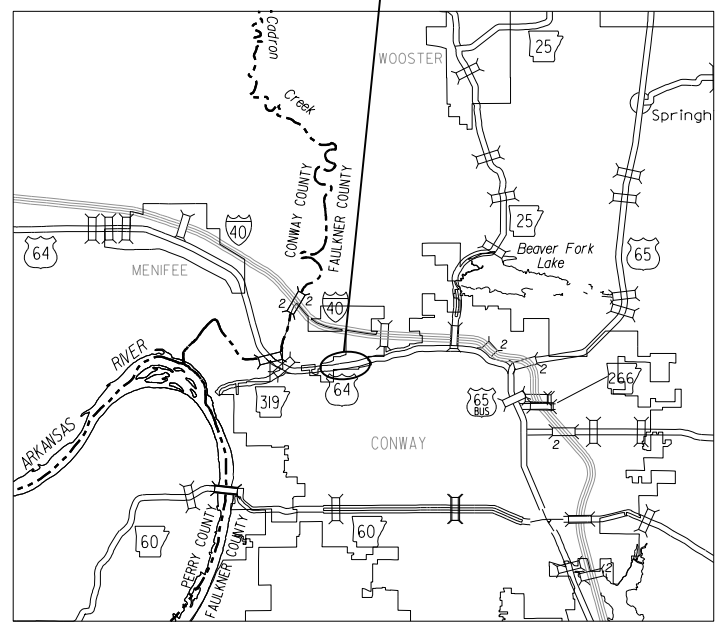


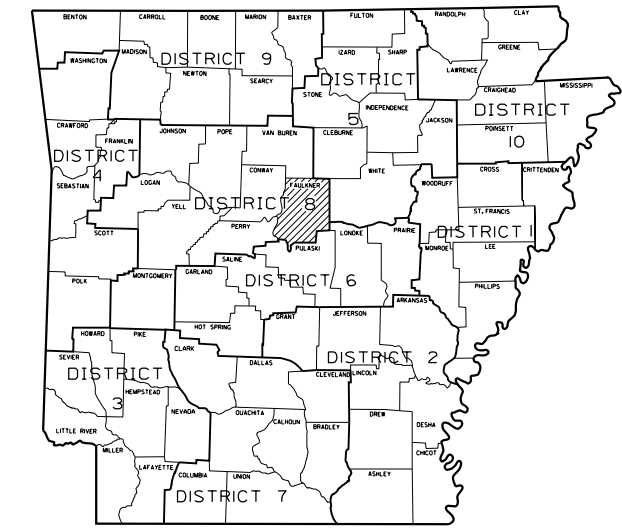
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6/10/2024		6	ARK.	080634	1	80
HWY. 64/HOGAN LN. ROUNDABOUT (CONWAY) (S)						

PROJECT LOCATION

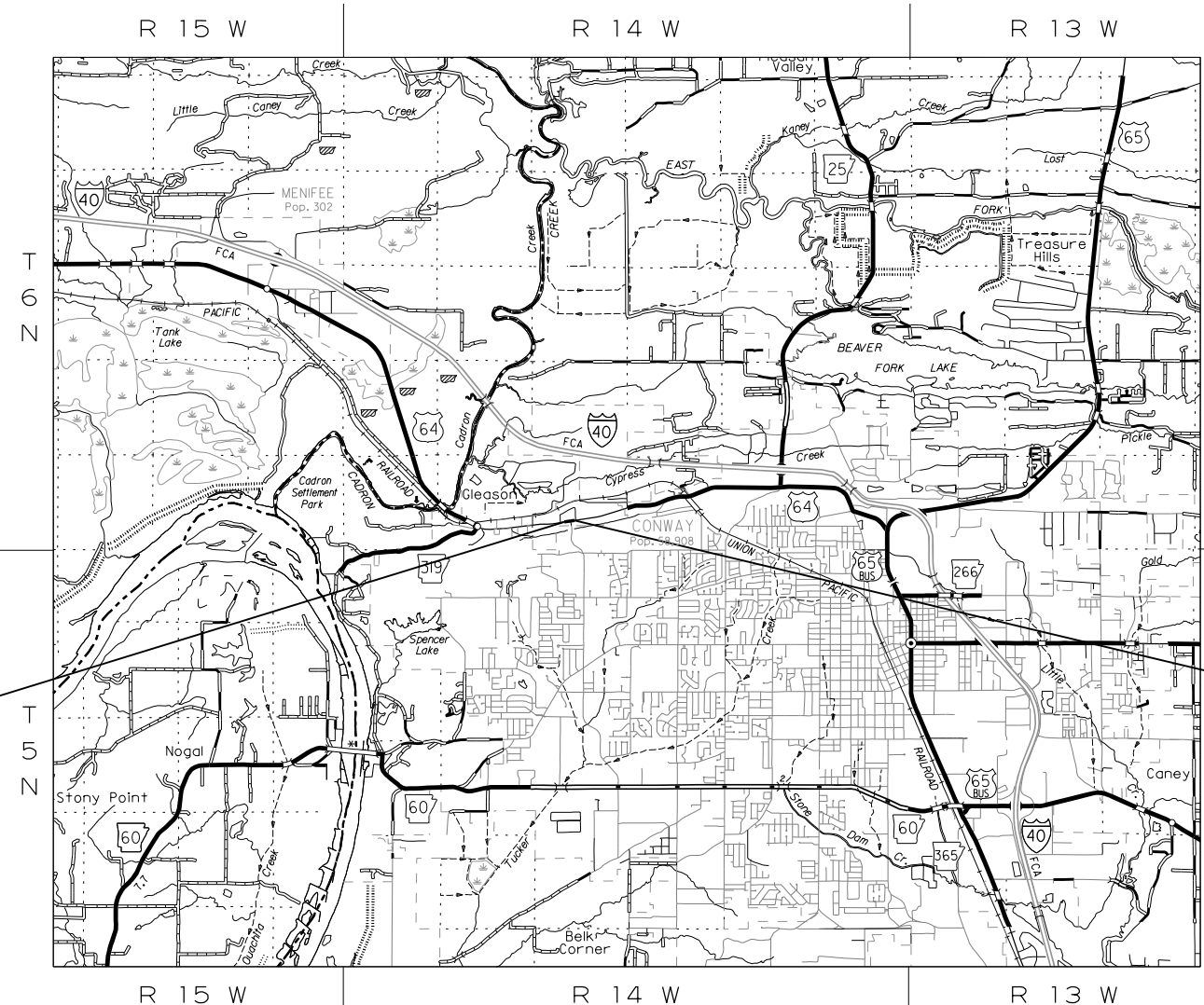


ARKANSAS DEPARTMENT OF TRANSPORTATION
 CONSTRUCTION PLANS FOR STATE HIGHWAY
 HWY. 64/HOGAN LN.
 ROUNDABOUT (CONWAY) (S)
 FAULKNER COUNTY
 ROUTE 64 SECTION 8
 JOB 080634
 FED. AID PROJ. CRTLC-STPC-STPLC-9095(40)

NOT TO SCALE



ARKANSAS HIGHWAY DISTRICT 8



DESIGN TRAFFIC DATA

DESIGN YEAR	-----	2044
2024 ADT	-----	11,000
2044 ADT	-----	14,000
2044 DHV	-----	1,540
DIRECTIONAL DISTRIBUTION	-----	60%
TRUCKS	-----	5%
DESIGN SPEED	-----	55 MPH



STA. 12+00.00
 BEGIN JOB 080634
 L.M. 1.31

STA. 25+50.00
 END JOB 080634

PROJECT COORDINATES

	BEGIN	MID-POINT	END
LATITUDE	N 35°06'42"	N 35°06'42"	N 35°06'44"
LONGITUDE	W 92°30'06"	W 92°29'58"	W 92°29'51"
STATION	12+00.00	19+00.00	25+50.00

GROSS LENGTH OF PROJECT	1350.00 FEET OR 0.256 MILES
NET LENGTH OF ROADWAY	1350.00 FEET OR 0.256 MILES
NET LENGTH OF BRIDGES	0.00 FEET OR 0.00 MILES
NET LENGTH OF PROJECT	1350.00 FEET OR 0.256 MILES

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	2	80
INDEX OF SHEETS AND STANDARD DRAWINGS						



Digitally Signed 02/21/2024

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARD DRAWINGS
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES
4 - 6	TYPICAL SECTIONS OF IMPROVEMENT
7 - 10	SPECIAL DETAILS
11	RETAINING WALL DETAILS
12 - 14	TEMPORARY EROSION CONTROL DETAILS
15 - 18	MAINTENANCE OF TRAFFIC DETAILS
19	PERMANENT PAVEMENT MARKING DETAILS
20	SOIL BORING LOG
21 - 25	QUANTITIES
26	SIGNING QUANTITIES
27	SUMMARY OF QUANTITIES AND REVISIONS
28 - 29	SURVEY CONTROL DETAILS
30	PLAN LAYOUT - HWY. 64
31	PROFILE LAYOUT - HWY. 64
32	PLAN LAYOUT - HOGAN LN.
33	PROFILE LAYOUT - HOGAN LN.
34	PLAN & PROFILE - CIRCULATORY ROADWAY
35	PROFILE - SIDE ROADS
36 - 37	SIGN PLACEMENT SHEET
38	ELECTRICAL LEGEND AND NOTES
39	LIGHTING REMOVAL PLAN
40	LIGHTING INSTALLATION PLAN
41 - 44	ELECTRICAL DETAILS
45 - 80	CROSS SECTIONS

NOTE: CROSS SECTIONS NOT NORMALLY INCLUDED IN PLANS SOLD TO PROSPECTIVE BIDDERS, BUT MAY BE HAD UPON REQUEST.

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
CG-1	CURBING DETAILS	11-29-07
CPTJ-6A	TRANSVERSE & LONGITUDINAL JOINTS FOR CONCRETE PAVEMENT (NON-REINFORCED)	11-07-19
DR-1	DETAILS OF DRIVEWAYS & ISLANDS	05-19-22
DR-2	DETAILS OF DRIVEWAYS & STREET TURNOUTS	05-19-22
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9	DETAILS OF DROP INLETS & JUNCTION BOXES	11-16-01
FPC-9E	DETAILS OF DROP INLETS (TYPE C)	08-22-02
FPC-9M	DETAILS OF DROP INLET (TYPE MO)	08-22-02
MB-1	MAILBOX DETAILS	11-18-04
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCM-1	METAL PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PM-1	PAVEMENT DETAILS	02-27-20
SHS-1	STANDARD SIGNS AND SUPPORTS ASSEMBLIES	09-12-13
SHS-2	U-CHANNEL ASSEMBLIES	07-25-19
SHS-3	DETAIL OF SIGN SUPPORTS FOR GUIDE SIGNS	05-19-22
SHS-4	DETAIL OF SIGN SUPPORTS FOR STANDARD SIGNS	09-12-13
SHS-5	DETAILS OF SIGN PANELS	09-12-13
SI-1	DETAILS OF EMBLEM	10-25-18
SI-2	REINFORCED RETAINING WALL (WITHOUT LIVE LOAD SURCHARGE)	05-14-20
TC-1	STANDARD CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WF-1	WIRE FENCE TYPE A AND B	08-22-02

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6/10/2024		6	ARK.	080634	3	80
GOVERNING SPECIFICATIONS AND GENERAL NOTES						

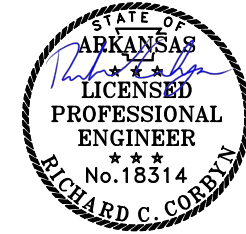
GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
102-3	PREQUALIFICATION OF BIDDERS
103-2	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4	MAINTENANCE DURING CONSTRUCTION
107-2	RESTRAINING CONDITIONS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
210-1	UNCLASSIFIED EXCAVATION
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
400-1	TACK COATS
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
400-7	TRACKLESS TACK
404-3	DESIGN OF ASPHALT MIXTURES
409-2	ASPHALT LABORATORY FACILITY
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1	RECYCLED ASPHALT PAVEMENT
501-2	CEMENT
502-1	WELDED WIRE REINFORCEMENT
505-1	PORTLAND CEMENT CONCRETE DRIVEWAY
600-2	INCIDENTAL CONSTRUCTION
603-1	LANE CLOSURE NOTIFICATION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
605-1	CONCRETE DITCH PAVING
620-1	MULCH COVER
621-1	FILTER SOCKS
632-1	CONCRETE ISLAND
634-1	CURBING
700-2	TRAFFIC CONTROL FACILITIES
723-1	GENERAL REQUIREMENTS FOR SIGNS
730-1	BREAKAWAY SIGN SUPPORT
800-1	STRUCTURES
802-4	CEMENT
804-2	REINFORCING STEEL FOR STRUCTURES
JOB 080634	BASIC ELECTRICAL REQUIREMENTS
JOB 080634	BIDDING REQUIREMENTS AND CONDITIONS
JOB 080634	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 080634	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 080634	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 080634	CARGO PREFERENCE ACT REQUIREMENTS
JOB 080634	CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE
JOB 080634	COLD MILLING - COUNTY PROPERTY
JOB 080634	CONCRETE PULL BOX
JOB 080634	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB 080634	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 080634	ELECTRICAL CONDUCTORS FOR LUMINAIRES
JOB 080634	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 080634	ELECTRICAL DEMOLITION AND RELOCATION WORK
JOB 080634	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 080634	LED ROADWAY ILLUMINATION POLE
JOB 080634	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 080634	LONGITUDINAL JOINT DENSITIES FOR ACHM SURFACE COURSES
JOB 080634	LONGITUDINAL TILING
JOB 080634	MANDATORY ELECTRONIC CONTRACT
JOB 080634	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 080634	OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB 080634	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT
JOB 080634	PARTNERING REQUIREMENTS
JOB 080634	PEDESTAL TYPE SERVICE POINT ASSEMBLY
JOB 080634	PERCENT AIR VOIDS AND NDESIGN FOR ACHM MIX DESIGNS
JOB 080634	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 080634	PRICE ADJUSTMENT FOR FUEL
JOB 080634	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 080634	RESTRICTIONS ON THE USE OF RECYCLED ASPHALT PAVEMENT MATERIAL
JOB 080634	SHORING FOR CULVERTS
JOB 080634	SOIL STABILIZATION
JOB 080634	STORM WATER POLLUTION PREVENTION PLAN
JOB 080634	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 080634	TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS)
JOB 080634	UTILITY ADJUSTMENTS
JOB 080634	VALUE ENGINEERING
JOB 080634	WARM MIX ASPHALT
JOB 080634	WATER POLLUTION CONTROL

GENERAL NOTES

- GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
- THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THIS PROJECT IS COVERED UNDER A SECTION 404 NATIONWIDE 14 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.

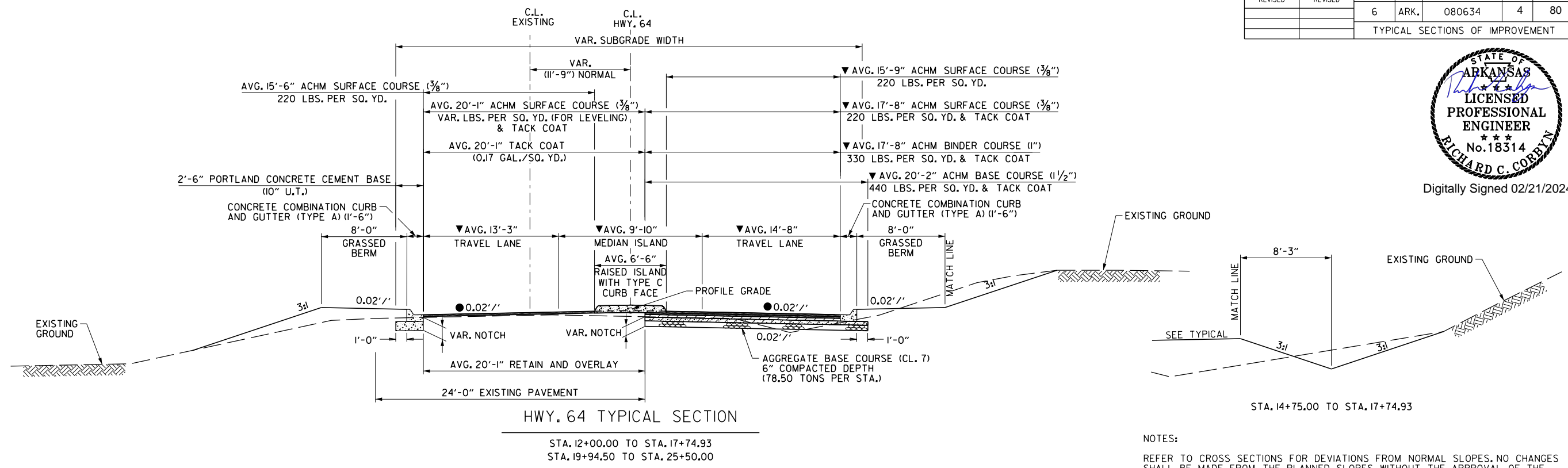


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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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TYPICAL SECTIONS OF IMPROVEMENT						

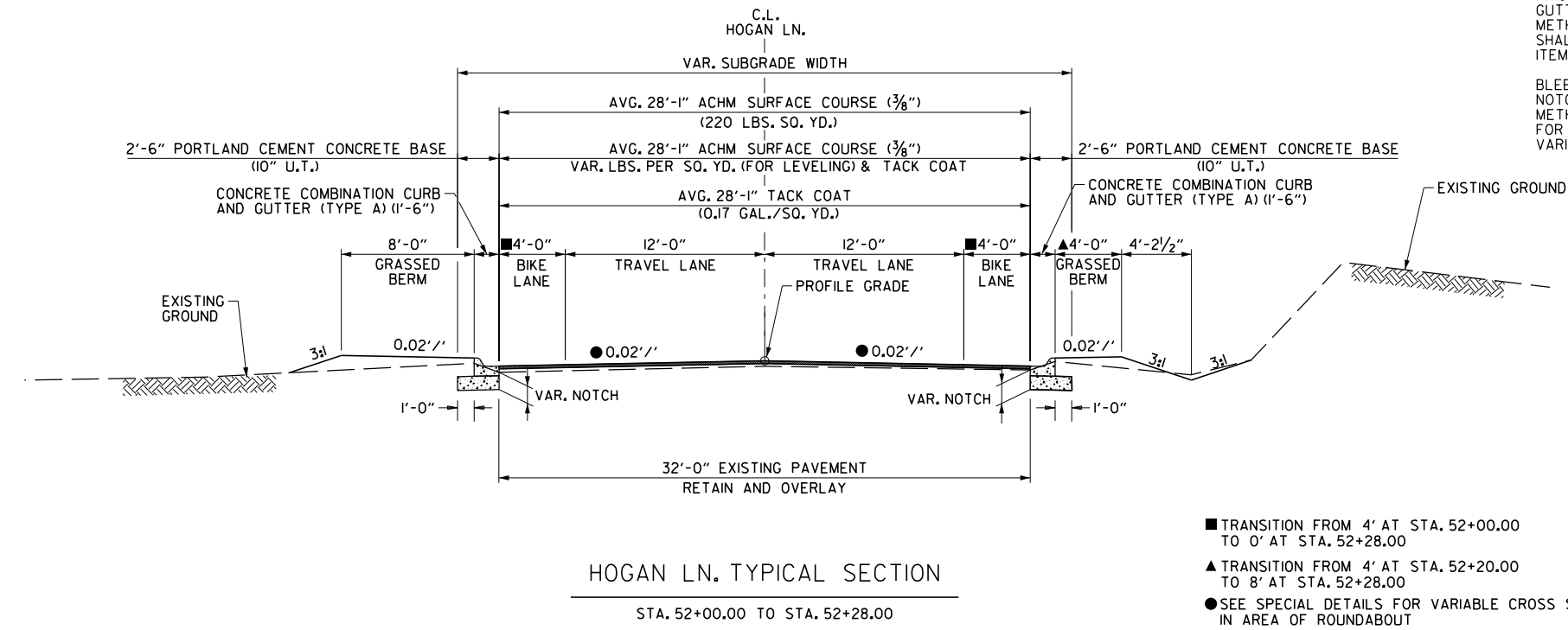


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NOTES:

- REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
- THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET THE TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
- ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED ONLY IF AND WHERE DIRECTED BY THE ENGINEER. CALCULATIONS FOR THE AMOUNT OF LEVELING AND/OR LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS.
- THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.
- PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.
- BLEEDER DITCHES - PRIOR TO AND DURING PLACEMENT OF PAVEMENT AT THE NOTCH, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) AND SPACING USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.



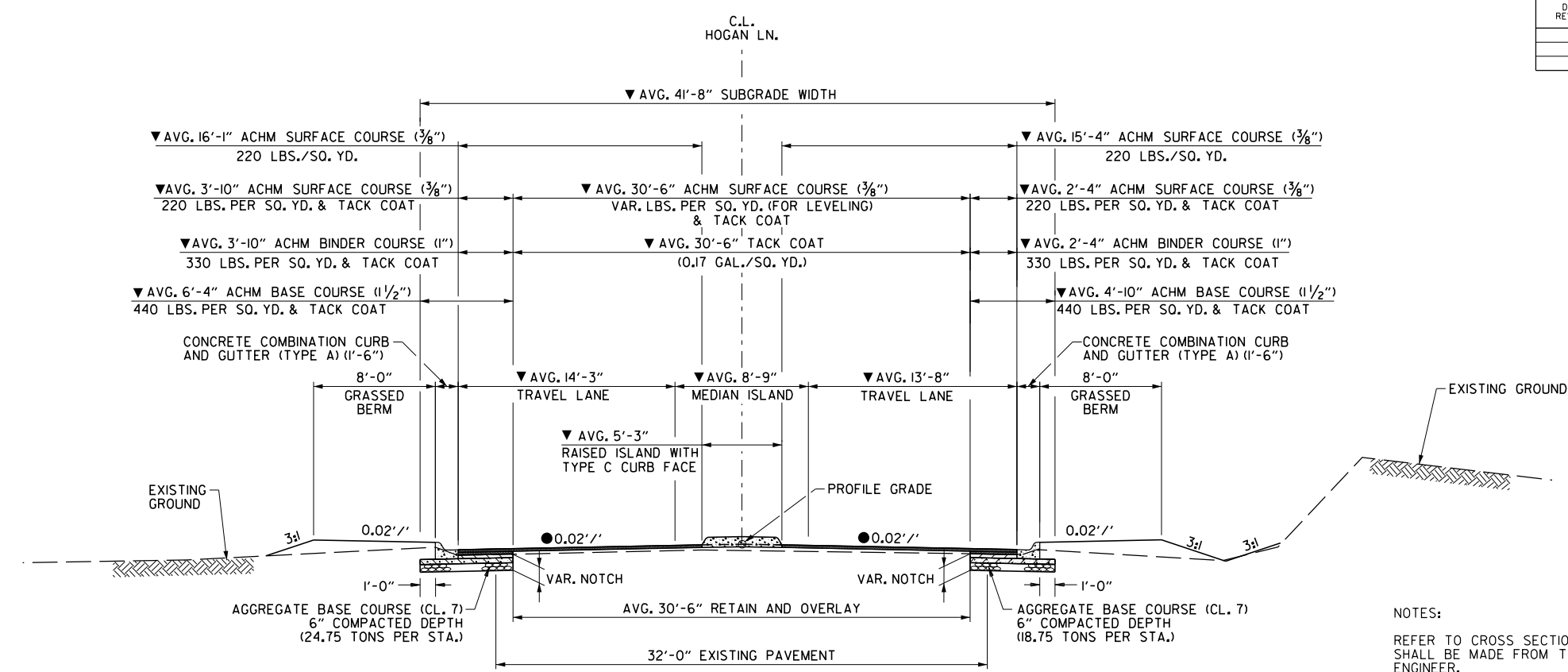
- TRANSITION FROM 4' AT STA. 52+00.00 TO 0' AT STA. 52+28.00
- ▲ TRANSITION FROM 4' AT STA. 52+20.00 TO 8' AT STA. 52+28.00
- SEE SPECIAL DETAILS FOR VARIABLE CROSS SLOPES IN AREA OF ROUNDABOUT
- NOTE: SEE PLAN AND PROFILE SHEETS FOR EXACT LIMITS OF CURB AND ISLAND LOCATIONS

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		6	ARK.	080634	5	80
TYPICAL SECTIONS OF IMPROVEMENT						



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HOGAN LN. TYPICAL SECTION

STA. 52+28.00 TO STA. 54+64.22

- ▼ SEE SPECIAL DETAILS FOR VARIABLE LANE AND/OR ISLAND WIDTHS IN AREA OF ROUNDABOUT
- SEE SPECIAL DETAILS FOR VARIABLE CROSS SLOPES IN AREA OF ROUNDABOUT
- NOTE: SEE PLAN AND PROFILE SHEETS FOR EXACT LIMITS OF CURB AND ISLAND LOCATIONS

NOTES:

REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

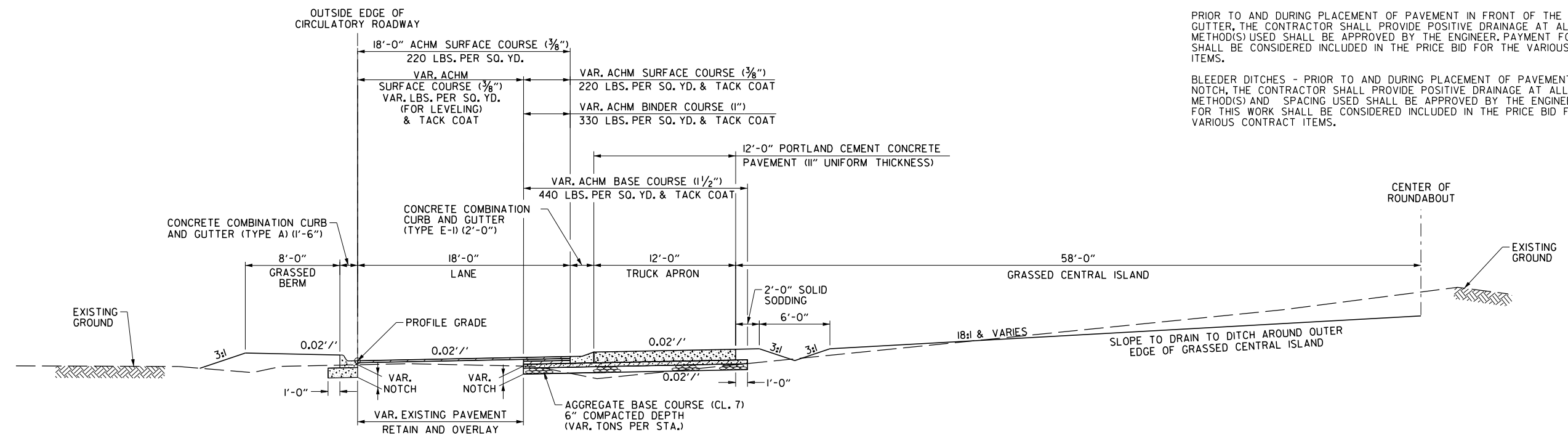
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CIRCULATORY ROADWAY TYPICAL SECTION

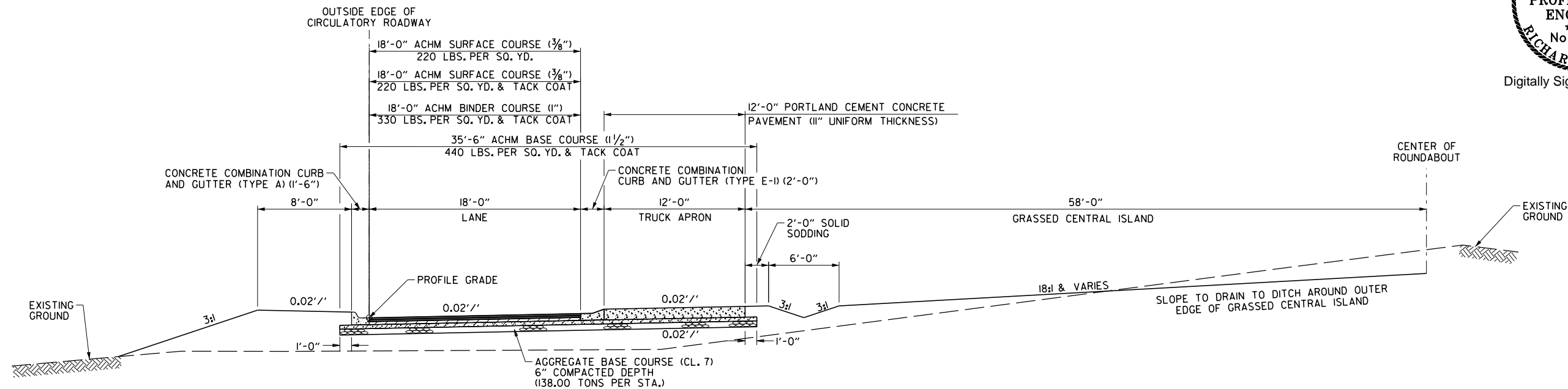
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 STA. 4+20.16 TO STA. 4+80.73
 STA. 6+46.00 TO STA. 6+65.49

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	6	80
TYPICAL SECTIONS OF IMPROVEMENT						



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CIRCULATORY ROADWAY TYPICAL SECTION

STA. 1+19.97 TO STA. 2+56.79
 STA. 3+17.21 TO STA. 4+20.16
 STA. 4+80.73 TO STA. 6+46.00

NOTES:

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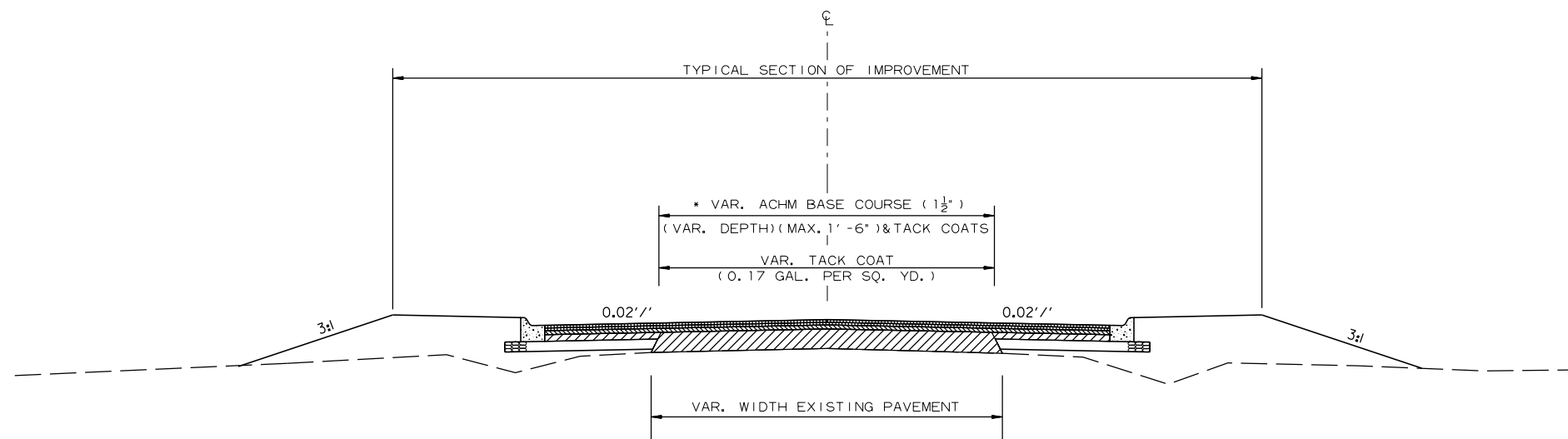
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SPECIAL DETAILS						



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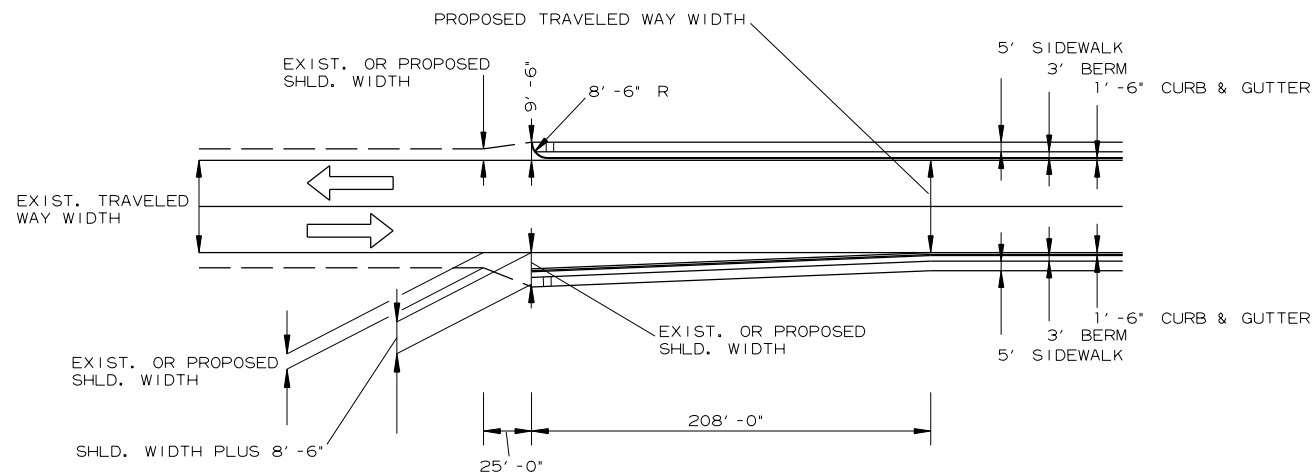


* 6" AGGREGATE BASE COURSE (CLASS 7)
TO BE REPLACED WITH A. C. H. M. BASE COURSE (1 1/2")

METHOD OF RAISING GRADE

NOTES:

- (1) THIS DETAIL TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.
- (2) QUANTITIES FOR METHOD OF GRADE RAISE USING ASPHALT WERE CALCULATED ON THIS PROJECT AT LOCATIONS WHERE THE DISTANCE BETWEEN THE EXISTING ASPHALT ROADWAY AND THE PROPOSED SUBGRADE WAS ONE FOOT OR LESS.
- (3) IN LOCATIONS WHERE THE DISTANCE BETWEEN THE PROPOSED SUBGRADE AND THE EXISTING ASPHALT ROADWAY IS MORE THAN ONE FOOT, SCARIFICATION OF THE EXISTING ASPHALT ROADWAY WILL BE REQUIRED AS STATED IN SECTION 210, SUBSECTION 210.09 OF THE STANDARD SPECIFICATIONS.



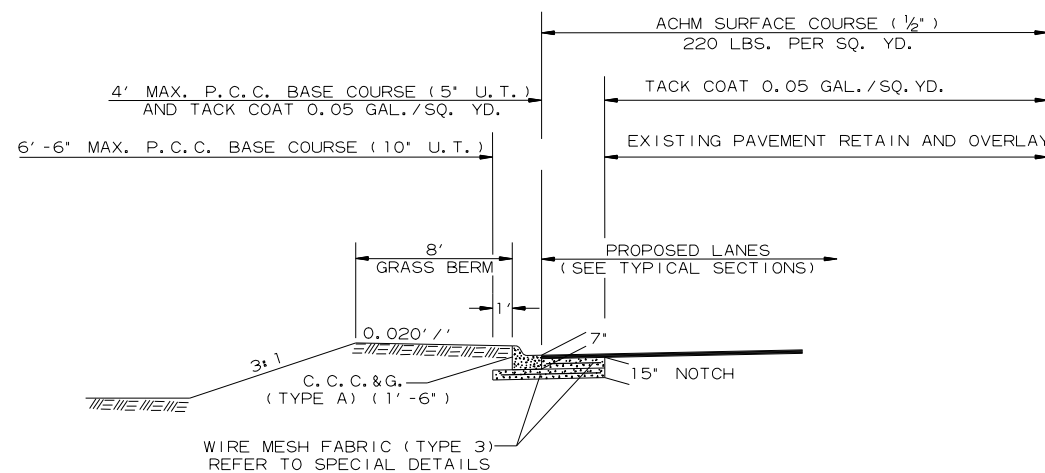
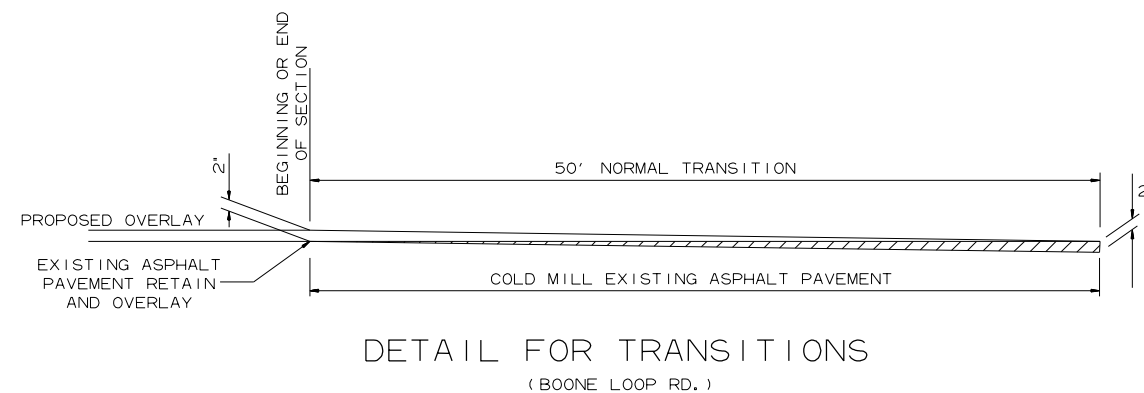
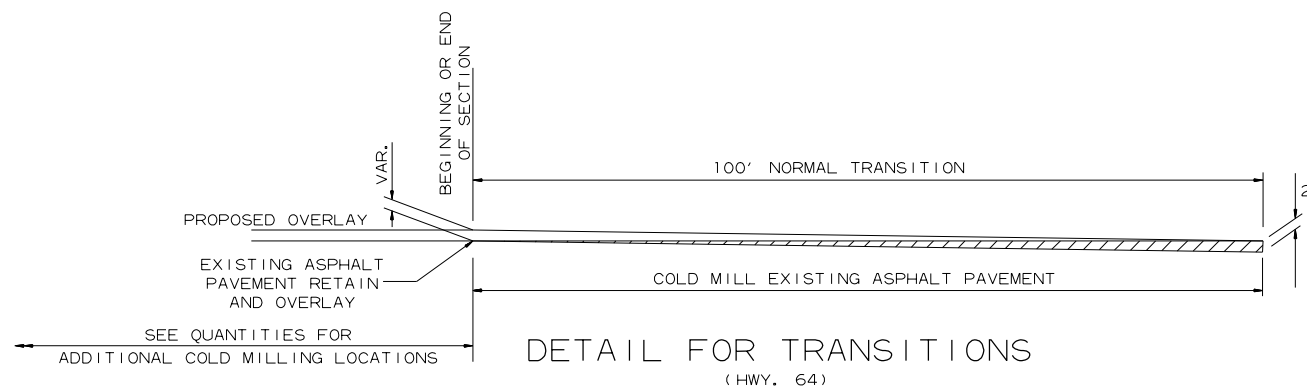
TRANSITION FROM OPEN SHOULDER TO CURB & GUTTER SECTION

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 REVISED DATE:

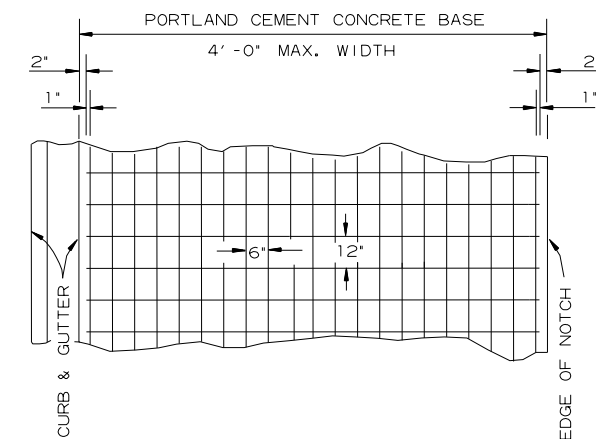
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	8	80
SPECIAL DETAILS						



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P.C.C. BASE WIDENING DETAIL
P.C.C. BASE WIDENING TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.



6" X 12" MESH FABRIC (TYPE 3) (W5.5 X W2.9) = 4.26 LBS./SQ. YD.

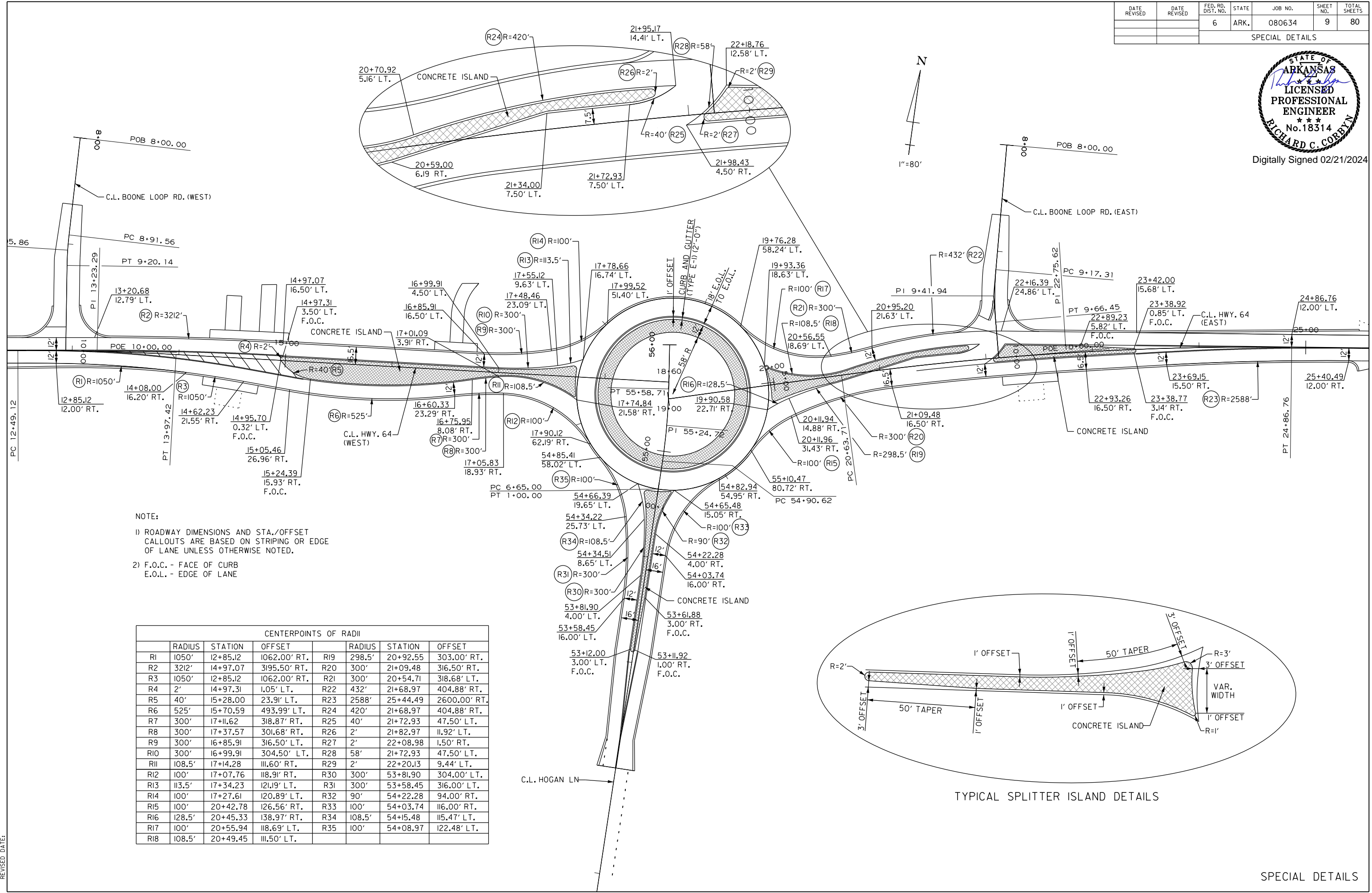
NOTES:

- LAP MESH FABRIC MIN. 12" LONGITUDINALLY AND MIN. 6" TRANSVERSELY.
- MESH FABRIC IS NOT REQUIRED WHEN WIDTH OF PORTLAND CEMENT CONCRETE BASE IS LESS THAN 12".
- MESH FABRIC (TYPE 3) WILL NOT BE PAID FOR DIRECTLY, BUT FULL COMPENSATION THEREFORE WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE BID PER SQ. YD. FOR PORTLAND CEMENT CONCRETE BASE (XX' U.T.)

DETAIL OF REINFORCING STEEL FOR PAVEMENT
(MESH FABRIC TYPE 3)

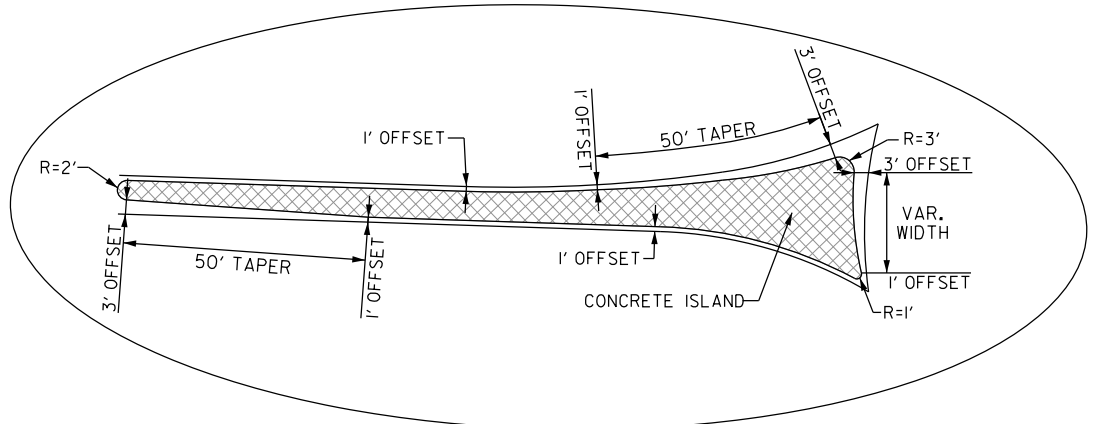


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- NOTE:
- ROADWAY DIMENSIONS AND STA./OFFSET CALLOUTS ARE BASED ON STRIPING OR EDGE OF LANE UNLESS OTHERWISE NOTED.
 - F.O.C. - FACE OF CURB
E.O.L. - EDGE OF LANE

CENTERPOINTS OF RADII							
RADIUS	STATION	OFFSET	RADIUS	STATION	OFFSET		
R1	1050'	12+85.12	1062.00' RT.	R19	298.5'	20+92.55	303.00' RT.
R2	3212'	14+97.07	3195.50' RT.	R20	300'	21+09.48	316.50' RT.
R3	1050'	12+85.12	1062.00' RT.	R21	300'	20+54.71	318.68' LT.
R4	2'	14+97.31	1.05' LT.	R22	432'	21+68.97	404.88' RT.
R5	40'	15+28.00	23.91' LT.	R23	2588'	25+44.49	2600.00' RT.
R6	525'	15+70.59	493.99' LT.	R24	420'	21+68.97	404.88' RT.
R7	300'	17+11.62	318.87' RT.	R25	40'	21+72.93	47.50' LT.
R8	300'	17+37.57	301.68' RT.	R26	2'	21+82.97	11.92' LT.
R9	300'	16+85.91	316.50' LT.	R27	2'	22+08.98	1.50' RT.
R10	300'	16+99.91	304.50' LT.	R28	58'	21+72.93	47.50' LT.
R11	108.5'	17+14.28	111.60' RT.	R29	2'	22+20.13	9.44' LT.
R12	100'	17+07.76	118.91' RT.	R30	300'	53+81.90	304.00' LT.
R13	113.5'	17+34.23	121.19' LT.	R31	300'	53+58.45	316.00' LT.
R14	100'	17+27.61	120.89' LT.	R32	90'	54+22.28	94.00' RT.
R15	100'	20+42.78	126.56' RT.	R33	100'	54+03.74	116.00' RT.
R16	128.5'	20+45.33	138.97' RT.	R34	108.5'	54+15.48	115.47' LT.
R17	100'	20+55.94	118.69' LT.	R35	100'	54+08.97	122.48' LT.
R18	108.5'	20+49.45	111.50' LT.				



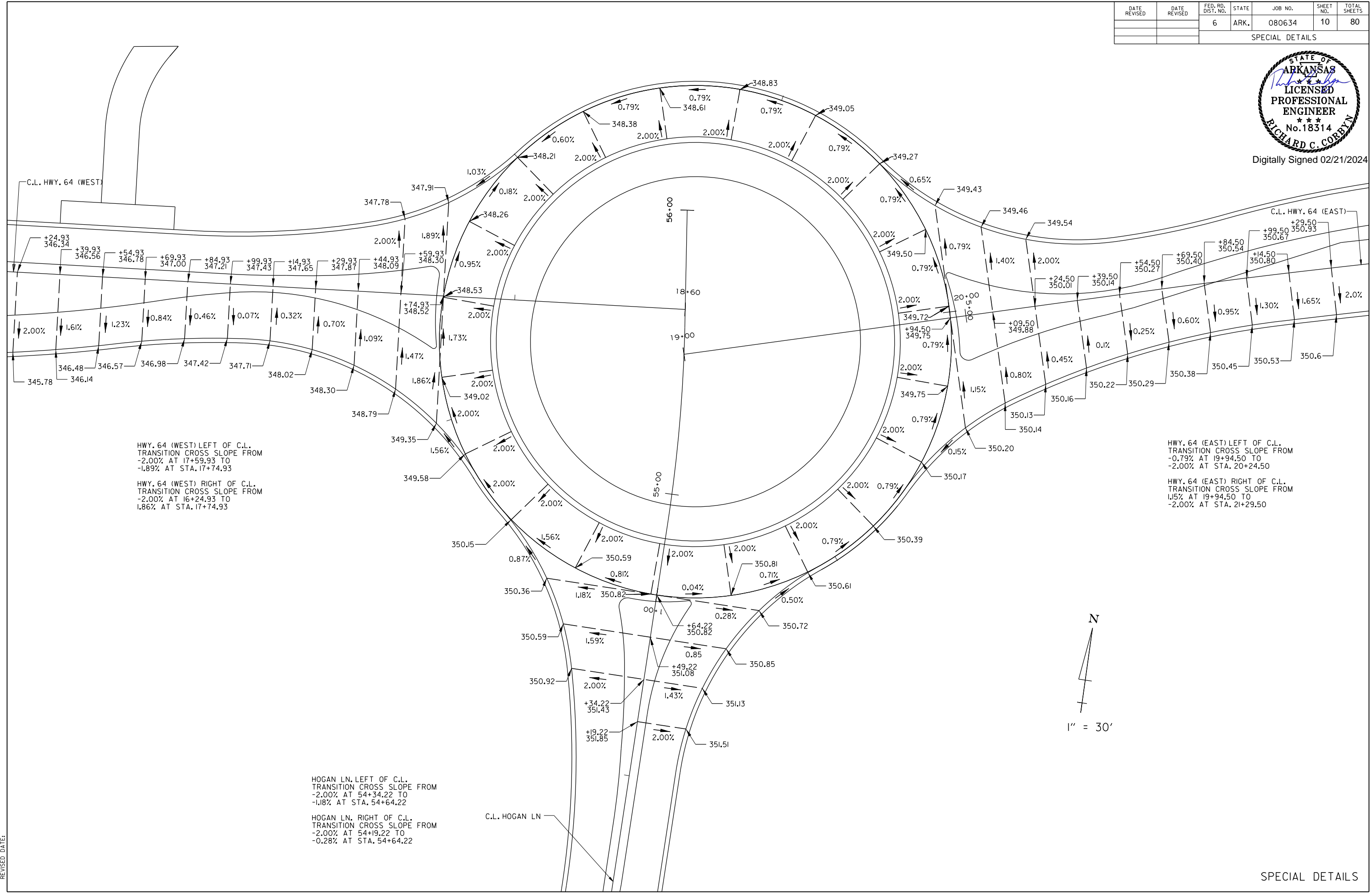
TYPICAL SPLITTER ISLAND DETAILS

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	10	80
SPECIAL DETAILS						



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HWY. 64 (WEST) LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 17+59.93 TO
-1.89% AT STA. 17+74.93

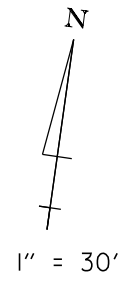
HWY. 64 (WEST) RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 16+24.93 TO
1.86% AT STA. 17+74.93

HWY. 64 (EAST) LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-0.79% AT 19+94.50 TO
-2.00% AT STA. 20+24.50

HWY. 64 (EAST) RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
1.15% AT 19+94.50 TO
-2.00% AT STA. 21+29.50

HOGAN LN. LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 54+34.22 TO
-1.18% AT STA. 54+64.22

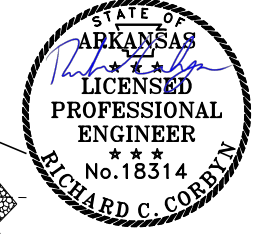
HOGAN LN. RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 54+19.22 TO
-0.28% AT STA. 54+64.22



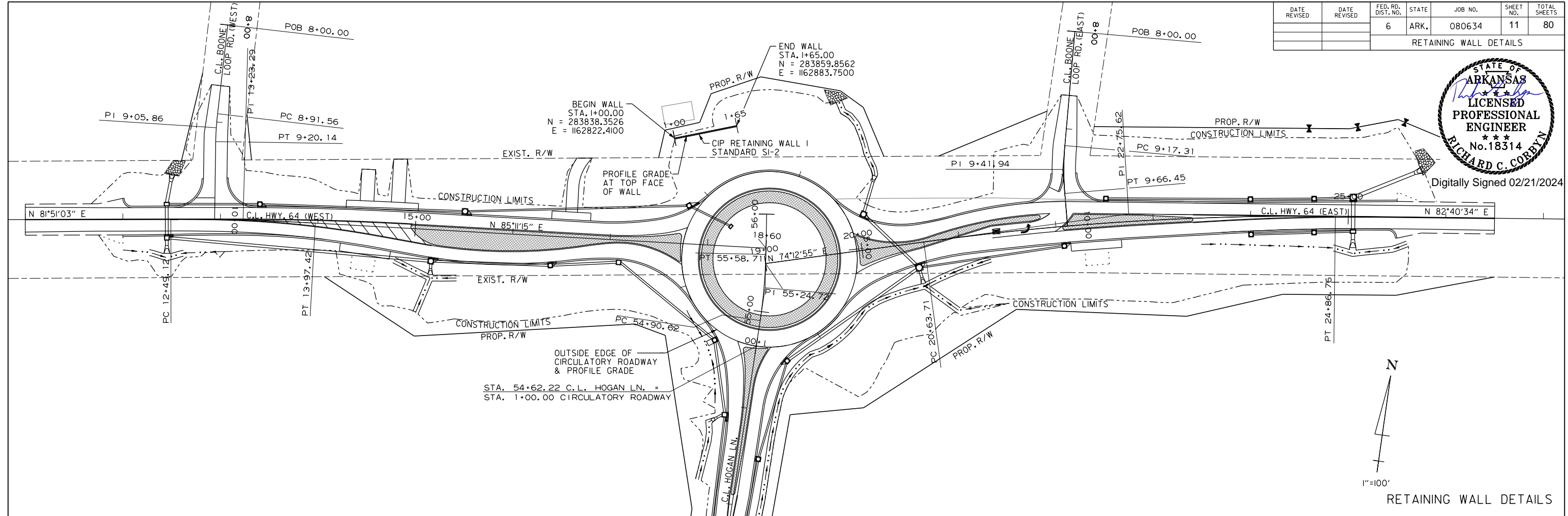
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 REVISED DATE:

SPECIAL DETAILS

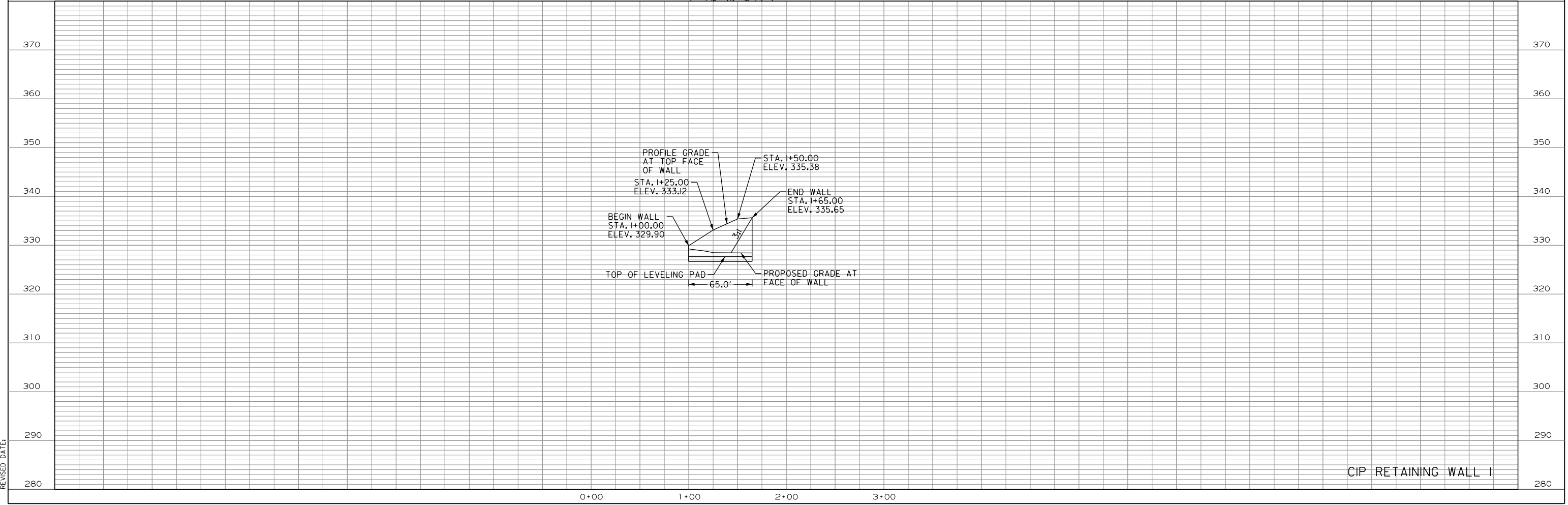
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RETAINING WALL DETAILS						



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RETAINING WALL DETAILS

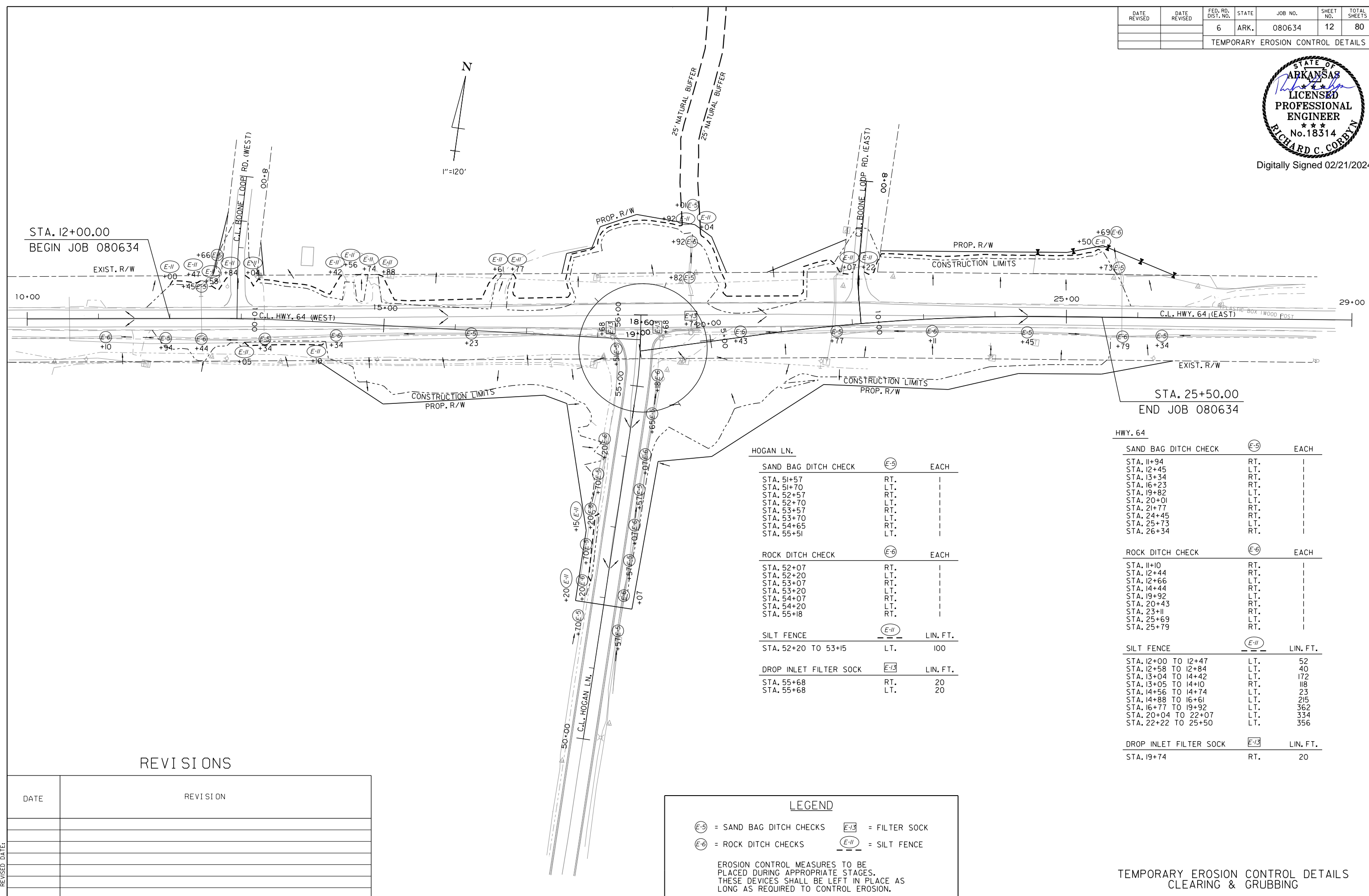


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 REVISED DATE:

DATE REVISED	DATE REVISION	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	12	80
TEMPORARY EROSION CONTROL DETAILS						



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HOGAN LN.			
SAND BAG DITCH CHECK	(E-5)	EACH	
STA. 51+57	RT.		
STA. 51+70	LT.		
STA. 52+57	RT.		
STA. 52+70	LT.		
STA. 53+57	RT.		
STA. 53+70	LT.		
STA. 54+65	RT.		
STA. 55+51	LT.		
ROCK DITCH CHECK	(E-6)	EACH	
STA. 52+07	RT.		
STA. 52+20	LT.		
STA. 53+07	RT.		
STA. 53+20	LT.		
STA. 54+07	RT.		
STA. 54+20	LT.		
STA. 55+18	RT.		
SILT FENCE	(E-11)	LIN. FT.	
STA. 52+20 TO 53+15	LT.	100	
DROP INLET FILTER SOCK	(E-13)	LIN. FT.	
STA. 55+68	RT.	20	
STA. 55+68	LT.	20	

HWY. 64			
SAND BAG DITCH CHECK	(E-5)	EACH	
STA. 11+94	RT.		
STA. 12+45	LT.		
STA. 13+34	RT.		
STA. 16+23	RT.		
STA. 19+82	LT.		
STA. 20+01	LT.		
STA. 21+77	RT.		
STA. 24+45	RT.		
STA. 25+73	LT.		
STA. 26+34	RT.		
ROCK DITCH CHECK	(E-6)	EACH	
STA. 11+10	RT.		
STA. 12+44	RT.		
STA. 12+66	LT.		
STA. 14+44	RT.		
STA. 19+92	LT.		
STA. 20+43	RT.		
STA. 23+11	RT.		
STA. 25+69	LT.		
STA. 25+79	RT.		
SILT FENCE	(E-11)	LIN. FT.	
STA. 12+00 TO 12+47	LT.	52	
STA. 12+58 TO 12+84	LT.	40	
STA. 13+04 TO 14+42	RT.	172	
STA. 13+05 TO 14+10	RT.	118	
STA. 14+56 TO 14+74	LT.	23	
STA. 14+88 TO 16+61	LT.	215	
STA. 16+77 TO 19+92	LT.	362	
STA. 20+04 TO 22+07	LT.	334	
STA. 22+22 TO 25+50	LT.	356	
DROP INLET FILTER SOCK	(E-13)	LIN. FT.	
STA. 19+74	RT.	20	

REVISIONS

DATE	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-11) = SILT FENCE
- (E-13) = FILTER SOCK

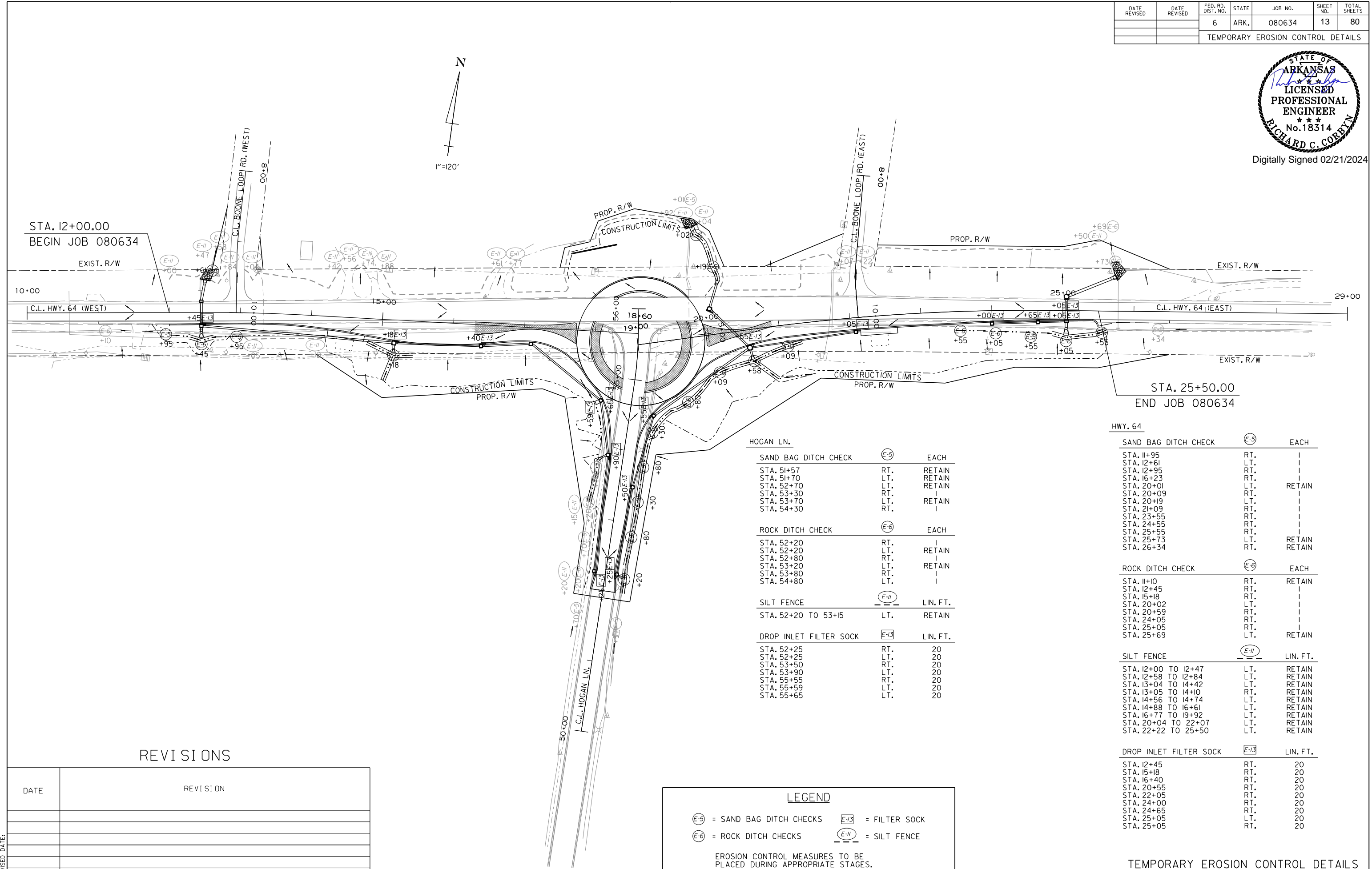
EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

TEMPORARY EROSION CONTROL DETAILS
CLEARING & GRUBBING

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 REVISION DATE:



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HOGAN LN.			
SAND BAG DITCH CHECK	(E-5)		EACH
STA. 51+57	RT.		RETAIN
STA. 51+70	LT.		RETAIN
STA. 52+70	LT.		RETAIN
STA. 53+30	RT.		
STA. 53+70	LT.		RETAIN
STA. 54+30	RT.		
ROCK DITCH CHECK	(E-6)		EACH
STA. 52+20	RT.		
STA. 52+20	LT.		RETAIN
STA. 52+80	RT.		
STA. 53+20	LT.		RETAIN
STA. 53+80	RT.		
STA. 54+80	LT.		
SILT FENCE	(E-11)		LIN. FT.
STA. 52+20 TO 53+15	LT.		RETAIN
DROP INLET FILTER SOCK	(E-13)		LIN. FT.
STA. 52+25	RT.		20
STA. 52+25	LT.		20
STA. 53+50	RT.		20
STA. 53+90	LT.		20
STA. 55+55	RT.		20
STA. 55+59	LT.		20
STA. 55+65	LT.		20

HWY. 64			
SAND BAG DITCH CHECK	(E-5)		EACH
STA. 11+95	RT.		
STA. 12+61	LT.		
STA. 12+95	RT.		
STA. 16+23	RT.		
STA. 20+01	LT.		RETAIN
STA. 20+09	RT.		
STA. 20+19	LT.		
STA. 21+09	RT.		
STA. 23+55	RT.		
STA. 24+55	RT.		
STA. 25+55	RT.		
STA. 25+73	LT.		RETAIN
STA. 26+34	RT.		RETAIN
ROCK DITCH CHECK	(E-6)		EACH
STA. 11+10	RT.		RETAIN
STA. 12+45	RT.		
STA. 15+18	RT.		
STA. 20+02	LT.		
STA. 20+59	RT.		
STA. 24+05	RT.		
STA. 25+05	RT.		
STA. 25+69	LT.		RETAIN
SILT FENCE	(E-11)		LIN. FT.
STA. 12+00 TO 12+47	LT.		RETAIN
STA. 12+58 TO 12+84	LT.		RETAIN
STA. 13+04 TO 14+42	LT.		RETAIN
STA. 13+05 TO 14+10	RT.		RETAIN
STA. 14+56 TO 14+74	LT.		RETAIN
STA. 14+88 TO 16+61	LT.		RETAIN
STA. 16+77 TO 19+92	LT.		RETAIN
STA. 20+04 TO 22+07	LT.		RETAIN
STA. 22+22 TO 25+50	LT.		RETAIN
DROP INLET FILTER SOCK	(E-13)		LIN. FT.
STA. 12+45	RT.		20
STA. 15+18	RT.		20
STA. 16+40	RT.		20
STA. 20+55	RT.		20
STA. 22+05	RT.		20
STA. 24+00	RT.		20
STA. 24+65	RT.		20
STA. 25+05	LT.		20
STA. 25+05	RT.		20

REVISIONS

DATE	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-11) = SILT FENCE
- (E-13) = FILTER SOCK

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

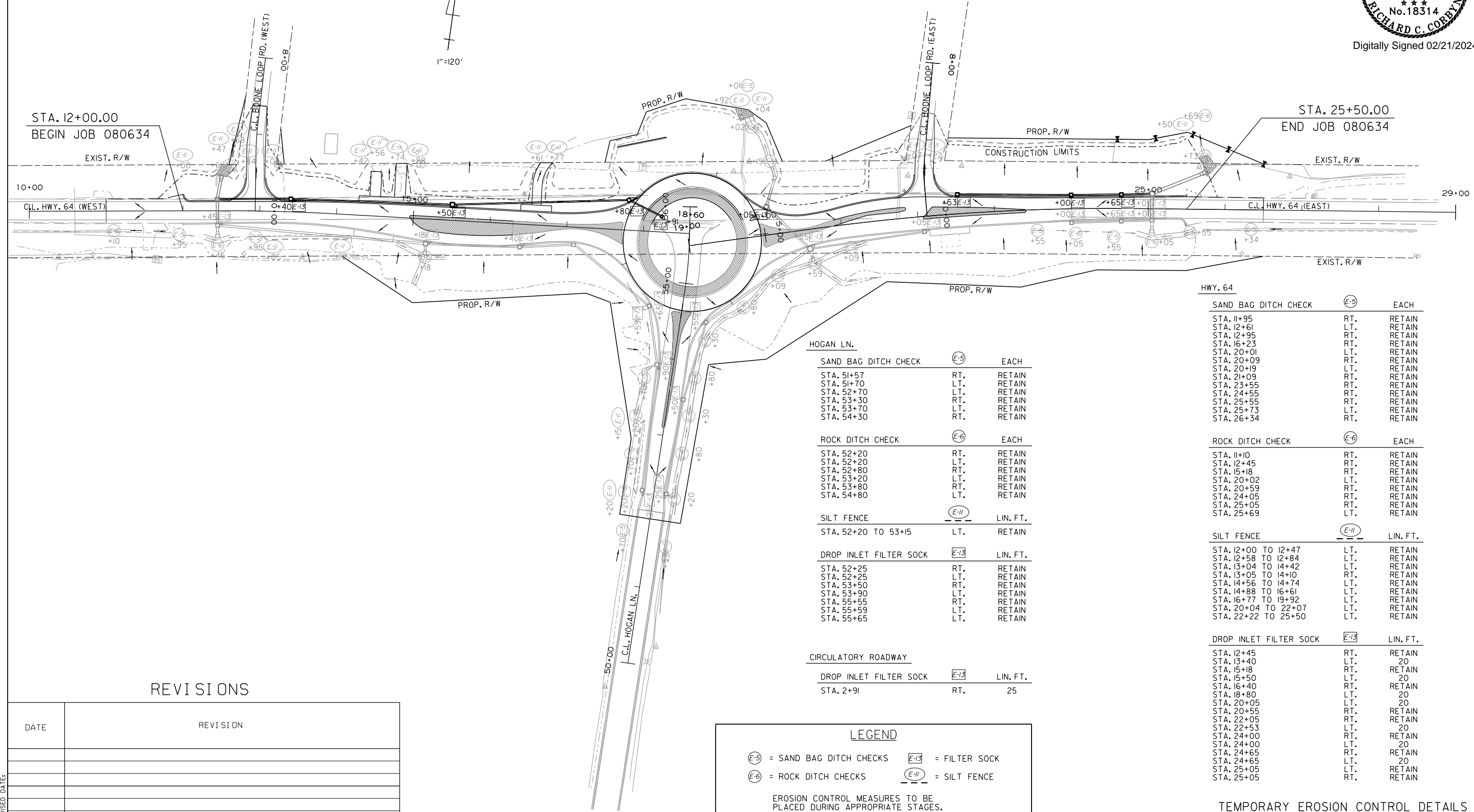
TEMPORARY EROSION CONTROL DETAILS
STAGE I

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	14	80
TEMPORARY EROSION CONTROL DETAILS						



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HOGAN LN.

SAND BAG DITCH CHECK	(E-5)	EACH
STA. 51+57	RT.	RETAIN
STA. 51+70	LT.	RETAIN
STA. 52+70	LT.	RETAIN
STA. 53+30	RT.	RETAIN
STA. 53+70	LT.	RETAIN
STA. 54+30	RT.	RETAIN

ROCK DITCH CHECK

(E-6)	EACH
STA. 52+20	RT. RETAIN
STA. 52+20	LT. RETAIN
STA. 52+80	RT. RETAIN
STA. 53+20	LT. RETAIN
STA. 53+80	RT. RETAIN
STA. 54+80	LT. RETAIN

SILT FENCE

(E-11)	LIN. FT.
STA. 52+20 TO 53+15	LT. RETAIN

DROP INLET FILTER SOCK

(E-13)	LIN. FT.
STA. 52+25	RT. RETAIN
STA. 52+25	LT. RETAIN
STA. 53+50	RT. RETAIN
STA. 53+90	LT. RETAIN
STA. 55+55	RT. RETAIN
STA. 55+59	LT. RETAIN
STA. 55+65	LT. RETAIN

CIRCULATORY ROADWAY

DROP INLET FILTER SOCK	(E-13)	LIN. FT.
STA. 2+91	RT.	25

HWY. 64

SAND BAG DITCH CHECK	(E-5)	EACH
STA. 11+95	RT.	RETAIN
STA. 12+61	LT.	RETAIN
STA. 12+95	RT.	RETAIN
STA. 16+23	RT.	RETAIN
STA. 20+01	LT.	RETAIN
STA. 20+09	RT.	RETAIN
STA. 20+19	LT.	RETAIN
STA. 21+09	RT.	RETAIN
STA. 23+55	RT.	RETAIN
STA. 24+55	RT.	RETAIN
STA. 25+55	RT.	RETAIN
STA. 25+73	LT.	RETAIN
STA. 26+34	RT.	RETAIN

ROCK DITCH CHECK

(E-6)	EACH
STA. 11+10	RT. RETAIN
STA. 12+45	RT. RETAIN
STA. 15+18	RT. RETAIN
STA. 20+02	LT. RETAIN
STA. 20+59	RT. RETAIN
STA. 24+05	RT. RETAIN
STA. 25+05	RT. RETAIN
STA. 25+69	LT. RETAIN

SILT FENCE

(E-11)	LIN. FT.
STA. 12+00 TO 12+47	LT. RETAIN
STA. 12+58 TO 12+84	LT. RETAIN
STA. 13+04 TO 14+42	LT. RETAIN
STA. 13+05 TO 14+10	RT. RETAIN
STA. 14+56 TO 14+74	LT. RETAIN
STA. 14+88 TO 16+61	LT. RETAIN
STA. 16+77 TO 19+92	LT. RETAIN
STA. 20+04 TO 22+07	LT. RETAIN
STA. 22+22 TO 25+50	LT. RETAIN

DROP INLET FILTER SOCK

(E-13)	LIN. FT.
STA. 12+45	RT. RETAIN
STA. 13+40	LT. 20
STA. 15+18	RT. RETAIN
STA. 15+50	LT. 20
STA. 16+40	RT. RETAIN
STA. 18+80	LT. 20
STA. 20+05	LT. 20
STA. 20+55	RT. RETAIN
STA. 22+05	RT. RETAIN
STA. 22+53	LT. 20
STA. 24+00	RT. RETAIN
STA. 24+00	LT. 20
STA. 24+65	RT. RETAIN
STA. 24+65	LT. 20
STA. 25+05	LT. RETAIN
STA. 25+05	RT. RETAIN

REVISIONS

DATE	REVISION

LEGEND

(E-5) = SAND BAG DITCH CHECKS (E-13) = FILTER SOCK
(E-6) = ROCK DITCH CHECKS (E-11) = SILT FENCE

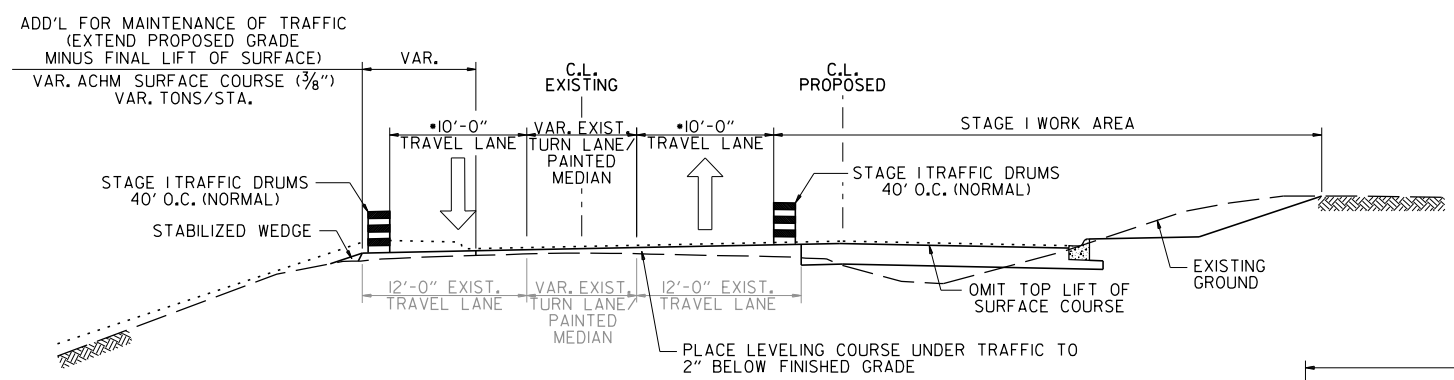
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REVISED DATE:

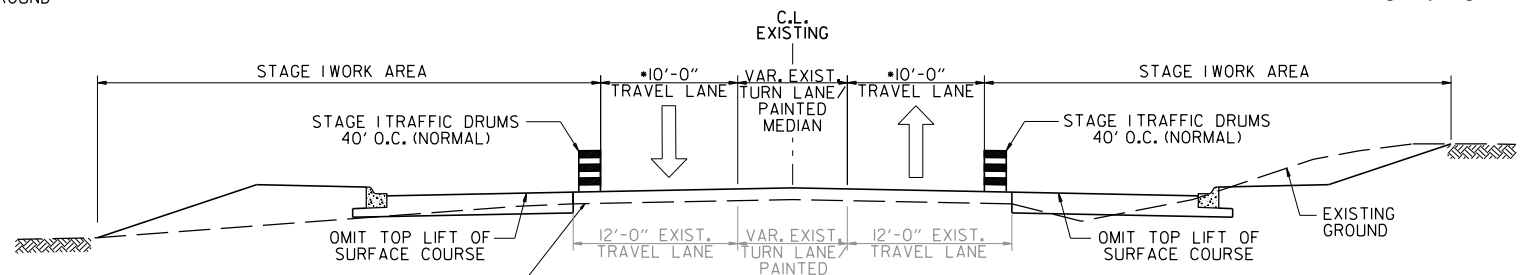
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	15	80
MAINTENANCE OF TRAFFIC DETAILS						



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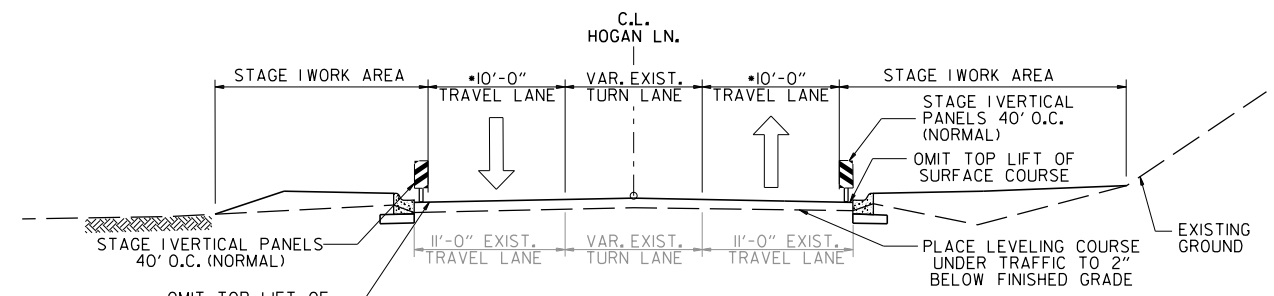


**STAGE I
HWY. 64 TYPICAL SECTION**
STA. 12+00.00 TO STA. 17+91.00
STA. 19+80.00 TO STA. 25+50.00

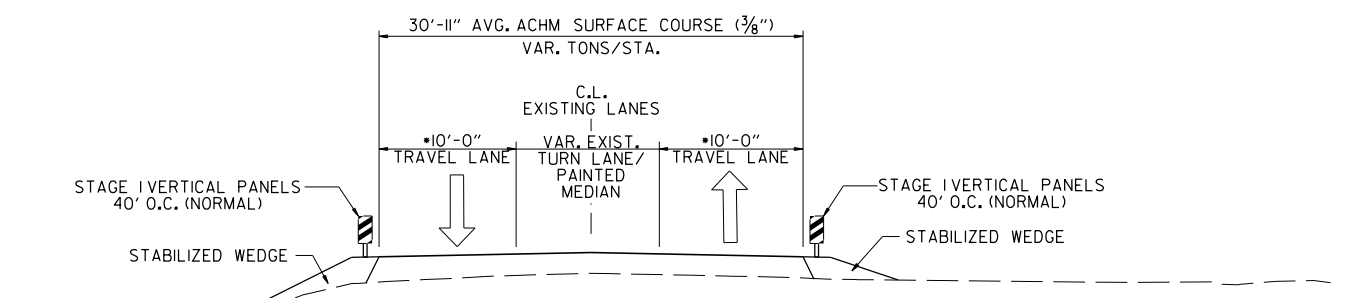


**STAGE I
HWY. 64 TYPICAL SECTION**
STA. 17+91.00 TO STA. 19+80.00

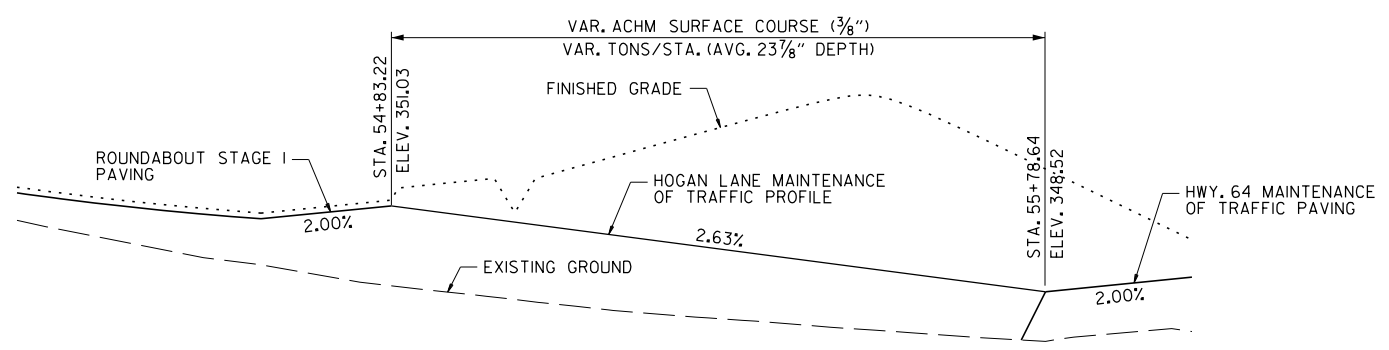
• A MINIMUM LANE WIDTH OF 10' SHALL BE MAINTAINED DURING CONSTRUCTION. WHERE FEASIBLE, 11' LANES SHALL BE UTILIZED.



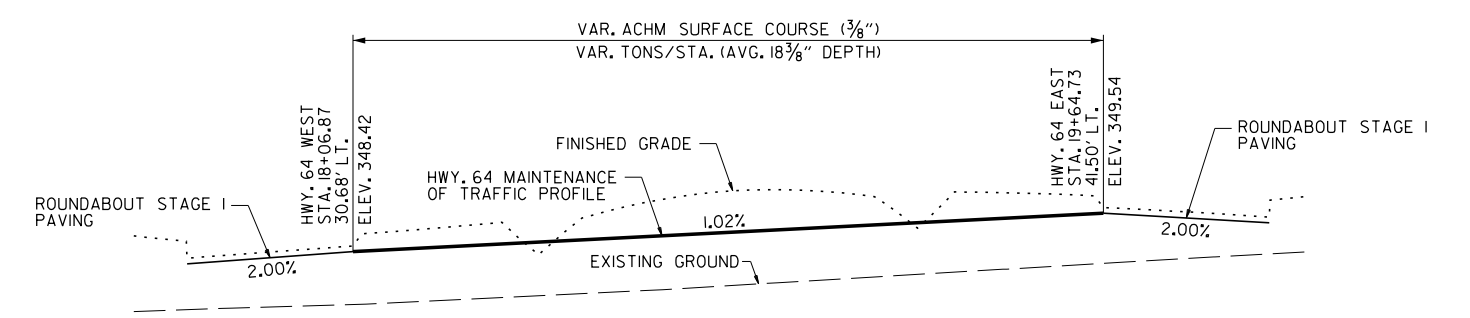
**STAGE I
HOGAN LN. TYPICAL SECTION**
STA. 52+00.00 TO STA. 54+83.22



STAGE I TYPICAL SECTION
HOGAN LN. STA. 54+83.22 TO STA. 55+78.64



HOGAN LANE STAGE I PROFILE



HWY. 64 STAGE I PROFILE

2/20/2024 9:43:48 AM
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 REVISED DATE:

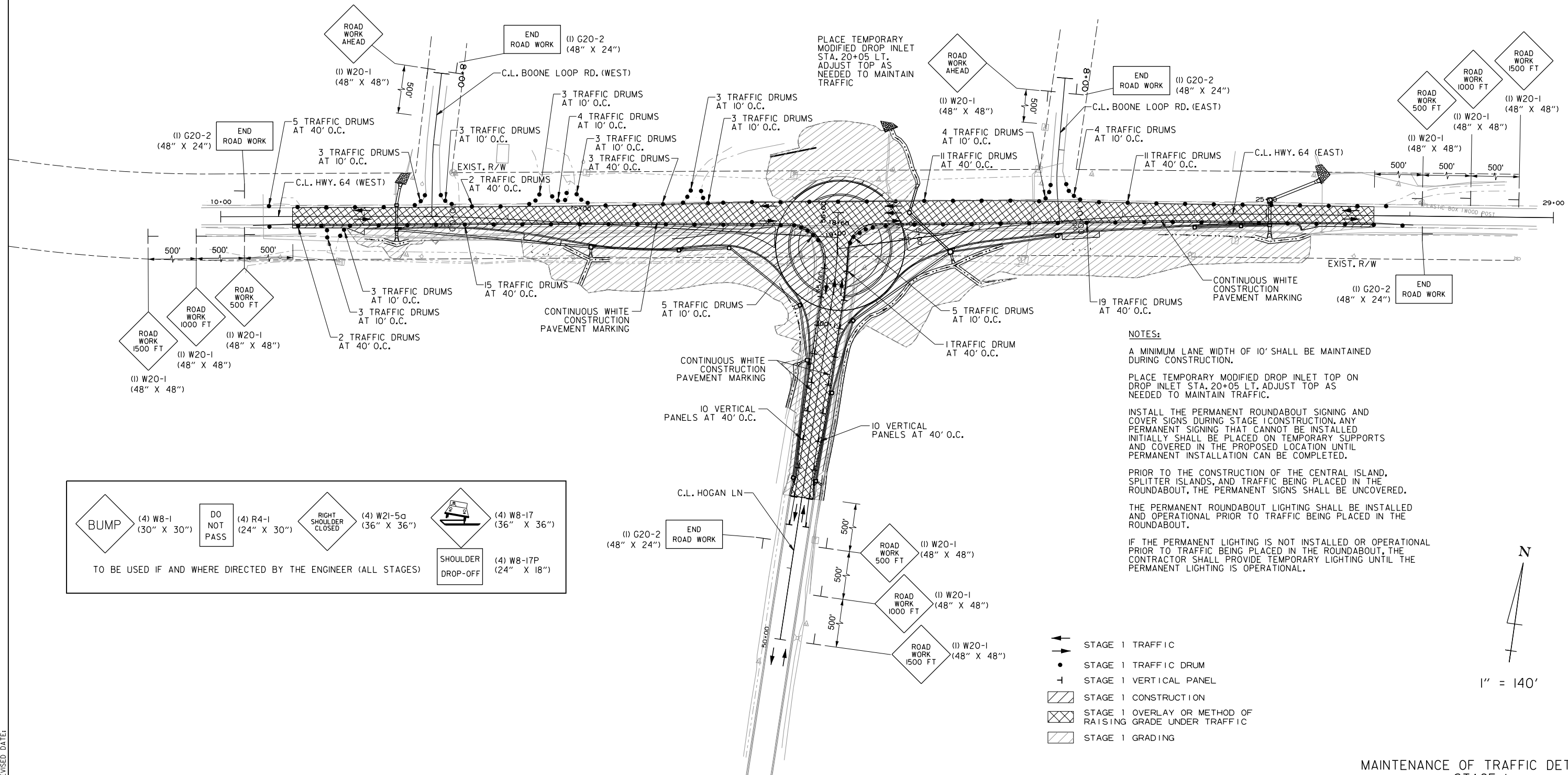
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	16	80
MAINTENANCE OF TRAFFIC DETAILS						

STAGE 1 CONSTRUCTION SEQUENCE NOTES:

- 1) MAINTAIN TRAFFIC ON EXISTING LANES.
- 2) INSTALL ADVANCE WARNING SIGNS, CHANNELIZING DEVICES, AND CONSTRUCTION STRIPING AS SHOWN.
- 3) CONSTRUCT DRAINAGE STRUCTURES AS SHOWN.
- 4) CONSTRUCT NOTCH AND WIDEN SECTIONS OF HWY. 64, CIRCULATORY ROADWAY, AND HOGAN LN AS SHOWN TO WITHIN 2' OF FINAL GRADE.
- 5) CONSTRUCT HWY. 64 (WEST) SPLITTER ISLAND FROM STA. 16+30 TO STA. 17+74 AND HWY. 64 (EAST) SPLITTER ISLAND FROM STA. 19+94 TO STA. 20+90.
- 6) OVERLAY OR METHOD OF RAISING GRADE UNDER TRAFFIC ON HWY. 64 AND HOGAN LN. TO WITHIN 2' OF FINAL GRADE.



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NOTES:

A MINIMUM LANE WIDTH OF 10' SHALL BE MAINTAINED DURING CONSTRUCTION.

PLACE TEMPORARY MODIFIED DROP INLET TOP ON DROP INLET STA. 20+05 LT. ADJUST TOP AS NEEDED TO MAINTAIN TRAFFIC.

INSTALL THE PERMANENT ROUNDABOUT SIGNING AND COVER SIGNS DURING STAGE I CONSTRUCTION. ANY PERMANENT SIGNING THAT CANNOT BE INSTALLED INITIALLY SHALL BE PLACED ON TEMPORARY SUPPORTS AND COVERED IN THE PROPOSED LOCATION UNTIL PERMANENT INSTALLATION CAN BE COMPLETED.

PRIOR TO THE CONSTRUCTION OF THE CENTRAL ISLAND, SPLITTER ISLANDS, AND TRAFFIC BEING PLACED IN THE ROUNDABOUT, THE PERMANENT SIGNS SHALL BE UNCOVERED.

THE PERMANENT ROUNDABOUT LIGHTING SHALL BE INSTALLED AND OPERATIONAL PRIOR TO TRAFFIC BEING PLACED IN THE ROUNDABOUT.

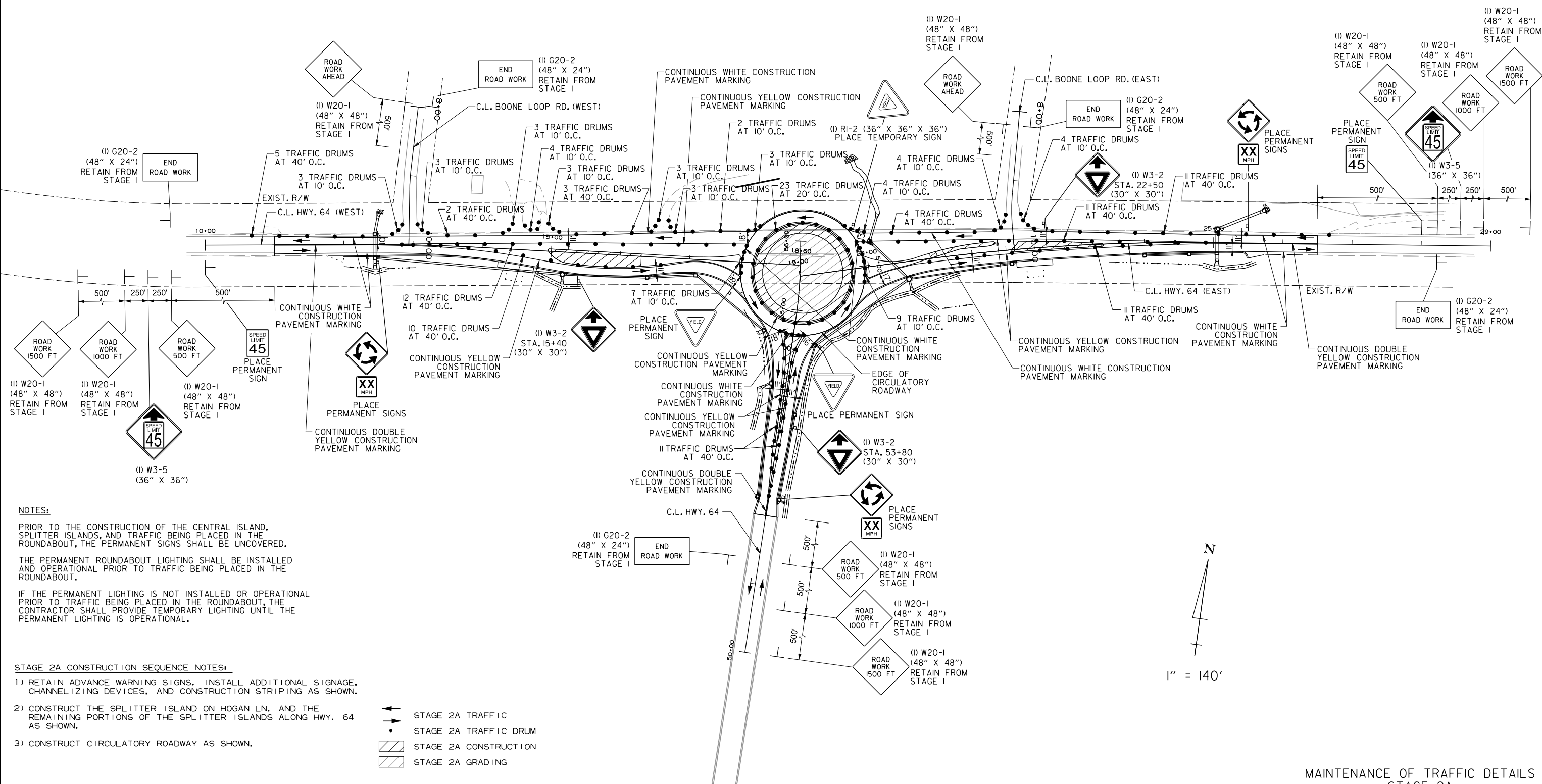
IF THE PERMANENT LIGHTING IS NOT INSTALLED OR OPERATIONAL PRIOR TO TRAFFIC BEING PLACED IN THE ROUNDABOUT, THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING UNTIL THE PERMANENT LIGHTING IS OPERATIONAL.

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	17	80
MAINTENANCE OF TRAFFIC DETAILS						



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NOTES:

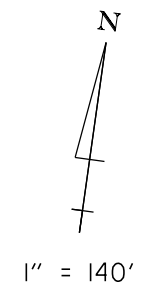
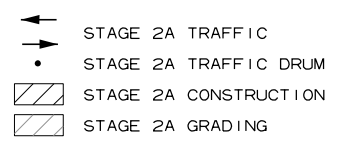
PRIOR TO THE CONSTRUCTION OF THE CENTRAL ISLAND, SPLITTER ISLANDS, AND TRAFFIC BEING PLACED IN THE ROUNDABOUT, THE PERMANENT SIGNS SHALL BE UNCOVERED.

THE PERMANENT ROUNDABOUT LIGHTING SHALL BE INSTALLED AND OPERATIONAL PRIOR TO TRAFFIC BEING PLACED IN THE ROUNDABOUT.

IF THE PERMANENT LIGHTING IS NOT INSTALLED OR OPERATIONAL PRIOR TO TRAFFIC BEING PLACED IN THE ROUNDABOUT, THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING UNTIL THE PERMANENT LIGHTING IS OPERATIONAL.

STAGE 2A CONSTRUCTION SEQUENCE NOTES:

- 1) RETAIN ADVANCE WARNING SIGNS. INSTALL ADDITIONAL SIGNAGE, CHANNELIZING DEVICES, AND CONSTRUCTION STRIPING AS SHOWN.
- 2) CONSTRUCT THE SPLITTER ISLAND ON HOGAN LN. AND THE REMAINING PORTIONS OF THE SPLITTER ISLANDS ALONG HWY. 64 AS SHOWN.
- 3) CONSTRUCT CIRCULATORY ROADWAY AS SHOWN.

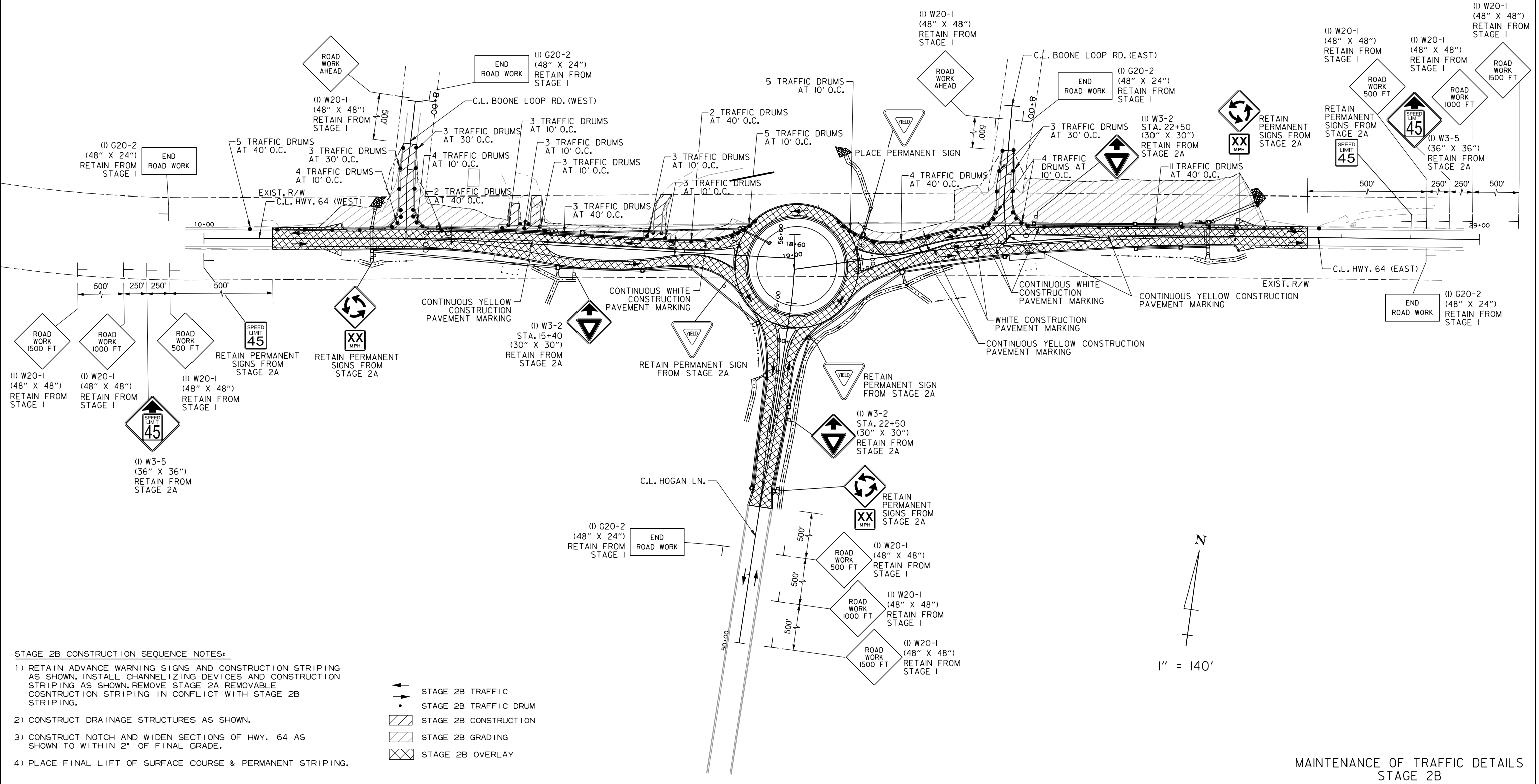


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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	18	80
MAINTENANCE OF TRAFFIC DETAILS						

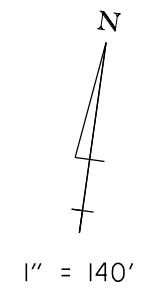
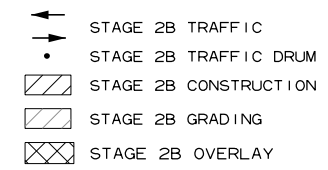


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STAGE 2B CONSTRUCTION SEQUENCE NOTES:

- 1) RETAIN ADVANCE WARNING SIGNS AND CONSTRUCTION STRIPING AS SHOWN. INSTALL CHANNELIZING DEVICES AND CONSTRUCTION STRIPING AS SHOWN. REMOVE STAGE 2A REMOVABLE CONSTRUCTION STRIPING IN CONFLICT WITH STAGE 2B STRIPING.
- 2) CONSTRUCT DRAINAGE STRUCTURES AS SHOWN.
- 3) CONSTRUCT NOTCH AND WIDEN SECTIONS OF HWY. 64 AS SHOWN TO WITHIN 2" OF FINAL GRADE.
- 4) PLACE FINAL LIFT OF SURFACE COURSE & PERMANENT STRIPING.



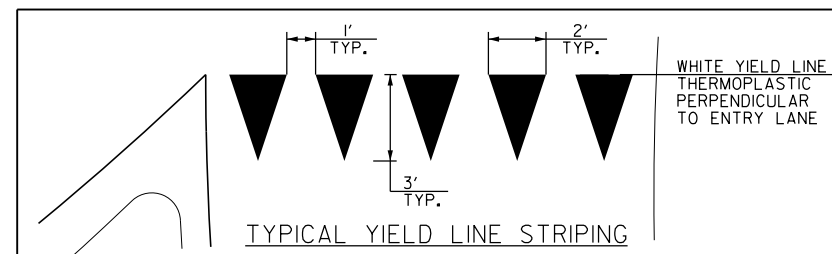
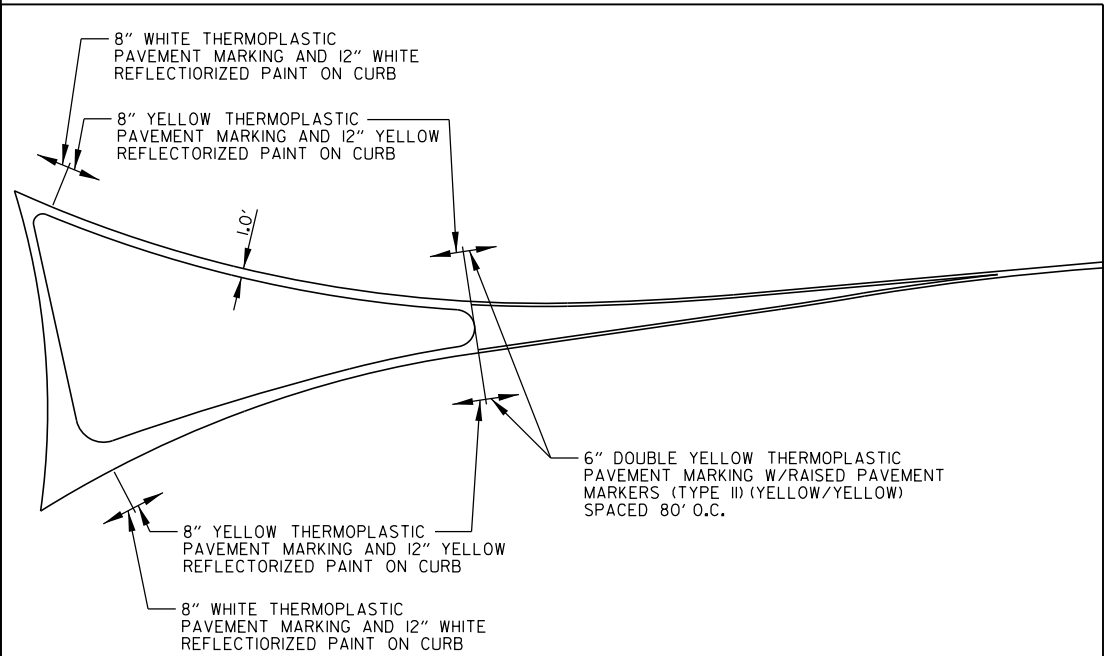
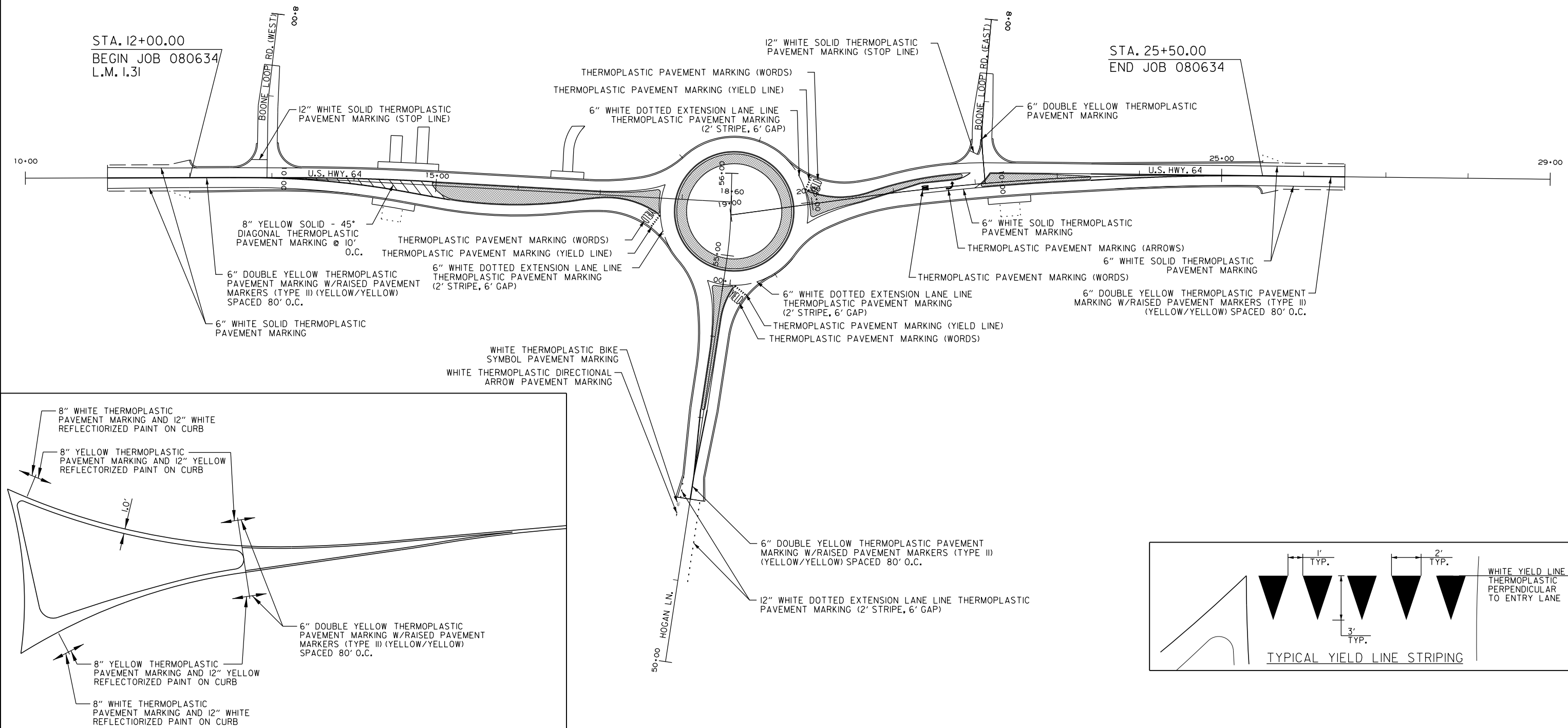
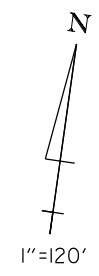
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**MAINTENANCE OF TRAFFIC DETAILS
STAGE 2B**

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	19	80
PERMANENT PAVEMENT MARKING DETAILS						



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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	20	80
SOIL BORING LOG						



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SOIL BORING LOG

BORING NO.	APPROX. STATION	SAMPLE	WATER	ATTERBERG LIMITS			PERCENT PASSING #200	UNIFIED CLASS.	AASHTO CLASS.
				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY			
B-S378	14+00	0-5	16	41	21	20	68	-	A-7-6
B-S379	14+00	0-5	9	38	21	17	70	-	A-6
B-S380	21+00	0-5	14	25	16	9	59	-	A-4
B-S381	21+00	0-5	10	34	19	15	59	-	A-6
B-RV382	21+00	0-5	-	29	18	11	49	-	A-6

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATION OF THE SAMPLE, AND FROM SURFACE INDICATIONS ARE TYPICAL FOR THE LIMIT SHOWN. THESE DATA ARE SHOWN FOR INFORMATION ONLY. THE STATE WILL NOT BE RESPONSIBLE FOR VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATIONS.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	21	80
QUANTITIES						



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CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	STAGE 1	STAGE 2A	STAGE 2B	END OF JOB	CONSTRUCTION PAVEMENT MARKINGS	CONSTRUCTION PAVEMENT MARKINGS		REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS	THERMOPLASTIC PAVEMENT MARKING							REFLECTORIZED PAINT PAVEMENT MARKING										
						WORDS	ARROWS			LIN. FT.	TYPE II (YELLOW/YELLOW)	6"		8"	12"	YIELD LINE	WORDS	ARROWS	BIKE EMBLEMS	12"							
												WHITE	YELLOW							WHITE	YELLOW	WHITE	YELLOW				
LIN. FT. - EACH					LIN. FT.	EACH		LIN. FT.	EACH	LIN. FT.							EACH		LIN. FT.								
CONSTRUCTION PAVEMENT MARKINGS	2398	5545	1941					9884																			
CONSTRUCTION PAVEMENT MARKINGS (WORDS)		1																									
CONSTRUCTION PAVEMENT MARKINGS (ARROWS)		1					1																				
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS																											
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW)																											
THERMOPLASTIC PAVEMENT MARKING WHITE (6")																											
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")																											
THERMOPLASTIC PAVEMENT MARKING YELLOW (8")																											
THERMOPLASTIC PAVEMENT MARKING WHITE (12")																											
THERMOPLASTIC PAVEMENT MARKING (YIELD LINE)																											
THERMOPLASTIC PAVEMENT MARKING (WORDS)																											
THERMOPLASTIC PAVEMENT MARKING (ARROWS)																											
THERMOPLASTIC PAVEMENT MARKING (BIKE EMBLEMS)																											
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")																											
REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (12")																											
TOTALS:								9884																			

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	STAGE 2A	STAGE 2B	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED	VERTICAL PANELS	TRAFFIC DRUMS
W3-2	YIELD AHEAD	30"x30"		3	3	3	18.8		
W3-5	REDUCED SPEED LIMIT AHEAD	36"x36"		2	2	2	18.0		
W20-1	ROAD WORK 1500 FT.	48"x48"	3	3	3	3	48.0		
W20-1	ROAD WORK 1000 FT.	48"x48"	3	3	3	3	48.0		
W20-1	ROAD WORK 500 FT.	48"x48"	3	3	3	3	48.0		
W20-1	ROAD WORK AHEAD	48"x48"	2	2	2	2	32.0		
G20-2	END ROAD WORK	48"x24"	5	5	5	5	40.0		
R1-2	YIELD	36"x36"x36"		1		1	3.9		
	VERTICAL PANELS		20			20		20	
	TRAFFIC DRUMS		114	174	80	174			174
TOTALS:							256.7	20	174

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

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QUANTITIES

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	22	80
QUANTITIES						



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CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	STATION
12+00	18+60	HWY. 64 (WEST)	7	7
19+00	25+50	HWY. 64 (EAST)	7	7
52+00	55+49	HOGAN LN.	4	4
TOTALS:			18	18

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS

STATION	DESCRIPTION	PIPE CULVERTS	DROP INLETS
		EACH	EACH
18+21	HWY. 64 (WEST) LT.		1
19+31	HWY. 64 (EAST) LT.		1
19+74	HWY. 64 (EAST) LT.		1
17+10	HWY. 64 (WEST) LT.	1	
55+08	HOGAN LN. LT.	1	
55+25	HOGAN LN. RT.	1	
19+34	HWY. 64 (EAST) RT.	1	
19+77	HWY. 64 (EAST) RT.	1	
TOTALS:		5	3

NOTE: QUANTITIES SHOWN ABOVE SHALL INCLUDE REMOVAL & DISPOSAL OF ALL HEADWALLS AND FLARED END SECTIONS IF APPLICABLE.

SOIL STABILIZATION

STATION	STATION	LOCATION / DESCRIPTION	SOIL STABILIZATION TON
ENTIRE	PROJECT	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	100
TOTAL:			100

QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STD. SPECS.

REMOVAL AND DISPOSAL OF FENCE

STATION	STATION	LOCATION	FENCE
			LIN. FT.
24+57	26+50	HWY. 64 (EAST) LT.	266
TOTAL:			266

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	CU. YD.
ENTIRE	PROJECT	HWY. 64 EAST - STAGE 1	6810	297
ENTIRE	PROJECT	HWY. 64 EAST - STAGE 2	39	2167
ENTIRE	PROJECT	HWY. 64 WEST - STAGE 1	6064	436
ENTIRE	PROJECT	HWY. 64 WEST - STAGE 2	50	524
ENTIRE	PROJECT	HOGAN LANE - STAGE 1	268	195
ENTIRE	PROJECT	CIRCULATORY ROADWAY - STAGE 1	2465	3540
ENTIRE	PROJECT	CIRCULATORY ROADWAY - STAGE 2		1433
ENTIRE	PROJECT	DRIVEWAYS	35	
TOTALS:			15731	8592

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

FLOWABLE SELECT MATERIAL

STATION	LOCATION	CU. YD.
19+78	HWY. 64 (EAST)	6
25+78	HWY. 64 (EAST)	5
TOTAL:		11

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
11+00.00	12+00.00	HWY. 64 (WEST) TRANSITION	32.07	356.32
12+00.00	15+55.00	HWY. 64 (WEST) MAINLANES	17.09	674.14
52+00.00	53+42.26	HOGAN LN.	24.64	389.41
24+20.00	25+50.00	HWY. 64 (EAST) MAINLANES	27.38	395.42
25+50.00	26+50.00	HWY. 64 (EAST) TRANSITION	32.00	355.56
08+62.57	09+11.95	BOONE LOOP WEST	18.36	100.71
08+65.71	09+15.71	BOONE LOOP EAST	15.67	87.07
TOTAL:				2358.63

NOTE: COORDINATE COLD MILLING STOCKPILE LOCATIONS WITH DISTRICT ENGINEER. STOCKPILE LOCATION SHALL BE NO FURTHER THAN FIVE MILES FROM EACH SITE.

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC

LOCATION	TON	TACK COAT
		GALLON
ENTIRE PROJECT - TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	10	20
TOTALS:		10 20

BASIS OF ESTIMATE:
ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC...25 TON/MILE
TACK COAT FOR MAINTENANCE OF TRAFFIC.....50 GAL./MILE

REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB AND GUTTER	HEADWALLS	SIGNS
			LIN. FT.	EACH	EACH
11+00	11+00	HWY. 64 (WEST) RT.			1
12+41	12+47	HWY. 64 (WEST) LT.		1	
12+42	12+42	HWY. 64 (WEST) RT.			1
12+42	12+47	HWY. 64 (WEST) RT.		1	
12+74	12+74	HWY. 64 (EAST) LT.			1
16+09	16+09	HWY. 64 (EAST) LT.			1
19+25	19+25	HWY. 64 (EAST) LT.			1
19+77	19+85	HWY. 64 (EAST) LT.		1	
19+83	19+83	HWY. 64 (EAST) LT.			1
21+93	21+93	HWY. 64 (EAST) LT.			1
25+75	25+80	HWY. 64 (EAST) LT.		1	
25+75	25+81	HWY. 64 (EAST) RT.		1	
25+78	25+78	HWY. 64 (EAST) RT.			1
25+96	25+96	HWY. 64 (EAST) LT.			1
52+00	55+76	HOGAN LN. LT.	388		
52+00	55+80	HOGAN LN. RT.	421		
TOTALS:			809	5	9

CONCRETE BASE

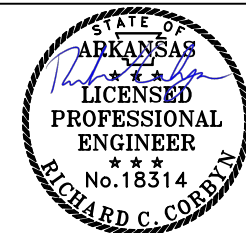
STATION	STATION	LOCATION	LENGTH	PORTLAND CEMENT CONCRETE BASE			
				AVG. WID.	10" U.T.	AVG. WID.	5" U.T.
				FEET	FEET	SQ. YD.	FEET
11+75.00	13+47.61	HWY. 64 (WEST) RT. - NOTCH AND WIDEN	172.61	5.43	104.20	3.30	63.38
11+75.00	12+52.66	HWY. 64 (WEST) LT. - NOTCH AND WIDEN	77.66	2.78	24.03	0.98	8.43
13+36.07	17+96.35	HWY. 64 (WEST) LT. - NOTCH AND WIDEN	460.28	2.57	131.23	0.02	1.04
52+00.00	54+06.56	HOGAN LN. LT. - NOTCH AND WIDEN	206.56	2.91	66.70	0.38	8.75
52+00.00	54+31.76	HOGAN LN. RT. - NOTCH AND WIDEN	231.76	2.74	70.55	0.23	5.88
19+75.22	21+71.48	HWY. 64 (EAST) LT. - NOTCH AND WIDEN	196.26	2.71	59.02	0.04	0.89
22+51.48	25+75.00	HWY. 64 (EAST) LT. - NOTCH AND WIDEN	323.52	3.43	123.38	1.11	40.01
23+94.97	25+75.00	HWY. 64 (EAST) RT. - NOTCH AND WIDEN	180.03	3.69	73.77	1.49	29.87
9+56.34	9+88.34	BOONE LP. (WEST) RT. - NOTCH AND WIDEN	30.00	7.69	25.64	3.97	13.22
9+57.16	9+87.16	BOONE LP. (WEST) LT. - NOTCH AND WIDEN	30.00	5.87	19.56	2.08	6.93
8+65.71	9+46.14	BOONE LP. (EAST) RT. - NOTCH AND WIDEN	80.43	2.52	22.56	1.19	10.65
8+65.71	9+45.62	BOONE LP. (EAST) LT. - NOTCH AND WIDEN	79.91	1.39	12.33		
TOTALS:					732.97		189.05

CONCRETE PAVEMENT

STATION	STATION	LOCATION	LENGTH	PORTLAND CEMENT CONCRETE PAVEMENT	
				AVG. WIDTH	11" U.T.
				LIN. FT.	SQ. YD.
1+00	6+65	ROUNDAABOUT - TRUCK APRON	402	12	536
TOTAL:					536

QUANTITIES

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6/10/2024		6	ARK.	080634	23	80

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
12+27.00	12+62.00	HWY. 64 (WEST) RT.	36.00	6.00	24.00	16.00	0.20
14+80.00	15+45.00	HWY. 64 (WEST) RT.	69.00	6.00	46.00	30.67	0.39
15+05.00	15+18.00	HWY. 64 (WEST) RT.	36.00	6.00	24.00	16.00	0.20
19+84.22	20+58.00	HWY. 64 (EAST) RT.	81.00	6.00	54.00	36.00	0.45
20+58.00	21+30.00	HWY. 64 (EAST) RT.	74.00	6.00	49.33	32.89	0.41
20+58.00	20+90.00	HWY. 64 (EAST) RT.	39.00	6.00	26.00	17.33	0.22
23+13.00	25+54.00	HWY. 64 (EAST) RT.	281.00	4.00	124.89	124.89	1.57
24+85.00	25+60.00	HWY. 64 (EAST) RT.	81.00	6.00	54.00	36.00	0.45
19+96.00	20+23.00	HWY. 64 (EAST) LT.	88.00	6.00	58.67	39.11	0.49
05+66.63	06+06.38	CIRCULATORY ROADWAY	49.00	6.00	32.67	21.78	0.27
52+00.00	52+35.00	HOGAN LN. RT.	35.00	6.00	23.33	15.56	0.20
52+40.00	54+68.89	HOGAN LN. RT.	242.00	6.00	161.33	107.56	1.36
53+20.00	53+80.00	HOGAN LN. LT.	64.00	6.00	42.67	28.44	0.36
TOTALS:					720.89	522.23	6.57

BASIS OF ESTIMATE:
WATER..... 12.6 GAL. / SQ. YD. OF SOLID SODDING.

DRIVEWAYS & TURNOUTS

STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (3/8") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)	STANDARD DRAWINGS
			FEET	STATION	STATION		SQ. YD.	SQ. YD.		
14+49	LT.	HWY. 64 WEST	14	14+28	14+65	32.92	50.34	5.54	20.56	DR-1
14+50	RT.	HWY. 64 WEST	24	14+24	14+76	46.22				DR-1
14+81	LT.	HWY. 64 WEST	14	14+65	15+02	32.85	69.01	7.59	28.18	DR-1
16+59	LT.	HWY. 64 WEST	12	16+39	16+79	35.56	77.47	8.52	31.63	DR-1
22+40	RT.	HWY. 64 WEST	24	22+14	22+66	46.22				DR-1
* ENTIRE PROJECT TEMPORARY DRIVES										100.00
TOTALS:						193.77	196.82	21.65	180.37	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8")..... 93.7% MIN. AGGR..... 6.3% ASPHALT BINDER
THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

* QUANTITY ESTIMATED
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

** FOR INFORMATION ONLY

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	LOCATION	WIDTH	LENGTH	TON
		FEET	FEET	
12+45	HWY. 64 (WEST)	9.67	25.26	24
17+93	HWY. 64 (WEST)	7.92	23.13	18
20+15	HWY. 64 (EAST)	9.08	21.8	19
20+11	HWY. 64 (EAST)	9.08	14.94	13
25+05	HWY. 64 (EAST)	10.25	27.42	27
TOTAL:				101

AVG. DEPTH = 16"

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	210
TOTAL:	210

NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

FENCING

STATION	STATION	LOCATION	WIRE FENCE
			(TYPE A) LIN. FT.
24+57	26+50	HWY. 64 (EAST) LT.	203
TOTAL:			203

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL						TEMPORARY EROSION CONTROL										
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SOLID SODDING	TEMPORARY SEEDING	MULCH COVER	WATER	FILTER SOCKS (18")	SAND BAG DITCH CHECKS	ROCK DITCH CHECKS	DROP INLET SILT FENCE	SILT FENCE	SEDIMENT BASIN	OBLITERATION OF SEDIMENT BASIN	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	SQ.YD.	ACRE	ACRE	M.GAL.	(E-13) LIN. FT.	(E-5) BAG	(E-6) CU.YD.	(E-7) LIN. FT.	(E-11) LIN. FT.	(E-14) CU.YD.	CU.YD.	CU. YD.
ENTIRE PROJECT	PROJECT	CLEARING AND GRUBBING																	102
ENTIRE PROJECT	PROJECT	STAGE 1																	38
ENTIRE PROJECT	PROJECT	STAGE 2																	7
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			3.97	7.94	3.97	452.6	3.97	3786	4.77	4.77	97.3	100	100		100		100	104	
TOTALS:			3.97	7.94	3.97	452.6	3.97	3786	4.77	4.77	97.3	675	760	78	100	1772	100	100	251

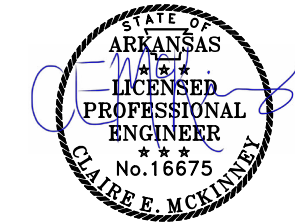
BASIS OF ESTIMATE:
LIME 2 TONS / ACRE OF SEEDING
WATER 102.0 M.G. / ACRE OF SEEDING
WATER 20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER 12.6 GAL. / SQ. YD. OF SOLID SODDING
FILTER SOCKS 23 LIN. FT./LOCATION
SAND BAG DITCH CHECKS 22 BAGS / LOCATION
ROCK DITCH CHECKS 3 CU.YD./LOCATION

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	26	80
SIGN QUANTITIES						



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SUMMARY OF SIGNING QUANTITIES			
ITEM NUMBER	ITEM	UNIT	ESTIMATED QUANTITY
SS & 725	GUIDE SIGN - ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	SQ. FT.	85
SS & 726	STANDARD SIGN	SQ. FT.	176
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	EACH	15
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-2)	EACH	3
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-3)	EACH	3
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	POUND	698

SIGN NO./LOCATION	STANDARD ROADSIDE SIGNS TO BE MOUNTED	SQUARE TUBE POST ASSEMBLIES					
		G-1	G-2	G2-1	G2-2	G2-3	G2-4
		EACH	EACH	EACH	EACH	EACH	EACH
SS-HWY64-23-STA10+00EB	R2-1	1					
SS-HWY64-23-STA10+00WB	R2-1	1					
SS-HWY64-23-STA12+50EB	W2-6, W13-1P				1		
SS-HWY64-23-STA16+00WB	M1-4, M3-4	1					
SS-HWY64-23-STA15+05EB	R4-7	1					
SS-HWY64-23-STA17+60EB	R1-2, R6-1R					1	
SS-HWY64-23-STA18+10EB	R6-4	1					
SS-HWY64-23-STA19+60WB	R6-4	1					
SS-HWY64-23-STA20+05WB	R1-2, R6-1R					1	
SS-HWY64-23-STA21+00EB	M1-4, M3-2	1					
SS-HWY64-23-STA23+35WB	R4-7	1					
SS-HWY64-23-STA25+50WB	W2-6, W13-1P				1		
SS-HWY64-23-STA28+00EB	R2-1	1					
SS-HWY64-23-STA28+00WB	R2-1	1					
SS-HOGANLN-23-STA52+30NB	W2-6, W13-1P				1		
SS-HOGANLN-23-STA53+15NB	R4-7	1					
SS-HOGANLN-23-STA54+50NB	R1-2, R6-1R					1	
SS-HOGANLN-23-STA55+00NB	R6-4	1					
SS-BLRW-23-STA9+75SB	R1-1	1					
SS-BLRE-23-STA9+65SB	R1-1, R6-1L, R3-2	1					
SS-BLRE-23-STA9+95SB	R5-1	1					
TOTALS		15	0	0	3	3	0

STANDARD ROADSIDE SIGN SHEET ALUMINUM 0.100" THICKNESS (5 SF OR LESS)					
SIGN NO.	SIZE OF SIGN	UNIT AREA (SQ. FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ. FT.)	LEGEND/BACKGROUND
R2-1	24" x 30"	5.00	2	10.00	BLACK/WHITE
R2-1	36" x 48"	12.00	2	24.00	BLACK/WHITE
R3-2	24" x 24"	4.00	1	4.00	BLACK/WHITE
R4-7	24" x 30"	5.00	3	15.00	BLACK/WHITE
R6-1R	36" x 12"	3.00	4	12.00	BLACK/BLACK
R6-4	30" x 24"	5.00	3	15.00	BLACK/WHITE
M1-4	24" x 24"	4.00	2	8.00	BLACK/WHITE
M3-2	24" x 12"	2.00	1	2.00	BLACK/WHITE
M3-4	24" x 12"	2.00	1	2.00	BLACK/WHITE
W13-1P	24" x 24"	4.00	3	12.00	BLACK/YELLOW
TOTAL 0.100" THICKNESS				104.00	

STANDARD ROADSIDE SIGNS SHEET ALUMINUM 0.125" THICKNESS (GREATER THAN 5 SF)					
SIGN NO.	SIZE OF SIGN	UNIT AREA (SQ. FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ. FT.)	LEGEND/BACKGROUND
R1-1	36" x 36"	7.46	2	14.92	WHITE/RED
R1-2	48" x 48" x 48"	6.93	3	20.79	RED/WHITE
R5-1	36" x 36"	9	1	9.00	RED/WHITE
W2-6	36" x 36"	9	3	27.00	BLACK/YELLOW
TOTAL 0.125" THICKNESS				71.71	

SIGN NO./LOCATION	STRUCTURE TYPE	SIGN	BREAKAWAY SIGN SUPPORT										EXIT NUMBER PANEL							
			TYPE	STANDARD SIGN	GUIDE SIGN			STEEL SECT. A-572	Sign Post Length		STUB POST		FOOTINGS			SIGN POST AND STUB	LEGEND	TYPE		
					LENGTH	HEIGHT	AREA		H-1	H-2	H-1	H-2	DIA.	DEPTH	EMBED.			A	B	C
					FT.	FT.	SQ. FT.		LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	POUND			SQ. FT.		
GM-HWY64-23-STA13+50EB	1		6.50	6.50	42.25	W6	9	15.25	16.225	3.66	3.66	1.5	5	3.33	349.22					
GM-HWY64-23-STA24+50WB	1		6.50	6.50	42.25	W6	9	15.25	16.225	3.66	3.66	1.5	5	3.33	349.22					
TOTALS:	2				84.5										698.44	0.00	0.00	0.00		

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SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
201	CLEARING	18	STATION
201	GRUBBING	18	STATION
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER	809	LN. FT.
202	REMOVAL AND DISPOSAL OF FENCE	266	LN. FT.
202	REMOVAL AND DISPOSAL OF DROP INLETS	3	EACH
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS	5	EACH
202	REMOVAL AND DISPOSAL OF HEADWALLS	5	EACH
202	REMOVAL AND DISPOSAL OF SIGNS	9	EACH
SP & 202	REMOVAL AND DISPOSAL OF LUMINAIRE POLE AND FOUNDATION	2	EACH
SS & 206	FLOWABLE SELECT MATERIAL	11	CU. YD.
SP, SS, & 210	UNCLASSIFIED EXCAVATION	15731	CU. YD.
SP & 210	COMPACTED EMBANKMENT	8592	CU. YD.
SP & 210	SOIL STABILIZATION	100	TON
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)	1877	TON
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (5" UNIFORM THICKNESS)	189	SQ. YD.
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (10" UNIFORM THICKNESS)	733	SQ. YD.
SS & 401	TACK COAT	1646	GAL.
SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")	1269	TON
SP, SS, & 405	ASPHALT BINDER (PG 64-22) IN ACHM BASE COURSE (1 1/2")	57	TON
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")	652	TON
SP, SS, & 406	ASPHALT BINDER (PG 64-22) IN ACHM BINDER COURSE (1")	31	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	3148	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")	1	TON
SP, SS, & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (3/8")	210	TON
SP & 412	COLD MILLING ASPHALT PAVEMENT	2359	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC	10	TON
SP, SS, & 501	PORTLAND CEMENT CONCRETE PAVEMENT (11" UNIFORM THICKNESS)	536	SQ. YD.
SP, SS, & 505	PORTLAND CEMENT CONCRETE DRIVEWAY	15377	SQ. YD.
601	MOBILIZATION	1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE	1	EACH
SS & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	257	SQ. FT.
SS & 604	TRAFFIC DRUMS	174	EACH
SS & 604	VERTICAL PANELS	20	EACH
604	CONSTRUCTION PAVEMENT MARKINGS	9884	LN. FT.
604	CONSTRUCTION PAVEMENT MARKINGS (ARROWS)	1	EACH
604	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	1	EACH
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE B)	1182	LN. FT.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	721	SQ. YD.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	140	LN. FT.
SS & 606	18" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 1)	1304	LN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	1304	LN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	7	LN. FT.
SS & 606	24" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 1)	384	LN. FT.
SS & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	384	LN. FT.
SS & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	122	LN. FT.
SS & 606	30" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 1)	430	LN. FT.
SS & 606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	67	LN. FT.
SS & 606	42" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	105	LN. FT.
SS & 606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1	EACH
SS & 606	20" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1	EACH
SS & 606	30" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	3	EACH
SS & 606	36" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	2	EACH
SS & 606	42" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	2	EACH
SS & 606	SELECTED PIPE BEDDING	210	CU. YD.
SS & 609	DROP INLETS (TYPE C)	3	EACH
SS & 609	DROP INLETS (TYPE E)	1	EACH
SS & 609	DROP INLETS (TYPE MO)	19	EACH
SS & 609	JUNCTION BOXES (TYPE E)	2	EACH
SS & 609	DROP INLET EXTENSIONS (4')	12	EACH
SS & 609	DROP INLET EXTENSIONS (8')	1	EACH
SS & 615	PAVEMENT REPAIR OVER CULVERTS (ASPHALT)	101	TON
SS & 619	WIRE FENCE (TYPE A)	203	LN. FT.
620	LIME	8	TON
620	SEEDING	3.97	ACRE
SS & 620	MULCH COVER	8.74	ACRE
620	WATER	558.1	M. GAL.
621	TEMPORARY SEEDING	4.77	ACRE
621	SILT FENCE	1772	LN. FT.
621	SAND BAG DITCH CHECKS	760	BAG
621	DROP INLET SILT FENCE	100	LN. FT.
621	SEDIMENT BASIN	100	CU. YD.
621	OBLITERATION OF SEDIMENT BASIN	100	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL	251	CU. YD.
621	ROCK DITCH CHECKS	78	CU. YD.
SS & 621	FILTER SOCK (18")	675	LN. FT.
623	SECOND SEEDING APPLICATION	3.97	ACRE
624	SOLID SODDING	4440	SQ. YD.
626	EROSION CONTROL MATTING (CLASS 3)	941	SQ. YD.
SP, SS, & 632	CONCRETE ISLAND	957	SQ. YD.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	3020	LN. FT.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE E-1) (2' 0")	440	LN. FT.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
637	MAILBOXES	1	EACH
637	MAIL BOX SUPPORTS (SINGLE)	1	EACH
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/8 A.W.G. E.G.C.)	850	LN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/10 A.W.G. E.G.C.)	1400	LN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/16 A.W.G. E.G.C.)	1200	LN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	630	LN. FT.
710	NON-METALLIC CONDUIT (2")	2300	LN. FT.
SP, SS, & 711	CONCRETE PULL BOX (TYPE 2 HD)	19	EACH
SP	LED ROADWAY ILLUMINATION POLE (18,700 LUMENS, DECORATIVE, T-BASE, 30')	14	EACH
SP	PEDESTAL TYPE SERVICE POINT (100 AMP)	1	EACH
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (1/2")	119	LN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (1/2")	1505	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	1167	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")	31	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	2991	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (8")	1626	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	4	EACH
719	THERMOPLASTIC PAVEMENT MARKING (BKE EMBLEMS)	2	EACH
719	THERMOPLASTIC PAVEMENT MARKING (YIELD LINE)	51	LN. FT.
721	RAISED PAVEMENT MARKERS (TYPE II)	35	EACH
SS & 725	GUIDE SIGN-ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	85	SQ. FT.
SS & 726	STANDARD SIGN	176	SQ. FT.
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	698	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	15	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-2)	3	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-3)	3	EACH
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-ROADWAY	104	CU. YD.
SP, SS, & 802	CLASS S CONCRETE-ROADWAY	30.91	CU. YD.
SP	TEXTURED COATING FINISH	42	SQ. YD.
SS & 804	REINFORCING STEEL-ROADWAY (GRADE 60)	3887	POUND
SS & 816	FILTER BLANKET	78	SQ. YD.
SS & 816	DUMPED RPRAP	70	CU. YD.

* DENOTES ALTERNATE BID ITEMS.

REVISIONS

DATE	REVISION	SHEET NUMBER
6/10/2024	ADDED FED. AID PROJ. NUMBER, ADDED SS 102-3 "PREQUALIFICATION OF BIDDERS", ADDED SP "ELECTRICAL CONDUCTORS FOR LUMINAIRES", "LED ROADWAY ILLUMINATION POLE", AND "PEDESTAL TYPE SERVICE POINT". REVISED SP "CONCRETE PULL BOX" AND "ELECTRICAL CONDUCTORS-IN-CONDUIT". REMOVED SP "ROADWAY ILLUMINATION ASSEMBLY" AND "SERVICE POINT ASSEMBLY (UNDERGROUND SECONDARY SERVICE, ROADWAY LIGHTING)". REVISED SUMMARY OF QUANTITIES FOR LIGHTING SP AND PLAN REVISIONS. REVISED "ELECTRICAL CONDUCTORS-IN-CONDUIT (C/A W.G. ___)" PAY ITEM NAMES AND QUANTITIES. REVISED CONCRETE PULL BOX, ROADWAY ILLUMINATION POLE, AND SERVICE POINT PAY ITEM NAMES. ADDED "ELECTRICAL CONDUCTORS FOR LUMINAIRES" PAY ITEM AND QUANTITY. REVISED ELECTRICAL LEGEND AND NOTES, LIGHTING INSTALLATION PLAN, AND ELECTRICAL DETAILS. REVISED DRIVEWAYS & TURNOUTS ASPHALT BINDER CONTENT TO MATCH BASE AND SURFACING ASPHALT BINDER CONTENT.	1, 3, 23, 27, 38, 40, 43-44



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SURVEY CONTROL COORDINATES

Project Name: s080634
 Date: 5/6/2020
 Coordinate System: ARKANSAS STATE PLANE - NORTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.
 Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	283494.9195	1159459.9296	317.332	GPS	ARDOT STD. MON. STAMPED PN: 1
2	283628.4564	1160762.9975	326.881	GPS	ARDOT STD. MON. STAMPED PN: 2
3	283671.7844	1162371.3997	340.650	CTL	ARDOT STD. MON. STAMPED PN: 3
4	283791.8913	1162910.0842	346.233	CTL	ARDOT STD. MON. STAMPED PN: 4
5	283896.4510	1163681.8546	351.362	CTL	ARDOT STD. MON. STAMPED PN: 5
6	283009.2013	1162949.7685	384.711	CTL	ARDOT STD. MON. STAMPED PN: 6
900	283811.0912	1162992.6283	344.023	TBM	CHSLD SQ CUT IN CENTER OF HW

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped
 *(standard markings common to all caps), or as indicated
 (other markings indicated in the point description of the individual point).
 USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT
 A PROJECT CAF OF 0.999957701450 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
 THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
 GRID DISTANCE = GROUND DISTANCE X CAF.
 GRID COORDINATES ARE STORED UNDER FILE NAME s080634gi.ctb
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE
 AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL
 IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
 REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:
 ARKANSAS STATE PLANE GRID BEARINGS - 0301-NORTH ZONE
 DETERMINED FROM GPS STATIC OBSERVATIONS ON POINTS 1&2
 CONVERGENCE ANGLE: 0°17'26.94" LEFT AT LAT N35°06'43.01" LON W92°29'59.17"
 GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

ALIGNMENT NAME: HWY. 64 (WEST)

POINT	STATION	TYPE	NORTHING	EASTING
8000	10+00.00	POB	283648.8101	1162076.0953
8001	12+49.12	PC	283684.1241	1162322.7032
8002	13+97.42	PT	283700.8607	1162470.0341
8003	18+60.00	POE	283739.6693	1162930.9803

ALIGNMENT NAME: BOONE LOOP RD. (WEST)

POINT	STATION	TYPE	NORTHING	EASTING
8014	8+00.00	POB	283889.3548	1162352.8487
8015	8+91.56	PC	283797.8260	1162355.1219
8016	9+20.14	PT	283769.3332	1162357.2549
8017	10+00.00	POE	283690.0938	1162367.1802

ALIGNMENT NAME: HWY. 64 (EAST)

POINT	STATION	TYPE	NORTHING	EASTING
8004	19+00.00	POB	283723.9963	1162932.7683
8005	20+63.71	PC	283768.5297	1163090.3064
8006	24+86.76	PT	283853.1870	1163504.4023
8007	29+00.00	POE	283905.8659	1163914.2741

ALIGNMENT NAME: BOONE LOOP RD. (EAST)

POINT	STATION	TYPE	NORTHING	EASTING
8018	8+00.00	POB	284003.6346	1163213.6670
8019	9+17.31	PC	283886.4879	1163219.7883
8020	9+66.45	PT	283837.8756	1163226.5382
8021	10+00.00	POE	283805.1573	1163233.9830

ALIGNMENT NAME: HOGAN LN.

POINT	STATION	TYPE	NORTHING	EASTING
8008	50+00.00	POB	283174.7493	1162929.5824
8009	54+90.62	PC	283665.3377	1162935.3843
8010	55+58.71	PT	283733.2839	1162931.7431
8011	56+00.00	POE	283774.2775	1162926.8458

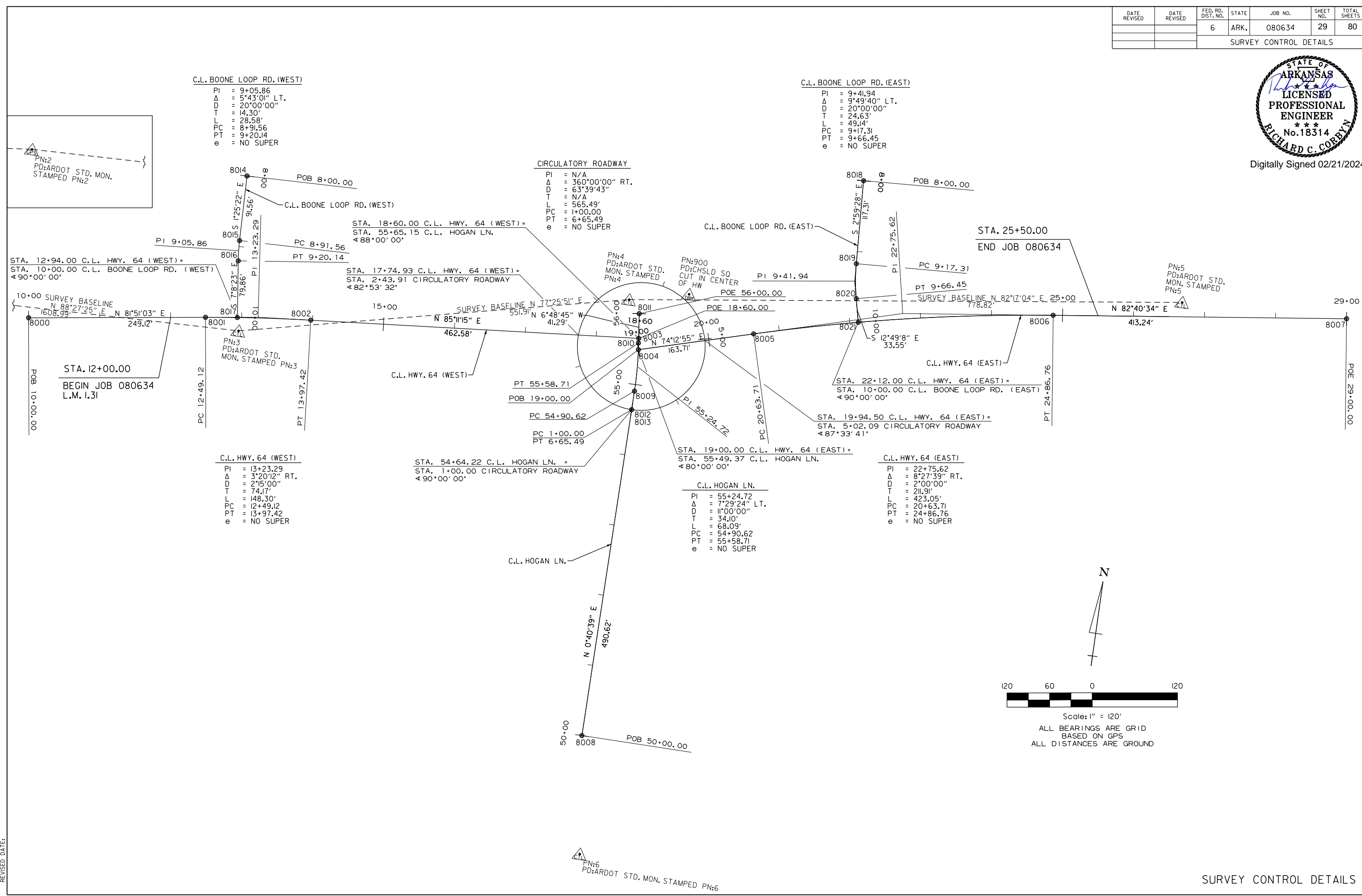
ALIGNMENT NAME: CIRCULATORY ROADWAY

POINT	STATION	TYPE	NORTHING	EASTING
8012	1+00.00	PC	283638.9342	1162935.0721
8013	6+65.49	PT	283638.9342	1162935.0723

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	29	80
SURVEY CONTROL DETAILS						



Digitally Signed 02/21/2024



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REVISED DATE:



Digitally Signed 02/21/2024

STA. 12+45 CONSTRUCT JUNCTION BOX LT. H=9'-2" WITH 36"x23" R.C. PIPE OUTLET (CLASS III) (TYPE 3 BEDDING) TO JUNCTION BOX AT STA. 12+52 LT. TYPE E JUNCTION BOX = 4'-6"x3' DUMPED RIPRAP = 27 CU.YD.

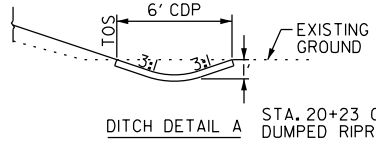
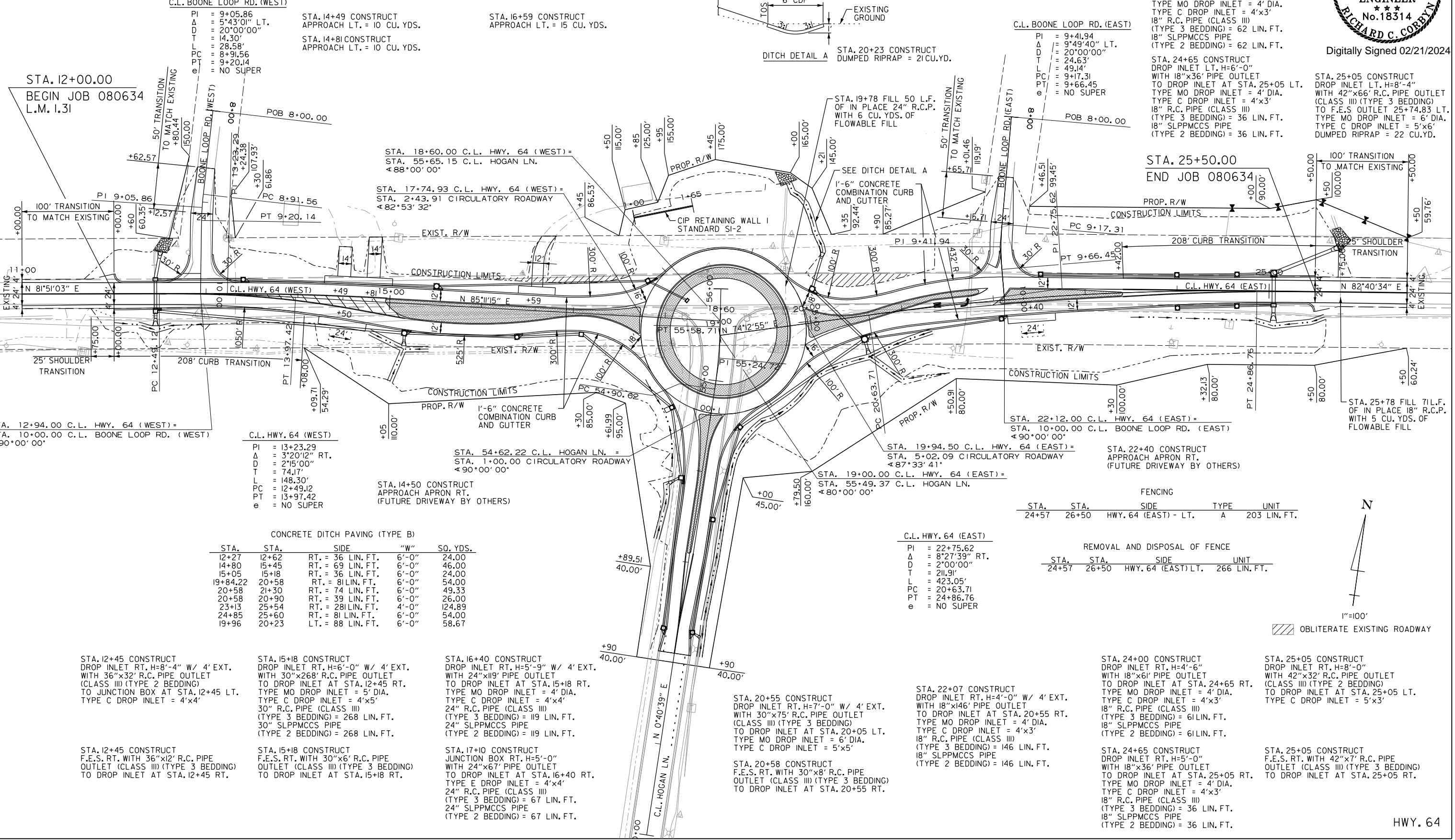
STA. 13+40 CONSTRUCT DROP INLET LT. H=5'-6" W/ 4' EXT. WITH 18"x92" PIPE OUTLET TO DROP INLET AT STA. 12+45 LT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 92 LIN. FT.

STA. 15+50 CONSTRUCT DROP INLET LT. H=4'-6" W/ 4' EXT. WITH 18"x207" PIPE OUTLET TO DROP INLET AT STA. 13+40 LT. TYPE MO DROP INLET = 5' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 207 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 207 LIN. FT.

STA. 17+80 CONSTRUCT DROP INLET LT. H=5'-4" W/ 8' EXT. WITH 18"x226" PIPE OUTLET TO DROP INLET AT STA. 15+50 LT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 226 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 226 LIN. FT.

STA. 20+05 CONSTRUCT DROP INLET LT. H=7'-6" W/ 4' EXT. WITH 30"x33" R.C. PIPE OUTLET (CLASS III) (TYPE 3 BEDDING) TO F.E.S. AT STA. 20+23 LT. TYPE MO DROP INLET = 5' DIA. TYPE C DROP INLET = 5'x4'

STA. 22+53 CONSTRUCT DROP INLET LT. H=4'-6" WITH 18"x145" PIPE OUTLET TO DROP INLET AT STA. 24+00 LT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 145 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 145 LIN. FT.



C.L. BOONE LOOP RD. (EAST)
 PI = 9+41.94
 Δ = 9'49'40" LT.
 D = 20'00'00"
 T = 24.63'
 L = 49.14'
 PC = 9+17.31
 PT = 9+66.45
 e = NO SUPER

STA. 25+50.00
 END JOB 080634

STA. 25+05 CONSTRUCT DROP INLET LT. H=8'-4" WITH 42"x66" R.C. PIPE OUTLET (CLASS III) (TYPE 3 BEDDING) TO F.E.S. OUTLET 25+74.83 LT. TYPE MO DROP INLET = 6' DIA. TYPE C DROP INLET = 5'x6' DUMPED RIPRAP = 22 CU.YD.

C.L. HWY. 64 (WEST)
 PI = 13+23.29
 Δ = 3'20'12" RT.
 D = 2'15'00"
 T = 74.17'
 L = 148.30'
 PC = 12+49.12
 PT = 13+97.42
 e = NO SUPER

STA. 54+62.22 C.L. HOGAN LN. =
 STA. 1+00.00 CIRCULATORY ROADWAY
 Δ 87°33'41"

C.L. HWY. 64 (EAST)
 PI = 22+75.62
 Δ = 8'27'39" RT.
 D = 2'00'00"
 T = 211.91'
 L = 423.05'
 PC = 20+63.71
 PT = 24+86.76
 e = NO SUPER

STA.	STA.	SIDE	TYPE	UNIT
24+57	26+50	HWY. 64 (EAST) - LT.	A	203 LIN. FT.

STA.	STA.	SIDE	UNIT
24+57	26+50	HWY. 64 (EAST) LT.	266 LIN. FT.

STA.	STA.	SIDE	"W"	SO. YDS.
12+27	12+62	RT. = 36 LIN. FT.	6'-0"	24.00
14+80	15+45	RT. = 69 LIN. FT.	6'-0"	46.00
15+05	15+18	RT. = 36 LIN. FT.	6'-0"	24.00
19+84.22	20+58	RT. = 81 LIN. FT.	6'-0"	54.00
20+58	21+30	RT. = 74 LIN. FT.	6'-0"	49.33
20+58	20+90	RT. = 39 LIN. FT.	6'-0"	26.00
23+13	25+54	RT. = 281 LIN. FT.	4'-0"	124.89
24+85	25+60	RT. = 81 LIN. FT.	6'-0"	54.00
19+96	20+23	LT. = 88 LIN. FT.	6'-0"	58.67

STA. 15+18 CONSTRUCT DROP INLET RT. H=6'-0" W/ 4' EXT. WITH 30"x268" R.C. PIPE OUTLET TO DROP INLET AT STA. 12+45 RT. TYPE MO DROP INLET = 5' DIA. TYPE C DROP INLET = 4'x3' 30" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 268 LIN. FT. 30" SLPPMCCS PIPE (TYPE 2 BEDDING) = 268 LIN. FT.

STA. 16+40 CONSTRUCT DROP INLET RT. H=5'-9" W/ 4' EXT. WITH 24"x119" PIPE OUTLET TO DROP INLET AT STA. 15+18 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x4' 24" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 119 LIN. FT. 24" SLPPMCCS PIPE (TYPE 2 BEDDING) = 119 LIN. FT.

STA. 20+55 CONSTRUCT DROP INLET RT. H=7'-0" W/ 4' EXT. WITH 30"x75" R.C. PIPE OUTLET (CLASS III) (TYPE 3 BEDDING) TO DROP INLET AT STA. 20+05 LT. TYPE MO DROP INLET = 6' DIA. TYPE C DROP INLET = 5'x5'

STA. 20+58 CONSTRUCT F.E.S. RT. WITH 30"x8" R.C. PIPE OUTLET (CLASS III) (TYPE 3 BEDDING) TO DROP INLET AT STA. 20+55 RT.

STA. 22+07 CONSTRUCT DROP INLET RT. H=4'-0" W/ 4' EXT. WITH 18"x146" PIPE OUTLET TO DROP INLET AT STA. 20+55 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 146 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 146 LIN. FT.

STA. 24+00 CONSTRUCT DROP INLET RT. H=4'-6" WITH 18"x61" PIPE OUTLET TO DROP INLET AT STA. 24+65 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 61 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 61 LIN. FT.

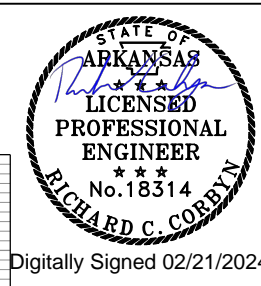
STA. 24+65 CONSTRUCT DROP INLET RT. H=5'-0" WITH 18"x36" PIPE OUTLET TO DROP INLET AT STA. 25+05 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 36 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 36 LIN. FT.

STA. 25+05 CONSTRUCT DROP INLET RT. H=8'-0" WITH 42"x32" R.C. PIPE OUTLET TO DROP INLET AT STA. 25+05 LT. TYPE C DROP INLET = 5'x3'

STA. 25+05 CONSTRUCT F.E.S. RT. WITH 42"x7" R.C. PIPE OUTLET (CLASS III) (TYPE 3 BEDDING) TO DROP INLET AT STA. 25+05 RT.

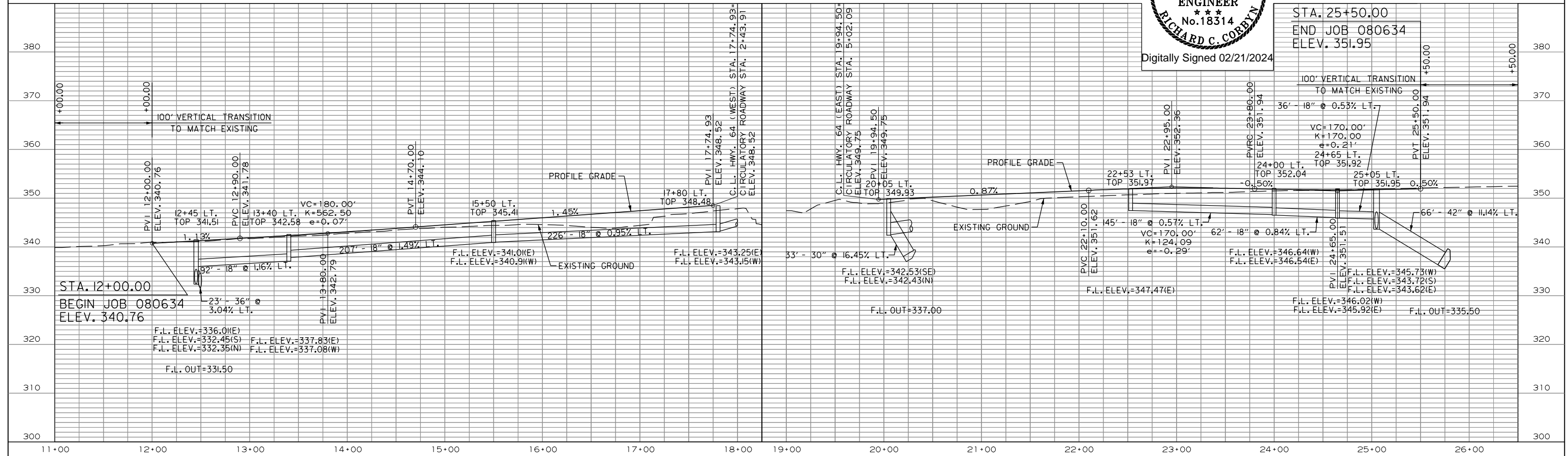
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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	31	80



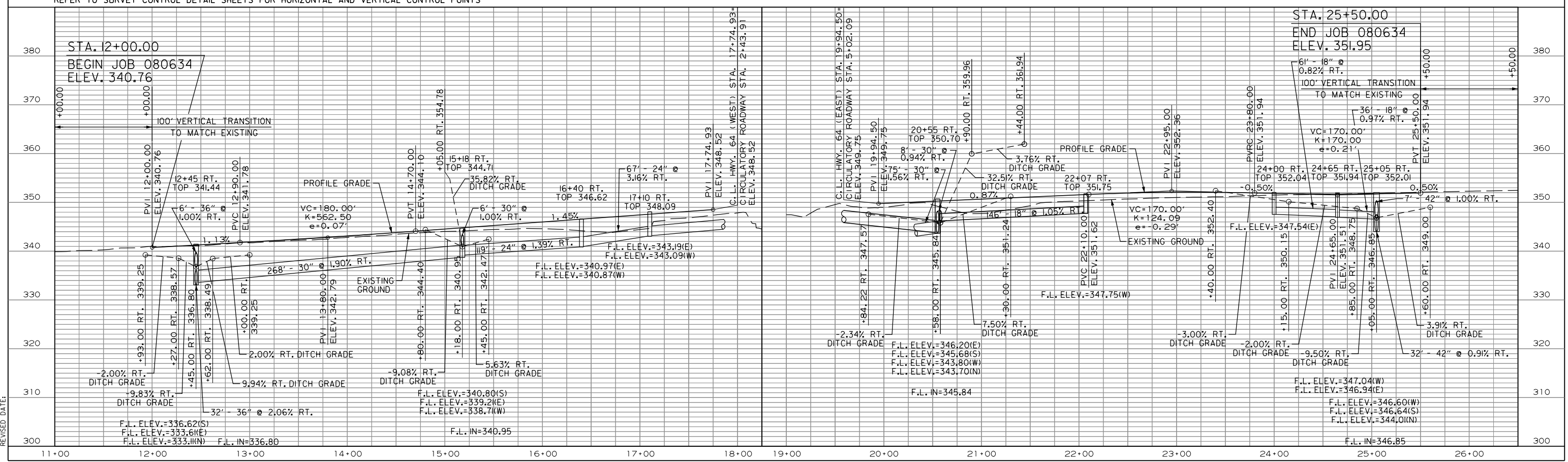
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HWY. 64 LT. SIDE PROFILE



STA. 25+50.00
END JOB 080634
ELEV. 351.95

HWY. 64 RT. SIDE PROFILE



STA. 25+50.00
END JOB 080634
ELEV. 351.95

REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL POINTS

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DATE REVISION	DATE	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	32	80
PLAN LAYOUT - HOGAN LN.						



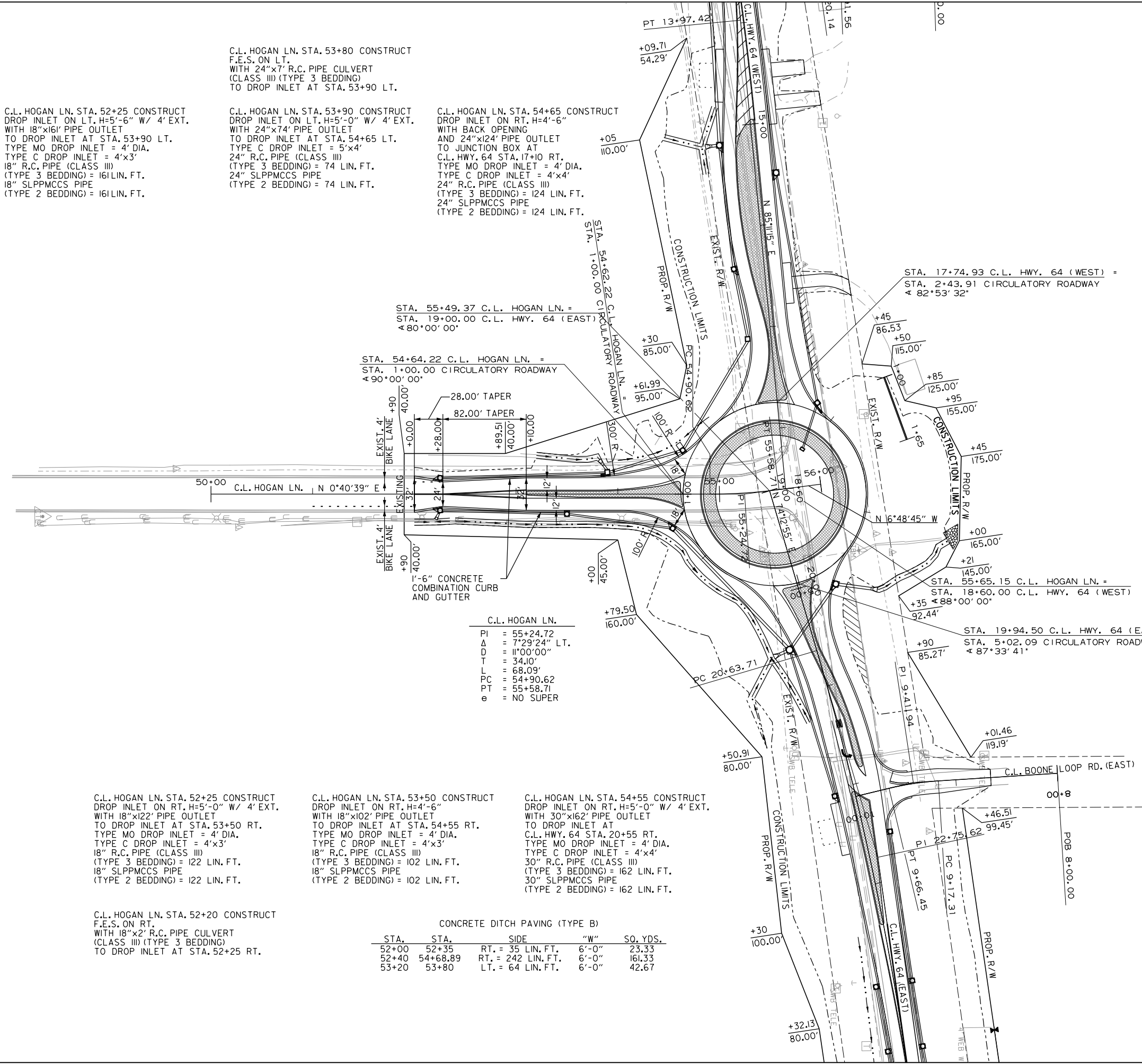
Digitally Signed 02/21/2024

C.L. HOGAN LN. STA. 52+25 CONSTRUCT DROP INLET ON LT. H=5'-6" W/ 4' EXT. WITH 18"x16" PIPE OUTLET TO DROP INLET AT STA. 53+90 LT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 161 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 161 LIN. FT.

C.L. HOGAN LN. STA. 53+80 CONSTRUCT F.E.S. ON LT. WITH 24"x7' R.C. PIPE CULVERT (CLASS III) (TYPE 3 BEDDING) TO DROP INLET AT STA. 53+90 LT.

C.L. HOGAN LN. STA. 53+90 CONSTRUCT DROP INLET ON LT. H=5'-0" W/ 4' EXT. WITH 24"x74' PIPE OUTLET TO DROP INLET AT STA. 54+65 LT. TYPE C DROP INLET = 5'x4' 24" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 74 LIN. FT. 24" SLPPMCCS PIPE (TYPE 2 BEDDING) = 74 LIN. FT.

C.L. HOGAN LN. STA. 54+65 CONSTRUCT DROP INLET ON RT. H=4'-6" WITH BACK OPENING AND 24"x124' PIPE OUTLET TO JUNCTION BOX AT C.L. HWY. 64 STA. 17+10 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x4' 24" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 124 LIN. FT. 24" SLPPMCCS PIPE (TYPE 2 BEDDING) = 124 LIN. FT.



STA. 55+49.37 C.L. HOGAN LN. = STA. 19+00.00 C.L. HWY. 64 (EAST) < 80°00'00"

STA. 54+64.22 C.L. HOGAN LN. = STA. 1+00.00 CIRCULATORY ROADWAY < 90°00'00"

STA. 17+74.93 C.L. HWY. 64 (WEST) = STA. 2+43.91 CIRCULATORY ROADWAY < 82°53'32"

STA. 55+65.15 C.L. HOGAN LN. = STA. 18+60.00 C.L. HWY. 64 (WEST) < 88°00'00"

STA. 19+94.50 C.L. HWY. 64 (EAST) = STA. 5+02.09 CIRCULATORY ROADWAY < 87°33'41"

C.L. HOGAN LN.

PI	=	55+24.72
Δ	=	7°29'24" LT.
D	=	11°00'00"
T	=	34.10'
L	=	68.09'
PC	=	54+90.62
PT	=	55+58.71
e	=	NO SUPER

C.L. HOGAN LN. STA. 52+25 CONSTRUCT DROP INLET ON RT. H=5'-0" W/ 4' EXT. WITH 18"x122' PIPE OUTLET TO DROP INLET AT STA. 53+50 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 122 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 122 LIN. FT.

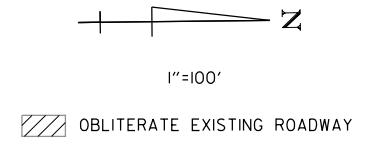
C.L. HOGAN LN. STA. 53+50 CONSTRUCT DROP INLET ON RT. H=4'-6" WITH 18"x102' PIPE OUTLET TO DROP INLET AT STA. 54+55 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x3' 18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 102 LIN. FT. 18" SLPPMCCS PIPE (TYPE 2 BEDDING) = 102 LIN. FT.

C.L. HOGAN LN. STA. 54+55 CONSTRUCT DROP INLET ON RT. H=5'-0" W/ 4' EXT. WITH 30"x162' PIPE OUTLET TO DROP INLET AT C.L. HWY. 64 STA. 20+55 RT. TYPE MO DROP INLET = 4' DIA. TYPE C DROP INLET = 4'x4' 30" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 162 LIN. FT. 30" SLPPMCCS PIPE (TYPE 2 BEDDING) = 162 LIN. FT.

C.L. HOGAN LN. STA. 52+20 CONSTRUCT F.E.S. ON RT. WITH 18"x2' R.C. PIPE CULVERT (CLASS III) (TYPE 3 BEDDING) TO DROP INLET AT STA. 52+25 RT.

CONCRETE DITCH PAVING (TYPE B)

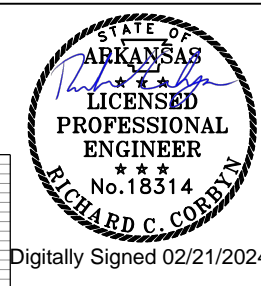
STA.	STA.	SIDE	"W"	SO. YDS.
52+00	52+35	RT.	= 35 LIN. FT. 6'-0"	23.33
52+40	54+68.89	RT.	= 242 LIN. FT. 6'-0"	161.33
53+20	53+80	LT.	= 64 LIN. FT. 6'-0"	42.67



HOGAN LN.

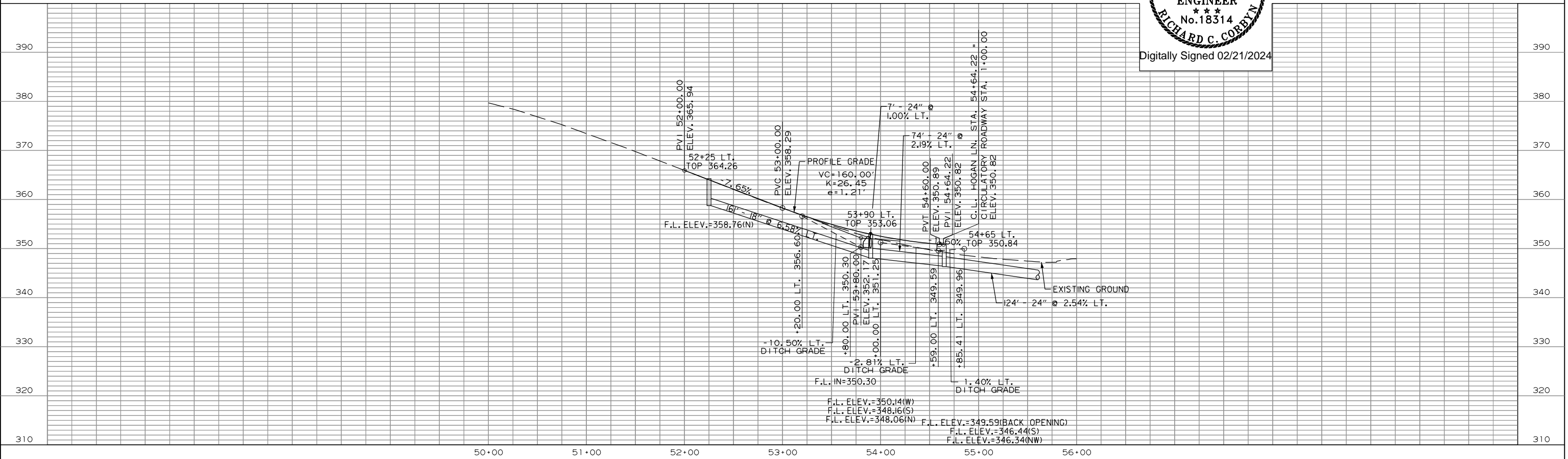
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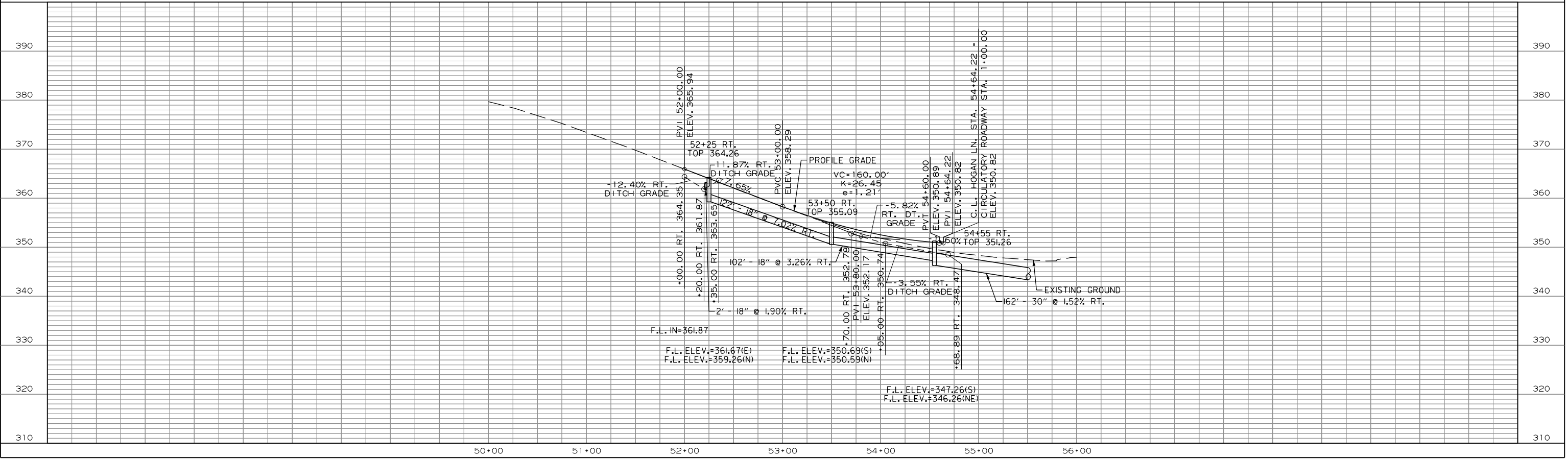
PROFILE LAYOUT - HOGAN LN.

HOGAN LN. LT. SIDE PROFILE



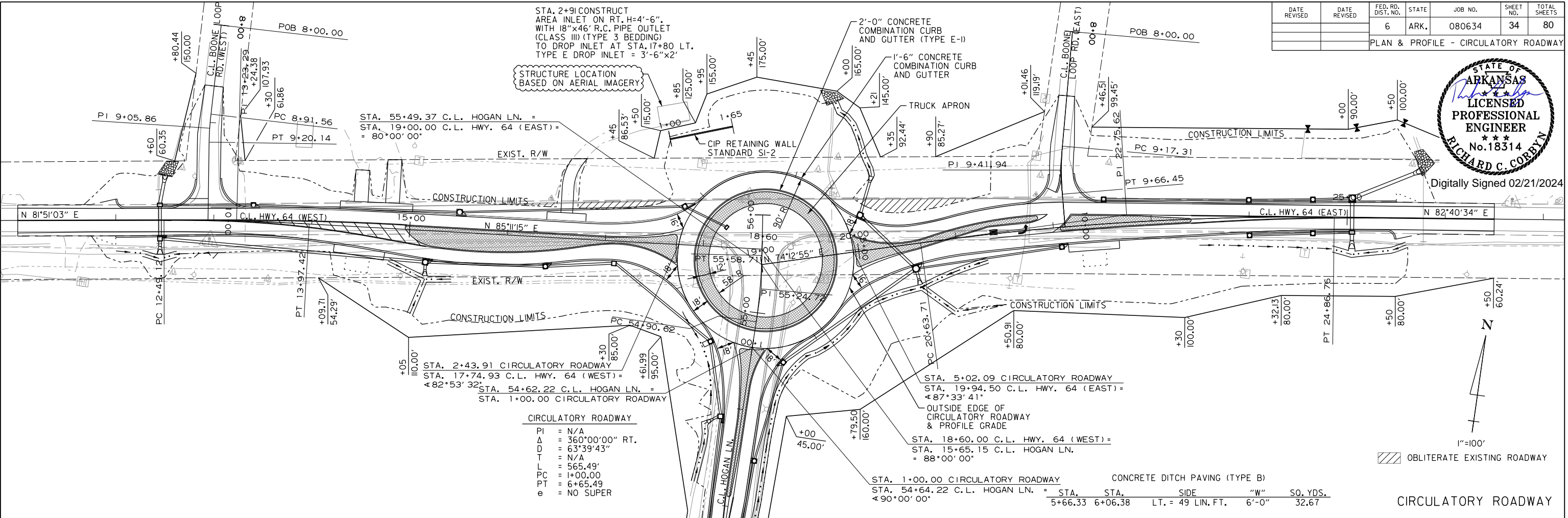
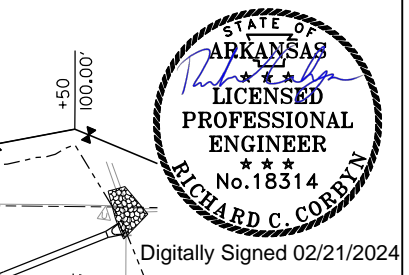
HOGAN LN. RT. SIDE PROFILE

REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL POINTS



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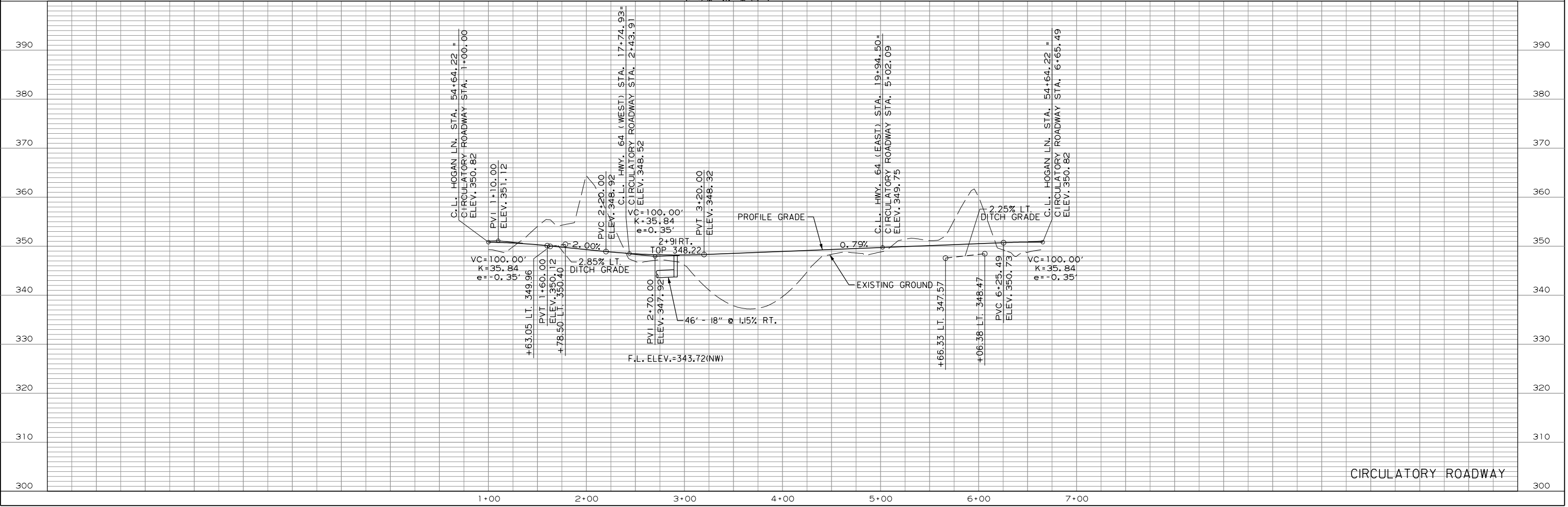


CIRCULATORY ROADWAY

PI	=	N/A
Δ	=	360°00'00" RT.
D	=	63°39'43"
T	=	N/A
L	=	565.49'
PC	=	1+00.00
PT	=	6+65.49
e	=	NO SUPER

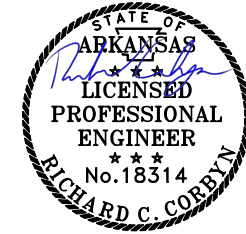
CONCRETE DITCH PAVING (TYPE B)

STA. 1+00.00 CIRCULATORY ROADWAY	STA. 54+64.22 C.L. HOGAN LN.	STA. 5+66.33	STA. 6+06.38	LT. = 49 LIN. FT.	"W" = 6'-0"	SQ. YDS. = 32.67
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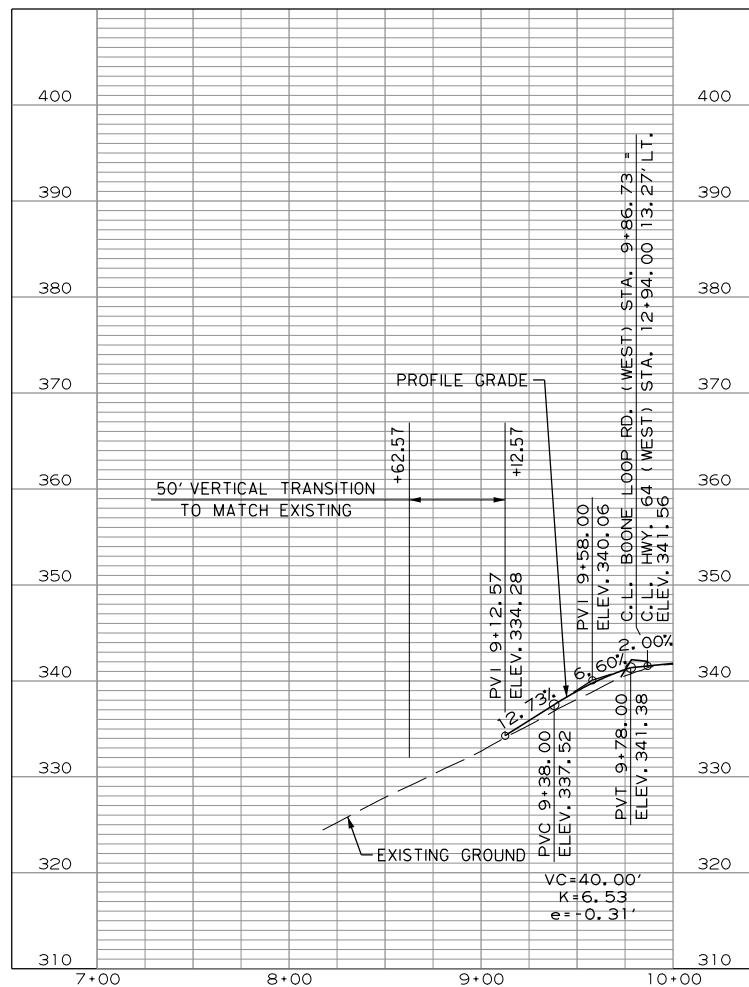
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PROFILE - SIDE ROADS						

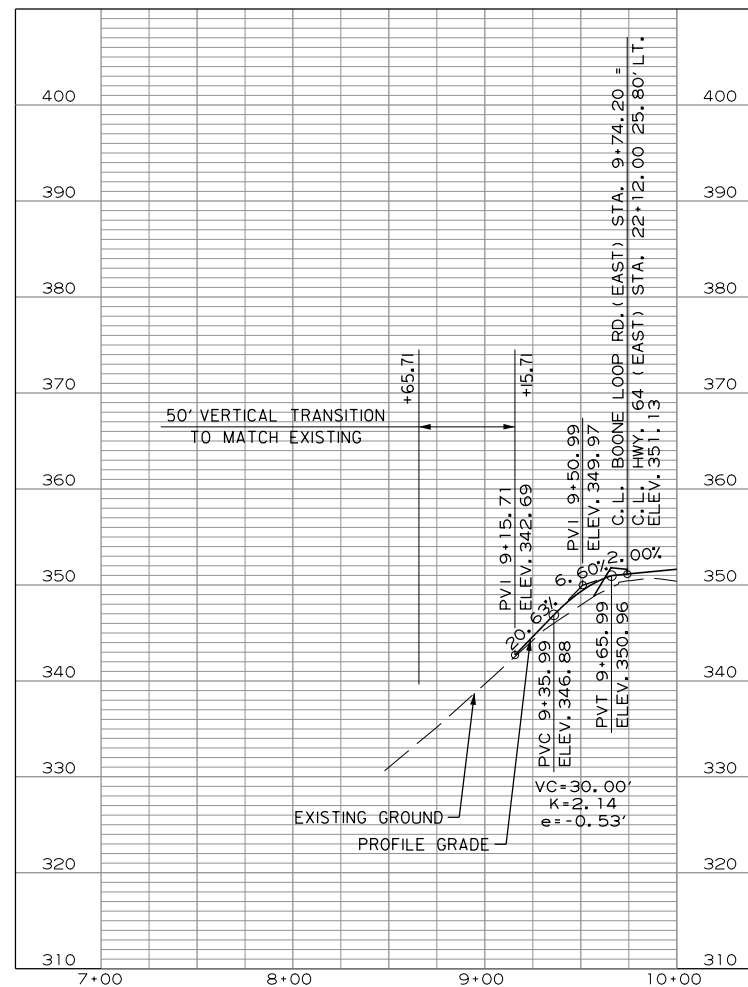


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BOONE LOOP RD. (WEST) PROFILE AT STA. 12+94.00



BOONE LOOP RD. (EAST) PROFILE AT STA. 22+12.00



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SIGN PLACEMENT SHEET						

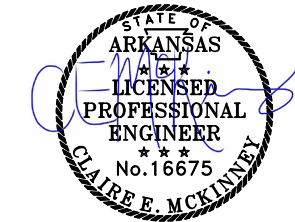


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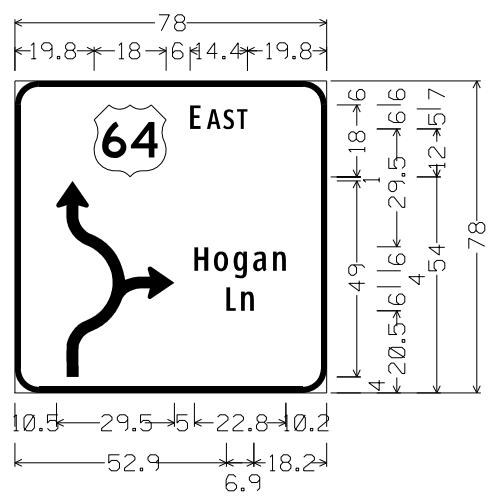


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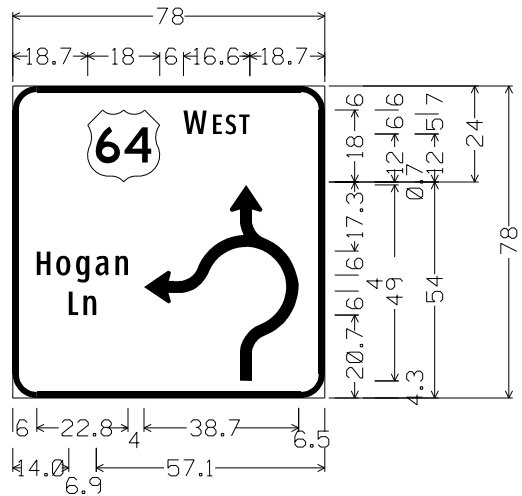
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SIGN PLACEMENT SHEET						



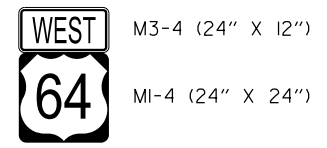
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6.0" Radius, 1.5" Border, White on Green;
 US 64 MI-4;
 "E", ClearviewHwy-2-W;
 "AST", ClearviewHwy-2-W;
 "Hogan", ClearviewHwy-2-W;
 "Ln", ClearviewHwy-2-W;
 GM-HWY64-23-STA13+50EB



6.0" Radius, 1.5" Border, White on Green;
 US 64 MI-4;
 "W", ClearviewHwy-2-W;
 "EST", ClearviewHwy-2-W;
 "Hogan", ClearviewHwy-2-W;
 "Ln", ClearviewHwy-2-W;
 GM-HWY64-23-STA24+50WB



SS-HWY64-23-STA16+00WB



SS-HWY64-23-STA21+00EB



SS-HWY64-23-STA10+00WB
 SS-HWY64-23-STA28+00EB



SS-BLRW-43-STA9+75SB



R6-IR (36" X 12")



RI-1 (36" X 36")

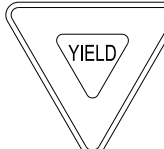


R3-2 (24" X 24")

SS-BLRE-43-STA9+65SB



R6-IR (36" X 12")



RI-2 (48" X 48" X 48")

SS-HWY64-23-STA17+60EB
 SS-HWY64-23-STA20+05WB
 SS-HOGANLN-23-STA54+50NB



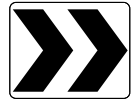
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 SS-HWY64-23-STA28+00WB



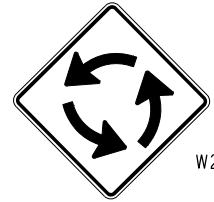
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 SS-HWY64-23-STA23+35WB
 SS-HOGANLN-23-STA53+15NB



SS-BLRE-43-STA9+95SB



SS-HWY64-23-STA18+10EB
 SS-HWY64-23-STA19+60WB
 SS-HOGANLN-23-STA55+00NB



W2-6 (36" X 36")



W13-IP (24" X 24")

SS-HWY64-23-STA12+50EB
 SS-HWY64-23-STA25+50WB
 SS-HOGANLN-23-STA52+30NB

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 REVISION DATE:

CONSTRUCTION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NFPA70, CURRENT EDITION), LIFE SAFETY CODE (NFPA 101, CURRENT EDITION), UNDERGROUND FACILITIES DAMAGE PREVENTION ACT (84-271-101ET SEQ.), AND LOCAL ELECTRICAL CODE. IN ADDITION, ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO PROJECT ENGINEER, TO ENSURE ARKANSAS STATE CODES (14-28-101ET SEQ. AND 20-31-101ET SEQ.) ARE MET. THE DOCUMENTATION SHALL INCLUDE:
(1) ELECTRICIANS' LICENSE INFORMATION AND EXPIRATION DATE.
(2) THE RATIO OF LICENSED-ELECTRICIAN-TO-APPRENTICE-ELECTRICIANS.
(3) PRINTED SEARCH RESULT OF LICENSED ELECTRICIANS FROM ARKANSAS DEPARTMENT OF LABOR ELECTRICIAN LICENSE DIRECTORY (https://www.ark.gov/labor/electrician/search.php) ALL LICENSES SHALL BE VALID AND CURRENT
3. THE CONTRACTOR SHALL NOT ENGAGE IN EXCAVATION OR DEMOLITION ACTIVITIES WITHOUT HAVING FIRST NOTIFIED THE ARKANSAS ONE CALL CENTER IN ACCORDANCE WITH UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE CALL CENTER.
4. UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. SOME UTILITIES MAY HAVE BEEN RELOCATED SINCE THE TIME OF DESIGN AND THE CONTRACTOR'S NOTICE TO PROCEED. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES INVOLVED AND VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL IT IS NO LONGER NECESSARY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES DAMAGED DURING THE CONSTRUCTION.
6. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE NOTED.
7. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY A PUSHING OR BORING METHOD OR AS DIRECTED BY ENGINEER. PVC OR HDPE CONDUIT SHALL BE USED. PVC CONDUIT SHALL BE MARKED "DIR, BORING" OR "DIRECTIONAL BORING" AS PER NEC.
8. NON-DESTRUCTIVE MEG TEST AND CURRENT LEAKAGE TEST SHALL BE PERFORMED ON NEW CONDUCTORS, IN THE PRESENCE OF FIELD INSPECTOR. THE TEST VOLTAGE SHALL BE LIMITED TO 600 VOLTS. ANY CONDUCTORS NOT MEETING THE MINIMUM ACCEPTABLE VALUE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE USING NEW CONDUCTOR. THE RESULTS SHALL BE DOCUMENTED AND PROVIDED TO THE JOB ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED BY MEG TEST WHILE DEVICES OR ACCESSORIES ARE STILL CONNECTED AND SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE ELECTRICAL SPECIAL PROVISIONS.
9. PULL BOX LIDS SHALL CLOSE FLUSH WITHOUT PINCHING ANY CONDUCTORS. CONDUIT LENGTHS IN PULL BOXES SHALL BE SET ACCORDINGLY. ANY CONDUCTORS THAT HAVE BEEN DAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT CONTRACTOR'S EXPENSE.
10. EACH ROADWAY ILLUMINATION POLE SHALL BE BONDED TO EQUIPMENT GROUNDING CONDUCTOR PER NEC. SEE ARTICLES 250 AND 410.
11. ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED.
12. ALL LUMINAIRE ASSEMBLIES SHALL HAVE BUG RATING OF U-0.
13. BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE TWO (2) SETS OF LEDGER SIZE (11" X 17") AS-BUILT PLANS TO THE MAINTENANCE AUTHORITY AND ARDOT.
14. PULL CABLE SHALL BE MINIMUM 1/4" PULL NYLON OR POLYESTER ROPE, OR 1200 LBS PULL TAPE WHEN PULLING CONDUCTORS. STEEL CABLE OR FISH TAPE SHALL NOT BE USED. CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY NEC FOR CONDUCTORS USED.
15. ALL CONCRETE PULL BOXES SHALL BE TYPE 2 HD UNLESS OTHERWISE INDICATED ON THE PLANS.
16. SLACK CABLES IN PULL BOXES SHALL BE 3 FEET.
17. CONDUCT A MINIMUM 14-DAY BURN TEST FOR THE COMPLETE LIGHTING SYSTEM. REPLACE BURNED OUT AND NOTICEABLY DIM LUMINAIRES. MALFUNCTIONING EQUIPMENT SHALL BE CORRECTED, AND RETEST THE SYSTEM. OTHERWISE REMOVE AND REPLACE WITH NEW EQUIPMENT.
18. SEE STANDARD DRAWING SD-6 FOR PULL BOX CONSTRUCTION.
19. ALL METAL POLES SHALL BE BONDED TO E.G.C. PER NEC 410 PART IV AND PART V.
20. THE CONTRACTOR SHALL LABEL ALL CONDUCTORS IN PULL BOXES AND AT SPLICE POINTS.
21. CONDUCTORS SHALL CONTINUOUSLY RUN DIRECTLY FROM SERVICE POINTS TO ELECTRICAL DEVICES AND/OR PULL BOXES WITHOUT SPLICES BEING MADE IN THE CONDUIT. ANY CONDUCTORS THAT HAVE BEEN DAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT THE CONTRACTOR'S EXPENSE.
22. ALL SPLICES SHALL BE WATERTIGHT AND UL-LISTED FOR CONTINUOUS USE IN SUBMERSIBLE INSTALLATION.
23. E.G.C. SHALL BE EXOTHERMICALLY BONDED TO GROUND ROD.

- 24. 2C/.A.W.G.,# E.G.C. INDICATES TWO CURRENT CARRYING CONDUCTORS AND ONE E.G.C.
25. FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENT FOR CLEARANCE ABOVE ROADWAY AND MEET POLE SCHEDULE AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY. POLE FOUNDATION SHALL BE AT THE SAME ELEVATION LEVEL OF THE ROADWAY. WORK WILL BE SUBSIDIARY TO THE LED ROADWAY ILLUMINATION POLE PAY ITEM.
26. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY (MAINTENANCE AUTHORITY) TO A SERVICE POLE WITH EXTERNAL RAIN/TIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL PROVIDE THE SERVICE POINT ASSEMBLY PER PLANS SET AND CONTRACT PRIOR TO THE DATE ELECTRICAL COMPANIES PROVIDE SERVICE.
27. CONTRACTOR SHALL ATTACH A PERMANENT TAG OF RIGID PLASTIC OR NON-FERROUS METAL TO EACH CONDUIT AT PULLBOXES, POLE BASES, AND JUNCTION BOXES. TAGS SHALL BE EMBOSSED, STAMPED, OR ENGRAVED WITH LETTERS 1/4" OR GREATER IN HEIGHT AND SECURED TO THE CONDUIT WITH NYLON OR PLASTIC TIES. EACH TAG SHALL INDICATE THE END LOCATION OF CONDUIT RUN. THE COST OF THE TAGS SHALL BE SUBSIDIARY TO THE CONDUIT PAY ITEM.
EXAMPLES FOR CONDUIT:
SERVICE POINT TO PULL BOX 1 (SP TO PB-1)
PULL BOX 1 TO SERVICE POINT (PB-1 TO SP)
PULL BOX 1 TO PULL BOX 2 (PB-1 TO PB-2)
28. CONDUIT BELL END FITTINGS SHALL BE INSTALLED ON ALL TERMINATING ENDS OF NON-METALLIC CONDUIT RUNS. THIS INCLUDES PULL BOXES AND POLE BASES. THE COST OF THE FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM. ALL NON-METALLIC CONDUIT SHALL USE LONG SWEEP 90 DEGREE ELBOWS ON ALL CONDUIT BENDS.
29. CONDUIT SHALL BE BURIED NOT LESS THAN 18" DEPTH BELOW THE FINAL GRADE, AND MINIMUM 24" DEPTH UNDER THE ROADWAY AND SIDEWALK, UNLESS OTHERWISE INDICATED ON THE PLANS.
30. PRIOR TO THE ORDERING OF ALL LIGHTING EQUIPMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COPY OF THE APPLICABLE BROCHURES CONTAINING THE DESIGN CRITERIA FOR THE EQUIPMENT WHICH THE CONTRACTOR PROPOSES TO INSTALL FOR APPROVAL. THE SPECIFIC ITEMS THAT ARE PROPOSED FOR USE SHALL BE CLEARLY MARKED IN THE APPLICABLE BROCHURES. A LIST SHALL BE ATTACHED TO IDENTIFY THE PAY ITEM AND CONTAIN THE MANUFACTURER, QUANTITY, MODEL, AND IDENTIFYING DESCRIPTIONS OF EACH ITEM. ADEQUATE ENGINEERING DATA, ESSENTIAL SHOP DRAWINGS, AND SCHEMATIC DIAGRAMS SHALL BE PROVIDED FOR REVIEW. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED FOR CONSIDERATION AND SHALL BE RETURNED FOR CORRECTION WITHOUT REVIEW.
IF ENGINEER DETERMINED THAT THE EQUIPMENT SUBMITTAL MEETS THE DESIGN CRITERIA, AN APPROVAL WILL BE PROVIDED. IF THE EQUIPMENT SUBMITTAL FOR USE IS REJECTED, THE CONTRACTOR SHALL RE-SUBMIT THE EQUIPMENT SUBMITTAL WITHIN FIFTEEN (15) DAYS OF NOTIFICATION OF EQUIPMENT REJECTION. THE EQUIPMENT RE-SUBMITTAL WILL BE CONSIDERED THE STARTING POINT OF A NEW APPROVAL CYCLE AS DESCRIBED.

ELECTRICAL SYMBOLS LEGEND

- EXISTING DECORATIVE LIGHT FIXTURE TO BE REMOVED AND FOUNDATION DEMOLISHED, SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
EXISTING DECORATIVE LIGHT FIXTURE TO REMAIN, SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
NEW LUMINAIRE, ARM, LIGHT POLE, FOUNDATION AND PULLBOX ASSEMBLY, SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
REMOVE EXISTING STREET LIGHTING CIRCUIT(S) AND ABANDON CONDUIT
EXISTING STREET LIGHTING CIRCUIT(S) AND CONDUIT TO REMAIN
CONDUIT & WIRE AS NOTED IN NOTES AND IN SCHEDULES.
PULL BOX
RELAY CONTACT, NORMALLY OPEN.
CIRCUIT BREAKER, TRIP RATING SHOWN, 2-POLE UNLESS NOTED OTHERWISE.
SURGE PROTECTIVE DEVICE WITH INDICATING LIGHTS.
3/4" x 10' COPPER CLAD GROUND ROD.
SERVICE POINT LOCATION
20 AMP DUPLEX RECEPTACLE, WITH GROUND WIRE, "GFCI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER.

ABBREVIATIONS

- A AMP
ABC ABOVE COUNTER
ACS ACCESS CONTROL SYSTEM
ACU AIR CONDITIONING UNIT
AHU AIR HANDLING UNIT
AIC AMPS INTERRUPTING CAPACITY
AM AMP-METER
ANN ANNUNCIATOR
AP AERIAL PRIMARY
AS AERIAL SECONDARY
ATS
AUX AUXILIARY
BFI BLOWN FUSE INDICATOR
BI BYPASS ISOLATION
BKR BREAKER
C CONDUIT
CB CIRCUIT BREAKER
CCTV CLOSED CIRCUIT TELEVISION
CGRS PVC COATED GALVANIZED RIGID STEEL
CKT CIRCUIT
COM COMMON
CONT CONTINUOUS
CP CONTROL PANEL
CPT CONTROL POWER TRANSFORMER
CR CONTROL RELAY
CRI COLOR RENDERING INDEX
CS CORD SET
CU COEFFICIENT OF UTILIZATION
DEB DIRECT EARTH BURIED
EC EMPTY OR EMBEDDED CONDUIT
EF EXHAUST FAN
EG EQUIPMENT GROUND
EL ELEVATION
EMT ELECTRICAL METALLIC TUBING
ETM ELAPSED TIME METER
FC FAN COIL
FDS FUSED DISCONNECT SWITCH
FOC FIBER OPTIC CABLE
FVNR FULL VOLTAGE NON-REVERSING STARTER
FVR FULL VOLTAGE REVERSING STARTER
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GND GROUND
GRS GALVANIZED RIGID STEEL
HID HIGH INTENSITY DISCHARGE
HOA HAND-OFF-AUTO
HP HORSEPOWER OR HEAT PUMP
IDS INTRUSION DETECTION SYSTEM
HR HOUR
IG ISOLATED GROUND
ISP INDIVIDUALLY SHIELDED PAIR
JB JUNCTION BOX
KV KILOVOLT-AMPERE
KVAR KILOVOLT-AMPERE, REACTIVE
KW KILOWATT
LA LIGHTNING ARRESTER
LC LIGHTING CONTACTOR
LLF LIGHT LOSS FACTOR
LO LUGS ONLY
LOR LOCAL-OFF-REMOTE
LSI LONG, SHORT, INSTANTANEOUS
LSIG LONG, SHORT, INSTANTANEOUS, GROUND
LV LOW VOLTAGE
MCB MAIN CIRCUIT BREAKER
MCC MOTOR CONTROL CENTER
MCP MOTOR CIRCUIT PROTECTOR
MFR MANUFACTURER
MIN MINIMUM
MLO MAIN LUGS ONLY
MN MASS NOTIFICATION
MON MONACO
MS MOTOR STARTER
MTS MANUAL TRANSFER SWITCH
N NEUTRAL
NFDS NON-FUSED DISCONNECT SWITCH
NL NIGHT LIGHT
OH OVERHEAD
OHP OVERHEAD PRIMARY
OHS OVERHEAD SECONDARY
OL OVERLOAD
PB PUSH BUTTON
PEC PHOTO ELECTRIC CELL
PF POWER FACTOR
PFCC POWER FACTOR CORRECTION CAPACITOR
PL PILOT LIGHT
PMR PHASE MONITOR RELAY
PNL PANEL
PTT PUSH-TO-TEST
PTZ PAN-TILT-ZOOM
PVC SCHEDULE 40 POLYVINYL CONDUIT
RECPT RECEPTACLE
RVAT REDUCED VOLTAGE AUTO-TRANSFORMER STARTER
SA SURGE ARRESTER
SDBC SOFT DRAWN BARE COPPER
SE SERVICE ENTRANCE
SN SOLID NEUTRAL
SPD SURGE PROTECTIVE DEVICE
SS STAINLESS STEEL
STA STATION
SW SWITCH
TC TIME CLOCK
TD TIME DELAY
TDD TIME DELAY ON DE-ENERGIZATION
TDE TIME DELAY ON ENERGIZATION
TEL TELEPHONE
THD TOTAL HARMONIC DISTORTION
TMGB TELECOMMUNICATIONS MAIN GROUND BAR
TGB TELECOMMUNICATIONS GROUND BAR
TR TAMPER RESISTANT
UG UNDERGROUND
UGE UNDERGROUND ELECTRIC
UGP UNDERGROUND PRIMARY
UGS UNDERGROUND SECONDARY
UH UNIT HEATER
UON UNLESS OTHERWISE NOTED
UTP UNSHIELDED TWISTED PAIR
V VOLT
VA VOLT-AMP
VFD VARIABLE FREQUENCY DRIVE
VM VOLT-METER
W WATT OR WIRE
WAP WIRELESS ACCESS POINT
WH WEATHER HEAD
WM WATT METER
WP WEATHERPROOF
XFMR TRANSFORMER

GENERAL NOTES:

- 1. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT NOT BE UTILIZED ON THE PROJECT.
2. LIGHTING LEGEND SHOWS EXAMPLE IDENTIFIERS. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC REQUIREMENTS.
3. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARDS AND DETAILS, AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.
4. CONDUIT INSTALLED UNDER ROADWAY SECTIONS SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD MAY BE USED.
5. CONTRACTOR MAY USE HDPE OR PVC FOR BORING. SECTIONAL PVC SHALL BE UL LISTED AND MARKED FOR USE IN DIRECTIONAL BORING.

SUMMARY OF LIGHTING QUANTITIES

Table with 4 columns: ITEM NO., ITEM, QUANTITIES TOTAL, UNIT. Rows include items like SP&202 REMOVAL AND DISPOSAL OF LUMINAIRE POLE AND FOUNDATION, SP ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/8 A.W.G., E.G.C.), etc.

Table with 6 columns: DATE REVISED, DATE REVISED, FED. RD. DIST. NO., STATE, JOB NO., SHEET NO., TOTAL SHEETS. Values include 6/10/2024, 6, ARK., 080634, 38, 80.

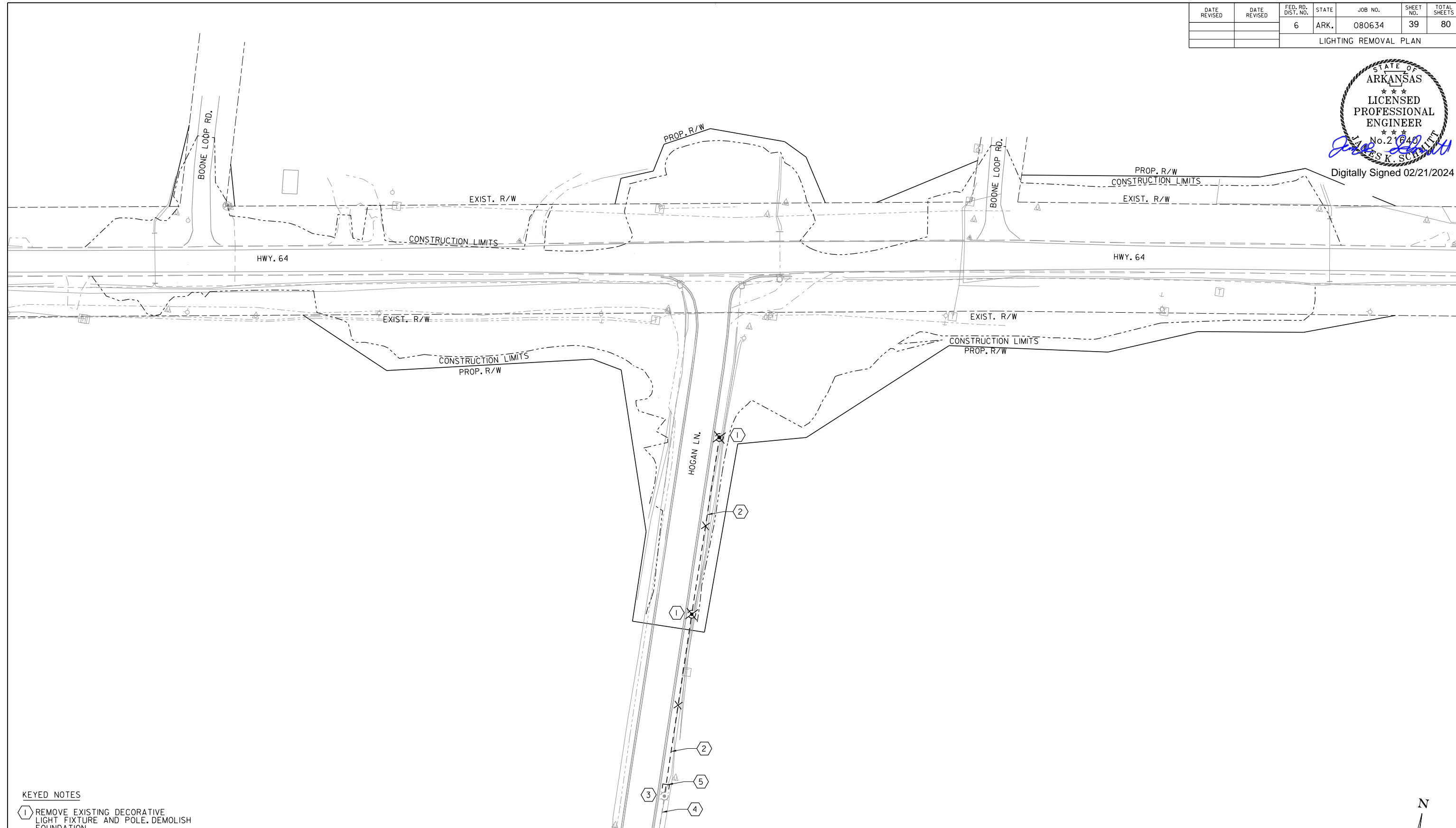
ELECTRICAL LEGEND AND NOTES



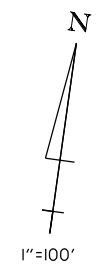
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LIGHTING REMOVAL PLAN						

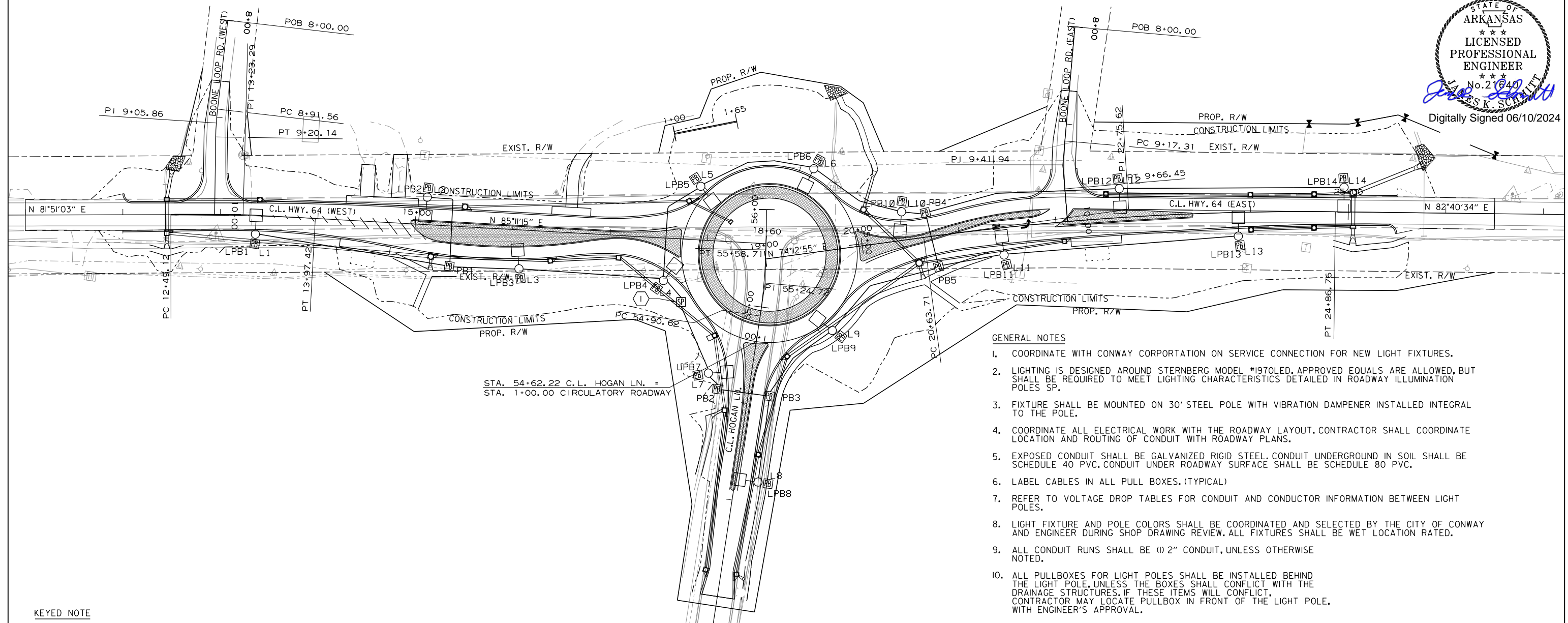


- KEYED NOTES**
- ① REMOVE EXISTING DECORATIVE LIGHT FIXTURE AND POLE. DEMOLISH FOUNDATION.
 - ② REMOVE EXISTING ELECTRICAL CIRCUIT FROM EXISTING CONDUIT. ABANDON CONDUIT IN PLACE.
 - ③ EXISTING DECORATIVE LIGHT FIXTURE AND POLE TO REMAIN.
 - ④ EXISTING ELECTRICAL CIRCUIT AND CONDUIT TO REMAIN.
 - ⑤ FIELD LOCATE EXISTING CONDUIT, CUT AND CAP WATERTIGHT WITHIN 5' OF EXISTING LIGHT POLE.



LIGHTING REMOVAL PLAN

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- GENERAL NOTES**
- COORDINATE WITH CONWAY CORPORATION ON SERVICE CONNECTION FOR NEW LIGHT FIXTURES.
 - LIGHTING IS DESIGNED AROUND STERNBERG MODEL #1970LED. APPROVED EQUALS ARE ALLOWED, BUT SHALL BE REQUIRED TO MEET LIGHTING CHARACTERISTICS DETAILED IN ROADWAY ILLUMINATION POLES SP.
 - FIXTURE SHALL BE MOUNTED ON 30' STEEL POLE WITH VIBRATION DAMPENER INSTALLED INTEGRAL TO THE POLE.
 - COORDINATE ALL ELECTRICAL WORK WITH THE ROADWAY LAYOUT. CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF CONDUIT WITH ROADWAY PLANS.
 - EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL. CONDUIT UNDERGROUND IN SOIL SHALL BE SCHEDULE 40 PVC. CONDUIT UNDER ROADWAY SURFACE SHALL BE SCHEDULE 80 PVC.
 - LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
 - REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
 - LIGHT FIXTURE AND POLE COLORS SHALL BE COORDINATED AND SELECTED BY THE CITY OF CONWAY AND ENGINEER DURING SHOP DRAWING REVIEW. ALL FIXTURES SHALL BE WET LOCATION RATED.
 - ALL CONDUIT RUNS SHALL BE (1) 2" CONDUIT, UNLESS OTHERWISE NOTED.
 - ALL PULLBOXES FOR LIGHT POLES SHALL BE INSTALLED BEHIND THE LIGHT POLE, UNLESS THE BOXES SHALL CONFLICT WITH THE DRAINAGE STRUCTURES. IF THESE ITEMS WILL CONFLICT, CONTRACTOR MAY LOCATE PULLBOX IN FRONT OF THE LIGHT POLE, WITH ENGINEER'S APPROVAL.

KEYED NOTE

① APPROXIMATE SERVICE POINT LOCATION, COORDINATE WITH CONWAY CORPORATION TO DETERMINE FINAL PLACEMENT.

POLE SCHEDULE							
POLE NO.	LIGHT FIXTURE	PULL BOX AT BASE	HEIGHT	ALIGNMENT	STATION	OFFSET	ORIENTATION ANGLE (PLAN NORTH=0°, ROTATION CCW)
L1	IX A	YES	30'	HWY. 64 (WEST)	13+43	18.7' RT.	358°
L2	IX A	YES	30'	HWY. 64 (WEST)	15+11	28.2' LT.	174°
L3	IX A	YES	30'	HWY. 64 (WEST)	16+09	39.8' RT.	4°
L4	IX A	YES	30'	HWY. 64 (WEST)	17+57	43.6' RT.	322°
L5	IX A	YES	30'	HWY. 64 (WEST)	17+90	54.9' LT.	217°
L6	IX A	YES	30'	HWY. 64 (EAST)	19+61	85.0' LT.	154°
L7	IX A	YES	30'	HOGAN LN.	54+25	43.5' LT.	274°
L8	IX A	YES	30'	HOGAN LN.	53+22	23.6' RT.	82°
L9	IX A	YES	30'	HWY. 64 (EAST)	19+58	81.8' RT.	52°
L10	IX A	YES	30'	HWY. 64 (EAST)	20+45	29.1' LT.	175°
L11	IX A	YES	30'	HWY. 64 (EAST)	21+43	27.9' RT.	7°
L12	IX A	YES	30'	HWY. 64 (EAST)	22+67	29.6' LT.	182°
L13	IX A	YES	30'	HWY. 64 (EAST)	23+87	24.4' RT.	0°
L14	IX A	YES	30'	HWY. 64 (EAST)	24+95	25.1' LT.	180°
SP-1	N/A	N/A	N/A	HWY. 64 (EAST)	17+76	64.6' RT.	310°

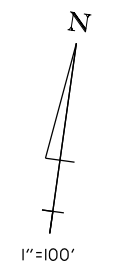
FIXTURE SCHEDULE					
TYPE	DESCRIPTION	DISTRIBUTION	LAMPS		REMARKS
		LUMEN OUTPUT (MINIMUM)	WATTS	TYPE	
A	FIXT STERN I-GL1970-S-BFS-40L40T2 -MDL012SA-R7-PE-HSHB OLD UBK	TYPE 2 18,700 LUMENS	158W	LED	120V 1,2,3,4

- FIXTURE SCHEDULE NOTES:**
- PROVIDE FIXTURES LISTED AND LABELED FOR WET LOCATION.
 - PROVIDE FIXTURE WITH A 7-PIN RECEPTACLE FOR FUTURE CONTROLS.
 - PROVIDE FIXTURE WITH 4000K COLOR TEMPERATURE.
 - PROVIDE FIXTURE WITH A BUG RATING OF U0.

ILLUMINATION DESIGN CRITERIA TABLE		
DESCRIPTION	AVG	AVG/MIN
ROUNDAOBOUTS AND APPROACHES	1.1 fc	4.0:1

CALCULATED STATISTICS (BASED ON 0.77 LLF)		
DESCRIPTION	AVG	AVG/MIN
ROUNDAOBOUTS AND APPROACHES	1.6 fc	4.0:1

- LIGHTING CALCULATIONS NOTES:**
- LIGHTING CALCULATIONS WERE PERFORMED USING AGI32 VERSION 19.10 SOFTWARE.
 - LIGHTING LEVELS ARE IN FOOTCANDLE UNITS (fc).
 - DESIGN BASIS IS THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA, IESNA LIGHTING HANDBOOK, 10TH EDITION, IES RP-8-18, IES DG-19-08, AND AASHTO ROADWAY LIGHTING DESIGN GUIDE (OCT 2018).



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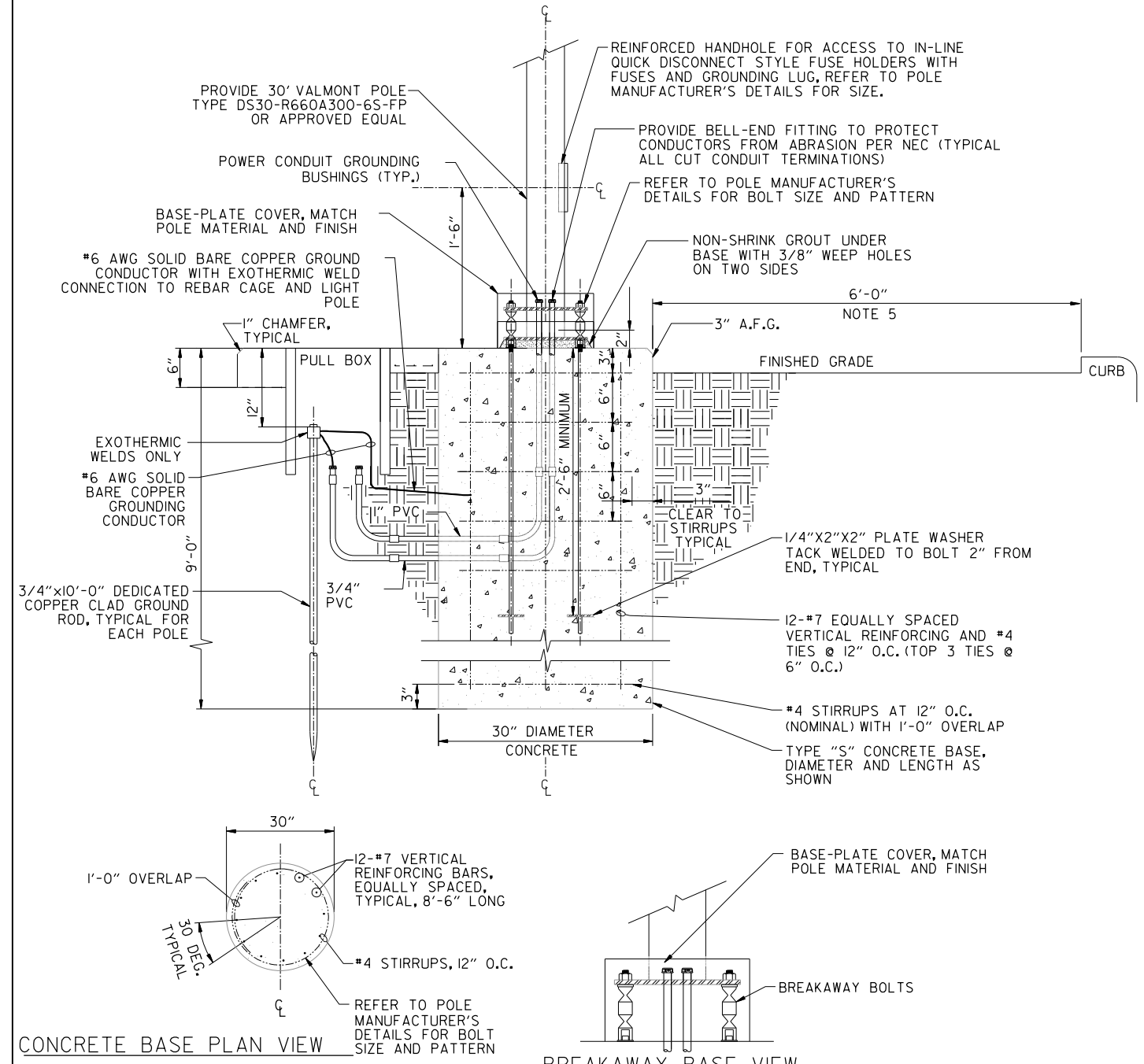
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ELECTRICAL DETAILS I						



3" MIN WIDTH
CAUTION BURIED ELECTRIC LINE BELOW

- WARNING TAPE GENERAL NOTES:**
- POWER MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH RED BACKGROUND AND BLACK LETTERING.
 - TAPE SHALL BE DETECTABLE, DURABLE, HIGHLY VISIBLE, RESISTANT TO ELEMENTS, MEETING AND/OR EXCEEDING ALL INDUSTRY STANDARDS.

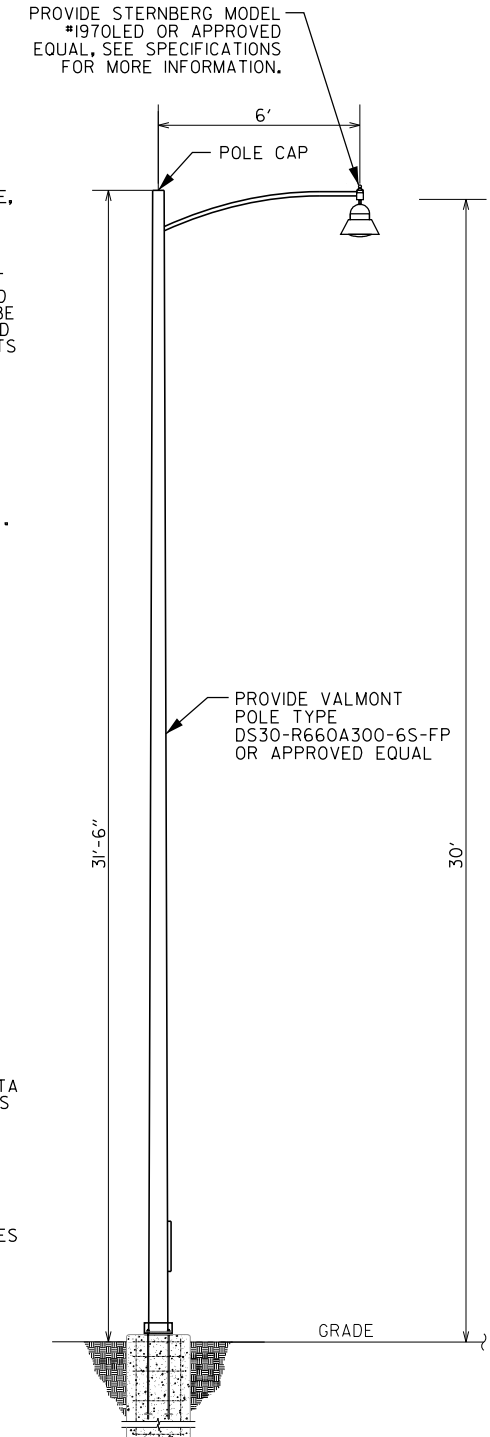
A UNDERGROUND DETECTABLE WARNING TAPE
SCALE: N.T.S.



- NOTES:**
- ALL HARDWARE SHALL BE CORROSION RESISTANT, GALVANIZED RIGID STEEL.
 - CONSTRUCT FOUNDATION IN ACCORDANCE WITH POLE MANUFACTURER'S GUIDELINES, INSTALLING BOLT TEMPLATE LEVELING UNIT, ANCHOR BOLTS, FULL BASE-PLATE BOLT COVER, AND ACCESSORIES FOR A COMPLETE INSTALLATION.
 - REFER TO POLE SCHEDULE FOR CONDUIT AND CONDUCTOR SIZES. USE LONG SWEEP 90 DEGREE ELBOWS ON ALL CONDUIT BENDS.
 - TIE POLE, EQUIPMENT GROUND AND ALL OTHER METAL EQUIPMENT AND GROUNDING LUGS TOGETHER USING #6 AWG SOLID BARE COPPER AND APPROVED GROUNDING CLAMPS AND CONNECT TO GROUND ROD SYSTEM.
 - MINIMUM 6'-0" CLEAR FROM BACK OF ROAD OR PARKING LOT CURB TO CLOSEST EDGE OF ROADLIGHTING LIGHT POLE BASE. WHERE LIGHT POLE BASES NEED TO BE LESS THAN 6'-0" TO AVOID CONFLICT WITH DRAINAGE STRUCTURES, POLES MAY BE LOCATED CLOSER TO THE ROADWAY EDGE WITH ENGINEER'S VERIFICATION AND APPROVAL
 - WHERE POLE FOUNDATION IS ON A SLOPED SURFACE PROVIDE 1' FLAT GRADE EARTH BEFORE RETURNING TO SLOPE. COORDINATE WITH ROADWAY PLANS.
 - METAL POLES SHALL BE GROUNDED PER NEC 410.30 AND PART V.
 - IF THE FINAL GRADE WHERE A LIGHT POLE WILL BE INSTALLED IS TOO STEEP TO ALLOW FOR THE PULLBOX TO BE INSTALLED LEVEL WITH THE LIGHT POLE FOUNDATION, THE CONTRACTOR MAY ADJUST THE PULLBOX TO MATCH THE SLOPE OF THE GRADE INSTEAD. CONTRACTOR SHALL VERIFY THESE LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.

B INDEPENDENT LIGHT POLE FOUNDATION DETAIL
SCALE: N.T.S.

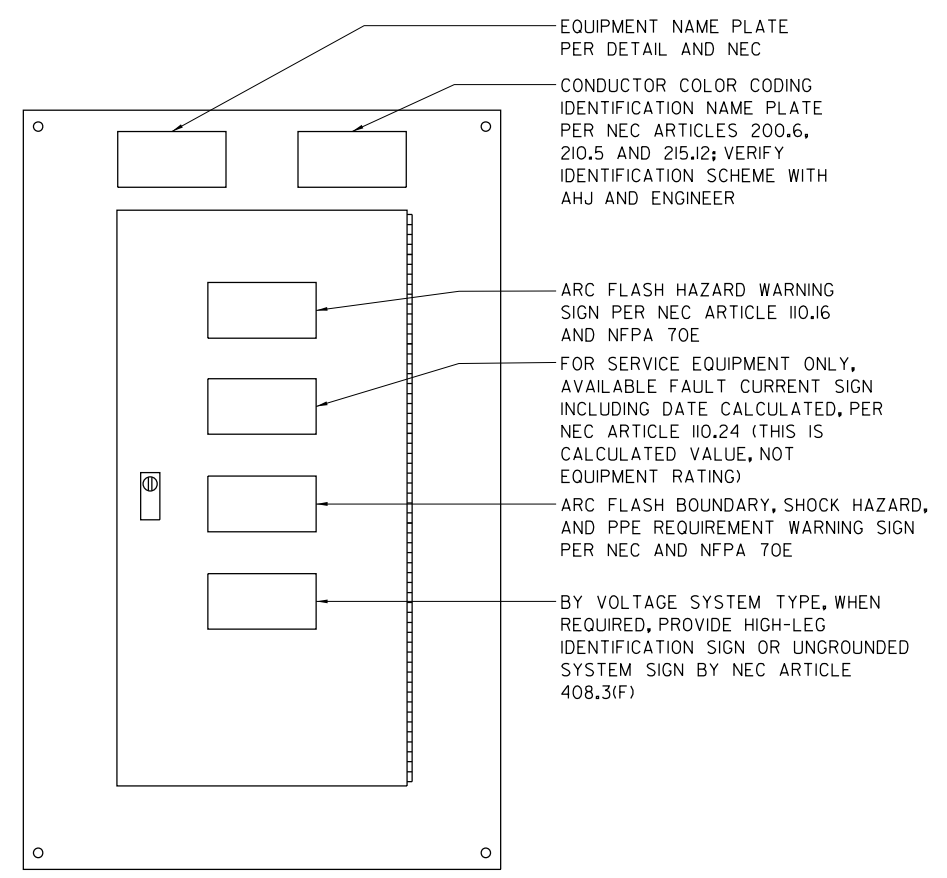
- GENERAL NOTES:**
- INSTALL NEW ROUND, TAPERED, STEEL POLE, ACCESSIBLE GROUNDING PROVISION, BASE COVER, VIBRATION DAMPER, AND ALL REQUIRED MOUNTING ACCESSORIES. POLE SHALL BE DESIGNED FOR THE TOTAL EFFECTIVE PROJECTED AREA OF ALL LIGHT FIXTURES AT A 90 MPH BASIC WIND SPEED WITH 3 SECOND GUST. ALL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION.
 - LIGHT FIXTURE, ARM, AND POLE COLORS SHALL BE BLACK OR APPROVED EQUAL. COLOR TO BE VERIFIED WITH ENGINEER AND CLIENT. STEEL POLE SHALL INCLUDE PRE-TREATMENT PROCESSES AND POWDER COAT FINISH TO PREVENT CORROSION. ALL FIXTURES TO BE WET LOCATION RATED.
 - FINAL ACCEPTANCE TESTING PROCEDURE SHALL CONSIST OF THE FOLLOWING:
 A. REVIEW AND APPROVAL.
 B. CONDUCT MINIMUM 14-DAY FINAL ACCEPTANCE TEST FOR THE COMPLETE LIGHTING SYSTEM. CORRECT MALFUNCTIONING EQUIPMENT AND RETEST. OTHERWISE REMOVE AND REPLACE WITH NEW EQUIPMENT.
 C. REPLACE FAILING AND DIM LEDS AND RETEST.
 D. DURING FINAL ACCEPTANCE TEST PERIOD, TAKE FIELD LIGHT LEVEL MEASUREMENTS (ILLUMINANCE) ALONG THE ENTIRE STRUCTURE, IN A 10' GRID PATTERN COVERING ALL PAVED AREAS, WITH AN ILLUMINANCE METER THAT IS LED RATED. FIELD LEVEL MEASUREMENTS AND CALCULATIONS SHALL MEET OR EXCEED INITIAL LUMEN DESIGN CALCULATIONS. COORDINATE FIELD WORK WITH OWNER AND ENGINEER.
 - ACCEPTANCE CRITERIA SHALL CONSIST OF THE FOLLOWING:
 A. SUBMIT COMPLETE SHOP DRAWING DATA FOR FIXTURE AND LAMP, INCLUDING IES FILE AND LLF CALCULATION.
 B. SUBMIT COMPLETE POINT-BY-POINT PHOTOMETRIC LIGHTING ANALYSIS OF ALL GIVEN AREAS FOR BOTH INITIAL LUMEN AND LLF CALCULATIONS.
 C. LLF DESIGN, LIGHTING ANALYSIS VALUES SHALL MEET OR EXCEED THE ILLUMINATION DESIGN CRITERIA TABLE REQUIREMENTS, NO EXCEPTION.
 - LUMINAIRE ASSEMBLY SHALL BE OF THE FULL CUTOFF TYPE OR HAVE AN UPLIGHT RATING OF U0.



C SINGLE LIGHT FIXTURE ON POLE ELEVATION
SCALE: N.T.S.

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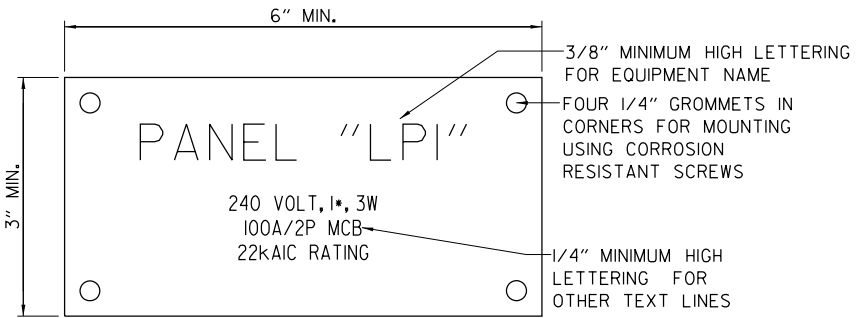
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		6	ARK.	080634	42	80
ELECTRICAL DETAILS II						



PANEL FRONT VIEW

NAMEPLATE GENERAL NOTES:

1. INSTALL ALL NAME PLATES AND WARNING SIGNS IN ACCORDANCE WITH NEC AND NFPA 70E REQUIREMENTS.
2. INSTALL NAME PLATES AND WARNING SIGNS ON ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SWITCHES, CONTROL PANELS AND MOTOR CONTROL CENTERS.
3. EXTERIOR EQUIPMENT SHALL HAVE WEATHER-RESISTANT, NON-FADING NAME PLATES AND SIGNAGE.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL NAME PLATE AND SIGNAGE REQUIREMENTS.



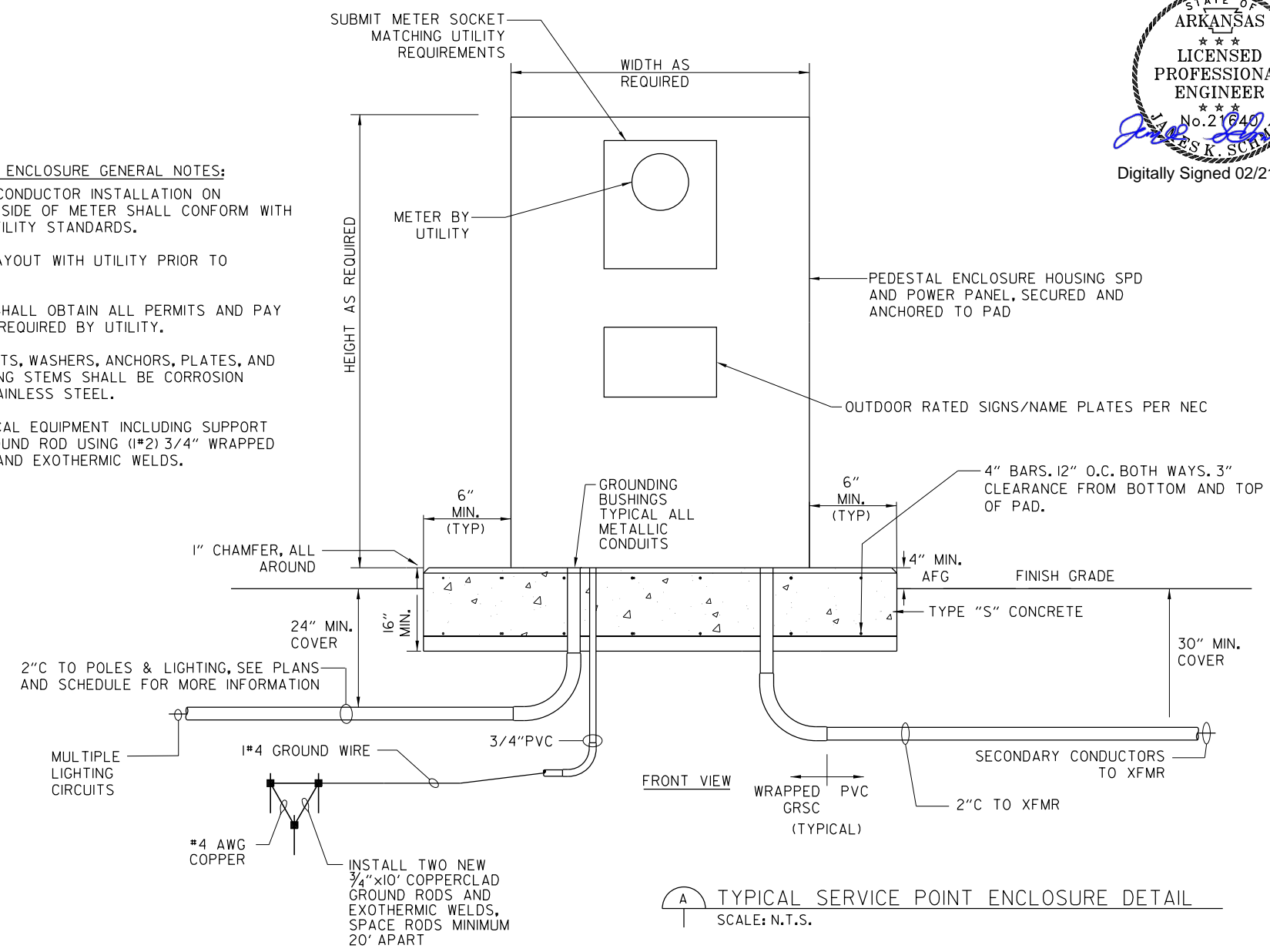
EQUIPMENT NAME PLATE NOTES:

1. INSTALL 2-PLEX ACRYLIC, WHITE ON BLACK CORE, MULTIPLE LINES TEXT, CUSTOM ENGRAVED NAME PLATES.
2. MOUNT WITH STAINLESS STEEL SCREWS.
3. SEAL SCREW HOLES WITH SILICONE RUBBER.
4. NAME PLATE INFORMATION SHALL INCLUDE:
 - A. IDENTIFICATION NAME
 - B. VOLTAGE SYSTEM
 - C. AMPACITY RATING AND TYPE
 - D. EQUIPMENT AIC RATING
 - E. FEEDER DESCRIPTION

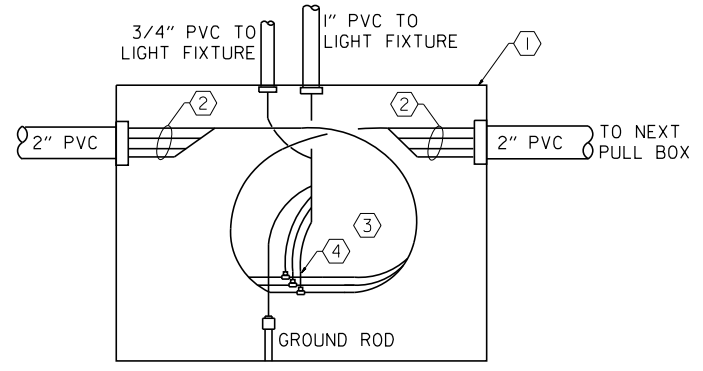
ENGRAVED NAME PLATE AND SIGNAGE DETAIL SCALE: N.T.S.

SERVICE POINT ENCLOSURE GENERAL NOTES:

1. CONDUIT AND CONDUCTOR INSTALLATION ON TRANSFORMER SIDE OF METER SHALL CONFORM WITH ELECTRICAL UTILITY STANDARDS.
2. COORDINATE LAYOUT WITH UTILITY PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY UTILITY.
4. ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING STEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
5. BOND ELECTRICAL EQUIPMENT INCLUDING SUPPORT FRAME TO GROUND ROD USING (1*2) 3/4" WRAPPED GRS CONDUIT AND EXOTHERMIC WELDS.



TYPICAL SERVICE POINT ENCLOSURE DETAIL SCALE: N.T.S.

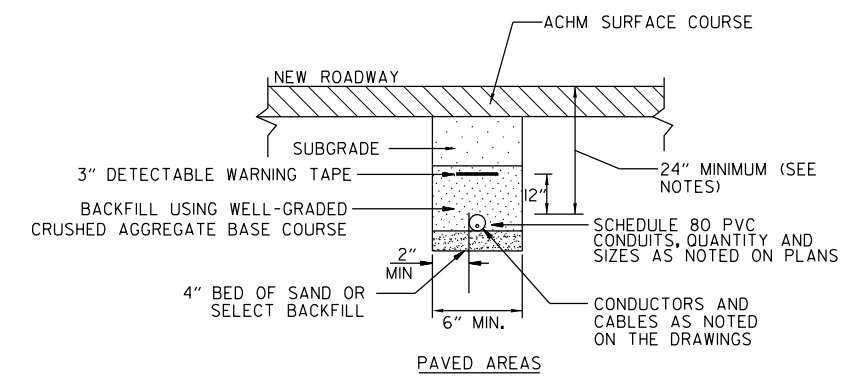
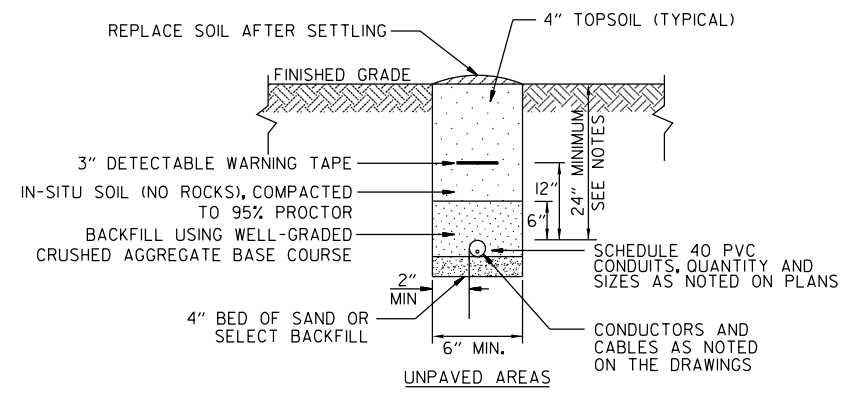


INTERIOR PULLBOX VIEW SCALE: N.T.S.

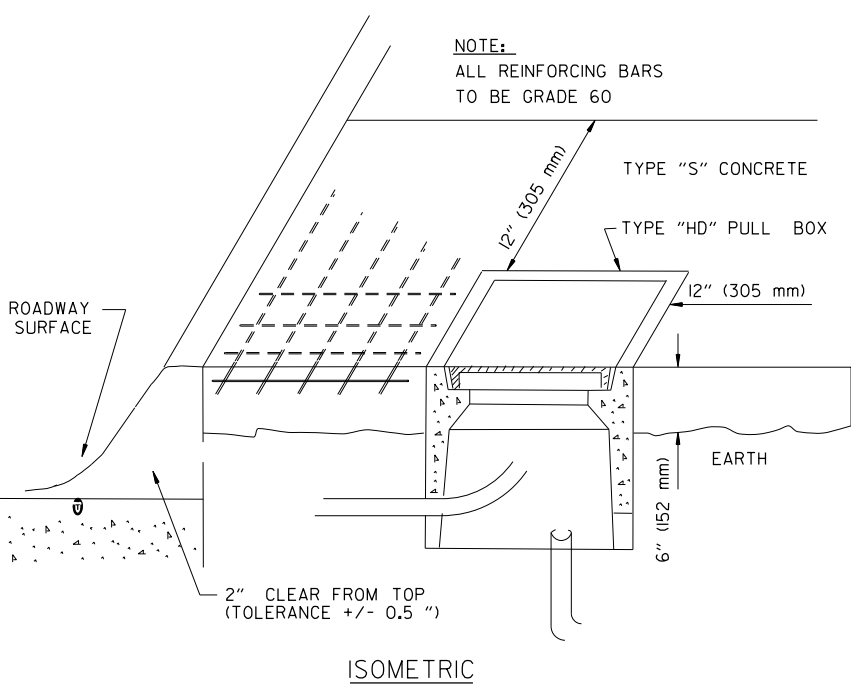
KEYED NOTES:

1. INSTALL TYPE "HD" PULL BOX AS PER ARDOT STANDARD SPECIFICATION 711 AND SP.
2. LOOP THE NEW LIGHTING CIRCUITS WITHIN EACH JUNCTION BOX, SLACK WIRE EQUAL TO ONE COMPLETE LOOP FOR FUTURE USE. NEATLY TRAIN AND LACE BRANCH CIRCUIT BUNDLES TOGETHER WITHIN THE BOX WITH A SEPARATE BUNDLE FOR EACH BRANCH CIRCUIT.
3. ALL CABLES, SPLICES, TERMINATIONS, ETC. SHALL BE RATED 600 VOLTS, WATERPROOF METHOD.
4. ALL CONDUCTORS SHALL BE CONTINUOUS FROM ORIGIN TO EQUIPMENT TERMINATION WITHOUT SPLICES. WHERE LIGHT FIXTURE TAPS ARE REQUIRED, TAPS SHALL BE MADE USING A SEALED, INSULATED PRESSURE CONNECTOR PROVIDING BOTH INSULATION AND JACKET EQUAL TO THE CABLE. CONNECTORS SHALL BE 600V RATED, 150 DEGREE C TEMPERATURE RATED, AND UL LISTED.

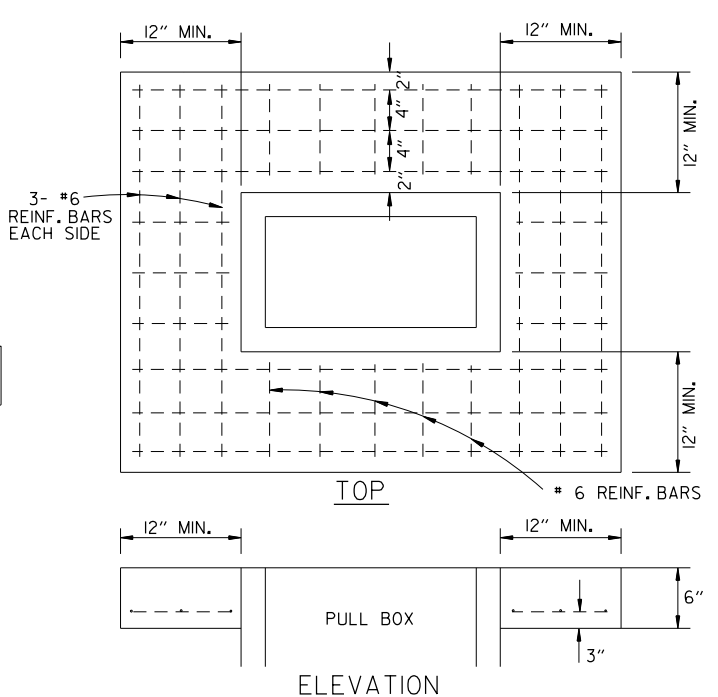
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A NON-ENCASED ELECTRICAL DUCT BANK DETAILS
SCALE: N.T.S.



ISOMETRIC



ELEVATION

B TYPE "HD" CONCRETE PULL BOX DETAIL
SCALE: N.T.S.

ELECTRICAL DUCT NOTES:

- CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES. STAKING PLAN SHALL BE APPROVED BY OWNER AND ENGINEER PRIOR TO WORK.
- CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING AND NEW UTILITIES.
- SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES.
- INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING. UTILIZE LOCKING COLLARS OR HOLD DOWN BARS WITH ANCHORS TO PREVENT DUCT FLOTATION. (TYPICAL ALL DUCTS).
- NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT.
- INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS/CONDUITS.
- MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
- VERTICAL AND HORIZONTAL DISTANCES BETWEEN CONDUITS SHALL BE 3" MINIMUM FOR DUCTS CONTAINING CIRCUITS OVER 600 VOLTS.
- END BELLS OR COUPLINGS WITH REMOVABLE FACTORY PLUGS SHALL BE INSTALLED FLUSH WITH THE CONCRETE ENCASEMENT AT ACCESS POINTS.
- ROCK REMOVAL SHALL BE CONSIDERED SUBSIDIARY TO DUCT INSTALLATION.

KEYED NOTES:

- UTILITY TRANSFORMER BY CONWAY CORPORATION. SECONDARY SERVICE 240/120V, 1PHASE, 3W, COORDINATE ALL WORK AND EQUIPMENT WITH CONWAY CORPORATION
- 3*2, 2"C, UTILIZE ALUMINUM CONDUCTOR FOR SERVICE
- WEATHERPROOF PHOTOCELL FOR LIGHTING CONTROL
- 100A PANEL BOARD AND APPURTENANCES WITH ENCLOSURE
- TEN POLE 30A LIGHTING CONTACTOR
- 2*10, 1*10 EGC, 2"C.
- 2" CONDUIT WITH PULL TAPE
- 3*6, 3/4"C.
- 2*12, 1*12 EGC, 3/4"C.
- 2*8, 1*8 EG, 2"C
- 2*6, 1*6 EGC, 2"C.

GENERAL NOTES

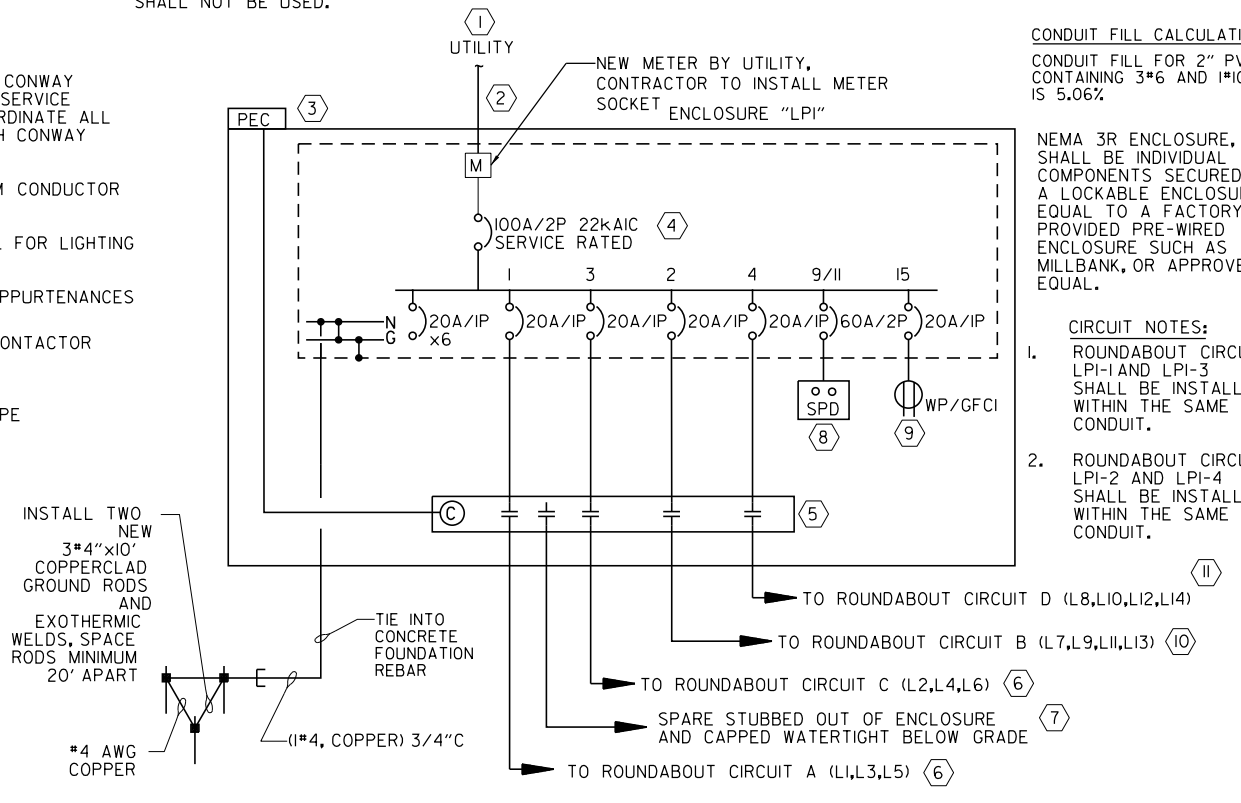
- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2023) NATIONAL ELECTRICAL CODE, NFPA 101 (2021) LIFE SAFETY CODE, STATE ELECTRICAL CODE, AND LOCAL ELECTRICAL CODE.
- COORDINATE ELECTRICAL POWER SUPPLY WITH EQUIPMENT SUPPLIED.
- COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH CITY AND POWER UTILITY.
- SERVICE WIRING SHALL BE MINIMUM TYPE THHN/THWN-2.
- FEEDER AND BRANCH WIRING SHALL BE MINIMUM TYPE THHN/THWN-2.
- EQUIPMENT SHORT CIRCUIT CURRENT RATINGS AND AVAILABLE INTERRUPTING CURRENT RATINGS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS. SERIES RATED SYSTEMS SHALL NOT BE USED.

- NEUTRAL BUSES SHALL BE COPPER 100% RATED UNLESS OTHERWISE NOTED.
- GROUND BUSES SHALL BE COPPER UNLESS OTHERWISE NOTED.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
- INSTALL ALL CONDUCTORS AND CABLES IN CONDUIT UNLESS OTHERWISE NOTED.
- INSTALL LUGS AND JUNCTION BOXES AS REQUIRED TO FIT WIRING.
- INSTALL NEW TYPED PANEL SCHEDULES IN ALL ELECTRICAL PANELS INDICATING WORK PERFORMED.
- THE POWER UTILITY POINT OF CONTACT IS DALE GOTTSPONER, CONWAY CORPORATION, PHONE NUMBER 501-450-6049.
- CONDUIT FILL IS PER NEC 2023 CHAPTER 9 CALCULATIONS AND TABLES.

CONDUIT FILL CALCULATIONS:
CONDUIT FILL FOR 2" PVC CONTAINING 3*6 AND 1*10 EGC IS 5.06%

NEMA 3R ENCLOSURE, SHALL BE INDIVIDUAL COMPONENTS SECURED IN A LOCKABLE ENCLOSURE EQUAL TO A FACTORY PROVIDED PRE-WIRED ENCLOSURE SUCH AS MILBANK, OR APPROVED EQUAL.

- CIRCUIT NOTES:**
- ROUNDBOULT CIRCUIT LPI-1 AND LPI-3 SHALL BE INSTALLED WITHIN THE SAME 2" CONDUIT.
 - ROUNDBOULT CIRCUIT LPI-2 AND LPI-4 SHALL BE INSTALLED WITHIN THE SAME 2" CONDUIT.



C PROPOSED ONE LINE DIAGRAM FOR ROUNDBOULT LIGHTING
SCALE: N.T.S.

NOTES:

- ALL TYPE HD PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" (305 MM) WIDE AND 6" (152 MM) IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD PULL BOX. PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S." THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE PULL BOX ARE REQUIRED IN CONCRETE.
- UL LISTED PULL BOX AND EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
- PULL BOX INTERIOR DIMENSIONS SHALL BE 24" L x 18" W x 18" D (OPEN BOTTOM).
- PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
- COLOR CODE, TAG AND IDENTIFY ALL CABLES IN UL LISTED PULL BOX.
- EXACT LOCATION OF EACH UL LISTED PULL BOX SHALL BE APPROVED BY THE OWNER AND ENGINEER.

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PANEL NAME: LP1		VOLTAGE 120/240		PHASE: 1		WIRE: 3		NEUTRAL RATING: 100%		PANEL DESCRIPTION: Lighting Panel					
MAINS: 100A MCB		MOUNTING: Surface		MAX. NO. OF CIRCUITS: 16		MANUFACTURER:		PANEL A.I.C. RATING: 22,000		LOCATION: Exterior Pedestal					
NO	DESCRIPTION	BRANCH		WIRE (AWG)	VA		Load Type	Load Type	VA		WIRE (AWG)	BRANCH		DESCRIPTION	NO.
		POLES	BKR		L1	L2			L1	L2		BKR	POLES		
1	ROUNABOUT CIRCUIT A (L1,L3,L5)	1	20	10	474		L	L	632		8	20	1	ROUNABOUT CIRCUIT C (L2,L4,L6)	2
3	ROUNABOUT CIRCUIT B (L7,L9,L11,L13)	1	20	10		474	L	L		632	6	20	1	ROUNABOUT CIRCUIT D (L8,L10,L12,L14)	4
5	SPARE	1	20	-			-	-			-	20	1	SPARE	6
7	SPARE	1	20	-			-	-			-	20	1	SPARE	8
9	SPD	2	60	6			E	-			-	-	-	SPACE	10
11		-	-	6			E	-			-	-	-	SPACE	12
13	SPARE	1	20	-			-	-			-	-	-	SPACE	14
15	GFCI RECEPTACLE	1	20	12			R	-			-	-	-	SPACE	16

Description	Code	L1	L2	Total	
				SUM	%
LIGHTING	L	1106	1106	2212	100
RECEPT	R	0	0	0	0
EQUIP.	E	0	0	0	0
OTHER		0	0	0	0
HVAC	H	0	0	0	0
CUSTOM	HC	0	0	0	0
ADDITIONAL		0	0	0	0
TOTAL		1106	1106	2212	
DEMAND		1106	1106	2212	100
%		50	50		

Design Load (kVA)	2.77
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
2.77	

Total Connected Load	9.2 Amps	2.21 kVA
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Total Design Load *	13.6 Amps	3.25 kVA
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* Total Design Load includes calculated Design Loads per NEC Demand Factors and the stated Spare Capacity.

Spare 15%

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-A	LP1-L4	1	10	55	3.96	120	1	85%	Copper	PVC	1.1	0.47916	0.40%
LP1-A	L4-L5	1	10	140	1.32	120	1	85%	Copper	PVC	1.1	0.40656	0.34%
LP1-A	L4-L3	1	10	175	2.64	119	1	85%	Copper	PVC	1.1	1.0164	0.85%
LP1-A	L3-L1	1	10	300	1.32	118	1	85%	Copper	PVC	1.1	0.8712	0.74%
Total %VD												2.33%	

Project: 17017654

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-C	LP1-L4	1	10	55	3.96	120	1	85%	Copper	PVC	1.1	0.47916	0.40%
LP1-C	L4-L6	1	10	260	1.32	120	1	85%	Copper	PVC	1.1	0.75504	0.63%
LP1-C	L4-L2	1	10	340	1.32	119	1	85%	Copper	PVC	1.1	0.98736	0.83%
Total %VD												1.86%	

Project: 17017654

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-B	LP1-L7	1	8	110	5.28	120	1	85%	Copper	PVC	0.69	0.801504	0.67%
LP1-B	L7-L9	1	8	190	3.96	119	1	85%	Copper	PVC	0.69	1.038312	0.87%
LP1-B	L9-L11	1	8	225	2.64	118	1	85%	Copper	PVC	0.69	0.81972	0.69%
LP1-B	L11-L13	1	8	270	1.32	117	1	85%	Copper	PVC	0.69	0.491832	0.42%
Total %VD												2.65%	

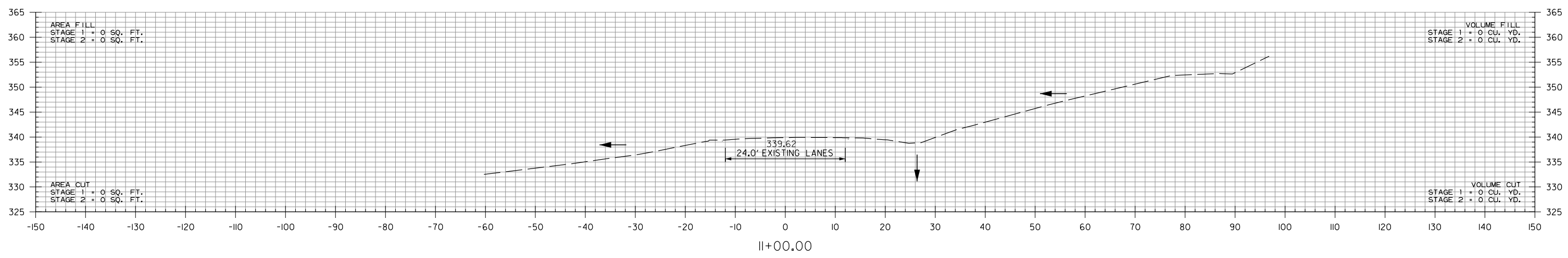
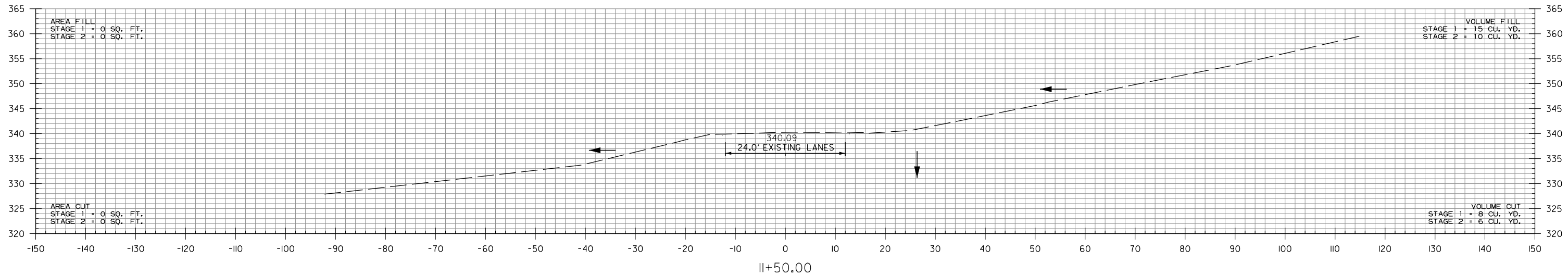
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Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-D	LP1-PB	1	6	155	5.28	120	1	85%	Copper	PVC	0.44	0.720192	0.60%
LP1-D	PB-L8	1	6	115	1.32	119	1	85%	Copper	PVC	0.44	0.133584	0.11%
LP1-D	PB-PB	1	6	285	3.96	119	1	85%	Copper	PVC	0.44	0.993168	0.83%
LP1-D	PB-L10	1	6	50	1.32	118	1	85%	Copper	PVC	0.44	0.05808	0.05%
LP1-D	PB-L12	1	6	230	2.64	118	1	85%	Copper	PVC	0.44	0.534336	0.45%
LP1-D	L12-L14	1	6	260	1.32	118	1	85%	Copper	PVC	0.44	0.302016	0.26%
Total %VD												2.30%	

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CROSS SECTIONS						



STA. II+00.00 BEGIN VERTICAL TRANSITION

HWY. 64
 STA. II+00 TO STA. II+50

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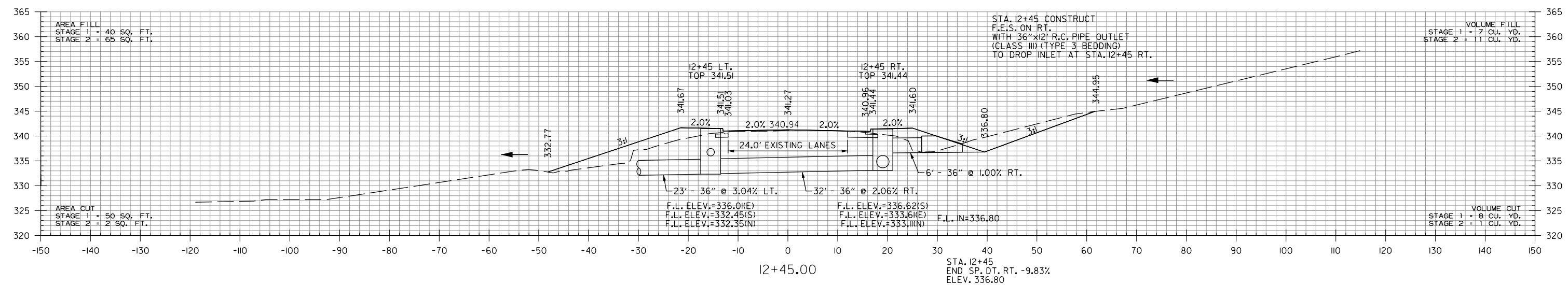
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STA. 12+45
 BEGIN SP. DT. RT. 9.94%
 ELEV. 336.80

STA. 12+45 CONSTRUCT
 JUNCTION BOX ON LT. H=9'-2"
 WITH 36"x23' R.C. PIPE OUTLET
 (CLASS III) (TYPE 3 BEDDING)
 TO F.E.S. AT STA. 12+52 LT.
 TYPE E JUNCTION BOX = 4'-6"x3'

STA. 12+45 CONSTRUCT
 DROP INLET ON RT. H=8'-4" W/ 4' EXT.
 WITH 36"x32' R.C. PIPE OUTLET
 (CLASS III) (TYPE 2 BEDDING)
 TO JUNCTION BOX AT STA. 12+45 LT.
 TYPE C DROP INLET = 4'x4'
 TYPE M0 DROP INLET = 6' DIA.

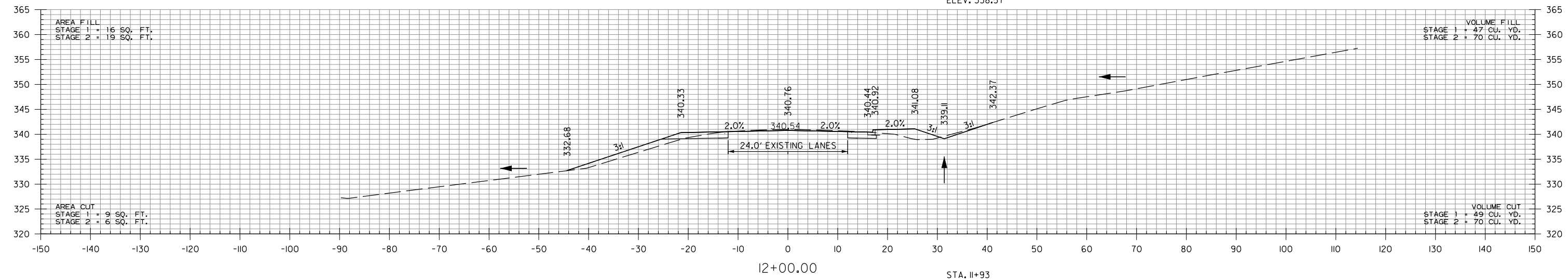
STA. 12+45 CONSTRUCT
 F.E.S. ON RT.
 WITH 36"x12' R.C. PIPE OUTLET
 (CLASS III) (TYPE 3 BEDDING)
 TO DROP INLET AT STA. 12+45 RT.



STA. 12+45
 END SP. DT. RT. -9.83%
 ELEV. 336.80

STA. 12+27
 BEGIN SP. DT. RT. -9.83%
 ELEV. 338.57

STA. 12+27
 END SP. DT. RT. -2.00%
 ELEV. 338.57



STA. 12+00.00 BEGIN JOB 080634
 STA. 12+00.00 END VERTICAL TRANSITION

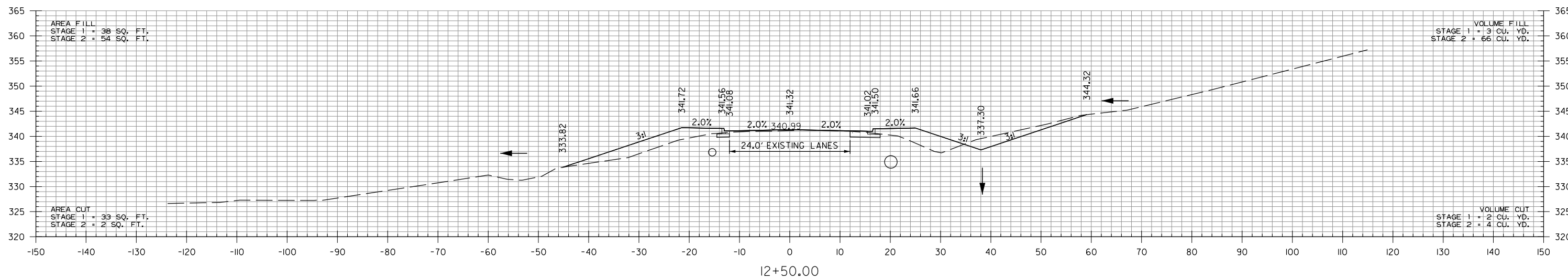
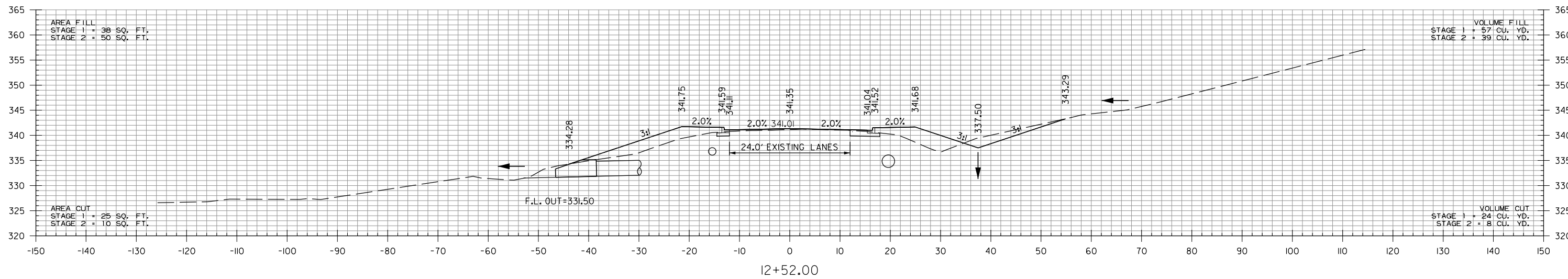
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 STA. 12+00 TO STA. 12+45

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CROSS SECTIONS						

STA. 12+62
 BEGIN SP. DT. RT. 2.00%
 ELEV. 338.49

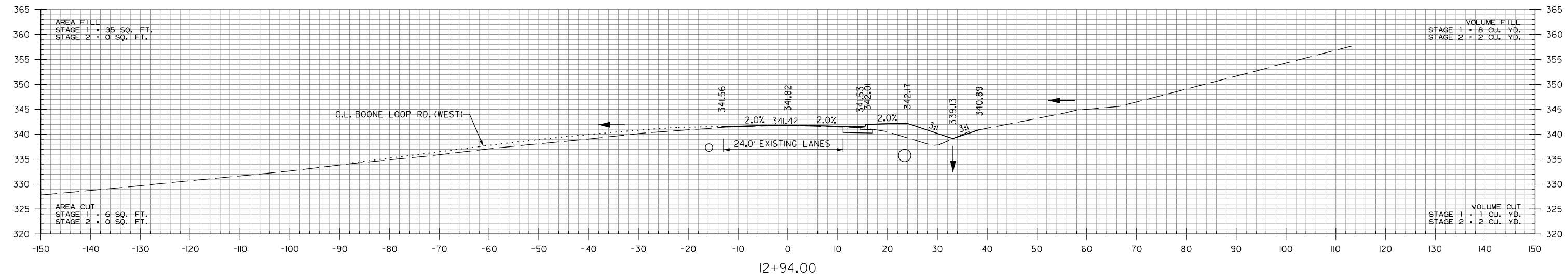
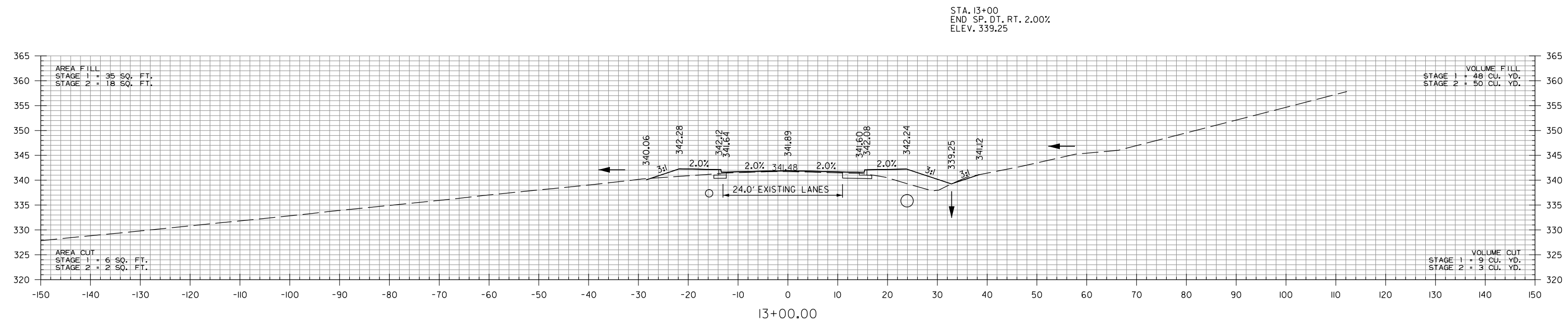
STA. 12+62
 END SP. DT. RT. 9.94%
 ELEV. 338.49



HWY. 64
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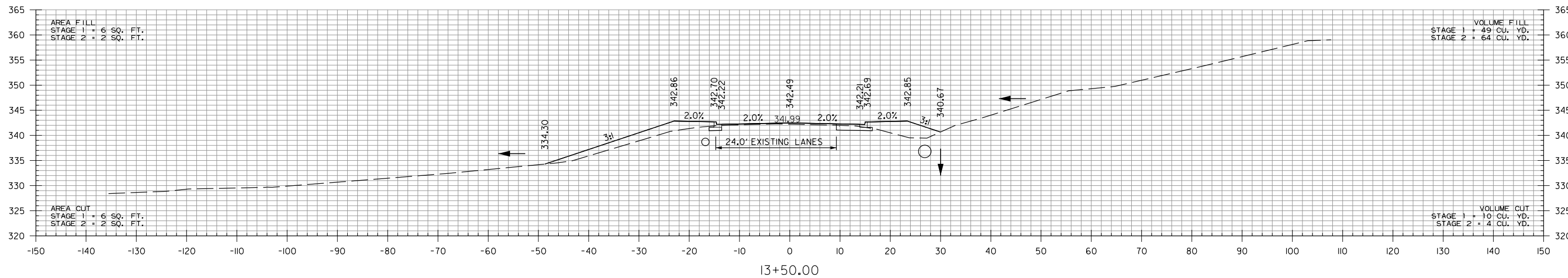
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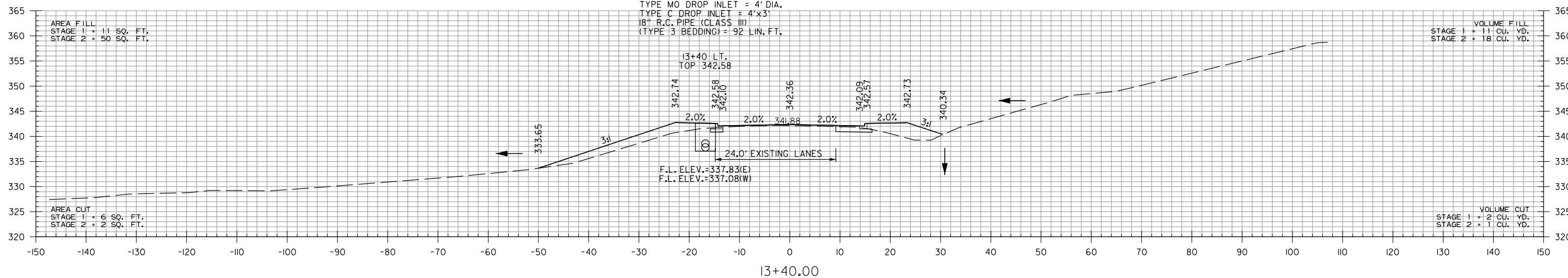
HWY. 64
STA. 12+94 TO STA. 13+00

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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CROSS SECTIONS						



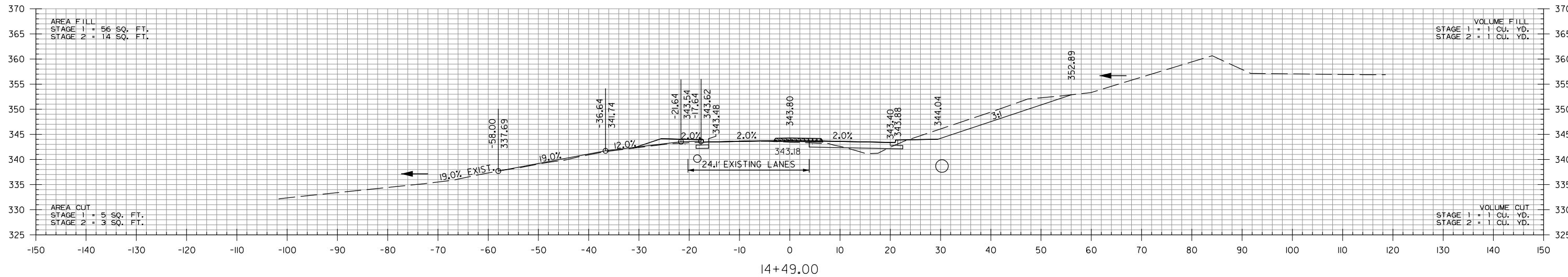
STA. 13+40 CONSTRUCT
DROP INLET ON LT. H=5'-6" W/ 4' EXT.
WITH 18"x92' PIPE OUTLET
TO JUNCTION BOX AT STA. 12+45 LT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET (CLASS III)
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 92 LIN. FT.



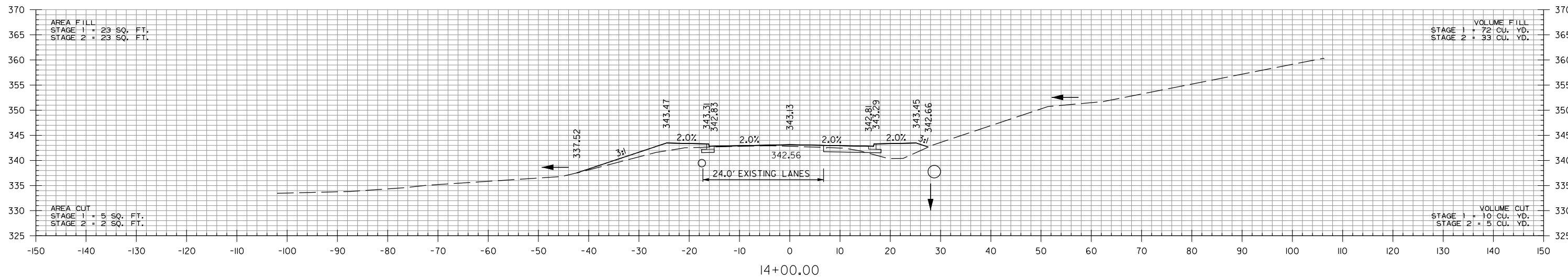
HWY. 64
STA. 13+40 TO STA. 13+50

WBCollinsway 2/20/2024 9:46:05 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan Ln\Drawings\080634_CX_ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	50	80
CROSS SECTIONS						



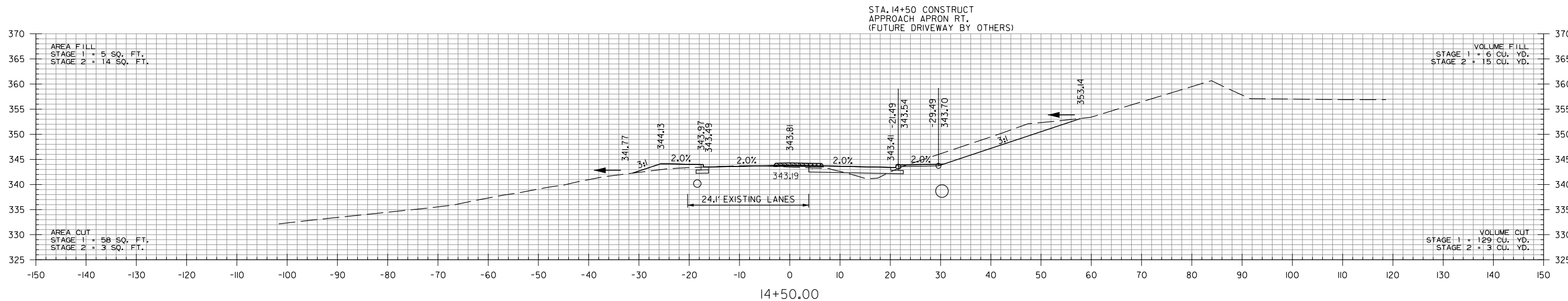
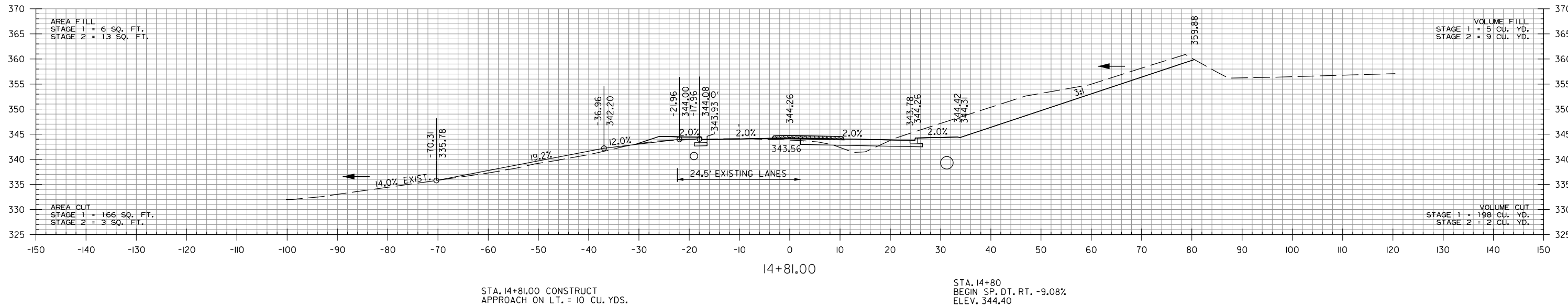
STA. 14+49.00 CONSTRUCT
 APPROACH ON LT. = 10 CU. YDS.



HWY. 64
 STA. 14+00 TO STA. 14+49

WBCollinsway 2/20/2024 9:46:05 AM
 WORKSPACE: AHTD
 L:\2021\071654 - ARDOT 080634 Hwy64-Hogan L\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

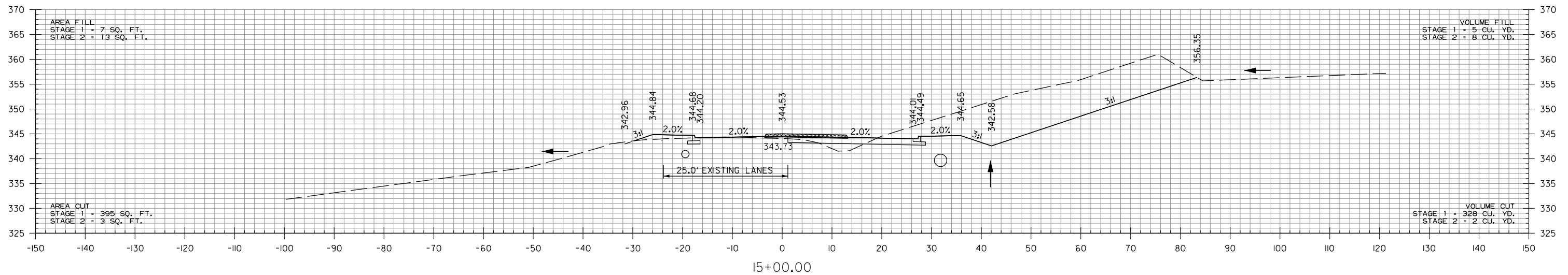
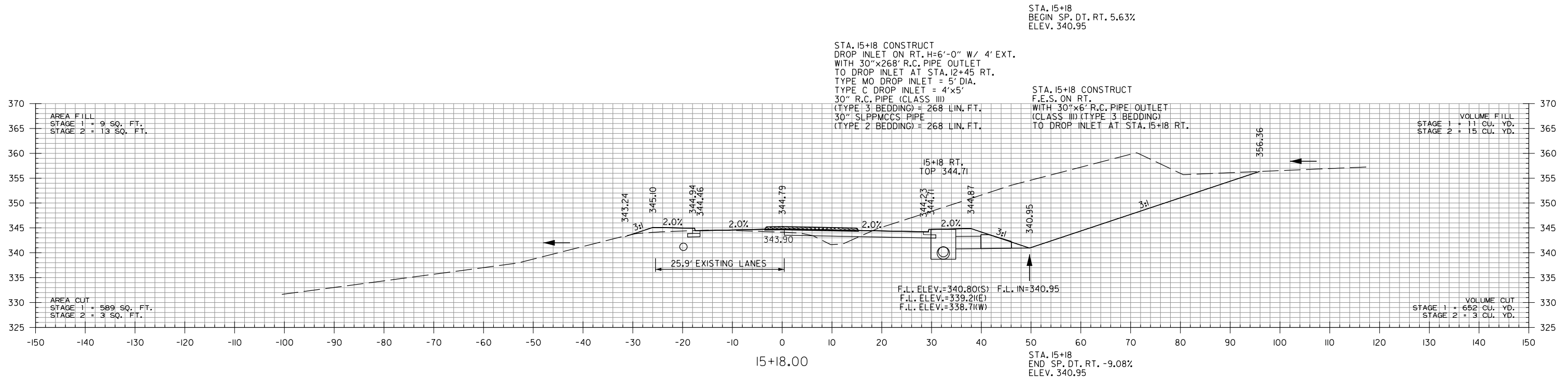
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	51	80
CROSS SECTIONS						



HWY. 64
STA. 14+50 TO STA. 14+81

2/20/2024 9:46:16 AM
 WBCollinsy
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan L\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

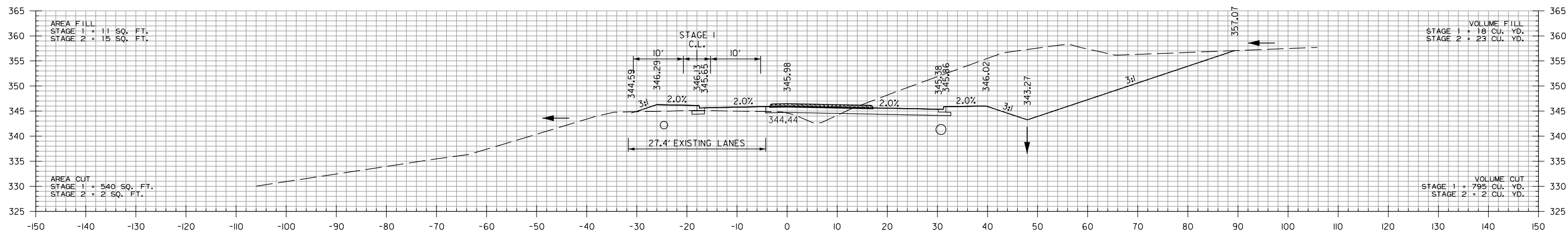
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	52	80
CROSS SECTIONS						



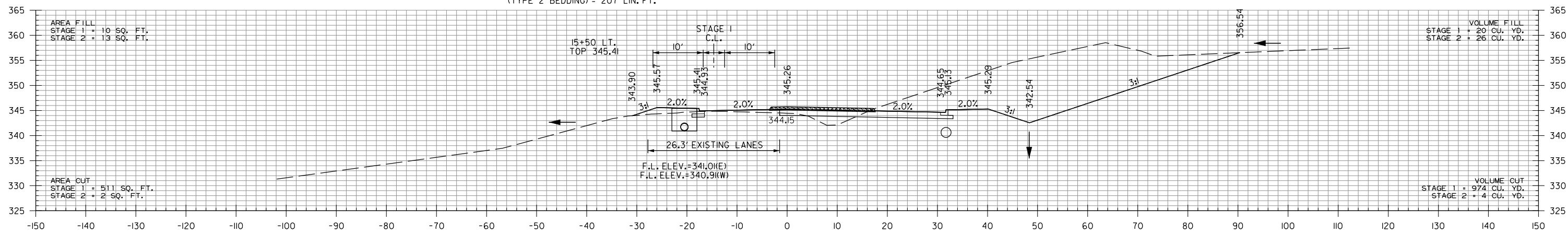
HWY. 64
STA. 15+00 TO STA. 15+18

2/20/2024 9:46:16 AM
 WBCollinsy AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan L:\Drawings\080634_CX_ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	53	80
CROSS SECTIONS						



STA. 15+50 CONSTRUCT
 DROP INLET ON LT. H=4'-6" W/ 4' EXT.
 WITH 18"x20" PIPE OUTLET
 TO DROP INLET AT STA. 13+40 LT.
 TYPE MO DROP INLET = 5" DIA.
 TYPE C DROP INLET = 4'x5"
 18" R.C. PIPE (CLASS III)
 (TYPE 3 BEDDING) = 207 LIN. FT.
 18" SLPPMCCS PIPE
 (TYPE 2 BEDDING) = 207 LIN. FT.

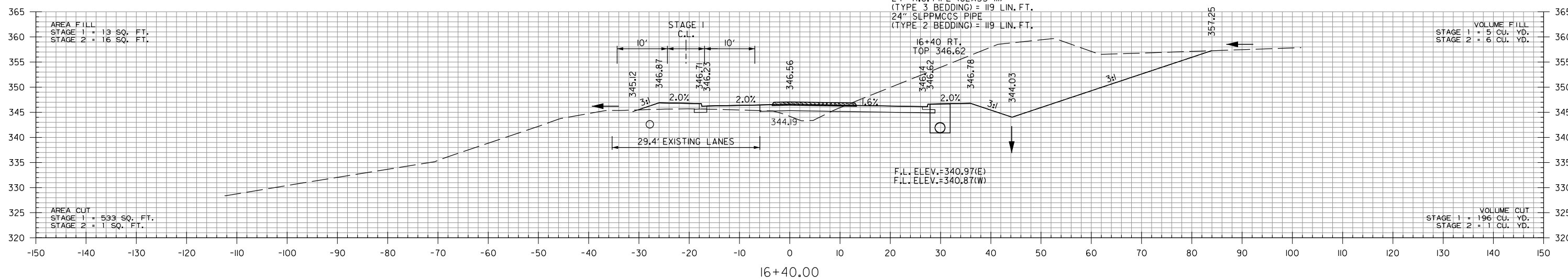
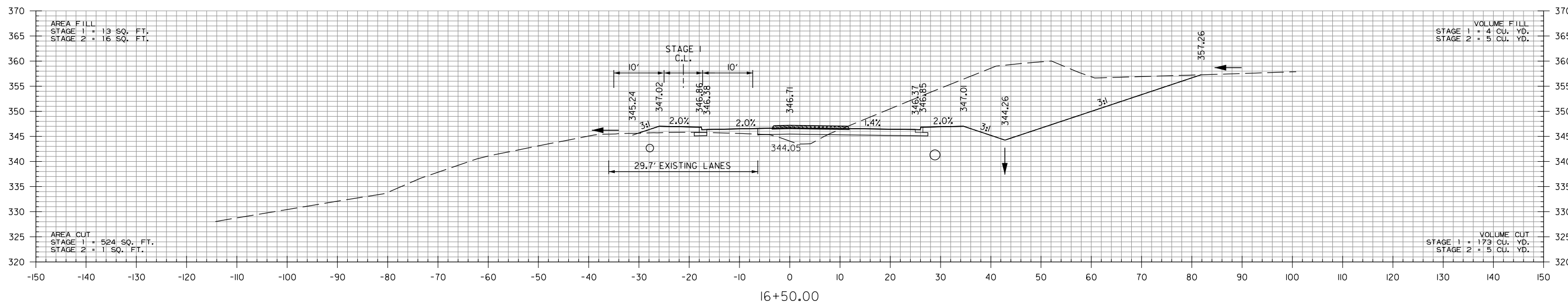


STA. 15+45
 END SP. DT. RT. 5.63%
 ELEV. 342.47

HWY. 64
 STA. 15+50 TO STA. 16+00

2/20/2024 9:46:16 AM
 W:\CALLOWAY\WORKSPACE\AHTD
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 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	54	80
CROSS SECTIONS						



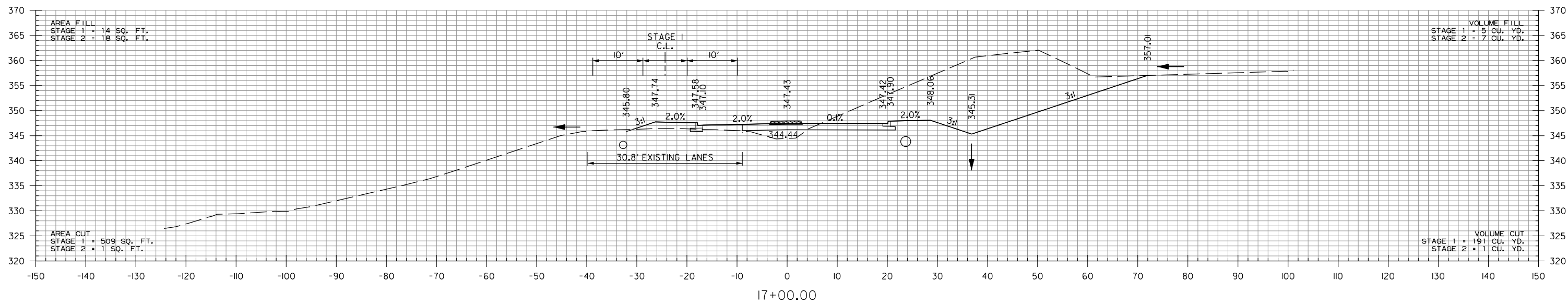
STA. 16+40 CONSTRUCT
DROP INLET ON RT. H=5'-9" W/ 4' EXT.
WITH 24"x119' PIPE OUTLET
TO DROP INLET AT STA. 15+18 RT.
TYPE M0 DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x4'
24" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 119 LIN. FT.
24" SLPPMCCS PIPE
(TYPE 2 BEDDING) = 119 LIN. FT.

F.I.L. ELEV.=340.97(E)
F.I.L. ELEV.=340.87(W)

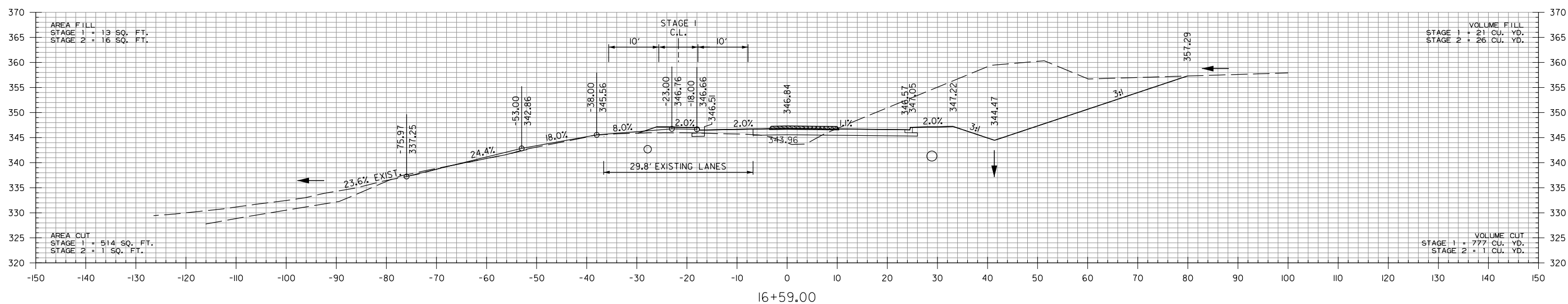
HWY. 64
STA. 16+40 TO STA. 16+50

W:\Collins\2/20/2024 9:46:16 AM
 WORKSPACE: AHTD
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 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	55	80
CROSS SECTIONS						



NOTE:
 DUE TO SKEW, EXISTING AND PROPOSED GRADES FOLLOW CENTER OF DRIVEWAY BEYOND EDGE OF CURB

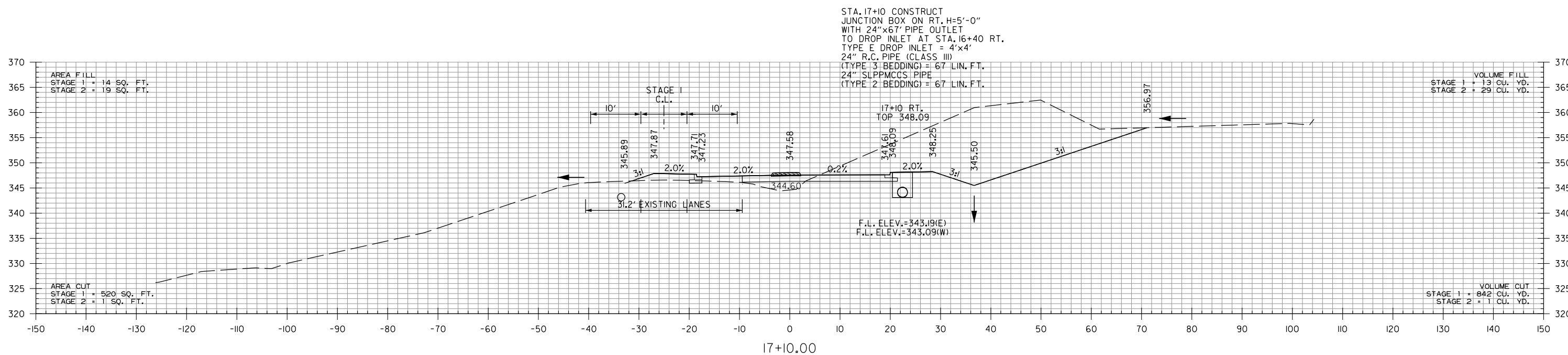
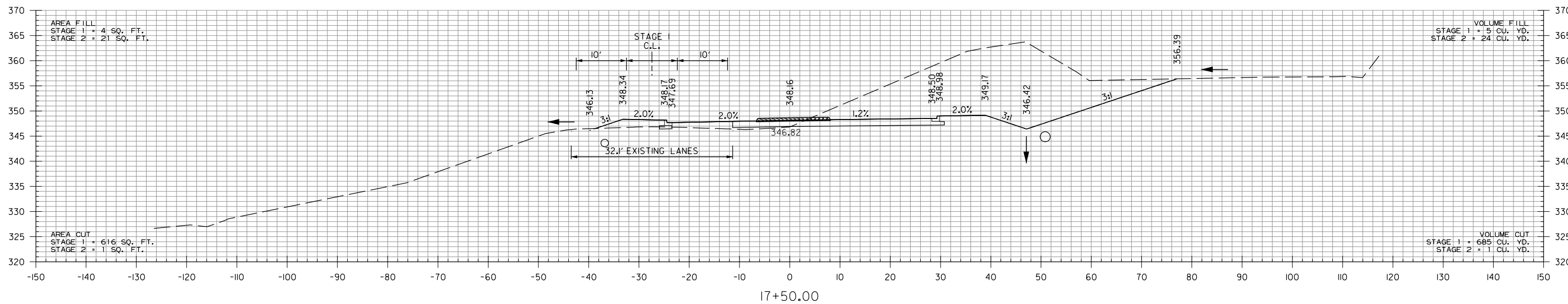


STA. 16+59.00 CONSTRUCT APPROACH ON LT. = 15 CU. YDS.

HWY. 64
 STA. 16+59 TO STA. 17+00

2/20/2024 9:46:16 AM
 WORKSPACE: AHTD
 L:\2021\1701654 - ARDOT 080634 Hwy64-Hogan L\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	56	80
CROSS SECTIONS						

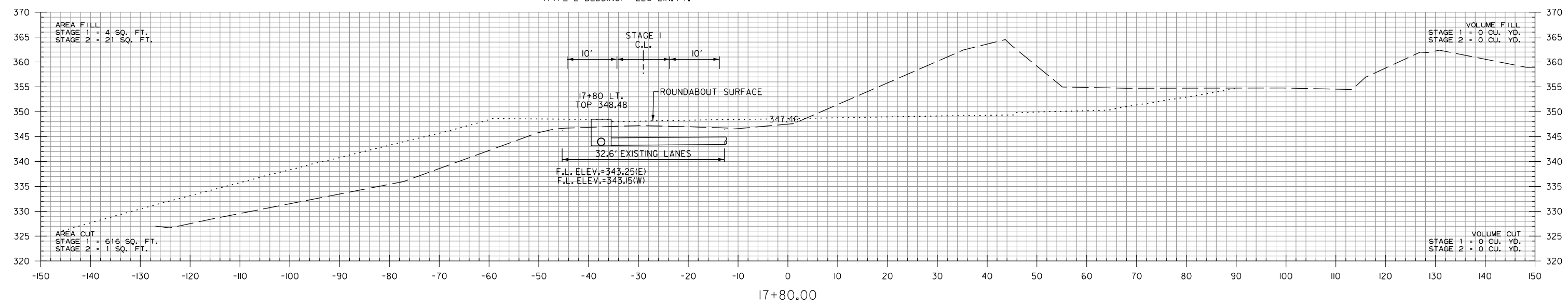


WBCollins 2/20/2024 9:46:16 AM
 WORKSPACE: AHTD
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 REVISED DATE:

HWY. 64
 STA. 17+10 TO STA. 17+50

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	57	80
CROSS SECTIONS						

STA. 17+80 CONSTRUCT
 DROP INLET ON LT. H=5'-4" W/ 8' EXT.
 WITH 18"x226' PIPE OUTLET
 TO DROP INLET AT STA. 15+50 LT.
 TYPE MO DROP INLET = 4' DIA.
 TYPE C DROP INLET = 4'x3'
 18" R.C. PIPE (CLASS III)
 (TYPE 3 BEDDING) = 226 LIN. FT.
 18" SLPPMCCS PIPE
 (TYPE 2 BEDDING) = 226 LIN. FT.



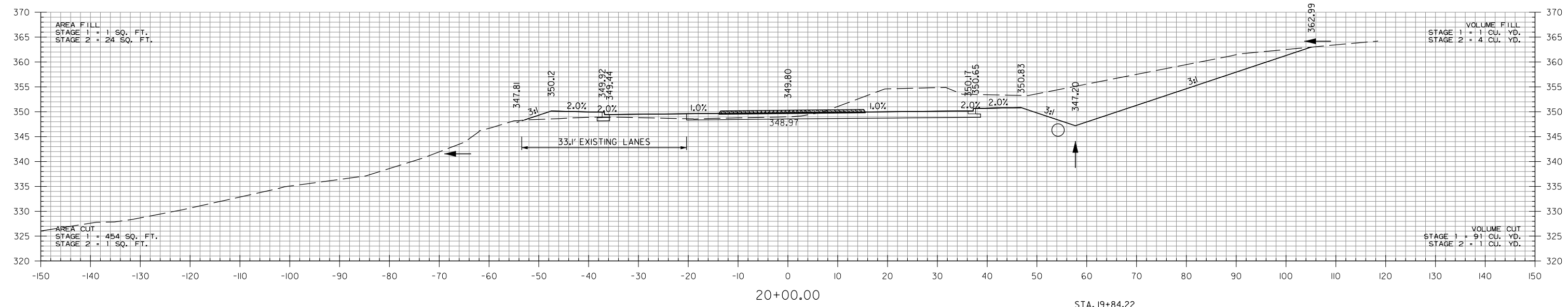
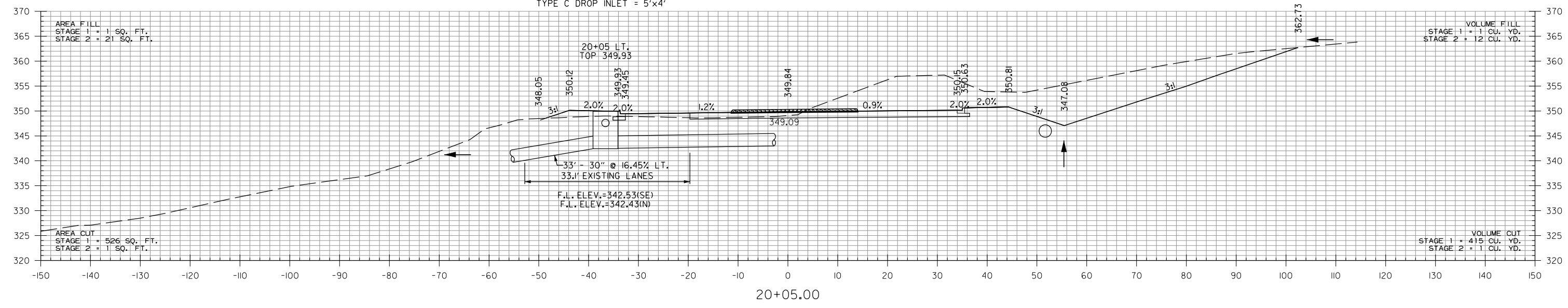
17+80.00
 STA. 17+74.93 BEGIN ROUNDABOUT

HWY. 64
 STA. 17+80 TO STA. 17+80

2/20/2024 9:46:16 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogon L\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	58	80
CROSS SECTIONS						

STA. 20+05 CONSTRUCT
 DROP INLET ON LT. H=7'-6" W/ 4' EXT.
 WITH 30"x33" R.C. PIPE OUTLET
 (CLASS III) (TYPE 3 BEDDING)
 TO F.E.S. AT STA. 20+23 LT.
 TYPE MO DROP INLET = 5' DIA.
 TYPE C DROP INLET = 5'x4'



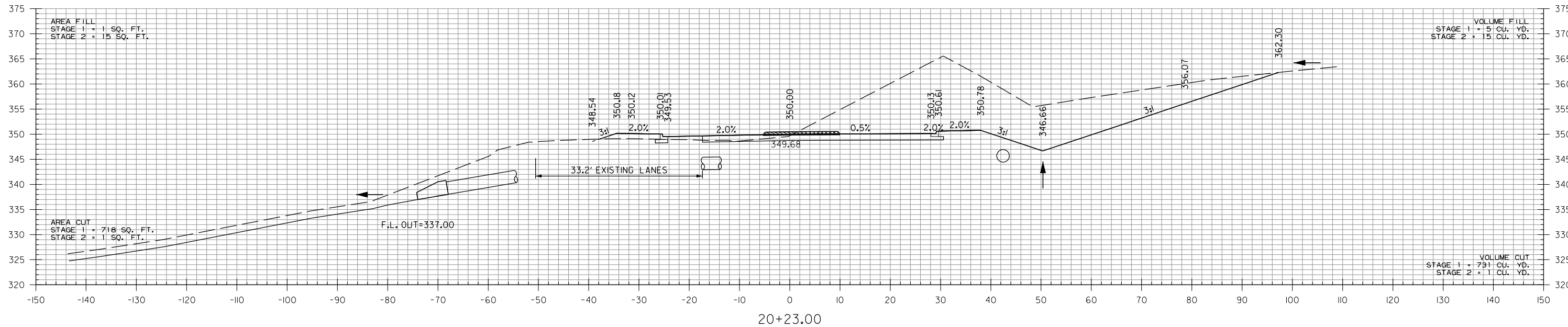
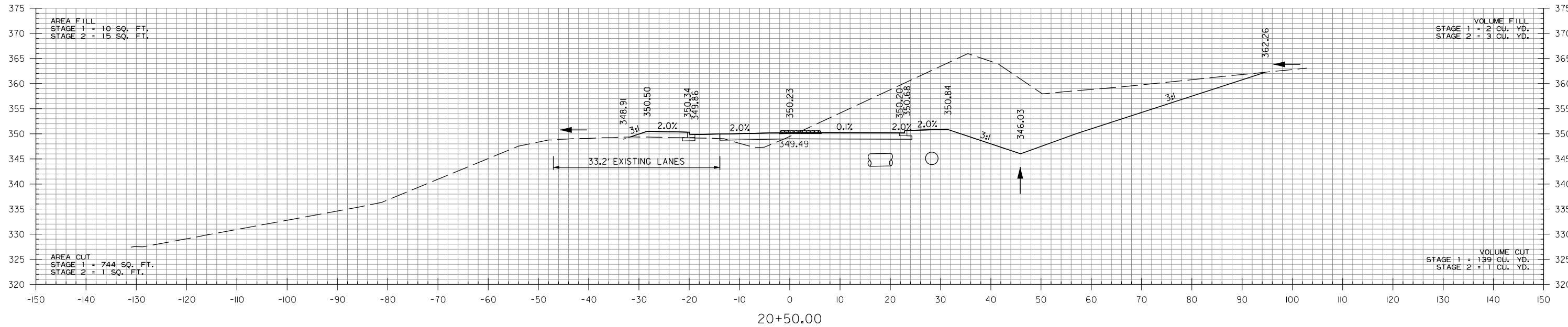
STA. 19+94.50 END ROUNDABOUT

STA. 19+84.22
 BEGIN SP. DT. RT. -2.34%
 ELEV. 347.57

HWY. 64
 STA. 20+00 TO STA. 20+05

2/20/2024 9:46:16 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan L:\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

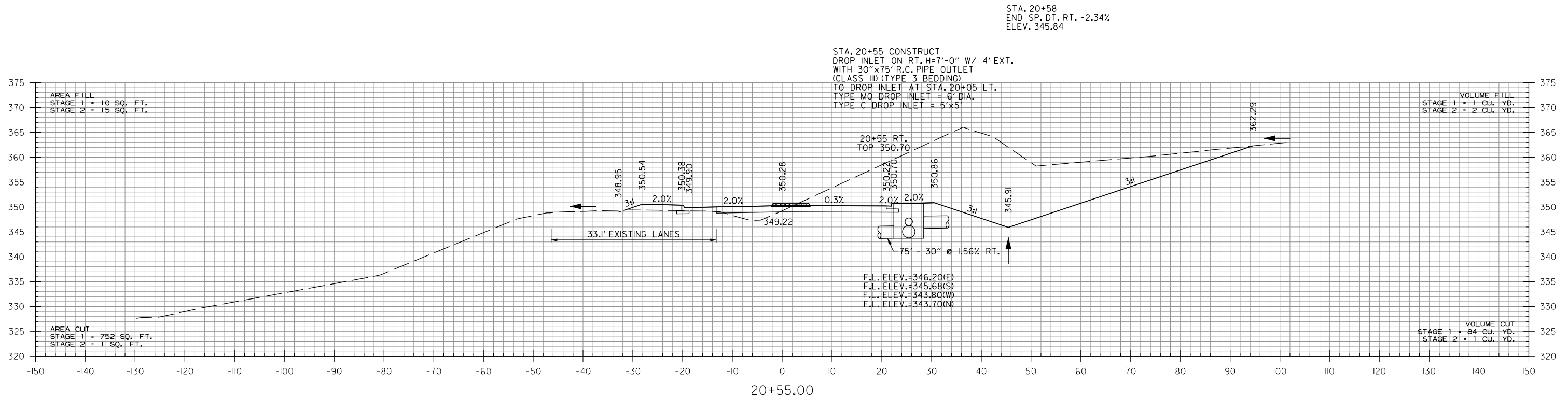
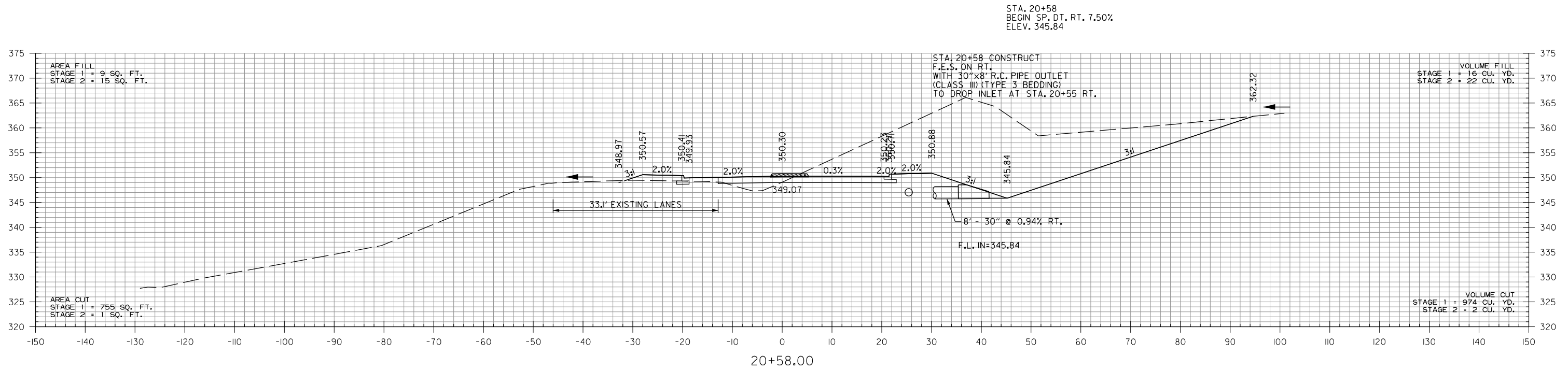
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	59	80
CROSS SECTIONS						



HWY. 64
 STA. 20+23 TO STA. 20+50

2/20/2024 9:46:16 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan L\Drawings\080634.CX.ALL.dgn
 REVISED DATE:

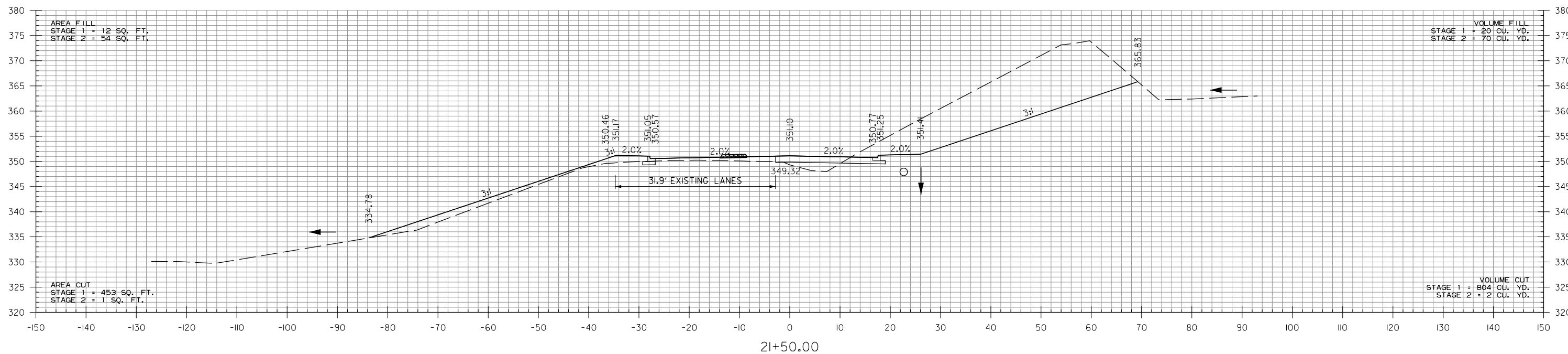
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	60	80
CROSS SECTIONS						



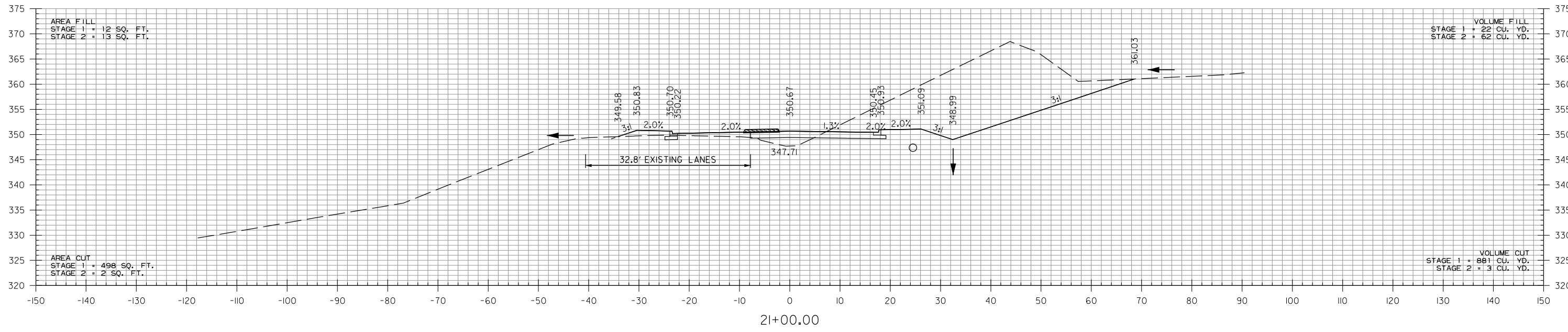
HWY. 64
STA. 20+55 TO STA. 20+58

WBCollinsway 2/20/2024 9:46:17 AM
 WORKSPACE: AHTD L:\2017\07654 - ARDOT 080634 Hwy64-Hogon L:\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	61	80
CROSS SECTIONS						



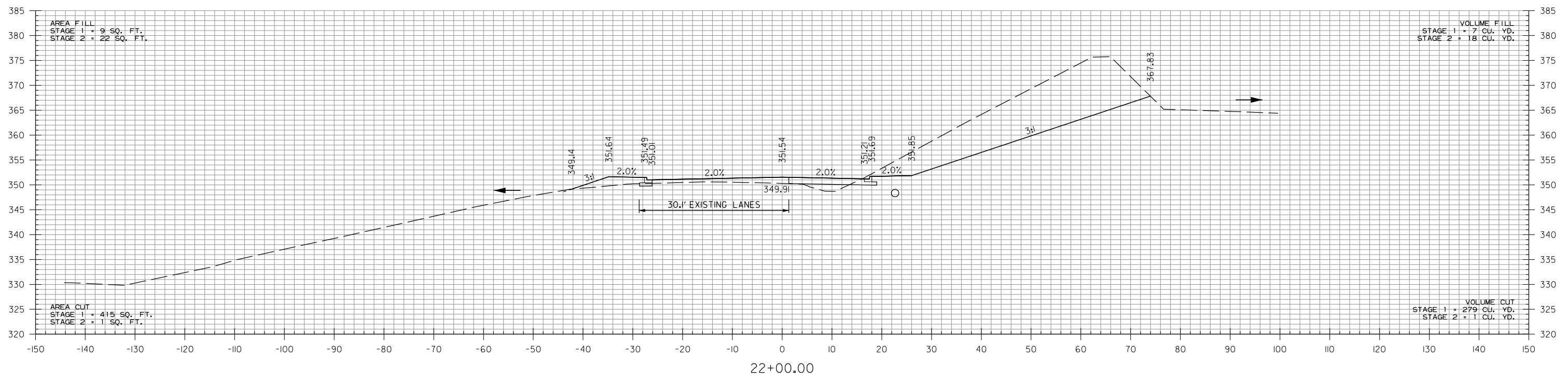
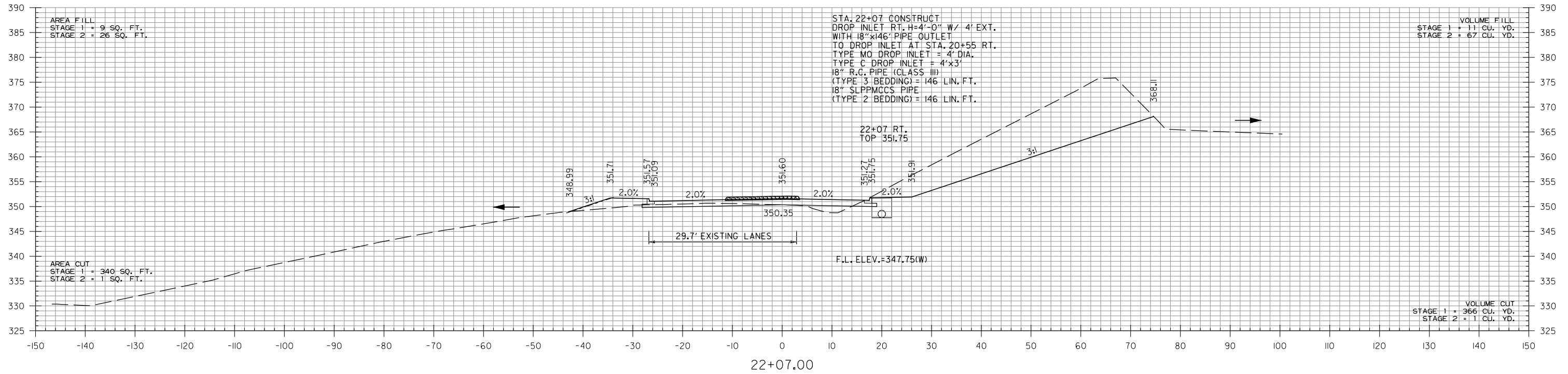
STA. 21+30
 END SP. DT. RT. 7.50%
 ELEV. 351.24



HWY. 64
 STA. 21+00 TO STA. 21+50

2/20/2024 9:46:17 AM
 WBCollinsy
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan Ln\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

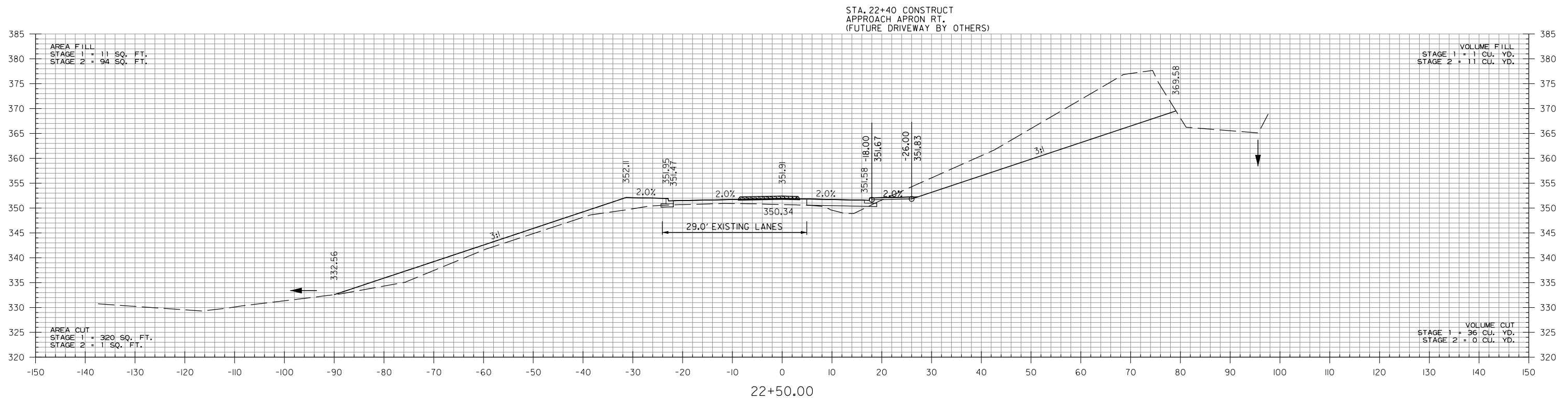
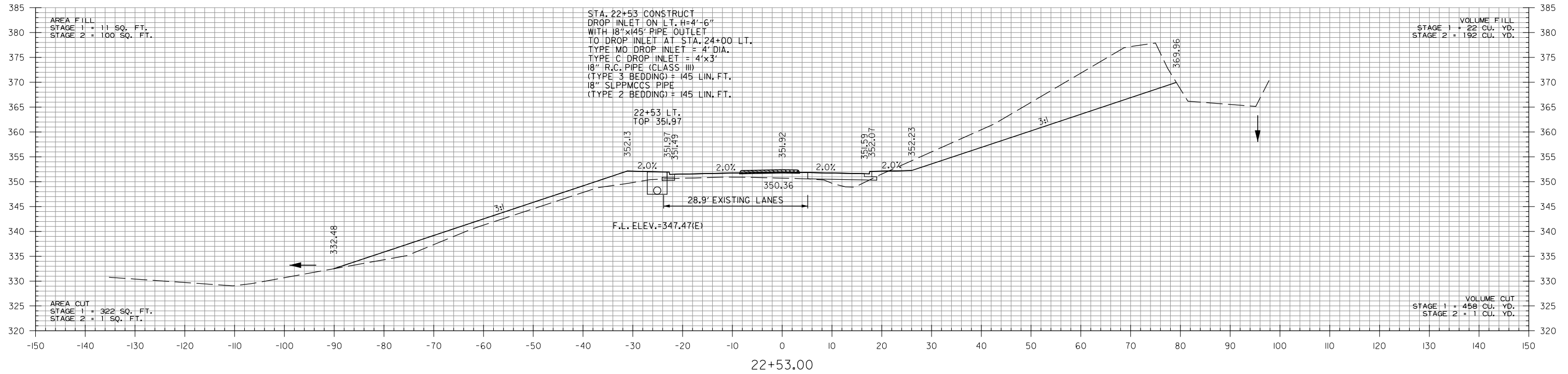
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	62	80
CROSS SECTIONS						



HWY. 64
 STA. 22+00 TO STA. 22+07

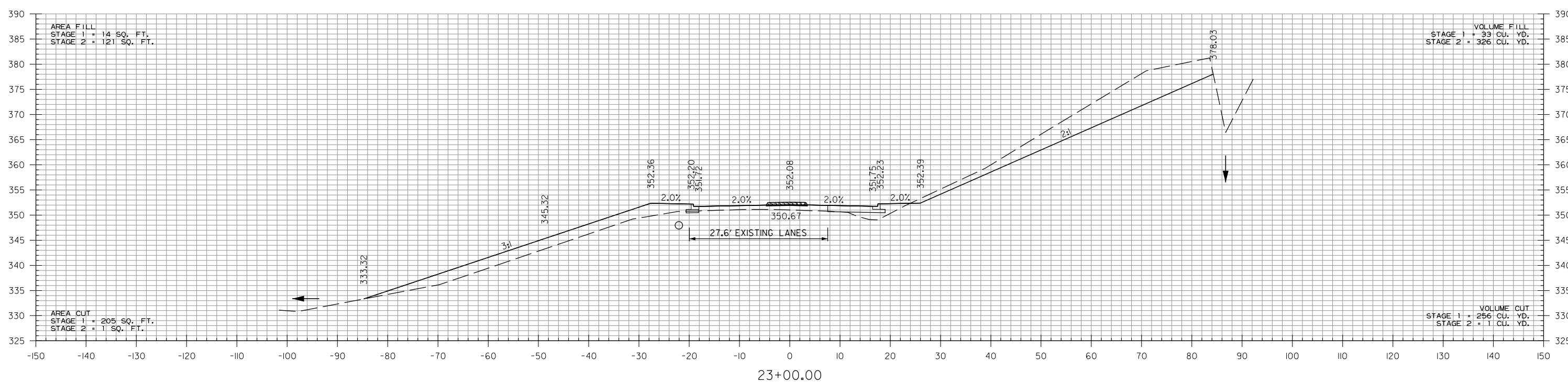
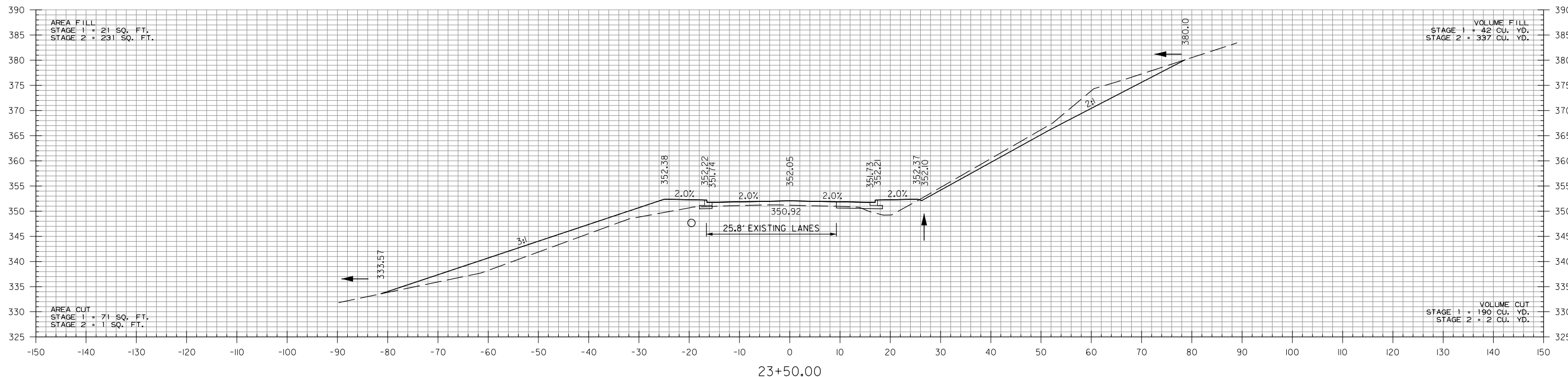
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 WORKSPACE: AHTD
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 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	63	80
CROSS SECTIONS						



HWY. 64
STA. 22+50 TO STA. 22+53

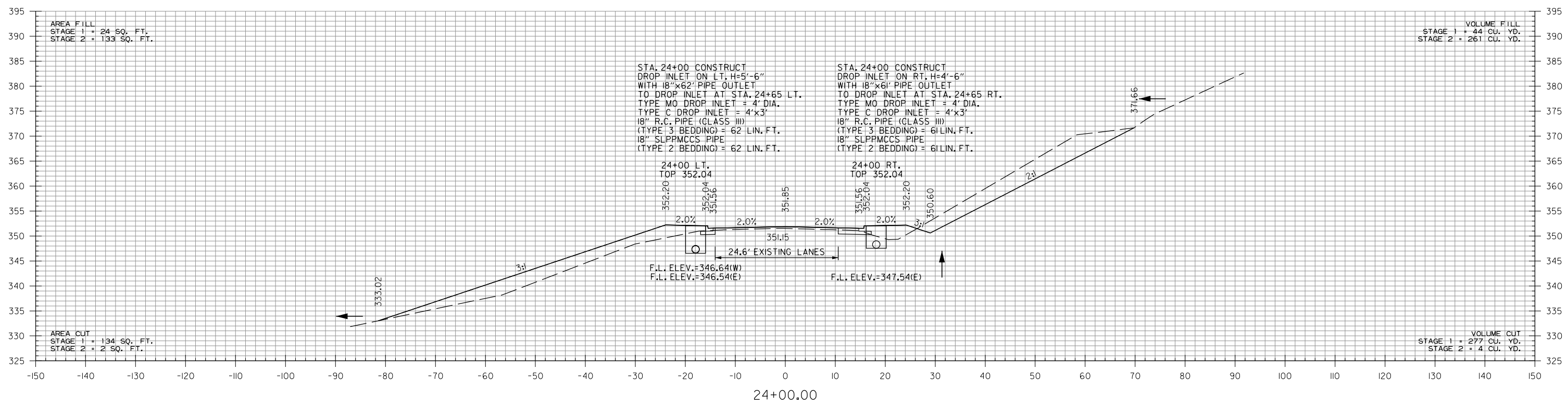
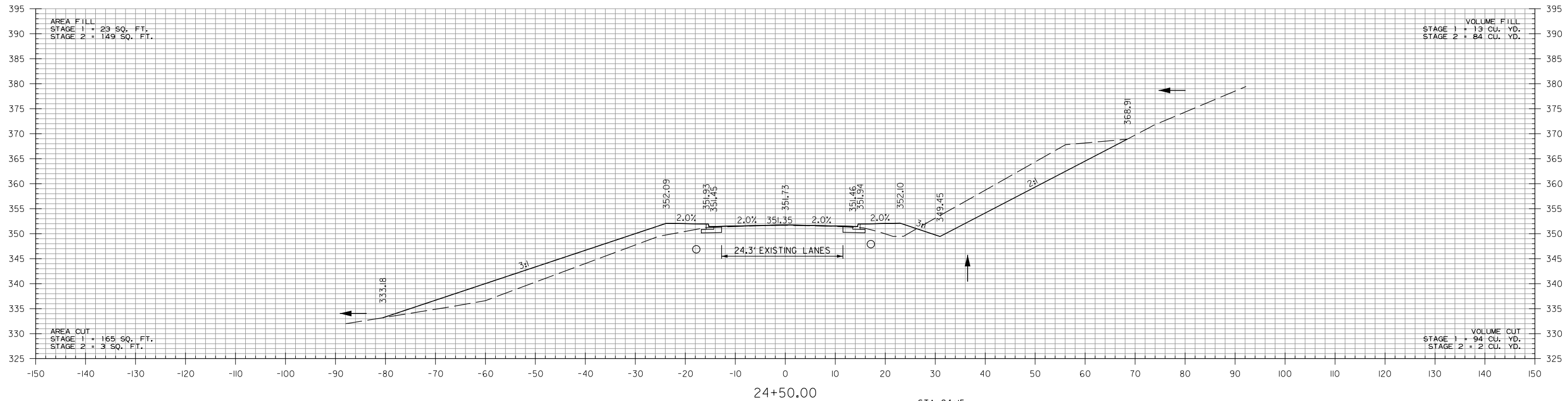
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	64	80
CROSS SECTIONS						



HWY. 64
 STA. 23+00 TO STA. 23+50

2/20/2024 9:46:17 AM
 WBCollinsy
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogon L\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

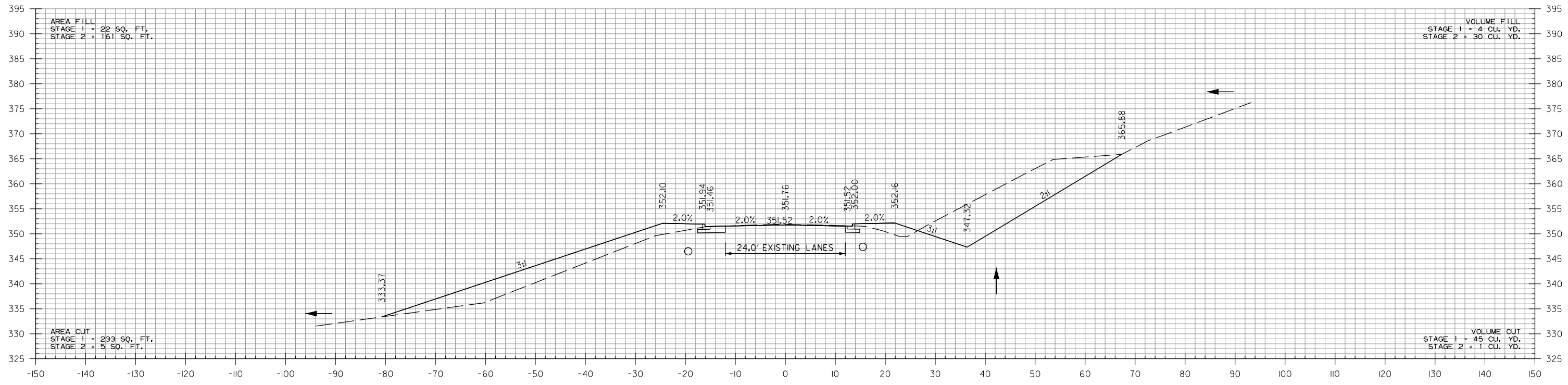
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	65	80
CROSS SECTIONS						



HWY. 64
 STA. 24+00 TO STA. 24+50

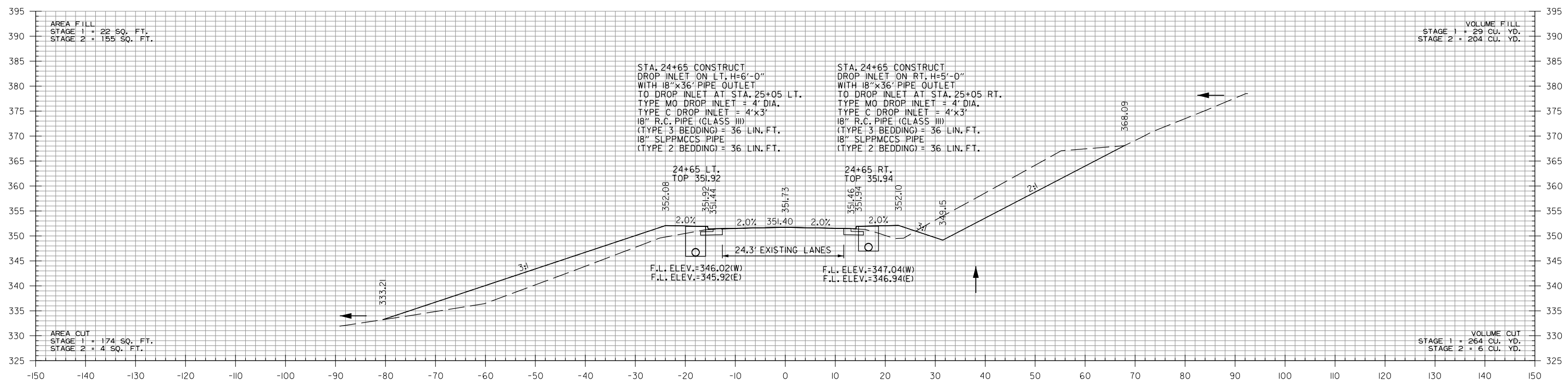
WBCollinsway 2/20/2024 9:46:17 AM
 WORKSPACE: AHTD L:\2021\7017654 - ARDOT 080634 Hwy64-Hogan Ln\Drawings\080634_CX_ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	66	80
CROSS SECTIONS						



STA. 24+85
 BEGIN SP. DT. RT. -9.50%
 ELEV. 348.75

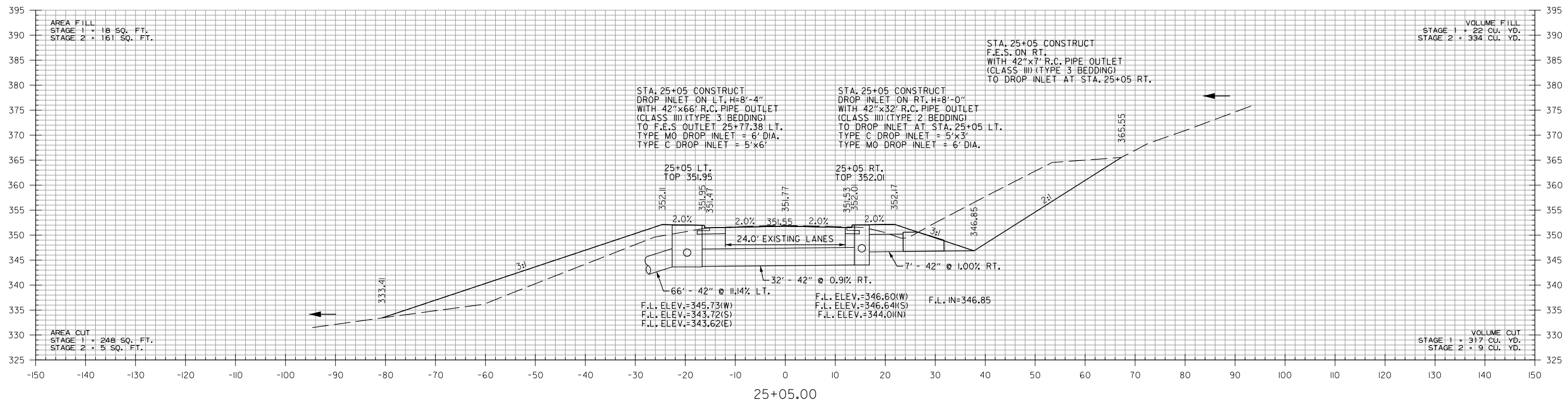
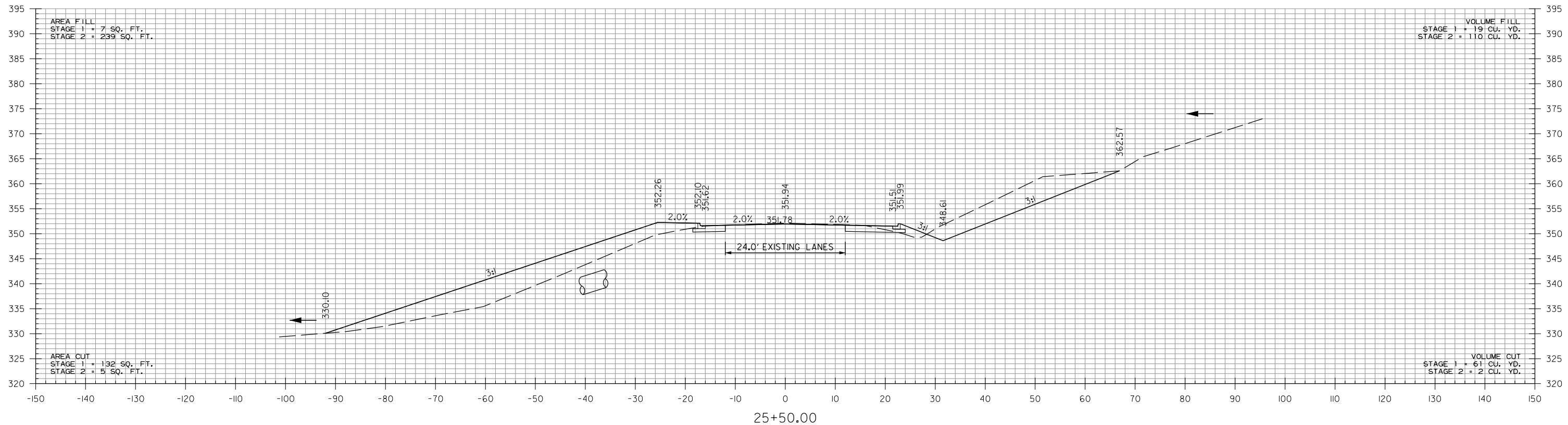
STA. 24+85
 END SP. DT. RT. -2.00%
 ELEV. 348.75



HWY. 64
 STA. 24+65 TO STA. 25+00

WBCollinsway 2/20/2024 9:46:17 AM
 WORKSPACE: AHTD L:\2024\17017654 - ARDOT 080634 Hwy64-Hogan L:\Drawings\080634_CX_ALL.dgn
 REVISED DATE:

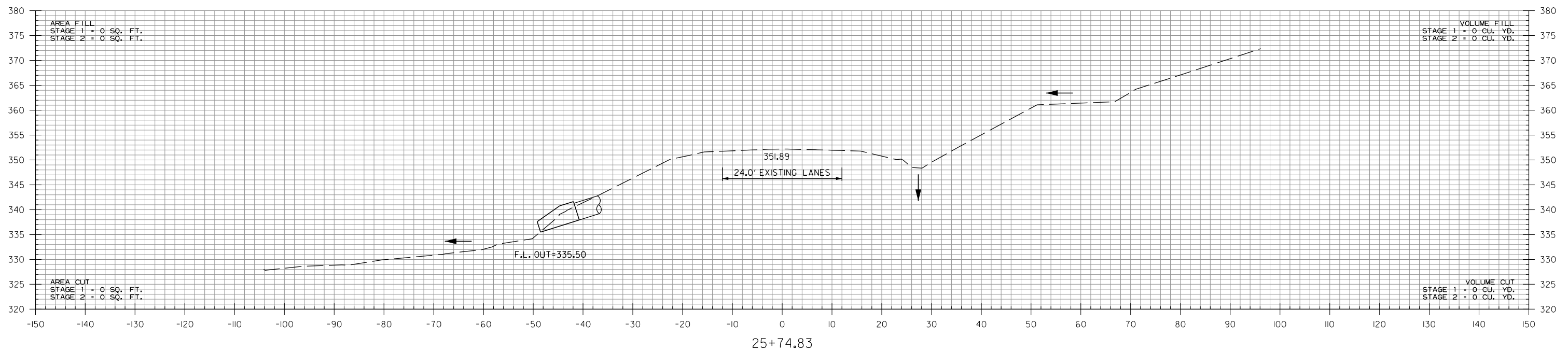
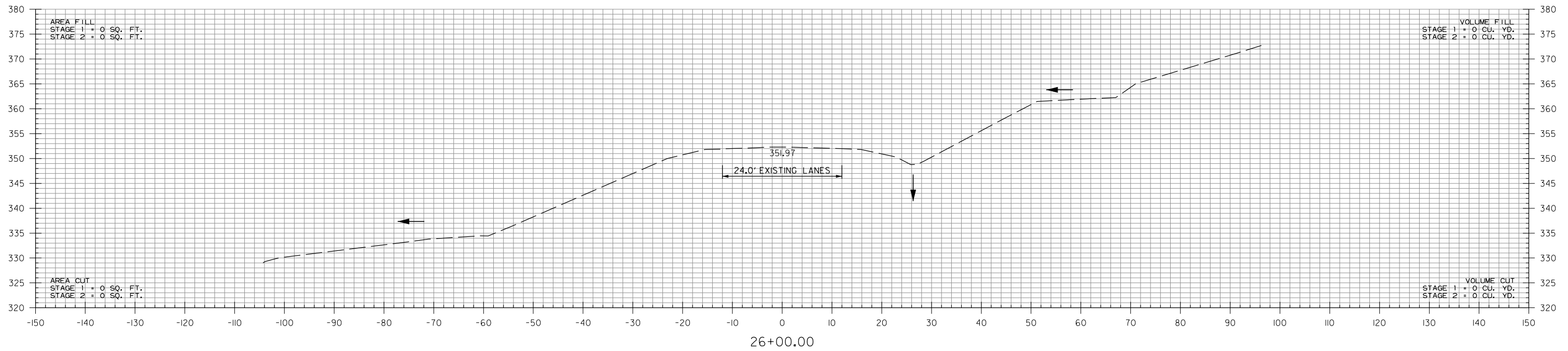
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	67	80
CROSS SECTIONS						



HWY. 64
 STA. 25+05 TO STA. 25+50

2/20/2024 9:46:17 AM
 WBCollinsway
 WORKSPACE: AHTD
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 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	68	80
CROSS SECTIONS						



STA. 25+50.00 BEGIN VERTICAL TRANSITION
STA. 25+50.00 END JOB 080634

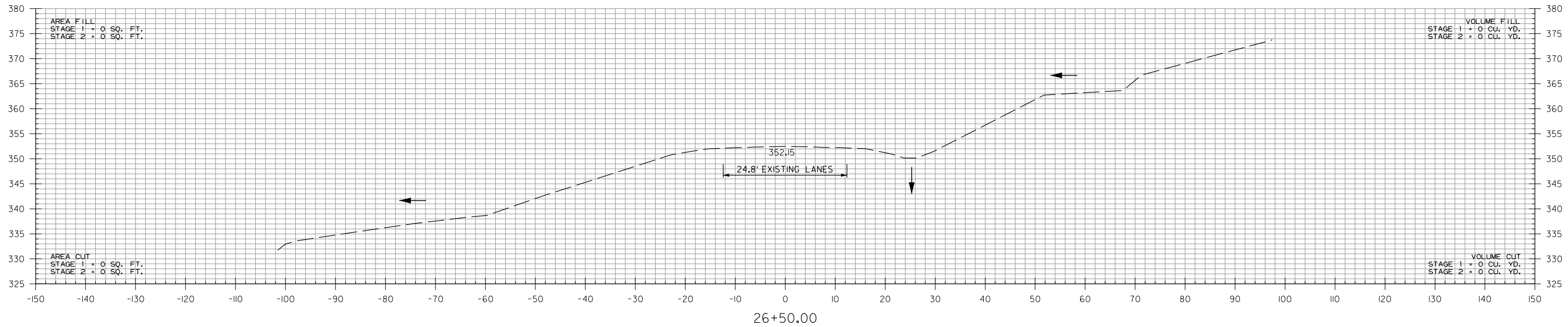
STA. 25+60
END SP. DT. RT. 3.91%
ELEV. 349.00

HWY. 64
STA. 25+75 TO STA. 26+00

2/20/2024 9:46:18 AM
 WORKSPACE: AHTD
 L:\2024\17017654 - ARDOT 080634 Hwy64-Hogon L\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	69	80
CROSS SECTIONS						

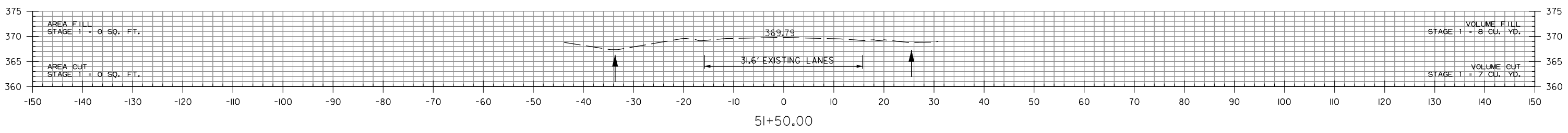
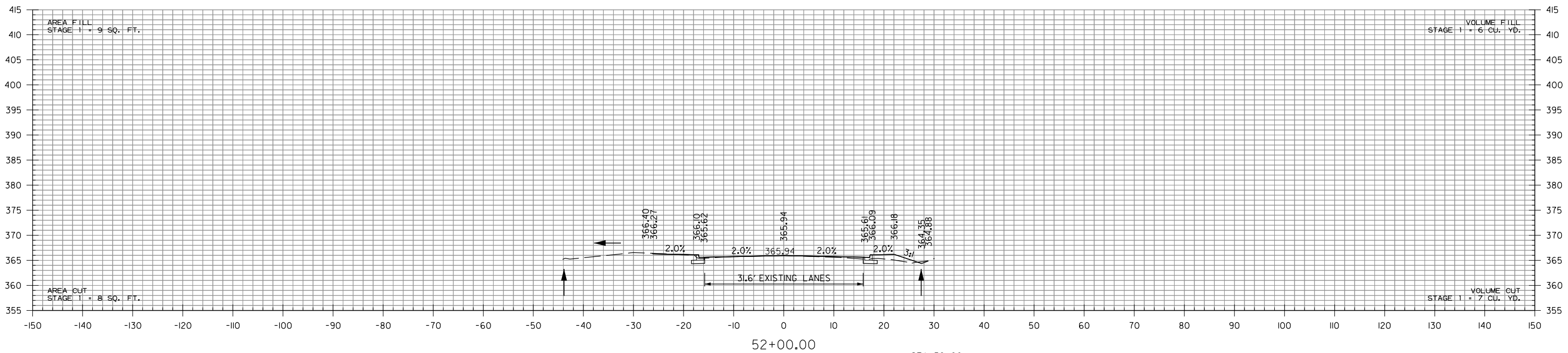
STA. 26+50.00 END VERTICAL TRANSITION



HWY. 64
STA. 26+50 TO STA. 26+50

2/20/2024 9:46:18 AM
WORKSPACE: AHTD
L:\2017\07654 - ARDOT 080634 Hwy64-Hogon L\Drawings\080634_CX.ALL.dgn
REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	70	80
CROSS SECTIONS						



HOGAN LN.
STA. 51+50 TO STA. 52+00

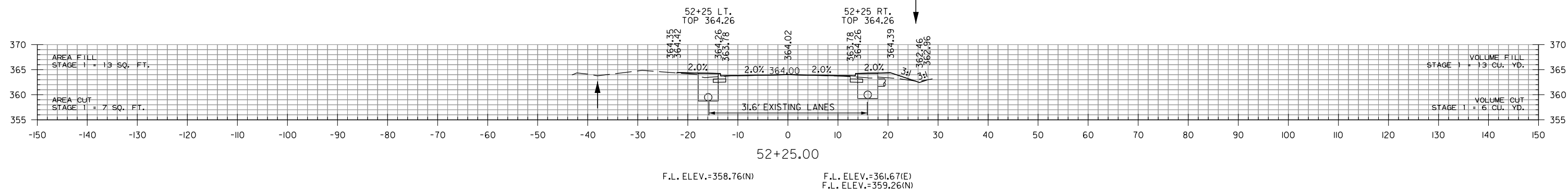
WBCollinsway 2/20/2024 9:46:18 AM
 WORKSPACE: AHTD
 L:\2021\17017654 - ARDOT 080634 Hwy64-Hogan Ln\Drawings\080634_CX_ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	71	80
CROSS SECTIONS						

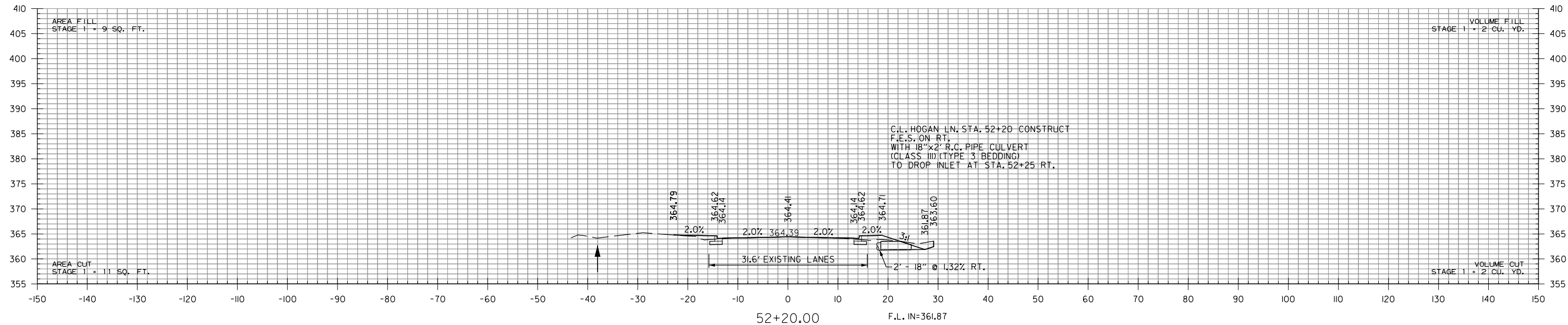
STA. 52+35
END SP. DT. RT. 11.87%
ELEV. 363.65

C.L. HOGAN LN. STA. 52+25 CONSTRUCT
DROP INLET ON LT. H=5'-6" W/ 4' EXT.
WITH 18"x16" PIPE OUTLET
TO DROP INLET AT STA. 53+90 LT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x3'
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 161 LIN. FT.
18" SLPPMCCS PIPE
(TYPE 2 BEDDING) = 161 LIN. FT.

C.L. HOGAN LN. STA. 52+25 CONSTRUCT
DROP INLET ON RT. H=5'-0" W/ 4' EXT.
WITH 18"x12" PIPE OUTLET
TO DROP INLET AT STA. 53+50 RT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x3'
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 122 LIN. FT.
18" SLPPMCCS PIPE
(TYPE 2 BEDDING) = 122 LIN. FT.



STA. 52+20
BEGIN SP. DT. RT. 11.87%
ELEV. 361.87

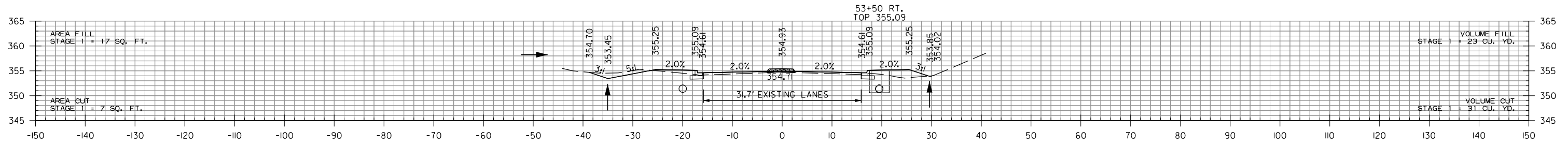


STA. 52+20
END SP. DT. RT. -12.40%
ELEV. 361.87

HOGAN LN.
STA. 52+20 TO STA. 52+25

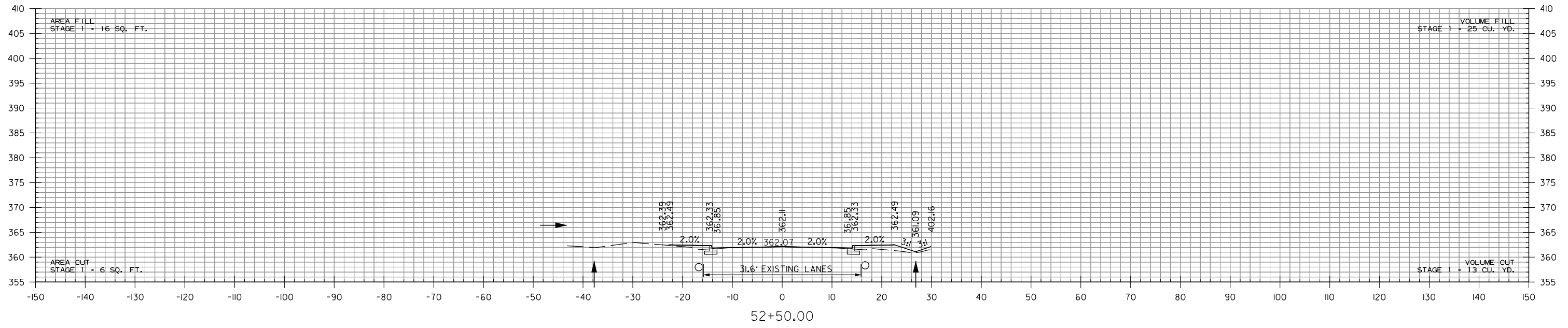
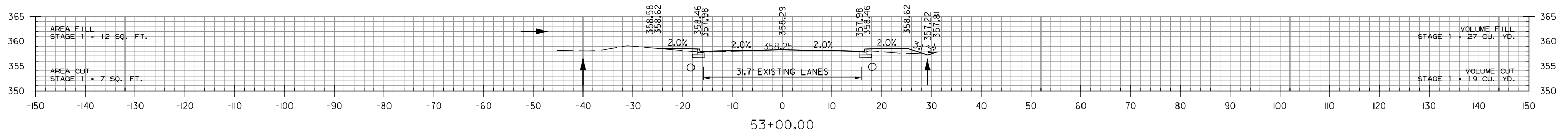
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	72	80
CROSS SECTIONS						

C.L. HOGAN LN. STA. 53+50 CONSTRUCT
 DROP INLET ON RT. H=4'-6"
 WITH 18"x102' PIPE OUTLET
 TO DROP INLET AT STA. 54+55 RT.
 TYPE MO DROP INLET = 4' DIA.
 TYPE C DROP INLET = 4'x3'
 18" R.C. PIPE (CLASS III)
 (TYPE 3 BEDDING) = 102 LIN. FT.
 18" SLPPMCCS PIPE
 (TYPE 2 BEDDING) = 102 LIN. FT.



53+50.00 F.L. ELEV.=350.69(S)
 F.L. ELEV.=350.59(N)

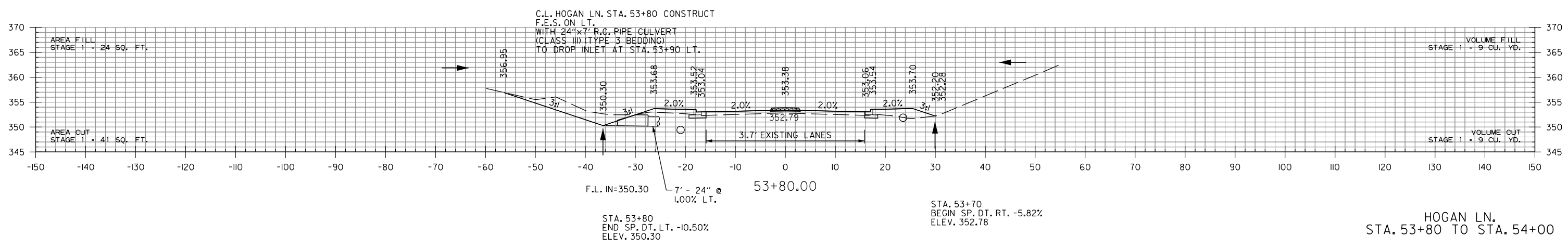
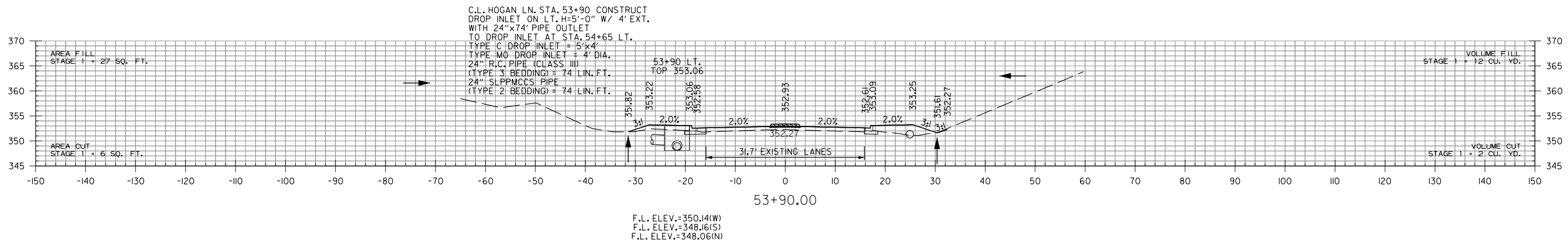
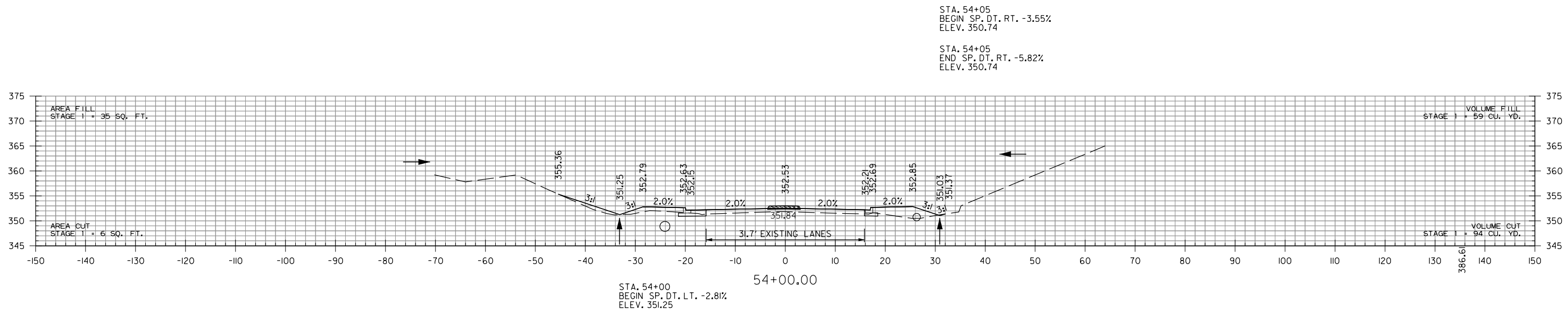
STA. 53+20
 BEGIN SP. DT. LT. -10.50%
 ELEV. 356.60



HOGAN LN.
 STA. 52+50 TO STA. 53+50

2/20/2024 9:46:18 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan Ln\Drawings\080634_CX.ALL.dgn
 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	73	80
CROSS SECTIONS						



HOGAN LN.
STA. 53+80 TO STA. 54+00

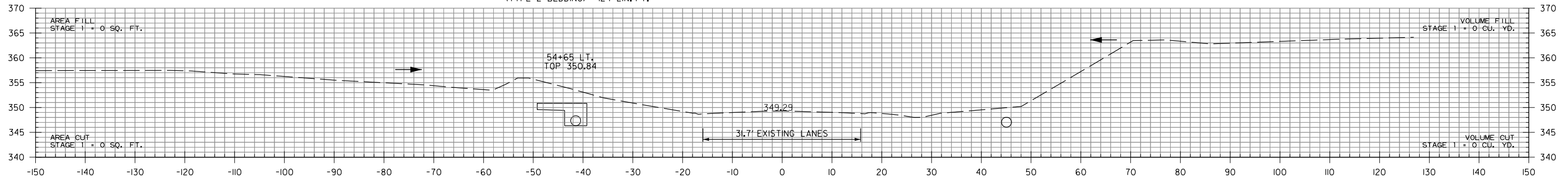
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 WORKSPACE: AHTD
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 REVISED DATE:

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	74	80
CROSS SECTIONS						

STA. 54+85.41
END SP. DT. LT. 1.40%
ELEV. 349.96

C.L. HOGAN LN. STA. 54+65 CONSTRUCT
DROP INLET ON RT. H=4'-6"
WITH BACK OPENING
AND 24"x124' PIPE OUTLET
TO JUNCTION BOX AT
C.L. HWY. 64 STA. 17+10 RT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x4'
24" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 124 LIN. FT.
24" SLPPMCCS PIPE
(TYPE 2 BEDDING) = 124 LIN. FT.

STA. 54+68.89
END SP. DT. RT. -3.55%
ELEV. 348.47



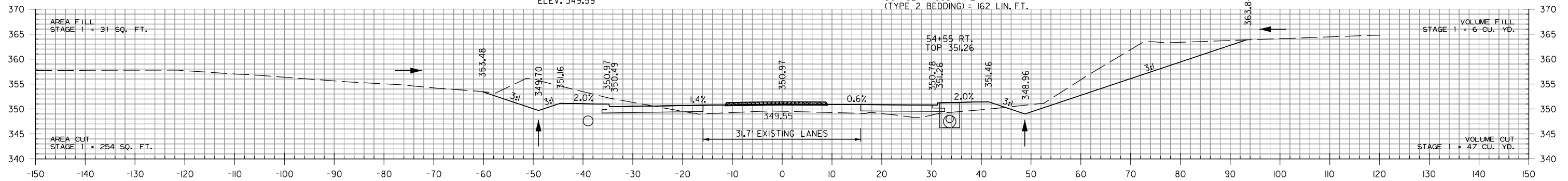
F.L. ELEV.=349.59(BACK OPENING)
F.L. ELEV.=346.44(S)
F.L. ELEV.=346.34(NW)

54+65.00

C.L. HOGAN LN. STA. 54+55 CONSTRUCT
DROP INLET ON RT. H=5'-0" W/ 4' EXT.
WITH 30"x162' PIPE OUTLET
TO DROP INLET AT
C.L. HWY. 64 STA. 20+55 RT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x4'
30" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 162 LIN. FT.
30" SLPPMCCS PIPE
(TYPE 2 BEDDING) = 162 LIN. FT.

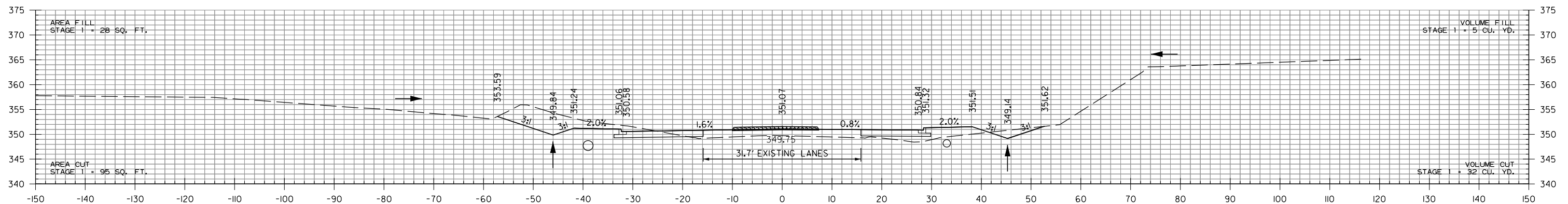
STA. 54+59
BEGIN SP. DT. LT. 1.40%
ELEV. 349.59

STA. 54+59
END SP. DT. LT. -2.81%
ELEV. 349.59



54+55.00

F.L. ELEV.=347.26(S)
F.L. ELEV.=346.26(NE)

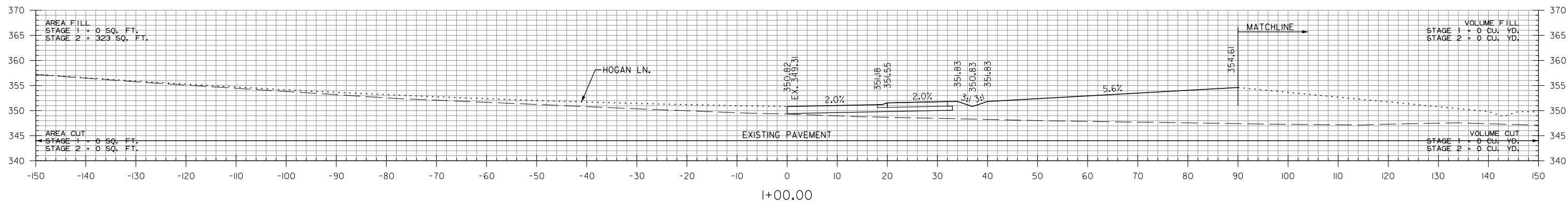
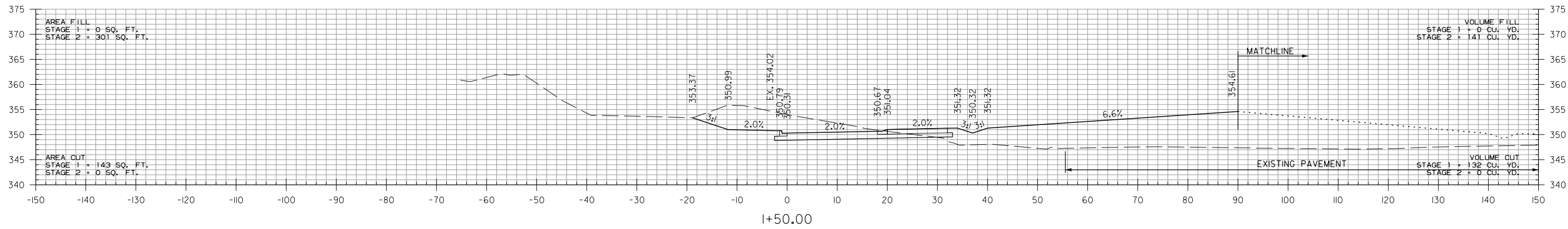
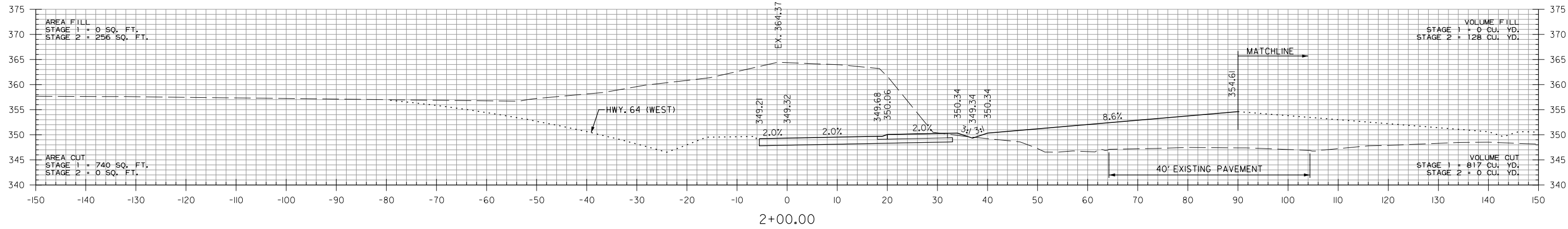


54+50.00

HOGAN LN.
STA. 54+50 TO STA. 54+65

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	75	80
CROSS SECTIONS						

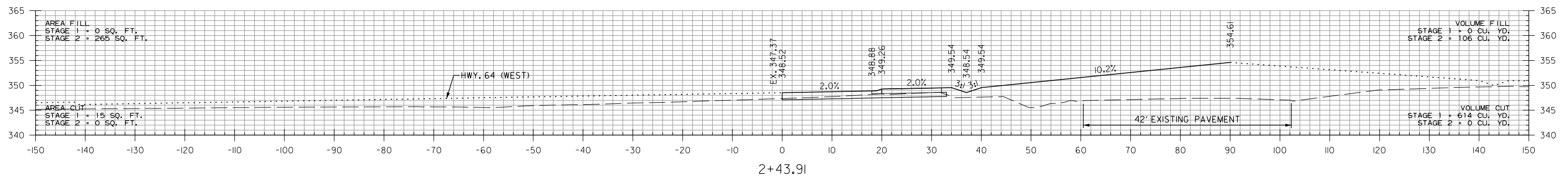
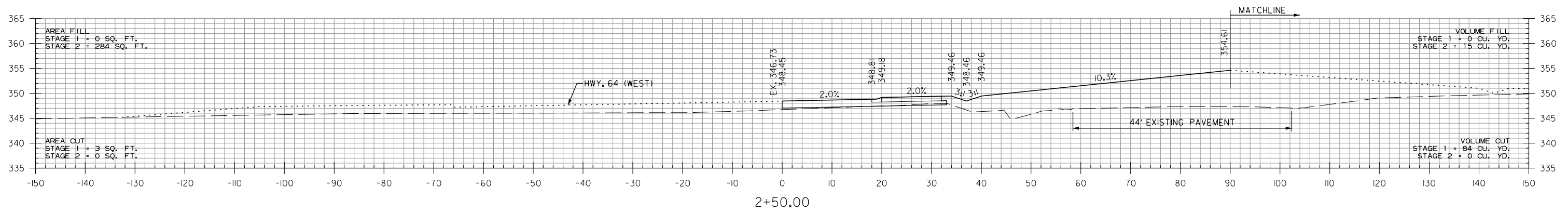
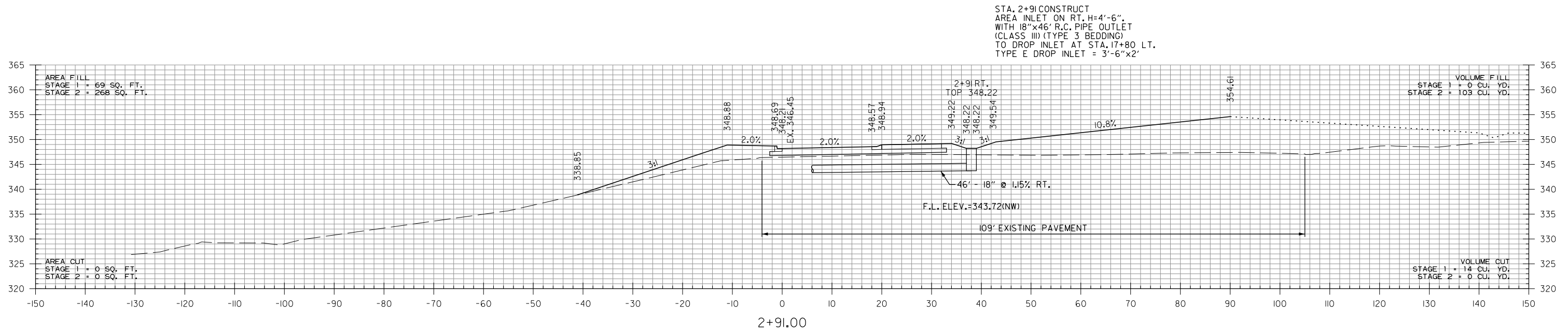
NOTE:
 STAGE 2 EARTHWORK VOLUMES (INTERIOR OF CIRCULATORY ROADWAY)
 ARE FACTORED BY 0.25 OF THE CALCULATED VALUE (AREA x LENGTH)
 TO ACCOUNT FOR THE PIE/WEDGE SHAPE BETWEEN CROSS SECTIONS.



CIRCULATORY ROADWAY
 STA. 1+00 TO STA. 2+00

2/20/2024 9:46:25 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan Ln\Drawings\080634_CX_CIRCULATORY ROADWAY.dgn
 REVISED DATE:

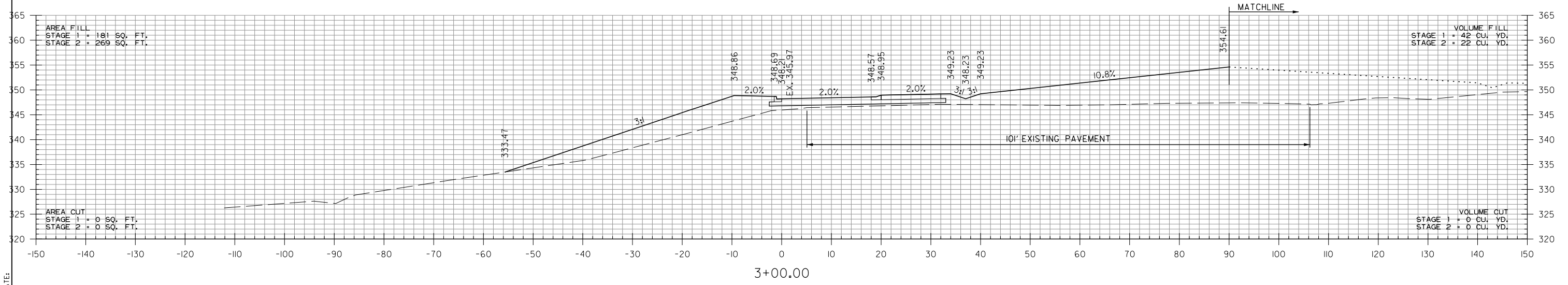
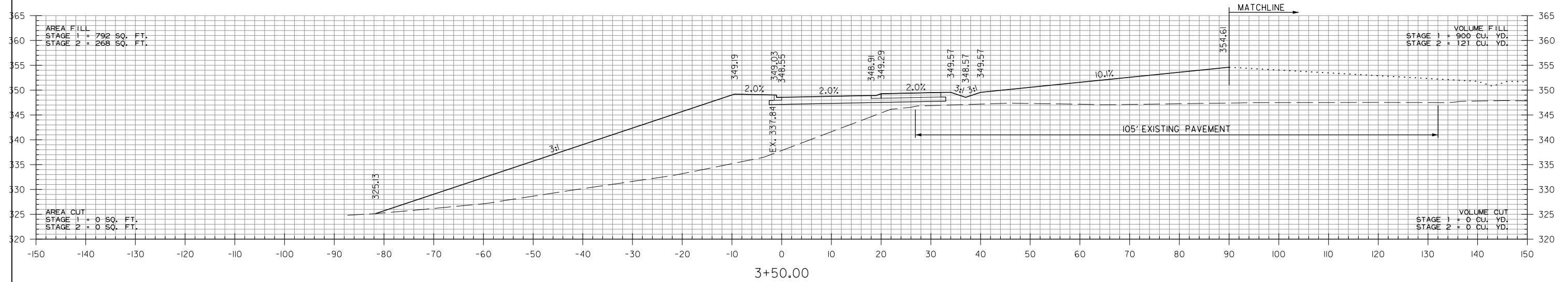
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	76	80
CROSS SECTIONS						



CIRCULATORY ROADWAY
 STA. 2+44 TO STA. 2+91

2/20/2024 9:46:25 AM
 W:\Cadd\workspaces\AHTD
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 REVISION DATE:

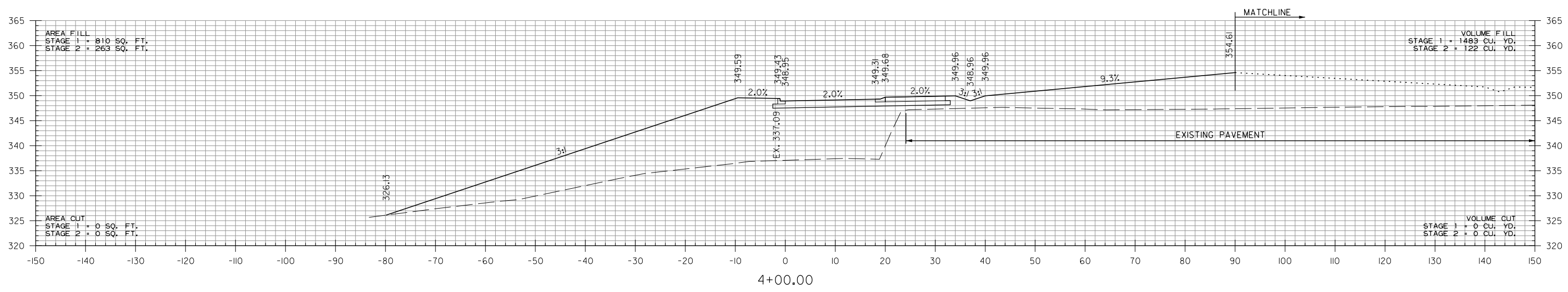
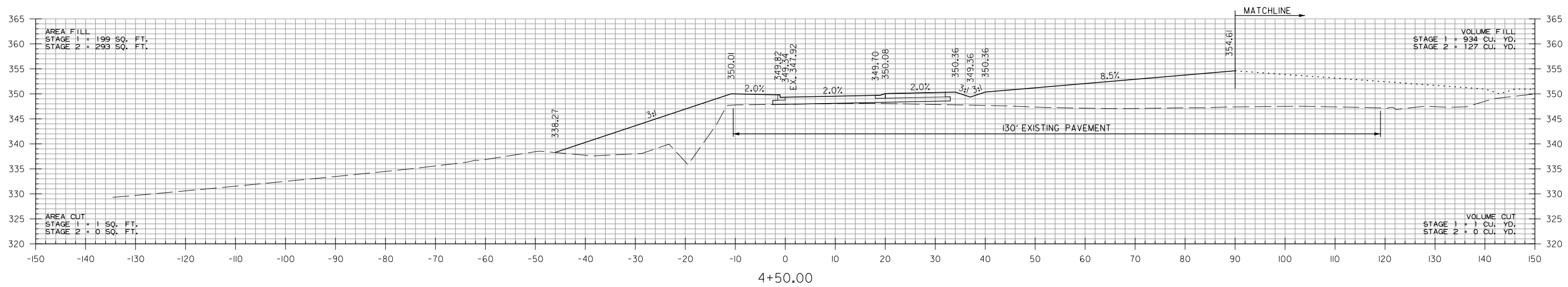
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	77	80
CROSS SECTIONS						



CIRCULATORY ROADWAY
 STA. 3+00 TO STA. 3+50

2/20/2024 9:46:25 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogon L\Drawings\080634_CX_CIRCULATORY ROADWAY.dgn
 REVISED DATE:

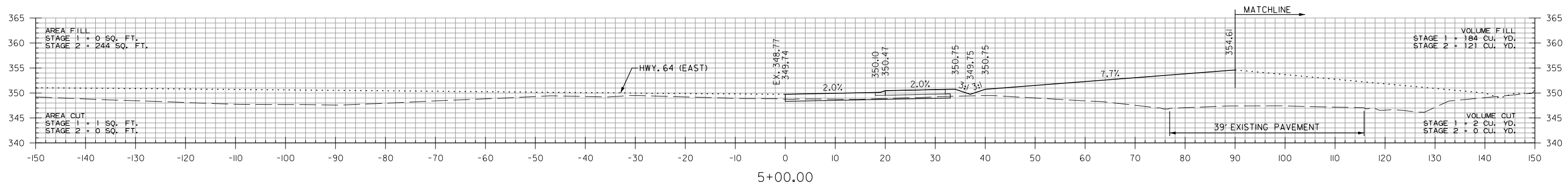
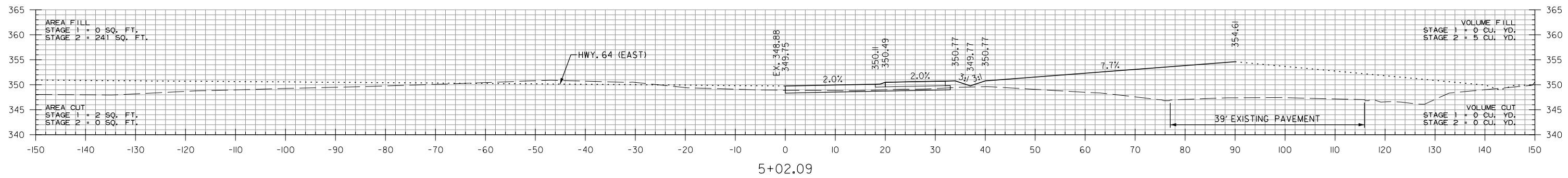
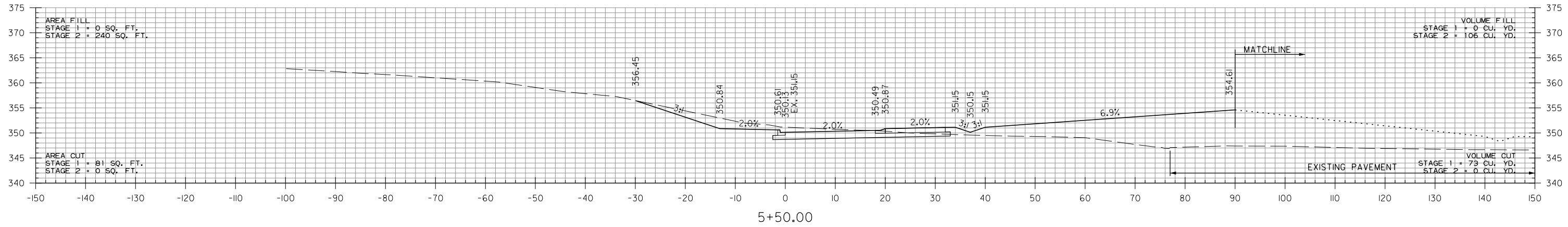
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	78	80
CROSS SECTIONS						



CIRCULATORY ROADWAY
 STA. 4+00 TO STA. 4+50

2/20/2024 9:46:25 AM
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 WORKSPACE: AHTD
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 REVISED DATE:

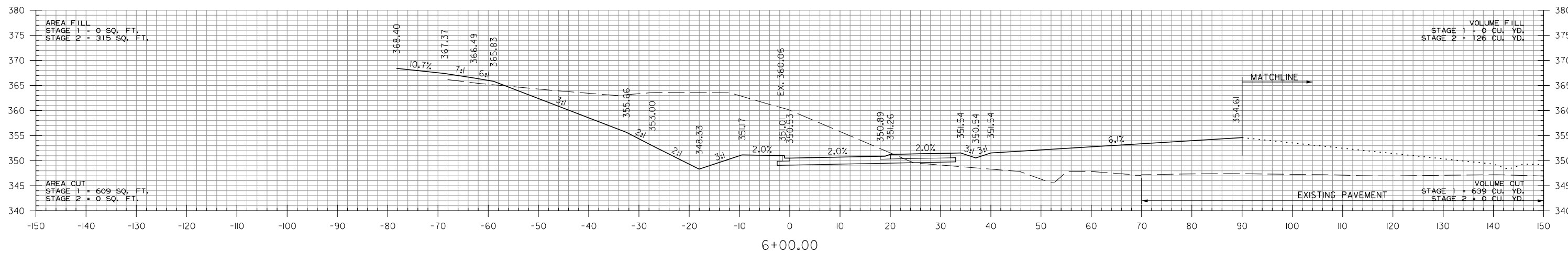
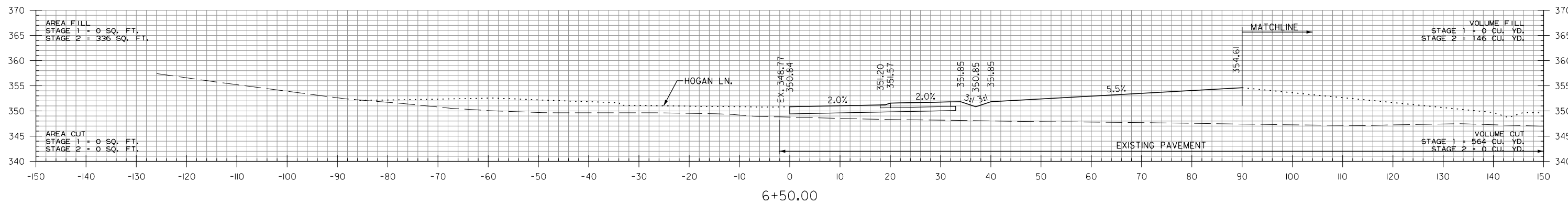
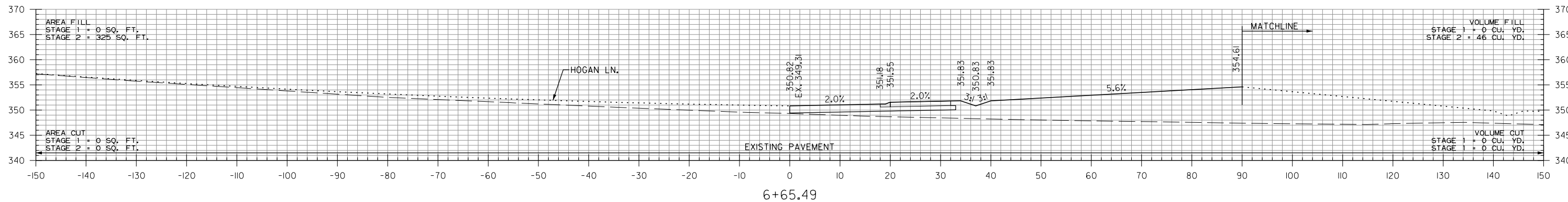
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	79	80
CROSS SECTIONS						



CIRCULATORY ROADWAY
 STA. 5+00 TO STA. 5+50

2/20/2024 9:46:25 AM
 WORKSPACE: AHTD
 L:\2017\07654 - ARDOT 080634 Hwy64-Hogan Ln Drawings\080634_CX.CIRCULATORY ROADWAY.dgn
 REVISION DATE:

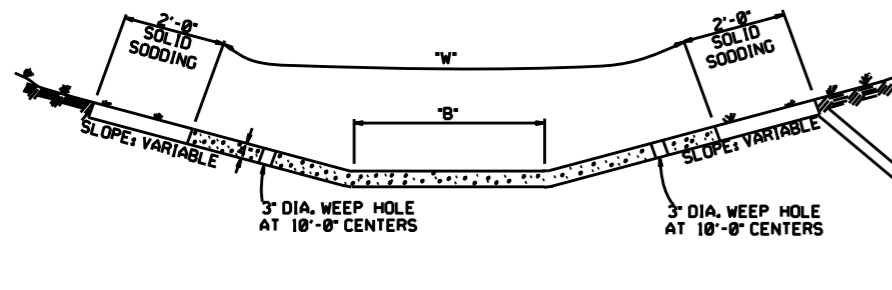
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	080634	80	80
CROSS SECTIONS						



CIRCULATORY ROADWAY
STA. 6+00 TO STA. 6+65

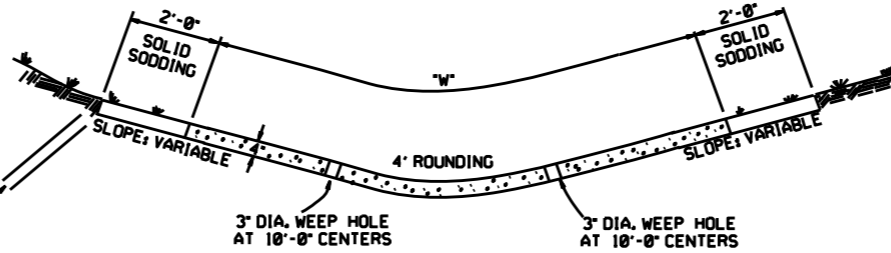
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 WORKSPACE: AHTD
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 REVISED DATE:

REFER TO TABULATION OF QUANTITIES FOR "W" & "B" DIMENSIONS



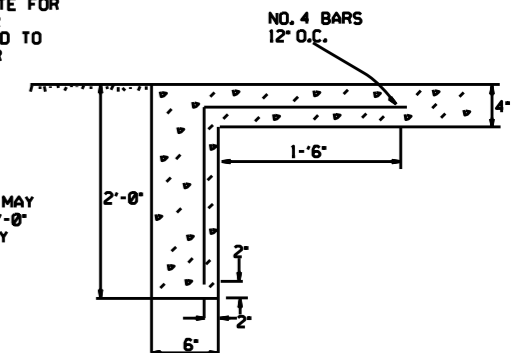
TYPE A

REFER TO TABULATION OF QUANTITIES FOR "W" DIMENSIONS



TYPE B

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



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

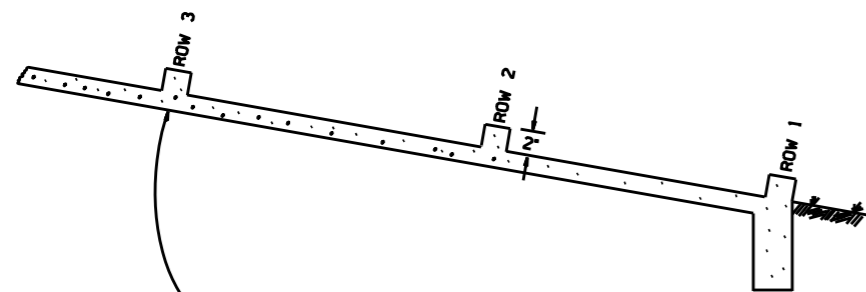
TOE WALL DETAIL FOR CONCRETE DITCH PAVING

GENERAL NOTES:

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

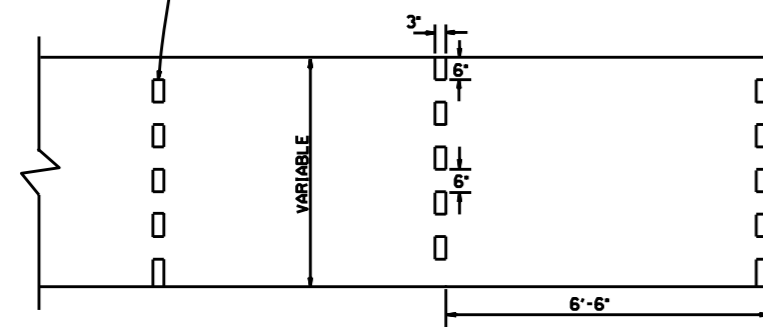
SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

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



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

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



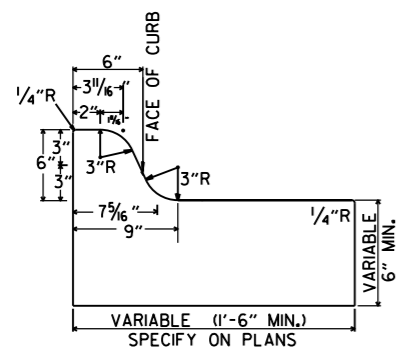
ENERGY DISSIPATORS (NO SCALE)

DATE	REVISION	DATE FILM'D
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-88	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	632-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	639-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED	
	TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72
	DATE	REVISION
		DATE FILM'D

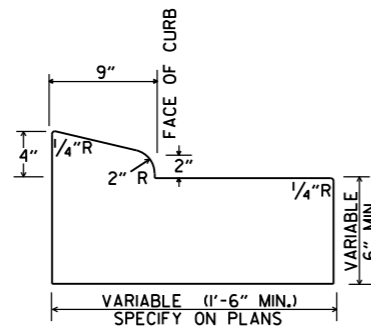
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

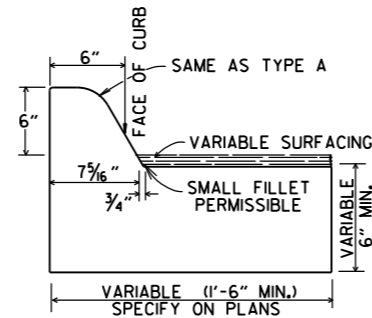
STANDARD DRAWING CDP-1



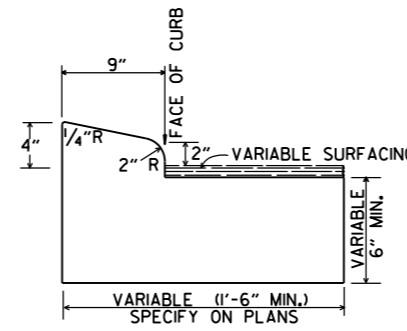
TYPE A



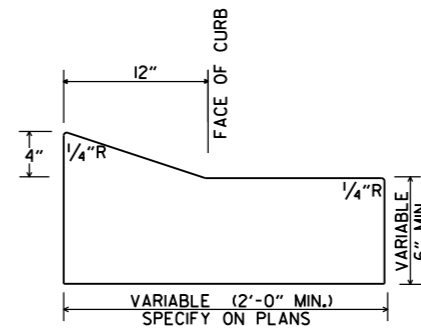
TYPE B-1



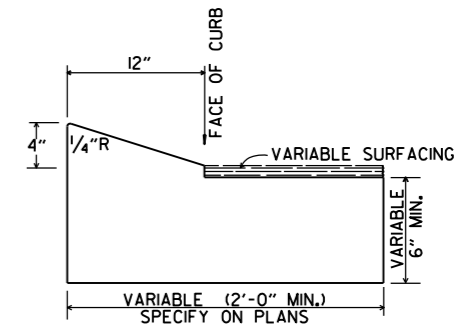
TYPE C



TYPE B-2

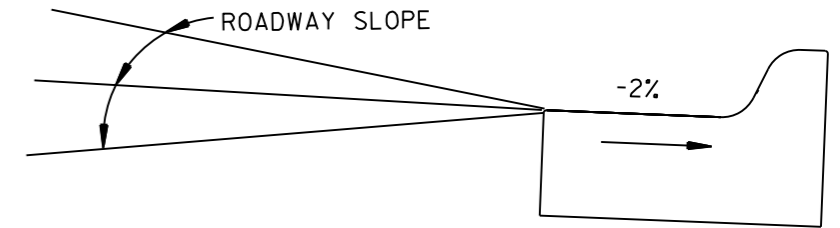


TYPE E-1

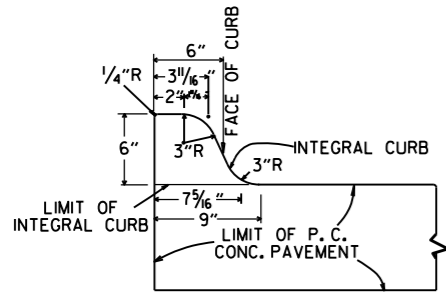


TYPE E-2

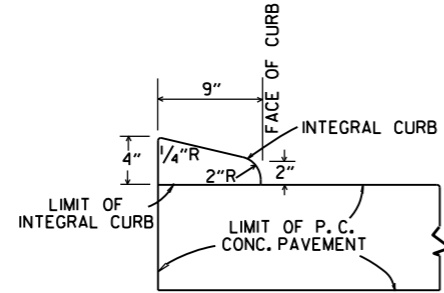
CONCRETE COMBINATION CURB AND GUTTER



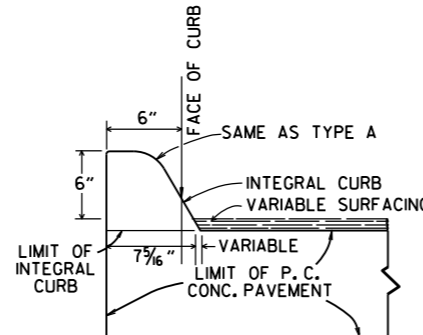
DETAIL OF GUTTER SLOPE
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



TYPE A

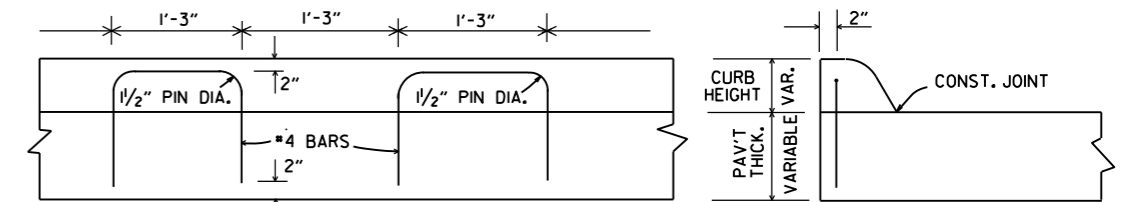


TYPE B



TYPE C

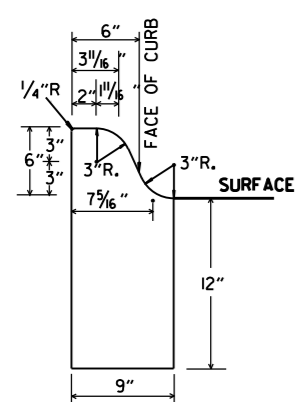
INTEGRAL CURB



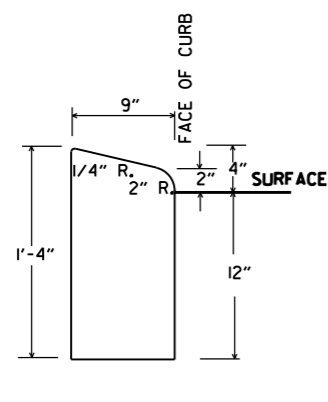
LONGITUDINAL SECTION

ELEVATION

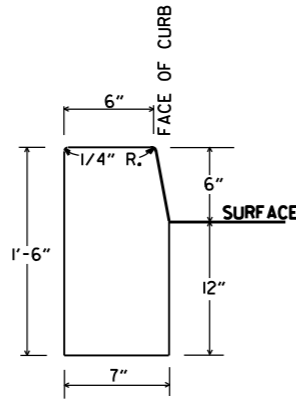
ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



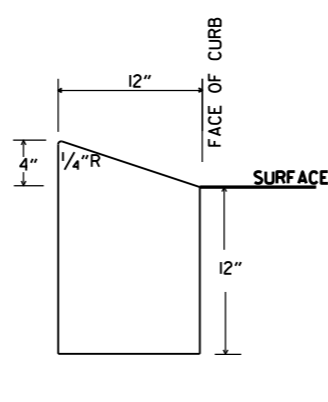
TYPE A



TYPE B

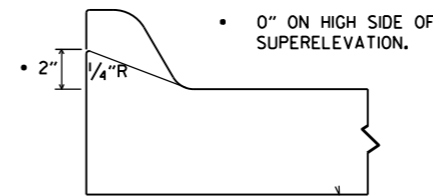


TYPE D



TYPE E

CONCRETE CURB



NOTE: USE MODIFIED CURB AS SPECIFIED ON STD. DR-1. COMPENSATION FOR MODIFIED CURB WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE TYPE OF CURB OR CURB AND GUTTER SPECIFIED.

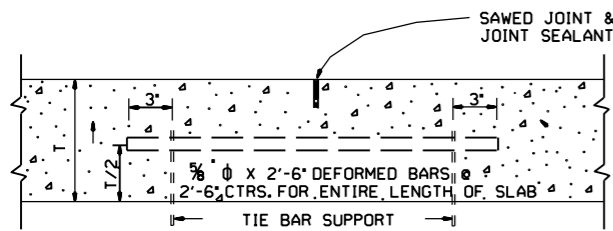
DETAILS OF MODIFIED CURB

DATE	REVISION	DATE FILMED
11-29-07	REVISED GUTTER SLOPE & MODIFIED CURB DETAILS	
11-10-05	ADDED DETAILS OF TYPE E CURBS	
11-16-01	REVISED CONCRETE CURB TYPE B	
11-18-98	REVISED MODIFIED CURB	
6-2-94	ADDED NOTE TO SPECIAL MODIFIED CURB	
8-5-93	CORRECTED GUTTER SLOPE	8-5-93
10-1-92	ADDED DETAILS OF GUTTER SLOPE	10-1-92
5-24-90	ADDED DETAILS OF MODIFIED CURB	5-24-90
11-30-89	VARIABLE DEPTH TYPE A & B 1	11-30-89
7-15-88	REVISED MODIFIED CURB	630-7-15-88
1-1-73	REVISED MODIFIED CURB	500-1-1-73
10-2-72	REVISED AND REDRAWN	512-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

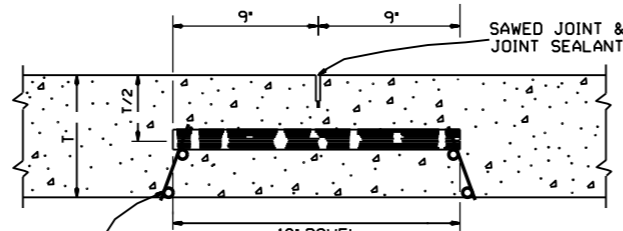
CURBING DETAILS

STANDARD DRAWING CG-1



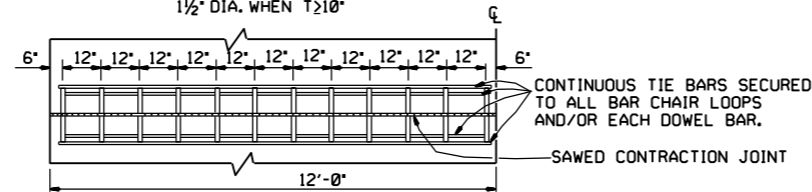
LONGITUDINAL JOINT

NOTE: THE TIE BAR SUPPORT SHOWN ABOVE MAY BE ELIMINATED IF OTHER APPROVED METHODS FOR PLACING AND SUPPORTING THE TIE BARS ARE PROVIDED.
TIE BARS SHALL BE 15' FROM TRANSVERSE JOINTS.



ROUND STEEL BAR DOWEL
1 1/4" DIA. WHEN T < 10"
1 1/2" DIA. WHEN T ≥ 10"

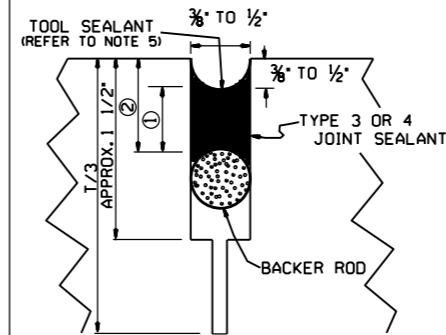
NOTE: EACH DOWEL TO BE COATED ACCORDING TO SECTION 502 OF THE STANDARD SPECIFICATIONS.



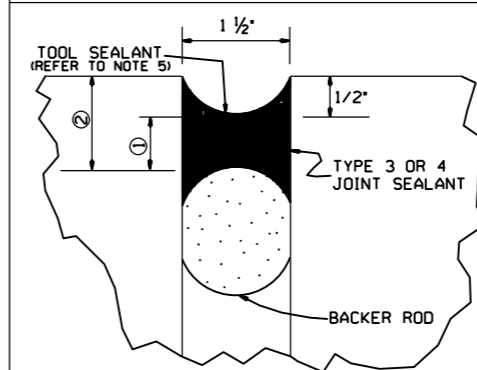
ONE-HALF 24' PAVEMENT
12 DOWELS
PLAN

NOTE: FOR 20' PAVEMENT USE 20 DOWELS @ 12' CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR 15' PAVEMENT USE 15 DOWELS @ 12' CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR 26' PAVEMENT USE 26 DOWELS @ 12' CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR PAVEMENT WIDTHS OTHER THAN THOSE SHOWN ABOVE, USE DOWELS AT 12' CTRS. WITH 6" MAX. SPACING FROM C.L. TO FIRST BAR. DISTANCE FROM EDGE OF SLAB TO FIRST BAR SHALL BE ADJUSTED TO MAINTAIN 12" DOWEL BAR SPACING

CONTRACTION JOINT DETAILS



DETAIL OF SAWED CONTRACTION JOINT



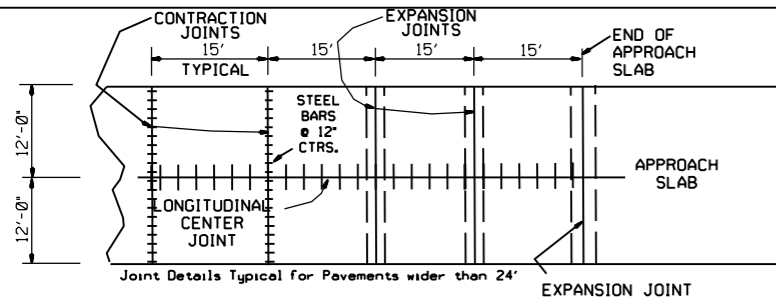
DETAIL OF EXPANSION JOINT

JOINT CONFIGURATION FOR TYPE 3 OR 4 JOINT SEALANT

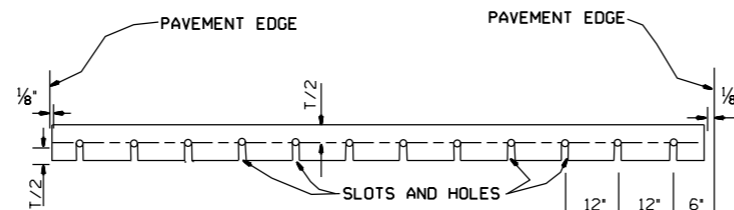
JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/4	3/8	1/2
3/8	1/4	1/2	1/2
1/2	1/4	5/8	1/2
5/8	3/8	3/4	3/4
3/4	3/8	7/8	3/4
1 1/2	3/4	2	1 1/4

JOINT CONFIGURATION FOR TYPE 5 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/4	3/8	3/4
3/8	3/8	1/2	1

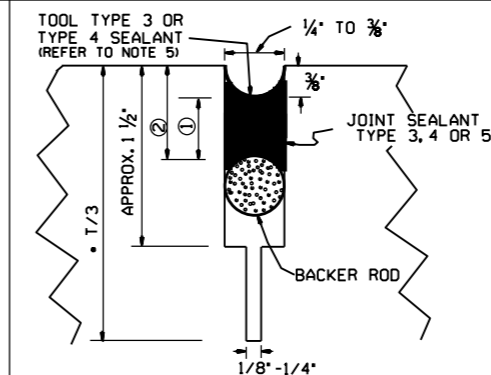


PLAN SHOWING EXPANSION JOINTS AT BRIDGE APPROACH SLABS



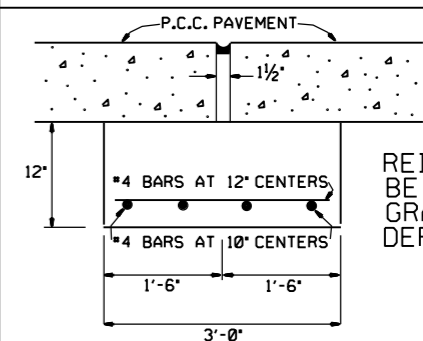
ELEVATION

NOTE: ALL DOWEL BARS SHALL CONFORM TO THE DETAILS FOR CONTRACTION JOINTS.



*NOTE: T/3 SAW CUT NOT REQUIRED FOR LONGITUDINAL CONSTRUCTION JOINT.

DETAIL OF SAWED LONGITUDINAL JOINT AND LONGITUDINAL CONSTRUCTION JOINT

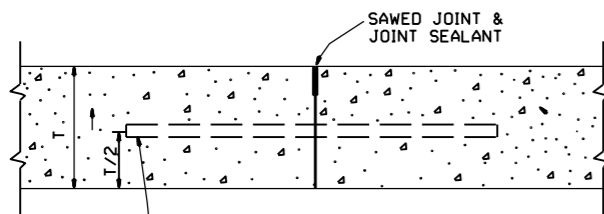
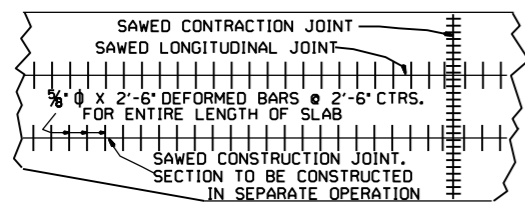


DETAIL OF JOINT SUPPORT FOR EXPANSION JOINTS

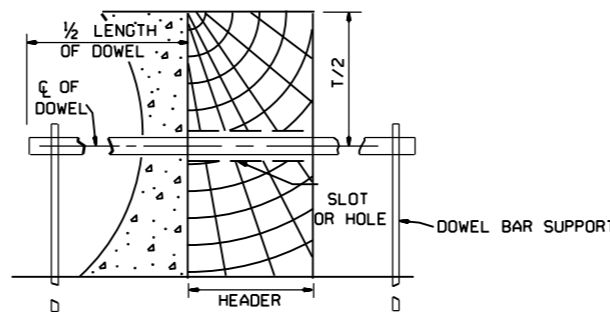
REINFORCING SHALL BE GRADE 40 OR GRADE 60 DEFORMED BARS.

GENERAL NOTES

- *T* DENOTES THICKNESS OF SLAB.
- DOWEL BARS SHALL BE PLACED IN ACCORDANCE WITH THE DIMENSIONS SHOWN. A TOLERANCE OF PLUS OR MINUS ONE INCH WILL BE ALLOWED FOR THE VERTICAL AND LATERAL PLACEMENT AND A TOLERANCE OF PLUS OR MINUS 1/4" WILL BE ALLOWED FOR THE TILT AND SKEW. DOWEL BARS SHALL BE FIELD COATED FOR A MINIMUM DISTANCE OF 2" GREATER THAN HALF THE LENGTH OF THE BAR WITH AN APPROVED GREASE AS A BOND BREAKER JUST PRIOR TO PLACEMENT OF CONCRETE.
- THE EXPANSION JOINT SUPPORT MAY BE CONSTRUCTED WITH CLASS 'A', 'S' OR PAVING CONCRETE. PAYMENT FOR THE JOINT SUPPORT SHALL BE FOR THE CONTRACT UNIT PRICE BID FOR THE CLASS OF CONCRETE SPECIFIED IN THE PLANS. PAYMENT FOR ALL OTHER WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE JOINT SUPPORT SHALL BE INCLUDED IN THE PRICE BID FOR THE ABOVE ITEMS.
- CONTRACTION JOINTS SHALL BE CONSTRUCTED ON 15' CENTERS.
- TOOLING NOT REQUIRED FOR SELF-LEVELING SILICONE.
- UNLESS OTHERWISE SPECIFIED IN THE PLANS, CONCRETE SHOULDERS SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS SHOWN HEREON. CONTRACTION JOINTS SHALL MATCH CONTRACTION JOINTS IN THE LANES.
- TIE WIRES IN DOWEL BAR ASSEMBLIES SHALL NOT BE CUT PRIOR TO PLACEMENT OF PAVING CONCRETE.



LONGITUDINAL CONSTRUCTION JOINT
NOTE: TIE BARS SHALL BE 15' FROM TRANSVERSE JOINTS.



SECTION

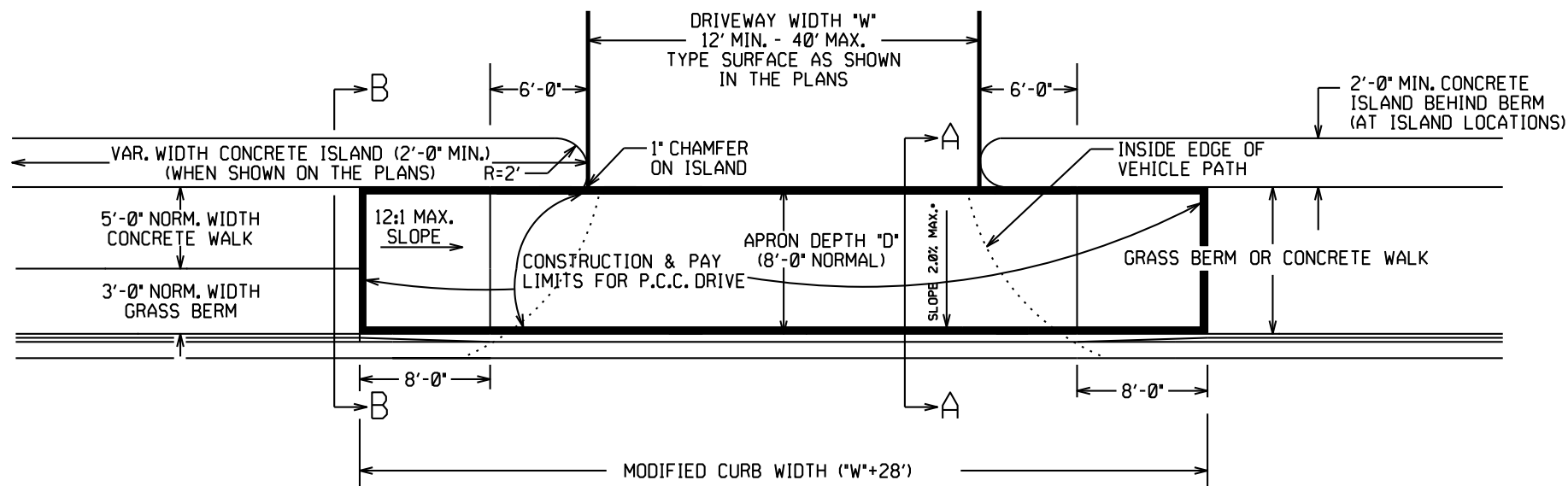
TRANSVERSE CONSTRUCTION JOINT

DATE	REVISION	DATE FILMED
11-07-19	REV. EXP. JOINT REF ON APP. SLAB	
5-25-06	ADDED GENERAL NOTE 7	
10-9-03	REMOVED TIE BAR COATING & REVISED GENERAL NOTES	
11-16-01	ADDED TOOL SEALANT AND NOTE 5; REVISED NOTE 3	
4-26-96	REVISED CONTRACTION JOINT NOTE	
11-3-94	ADDED NOTE RE: REINF. BARS	
4-1-93	REVISED DOWEL BARS & GEN. NOTES	4-1-93
10-1-92	REVISED DOWEL SPACING	10-1-92
8-15-91	ADDED SPAC FOR CONTR JTS & DEL KEYWAY	
05-24-90	REVISED TIE BAR, DOWEL & JOINT SIZE	
01-25-90	ADDED EXPANSION JOINT	01-25-90
11-30-89	CHANGED T/4+1 TO T/3+1	11-30-89
03-23-89	ALTERED SAWED JOINT & ADDED NOTE	512-03-23-89
07-15-88	REVISED AND REDRAWN	632-07-15-88

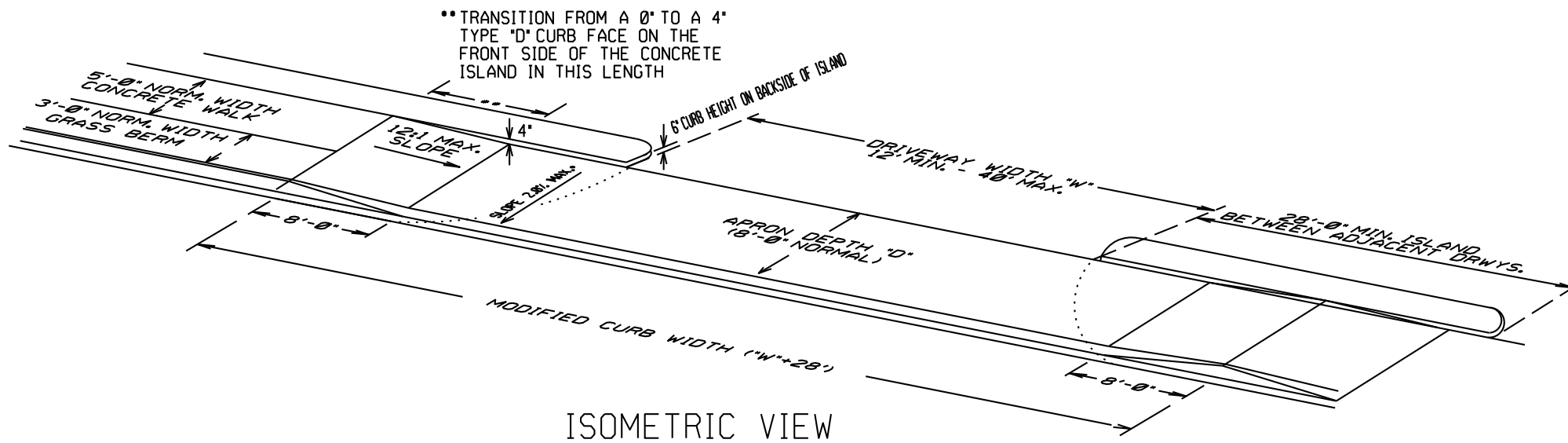
ARKANSAS STATE HIGHWAY COMMISSION

TRANSVERSE & LONGITUDINAL JOINTS FOR CONCRETE PAVEMENT (NON-REINFORCED)

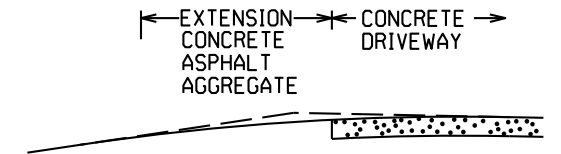
STANDARD DRAWING CPTJ - 6A



PLAN VIEW



ISOMETRIC VIEW

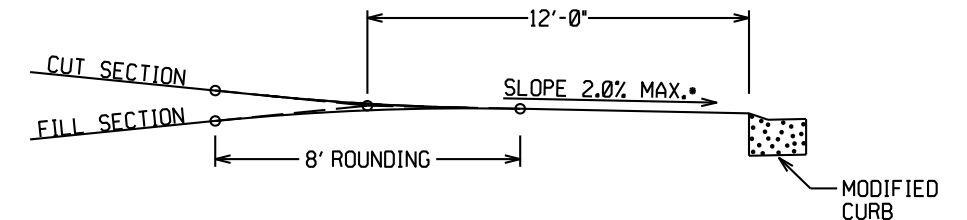


EXTENSION TYPICAL SECTIONS

- 1: CONCRETE - 6" P.C. CONCRETE DRIVEWAY
- 2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE (1") OR
4" ACHM BASE COURSE (1-1/2")
- 3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE
- 4: AGGREGATE - 6" AGGREGATE BASE COURSE

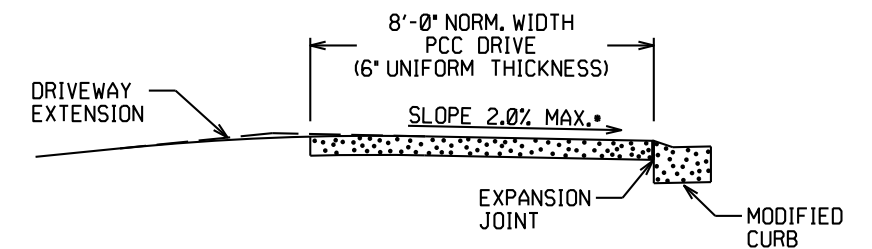
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

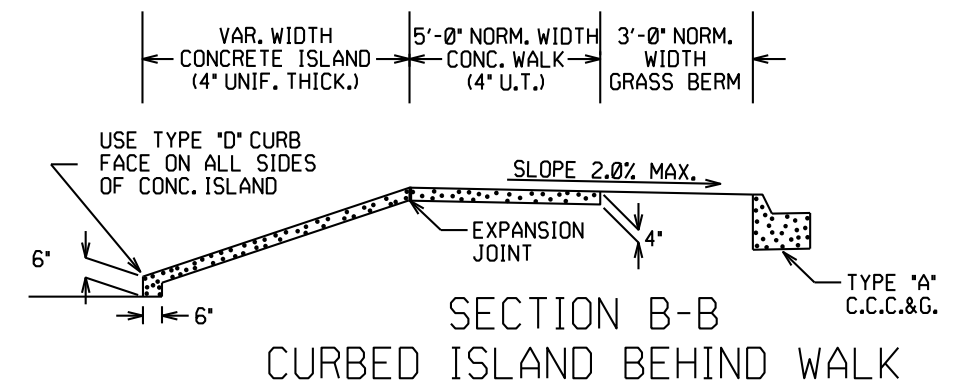


DRIVEWAY VERTICAL ALIGNMENT DETAILS

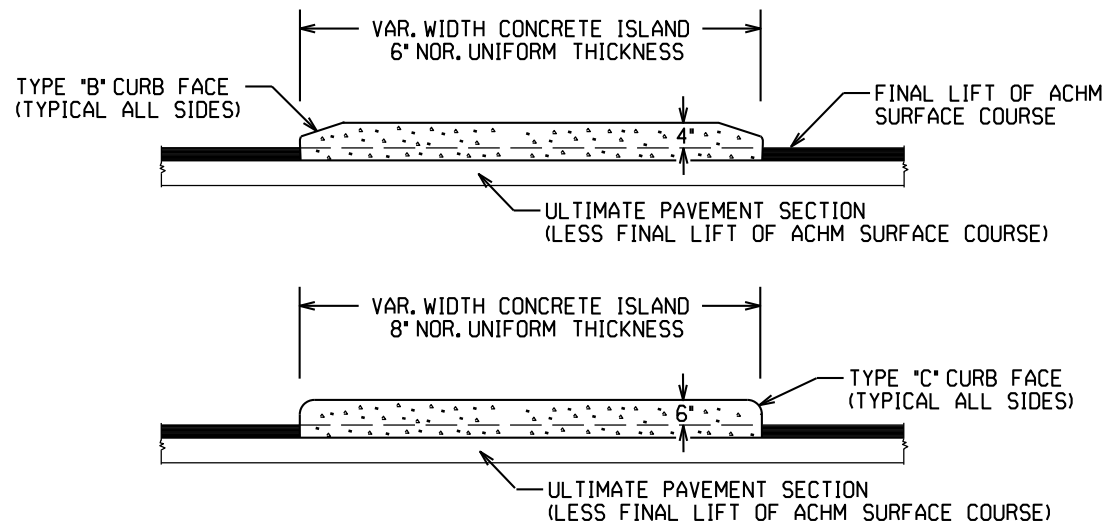
NOTE: DRIVEWAYS MAY NOT BE SLOPED AWAY FROM THE ROADWAY UNLESS APPROVED BY THE ENGINEER.



SECTION A-A



SECTION B-B
CURBED ISLAND BEHIND WALK

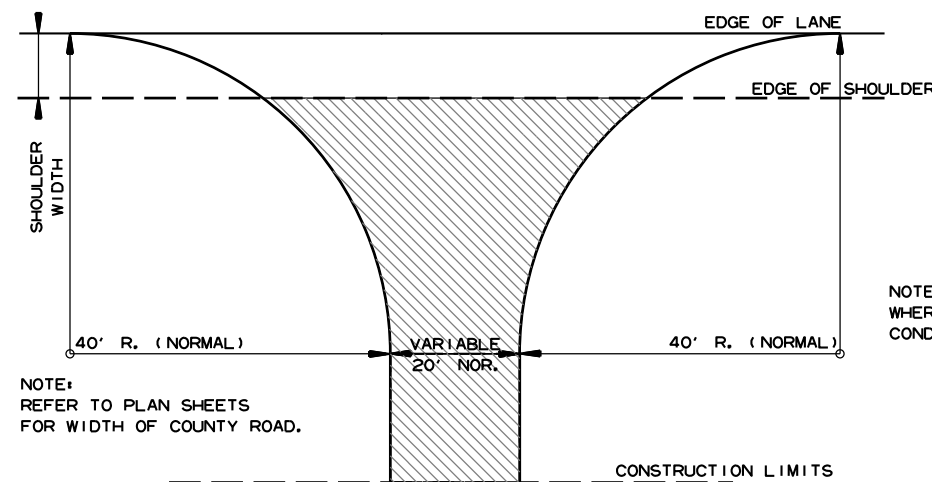


CURBED ISLANDS FOR CHANNELIZATION

CONCRETE ISLAND NOTES:


1. REFER TO PLANS FOR TYPE OF CURB FACE TO BE USED. NO DIRECT PAYMENT WILL BE MADE FOR THE CURB FACES SHOWN ON THE ISLAND DETAILS. PAYMENT FOR THE CURB FACE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM "CONCRETE ISLAND".
2. TRANSVERSE EXPANSION JOINTS, NOT LESS THAN 1/2" WIDE, SHALL BE PLACED AT MINIMUM INTERVAL OF 45'. TRANSVERSE JOINT SHALL BE CONSTRUCTED USING A JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REV	DATE FILMED	DESCRIPTION
5-19-22			REVISED ISLAND NOTES
11-07-19			REVISED WALK DETAILS
2-27-14			REVISED PLAN & ISOMETRIC VIEW
11-29-07			ADDED CHANNELIZATION ISLAND WITH TYPE C CURB FACE & REVISED DRIVEWAY SLOPE NOTE & VERTICAL ALIGNMENT DETAIL
11-10-05			REV. APRON SLOPE & DEPTH OF AGG. BASE.
8-22-02			ADDED ISLAND DETAILS & NOTES
3-30-00			REV. MOD. CURB WIDTH & TRANS. NOTE
11-19-98			REVISED NOTES
11-18-98			REDRAWN AND REISSUED

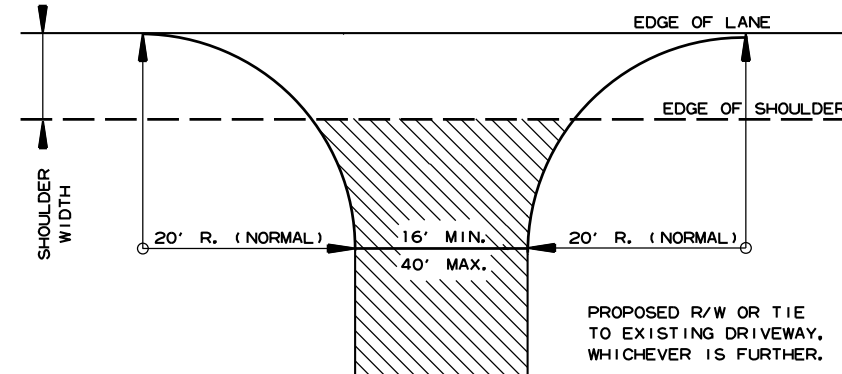


NOTE:
REFER TO PLAN SHEETS
FOR WIDTH OF COUNTY ROAD.


NOTE: TURNOUTS SHALL BE MODIFIED
WHERE NECESSARY TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.

 ACHM SURFACE COURSE (1/2")
(220 LBS. PER SQ. YD.) AND
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH, UNLESS OTHERWISE
SPECIFIED IN PLANS.

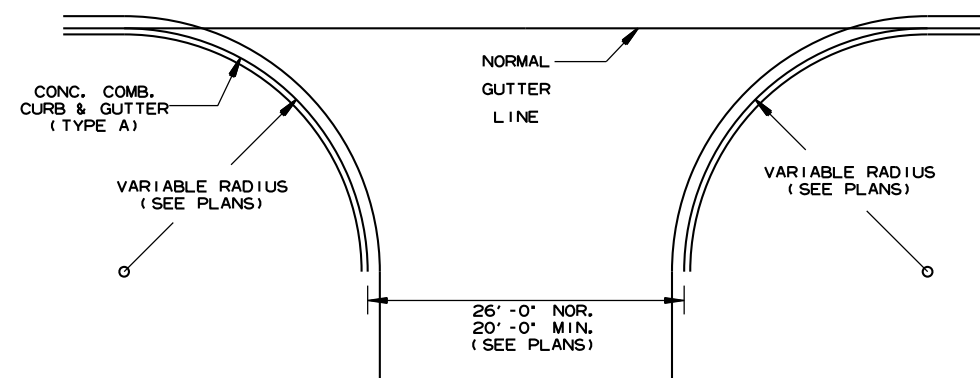
DETAIL FOR COUNTY ROAD TURNOUTS
OPEN SHOULDER SECTION



NOTE: TURNOUTS AND PRIVATE DRIVES
SHALL BE MODIFIED WHERE NECESSARY
TO MEET LOCAL CONDITIONS AS DIRECTED
BY THE ENGINEER.

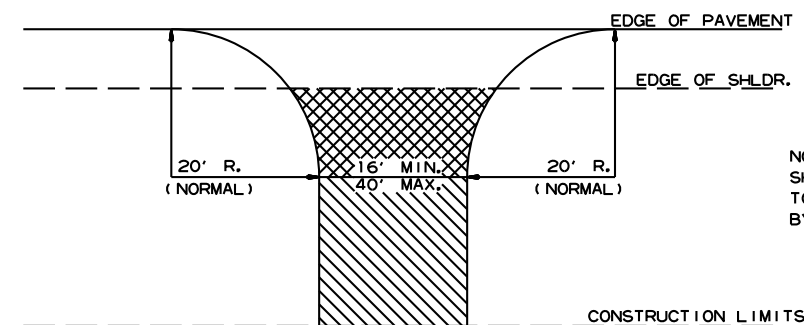
 ACHM SURFACE COURSE (1/2")
(220 LBS. PER SQ. YD.) AND
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH IF ASPHALT OR
GRAVEL DRIVE EXISTING; OR 6"
CONCRETE IF CONCRETE DRIVE
EXISTING.

DETAIL FOR DRIVEWAY TURNOUTS
OPEN SHOULDER SECTION
(ARTERIALS)





NOTE:
PAVEMENT STRUCTURE FOR STATE HIGHWAYS, CITY STREETS,
& COUNTY ROADS TO BE SAME AS MAIN LANES.

DETAIL OF TURNOUTS, ASPHALT STREETS,
COUNTY ROADS & STATE HIGHWAYS
CURB & GUTTER SECTION



NOTE: TURNOUTS AND PRIVATE DRIVES
SHALL BE MODIFIED WHERE NECESSARY
TO MEET LOCAL CONDITIONS AS DIRECTED
BY THE ENGINEER.

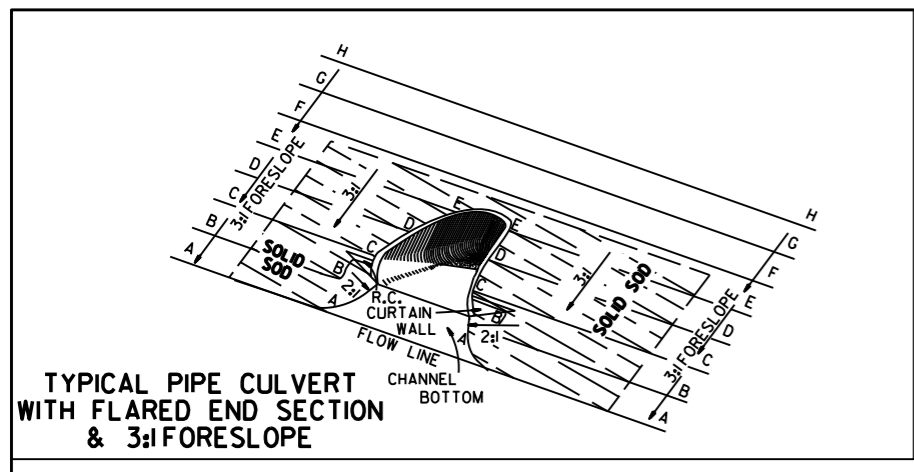
 ASPHALT CONCRETE HOT MIX SURFACE
COURSE (220 LBS. PER SQ. YD.)
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH IF ASPHALT DRIVE EXIST OR
6" CONCRETE IF CONCRETE DRIVE EXIST.

 AGGREGATE BASE COURSE (CLASS 7)
9" COMP. DEPTH OR CONFORM
TO EXISTING DRIVEWAY

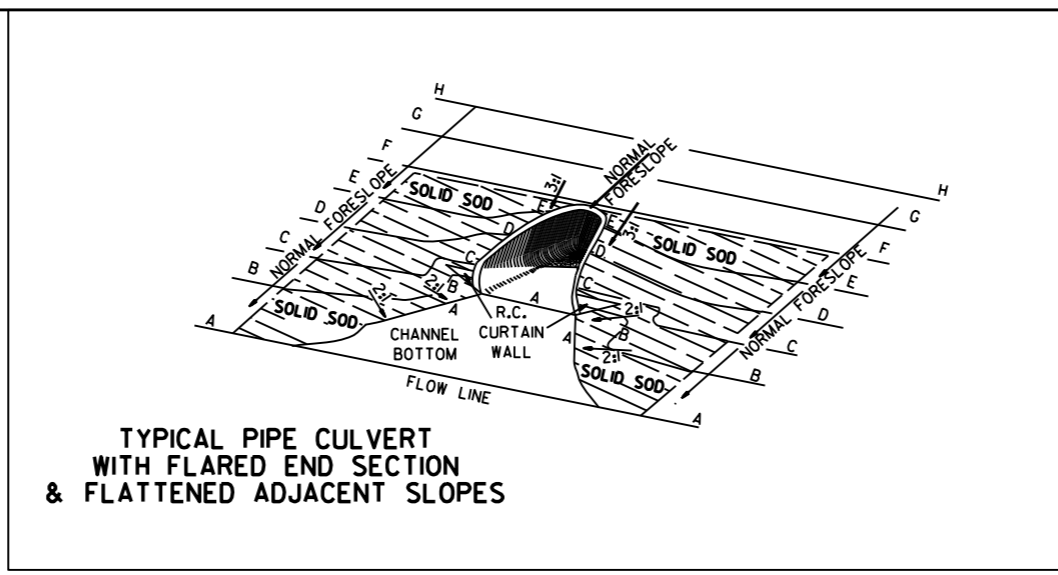
DETAIL FOR DRIVEWAY TURNOUTS
(COLLECTORS)

DATE	REV	DATE FILMED	DESCRIPTION
5-19-22			ISSUED

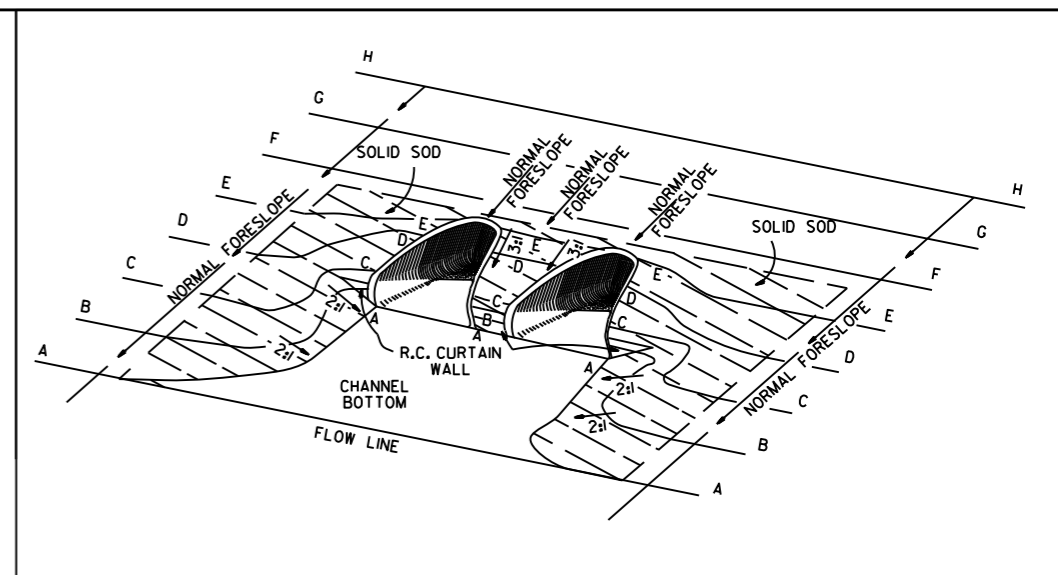
ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF DRIVEWAYS & STREET
TURNOUTS
STANDARD DRAWING DR-2



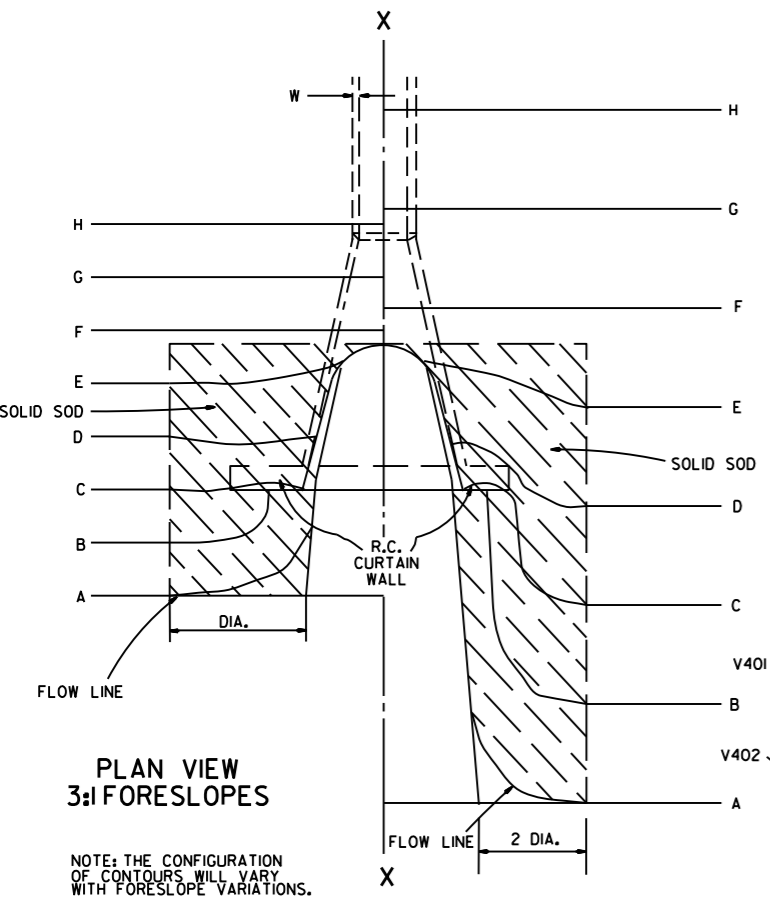
TYPICAL PIPE CULVERT WITH FLARED END SECTION & 3:1 FORESLOPE



TYPICAL PIPE CULVERT WITH FLARED END SECTION & FLATTENED ADJACENT SLOPES

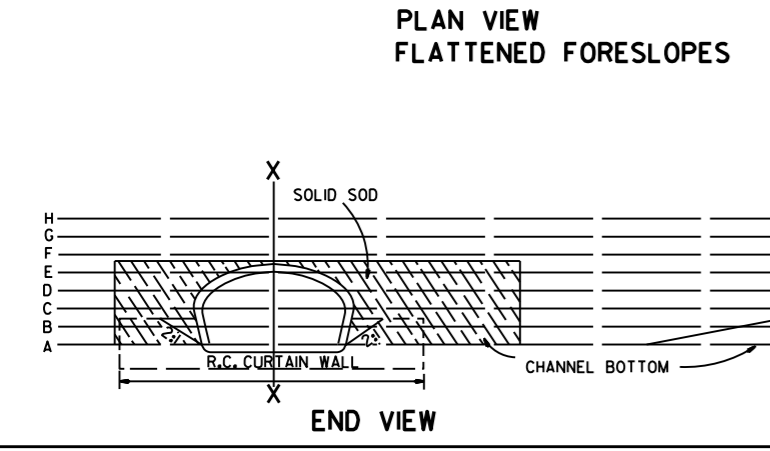


TYPICAL MULTIPLE PIPE CULVERT WITH FLARED END SECTIONS & FLATTENED ADJACENT SLOPES



PLAN VIEW 3:1 FORESLOPES

NOTE: THE CONFIGURATION OF CONTOURS WILL VARY WITH FORESLOPE VARIATIONS.



PLAN VIEW FLATTENED FORESLOPES

R.C. CURTAIN WALL DIMENSIONS & QUANTITIES

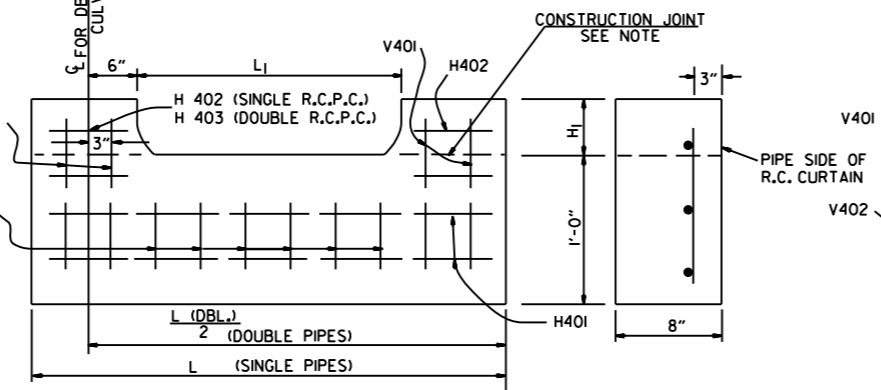
PIPE DIA.	H ₁	L ₁	L	L (DBL.) / 2	SINGLE R.C.P.C.		DOUBLE R.C.P.C.	
					CONC. CU. YDS.	REINF. STEEL LBS.	CONC. CU. YDS.	REINF. STEEL LBS.
18"	11 1/2"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0 1/2"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3 1/2"	5'-7"	11'-0"	9'-0"	0.45	39.0	0.67	59.0
36"	1'-7"	6'-8"	13'-0"	10'-6"	0.58	52.6	0.83	73.9
42"	2'-1 1/2"	7'-3"	15'-6"	12'-0"	0.82	77.1	1.10	100.7
48"	2'-5"	7'-10"	17'-0"	13'-0"	0.98	94.9	1.27	120.4
54"	2'-9 1/2"	8'-5"	18'-6"	14'-0"	1.16	115.8	1.47	143.7
60"	3'-4"	9'-0"	20'-6"	15'-6"	1.47	149.7	1.84	180.3
72"	4'-5"	10'-2"	25'-6"	18'-6"	2.31	232.6	2.73	271.0

NOTE: QUANTITIES SHOWN ARE FOR ONE (1) CURTAIN WALL.

REINFORCING STEEL SCHEDULE

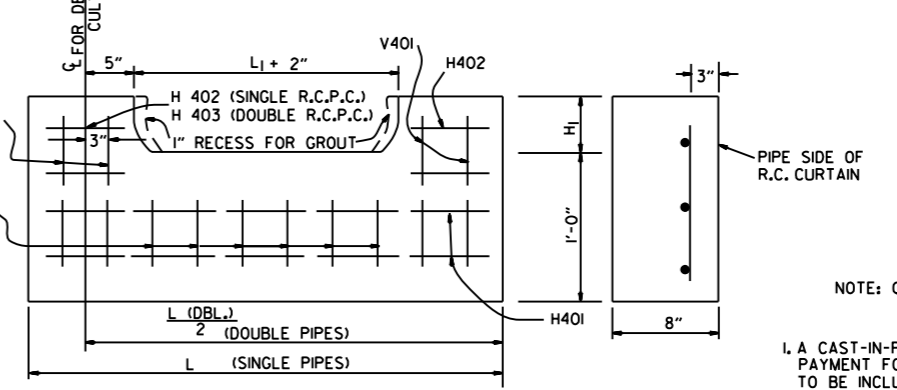
PIPE DIA.	SINGLE R.C. PIPE CULVERT				DOUBLE R.C. PIPE CULVERT													
	H401		H402		V401		V402		H401		H402		H403		V401		V402	
L	NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	NO.	
18"	7'-8"	2	1'-11 1/2"	4	1'-7 1/2"	8	8"	8	12'-2"	2	1'-11 1/2"	4	8"	2	1'-7 1/2"	10	8"	14
24"	9'-2"	2	2'-2"	4	1'-8 1/2"	10	8"	9	14'-8"	2	2'-2"	4	8"	2	1'-8 1/2"	12	8"	18
30"	10'-8"	2	2'-4 1/2"	4	1'-11 1/2"	10	8"	12	17'-8"	2	2'-4 1/2"	4	8"	2	1'-11 1/2"	14	8"	22
36"	12'-8"	2	2'-10"	6	2'-3"	12	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
42"	15'-2"	2	3'-9 1/2"	8	2'-9 1/2"	16	8"	15	23'-8"	2	3'-9 1/2"	8	8"	4	2'-9 1/2"	18	8"	30
48"	16'-8"	2	4'-3"	10	3'-1"	18	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
54"	18'-2"	2	4'-8 1/2"	12	3'-5 1/2"	20	8"	17	27'-8"	2	4'-9"	12	8"	6	3'-5 1/2"	22	8"	34
60"	20'-2"	2	5'-5"	14	4'-0"	24	8"	18	30'-8"	2	5'-5"	14	8"	7	4'-0"	26	8"	36
72"	25'-2"	2	7'-4"	18	5'-1"	30	8"	20	36'-8"	2	7'-4"	18	8"	9	5'-1"	33	8"	40

ALL REINFORCING STEEL #4 BARS @ 6" O.C.



R.C. CURTAIN WALL DETAILS

NOTE: THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE & THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.



NOTE: THE PRECAST CURTAIN WALL WILL BE SET AND BACKFILLED WITH COMPACTED MATERIAL. THE FLARED END SECTION SHALL THEN BE SET IN PLACE AND THE 1\"/>

SOLID SODDING

PIPE DIA.	SINGLE R.C.P.C.			DOUBLE R.C.P.C.		
	3:1	4:1	6:1	3:1	4:1	6:1
18"	5	7	12	6	8	13
24"	8	12	19	9	13	20
30"	13	18	29	14	19	30
36"	17	26	41	18	28	43
42"	23	35	55	25	37	57
48"	29	46	68	31	48	70
54"	35	57	85	37	59	87
60"	45	62	104	48	65	107
72"	64	92	156	67	95	159

NOTE: QUANTITIES SHOWN ABOVE ARE FOR ONE (1) END OF F.E.S.

- GENERAL NOTES
1. A CAST-IN-PLACE OR PRECAST CURTAIN WALL MAY BE USED. PAYMENT FOR THE CURTAIN WALL SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID EACH FOR FLARED END SECTIONS OF THE SEVERAL SIZES, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS INCLUDING REINFORCING STEEL AND CONCRETE; FOR FORMS, MIXING AND PLACING; FOR EXCAVATION AND BACKFILL; AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
 2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4".
 3. CONCRETE FOR CURTAIN WALL SHALL MEET THE REQUIREMENTS FOR CLASS A OR S CONCRETE AS PROVIDED IN SECTION 802 OF THE STANDARD SPECIFICATIONS OR FOR PAVING CONCRETE AS PROVIDED IN SECTION 501 OF THE STANDARD SPECIFICATIONS.
 4. WELDED WIRE MESH 3 x 3 W/10 x W/10 MAY BE USED IN LIEU OF REINFORCING BARS.

10-18-96 ADDED NOTE TO SOLID SODDING			ARKANSAS STATE HIGHWAY COMMISSION
10-12-95 CORRECTED SPELLING			
11- 3-94 ADDED GENERAL NOTE NO. 4			
8-15-91 REV. CURTAIN WALL QUANT. STEEL SCH. & SOLID SOD QUANT.			
3-2-81 ALLOW PRECAST IN 2 OR MORE PIECES CHAMFER EDGES			
5-15-80 ADDED PRECAST WALL & GENERAL NOTES			
10-2-72 REVISED AND REDRAWN			
DATE	REVISION	FILMED	STANDARD DRAWING FES-1

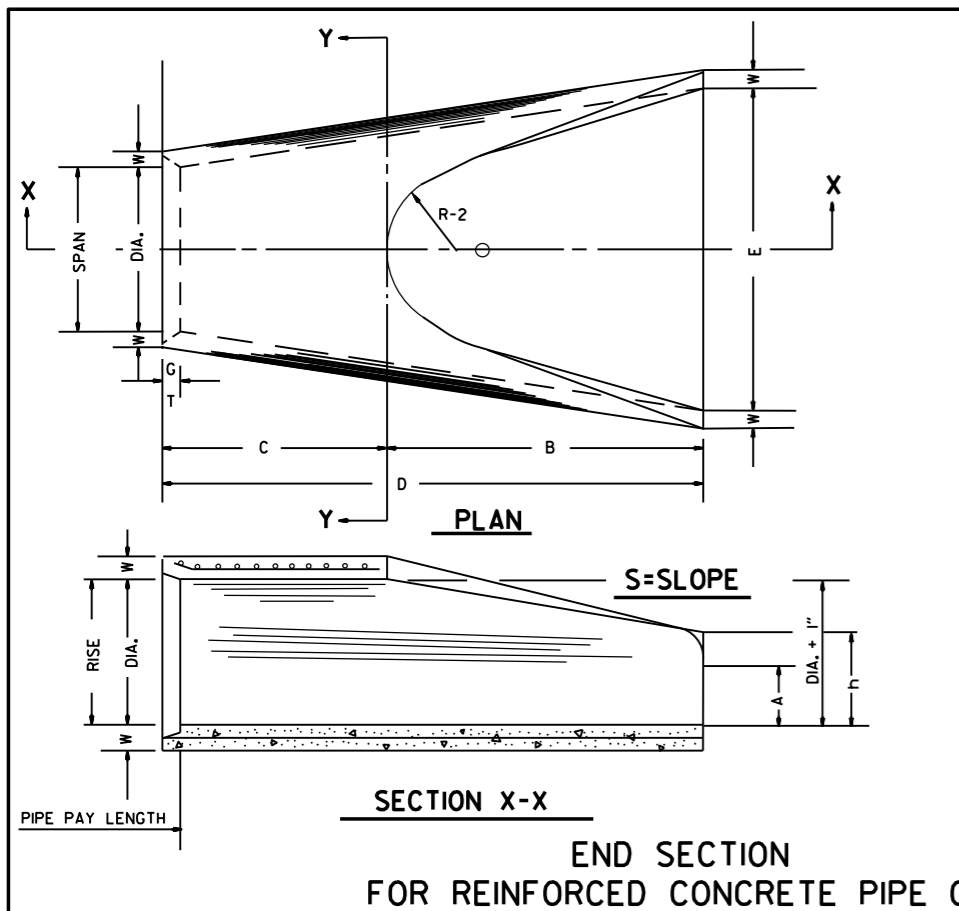
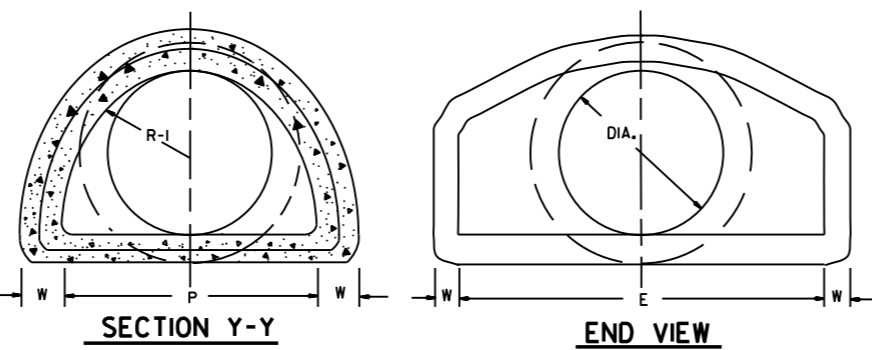


TABLE OF DIMENSIONS

DIA.	WALL	A	B	C	D	E	S	DIA. + 1"	P	R-1	R-2	G-T	WT.	h
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15 1/2"	12"	2"	1000	1'-0 1/2"
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3:1	25"	33 3/8"	16 3/8"	14"	2 1/2"	1600	1'-1 1/2"
30"	3 1/2"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3:1	31"	37"	18 1/2"	15"	3 1/4"	1940	1'-4 5/8"
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	3:1	37"	47 3/8"	24 3/8"	20"	3 1/2"	4100	1'-8"
42"	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53 3/8"	27 1/2"	22"	3 3/8"	5380	2'-2 1/2"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56 1/2"	28 1/2"	22"	3 1/2"	6550	2'-6"
54"	5 1/2"	2'-4"	6'-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65 1/2"	33 3/8"	24"	4"	8750	2'-10 1/2"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72 1/2"	36 1/8"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 3/8"	38 3/8"	24"	5"	13250	4'-6"

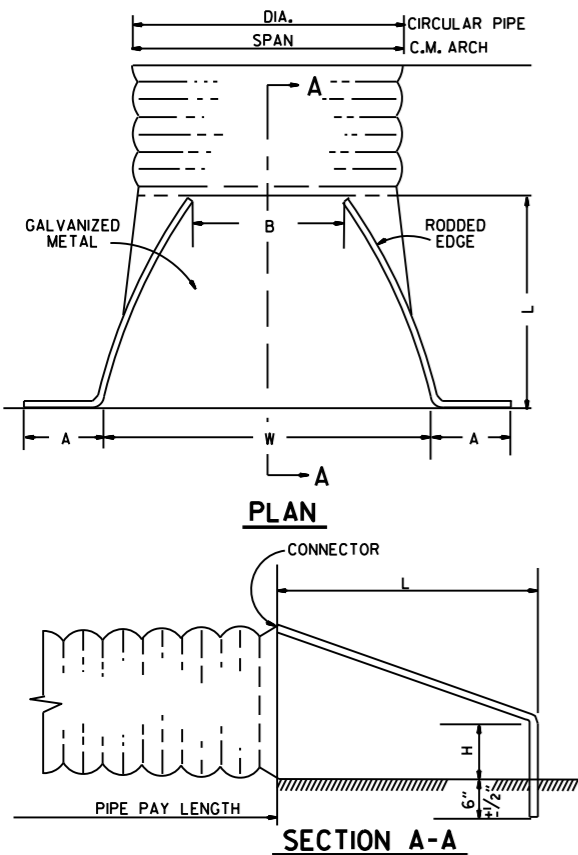
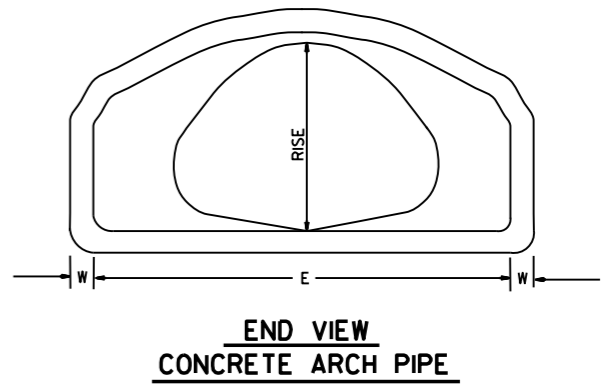


NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

ARCH PIPE

EQUIV. DIA.	• SPAN		• RISE		W	A	B	C	D	E	P	R2	G-T	S
	AASHTO M 206	AHD NOMINAL	AASHTO M 206	AHD NOMINAL										
	INCHES													
15	18	18	11	11	2"	4"	2'-0"	4'-0"	6'-0"	3'-0"	29"	12"	1 1/2"	2 1/2:1
18	22	22	13 1/2	14	2 1/2"	5"	2'-0"	4'-1"	6'-1"	3'-6"	32 1/8"	13"	2 1/2"	2 1/2:1
21	26	26	15 1/2	16	2 3/4"	7"	2'-3"	3'-10"	6'-1"	4'-0"	34 1/8"	14"	2 1/2"	2 1/2:1
24	28 1/2	29	18	18	3"	9"	2'-3"	3'-10"	6'-1"	5'-0"	36 3/8"	15"	2 1/2"	2 1/2:1
30	36 1/4	36	22 1/2	23	3 1/2"	10"	3'-1"	3'-0 1/2"	6'-1 1/2"	6'-0"	47 1/8"	20"	3"	2 1/2:1
36	43 3/4	44	26 3/8	27	4"	10 1/2"	4'-0"	2'-11 1/2"	6'-1 1/2"	6'-6"	54 3/8"	22"	3 1/2"	2 1/2:1
42	51 1/8	51	31 3/8	31	4 1/2"	11 1/2"	4'-7"	1'-10 1/4"	6'-5 1/4"	7'-2"	59 1/2"	23"	3 3/4"	2 1/2:1
48	58 1/2	59	36	36	5"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	7'-10"	70 3/8"	24"	4 1/4"	2 1/2:1
54	65	65	40	40	5 1/2"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72 1/8"	24"	4 3/4"	2 1/2:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77 3/8"	24"	5"	2 1/2:1

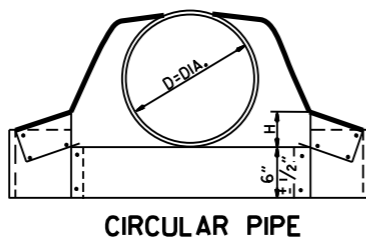
• THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PER CENT FROM THE VALUES SPECIFIED BY AASHTO M 206.



NOTE: ALTERNATE CONNECTIONS TO THE PIPE CULVERTS, IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICES, MAY BE MADE SUBJECT TO THE APPROVAL OF THE ENGINEER.

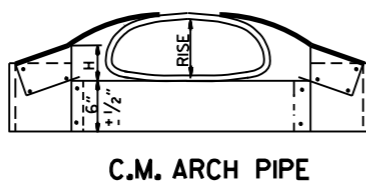
CIRCULAR PIPE

D. DIA.	GAUGE	INCHES							S
		A	B. MAX.	H	L	W	S		
12	16	6	6	6	21	24	2 1/2:1	6	
15	16	7	8	6	26	30	2 1/2:1	8	
18	16	8	10	6	31	36	2 1/2:1	10	
21	16	9	12	6	36	42	2 1/2:1	12	
24	16	10	13	6	41	48	2 1/2:1	14	
30	14	12	16	8	51	60	2 1/2:1	18	
36	14	14	19	9	60	72	2 1/2:1	21	
42	12	16	22	11	69	84	2 1/2:1	24	
48	12	18	27	12	78	90	2 1/2:1	28	
54	12	18	30	12	84	102	2 1/2:1	32	
60	12	18	33	12	87	114	1 3/4:1	36	
66	12	18	36	12	87	120	1 1/2:1	42	
72	12	18	39	12	87	126	1 1/3:1	48	

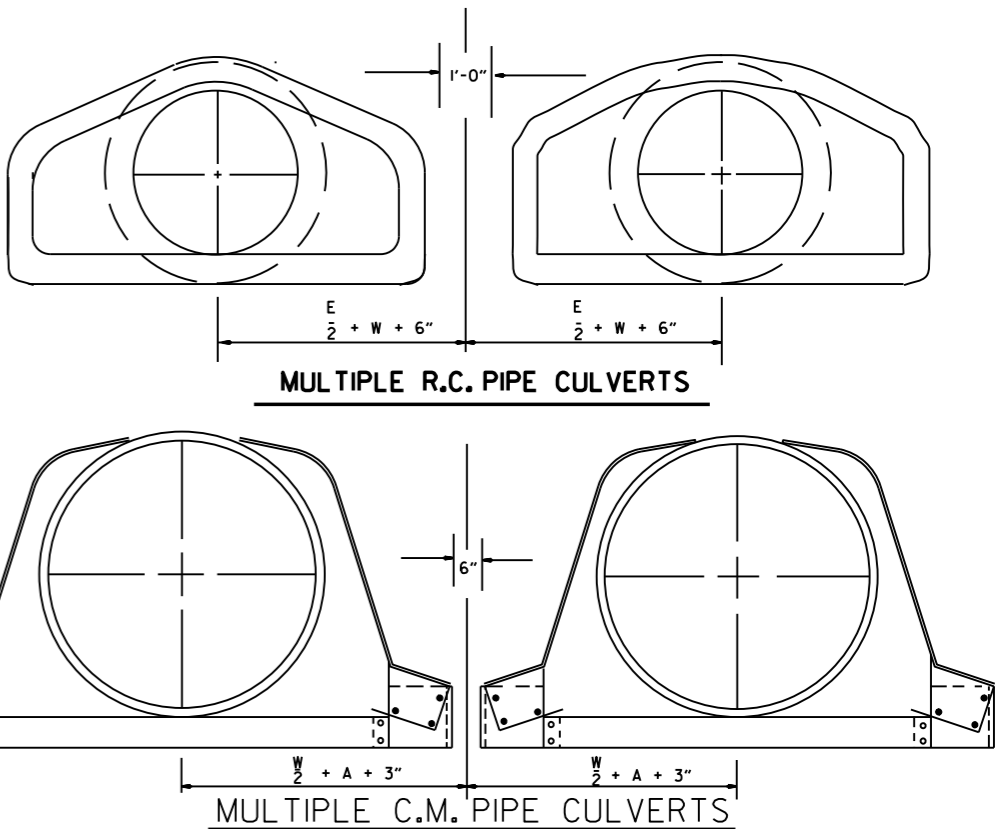


C.M. ARCH PIPE

EQUIV. DIA.	SPAN	RISE	INCHES					S	GAUGE
			A	B	H	L	W		
			1" \pm	MAX.	1" \pm	1/2" \pm	2" \pm		
15"	17	13	7	9	6	19	30	2 1/2:1	16
18"	21	15	7	10	6	23	36	2 1/2:1	16
21"	24	18	8	12	6	28	42	2 1/2:1	16
24"	28	20	9	14	6	32	48	2 1/2:1	16
30"	35	24	10	16	6	39	60	2 1/2:1	14
36"	42	29	12	18	8	46	75	2 1/2:1	14
42"	49	33	13	21	9	53	85	2 1/2:1	12
48"	57	38	18	26	12	63	90	2 1/2:1	12
54"	64	43	18	30	12	70	102	2 1/4:1	12
60"	71	47	18	33	12	77	114	2 1/4:1	12

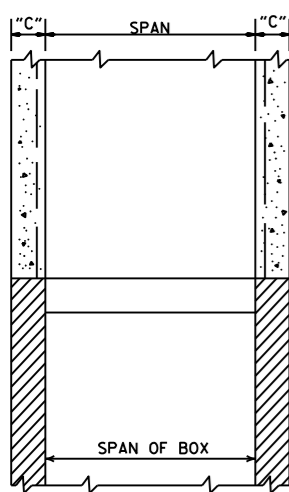


END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS

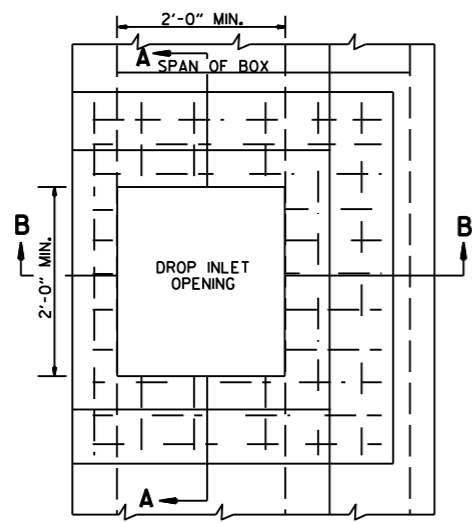


10-18-96	REVISED ASTM REF. TO AASHTO		ARKANSAS STATE HIGHWAY COMMISSION
5-15-80	REVISED DISTANCE BETWEEN MULTIPLE R.C.P. F.E.S.	664-5-15-80	
7-14-78	C.M. ARCH SIZES TO CONFORM WITH AASHTO SIZES	752-7-14-78	
8-22-75	ADDED MULTIPLE PIPE CULVERTS	517-8-22-75	
12-5-74	REMOVED NOTE RE REINF. FOR R.C. F.E.S.	500-12-5-74	
5-24-73	CMP END SECTION, SHOW PIPE PAY LENGTH	627-5-24-73	
10-2-72	REVISED AND REDRAWN	760-10-2-72	
DATE	REVISION	FILM	

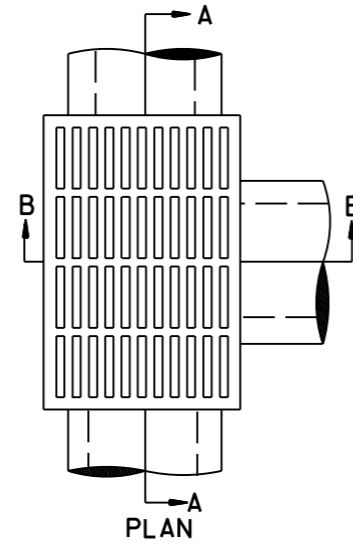
**FLARED END SECTION
STANDARD DRAWING FES-2**



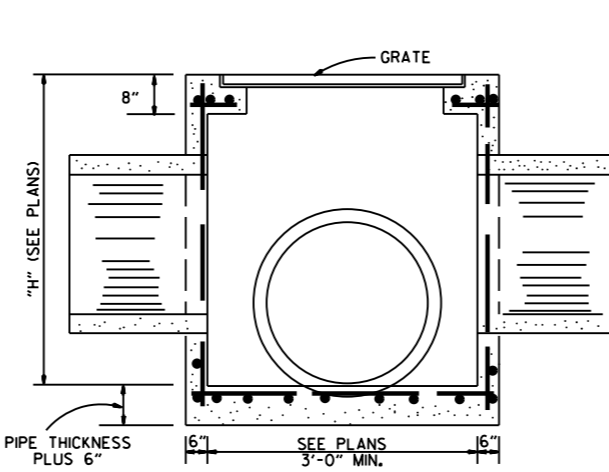
SECTION B-B



PLAN



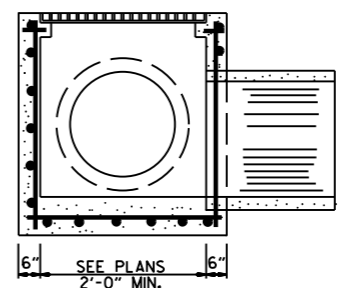
PLAN



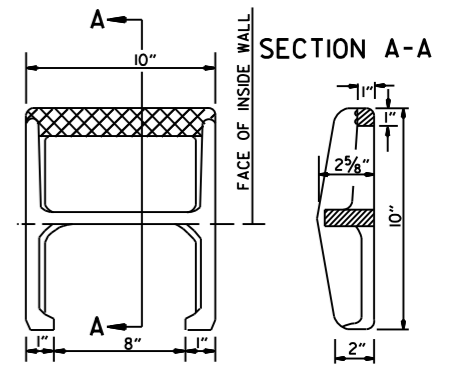
SECTION A-A

DROP INLET (TYPE E)

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1/2" MIN. COVER. THIS TYPE DROP INLET TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.

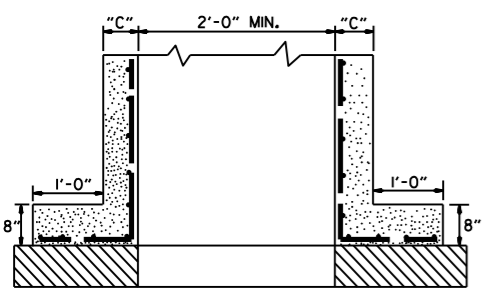


SECTION B-B

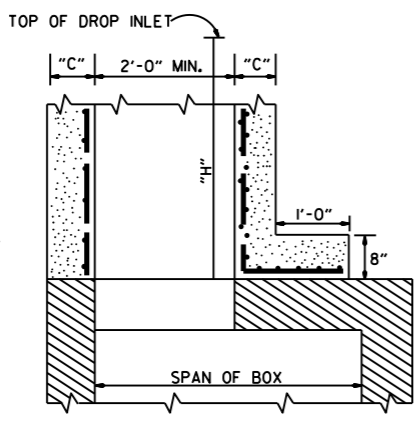


APPROX. WEIGHT = 11 LBS. (CAST IRON)
PLAN
 NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET

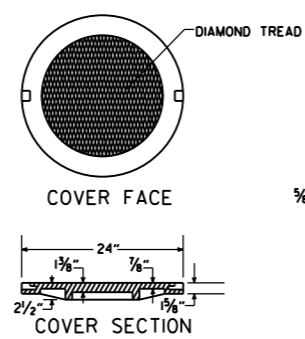


SECTION A-A



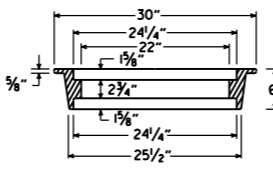
SECTION B-B

METHOD OF CONSTRUCTING DROP INLET ON EXISTING R.C. BOX CULVERT

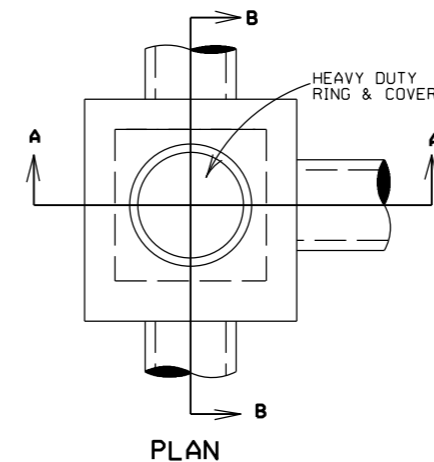


APPROXIMATE TOTAL WEIGHT = 333 LBS.

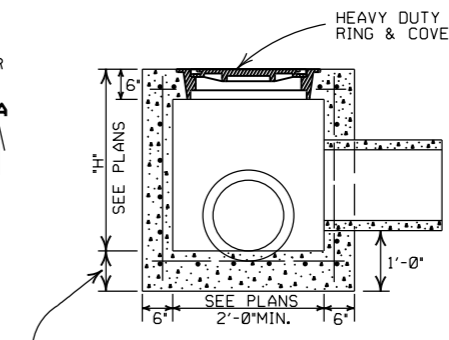
HEAVY DUTY RING & COVER



RING SECTION

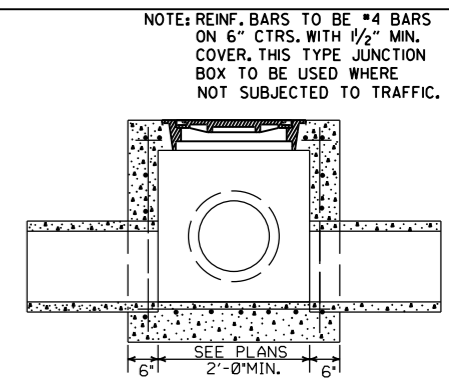


PLAN



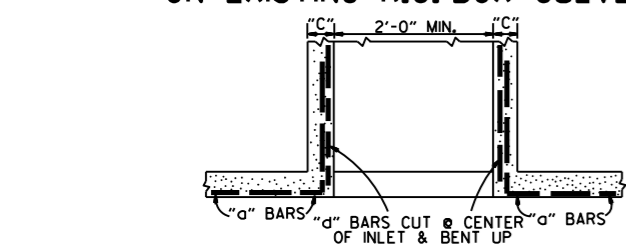
SECTION A-A

JUNCTION BOX (TYPE E)

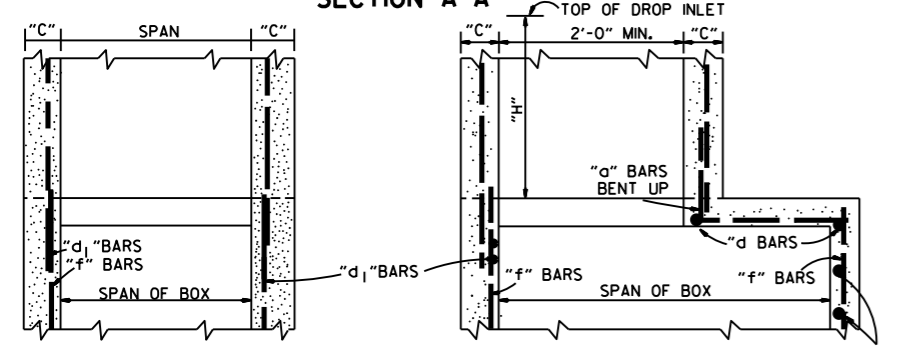


SECTION B-B

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1/2" MIN. COVER. THIS TYPE JUNCTION BOX TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.



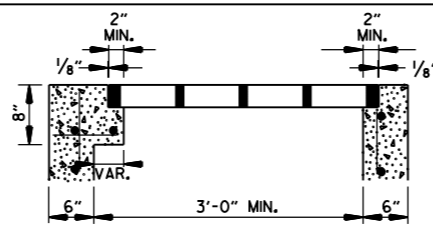
SECTION A-A



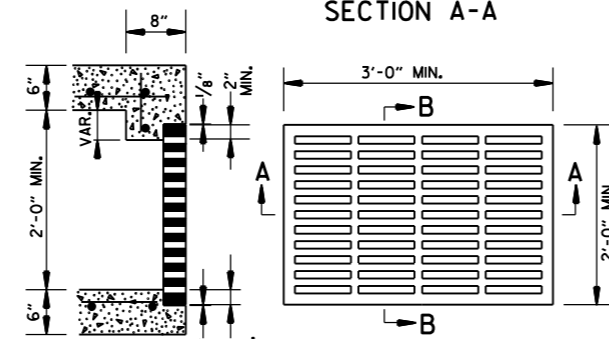
SECTION B-B

METHOD OF CONSTRUCTING DROP INLET ON NEW R.C. BOX CULVERT

NOTE: "C" DIMENSIONS AND REINFORCING BAR SIZES, SHALL CONFORM TO THOSE SHOWN ON STANDARD DRAWING FOR DROP INLET.



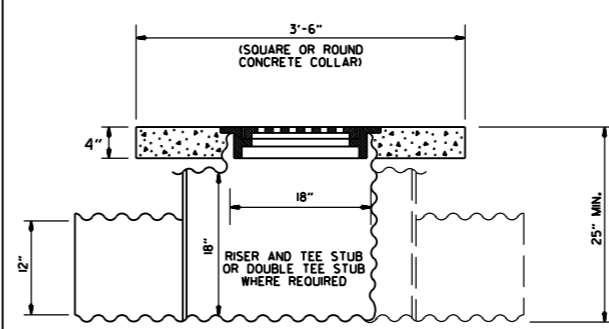
SECTION A-A



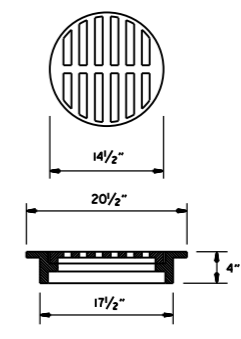
SECTION B-B

GRATE FOR TYPE E DROP INLET

APPROXIMATE MINIMUM WATERWAY OPENING = 260 SQ. IN.



NOTE: CONCRETE COLLAR TO BE CAST IN PLACE. 12" PIPE CULVERTS TO BE MEASURED AND PAID FOR AS " 12" SIDE DRAIN "



USE NEENAH R-590I-C OR EQUIVALENT BICYCLE SAFE FRAME AND GRATE

DETAIL OF YARD DRAIN

DATE	REV.	REVISION	DATE FILMED
11-16-01		ADDED NOTE 10	
1-12-00		REVISED HEAVY DUTY RING & COVER	
7-02-98		CHANGED GRATE DETAIL, DELETED DI (TYPE D), REPLACED RING & COVER W/HEAVY DUTY RING & COVER, ADDED JUNCTION BOX (TYPE E)	
6-26-97		ADDED DIMENSION TO TYPE IV-A	
10-18-96		ADDED DETAIL OF YARD DRAIN	
8-15-91		DELETE TYPE IV GRATE	
7-15-88		REVISED STEP DETAIL	
5-20-83		REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83		ADDED GENERAL NOTE NO. 4	
3-2-81		ADDED TYPE IV-A GRATE	
5-22-74		DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72		REVISED AND REDRAWN	

- GENERAL NOTES:
1. ALL EXPOSED CORNERS SHALL BE 3/4" CHAMFERED.
 2. STEPS SHALL BE INSTALLED ON 16" CENTERS ON ALL INLETS 4'-0" HIGH OR OVER, OR AS APPROVED BY THE ENGINEER.
 3. EXPANSION JOINT MATERIAL SHALL BE 3/4" PREFORMED FIBER.
 4. GRATE OR GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B. GRATE MAY BE USED WITHOUT FRAME.
 5. GRATE AND FRAME SHALL NOT BE PAINTED.
 6. GRATE SHALL BE BICYCLE SAFE.
 7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
 8. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B & AASHTO M 306.
 9. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
 10. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER, REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

ARKANSAS STATE HIGHWAY COMMISSION
 DETAILS OF DROP INLETS
 & JUNCTION BOXES
 STANDARD DRAWING FPC-9

4'-0" LENGTH DROP INLET DROP INLET EXTENSION

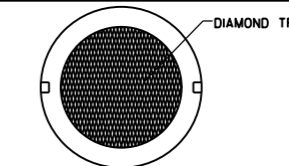
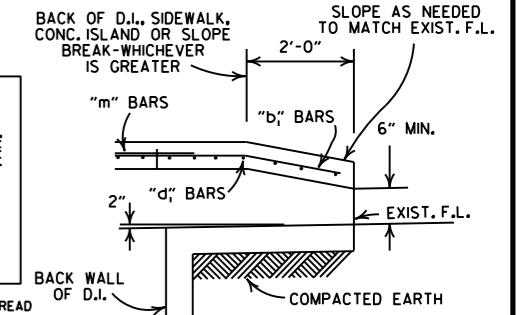
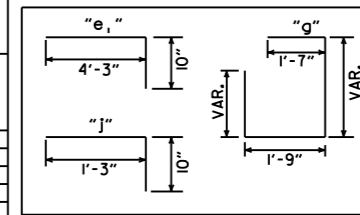
PIPE SIZE	MIN. WIDTH	HEIGHT 5'-0"		PLUS OR MINUS PER LIN. FT. OF HEIGHT		4'-0"		8'-0"	
		CLASS A CONC.	REINF. STEEL	CLASS A CONC.	REINF. STEEL	CLASS A CONC.	REINF. STEEL	CLASS A CONC.	REINF. STEEL
		CU. YDS.	POUNDS	CU. YDS.	POUNDS	CU. YDS.	POUNDS	CU. YDS.	POUNDS
18"	2'-6"	1.77	156	0.28	22	0.58	38	0.87	72
24"	2'-6"	1.79	156	0.28	22				
30"	3'-2"	2.39	205	0.30	26				
36"	3'-8"	2.63	236	0.32	28				
42"	4'-4"	2.95	250	0.34	30				
48"	4'-10"	3.21	265	0.36	32				
						DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED.			
						0.04	3		

NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY.

DEDUCT FROM QUANTITY COMPUTED FOR EACH PIPE ENTERING INLET

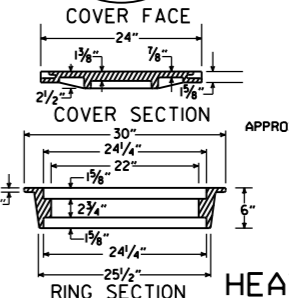
INSIDE DIA. PIPE	CLASS A CONC.	REINF. STEEL
INCHES	CU. YDS.	POUNDS
18	0.05	2
24	0.09	3
30	0.13	4
42	0.24	8

BAR DIAGRAM



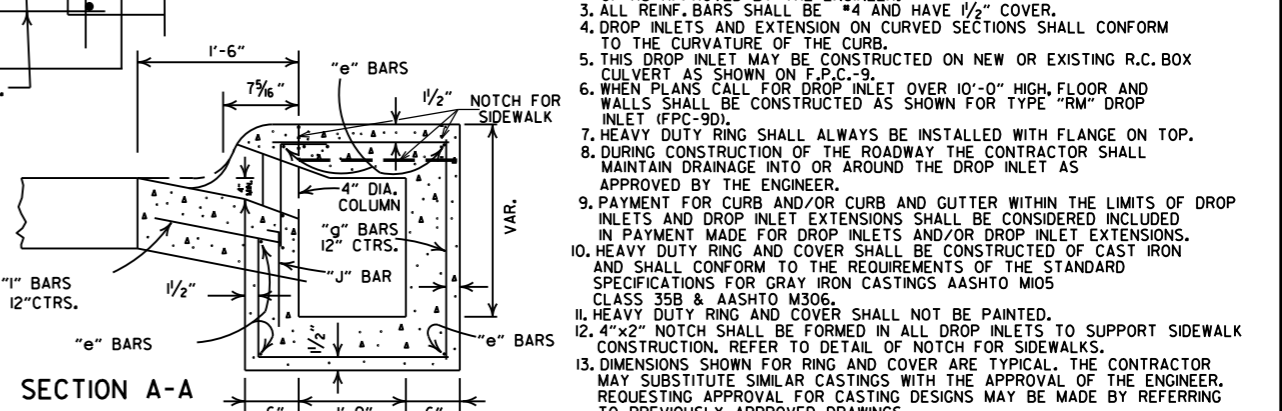
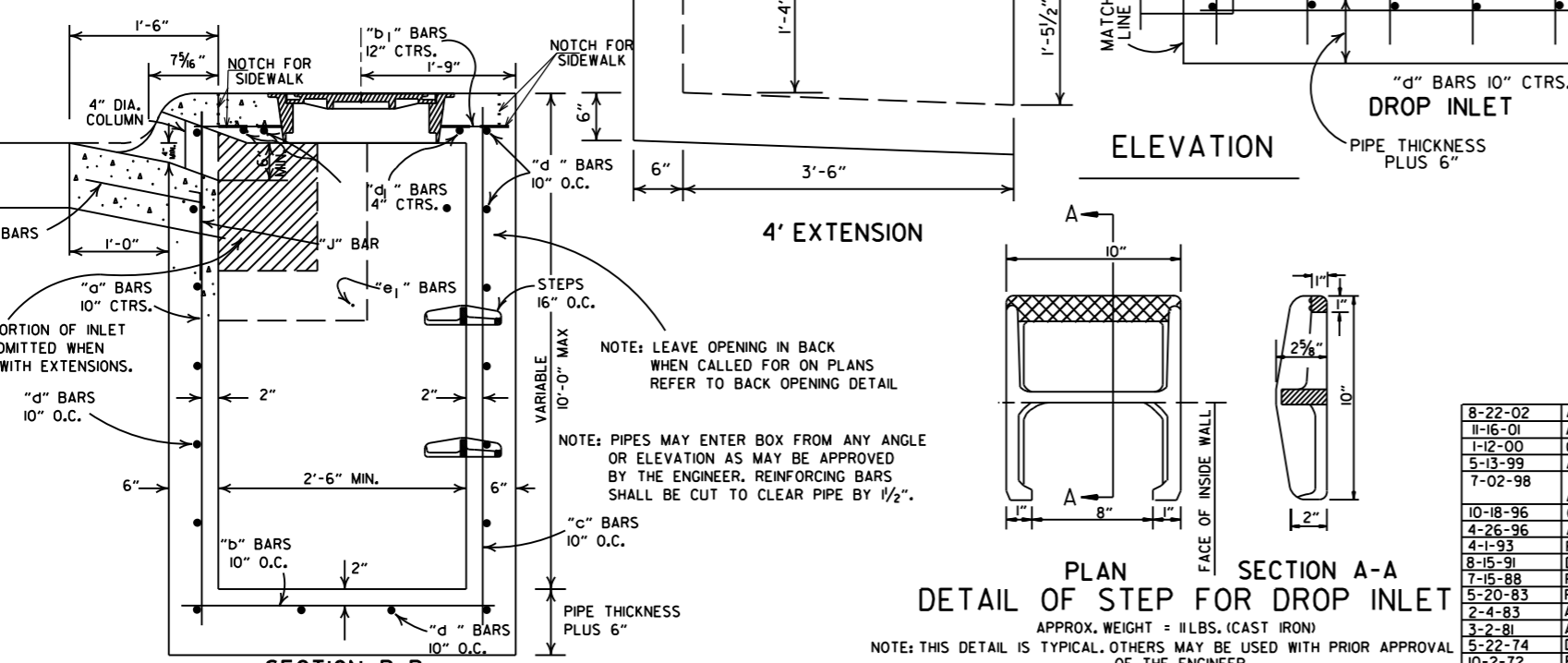
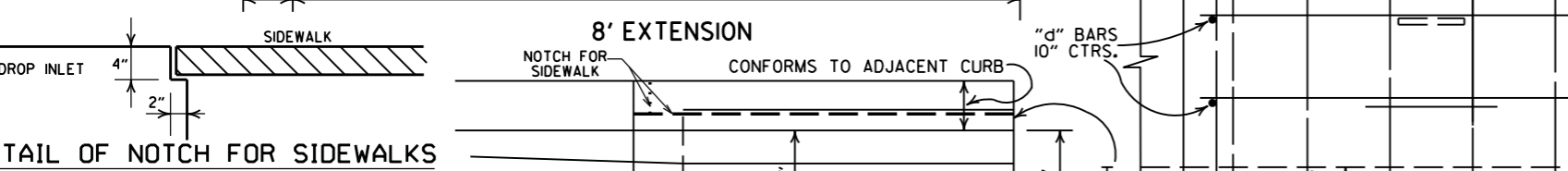
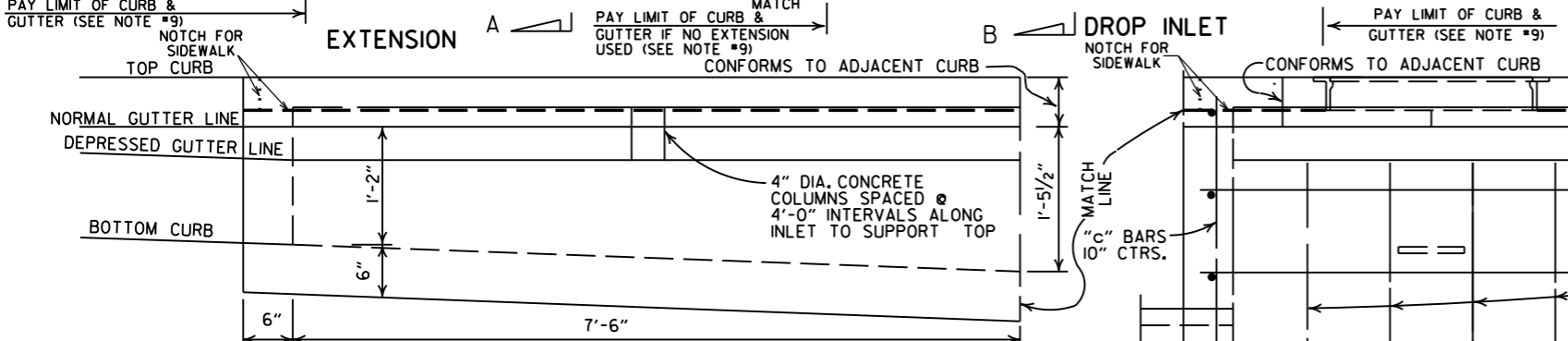
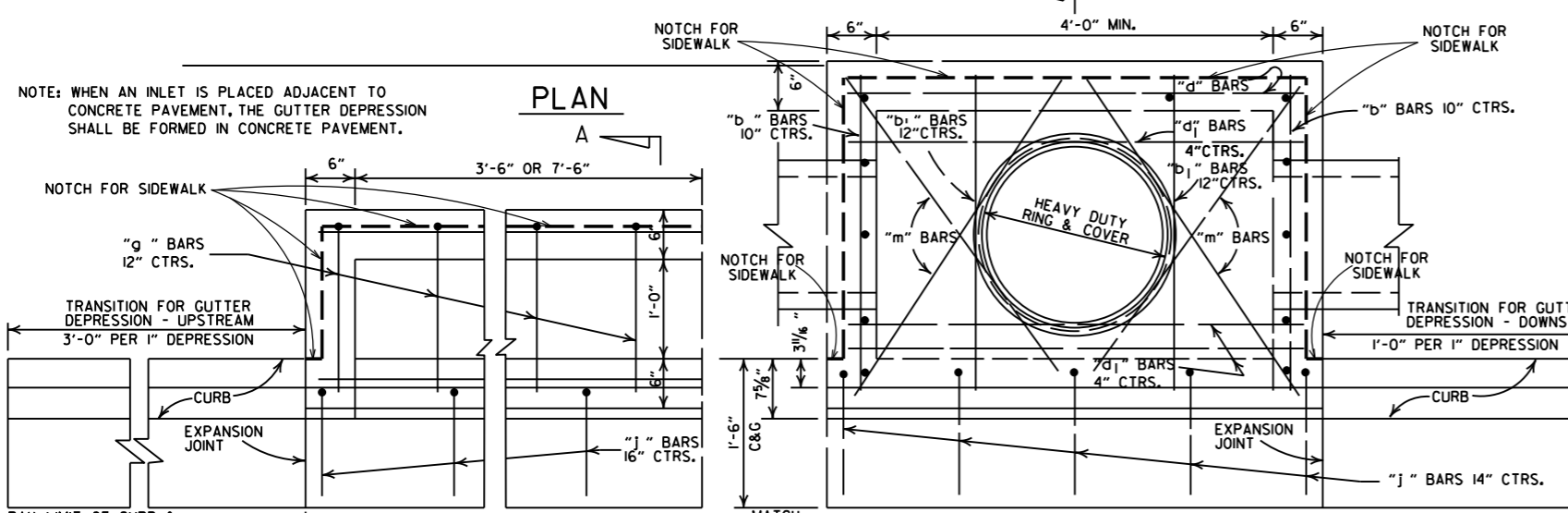
BACK OPENING

WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE C).



HEAVY DUTY RING & COVER

- APPROXIMATE TOTAL WEIGHT = 333 LBS.
- ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
 - STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
 - ALL REINF. BARS SHALL BE #4 AND HAVE 1/2" COVER.
 - DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
 - THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
 - WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (FPC-9D).
 - HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
 - DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
 - PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
 - HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
 - HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
 - 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
 - DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.



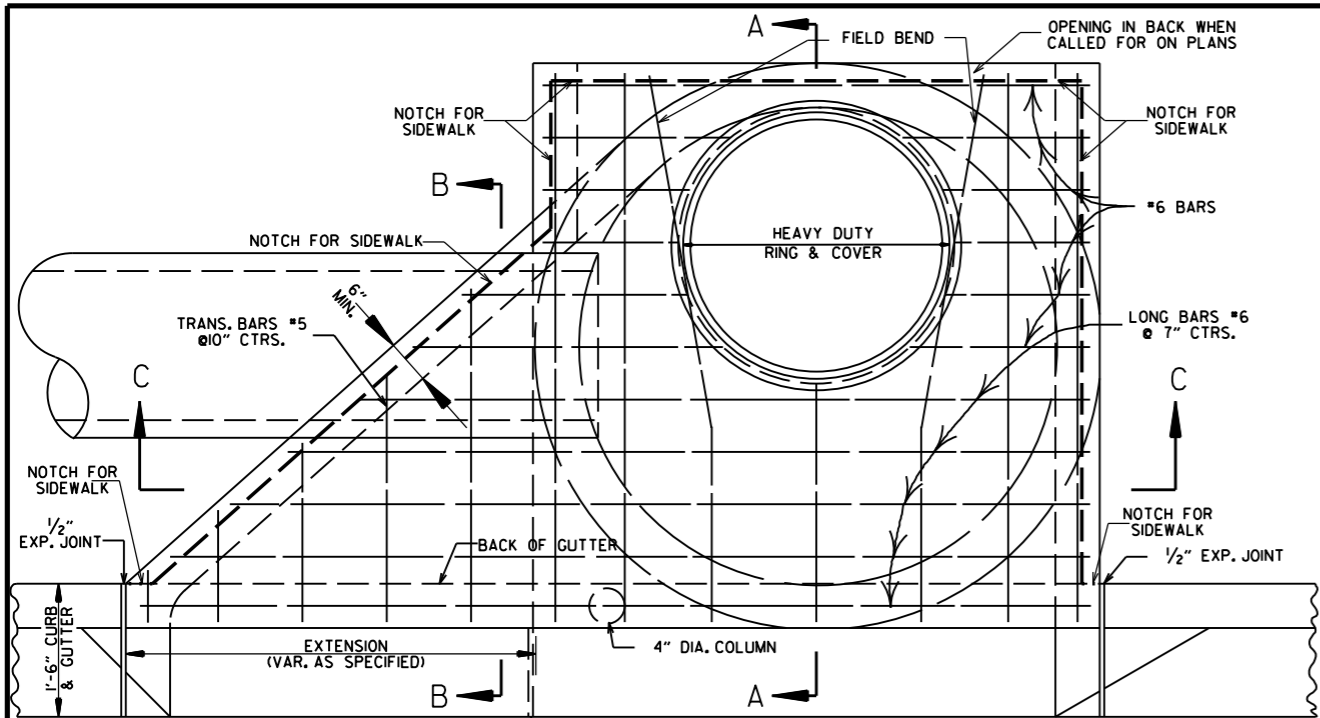
DATE	REV.	REVISION	DATE FILMED
8-22-02		ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01		ADDED NOTE 13; REVISED SECTION B-B	
1-12-00		CORRECTED DIMENSION ON SECTION B-B & REVISED RING & COVER	
5-13-99		ADDED DETAIL OF NOTCH FOR SIDEWALKS	
7-02-98		REPLACED RING & COVER W/HEAVY DUTY RING & COVER	
		ADDED NOTES 9,10,&11	
10-18-96		CORRECTED SPELLING	
4-26-96		ADDED NOTE 8 & REVISED (4'x8') EXTENSION TITLES	10-18-96
4-1-95		REVISED BACK OPENING & NOTE	
8-15-91		DELETE TYPE IV GRATE	
7-15-88		REVISED STEP DETAIL	
5-20-83		REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83		ADDED GENERAL NOTE NO. 4	
3-2-81		ADDED TYPE IV-A GRATE	
5-22-74		DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72		REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

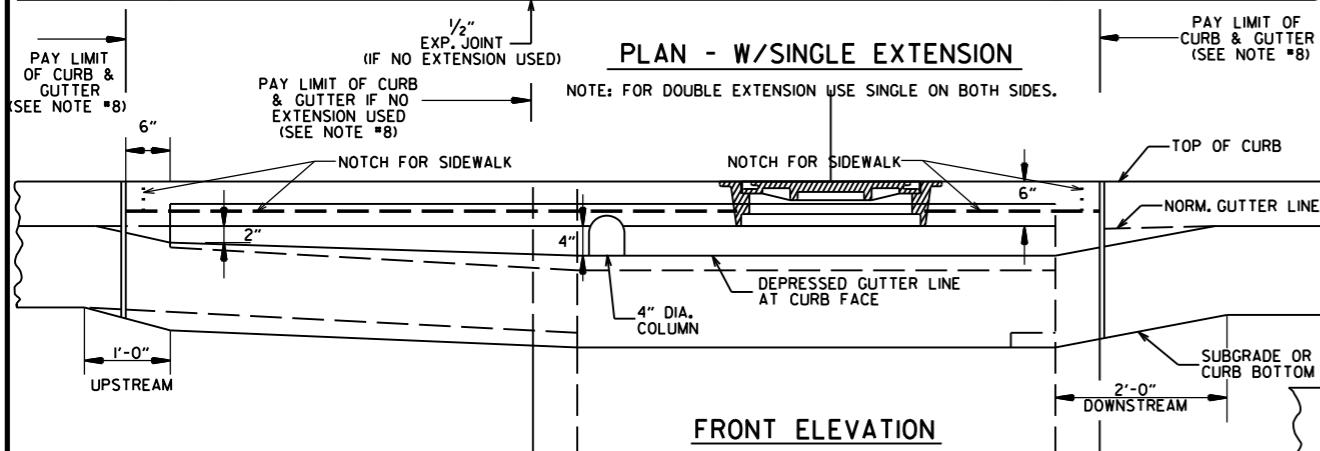
DETAILS OF DROP INLETS (TYPE C)

STANDARD DRAWING FPC-9E

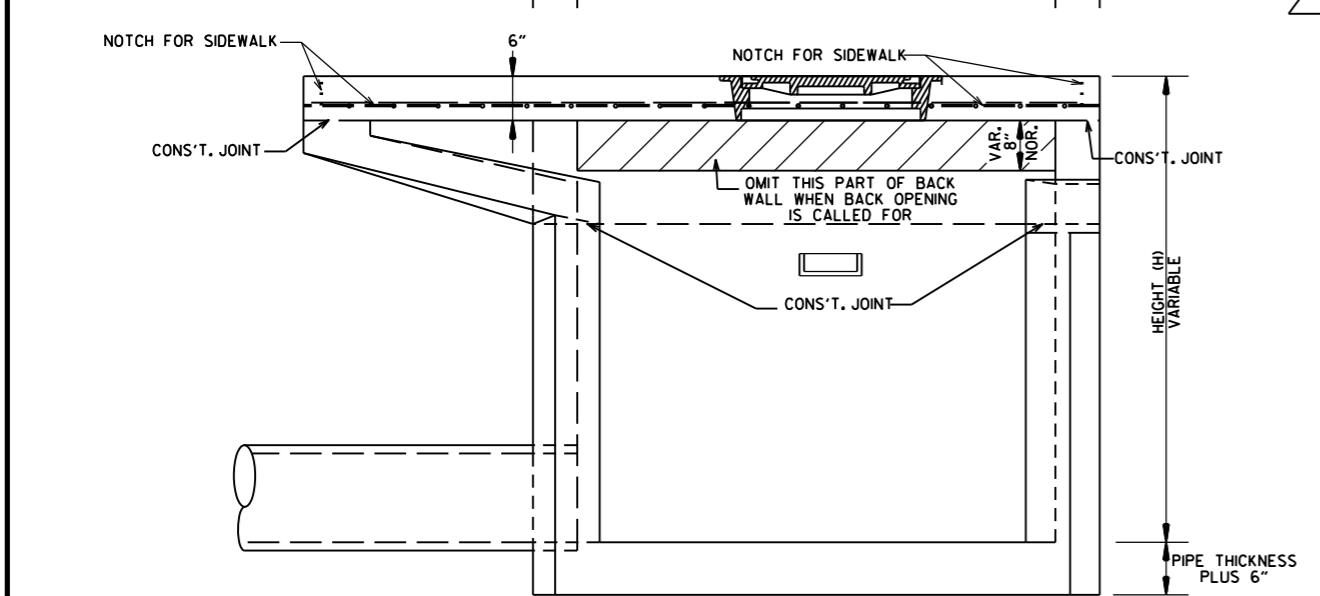
PLAN SECTION A-A
DETAIL OF STEP FOR DROP INLET
APPROX. WEIGHT = 11 LBS. (CAST IRON)
NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.



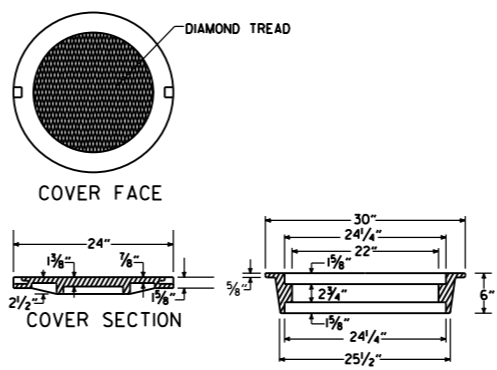
PLAN - W/SINGLE EXTENSION



FRONT ELEVATION



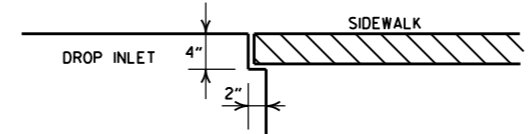
SECTION C-C



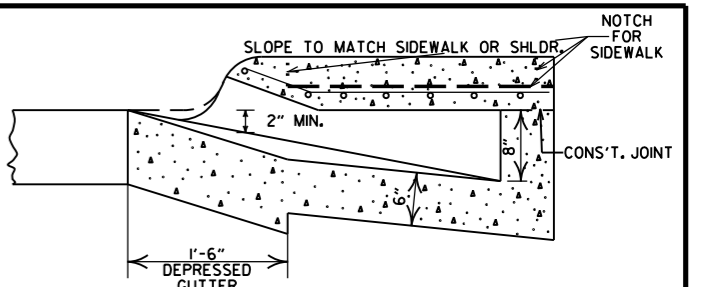
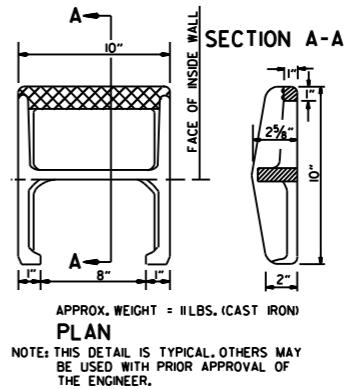
HEAVY DUTY RING & COVER

1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.

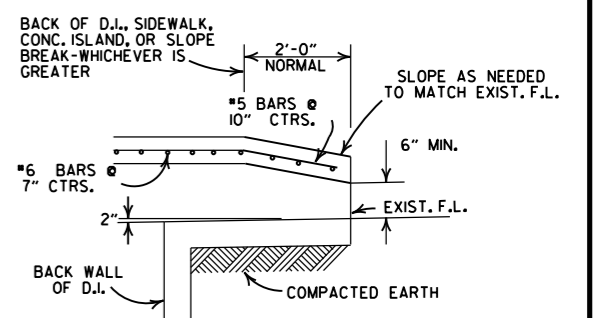
DETAIL OF NOTCH FOR SIDEWALKS



DETAIL OF STEP FOR DROP INLET



SECTION B-B



BACK OPENING

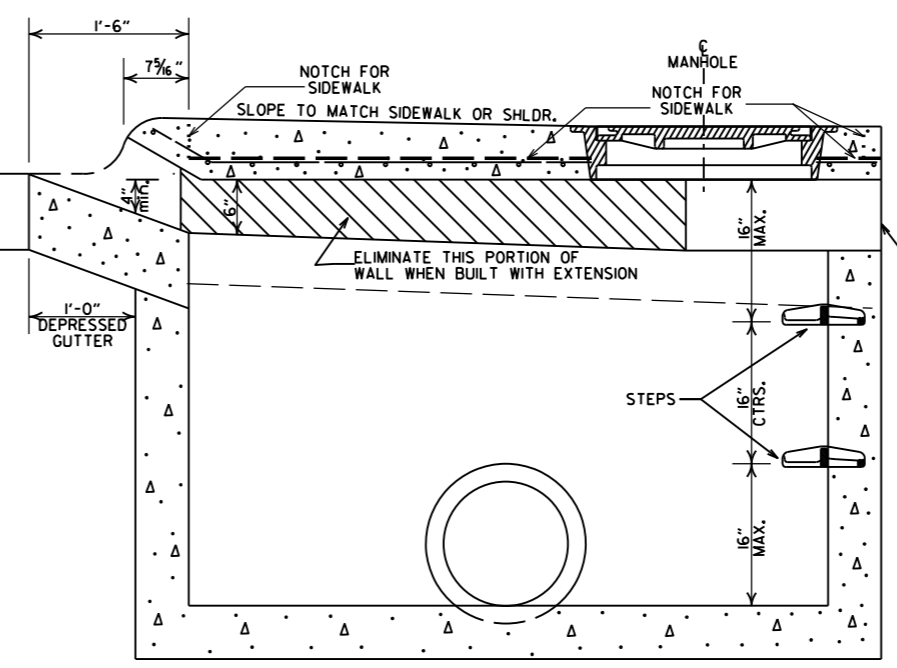
WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE MO).

- GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
 2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OR AS DIRECTED BY THE ENGINEER.
 3. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE MIN. 1/2" COVER.
 4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
 5. 4" DIA. COLUMNS SPACED AT MAX. 4'-0" INTERVALS SHALL BE INSTALLED ALONG INLET AND EXTENSION TO SUPPORT TOP.
 6. BASE AND INLET WALLS SHALL BE CAST MONOLITHICALLY.
 7. THE THROAT SHALL BE CAST INTEGRALLY WITH THE GUTTER.
 8. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
 9. PIPES MAY ENTER DROP INLET FROM ANY ANGLE OR ELEVATION AS MAY BE APPROVED BY THE ENGINEER.
 10. APPROPRIATE SIZE TYPE C DROP INLETS MAY BE SUBSTITUTED FOR TYPE MO DROP INLETS AS APPROVED BY THE ENGINEER. PAYMENT TO BE AS DROP INLET (TYPE MO).
 11. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
 12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
 13. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

LEAVE OPENING IN BACK WHEN CALLED FOR ON PLANS REFER TO BACK OPENING DETAIL

MINIMUM WALL THICKNESS			
DIA. OF D.I.	DIA. OF OUTLET PIPE	CAST IN PLACE	PRECAST
4" I.D.	12" THRU 27"	6"	5"
5" I.D.	30" THRU 42"	8"	6"
6" I.D.	48" THRU 54"	8"	7"

SECTION A-A

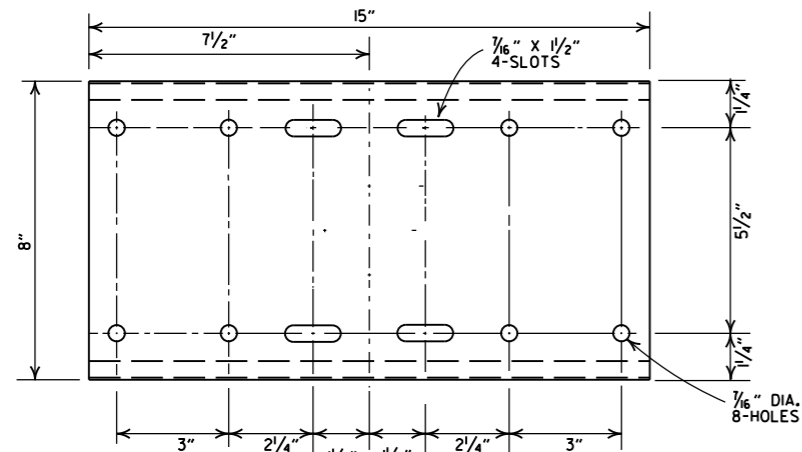


DATE	REVISIONS	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13	
1-12-00	REVISED HEAVY DUTY RING & COVER	
5-13-99	ADDED NOTCH DETAIL FOR SIDEWALKS	
7-02-98	REP. NOTE 8, REV. PLAN DET., REV. PICTURE FOR NEW RING & COVER, ADDED HEAVY DUTY RING & COVER AND DETAIL OF STEP FOR DROP INLET	
4-26-96	ADDED NOTE 11 AND OPENING DIMENSION	
10-12-95	CORRECTED #6 BAR SPACING	
7-20-95	CORRECTED DIAMETER OF D.I. IN BOX	
2-2-95	TYPE C TO TWO (OPEN BACK DETAIL)	
11-3-94	REVISED GENERAL NOTES	
4-1-93	REV. BACK OPEN DETAIL & NOTE	11-3-94
8-15-91	REVISED NOTES 11, 12 & ADDED BK. OPEN DETAIL	4-1-93
11-30-89	ADDED NOTE NO. 12	8-15-91
8-23-89	ADDED NOTE 8 MINIMUM WALL THICKNESS	11-30-89
7-15-88	ADDED EXTEND NOTE TO SECTION A-A	513-2-22-89
1-14-87	MODIFIED WALL THICKNESS	639-7-15-88
6-12-87	ISSUED	783-1-14-87
		4-6-87

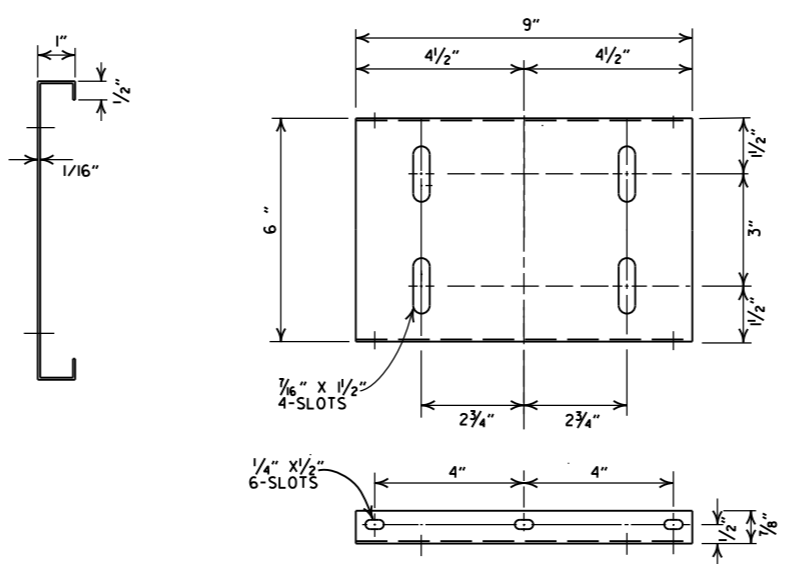
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET (TYPE MO)

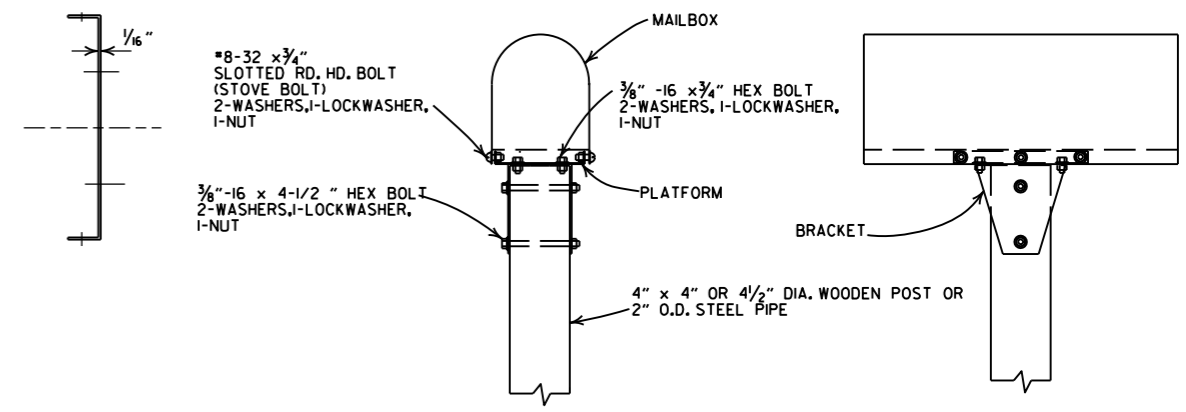
STANDARD DRAWING FPC-9M



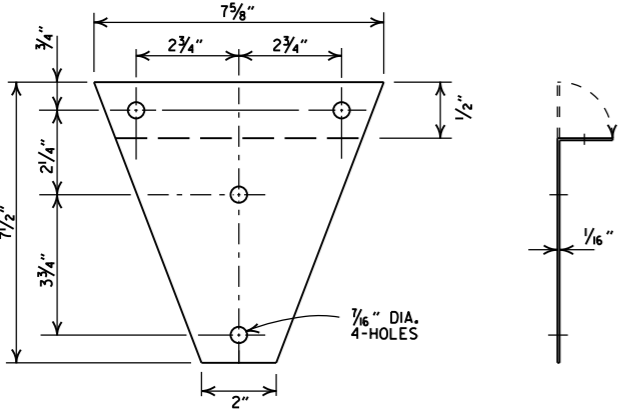
SHELF



PLATFORM

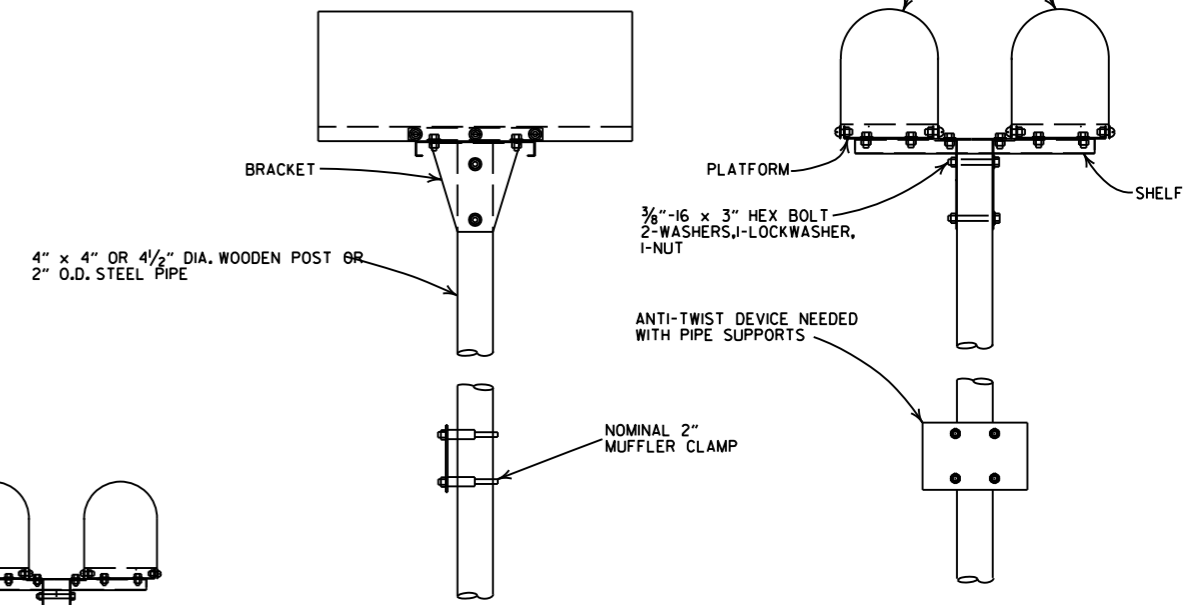


SINGLE INSTALLATION

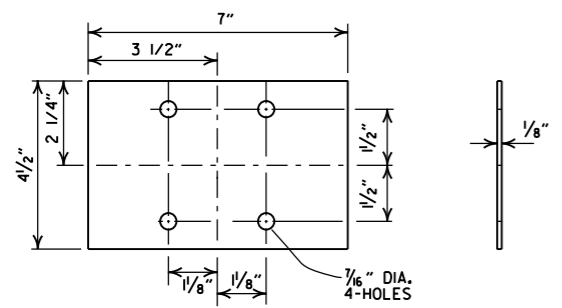


BRACKET

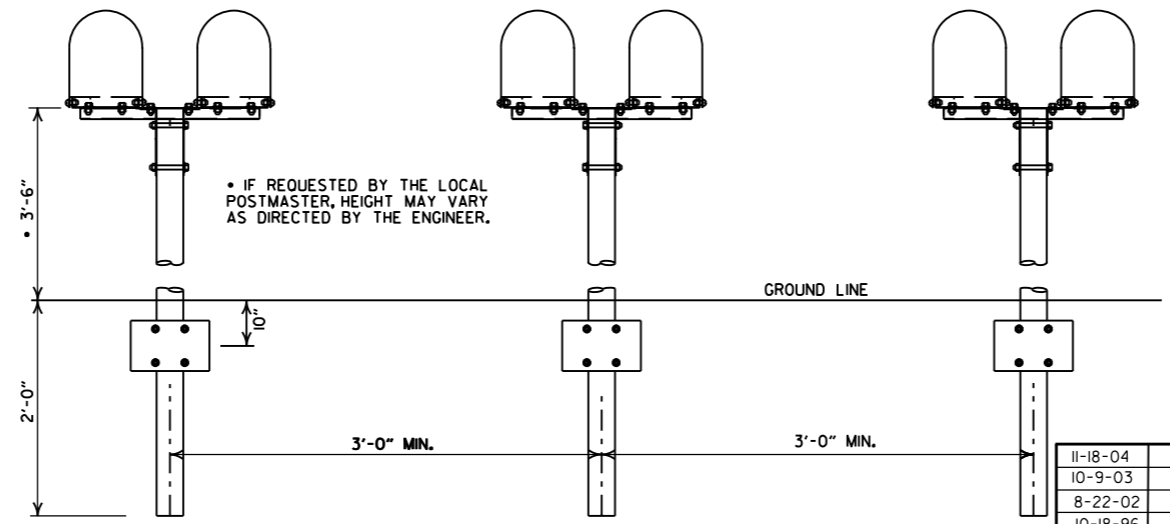
- GENERAL NOTES**
1. MAILBOX POSTS MAY BE WOOD OR METAL. WOOD POSTS SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH SECTION 637.02 OF THE STANDARD SPECIFICATIONS.
 2. ANTI-TWIST PLATES SHALL BE USED ONLY ON METAL POSTS.
 3. MAILBOX SHELF, BRACKET & PLATFORM SHALL BE GALVANIZED OR PAINTED STEEL, HOWEVER TREATED WOOD MAY BE USED WITH WOODEN POSTS. THE WOODEN SHELF, BRACKET & PLATFORM SHALL BE A MINIMUM OF 3/4" THICK AND SHALL BE ASSEMBLED WITH BOLTS OF THE APPROPRIATE LENGTH WITH SIX 8 x 3/4" FLATHEAD WOOD SCREWS USED TO ATTACH THE MAILBOX TO THE PLATFORM.
 4. THE MAILBOX SHELF AND PLATFORM THAT IS SHOWN IS FOR STANDARD SIZE MAILBOXES, THE SHELF AND PLATFORM SIZE SHALL BE MODIFIED TO FIT MAILBOXES OF A DIFFERENT SIZE.
 5. METAL PIPE FOR MAILBOX SUPPORT SHALL BE 2" OUTSIDE DIAMETER STEEL WITH A WALL THICKNESS OF 0.145" AND A WEIGHT OF 2.72 LBS PER FT. OUTSIDE DIAMETER AND WEIGHT SHALL HAVE A TOLERANCE OF +/- 5% ACCORDING TO AASHTO M 181.
 6. MAILBOX SUPPORT SYSTEM DIFFERING FROM THOSE SHOWN MAY BE USED, PROVIDED THEY ARE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR MAILBOX SUPPORTS.



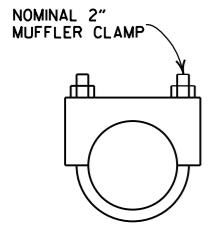
DOUBLE INSTALLATION



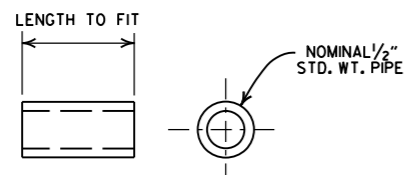
ANTI-TWIST PLATE



SPACING FOR MULTIPLE POST INSTALLATION



CLAMP



SPACER

DATE	FILMED	REVISION
11-18-04		REVISED NOTES
10-9-03		REVISED NOTE 6
8-22-02		REVISED NOTE 6
10-18-96		CORRECTED AASHTO
10-1-92		CORRECTED SPELLING
9-26-91		NEW PHONE NUMBER
8-15-91		ADDED NOTE
11-30-89		ADJUSTED HEIGHT & ADDED NOTE
2-16-89		DELETED SLOTS FROM SHELF & PLTF
11-17-88	10-1-92	ADJUSTED DIMENSIONS OF STEEL POSTS
7-15-88	120-7-15-88	ISSUED

ARKANSAS STATE HIGHWAY COMMISSION

MAILBOX DETAILS

STANDARD DRAWING MB-1

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	ARDDOT NOMINAL	AASHTO M 206	ARDDOT NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13½	14
21	26	26	15½	16
24	28½	29	18	18
30	36¼	36	22½	23
36	43¾	44	26¾	27
42	51½	51	31¾	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87½	87
120	154	154	96¾	97
132	168¾	169	106½	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(f)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

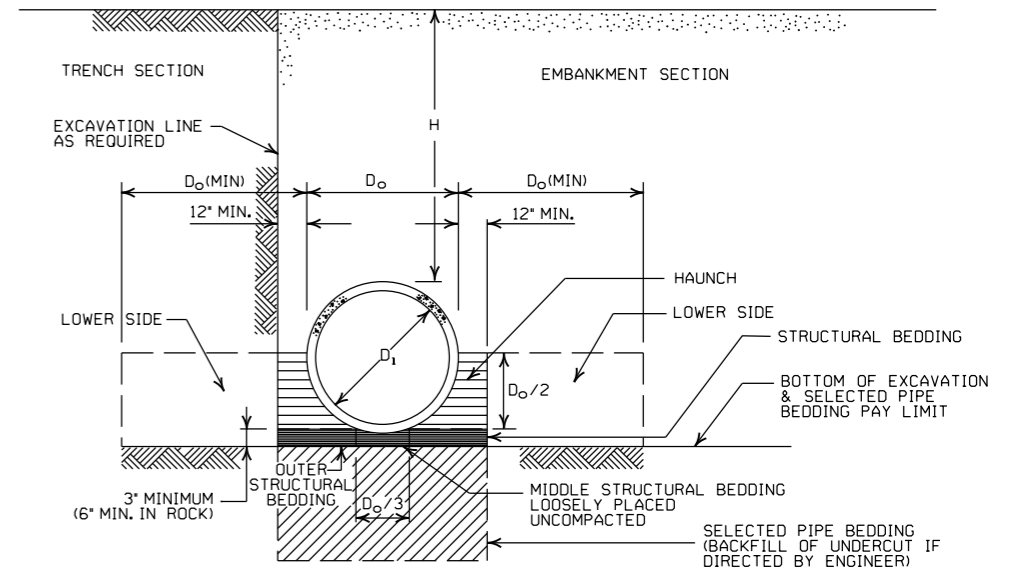
- LEGEND -

- D_i = NORMAL INSIDE DIAMETER OF PIPE
- D_o = OUTSIDE DIAMETER OF PIPE
- H = FILL COVER HEIGHT OVER PIPE (FEET)
- MIN. = MINIMUM
- (Symbol) = UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3**	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170. R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPALLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE			
	CLASS III	CLASS IV	CLASS V	CLASS V
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
TYPE 2 OR TYPE 3	FEET	
	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
TYPE 2	13	21
TYPE 3	10	16

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION	
CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	
STANDARD DRAWING	PCC-1

CORRUGATED STEEL PIPE (ROUND)

PIPE DIAMETER (INCHES)	MINIMUM COVER TOP OF PIPE TO TOP OF GROUND "H" (FEET)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)				
		METAL THICKNESS (INCHES)				
		0.064	0.079	0.109	0.138	0.168
2 3/8 INCH BY 1/2 INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM						
12	1	84	91			
15	1	67	73			
18	1	56	61			
24	1	42	46	59		
30	2	34	36	47		
36	2		30	39	41	
42	2		43	67	70	73
48	2		37	58	61	64
3 INCH BY 1 INCH OR 5 INCH BY 1 INCH CORRUGATION RIVETED, WELDED, BOLTED, OR HELICAL LOCK-SEAM						
36	1	48	60	88	118	
42	1	41	51	72	102	
48	1	36	45	64	77	85
54	2	32	40	59	71	79
60	2	29	36	53	64	71
66	2	26	33	47	58	64
72	2	24	30	44	53	59
78	2		28	41	49	54
84	2		26	38	45	51
90	2		24	35	43	45
96	2		22	33	40	44
102	2			31	38	42
108	2			30	35	39
114	2			28	34	37
120	2			27	32	35

CORRUGATED ALUMINUM PIPE (ROUND)

PIPE DIAMETER (INCHES)	MINIMUM COVER TOP OF PIPE TO TOP OF GROUND "H" (FEET)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)				
		METAL THICKNESS IN INCHES				
		0.060	0.075	0.105	0.135	0.164
2 3/8 INCH BY 1/2 INCH CORRUGATION RIVETED OR HELICAL LOCK-SEAM						
12	1	45	45			
18	2	30	30	52		
24	2	22	22	39	41	
30	2		18	31	32	34
36	2.5		15	26	27	28
42	2			43	43	44
48	2			40	41	43
54	2			35	37	38
60	2				33	34
66	2					31
72	2					29

CORRUGATED METAL PIPE ARCHES

EQUIV. DIA. (INCHES)	PIPE DIMENSION SPAN X RISE (INCHES)	MINIMUM CORNER RADIUS (INCHES)	STEEL				ALUMINUM			
			MIN. THICKNESS REQUIRED (INCHES)	MIN. HEIGHT OF FILL, "H" (FT.)		MIN. THICKNESS REQUIRED (INCHES)	MIN. HEIGHT OF FILL, "H" (FT.)			
				INSTALLATION			INSTALLATION			
				TYPE 1	TYPE 1		TYPE 1	TYPE 1		
2 3/8 INCH BY 1/2 INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM										
15	17x13	3	0.064	2	15	0.060	2	15		
18	21x15	3	0.064	2	15	0.060	2	15		
21	24x18	3	0.064	2.25	15	0.060	2.25	15		
24	28x20	3	0.064	2.5	15	0.075	2.5	15		
30	35x24	3	0.079	3	12	0.075	3	12		
36	42x29	3 1/2	0.079	3	12	0.105	3	12		
42	49x33	4	0.079	3	12	0.105	3	12		
48	57x38	5	0.109	3	13	0.135	3	13		
54	64x43	6	0.109	3	14	0.135	3	14		
60	71x47	7	0.138	3	15	0.135	3	14		
66	77x52	8	0.168	3	15					
72	83x57	9	0.168	3	15	0.164	3	15		
3 INCH BY 1 INCH OR 5 INCH BY 1 INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM										
INSTALLATION										
TYPE 2 TYPE 1 TYPE 2 TYPE 1										
36	40x31	5	0.079	3	2	12	15			
42	46x36	6	0.079	3	2	13	15			
48	53x41	7	0.079	3	2	13	15			
54	60x46	8	0.079	3	2	13	15			
60	66x51	9	0.079	3	2	13	15			
66	73x55	12	0.079	3	2	15	15			
72	81x59	14	0.079	3	2	15	15			
78	87x63	14	0.079	3	2	15	15			
84	95x67	16	0.109	3	2	15	15			
90	103x71	16	0.109	3	2	15	15			
96	112x75	18	0.109	3	2	15	15			
102	117x79	18	0.109	3	2	15	15			
108	128x83	18	0.138	3	2	15	15			

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. COMPLETE STRUCTURAL BACKFILL OPERATION BY WORKING FROM SIDE TO SIDE OF THE PIPE. THE SIDE TO SIDE STRUCTURAL BACKFILL DIFFERENTIAL SHALL NOT EXCEED 24 INCHES OR 1/3 THE SIZE OF THE PIPE, WHICHEVER IS LESS.

NOTE: STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF METAL PIPE.

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL ③

③ SM-3 WILL NOT BE ALLOWED.

EQUIVALENT METAL THICKNESSES AND GAUGES

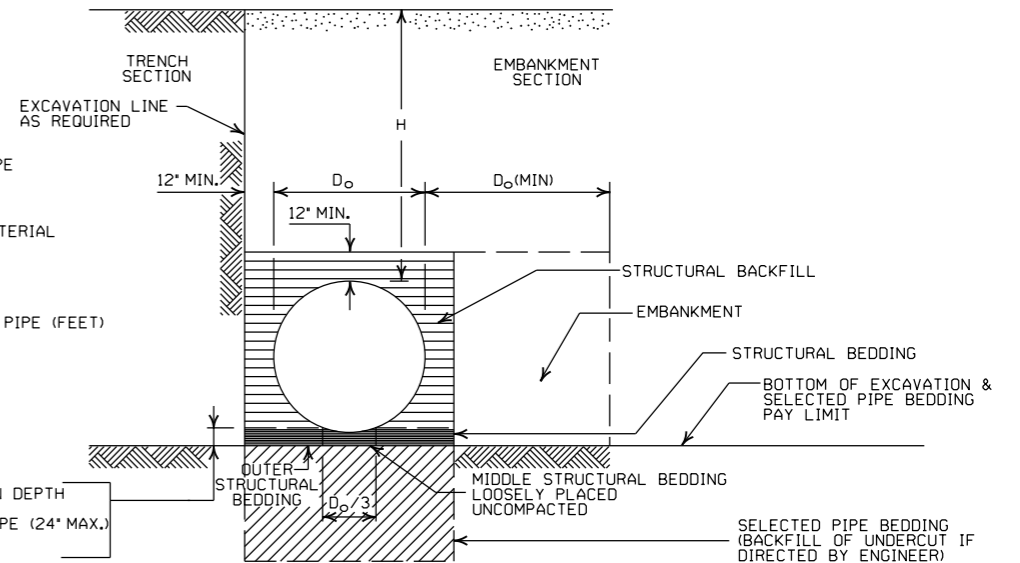
METAL THICKNESS IN INCHES			GAUGE NUMBER
STEEL			
ZINC COATED	UNCOATED	ALUMINUM	
0.064	0.0598	0.060	16
0.079	0.0747	0.075	14
0.109	0.1046	0.105	12
0.138	0.1345	0.135	10
0.168	0.1644	0.164	8

① FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.

② WHERE THE STANDARD 2 2/3 x 1/2 CORRUGATION AND GAUGE IS SPECIFIED FOR A GIVEN DIAMETER, A PIPE OF THE SAME DIAMETER WITH A 3' x 1' OR 5' x 1' CORRUGATION MAY BE SUBSTITUTED, PROVIDING IT IS GAUGED FOR A FILL HEIGHT CONDITION EQUAL TO OR GREATER THAN THE MAXIMUM FILL HEIGHT CONDITION FOR THE SPECIFIED GAUGE AND CORRUGATION.

LEGEND

- D_o = OUTSIDE DIAMETER OF PIPE
- MAX. = MAXIMUM
- MIN. = MINIMUM
- (Symbol) = STRUCTURAL BACKFILL MATERIAL
- (Symbol) = UNDISTURBED SOIL
- EQUIV. DIA. = EQUIVALENT DIAMETER
- H = FILL COVER HEIGHT OVER PIPE (FEET)



EMBANKMENT AND TRENCH INSTALLATIONS

1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. INSTALLATION TYPE 1 OR 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE (ROUND).
3. INSTALLATION TYPE 1 SHALL BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 2 3/8" x 1/2" CORRUGATION.
4. INSTALLATION TYPE 1 OR 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 3" x 1" OR 5" x 1" CORRUGATION.

GENERAL NOTES

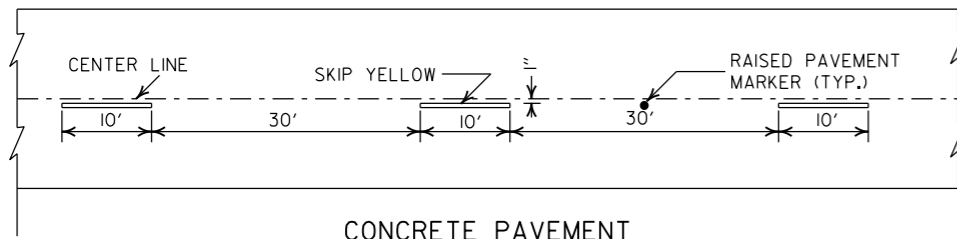
1. METAL PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. METAL PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. METAL PIPE CULVERT MATERIALS AND INSTALLATIONS SHALL CONFORM TO SECTION 606 AND JOB SPECIAL PROVISION "METAL PIPE".
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
9. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1	
12-15-11	REVISED FOR LRFD DESIGN SPECS	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

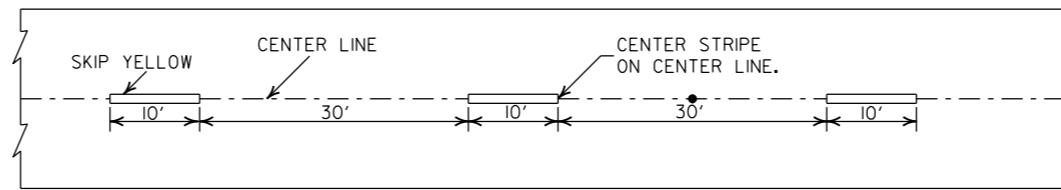
ARKANSAS STATE HIGHWAY COMMISSION

METAL PIPE CULVERT
FILL HEIGHTS & BEDDING

STANDARD DRAWING PCM-1

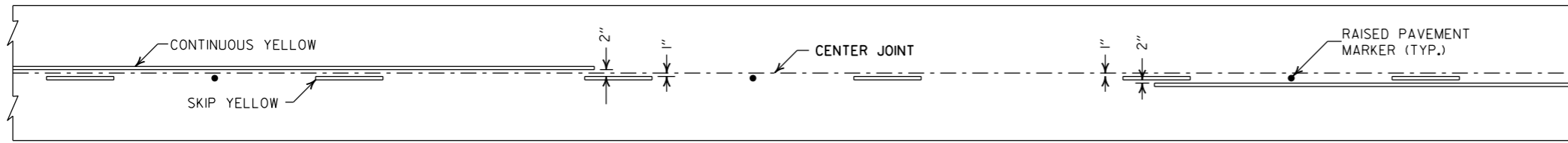


CONCRETE PAVEMENT

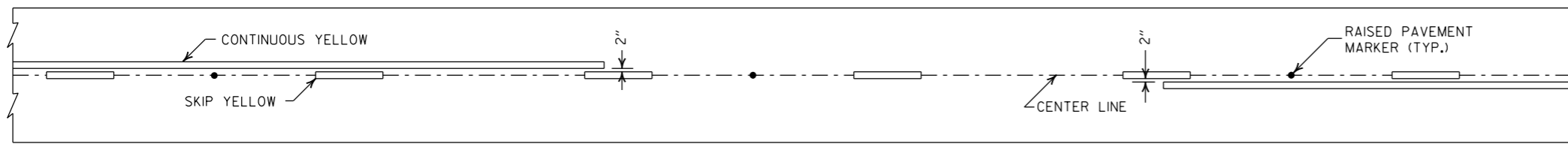


ASPHALT PAVEMENT

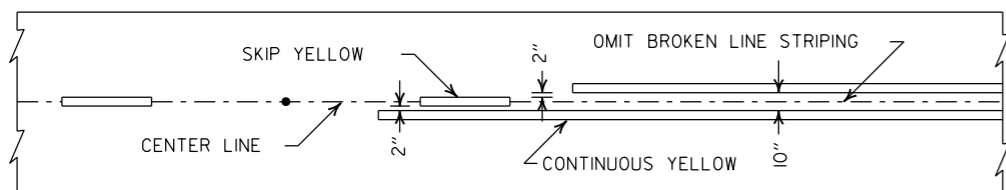
BROKEN LINE STRIPING



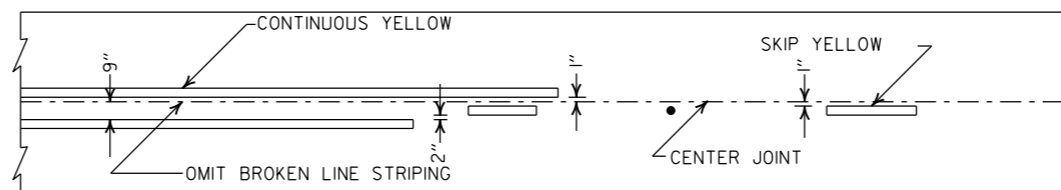
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT

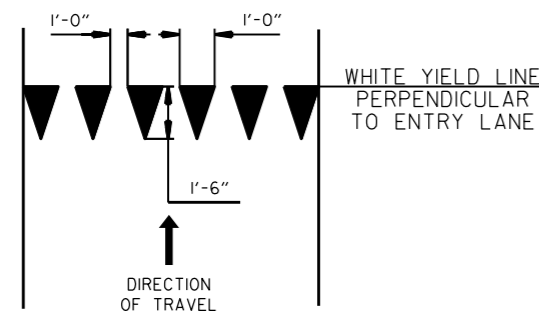


ASPHALT PAVEMENT

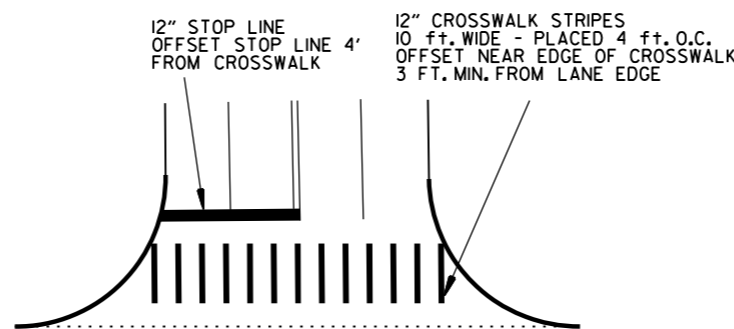


CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

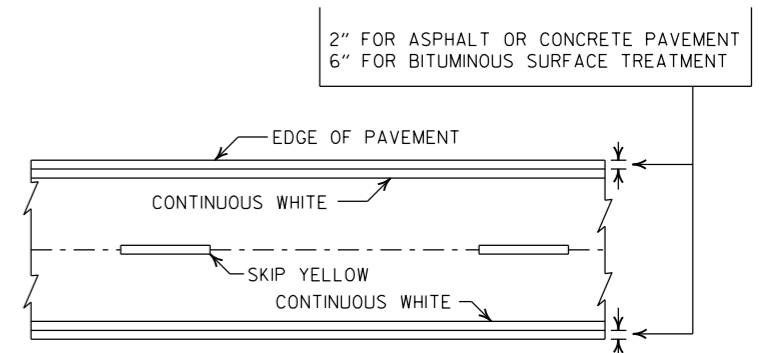


YIELD LINE DETAIL

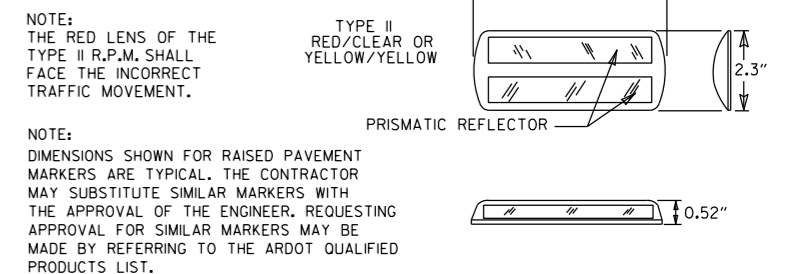


CROSSWALK AND STOP LINE DETAILS

- NOTES:
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
 2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
 3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.



PAVEMENT EDGE LINE MARKING





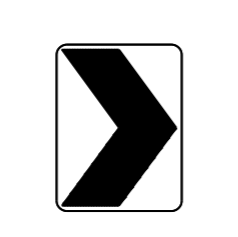



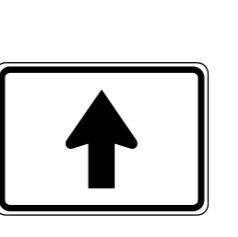
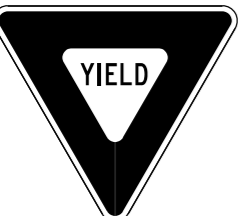

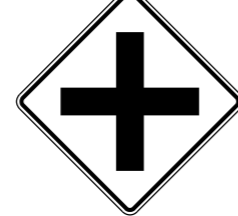



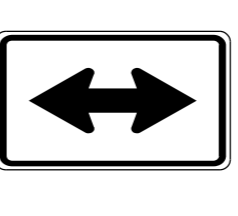


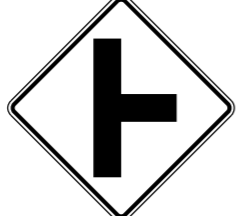



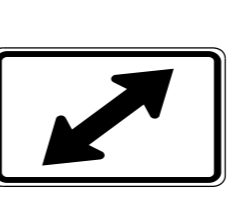

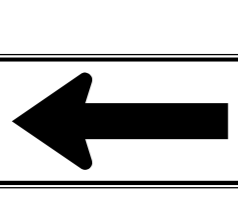
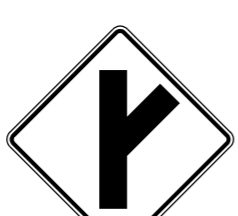

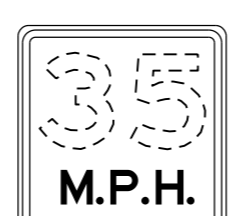
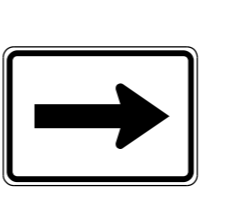
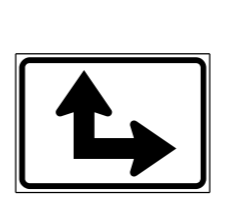
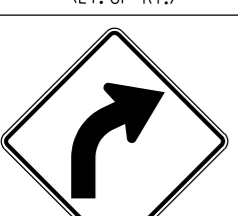
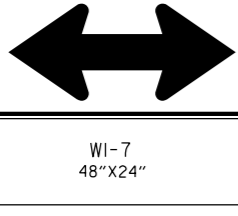
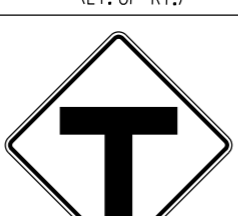

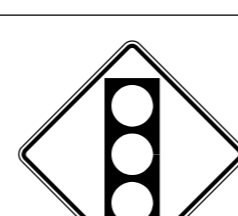

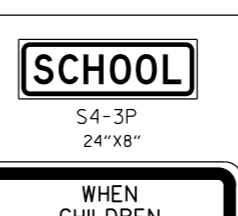

DETAIL OF STANDARD RAISED PAVEMENT MARKERS

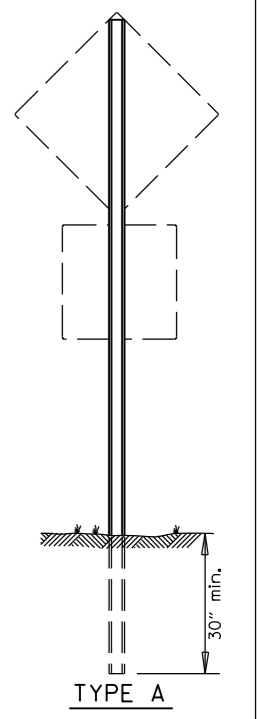
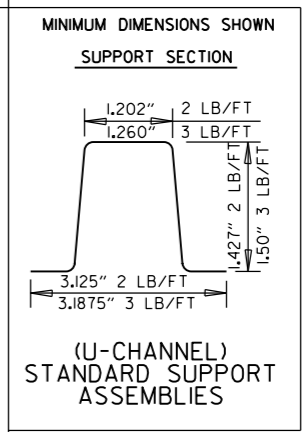
DATE	REVISION	FILMED
2-27-20	REVISED STOP LINE DETAILS	
6-1-17	ADDED YIELD LINE DETAIL	
5-12-16	REVISED LINE WIDTHS, SPACING, & NOTES	
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
11-17-10	REVISED GENERAL NOTES & REMOVED PLOWABLE PVMT MRKRS	
11-18-04	REVISED NOTE 2 & GENERAL NOTES	
8-22-02	ADDED CROSSWALK & STOPBAR DTL.	
7-02-98	ADDED DETAILS OF STD. RAISED PAV'T. MARKERS	
4-26-96	REV. NOTES 3&4; ADDED R.P.M.	
9-30-80	DRAWN	1-9-30-80

ARKANSAS STATE HIGHWAY COMMISSION

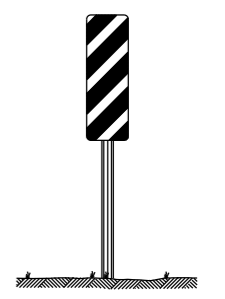
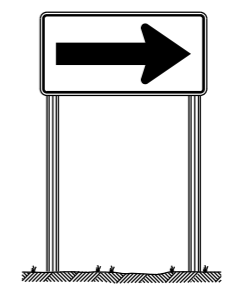
PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

 RI-1 30"x30"	 W1-3 30"x30" (LT. OR RT.)	 W1-8 18"x24"	 W2-5 30"x30"	 W3-1 36"x36"	 W5-1 36"x36"	 M6-3 21"x15"
 RI-2 36"x36"x36"	 W1-4 30"x30" (LT. OR RT.)	 W2-1 30"x30"	 SI-1 36"x36"	 W3-2 36"x36"	 LASSEN 16 COUNTY County Route Marker MI-6 24"x24"	 M6-4 21"x15"
 R2-1 24"x30"	 W1-5 30"x30" (LT. OR RT.)	 W2-2 30"x30"	 NARROW BRIDGE W5-2 36"x36"	 PAVEMENT ENDS W8-3 36"x36"	 NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND. ALL WAY RI-3P 18"x6"	 M6-5 21"x15"
 W1-1 30"x30" (LT. OR RT.)	 W1-6 48"x24"	 W2-3 30"x30" (LT. OR RT.)	 ONE LANE BRIDGE W5-3 36"x36"	 35 M.P.H. W13-IP 18"x18"	 M6-1 21"x15"	 M6-6 21"x15"
 W1-2 30"x30" (LT. OR RT.)	 W1-7 48"x24"	 W2-4 30"x30"	 R X R W10-1 36" DIAMETER	 W3-3 36"x36"	 M6-2 21"x15"	 SCHOOL S4-3P 24"x8"
						 WHEN CHILDREN ARE PRESENT S4-2P 24"x10"



NOTE: LENGTH OF SIGN POSTS SHALL BE DETERMINED SO AS TO PROVIDE FOR MINIMUM VERTICAL CLEARANCES AS CALLED FOR IN THE SPECIFICATIONS PLUS A MINIMUM VERTICAL PENETRATION OF 30" IN THE SOIL.

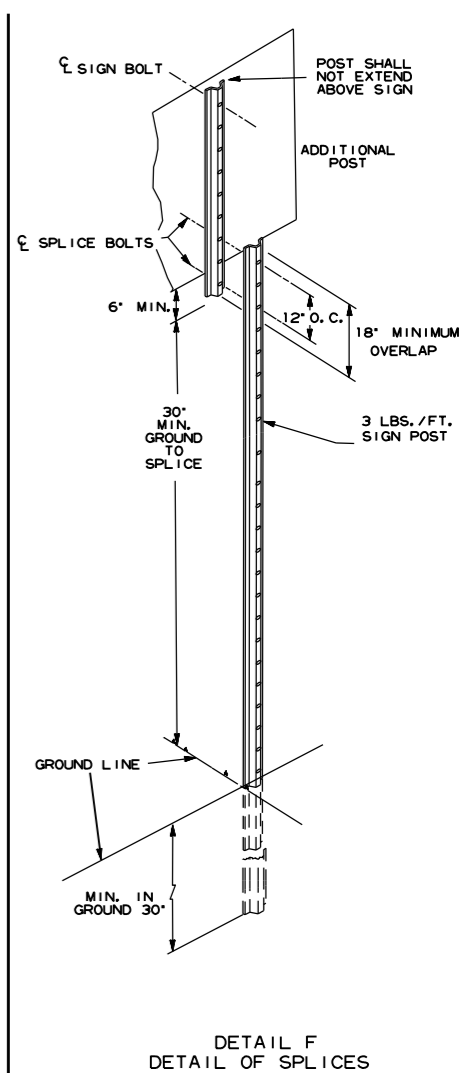
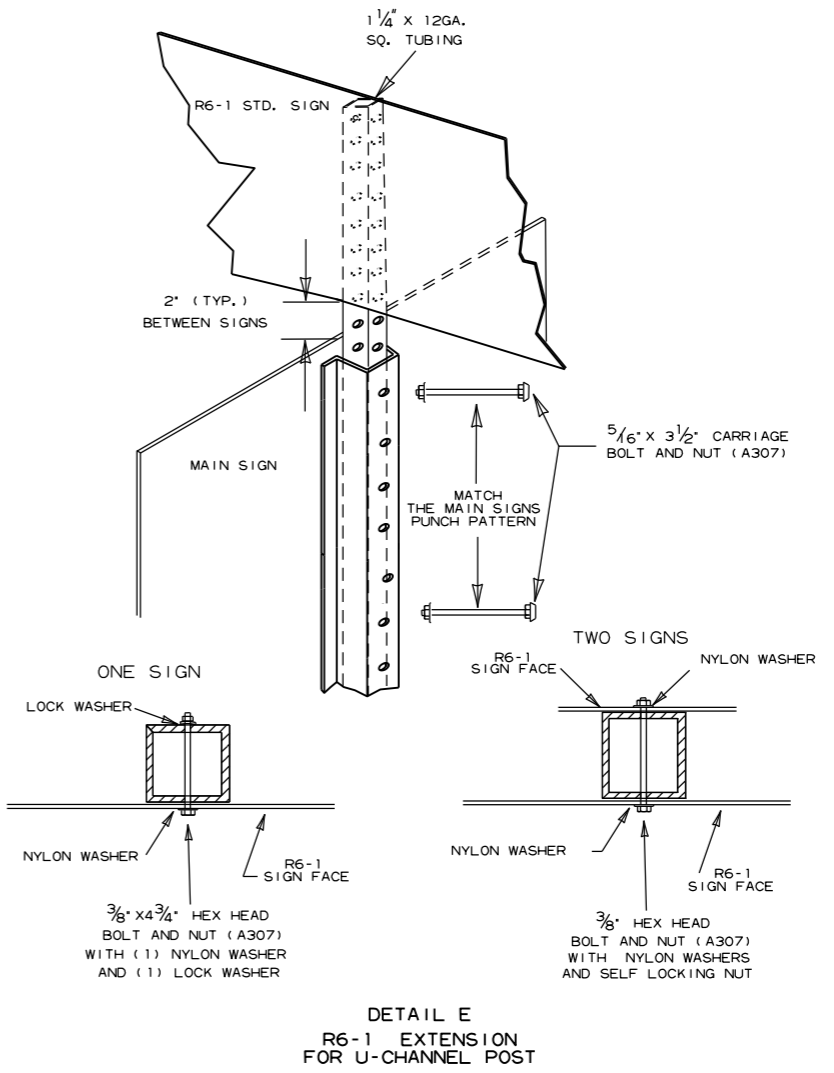
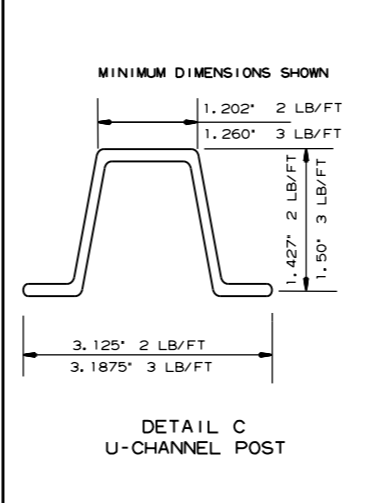
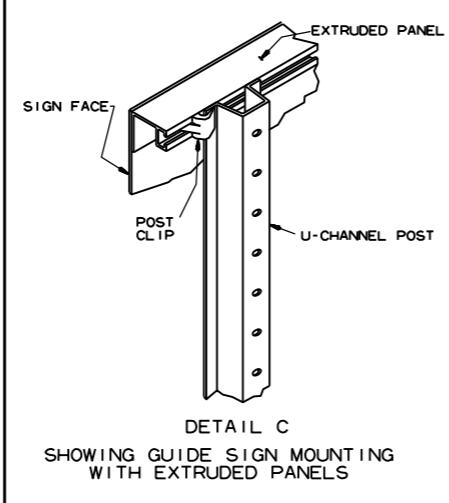
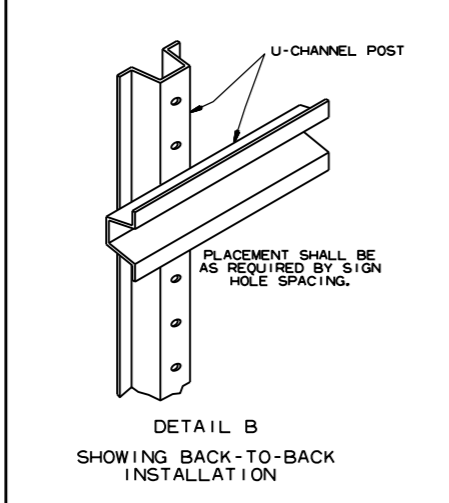
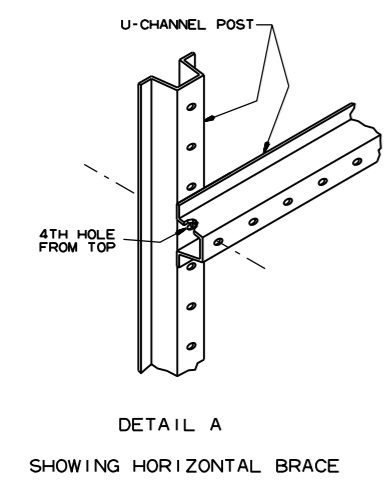
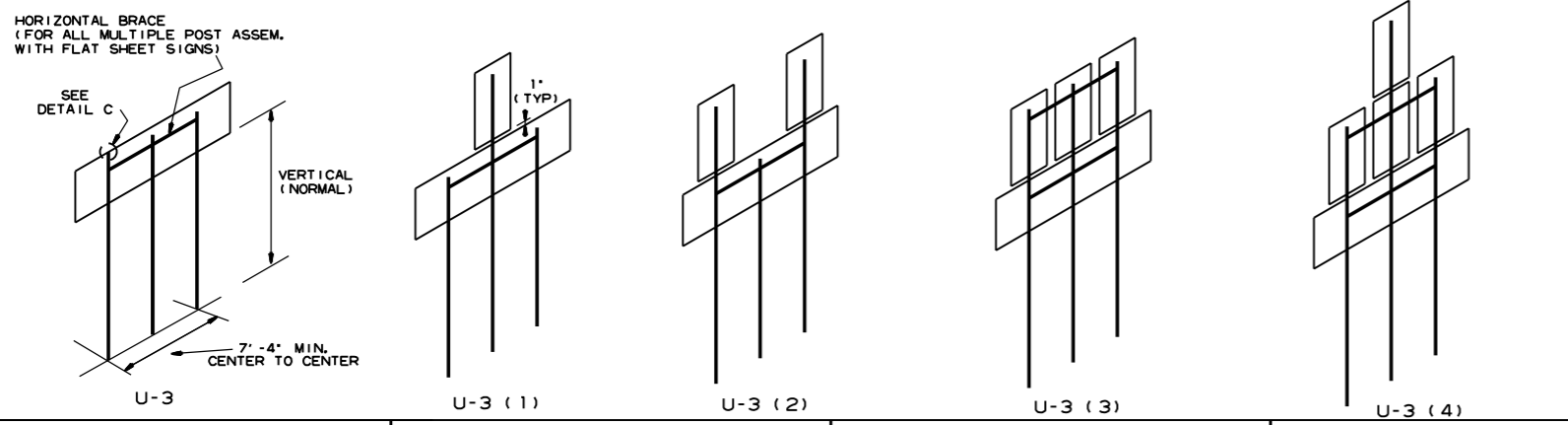
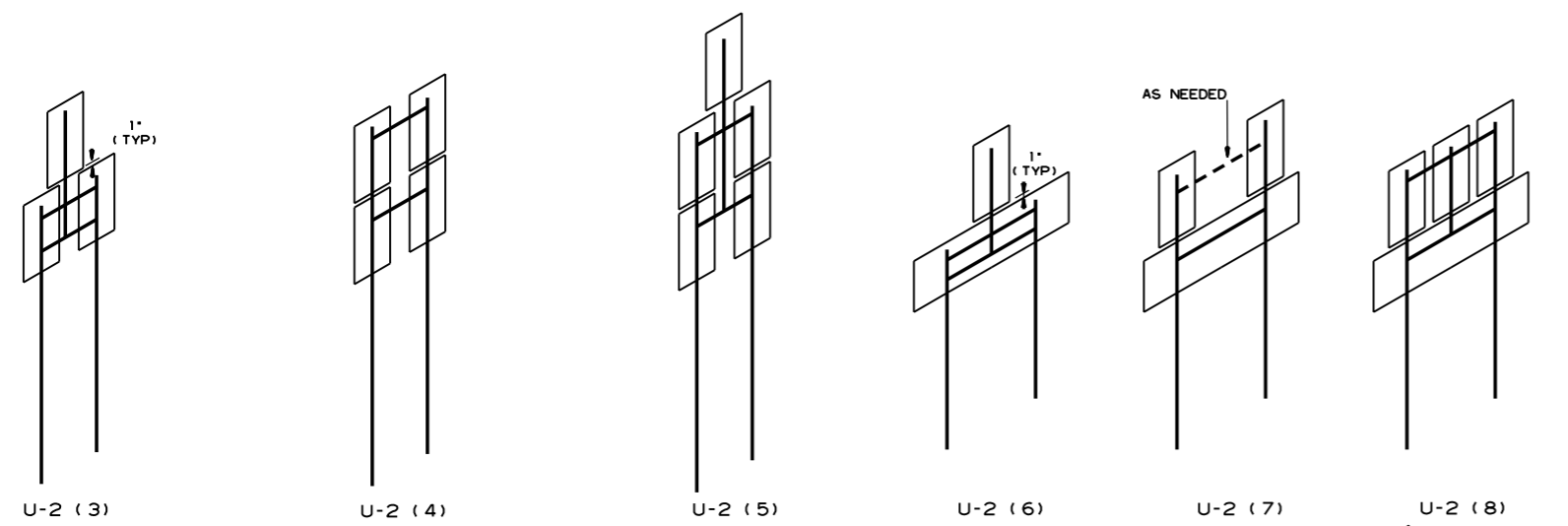
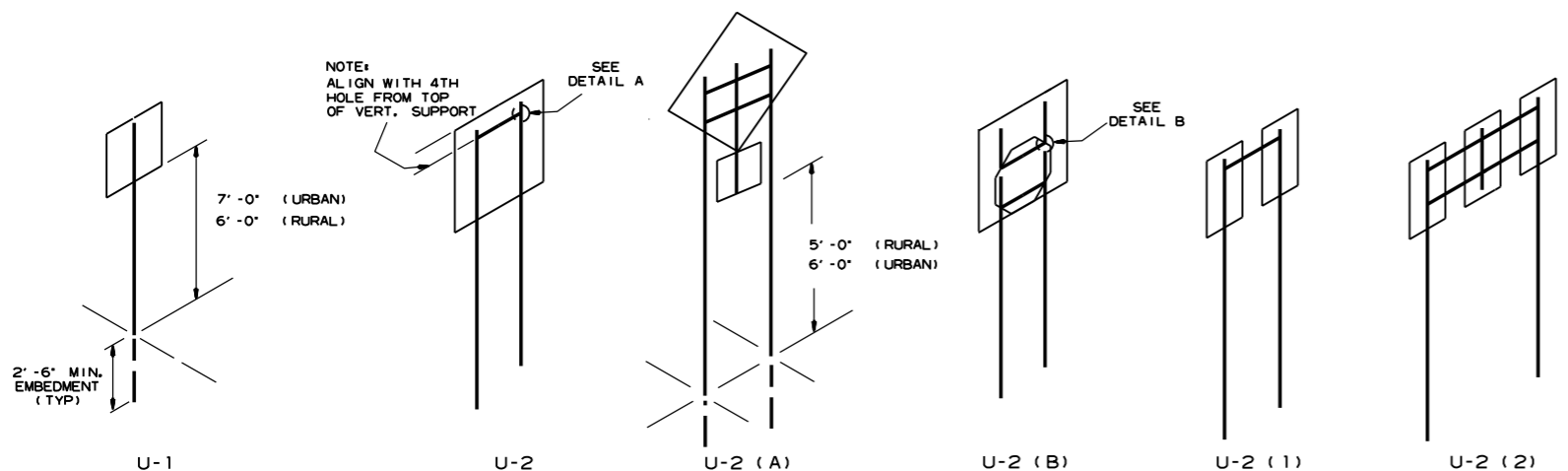


MINIMUM WEIGHT
TYPE A & B = 3 LBS./FT.
TYPE C = 2 LBS./FT.

STANDARD HIGHWAY SIGNS

9-12-13	DELETED JOB NO. BLOCK; REVISED RI-3 TO RI-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED W1-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED W14-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2"-3"; ADDED S4-2 & S4-3	504-5-3-76
8-12-74	REV. HT. TYPE "C" ASSEMBLY	500-8-21-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72
DATE	REVISION	DATE FILMED

SUPPORT ASSEMBLIES
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD HIGHWAY SIGNS
AND SUPPORT ASSEMBLIES
STANDARD DRAWING SHS-1



NOTES:

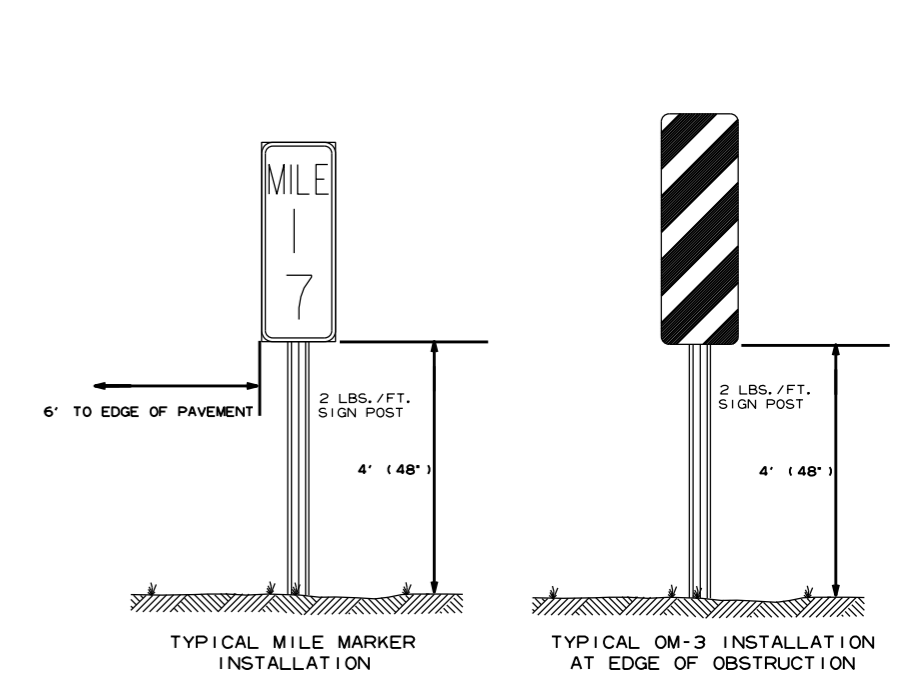
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

NORMAL INSTALLATIONS WILL REQUIRE 3/8" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

THE POST FOR *TYPE U* SUPPORTS SHALL BE HOT DIP GALVANIZED.

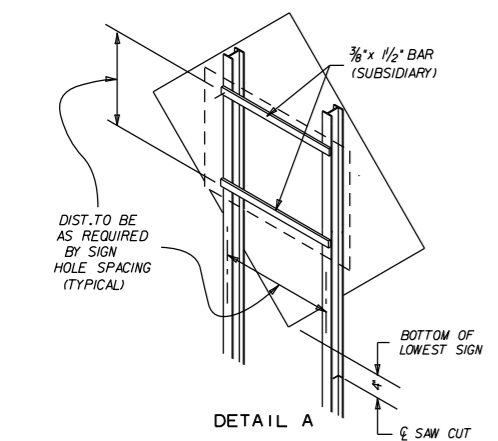


7-25-19	REVISED CARRIAGE BOLT WITH MATERIAL REQUIREMENT	
2-27-14	REVISED NOTES.	
9-12-13	REVISED U-2(3), U-2(6), U-3(1), DETAIL D; ADDED DETAILS E & F; ADDED TYPICAL MARKERS	
10-9-03	REMOVED ROUND POST & REVISED SPACING	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL	6-8-95
2-2-95	REDRAWN	2-2-95
DATE	REVISION	FILMED

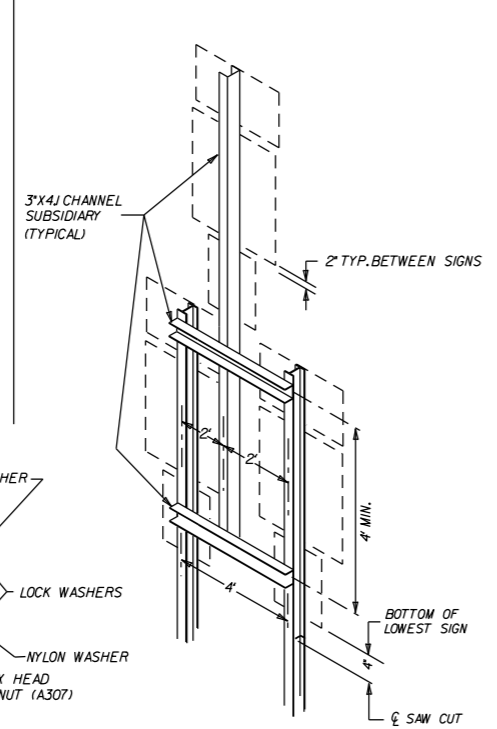
ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

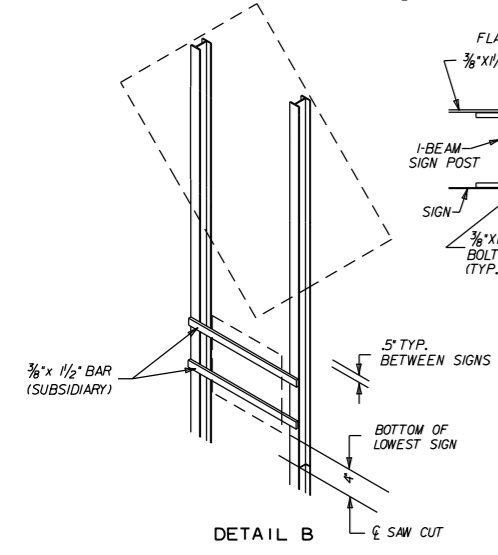
STANDARD DRAWING SHS-2



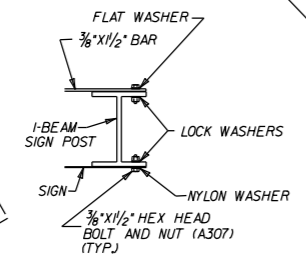
DETAIL A



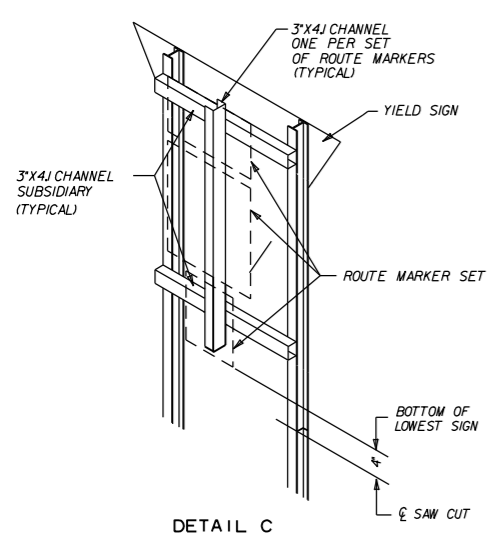
DETAIL D



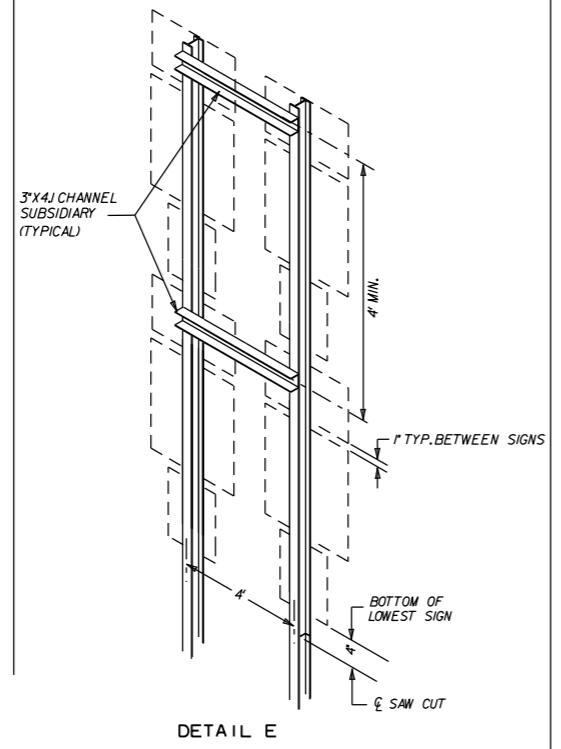
DETAIL B



DETAIL F

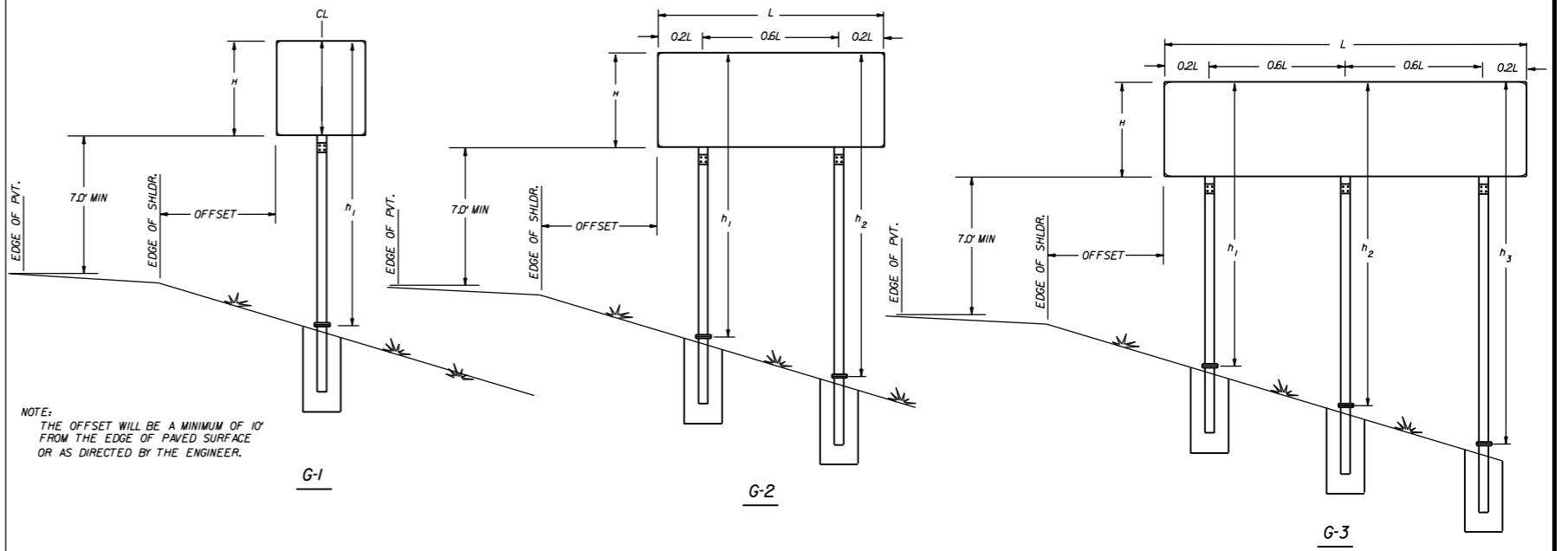


DETAIL C



DETAIL E

NOTE
 ALL ADDITIONAL MOUNTING HARDWARE, BOLTS, NUTS, CHANNELS AND BAR STRAPS REQUIRED TO MOUNT SECONDARY SIGNS WILL BE CONSIDERED TO BE SUPPLEMENTAL TO THE MAIN SIGN SUPPORT SPECIFIED. PAYMENT WILL BE CONSIDERED SUBSIDIARY TO THE MAIN SUPPORT.
 THE GALVANIZED STEEL CHANNEL AND BAR SUPPORTS MAY BE ASTM A-36.
 REFER TO THE P.C. RUTLEDGE FORMULA ON PAGE 58 OF THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS."
 ALL BOLT HOLES SHALL BE 1/8" DIA. UNLESS OTHERWISE SHOWN.

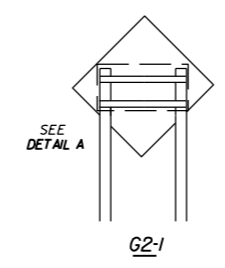


NOTE:
 THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER.

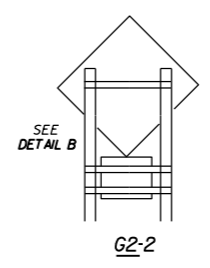
G-1

G-2

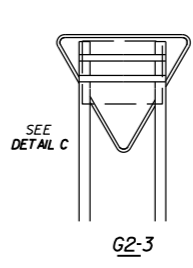
G-3



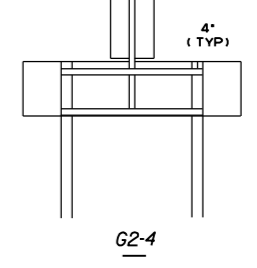
G2-1



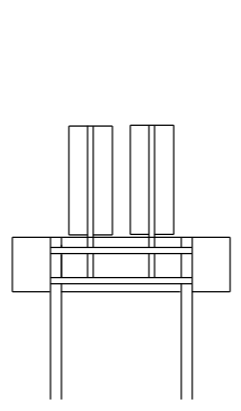
G2-2



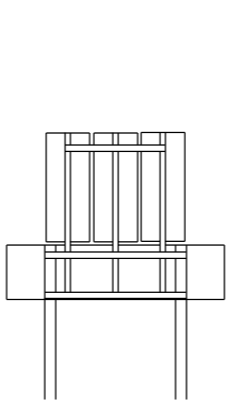
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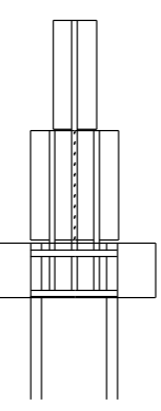
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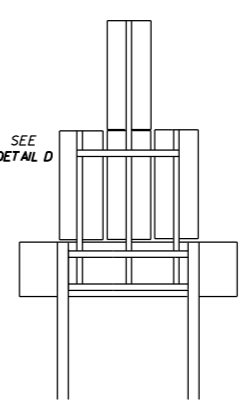
G2-5



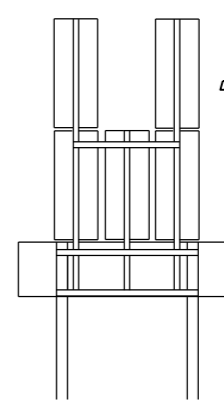
G2-6



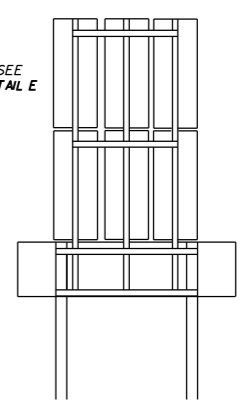
G2-7



G2-8

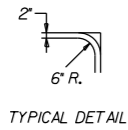


G2-9

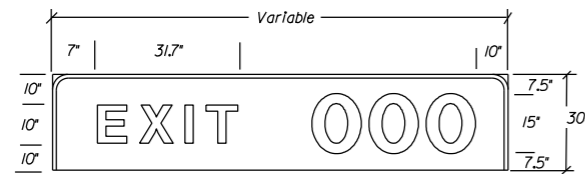


G2-10

ARKANSAS STATE HIGHWAY COMMISSION			
DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS			
STANDARD DRAWING SHS-4			
9-12-13	ISSUED		
DATE	REVISION	FILMED	

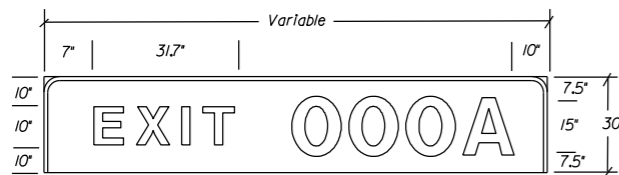


TYPE A



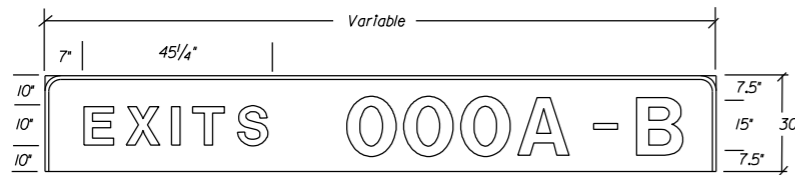
EXIT WITH 1 DIGIT 8"X30"=17.50 SF
 EXIT WITH 2 DIGITS 96"X30"=20.0 SF
 EXIT WITH 3 DIGITS 114"X30"=23.57 SF

TYPE B



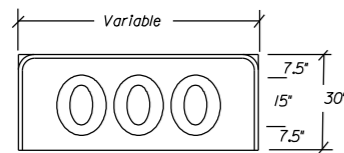
EXIT WITH 1 DIGIT PLUS "A"OR"B" 96"X30"=20.0 SF
 EXIT WITH 2 DIGITS PLUS "A"OR"B" 114"X30"=23.57 SF
 EXIT WITH 3 DIGITS PLUS "A"OR"B" 126"X30"=26.25 SF

TYPE C



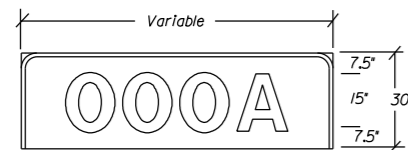
EXITS WITH 1 DIGIT PLUS "A"&"B" 132"X30"=27.50 SF
 EXITS WITH 2 DIGITS PLUS "A"&"B" 150"X30"=31.25 SF
 EXITS WITH 3 DIGITS PLUS "A"&"B" 168"X30"=35.00 SF

TYPE D



1 DIGIT 24"X30"=5.0 SF
 2 DIGITS 42"X30"=8.75 SF
 3 DIGITS 60"X30"=12.50 SF

TYPE E

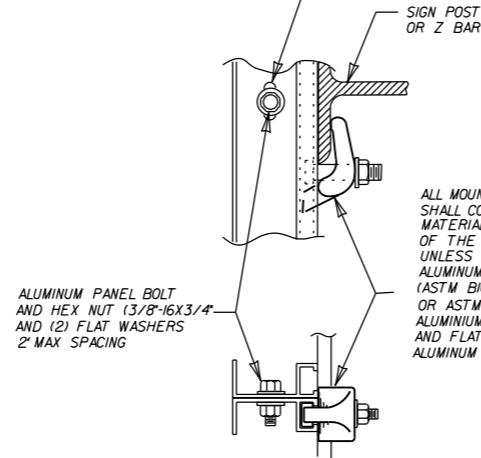


1 DIGIT PLUS "A"OR"B" 42"X30"=8.75 SF
 2 DIGITS PLUS "A"OR"B" 60"X30"=12.50 SF
 3 DIGITS PLUS "A"OR"B" 78"X30"=16.25 SF

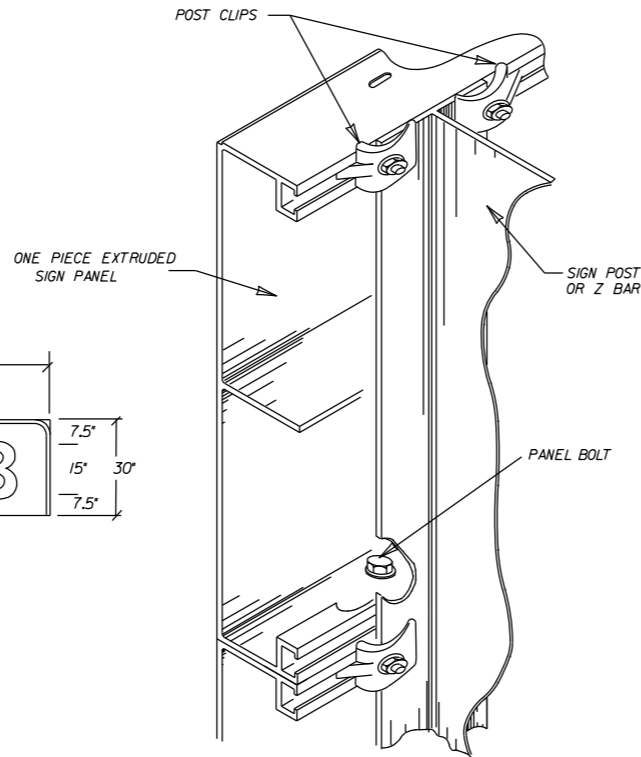
EXIT PANEL DETAILS

NOTE: EXIT NUMBER PANELS SHALL HAVE WHITE LEGENDS AND BORDERS. THE BACK GROUND COLOR WILL BE AS USE SPECIFIES. SHEETING TYPE WILL BE THE SAME AS THE GUIDE SIGN WHICH THE EXIT PANEL IS ATTACHED OR AS SPECIFIED IN THE PLANS. PAYMENT FOR ALL POST CLIPS, BOLTS, AND ANGLES SHALL BE SUBSIDIARY TO THE ITEM "EXIT NUMBER PANEL".

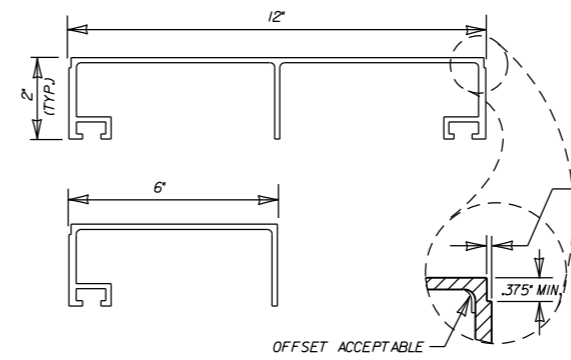
SLOTTED HOLES (7/16" X 7/8")
 DRILLED OR PUNCHED @ 12" O.C.
 BEGINNING 6" FROM ONE END



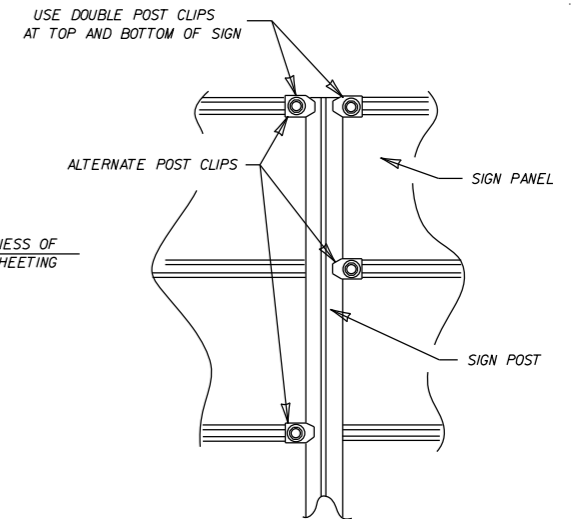
ALL MOUNTING HARDWARE SHALL COMPLY WITH THE MATERIALS SECTION OF 724 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
 ALUMINUM POST CLIP (ASTM B108 ALLOY 356-T61 OR ASTM B26 ALLOY 356-T6)
 ALUMINUM POST CLIP BOLT AND FLAT WASHER (3/8" X 1 3/4")
 ALUMINUM STOP NUT



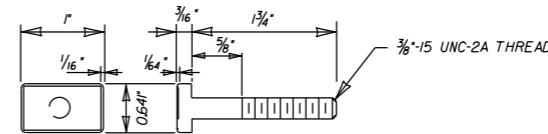
MOUNTING HARDWARE



ONE PIECE EXTRUDED SIGN PANELS

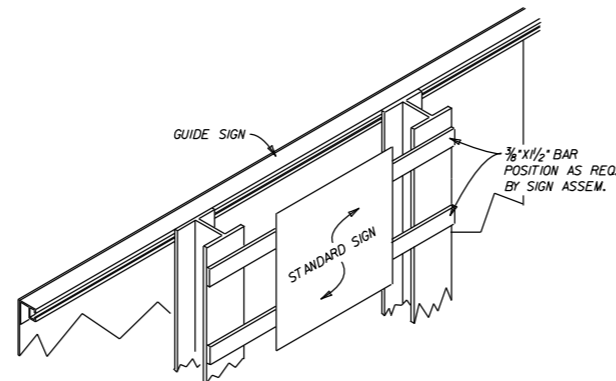
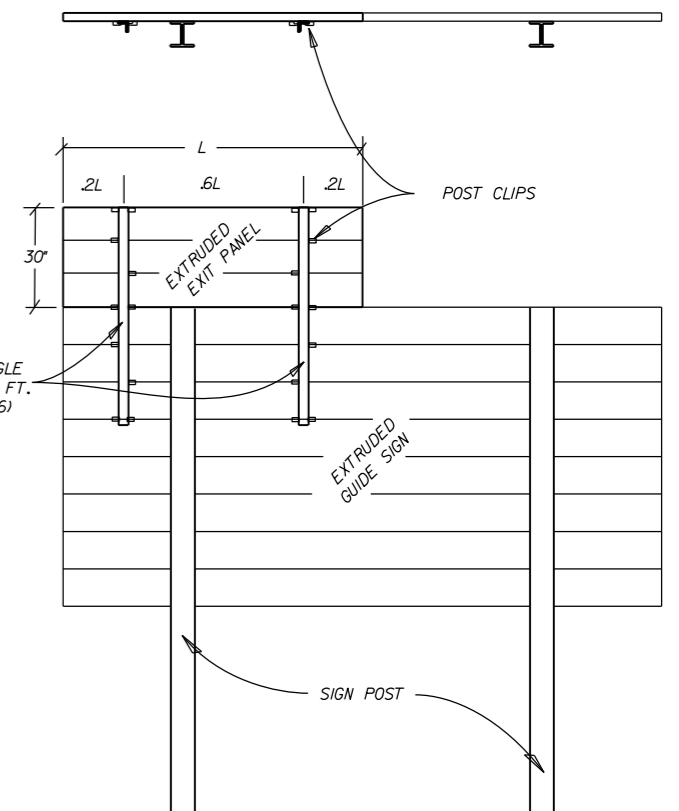


POST CLIP PLACEMENT



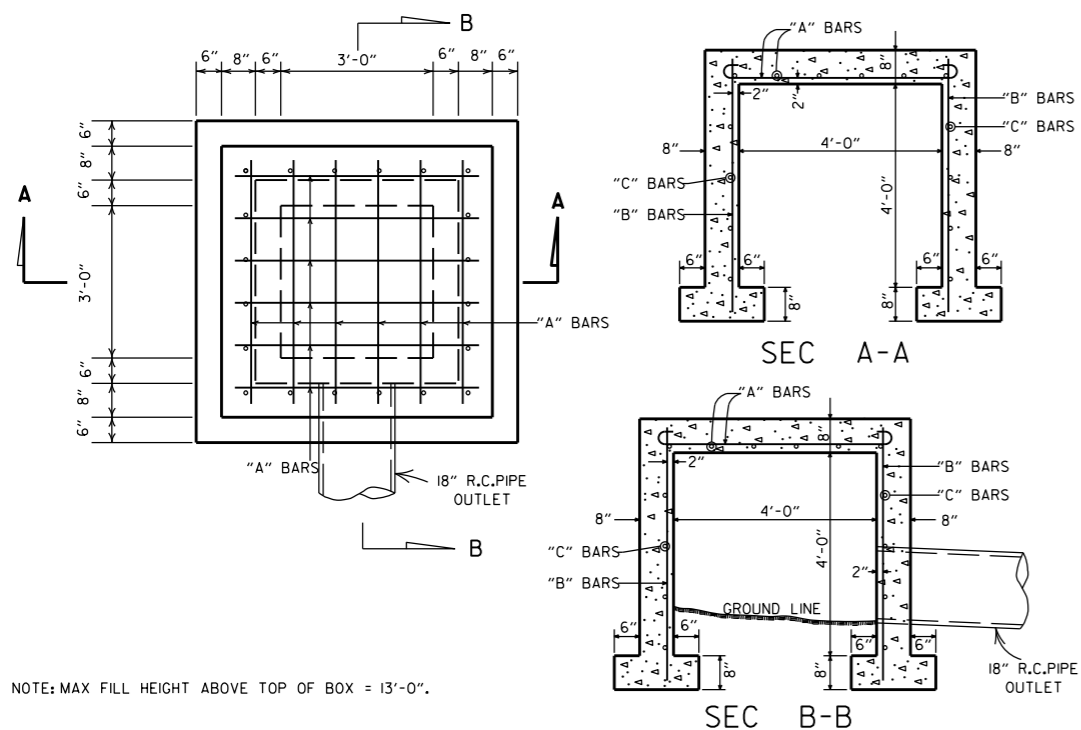
POST CLIP BOLT

2 1/2" X 2 1/2" X 1/4" ANGLE
 5'-8" LONG 1.4" PER FT.
 (ALUM. ALLOY 6061-T6)



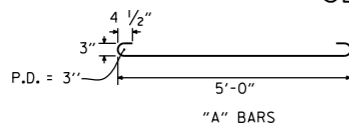
SECONDARY SIGN INSTALLATION ON BACKSIDE OF GUIDE SIGN

		ARKANSAS STATE HIGHWAY COMMISSION	
		DETAILS OF GUIDE SIGN PANELS	
		STANDARD DRAWING SHS-5	
9-12-13	ISSUED	REVISION	FILMED
DATE			



NOTE: MAX FILL HEIGHT ABOVE TOP OF BOX = 13'-0".

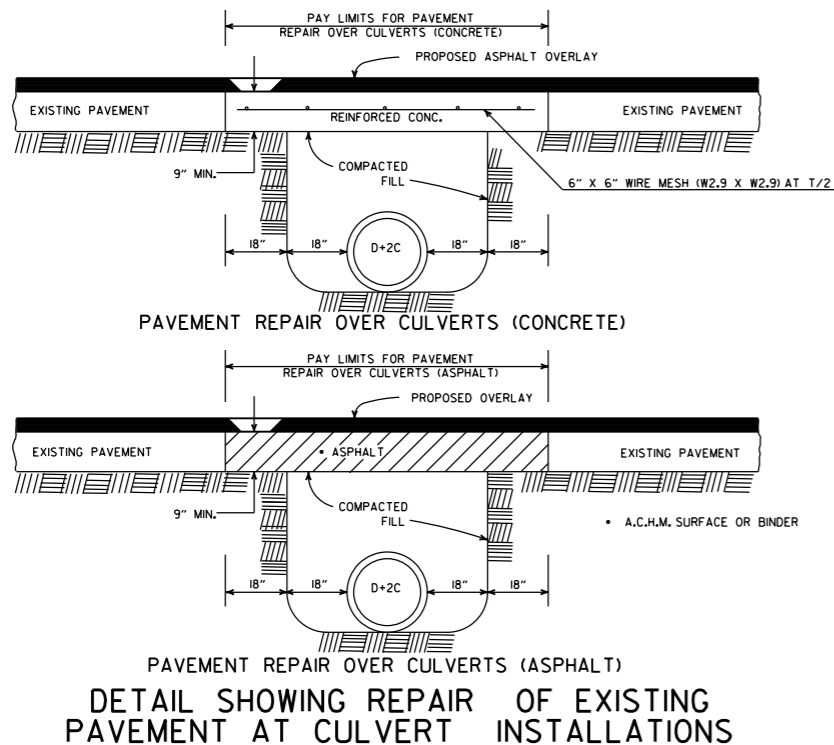
STEEL SCHEDULE			
BARS	NUMBER	LENGTH	SPACING
"A"	12	6'-0"	10"
"B"	20	5'-0"	10 1/2"
"C"	16	5'-0"	12"



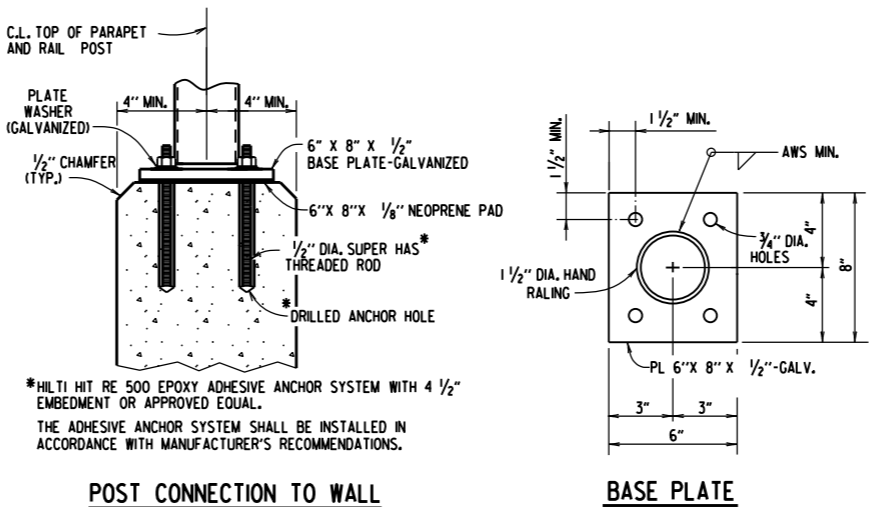
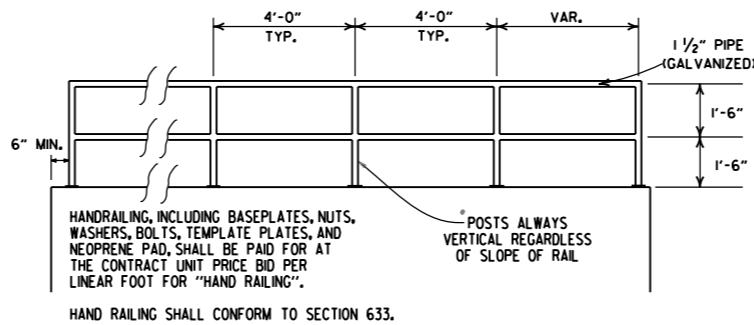
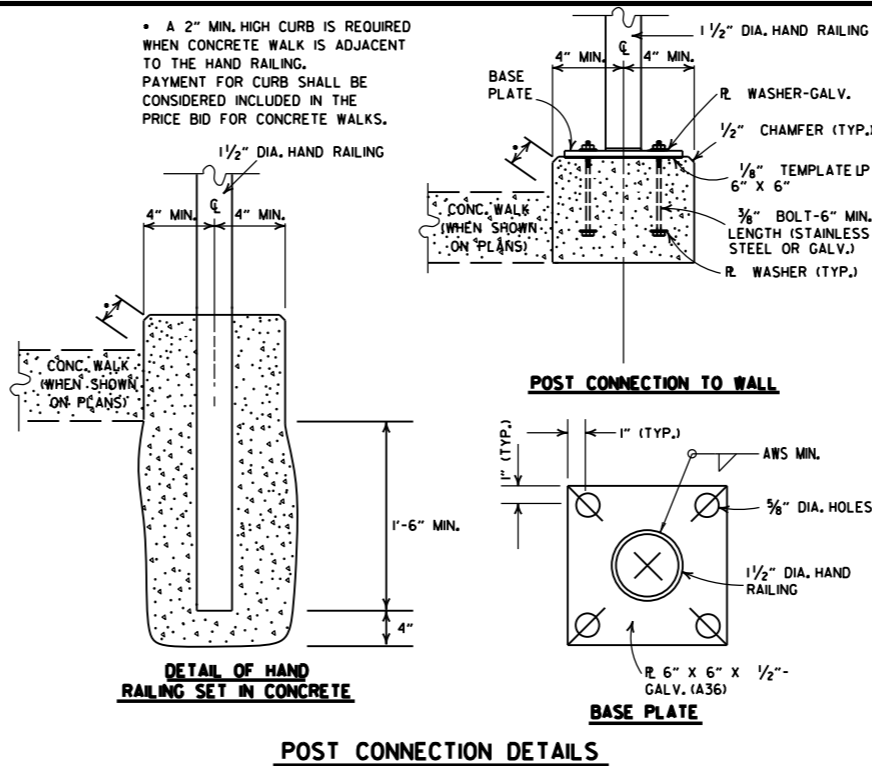
QUANTITIES
 "A" BARS
 CONCRETE 3.31 CU. YDS.
 REINFORCING STEEL 168 LB.

GENERAL NOTE:
 THE PAY ITEMS FOR REINFORCED CONCRETE SPRING BOXES SHALL BE FOR THE QUANTITIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL, EXCAVATION FOR STRUCTURES AND 18" R.C. PIPE CULVERT.

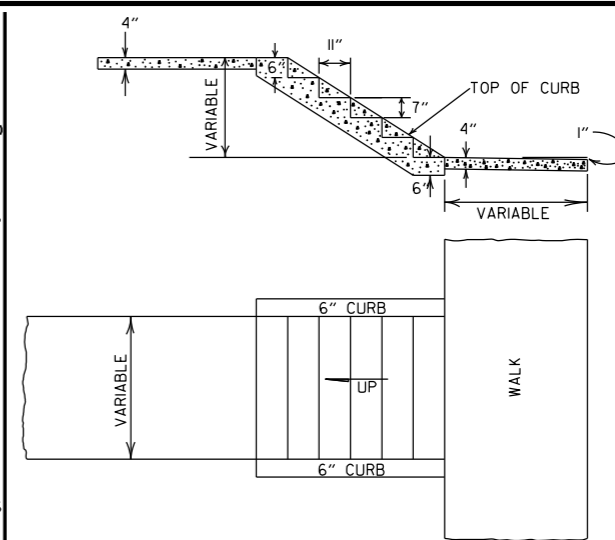
REINFORCED CONCRETE SPRING BOX



DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS



DETAILS OF ALTERNATE POST ANCHOR SYSTEM (EPOXY ADHESIVE ANCHORS)
 HAND RAILING DETAILS



DETAILS OF CONCRETE STEPS & WALKS

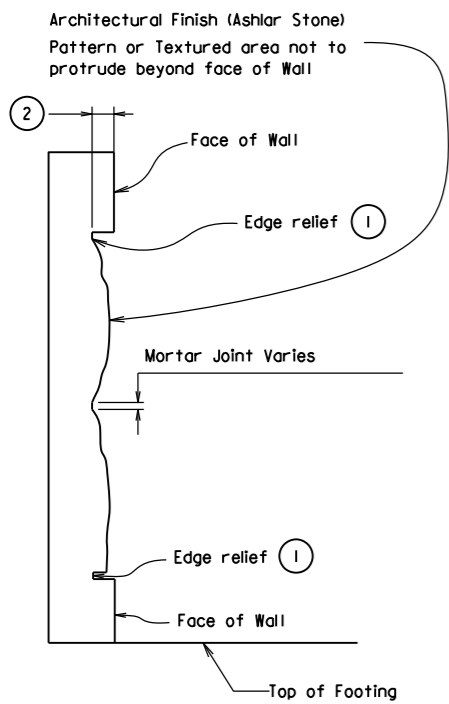
GENERAL NOTES
 1. RISE AND TREAD DIMENSIONS OF STEPS MAY BE VARIED AS DIRECTED BY THE ENGINEER, HOWEVER, TREAD WIDTHS SHALL BE 11" MIN. ALL STEPS IN A FLIGHT SHALL HAVE CONSISTENT TREAD & RISER DIMENSIONS.
 2. 1" TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 45' INTERVALS.

DATE	REVISION	DATE FILMED
10-25-18	REVISED DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS	
9-12-13	REVISED REINFORCED CONCRETE SPRING BOX	
7-26-12	REMOVED RETAINING WALL DETAILS & REVISED HAND RAILING DETAILS	
4-17-08	REV. JOINT & FOOTING STEP DETAILS	
11-29-07	REVISED RETAINING WALL DRAINAGE	
5-25-06	REVISED PVMT REPAIR OVER CULVERTS (CONC); REVISED REINFORCED CONG. SPRING BOX	
10-9-03	REVISED PIPE RAILING DETAILS TO HAND RAILING DETAILS	
4-10-03	REVISED RETAINING WALL DRAWING	
8-22-02	ADDED HAND RAILING DETAIL	
11-16-01	REVISED PVMT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES	
11-18-98	ADDED GENERAL NOTES TO CONCRETE STEPS & WALKS	
7-02-98	ENLARGED PIPE	
4-03-97	ADDED NOTE TO STEEL BAR SCHED.	
10-18-96	CORRECTED SPELLING	
4-26-96	ADD WEEP HOLE; REV. JOINT SPACING IN RET. WALL	
6-2-94	CHANGED CONST. TO CONTRACTION JOINT	
10-1-92	CHANGED MESH FABRIC TO WIRE MESH	10-1-92
8-15-91	DELETED HDWL MODIFICATION DETAIL	8-15-91
11-8-90	DELETED COLD MIX FROM CULV'T. REPAIR	11-8-90
11-30-89	REV. RETAINING WALL STEEL SCHEDULE	11-30-89
11-17-88	V. BARS BEHIND ARROW	665-11-17-88
7-15-88	REV. PAVEMENT REPAIR	649-7-15-88
11-1-84	ADDED HDWL. MODS, DEL. PIPE UNDERDRAINS	
1-4-83	REV. TRENCH FOR PIPE UNDERDRAIN	510-11-1-84
	ELIMINATED CONG. CLASS & ADDED CHAMFER NOTE	682-1-4-83
3-2-81	SPELLING OF "UNDERDRAIN"	721-3-2-81
4-20-79	REV. UNDERDRAIN DET & PAVEMENT REPAIR	674-4-20-79
2-2-76	12" MIN. GRAN. MAT'L. OVER PIPE	919-2-2-76
4-10-75	REM. SPECS. FOR GRAN. MAT'L.	568-4-10-75-853
5-22-74	GRANULAR MAT'L. TO BE SB-3	567-5-22-74-740
10-2-72	REVISED AND REDRAWN	564-10-16-72

ARKANSAS STATE HIGHWAY COMMISSION

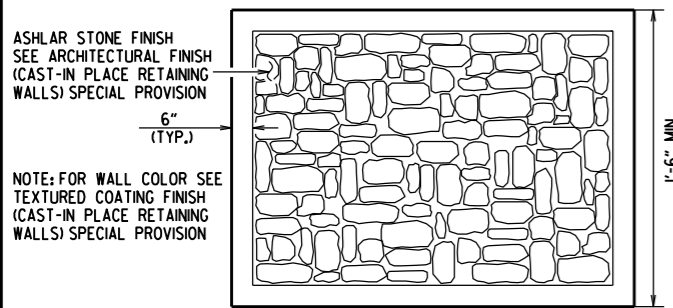
DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI - 1



ARCHITECTURAL FINISH DETAILS
N.T.S.

- 1 Provide edge relief around perimeter of Texture. Edge relief dimensions shall match manufacturers edge distance.
- 2 Depth of Ashlar Stone pattern approx. 1 5/8". See SP "Architectural Finish".



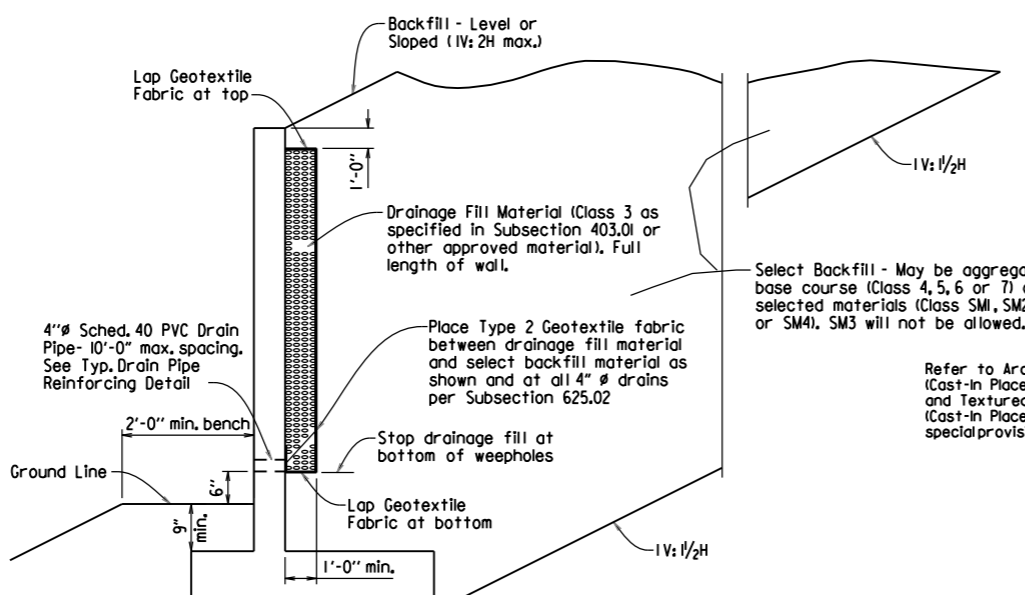
ASHLAR STONE FINISH DETAIL

NOTES:

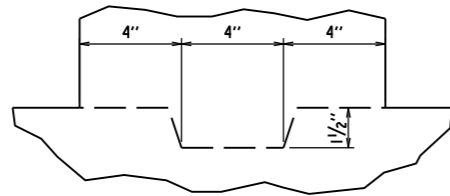
Wall pattern shall be applied to the exposed surfaces of wall in accordance with SP "Architectural Finish (Cast-In Place Retaining Walls)" and as shown in the plans. Care shall be taken with form liner handling and installation to ensure aesthetic quality of the wall texturing is maintained. Where form liner panels require modification to conform to the location, dimensions and lines shown in the plans, the Contractor shall provide edge relief matching that of the unaltered form liner. Payment for wall texturing shall be in accordance with SP "Architectural Finish (Cast-In Place Retaining Walls)".

No adjustments will be made in concrete volume due to the use of "Architectural Finish". Class "S" Concrete shall be measured in accordance with Subsection 802.24(a). Care shall be taken in placing concrete to avoid segregation and to eliminate flow lines.

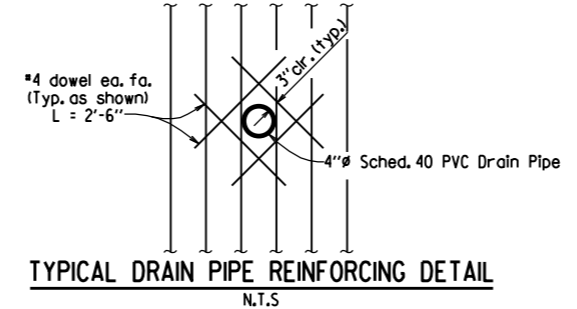
Class 3 Textured Coating Finish shall be applied to wall surfaces as specified in SP "Textured Coating Finish (Cast-In Place Retaining Walls)" and in accordance with Subsection 802.9(b)(3).



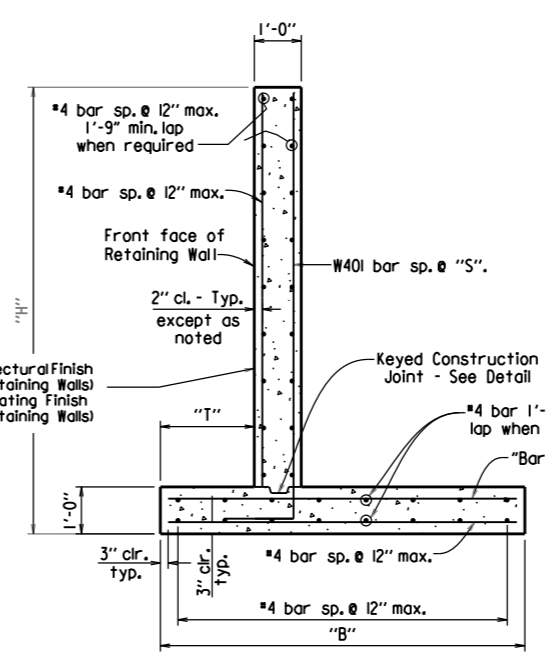
TYPICAL DRAINAGE & BACKFILL DETAILS
N.T.S.



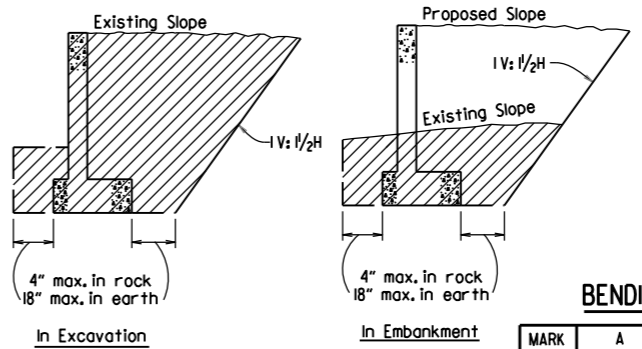
KEYED CONSTRUCTION JOINT DETAIL
N.T.S.



TYPICAL DRAIN PIPE REINFORCING DETAIL
N.T.S.

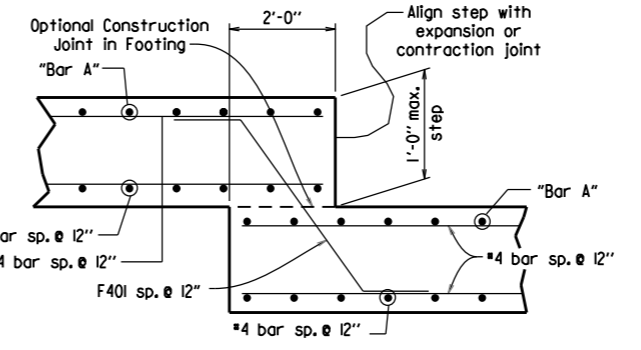


TYPICAL SECTION
N.T.S.



DETAILS OF EXCAVATION
N.T.S.

NOTE: Hatched area denotes maximum limits of pay excavation.



FOOTING STEP DETAIL
N.T.S.

DATE	REVISION	DATE FILMED
5-14-20	ADDED ASHLAR STONE FINISH DETAIL AND NOTES. REVISED TYP. SECTION AND GEN. NOTES.	
5-12-16	REVISED SLOPES FOR SELECT BACKFILL	
2-27-14	REVISED GENERAL NOTES	
7-26-12	DRAWING ISSUED	

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: Arkansas Department of Transportation Standard Specifications for Highway Construction (Current Edition) with applicable supplemental specifications and special provisions. Unless otherwise noted in the plans, Section and Subsection refer to the Standard Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Sixth Edition (2012).

LIVE LOAD: Live Load Surcharge is not included in the design of these walls. Vehicular Live Load shall not be allowed within a distance equal to one-half the height of the wall.

CONCRETE: Concrete shall be poured in the dry and all exposed corners to be chamfered 1/2". All concrete shall be Class S with a minimum 28 day compressive strength $f'_c = 3,500$ psi. A Class 2 Surface finish shall be used on all surfaces of the concrete unless otherwise noted. Refer to Architectural Finish (Cast-In Place Retaining Walls) and Textured Coating Finish (Cast-In Place Retaining Walls) special provisions.

REINFORCING STEEL: All reinforcing steel shall conform to AASHTO M31 or M53, Grade 60.

Foundations for footings shall be prepared in accordance with subsection 80L.04. Backfill for retaining walls shall be in accordance with subsection 80L.08.

Waterproof Membrane (Type C), waterstops, preformed joints, weep holes & geotextile fabric shall not be paid for directly, but shall be considered subsidiary to Class S Concrete.

Drainage fill material (Class 3) and select backfill shall be measured and paid for as Compacted Embankment.

These details are not intended for use along streams or ditches without consideration for scour.

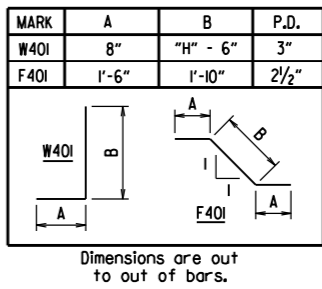
TABLE OF RETAINING WALL VARIABLES (SLOPED BACKFILL) (1V: 2H MAX.)

"H"	"T"	"B"	"S"	"Bar A" Size & Spacing
3'-0"	9"	2'-6"	12"	#4 @ 12"
4'-0"	9"	3'-6"	12"	#4 @ 12"
5'-0"	9"	4'-6"	12"	#4 @ 12"
6'-0"	9"	5'-6"	12"	#4 @ 6"
7'-0"	9"	6'-6"	12"	#5 @ 6 1/2"
8'-0"	1'-6"	8'-0"	7 1/2"	#6 @ 6"
9'-0"	1'-11"	9'-6"	5"	#8 @ 6"

TABLE OF RETAINING WALL VARIABLES (LEVEL BACKFILL)

"H"	"T"	"B"	"S"	"Bar A" Size & Spacing
3'-0"	9"	2'-6"	12"	#4 @ 12"
4'-0"	9"	3'-6"	12"	#4 @ 12"
5'-0"	9"	4'-0"	12"	#4 @ 12"
6'-0"	9"	4'-6"	12"	#4 @ 12"
7'-0"	9"	5'-6"	12"	#4 @ 10"
8'-0"	9"	6'-0"	12"	#5 @ 10"
9'-0"	1'-0"	7'-0"	12"	#5 @ 6 1/2"


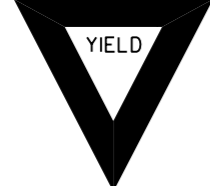







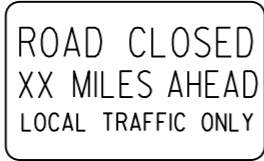
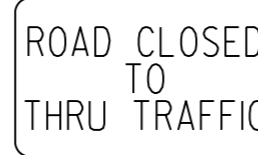

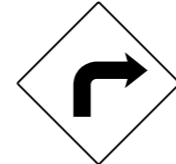



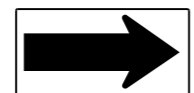

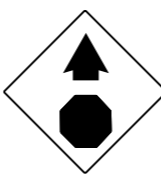

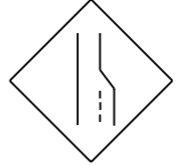










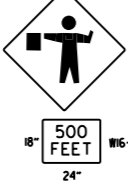






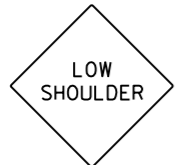

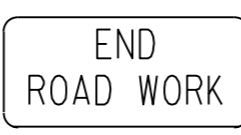
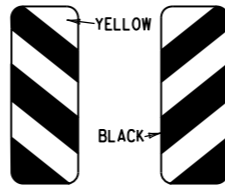


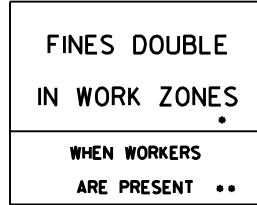
BENDING DIAGRAMS



SEISMIC ZONE: These walls have been designed for the following site adjusted peak ground accelerations (A_S):
Level Backfill - $A_S \leq .40g$
Sloped Backfill (1V: 2H max.) - $A_S \leq .30g$

ARKANSAS STATE HIGHWAY COMMISSION

REINFORCED CONCRETE RETAINING WALL (WITHOUT LIVE LOAD SURCHARGE)

<p>RI-1</p>  <p>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</p>	<p>RI-2</p>  <p>STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"</p>	<p>R2-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>W3-5</p>  <p>STD. 36"x36" EXPWY. 48"x48" FWY. 48"x48"</p>	<p>W3-5a</p>  <p>STD. 36"x36" EXPWY. 48"x48" FWY. 48"x48"</p>	<p>R4-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R4-2</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	
<p>R5-1</p>  <p>STD. 30"x30" EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>R11-2</p>  <p>48"x30"</p>	<p>R11-3A</p>  <p>60"x30"</p>	<p>R11-4</p>  <p>60"x30"</p>	<p>W21-5a</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W1-1</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W1-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	
<p>W1-3</p>  <p>STD. 48"x48"</p>	<p>W1-4</p>  <p>STD. 48"x48"</p>	<p>W1-6</p>  <p>STD. 48"x24" SPECIAL 60"x30"</p>	<p>W1-8</p>  <p>STD. 18"x24" SPECIAL 24"x30" EXPWY. 30"x36" FWY. 36"x48"</p>	<p>W3-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W3-2</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W4-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	
<p>W5-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W6-3</p>  <p>EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>W8-7</p>  <p>EXPWY. 36"x36" FWY. 48"x48"</p>	<p>W9-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W13-1</p>  <p>STD. 24"x24"</p>	<p>W20-1</p>  <p>STD. 48"x48"</p>	<p>W20-2</p>  <p>STD. 48"x48"</p>	<p>W20-3</p>  <p>STD. 48"x48"</p>
<p>W20-4</p>  <p>STD. 48"x48"</p>	<p>W20-5</p>  <p>STD. 48"x48"</p>	<p>W20-7a</p>  <p>18" 500 FEET 24" W16-2</p> <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W21-2</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W21-5</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W24-1</p>  <p>STD. 36"x36"</p>	<p>W1-4b</p>  <p>STD. 48"x48"</p>	<p>R56-1</p>  <p>STD. 18"x18"</p>
<p>W8-11</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W8-9</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>G20-1</p>  <p>60"x24"</p>	<p>G20-2</p>  <p>48"x24"</p>	<p>OM-3L OM-3R</p>  <p>12"x36"</p>	<p>M4-9</p>  <p>STD. 30"x24" SPECIAL 48"x36" SPECIAL 60"x48"</p>	<p>M4-10</p>  <p>48"x18"</p>	<p>R55-1</p>  <p>36"x60"</p> <p>• USE 6" C LETTERS •• USE 4" D LETTERS</p>

ADVANCE DISTANCES
(XXXX)

500 FT	1/2 MILE
1000 FT	3/4 MILE
1500 FT	1 MILE AHEAD

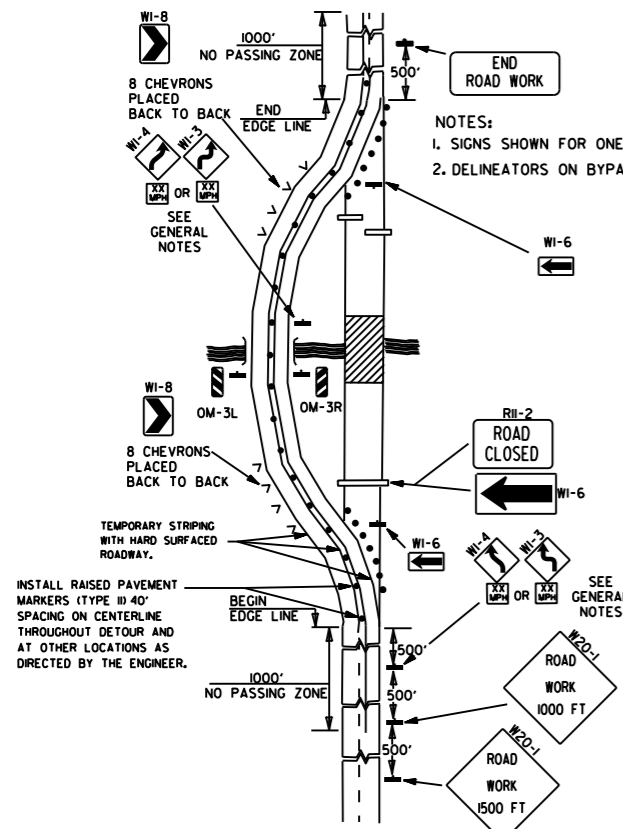
GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

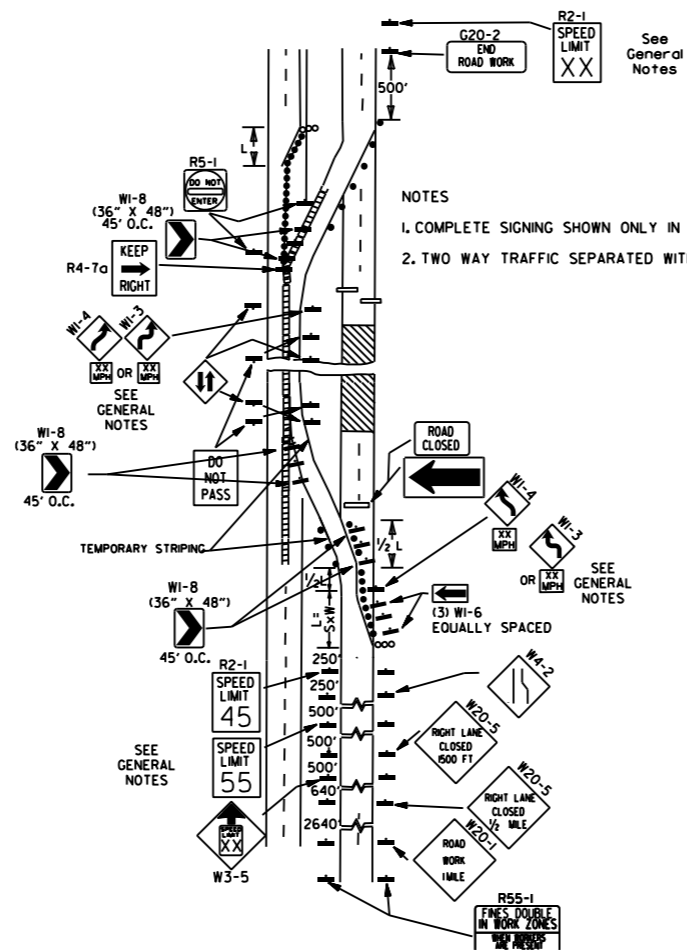
• NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W21-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

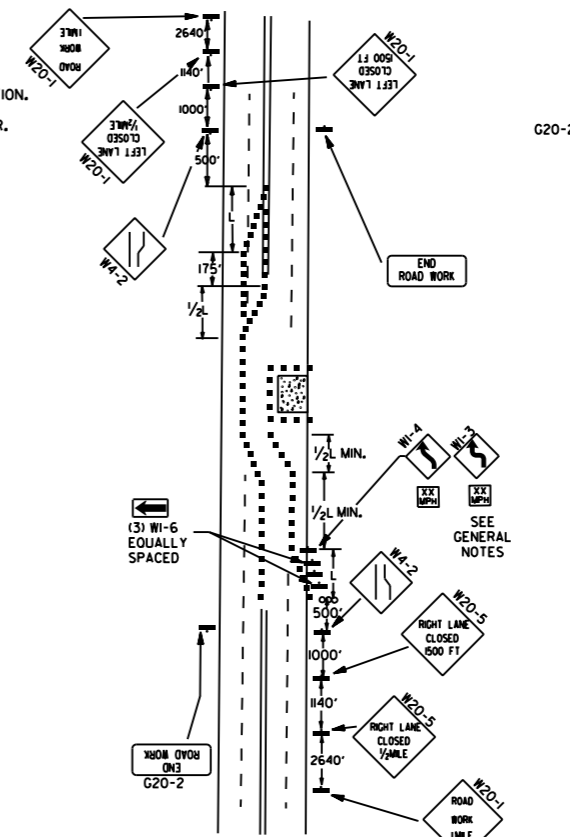
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-1



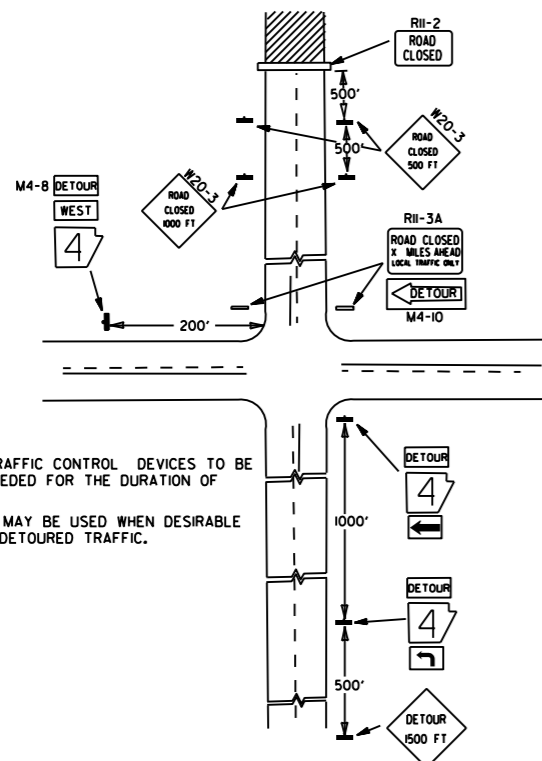
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



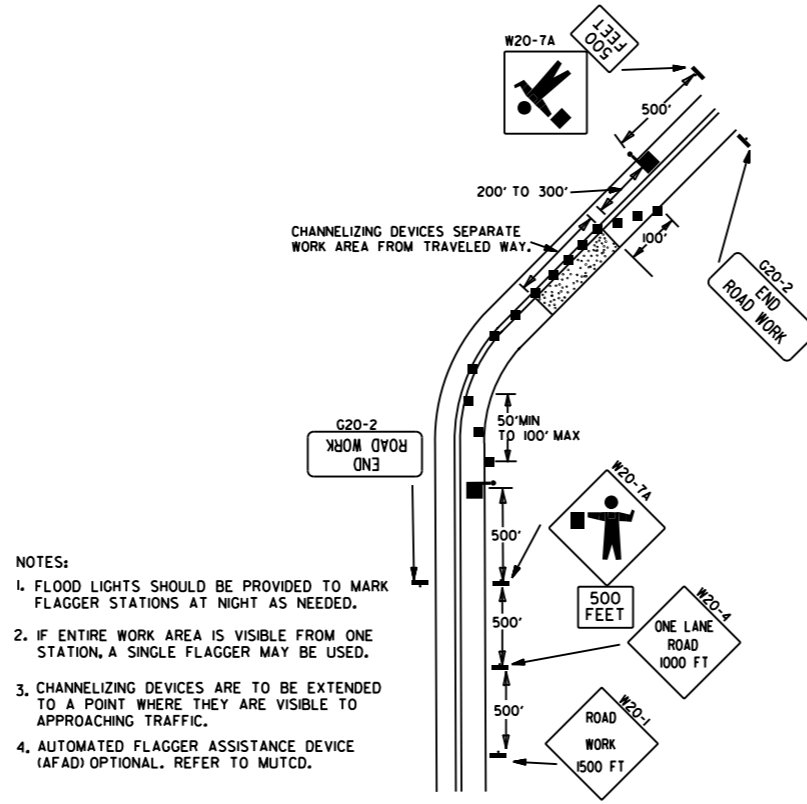
(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



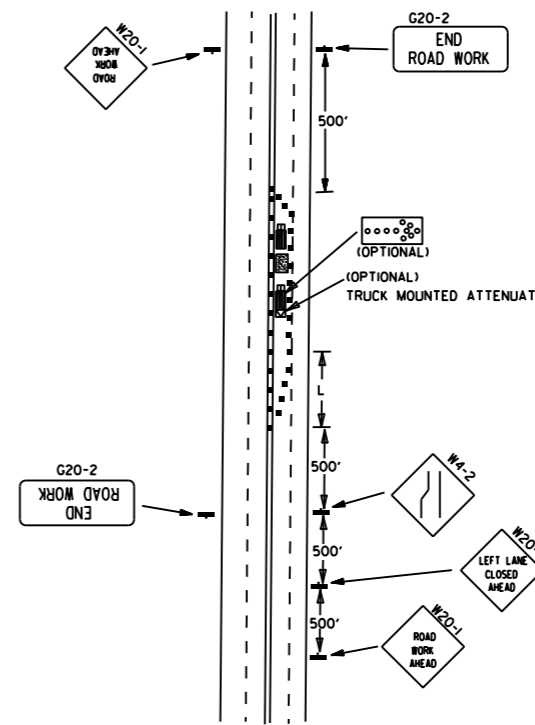
(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.

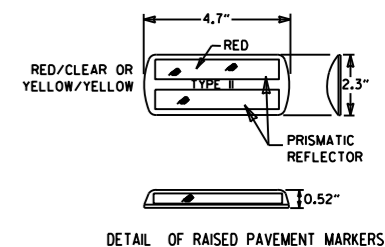


(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

- KEY:
- FLAGGER
 - ▬ POSITIVE BARRIER
 - ∞ ARROW PANEL (IF REQUIRED)
 - ▬ TYPE III BARRICADE
 - CHANNELIZING DEVICE
 - TRAFFIC DRUM
 - RAISED PAVEMENT MARKER



TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

$L = SXW$ FOR SPEEDS OF 45MPH OR MORE.

$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.

WHERE:

L = MINIMUM LENGTH OF TAPER.

S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

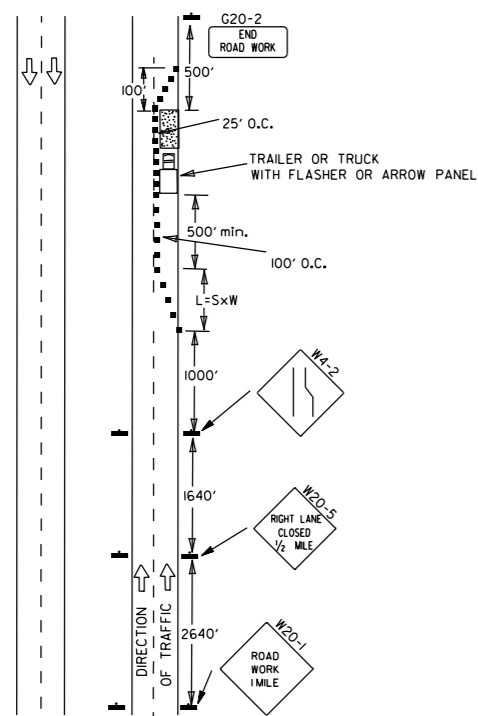
W = WIDTH OF OFFSET.

GENERAL NOTES:

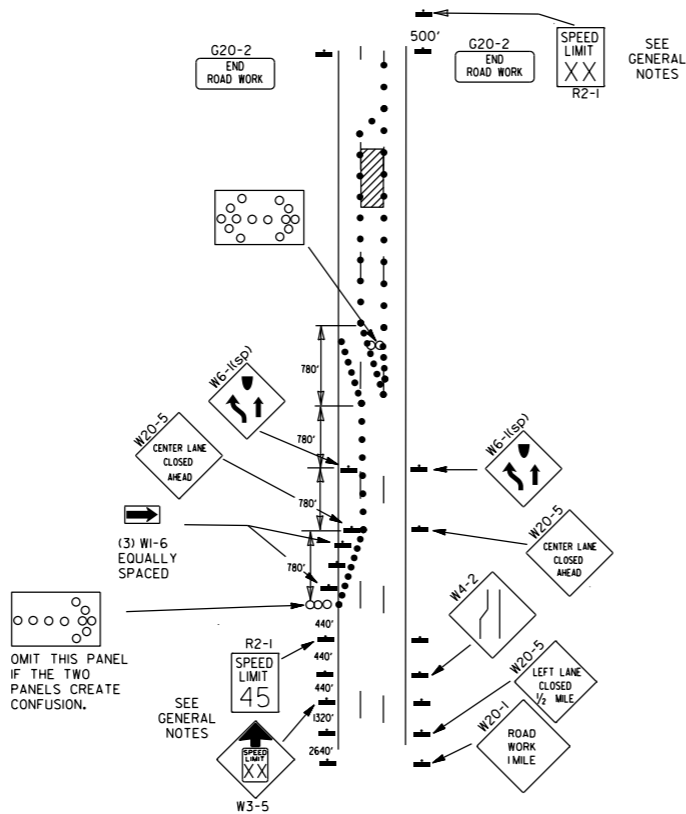
1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(K55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1(45MPH) SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(K65) SHALL BE OMITTED. ADDITIONAL R2-1(55MPH) SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

DATE	REVISION	FILED
05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE 1, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION



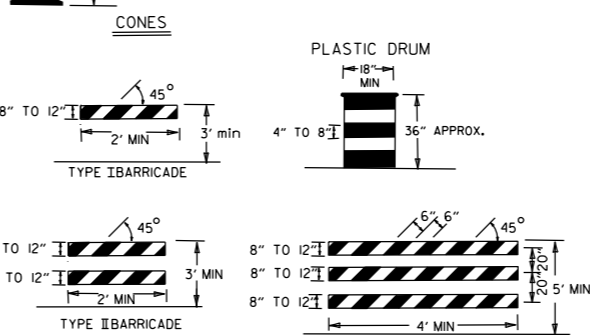
(A) TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



(B) TYPICAL APPLICATION - 3-LANE ONEWAY ROADWAY WHERE CENTER LANE IS CLOSED.

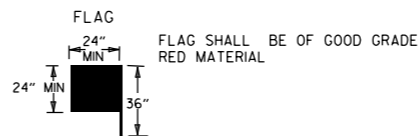
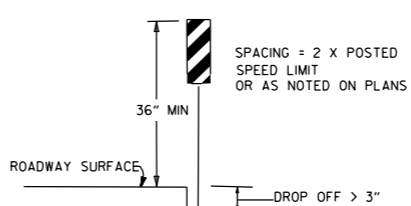
CHANNELIZING DEVICES

WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.



NOTE: FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.

VERTICAL PANEL PLACEMENT

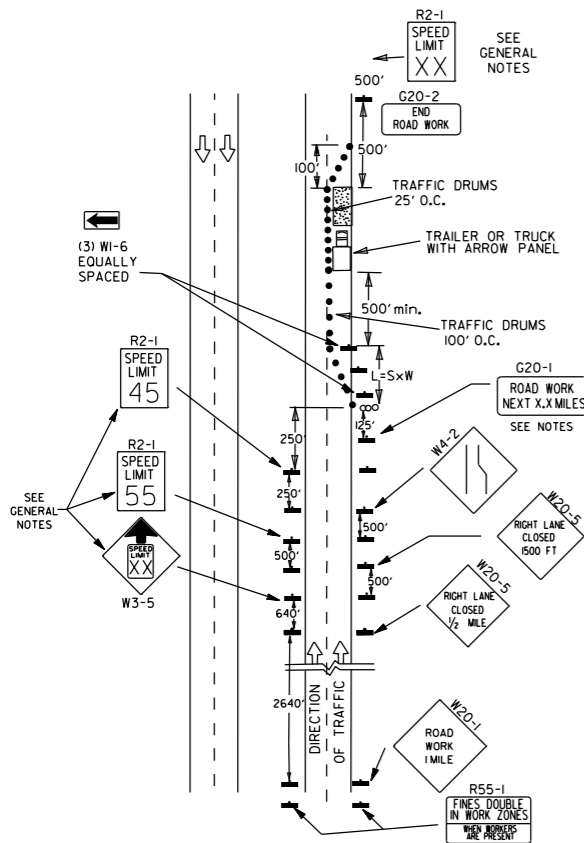


KEY:

- ○ ○ ARROW PANEL (IF REQUIRED)
- CHANNELIZING DEVICE
- TRAFFIC DRUM

GENERAL NOTES:

1. A SPEED LIMIT REDUCTION MAY BE IMPLEMENTED ONLY WHEN DESIGNATED IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1(45)MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1/4 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-(65) SHALL BE OMITTED. ADDITIONAL R2-1(55)MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1/4 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHOULD BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. THE G20-1 SIGN WILL BE REQUIRED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-1 SIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-1(1/4 MILE) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS.
8. FLAGGERS SHALL USE STOP/SLOW PADDLES FOR CONTROLLING TRAFFIC THROUGH WORK ZONES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. ALL PLASTIC DRUMS AND CONES SHALL MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
10. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



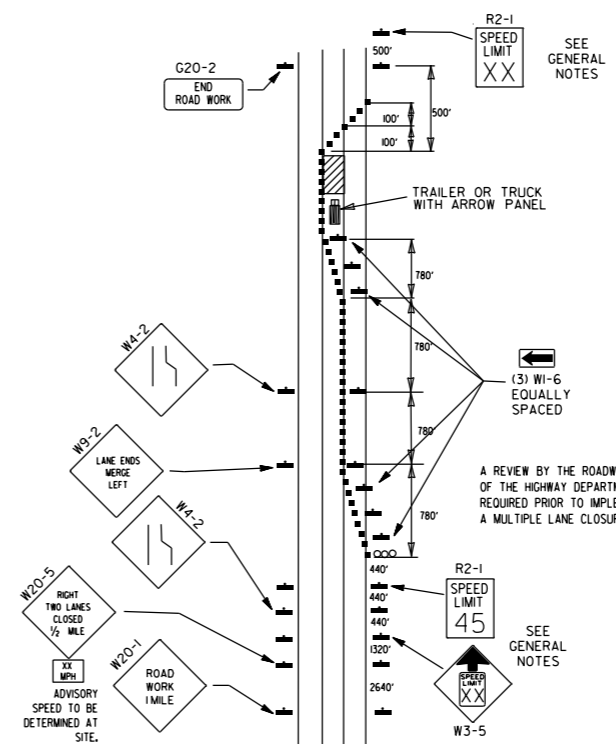
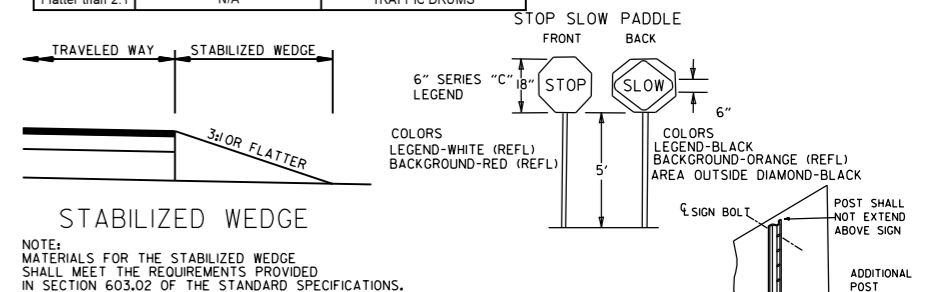
(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

TRAFFIC CONTROL DEVICES			
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE ⁽⁶⁾	STANDARD LANE CLOSURE ⁽⁶⁾
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9 AND TRAFFIC DRUMS ⁽¹⁾	W8-9 AND TRAFFIC DRUMS ⁽¹⁾
> 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽¹⁾	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽¹⁾
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽¹⁾	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽²⁾
> 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽¹⁾	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING AND TRAFFIC DRUMS ⁽³⁾
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER ⁽⁴⁾ & EDGE LINES	PRECAST CONCRETE BARRIER ⁽⁴⁾ & EDGE LINES

INTERSTATE		
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽²⁾
> 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS ⁽²⁾
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER & EDGE LINES

INTERSTATE AND NON-INTERSTATE		
FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

- GENERAL NOTES:
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
 2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS, IF AND WHERE DIRECTED BY THE ENGINEER.
 3. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.
 4. W21-5, W21-5a, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).



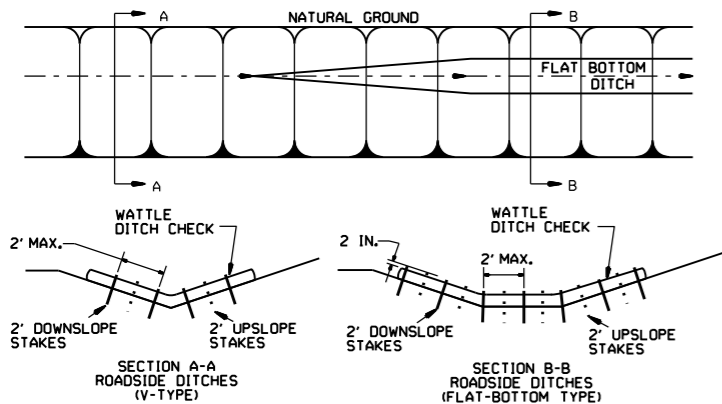
(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

DATE	REVISION	FILED
08-12-21	REVISED TRAFFIC CONTROL DEVICES AND NOTES	
05-20-21	REVISED NOTE 10	
2-27-20	REVISED TRAFFIC CONTROL DEVICES DETAILS	
11-07-19	REVISED NOTE 9, ADDED NOTE II	
7-25-19	REVISED TRAFFIC CONTROL DEVICES DETAILS	
9-2-15	REVISED NOTE 2 & REPLACED R2-5A WITH W3-5	
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1 & REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION

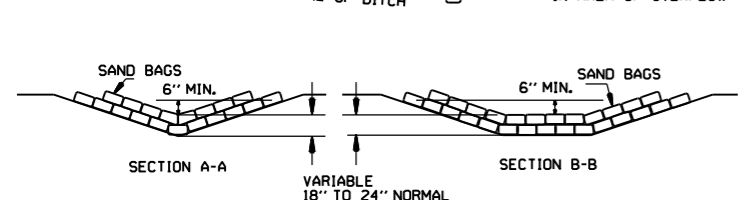
GENERAL NOTES

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

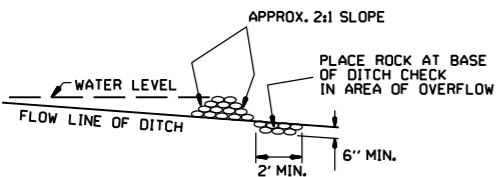


WATTLE DITCH CHECK (E-1)

NUMBER OF SAND BAGS AND ARRANGEMENT VARIABLE WITH ON-SITE CONDITIONS. PLACE SAND BAGS AT BASE OF DITCH CHECK IN AREA OF OVERFLOW.

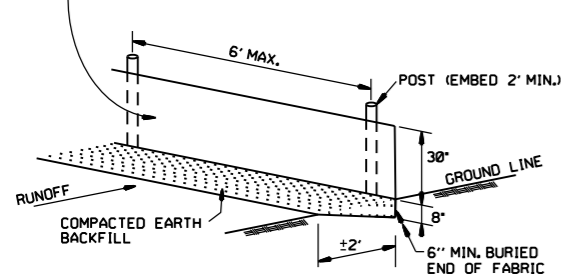


SAND BAG DITCH CHECK (E-5)

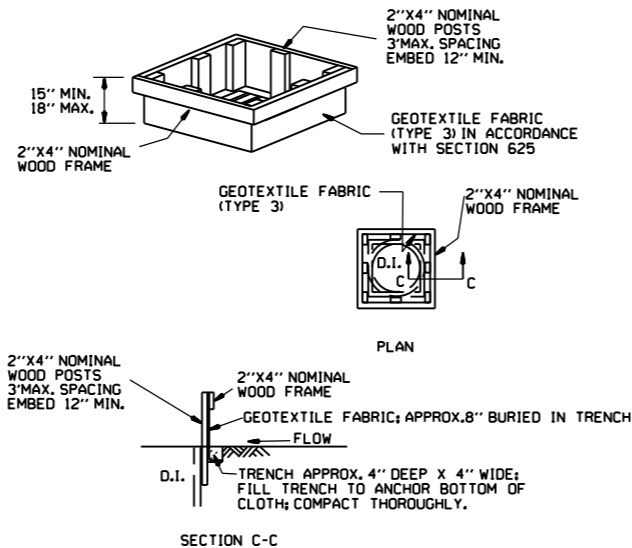


ROCK DITCH CHECK (E-6)

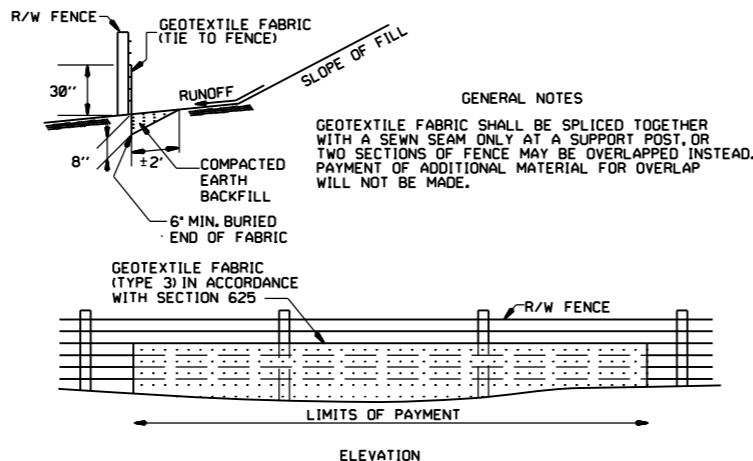
GENERAL NOTES
 GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625
 GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)

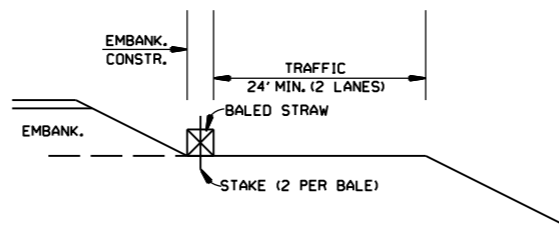


DROP INLET SILT FENCE (E-7)

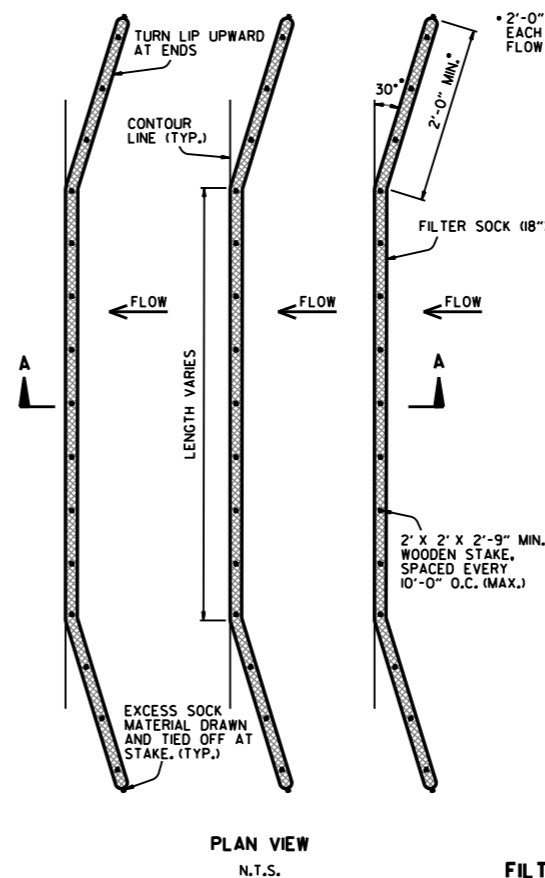


SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES
 1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
 2. NO GAPS SHALL BE LEFT BETWEEN BALES.
 3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.

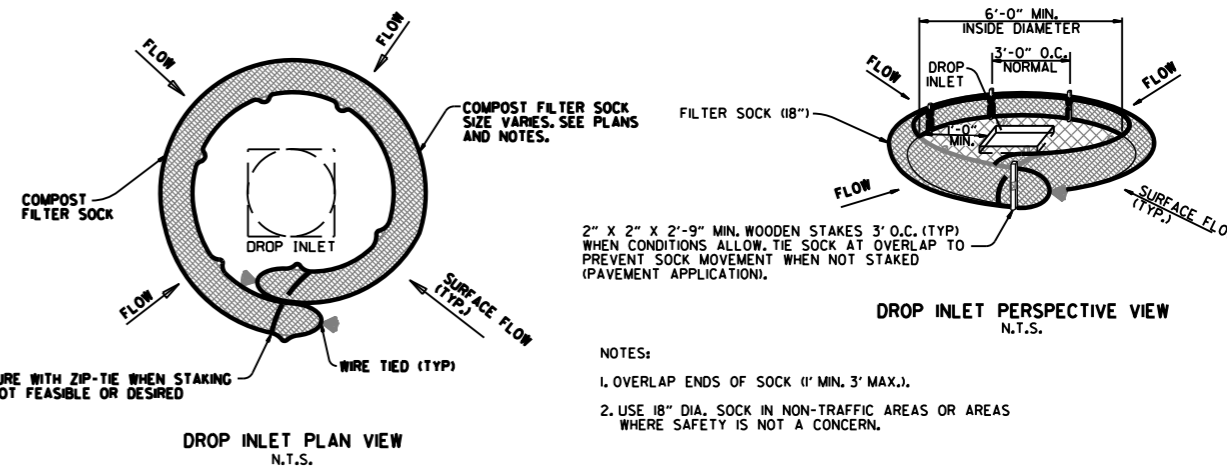


BALED STRAW FILTER BARRIER (E-2)



FILTER SOCK ALONG SLOPE (E-3)

NOTES:
 1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.
 2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.
 3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBSIDIARY TO "FILTER SOCK (18")."
 4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.
 5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

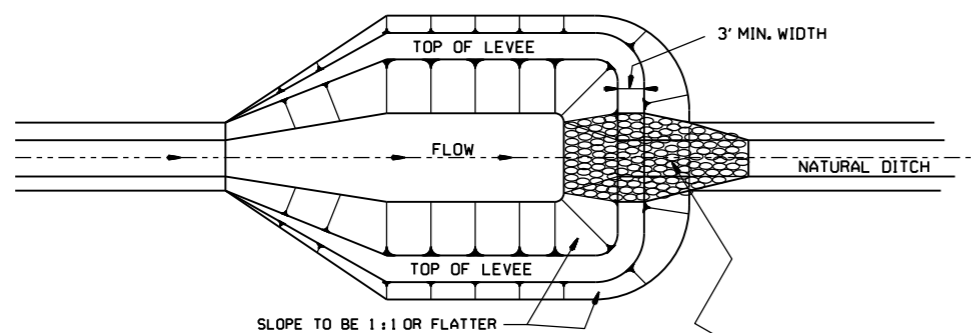


COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

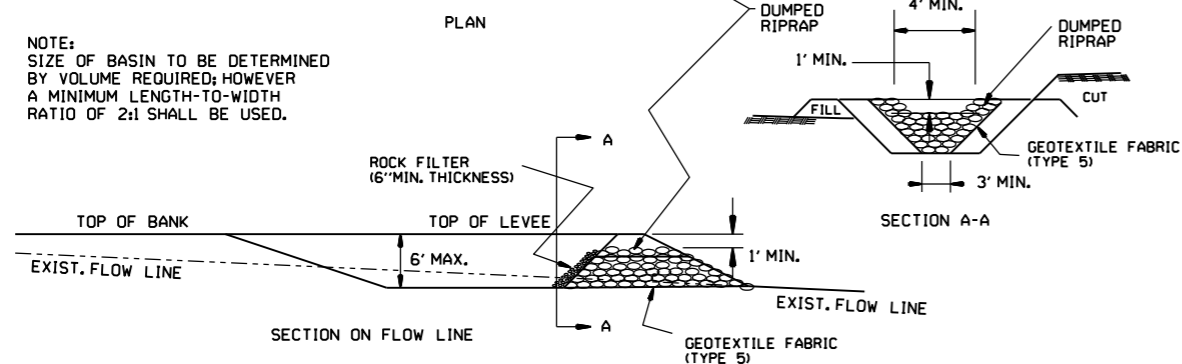
NOTES:
 1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).
 2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

DATE	REVISION
11-16-17	ADDED FILTER SOCK E-3 AND E-13
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK
11-18-98	ADDED NOTES
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)
07-20-95	REVISED SILT FENCE E-4 AND E-11
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC
06-02-94	REVISED E-1, 4, 7 & 11; DELETED E-2 & 3
04-01-93	REDRAWN
10-01-92	REDRAWN
08-02-76	ISSUED R.D.M.

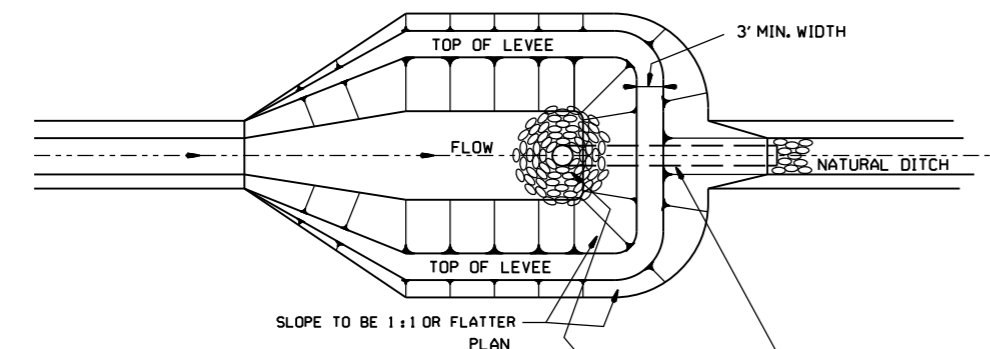
ARKANSAS STATE HIGHWAY COMMISSION
 TEMPORARY EROSION CONTROL DEVICES
 STANDARD DRAWING TEC-1



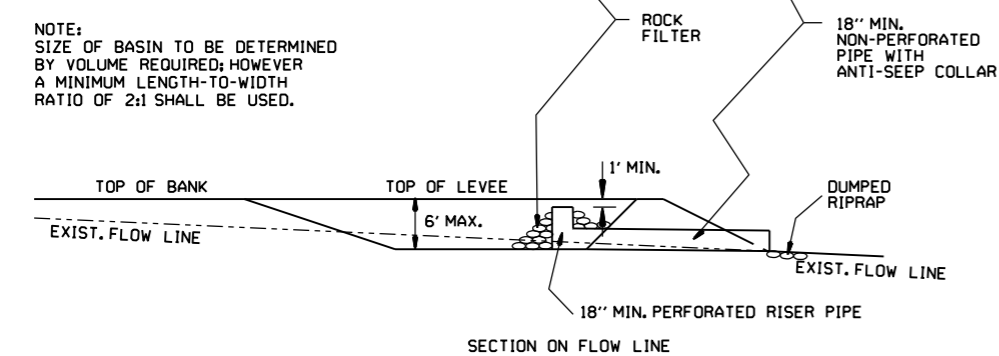
NOTE:
SIZE OF BASIN TO BE DETERMINED
BY VOLUME REQUIRED; HOWEVER
A MINIMUM LENGTH-TO-WIDTH
RATIO OF 2:1 SHALL BE USED.



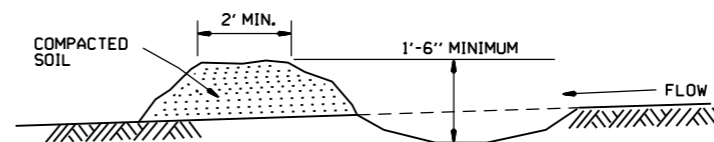
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



NOTE:
SIZE OF BASIN TO BE DETERMINED
BY VOLUME REQUIRED; HOWEVER
A MINIMUM LENGTH-TO-WIDTH
RATIO OF 2:1 SHALL BE USED.

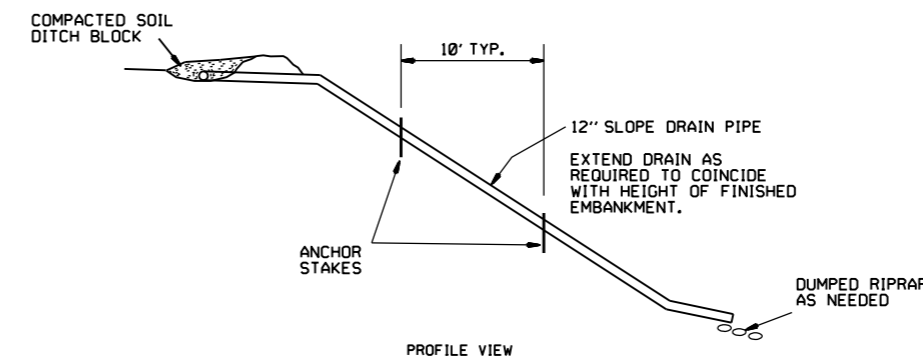
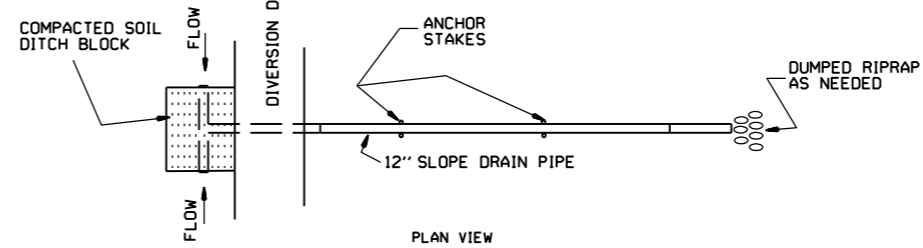


SEDIMENT BASIN WITH PIPE OUTLET (E-10)

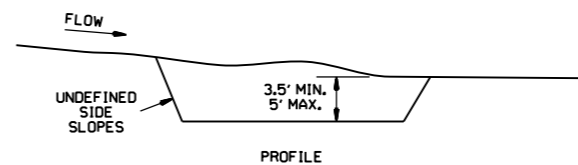
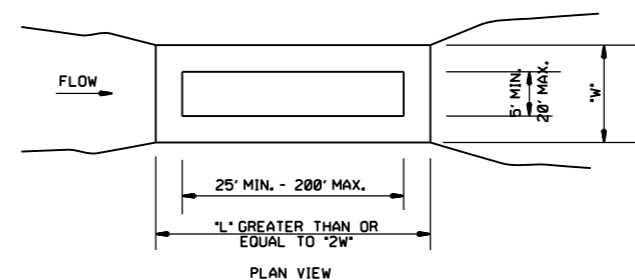


DIVERSION DITCH (E-8)

NOTE:
A T-SECTION SHALL BE USED AT THE INLET
FOR TWO-DIRECTIONAL FLOW.
AN ELBOW SHALL BE USED FOR
ONE-DIRECTIONAL FLOW.



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13		
4-1-93	ISSUED		
DATE	REVISION		FILMED

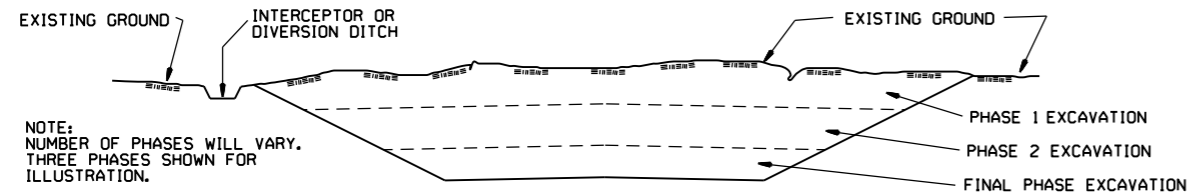
ARKANSAS STATE HIGHWAY COMMISSION
TEMPORARY EROSION
CONTROL DEVICES
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES, DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



NOTE:
NUMBER OF PHASES WILL VARY.
THREE PHASES SHOWN FOR
ILLUSTRATION.

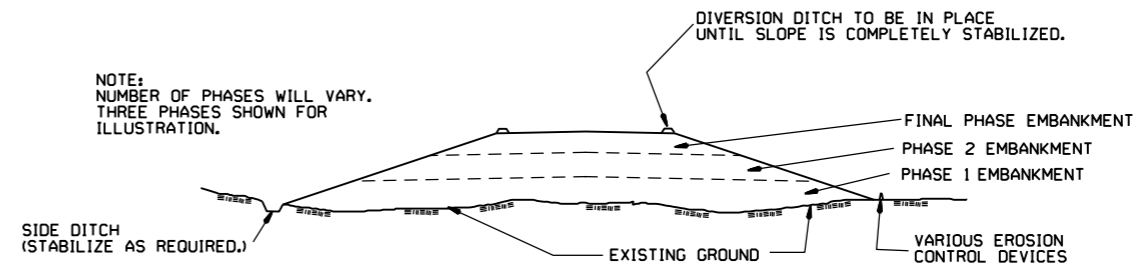
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



NOTE:
NUMBER OF PHASES WILL VARY.
THREE PHASES SHOWN FOR
ILLUSTRATION.

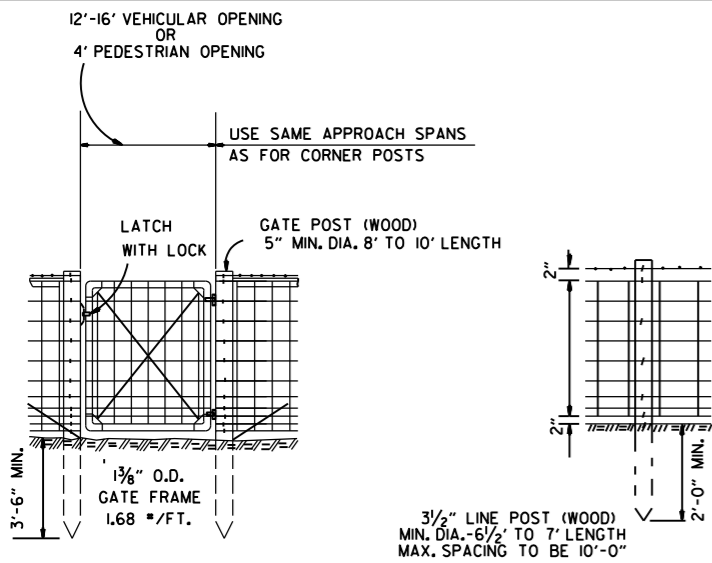
GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

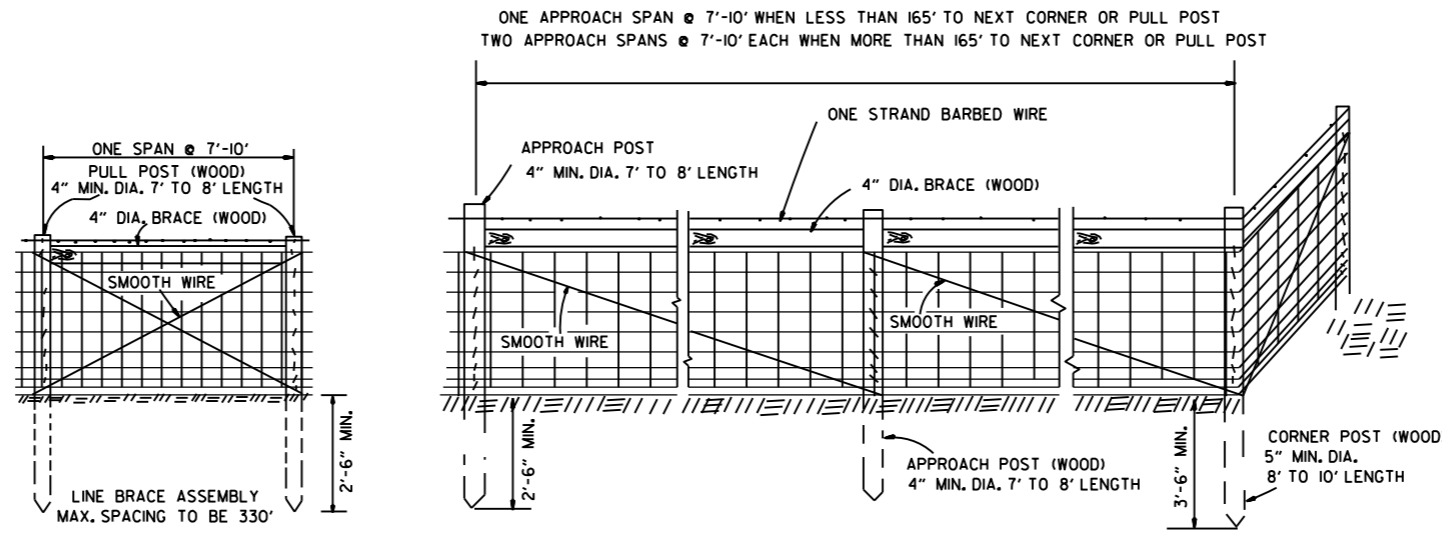
CONSTRUCTION SEQUENCE

1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

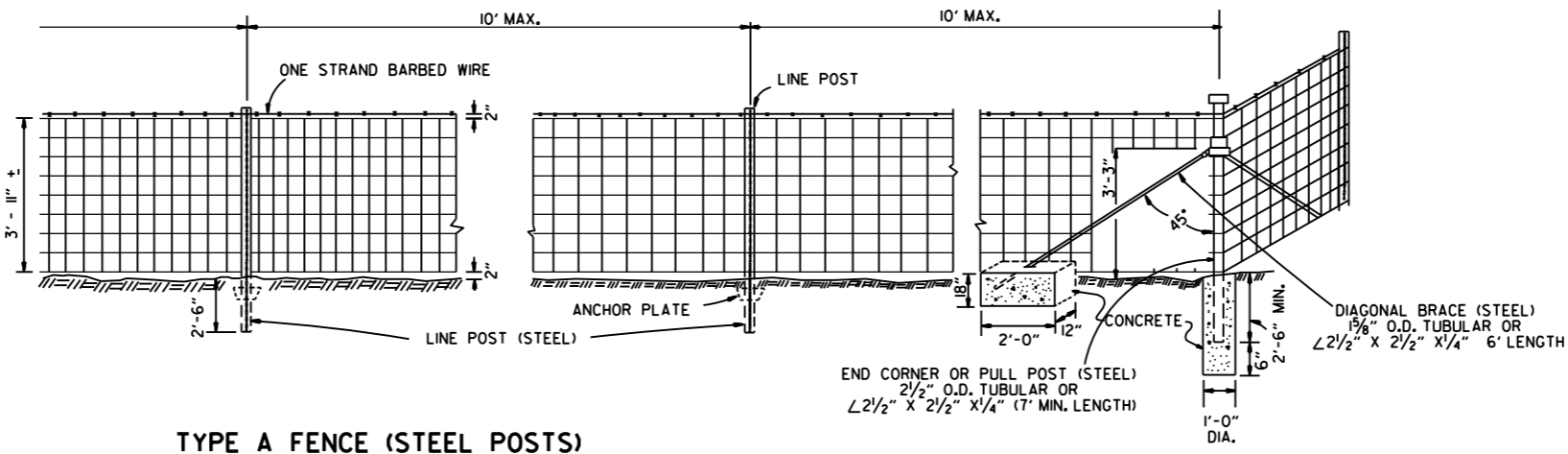
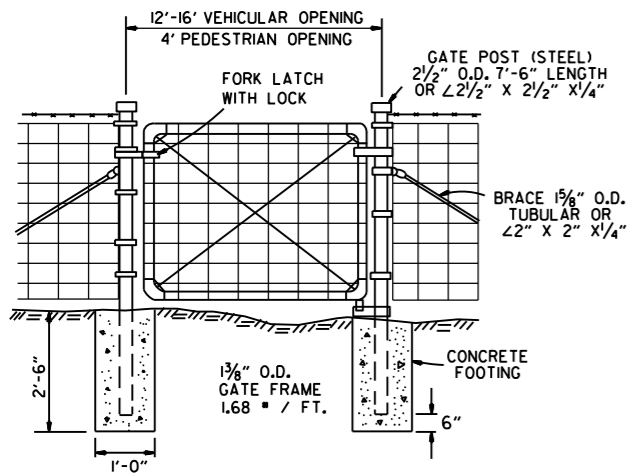
			ARKANSAS STATE HIGHWAY COMMISSION
			TEMPORARY EROSION CONTROL DEVICES
11-03-94	CORRECTED SPELLING		
6-2-94	Drawn & Issued		6-2-94
DATE	REVISION		FILMED
			STANDARD DRAWING TEC-3



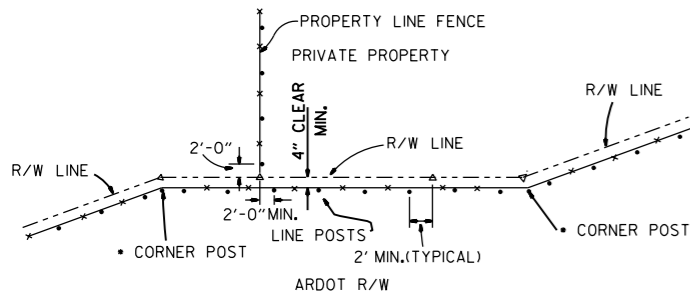
NOTE: STAPLE AT LEAST TOP, BOTTOM AND ALTERNATE WIRES OF WOVEN FABRIC FOR WOOD LINE POSTS.



TYPE A FENCE (WOOD POSTS)



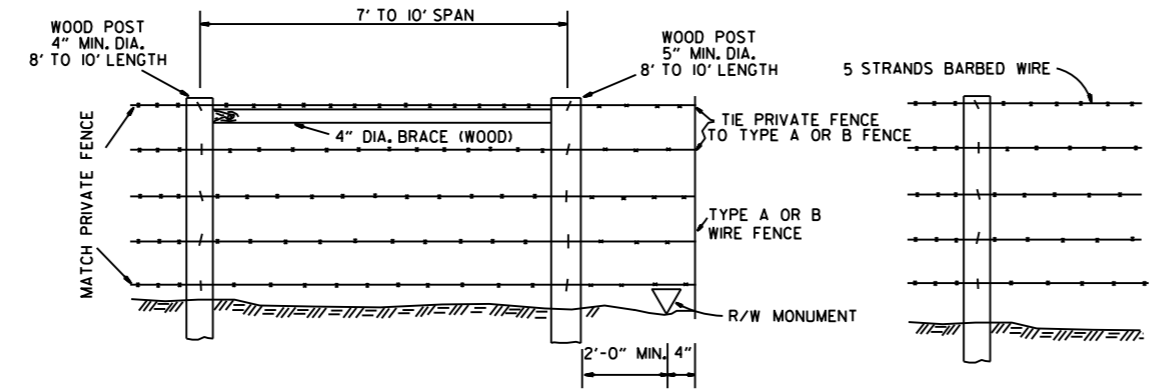
TYPE A FENCE (STEEL POSTS)



*NOTE: RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY FENCE CONSTRUCTION. CORNER POSTS SHALL BE CONSTRUCTED 2' FROM THE RIGHT-OF-WAY MONUMENT OR AS DIRECTED BY THE ENGINEER.

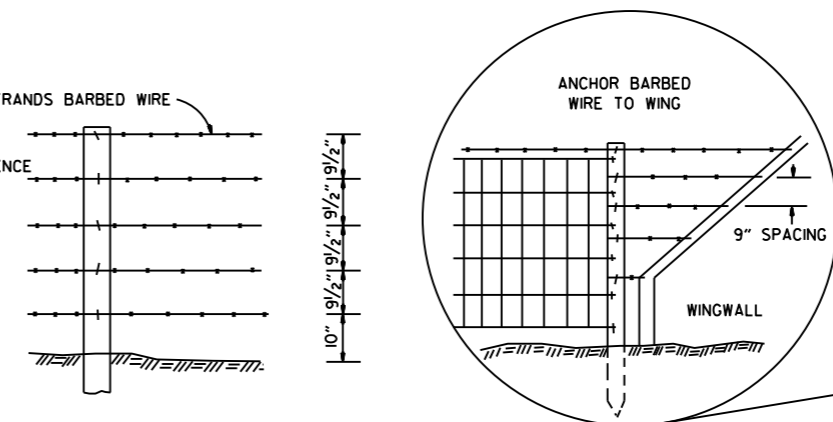
△ - R/W MONUMENTS
• - FENCE POSTS

RIGHT-OF-WAY FENCE LOCATION



WHERE EXISTING PRIVATE FENCE CONSISTS OF STEEL POSTS, USE END POST ASSEMBLY AS SHOWN WITH TYPE A FENCE OR OTHER END POST ASSEMBLY AS APPROVED BY THE ENGINEER.

PRIVATE FENCE TERMINAL INSTALLATION

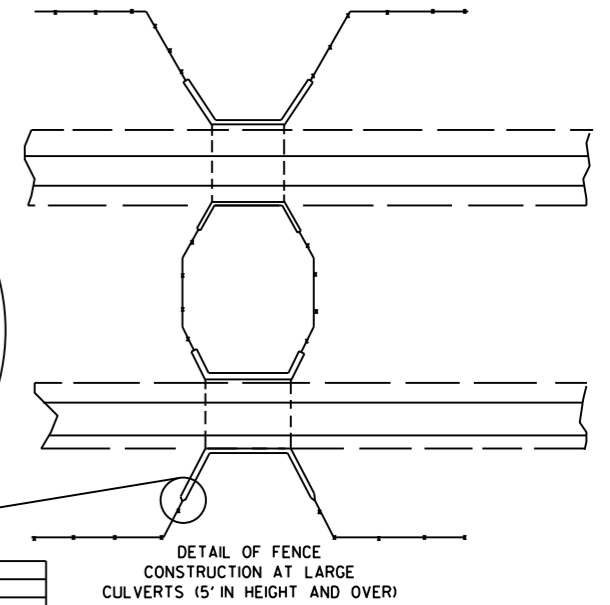


SPACING AND SIZE OF POSTS FOR TYPE B FENCE SHALL BE THE SAME AS TYPE A FENCE.

TYPE B FENCE

GENERAL NOTES:

- STEEL LINE POSTS SHALL BE GALVANIZED, 7 FT. IN LENGTH.
- TUBULAR END, CORNER, PULL, OR DIAGONAL BRACES MUST CONFORM TO THE DIMENSIONS AND WEIGHTS SPECIFIED ON STANDARD DRAWING WF-3 (CHAIN LINK).
- THE CONTRACTOR SHALL FURNISH AT LEAST 25% OF WOOD LINE POSTS OF 7' LENGTHS IN ORDER TO PROVIDE SUFFICIENT SET IN SOFT GROUND OR SMALL DEPRESSIONS.
- GATE HINGES AND LATCHES WITH LOCKS TO BE OF A TYPE APPROVED BY THE ENGINEER. DRIVEWAY GATES, EITHER SINGLE 12' OR 16' OR DOUBLE 6' TO 8' OPENINGS, OF THE SAME TYPE AS THE PEDESTRIAN GATE, SHALL BE INSTALLED ON THE RIGHT SIDE OF EACH THROUGH LANE ROAD AT LARGE CULVERTS OR BRIDGE CROSS FENCE FOR USE BY MAINTENANCE EQUIPMENT. LOCATION OF GATES TO BE SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER.
- AT STREAM CROSSINGS THE FENCE SHALL NOT BE CONSTRUCTED ACROSS LARGE STREAMS. WHERE CLEARANCE IS SUFFICIENT FROM THE TOP OF BANK TO THE BRIDGE STRUCTURE, A CROSS CONNECTION SHALL BE CONSTRUCTED BETWEEN THE FENCE ON EACH SIDE OF THE ROAD. WHERE THE CLEARANCE IS NOT SUFFICIENT, THE FENCE SHALL BE TERMINATED WITH CROSS CONNECTIONS AND END POSTS ADJACENT TO THE BRIDGE ABUTMENTS OR CULVERT WINGWALLS.
- SPlice FOR WOVEN WIRE BETWEEN PULL POST SHALL BE BY THE "WESTERN UNION METHOD" AS DESCRIBED AS FOLLOWS: THE VERTICAL WIRES FOR EACH END OF THE FENCE FABRIC SHALL BE PLACED SIDE BY SIDE AND THE PROJECTING HORIZONTAL WIRES SHALL BE WRAPPED A MINIMUM OF 4 TIMES AROUND THE HORIZONTAL WIRES OF THE FIRST WEB.
- SPlice FOR BARBED WIRE BETWEEN PULL POST ASSEMBLY SHALL BE BY THE "EYE METHOD" AS DESCRIBED AS FOLLOWS: THE ENDS OF THE BARBED WIRE SHALL BE BENT TO FORM A LOOP, THE LOOPS SHALL BE CONNECTED, AFTER THE LOOPS ARE CONNECTED THE ENDS OF THE WIRE SHALL BE WRAPPED AROUND THE PROJECTING WIRE A MINIMUM OF 4 TIMES FOR EACH WIRE LOOP.



DETAIL OF FENCE CONSTRUCTION AT LARGE CULVERTS (5' IN HEIGHT AND OVER)

DATE	REVISION	DATE FILMED
8-22-02	REVISED GENERAL NOTES	
10-18-96	REVISED ASTM REF. TO AASHTO	
11-22-95	REVISED R-O-W LOCATION DETAIL	
6-2-94	ADDED CORNER POST NOTE	6-2-94
8-5-93	REVISED R-O-W LOCATION DETAIL	8-5-93
10-1-92	ADDED STAPLE NOTE	
8-2-90	REV'D PULL POST LENGTH	
11-30-89	DELETED CLASS CONC.	
7-15-88	ADDED SPLICE NOTES	
7-15-88	ADDED HEIGHT DIMENSION	
4-3-87	REVISED VARIOUS NOTES AND GENERAL NOTES	
11-1-84	MAX. POST SPACING	
1-4-83	MIN. DIA. LINE POST	
10-2-72	REVISED & REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

WIRE FENCE
TYPE A AND B

STANDARD DRAWING WF-1