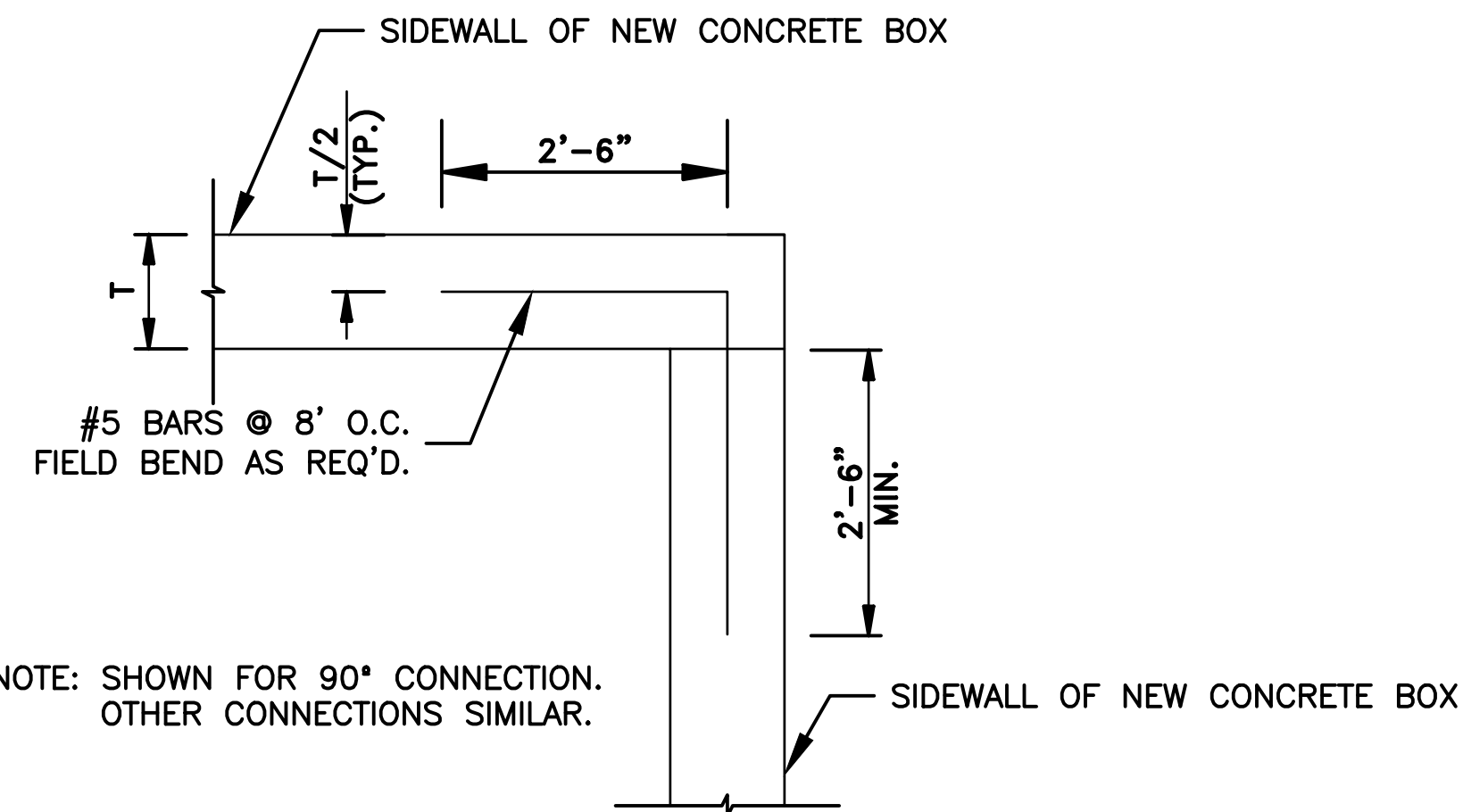
B3 & B4 - #5



DETAIL A

** EXISTING BOX CULVERT

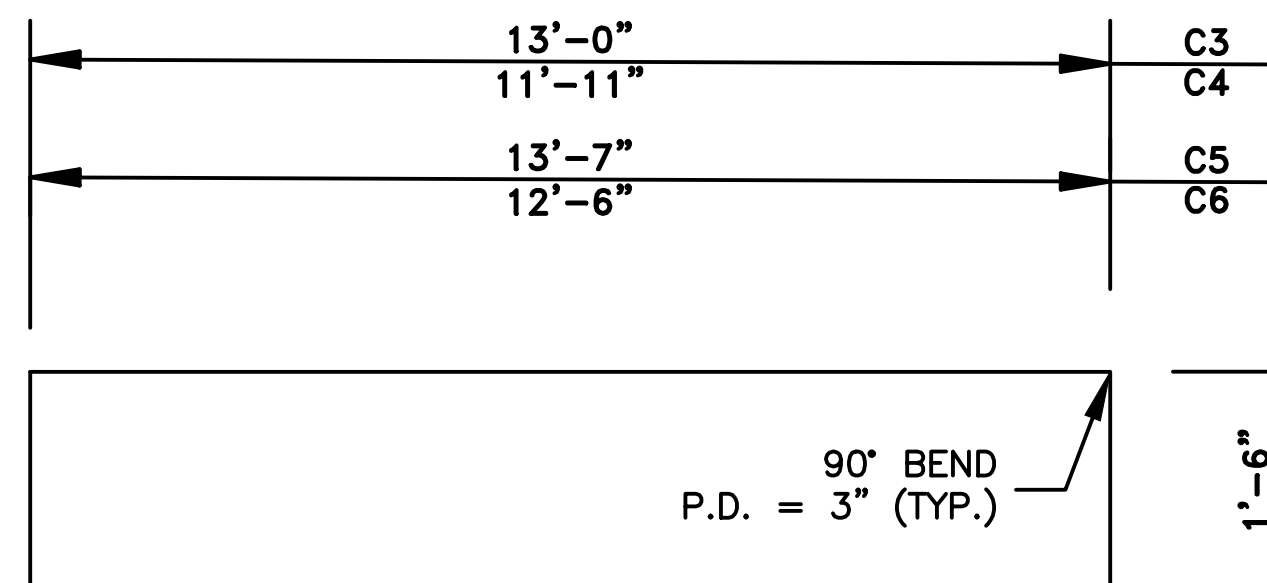
** BARS SHOWN TO BE EMBEDDED INTO EXISTING BOX CULVERT SHALL BE SECURED USING HILTI HIT RE500 EPOXY ANCHOR OR APPROVED EQUAL. ALL BARS SHALL BE EMBEDDED TO DEPTH SHOWN IN DETAIL A IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. HOLES FOR EMBEDDED BARS SHALL BE DRILLED $\frac{1}{4}$ " LARGER IN DIAMETER THAN THE BAR.



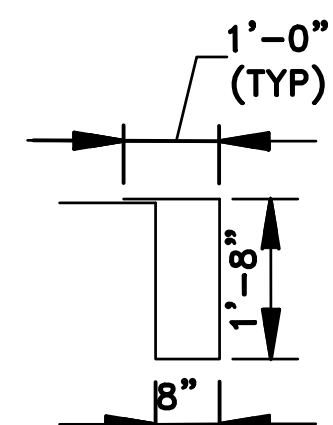
NOTE: SHOWN FOR 90° CONNECTION. OTHER CONNECTIONS SIMILAR.

PLAN VIEW - CORNER DETAIL

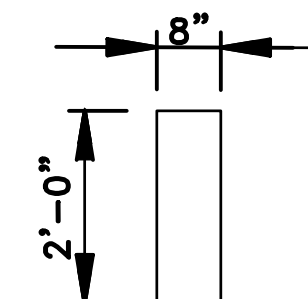
SHOWING CONNECTIONS AT NEW CAST-IN-PLACE CONCRETE BOXES



C3-C6 BARS - #4



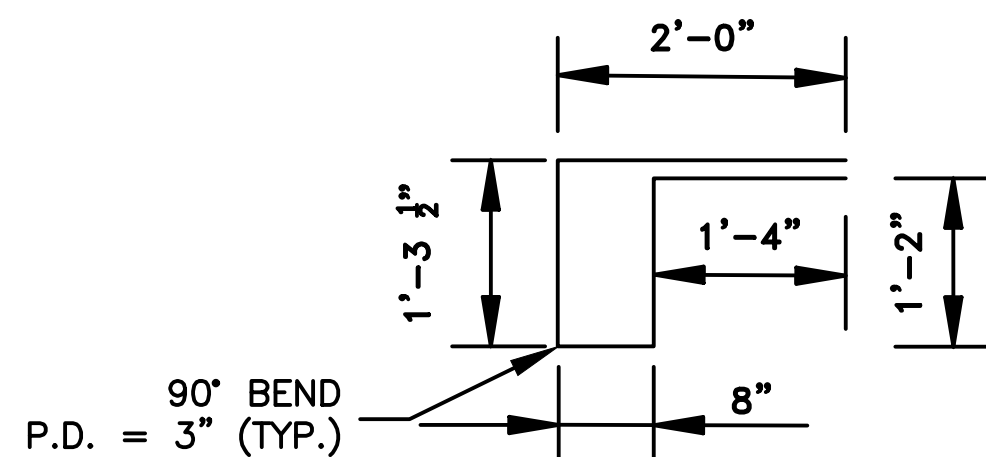
C BARS - #5



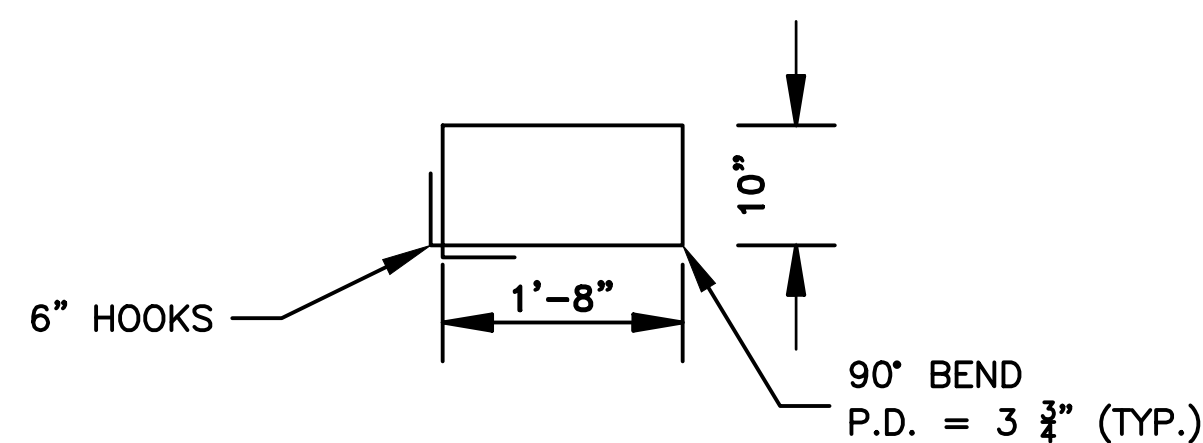
BARS D - #5

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS.
2. CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ ". ALL CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $F'C=3,500$ PSI.
3. REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60 AND HAVE A 2" MINIMUM CLEARANCE UNLESS OTHERWISE NOTED ON PLANS.
4. REINFORCING STEEL IN BOTTOM SLAB SHALL BE SUPPORTED ON BAR CHAIRS. CHAIRS SHALL BE SUPPORTED ON TIMBER PLANKS OR CLASS C CONCRETE STRIPS SPACED AT 4.0 FOOT CENTERS. THE TOP CHAIR SUPPORTS SHALL BE AT THE ELEVATION OF THE BOTTOM OF THE FOOTING.
5. REINFORCING STEEL IN THE TOP SLAB SHALL BE SUPPORTED ON SLAB SPACERS.
6. REINFORCING STEEL IN THE WALLS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE ON 6.0 FOOT CENTERS.
7. COST OF METAL CHAIRS, WOOD PLANKS OR CONCRETE STRIPS SHALL BE INCLUDED ON OTHER ITEMS OF WORK.
8. EXCAVATION AND BACKFILL REQUIRED TO CONSTRUCT THE BOX CULVERT WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT WILL BE CONSIDERED SUBSIDIARY WORK PERTAINING TO THE CONSTRUCTION OF THE BOX CULVERT.



C2 BARS - #4



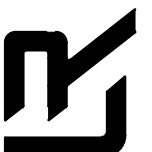
C1 BARS - #5

REVISIONS	DATE

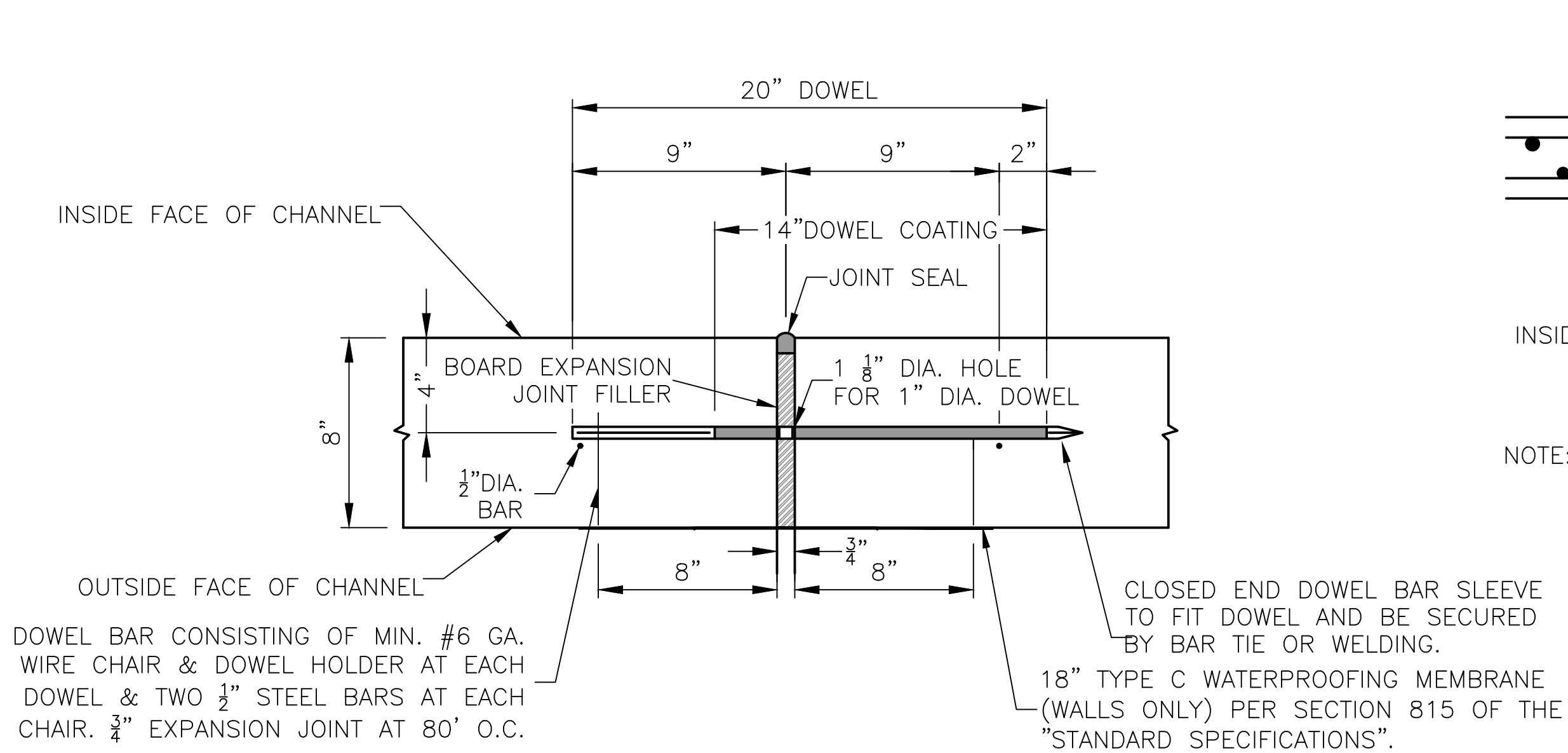
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

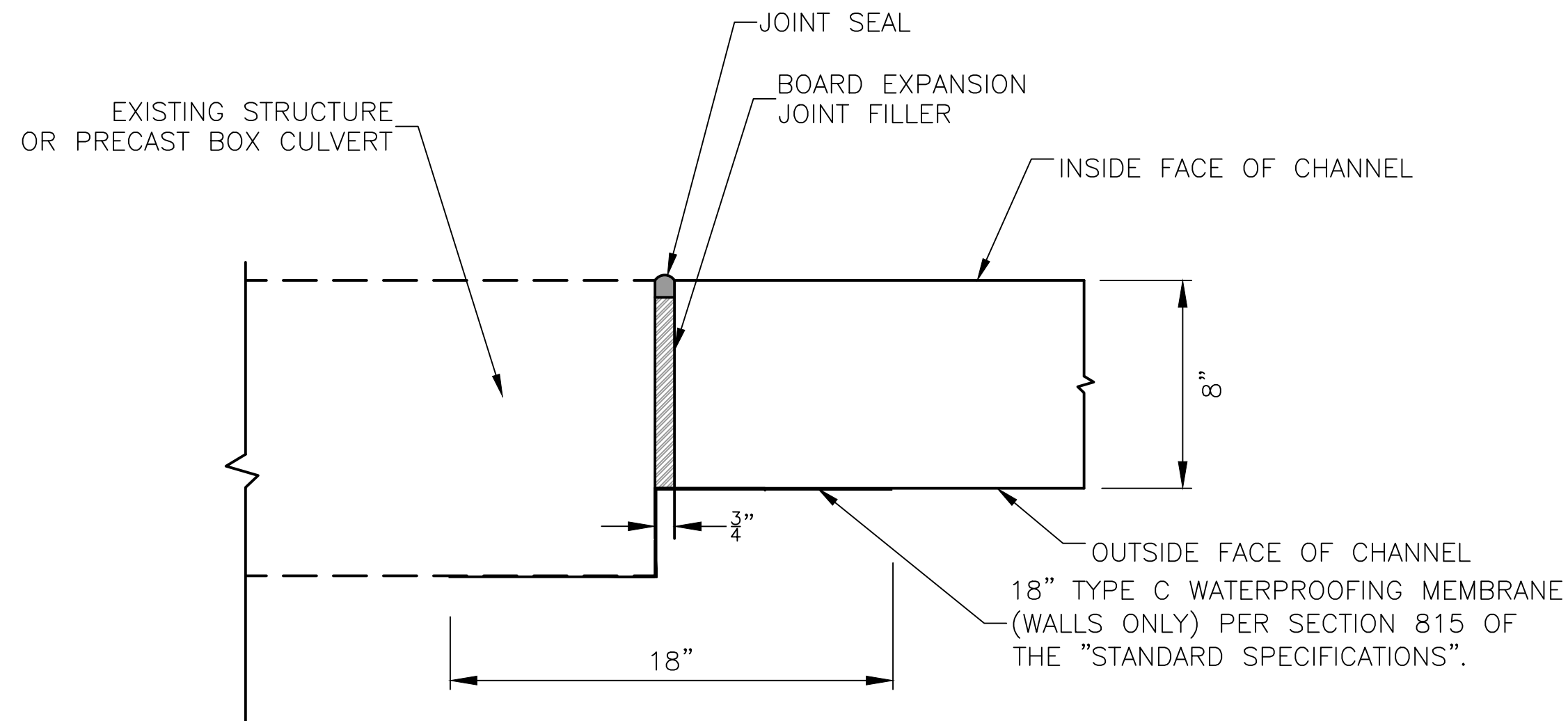
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



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DATE 12-10-2019
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PROJECT NO. 03-17-DR-107
SHEET NO. C14

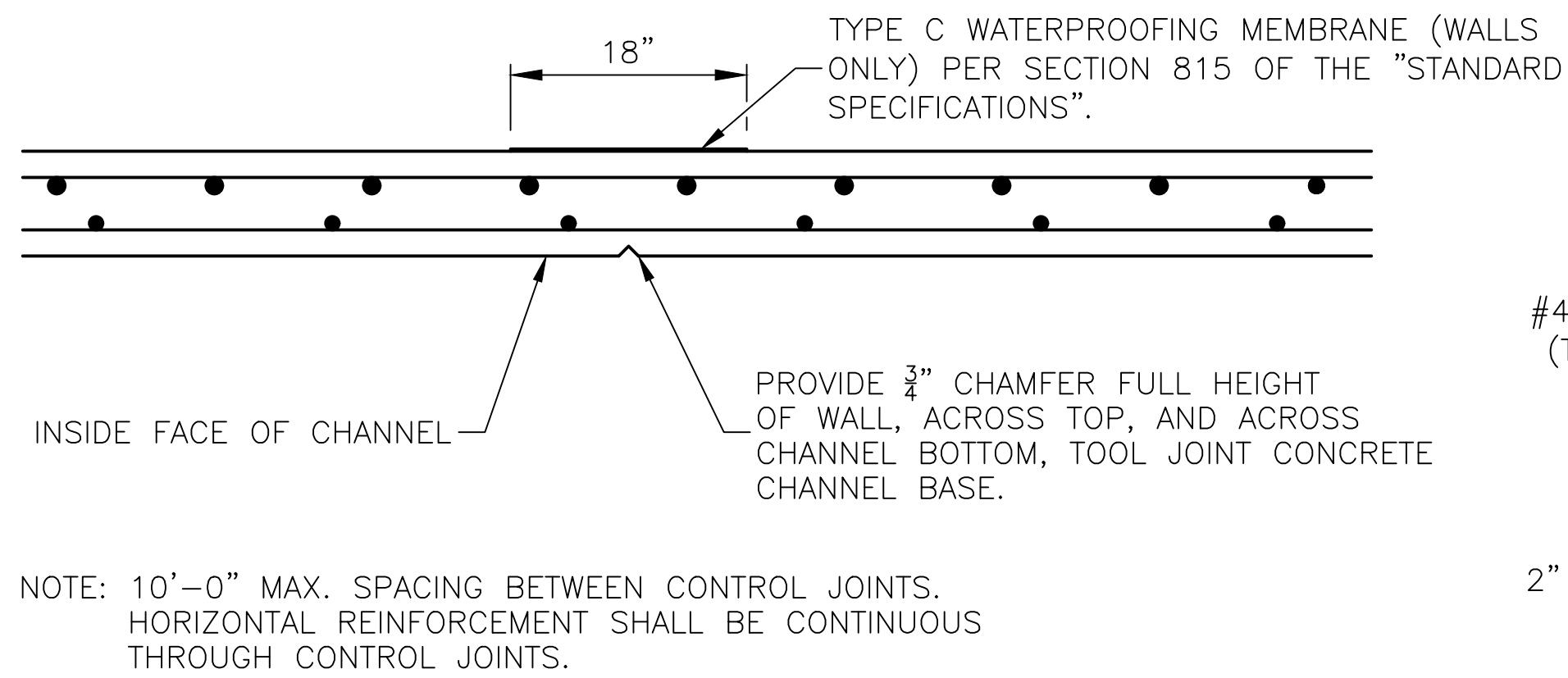


EXPANSION JOINT FOR CONCRETE CHANNEL
(DOWEL BARS TO BE 12" O.C.)

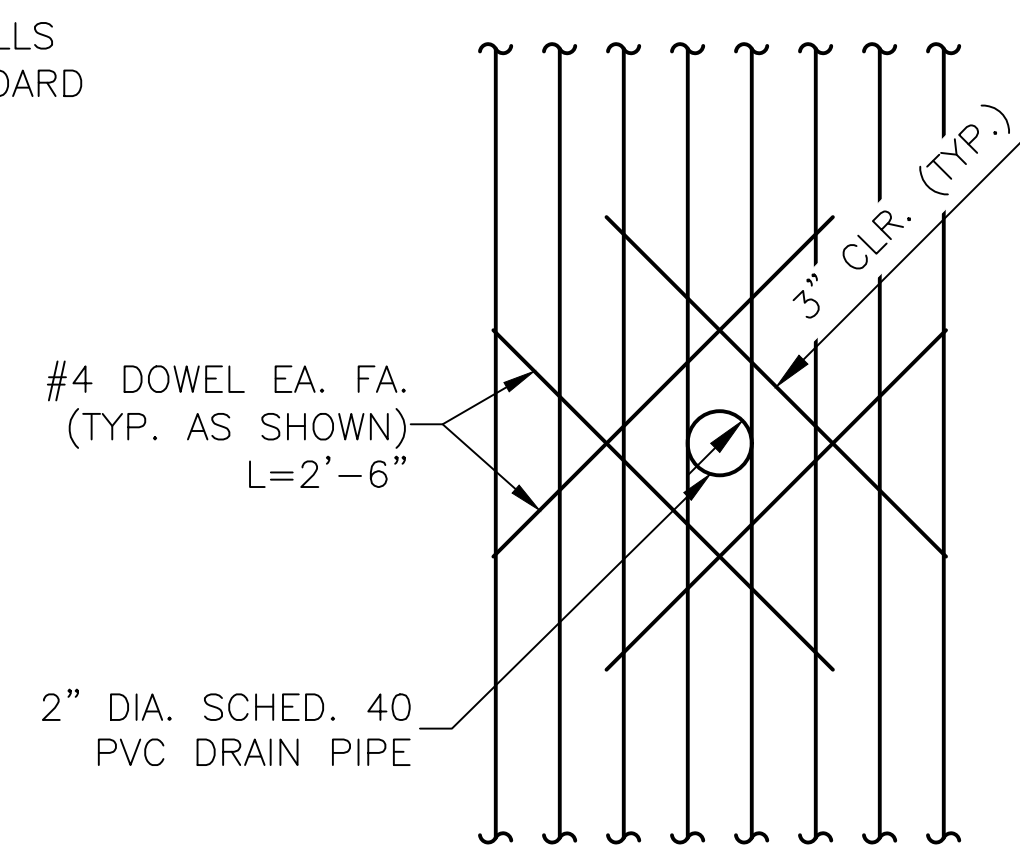


EXPANSION JOINT FOR CHANNEL CONNECTION TO EXISTING STRUCTURES

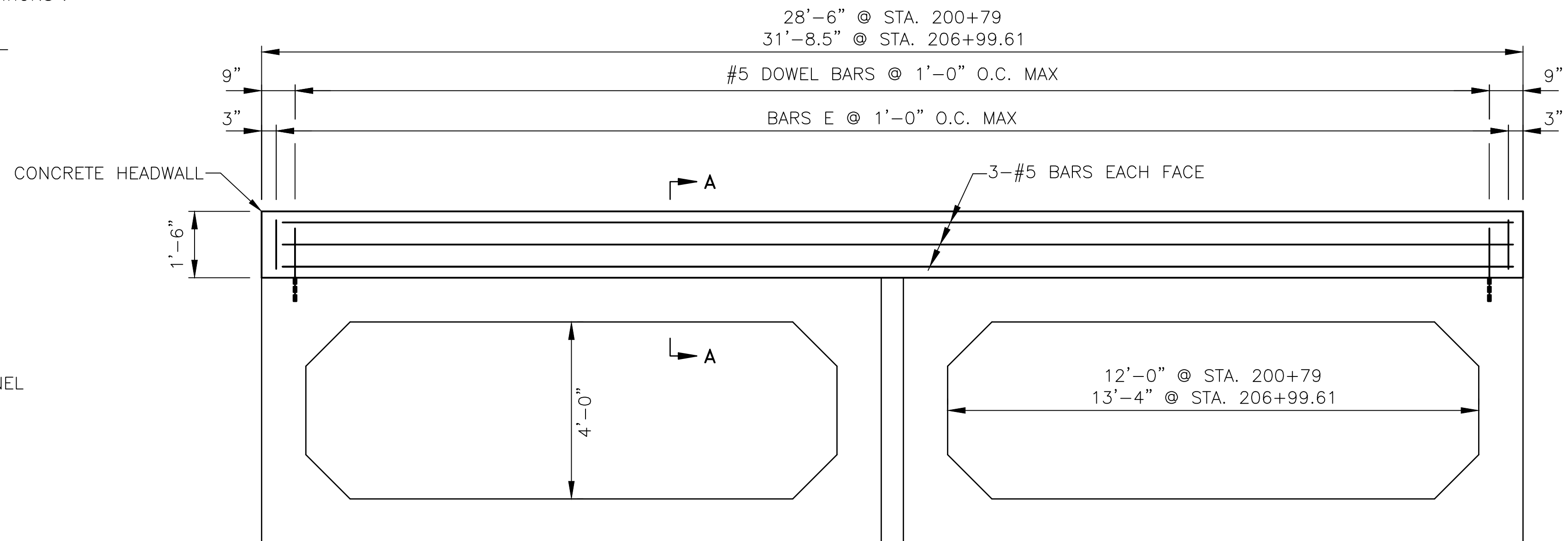
STA. 200+79.00
STA. 206+99.61
STA. 207+40.13



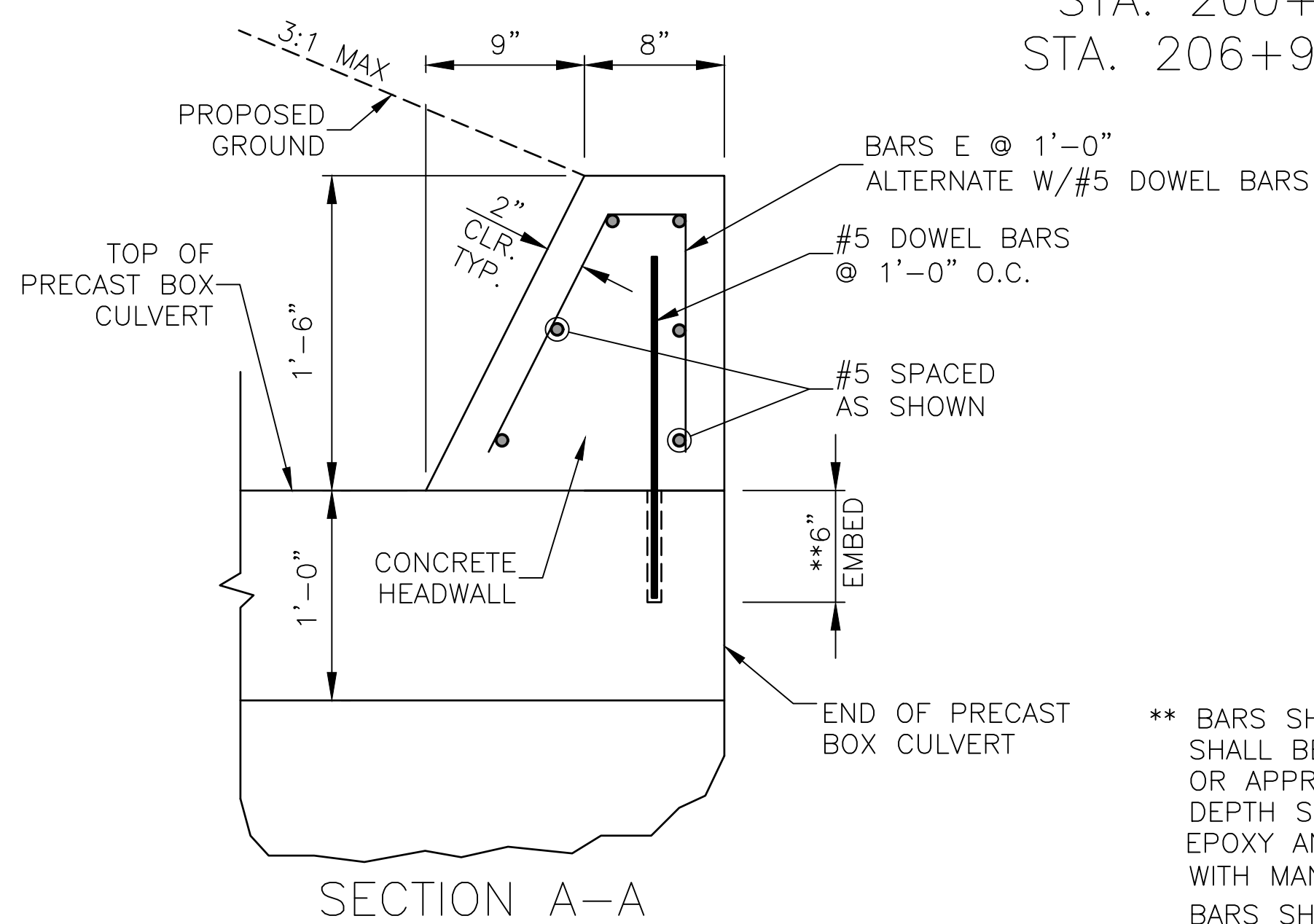
CONTROL JOINT FOR CONCRETE CHANNEL
(USED AT 10' O.C.)



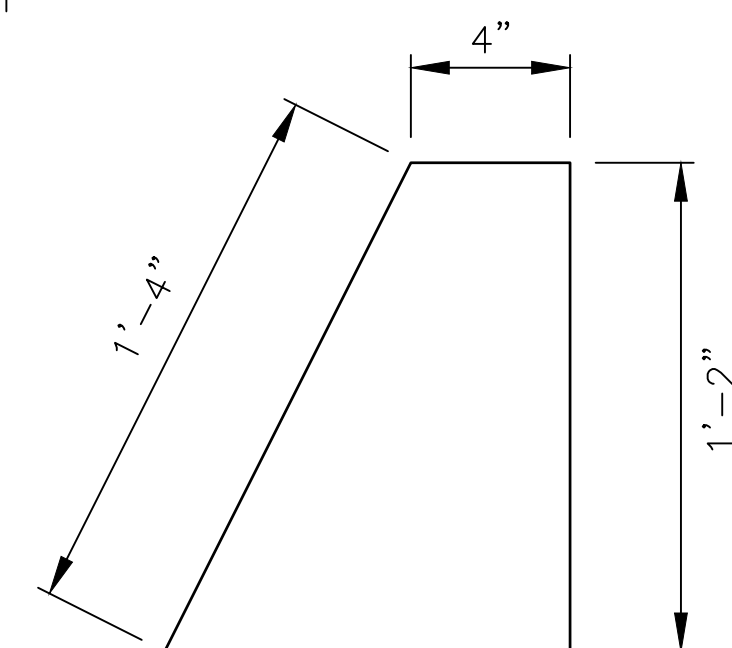
DRAIN PIPE REINFORCING DETAIL FOR CONCRETE CHANNEL



HEADWALL - SECTION VIEW
STA. 200+79
STA. 206+99.61



SECTION A-A



BARS E - #5

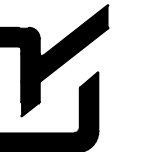
** BARS SHOWN TO BE EMBEDDED INTO PRECAST BOX CULVERT SHALL BE SECURED USING HILTI HIT RE500 EPOXY ANCHOR OR APPROVED EQUAL. ALL BARS SHALL BE EMBEDDED TO DEPTH SHOWN ON THE DETAILS ON THIS SHEET AND EPOXY EPOXY ANCHOR SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. HOLES FOR EMBEDDED BARS SHALL BE DRILLED 1/4" LARGER IN DIAMETER THAN THE BAR.

REVISIONS	DATE

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

SPECIAL DETAILS

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



DRAWN BY
JAW
DESIGNED
WMM
CHECKED
RCC

DATE
12-10-2019
SCALE
N.T.S
PROJECT NO.
03-17-DR-107
SHEET NO.

C16

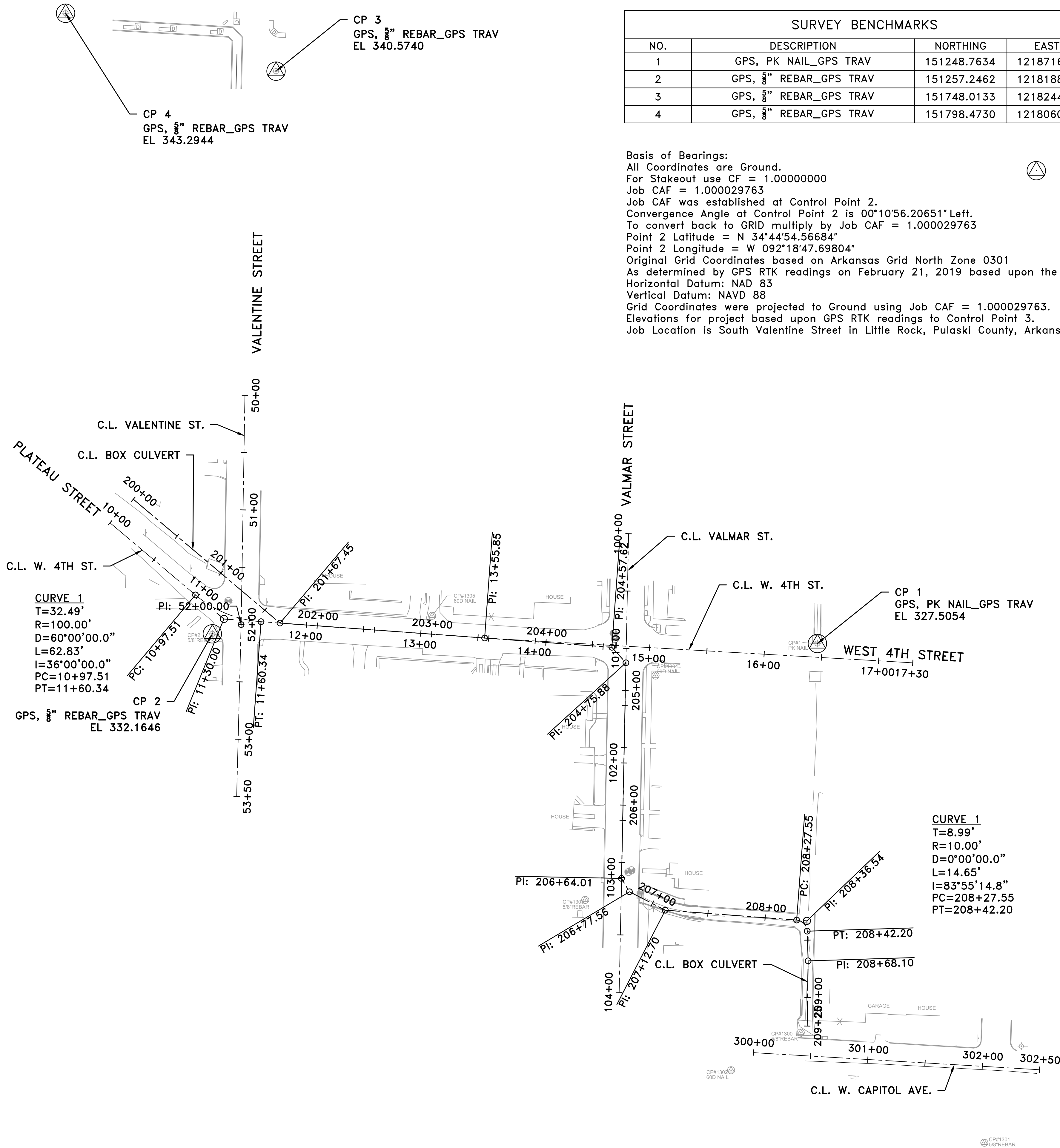
C.L. VALENTINE STREET			
STA.	TYPE	NORTHING	EASTING
50+00.00	BP	151465.2824	1218216.9646
52+00.00	PI	151265.3099	1218213.6510
53+50.00	EP	151115.3605	1218209.7534

C.L. VALMAR STREET			
STA.	TYPE	NORTHING	EASTING
100+00.00	BP	151344.5432	1218551.5530
104+00.00	EP	150944.6272	1218543.3566

C.L. BOX CULVERT COORDINATES			
STA.	TYPE	NORTHING	EASTING
200+00.00	BP	151374.6247	1218119.6053
201+67.45	PI	151266.6012	1218247.5511
204+57.62	PI	151245.4806	1218536.9481
204+75.88	PI	151231.9776	1218549.2459
206+64.01	PI	151043.8851	1218545.3909
206+77.56	PI	151032.2486	1218552.3348
207+12.70	PI	151016.2008	1218583.5952
208+27.55	PC	151007.5550	1218698.1183
208+36.54	PI	151006.8782	1218707.0843
208+42.20	PT	150997.8909	1218707.3608
208+68.10	PI	150972.0034	1218708.1571
209+25	EP	150915.1066	1218707.3197

C.L. WEST 4TH STREET			
STA.	TYPE	NORTHING	EASTING
10+00.00	BP	151354.0364	1218099.2957
10+97.51	PC	151291.1327	1218173.8003
11+30.00	PI	151270.1717	1218198.6270
11+60.34	PT	151267.8067	1218231.0328
13+55.85	PI	151253.5761	1218426.0223
17+29.85	EP	151231.9544	1218799.3967

C.L. WEST CAPITOL AVENUE			
STA.	TYPE	NORTHING	EASTING
300+00.00	BP	150891.9374	1218660.3758
302+50.00	EP	150877.0372	1218909.9314



SURVEY BENCHMARKS				
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	GPS, PK NAIL_GPS TRAV	151248.7634	1218716.2452	327.5054
2	GPS, 5/8" REBAR_GPS TRAV	151257.2462	1218188.5595	332.1646
3	GPS, 5/8" REBAR_GPS TRAV	151748.0133	1218244.0700	340.5740
4	GPS, 5/8" REBAR_GPS TRAV	151798.4730	1218060.5584	343.2944

Basis of Bearings:
All Coordinates are Ground.
For Stakeout use CF = 1.00000000
Job CAF = 1.000029763
Job CAF was established at Control Point 2.
Convergence Angle at Control Point 2 is 00°10'56.20651" Left.
To convert back to GRID multiply by Job CAF = 1.000029763
Point 2 Latitude = N 34°44'54.56684"
Point 2 Longitude = W 092°18'47.69804"
Original Grid Coordinates based on Arkansas Grid North Zone 0301
As determined by GPS RTK readings on February 21, 2019 based upon the PAGIS Dial-Up System.
Horizontal Datum: NAD 83
Vertical Datum: NAVD 88
Grid Coordinates were projected to Ground using Job CAF = 1.000029763.
Elevations for project based upon GPS RTK readings to Control Point 3.
Job Location is South Valentine Street in Little Rock, Pulaski County, Arkansas

CONTROL POINT

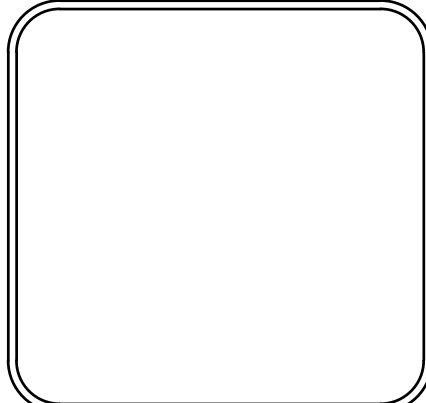
Basis of Bearing: PAGIS Virtual R
State Plane North reduced to grou.
point No. 2, Geoid 12B

REVISIONS	DATE

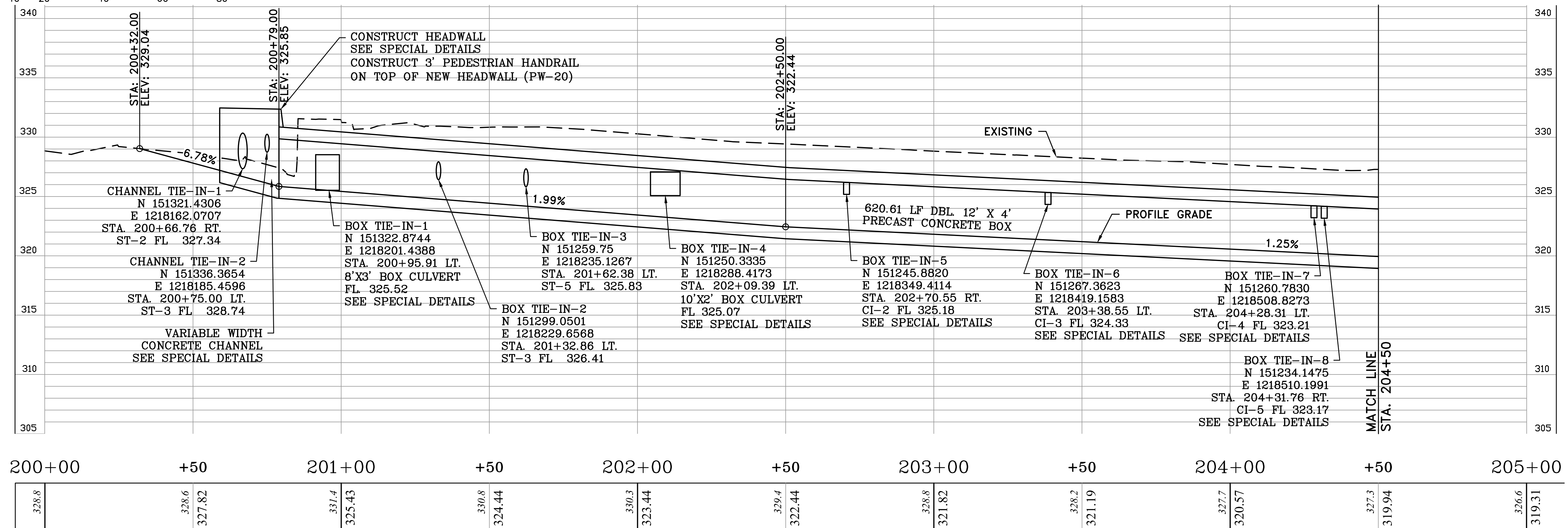
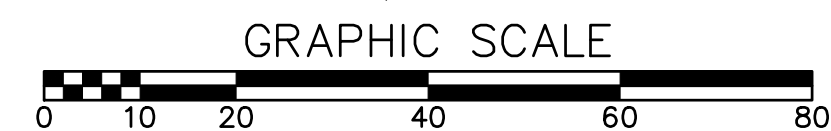
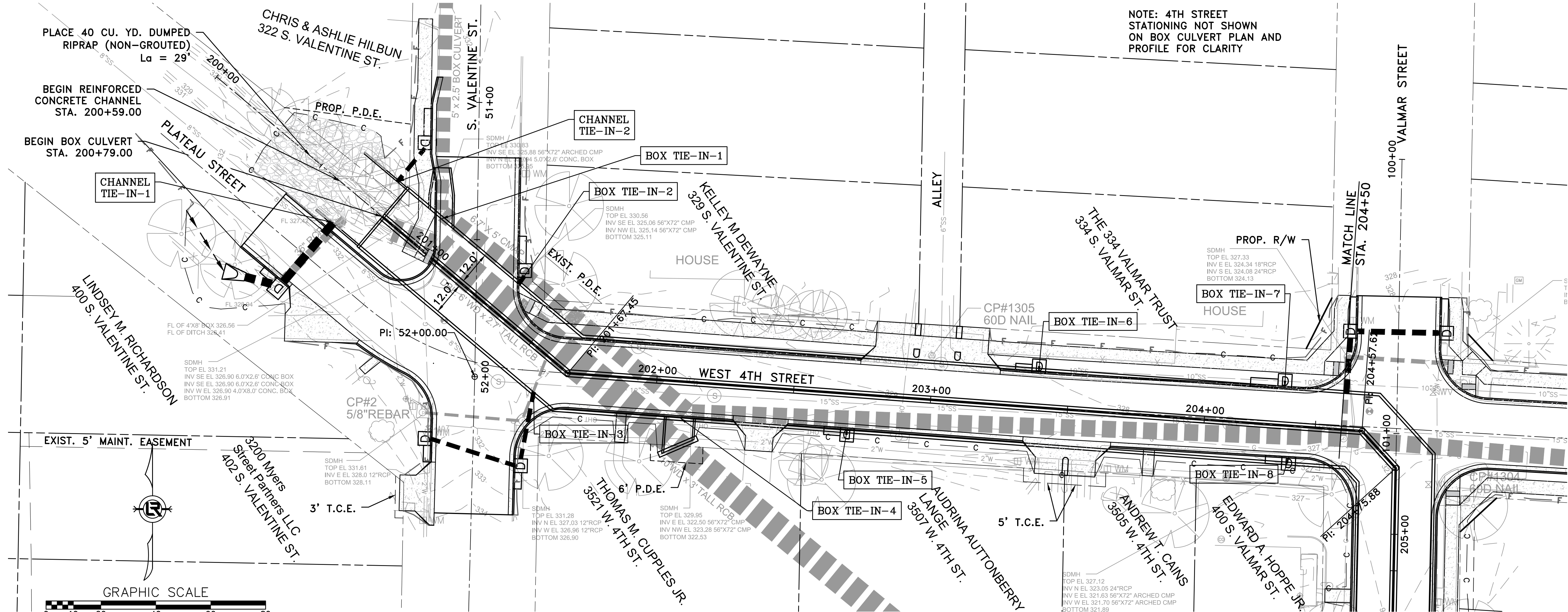
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

FIELD TIES / LAYOUT

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



DRAWN BY
MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=50'
V: 1"=50'
PROJECT NO.
03-17-DR-107
SHEET NO.
C17



REVISIONS DATE

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

BOX CULVERT 1
PLAN & PROFILE - STA 200+00 TO STA 204+50

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201

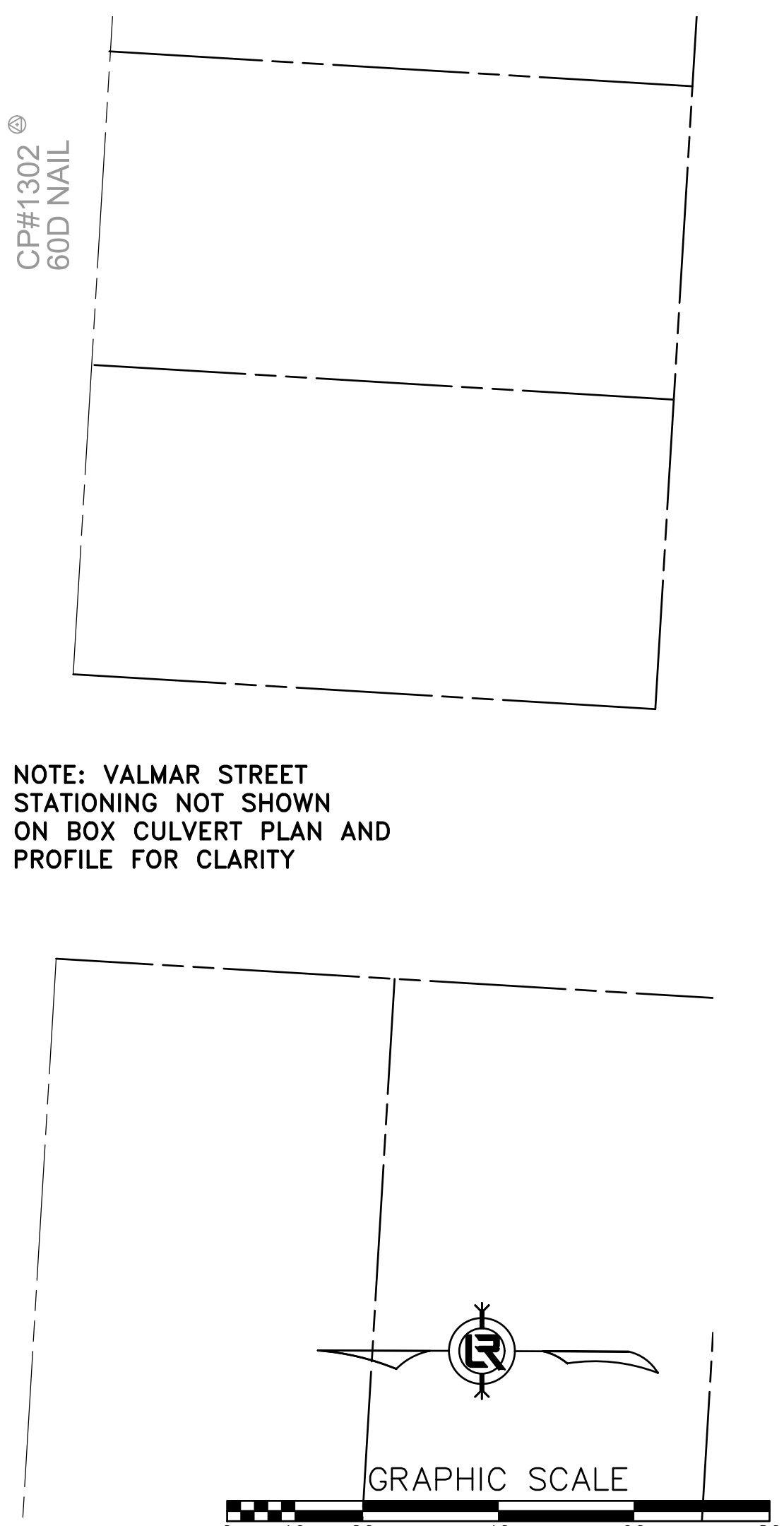
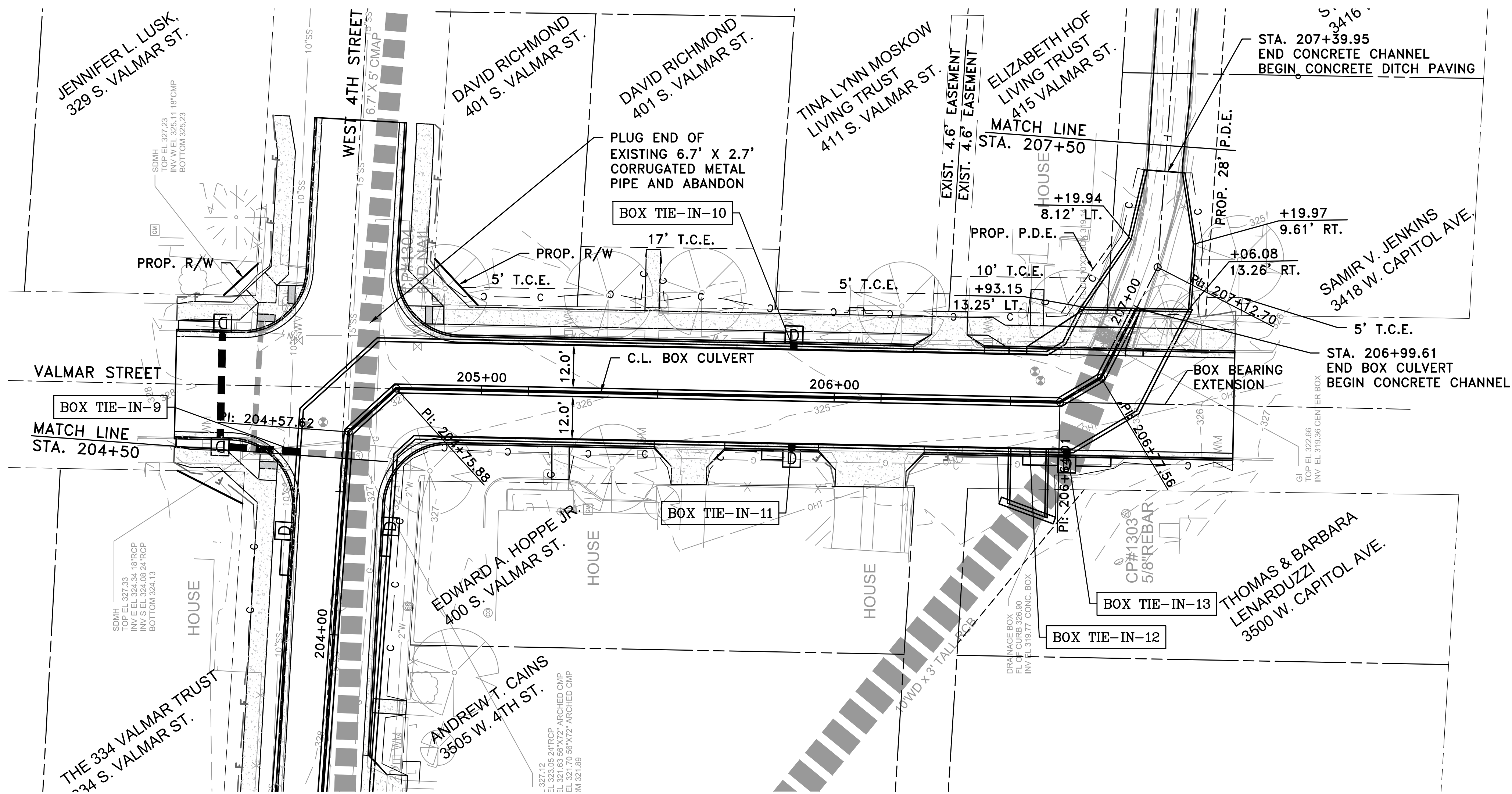
DRAWN BY
MJM
DESIGNED
RCC
CHECKED
RCC

DATE
12-10-2019

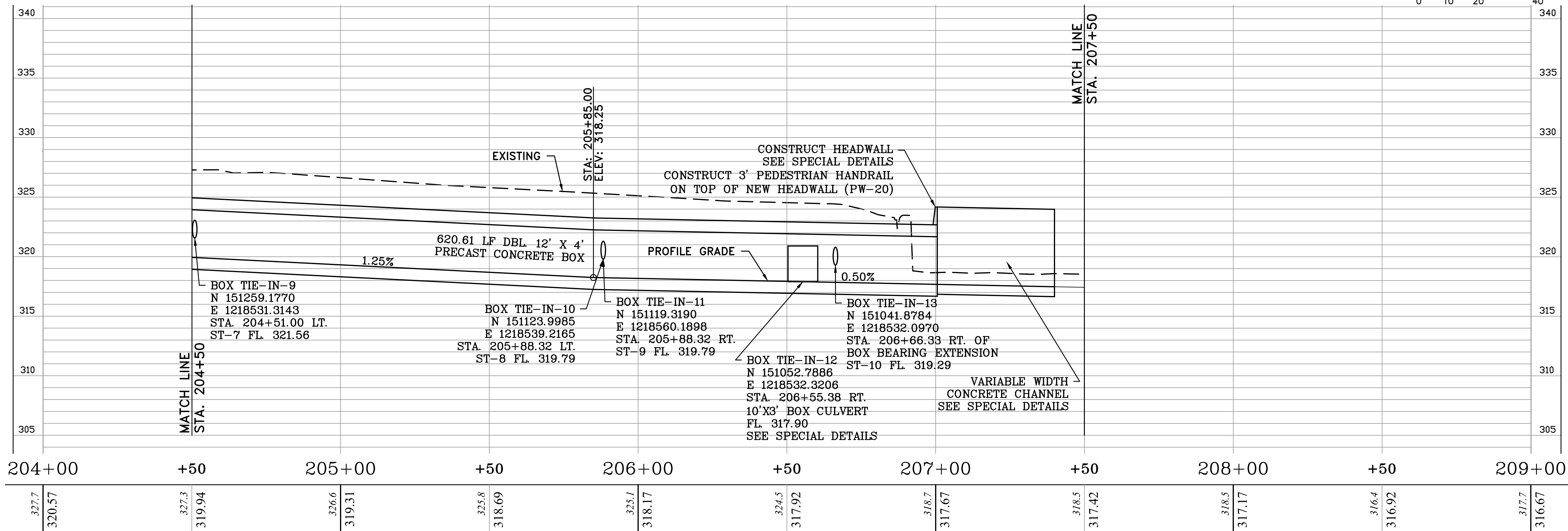
SCALE
H: 1"=20'
V: 1"=5'

PROJECT NO.
03-17-DR-107

SHEET NO.
C18



NOTE: VALMAR STREET
STATIONING NOT SHOWN
ON BOX CULVERT PLAN AND
PROFILE FOR CLARITY



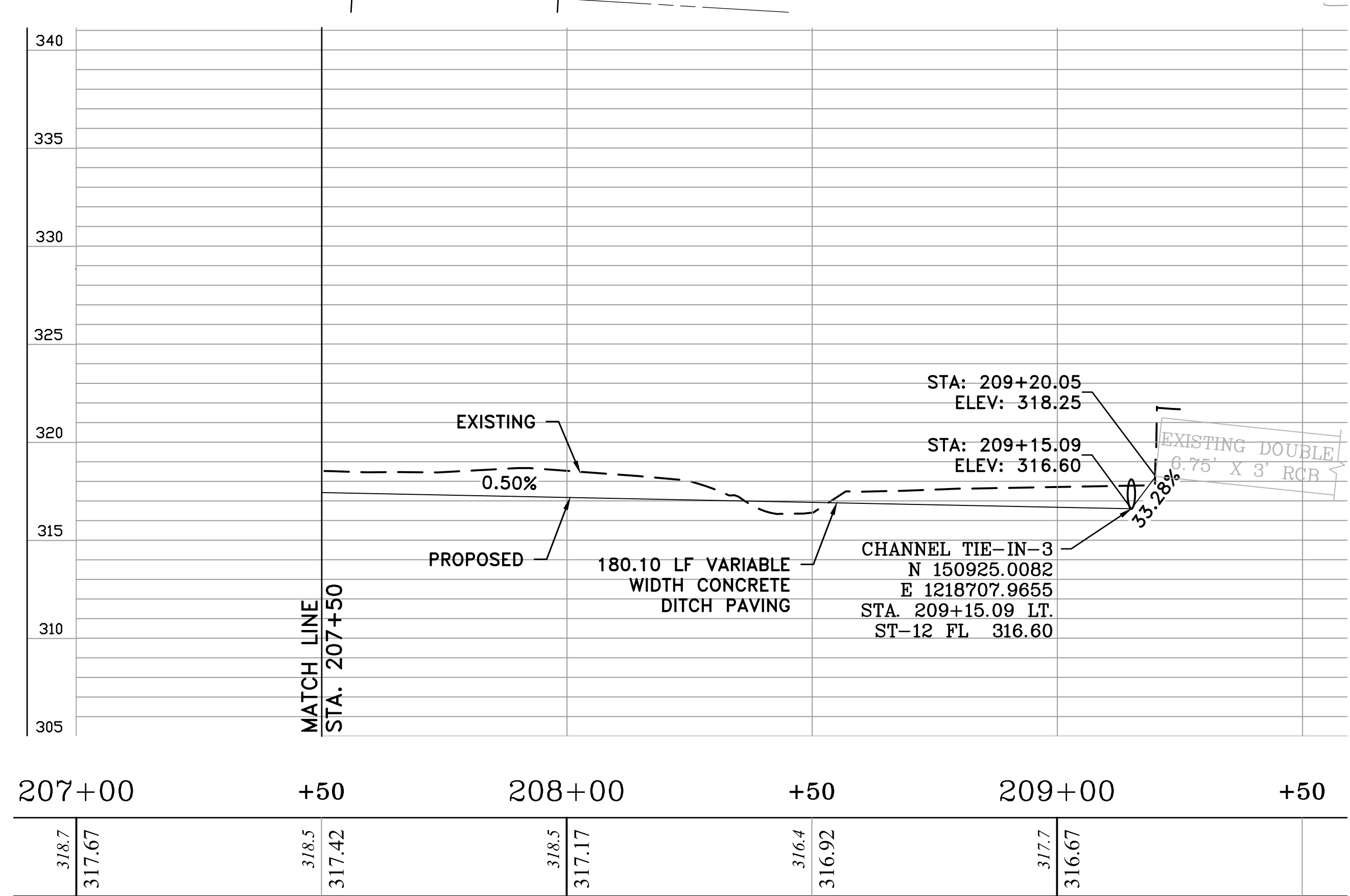
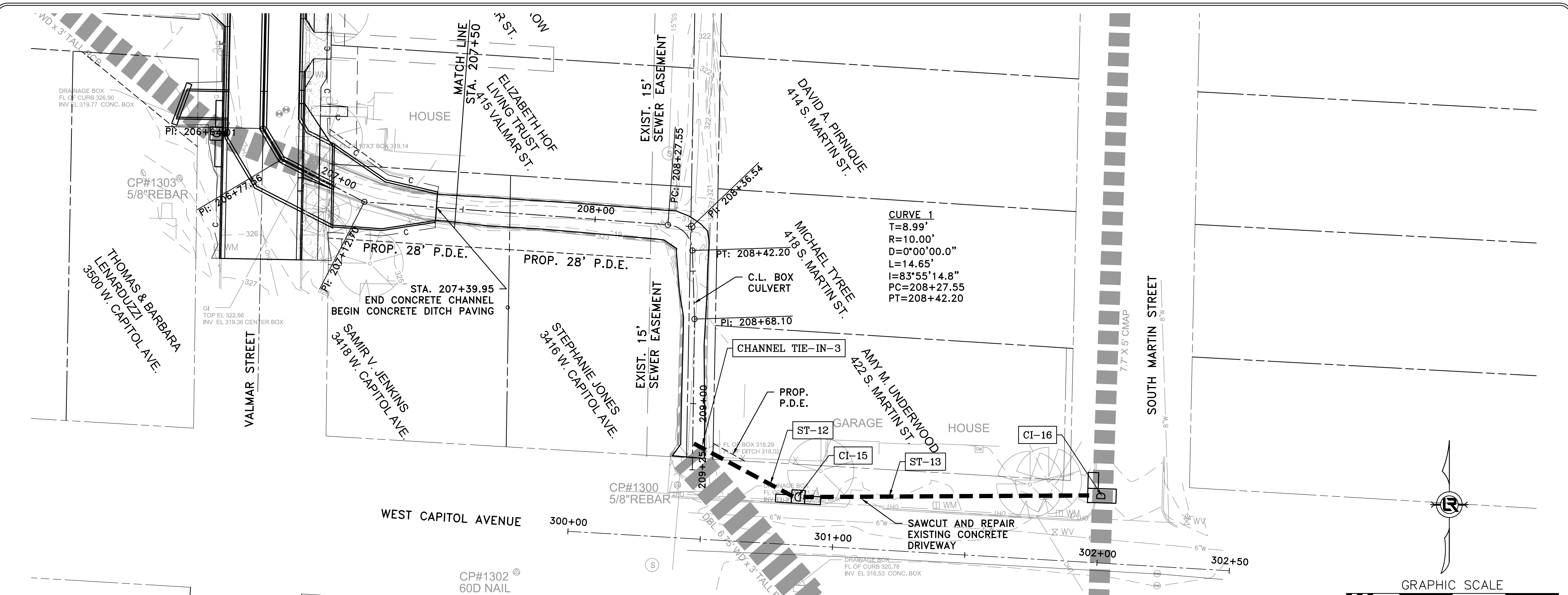
ALIGNMENT - BOX CULVERT

REVISIONS	DATE

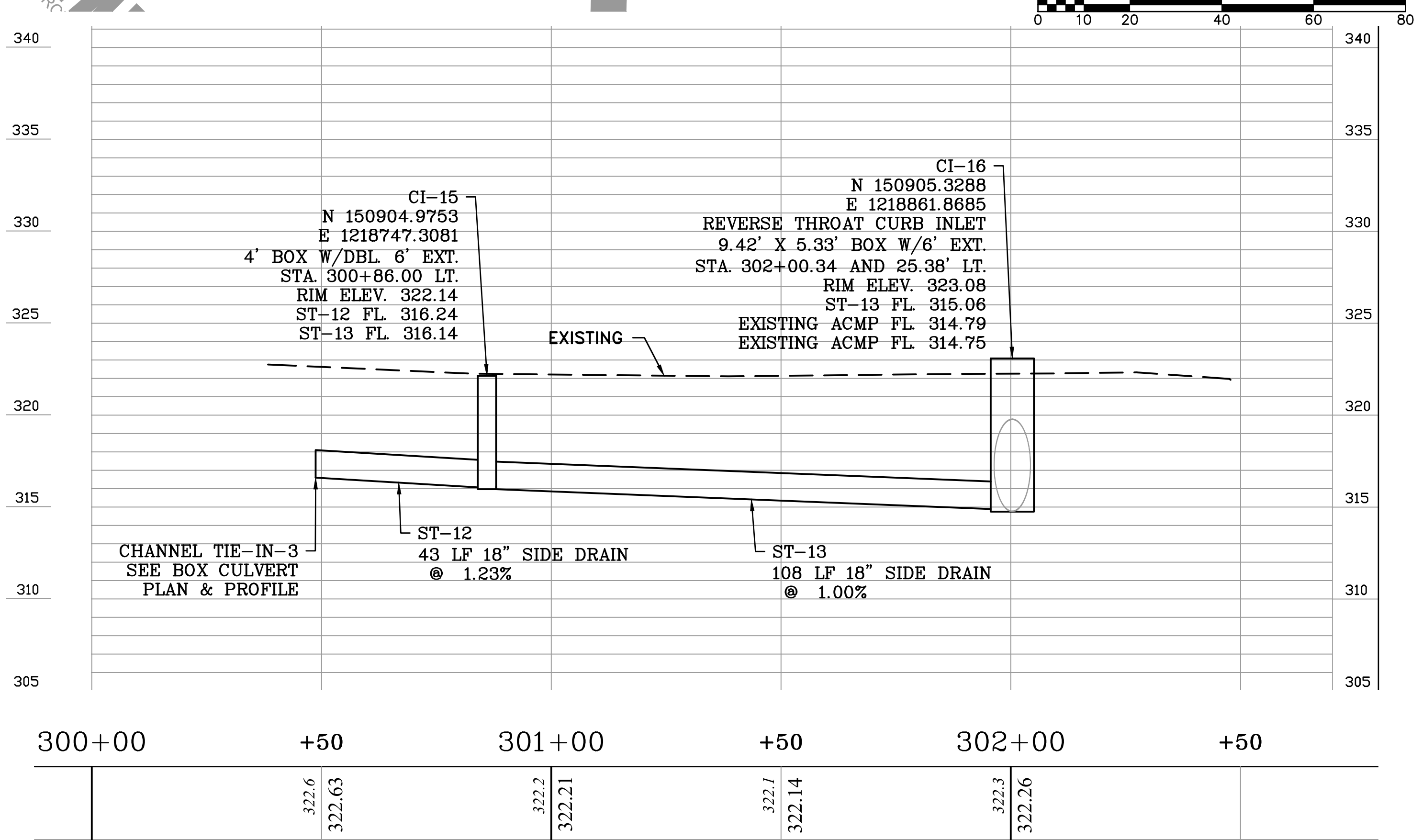
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS
BOX CULVERT 2
PLAN & PROFILE - STA 204+50 TO STA 207+50

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

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MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C19



ALIGNMENT - BOX CULVERT



ALIGNMENT - CAPITOL AVE

REVISIONS	DATE

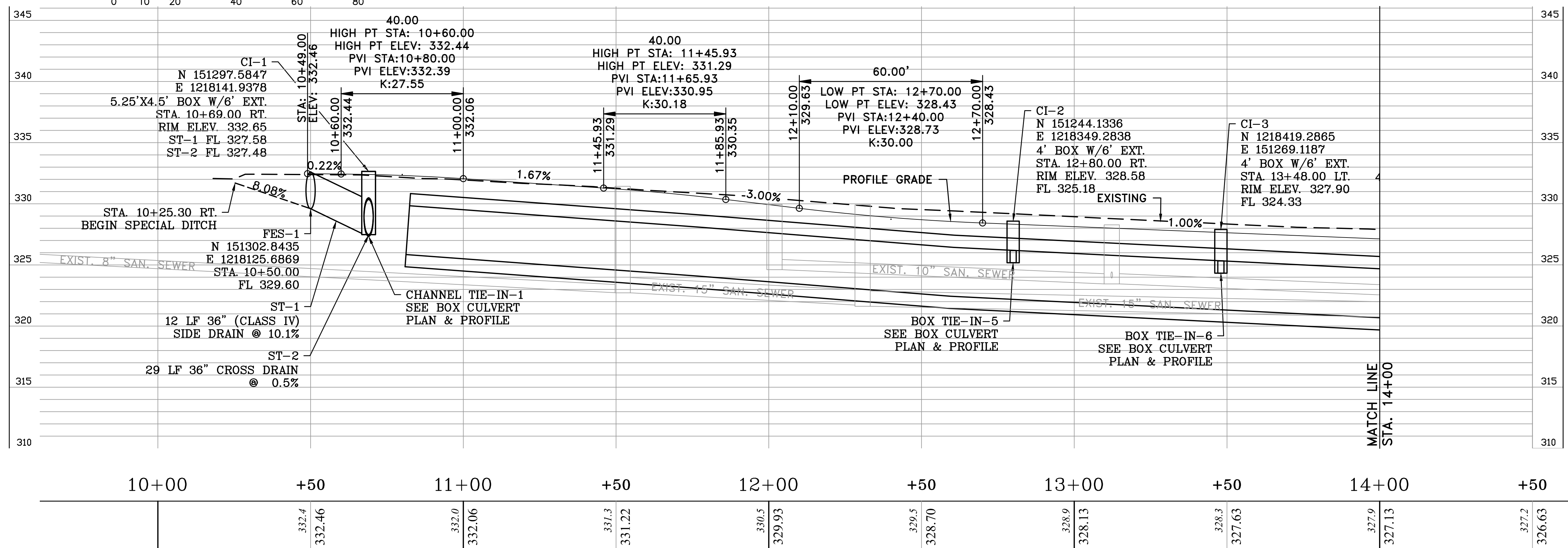
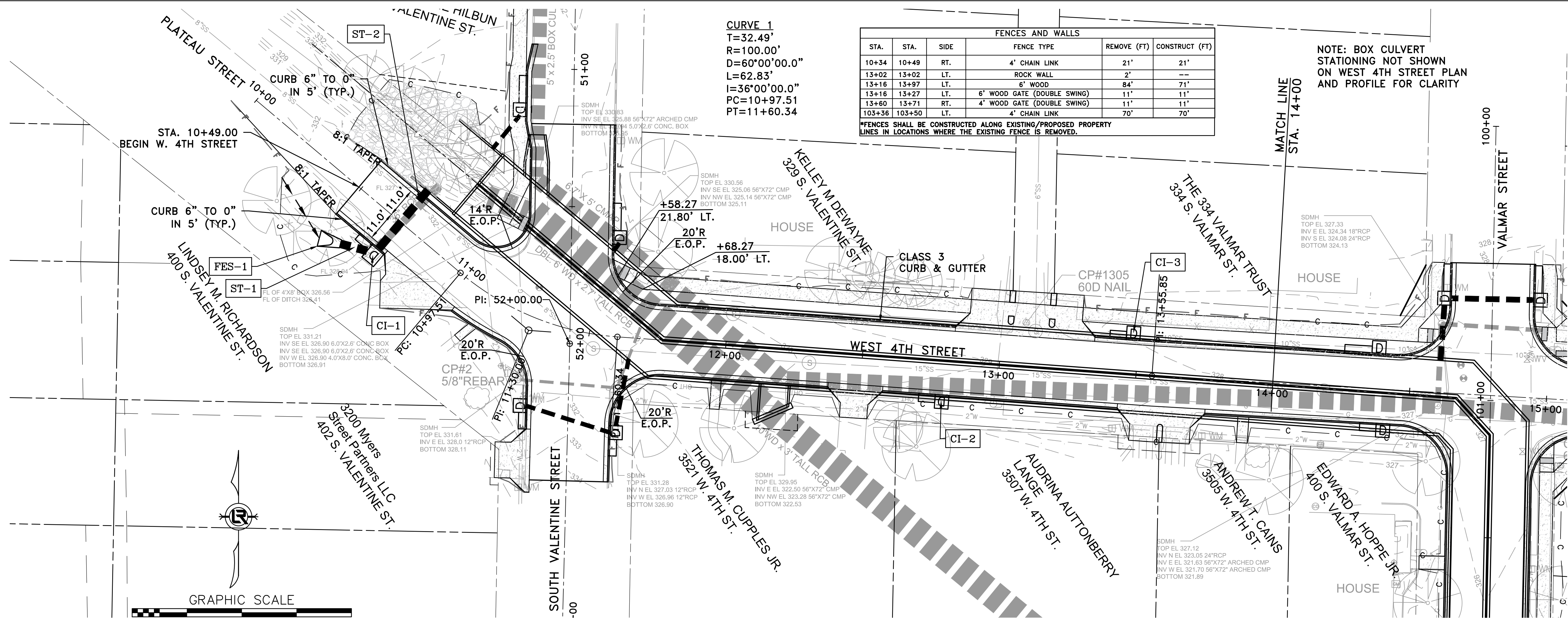
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

BOX CULVERT 3

PLAN & PROFILE - STA 207+50 TO STA 209+27

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

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MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C20



ALIGNMENT - W 4TH STREET

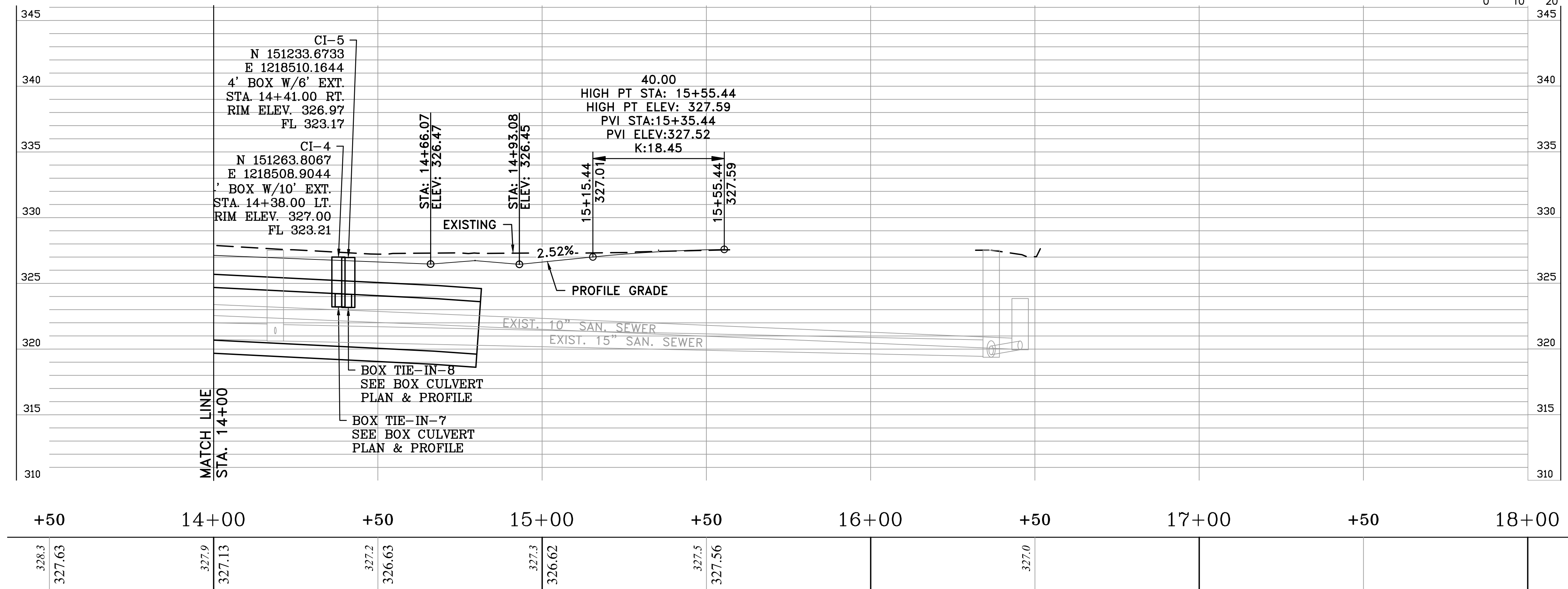
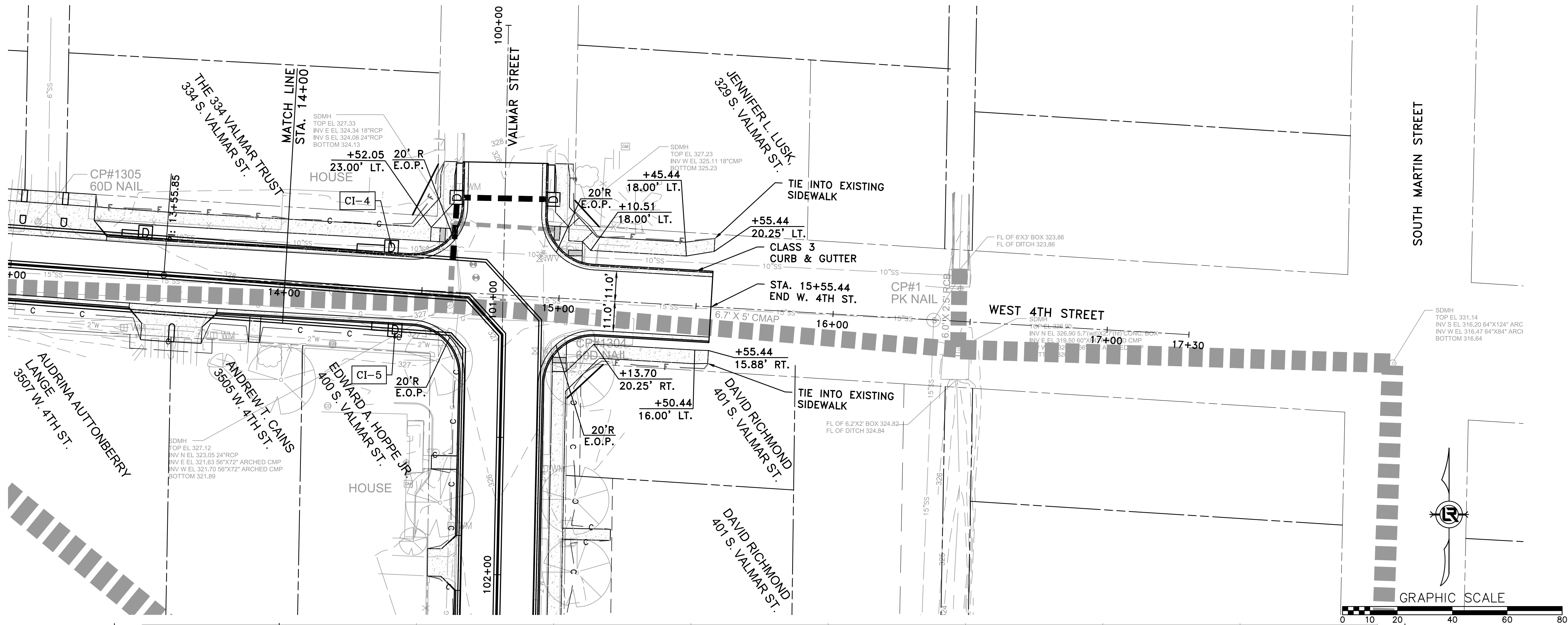
REVISIONS	DATE

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

WEST 4TH STREET 1
PLAN & PROFILE - STA 10+00 TO STA 14+00

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

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MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C21



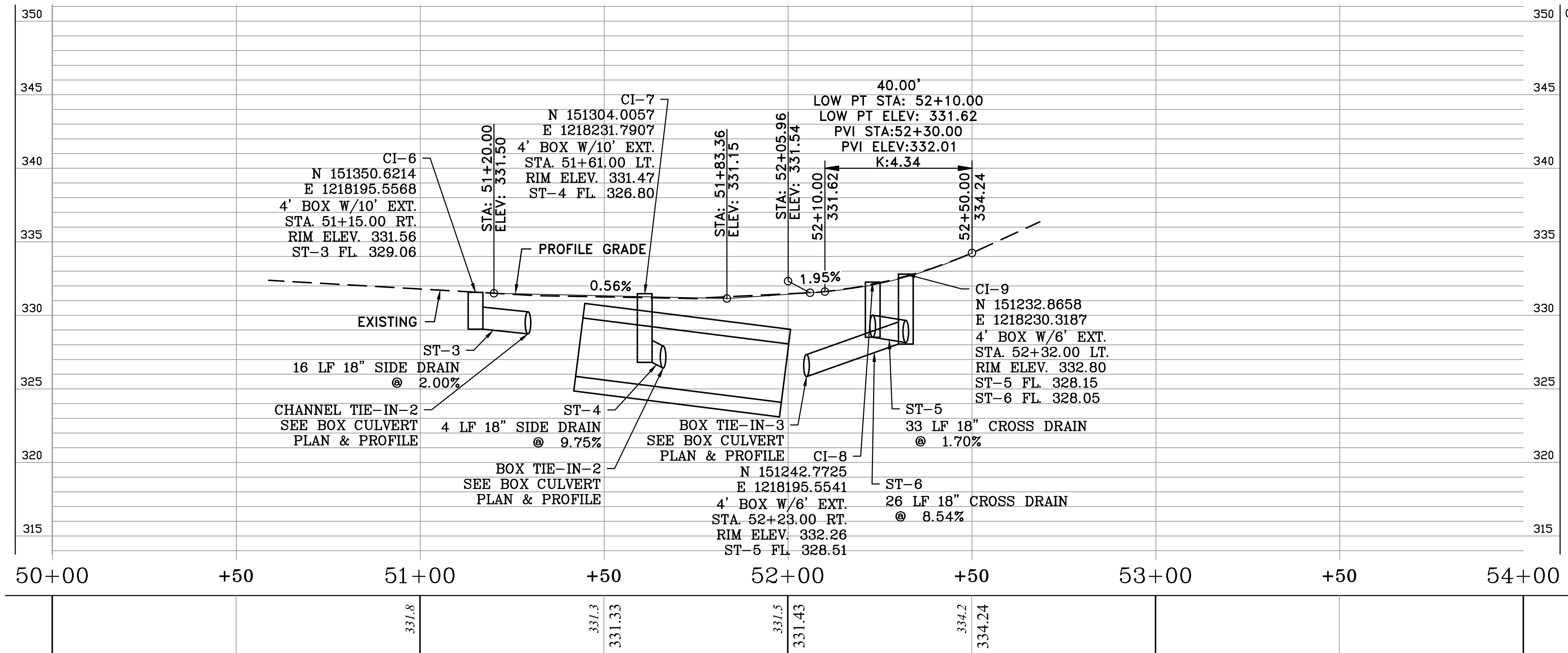
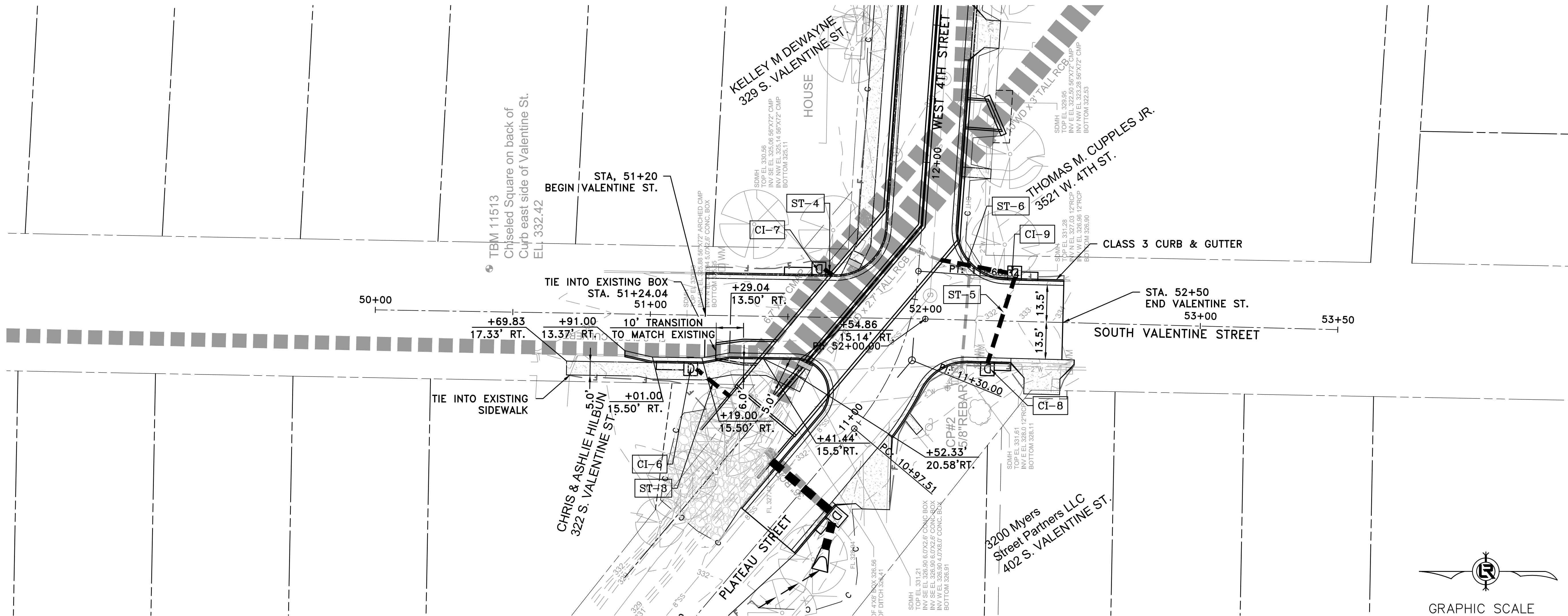
ALIGNMENT - W 4TH STREET

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS
PLAN & PROFILE - STA 14+00 TO STA 17+32

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

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MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C22



ALIGNMENT - VALENTINE STREET

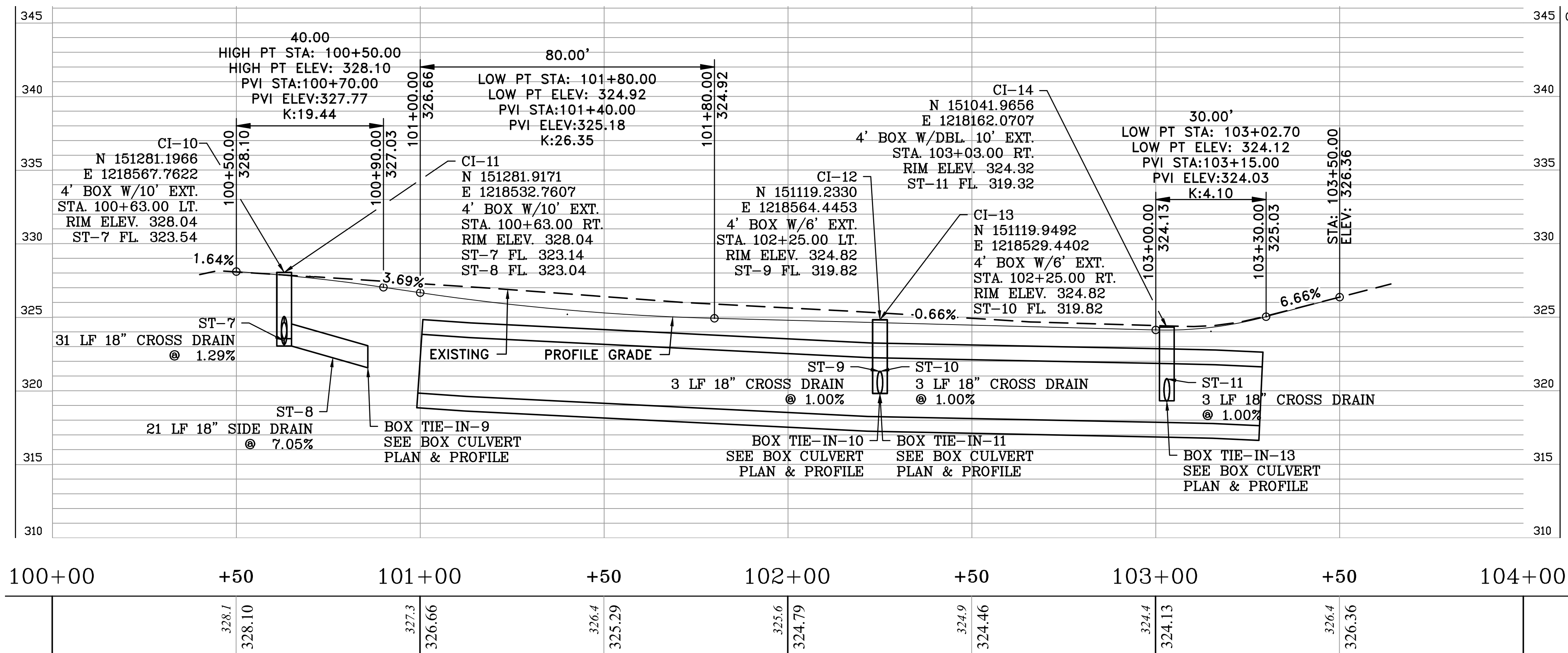
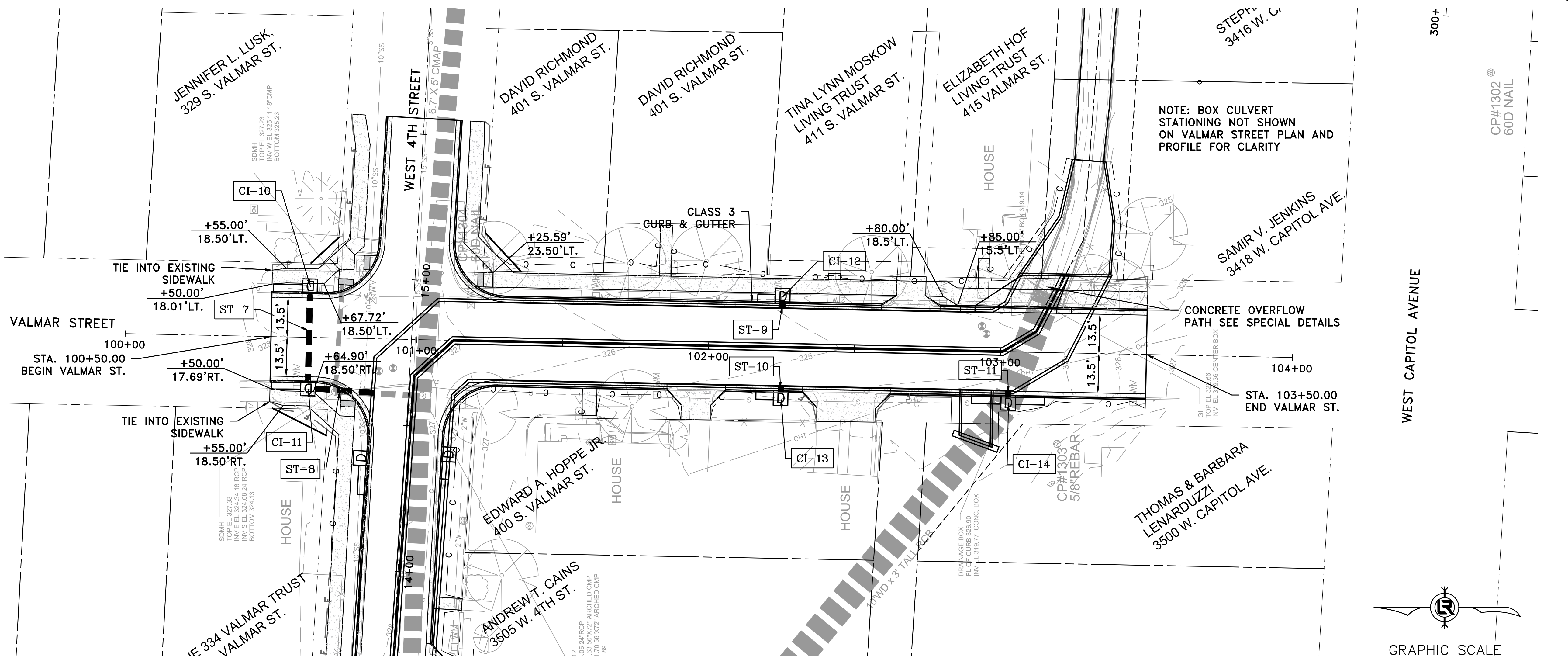
REVISIONS	DATE

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

SOUTH VALENTINE STREET
PLAN & PROFILE - STA 50+00 TO STA 53+50

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

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MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C23



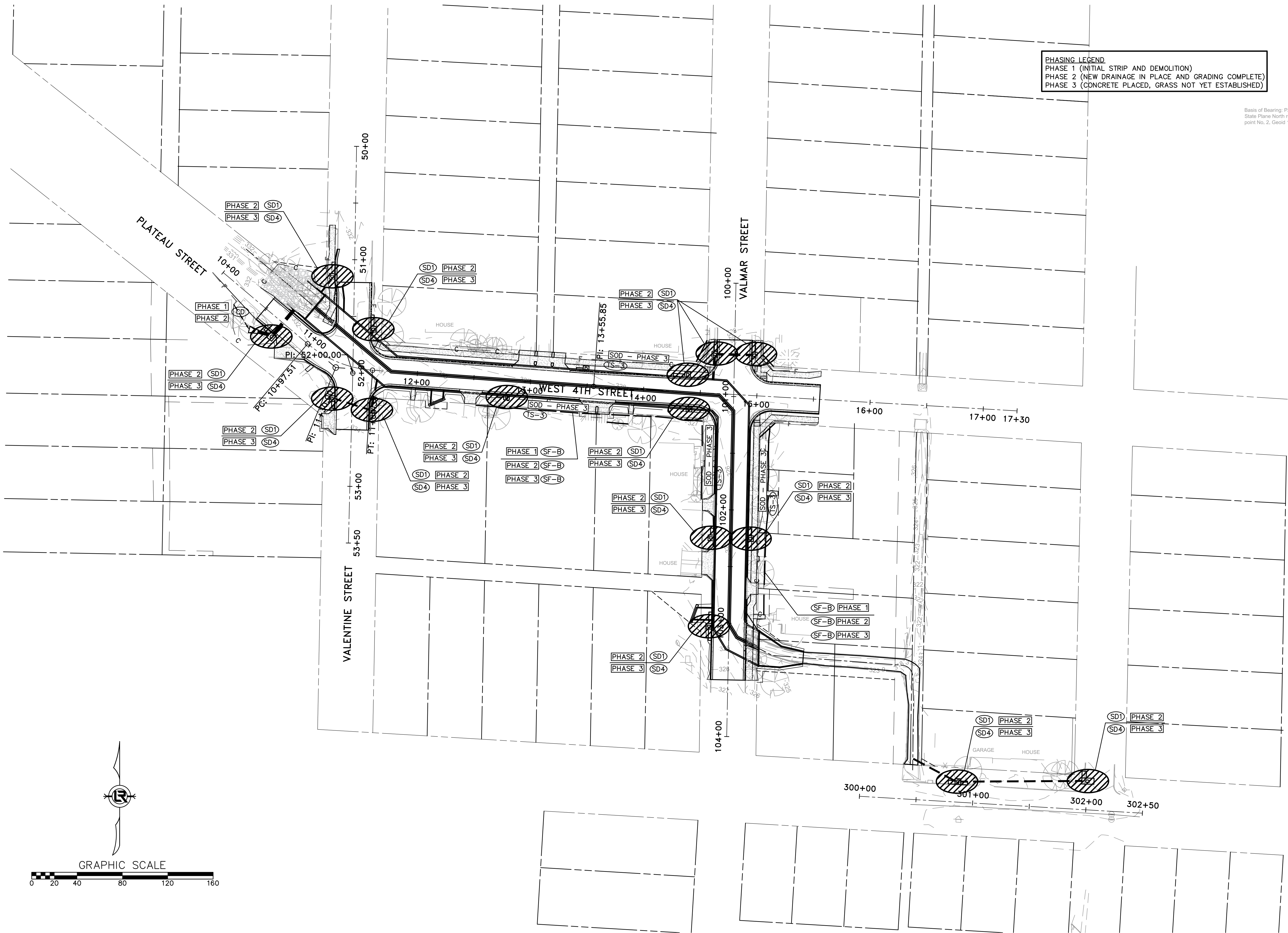
ALIGNMENT - VALMAR STREET

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS
PLAN & PROFILE - STA 100+00 TO STA 104+00

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

DRAWN BY
MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C24



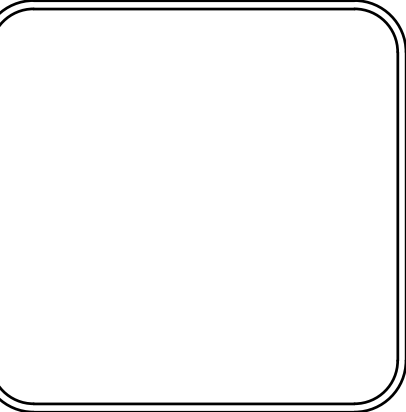
PHASING LEGEND
PHASE 1 (INITIAL STRIP AND DEMOLITION)
PHASE 2 (NEW DRAINAGE IN PLACE AND GRADING COMPLETE)
PHASE 3 (CONCRETE PLACED, GRASS NOT YET ESTABLISHED)

Basis of Bearing: PAGIS Vint
State Plane North reduced to
point No. 2, Geoid 12B

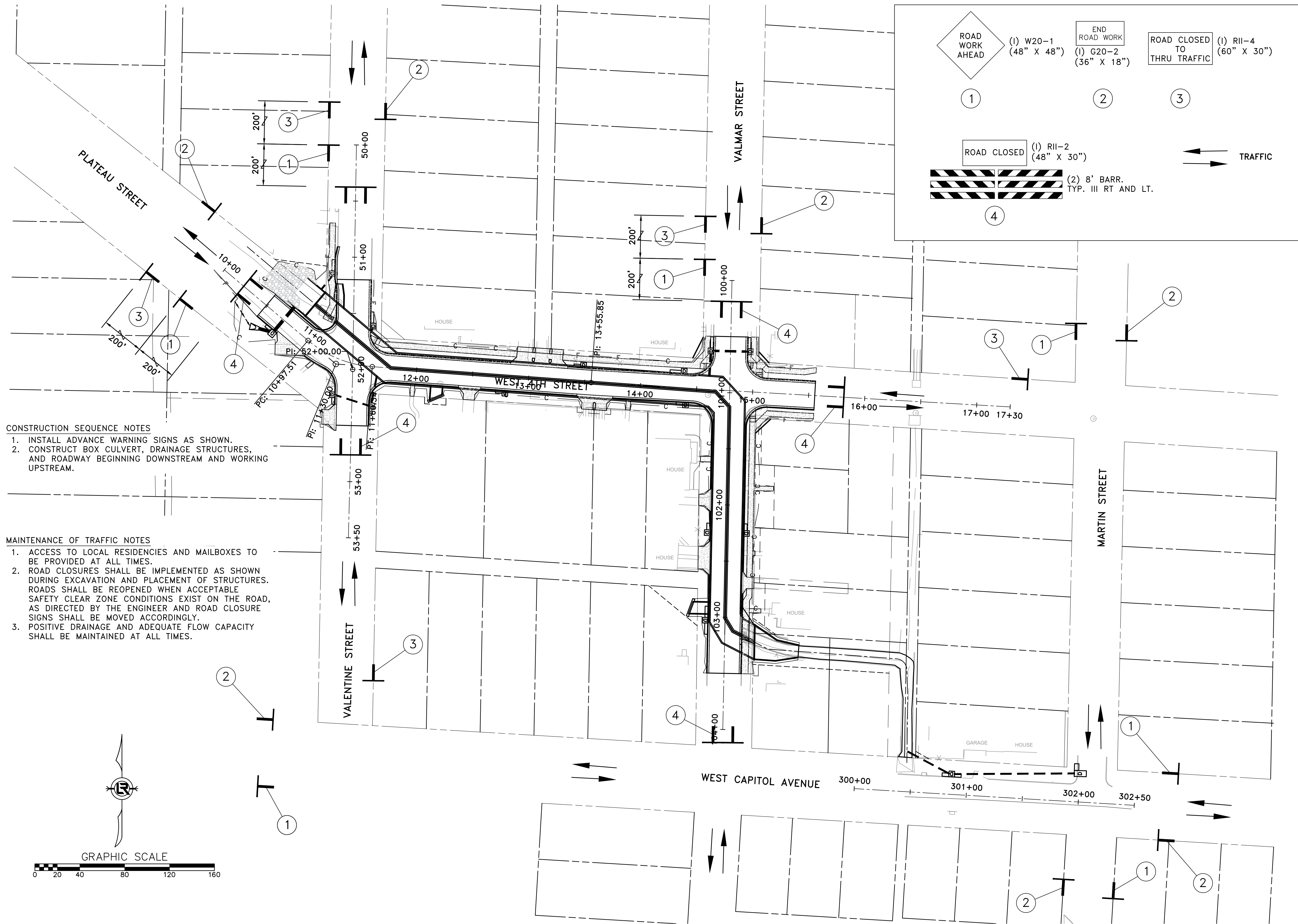
REVISIONS	DATE

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

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

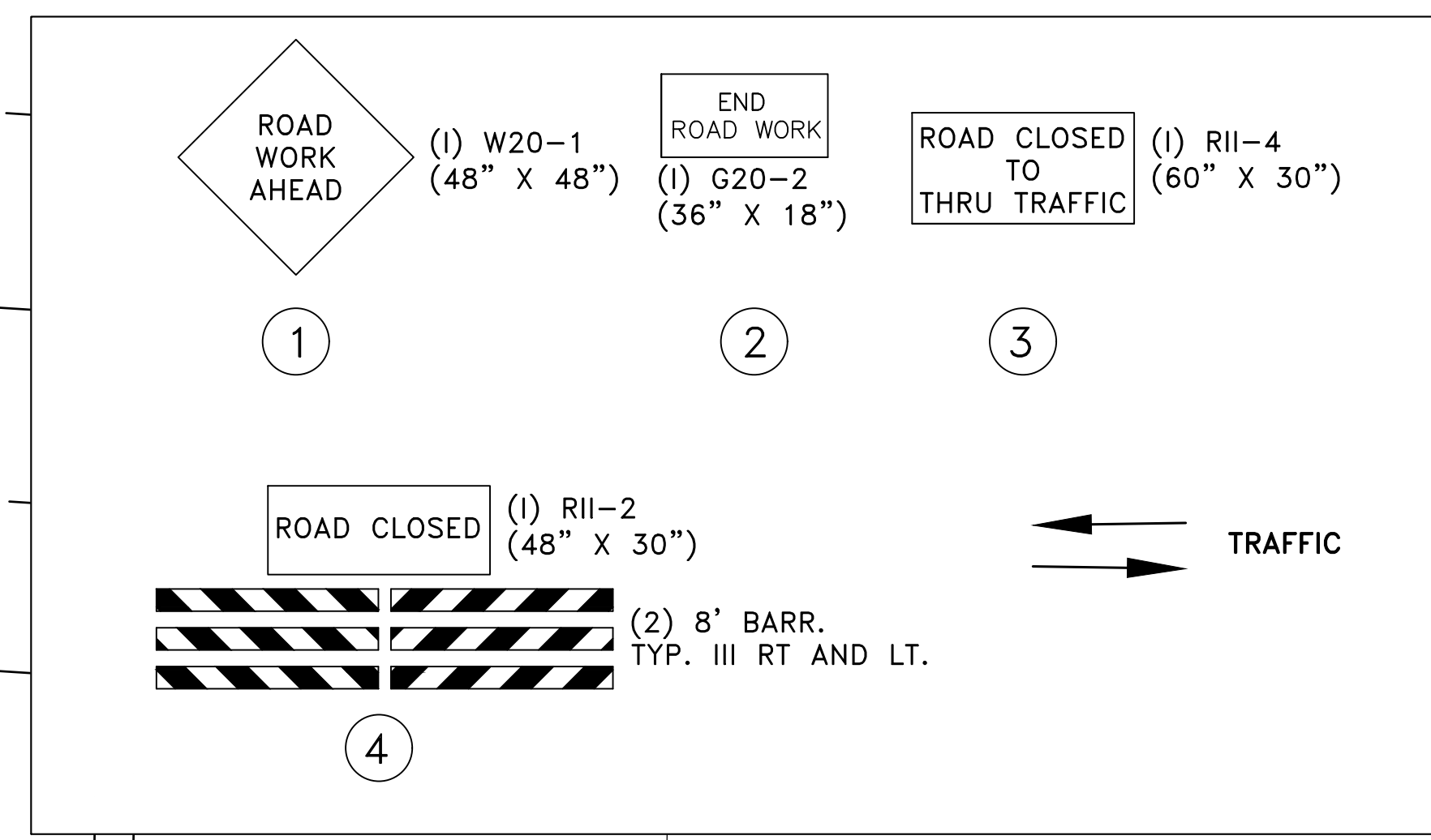


DRAWN BY
MJM
DESIGNED
MJM
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=40'
V: 1"=40'
PROJECT NO.
03-17-DR-107
SHEET NO.
C25



- CONSTRUCTION SEQUENCE NOTES
1. INSTALL ADVANCE WARNING SIGNS AS SHOWN.
 2. CONSTRUCT BOX CULVERT, DRAINAGE STRUCTURES, AND ROADWAY BEGINNING DOWNSTREAM AND WORKING UPSTREAM.

- MAINTENANCE OF TRAFFIC NOTES
1. ACCESS TO LOCAL RESIDENCIES AND MAILBOXES TO BE PROVIDED AT ALL TIMES.
 2. ROAD CLOSURES SHALL BE IMPLEMENTED AS SHOWN DURING EXCAVATION AND PLACEMENT OF STRUCTURES. ROADS SHALL BE REOPENED WHEN ACCEPTABLE SAFETY CLEAR ZONE CONDITIONS EXIST ON THE ROAD, AS DIRECTED BY THE ENGINEER AND ROAD CLOSURE SIGNS SHALL BE MOVED ACCORDINGLY.
 3. POSITIVE DRAINAGE AND ADEQUATE FLOW CAPACITY SHALL BE MAINTAINED AT ALL TIMES.

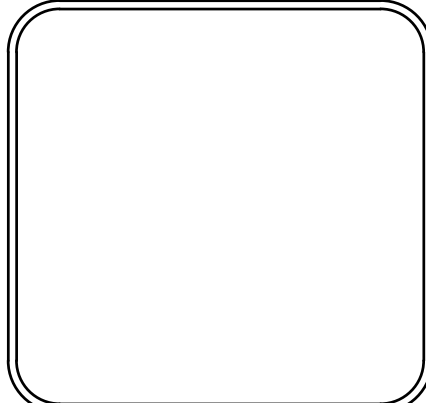


REVISIONS	DATE

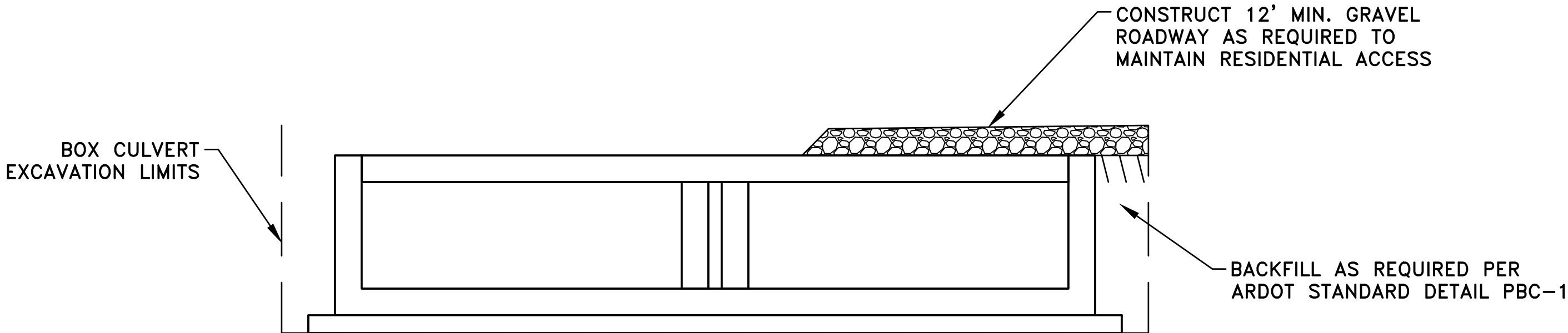
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

MAINTENANCE OF TRAFFIC

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

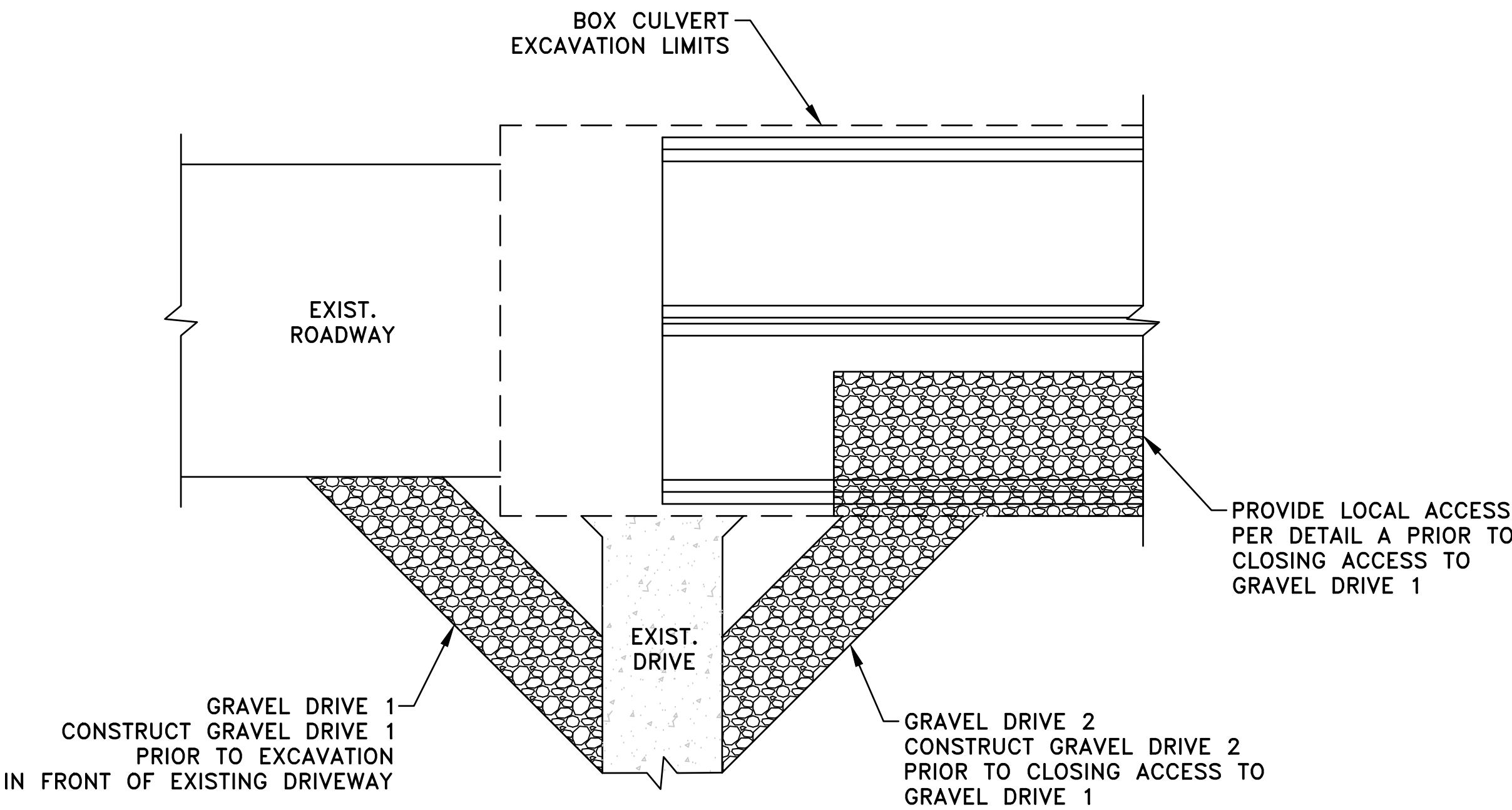


DRAWN BY MJM
DESIGNED MJM
CHECKED RCC
DATE 12-10-2019
SCALE H: 1"=40' V: 1"=40'
PROJECT NO. 03-17-DR-107
SHEET NO. C26



DETAIL A

NOTE:
AGGREGATE USED FOR MAINTENANCE OF TRAFFIC AND NOT
USED WITHIN THE PERMANENT ROADWAY BASE OR BOX
CULVERT SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP
SUM PRICE BID FOR MAINTENANCE OF TRAFFIC.



TYPICAL MAINTENANCE OF
RESIDENTIAL ACCESS DETAIL

REVISIONS	DATE

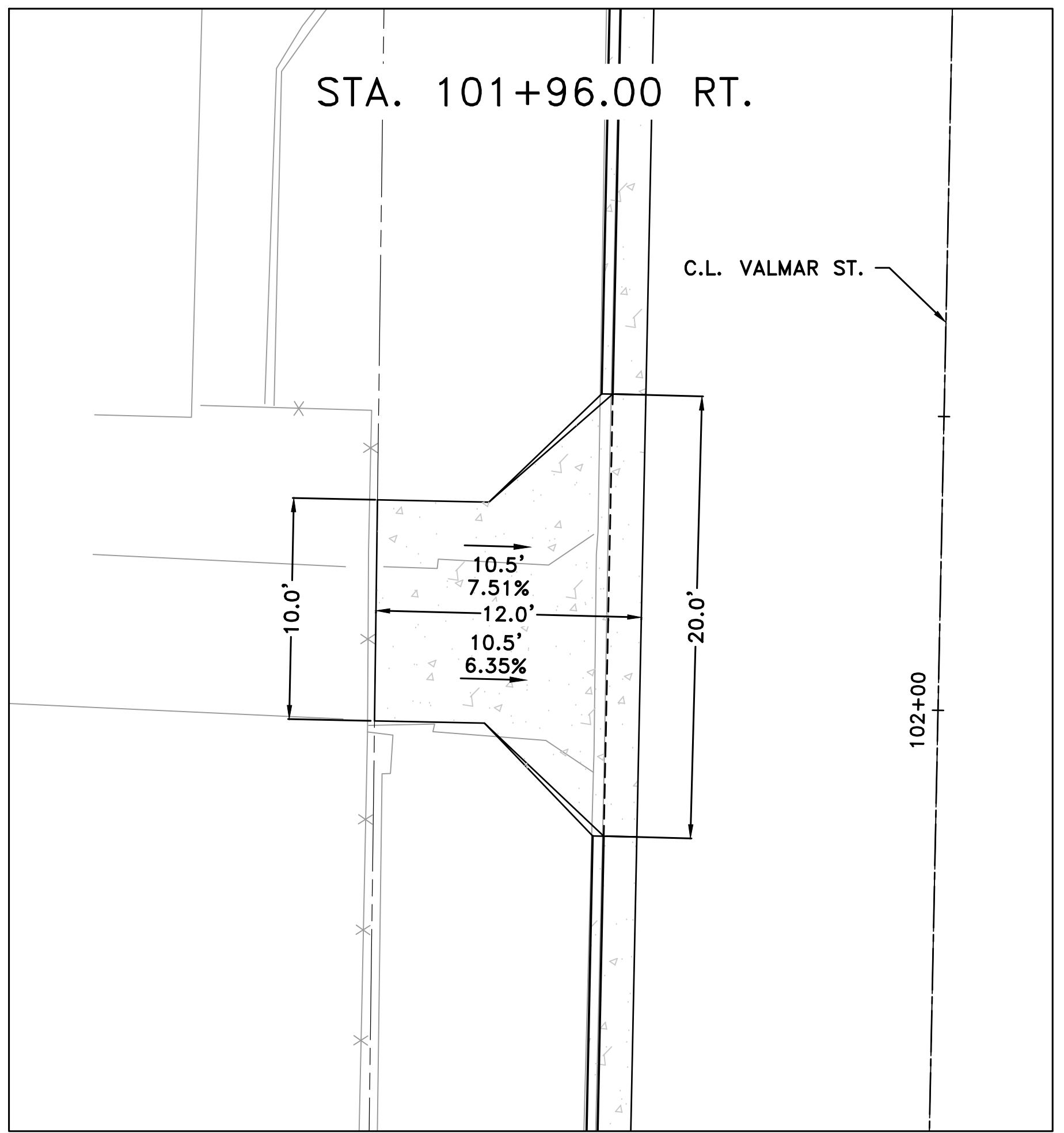
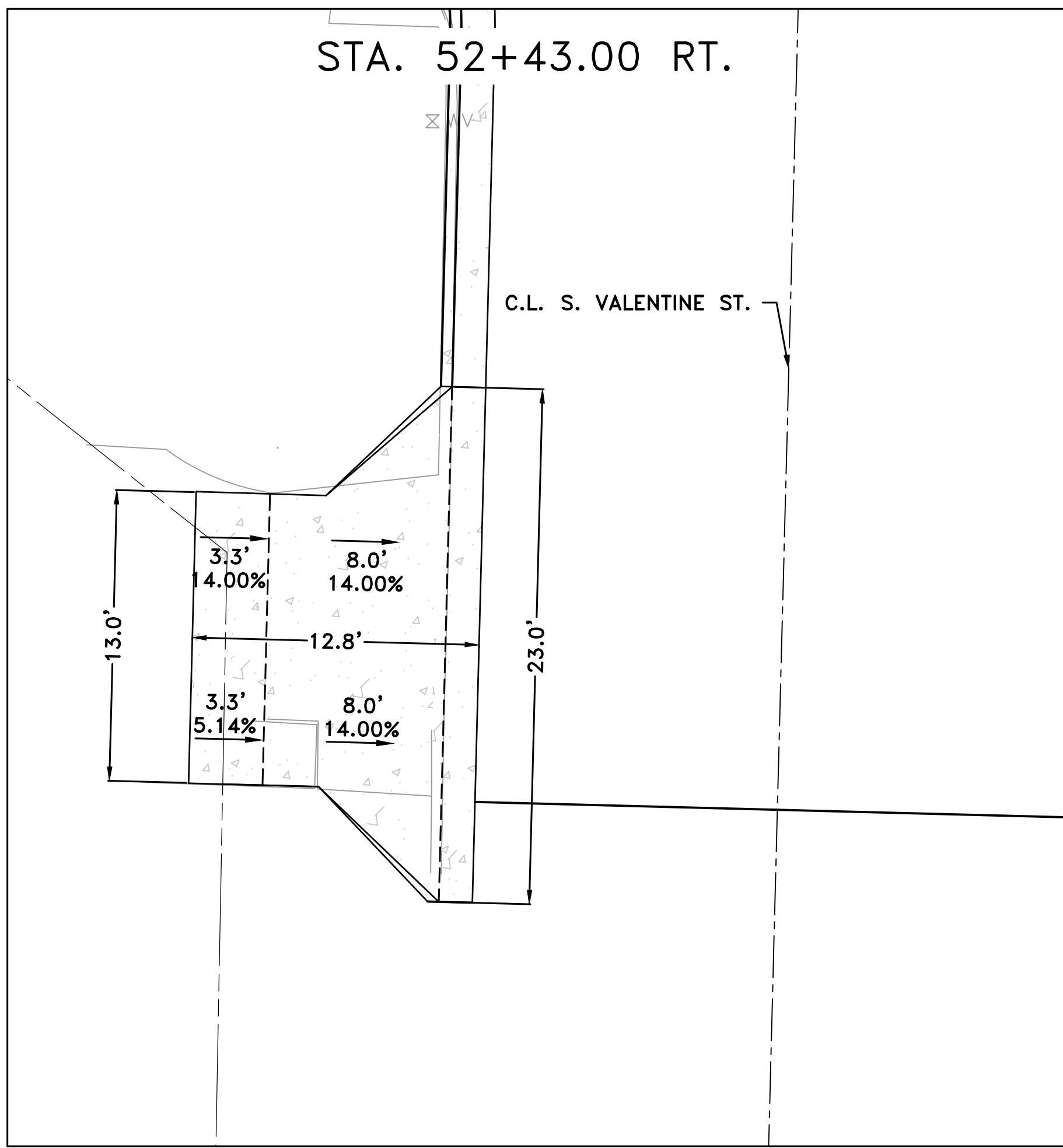
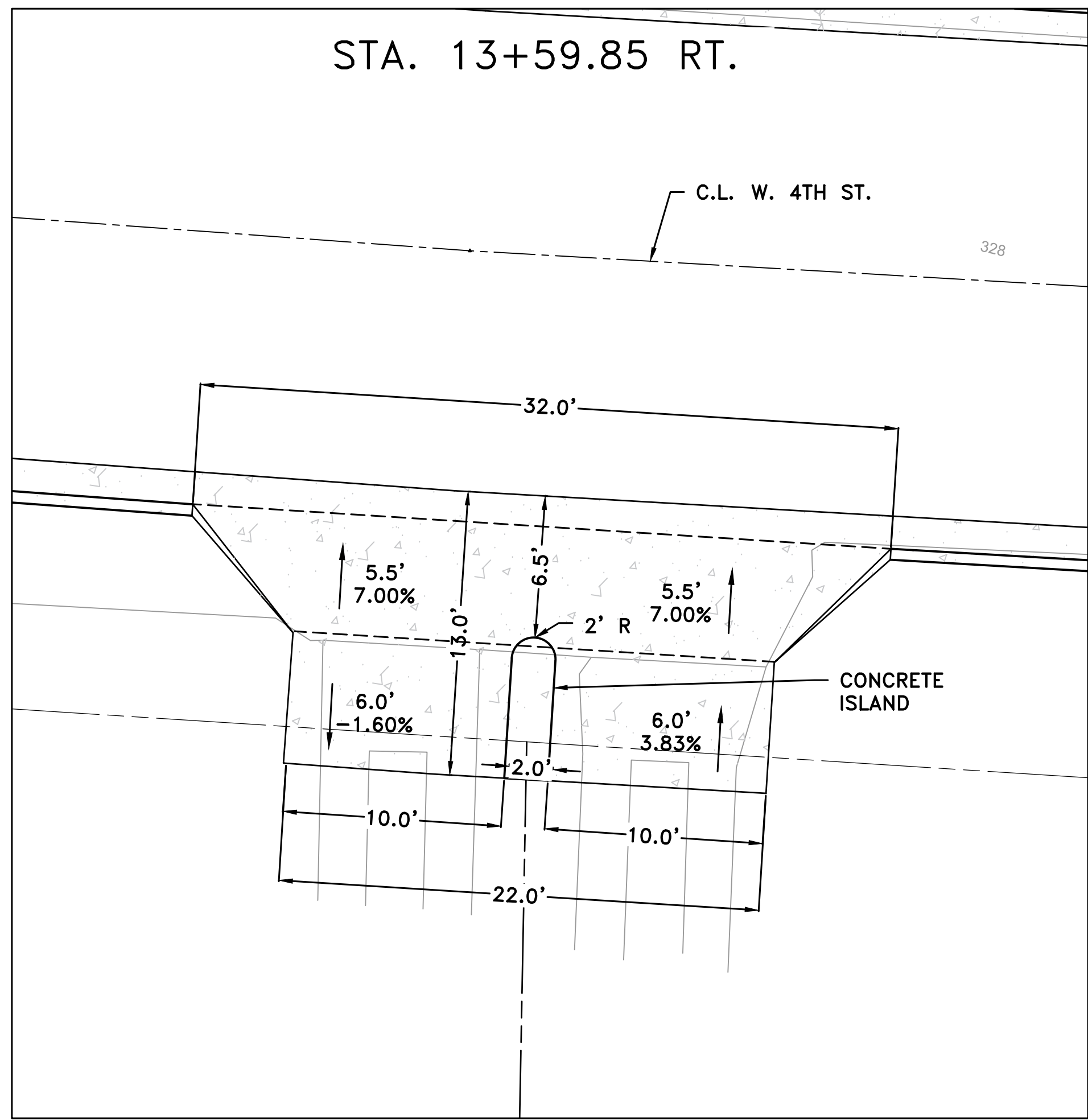
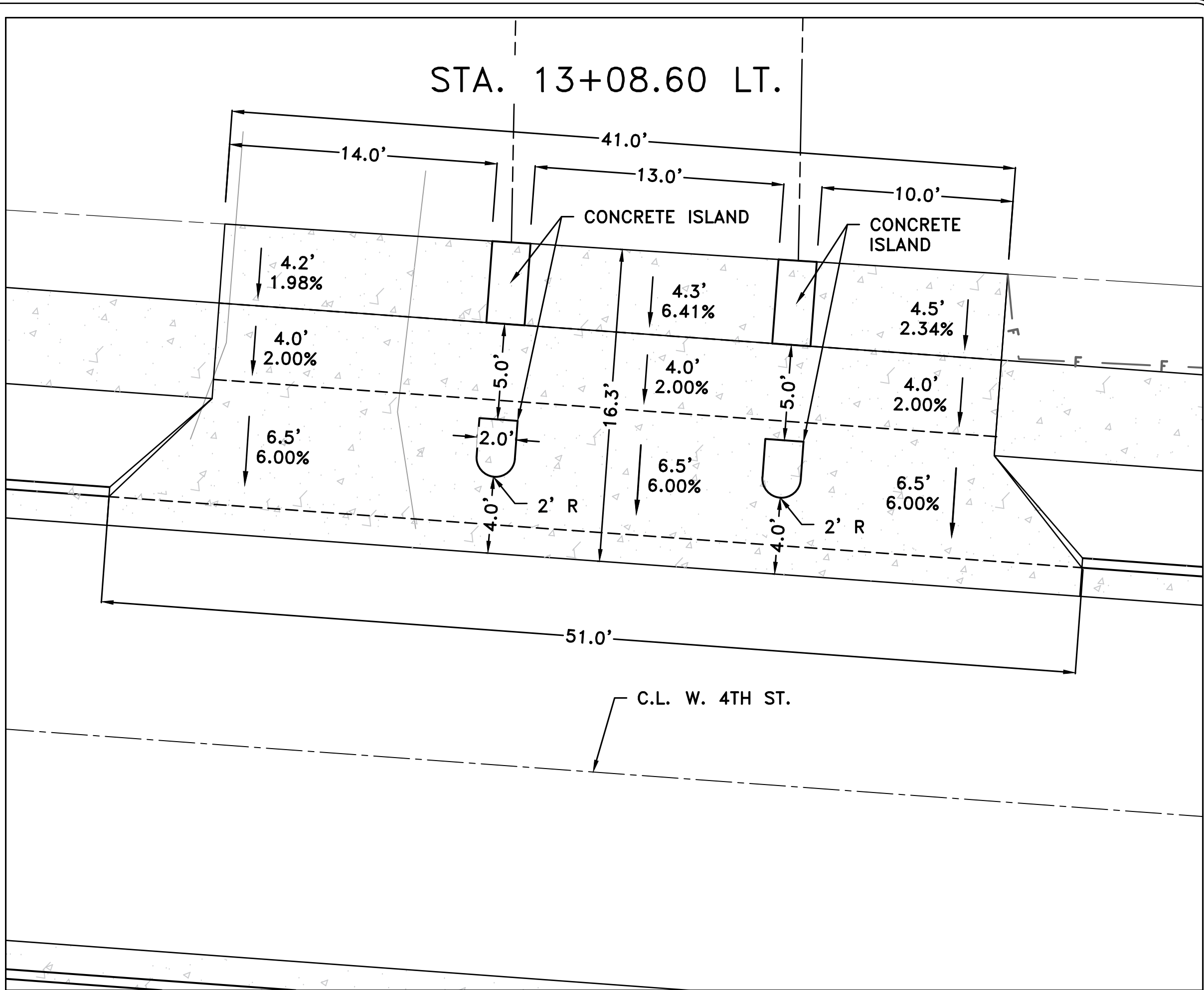
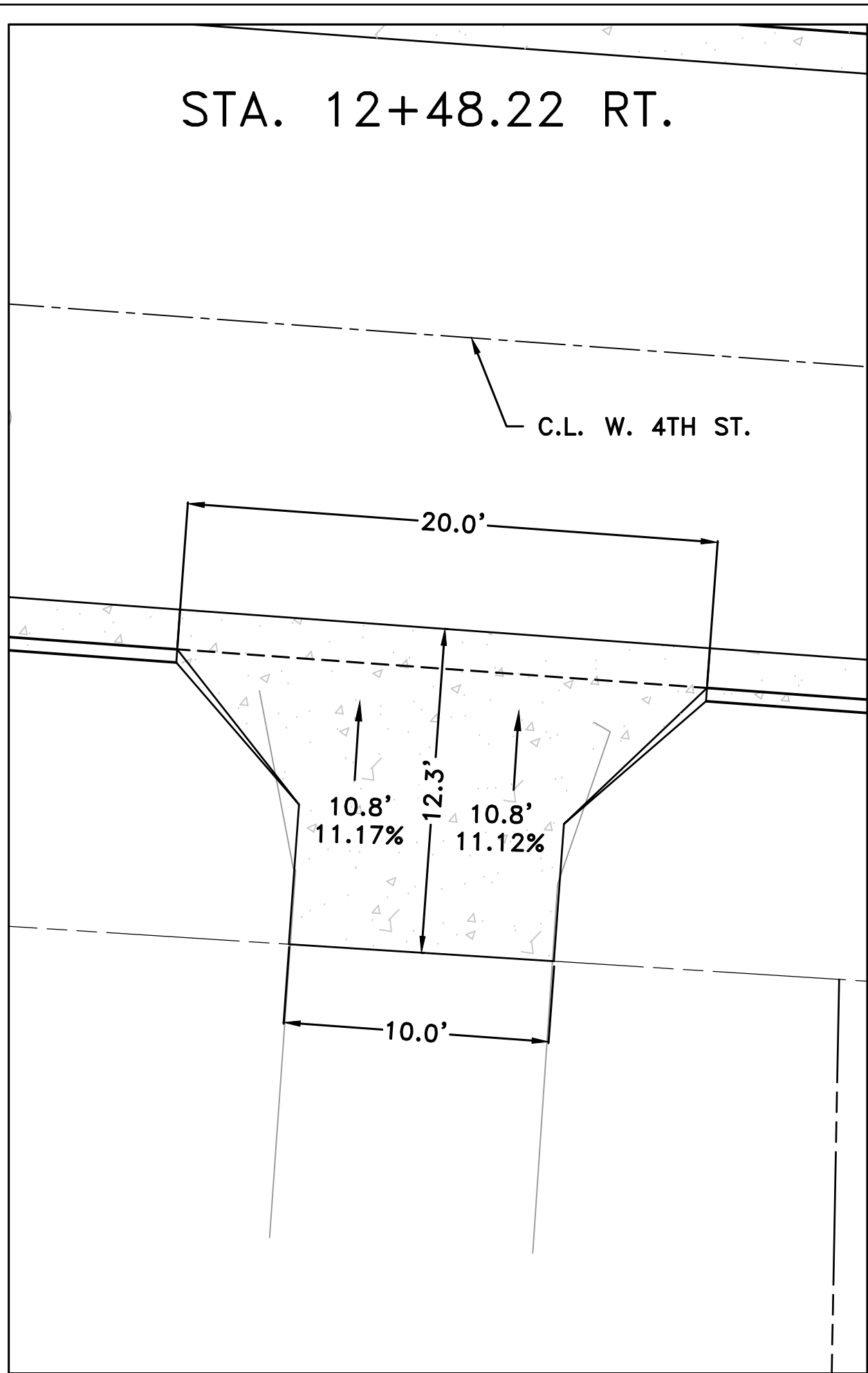
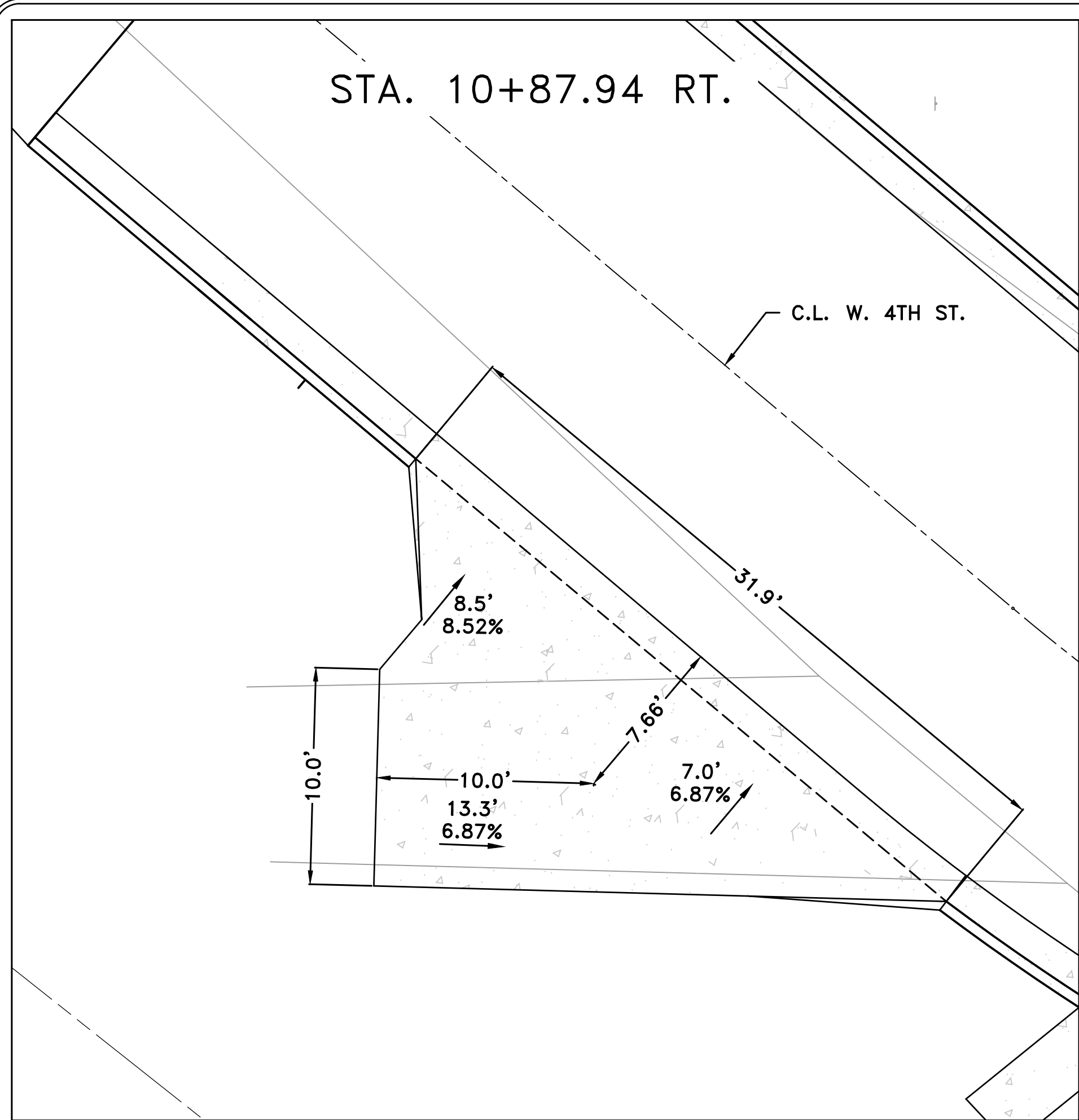
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

MAINTENANCE OF TRAFFIC

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



DRAWN BY JAW
DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C27



REVISIONS	DATE

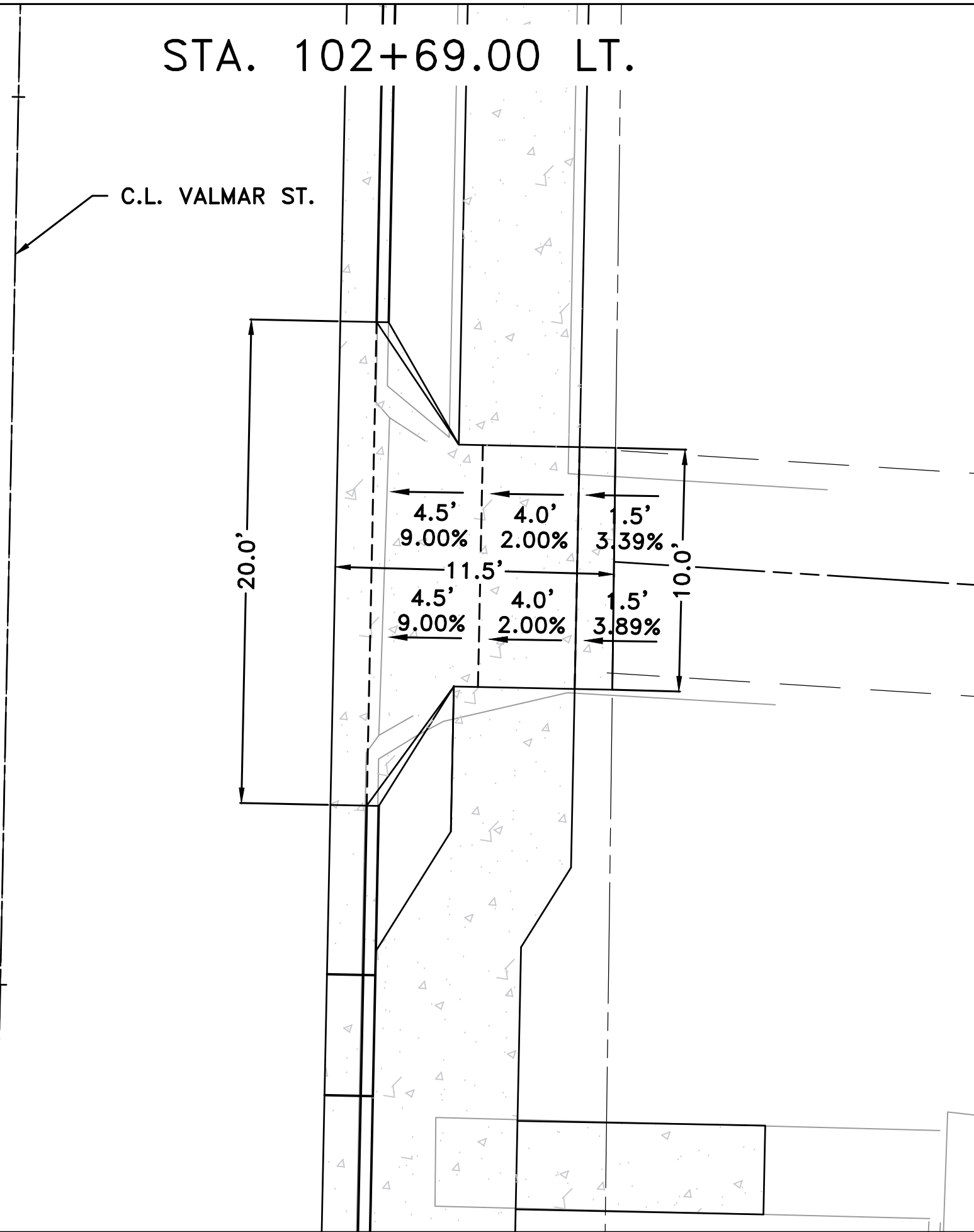
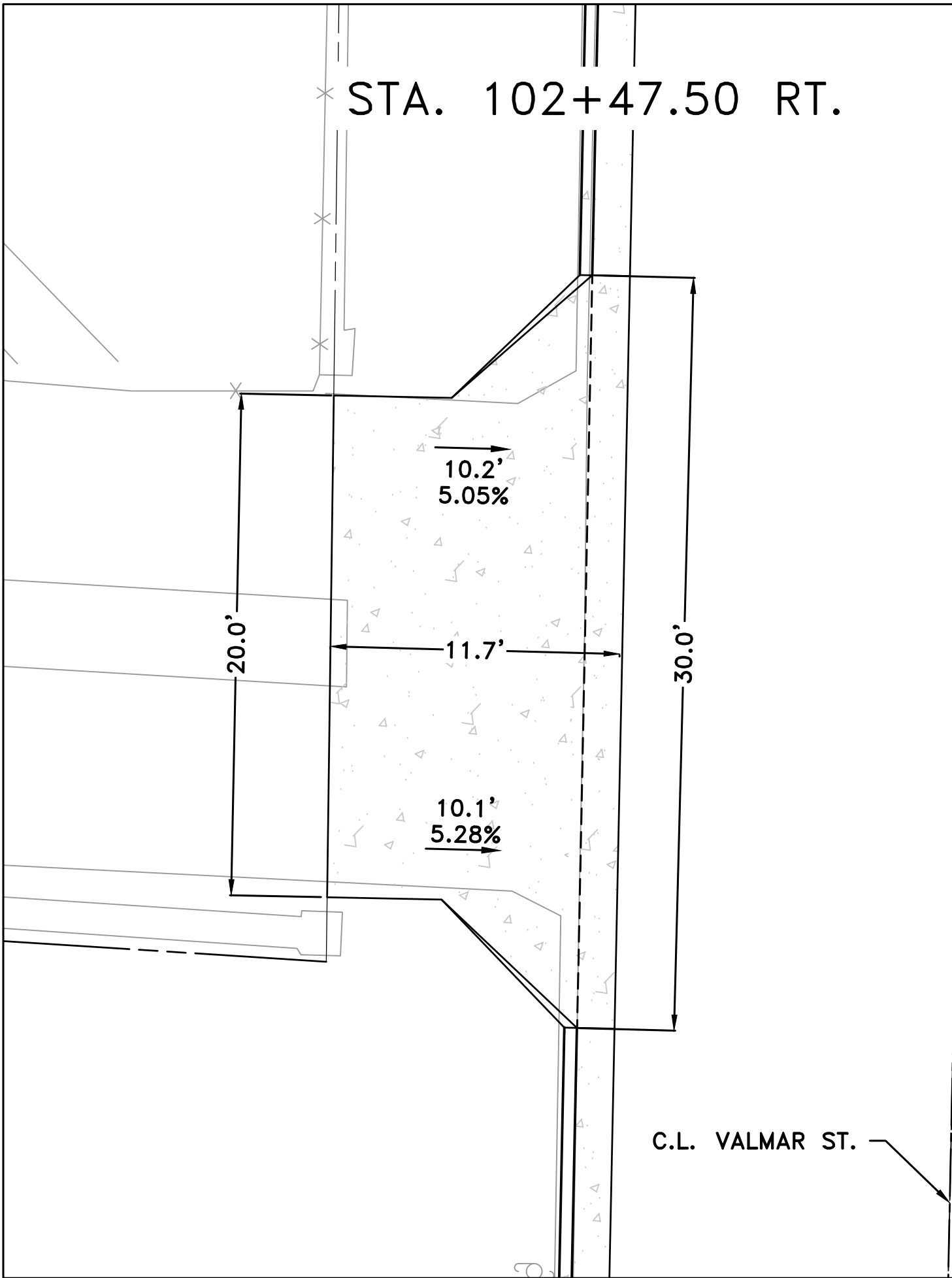
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

DRIVEWAY DETAILS

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



DRAWN BY MJM
DESIGNED MJM
CHECKED RCC
DATE 12-10-2019
SCALE N.T.S.
PROJECT NO. 03-17-DR-107
SHEET NO. C28

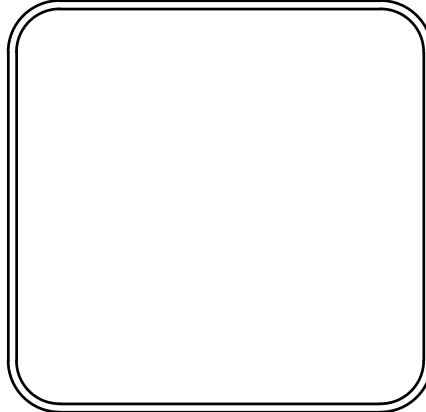


REVISIONS	DATE

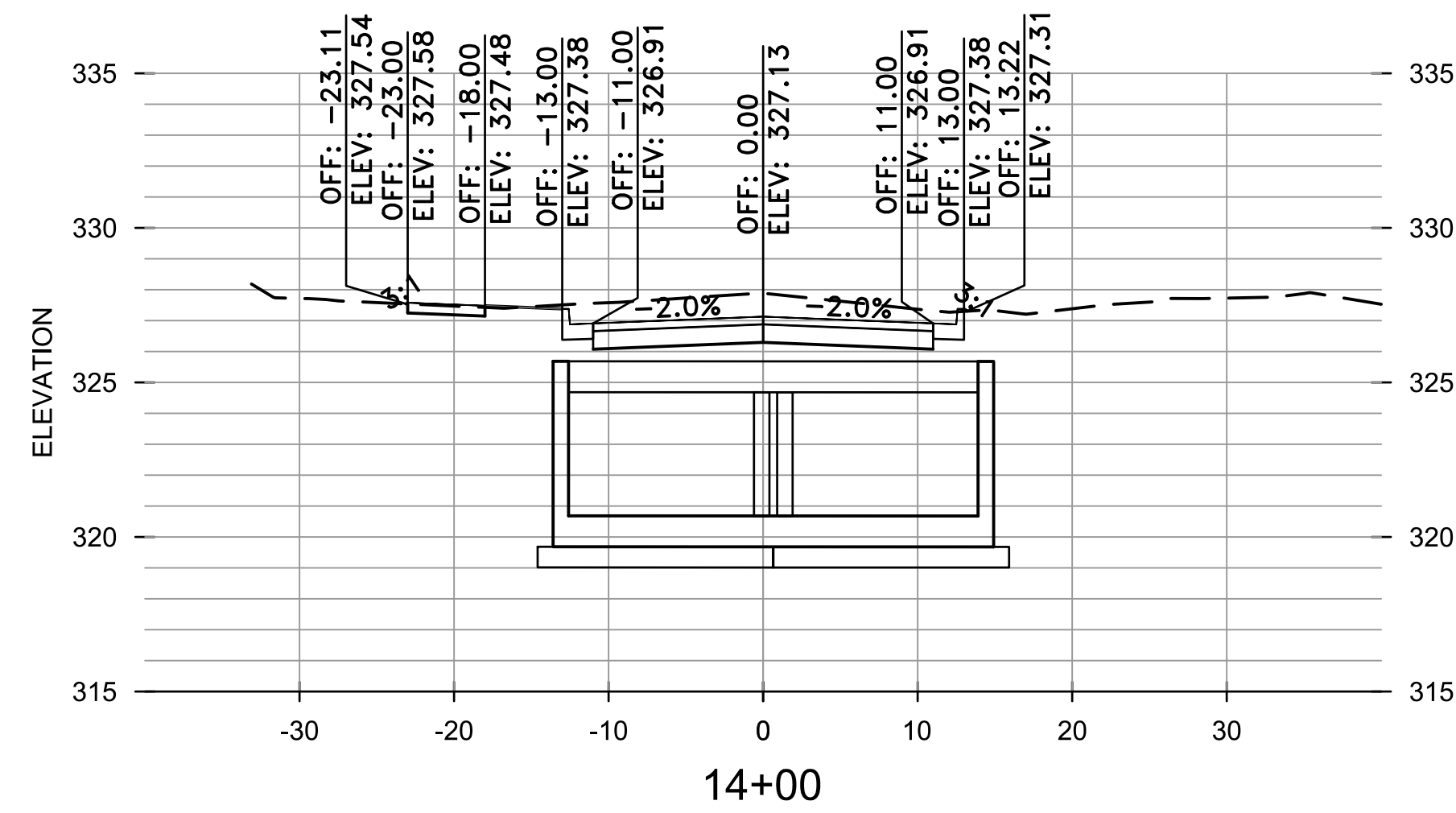
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

DRIVEWAY DETAILS

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



DRAWN BY	MJM
DESIGNED	MJM
CHECKED	RCC
DATE	12-10-2019
SCALE	N.T.S.
PROJECT NO.	03-17-DR-107
SHEET NO.	C29



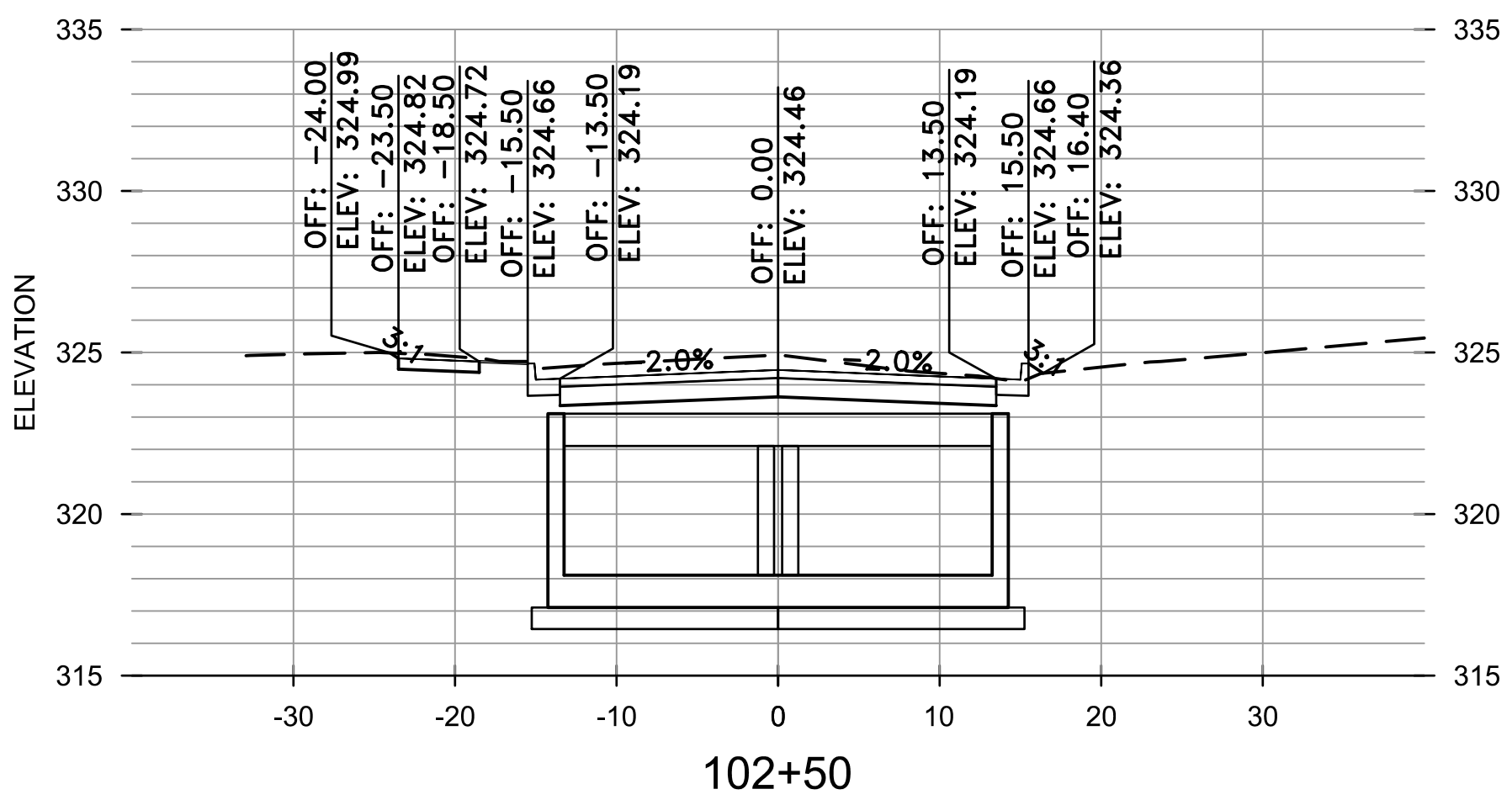
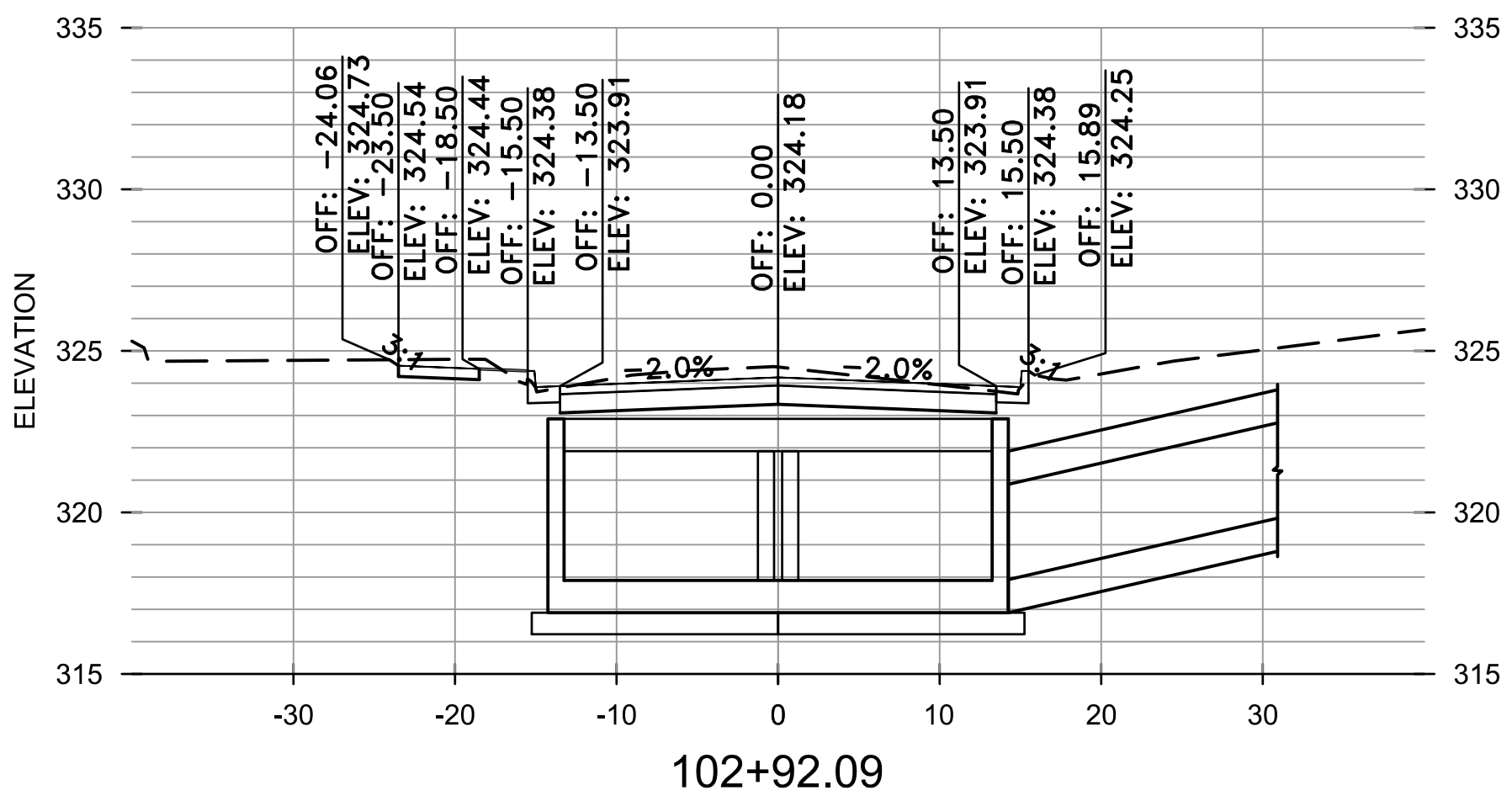
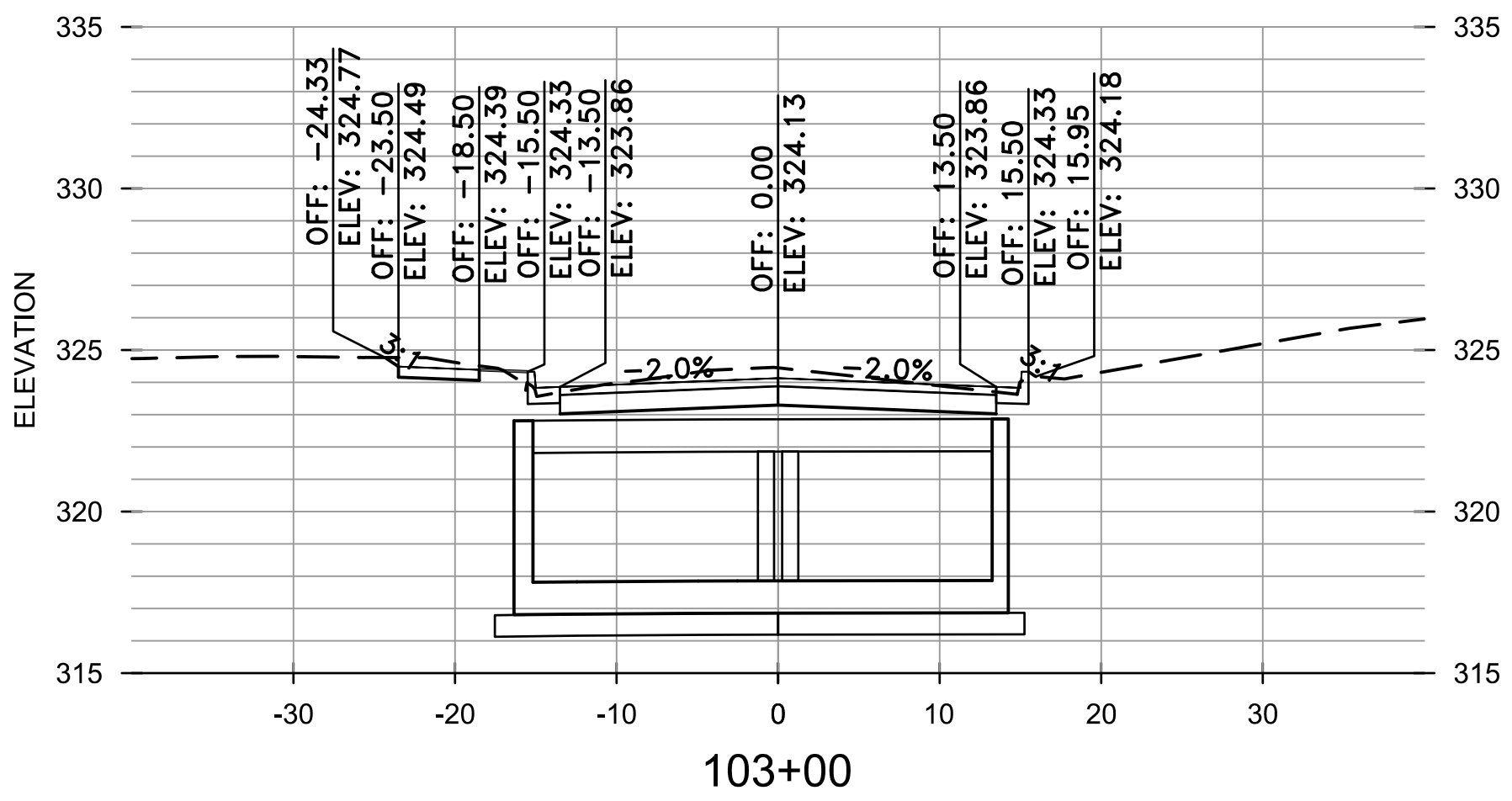
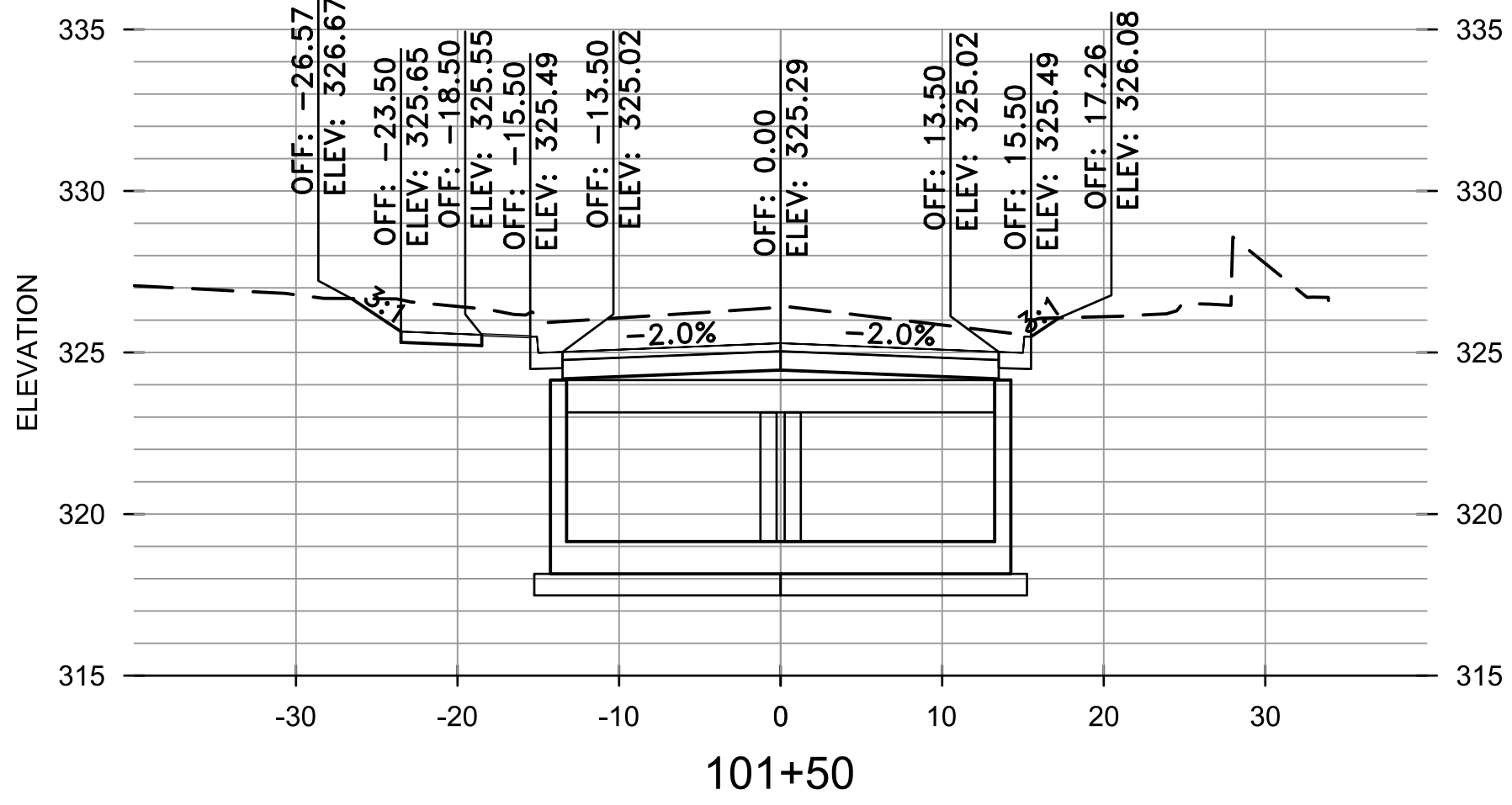
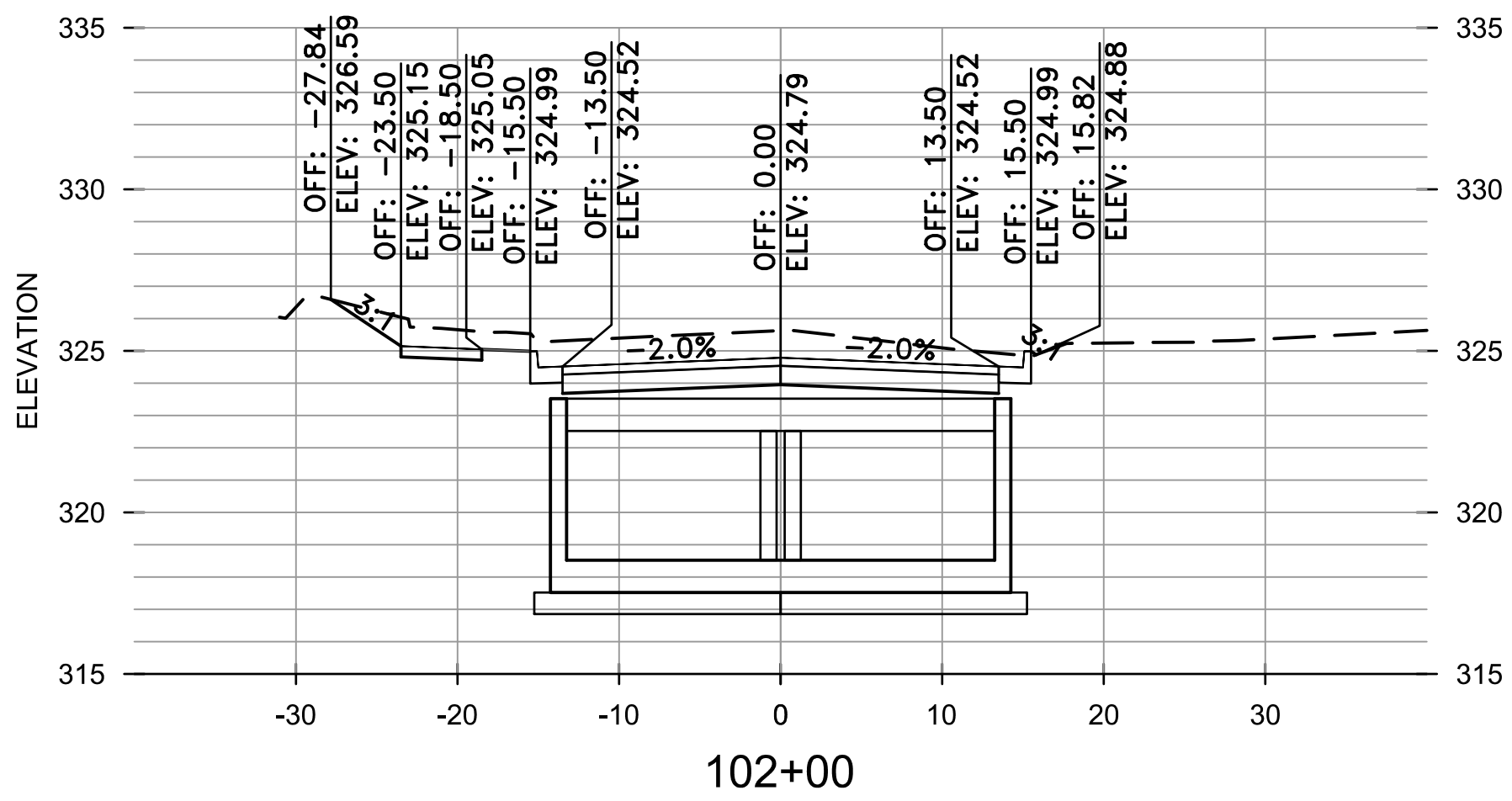
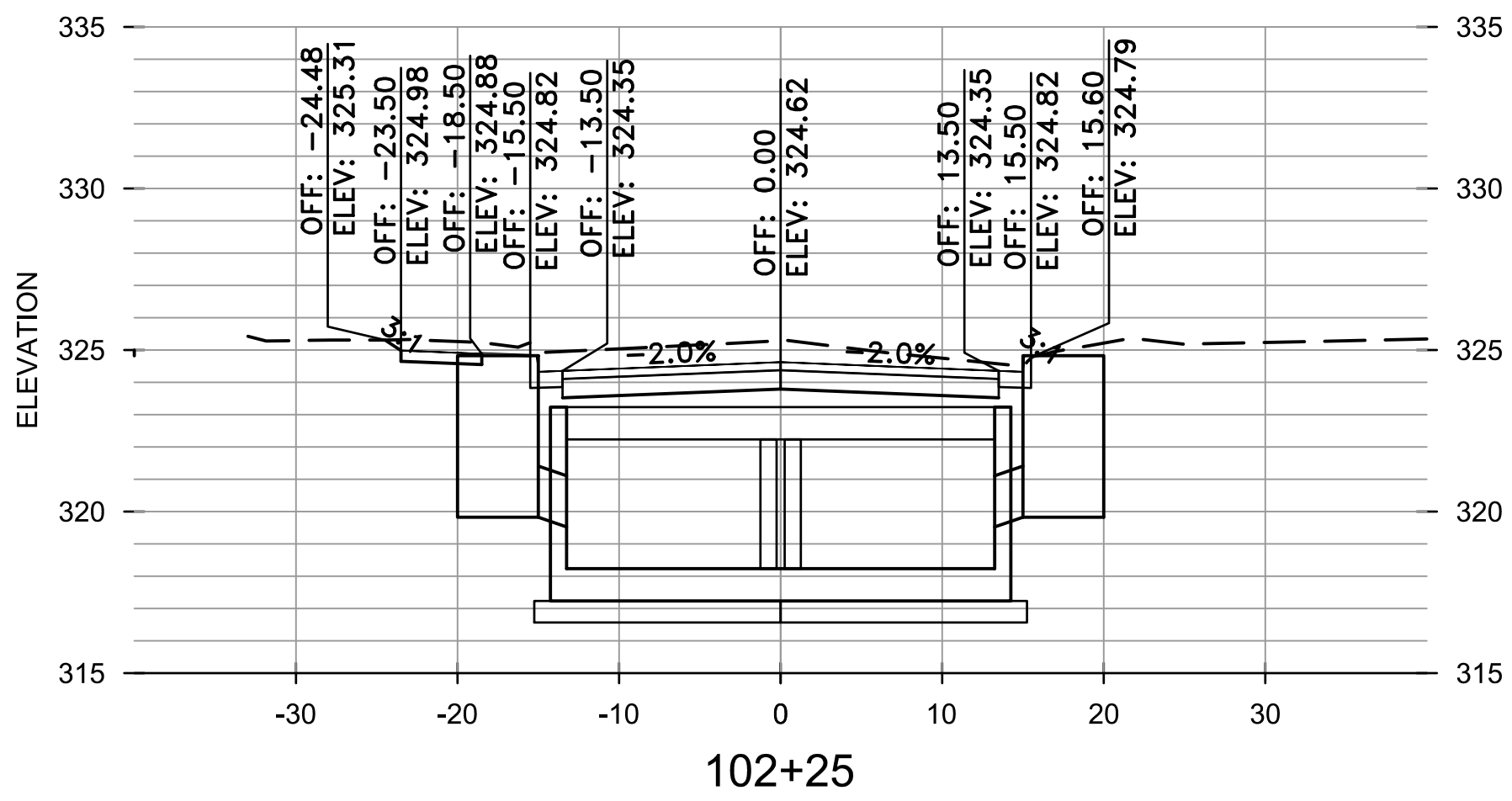
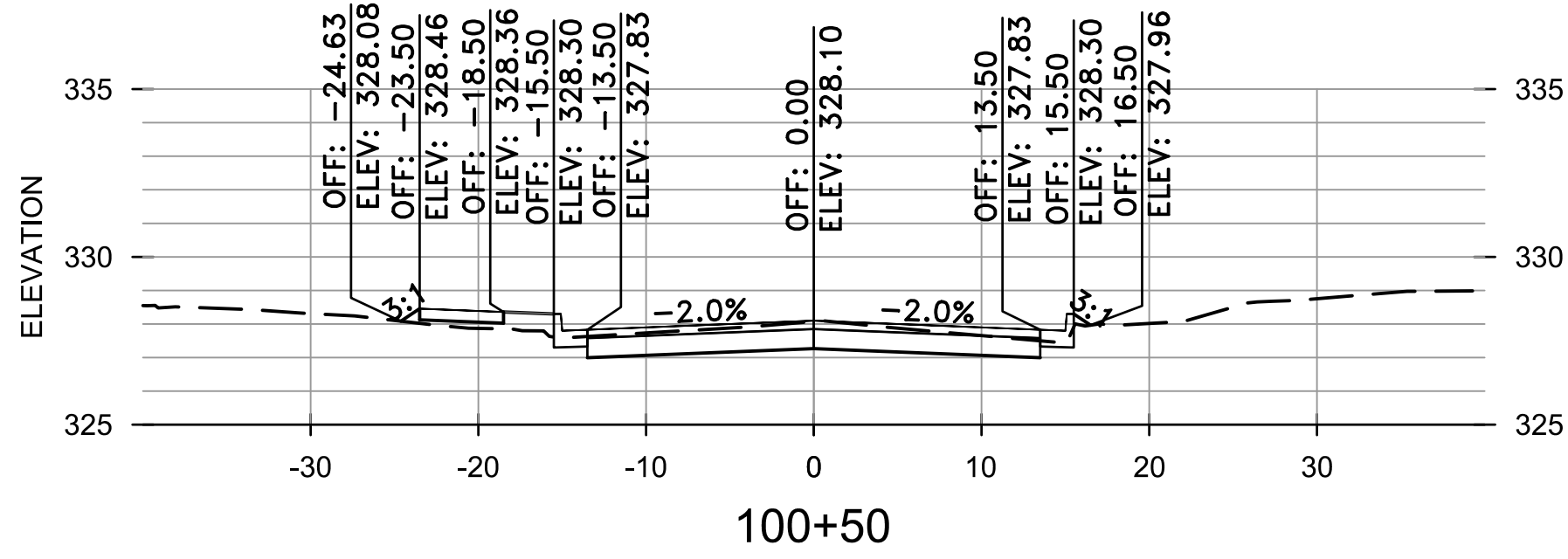
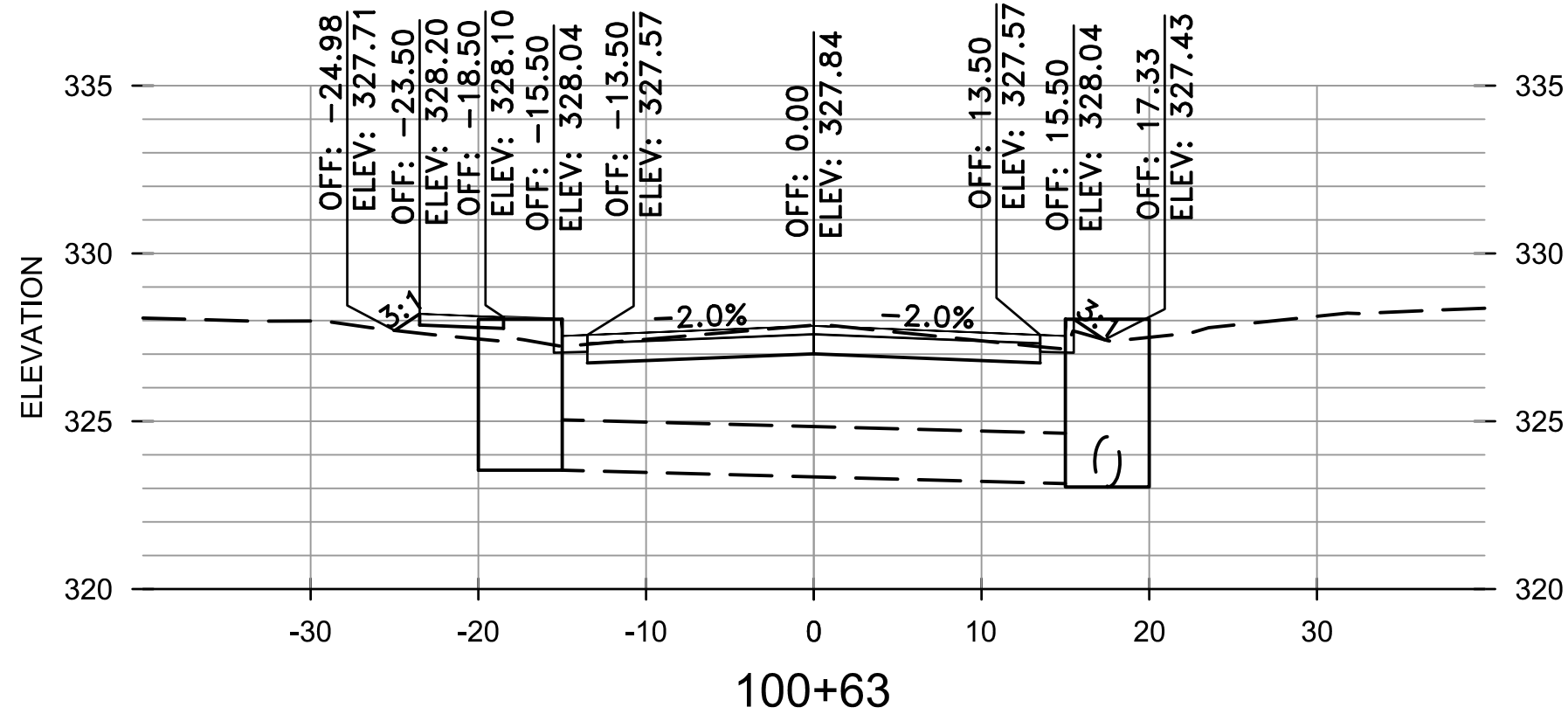
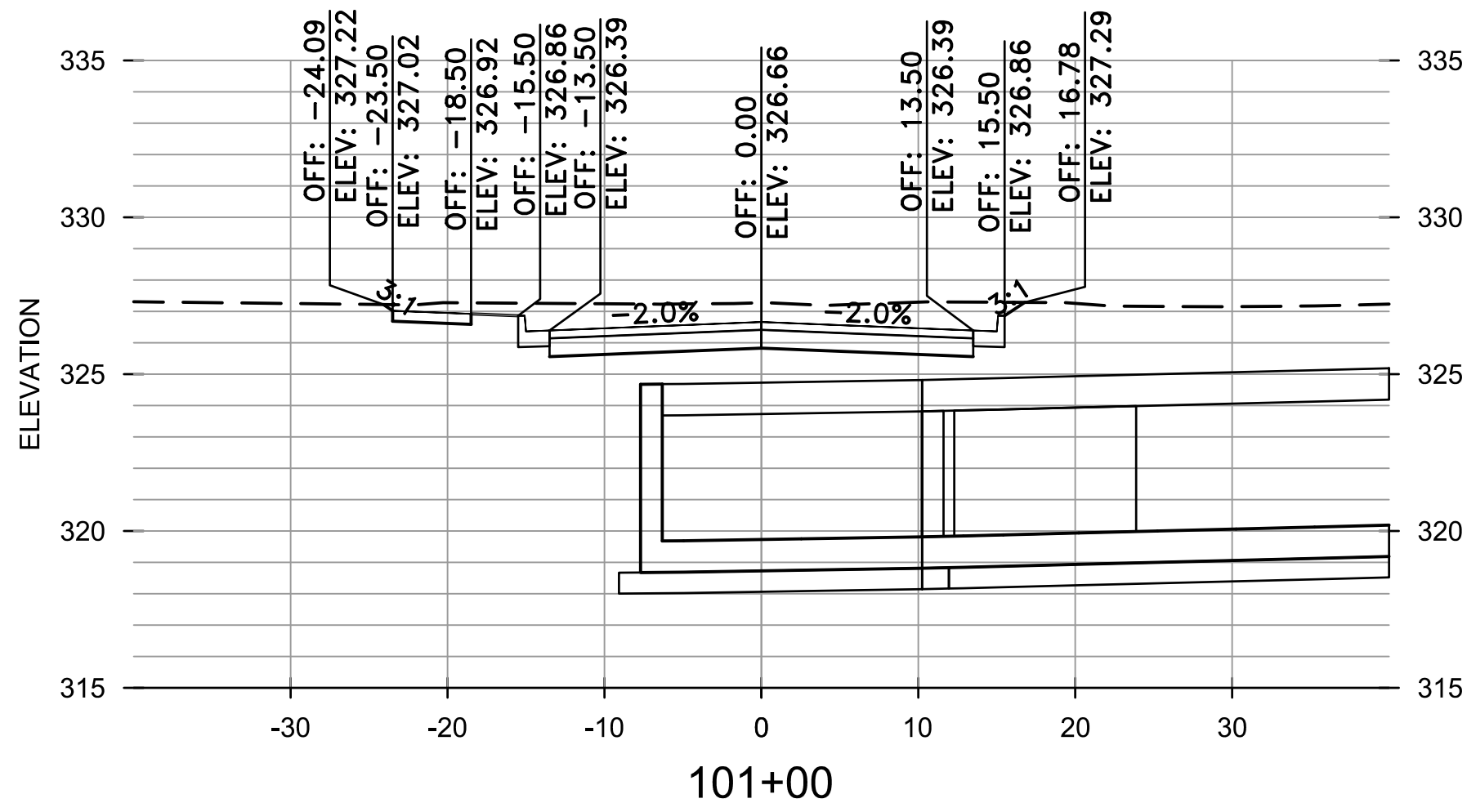
**CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS**

**CROSS SECTIONS
4TH STREET**

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



DRAWN BY MJM
DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE H: 1"=40' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C31

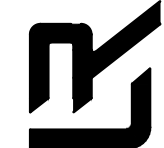


REVISIONS	DATE

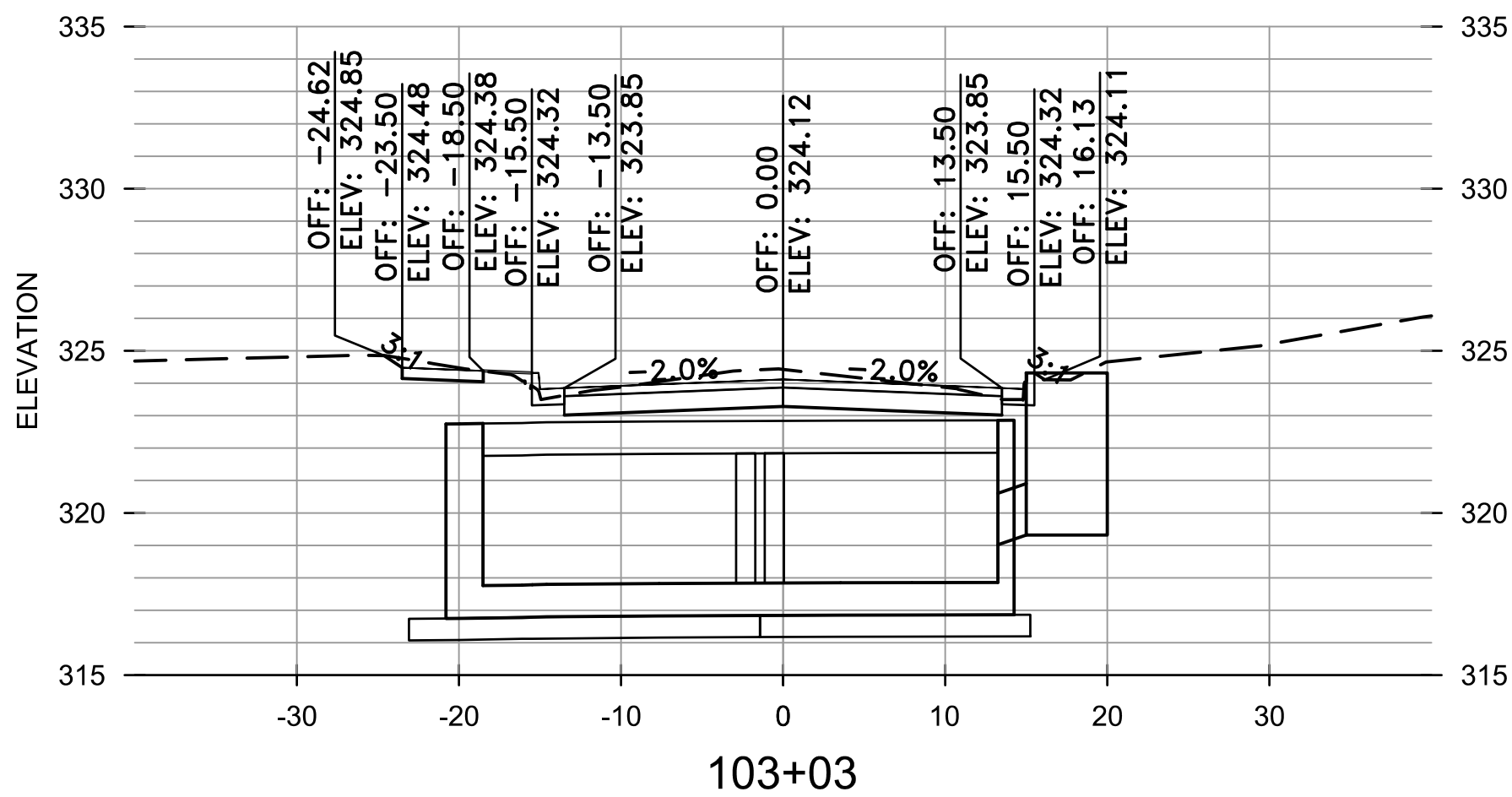
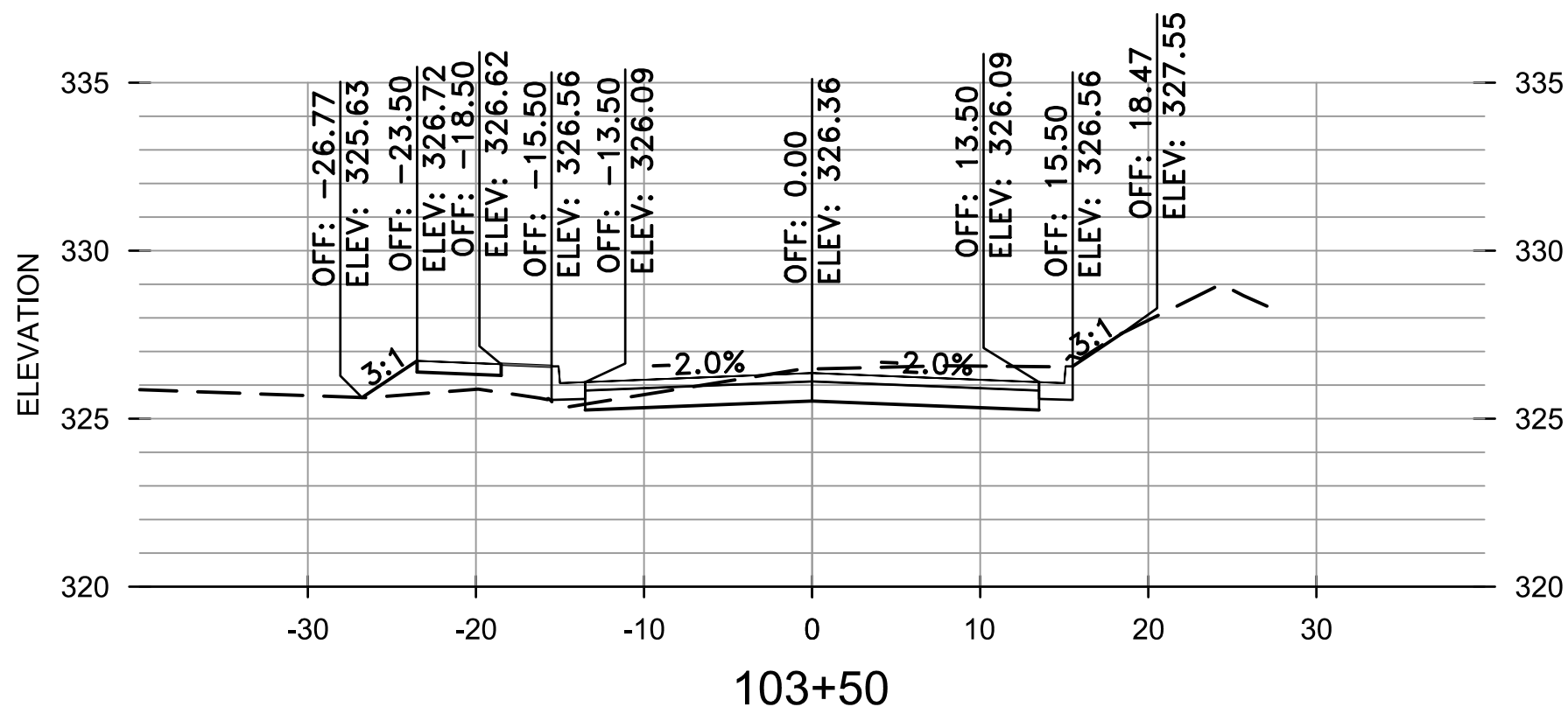
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

CROSS SECTIONS
VALMAR STREET

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



DRAWN BY MJM
DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C32

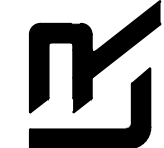


REVISIONS	DATE

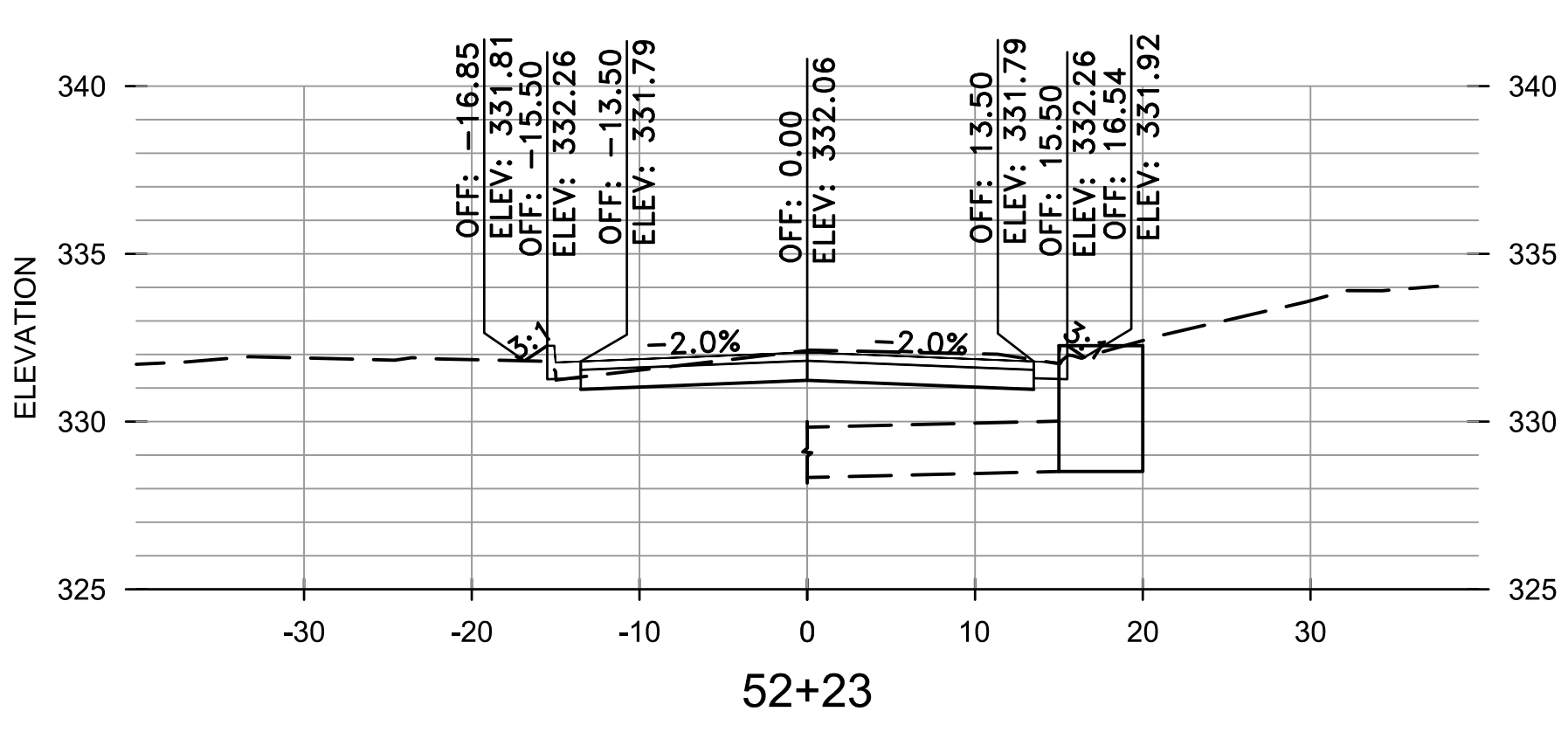
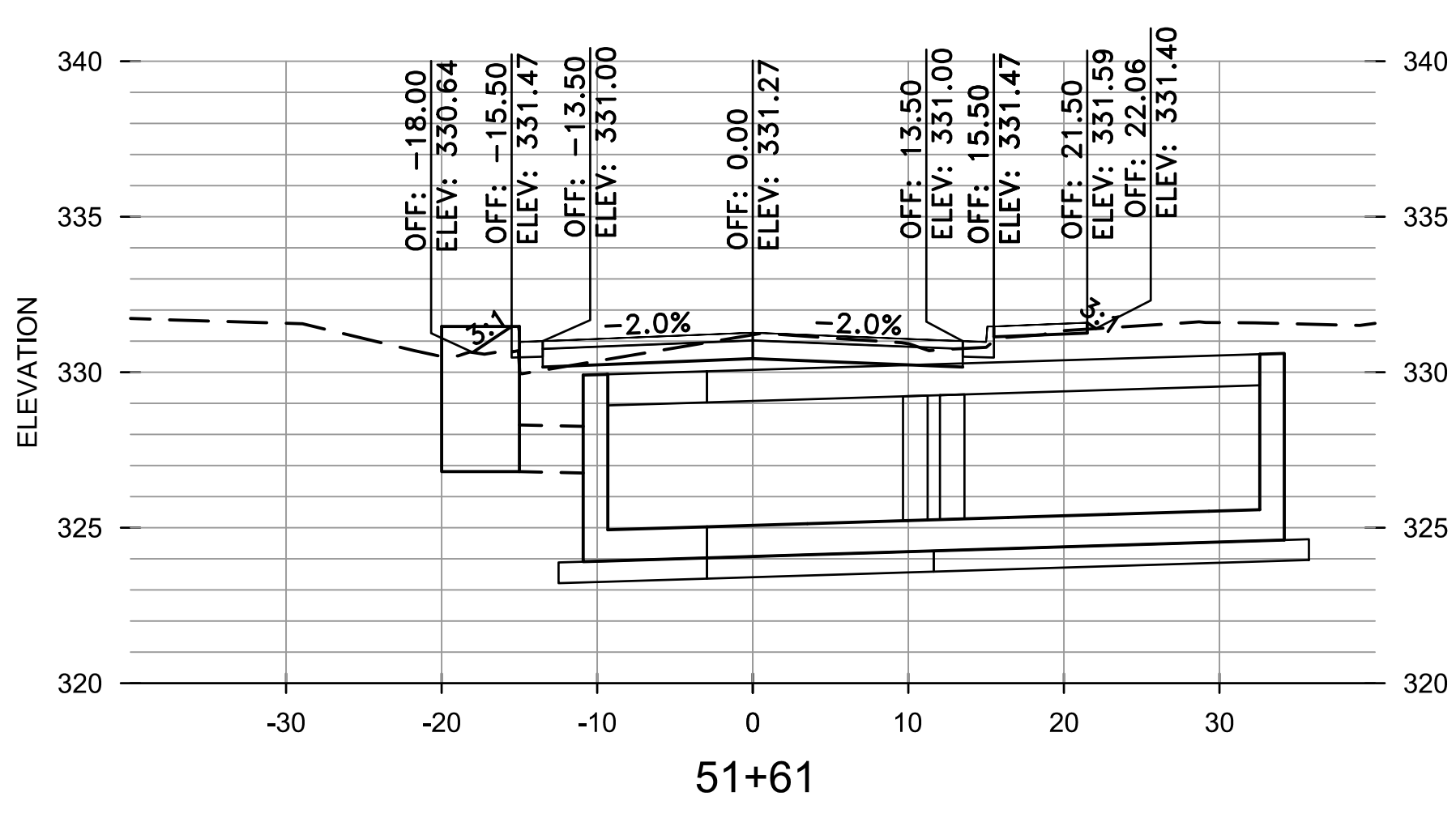
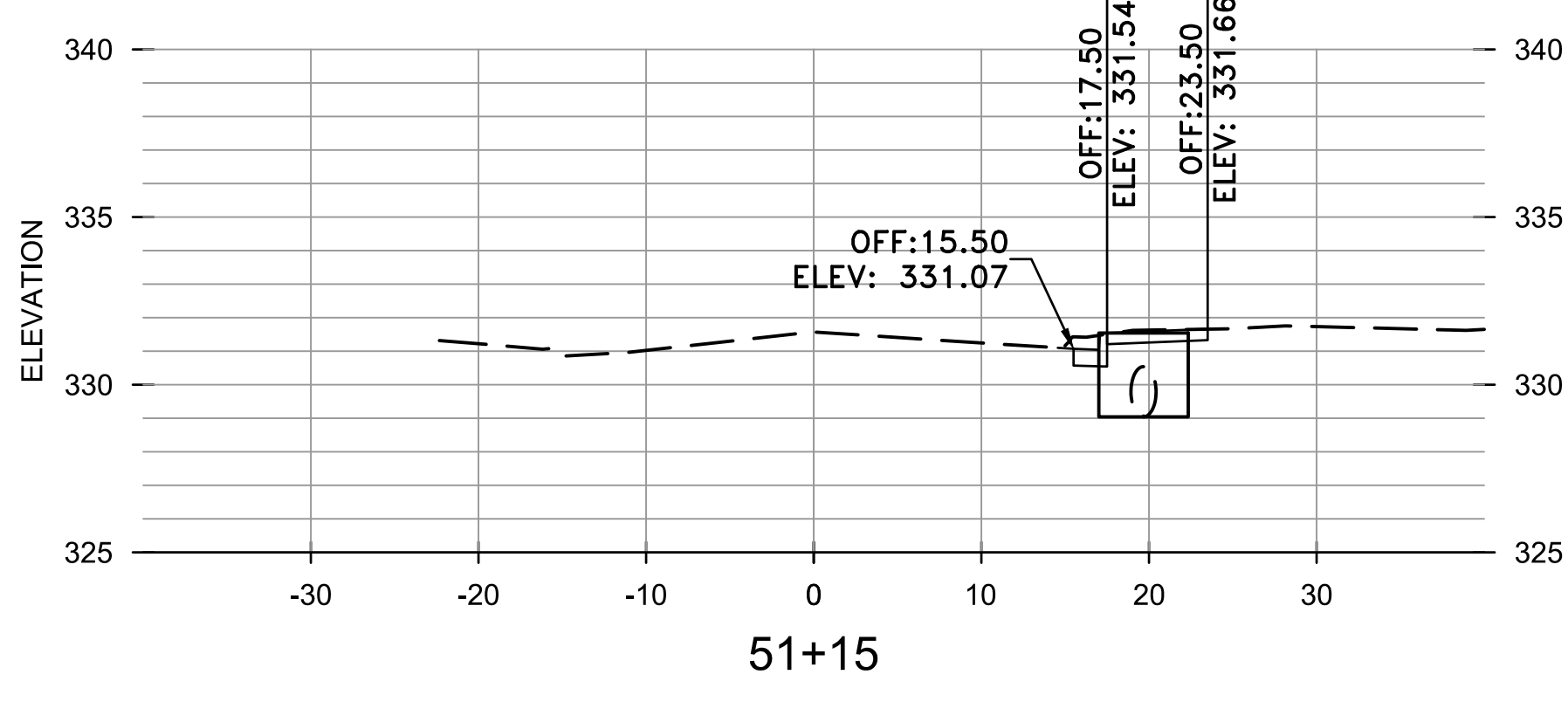
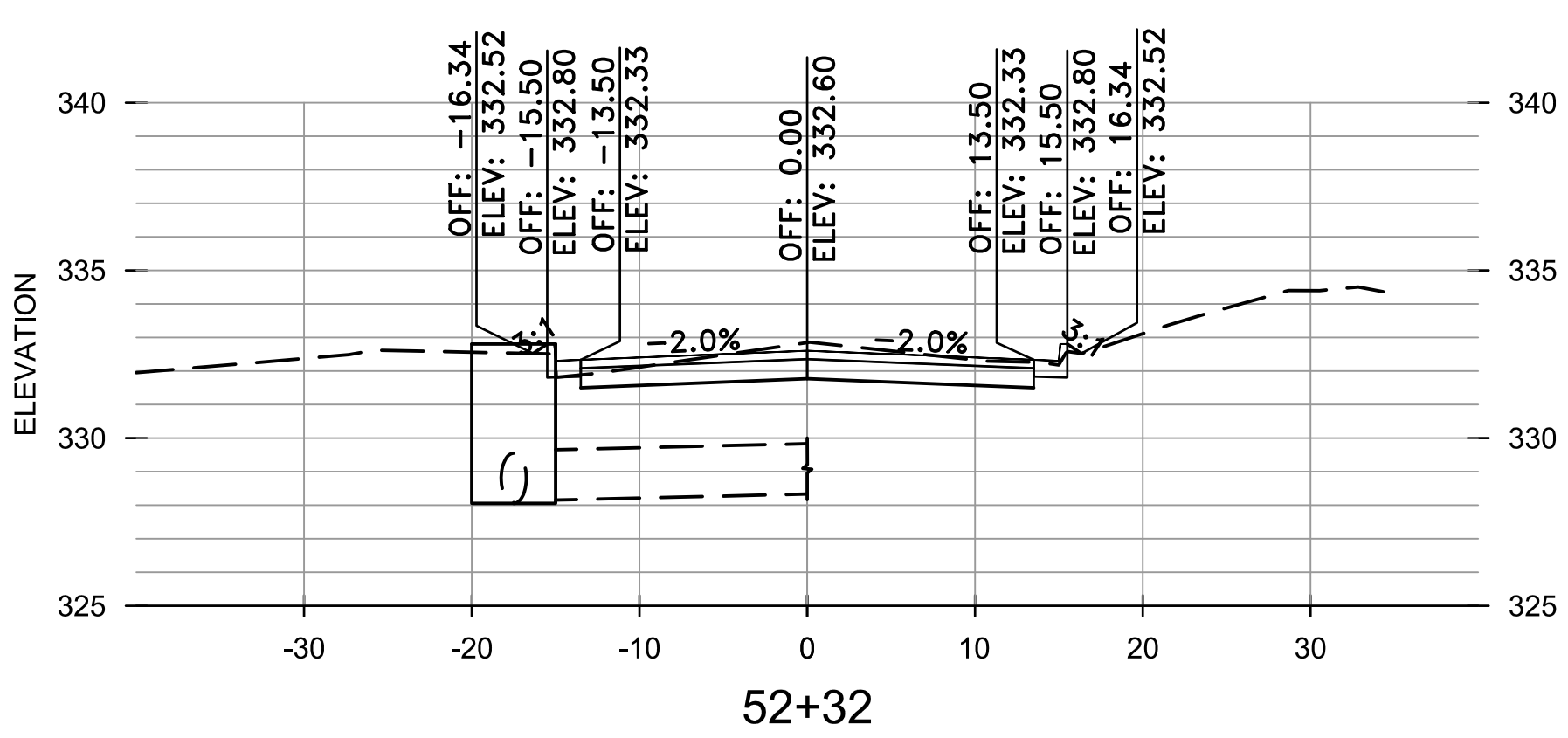
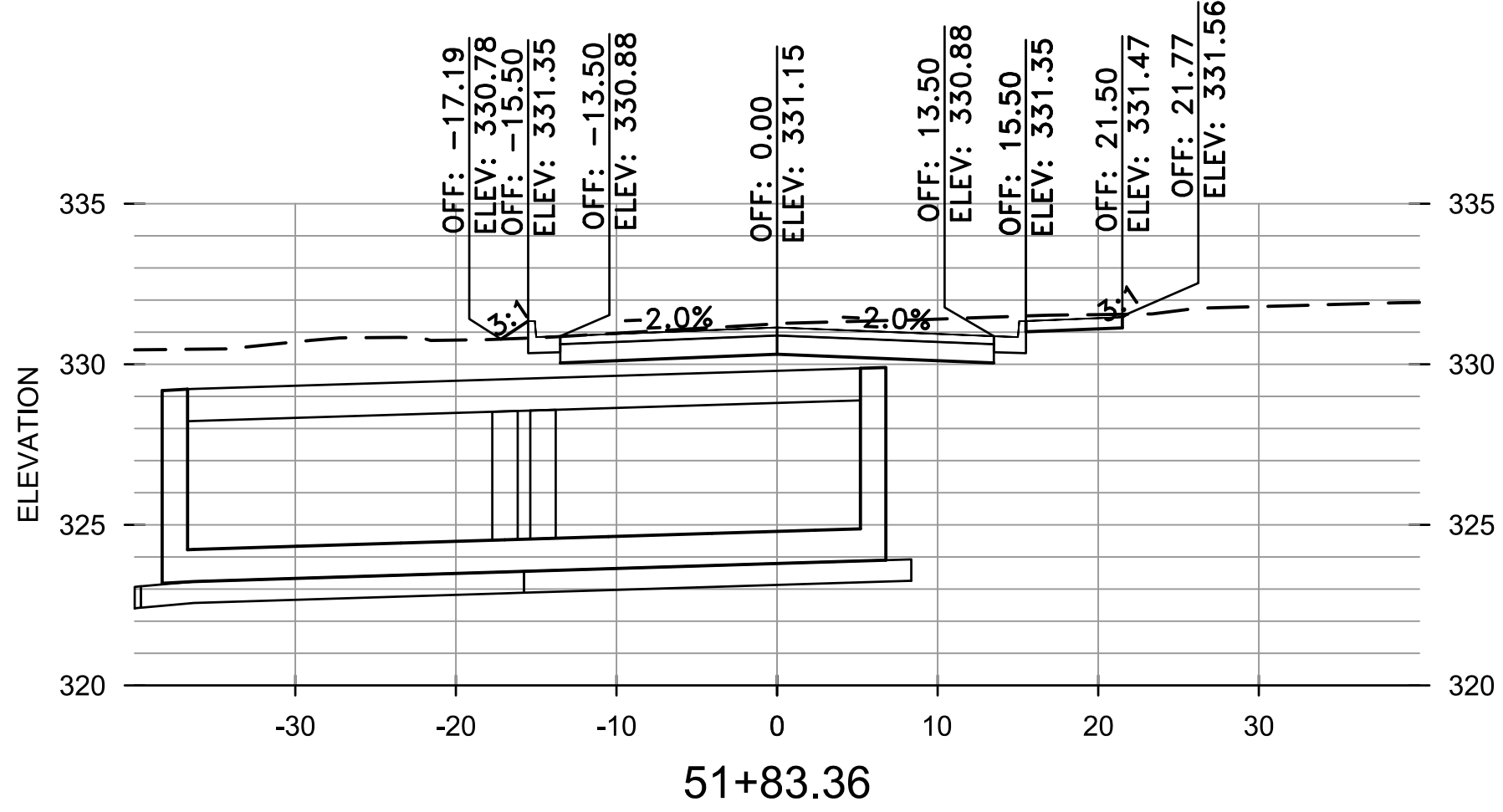
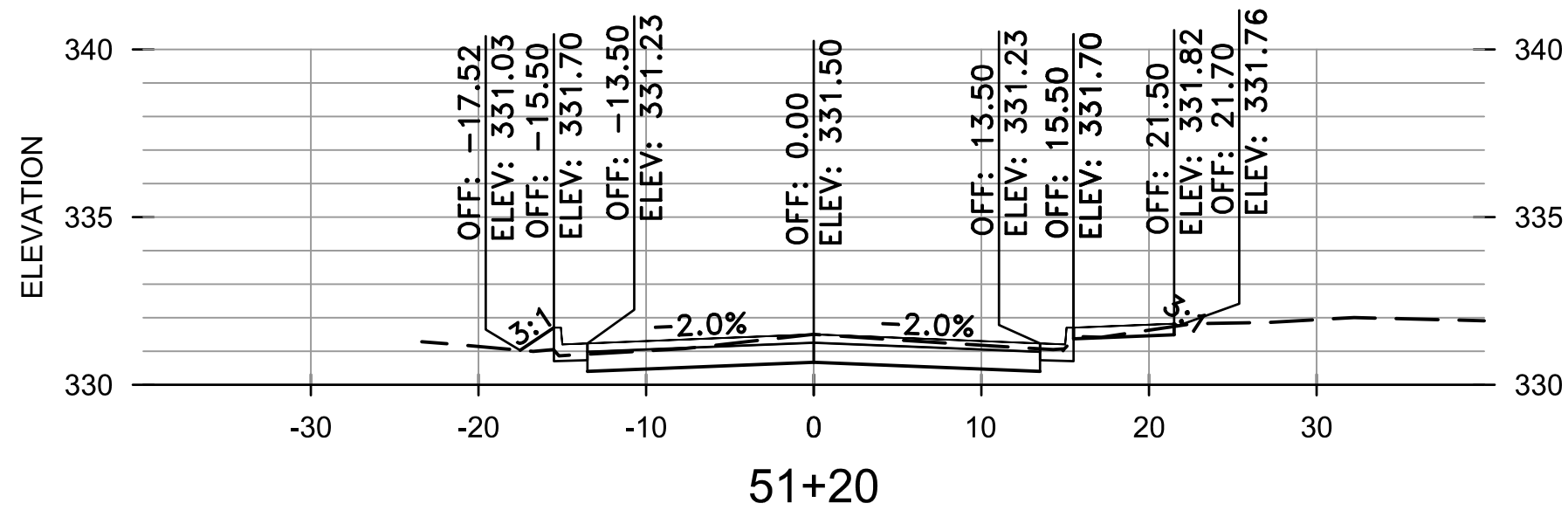
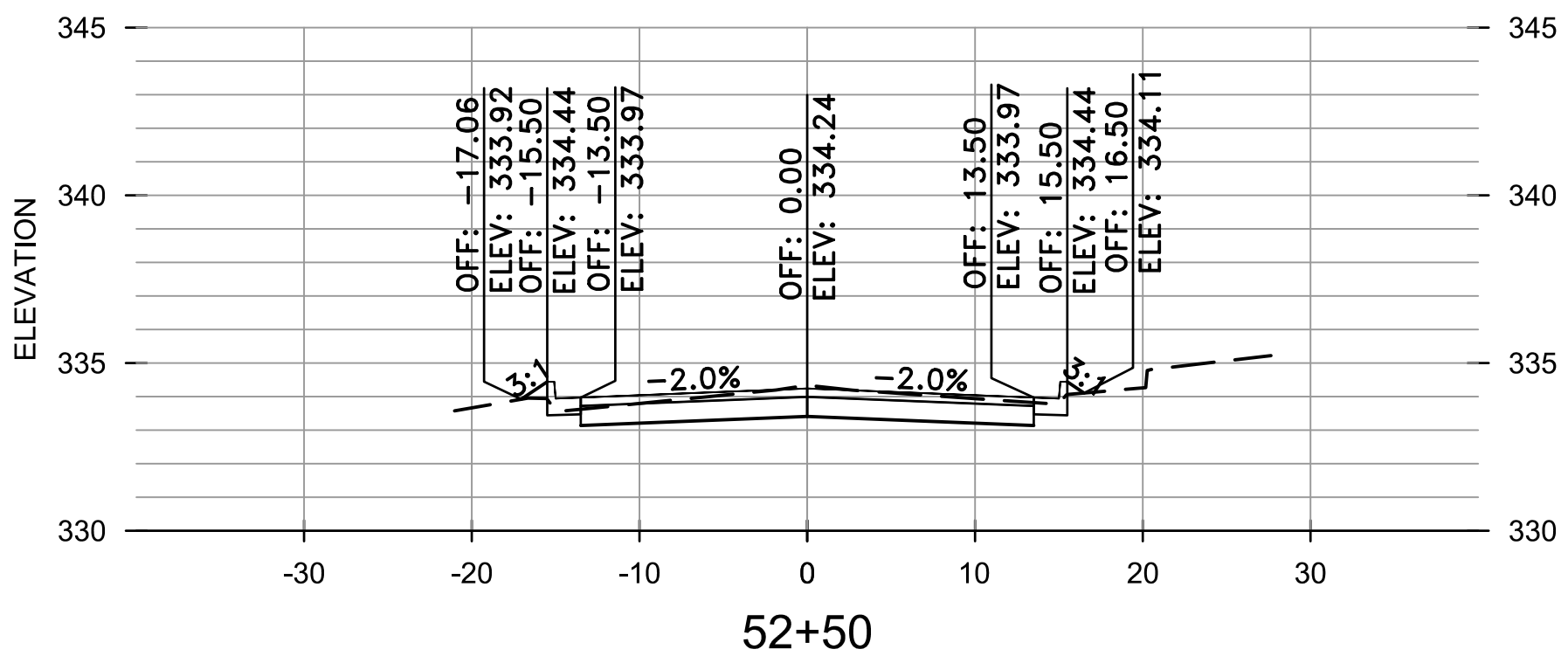
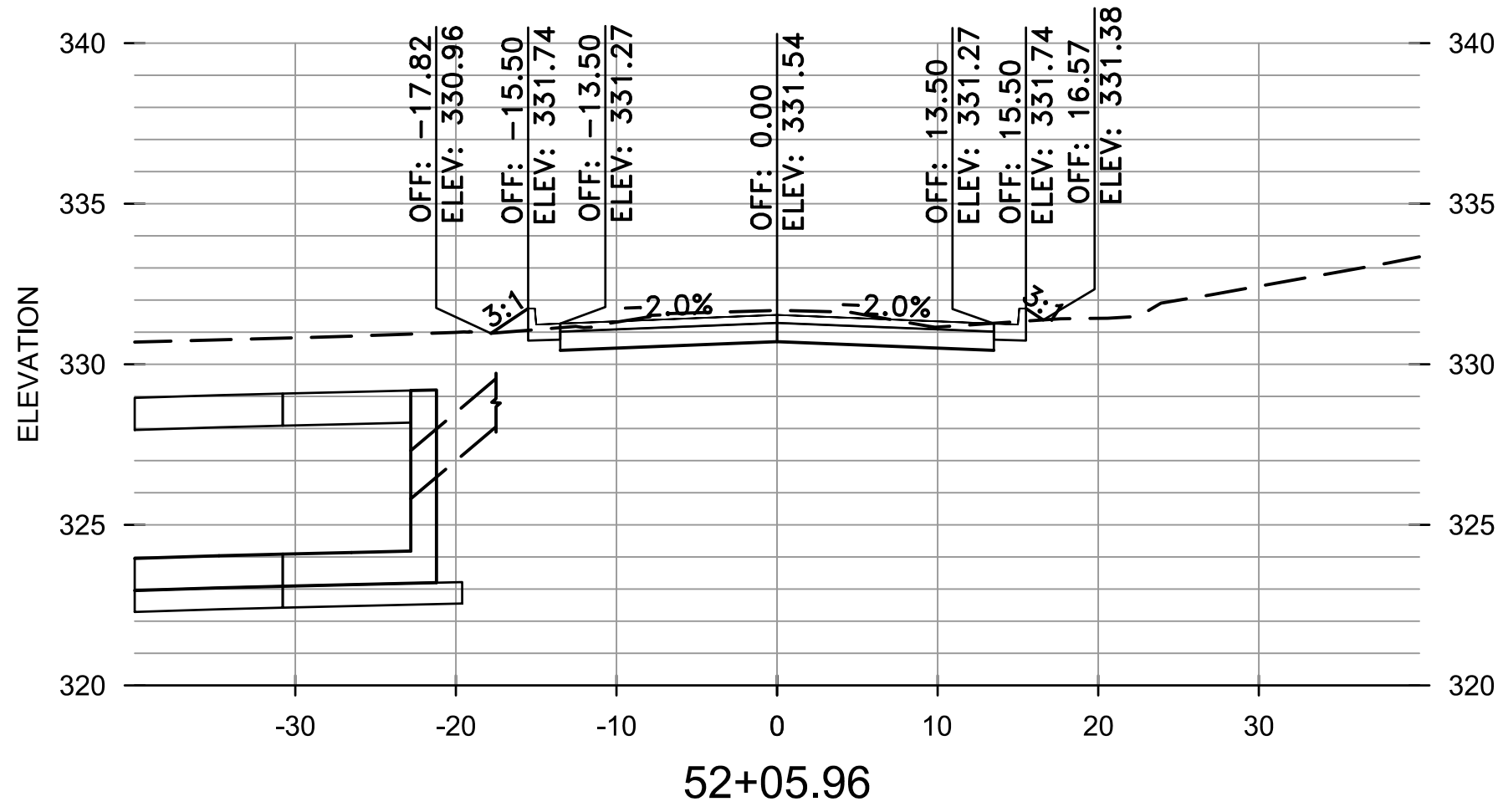
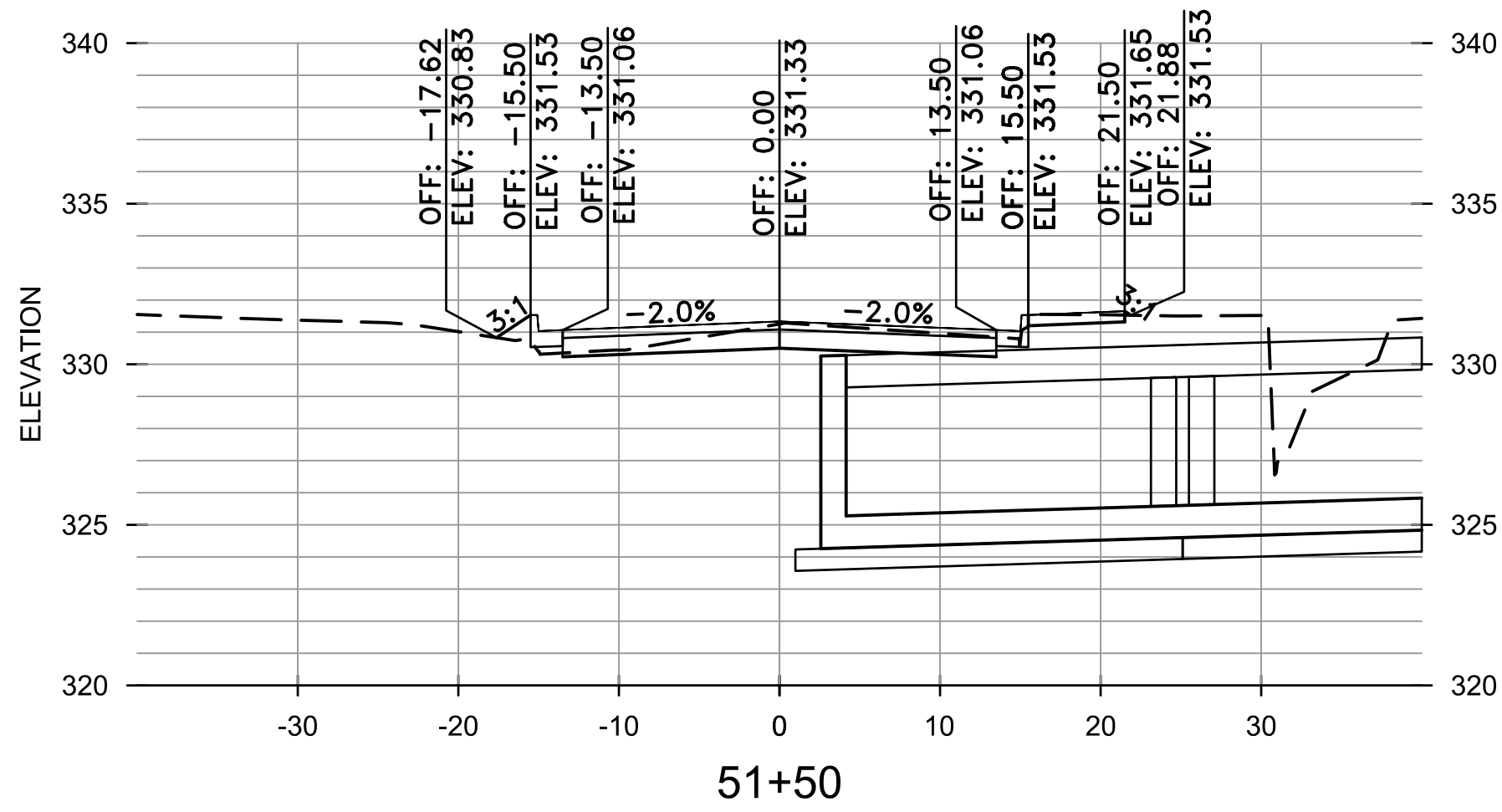
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

CROSS SECTIONS
VALMAR STREET

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



DRAWN BY MJM
DESIGNED RCC
CHECKED RCC
DATE 12-10-2019
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C33



REVISIONS	DATE

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

CROSS SECTIONS
VALENTINE STREET

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

DRAWN BY
MJM
DESIGNED
RCC
CHECKED
RCC
DATE
12-10-2019
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C34