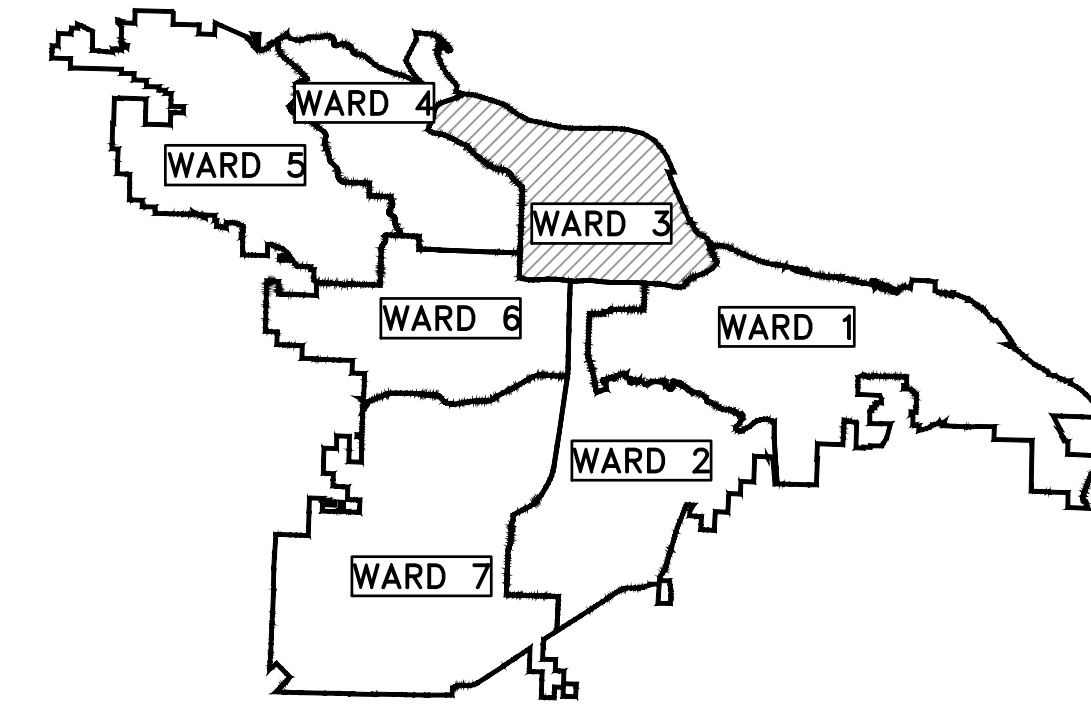
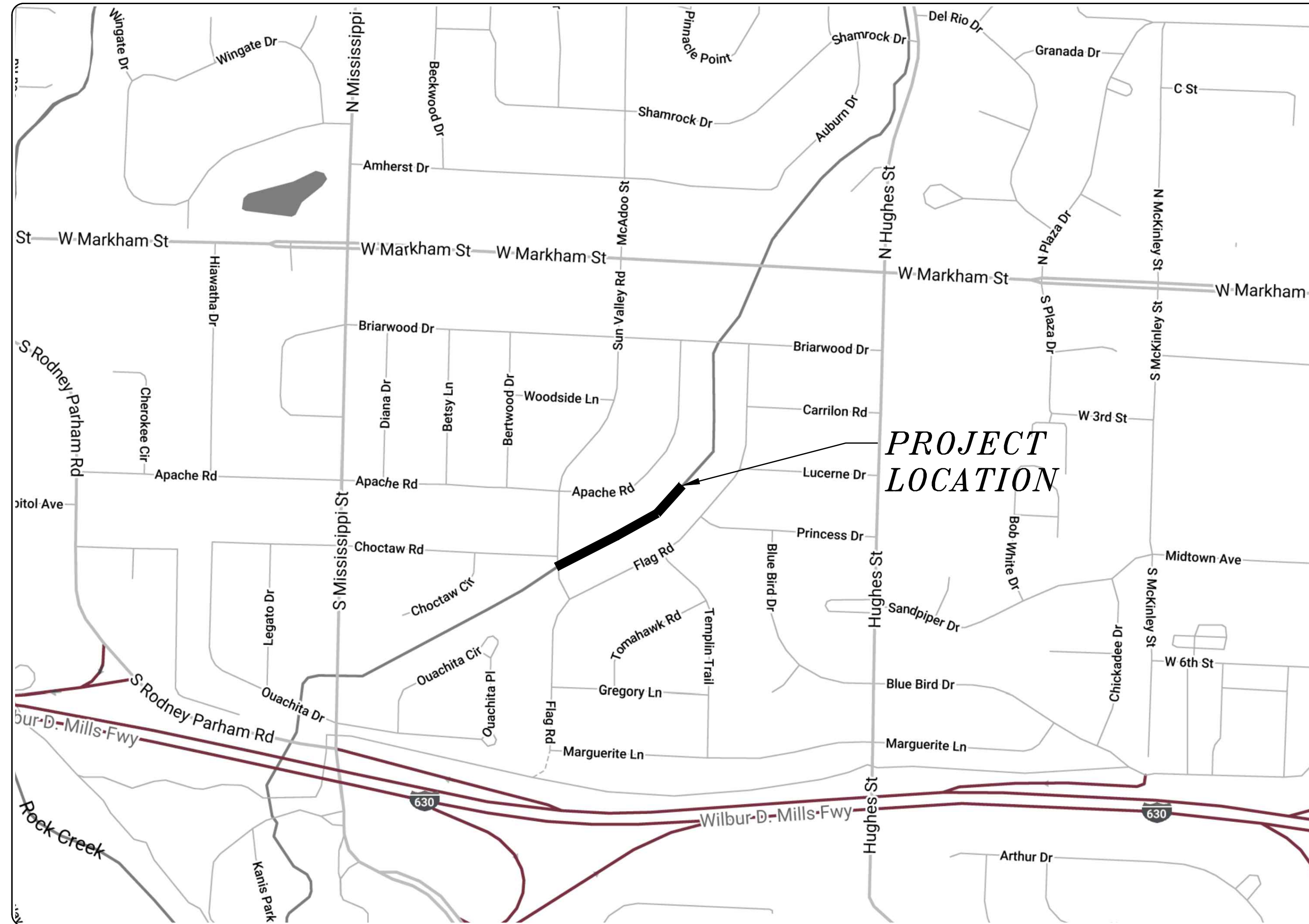
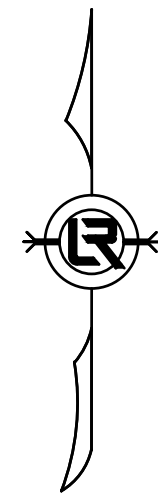


CLR PROJECT 03-17-DR-235 BRIARWOOD AREA DRAINAGE IMPROVEMENTS SUN VALLEY ROAD TO MARKHAM STREET - PHASE 1



PROJECT LOCATION - WARD 3



SHEET NO.	TITLE
C1	COVER SHEET
C2	QUANTITIES & DETAILS
C3-C5	SPECIAL DETAILS
C6	FIELD TIES/LAYOUT
C7	BRIARWOOD DITCH 1
C8	BRIARWOOD DITCH 2
C9	EROSION CONTROL
C10-C13	CROSS SECTIONS

60% SUBMITTAL



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Call before you dig.



4701 Northshore Drive
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2019-2021
BOND PROGRAM

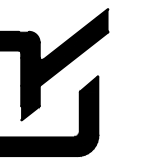
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CIVIL ENGINEERING
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LITTLE ROCK, ARKANSAS 72201

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CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS

COVER SHEET

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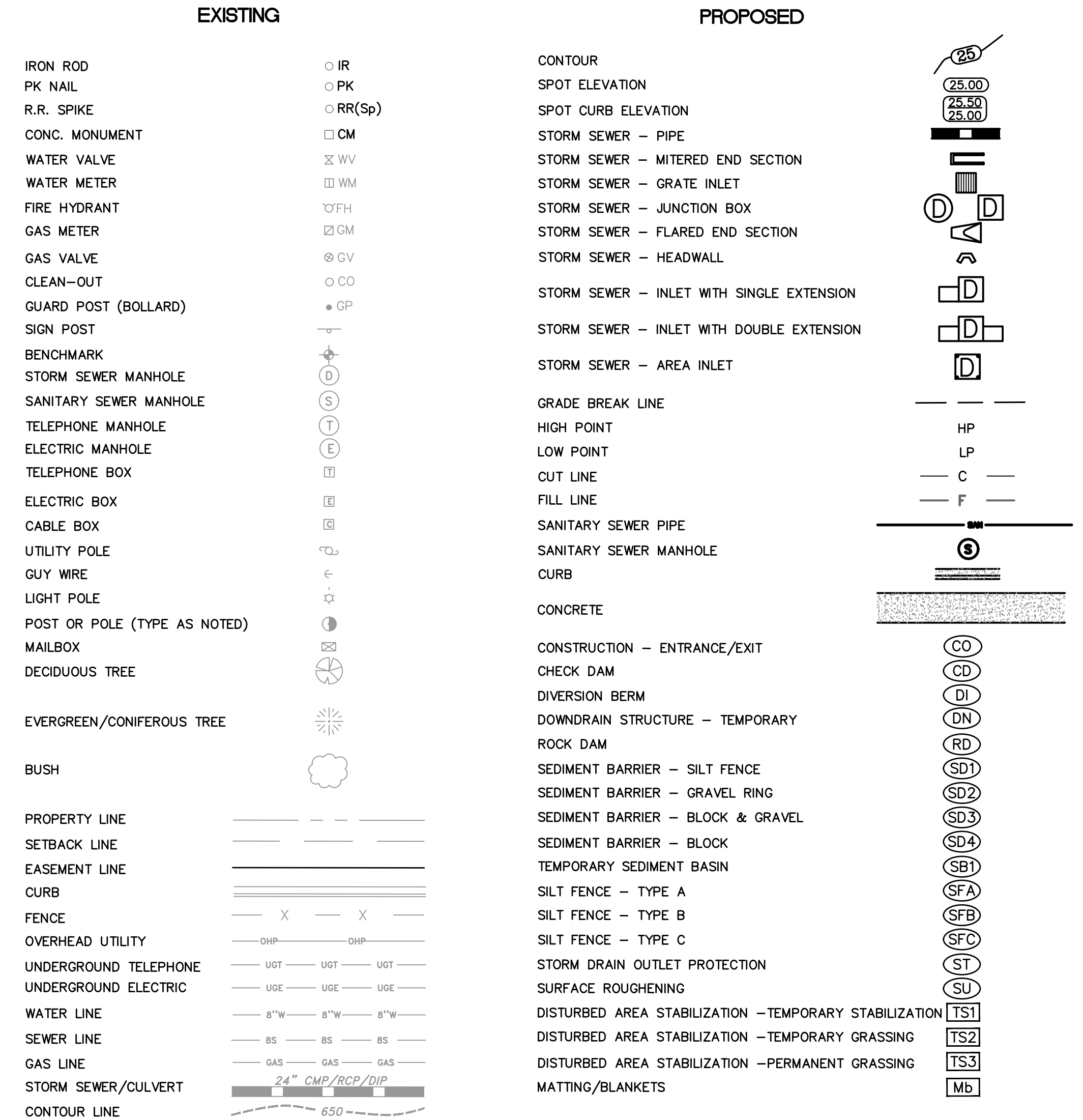


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PROJECT NO.	03-17-DR-235
SHEET NO.	C1

CLR PROJECT# 03-17-DR-235			
BRIARWOOD AREA DRAINAGE IMPROVEMENTS - PHASE 1			
January 10, 2020			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.40	TOPSOIL	CY	136
10.10	WING 6' EXTENSION	EA	3
10.14	WING 10' EXTENSION	EA	2
10.80	REBUILD INLET TOP	EA	3
11.10	REINFORCED CONCRETE	CY	552
11.11	CONCRETE PIPE COLLAR	EA	1
11.12	CONCRETE DITCH PAVING	SY	4
13.30C	STORM DRAIN PIPE, 30" RCP	LF	26
13.36C	STORM DRAIN PIPE, 36" RCP	LF	8
13.48C	STORM DRAIN PIPE, 48" RCP	LF	8
13.63	CONCRETE PLUG ON EXISTING STORM DRAIN	EA	2
14.01	SOLID SODDING, BERMUDA	SY	1,228
16.01	MAINTENANCE OF TRAFFIC	LS	1
18.02	REMOVE AND REPLACE BRICK WALL	LF	11
19.01	FINAL CLEANUP	LS	1
23.02	C-BALLAST	TON	1,013
24.05	ROCK DAM (RD)	CY	5
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA	3
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	3
25.04	FENCE CHAIN LINK (4')	LF	1,503
25.14	FENCE WOOD (4')	LF	64
25.16	FENCE WOOD (6')	LF	313
25.64	FENCE GATE, CHAIN LINK SINGLE SWING (4')	LF	5
26.10	TRENCH & EXCAVATION SAFETY	LS	1
606.36C	FLARED END SECTION 36" RCP	EA	1

GENERAL NOTES:

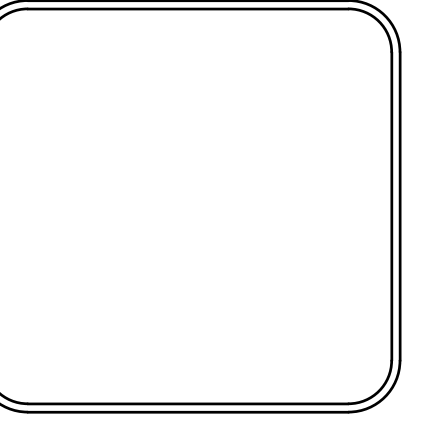
- ALL EXISTING STRUCTURES OR UTILITIES WITHIN THE LIMITS OF EXISTING OR PROPOSED EASEMENTS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.
- WHERE EXCAVATION ENDANGERS THE STABILITY OF A BUILDING, WALL, STREET, UTILITIES OR OTHER INSTALLATION, THE CONTRACTOR SHALL PROVIDE SUPPORT SYSTEMS SUCH AS SHORING, BRACING, OR UNDERPINNING TO ENSURE STABILITY OF SUCH STRUCTURE OR UTILITY. PRIOR TO CONSTRUCTION OF THE SHORING SYSTEM, THE CONTRACTOR SHALL SUBMIT THE DESIGN AND DETAILS OF THE THE SYSTEM TO THE ENGINEER FOR INFORMATIONAL AND RECORD PURPOSES. THE DESIGN AND DETAILS SHALL BE PREPARED AND/OR APPROVED BY A PROFESSIONAL ENGINEER REGISTERED IN ARKANSAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE TEMPORARY SHORING DURING THE ENTIRE PERIOD OF CONSTRUCTION.



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS
QUANTITIES & DETAILS

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
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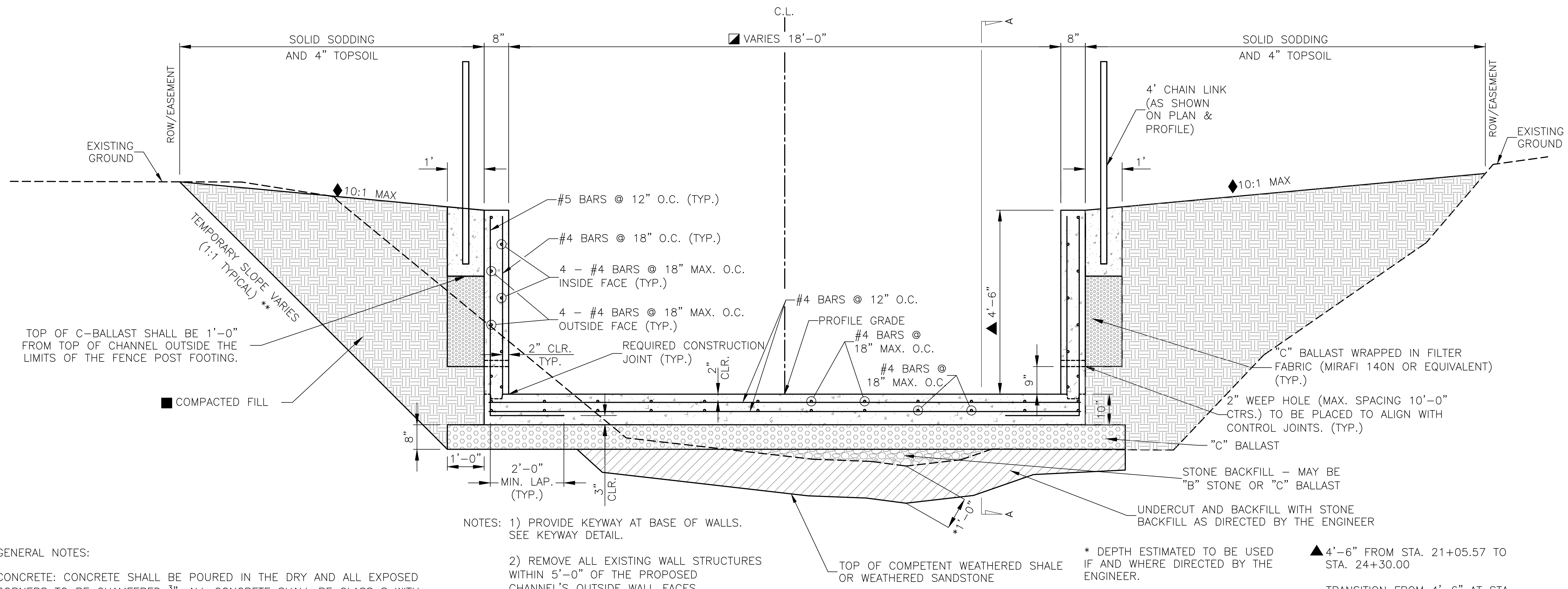
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SHEET NO.
C2

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS
SPECIAL DETAILS

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 CIVIL ENGINEERING
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 PROJECT NO.
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 SHEET NO.
C3



- NOTES: 1) PROVIDE KEYWAY AT BASE OF WALLS. SEE KEYWAY DETAIL.
 2) REMOVE ALL EXISTING WALL STRUCTURES WITHIN 5'-0" OF THE PROPOSED CHANNEL'S OUTSIDE WALL FACES.

GENERAL NOTES:

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.

LONGITUDINAL BARS ON THE INSIDE AND OUTSIDE FACE OF THE CONCRETE CHANNEL WALL SHALL BE STAGGERED.

LAP LENGTH FOR #4 BARS SHALL BE 1'-9" MINIMUM.

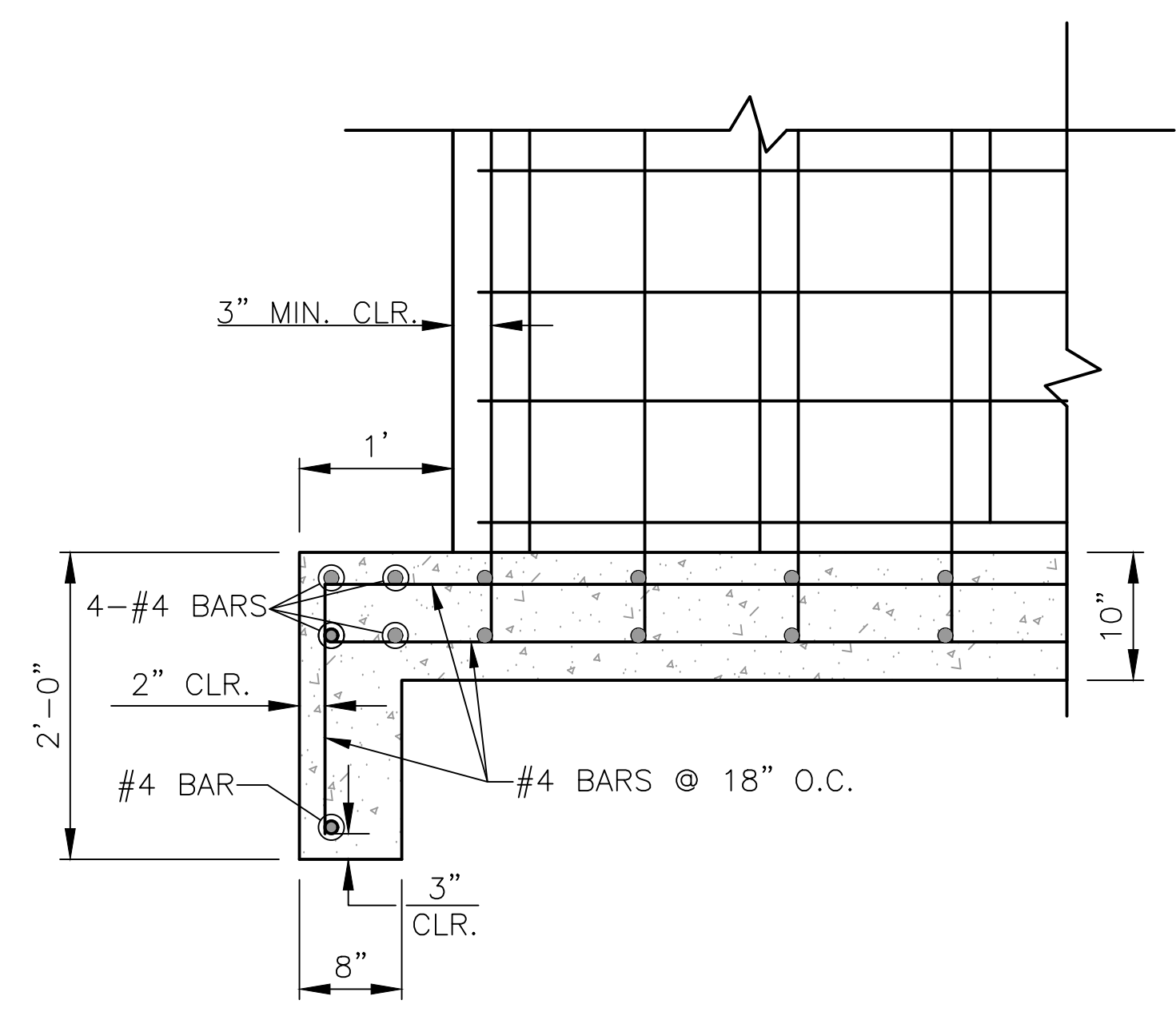
TOE WALL TO BE CONSTRUCTED FULL WIDTH AT THE INLET END OF THE CONCRETE CHANNEL AND TO BE POURED MONOLITHICALLY.

STONE BACKFILL MAY BE "B" STONE OR "C" BALLAST.

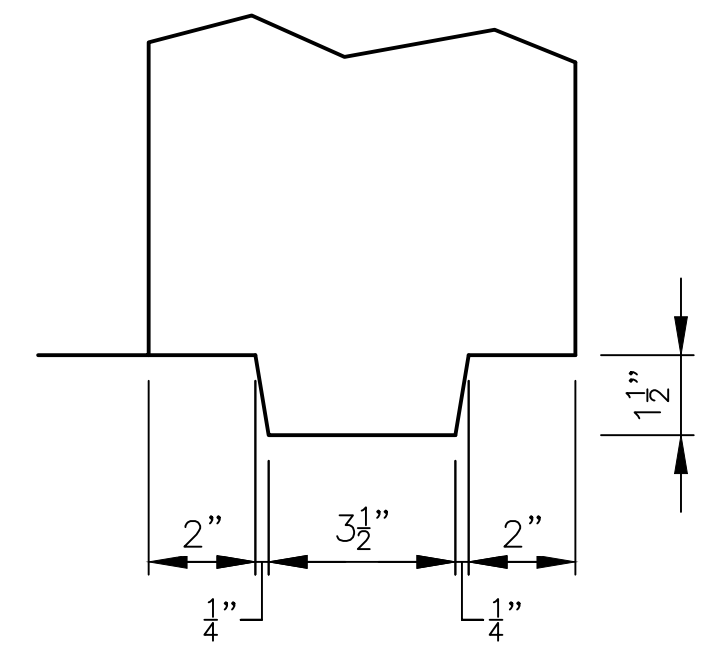
ALL EXCAVATION, ROCK EXCAVATION, UNDERCUT, BACKFILL, AND STONE BACKFILL REQUIRED FOR EXCAVATION OF THE CHANNEL SHALL NOT BE MEASURED FOR SEPARATE PAYMENT BUT WILL BE INCLUDED IN THE UNIT PRICE BID PER CY FOR "REINFORCED CONCRETE."

- * DEPTH ESTIMATED TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.
- ** SOIL TYPE SHALL BE DETERMINED IN THE FIELD AND THE APPROPRIATE OSHA SLOPING OR BENCHING METHOD SHALL BE SELECTED.
- ▲ 4'-6" FROM STA. 21+05.57 TO STA. 24+30.00
- TRANSITION FROM 4'-6" AT STA. 24+30.00 TO TO 5'-0" AT STA. 24+50.00.
- TRANSITION FROM 5'-0" AT STA. 25+70.00 TO TO 5'-6" AT STA. 25+90.00.
- TRANSITION FROM 23'-6.5" AT STA. 21+05.57 TO 18'-0" AT STA. 21+85.
- TRANSITION FROM 18'-0" AT STA. 24+70 TO 16'-0" AT STA. 25+10.
- TRANSITION FROM 16'-0" AT STA. 27+30 TO 18'-1.5" AT STA. 27+50. SEE PLAN AND PROFILE FOR LEFT AND RIGHT TRANSITIONS.
- ◆ 3:1 MAX SLOPE WHERE EXISTING STRUCTURES PREVENT FLATTER GRADES.
- COMPACTED FILL MATERIAL SHALL HAVE A MAXIMUM PI = 18 AND A MAXIMUM PARTICLE SIZE OF 1.5". THIS MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

REINFORCED CONCRETE CHANNEL TYPICAL SECTION

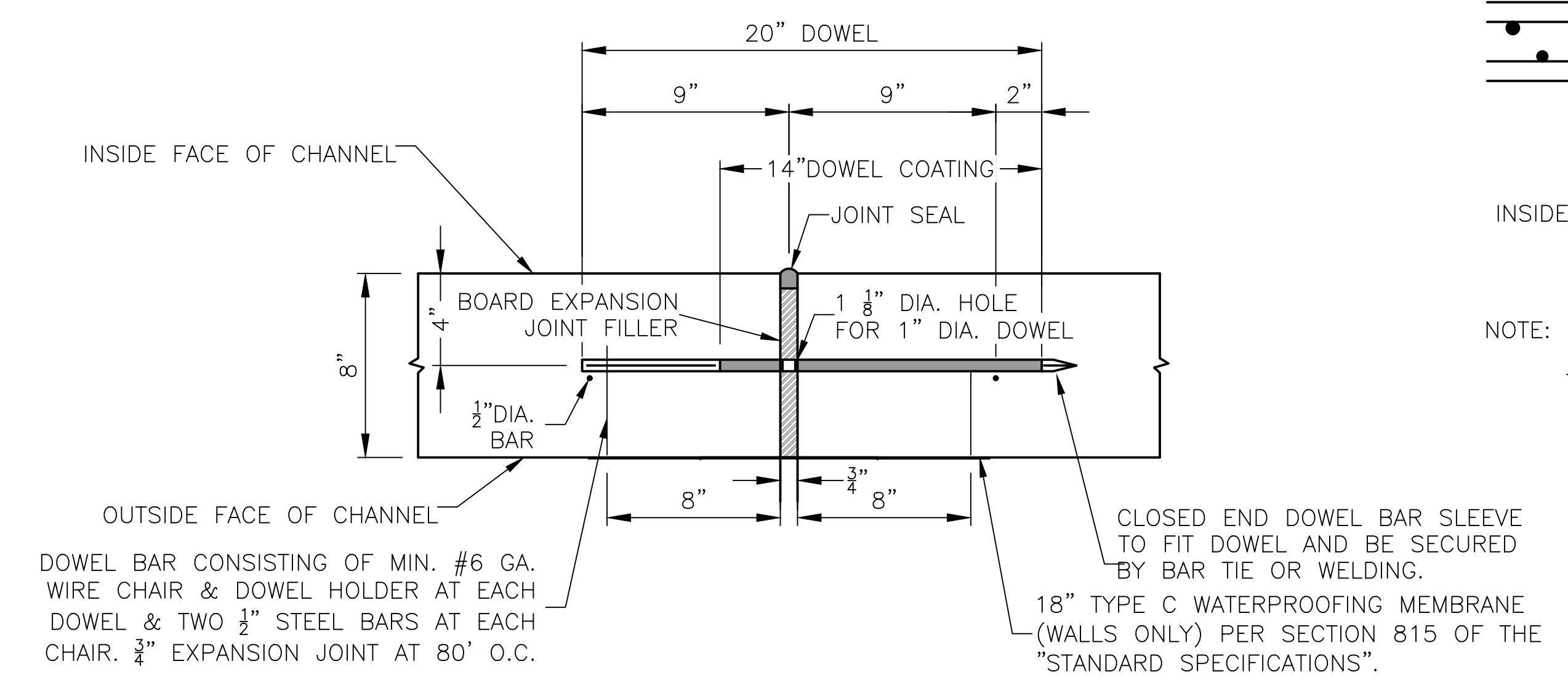


TOE WALL AT INLET
 OF CONCRETE CHANNEL
 SECTION A-A

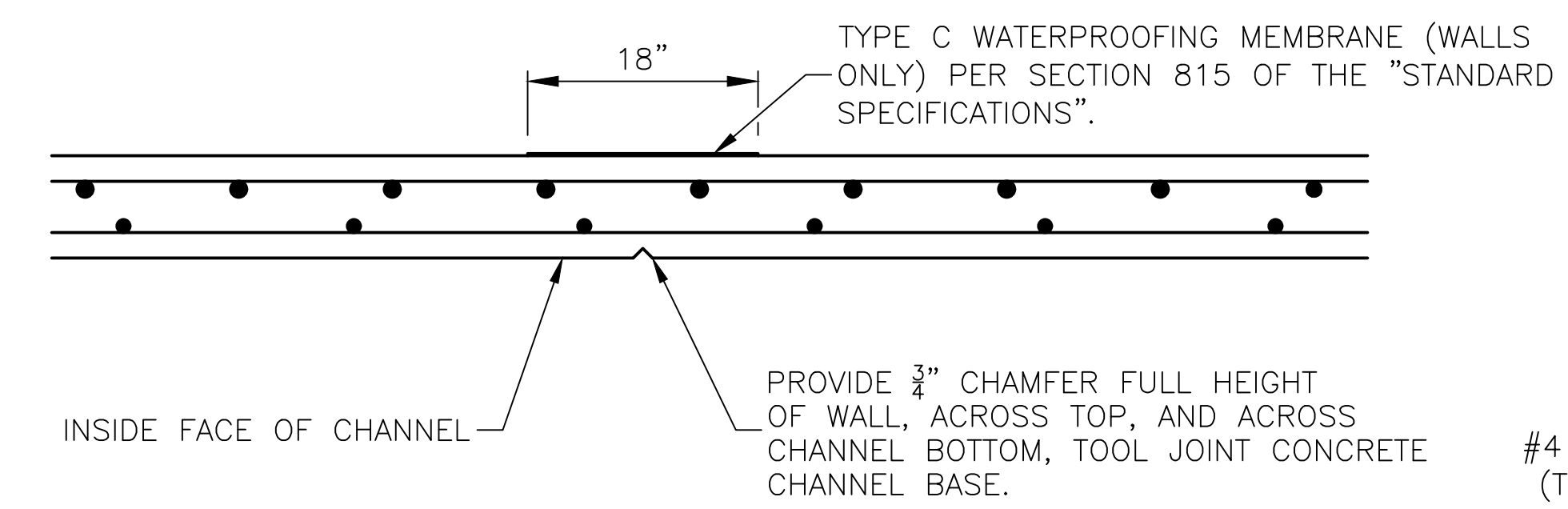


KEYWAY DETAIL

REVISIONS	DATE

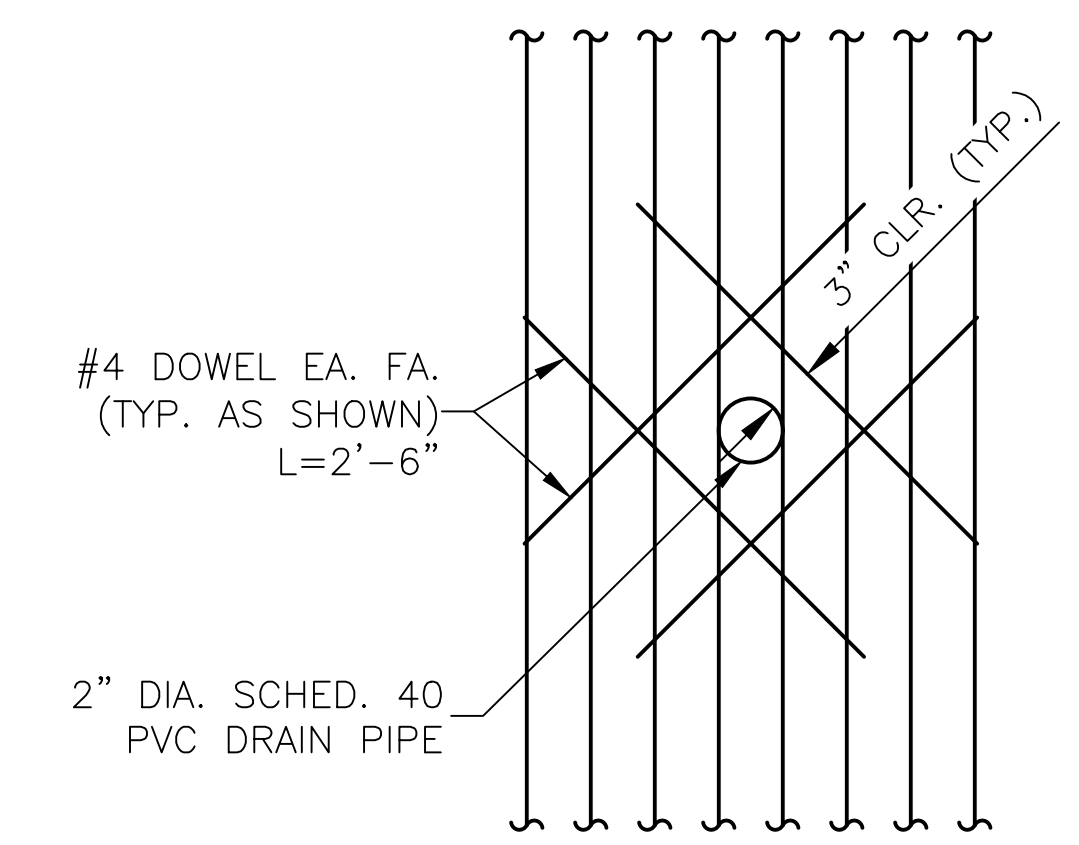


EXPANSION JOINT FOR CONCRETE CHANNEL
(DOWEL BARS TO BE 12" O.C.)

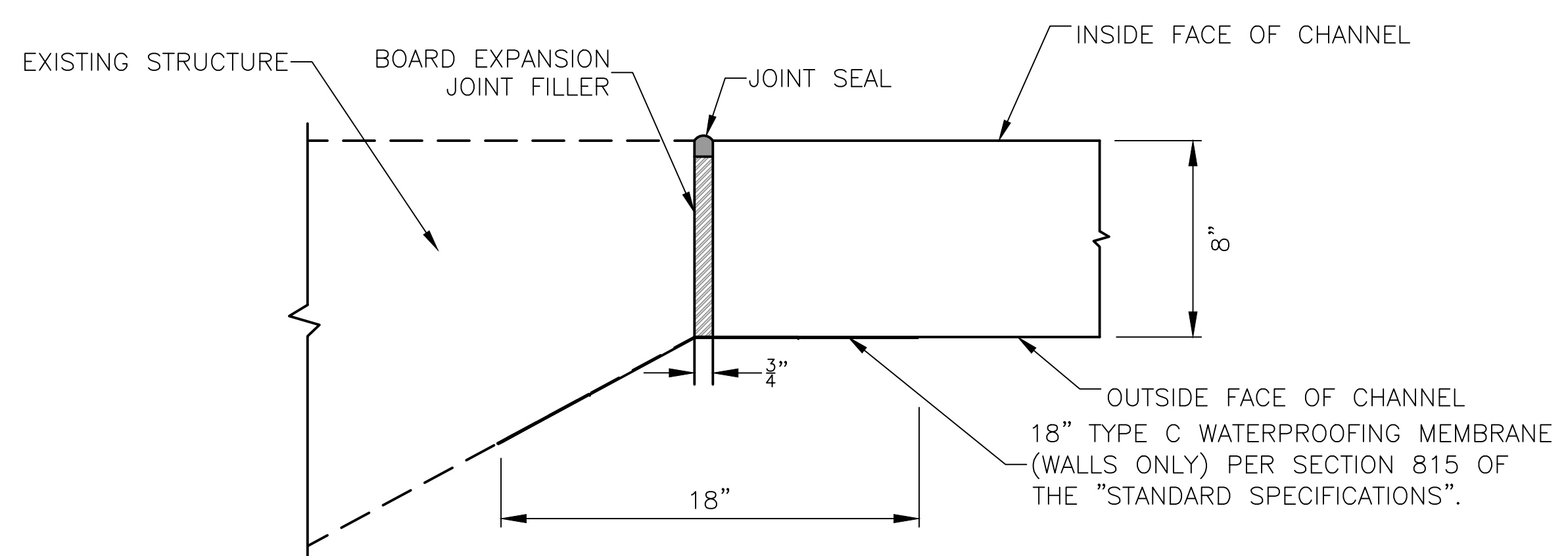


NOTE: 10'-0" MAX. SPACING BETWEEN CONTROL JOINTS. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.

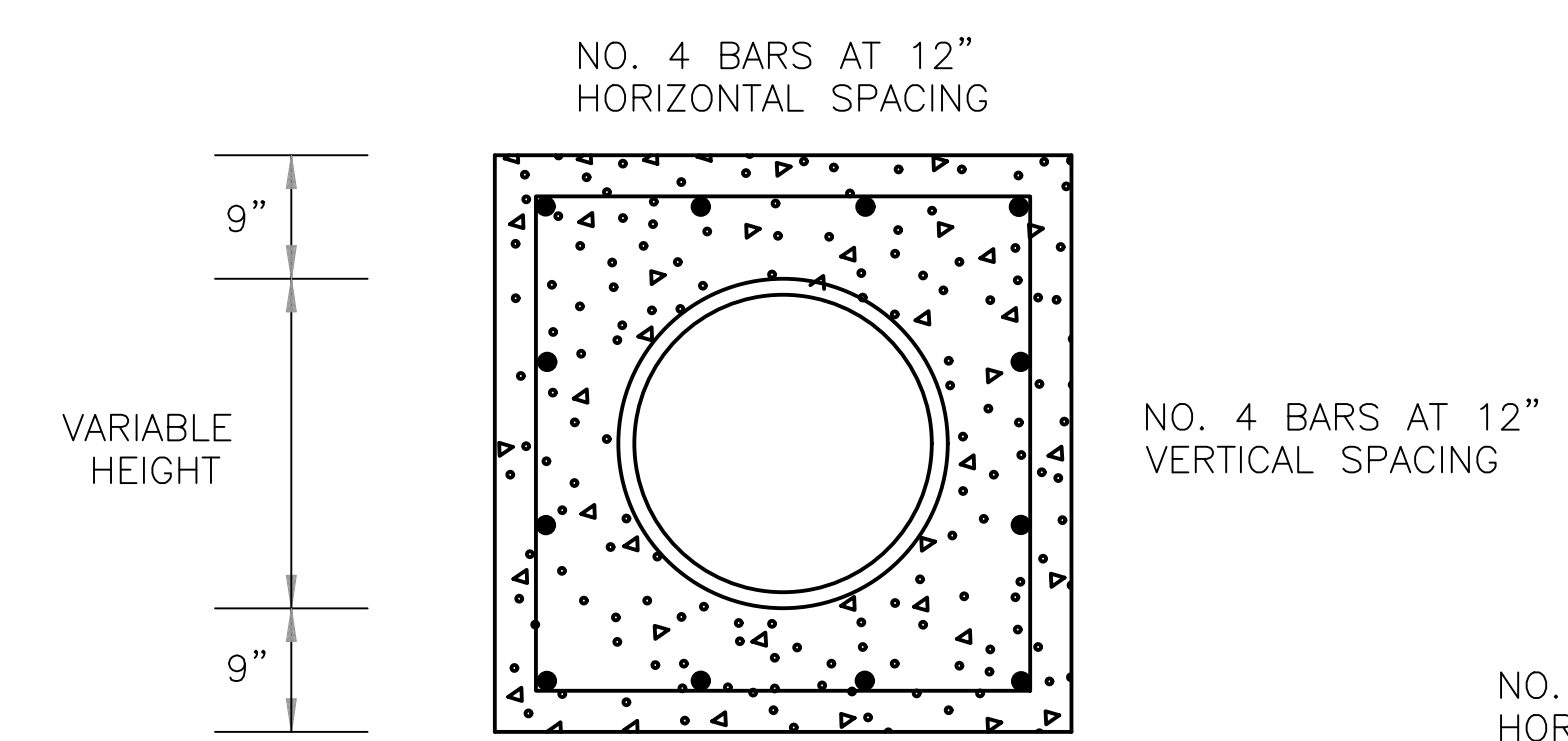
CONTROL JOINT FOR CONCRETE CHANNEL
(USED AT 10' O.C.)



DRAIN PIPE REINFORCING DETAIL FOR CONCRETE CHANNEL

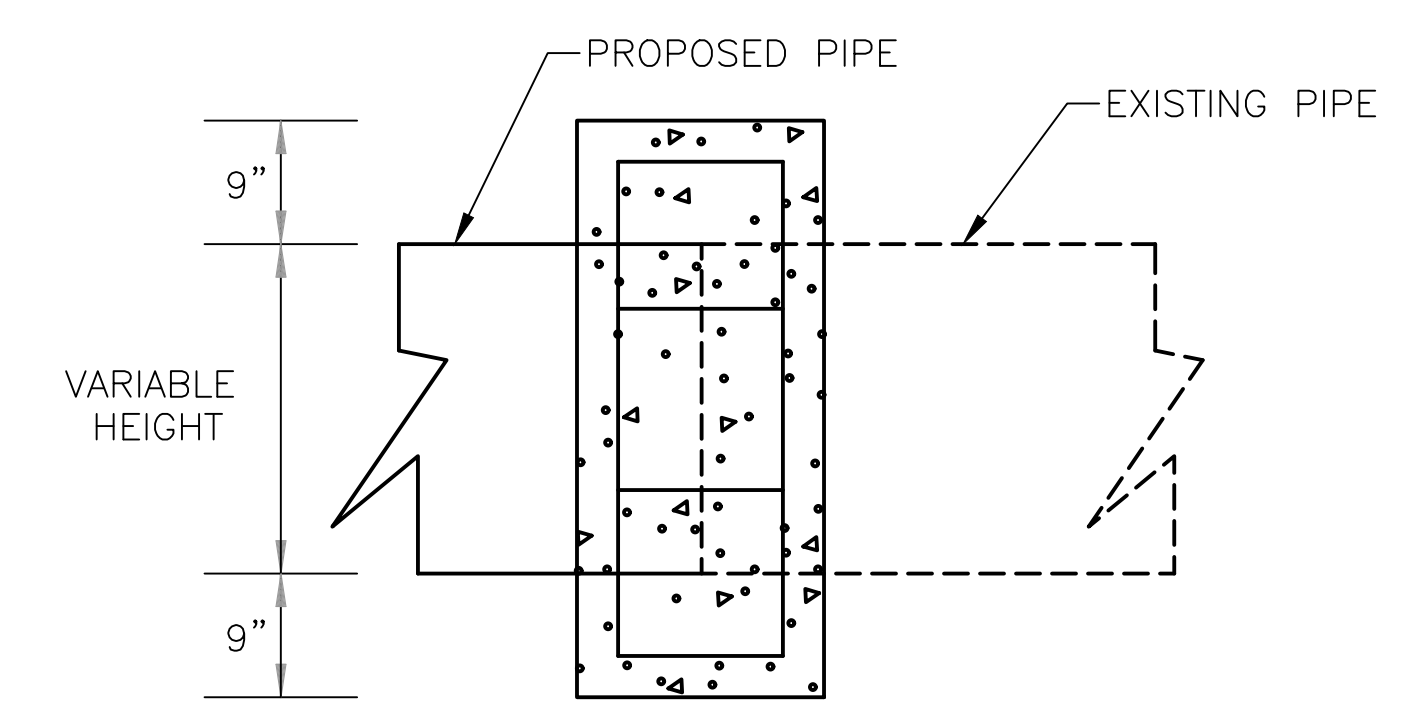


EXPANSION JOINT FOR CHANNEL CONNECTION TO EXISTING STRUCTURES
STA. 21+05.57 AND STA. 27+50.00

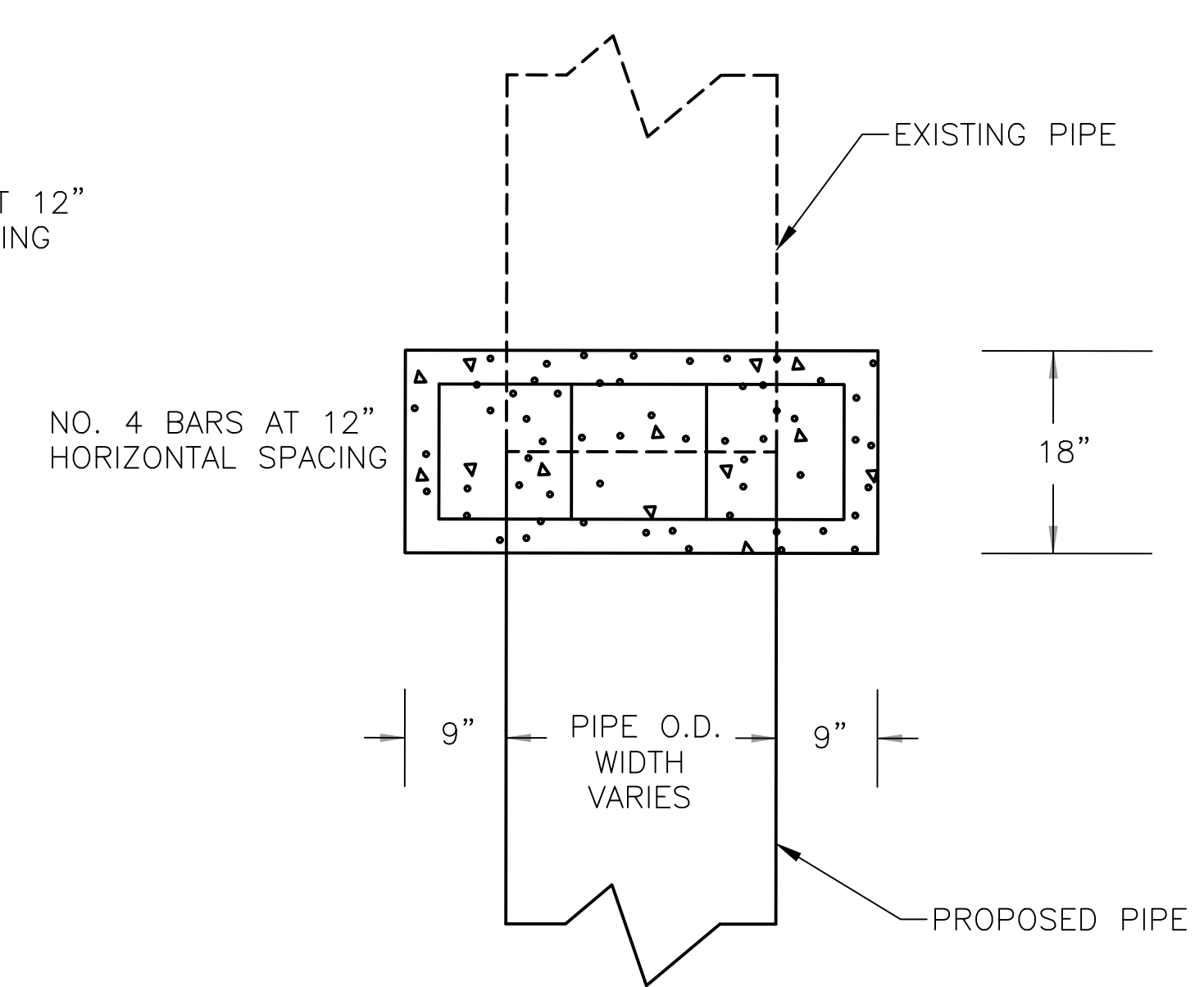


PIPE EXTENSION REINFORCED CONCRETE COLLAR DETAIL

NOTE: REINFORCING STEEL SHALL HAVE MIN. 3" COVER.



SIDE VIEW

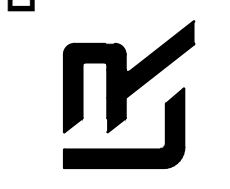


TOP VIEW

CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS

SPECIAL DETAILS

DEPARTMENT OF PUBLIC WORKS
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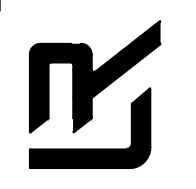


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SHEET NO. C4

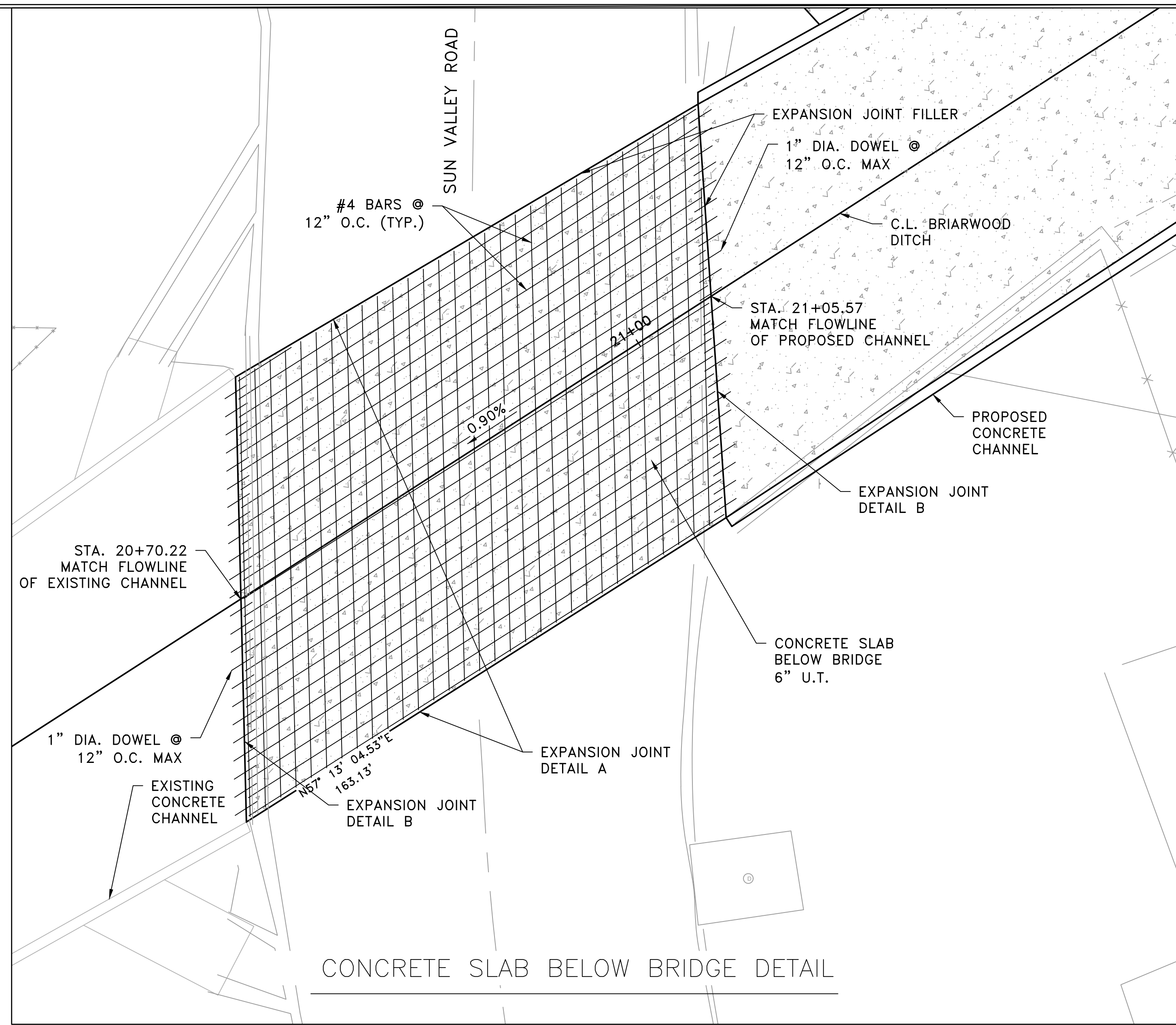
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CITY OF LITTLE ROCK, ARKANSAS
 BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 SPECIAL DETAILS

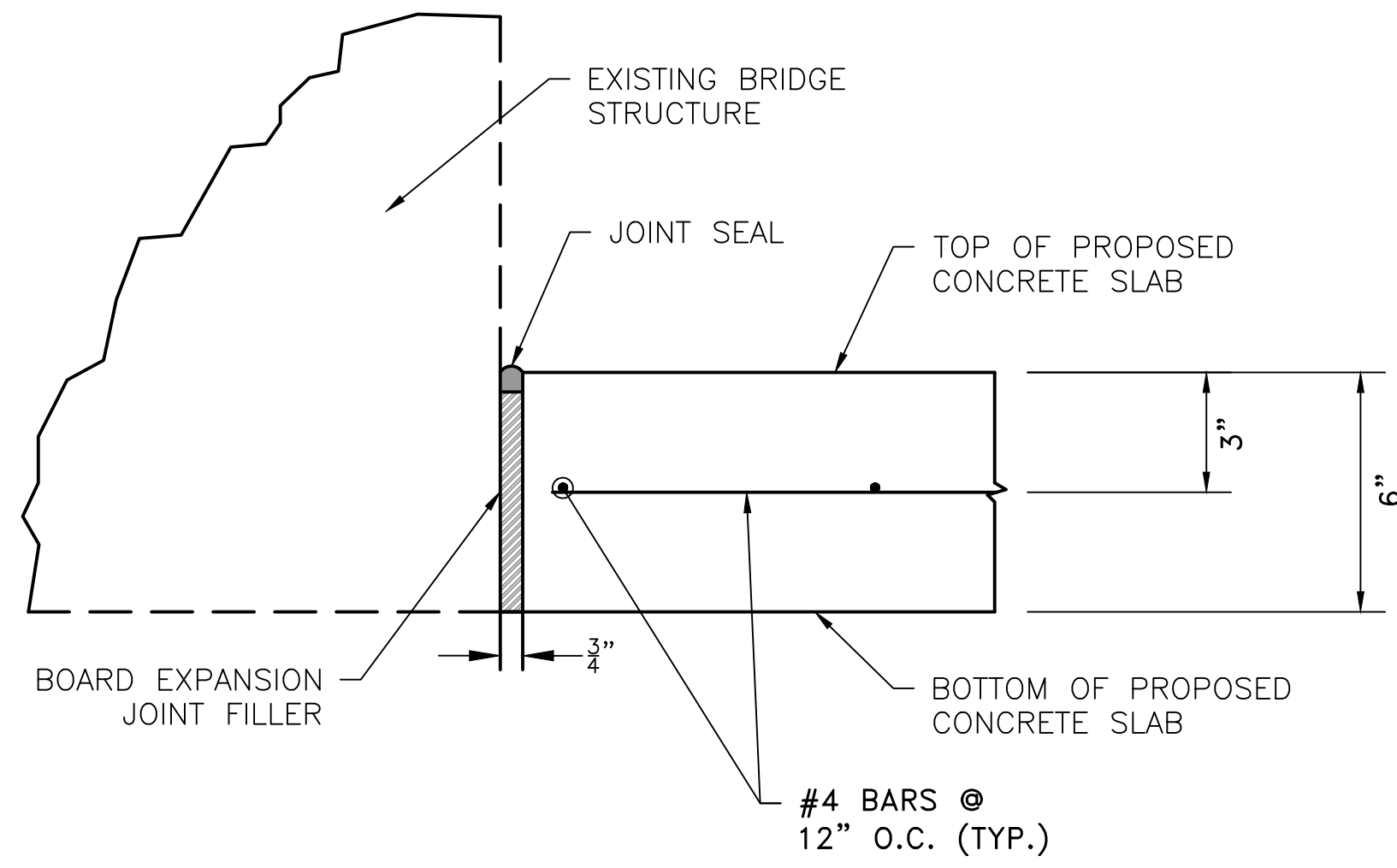
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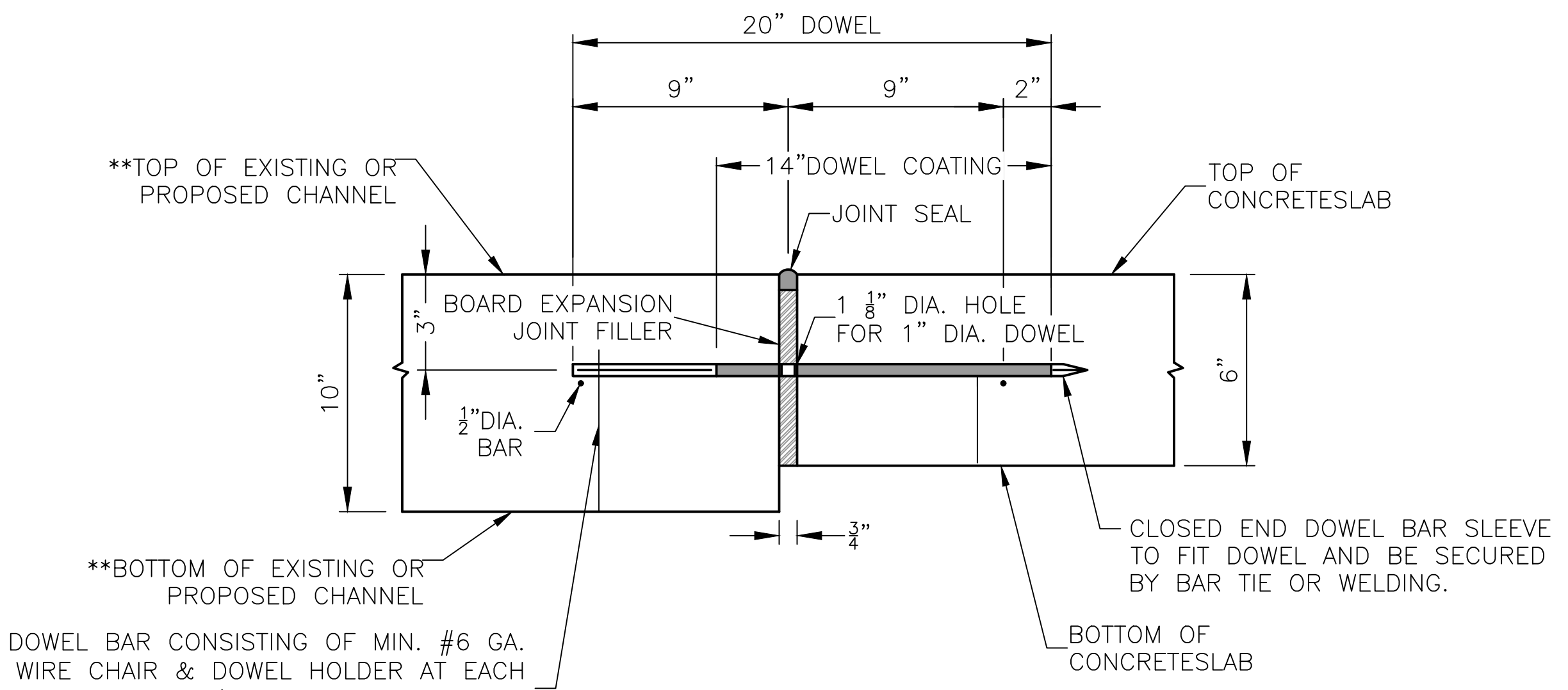
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PROJECT NO. 03-17-DR-235
SHEET NO. C5



GENERAL NOTES:
 CONCRETE: CONCRETE SHALL BE POURED IN THE DRY. 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.
 LAP LENGTH FOR # 4 BARS SHALL BE 1'-9" MINIMUM
 ALL MATERIALS AND WORK REQUIRED TO CONSTRUCT THE CONCRETE SLAB BELOW THE BRIDGE SHALL BE PAID AT THE UNIT PRICE BID PER CY FOR "REINFORCED CONCRETE".



EXPANSION JOINT FOR CONCRETE SLAB
 DETAIL A



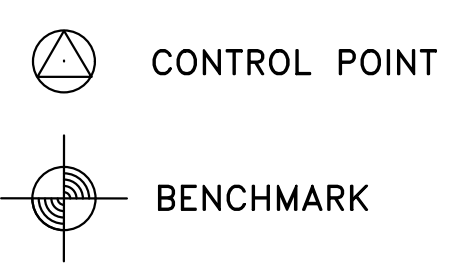
EXPANSION JOINT FOR CONCRETE SLAB
 DETAIL B

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

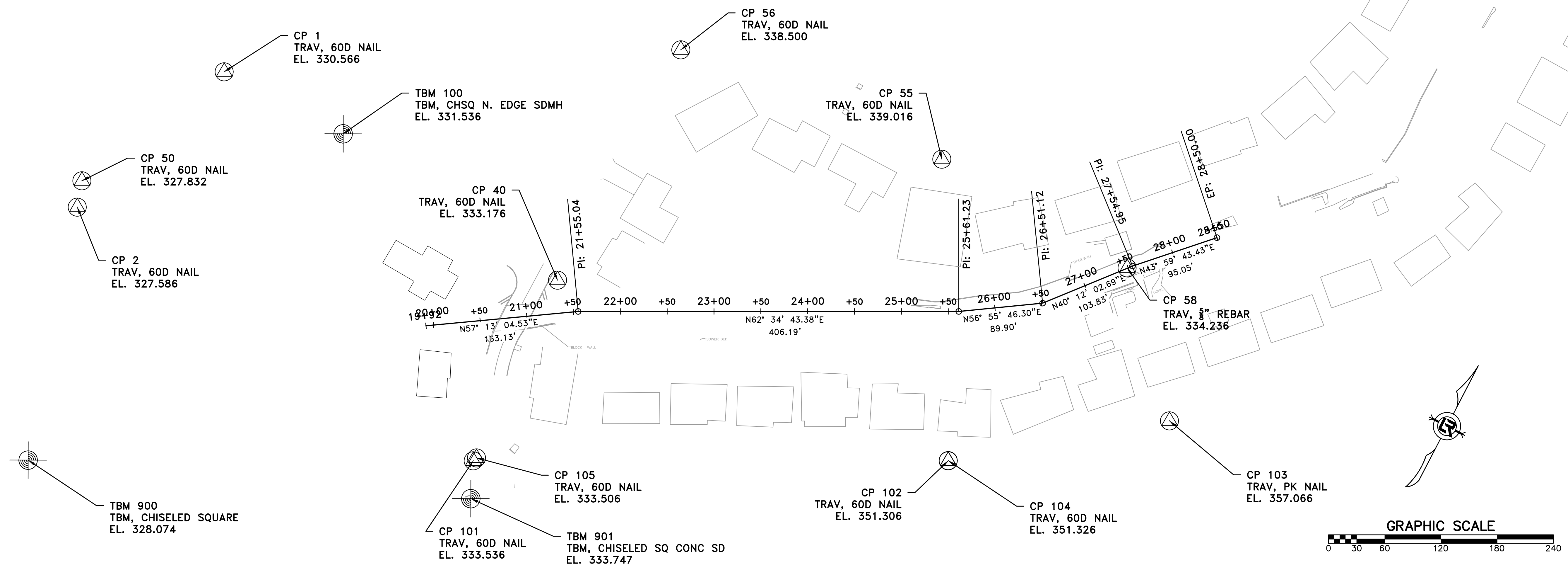
REVISIONS	DATE

SURVEY BENCHMARKS				
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	TRAV, 60D NAIL	151437.3670	1205160.1585	330.566
2	TRAV, 60D NAIL	151237.0650	1205087.3919	327.586
40	TRAV, 60D NAIL	151404.0112	1205578.2806	333.176
50	TRAV, 60D NAIL	151264.2947	1205078.8691	327.832
55	TRAV, 60D NAIL	151707.4306	1205882.8955	339.016
56	TRAV, 60D NAIL	151682.6447	1205581.9351	338.500
58	TRAV, 8" REBAR	151695.5964	1206111.8016	334.236
100	TBM, CHSQ N. EDGE SDMH	151437.2247	1205303.2972	331.536
101	TRAV, 60D NAIL	151191.6488	1205587.0883	333.536
102	TRAV, 60D NAIL	151424.9792	1206037.0791	351.306
103	TRAV, PK NAIL	151571.5627	1206227.1034	357.066
104	TRAV, 60D NAIL	151425.1666	1206037.0421	351.326
105	TRAV, 60D NAIL	151195.9842	1205588.7409	333.506
900	TBM, CHISELED SQUARE	150973.5260	1205165.1025	328.074
901	TBM, CHISELED SQ CONC SD	151154.6410	1205603.3774	333.747

C.L. BRIARWOOD DITCH COORDINATES			
STA.	TYPE	NORTHING	EASTING
19+91.91	BP	151296.2536	1205476.0045
21+55.04	PI	151384.5805	1205613.1552
25+61.23	PI	151571.6426	1205973.7067
26+51.12	PI	151620.6970	1206049.0408
27+54.95	PI	151700.0017	1206116.0603
28+50.00	EP	151768.3768	1206182.0787



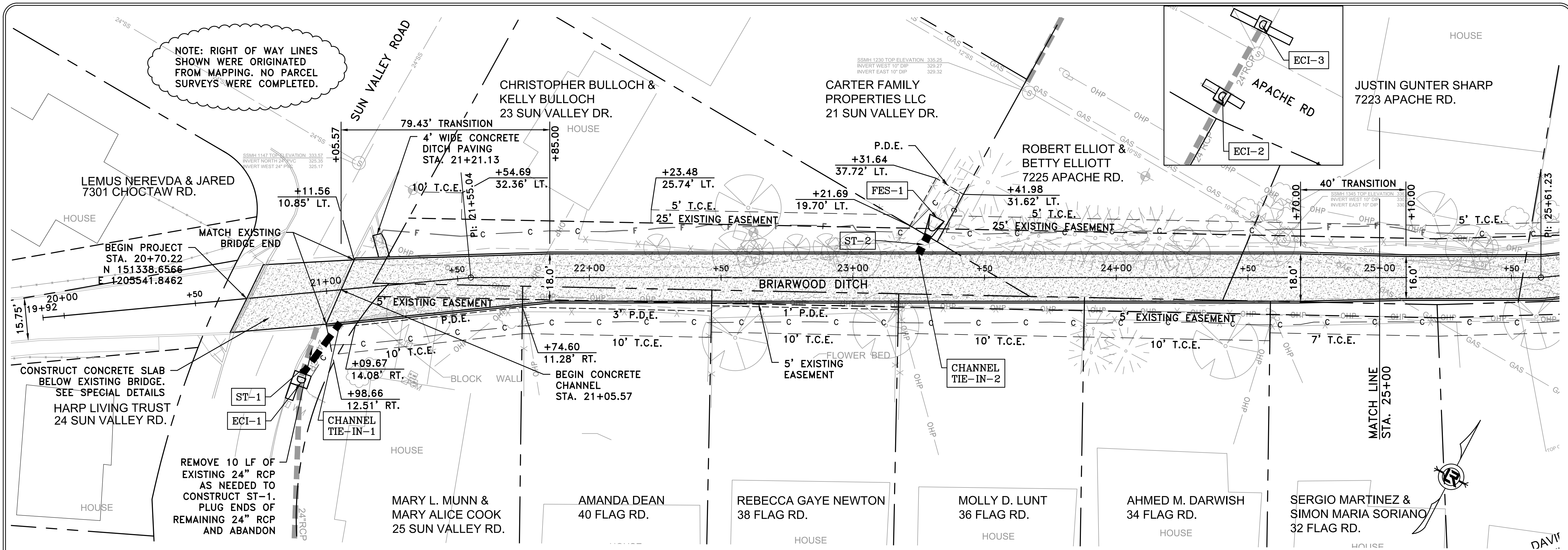
Basis of Bearings:
 All Coordinates are Grid.
 For Stakeout use CF = 1.00000000
 Control Points 1 and 2 were established as determined by GPS RTK readings on January 19, 2017 based upon the PAGIS Dial-Up System.
 Original Grid Coordinates based on Arkansas Grid North Zone 0301
 Horizontal Datum: NAD 83
 Vertical Datum: NAVD 88
 Elevations for project based upon GPS RTK readings to Control Point 1.
 Convergence Angle at Control Point 1 is 00°12'27.30836" Left.
 Point 1 Latitude = N 34°44'55.86419"
 Point 1 Longitude = W 092°21'24.25757"
 Job Location is near the intersection of Choctaw Road and Sun Valley Road and the intersection of Sun Valley Road and Flag Road in Little Rock, Pulaski County, Arkansas.



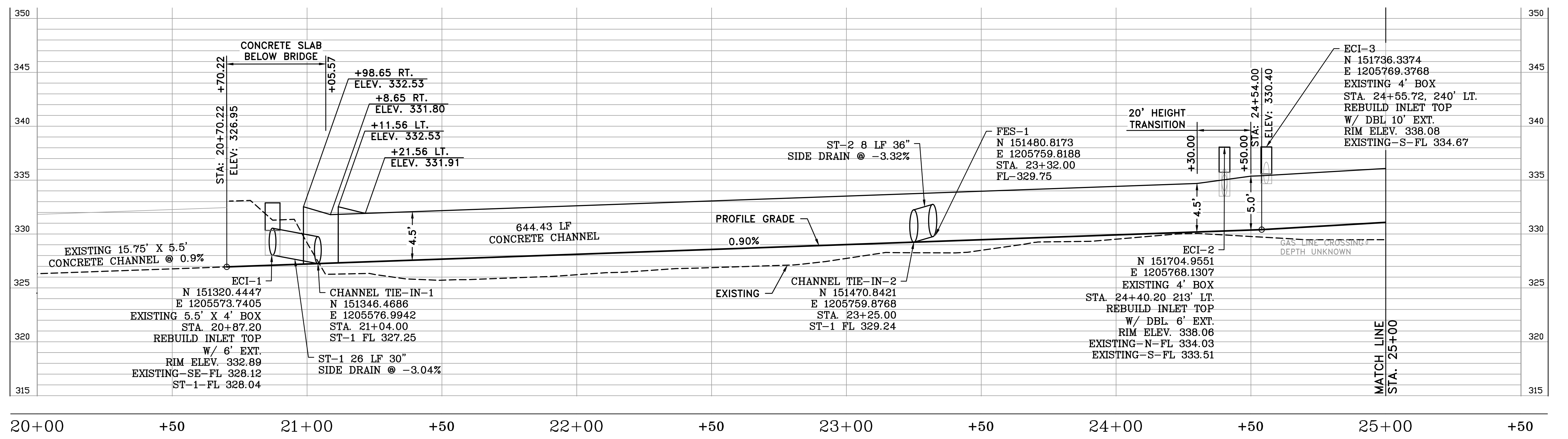
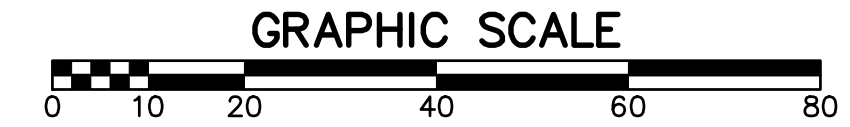
CITY OF LITTLE ROCK, ARKANSAS
 BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 FIELD TIES/LAYOUT SHEET

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 03-17-DR-235
 SHEET NO.
 C6



NOTE: RIGHT OF WAY LINES SHOWN WERE ORIGINATED FROM MAPPING. NO PARCEL SURVEYS WERE COMPLETED.

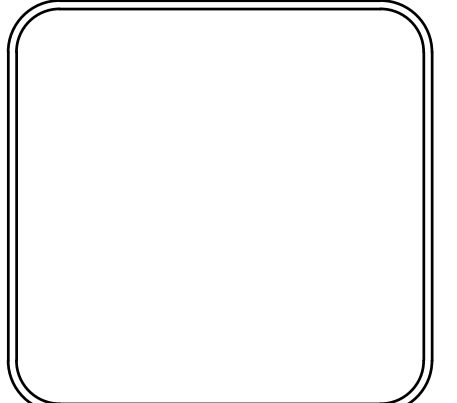


ALIGNMENT - BRIARWOOD DITCH

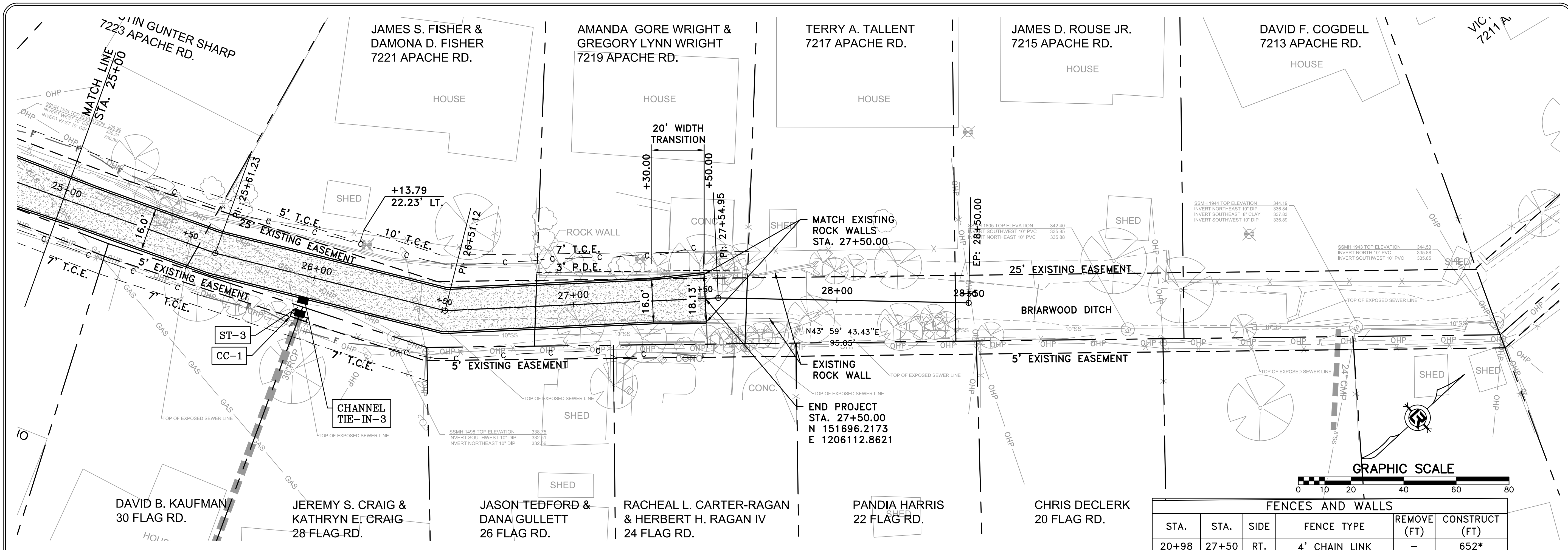
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CITY OF LITTLE ROCK, ARKANSAS
 BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 BRIARWOOD DITCH 1
 PLAN & PROFILE - STA. 20+70 TO 25+00

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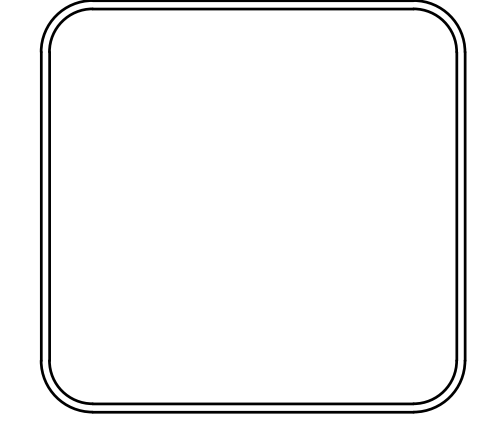
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 DATE
 1-10-2020
 SCALE
 H: 1"=20'
 V: 1"=5'
 PROJECT NO.
 03-17-DR-235
 SHEET NO.
 C7



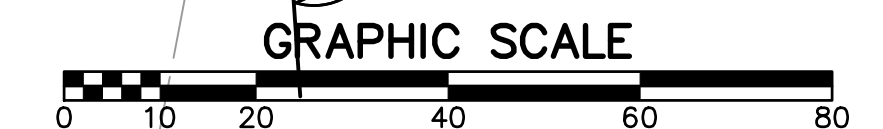
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CITY OF LITTLE ROCK, ARKANSAS
 BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 BRIARWOOD DITCH 2
 PLAN & PROFILE - STA. 25+00 TO 27+50

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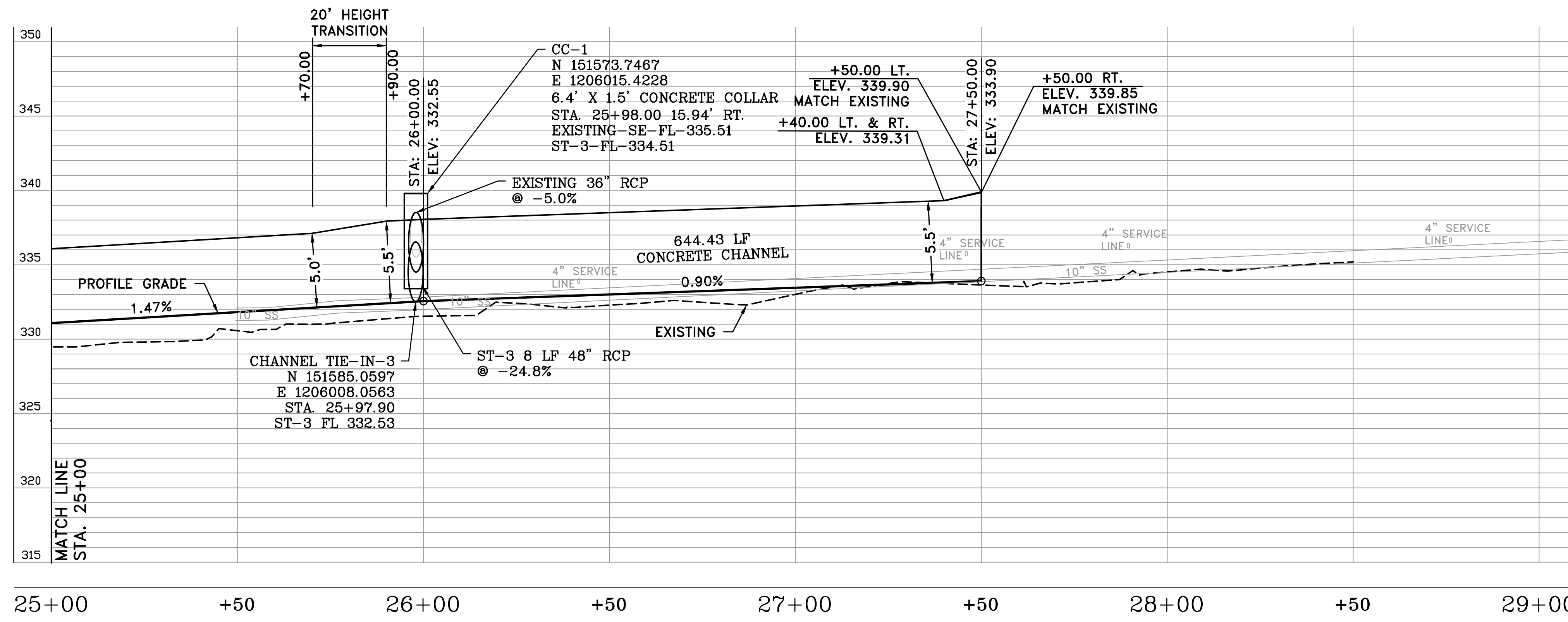


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H: 1"=20'
V: 1"=5'
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03-17-DR-235
SHEET NO.
C8



FENCES AND WALLS					
STA.	STA.	SIDE	FENCE TYPE	REMOVE (FT)	CONSTRUCT (FT)
20+98	27+50	RT.	4' CHAIN LINK	-	652*
21+02	21+74	RT.	BRICK WALL	13	11
21+02	21+74	RT.	STONE WALL	31	-
21+02	21+74	RT.	6' WOOD FENCE	55	57
21+12	27+50	LT.	4' CHAIN LINK	-	638*
21+40	23+15	LT.	4' CHAIN LINK	136	38**
21+74	22+46	RT.	6' WOOD FENCE	9	11
21+74	22+46	RT.	4' CHAIN LINK	79	23**
22+46	23+17	RT.	6' WOOD FENCE	85	93
23+15	23+37	LT.	6' WOOD FENCE	21	21
23+17	23+88	RT.	4' CHAIN LINK	89	24**
23+37	24+53	LT.	4' CHAIN LINK	9	11**
23+88	24+58	RT.	4' CHAIN LINK	76	17**
23+88	24+58	RT.	6' WOOD FENCE	71	71
24+53	25+58	LT.	4' CHAIN LINK	108	-
24+53	25+58	LT.	ROCK WALL	51	-
24+58	25+22	RT.	4' WOOD FENCE	64	64
25+22	25+97	RT.	6' WOOD FENCE	7	7
25+22	25+97	RT.	4' CHAIN LINK	6	13**
25+97	26+51	RT.	4' CHAIN LINK	65	33**
25+58	26+87	LT.	4' CHAIN LINK	115	33**
25+58	26+87	LT.	ROCK WALL	125	-
26+51	27+14	RT.	4' CHAIN LINK	77	11**
26+87	27+66	LT.	4' CHAIN LINK	69	10**
26+87	27+66	LT.	4' CHAIN LINK GATE	5	5
26+87	27+66	LT.	ROCK WALL	68	-
27+14	27+50	RT.	6' WOOD FENCE	40	53
27+14	27+50	RT.	STONE WALL	78	-

*CONSTRUCT ADJACENT TO CHANNEL WALL ON LT. AND RT.
 **FENCES SHALL BE CONSTRUCTED ALONG EXISTING/PROPOSED PROPERTY LINES IN LOCATIONS WHERE THE EXISTING FENCE IS REMOVED.
 NOTE: WOOD FENCE SHOWN IN THE ABOVE TABLE SHALL BE CONSTRUCTED ADJACENT TO NEW 4' CHAIN LINK FENCE.

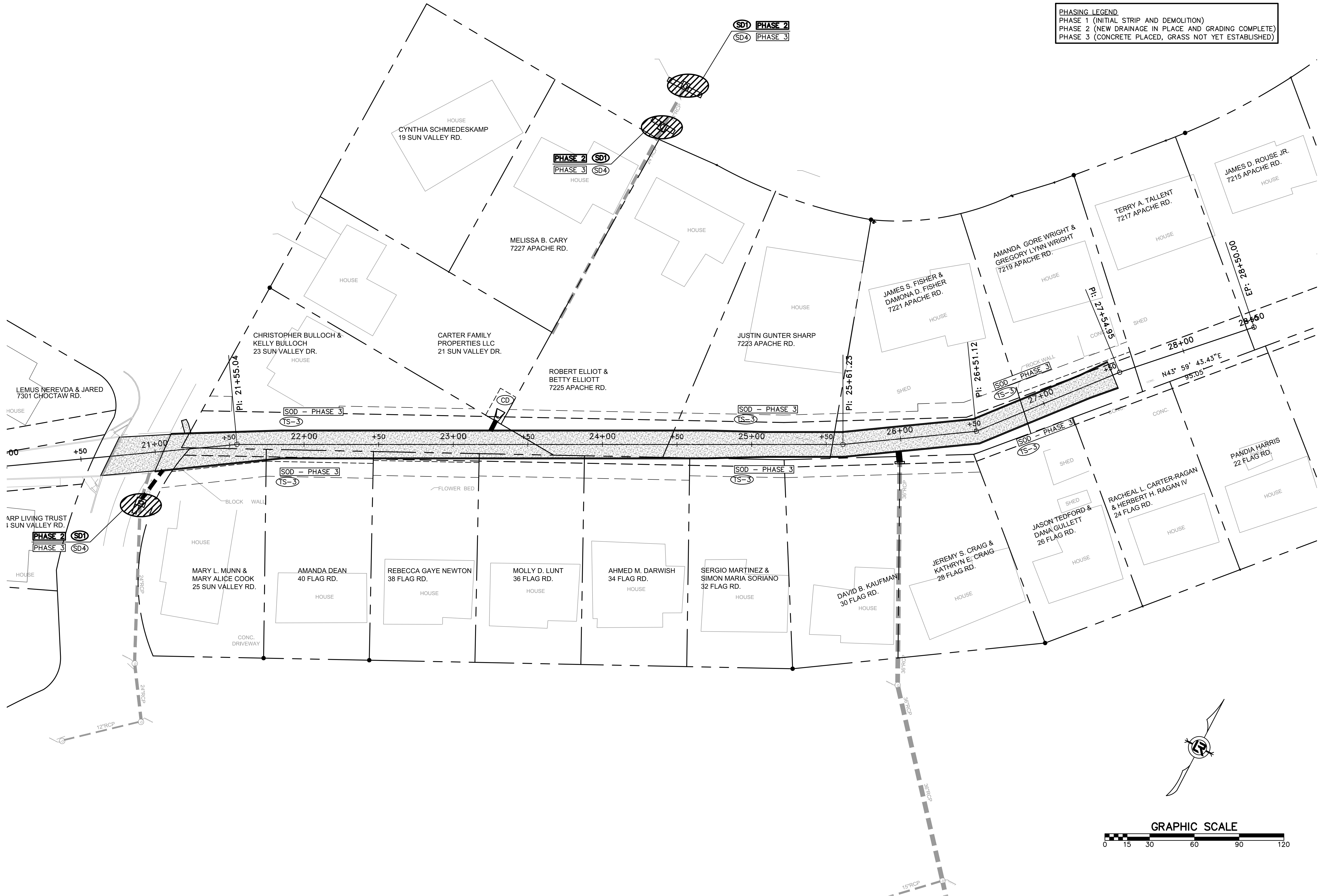


25+00	+50	26+00	+50	27+00	+50	28+00	+50	29+00	+50	30+00	+50
329.5	330.6	331.5	332.3	333.0	333.6	334.5	335.2				
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ALIGNMENT - BRIARWOOD DITCH

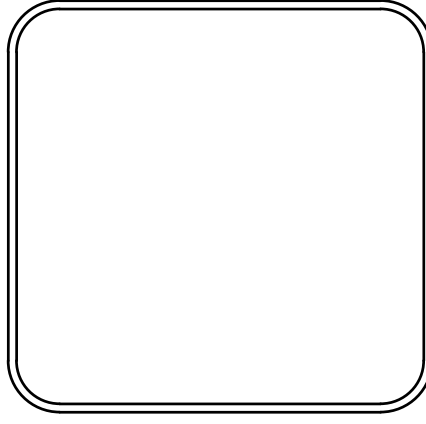
REVISIONS	DATE

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)



CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 EROSION CONTROL

DEPARTMENT OF PUBLIC WORKS
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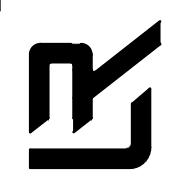


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 AMW
DESIGNED
 AMW
CHECKED
 MJM
DATE
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SCALE
 1"=30'
PROJECT NO.
 03-17-DR-235
SHEET NO.
 C9

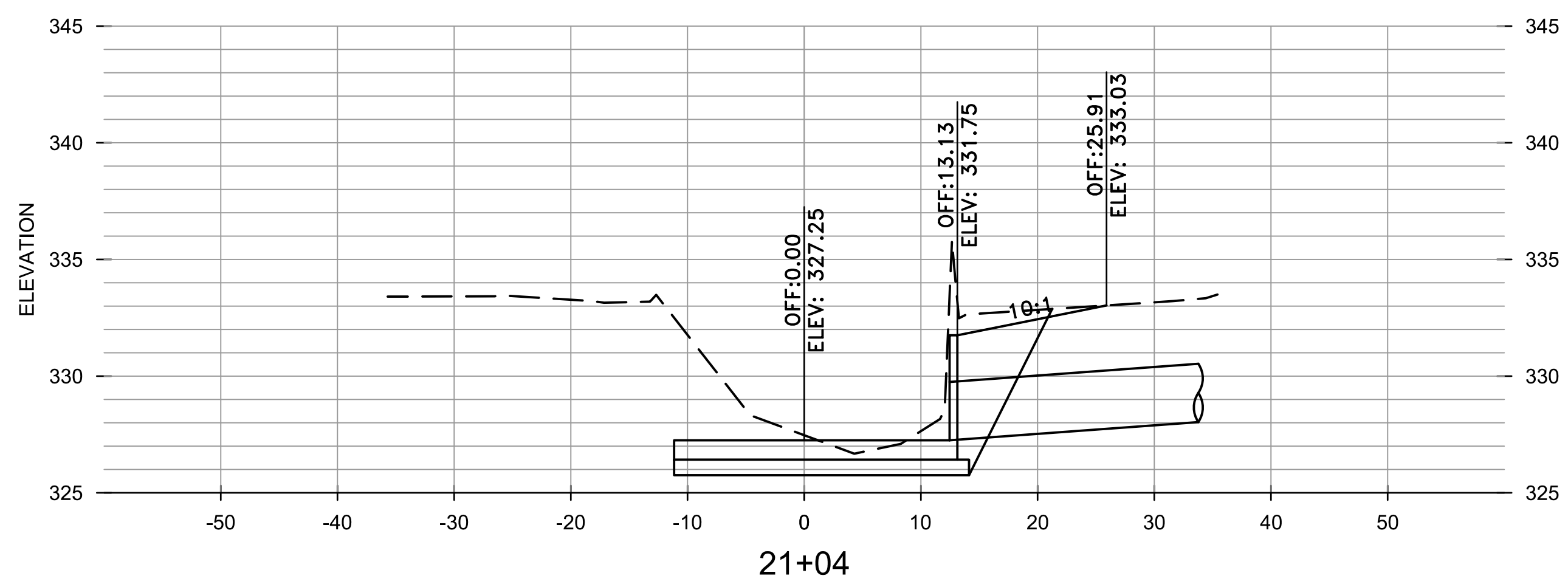
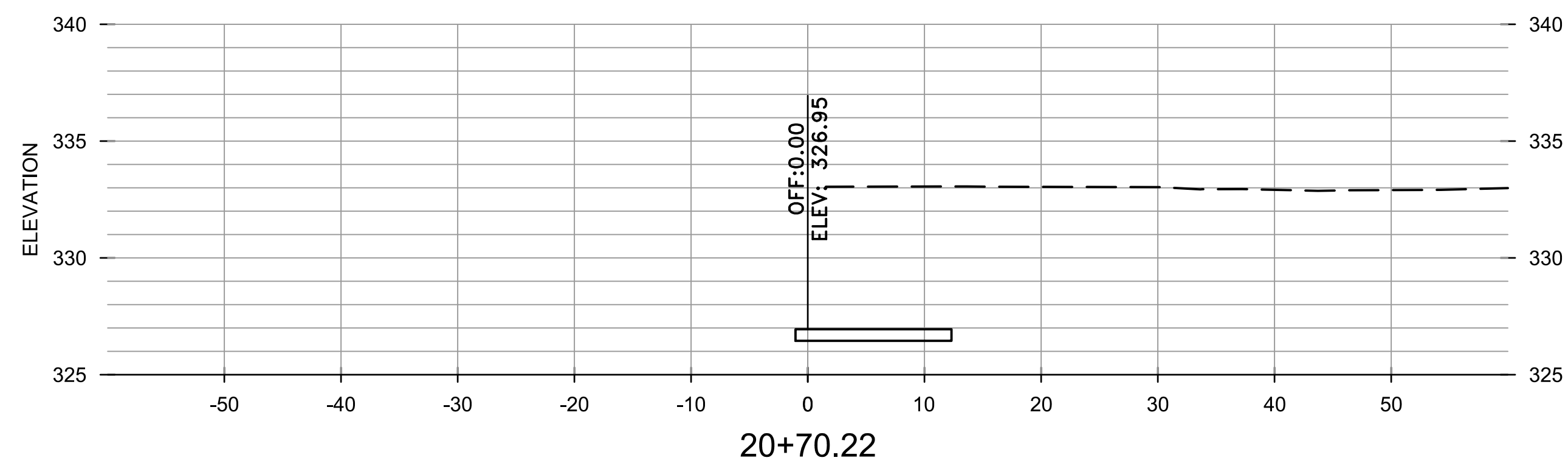
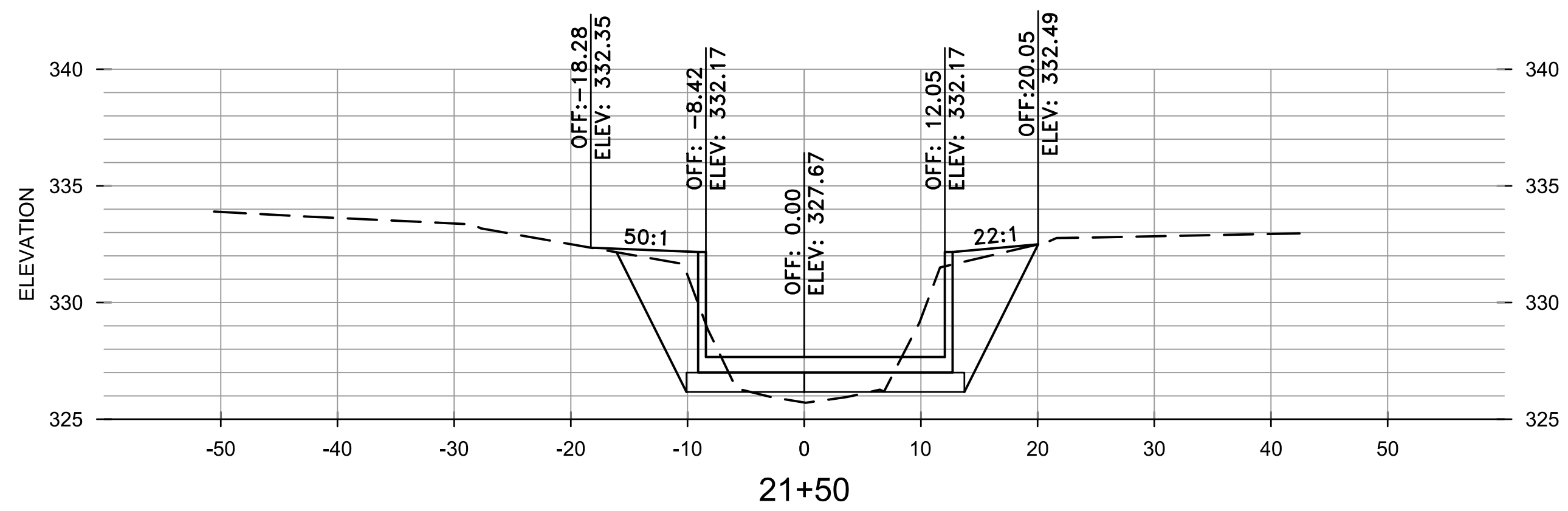
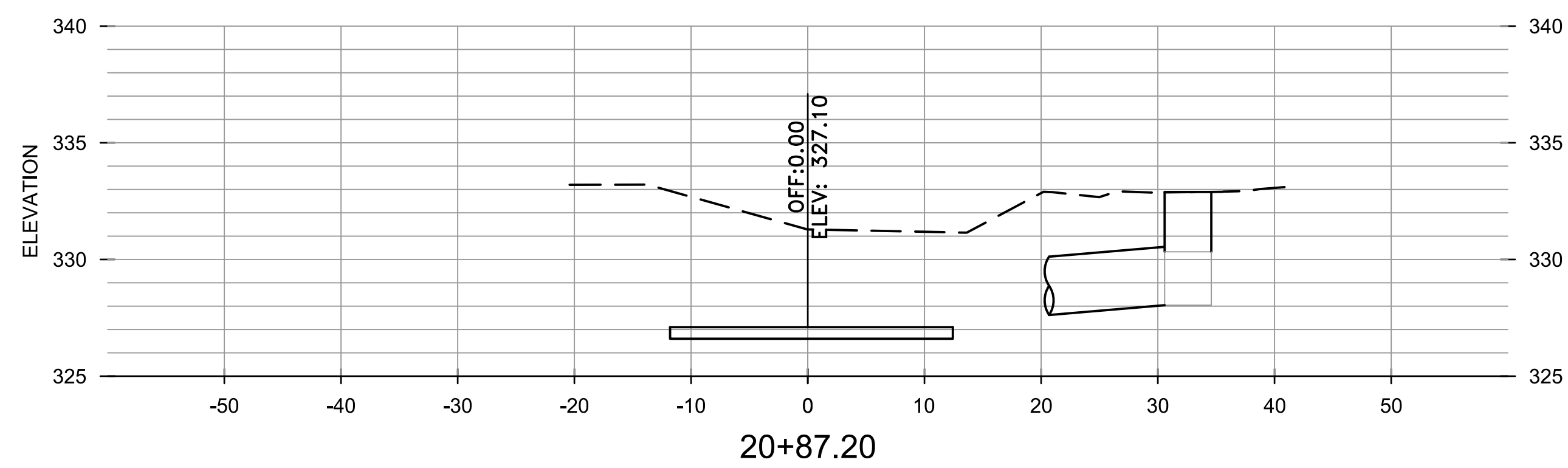
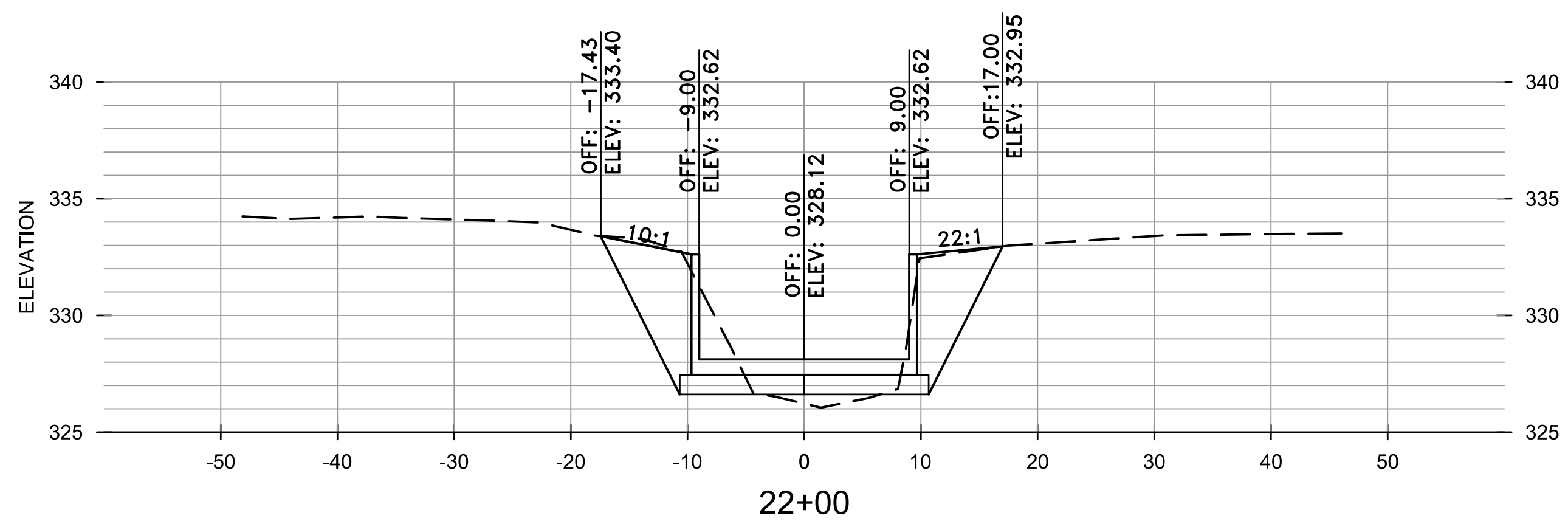
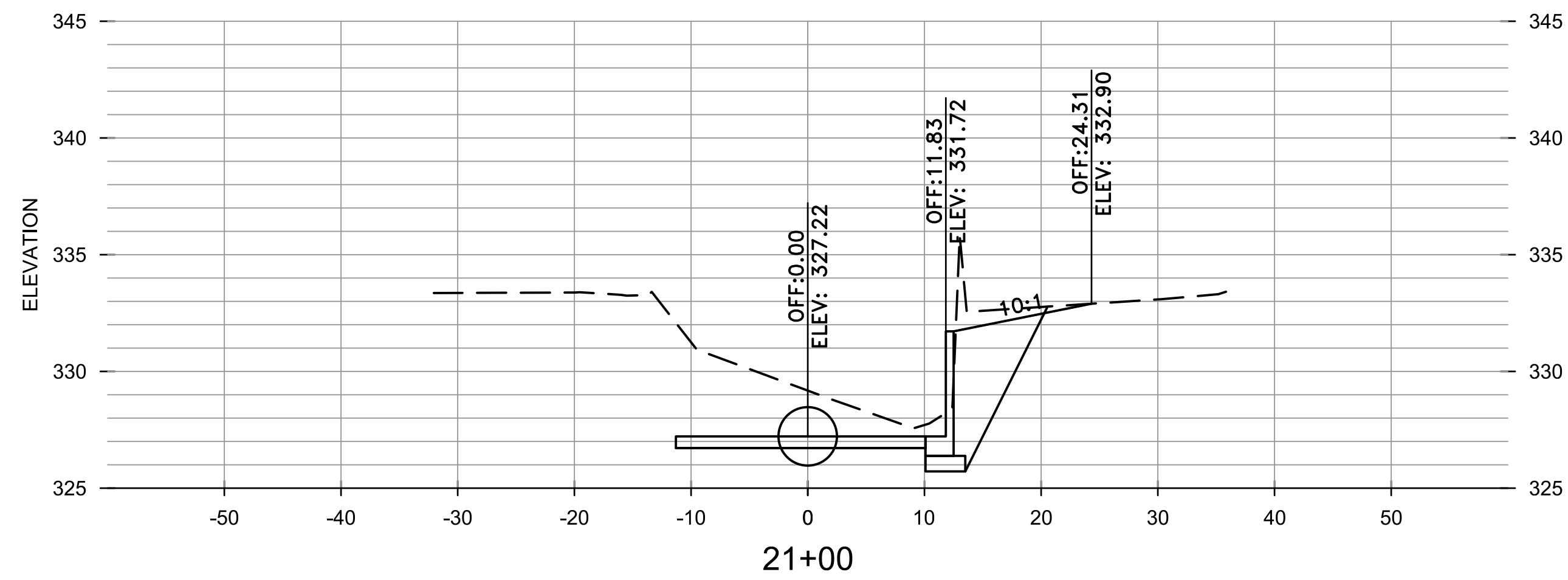
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 CROSS SECTIONS
 STA 20+70.22 TO 22+00

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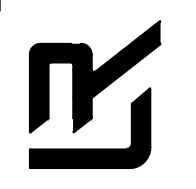
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DESIGNED RCC
CHECKED TEM
DATE 1-10-2020
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-235
SHEET NO. C10



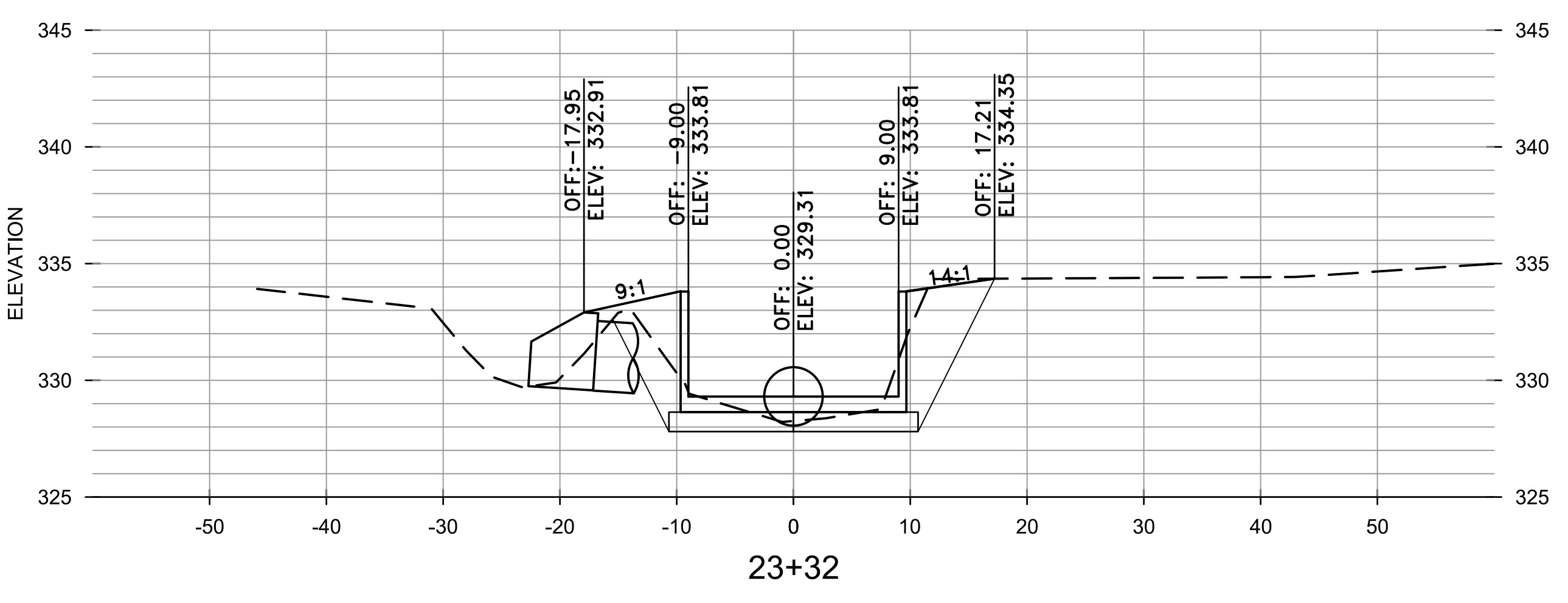
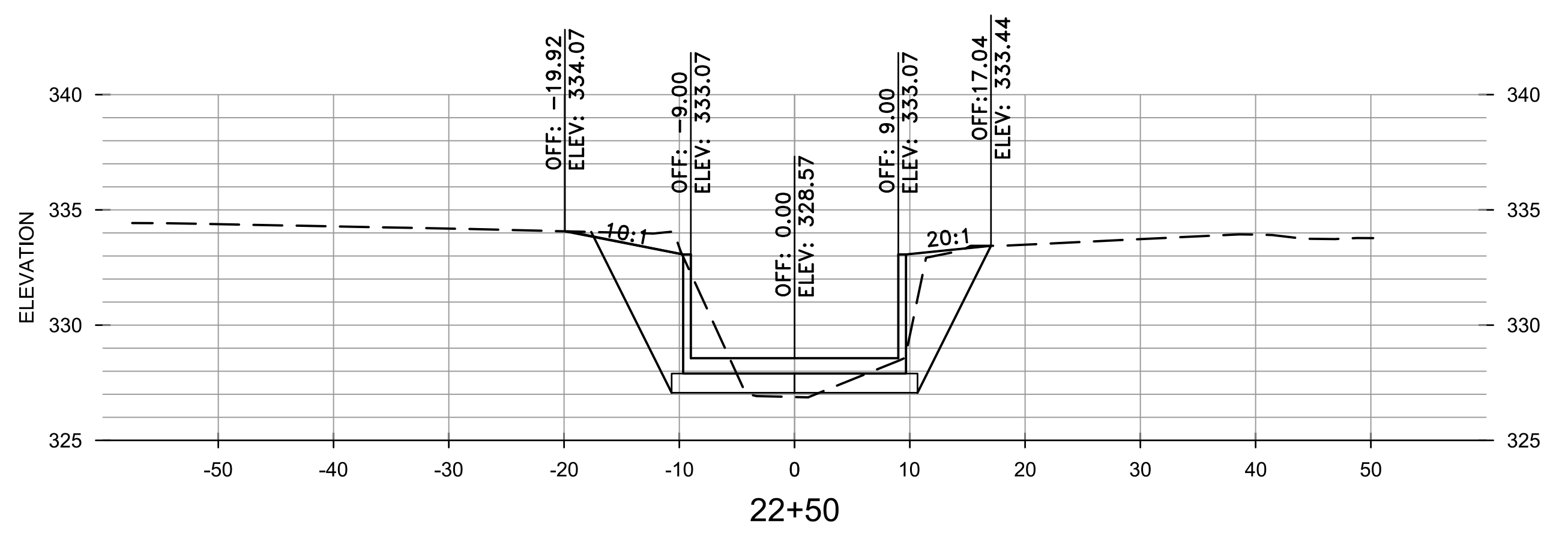
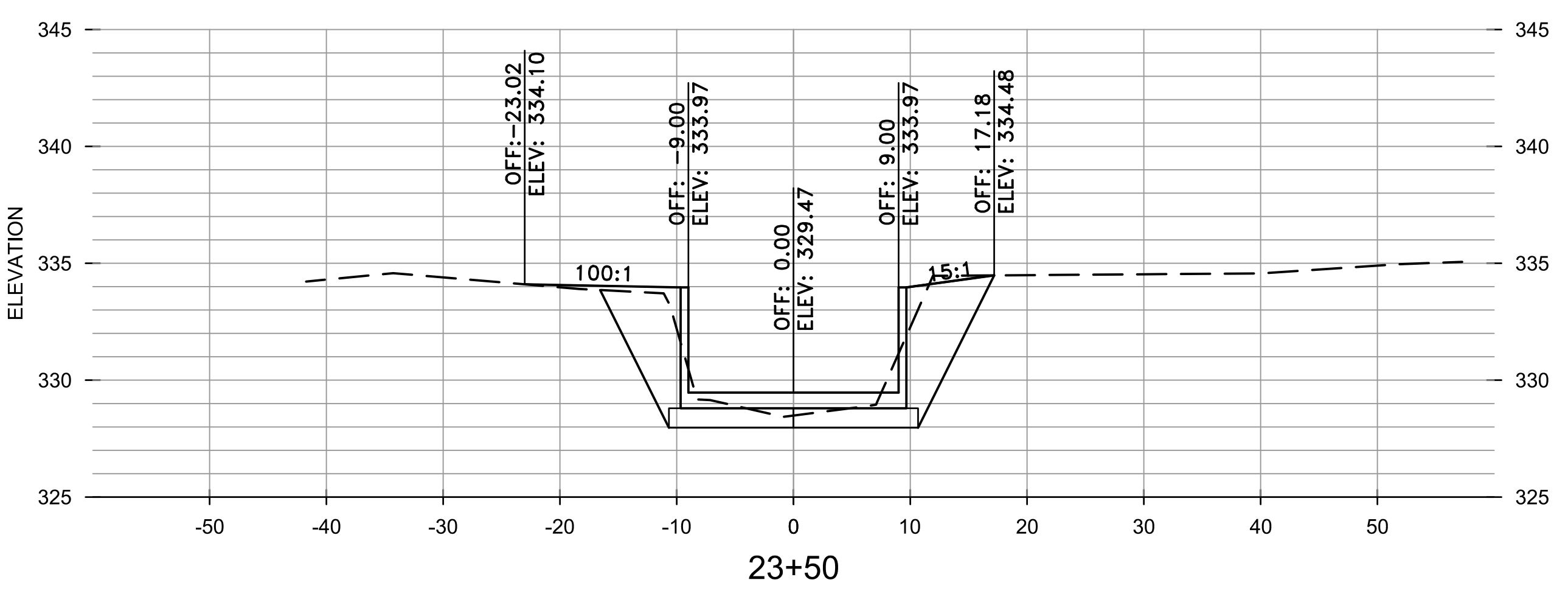
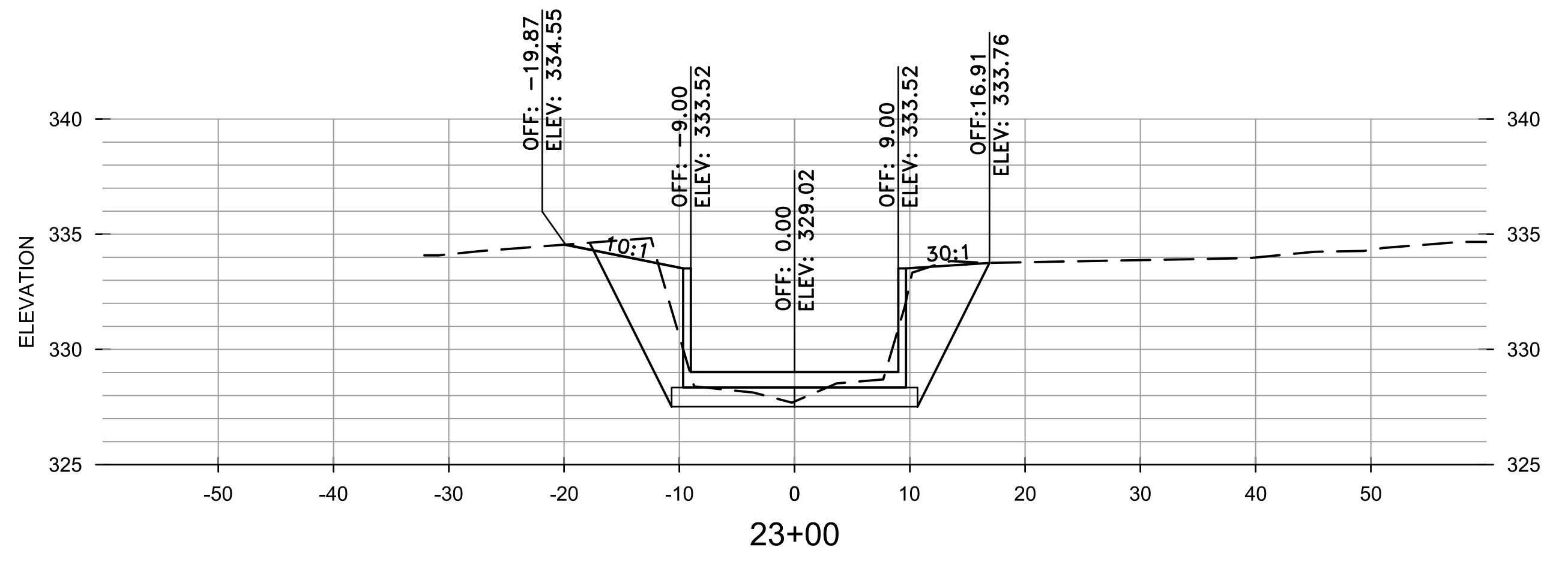
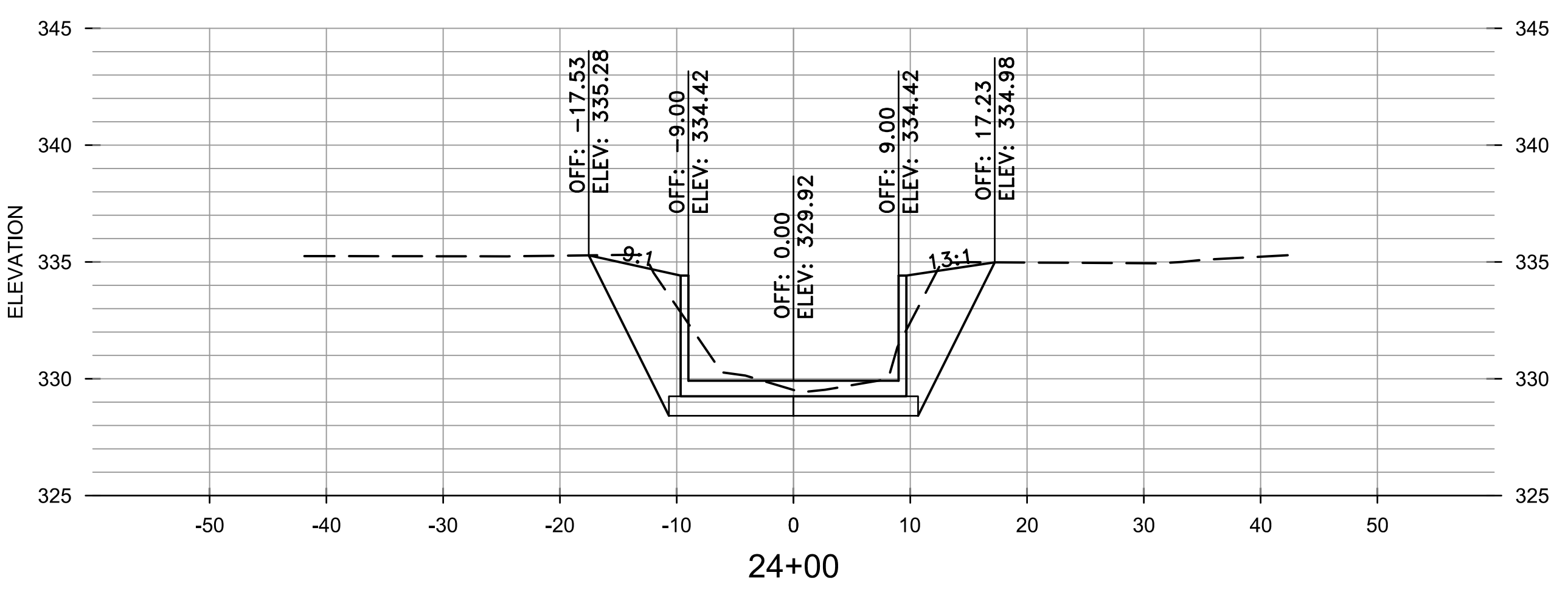
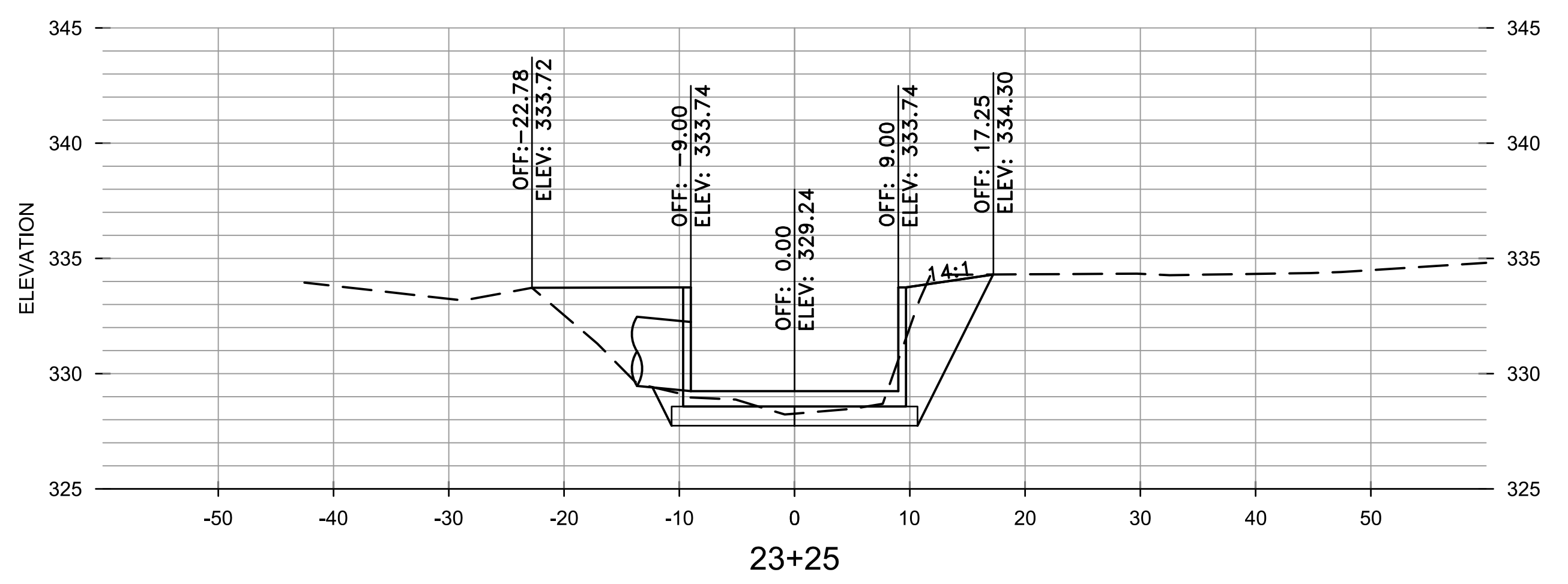
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 CROSS SECTIONS
 STA 22+50 TO 24+00

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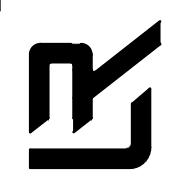
DRAWN BY
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DESIGNED
 RCC
CHECKED
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DATE
 1-10-2020
SCALE
 H: 1"=10'
 V: 1"=5'
PROJECT NO.
 03-17-DR-235
SHEET NO.
 C11



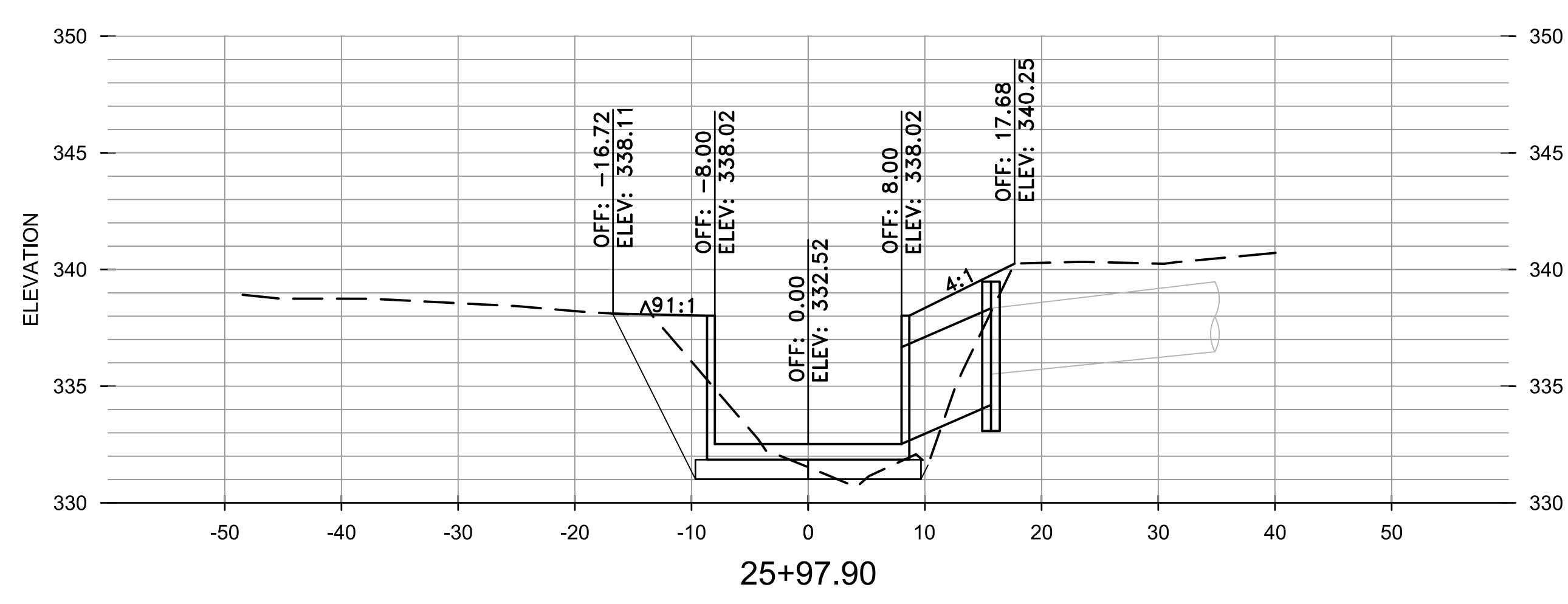
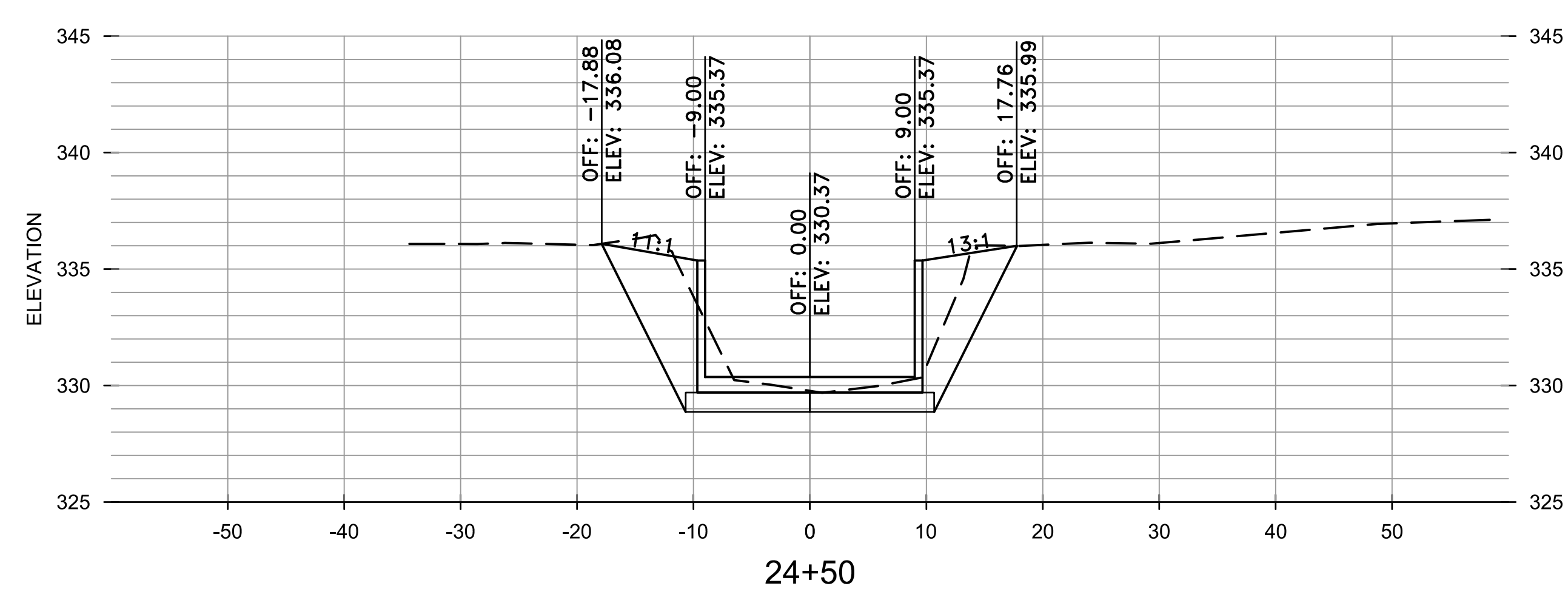
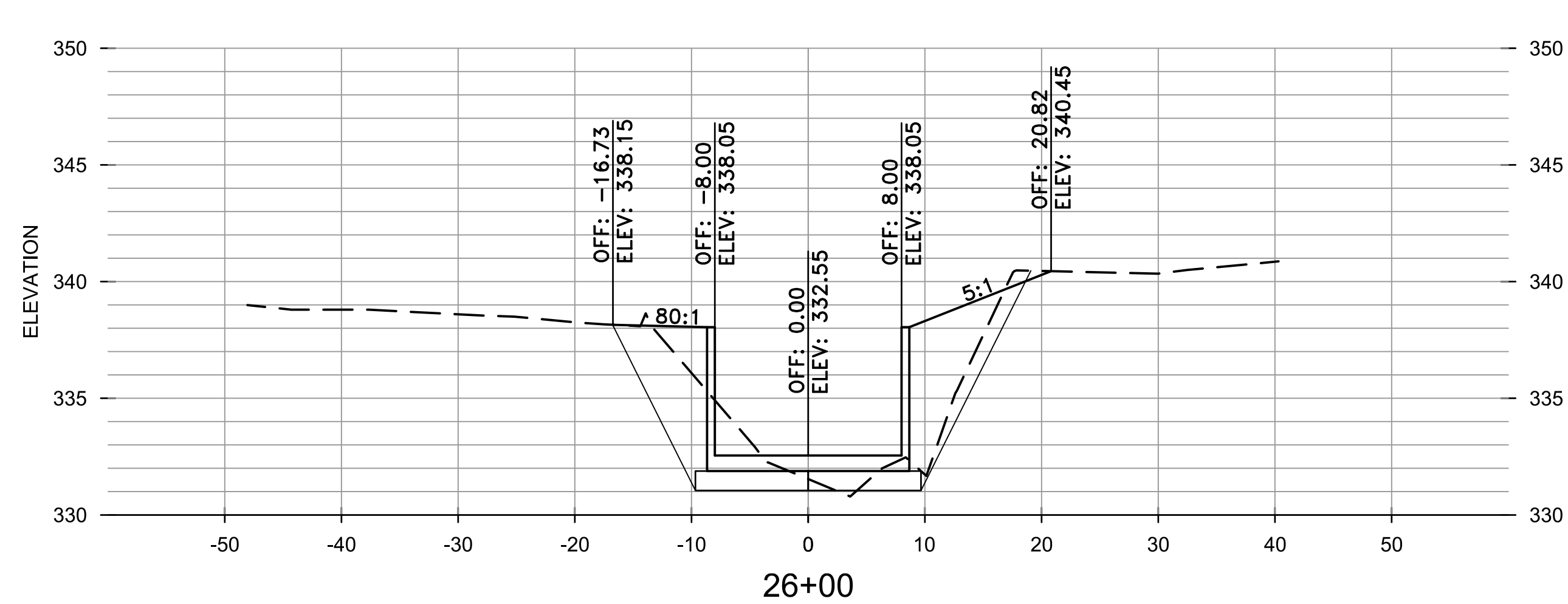
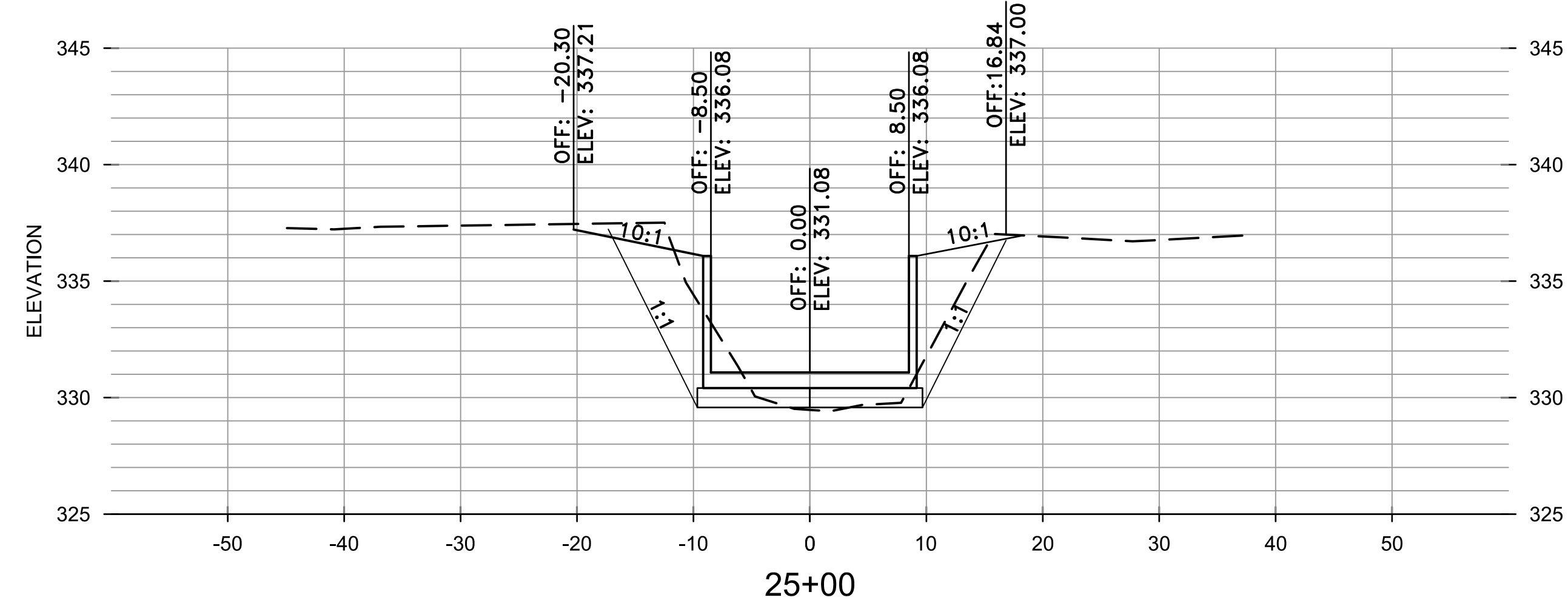
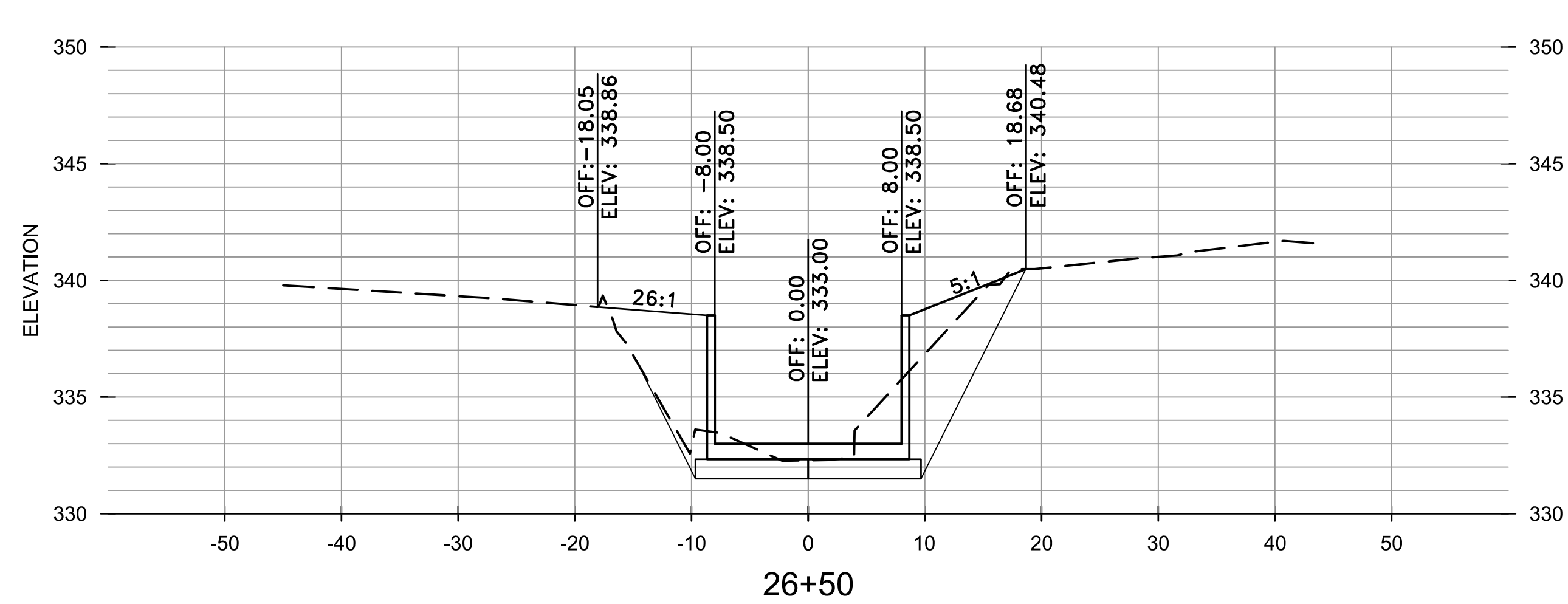
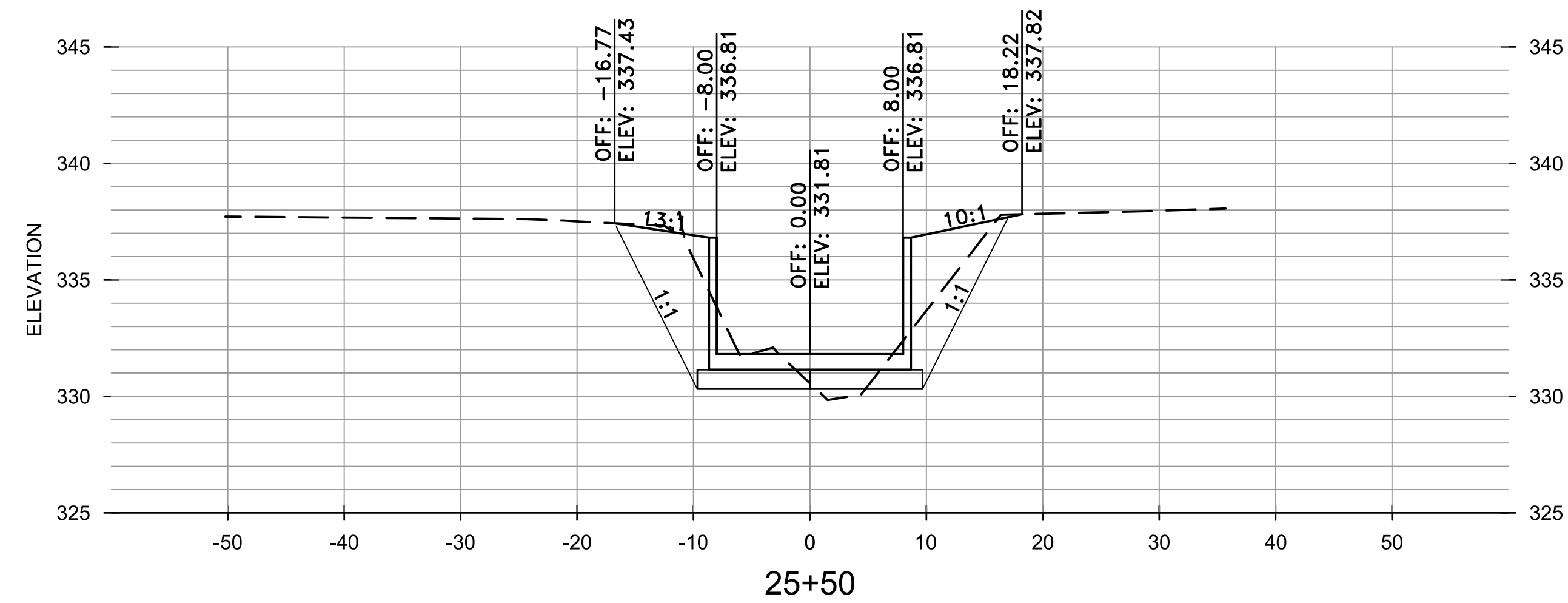
REVISIONS	DATE

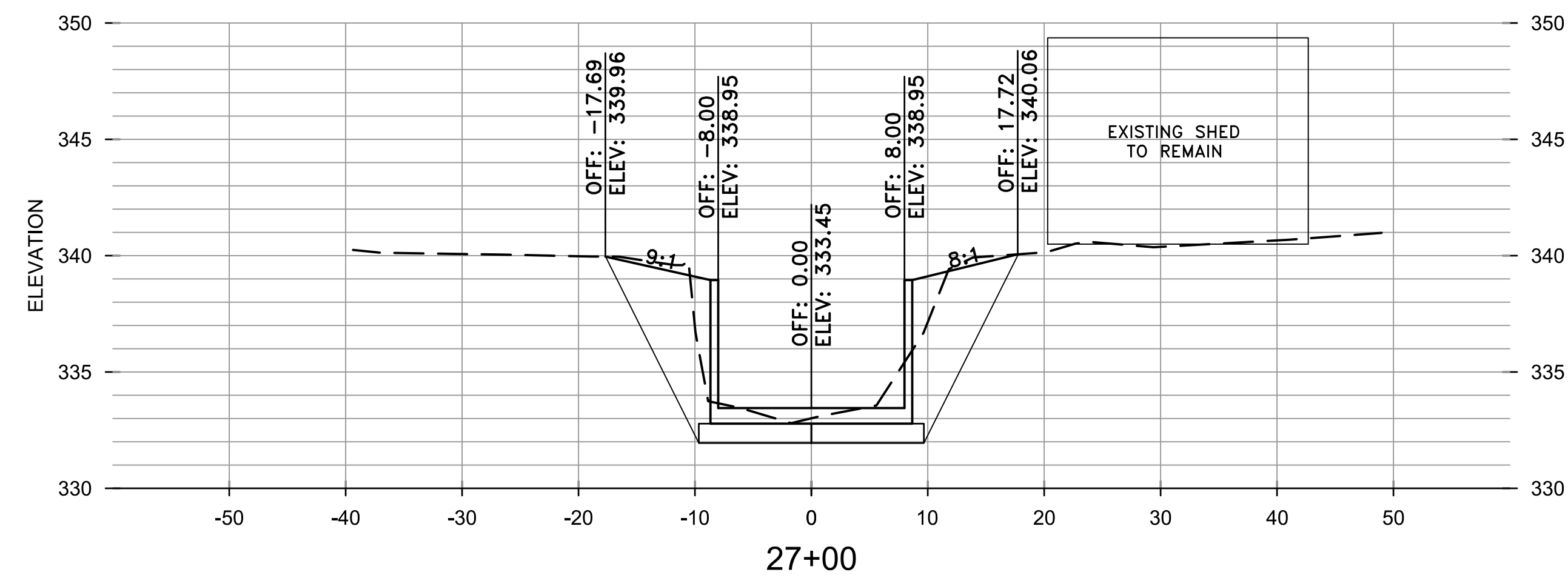
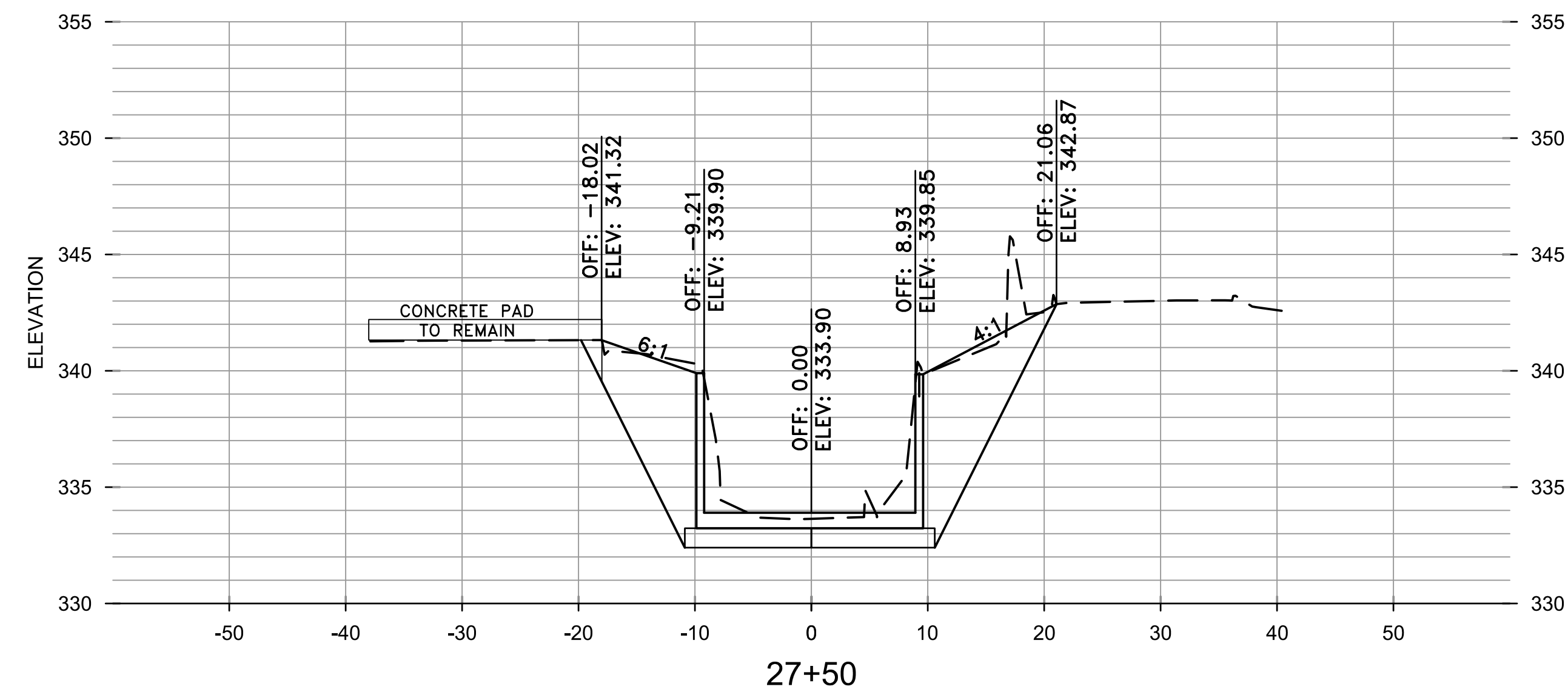
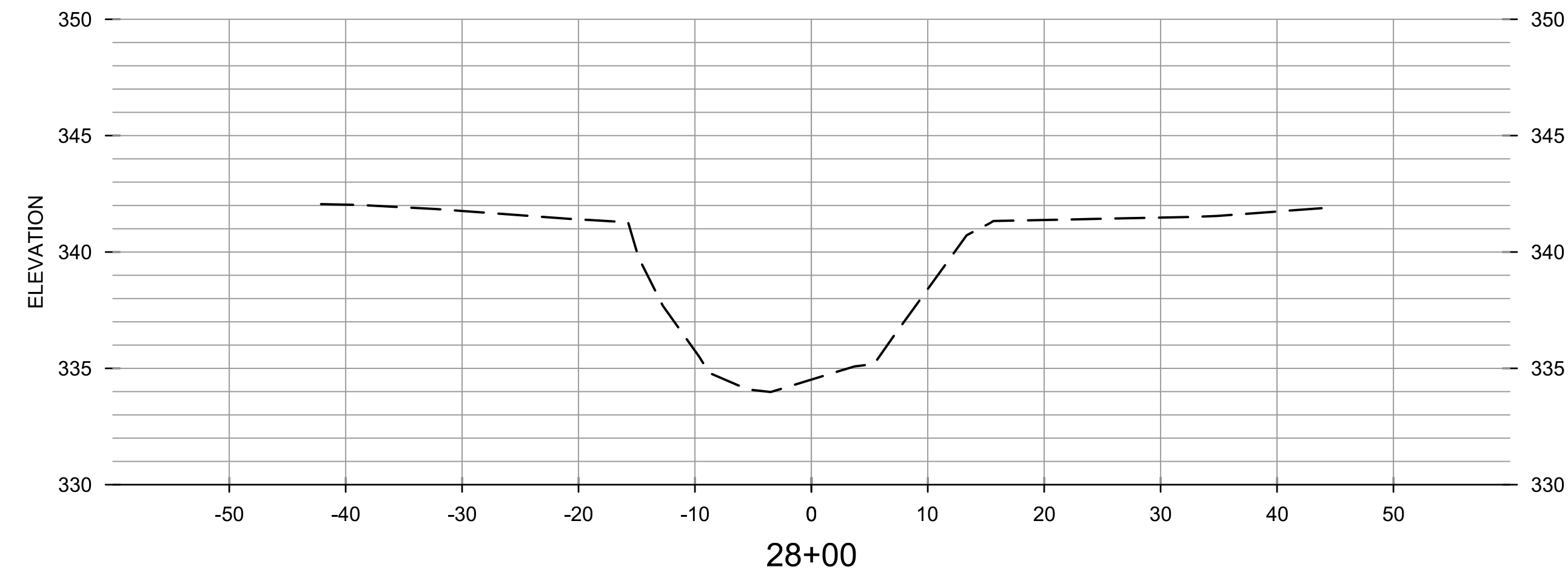
CITY OF LITTLE ROCK, ARKANSAS
BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 CROSS SECTIONS
 STA 24+50 TO 26+50

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
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 MJM
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 RCC
 CHECKED
 TEM
 DATE
 1-10-2020
 SCALE
 H: 1"=10'
 V: 1"=5'
 PROJECT NO.
 03-17-DR-235
 SHEET NO.
C12

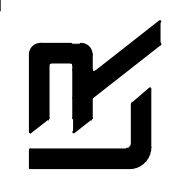




REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
 BRIARWOOD AREA DRAINAGE IMPROVEMENTS
 CROSS SECTIONS
 STA 27+00 TO 28+00

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 LITTLE ROCK, ARKANSAS 72201



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 MJM
 DESIGNED
 RCC
 CHECKED
 TEM
 DATE
 1-10-2020
 SCALE
 H: 1"=10'
 V: 1"=5'
 PROJECT NO.
 03-17-DR-235
 SHEET NO.
C13