

5/2/2024 2:40:25 PM ...\\Road_Sheets\\MS\\r061741_INOI

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	2	136
INDEX OF SHEETS AND STANDARD DRAWINGS						



SHEET NO.	TITLE	BRIDGE NO.	DRWG.NO.
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90	DETAILS OF BENT 2 (SHEET 1 OF 3)	07680	67315
91	DETAILS OF BENT 2 (SHEET 2 OF 3)	07680	67316
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104 - 136	CROSS SECTIONS		

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

BRIDGE STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
55000	STANDARD DETAILS FOR EMBANKMENT CONSTRUCTION AND BACKFILL AT BRIDGE ENDS	02-27-14
55001	STANDARD DETAILS FOR DUMPED RIPRAP AND FILTER BLANKET AND COMPUTING EXCAVATION FOR STRUCTURES	02-27-14
55002	STANDARD DETAILS FOR CCNCRETE RIPRAP	02-27-14
55005	STANDARD DETAILS FOR PERMANENT STEEL BRIDGE DECK FORMS FOR STEEL & CONCRETE GIRDER SPANS	03-24-16
55006	STANDARD GENERAL NOTES FOR STEEL BRIDGE STRUCTURES	09-02-15
55007	STANDARD DETAILS FOR STEEL BRIDGE STRUCTURES	02-11-16
55008	STANDARD DETAILS FOR POURED SILICONE JOINTS	02-11-16
55010	STANDARD DETAILS FOR TYPE D BRIDGE NAME PLATE	04-14-23
55030F	STANDARD DETAILS FOR TYPE F APPROACH GUTTERS	09-07-23
55040F1	STANDARD DETAILS FOR TYPE F APPROACH SLAB	09-07-23
55070	STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSSTR36	09-27-22

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
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
GR-5	GUARDRAIL DETAILS (TYPE C) STREET/ROAD BARRICADE OR TEMPORARY INSTALLATION	11-07-19
GR-6	GUARDRAIL DETAILS	05-19-22
GR-8	GUARDRAIL DETAILS	11-07-19
GR-9	GUARDRAIL DETAILS	11-07-19
GR-10	GUARDRAIL DETAILS	11-07-19
GR-11	GUARDRAIL DETAILS	11-07-19
GR-12	GUARDRAIL DETAILS	05-14-20
GRT-1	GUARD RAIL DETAILS	11-07-19
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 MARKING DETAILS	02-27-20
SE-2	TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC	11-07-19
SHS-8	TYPICAL DELINEATOR PLACEMENT ALONG THE INTERSTATE SYSTEM	11-16-17
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WF-4	WIRE FENCE TYPE C AND D	08-22-02

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		6	ARK.	061741	3	136
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:

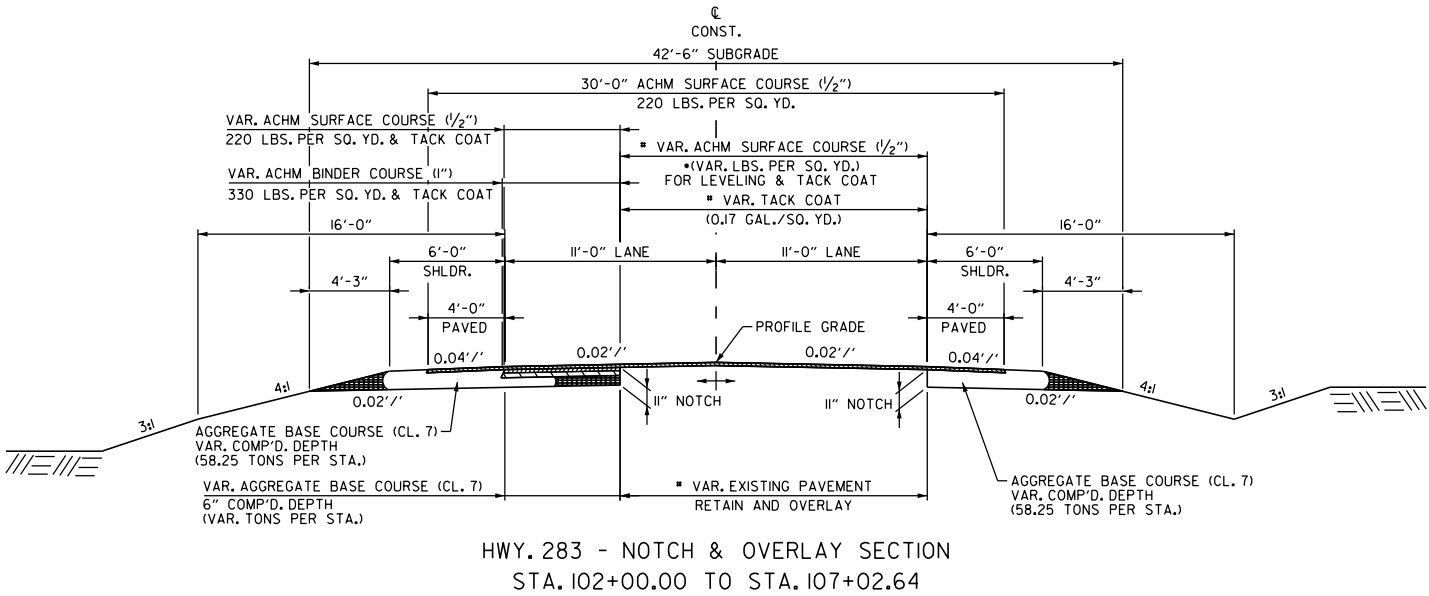
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - TRAINING PROGRAM - JOB 061741
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
307-1	CEMENT
308-1	CEMENT
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
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
606-1	PIPE CULVERTS FOR SIDE DRAINS
617-1	GUARDRAIL TERMINAL (TYPE 2)
617-2	GUARDRAIL DELINEATORS
619-1	FENCES
620-1	MULCH COVER
632-1	CONCRETE ISLAND
637-1	MAILBOXES
700-2	TRAFFIC CONTROL FACILITIES
800-1	STRUCTURES
802-3	CONCRETE FOR STRUCTURES
802-4	CEMENT
804-2	REINFORCING STEEL FOR STRUCTURES
807-2	STEEL STRUCTURES
808-1	INSTALLATION OF ELASTOMERIC BEARINGS
808-2	ELASTOMERIC BEARINGS
JOB 061741	ARCHITECTURAL FINISH
JOB 061741	ASSESSMENT OF WORKING DAYS - MAINTENANCE OF TRAFFIC
JOB 061741	BIDDING REQUIREMENTS AND CONDITIONS
JOB 061741	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 061741	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 061741	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 061741	CARGO PREFERENCE ACT REQUIREMENTS
JOB 061741	CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE
JOB 061741	COLD MILLING - COUNTY PROPERTY
JOB 061741	CONCRETE BRIDGE DECK CURING AND SURFACE TREATMENT RESTRICTIONS
JOB 061741	COORDINATION OF WORK
JOB 061741	CULVERT CLEAN OUT
JOB 061741	DESIGN AND QUALITY CONTROL ASPHALT MIXTURES
JOB 061741	DIRECT TENSION INDICATORS FOR HIGH STRENGTH BOLT ASSEMBLIES
JOB 061741	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 061741	DRILLED SHAFT FOUNDATIONS
JOB 061741	ENHANCED THERMOPLASTIC PAVEMENT MARKING
JOB 061741	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 061741	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 061741	LONGITUDINAL JOINT DENSITIES FOR ACHM SURFACE COURSES
JOB 061741	MAINTENANCE OF TRAFFIC
JOB 061741	MANDATORY ELECTRONIC CONTRACT
JOB 061741	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 061741	MOBILE SPEED NOTIFICATION SYSTEM (SPECIAL)
JOB 061741	NESTING SITES OF MIGRATORY BIRDS
JOB 061741	NONDESTRUCTIVE TESTING OF DRILLED SHAFTS
JOB 061741	OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB 061741	PARTNERING REQUIREMENTS
JOB 061741	PERCENT AIR VOIDS AND NDESIGN FOR ACHM SURFACE MIX DESIGNS
JOB 061741	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 061741	PRICE ADJUSTMENT FOR FUEL
JOB 061741	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 061741	REACTIVE AGGREGATE TESTING
JOB 061741	REMOVAL AND DISPOSAL OF WIRE ROPE SAFETY FENCE
JOB 061741	SEQUENCE OF CONSTRUCTION - ALTERNATIVE CONCEPTUAL PROPOSAL (ACP)
JOB 061741	SPECIAL SAFETY REQUIREMENTS FOR BRIDGES
JOB 061741	STORM WATER POLLUTION PREVENTION PLAN
JOB 061741	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 061741	TEXTURED COATING FINISH
JOB 061741	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 061741	UTILITY ADJUSTMENTS
JOB 061741	VALUE ENGINEERING
JOB 061741	WARM MIX ASPHALT
JOB 061741	WIRE ROPE SAFETY FENCE (POST REPAIR)
JOB 061741	WIRE ROPE SAFETY FENCE (WRSF) - REMOVE AND RECONSTRUCT

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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		6	ARK.	061741	4	136
TYPICAL SECTIONS OF IMPROVEMENT						



*NOTE: TO BE USED IF AND WHERE DIRECTED
BY THE ENGINEER

* VARIES FROM 22' TO 0' FROM STA. 102+00.00 TO STA. 107+02.64

NOTES:

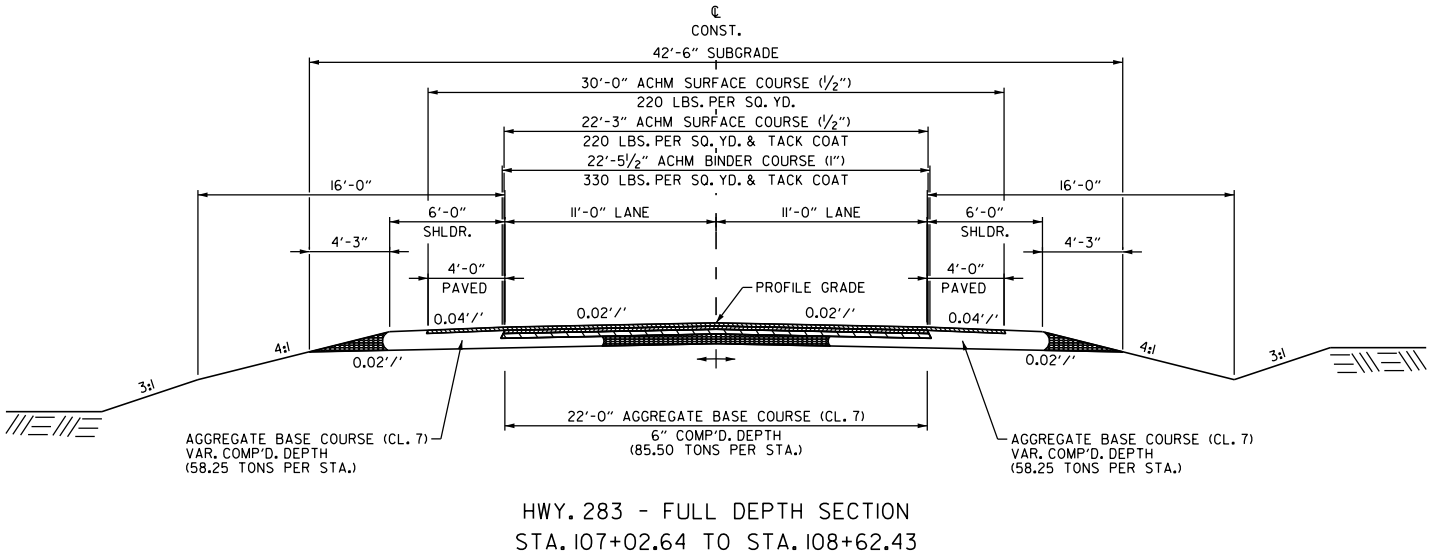
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE
NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM
THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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 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 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.

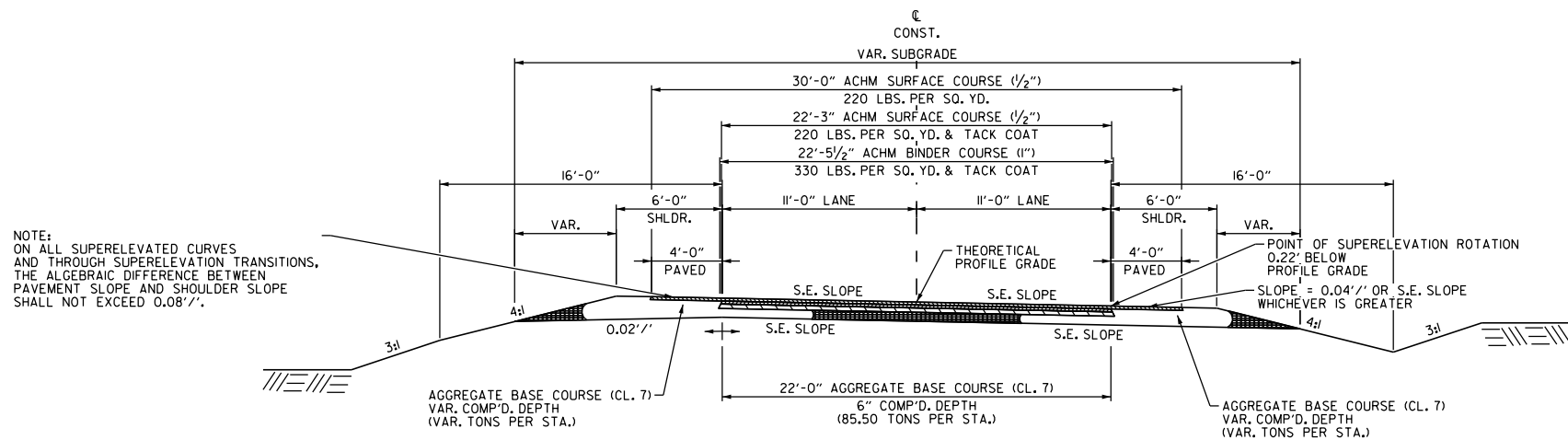
THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED
AFTER ALL OTHER COURSES HAVE BEEN LAID.
LONGITUDINAL JOINTS SHALL BE AT LANE LINES.

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 IN THE
PRICE BID FOR THE VARIOUS CONTRACT ITEMS.



TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	5	136
TYPICAL SECTIONS OF IMPROVEMENT						



HWY. 283 - FULL DEPTH SECTION
SUPERELEVATION
STA. 108+62.43 TO STA. 110+31.22
STA. 113+43.39 TO STA. 114+28.96

SEE BRIDGE PLANS FOR STA. 110+31.22 - STA. 113+43.39

NOTES:

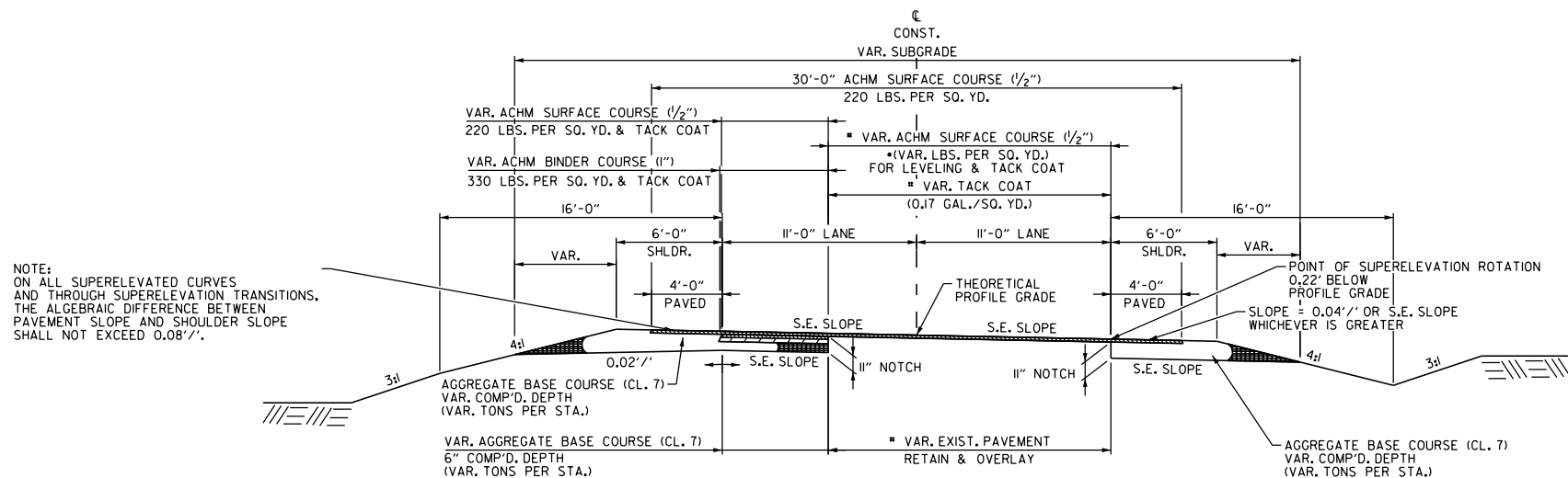
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE
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SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING.
CALCULATIONS WILL NOT BE PAID FOR DIRECTLY BUT PAYMENT WILL
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THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED
AFTER ALL OTHER COURSES HAVE BEEN LAID.
LONGITUDINAL JOINTS SHALL BE AT LANE LINES.

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 IN THE
PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

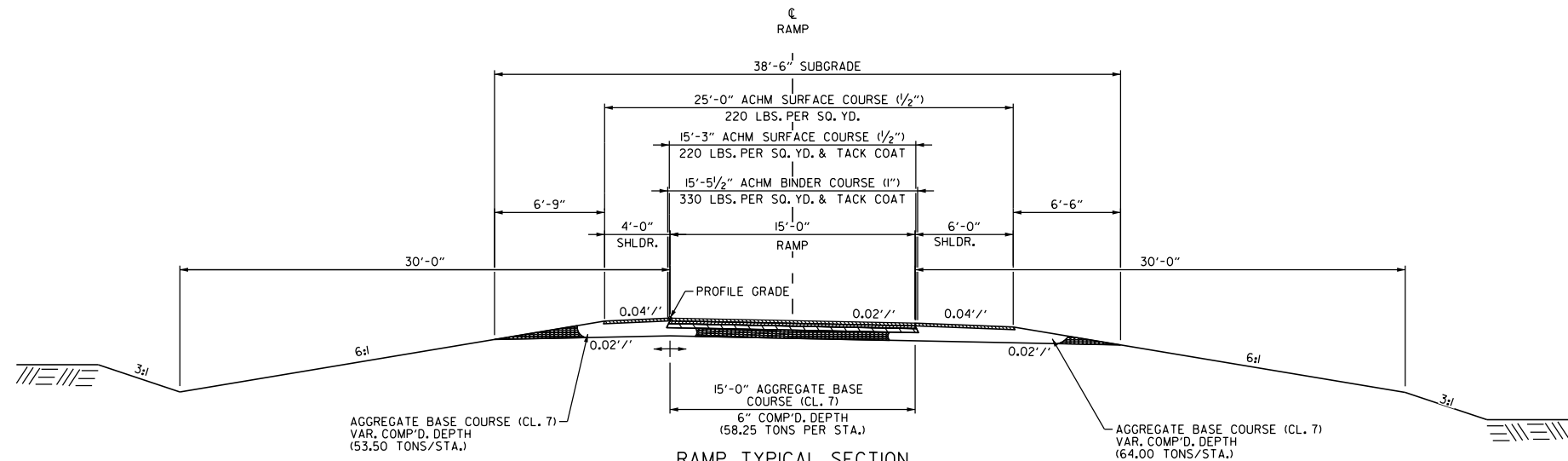


HWY. 283 - NOTCH & OVERLAY SECTION
SUPERELEVATION
STA. 114+28.96 TO STA. 116+39.26

*NOTE: TO BE USED IF AND WHERE DIRECTED
BY THE ENGINEER

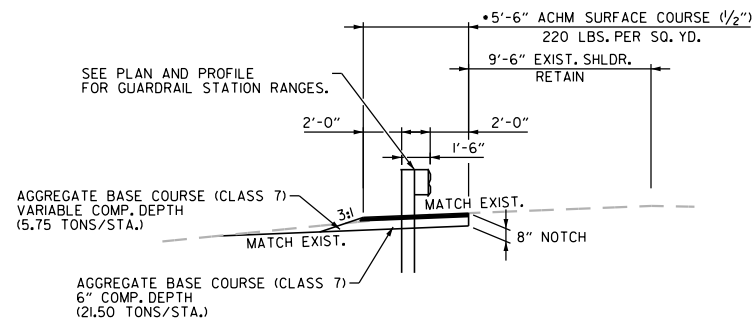
* VARIES FROM 0' TO 22' FROM STA. 114+28.96 TO STA. 116+39.26

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TYPICAL SECTIONS OF IMPROVEMENT						



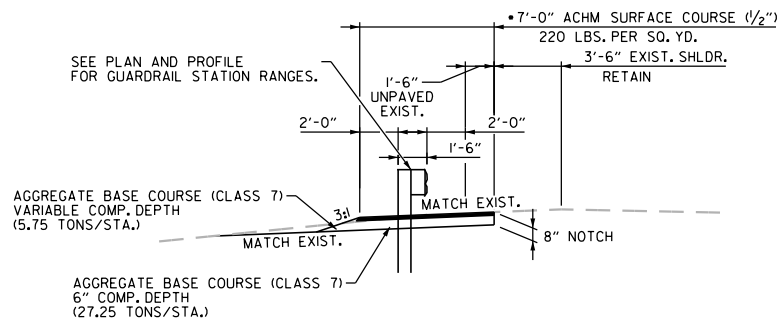
RAMP TYPICAL SECTION
(SHOWN IN DIRECTION OF TRAFFIC)
RAMP 1 STA. 201+00.00 TO STA. 202+16.14
RAMP 2 STA. 202+40.32 TO STA. 207+94.00
RAMP 3 STA. 202+92.05 TO STA. 204+50.00
RAMP 4 STA. 201+45.00 TO STA. 202+61.92

• VARIES:
STA. 1003+71.52 - STA. 1008+32.52 EB RT. AVG. WIDTH = 4.97'
STA. 1006+58.50 - STA. 1010+69.50 WB LT. AVG. WIDTH = 5.36'



I-30 GUARDRAIL FOR OUTSIDE SHOULDERS
(SHOWN IN DIRECTION OF TRAFFIC)
STA. 1003+71.52 - STA. 1008+32.52 EB RT.
STA. 1006+58.50 - STA. 1010+69.50 WB LT.

• VARIES:
STA. 1003+30.89 - STA. 1009+16.89 EB LT. AVG. WIDTH = 7.04'
STA. 1004+86.57 - STA. 1011+77.57 WB RT. AVG. WIDTH = 8.41'



I-30 GUARDRAIL FOR INSIDE SHOULDERS
(SHOWN IN DIRECTION OF TRAFFIC)
STA. 1003+30.89 - STA. 1009+16.89 EB LT.
STA. 1004+86.57 - STA. 1011+77.57 WB RT.

NOTES:

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

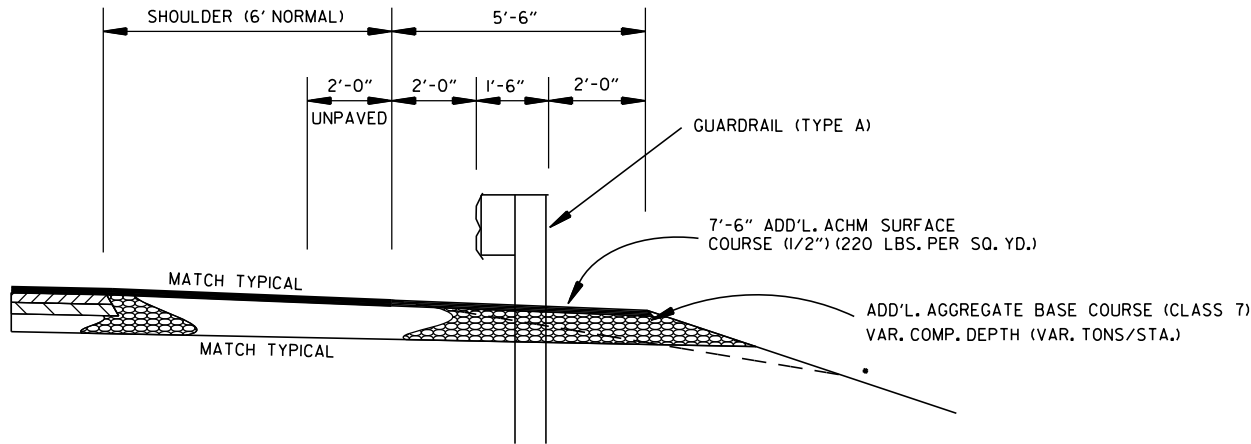
THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED ONLY IF AND WHERE DIRECTED BY THE ENGINEER. CALCULATIONS FOR THE AMOUNT OF LEVELING AND 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 LANE LINES.

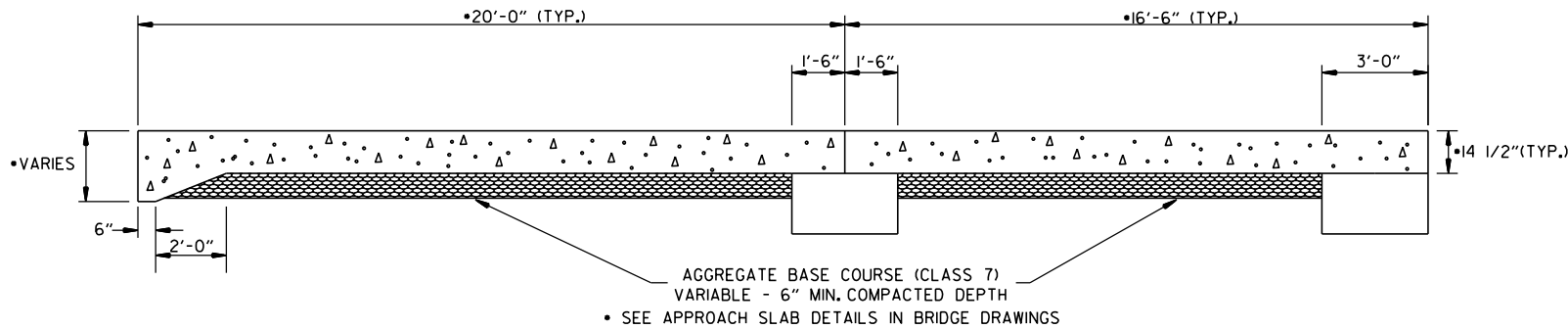
PRIOR TO AND DURING PLACEMENT OF PAVEMENT AT THE NOTCH, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) AND SPACING USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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SPECIAL DETAILS						

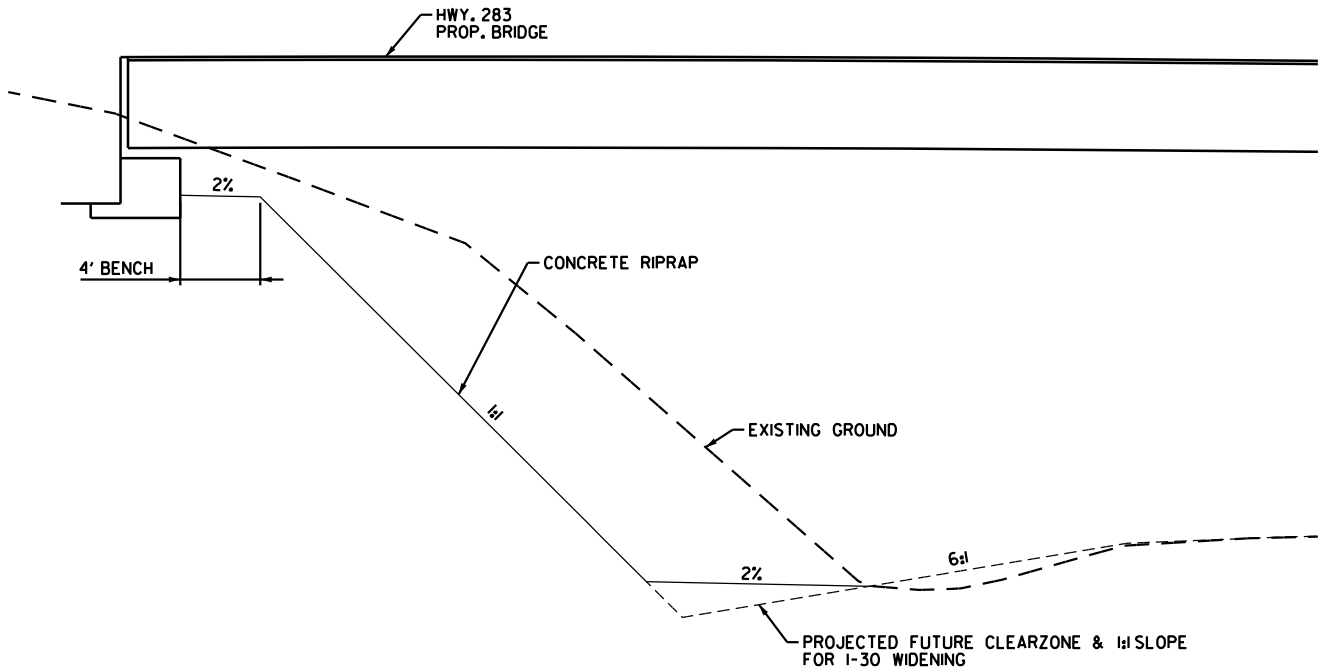


NOTE: REFER TO STD. DWG. GR-9
AND CROSS SECTIONS FOR SLOPE
REQUIREMENTS BEHIND GUARDRAIL.

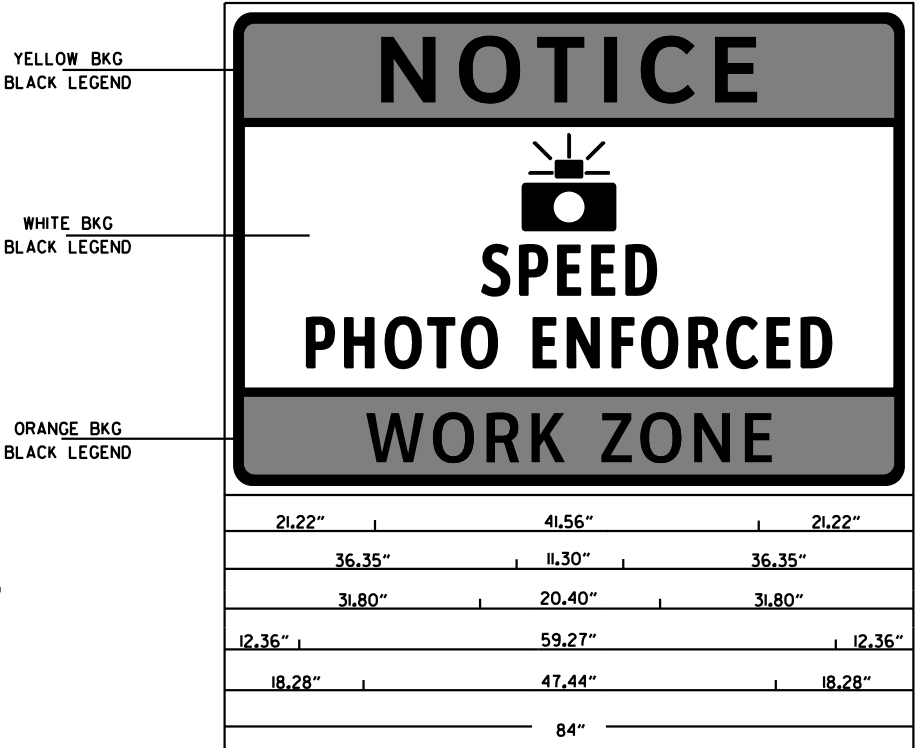
WIDENING FOR GUARDRAIL AT HWY. 283 BRIDGE



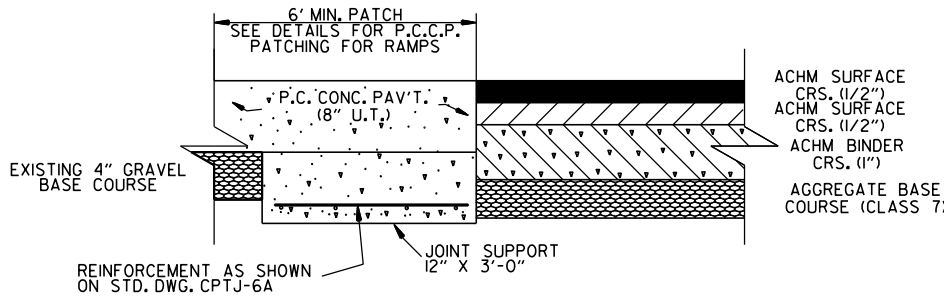
SECTION OF APPROACH SLAB
(FOR ASPHALT PAVEMENT)



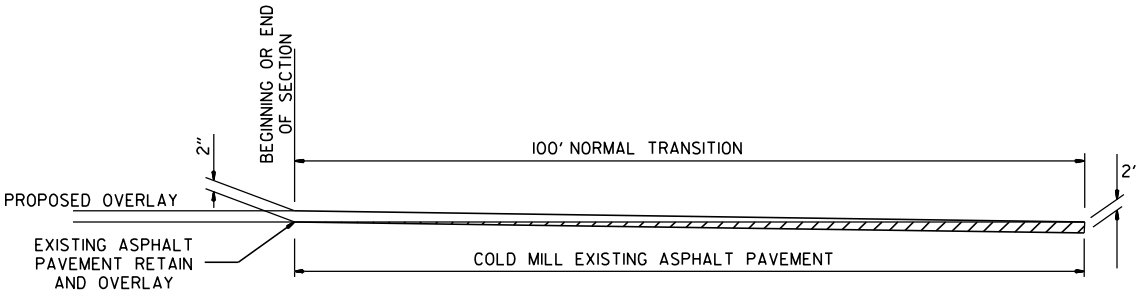
ABUTMENT GRADING DETAIL



WZ-1 (INTERSTATE) SIGN

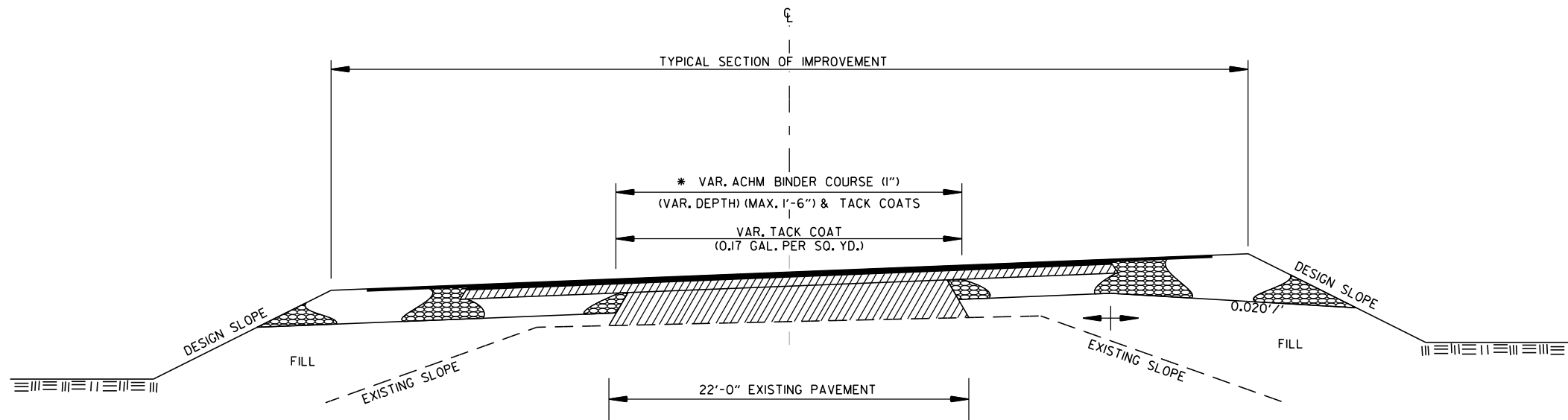


DETAILS OF JOINT SUPPORT
(PCCP TO ACHM)



DETAIL FOR TRANSITIONS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	8	136
SPECIAL DETAILS						



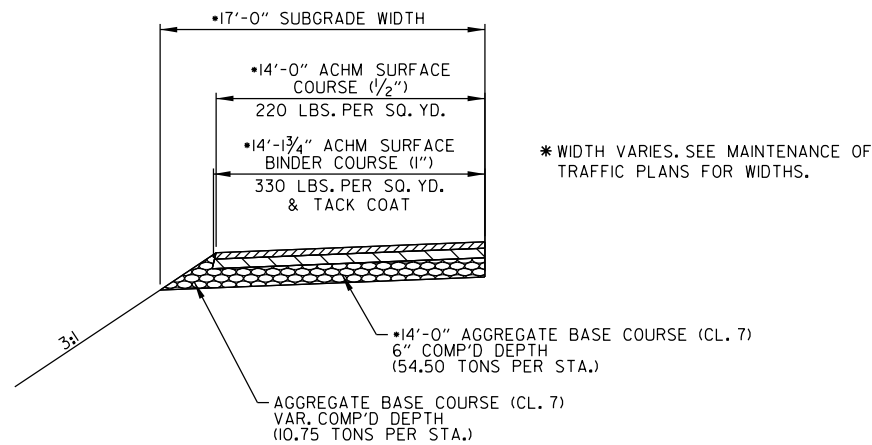
* 6" AGGREGATE BASE COURSE (CLASS 7)
TO BE REPLACED WITH ACHM BINDER COURSE (1")

METHOD OF RAISING GRADE (M.R.G.)

STA. 102+40.00 - STA. 107+02.64
STA. 114+28.96 - STA. 115+60.00

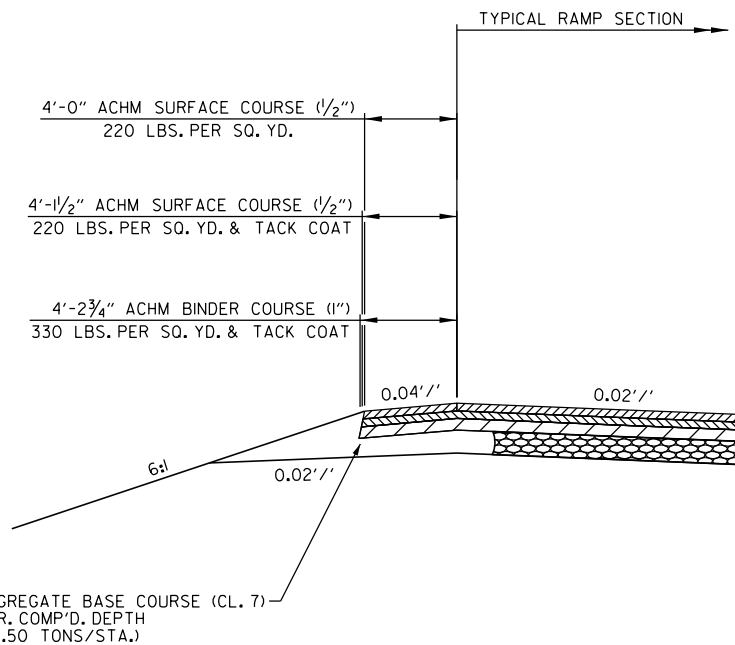
NOTES:

- (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.



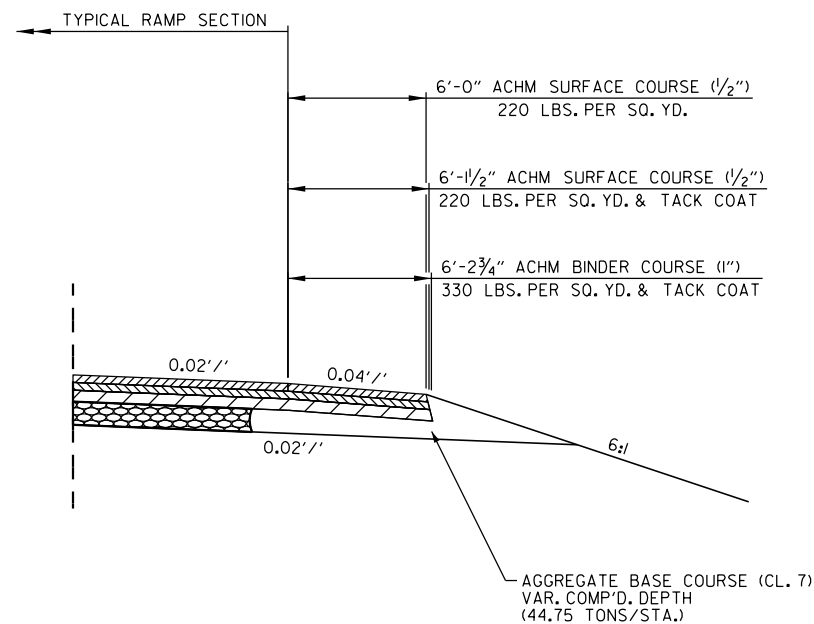
TEMPORARY WIDENING FOR MAINTENANCE OF TRAFFIC

STA. 100+40.00 - STA. 108+03.59 RT.
STA. 113+41.52 - STA. 114+89.47 RT.
STA. 115+51.06 - STA. 116+80.87 RT.
RAMP 1 STA. 200+00.00 - STA. 201+73.83 RT.
RAMP 1 STA. 200+00.00 - STA. 201+44.29 LT.
RAMP 2 STA. 202+32.43 - STA. 208+94.00 LT.
RAMP 2 STA. 202+47.85 - STA. 206+27.05 RT.
RAMP 3 STA. 202+78.65 - STA. 205+39.08 RT.
RAMP 4 STA. 199+70.00 - STA. 201+87.16 LT.
RAMP 4 STA. 199+70.00 - STA. 201+45.00 RT.



FULL DEPTH SHOULDERS FOR MAINTENANCE OF TRAFFIC

RAMP 1 STA. 201+00.00 - STA. 202+17.08 LT.
RAMP 4 STA. 201+45.00 - STA. 201+57.34 RT.
RAMP 4 STA. 201+57.34 - STA. 202+46.13 RT.

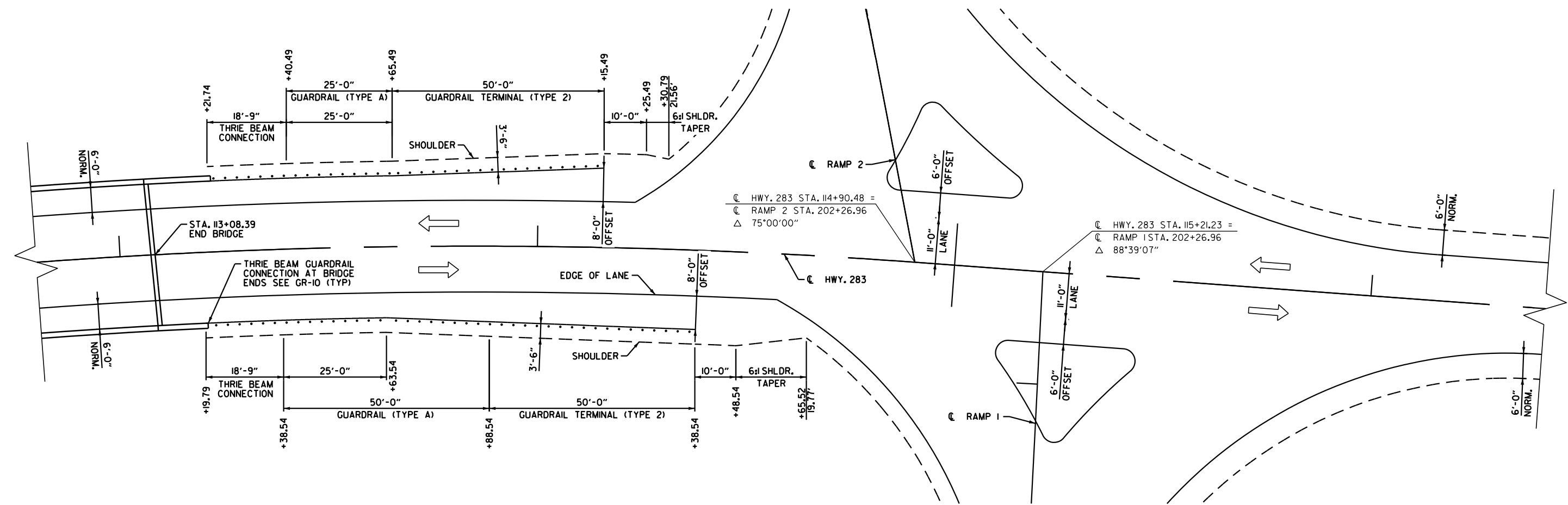
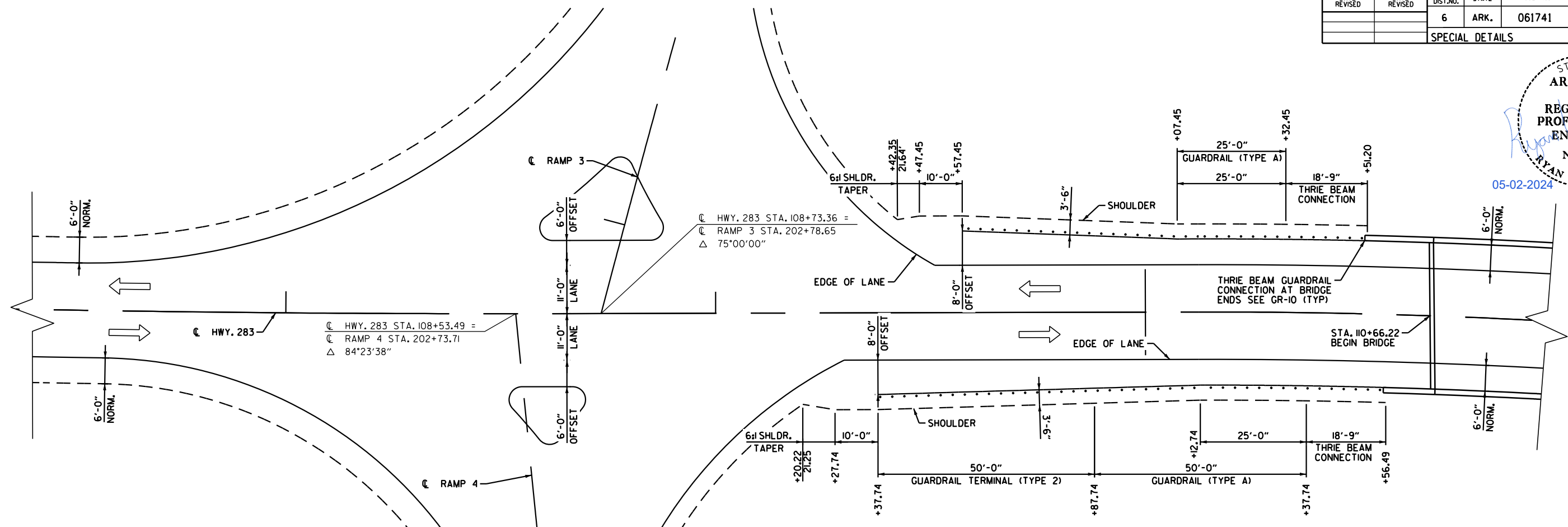


FULL DEPTH SHOULDERS FOR MAINTENANCE OF TRAFFIC

RAMP 2 STA. 202+38.34 - STA. 203+50.25 RT.
RAMP 2 STA. 203+50.25 - STA. 207+94.00 RT.
RAMP 3 STA. 203+63.62 - STA. 204+50.00 LT.

SPECIAL DETAILS

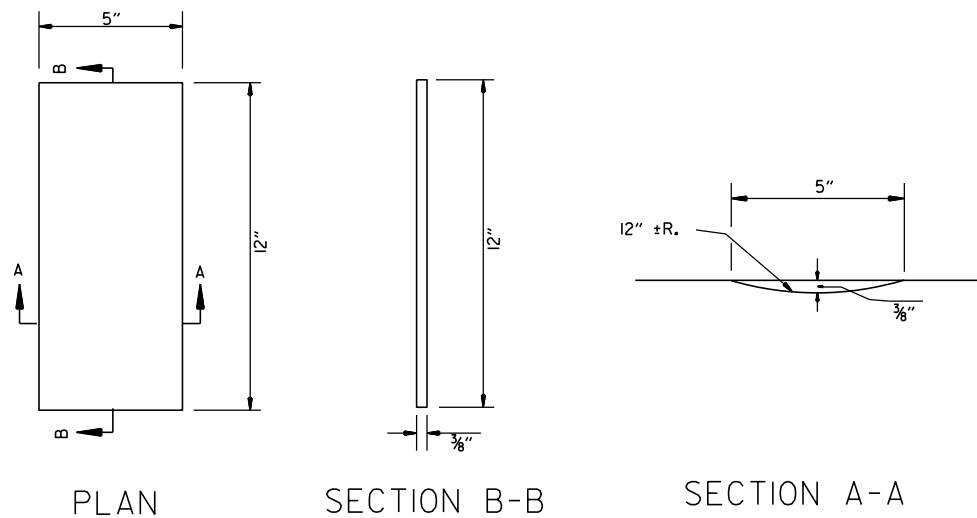
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	9	136
SPECIAL DETAILS						



WIDENING FOR GUARDRAIL AT BRIDGE ENDS - HWY. 283 BRIDGE

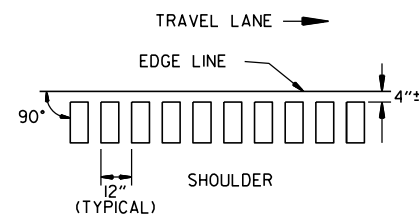
SPECIAL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	10	136
SPECIAL DETAILS						

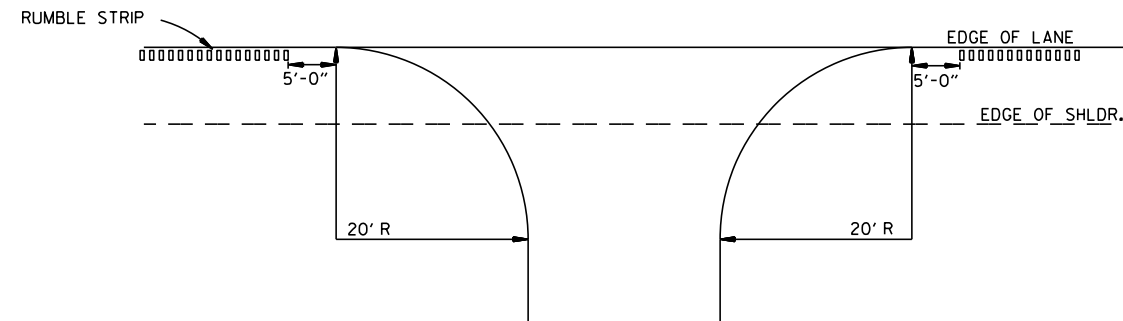


PLAN SECTION B-B SECTION A-A

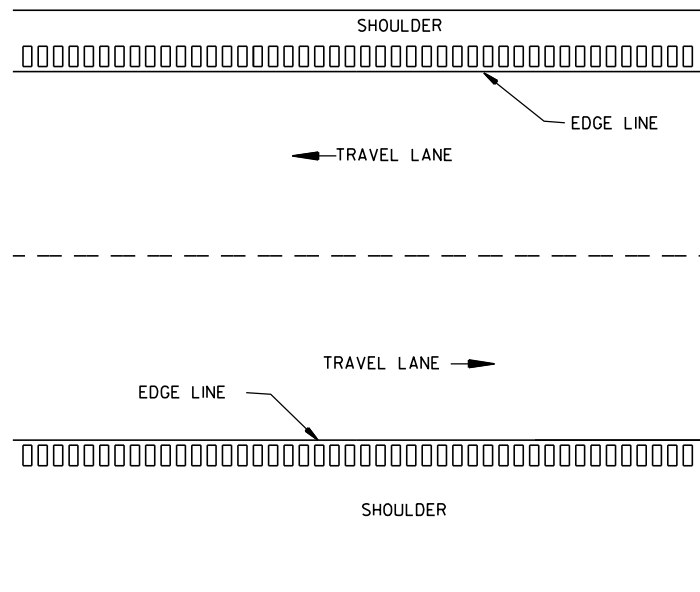
DETAILS OF RUMBLE STRIPS



LOCATION PLAN OF RUMBLE STRIPS
LEFT OR RIGHT SHOULDER



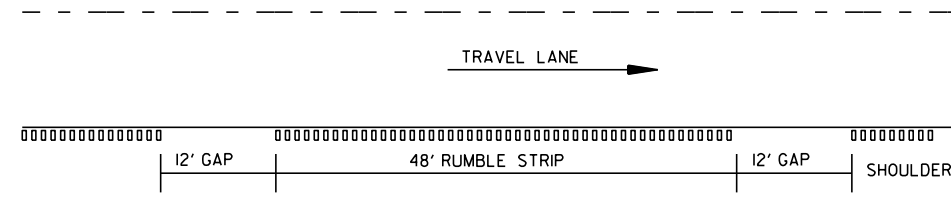
DETAIL FOR RUMBLE STRIP GAP
AT DRIVEWAY TURNOUTS



PLAN VIEW

GENERAL NOTES

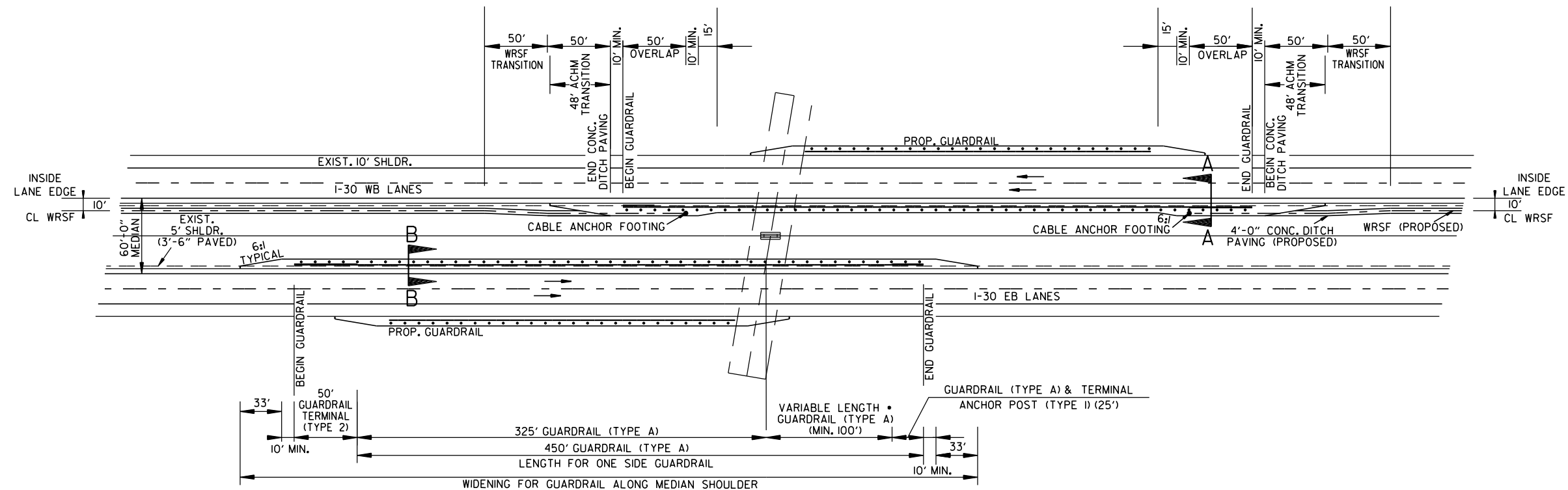
1. RUMBLE STRIPS SHALL NOT BE INSTALLED ON CURB SECTIONS, BRIDGE DECKS, APPROACH SLABS, INTERSECTING STREETS OR ROADWAYS, RESIDENTIAL OR COMMERCIAL DRIVEWAYS OR ACROSS TRANSVERSE JOINTS OF CONCRETE SHOULDERS.
2. RUMBLE STRIPS SHALL NOT BE INSTALLED ON A PAVED SHOULDER THAT IS USED AS A DECELERATION LANE FOR THE LENGTH DEEMED APPROPRIATE BY THE ENGINEER.
3. THE 4" OFFSET FROM THE EDGE LINE MAY BE INCREASED TO AVOID LONGITUDINAL JOINTS. IN ALL CASES, THE LATERAL DEVIATION FROM THE PLANNED OFFSET SHOULD BE KEPT TO A MINIMUM.
4. RUMBLE STRIPS SHALL BE MEASURED BY THE LINEAR FOOT LONGITUDINALLY ALONG THE SHOULDER. PAYMENT SHALL ONLY INCLUDE THAT PORTION OF THE SHOULDER ON WHICH RUMBLE STRIPS HAVE BEEN CONSTRUCTED. NO MEASUREMENT OR PAYMENT WILL BE MADE FOR GAPS, DRIVEWAYS, TURNOUTS, OR OTHER PUBLIC ROAD INTERSECTIONS WHERE RUMBLE STRIPS HAVE NOT BEEN CONSTRUCTED.
5. THE 3/8" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 12" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.



NOTE: GAP PATTERN SHALL BE ADJUSTED BY THE ENGINEER IN THE FIELD ALLOWING FOR DRIVEWAYS TO SERVE AS THE GAP.

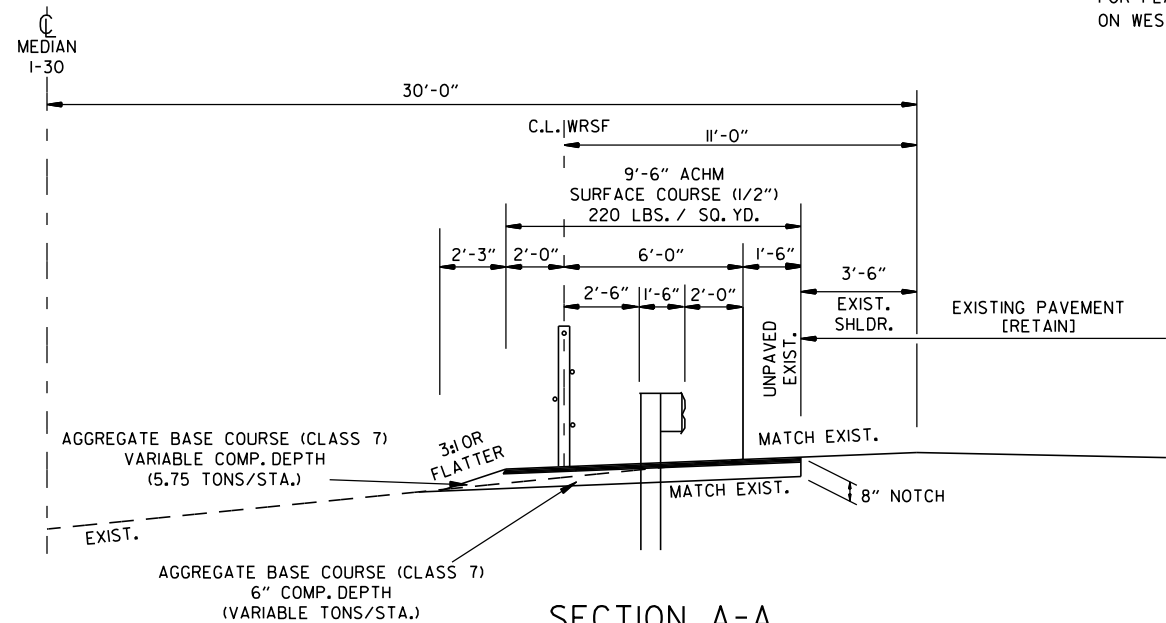
DETAIL FOR GAP PATTERN RUMBLE STRIP

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	II	136
SPECIAL DETAILS						

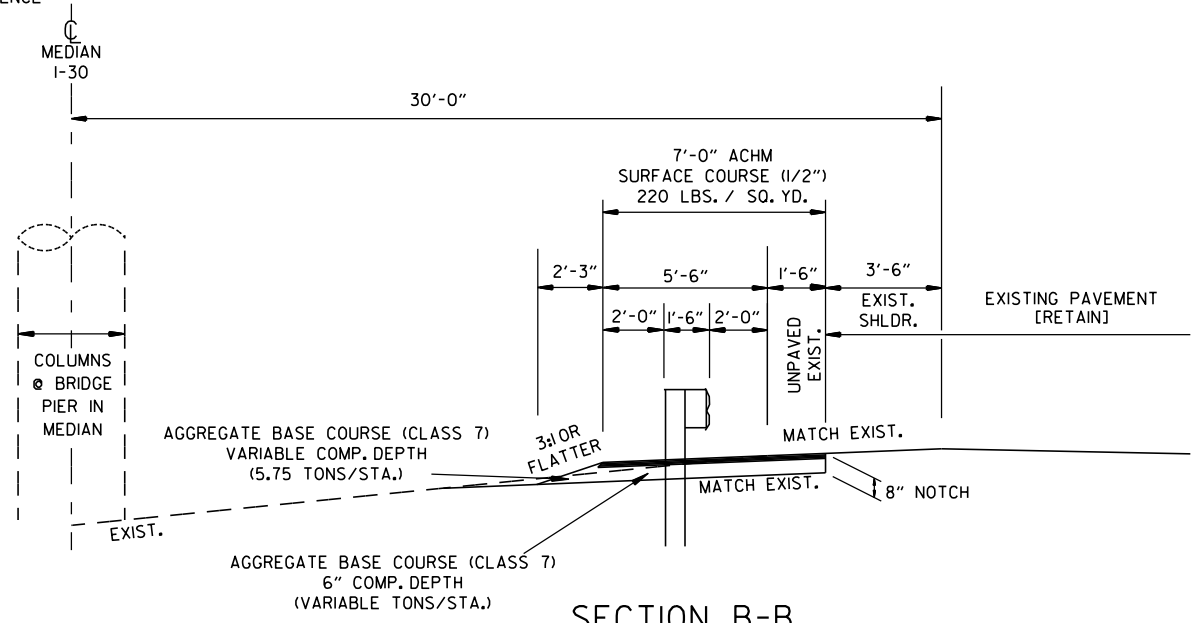


DETAIL AT OVERPASSES

NOTE: REFER TO PLAN SHEETS
FOR PLACEMENT OF WIRE ROPE SAFETY FENCE
ON WESTBOUND FORESLOPES.



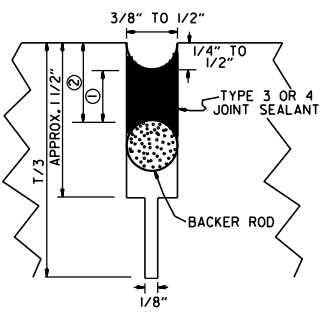
SECTION A-A



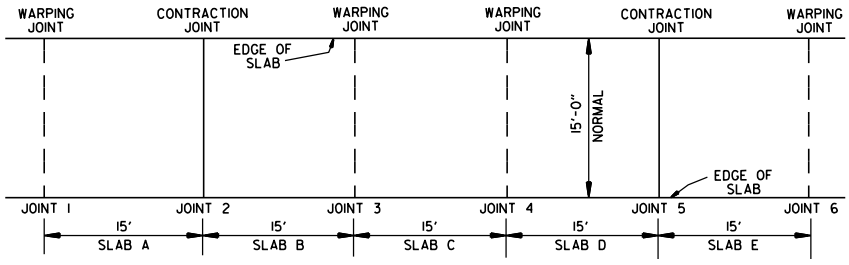
SECTION B-B

DETAILS OF INSIDE SHOULDER WIDENING FOR GUARDRAIL
AND OVERLAPS WITH ENDS OF WIRE ROPE SAFETY FENCE

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	12	136
SPECIAL DETAILS						



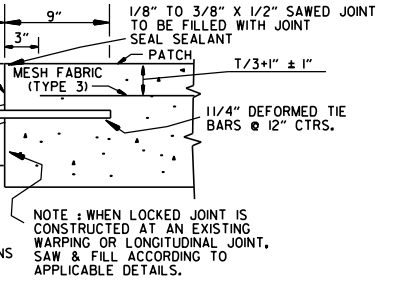
DETAIL OF SAWED CONTRACTION JOINT



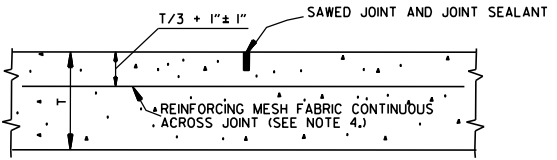
PLAN OF PAVEMENT REPAIR
(FULL SLABS)

TYPICAL SLAB REPLACEMENT EXAMPLES

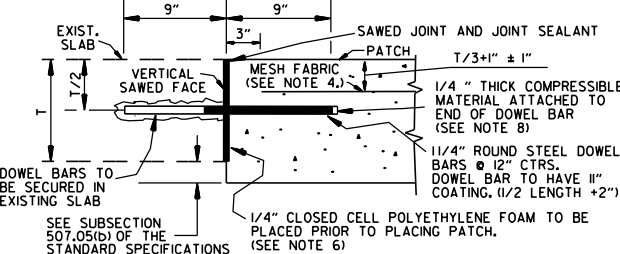
SLAB(S) TO BE RECONSTRUCTED	TYPE OF JOINT TO BE CONSTRUCTED					
	JOINT 1	JOINT 2	JOINT 3	JOINT 4	JOINT 5	JOINT 6
A OR D	LOCKED	FREE	FREE	LOCKED	FREE	FREE
B OR E	FREE	FREE	LOCKED	LOCKED	FREE	LOCKED
A & B OR D & E	LOCKED	CONTRACTION	LOCKED	LOCKED	CONTRACTION	LOCKED
B & C	FREE	FREE	WARPING	LOCKED	FREE	FREE
B, C & D	FREE	FREE	WARPING	WARPING	FREE	FREE
C	FREE	FREE	LOCKED	LOCKED	FREE	FREE



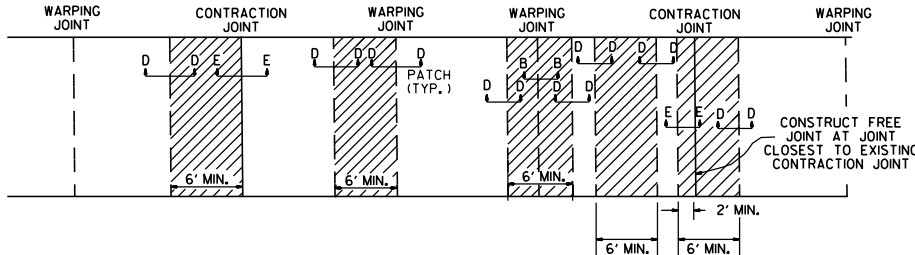
SECTION D-D



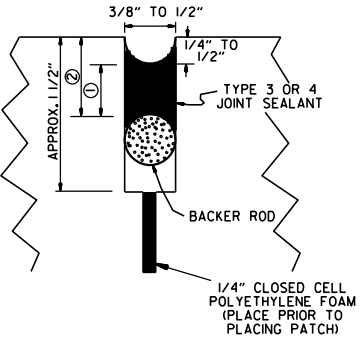
SECTION B-B
WARPING JOINT



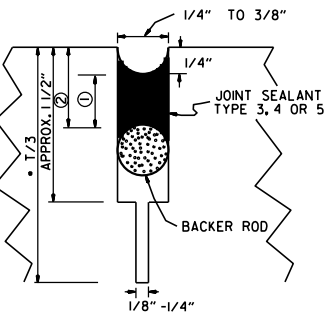
SECTION E-E
FREE TRANSVERSE JOINT



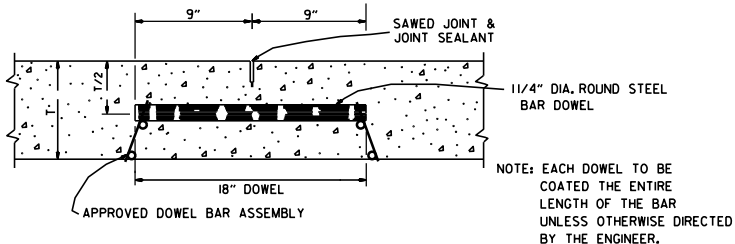
PLAN OF PAVEMENT REPAIR
(PARTIAL SLABS)



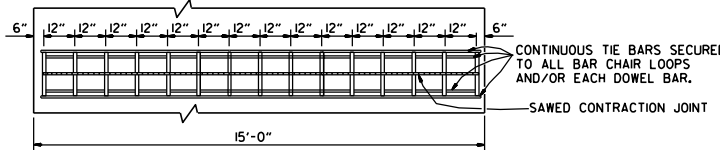
DETAIL OF SAWED FREE
TRANSVERSE JOINT



DETAIL OF SAWED WARPING JOINT



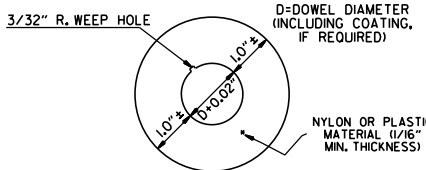
SECTION C-C



15' PAVEMENT
15 DOWELS
PLAN - CONTRACTION JOINT

NOTE: FOR 15' PAVEMENT USE 15 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 EPOXY
RETENTION DISK

NOTE: EPOXY RETENTION DISK SHALL BE SLIPPED TIGHTLY OVER THE BARS AND FIRMLY AGAINST THE SLAB FACE AFTER INSERTING TIE BAR AND EPOXY INTO HOLE

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

JOINT CONFIGURATION FOR
TYPE 5 JOINT SEALANT

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

- NOTES FOR PAVEMENT REPAIR:
- EXACT SIZE AND LOCATION OF AREA TO BE REPAIRED SHALL BE DETERMINED BY THE ENGINEER. ALL PATCHES SHALL EXTEND ACROSS THE FULL WIDTH OF THE SLAB AS SHOWN IN THESE DETAILS.
 - THE FINAL SURFACE FINISH FOR PATCHES SHALL MATCH THAT OF THE EXISTING PAVEMENT.
 - WHEN AREA TO BE REPAIRED INCLUDES AN EXISTING JOINT, THE JOINT SHALL BE RECONSTRUCTED TO THE CONFIGURATION SHOWN IN THESE DETAILS.
 - ALL REPAIRED AREAS SHALL BE REINFORCED WITH MESH FABRIC AS SHOWN. DEPTH OF MESH PLACEMENT SHALL HAVE A TOLERANCE OF +1 INCH. MESH FABRIC SHALL BE 12 X 12 - W4 X W4 WELDED WIRE FENCE (MINIMUM WIRE SIZE). LAPS SHALL BE MINIMUM 6" IN EACH DIRECTION. MINIMUM COVER AT EDGES SHALL BE 2".
 - FORMS FOR PAVEMENT REPAIR SHALL BE METAL UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - CLOSED CELL POLYETHYLENE FOAM SHALL BE SECURED TO SAWED FACE OF EXISTING P.C.C. PAVEMENT WITH ADHESIVE OR ADHESIVE TAPE AS APPROVED BY THE ENGINEER AND TRIMMED FLUSH WITH TOP OF EXISTING SLAB TO PREVENT DISPLACEMENT WHEN THE PATCH IS BEING PLACED.
 - WHEN THE PATCH IS PLACED OVER GRANULAR BASE, REMOVE ANY LOOSE BASE MATERIAL, COMPACT REMAINING BASE AS NECESSARY AND PLACE PATCH. WHEN PATCH IS PLACED OVER TREATED BASE, REMOVE ANY LOOSE BASE MATERIAL AND PLACE PATCH.
 - 1/4" THICK COMPRESSIBLE MATERIAL SHALL BE ATTACHED TO THE ENDS OF DOWEL BARS AT ALL FREE TRANSVERSE JOINTS (SEE SECTION E-E). THE MATERIAL SHALL BE THE SAME DIAMETER AS THE DOWEL BAR. A PLASTIC CAP OF OTHER TYPE OF DEVICE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
 - DOWEL BARS SHALL BE PLACED IN ACCORDANCE WITH THE DIMENSIONS SHOWN. A TOLERANCE OF PLUS OR MINUS ONE INCH WILL BE ALLOWED FOR VERTICAL AND LATERAL PLACEMENT AND A TOLERANCE OF PLUS OR MINUS 1/4" WILL BE ALLOWED FOR THE TILT AND SKEW.

DETAILS OF PORTLAND CEMENT CONCRETE PAVEMENT PATCHING FOR RAMPS

NOTES:
STATION AND OFFSETS LABELS ARE BASED
ON HWY. 283 CENTERLINE ALIGNMENT.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	13	136
SPECIAL DETAILS						



STA. 201+45.00
BEGIN CONST. RAMP 4

STA. 204+50.00
END CONST. RAMP 3

CL HWY. 283 STA. 108+53.49 =
CL RAMP 4 STA. 202+73.71
Δ 84°23'38"

CL HWY. 283 STA. 108+73.36 =
CL RAMP 3 STA. 202+78.65
Δ 75°00'00"

NOTES:
STATION AND OFFSETS LABELS ARE BASED
ON HWY. 283 CENTERLINE ALIGNMENT.

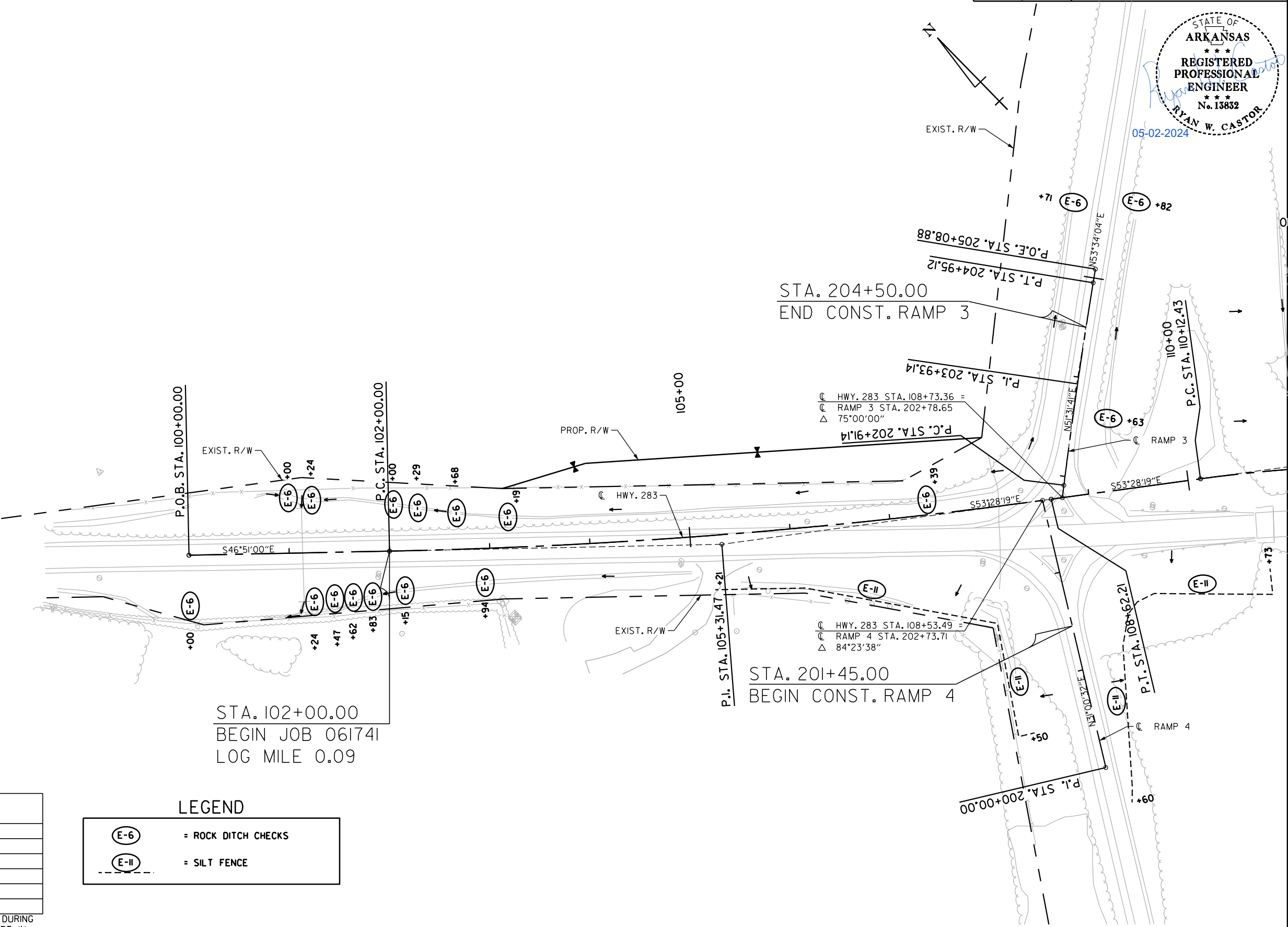
STA. 201+00.00
BEGIN CONST. RAMP 1

CL HWY. 283 STA. 115+21.23 =
CL RAMP 1 STA. 202+26.96
Δ 88°39'07"

INTERSECTION ISLAND DETAILS
SPECIAL DETAILS

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	14	136
TEMPORARY EROSION CONTROL DETAILS						



REVISIONS

DATE OF REVISION	REVISION

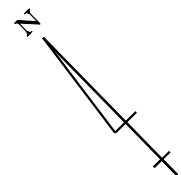
LEGEND

	= ROCK DITCH CHECKS
	= SILT FENCE

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

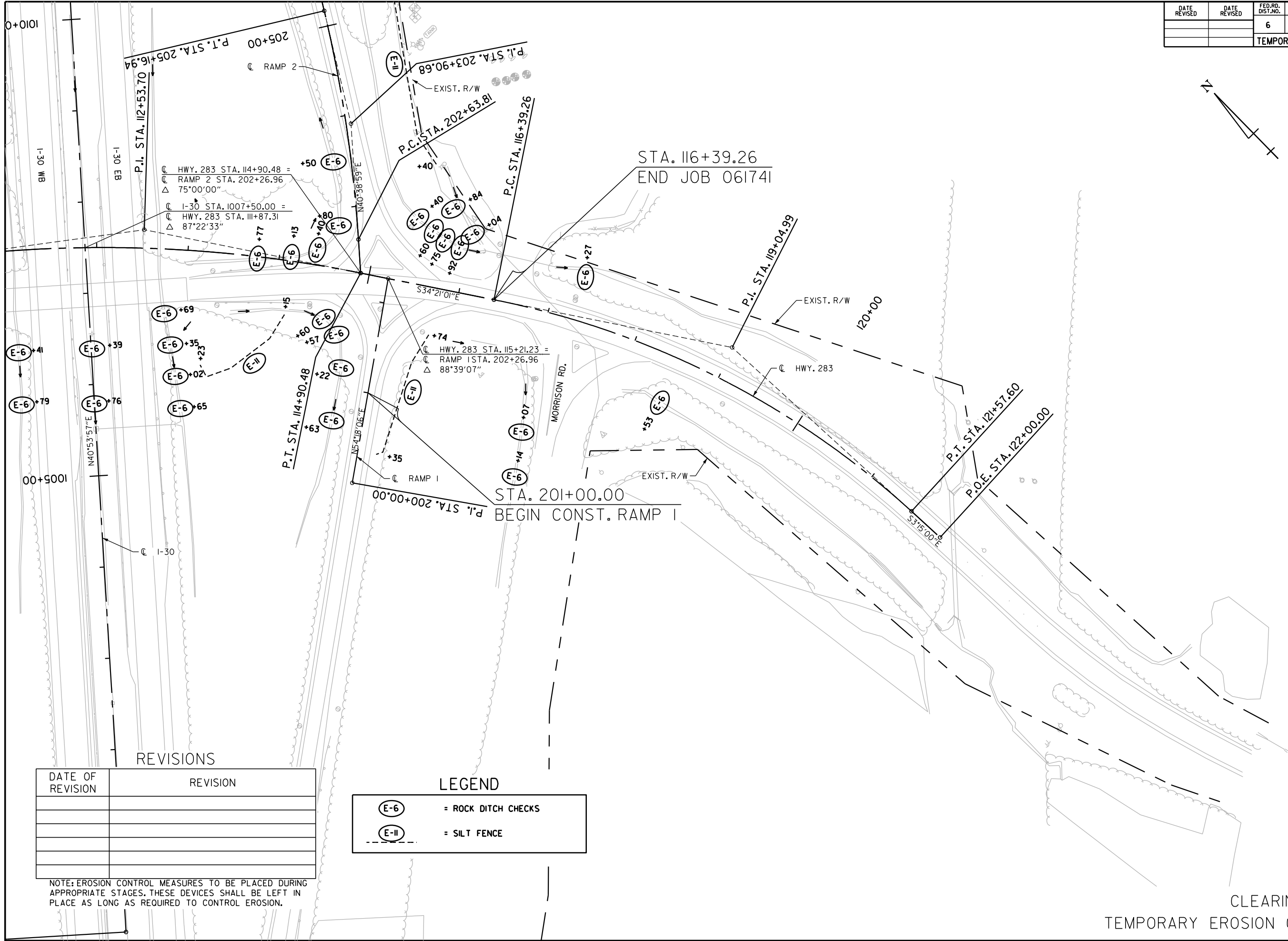
CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	15	136
TEMPORARY EROSION CONTROL DETAILS						



STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No. 13832
RYAN W. CASTOR
05-02-2024



REVISIONS

DATE OF REVISION	REVISION

LEGEND

(E-6)	= ROCK DITCH CHECKS
(E-II)	= SILT FENCE

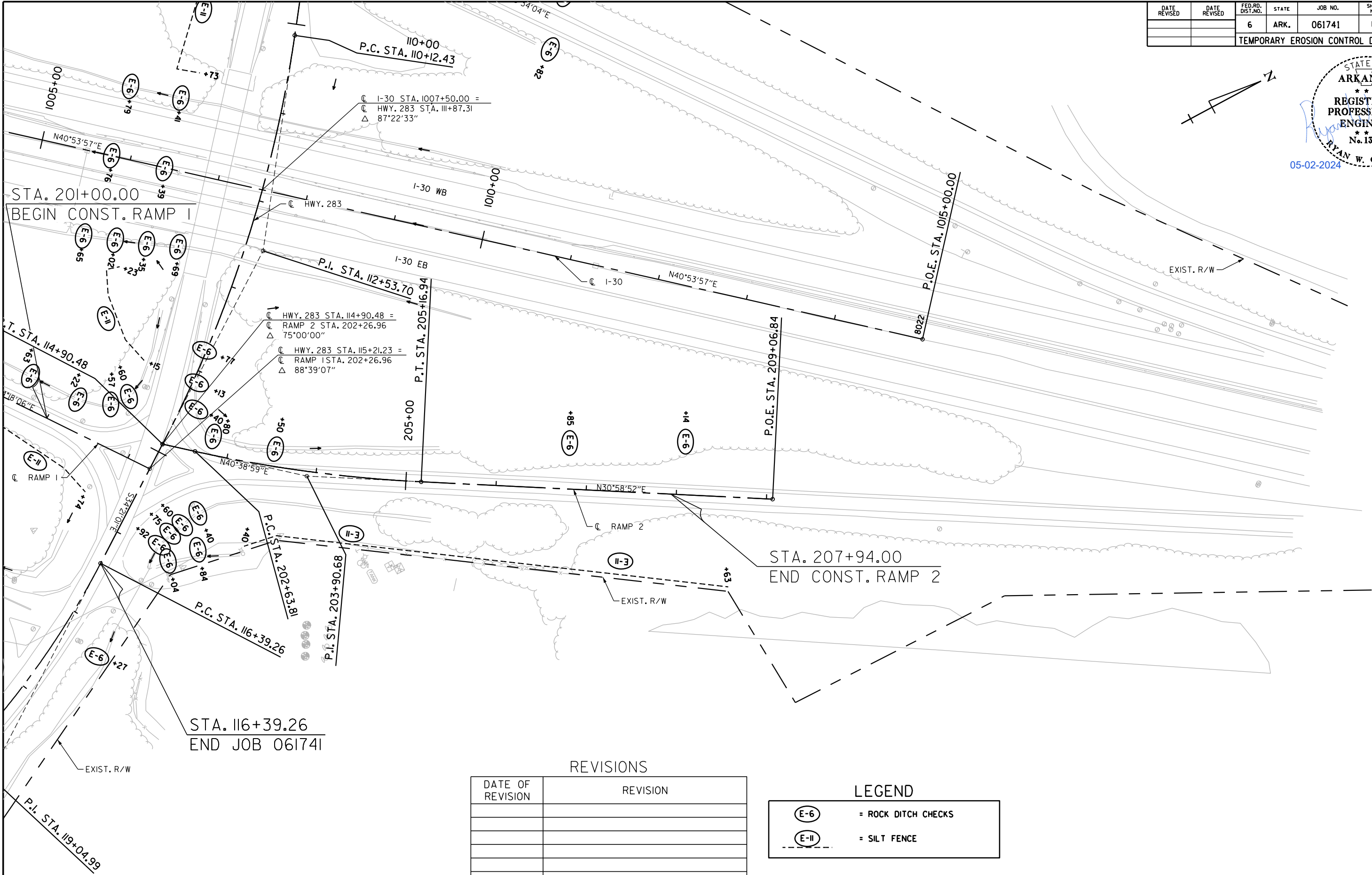
NOTE: EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	16	136
TEMPORARY EROSION CONTROL DETAILS						

STATE OF
ARKANSAS

REGISTERED
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ENGINEER
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RYAN W. CASTOR
05-02-2024



REVISIONS

DATE OF REVISION	REVISION

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

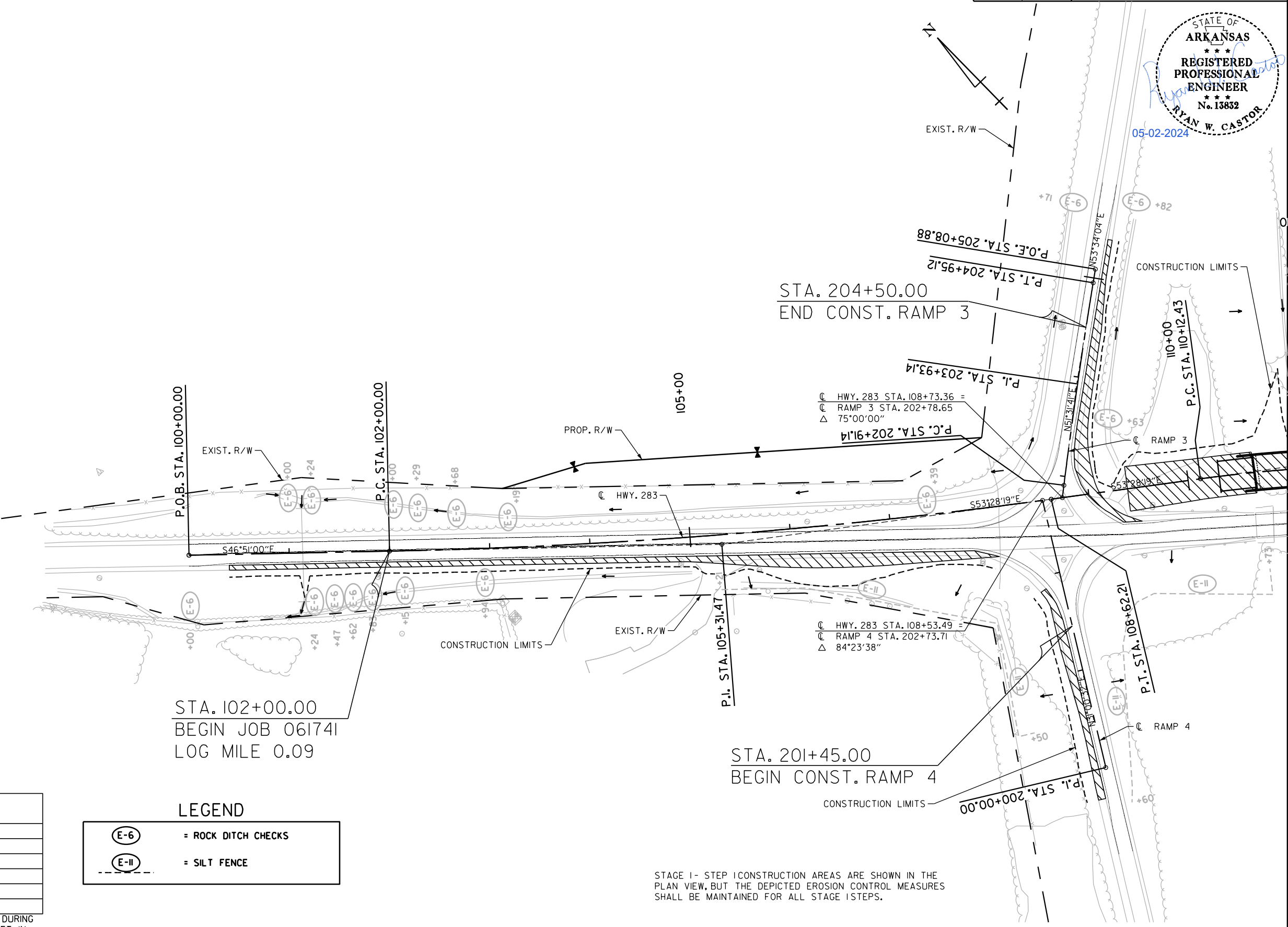
LEGEND

	= ROCK DITCH CHECKS
	= SILT FENCE

CLEARING AND GRUBBING
TEMPORARY EROSION CONTROL DETAILS

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	17	136
TEMPORARY EROSION CONTROL DETAILS						



REVISIONS

DATE OF REVISION	REVISION

LEGEND

	= ROCK DITCH CHECKS
	= SILT FENCE

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

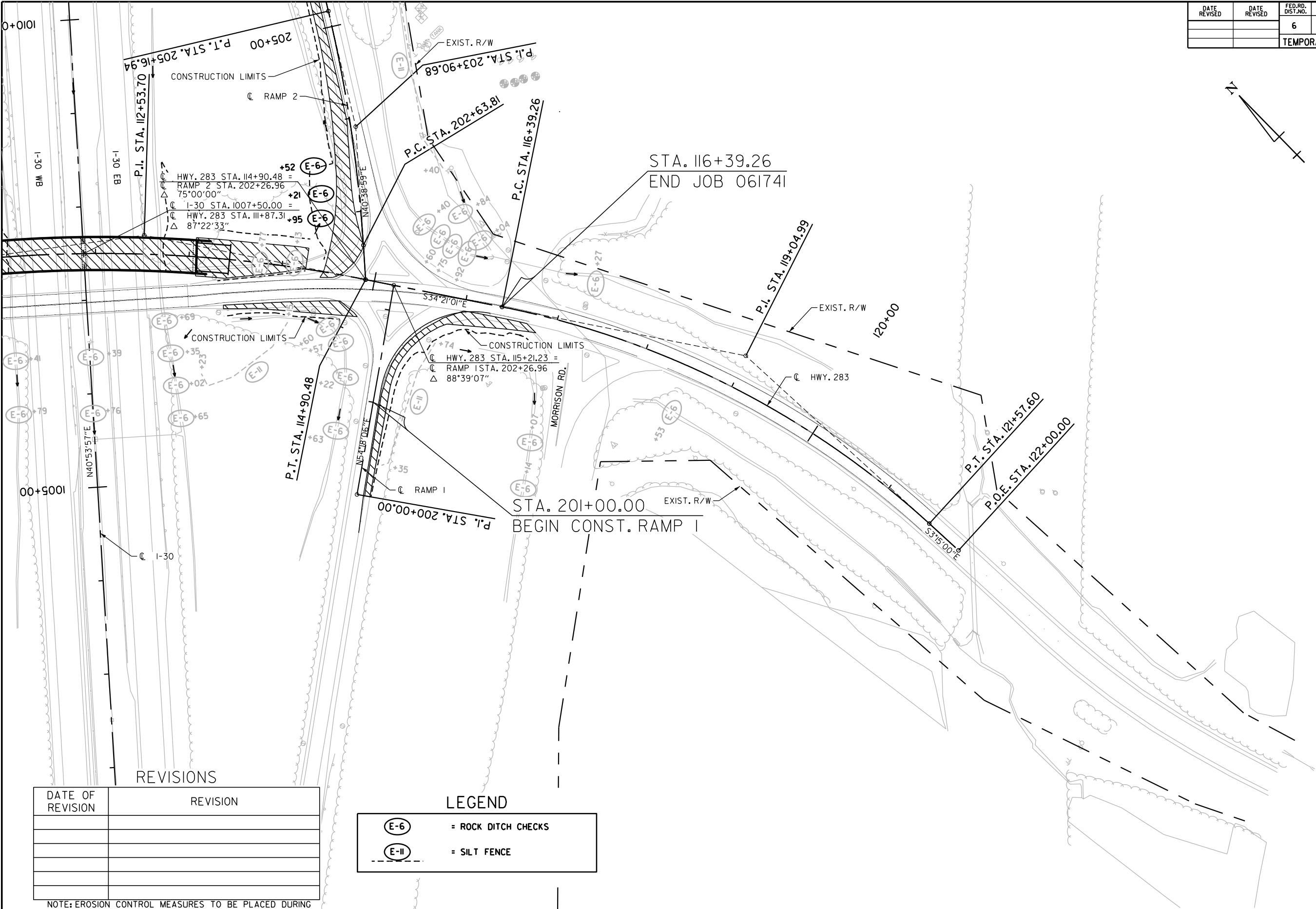
STAGE I - STEP I CONSTRUCTION AREAS ARE SHOWN IN THE PLAN VIEW, BUT THE DEPICTED EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR ALL STAGE I STEPS.

STAGE I - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	18	136
TEMPORARY EROSION CONTROL DETAILS						

STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No. 13832
RYAN W. CASTOR
05-02-2024



REVISIONS

DATE OF REVISION	REVISION

LEGEND

(E-6)	= ROCK DITCH CHECKS
(E-II)	= SILT FENCE

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

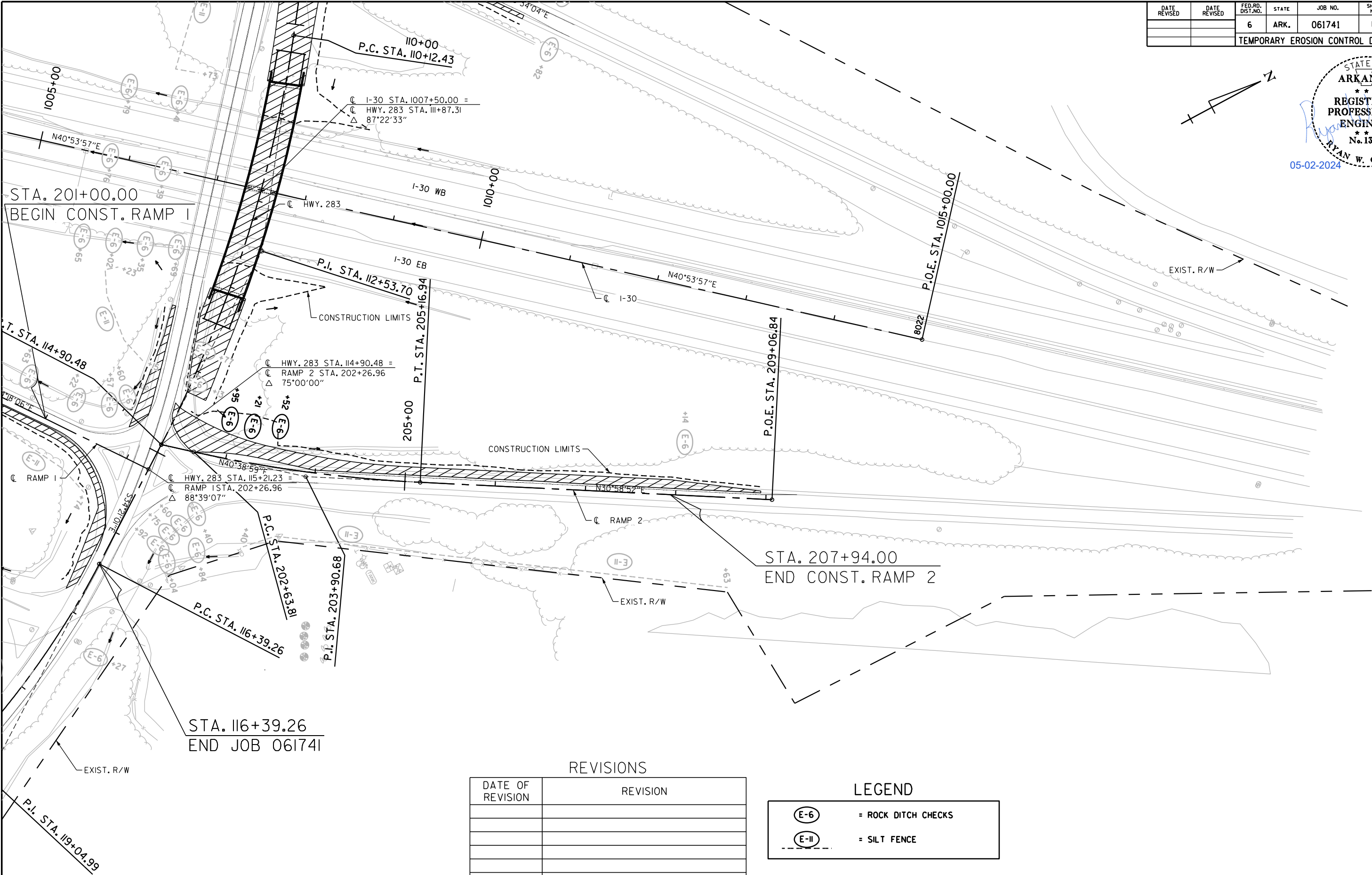
STAGE I - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	19	136
TEMPORARY EROSION CONTROL DETAILS						

STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No. 13832
RYAN W. CASTOR
05-02-2024



REVISIONS

DATE OF REVISION	REVISION

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

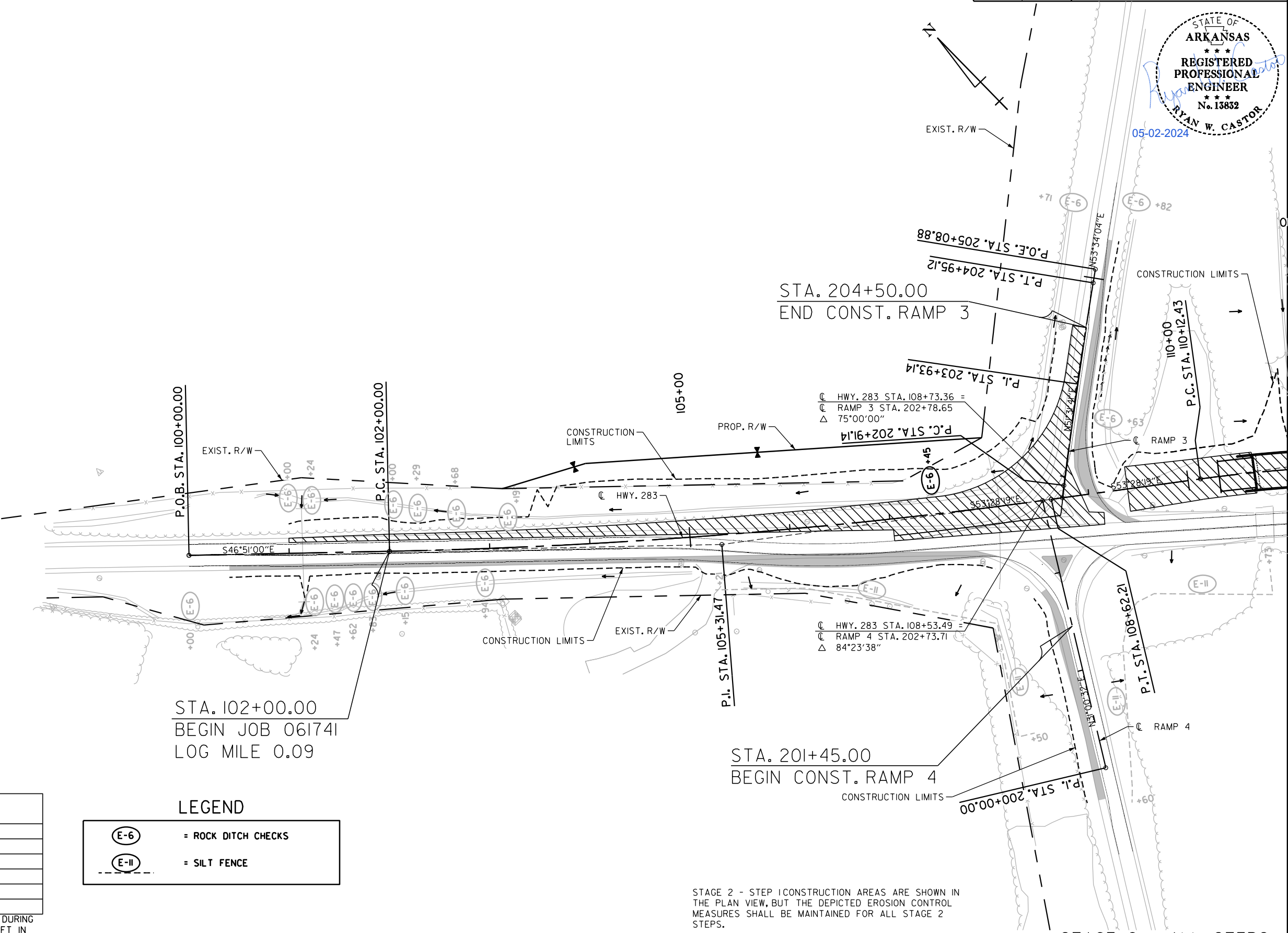
LEGEND

	= ROCK DITCH CHECKS
	= SILT FENCE

STAGE I - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	20	136
TEMPORARY EROSION CONTROL DETAILS						



REVISIONS

DATE OF REVISION	REVISION

LEGEND

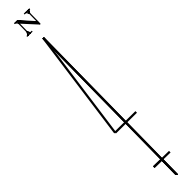
	= ROCK DITCH CHECKS
	= SILT FENCE

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

STAGE 2 - STEP 1 CONSTRUCTION AREAS ARE SHOWN IN THE PLAN VIEW, BUT THE DEPICTED EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR ALL STAGE 2 STEPS.

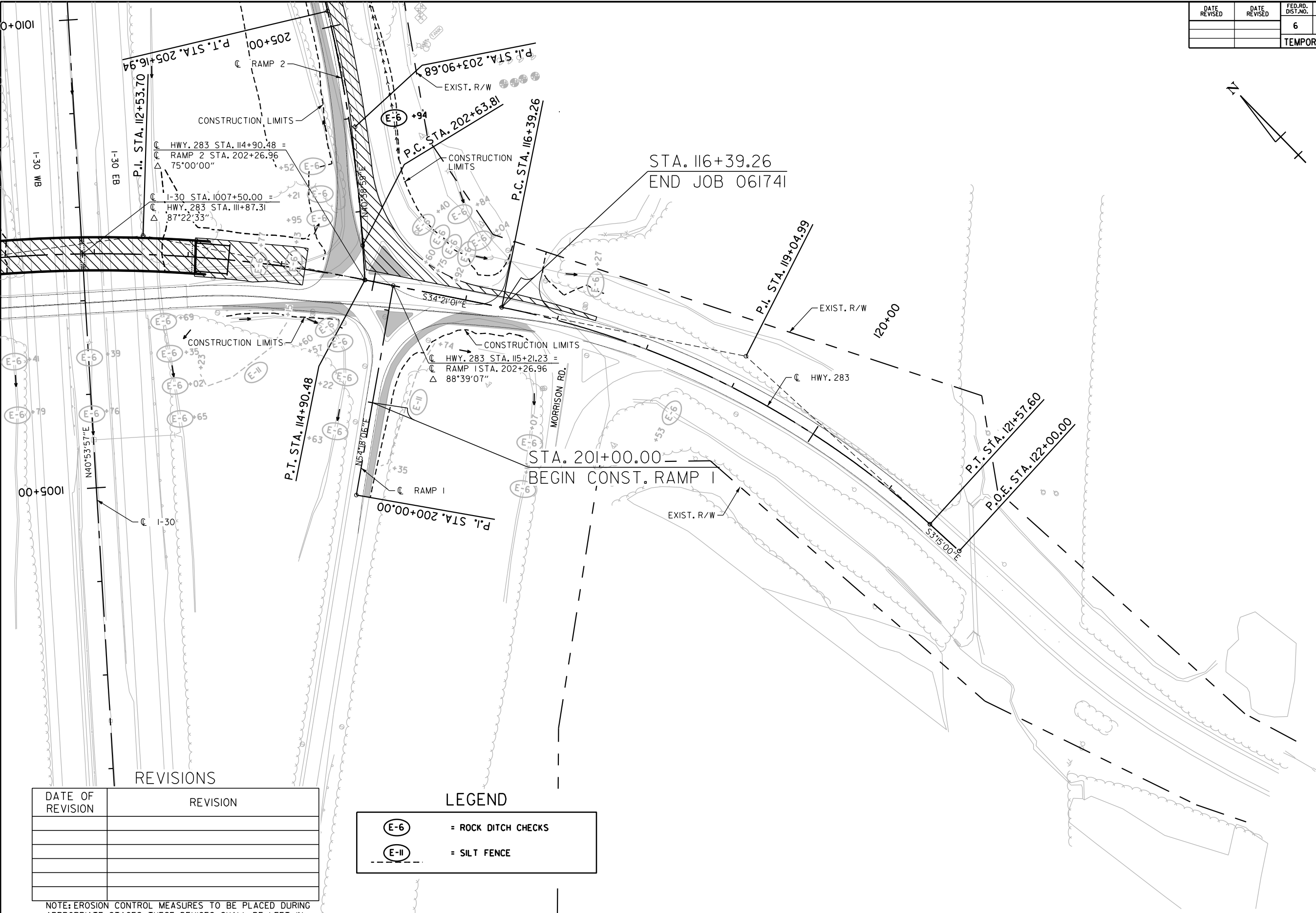
STAGE 2 - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	21	136
TEMPORARY EROSION CONTROL DETAILS						



STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No. 13832
RYAN W. CASTOR
05-02-2024



REVISIONS

DATE OF REVISION	REVISION

LEGEND

(E-6)	= ROCK DITCH CHECKS
(E-II)	= SILT FENCE

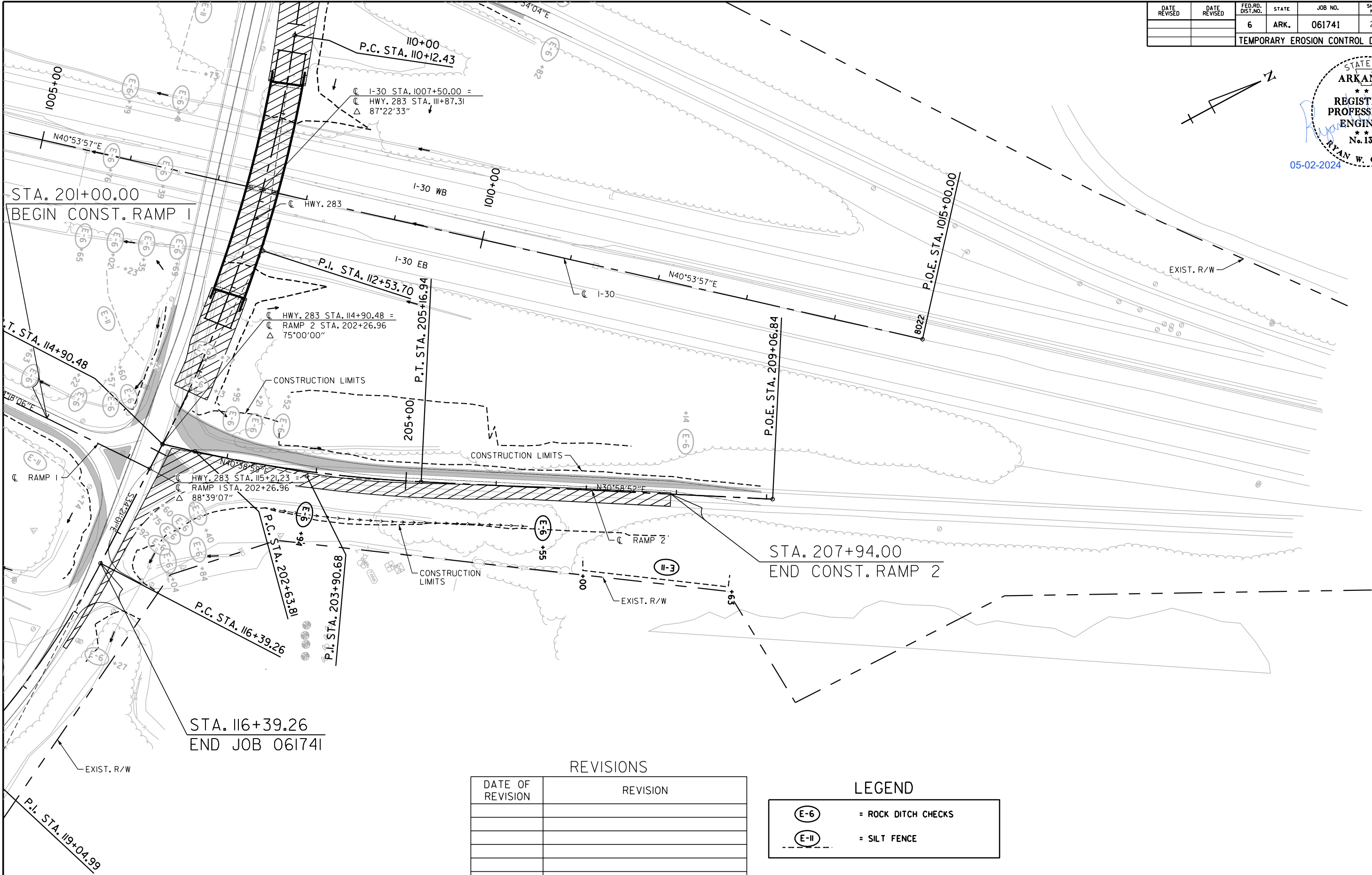
NOTE: EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

STAGE 2 - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	22	136
TEMPORARY EROSION CONTROL DETAILS						

STATE OF
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05-02-2024



REVISIONS

DATE OF REVISION	REVISION

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

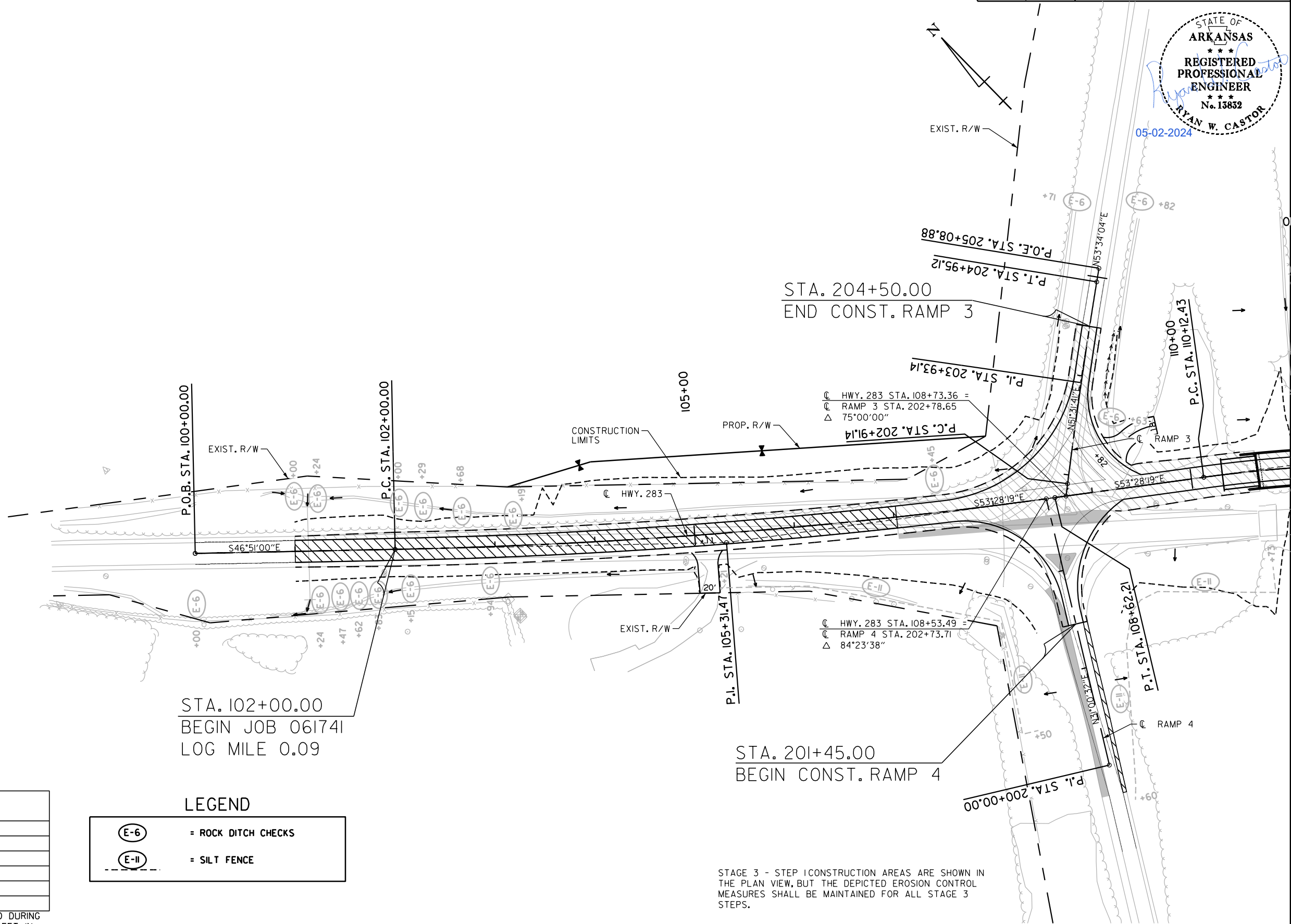
LEGEND

(E-6)	= ROCK DITCH CHECKS
(E-II)	= SILT FENCE

STAGE 2 - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	23	136
TEMPORARY EROSION CONTROL DETAILS						



REVISIONS

DATE OF REVISION	REVISION

LEGEND

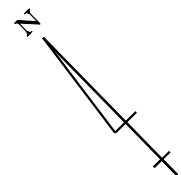
	= ROCK DITCH CHECKS
	= SILT FENCE

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

STAGE 3 - STEP 1 CONSTRUCTION AREAS ARE SHOWN IN THE PLAN VIEW, BUT THE DEPICTED EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR ALL STAGE 3 STEPS.

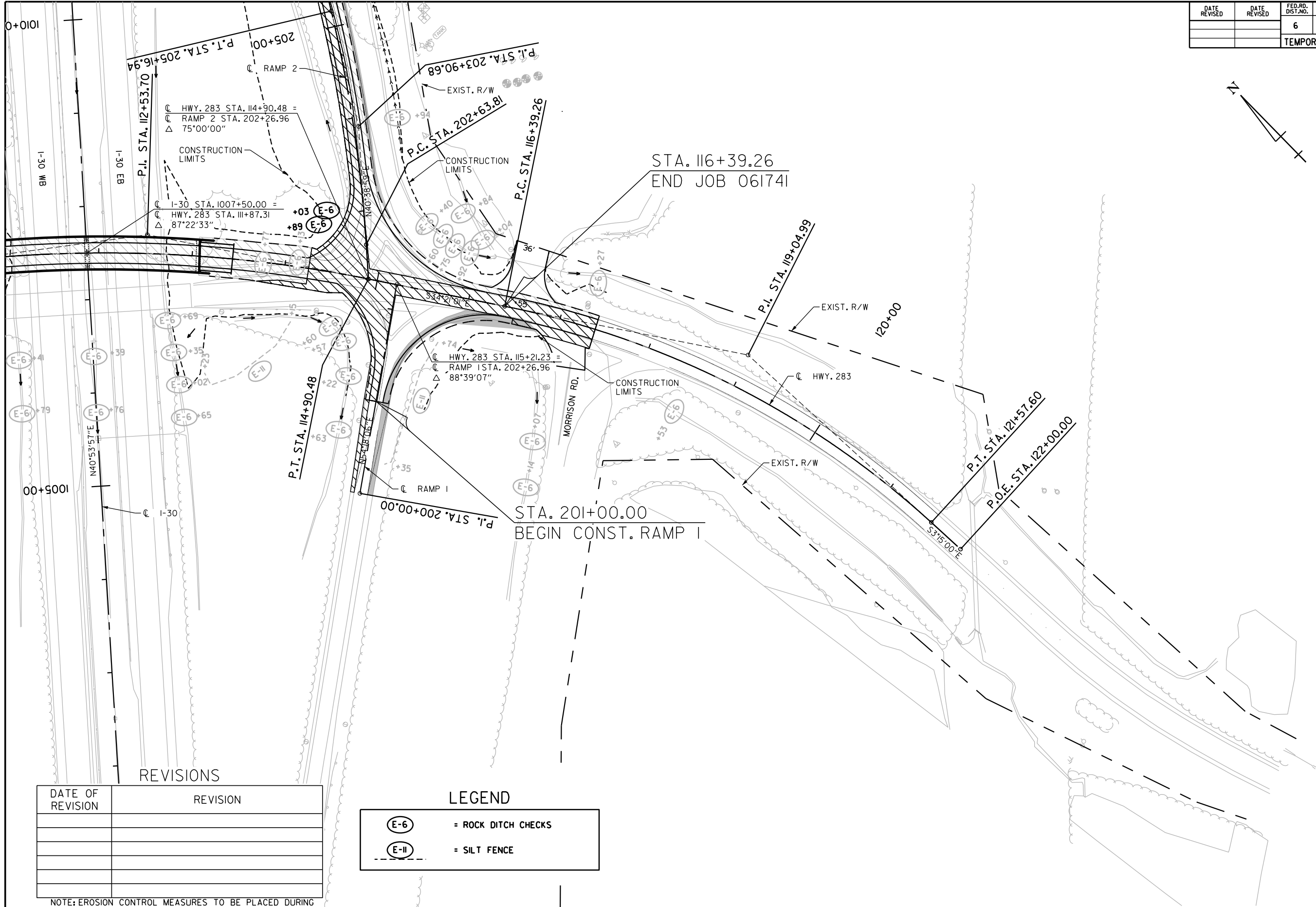
STAGE 3 - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	24	136
TEMPORARY EROSION CONTROL DETAILS						



STATE OF
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05-02-2024



REVISIONS

DATE OF REVISION	REVISION

LEGEND

(E-6)	= ROCK DITCH CHECKS
(E-11)	= SILT FENCE

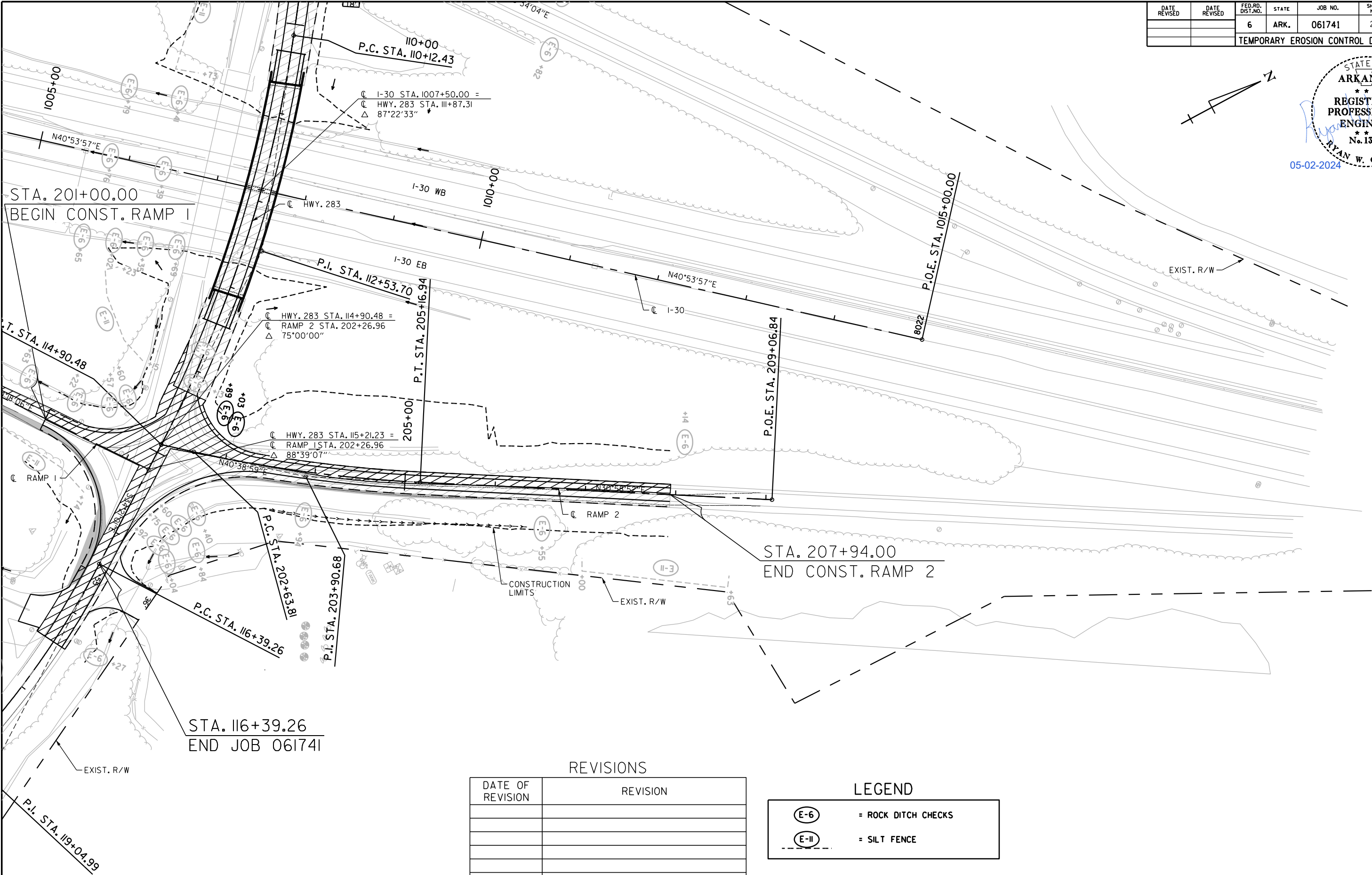
NOTE: EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

STAGE 3 - ALL STEPS
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	25	136
TEMPORARY EROSION CONTROL DETAILS						

STATE OF
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ENGINEER
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RYAN W. CASTOR
05-02-2024



REVISIONS

DATE OF REVISION	REVISION

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

LEGEND

E-6	= ROCK DITCH CHECKS
E-II	= SILT FENCE

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	26	136
MAINTENANCE OF TRAFFIC DETAILS						



SEQUENCE OF CONSTRUCTION

- STAGE 1 STEP 1:
- PLACE ADVANCE WARNING SIGNAGE (TO BE MAINTAINED IN ALL STAGES).
 - SET TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES.
 - CONSTRUCT TEMPORARY WIDENING.
 - START CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.

- STAGE 1 STEP 2:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - REMOVE EXISTING ISLANDS AND CONSTRUCT TEMPORARY PAVEMENT.
 - CONTINUE CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.

- STAGE 2 STEP 1:
- REMOVE EXISTING GUARDRAIL ON NORTH SIDE OF HWY. 283.
 - INSTALL TEMPORARY PRECAST CONCRETE BARRIER AND RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT HWY. 283, RAMP 2 & RAMP 3 TRAFFIC ONTO TEMPORARY PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON THE EAST SIDE OF RAMP 2 AND ON THE NORTH SIDE OF HWY. 283 FROM RAMP 3 TO THE WEST.
 - CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON THE EAST HALF OF RAMP 2 AND ON THE WEST HALF OF RAMP 3.

- STAGE 2 STEP 2:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT RAMP 3 TRAFFIC WEST TO NEWLY CONSTRUCTED PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON THE EAST SIDE OF RAMP 3.
 - CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON THE EAST HALF OF RAMP 3.
 - FINISH CONSTRUCTION OF THE EAST SIDE OF RAMP 2 AND THE HWY. 283 BRIDGE STRUCTURE AND APPROACH PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON I-30.
 - INSTALL GUARDRAIL AND WRSF ALONG I-30.

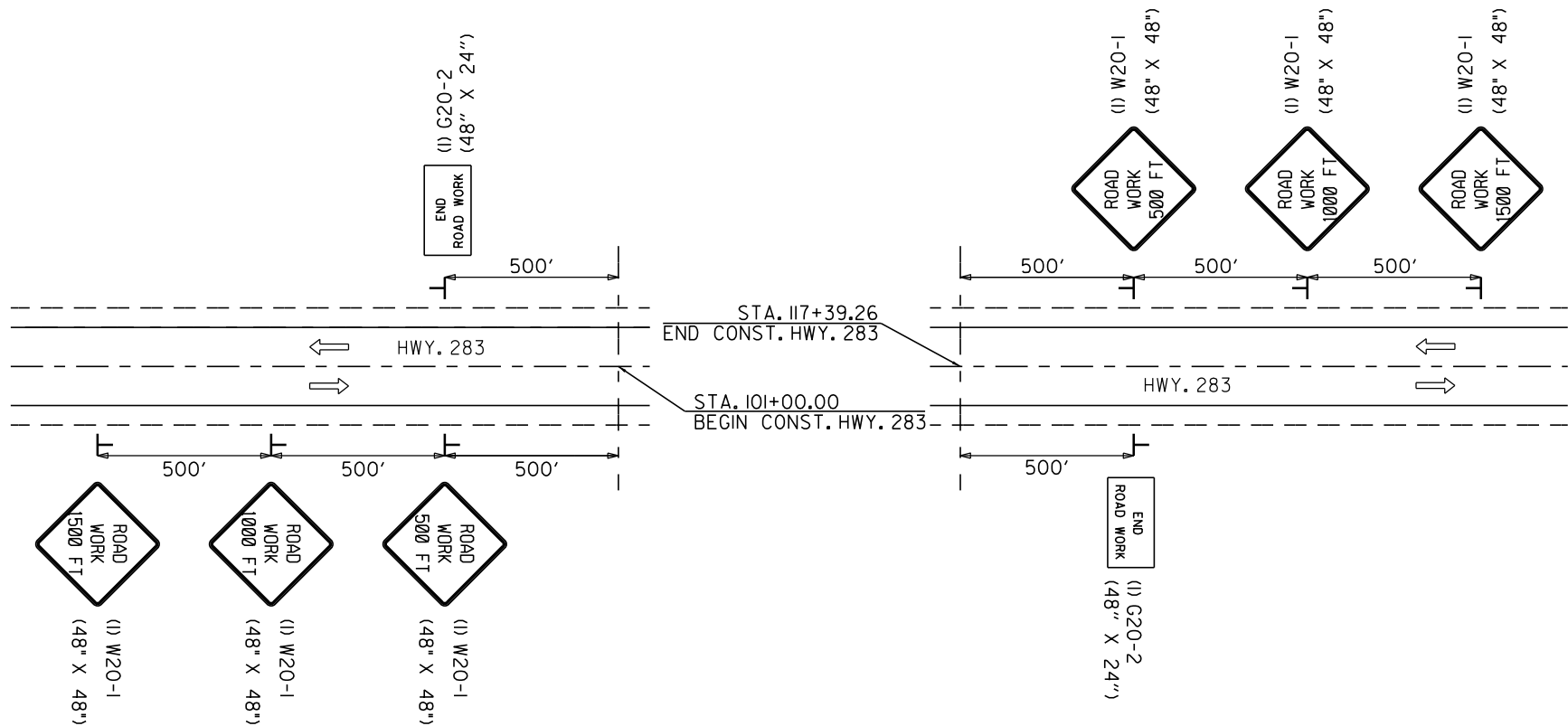
- STAGE 3 STEP 1:
- RELOCATE TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES.
 - REMOVE TEMPORARY PRECAST CONCRETE BARRIER.
 - CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON HWY. 283.
 - SHIFT RAMP 3 AND HWY. 283 TRAFFIC TO NEW PAVEMENT AND BRIDGE STRUCTURE.
 - CONSTRUCT NOTCH AND WIDEN ON THE WEST SIDE OF RAMP 1 AND RAMP 2.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE WEST SIDE OF RAMP 1 AND RAMP 2.
 - CONSTRUCT TEMPORARY WIDENING ON RAMP 4.

- STAGE 3 STEP 2:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT RAMP 2 TO NEW PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON THE EAST SIDE OF RAMP 1 AND RAMP 4.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE EAST SIDE OF RAMP 4.

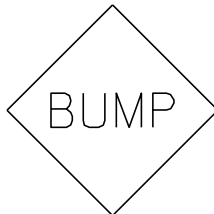
- STAGE 3 STEP 3:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT RAMP 1 TO NEW PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON THE WEST SIDE OF RAMP 4.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE WEST SIDE OF RAMP 4.

- STAGE 4:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - INSTALL GUARDRAIL ON HWY. 283.
 - CONSTRUCT ISLANDS.
 - CONSTRUCT REMAINDER OF FINAL LIFT OF ACHM AND MILL AND OVERLAY TRANSITIONS AT BEGIN AND END OF JOB.
 - REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND INSTALL PERMANENT PAVEMENT MARKINGS.

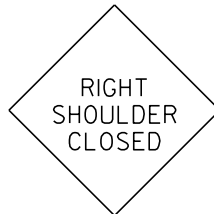
- NOTE:
- MILL AND OVERLAY TRANSITIONS MAY BE CONSTRUCTED USING SHORT TERM, ONE LANE CLOSURES.
 - FOR SHORT TERM, ONE LANE CLOSURES, SEE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD ROADWAY DRAWINGS, STANDARD DRAWING TC-2
 - CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AND INTERSECTING STREETS AT ALL TIMES UNLESS APPROVED BY THE ENGINEER.



R4-1
(24" X 30")



W8-1
(36" X 36")



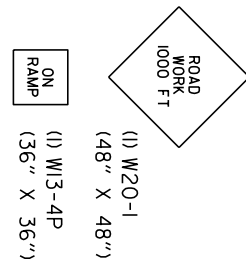
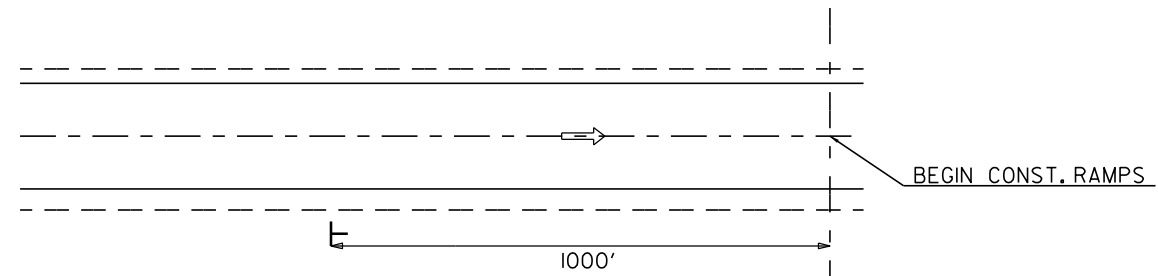
W21-5a
(36" X 36")

ADVANCE SIGNS

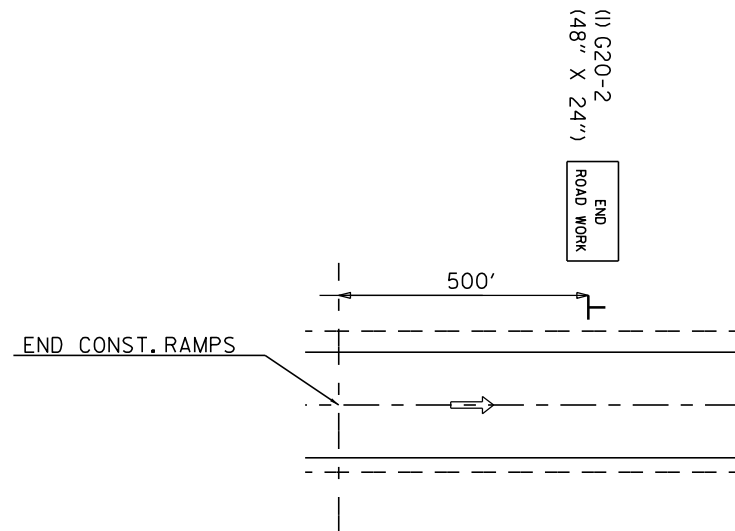
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

ADVANCE SIGNS AT BEGINNING AND END OF HWY. 283
ALL STAGES

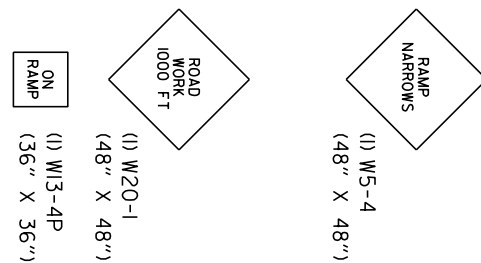
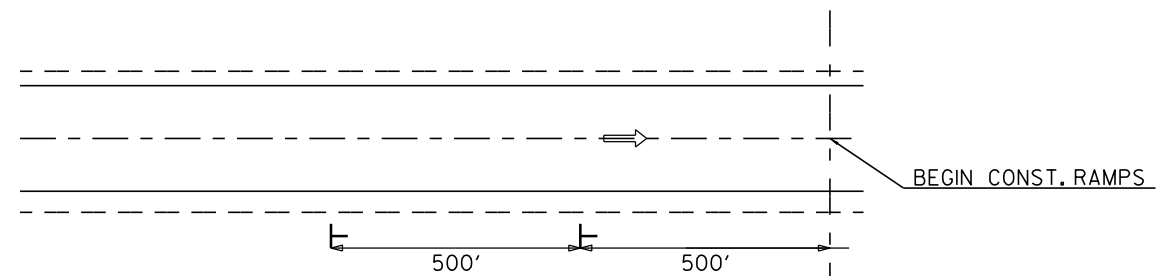
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	27	136
MAINTENANCE OF TRAFFIC DETAILS						



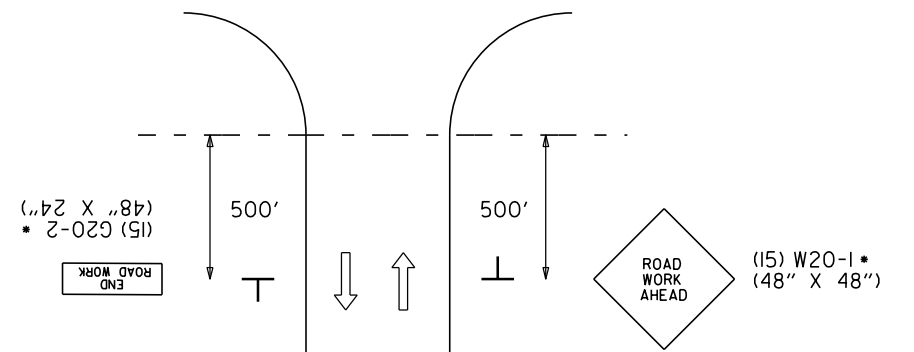
ADVANCE SIGNS AT BEGINNING OF INTERSTATE
RAMPS 1 & 3



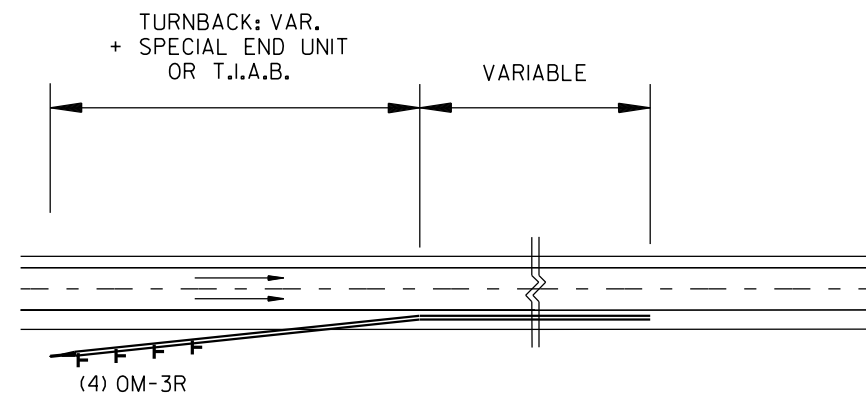
SIGNS AT END OF INTERSTATE RAMPS 2 & 4
ALL STAGES



ADVANCE SIGNS AT BEGINNING OF INTERSTATE RAMPS
RAMP 1
STAGE 3 - STEP 1, 2 & 3
RAMP 3
STAGE 1 - STEP 1 & 2
STAGE 2 - STEP 1 & 2



ADVANCE SIGNS AT MORRISON RD.
ALL STAGES

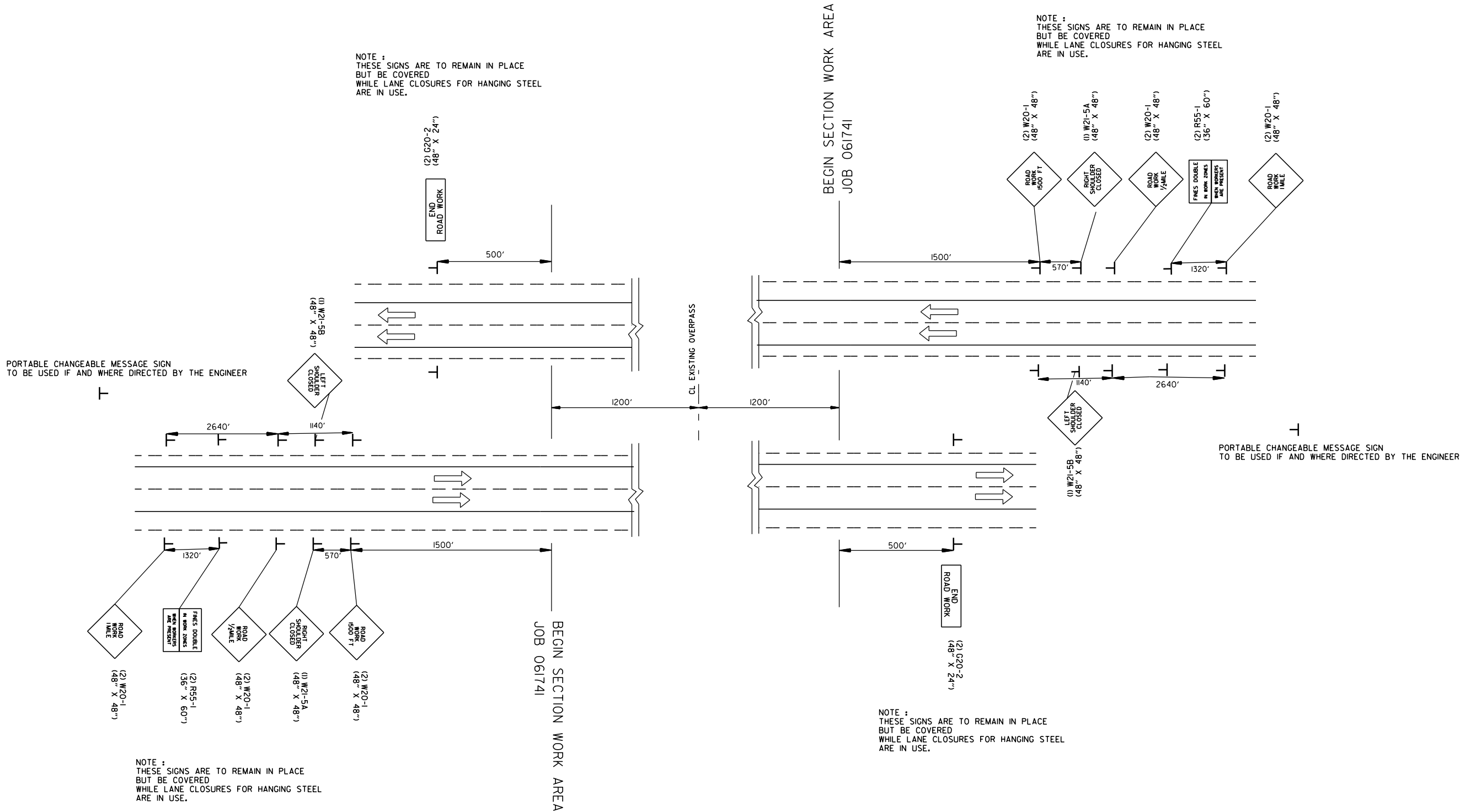


REFER ALSO TO STANDARD DRAWING TC-5
FOR DETAILS OF PLACEMENT OF PCCB TURNBACKS.

NOTE: OM-3R SIGNS SHALL BE
EQUALLY SPACED ALONG P.C.C.B.
TURNBACK.

DETAIL OF OBJECT MARKERS
AT PRECAST CONCRETE BARRIER TURNBACKS

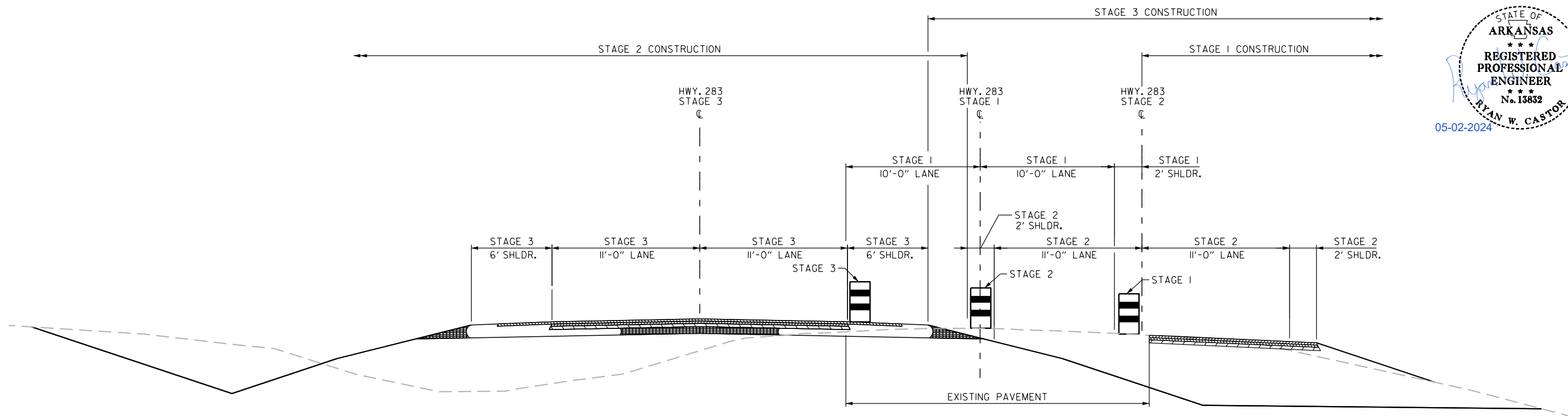
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	29	136
MAINTENANCE OF TRAFFIC DETAILS						



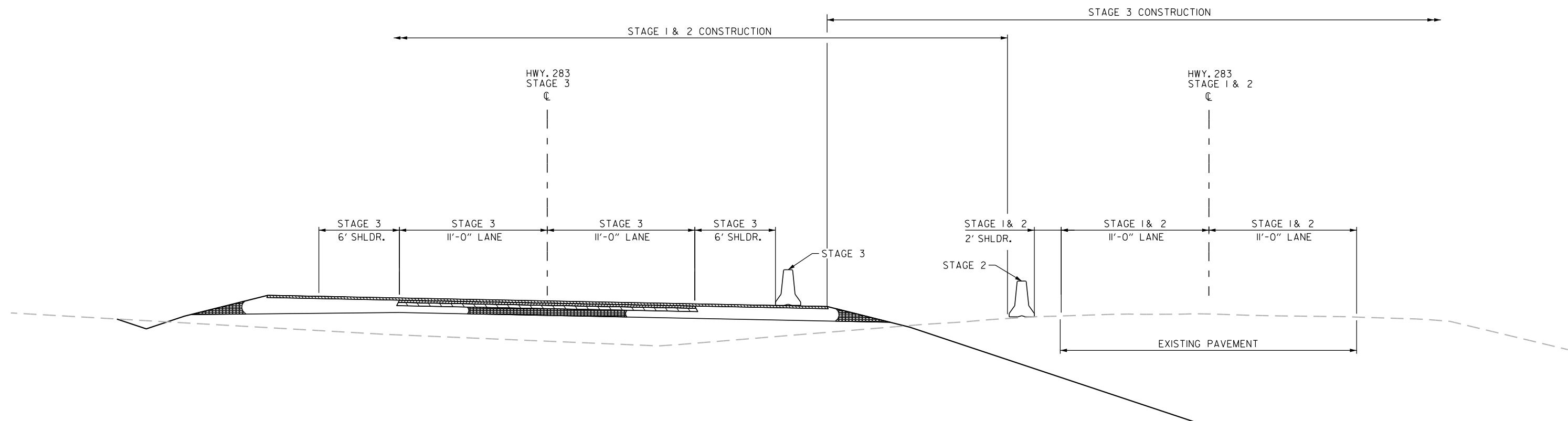
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	30	136
MAINTENANCE OF TRAFFIC DETAILS						

STATE OF
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RYAN W. CASTOR
05-02-2024



HWY. 283 - FULL DEPTH SECTION



HWY. 283 - FULL DEPTH SECTION
SUPERELEVATION

TYPICAL SECTIONS OF IMPROVEMENT
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	31	136
MAINTENANCE OF TRAFFIC DETAILS						

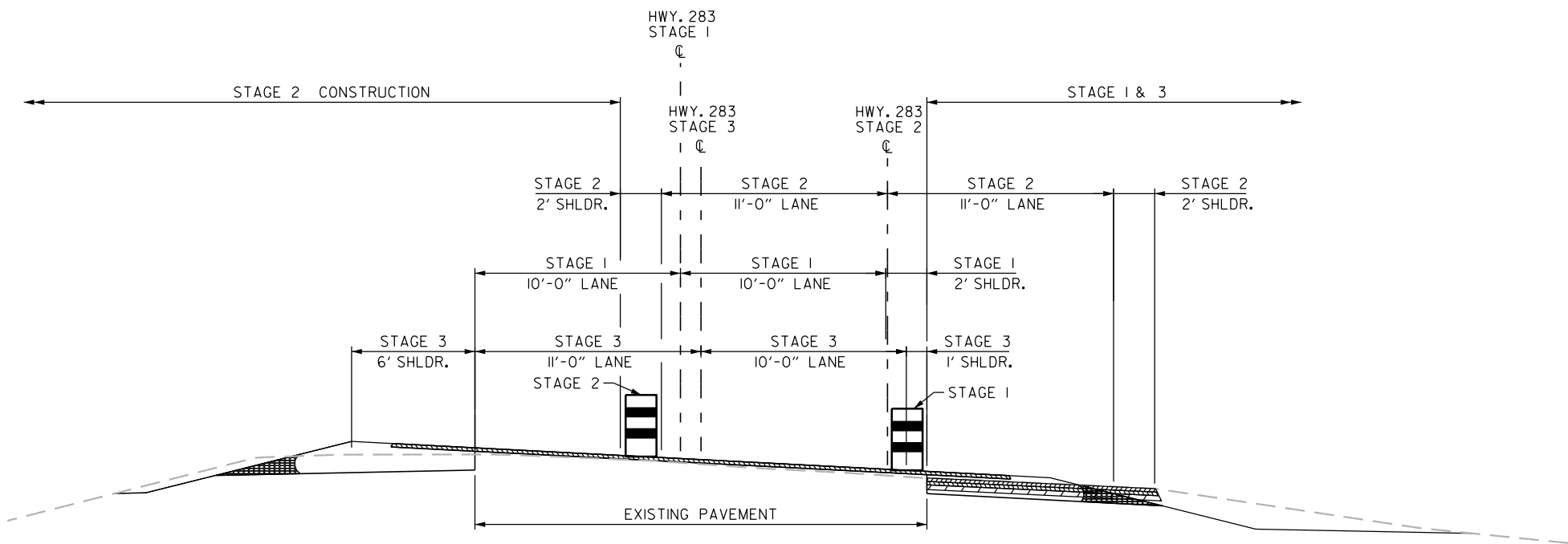
STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER

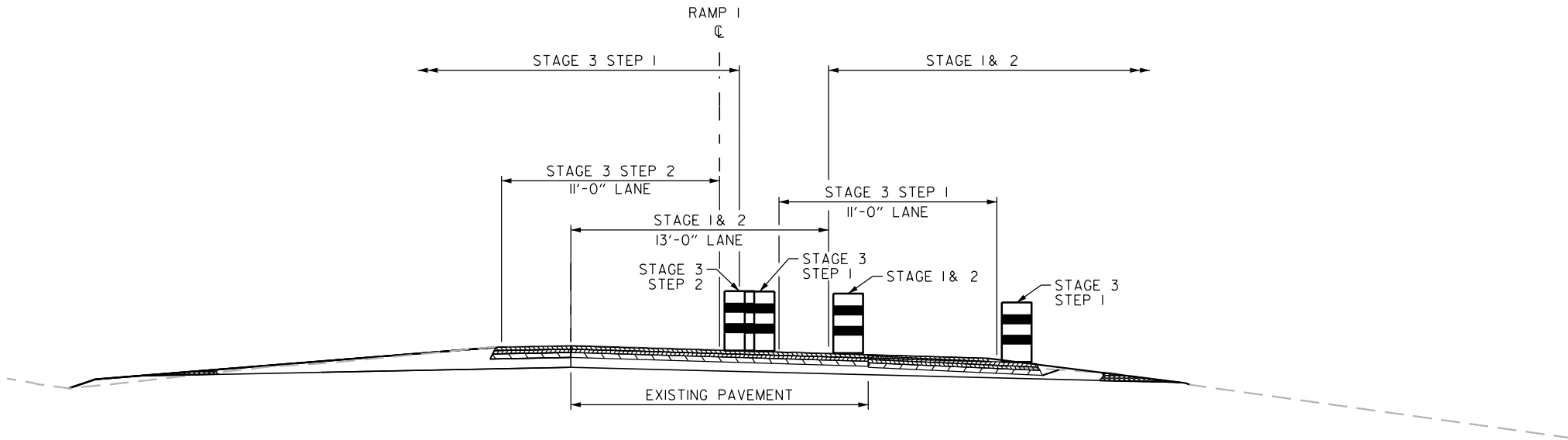
No. 13832

RYAN W. CASTOR

05-02-2024



HWY. 283 - NOTCH & OVERLAY SECTION
SUPERELEVATION



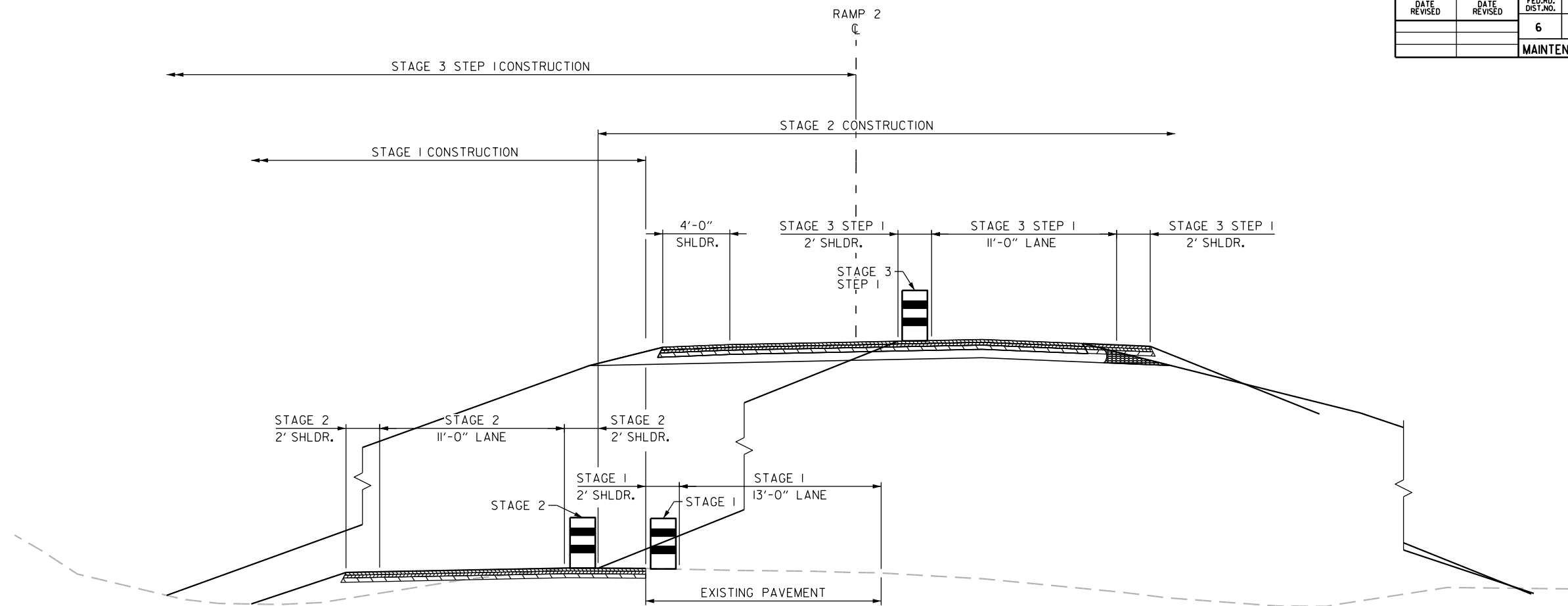
RAMP 1 - FULL DEPTH SECTION

TYPICAL SECTIONS OF IMPROVEMENT
MAINTENANCE OF TRAFFIC DETAILS

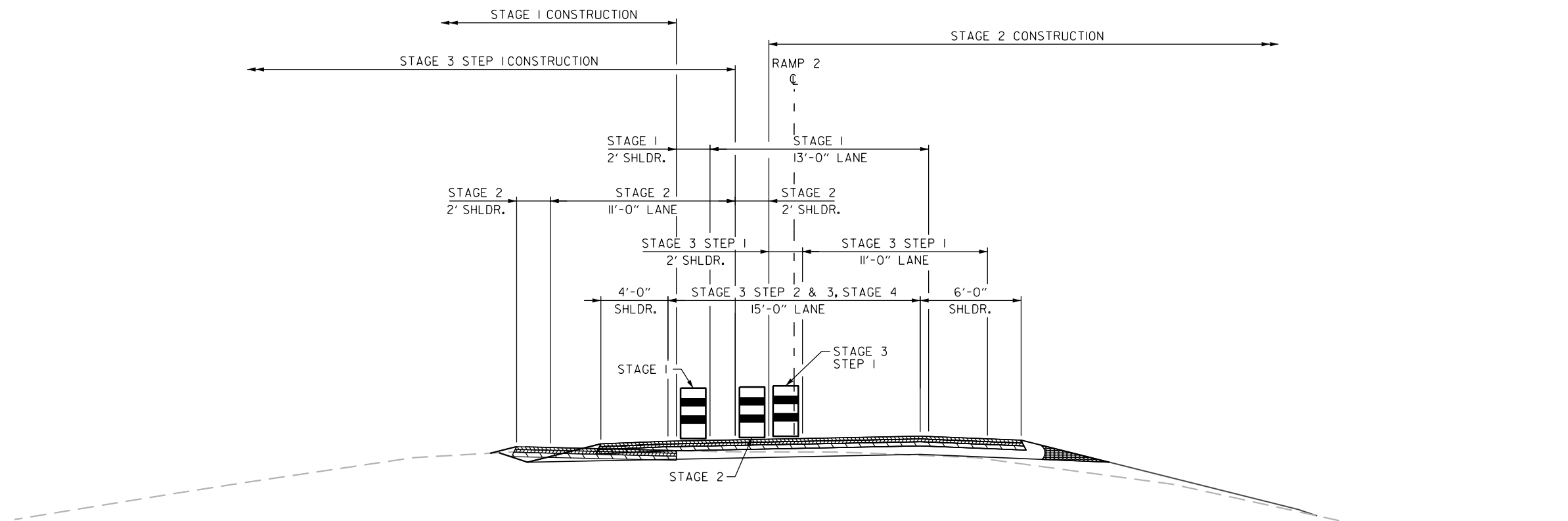
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	32	136
MAINTENANCE OF TRAFFIC DETAILS						

STATE OF
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05-02-2024



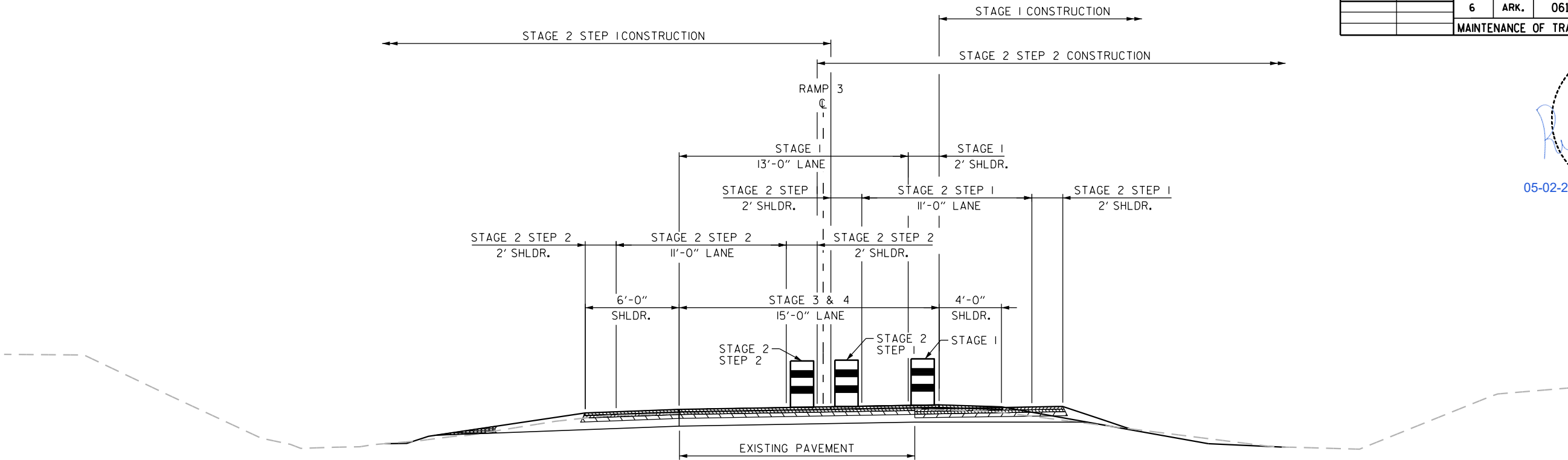
RAMP 2 - FULL DEPTH SECTION



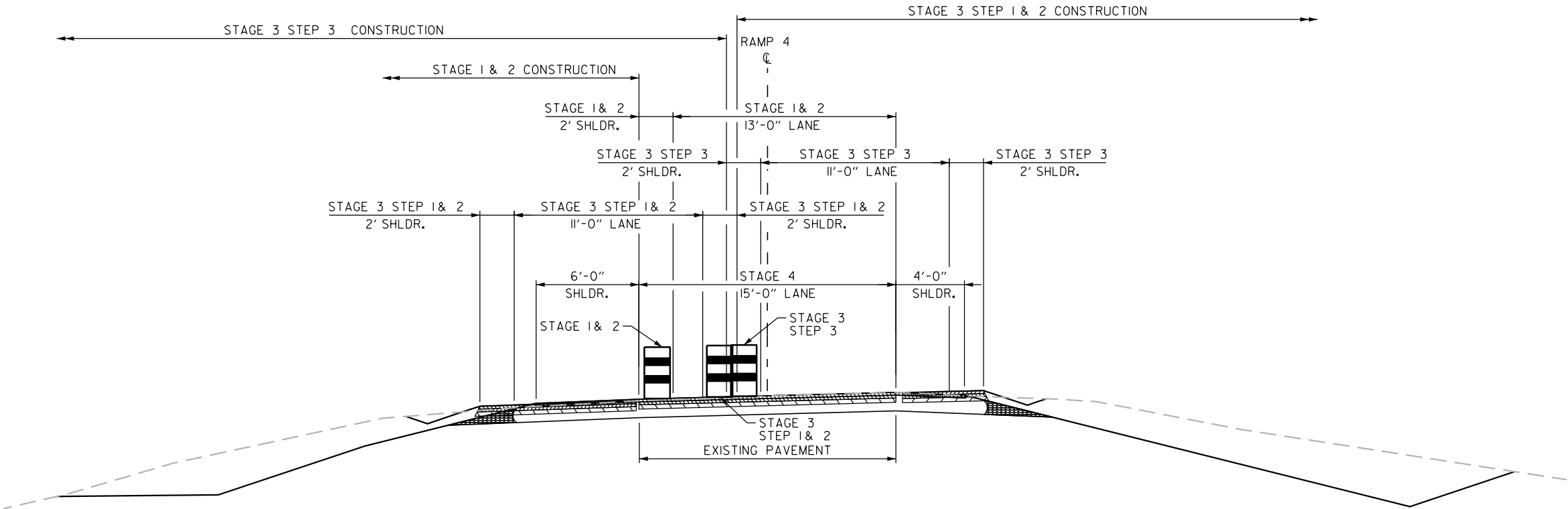
RAMP 2 - FULL DEPTH SECTION

TYPICAL SECTIONS OF IMPROVEMENT
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	33	136
MAINTENANCE OF TRAFFIC DETAILS						



RAMP 3 - FULL DEPTH SECTION



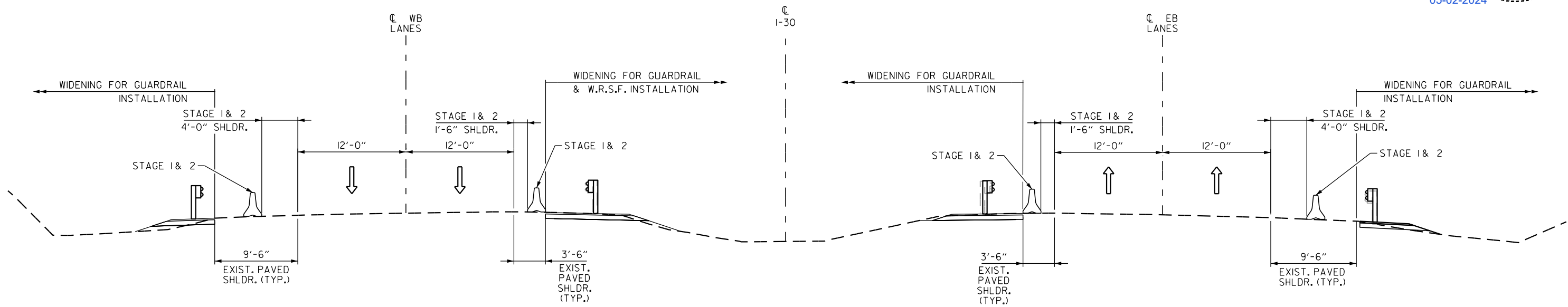
RAMP 4 - FULL DEPTH SECTION

TYPICAL SECTIONS OF IMPROVEMENT
MAINTENANCE OF TRAFFIC DETAILS

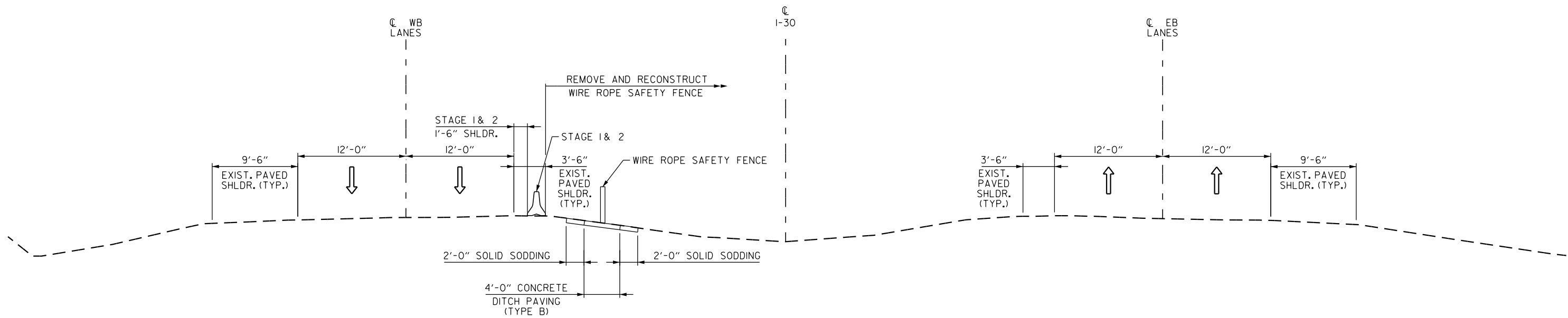
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	34	136
MAINTENANCE OF TRAFFIC DETAILS						

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I-30 SECTION FOR GUARDRAIL INSTALLATION



I-30 NORMAL SHOULDER SECTION

TYPICAL SECTIONS OF IMPROVEMENT
MAINTENANCE OF TRAFFIC DETAILS

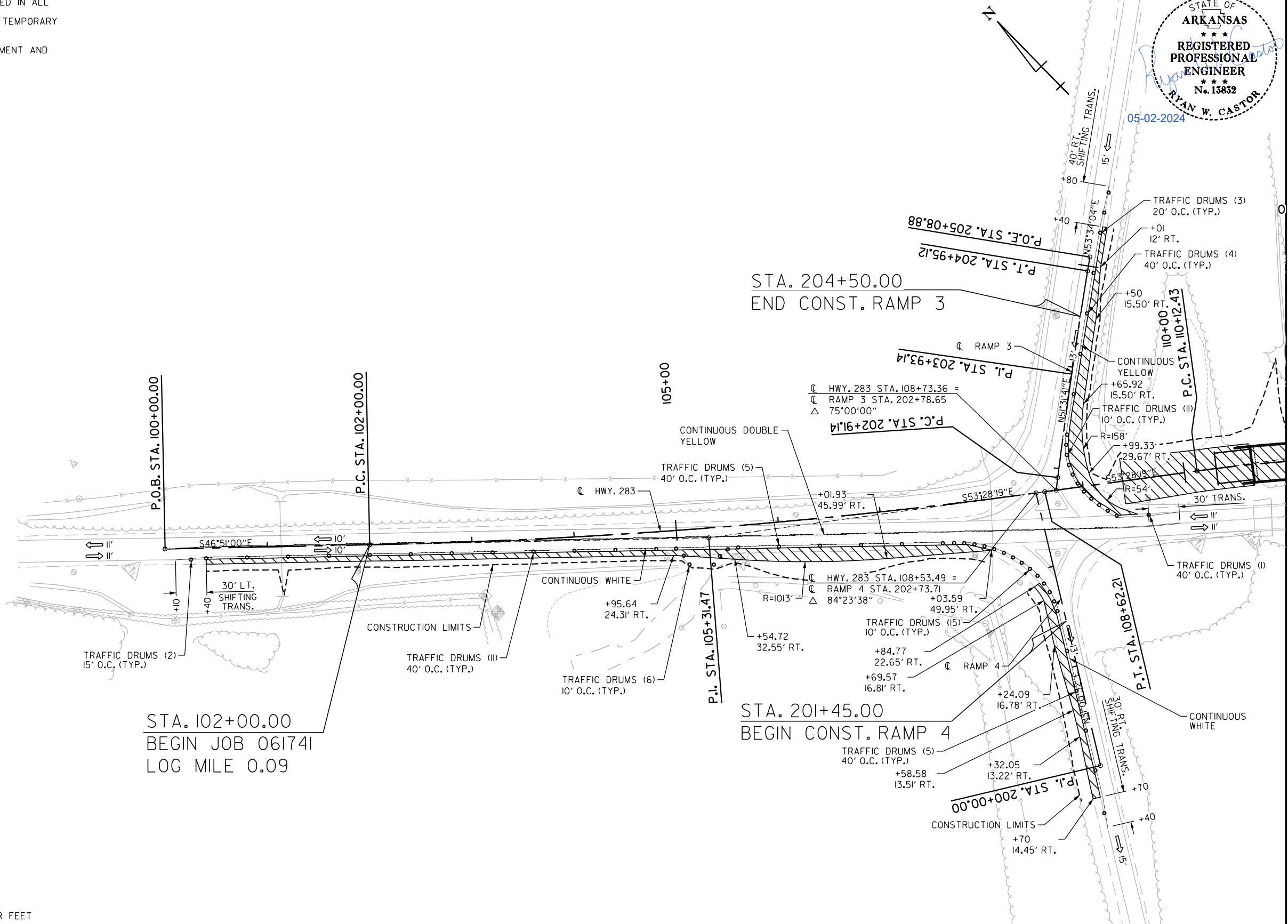
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	35	136
MAINTENANCE OF TRAFFIC DETAILS						

LEGEND

STAGE I STEP I WORK ZONE

SEQUENCE OF CONSTRUCTION

- STAGE I STEP I:
- PLACE ADVANCE WARNING SIGNAGE (TO BE MAINTAINED IN ALL STAGES).
 - SET TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES.
 - CONSTRUCT TEMPORARY WIDENING.
 - START CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.

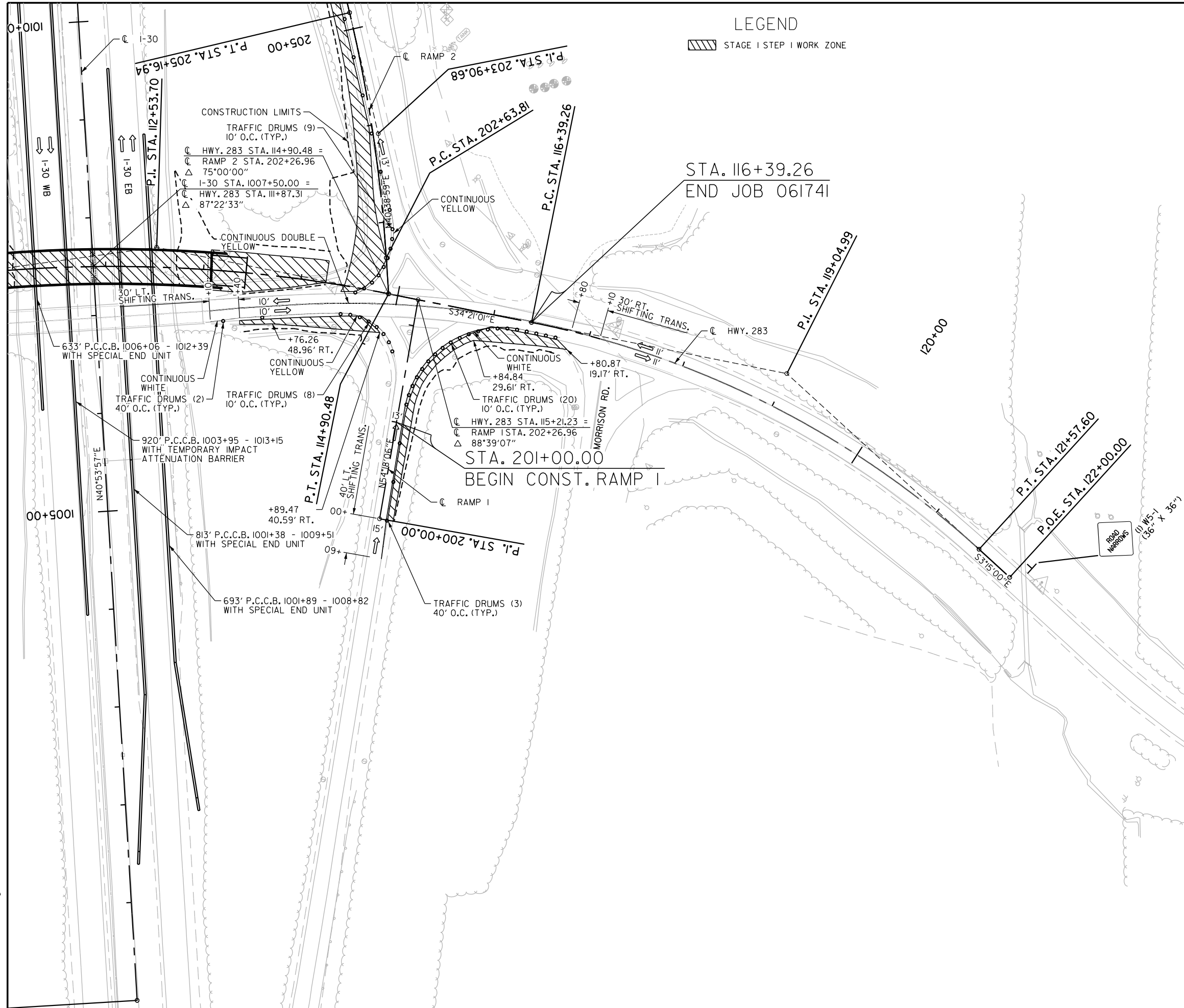


STAGE I STEP I- QUANTITIES

- CONSTRUCTION PAVEMENT MARKINGS (YELLOW) = 3,918 LINEAR FEET
- CONSTRUCTION PAVEMENT MARKINGS (WHITE) = 1,666 LINEAR FEET
- REMOVAL OF PERMANENT PAVEMENT MARKINGS = 5,276 LINEAR FEET
- TRAFFIC DRUMS = 120
- TEMPORARY PRECAST CONCRETE BARRIER = 3,059 LINEAR FEET
- TEMPORARY IMPACT ATTENUATION BARRIER = 1 EACH
- SPECIAL END UNIT = 3 EACH

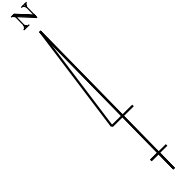
STAGE I- STEP I
MAINTENANCE OF TRAFFIC DETAILS

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LEGEND
STAGE I STEP I WORK ZONE

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	36	136
MAINTENANCE OF TRAFFIC DETAILS						



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- SEQUENCE OF CONSTRUCTION
- STAGE I STEP I:
- PLACE ADVANCE WARNING SIGNAGE (TO BE MAINTAINED IN ALL STAGES).
 - SET TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY CONTROL DEVICES.
 - CONSTRUCT TEMPORARY WIDENING.
 - START CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.

STAGE I- STEP I
MAINTENANCE OF TRAFFIC DETAILS

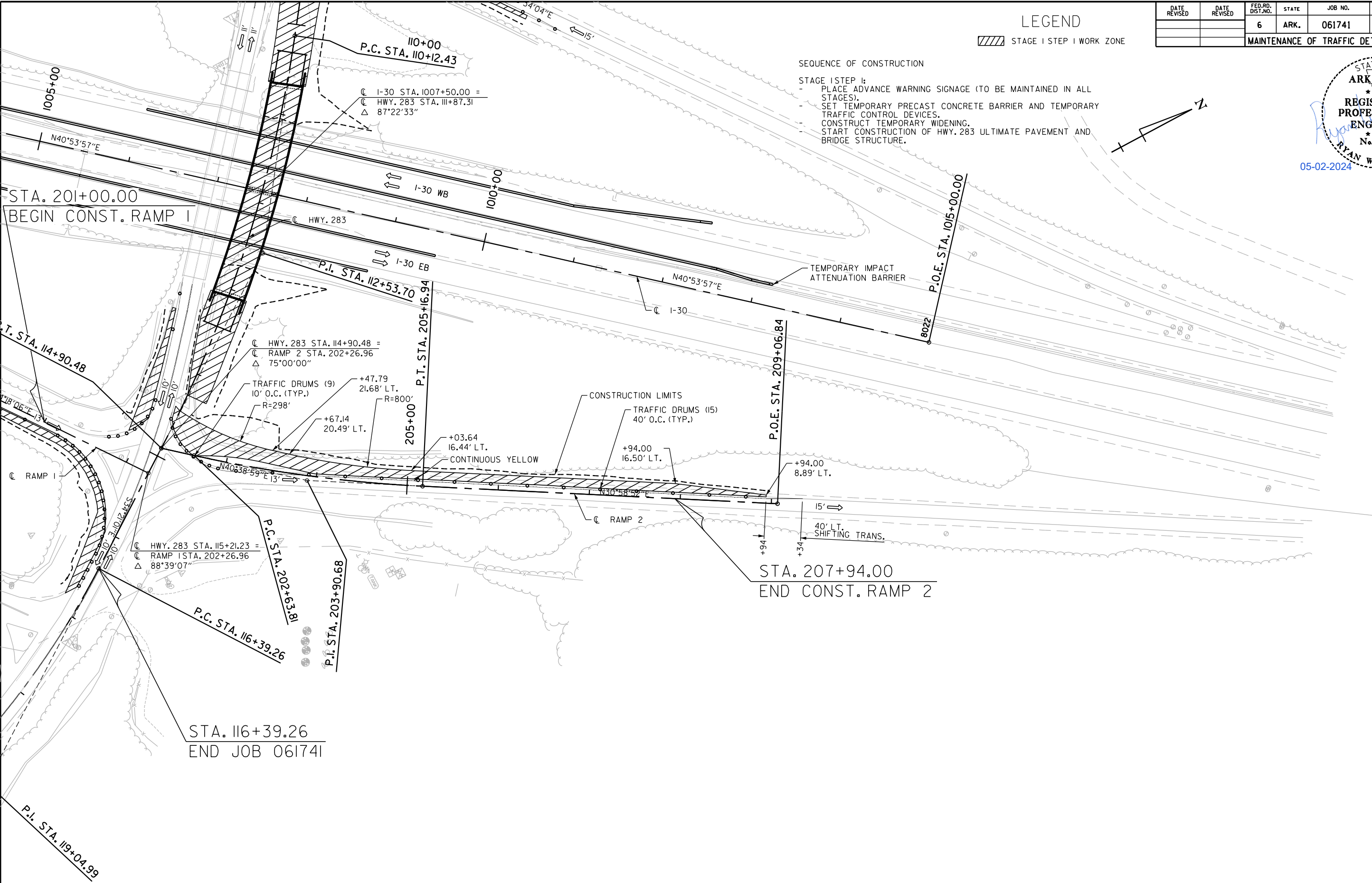
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	37	136
MAINTENANCE OF TRAFFIC DETAILS						

LEGEND

STAGE I STEP I WORK ZONE

SEQUENCE OF CONSTRUCTION

- STAGE I STEP I:
- PLACE ADVANCE WARNING SIGNAGE (TO BE MAINTAINED IN ALL STAGES).
 - SET TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES.
 - CONSTRUCT TEMPORARY WIDENING.
 - START CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.



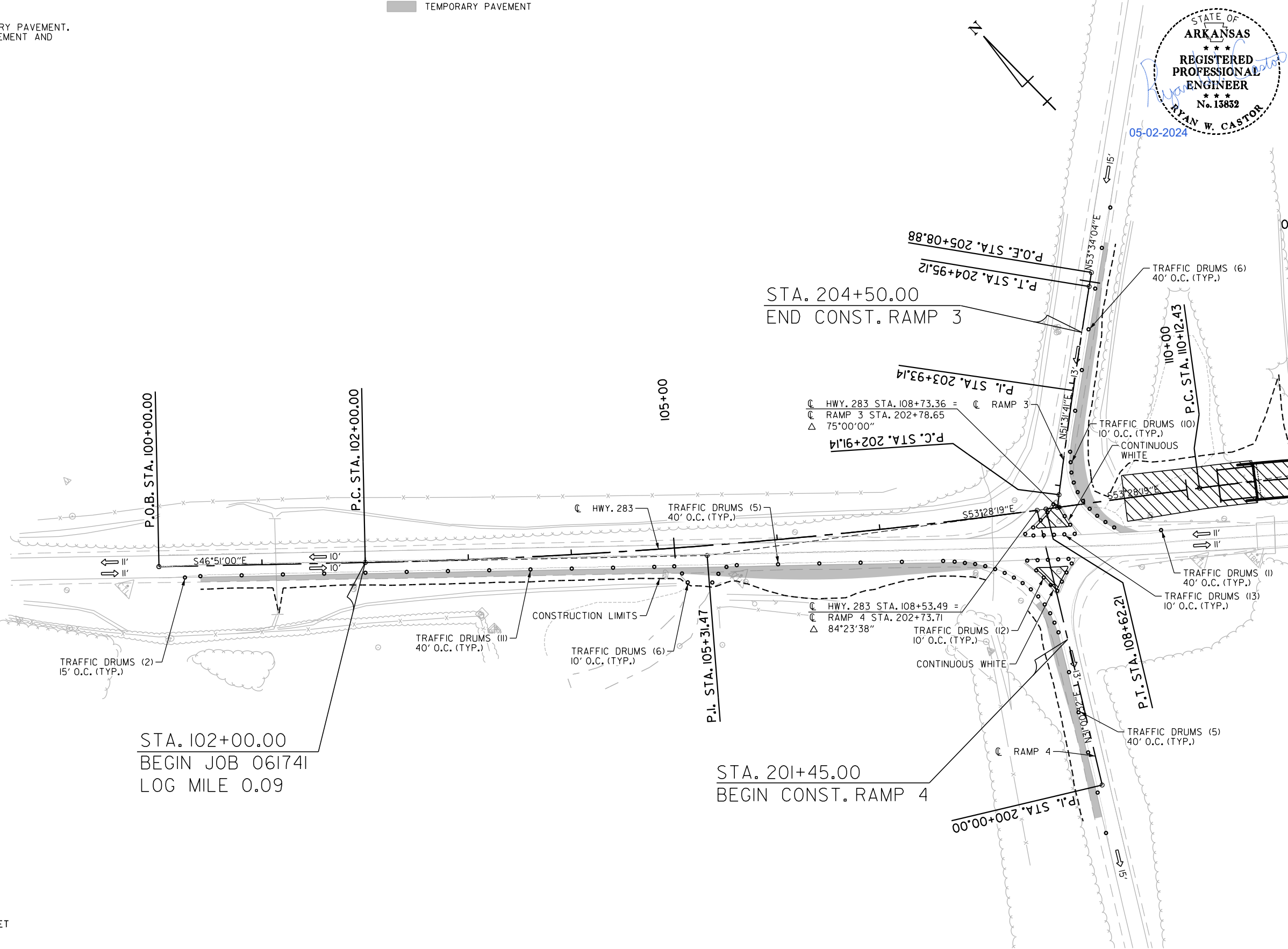
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	38	136
MAINTENANCE OF TRAFFIC DETAILS						

LEGEND

- STAGE 1 STEP 2 WORK ZONE
TEMPORARY PAVEMENT

SEQUENCE OF CONSTRUCTION

- STAGE 1 STEP 2:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
- REMOVE EXISTING ISLANDS AND CONSTRUCT TEMPORARY PAVEMENT.
- CONTINUE CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.



STAGE 1 STEP 2 - QUANTITIES

- CONSTRUCTION PAVEMENT
MARKINGS (WHITE) = 416 LINEAR FEET
TRAFFIC DRUMS = 172
TEMPORARY PRECAST CONCRETE BARRIER = 3059 LINEAR FEET
TEMPORARY IMPACT ATTENUATION BARRIER = 1 EACH
SPECIAL END UNIT = 3 EACH

STAGE I- STEP 2
MAINTENANCE OF TRAFFIC DETAILS

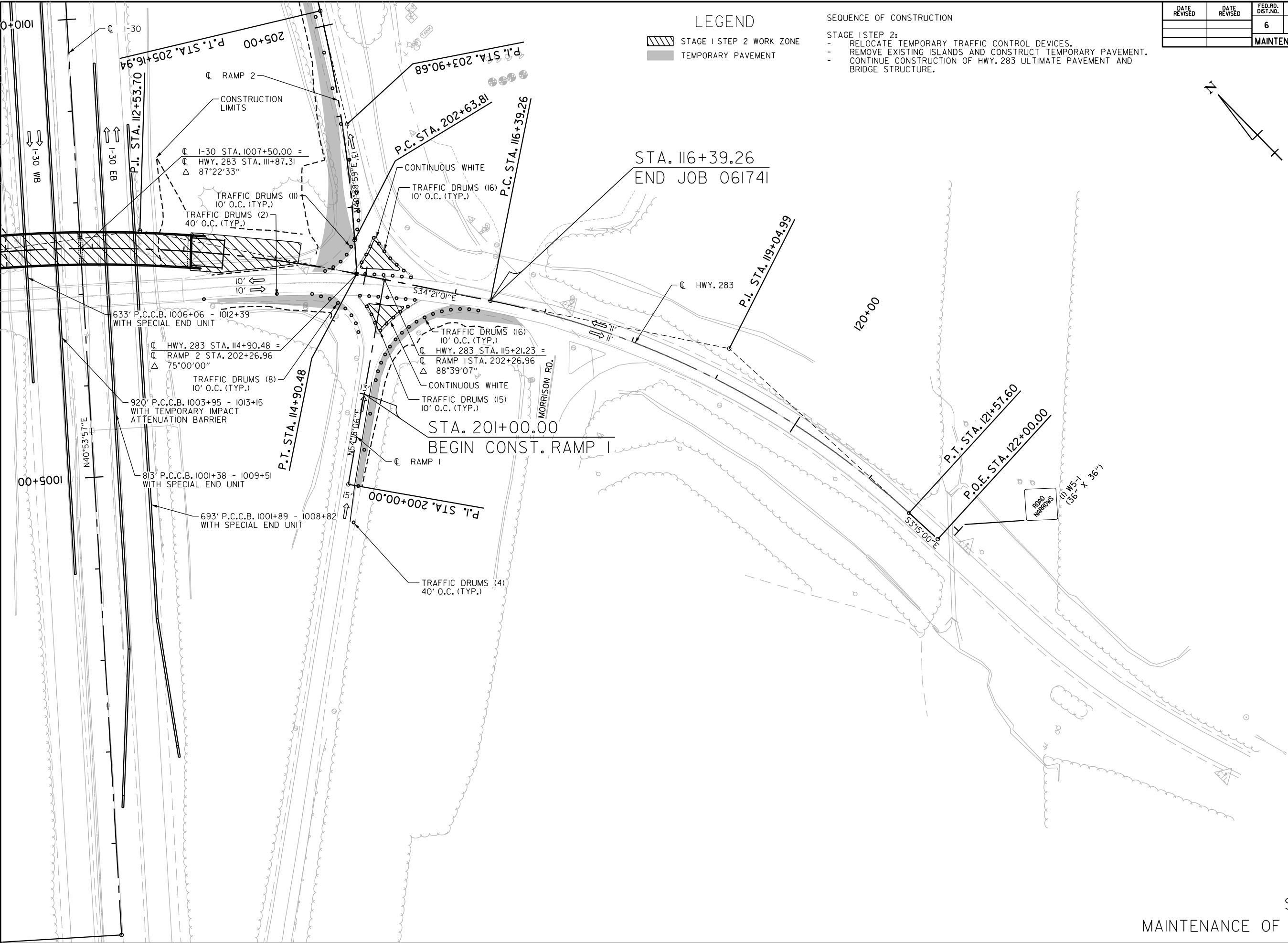
LEGEND

- STAGE 1 STEP 2 WORK ZONE
- TEMPORARY PAVEMENT

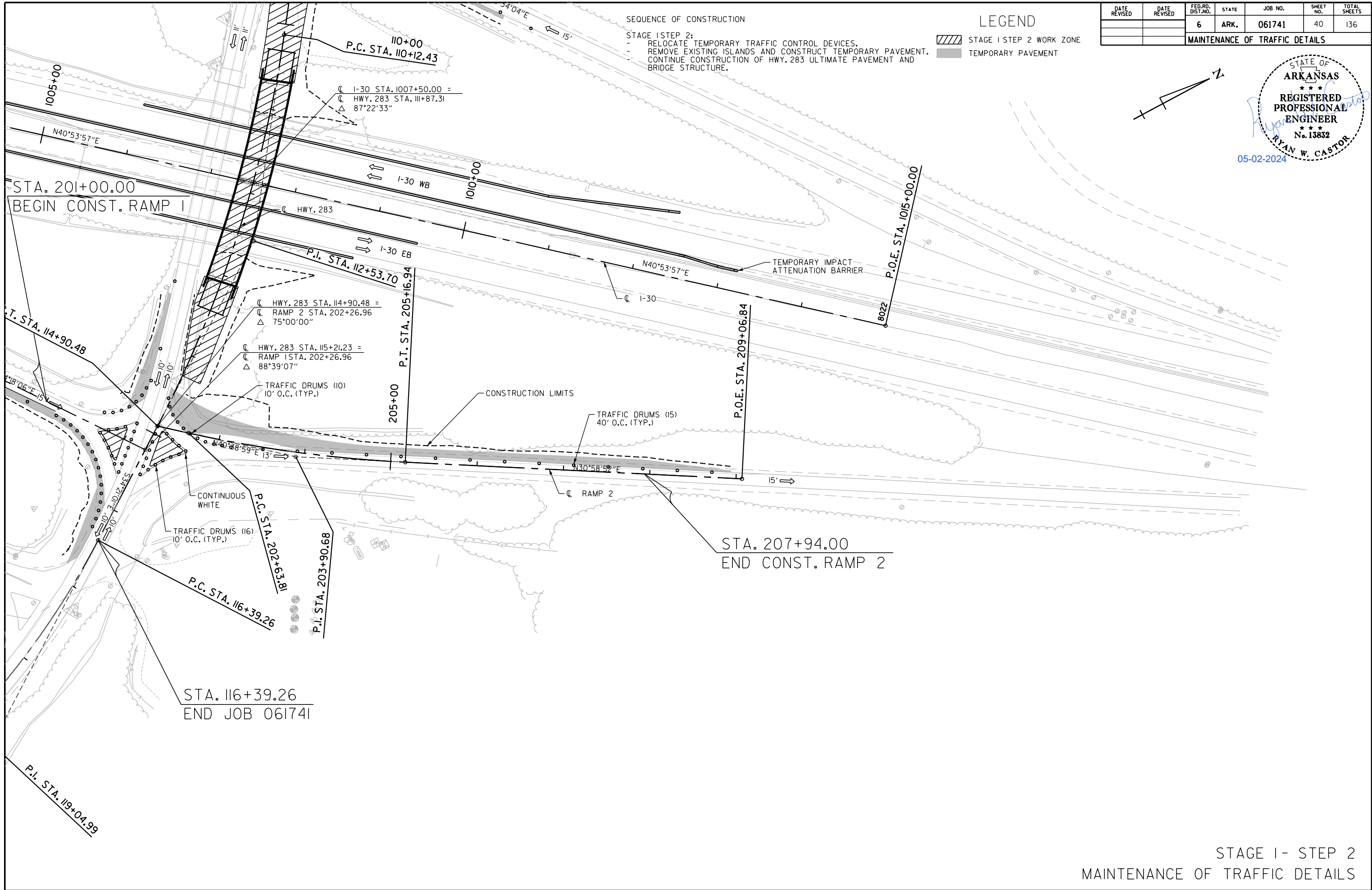
SEQUENCE OF CONSTRUCTION

- STAGE 1 STEP 2:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - REMOVE EXISTING ISLANDS AND CONSTRUCT TEMPORARY PAVEMENT.
 - CONTINUE CONSTRUCTION OF HWY. 283 ULTIMATE PAVEMENT AND BRIDGE STRUCTURE.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	39	136
MAINTENANCE OF TRAFFIC DETAILS						



STAGE I- STEP 2
MAINTENANCE OF TRAFFIC DETAILS



STAGE I- STEP 2
MAINTENANCE OF TRAFFIC DETAILS

SEQUENCE OF CONSTRUCTION

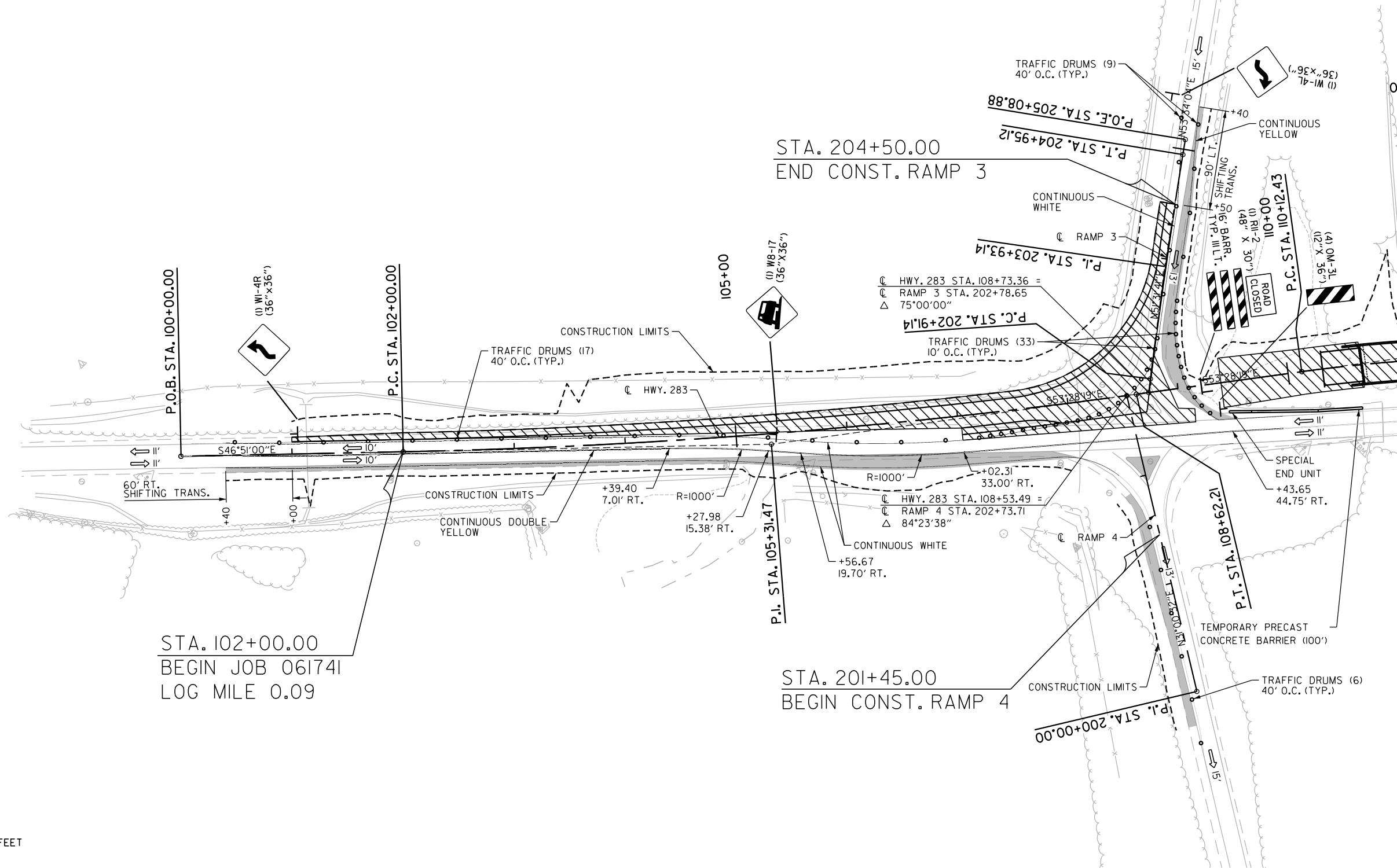
STAGE 2 STEP 1:

- REMOVE EXISTING GUARDRAIL ON NORTH SIDE OF HWY. 283.
- INSTALL TEMPORARY PRECAST CONCRETE BARRIER, AND RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
- SHIFT HWY. 283, RAMP 2 & RAMP 3 TRAFFIC ONTO TEMPORARY PAVEMENT.
- CONSTRUCT NOTCH AND WIDEN ON THE EAST SIDE OF RAMP 2 AND ON THE NORTH SIDE OF HWY. 283 FROM RAMP 3 TO THE WEST.
- CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON THE EAST HALF OF RAMP 2 AND ON THE WEST HALF OF RAMP 3.

LEGEND

- STAGE 2 STEP 1 WORK ZONE
- TEMPORARY PAVEMENT

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	41	136
MAINTENANCE OF TRAFFIC DETAILS						



STAGE 2 STEP 1- QUANTITIES

CONSTRUCTION PAVEMENT MARKINGS (YELLOW) = 5,527 LINEAR FEET

CONSTRUCTION PAVEMENT MARKINGS (WHITE) = 3,409 LINEAR FEET

REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS = 4,389

REMOVAL OF PERMANENT PAVEMENT MARKINGS = 1,972

TRAFFIC DRUMS = 123

TEMPORARY PRECAST CONCRETE BARRIER = 3,259 LINEAR FEET

TEMPORARY IMPACT ATTENUATION BARRIER = 2 EACH

SPECIAL END UNIT = 4 EACH

STAGE 2 - STEP 1
MAINTENANCE OF TRAFFIC DETAILS

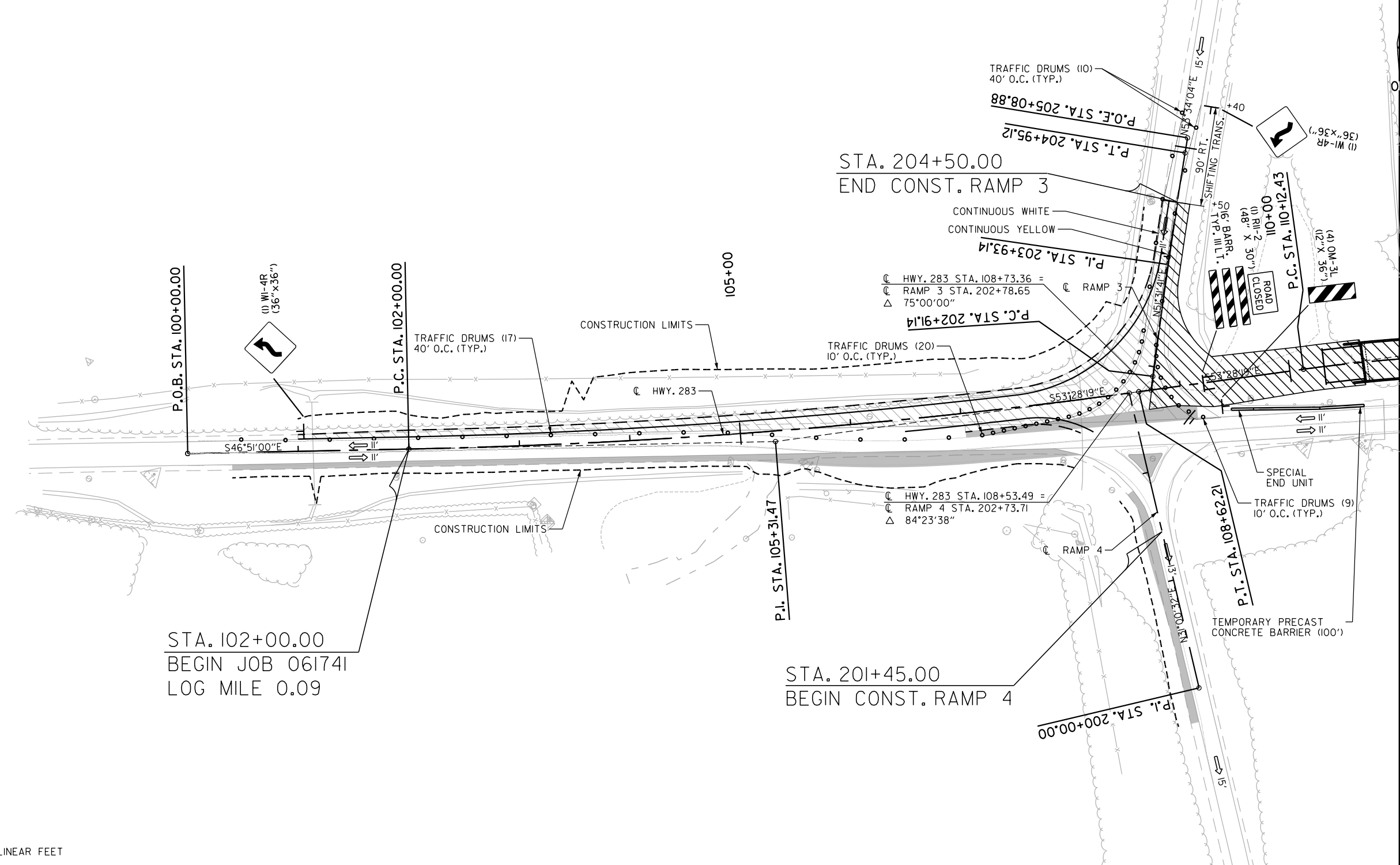
SEQUENCE OF CONSTRUCTION

- STAGE 2 STEP 2:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT RAMP 3 TRAFFIC WEST TO NEWLY CONSTRUCTED PAVEMENT.
 - CONSTRUCT NOTCH AND WIDE ON THE EAST SIDE OF RAMP 3.
 - CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON THE EAST HALF ON RAMP 3.
 - FINISH CONSTRUCTION OF THE EAST SIDE OF RAMP 2 AND THE HWY. 283 BRIDGE STRUCTURE AND APPROACH PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON I-30.
 - INSTALL GUARDRAIL AND WRSF ALONG I-30.

LEGEND

- STAGE 2 STEP 2 WORK ZONE
- PRIOR WORK ZONE PVMT
- TEMPORARY PAVEMENT

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	44	136
MAINTENANCE OF TRAFFIC DETAILS						



STAGE 2 STEP 2 - QUANTITIES

- CONSTRUCTION PAVEMENT MARKINGS (YELLOW) = 303 LINEAR FEET
- CONSTRUCTION PAVEMENT MARKINGS (WHITE) = 424 LINEAR FEET
- REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS = 751 LINEAR FEET
- TRAFFIC DRUMS = 115
- TEMPORARY PRECAST CONCRETE BARRIER = 3,259 LINEAR FEET
- TEMPORARY IMPACT ATTENUATION BARRIER = 2 EACH
- SPECIAL END UNIT = 4 EACH

STAGE 2 - STEP 2

MAINTENANCE OF TRAFFIC DETAILS

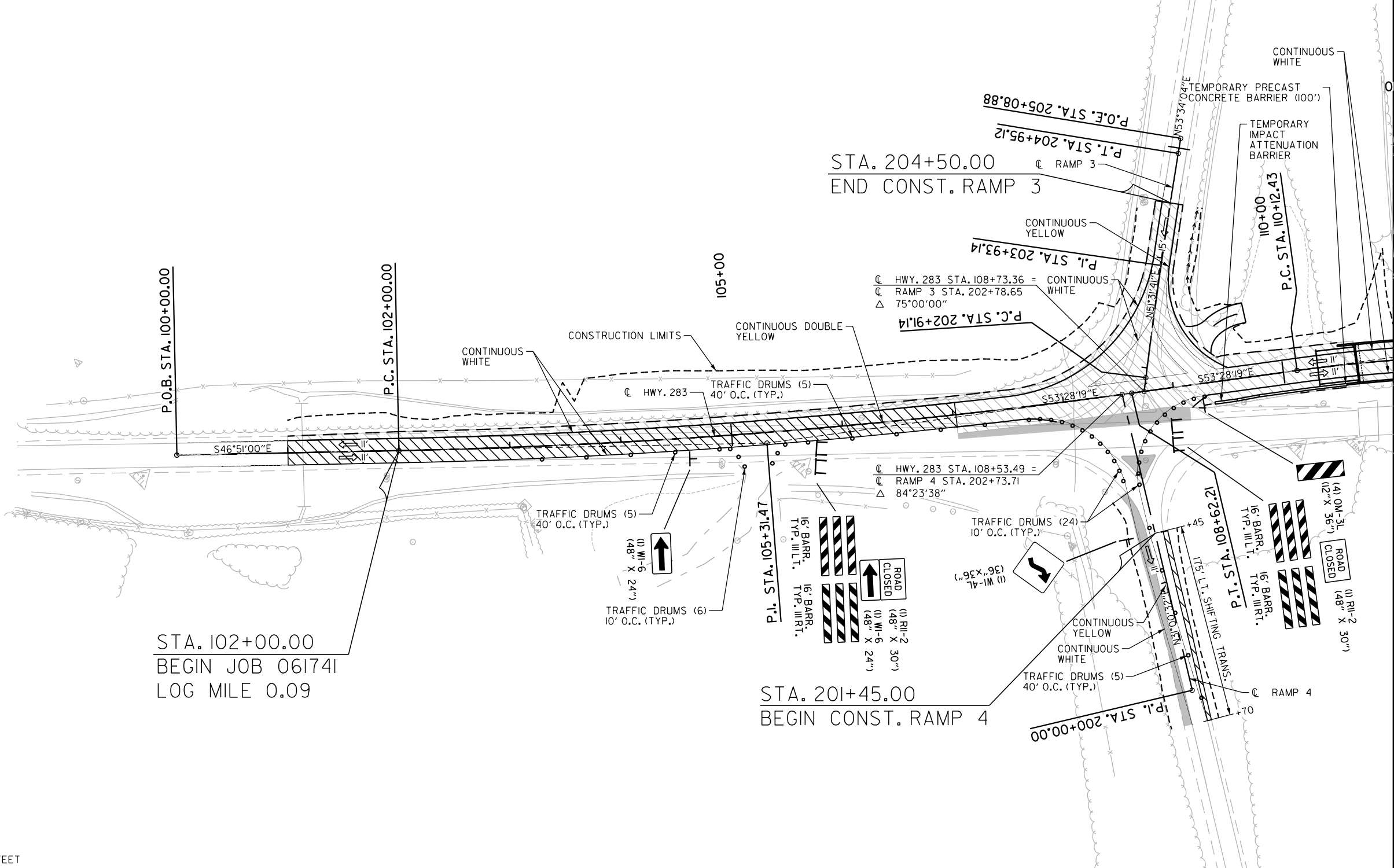
SEQUENCE OF CONSTRUCTION

- STAGE 3 STEP 1:
- RELOCATE TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES.
 - REMOVE TEMPORARY PRECAST CONCRETE BARRIER.
 - CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON HWY. 283.
 - SHIFT RAMP 3 AND HWY. 283 TRAFFIC TO NEW PAVEMENT AND BRIDGE STRUCTURE.
 - CONSTRUCT NOTCH AND WIDEN ON THE WEST SIDE OF RAMP 1 AND RAMP 2.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE WEST SIDE OF RAMP 1 AND RAMP 2.
 - CONSTRUCT TEMPORARY WIDENING ON RAMP 4.

LEGEND

- STAGE 3 STEP 1 WORK ZONE
- PRIOR WORK ZONE PVMT
- TEMPORARY PAVEMENT

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	47	136
MAINTENANCE OF TRAFFIC DETAILS						



STAGE 3 STEP 1 - QUANTITIES

CONSTRUCTION PAVEMENT MARKINGS (YELLOW) = 4,966 LINEAR FEET

CONSTRUCTION PAVEMENT MARKINGS (WHITE) = 4,636 LINEAR FEET

REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS = 7,188 LINEAR FEET

REMOVAL OF PERMANENT PAVEMENT MARKINGS = 1,748 LINEAR FEET

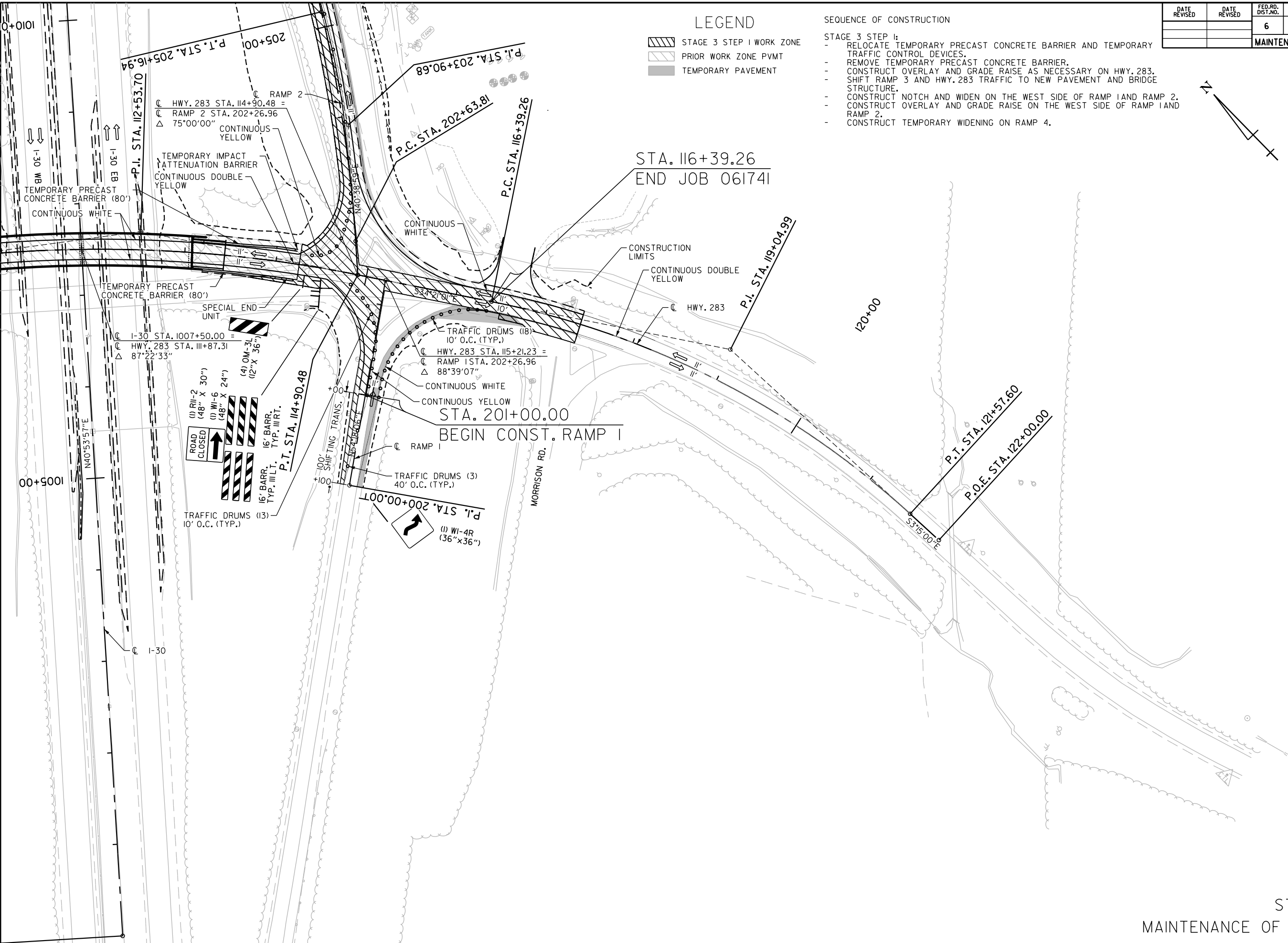
TRAFFIC DRUMS = 104

TEMPORARY PRECAST CONCRETE BARRIER = 180 LINEAR FEET

TEMPORARY IMPACT ATTENUATION BARRIER = 1 EACH

SPECIAL END UNIT = 1 EACH

STAGE 3 - STEP 1
MAINTENANCE OF TRAFFIC DETAILS



LEGEND

- STAGE 3 STEP 1 WORK ZONE
- PRIOR WORK ZONE PVMT
- TEMPORARY PAVEMENT

- SEQUENCE OF CONSTRUCTION
- STAGE 3 STEP 1:
- RELOCATE TEMPORARY PRECAST CONCRETE BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES.
 - REMOVE TEMPORARY PRECAST CONCRETE BARRIER.
 - CONSTRUCT OVERLAY AND GRADE RAISE AS NECESSARY ON HWY. 283.
 - SHIFT RAMP 3 AND HWY. 283 TRAFFIC TO NEW PAVEMENT AND BRIDGE STRUCTURE.
 - CONSTRUCT NOTCH AND WIDEN ON THE WEST SIDE OF RAMP 1 AND RAMP 2.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE WEST SIDE OF RAMP 1 AND RAMP 2.
 - CONSTRUCT TEMPORARY WIDENING ON RAMP 4.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	48	136
MAINTENANCE OF TRAFFIC DETAILS						

STATE OF ARKANSAS

REGISTERED PROFESSIONAL ENGINEER

No. 13832

RYAN W. CASTOR

05-02-2024

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	50	136
		MAINTENANCE OF TRAFFIC DETAILS				

SEQUENCE OF CONSTRUCTION

- STAGE 3 STEP 2
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT RAMP 2 TO NEW PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON THE EAST SIDE OF RAMP 1 AND RAMP 4.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE EAST SIDE OF RAMP 4.

LEGEND

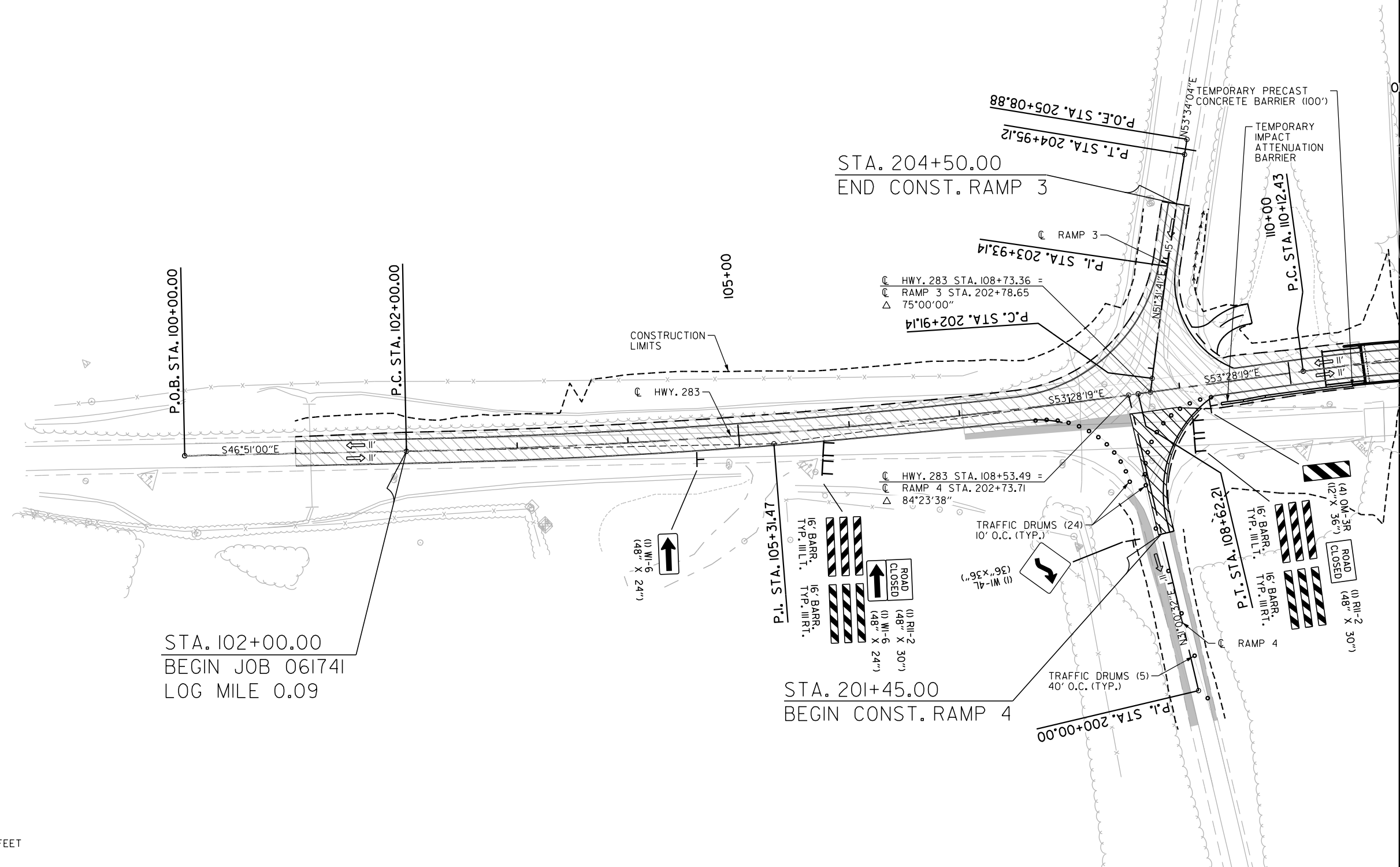
-  STAGE 3 STEP 2 WORK ZONE
 PRIOR WORK ZONE PVMT
 TEMPORARY PAVEMENT

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No. 13832
RYAN W. CASTOR
12-2024

05-02-2024



STAGE 3 STEP 2 - QUANTITIES

CONSTRUCTION PAVEMENT
MARKINGS (YELLOW) = 941 LINEAR FEET

CONSTRUCTION PAVEMENT
MARKINGS (WHITE) = 1,163 LINEAR FEET

REMOVAL OF CONSTRUCTION PAVEMENT
MARKINGS = 2,013 LINEAR FEET

TRAFFIC DRUMS = 66

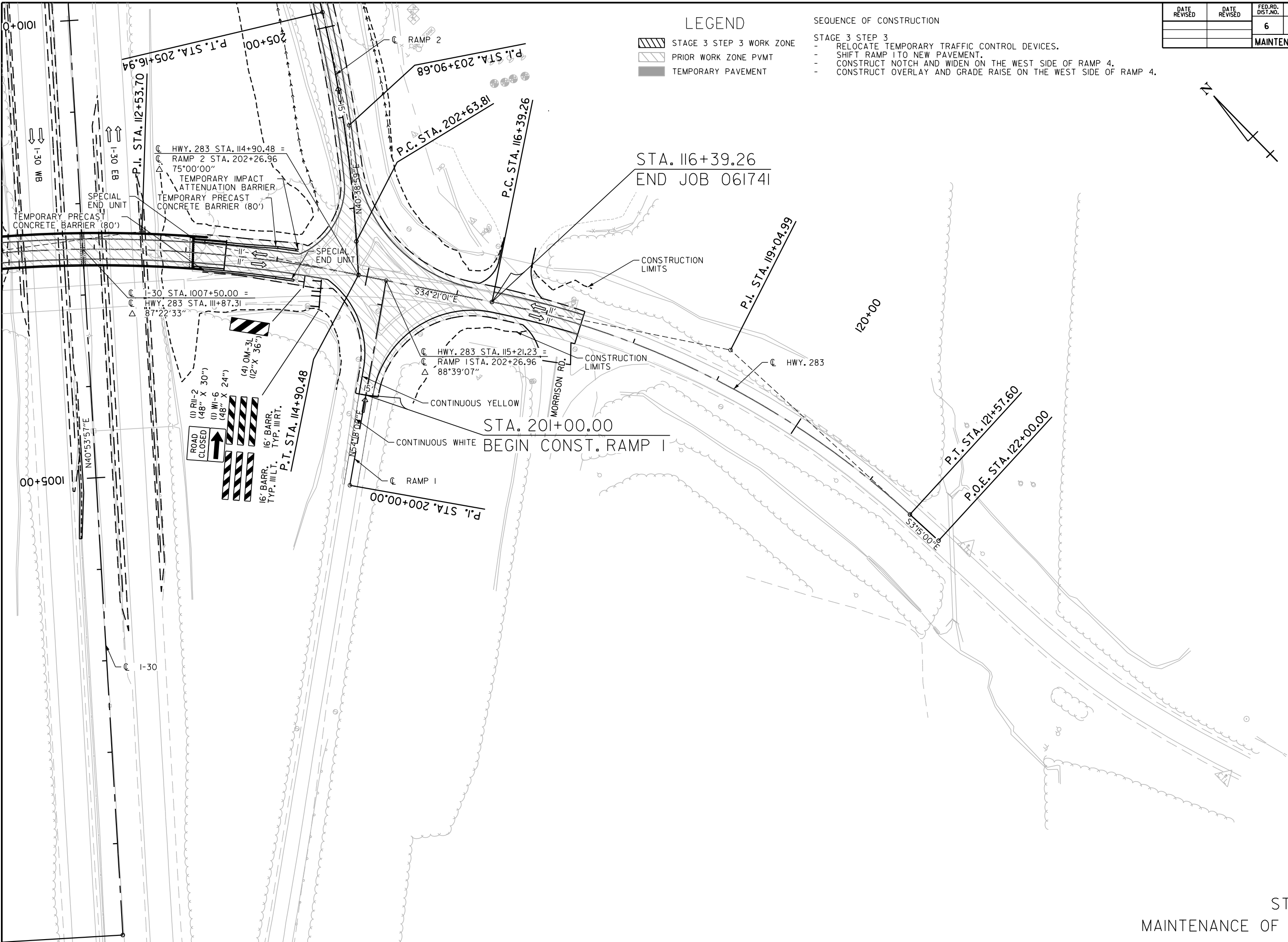
TEMPORARY PRECAST CONCRETE BARRIER = 180 LINEAR FEET

TEMPORARY IMPACT ATTENUATION BARRIER = 1 EACH

SPECIAL END UNIT = 1 EACH

STAGE 3 - STEP 2
MAINTENANCE OF TRAFFIC DETAILS

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LEGEND

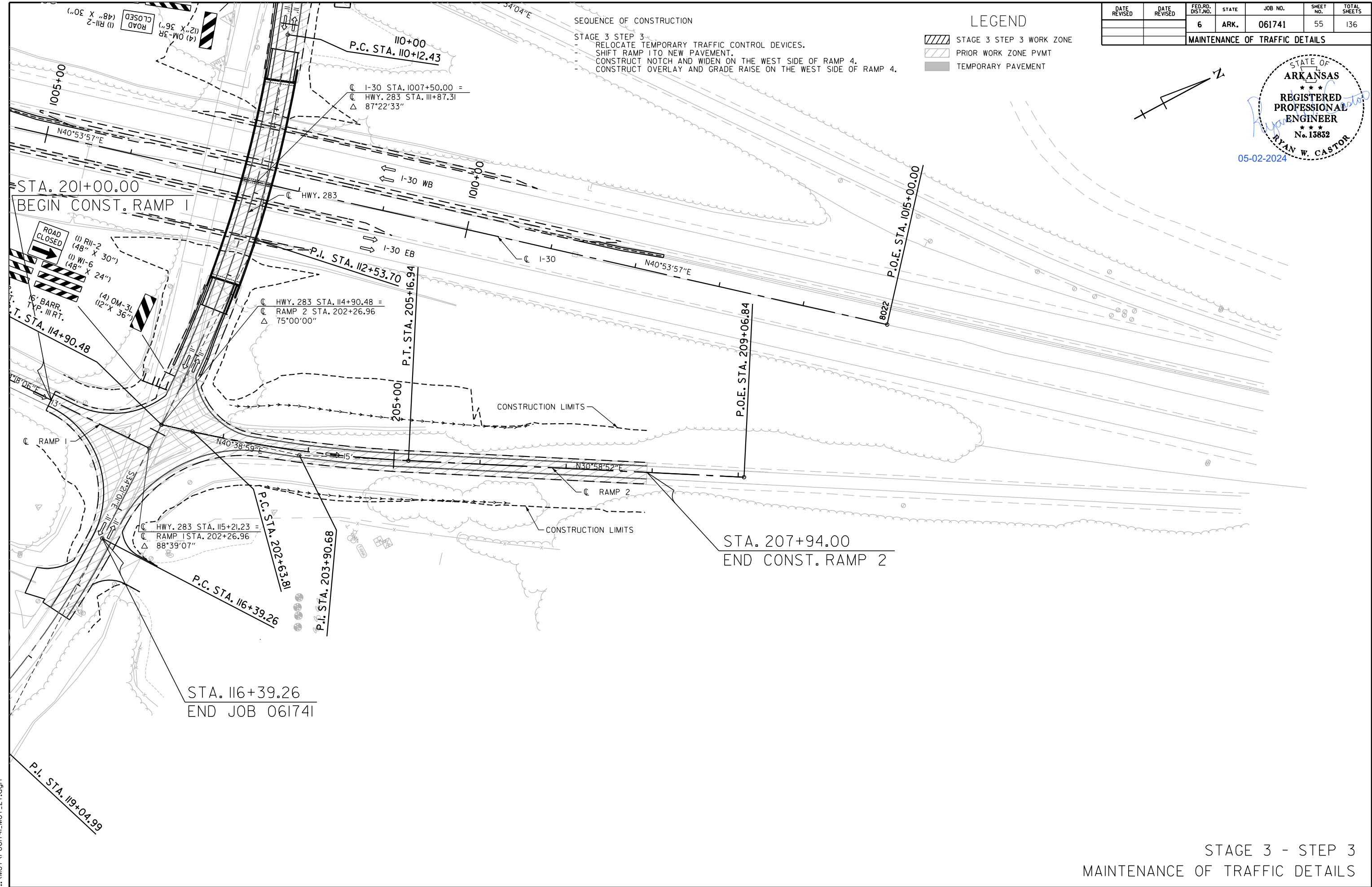
- STAGE 3 STEP 3 WORK ZONE
- PRIOR WORK ZONE PVMT
- TEMPORARY PAVEMENT

SEQUENCE OF CONSTRUCTION

- STAGE 3 STEP 3
 - RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - SHIFT RAMP 1 TO NEW PAVEMENT.
 - CONSTRUCT NOTCH AND WIDEN ON THE WEST SIDE OF RAMP 4.
 - CONSTRUCT OVERLAY AND GRADE RAISE ON THE WEST SIDE OF RAMP 4.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	54	136
MAINTENANCE OF TRAFFIC DETAILS						

STATE OF
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05-02-2024



DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	55	136
MAINTENANCE OF TRAFFIC DETAILS						

LEGEND

- STAGE 3 STEP 3 WORK ZONE
- PRIOR WORK ZONE PVMT
- TEMPORARY PAVEMENT

SEQUENCE OF CONSTRUCTION

- STAGE 3 STEP 3
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
- SHIFT RAMP 1 TO NEW PAVEMENT.
- CONSTRUCT NOTCH AND WIDEN ON THE WEST SIDE OF RAMP 4.
- CONSTRUCT OVERLAY AND GRADE RAISE ON THE WEST SIDE OF RAMP 4.

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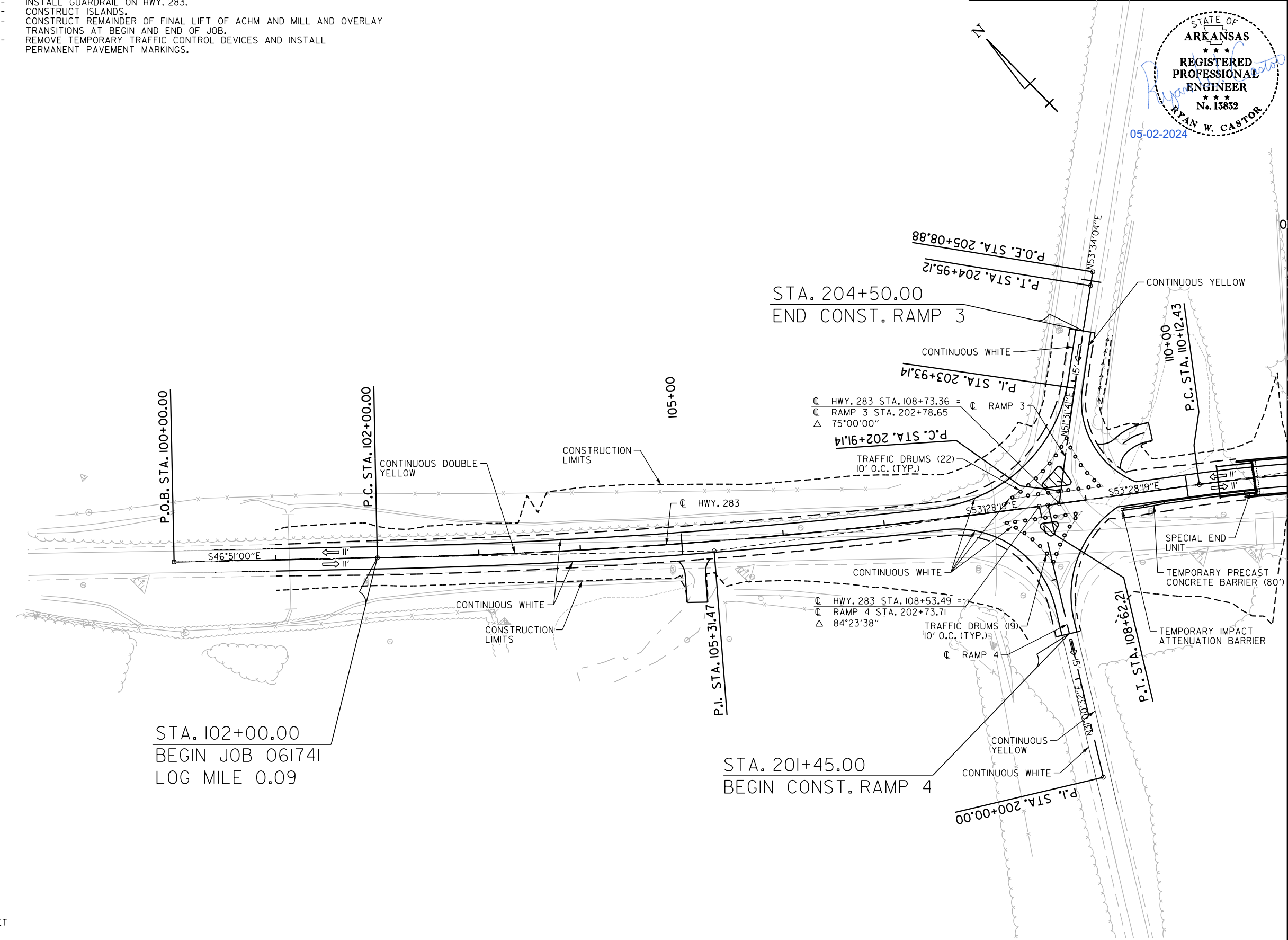
SEQUENCE OF CONSTRUCTION

- STAGE 4:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - INSTALL GUARDRAIL ON HWY. 283.
 - CONSTRUCT ISLANDS.
 - CONSTRUCT REMAINDER OF FINAL LIFT OF ACHM AND MILL AND OVERLAY TRANSITIONS AT BEGIN AND END OF JOB.
 - REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND INSTALL PERMANENT PAVEMENT MARKINGS.

LEGEND

STAGE 4 WORK ZONE

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	56	136
MAINTENANCE OF TRAFFIC DETAILS						



STAGE 4 - QUANTITIES

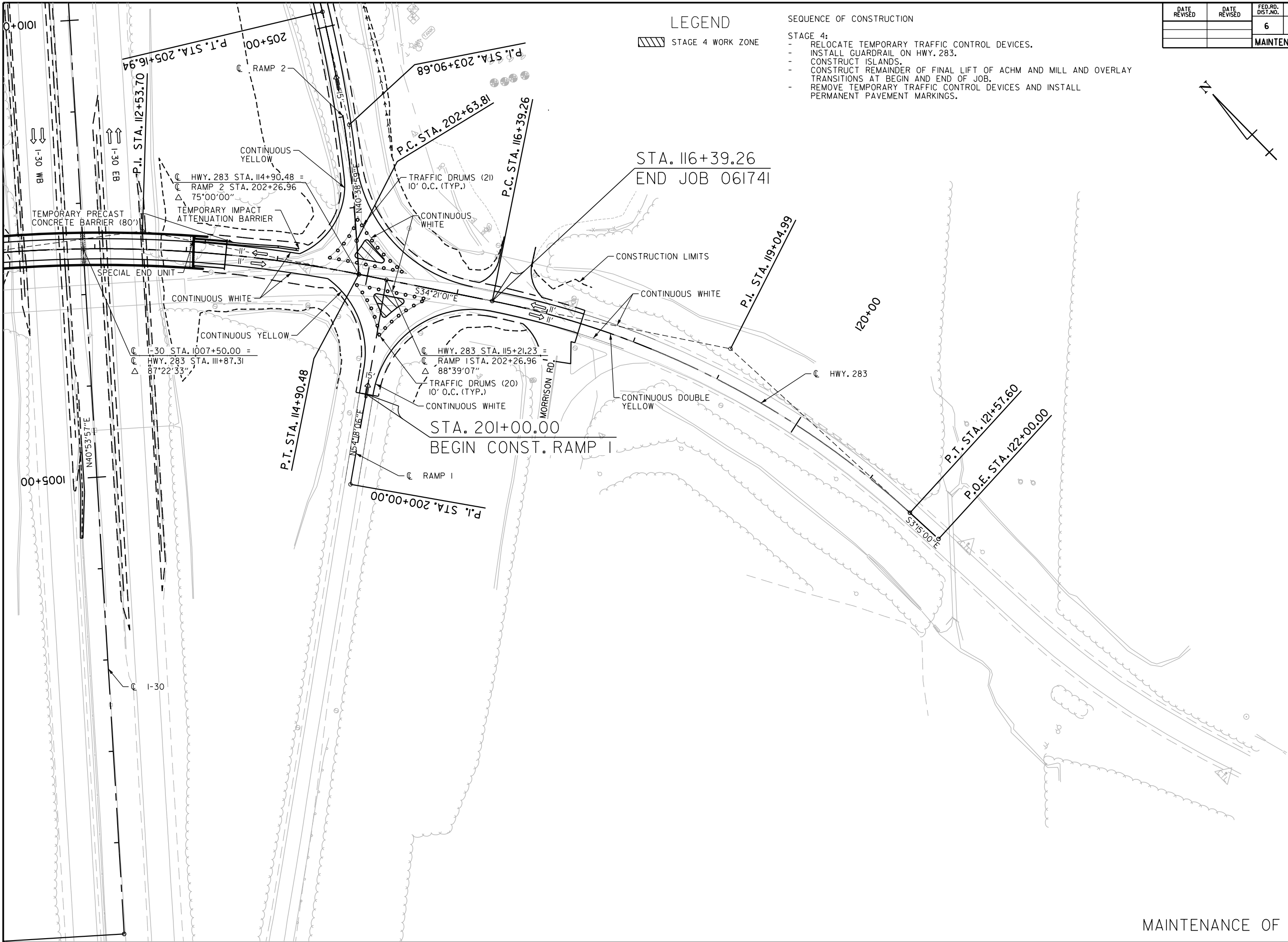
TRAFFIC DRUMS = 82

TEMPORARY PRECAST CONCRETE BARRIER = 206 LINEAR FEET

TEMPORARY IMPACT ATTENUATION BARRIER = 2 EACH

SPECIAL END UNIT = 2 EACH

STAGE 4
MAINTENANCE OF TRAFFIC DETAILS



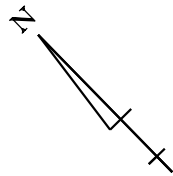
LEGEND

STAGE 4 WORK ZONE

SEQUENCE OF CONSTRUCTION

- STAGE 4:
- RELOCATE TEMPORARY TRAFFIC CONTROL DEVICES.
 - INSTALL GUARDRAIL ON HWY. 283.
 - CONSTRUCT ISLANDS.
 - CONSTRUCT REMAINDER OF FINAL LIFT OF ACHM AND MILL AND OVERLAY TRANSITIONS AT BEGIN AND END OF JOB.
 - REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND INSTALL PERMANENT PAVEMENT MARKINGS.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	57	136
MAINTENANCE OF TRAFFIC DETAILS						

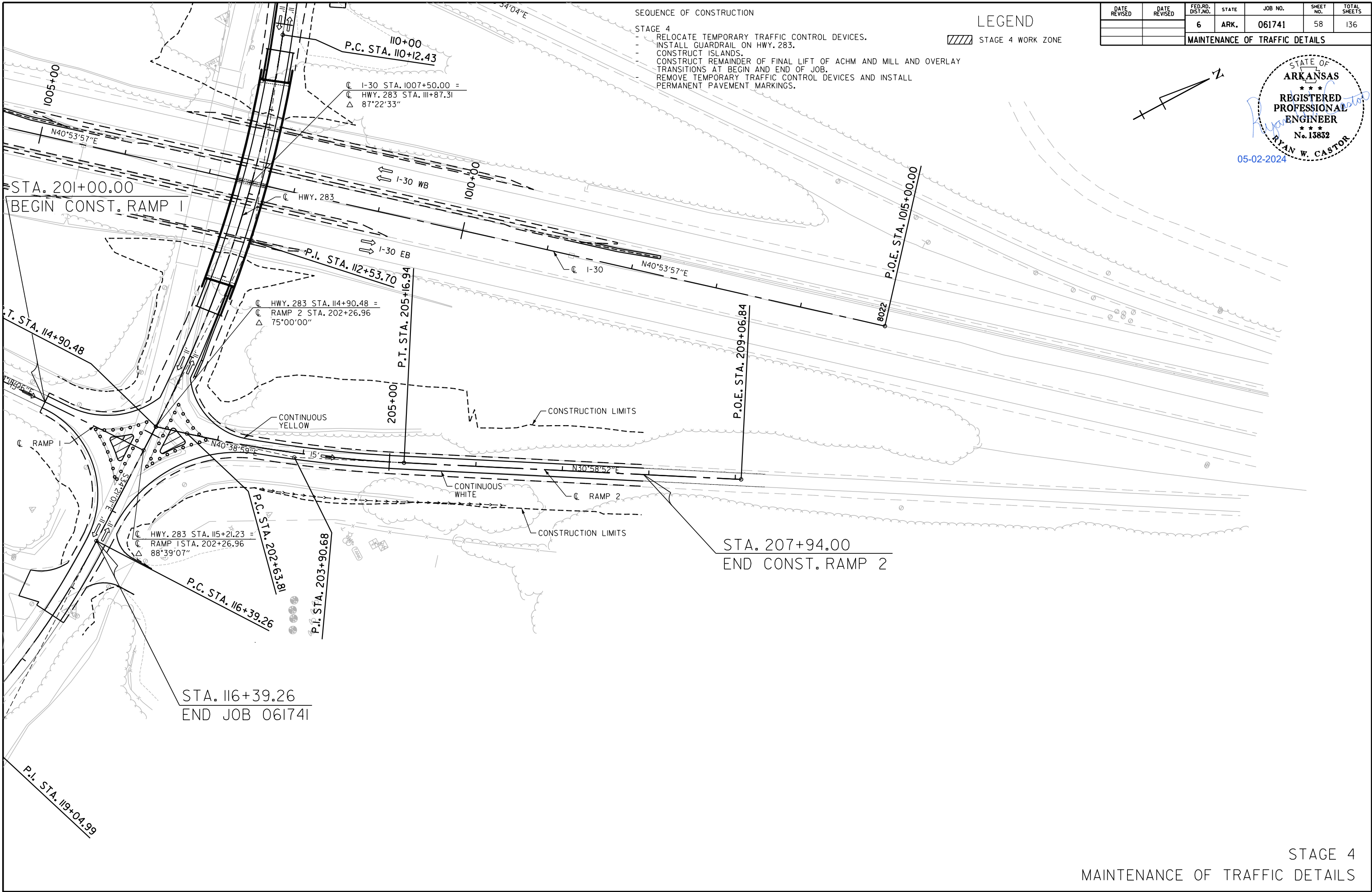


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STA. 116+39.26
END JOB 061741

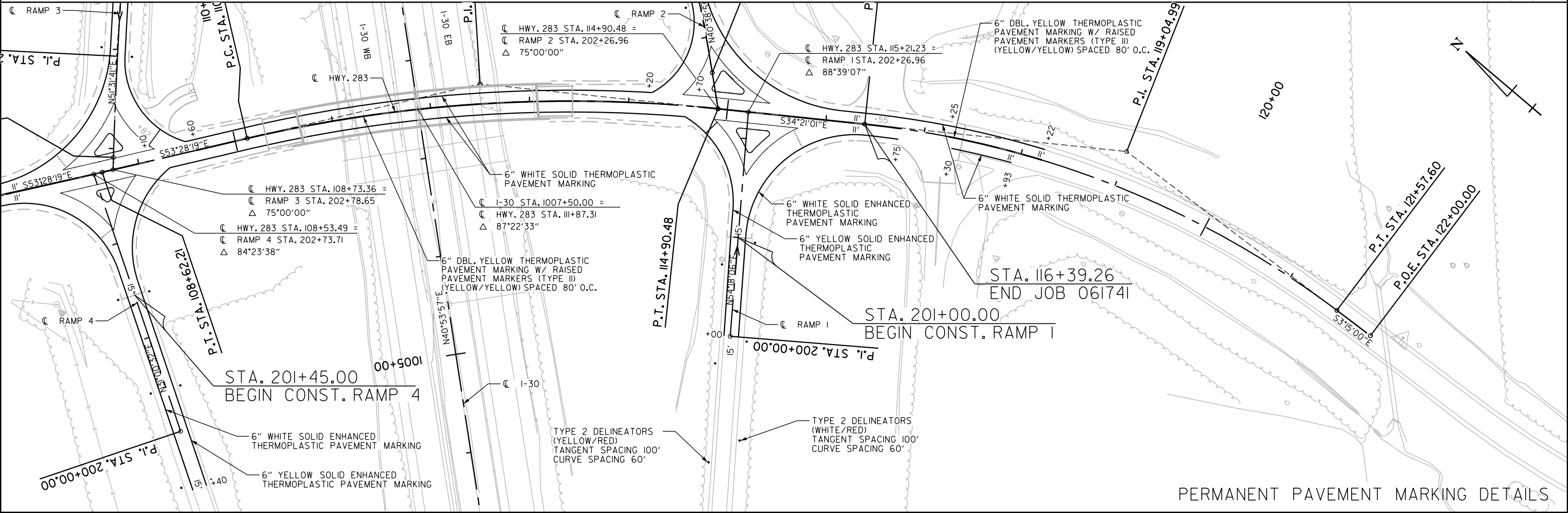
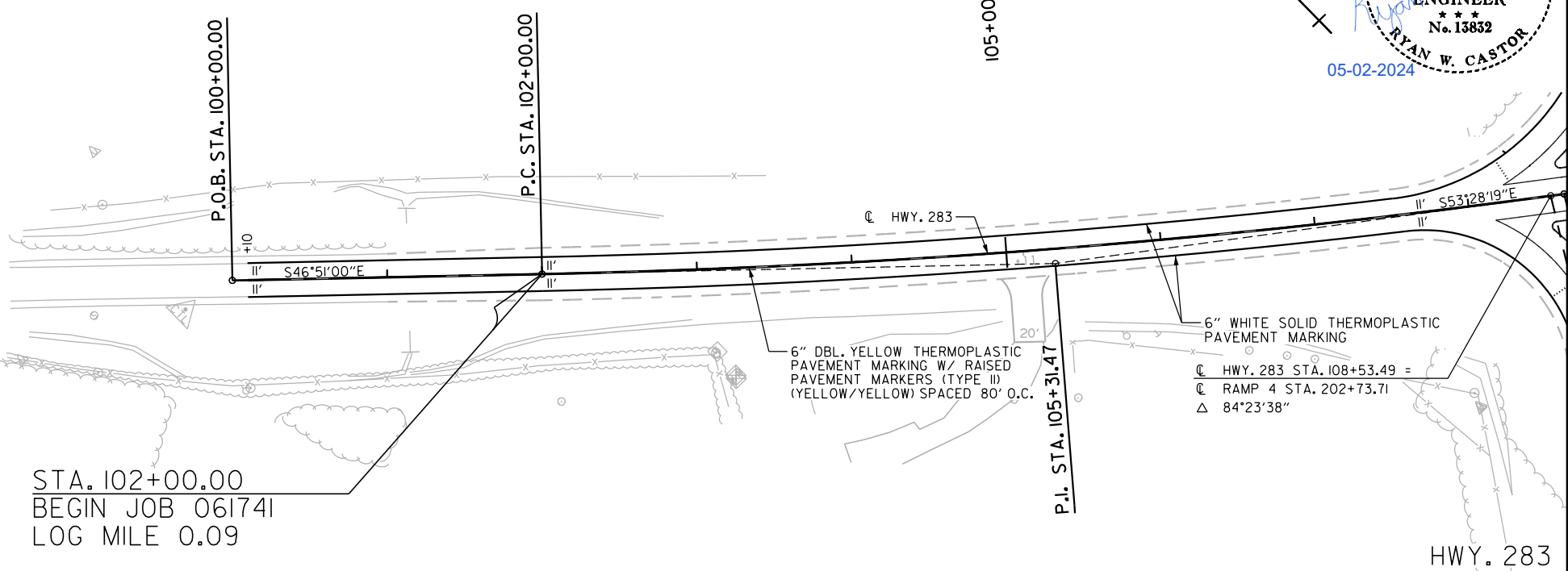
STA. 201+00.00
BEGIN CONST. RAMP 1



DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	59	136
PERMANENT PAVEMENT MARKING DETAILS						

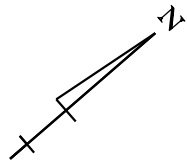


PERMANENT PAVEMENT MARKING QUANTITIES:		
ENHANCED THERMOPLASTIC PAVEMENT MARKING WHITE (6")	= 1775	LIN. FT.
ENHANCED THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	= 1546	LIN. FT.
THERMOPLASTIC PAVEMENT MARKING WHITE (6")	= 2794	LIN. FT.
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	= 3324	LIN. FT.
THERMOPLASTIC PAVEMENT MARKING WHITE (8")	= 897	LIN. FT.
THERMOPLASTIC PAVEMENT MARKING WHITE (12")	= 36	LIN. FT.
THERMOPLASTIC PAVEMENT MARKING (ARROWS)	= 2	EACH
THERMOPLASTIC PAVEMENT MARKING (YIELD LINE)	= 68	LIN. FT.
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (10")	= 306	LIN. FT.
RAISED PAVEMENT MARKERS (TYPE II) (YELLOW/YELLOW)	= 22	EACH
DELINEATORS (TYPE 2) (WHITE/RED)	= 57	EACH
DELINEATORS (TYPE 2) (YELLOW/RED)	= 57	EACH



PERMANENT PAVEMENT MARKING DETAILS

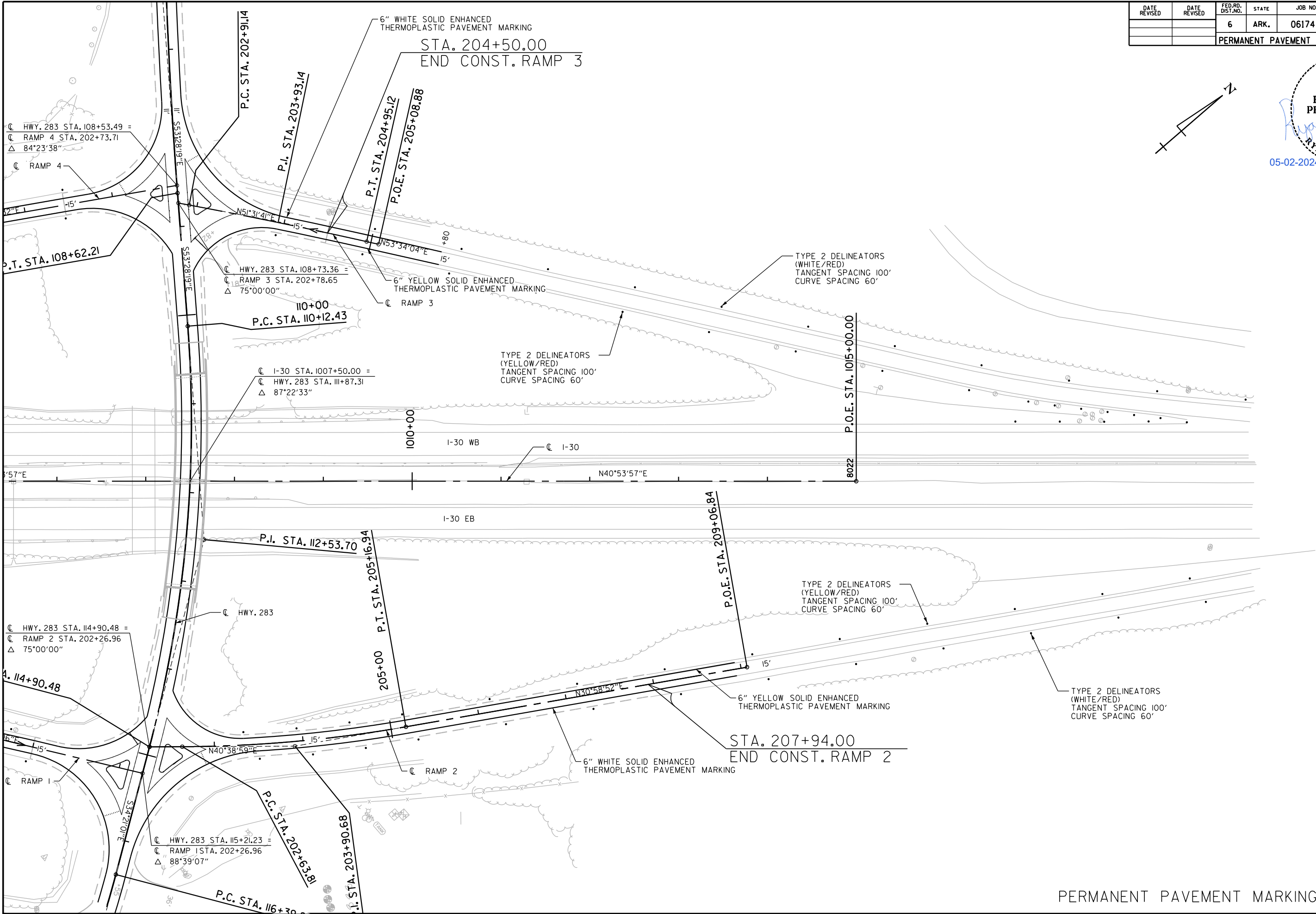
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	60	136
PERMANENT PAVEMENT MARKING DETAILS						



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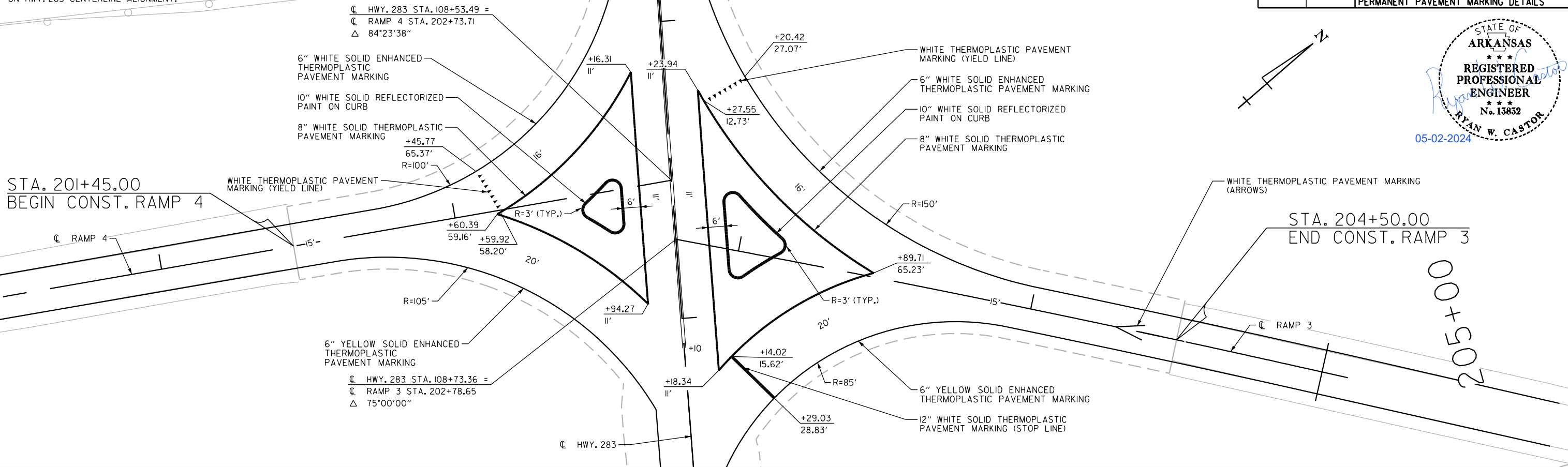
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PERMANENT PAVEMENT MARKING DETAILS

NOTES:
STATION AND OFFSETS LABELS ARE BASED
ON HWY. 283 CENTERLINE ALIGNMENT.

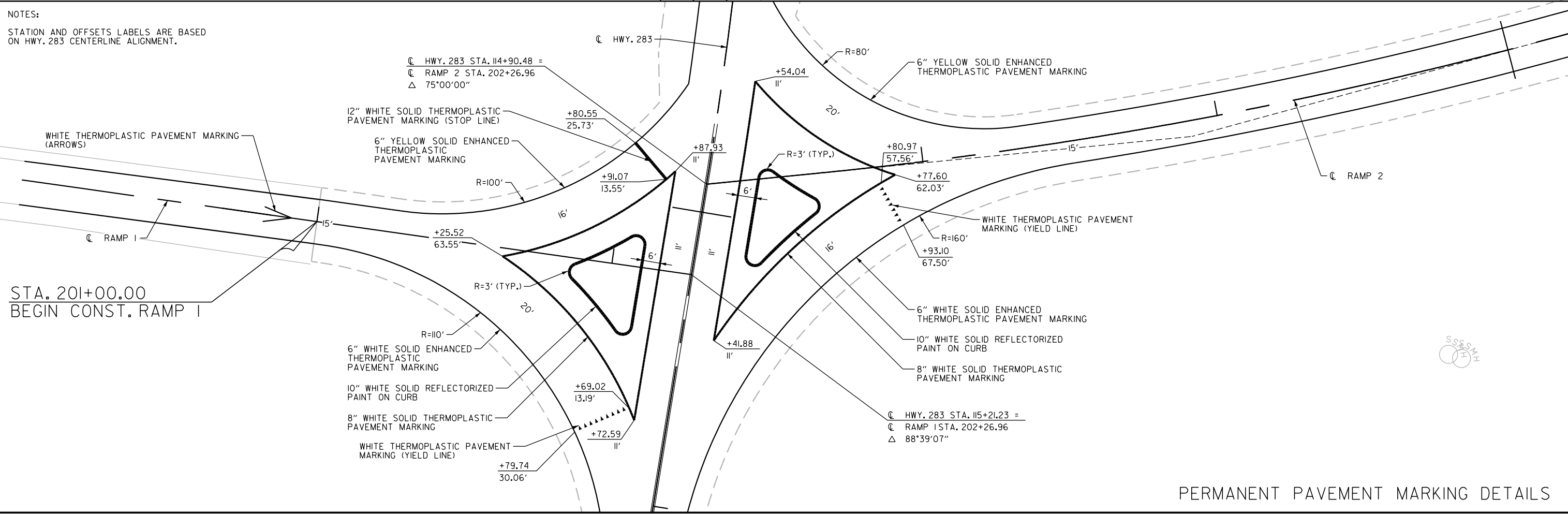
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	61	136
PERMANENT PAVEMENT MARKING DETAILS						



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NOTES:
STATION AND OFFSETS LABELS ARE BASED
ON HWY. 283 CENTERLINE ALIGNMENT.



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.	061741	62	136
QUANTITIES						



05-02-2024

CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	STAGE 1 STEP 1	STAGE 1 STEP 2	STAGE 2 STEP 1	STAGE 2 STEP 2	STAGE 3 STEP 1	STAGE 3 STEP 2	STAGE 3 STEP 3	END OF JOB	REMOVAL OF PERMANENT PAVEMENT MARKINGS	CONSTRUCTION PAVEMENT MARKINGS	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS	ENHANCED THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING						REFLECTORIZED PAINT PAVEMENT MARKING	DELINEATORS (TYPE 2)				
												TYPE II (YELLOW/YELLOW) EACH	6"		6"		8"	12"	ARROWS	YIELD LINE	10"	WHITE/RED	YELLOW/RED		
													WHITE	YELLOW	WHITE	YELLOW	WHITE	WHITE			WHITE				
				LIN. FT. - EACH					LIN. FT.		LIN. FT.			WHITE	YELLOW	WHITE	YELLOW	WHITE	WHITE	EACH	LIN. FT.	LIN. FT.	EACH		
REMOVAL OF PERMANENT PAVEMENT MARKINGS	5276		1972		1748				8996																
CONSTRUCTION PAVEMENT MARKINGS	5584	416	8936	727	9602	2104	1387			28756															
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS			4389	751	7188	2013	1332				15673														
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW)								22				22													
ENHANCED THERMOPLASTIC PAVEMENT MARKING WHITE (6")								1775					1775		1546										
ENHANCED THERMOPLASTIC PAVEMENT MARKING YELLOW (6")								1546																	
THERMOPLASTIC PAVEMENT MARKING WHITE (6")								2794								2794									
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")								3324									3324								
THERMOPLASTIC PAVEMENT MARKING WHITE (8")								897										897							
THERMOPLASTIC PAVEMENT MARKING WHITE (12")								36											36						
THERMOPLASTIC PAVEMENT MARKING (ARROWS)																				2					
THERMOPLASTIC PAVEMENT MARKING (YIELD LINE)								4													68				
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (10")								306														306			
DELINEATOR (TYPE 2) (WHITE/RED)																								57	
DELINEATOR (TYPE 2) (YELLOW/RED)																									57
TOTALS:									8996	28756	15673	22	1775	1546	2794	3324	897	36	2	68		306	57	57	

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

NOTE: NO PERMANENT PAVEMENT MARKINGS SHALL BE PLACED UNTIL A MINIMUM OF 3 DAYS AFTER ALL MAIN LANE PAVING HAS BEEN COMPLETED. IN ADDITION,
NO PERMANENT PAVEMENT MARKINGS SHALL BE PLACED DURING THE TIME PERIOD FROM DECEMBER 21 TO MARCH 15, INCLUSIVE.

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1 STEP 1	STAGE 1 STEP 2	STAGE 2 STEP 1	STAGE 2 STEP 2	STAGE 3 STEP 1	STAGE 3 STEP 2	STAGE 3 STEP 3	STAGE 4	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	BARRICADES (TYPE III)		FURNISHING & INSTALLING PRECAST CONC. BARRIER	RELOCATING PRECAST CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATION BARRIER	TEMP. IMPACT ATTEN.BARR. (REPAIR)	* ADVANCE WARNING ARROW PANEL	* PORTABLE CHANGEABLE MESSAGE SIGN	MOBILE SPEED NOTIFICATION SYSTEM (SPECIAL)						
												NO.	SQ. FT.		EACH	RIGHT								LEFT	LIN. FT.	EACH	DAY	WEEK	EACH
W20-1	ROAD WORK 1 MILE	48"x48"	4	4	4	4	4	4	4	4	4	4	64.0																
W20-1	ROAD WORK 1/2 MILE	48"x48"	4	4	4	4	4	4	4	4	4	4	64.0																
W20-1	ROAD WORK 1500 FT.	48"x48"	6	6	6	6	6	6	6	6	6	6	96.0																
W20-1	ROAD WORK 1000 FT.	48"x48"	4	4	4	4	4	4	4	4	4	4	64.0																
W20-1	ROAD WORK 500 FT.	48"x48"	2	2	2	2	2	2	2	2	2	2	32.0																
W20-1	ROAD WORK AHEAD	48"x48"	3	3	3	3	3	3	3	3	3	3	48.0																
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	2	2	2	2	2	2	2	2	2	2	32.0																
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	2	2	2	2	2	2	2	2	2	2	32.0																
W20-5	RIGHT LANE CLOSED 1500 FT.	48"x48"	2	2	2	2	2	2	2	2	2	2	32.0																
G20-2	END ROAD WORK	48"x24"	9	9	9	9	9	9	9	9	9	9	72.0																
G20-5aP	WORK ZONE	36"x24"	2	2	2	2	2	2	2	2	2	2	12.0																
W1-4AR	REVERSE CURVE RT.	36"x36"			3	4	1		1		4	4	36.0																
W1-4AL	REVERSE CURVE LT.	36"x36"			2	1	2	2			2	2	18.0																
W13-4P	ON RAMP	36"x36"	2	2	2	2	2	2	2	2	2	2	18.0																
W5-4	RAMP NARROWS	48"x48"	1	1	1	1	1	1	1	1	1	1	16.0																
R11-2	ROAD CLOSED	48"x30"			2	2	3	3	2		3	3	30.0																
R55-1	FINES DOUBLE IN WORK ZONE	36"x60"	4	4	4	4	4	4	4	4	4	4	60.0																
OM-3R	OBJECT MARKER	12"x36"	8	8	12	12	4	4	4	4	12	12	36.0																
OM-3L	OBJECT MARKER	12"x36"	4	4	8	8	4	4	4	4	8	8	24.0																
W1-6	LARGE ARROW	48"x24"					3	3	1		3	3	24.0																
W1-6	LARGE ARROW	60"x30"	6	6	6	6	6	6	6	6	6	6	75.0																
W3-5	REDUCED SPEED ZONE AHEAD	48"x48"	2	2	2	2	2	2	2	2	2	2	32.0																
W4-2 RT.	RT. LANE ENDS	48"x48"	2	2	2	2	2	2	2	2	2	2	32.0																
W5-1	ROAD NARROWS	36"x36"	2	2							2	2	18.0																
R2-1	SPEED LIMIT (A)	48"x60"	2	2	2	2	2	2	2	2	2	2	40.0																
R2-1	SPEED LIMIT (B)	48"x60"	2	2	2	2	2	2	2	2	2	2	40.0																
R4-2	DO NOT PASS	24"x30"	2	2	2	2	2	2	2	2	2	2	10.0																
R4-1	DO NOT PASS	48"x60"	4	4	4	4	4	4	4	4	4	4	80.0																
R10-19aP	PHOTO ENFORCED	48"x36"	2	2	2	2	2	2	2	2	2	2	16.0																
W21-5a	RIGHT SHOULDER CLOSED	36"x36"	4	4	4	4	4	4	4	4	4	4	36.0																
W21-5b	LEFT SHOULDER CLOSED	36"x36"	2	2	2	2	2	2	2	2	2	2	18.0																
W8-1	BUMP	36"x36"	2	2	2	2	2	2	2	2	2	2	18.0																
W8-17	UNEVEN LANES	36"x36"			1	1					1	1	9.0																
WZ-1	NOTICE SPEED PHOTO ENFORCED WORK ZONE	84"x60"	4	4	4	4	4	4	4	4	4	4	140.0																
SPECIAL	MERGE NOW	48"x48"	1	1	1	1	1	1	1	1	1	1	16.0																
	TRAFFIC DRUMS		120	172	123	115	104	66	16	82	172			172															
	TYPE III BARRICADE-RT. (16')				1	1	3	3	2		3				48														
	TYPE III BARRICADE-LT. (16')				1	1	3	3	2		3					48													
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		3059	3059	3259	3259	180	180	180	206	3259						3259												
	RELOCATING PRECAST CONCRETE BARRIER						180			100	180							180											
	TEMPORARY IMPACT ATTENUATION BARRIER		1	1	2	2	1	1	1	2	2								2										
	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)		1	1	2	2	1	1	1	2	2									2									
	ADVANCE WARNING ARROW PANEL		2	2	2	2	2	2	2	2	2										40								
	PORTABLE CHANGEABLE MESSAGE SIGN		2	2	2	2	2	2	2	2	2											4							
	MOBILE SPEED NOTIFICATION SYSTEM (SPECIAL)		2	2	2	2	2	2	2	2	2												2						
	IF AND WHERE DIRECTED BY THE ENGINEER													94															
TOTALS:													1390.0	266	48	48	3259	180	2	2	40	4	2						

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

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

QUANTITIES

5/2/2024 2:45:29 PM
...\\Road_Sheets\OT\061741_0101

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	63	136
QUANTITIES						



EROSION CONTROL													
STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL					
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS	ROCK DITCH CHECKS	SILT FENCE
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	(E-5) BAG	(E-6) CU.YD.	(E-11) LIN. FT.
ENTIRE	PROJECT	CLEARING AND GRUBBING						9.07	9.07	185.0		138	1598
ENTIRE	PROJECT	STAGE 1						3.10	3.10	63.2		9	3
ENTIRE	PROJECT	STAGE 2						1.31	1.31	26.7		9	190
ENTIRE	PROJECT	STAGE 3	8.82	17.64	8.82	899.6	8.82					6	2
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			2.20	4.40	2.20	224.4	2.20	3.50	3.50	71.4	176	45	450
TOTALS:			11.02	22.04	11.02	1124.0	11.02	16.98	16.98	346.3	176	207	2238

BASIS OF ESTIMATE:
LIME2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
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.

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	
100+00	119+00	HWY. 283 LT. & RT.	19	19
202+00	209+00	RAMP 2 LT. & RT.	7	7
TOTALS:			26	26

BENCH MARKS

STATION	LOCATION	BENCH MARKS
		EACH
110+66	HWY. 283 - BRIDGE END	1
TOTAL:		1

NOTE: SHOWN FOR INFORMATION ONLY. BENCH MARKS SHALL BE FURNISHED AND PLACED BY STATE FORCES.

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
ENTIRE	PROJECT	STAGE 1-HWY. 283	327	1088
ENTIRE	PROJECT	STAGE 2-HWY. 283	843	1069
ENTIRE	PROJECT	STAGE 3-HWY. 283	5572	307
ENTIRE	PROJECT	APPROACHES		79
ENTIRE	PROJECT	STAGE 1 - RAMP 1	40	
ENTIRE	PROJECT	STAGE 3 STEP 1 - RAMP 1	111	3
ENTIRE	PROJECT	STAGE 3 STEP 2 - RAMP 1	306	
ENTIRE	PROJECT	STAGE 1 - RAMP 2	303	31
ENTIRE	PROJECT	STAGE 2 - RAMP 2	217	1702
ENTIRE	PROJECT	STAGE 3 - RAMP 2	1875	1459
ENTIRE	PROJECT	STAGE 1 - RAMP 3	72	3
ENTIRE	PROJECT	STAGE 2 STEP 1 - RAMP 3	208	202
ENTIRE	PROJECT	STAGE 2 STEP 2 - RAMP 3	75	2
ENTIRE	PROJECT	STAGE 1 - RAMP 4	69	
ENTIRE	PROJECT	STAGE 3 STEP 1 - RAMP 4	34	
ENTIRE	PROJECT	STAGE 3 STEP 2 - RAMP 4	385	
ENTIRE	PROJECT	STAGE 3 STEP 3 - RAMP 4	146	3
ENTIRE	PROJECT	I-30	449	14
110+66.22	113+08.39	BR. 07680	1666	
TOTALS:			12698	5962

NOTE: EARTHWORK QUANTITIES SHALL BE PAID AS PLAN QUANTITY.

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.
110+28.00	110+28.00	HWY. 283 RT.	29.84	6.00	19.89	13.26	0.17
113+46.00	113+46.00	HWY. 283 RT.	7.98	6.00	5.32	3.55	0.04
1004+34.57	1005+34.57	I-30 WB RT.	100.00	4.00	37.00	44.44	0.56
1011+29.57	1012+29.57	I-30 WB RT.	100.00	4.00	38.38	44.44	0.56
TOTALS:					100.59	105.69	1.33

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

FENCING

STATION	STATION	LOCATION	WIRE FENCE
			(TYPE C)
			LIN. FT.
103+15	108+01	HWY. 283 LT.	490
TOTAL:			490

GUARDRAIL

STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
			LIN. FT.	EACH		
109+37.74	110+56.49	HWY. 283 RT.	50	1		1
109+57.45	110+51.20	HWY. 283 LT.	25	1		1
113+19.79	114+38.54	HWY. 283 RT.	50	1		1
113+21.74	114+15.49	HWY. 283 LT.	25	1		1
1007+01.50	1010+26.50	I-30 WB LT.	275		1	1
1005+44.57	1011+19.57	I-30 WB RT.	525		1	1
1003+73.89	1008+73.89	I-30 EB LT.	450		1	1
1004+14.52	1007+89.52	I-30 EB RT.	325		1	1
TOTALS:			1725	4	4	8

REMOVAL AND DISPOSAL OF FENCE

STATION	STATION	LOCATION	FENCE
			LIN. FT.
103+15	108+01	HWY. 283 LT.	490
TOTAL:			490

WIRE ROPE SAFETY FENCE

STATION	STATION	LOCATION	WIRE ROPE SAFETY FENCE - REMOVE AND RECONSTRUCT	WIRE ROPE SAFETY FENCE (POST REPAIR)	TEMPORARY TERMINAL ANCHOR FOR WIRE ROPE SAFETY FENCE
			LIN. FT.	EACH	EACH
1004+35	1005+95	I-30 WESTBOUND RT.	160		
1010+70	1012+30	I-30 WESTBOUND RT.	160		
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.				20	2
TOTALS:			320	20	2

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

QUANTITIES

STATION	STATION	LOCATION	CURB	WIRE ROPE SAFETY FENCE	CONCRETE PAVEMENT	CONCRETE ISLANDS	CONCRETE PIER PROTECTION	SIGN FOUNDATIONS	GUARDRAIL	SIGNS	CONCRETE DITCH PAVING
			LIN. FT.	LIN. FT.	SQ. YD.	SQ. YD.	LIN. FT.	EACH	LIN. FT.	EACH	SQ. YD.
108+50	108+82	HWY. 283 RT. (EXIST. HWY. 283 LT.)	87			42					
108+45	108+76	HWY. 283 RT. (EXIST. HWY. 283 RT.)	84			39					
114+93	115+35	HWY. 283 LT.	119			75					
115+08	115+48	HWY. 283 RT.	108			62					
101+89		HWY. 283 RT.								2	
105+66		HWY. 283 RT.								1	
106+18		HWY. 283 LT.								1	
106+94		HWY. 283 RT.								1	
108+33		HWY. 283 LT.						2		1	
108+75		HWY. 283 RT.								1	
109+47		HWY. 283 RT.								1	
109+62		HWY. 283 RT.								2	
113+29		HWY. 283 RT.								1	
113+37		HWY. 283 RT.								1	
114+42		HWY. 283 RT.								2	
114+77		HWY. 283 RT.								1	
115+02		HWY. 283 LT.						1			
115+21		HWY. 283 RT.								1	
116+34		HWY. 283 LT.								2	
116+79		HWY. 283 LT.								1	
201+77		RAMP 1 RT.								1	
202+73		RAMP 2 RT.								1	
201+91		RAMP 4 LT.								1	
202+12		RAMP 4 RT.						1		1	
202+28		RAMP 4 LT.						2		2	
109+34	110+34	HWY. 283 RT.							100		
109+38	110+38	HWY. 283 RT.							100		
113+25	114+25	HWY. 283 RT.							100		
113+34	114+34	HWY. 283 RT.							100		
1007+37	1009+87	I-30 WB LT.							250		
1005+57	1006+82	I-30 WB RT.							125		
1007+13	1010+85	I-30 WB RT.							370		
1003+10	1006+81	I-30 EB LT.							370		
1007+15	1008+39	I-30 EB LT.							125		
1004+08	1006+81	I-30 EB RT.							275		
201+00	201+99	RAMP 1			267						
202+31	207+94	RAMP 2			1007						
202+79	204+50	RAMP 3			400						
201+45	202+17	RAMP 4			200						
1004+34.57	1005+45.56	I-30 WB RT.									44
1010+98.02	1012+29.50	I-30 WB RT.									50
1006+81		I-30 EB RT.				30					
1006+82		I-30 WB LT.				30					
1006+86		MEDIAN				40					
1005+95	1006+08	I-30 WB RT.		13							
1007+88	1010+70	I-30 WB RT.		282							
TOTALS:			398	295	1874	218	100	6	1915	25	94

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	64	136
QUANTITIES						



DUMPED RIPRAP AND FILTER BLANKET			
STATION	LOCATION	DUMPED RIPRAP	FILTER BLANKET
		CU. YD.	SQ. YD.
110+28	HWY. 283 RT.	9	18
113+46	HWY. 283 RT.	9	18
	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	9	18
TOTALS:		27	54

*NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS

NOTE: FILTER BLANKET SHALL BE GEOTEXTILE FABRIC (TYPE 5).

CONCRETE ISLAND			
STATION	LOCATION	CURB FACE TYPE	CONCRETE ISLAND SQ. YD.
108+62	HWY. 283 RT.	C	18
108+80	HWY. 283 LT.	C	39
114+90	HWY. 283 LT.	C	48
115+28	HWY. 283 RT.	C	53
TOTAL:			158

ACHM PATCHING OF EXISTING ROADWAY	
DESCRIPTION	TON
ENTIRE PROJECT - TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	10
TOTAL:	10

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

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

STATION	STATION	LOCATION	* RUMBLE STRIPS IN ASPHALT SHOULDERS
			LIN. FT.
101+00	117+39	HWY. 283 LT. & RT.	1088
TOTAL:			1088

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

STATION	SIDE	LOCATION	WIDTH	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)	SIDE DRAINS 22"X14" LIN. FT.	STANDARD DRAWINGS
				FEET				
105+11	RT.	HWY. 283	20	98.87	10.88	40.37		DR-2
116+55	LT.	HWY. 283	36	247.00	27.17	100.86		DR-2
202+82	RT.	RAMP 3	18	98.66	10.85	40.29	29	DR-2, PCC-1, PCM-1
* ENTIRE PROJECT TEMPORARY DRIVES						30.00		
TOTALS:				444.53	48.90	211.52	29	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2") (PG 64-22).....94.3% MIN. AGGR.....5.7% ASPHALT BINDER

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

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.
NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

STATION	STATION	LOCATION	APPROACH GUTTER (TYPE F)	APPROACH SLABS (TYPE F)	REINFORCING STEEL-RDWY. (GR. 60)	AGGREGATE BASE CRS. (CLASS 7)
			CU. YD.	CU. YD.	POUND	TON
110+31.22	110+66.22	BEGIN BRIDGE NO. 07680	8.20	59.30	7660	41.48
113+08.39	113+43.39	END BRIDGE NO. 07680	8.20	59.30	7660	41.48
TOTALS:			16.40	118.60	15320	82.96

PCCP PATCHING		
LOCATION	* REM. & DISP. CONC. PVMT. FOR PATCHING	* P.C.C.P. PATCHING (8" U.T.)
	SQ. YD.	SQ. YD.
ENTIRE PROJECT - TO BE USED IF AND WHERE DRECTED BY THE ENGINEER	140	140
TOTALS:	140	140

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

4" PIPE UNDERDRAIN				
STATION	STATION	LOCATIONS	4" PIPE UNDERDRAINS	UNDERDRAIN OUTLET PROTECTORS
			LIN. FT.	EACH
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			2000	8
TOTALS:			2000	8

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

STATION	STATION	LOCATION	LENGTH	AVG. WID.	DEPTH	CLASS S CONCRETE - ROADWAY
			LIN. FT.	FEET	INCH	CU. YD.
200+97.00	201+00.00	RAMP 1	3.00	15.00	12.00	1.67
207+94.00	207+97.00	RAMP 2	3.00	15.00	12.00	1.67
204+50.00	204+53.00	RAMP 3	3.00	15.00	12.00	1.67
201+42.00	201+45.00	RAMP 4	3.00	15.00	12.00	1.67
TOTAL:						6.68

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	65	136
QUANTITIES						



BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT						ACHM BINDER COURSE (1")					ACHM SURFACE COURSE (1 1/2")														
				TON / STATION	TON	(0.05 GAL. PER SQ. YD.)			(0.17 GAL. PER SQ. YD.)			TOTAL GALLONS	AVG. WID.	SQ. YD.	POUND / SQ. YD.	PG 64-22	PG 76-22	AVG. WID.	SQ. YD.	POUND / SQ. YD.	PG 64-22	PG 76-22	AVG. WID.	SQ. YD.	POUND / SQ. YD.	PG 64-22	PG 76-22	TOTAL PG 64-22	TOTAL PG 76-22		
						TOTAL WID. FEET	SQ. YD.	GALLON	TOTAL WID. FEET	SQ. YD.	GALLON																			FEET	
MAIN LANES																															
101+00.00	102+00.00	HWY. 283 MILL & OVERLAY TRANSITION	100.00																												
102+00.00	107+02.64	HWY. 283 NOTCH & WIDEN	502.64	VAR.	730.08	15.17	847.23	42.36				56.67		7.64	426.69	330.00	70.40		7.53	420.54	220.00	46.26		30.00	333.33	220.00	36.67		36.67		
107+02.64	110+31.22	HWY. 283 FULL DEPTH	328.58	202.00	663.73	44.71	1632.31	81.62					81.62	22.46	819.99	330.00	135.30		22.25	812.32	220.00	89.36		30.00	1095.27	220.00	120.48		209.84		
113+43.39	114+28.96	HWY. 283 FULL DEPTH	85.57	202.00	172.85	44.71	425.09	21.25					21.25	22.46	213.54	330.00	35.23		22.25	211.55	220.00	23.27		30.00	285.23	220.00	31.38		54.65		
114+28.96	116+39.26	HWY. 283 NOTCH & WIDEN	210.30	VAR.	308.62	15.94	372.46	18.62					18.62	8.02	187.40	330.00	30.92		7.92	185.06	220.00	20.36		30.00	701.00	220.00	77.11		97.47		
116+39.26	117+39.26	HWY. 283 MILL & OVERLAY TRANSITION	100.00						30.00	333.33	56.67	56.67											30.00	333.33	220.00				36.67		
201+00.00	201+03.16	RAMP 1 FULL DEPTH	3.16	175.75	5.55	30.71	10.78	0.54				0.54	15.46	5.43	330.00			0.90	15.25	5.35	220.00		0.59	25.00	8.78	220.00				8.78	
201+03.16	202+15.96	RAMP 1 RETURNS FULL DEPTH	112.80	318.75	359.55	103.69	1299.58	64.98				64.98	51.90	650.48	330.00			107.33	51.79	649.10	220.00		71.40	65.10	797.92	220.00		87.77	159.17	87.77	
202+38.34	203+50.25	RAMP 2 RETURNS FULL DEPTH	111.91	321.50	359.79	105.09	1306.74	65.34				65.34	52.60	654.05	330.00			107.92	52.49	652.68	220.00		71.79	66.66	790.88	220.00		87.00	158.79	87.00	
203+50.25	207+94.00	RAMP 2 FULL DEPTH	443.75	175.75	779.89	30.71	1514.17	75.71				75.71	15.46	762.26	330.00			125.77	15.25	751.91	220.00		82.71	25.00	1232.64	220.00		135.59	278.30	135.59	
202+90.04	204+01.47	RAMP 3 RETURNS FULL DEPTH	111.43	333.00	371.06	110.97	1373.93	68.70				68.70	55.54	687.65	330.00			113.46	55.43	686.28	220.00		75.49	69.49	812.36	220.00		89.36	164.85	89.36	
204+01.47	204+50.00	RAMP 3 FULL DEPTH	48.53	175.75	85.29	30.71	165.60	8.28				8.28	15.46	83.36	330.00			13.75	15.25	82.23	220.00		9.05	25.00	134.81	220.00		14.83	23.88	14.83	
201+45.00	201+57.34	RAMP 4 FULL DEPTH	12.34	175.75	21.69	30.71	42.11	2.11				2.11	15.46	21.20	330.00			3.50	15.25	20.91	220.00		2.30	25.00	34.28	220.00		3.77	6.07	3.77	
201+57.34	202+62.65	RAMP 4 RETURNS FULL DEPTH	105.31	312.00	328.57	100.21	1172.57	58.63				58.63	50.16	586.93	330.00			96.84	50.05	585.64	220.00		64.42	63.11	685.46	220.00		75.40	139.82	75.40	
ADDITIONAL FOR GRADE RAISE																															
102+00.00	107+02.64	HWY. 283 LEVELING	502.64			14.47	808.13	40.41	14.47	808.13	137.38	177.79											14.47	755.13	VAR.	41.53		41.53			
114+28.96	116+39.26	HWY. 283 LEVELING	210.30			14.08	329.00	16.45	14.08	329.00	55.93	72.38										14.08	276.00	VAR.	15.18		15.18				
102+40.00	107+02.64	HWY. 283 METHOD OF RAISING GRADE	462.64			14.47	743.82	37.19	14.47	743.82	126.45	163.64		14.08	205.00	VAR.	33.83		14.47	743.82	VAR.		122.73					122.73			
114+28.96	115+60.00	HWY. 283 METHOD OF RAISING GRADE	131.04			28.16	410.01	20.50	14.08	205.00	34.85	55.35						14.08	205.00	VAR.	11.28							11.28			
ADDITIONAL FOR FULL DEPTH SHOULDERS																															
201+00.00	202+17.08	RAMP 1 LT.	117.08	-15.50	-18.15	8.42	109.53	5.48				5.48	4.29	55.81	330.00			9.21	4.13	53.73	220.00			5.91						5.91	
202+38.34	203+50.25	RAMP 2 RETURN RT.	111.91	-23.25	-26.02	21.48	267.09	13.35				13.35	10.82	134.54	330.00			22.20	10.66	132.55	220.00			14.58						14.58	
203+50.25	207+94.00	RAMP 2 RT.	443.75	-23.25	-103.17	12.42	612.38	30.62				30.62	6.29	310.13	330.00			51.17	6.13	302.24	220.00			33.25						33.25	
203+63.62	204+50.00	RAMP 3 LT.	86.38	-23.25	-20.08	12.42	119.20	5.96				5.96	6.29	60.37	330.00			9.96	6.13	58.63	220.00			6.47						6.47	
201+45.00	201+57.34	RAMP 4 RT.	12.34	-15.50	-1.91	8.42	11.54	0.58				0.58	4.29	5.88	330.00			0.97	4.13	5.66	220.00			0.62						0.62	
201+57.34	202+66.13	RAMP 4 RETURN RT.	88.79	-15.50	-13.76	11.49	113.36	5.67				5.67	5.82	57.42	330.00			9.47	5.67	55.94	220.00			6.15						6.15	
ADDITIONAL FOR GUARDRAIL & TEMPORARY WIDENING																															
109+20.22	110+56.49	HWY. 283 RT.	136.27	18.00	24.53																		6.02	91.15	220.00	10.03		10.03			
109+42.35	110+51.20	HWY. 283 LT.	108.85	17.50	19.05																		5.96	72.08	220.00	7.93		7.93			
113+19.79	114+65.52	HWY. 283 RT.	145.73	19.00	27.69																		6.18	100.07	220.00	11.01		11.01			
113+21.74	114+30.79	HWY. 283 LT.	109.05	17.75	19.36																		5.97	72.34	220.00	7.96		7.96			
1003+30.89	1009+16.89	I-30 EB LT.	586.00	33.25	194.85																		7.04	458.38	220.00	50.42		50.42			
1003+71.52	1008+32.52	I-30 EB RT.	461.00	25.00	115.25																		4.97	254.57	220.00	28.00		28.00			
1004+86.57	1011+77.57	I-30 WB RT.	691.00	38.50	266.04																		8.41	645.70	220.00	71.03		71.03			
1006+58.50	1010+89.50	I-30 WB LT.	411.00	26.50	108.92																		5.36	244.77	220.00	26.92		26.92			
100+40.00	108+03.59	HWY. 283 TEMPORARY WIDENING RT.	763.59	39.50	301.62	VAR.	638.87	31.94				31.94	VAR.	638.87	330.00	105.41							VAR.	626.14	220.00	68.88		68.88			
113+41.52	114+89.47	HWY. 283 TEMPORARY WIDENING RT.	147.95	44.25	65.47	VAR.	143.84	7.19				7.19	VAR.	143.84	330.00	23.73							VAR.	141.37	220.00	15.55		15.55			
115+84.84	116+80.87	HWY. 283 TEMPORARY WIDENING RT.	96.03	53.75	51.62	VAR.	119.82	5.99				5.99	VAR.	119.82	330.00	19.77							VAR.	118.22	220.00	13.00		13.00			
200+00.00	202+04.37	RAMP 1 TEMPORARY WIDENING RT.	204.37	38.50	78.68	VAR.	164.86	8.24				8.24	VAR.	164.86	330.00	27.20							VAR.	161.45	220.00	17.76		17.76			
200+00.00	201+44.29	RAMP 1 TEMPORARY WIDENING LT.	144.29	25.75	37.15	VAR.	64.45	3.22				3.22	VAR.	64.45	330.00	10.63							VAR.	62.04	220.00	6.82		6.82			
202+32.43	208+94.00	RAMP 2 TEMPORARY WIDENING LT.	661.57	57.25	378.75	VAR.	887.97	44.40				44.40	VAR.	887.97	330.00	146.52							VAR.	876.95	220.00	96.46		96.46			
202+47.85	206+27.05	RAMP 2 TEMPORARY WIDENING RT.	379.20	22.75	86.27	VAR.	136.09	6.80				6.80	VAR.	136.09	330.00	22.45							VAR.	129.77	220.00	14.27		14.27			
202+78.65	205+39.08	RAMP 3 TEMPORARY WIDENING RT.	260.43	51.00	132.82	VAR.	302.97	15.15				15.15	VAR.	302.97	330.00	49.99							VAR.	298.63	220.00	32.85		32.85			
199+70.00	201+87.16	RAMP 4 TEMPORARY WIDENING LT.	217.16	39.75	86.32	VAR.	182.90	9.15				9.15	VAR.	182.90	330.00	30.18							VAR.	179.28	220.00	19.72		19.72			
199+70.00	201+45.00	RAMP 4 TEMPORARY WIDENING RT.	175.00	26.75	46.81	VAR.	82.64	4.13				4.13	VAR.	82.64	330.00	13.64							VAR.	79.72	220.00	8.77		8.77			
ADDITIONAL FOR SUPERELEVATION																															
108+62.43	110+62.43	HWY. 283 SUPERELEVATION TRANSITION	200.00	22.63	45.26																										
110+62.43	110+66.22	HWY. 283 MAX SUPERELEVATION (0.052%)	3.79	45.25	1.71																										

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	66	136
		07680 - QUANTITIES			- 67304	

SCHEDULE OF BRIDGE QUANTITIES - JOB NO. 061741

BRIDGE NO.	NAME PLATE TITLE	UNIT OF STRUCTURE	ITEM NO.	205	801	SP, SS & 802	SP, SS & 802	SP & 803	SS & 804	SS & 804	SS & 805	SS & 805	SP, SS & 807	SS & 807	SS & 808
			ITEM	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. _)	UNCLASSIFIED EXCAVATION FOR STRUCTURES - BRIDGE	CLASS S CONCRETE - BRIDGE	CLASS S(AE) CONCRETE - BRIDGE	CLASS 2 PROTECTIVE SURFACE TREATMENT	REINFORCING STEEL - BRIDGE (GRADE 60)	EPOXY COATED REINFORCING STEEL (GRADE 60)	STEEL PILING (HP12X53) ② ③	PREBORING ②	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50)	PAINTING STRUCTURAL STEEL	ELASTOMERIC BEARINGS
			UNIT	LUMP SUM	CU. YD.	CU. YD.	CU. YD.	SQ. YD.	LB.	LB.	LIN. FT.	LIN. FT.	LB.	TON	CU. IN.
07680	HIGHWAY 283 OVER INTERSTATE 30				78	41.70		14.1	6,760	560	23	22	710	0.2	1,741.0
		BENT NO. 2			6	93.60			17,140						2,902.0
		BENT NO. 3			125	41.90		14.1	6,810	560	32	31	710	0.2	1,741.0
		240'-0" CONTINUOUS PLATE GIRDER UNIT					280.70	1,103.6		84,260			355,090	170.0	
		EXISTING BRIDGE NO. 03896 (SITE NO. 1)	1												
		TOTALS FOR JOB NO. 061741			① 209	177.20	280.70	1,131.8	30,710	85,380	55	53	356,510	170.4	6,384.0

BRIDGE NO.	NAME PLATE TITLE	UNIT OF STRUCTURE	ITEM NO.	SS & 809	812	SS & 816	SP	SP	SP	SP	SP	SP	SP	SP
			ITEM	SILICONE JOINT SEALANT	BRIDGE NAME PLATE (TYPE D)	CONCRETE RIPRAP	DRILLED SHAFT (42" DIA.) ②	DRILLED SHAFT (66" DIA.) ②	PERMANENT STEEL CASING (48" DIA.) ②	CROSSHOLE SONIC LOGGING (42" DIA.)	CROSSHOLE SONIC LOGGING (66" DIA.)	CORING DRILLED SHAFT ②	ARCHITECTURAL FINISH	TEXTURED COATING FINISH
			UNIT	LIN. FT.	EACH	CU. YD.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	LIN. FT.	SQ. FT.	SQ. YD.
07680	HIGHWAY 283 OVER INTERSTATE 30			37	1	25	95		21	4		27	43	27
		BENT NO. 2					56			3		19	315	199
		BENT NO. 3		37		17	74		17	4		28	43	27
		240'-0" CONTINUOUS PLATE GIRDER UNIT											974	285
		EXISTING BRIDGE NO. 03896 (SITE NO. 1)												
		TOTALS FOR JOB NO. 061741		74	1	42	169	56	38	8	3	74	1,375	538

- ① Includes approximately 23 cubic yards of rock excavation.
- ② The quantities shown are for estimating and bidding purposes only. Actual quantities will be determined in the field.
- ③ These steel piles shall be Grade 50 and are required to have QPL approved special driving points which will not be paid for directly but shall be considered subsidiary to the item "STEEL PILING (HP12X53)".

TABLE OF APPROACH SLAB QUANTITIES

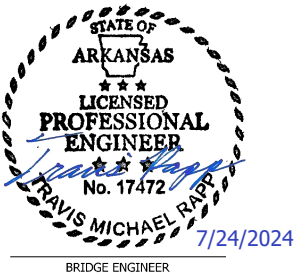
(FOR INFORMATION ONLY)

BRIDGE NO.	ITEM	REINFORCING STEEL	CONCRETE
	UNIT	LB.	CU. YDS.
07680	Begin Bridge	7,240	59.30
	End Bridge	7,240	59.30

QUANTITIES FOR ONE APPROACH GUTTER

(FOR INFORMATION ONLY)

BRIDGE NO.	REINFORCING STEEL	CONCRETE
	LB.	CU. YDS.
07680	210	4.10



SCHEDULE OF BRIDGE QUANTITIES
I-30 STR. & APPRS. (HWY. 283) (S)
HOT SPRING COUNTY
ROUTE 283 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JCR DATE: 2/2024 FILENAME: b061741_q1
CHECKED BY: HRA DATE: 3/2024 SCALE: NONE
DESIGNED BY: CBM DATE: 3/2024

BRIDGE NO. 07680 DRAWING NO. 67304

SUMMARY OF QUANTITIES AND REVISIONS

[illegible]

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SURVEY CONTROL COORDINATES

Project Name: s061741
Date: 3/4/2022
Coordinate System: ARKANSAS STATE PLANE – SOUTH ZONE BASED ON GPS CONTROL, 300016 – 300016A PROJECTED TO GROUND.
Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	1885490.4331	1006944.0598	378.61	CTL	ARDOT STD. MON. STAMPED PN:1
2	1885082.1751	1007376.7761	380.15	CTL	ARDOT STD. MON. STAMPED PN:2
3	1884781.6853	1007707.7732	383.42	CTL	ARDOT STD. MON. STAMPED PN:3
4	1884536.8231	1008051.5111	369.93	CTL	ARDOT STD. MON. STAMPED PN:4
5	1884302.6856	1008227.8817	354.66	CTL	ARDOT STD. MON. STAMPED PN:5
6	1883813.2468	1008354.8321	326.26	CTL	ARDOT STD. MON. STAMPED PN:6
7	1883436.9811	1008381.2063	322.12	CTL	ARDOT STD. MON. STAMPED PN:7
100	1880786.2765	1009967.1835	295.75	GPS	ARDOT GPS #300016
101	1881330.7851	1011179.8905	268.61	GPS	ARDOT GPS #300016A
900	1884747.1918	1007748.4918	384.43	TBM	CHISLED SQUARE SW CORNER OF BRI
901	1882738.6409	1008665.4846	304.53	TBM	CHISLED SQUARE

*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).
ALL DISTANCES ARE GROUND.
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.
A PROJECT CAF OF 0.999912250133 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 s061741gi.CTL
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 – 0302–SOUTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 300016 – 300016A
CONVERGENCE ANGLE: 0°33’49.12”LEFT AT PN:4 LT:N 34°14’04.48” LG:W 93°00’25.43”
GRID AZIMUTH = ASTRONOMICAL AZIMUTH – CONVERGENCE ANGLE.

CL - HWY. 283

POINT TYPE	POINT NO.	STATION	NORTHING	EASTING
P.O.B.	8000	100+00.00	1885482.7081	1006978.8447
P.C.	8001	102+00.00	1885345.9257	1007124.7575
P.I.		105+31.47	1885119.2270	1007366.5887
C.C.			1889526.0214	1011043.2858
P.T.	8002	108+62.21	1884921.9288	1007632.9493
P.C.	8003	110+12.43	1884832.5119	1007753.6657
P.I.		112+53.70	1884688.9067	1007947.5386
C.C.			1883681.4887	1006901.0816
P.T.	8004	114+90.48	1884489.7166	1008083.6727
P.C.	8005	116+39.26	1884366.8782	1008167.6251
P.I.		119+04.99	1884147.4947	1008317.5602
C.C.			1883828.0597	1007379.2311
P.T.	8006	121+57.60	1883882.1973	1008332.6249
P.O.E.	8007	122+00.00	1883839.8669	1008335.0286

CL - RAMP 1

POINT TYPE	POINT NO.	STATION	NORTHING	EASTING
P.O.B.	8008	200+00.00	1884331.8900	1007916.7098
P.O.E.	8009	202+26.96	1884464.3259	1008101.0257

CL - RAMP 2

POINT TYPE	POINT NO.	STATION	NORTHING	EASTING
P.O.B.	8004	202+26.96	1884489.7166	1008083.6727
P.C.	8023	20263.81	1884517.6783	1008107.6809
P.I.		20390.68	1884613.9321	1008190.3257
C.C.			1885494.8293	1006969.6230
P.T.	8024	20516.94	1884722.6991	1008255.6303
P.O.E.	8025	20906.84	1885056.9746	1008456.3323

CL - RAMP 3

POINT TYPE	POINT NO.	STATION	NORTHING	EASTING
P.O.B.	8015	202+78.65	1884915.2901	1007641.9117
P.C.	8016	202+91.14	1884923.0610	1007651.6909
P.I.		203+93.14	1884986.5187	1007731.5483
C.C.			1880437.3021	1011216.2428
P.T.	8017	204+95.12	1885047.0938	1007813.6138
P.O.E.	8018	205+08.88	1885055.2649	1007824.6838

CL - RAMP 4

POINT TYPE	POINT NO.	STATION	NORTHING	EASTING
P.O.B.	8019	200+00.00	1884692.5317	1007484.9441
P.O.E.	8020	202+73.71	1884927.1216	1007625.9499

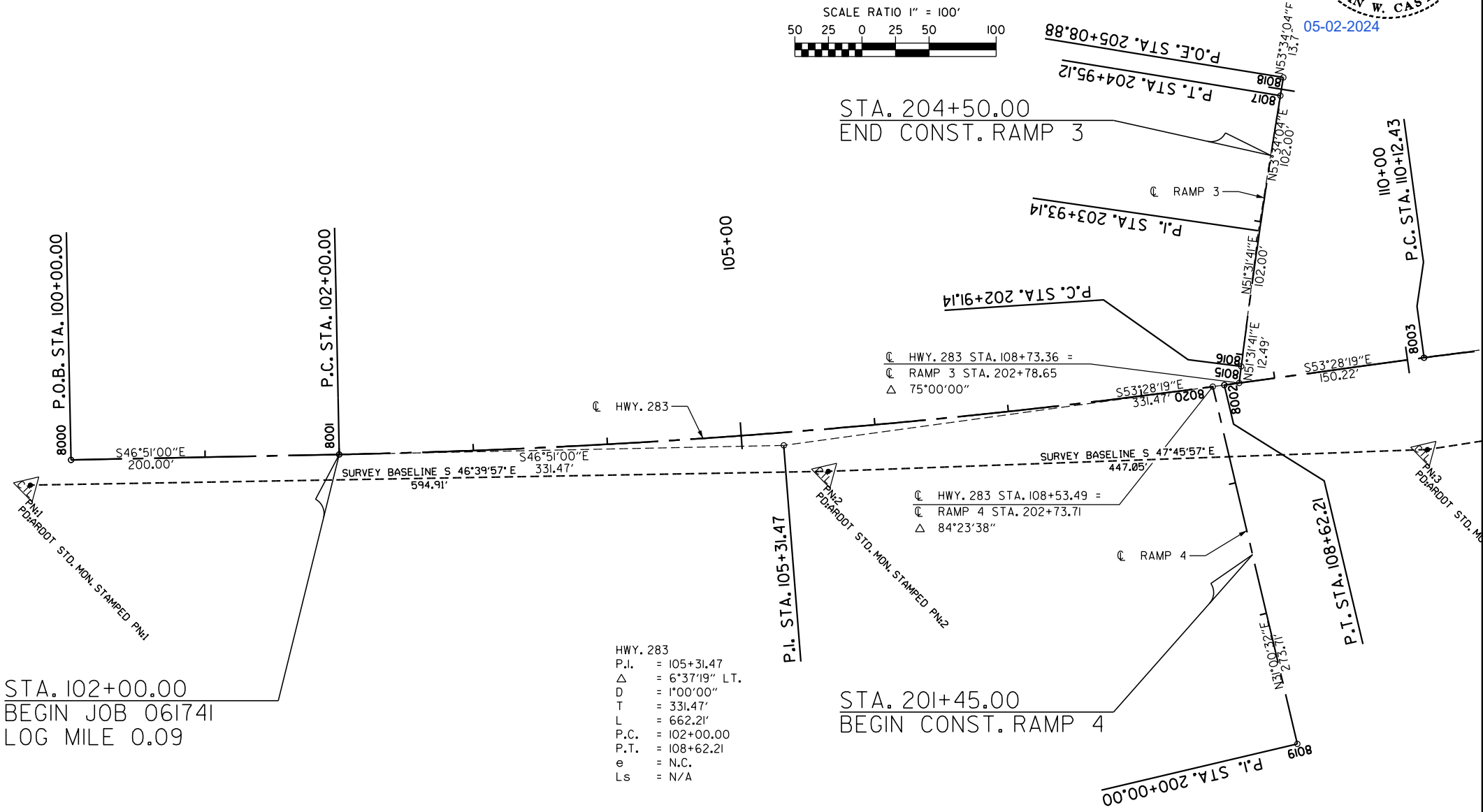
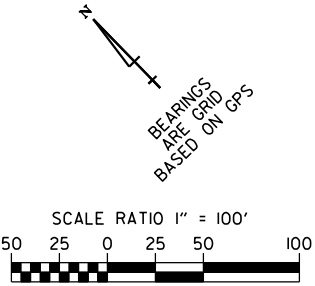
CL - I-30

POINT TYPE	POINT NO.	STATION	NORTHING	EASTING
P.O.B.	8021	1000+00.00	1884153.2142	1007396.4504
P.O.E.	8022	1015+00.00	1885287.0087	1008378.5451

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	68	136
SURVEY CONTROL DETAILS						



DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	69	136
SURVEY CONTROL DETAILS						

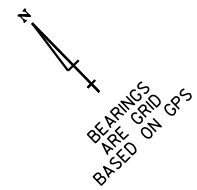


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BEGIN JOB 061741
LOG MILE 0.09

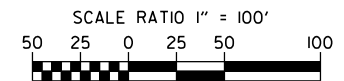
HWY. 283
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Δ = 6°37'19" LT.
D = 1°00'00"
T = 331.47'
L = 662.21'
P.C. = 102+00.00
P.T. = 108+62.21
e = N.C.
Ls = N/A

STA. 201+45.00
BEGIN CONST. RAMP 4

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	70	136
		SURVEY CONTROL DETAILS				



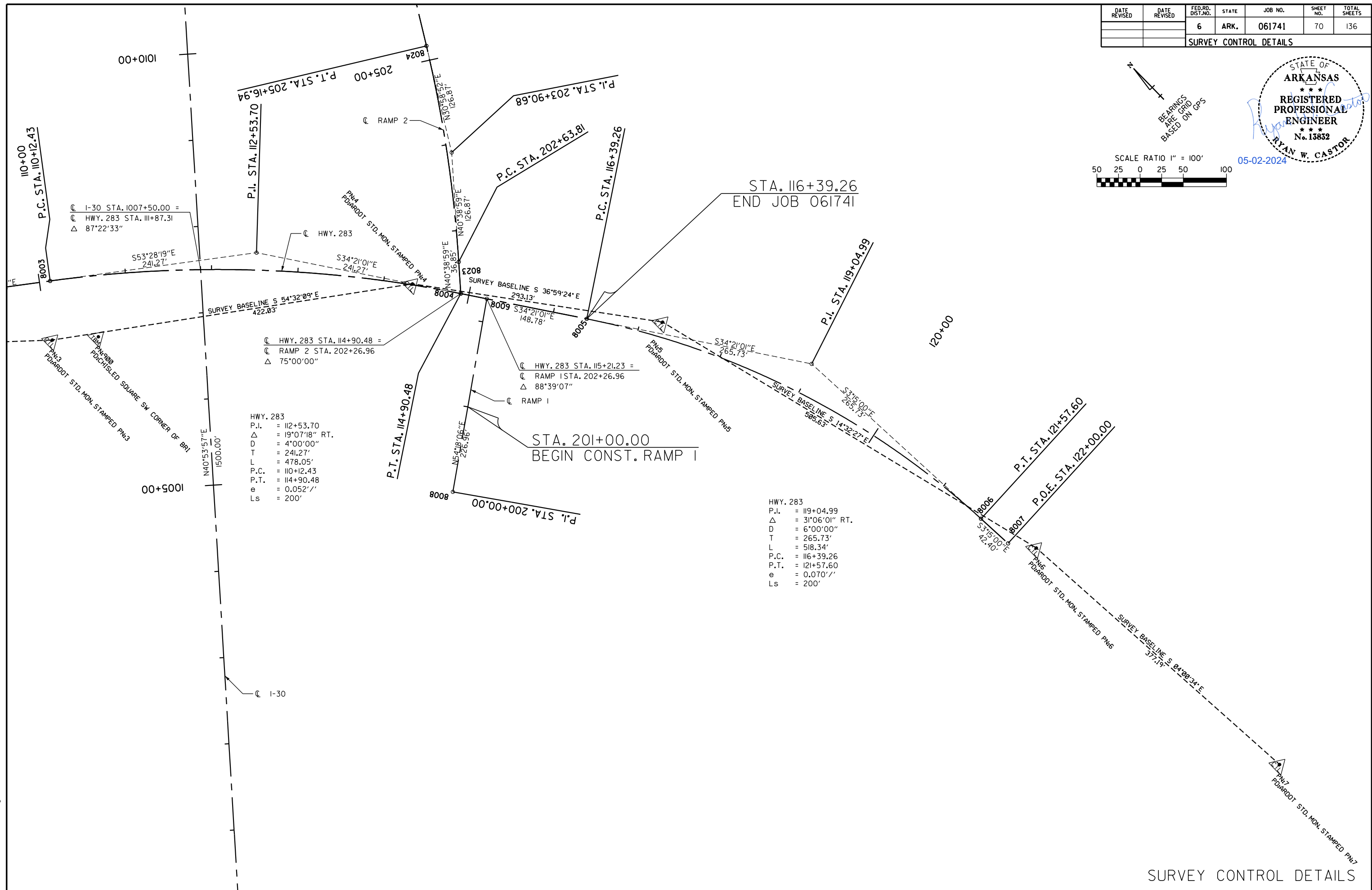
05-02-2024



STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER

No. 13832
RYAN W. CASTOR



SURVEY CONTROL DETAILS

5/2/2024
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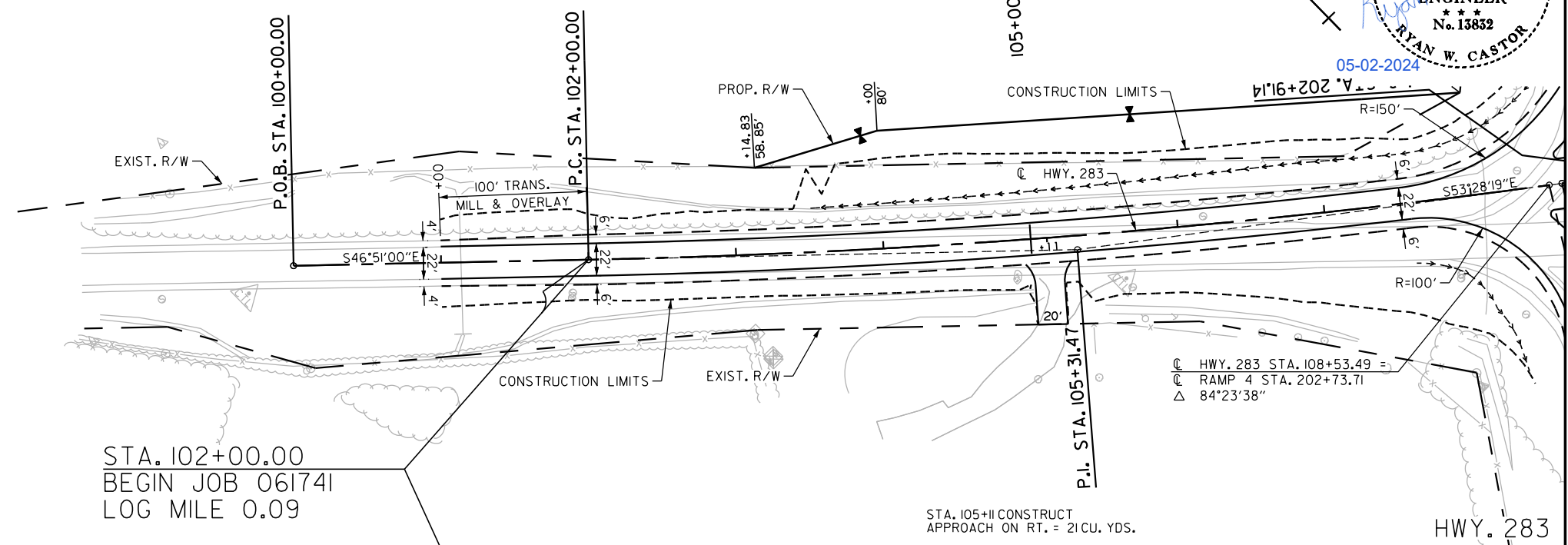
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		6	ARK.	061741	72	136
PLAN & PROFILE STA. 100+00 - 108+00						

REMOVAL & DISPOSAL OF FENCE			
STA.	STA.	SIDE	LIN. FT.
103+14.83	108+01.18	LT.	490

FENCE			
STA.	STA.	SIDE	LIN. FT.
103+14.83	108+01.18	LT.	490

HWY. 283
P.I. = 105+31.47
Δ = 6°37'19" LT.
D = 1°00'00"
T = 331.47'
L = 662.21'
P.C. = 102+00.00
P.T. = 108+62.21
e = N.C.
Ls = N/A

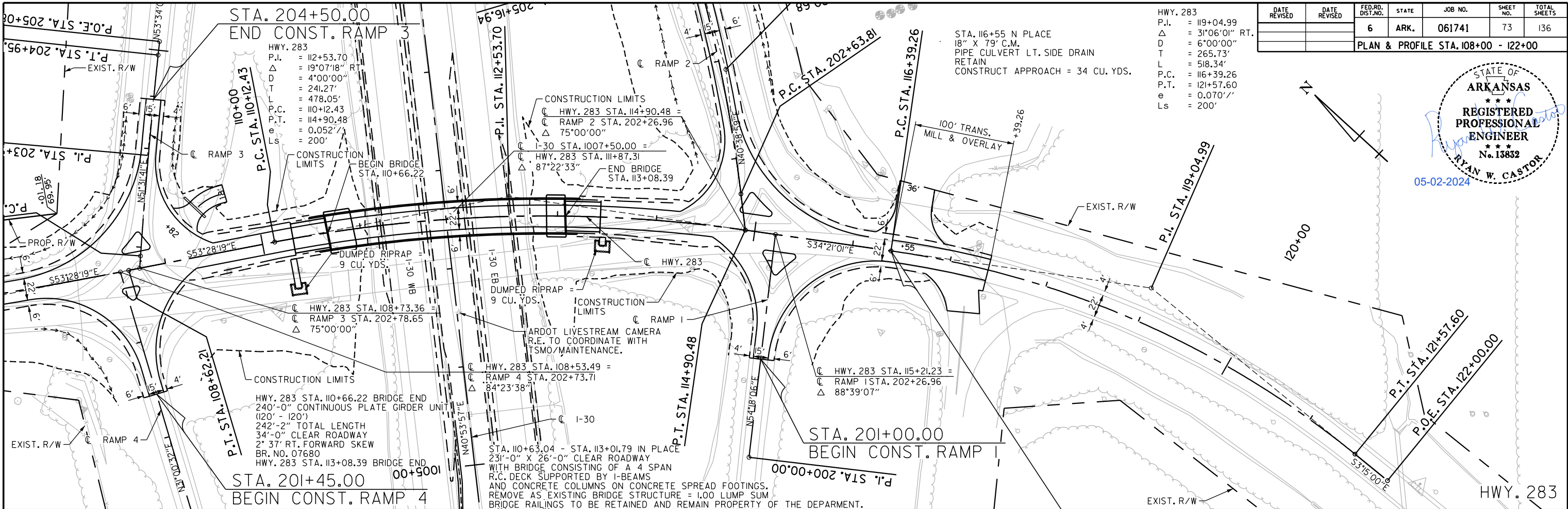
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36" X 94' R.C. PIPE CULVERT
WITH HDWLS. LT. & RT.
RETAIN

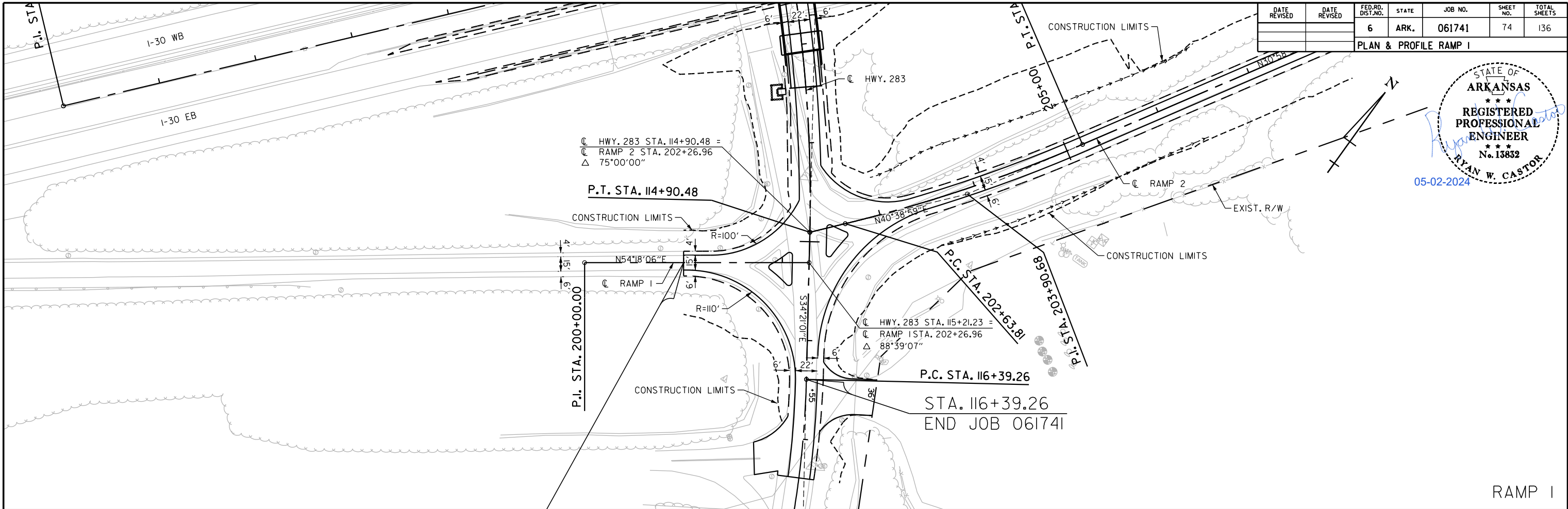


STA. 102+00.00
BEGIN JOB 061741
LOG MILE 0.09



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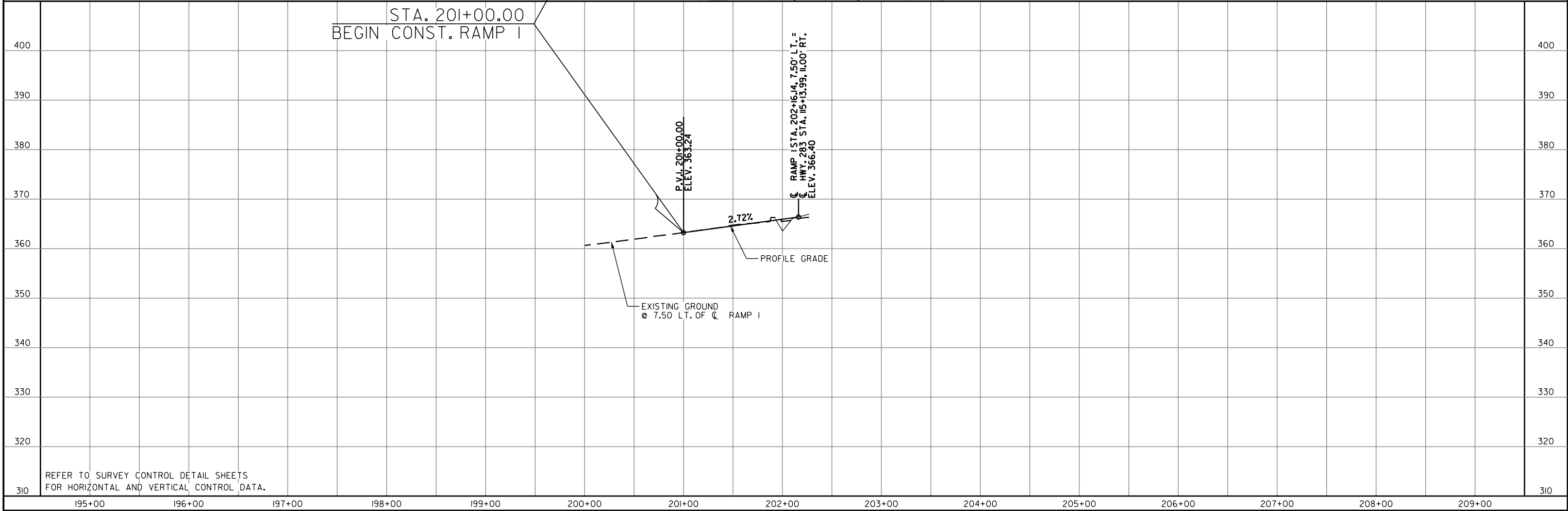


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	74	136
PLAN & PROFILE RAMP 1						

STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No. 13832
RYAN W. CASTOR
05-02-2024

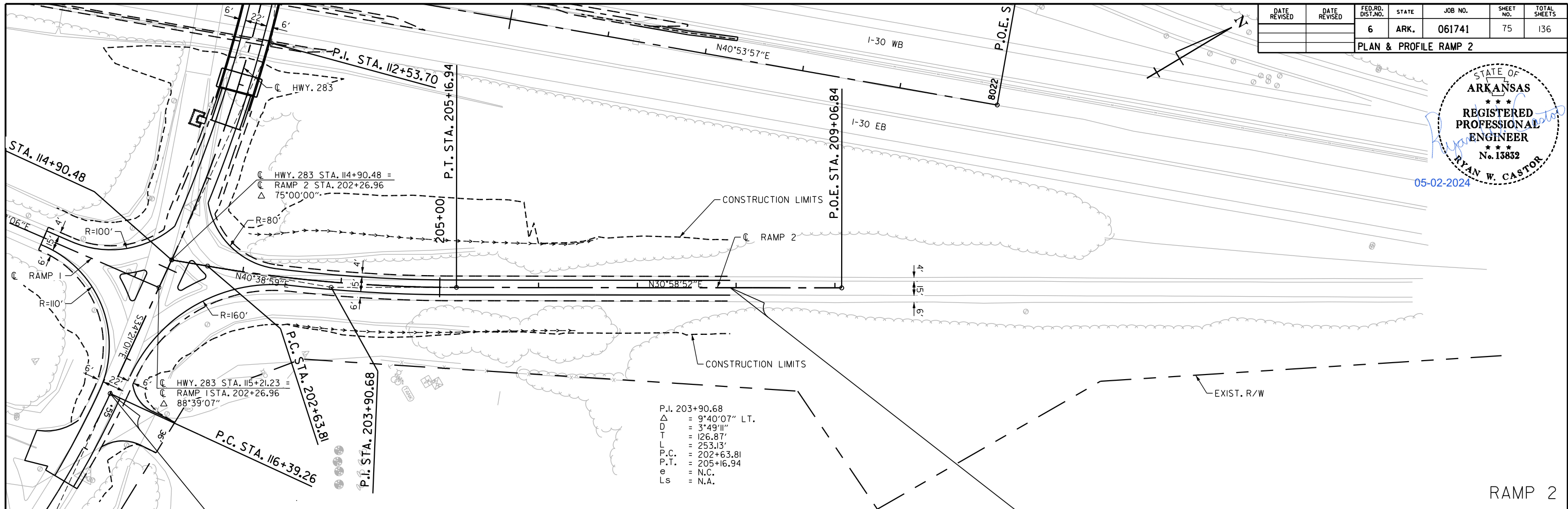
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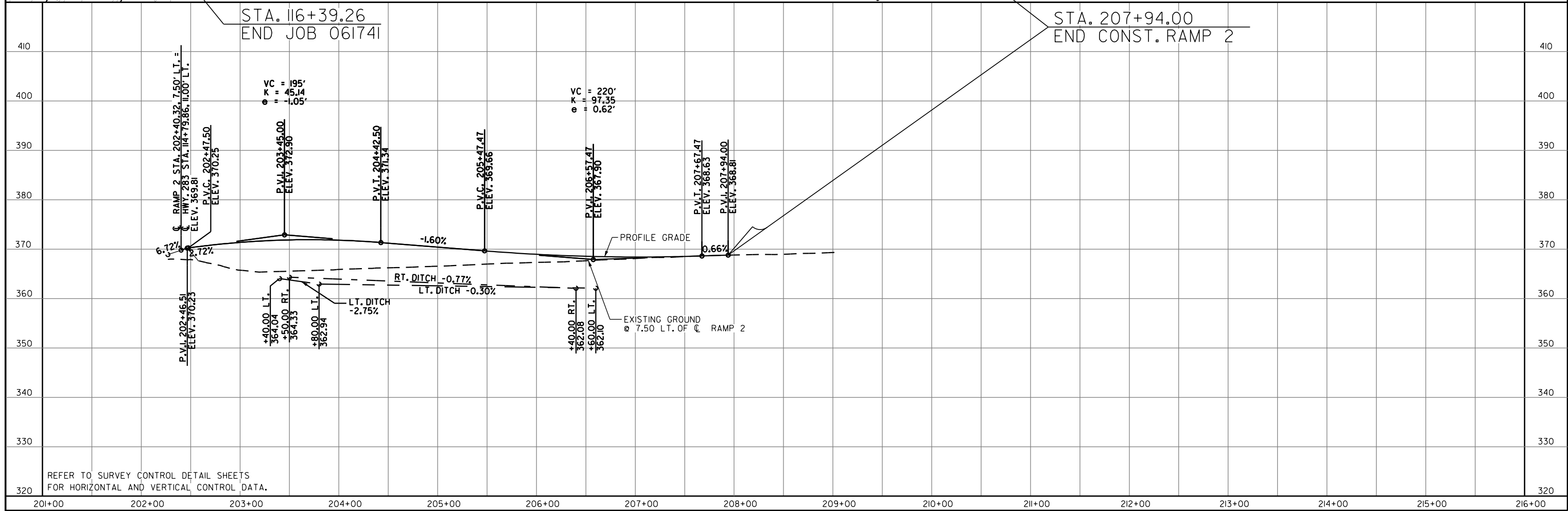
REFER TO SURVEY CONTROL DETAIL SHEETS
FOR HORIZONTAL AND VERTICAL CONTROL DATA.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	75	136
PLAN & PROFILE RAMP 2						



P.I. 203+90.68
Δ = 9°40'07" LT.
D = 3°49'11"
T = 126.87'
P.C. = 253.13'
P.T. = 202+63.81
e = N.C.
Ls = N.A.

RAMP 2

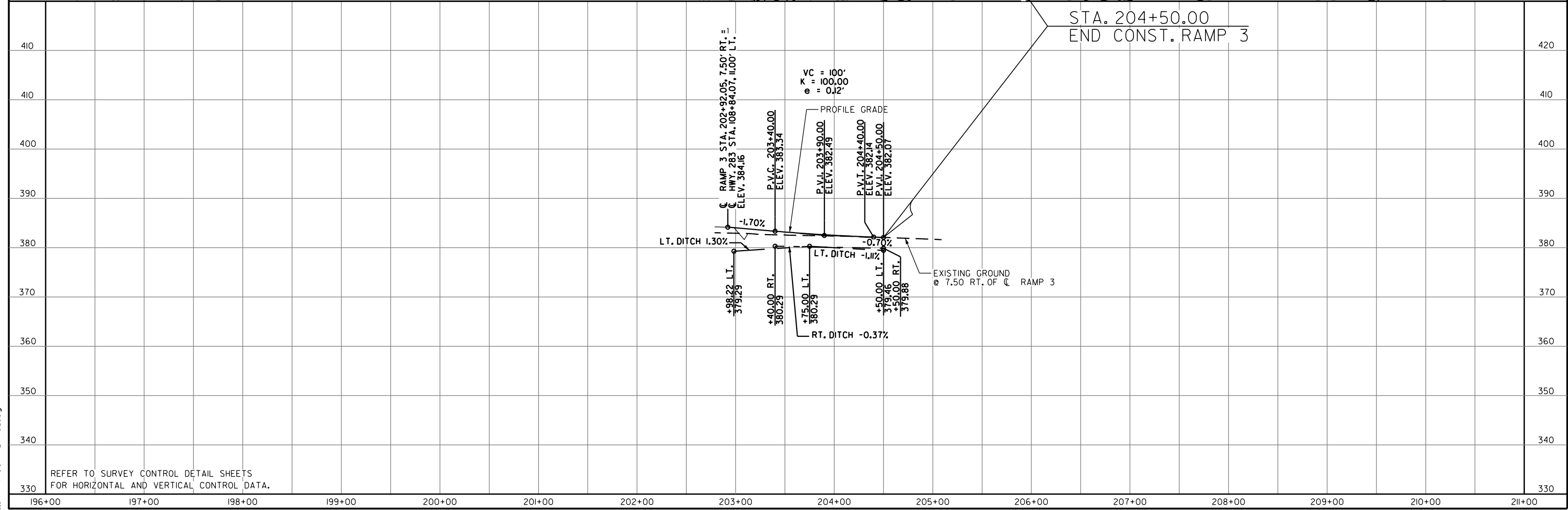
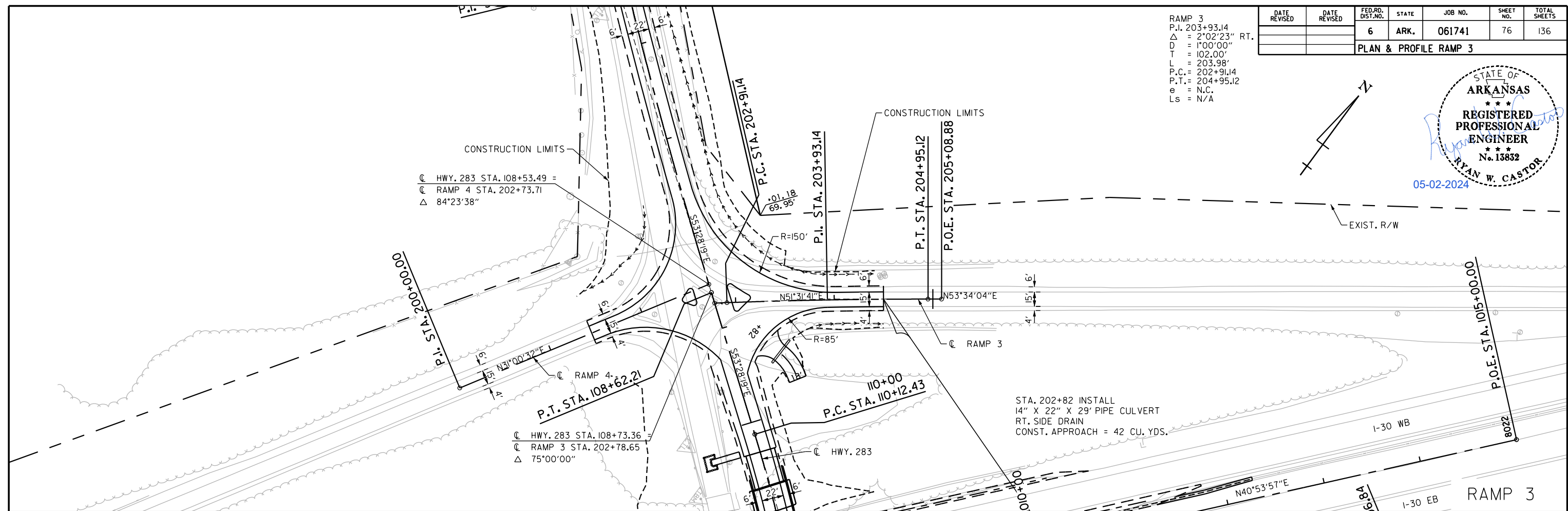


REFER TO SURVEY CONTROL DETAIL SHEETS
FOR HORIZONTAL AND VERTICAL CONTROL DATA.

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RAMP 3
P.I. 203+93.14
 $\Delta = 2^{\circ}02'23''$ RT.
D = 1^{\circ}00'00''
T = 102.00'
L = 203.98'
P.C. = 202+91.14
P.T. = 204+95.12
e = N.C.
Ls = N/A

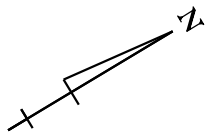
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	76	136
PLAN & PROFILE RAMP 3						



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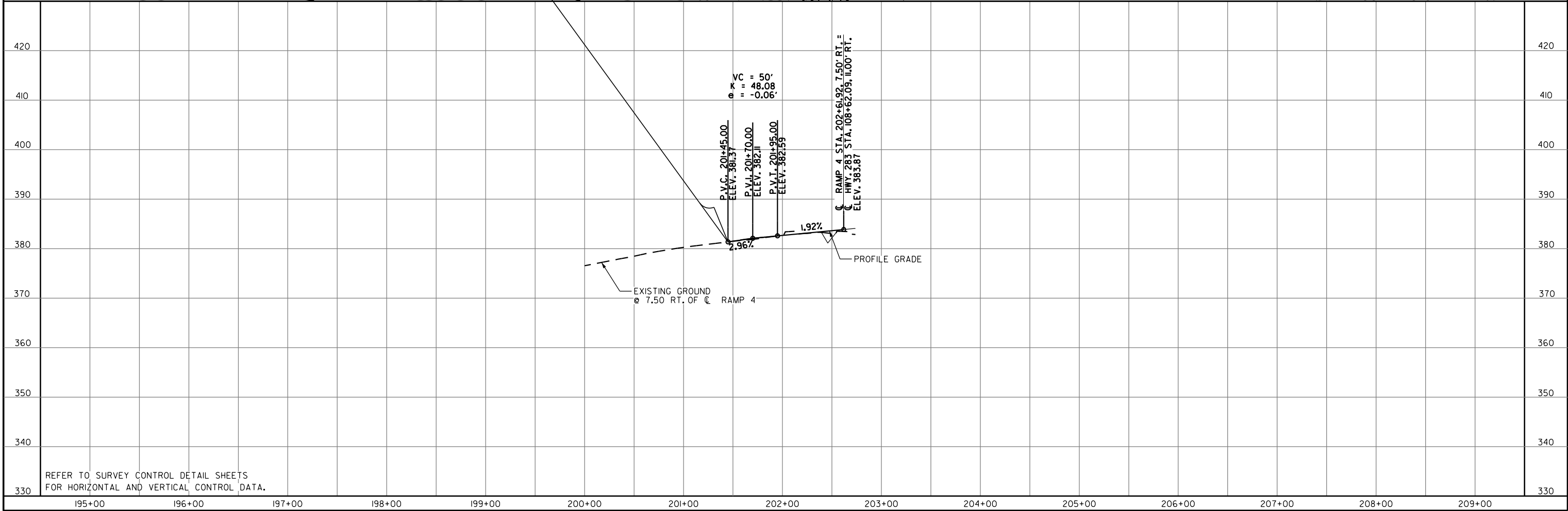
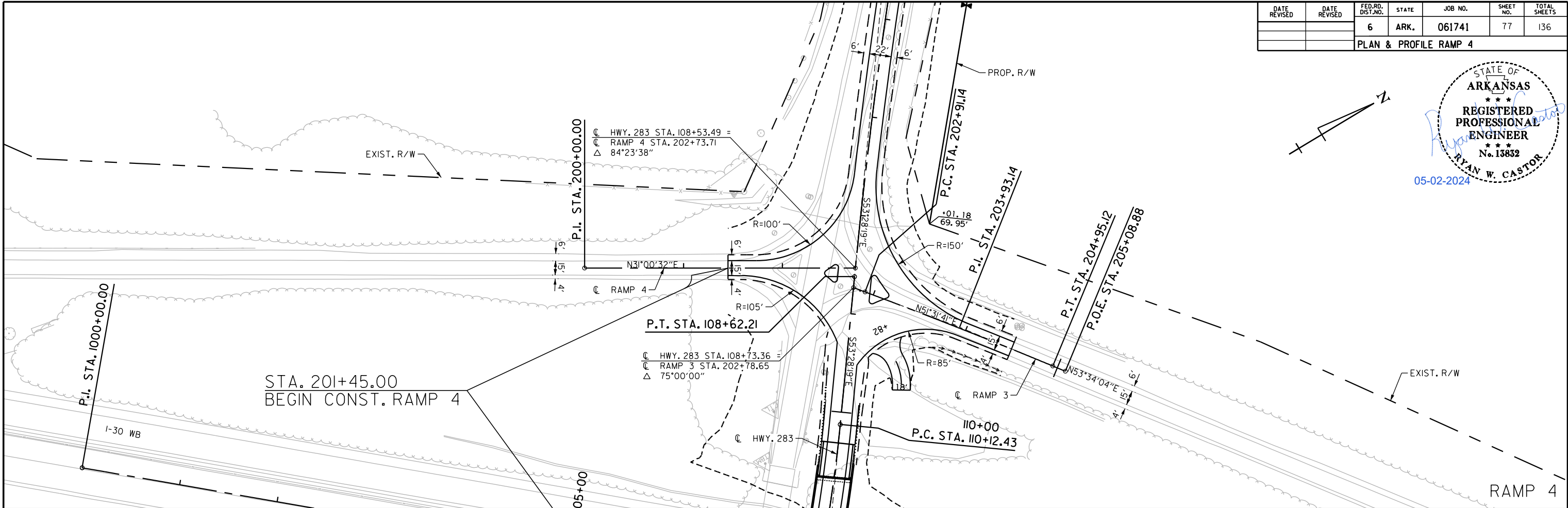
REFER TO SURVEY CONTROL DETAIL SHEETS
FOR HORIZONTAL AND VERTICAL CONTROL DATA.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	77	136
PLAN & PROFILE RAMP 4						



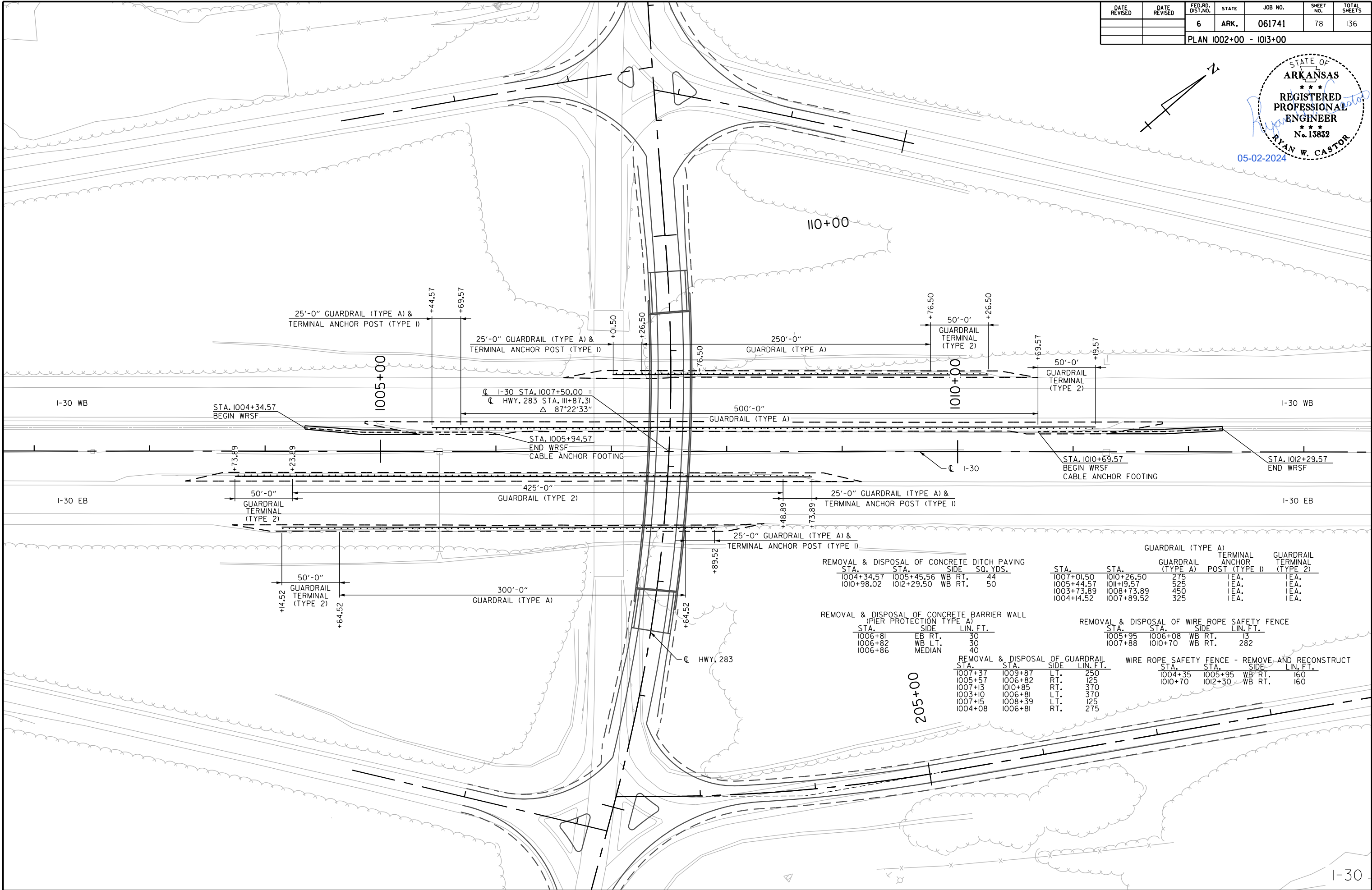
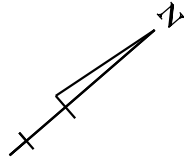
STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No. 13832
RYAN W. CASTOR
05-02-2024



REFER TO SURVEY CONTROL DETAIL SHEETS
FOR HORIZONTAL AND VERTICAL CONTROL DATA.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	78	136
PLAN 1002+00 - 1013+00						



REMOVAL & DISPOSAL OF CONCRETE DITCH PAVING			
STA.	STA.	SIDE	SQ. YDS.
1004+34.57	1005+45.56	WB RT.	44
1010+98.02	1012+29.50	WB RT.	50

REMOVAL & DISPOSAL OF CONCRETE BARRIER WALL (PIER PROTECTION TYPE A)			
STA.	STA.	SIDE	LIN. FT.
1006+81	1006+82	EB RT.	30
1006+82	1006+83	WB LT.	30
1006+86	1006+87	MEDIAN	40

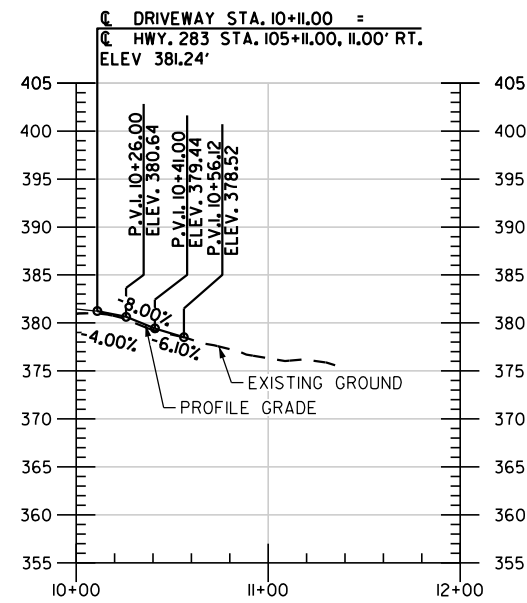
REMOVAL & DISPOSAL OF GUARDRAIL			
STA.	STA.	SIDE	LIN. FT.
1007+37	1009+87	LT.	250
1005+57	1006+82	RT.	125
1007+13	1010+85	RT.	370
1003+10	1006+81	LT.	370
1007+15	1008+39	LT.	125
1004+08	1006+81	RT.	275

REMOVAL & DISPOSAL OF WIRE ROPE SAFETY FENCE			
STA.	STA.	SIDE	LIN. FT.
1005+95	1006+08	WB RT.	13
1007+88	1010+70	WB RT.	282

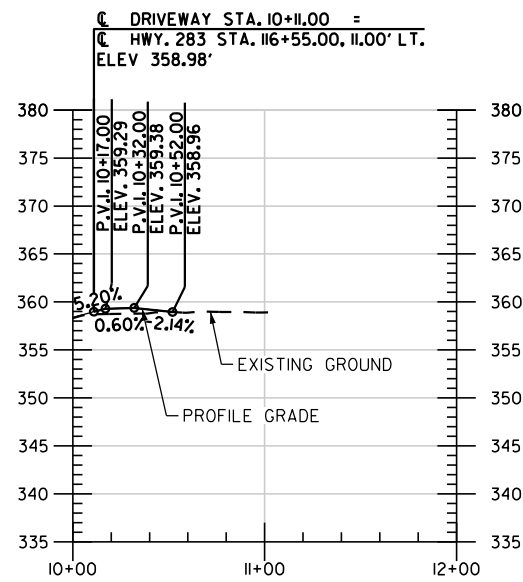
WIRE ROPE SAFETY FENCE - REMOVE AND RECONSTRUCT			
STA.	STA.	SIDE	LIN. FT.
1004+35	1005+95	WB RT.	160
1010+70	1012+30	WB RT.	160

GUARDRAIL (TYPE A) TERMINAL ANCHOR POST (TYPE I) GUARDRAIL TERMINAL (TYPE 2)			
STA.	STA.	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)
1007+01.50	1010+26.50	275	1EA.
1005+44.57	1011+19.57	525	1EA.
1003+73.89	1008+73.89	450	1EA.
1004+14.52	1007+89.52	325	1EA.

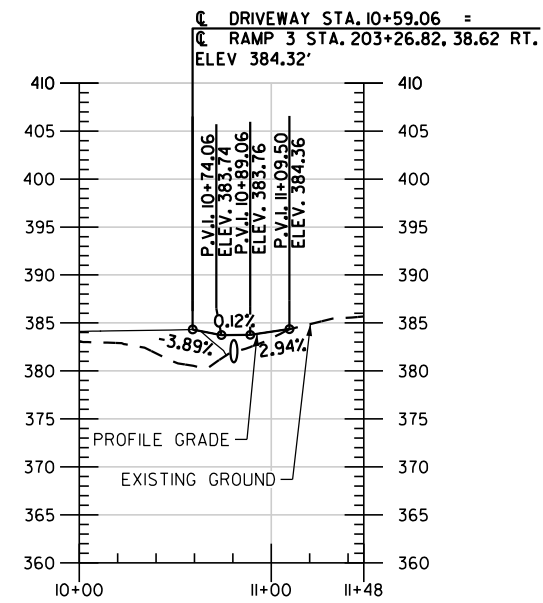
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	79	136
DRIVEWAY PROFILES						



HWY. 283 - STA. 105+11



HWY. 283 - STA. 116+55



RAMP 3 - STA. 202+82

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	80	136
		07680 -	LAYOUT		- 67305	

NOTES:
For R/W data, see Roadway Plans.

For Guardrail details, see Roadway Plans.

For additional grading details near bridge ends, see Roadway Plans.

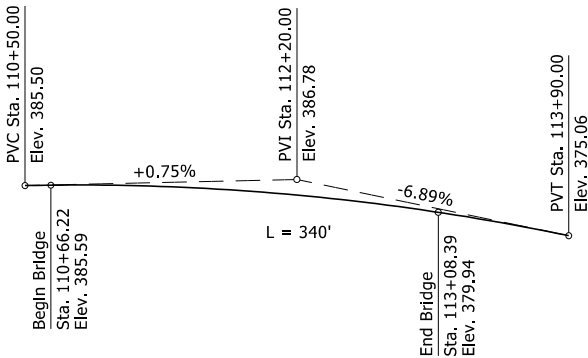
Stations shown are along CL Construction. Elevations shown are actual top of deck elevations at CL Bridge with exception to elevations shown in "VERTICAL CURVE DATA" that are theoretical elevations along CL Construction. See "SUPERELEVATION TRANSITION SKETCH" for details.

Place Type F Approach Gutters and Type F Approach Slabs ("W" = 30'-0") at both ends of bridge. For details, see Std. Dwg. Nos. 55030F and 55040F1, respectively.

CL Bridge is on a 04°00'00" curve right. CL Girders and the longitudinal lines of both the bridge and approach gutters and slabs shall be constructed on curves concentric with CL Bridge and CL Construction. All bents shall be constructed on a 02°37'00" right forward skew to radial lines at CL Bridge and CL Construction. Skew is measured at CL Bent 2 and at CL Joint for Bents 1 and 3.

The Contractor shall excavate the existing embankment at Bent 1 to Elev. 378.00 at top of berm and Elev. 358.63 at bottom of roadway ditch and at Bent 3 to Elev. 371.50 at top of berm and Elev. 359.42 at bottom of roadway ditch, approximately 1666 cubic yards of excavation.

- ① CL Construction Sta. 111+87.31 = CL I-30 Median Sta. 1007+50.00
- ② Bent skew measured between CL Bent and local radial line to CL Construction at Sta 111+87.31
- ③ Top of Crash Wall Elevation = 367.50
- ④ Ashlar Stone Pattern. See Special Provision "ARCHITECTURAL FINISH".
- ⑤ For additional details of Concrete Riprap, see Std. Dwg. No. 55002.



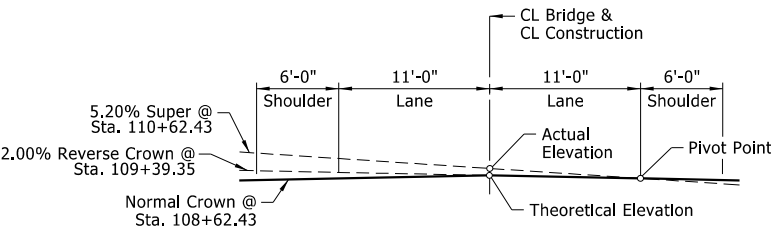
Vertical Curve is along CL Construction

VERTICAL CURVE DATA

No Scale

PI Sta. 112+53.70
Delta = 19°07'18" RT.
D = 04°00'00"
T = 241.27'
L = 478.05'

HORIZONTAL CURVE DATA



SUPERELEVATION TRANSITION SKETCH

Looking Ahead Station
No Scale

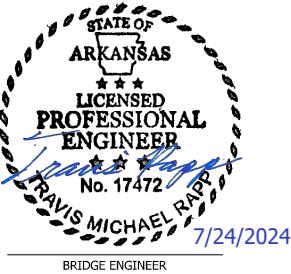
SHEET 1 OF 5
LAYOUT OF BRIDGE
HIGHWAY 283 OVER INTERSTATE 30
I-30 STR. & APPRS. (HWY. 283) (S)
HOT SPRING COUNTY
ROUTE 283 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

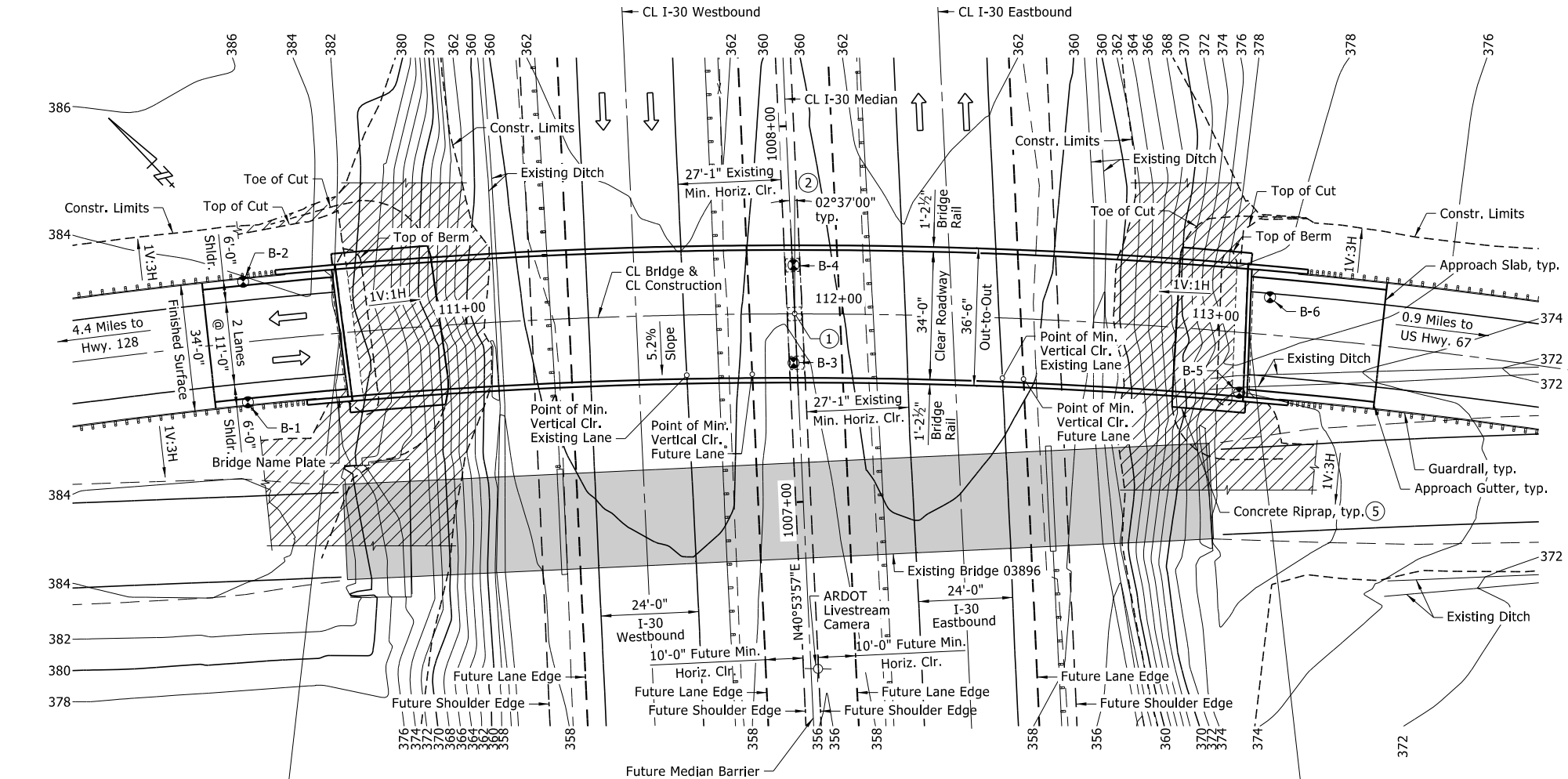
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CHECKED BY: HRA DATE: 3/2024 SCALE: AS SHOWN
DESIGNED BY: CBM DATE: 2/2024

BRIDGE NO. 07680

DRAWING NO. 67305



BRIDGE ENGINEER

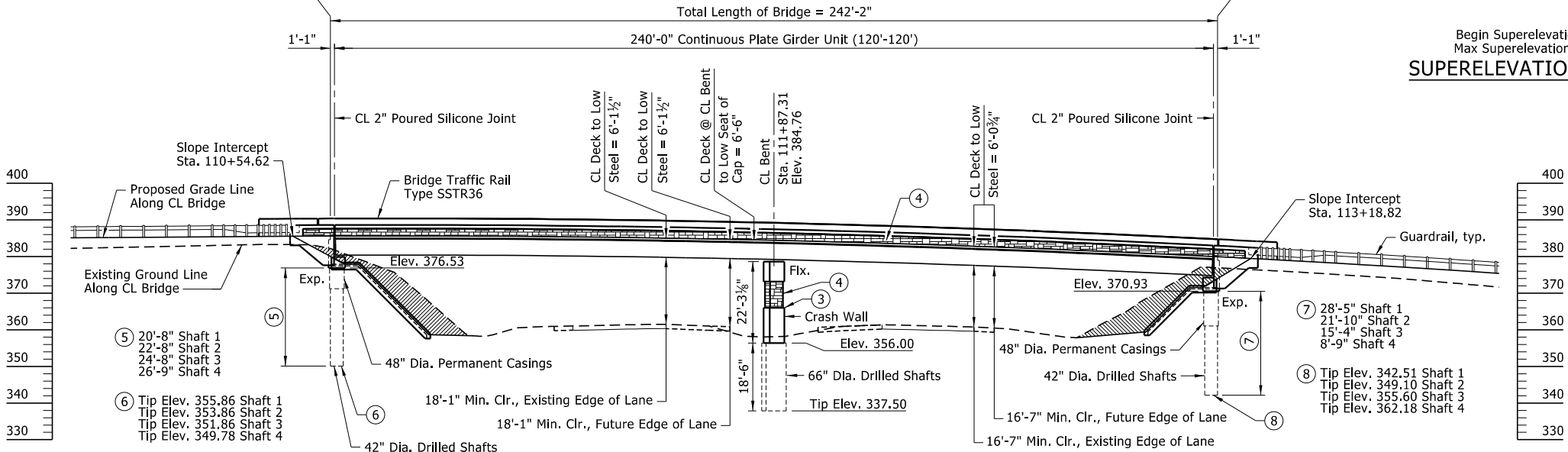


PLAN

Scale: 1" = 20'-0"

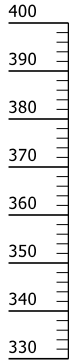
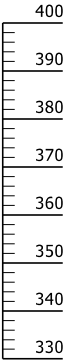
END BRIDGE
STA. 113+08.39
ELEV. 380.29

BEGIN BRIDGE
STA. 110+66.22
ELEV. 385.94



ELEVATION

Scale: 1" = 20'-0"



110+00

111+00

112+00

113+00

114+00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	81	136
		07680 -		LAYOUT	- 67306	

GENERAL NOTES:

BENCHMARK: Vertical Control Data are shown on the Survey Control Detail Sheets.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Ninth Edition (2020).

FUTURE WEARING SURFACE DESIGN LOADING: 24 psf

LIVE LOADING: HL-93

SEISMIC ZONE: 1 S_{D1}: 0.112 SITE CLASS: C

SEISMIC OPERATIONAL CLASSIFICATION: Essential

MATERIALS AND STRENGTHS:
Class S(AE) Concrete (superstructure) f'c = 4,000 psi
Class S Concrete (substructure) f'c = 3,500 psi
Reinforcing Steel (AASHTO M 31 or M 322, Type A) fy = 60,000 psi
Structural Steel (ASTM A709, Gr. 50) Fy = 50,000 psi
Structural Steel (ASTM A709, Gr. 36) Fy = 36,000 psi

BORING LOGS: Boring logs may be obtained from the Construction Contract Development Section of the Program Management Division.

STEEL PILING: All piling shall be HP12x53 (Grade 50) and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 95 tons per pile and into the material designated as Sandstone with Occasional Shale Layers on the boring legend at Bent 1 and into the materials designated as Sandstone and Shale on the boring legend at Bent 3. Minimum penetration shall be 10' below bottom of wing cap for all piling at Bents 1 and 3. Piling in wing caps shall be driven after embankment to bottom of wing is in place. Lengths shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with Section 805. Actual pile lengths are to be determined in the field. The Contractor shall use QPL-approved steel H-Pile driving points on all piles.

PREBORING: Preboring is required for all piles at Bents 1 and 3. The depth of preboring shall be to a depth sufficient to provide the specified minimum penetration and to a minimum of 3' into the materials designated as Sandstone with Occasional Shale Layers (at Bent 1) or Sandstone and Shale (at Bent 3) on the boring legend, whichever is lower. The actual size and depth of preboring shall be determined in the field by the Engineer. The Contractor shall be responsible for keeping prebored holes free of debris prior to driving piles and backfilling which may require the use of temporary casings or other approved methods. After driving is completed, the prebored hole shall be backfilled with Class S Concrete to the top of the rock and the remaining length backfilled in accordance with Subsection 805.08(a). Any related cost for backfilling and temporary casing will not be paid for directly, but shall be considered subsidiary to the item "PREBORING".

DRILLED SHAFTS: Drilled shafts at Bents 1, 2, and 3 shall be constructed in accordance with Special Provision "DRILLED SHAFT FOUNDATIONS". Drilled shafts shall be socketed into material designated as Sandstone on the boring legend and to the minimum rock penetrations and tip elevations shown in the plans. No adjustment to plan tip elevations shall be made without prior approval from the Engineer. Temporary casing may be required.

NONDESTRUCTIVE TESTING: Crosshole Sonic Logging (CSL) shall be performed on each drilled shaft. Testing shall be performed in accordance with Special Provision "NONDESTRUCTIVE TESTING OF DRILLED SHAFTS".

PAINTING: All Grade 50 structural steel, except galvanized members and surfaces in contact with concrete, shall be painted as specified in Subsection 807.75. The color of paint shall be Dark Brown and shall match Federal Std. 595B, Color Chip No. 20108.

TEXTURED COATING FINISH: Class 3 Textured Coating Finish shall be applied to bridge surfaces as specified in Special Provision "TEXTURED COATING FINISH" and in accordance with Subsection 802.19(b)(3). Textured Coating Finish shall not be applied on surfaces where Class 2 Protective Surface Treatment is applied.

BRIDGE DECK: The concrete bridge deck shall be given a tine finish as specified for final finishing in Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish.

PROTECTIVE SURFACE TREATMENT: Class 2 Protective Surface Treatment shall be applied to the roadway surface and to the roadway face and top of the concrete bridge traffic rails in accordance with Section 803.

DETAIL DRAWINGS:	DRAWING NO(S).
End Bent 1	67310 - 67314
Intermediate Bent 2	67315 - 67317
End Bent 3	67318 - 67322
Elastomeric Bearings	67323
240'-0" Continuous Plate Girder Unit	67324 - 67328
Standard General Notes for Steel Bridge Structures	55006
Standard Details for Steel Bridge Structures	55007
Standard Details for Poured Silicone Joints	55008
Standard Details for Type F Approach Gutters	55030F
Standard Details for Type F Approach Slab	55040F1
Standard Details for Bridge Traffic Rail Type SSTR36	55070

EXISTING BRIDGE: Existing Bridge No. 03896 (Log Mile 0.25) is 31.5' wide (26.0' clear roadway) and 231.0' long and consists of steel I-beam spans (4 spans total) supported by concrete columns on concrete spread footings. The existing bridge is located approximately 50' southwest from the proposed new bridge. Plans of the existing structure, if available, may be obtained upon request to the Construction Contract Development Section of the Program Management Division.

REMOVAL AND SALVAGE: After the new bridge is open to traffic, the Contractor shall remove existing Bridge No. 03896 in accordance with Section 205. All material from the existing bridge shall become the property of the Contractor except the following which shall remain the property of the State:

Aluminum Bridge Rail and Associated Hardware

The Contractor shall notify the Department prior to removal to determine the specific pieces deemed salvageable. The Contractor shall provide temporary storage and on site loading onto ArDOT equipment for removal of salvage items from the site. This work shall be considered incidental to the item "REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO.____)".

MAINTENANCE OF TRAFFIC: See Roadway Plans.

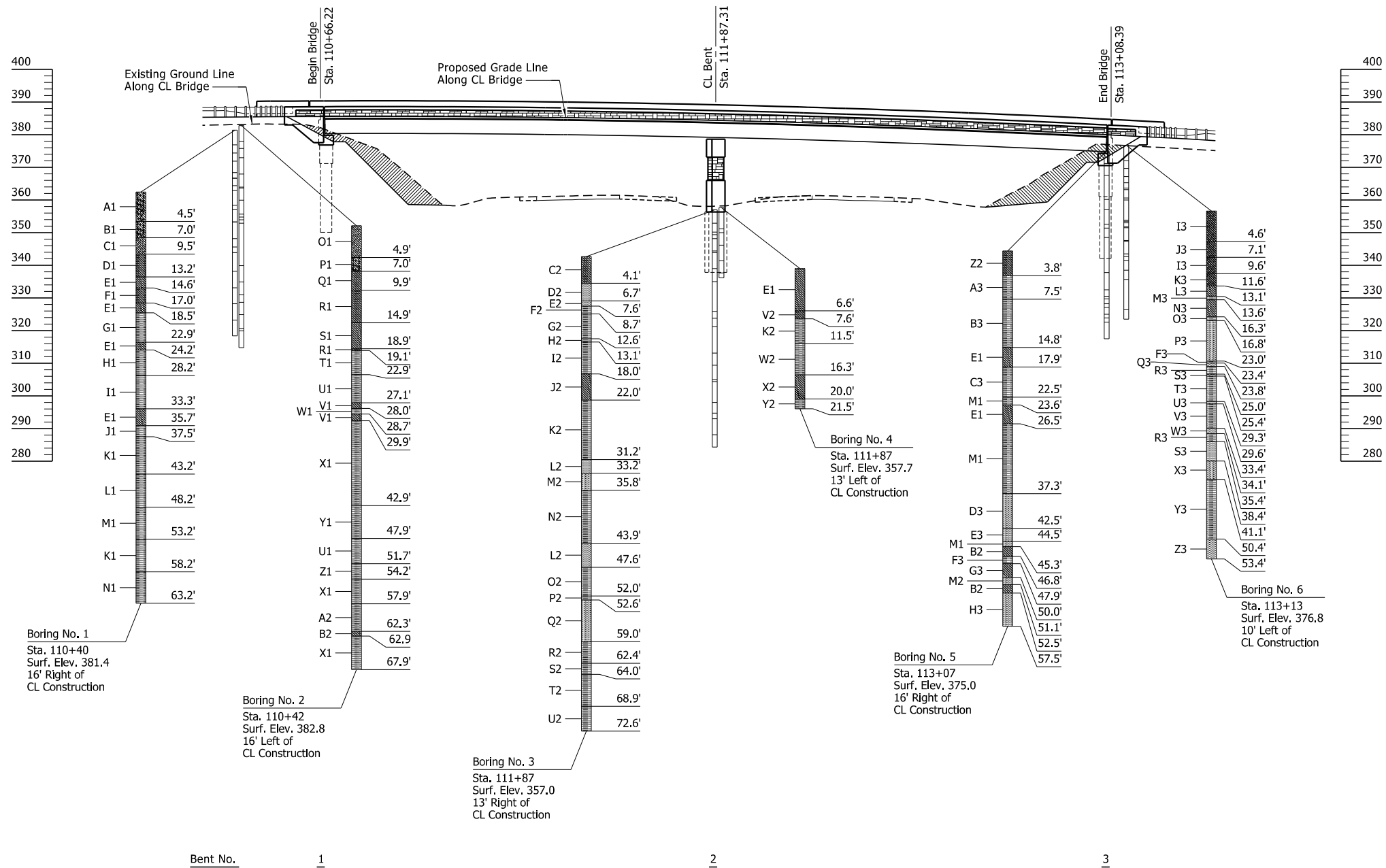


SHEET 2 OF 5
LAYOUT OF BRIDGE
HIGHWAY 283 OVER INTERSTATE 30
I-30 STR. & APPRS. (HWY. 283) (S)
HOT SPRING COUNTY
ROUTE 283 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_I2
CHECKED BY: HRA DATE: 3/2024 SCALE: NONE
DESIGNED BY: CBM DATE: 2/2024

BRIDGE NO. 07680 DRAWING NO. 67306

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	82	136
07680 -				LAYOUT	- 67307	



NOTE:
For "BORING LEGEND", see Dwg. No. 67308.

ELEVATION OF SOIL BORINGS



SHEET 3 OF 5
LAYOUT OF BRIDGE
HIGHWAY 283 OVER INTERSTATE 30
I-30 STR. & APPRS. (HWY. 283) (S)
HOT SPRING COUNTY
ROUTE 283 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_I3
CHECKED BY: HRA DATE: 3/2024 SCALE: 1" = 20'-0"
DESIGNED BY: CBM DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67307

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	83	136
		07680 - LAYOUT			- 67308	

BORING LEGEND

A1 - Moist, Loose, Reddish Brown Clayey Sand with Rock Fragments
B1 - Moist, Medium Dense, Reddish Brown Clayey Sand with Rock Fragments
C1 - Moist, Very Dense, Clayey Sand with Trace Rock Fragments
D1 - SANDSTONE - Highly Weathered, Poorly Cemented with Cemented Layers, Brown
E1 - SHALE - Highly Weathered, Soft, Gray
F1 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Highly Weathered, Poorly Cemented, Gray
G1 - SANDSTONE - Weathered, Cemented, Frequent Fractures, Gray
H1 - SANDSTONE - Slightly Weathered, Cemented with Occasional Poorly Cemented Layers, Frequent Fractures, Gray
I1 - SANDSTONE - Slightly Weathered, Cemented to Well Cemented, Frequent Open Fractures, Frequent Voids
J1 - SANDSTONE - Weathered, Cemented, Gray
K1 - SANDSTONE - Slightly Weathered, Well Cemented, Frequent Open Fractures, Occasional Quartz Veins, Gray
L1 - SANDSTONE - Slightly Weathered, Well Cemented with Occasional Poorly Cemented Layers, Occasional Kaolin Layers, Frequent Fractures, Gray
M1 - SANDSTONE - Slightly Weathered, Well Cemented, Frequent Fractures, Gray
N1 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Slightly Weathered, Well Cemented, Frequent Fractures, Shale exhibits slickensides, Gray
O1 - Dry, Medium Dense, Brown Clayey Sand
P1 - Moist, Dense, Reddish Brown Clayey Sand with Rock Fragments
Q1 - SANDSTONE WITH CLAY LAYERS - Highly Weathered, Light Reddish Brown
R1 - SANDSTONE - Highly Weathered
S1 - SHALE - Highly Weathered, Medium Hard, Gray
T1 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Slightly Weathered with Occasional Highly Weathered Layers, Cemented with Poorly Cemented Layers, Frequent Fractures, Light Gray
U1 - SANDSTONE - Slightly Weathered, Cemented, Frequent Fractures, Light Gray
V1 - SHALE WITH OCCASIONAL SANDSTONE LAYERS - Highly Weathered, Soft, Gray
W1 - SANDSTONE - Slightly Weathered, Cemented, Light Gray
X1 - SANDSTONE - Slightly Weathered, Well Cemented, Frequent Fractures, Light Gray
Y1 - SANDSTONE - Slightly Weathered, Well Cemented, Occasional Fractures, Light Gray
Z1 - SANDSTONE - Slightly Weathered, Poorly Cemented, Frequent Fractures, Light Gray
A2 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Slightly Weathered (Shale-Highly Weathered), Well Cemented, Occasional Fractures, Light Gray
B2 - SHALE - Highly Weathered, Soft, Dark Gray
C2 - SANDSTONE - Highly Weathered, Poorly Cemented, Brown
D2 - SHALE - Highly Weathered, Medium Hard, Dark Gray
E2 - (No Recovery)
F2 - SANDSTONE - Weathered, Cemented, Brown and Gray
G2 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Slightly Weathered, Occasional Fractures, Cemented to Well Cemented
H2 - SANDSTONE - Weathered, Poorly Cemented, Brown
I2 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Slightly Weathered, Cemented to Well Cemented, Occasional Fractures, Gray
J2 - SHALE WITH OCCASIONAL SANDSTONE LAYERS - Weathered to Highly Weathered, Medium Hard, Dark Gray
K2 - SANDSTONE WITH OCCASIONAL CLAY SEAMS - Slightly Weathered, Well Cemented, Occasional Fractures, Gray
L2 - SHALE - Weathered to Slightly Weathered, Medium Hard, Dark Gray
M2 - SANDSTONE WITH FREQUENT SHALE LAYERS - Slightly Weathered, Cemented, Gray
N2 - SANDSTONE - Slightly Weathered, Cemented to Well Cemented, Frequent Fractures, Gray
O2 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Unweathered, Cemented, Occasional Fractures, Frequent Quartz Veins, Gray
P2 - SANDSTONE - Unweathered, Poorly Cemented, Gray
Q2 - SANDSTONE WITH FREQUENT SHALE LAYERS - Slightly Weathered, Cemented, Frequent Quartz Veins, Gray
R2 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Unweathered, Cemented with Poorly Cemented Layers
S2 - SANDSTONE - Weathered with Highly Weathered Layers, Cemented with Poorly Cemented Layers, Brown
T2 - SANDSTONE - Slightly Weathered and Highly Weathered along Fractures, Well Cemented, Frequent Fractures, Brown and Gray
U2 - SANDSTONE WITH OCCASIONAL SHALE SEAMS AND LAYERS - Unweathered, Cemented, Gray

V2 - SANDSTONE - Highly Weathered, Brown
W2 - SANDSTONE - Slightly Weathered, Well Cemented, Occasional Fractures, Gray
X2 - SHALE WITH OCCASIONAL SANDSTONE LAYERS - Weathered, Soft (Shale) and Poorly Cemented to Cemented (Sandstone), Dark Gray
Y2 - SANDSTONE WITH OCCASIONAL SHALE SEAMS - Slightly Weathered, Cemented, Gray
Z2 - SANDSTONE - Highly Weathered, Poorly Cemented, Light Brown
A3 - SANDSTONE - Slightly Weathered with Highly Weathered Layers, Well Cemented with Poorly Cemented Layers, Frequent Fractures, Gray
B3 - SANDSTONE WITH OCCASIONAL CLAY SEAMS - Slightly Weathered, Well Cemented with Cemented Layers, Frequent Fractures, Gray
C3 - SANDSTONE WITH OCCASIONAL CLAY SEAMS - Slightly Weathered with Highly Weathered Layers, Well Cemented with Cemented Layers, Frequent Fractures, Gray
D3 - SANDSTONE WITH FREQUENT SHALE LAYERS - Highly Weathered to Weathered, Poorly Cemented to Cemented, Frequent Fractures, Reddish Brown and Dark Gray
E3 - SHALE WITH FREQUENT SANDSTONE LAYERS - Highly Weathered, Soft, Dark Gray
F3 - SANDSTONE - Slightly Weathered, Well Cemented, Gray
G3 - SHALE WITH OCCASIONAL SANDSTONE LAYERS - Highly Weathered to Weathered, Soft to Medium Hard, Dark Gray
H3 - SANDSTONE INTERBEDDED WITH SHALE - Unweathered (Sandstone) to Highly Weathered (Shale), Well Cemented (Sandstone) to Soft (Shale), Gray to Dark Gray
I3 - Dry, Very Stiff, Reddish Brown Sandy Lean Clay
J3 - Dry, Hard, Reddish Brown Sandy Lean Clay
K3 - Dry, Very Hard, Reddish Brown Sandy Clay
L3 - SHALE - Highly Weathered, Medium Hard, Steeply Dipping, Light Gray to Gray
M3 - SANDSTONE - Weathered, Cemented, Steeply Dipping, Gray
N3 - SHALE WITH OCCASIONAL SANDSTONE LAYERS - Highly Weathered, Soft to Medium Hard, Frequent Fractures, Steeply Dipping, Gray
O3 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Highly Weathered, Poorly Cemented, Steeply Dipping, Gray
P3 - SHALE WITH FREQUENT SANDSTONE LAYERS - Highly Weathered, Dark Gray to Gray
Q3 - SHALE - Slightly Weathered, Medium Hard, Dark Gray
R3 - SANDSTONE - Slightly Weathered, Cemented, Gray
S3 - SHALE - Weathered, Medium Hard, Dark Gray
T3 - SANDSTONE - Slightly Weathered, Cemented to Well Cemented, Occasional Fractures, Occasional Clay Seams, Gray
U3 - SHALE - Weathered, Soft to Medium Hard, Gray
V3 - SANDSTONE - Slightly Weathered, Cemented, Occasional Fractures, Gray
W3 - SHALE - Weathered, Medium Hard, Dark Gray
X3 - SHALE WITH FREQUENT SANDSTONE LAYERS - Slightly Weathered, Medium Hard, Dark Gray
Y3 - SANDSTONE WITH OCCASIONAL SHALE LAYERS - Slightly Weathered, Cemented to Well Cemented, Frequent Fractures, Gray
Z3 - SHALE WITH OCCASIONAL SANDSTONE LAYERS - Slightly Weathered, Medium Hard, Dark Gray

"N" VALUES

Boring No. 1
Sta. 110+40
16' Right of CL Construction
3.0 - 4.0, N = 9
5.0 - 6.0, N = 21
7.0 - 7.5, N = 60 (6")
9.5 - 9.8, N = 60 (4")

Boring No. 2
Sta. 110+42
16' Left of CL Construction
3.0 - 4.0, N = 24
5.4 - 6.4, N = 40
7.9 - 8.1, N = 60 (2")
10.4 - 10.8, N = 60 (5")
15.4 - 16.4, N = 80
18.9 - 19.1, N = 60 (2")

Boring No. 3
Sta. 111+87
13' Right of CL Construction
2.5 - 3.4, N = 113 (11")
4.6 - 5.2, N = 119 (7")
6.6 - 6.7, N = 60 (1")

Boring No. 4
Sta. 111+87
13' Left of CL Construction
2.2 - 3.2, N = 33
4.6 - 5.6, N = 56
7.1 - 7.4, N = 60 (4")

Boring No. 5
Sta. 113+07
16' Right of CL Construction
2.5 - 2.9, N = 60 (5")
3.6 - 3.8, N = 60 (2")

Boring No. 6
Sta. 113+13
10' Left of CL Construction
3.0 - 4.0, N = 29
5.1 - 6.1, N = 35
7.6 - 8.6, N = 19
9.6 - 10.1, N = 60 (6")
12.1 - 12.4, N = 50 (4")



BRIDGE ENGINEER

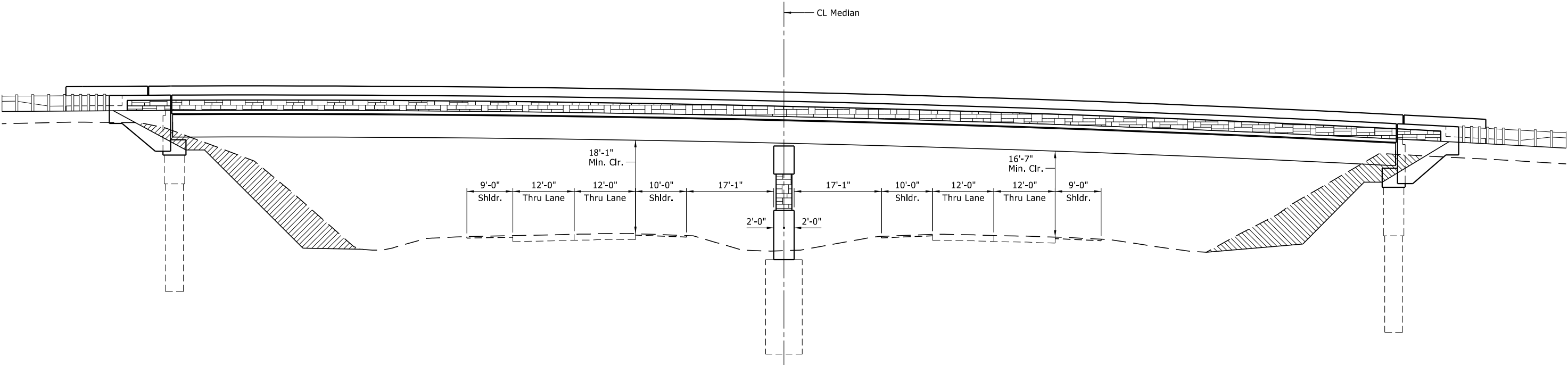
SHEET 4 OF 5
LAYOUT OF BRIDGE
HIGHWAY 283 OVER INTERSTATE 30
I-30 STR. & APPRS. (HWY. 283) (S)
HOT SPRING COUNTY
ROUTE 283 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_i4
CHECKED BY: HRA DATE: 3/2024 SCALE: NONE
DESIGNED BY: CBM DATE: 2/2024

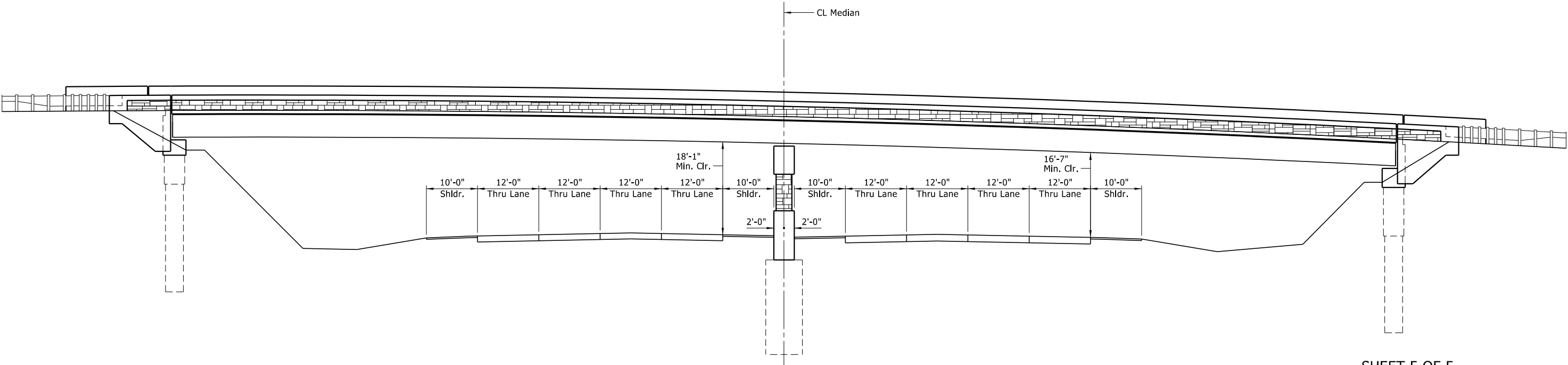
BRIDGE NO. 07680

DRAWING NO. 67308

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	84	136
		07680 -		LAYOUT	- 67309	



SECTION THROUGH EXISTING PAVEMENT



SECTION THROUGH FUTURE WIDENING (BY OTHERS)



BRIDGE ENGINEER

SHEET 5 OF 5
LAYOUT OF BRIDGE
HIGHWAY 283 OVER INTERSTATE 30
I-30 STR. & APPRS. (HWY. 283) (S)
HOT SPRING COUNTY
ROUTE 283 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

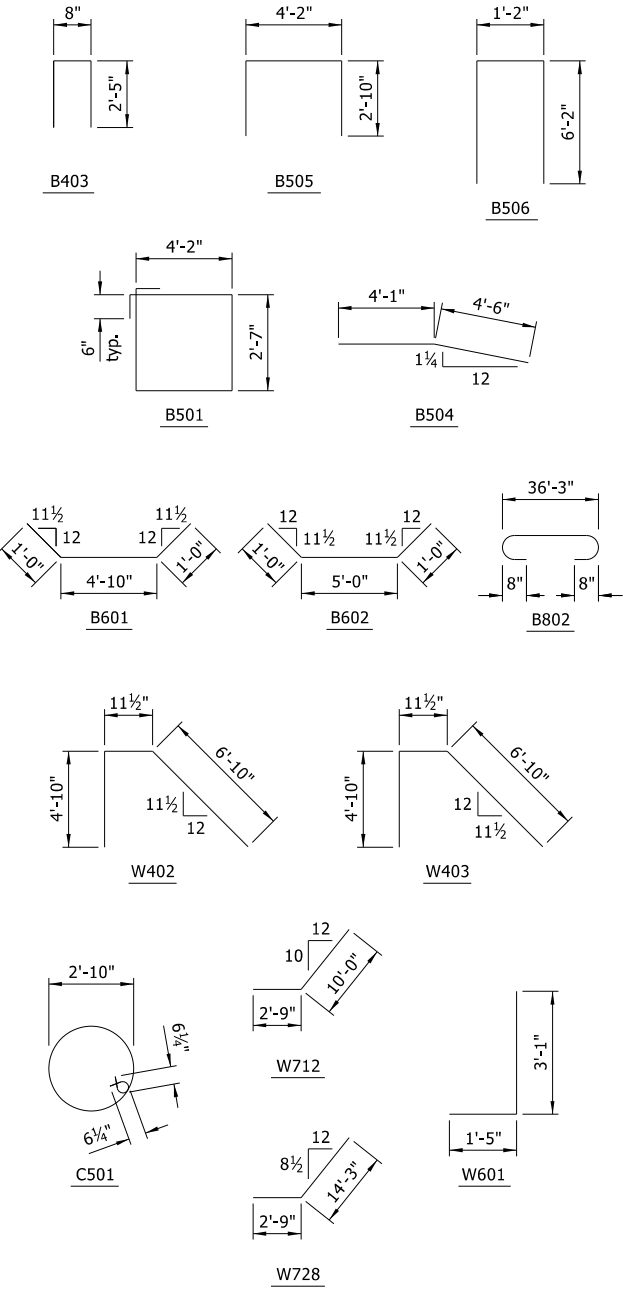
DRAWN BY: JCR DATE: 2/2024 FILENAME: b061741_I5
CHECKED BY: HRA DATE: 3/2024 SCALE: 1" = 10'-0"
DESIGNED BY: CBM DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67309

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	86	136
07680 -				BENT 1	- 67311	

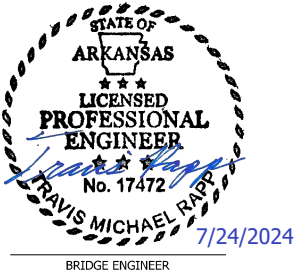
BAR LIST

MARK	NO.	REQ'D.	LENGTH	P.D.
B401	3		6'-4"	Str.
B402	3		8'-3"	Str.
B403	68		5'-4"	2"
B501	55		14'-0"	2½"
B502	20		36'-3"	Str.
B503	2		14'-10"	Str.
B504	24		8'-6"	2½"
B505	46		9'-8"	2½"
B506	68		13'-4"	2½"
B601	8		6'-10"	4½"
B602	8		7'-0"	4½"
B801	6		36'-3"	Str.
B802	6		38'-1"	6"
C501	216		10'-3"	3¾"
C901	14		23'-1"	Str.
C902	14		25'-1"	Str.
C903	14		27'-1"	Str.
C904	14		29'-2"	Str.
F601	5		2'-2"	Str.
R401E	56		6'-4"	2½"
R402E	8		5'-6"	Str.
R408E	8		11'-8"	Str.
R409E	8		15'-8"	Str.
W401E	56		3'-11"	3¾"
W402	5		12'-7"	2"
W403	9		12'-7"	2"
W501	6		7'-8"	Str.
W502 To W508	2 Ea.		7'-5" To 2'-4"	Str.
W509	8		2'-2"	Str.
W510	6		9'-8"	Str.
W511 To W521	2 Ea.		9'-5" To 2'-4"	Str.
W601	8		4'-4"	4½"
W701	10		11'-8"	Str.
W702 To W711	2 Ea.		8'-9" To 3'-6"	Str.
W712	2		12'-9"	5¼"
W713	10		15'-8"	Str.
W714 To W727	2 Ea.		12'-10" To 3'-7"	Str.
W728	2		17'-0"	5¼"

BENDING DIAGRAMS
Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated.



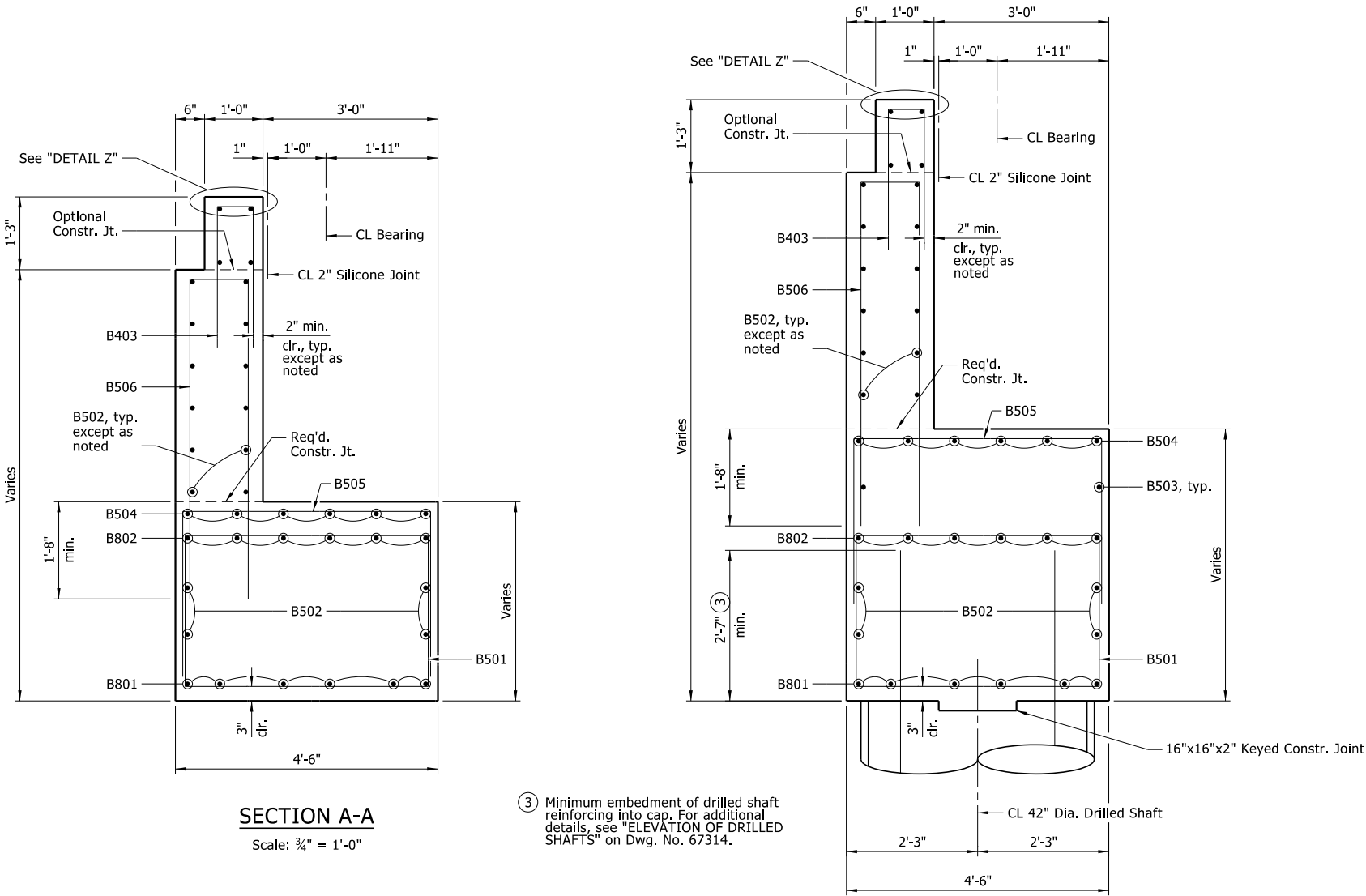
- ① For additional details of Bridge Traffic Rail Type SSTR36, see Std. Dwg. No. 55070 and Dwg. No. 67328 for "TABLE OF VARIABLES".
② Non-pay Item - See Special Provision "DRILLED SHAFT FOUNDATIONS". For additional details of Drilled Shaft, see Dwg. No. 67314.



SHEET 2 OF 5
DETAILS OF BENT 1

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TWM DATE: 2/2024 FILENAME: b061741_b12
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67311



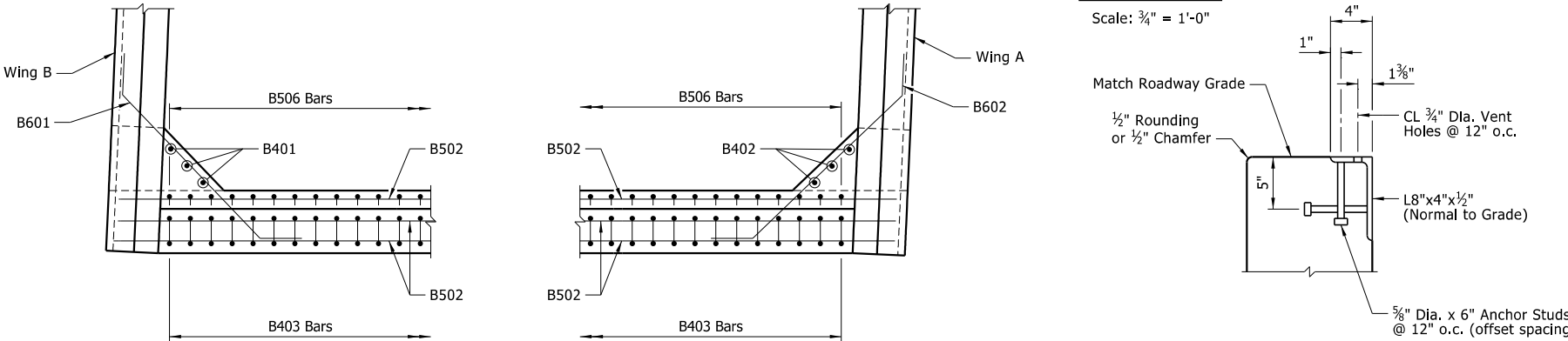
SECTION A-A

Scale: ¾" = 1'-0"

③ Minimum embedment of drilled shaft reinforcing into cap. For additional details, see "ELEVATION OF DRILLED SHAFTS" on Dwg. No. 67314.

SECTION B-B

Scale: ¾" = 1'-0"



VIEW C-C

Scale: ½" = 1'-0"

VIEW D-D

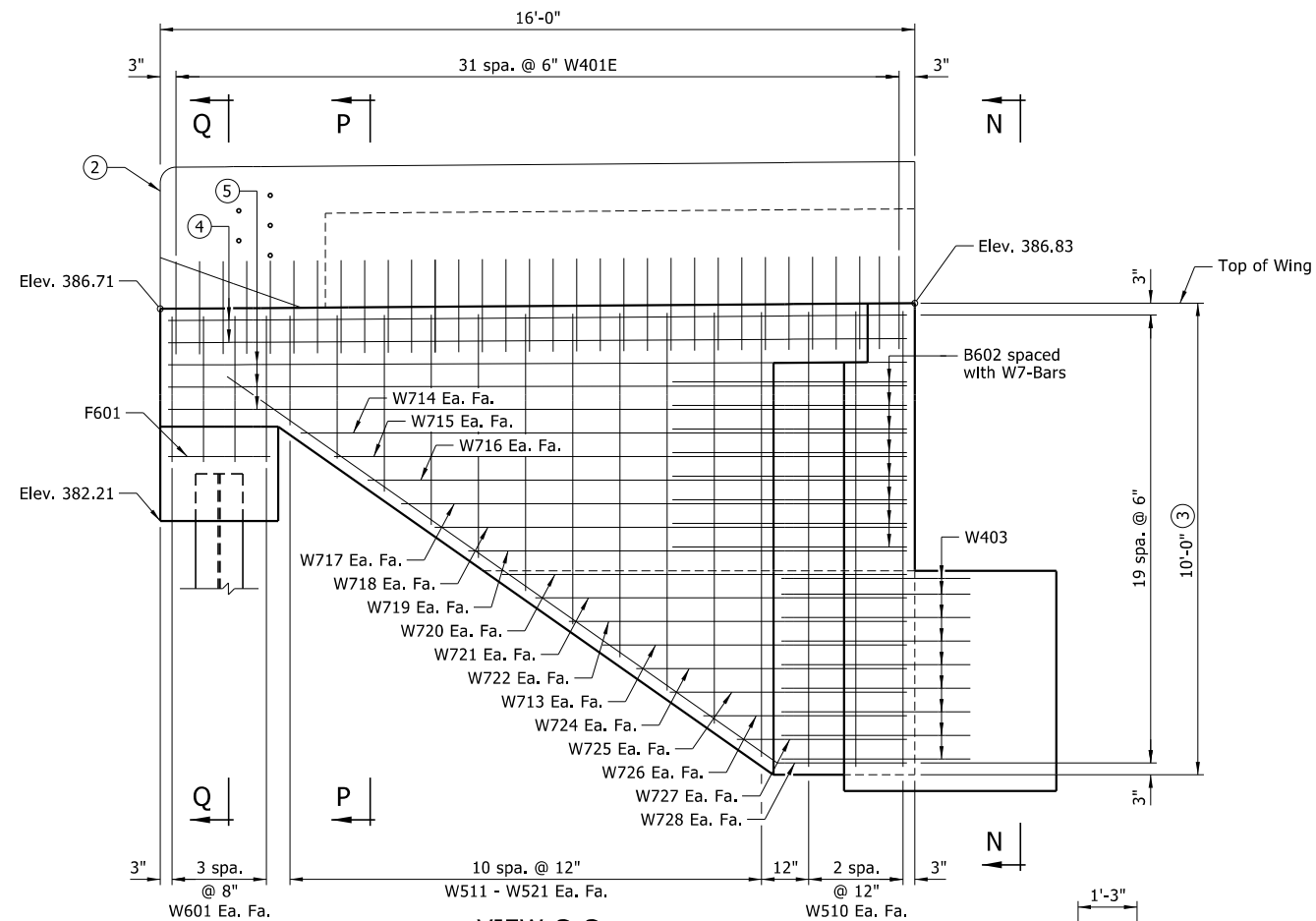
Scale: ½" = 1'-0"

DETAIL Z

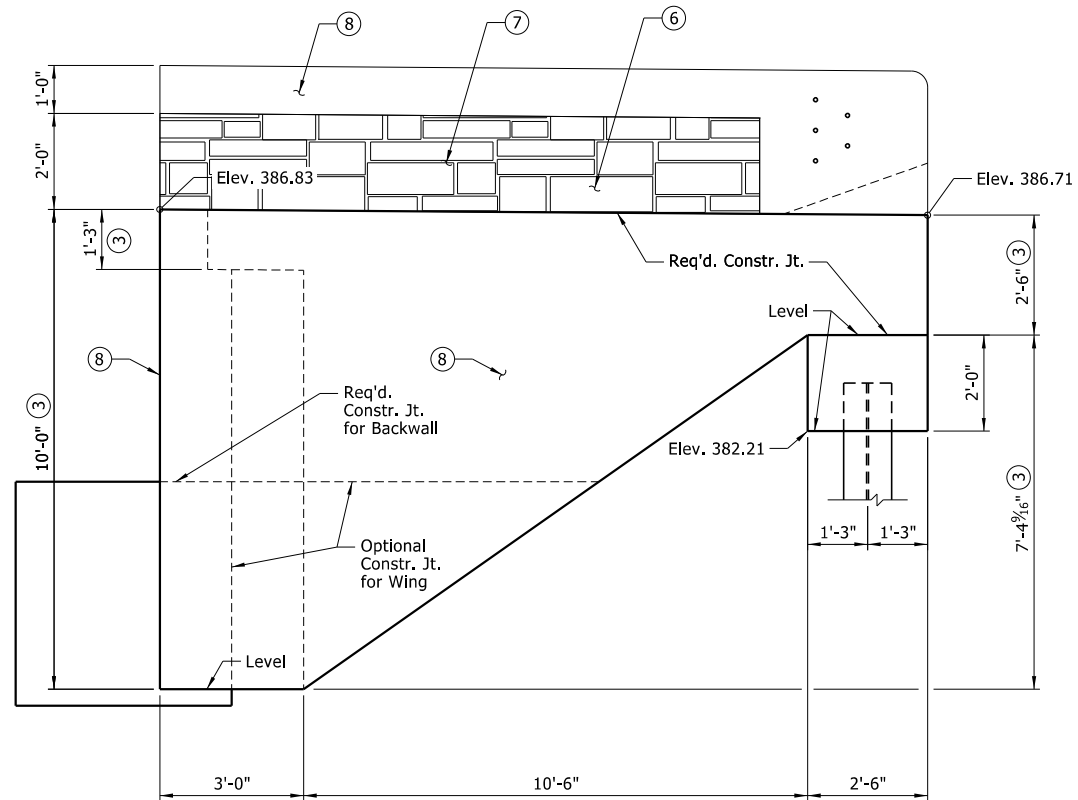
No Scale

NOTES:
Transverse spacing between vertical anchor studs and vent holes shall be 6".
Concrete shall be hand packed under the joint armor.
The profile of the backwall angle shall be established based on the vertical curve in conjunction with the skew.
For additional joint details, see Std. Dwg. No. 55008.
Special care shall be taken to properly and thoroughly consolidate the concrete in the vicinity of the expansion joint device in the backwall, see Subsection 802.09(a)(3).

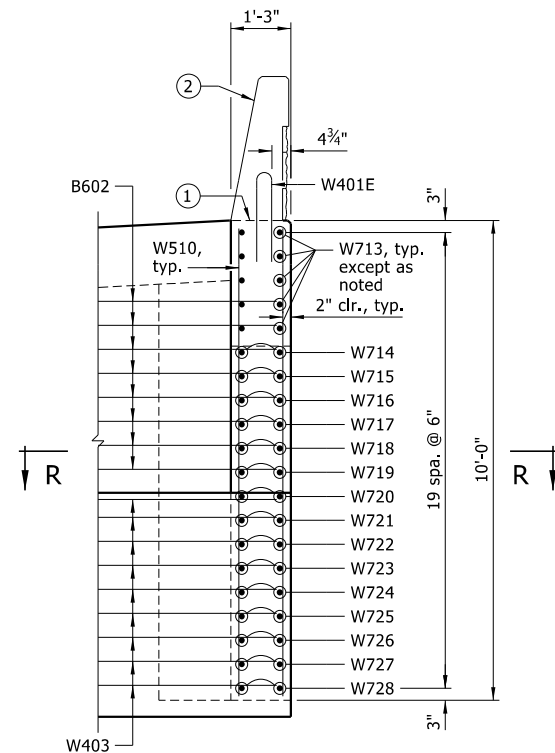
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	87	136
		07680 -		BENT 1		- 67312



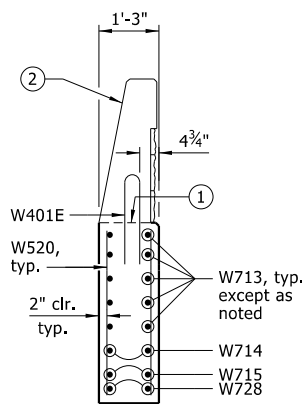
VIEW G-G
Scale: 1/2" = 1'-0"



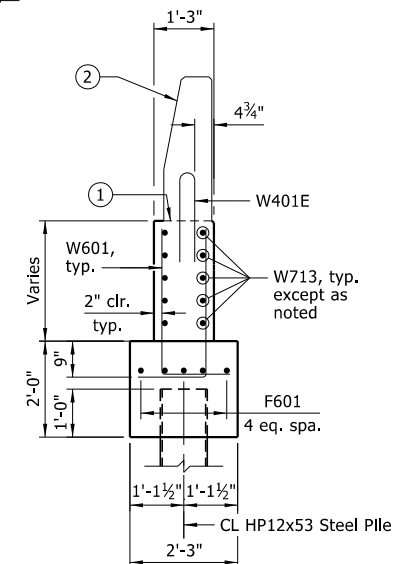
VIEW H-H
Scale: 1/2" = 1'-0"



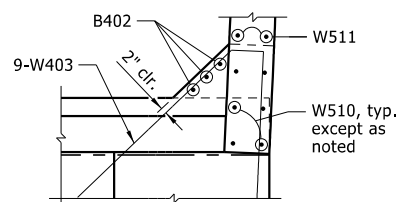
VIEW N-N
Scale: 1/2" = 1'-0"



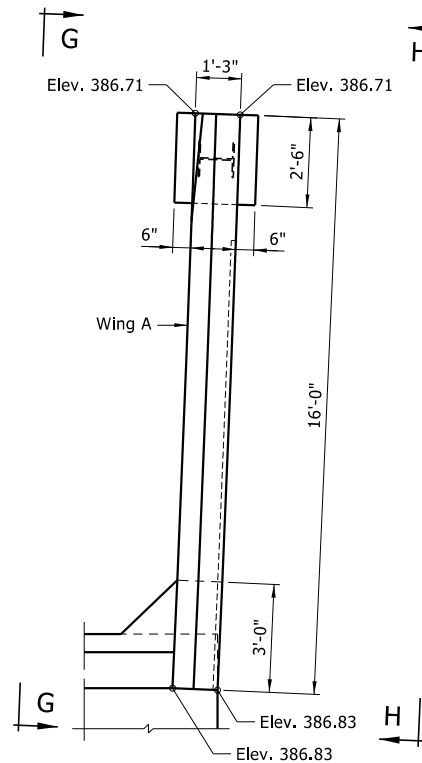
SECTION P-P
Scale: 1/2" = 1'-0"



SECTION Q-Q
Scale: 1/2" = 1'-0"



SECTION R-R
Scale: 3/8" = 1'-0"



PLAN OF WING
Scale: 3/8" = 1'-0"

- ① Required construction joint shall be level.
- ② For additional details of Bridge Traffic Rail Type SSTR36, see Std. Dwg. No. 55070 and Dwg. No. 67328 for "TABLE OF VARIABLES".
- ③ Measured along inside face of wing.
- ④ W713 Ea. Fa. (Place Parallel to Grade)
- ⑤ W713 Ea. Fa.
- ⑥ Ashlar Stone Pattern Form Liner. See Special Provision "ARCHITECTURAL FINISH".
- ⑦ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 30219).
- ⑧ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 33522).

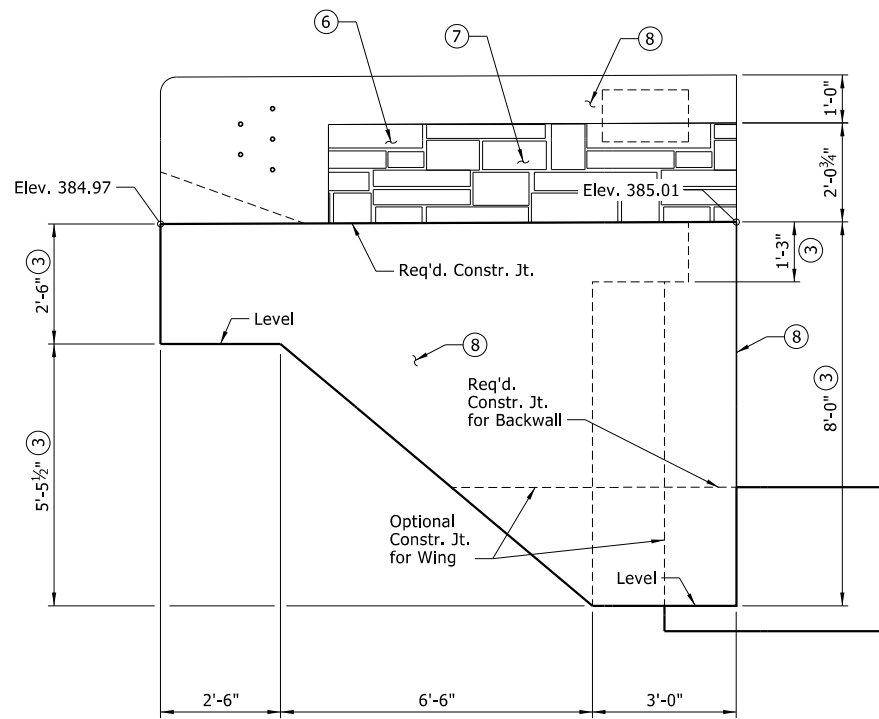


SHEET 3 OF 5
DETAILS OF BENT 1
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TWM DATE: 2/2024 FILENAME: b061741_b13
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024

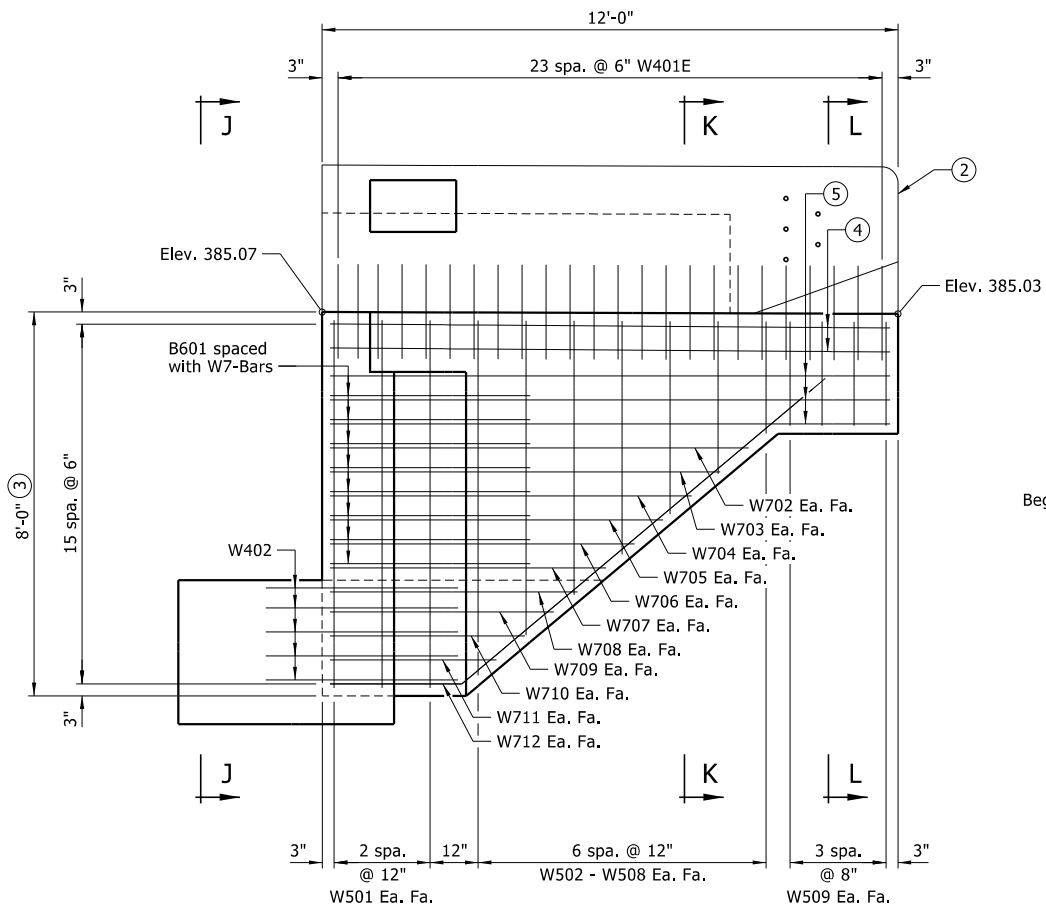
BRIDGE NO. 07680 DRAWING NO. 67312

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	88	136
		07680 -		BENT 1	- 67313	



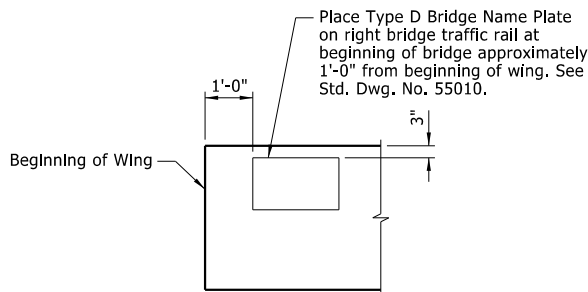
VIEW E-E

Scale: 1/2" = 1'-0"



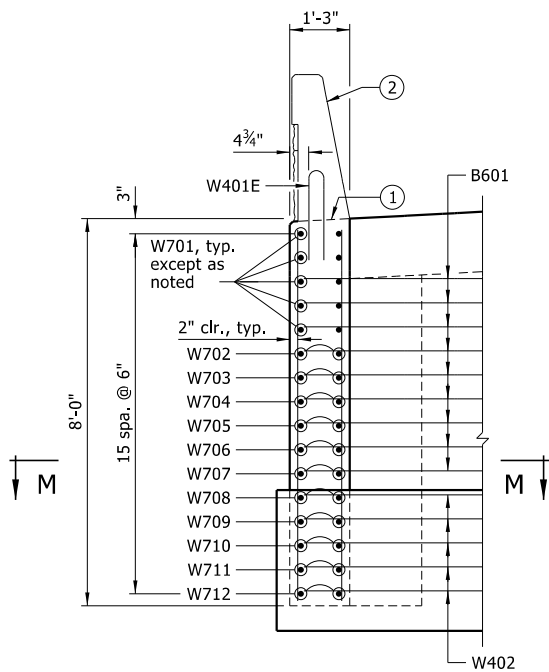
VIEW F-F

Scale: 1/2" = 1'-0"



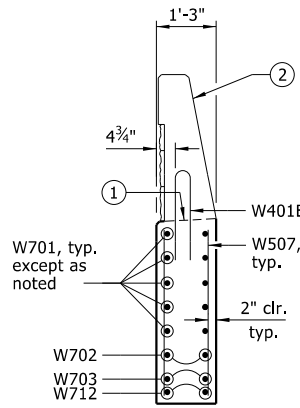
VIEW SHOWING LOCATION
OF BRIDGE NAME PLATE

No Scale



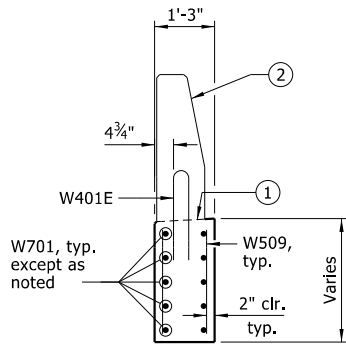
VIEW J-J

Scale: 1/2" = 1'-0"



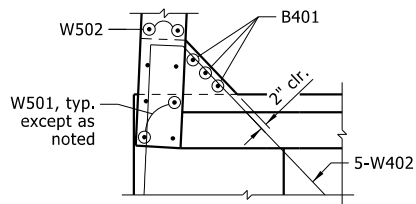
SECTION K-K

Scale: 1/2" = 1'-0"



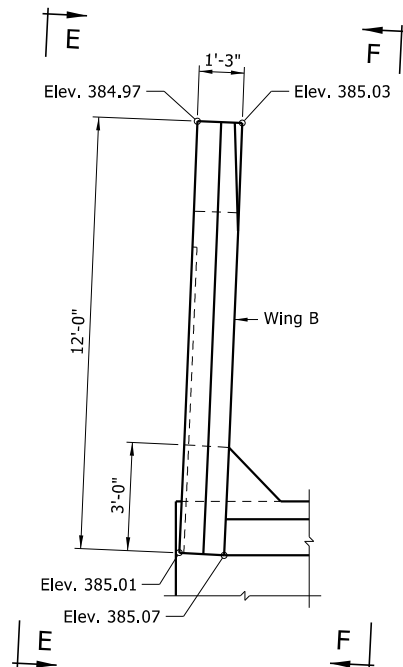
SECTION L-L

Scale: 1/2" = 1'-0"



SECTION M-M

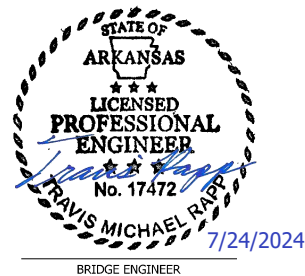
Scale: 3/8" = 1'-0"



PLAN OF WING

Scale: 3/8" = 1'-0"

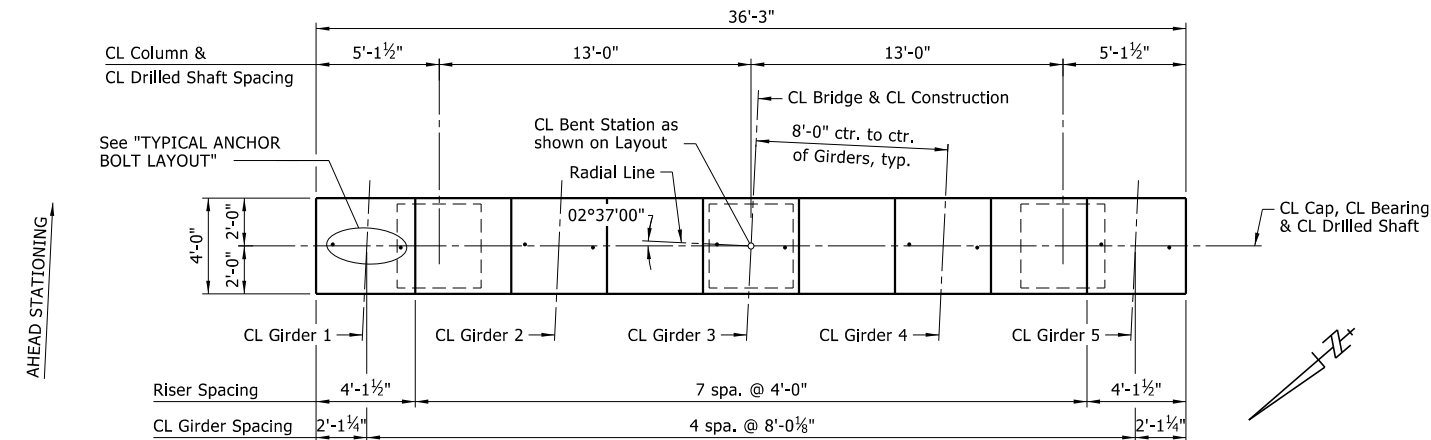
- ① Required construction joint shall match roadway slope.
- ② For additional details of Bridge Traffic Rail Type SSTR36, see Std. Dwg. No. 55070 and Dwg. No. 67328 for "TABLE OF VARIABLES".
- ③ Measured along inside face of wing.
- ④ W701 Ea. Fa. (Place Parallel to Grade)
- ⑤ W701 Ea. Fa.
- ⑥ Ashlar Stone Pattern Form Liner. See Special Provision "ARCHITECTURAL FINISH".
- ⑦ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 30219).
- ⑧ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 33522).



SHEET 4 OF 5
DETAILS OF BENT 1
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

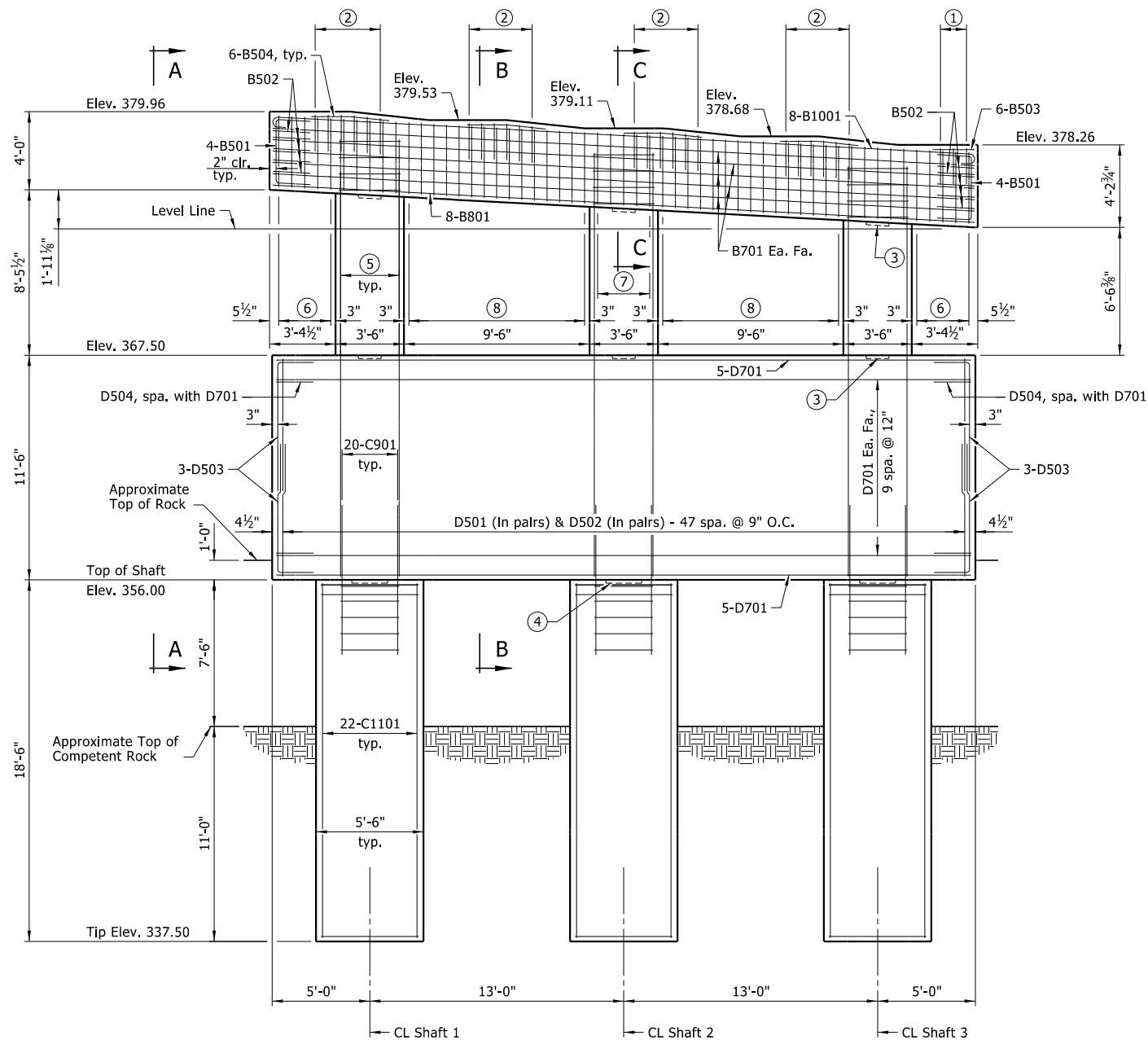
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CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67313

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	90	136
		07680 -		BENT 2		- 67315



PLAN

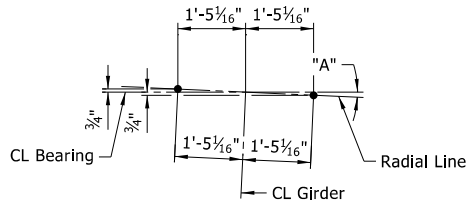
Scale: 1/4" = 1'-0"



ELEVATION

Looking Ahead Station
Scale: 1/4" = 1'-0"

Bearing seat elevations shall be $\pm \frac{1}{8}$ "
per the Standard Specifications.



GIRDER NO.	"A"
1	02°35'16"
2	02°36'08"
3	02°37'00"
4	02°37'53"
5	02°38'46"

TYPICAL ANCHOR BOLT LAYOUT

Scale: 1/2" = 1'-0"
For details of Elastomeric Bearings,
see Dwg. No. 67323

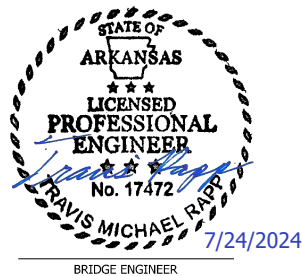
NOTES:
CL Bridge is on a 04°00'00" curve right.

Column and drilled shaft tie reinforcement not shown
for clarity. For additional details of reinforcing in
columns and drilled shafts, see Dwg. No. 67317.

For View A-A, Section B-B and Section C-C, see Dwg. No. 67316.

For additional General Notes, see Std. Dwg. No. 55006.

- ① 3 - B401 spa. with Double B601 Ties
- ② 6 - B401 spa. with Double B601 & B602 Ties
- ③ 14"x14"x2" Keyed Constr. Jt., typ.
- ④ 22"x22"x2" Keyed Constr. Jt., typ.
- ⑤ 20 - C902 - Column 1
20 - C903 - Column 2
20 - C904 - Column 3
- ⑥ Double B601 - 4 eq. spa. @ 8" max.
- ⑦ Double B602 - 4 eq. spa. @ 8" centered over column, typ.
- ⑧ Double B601 - 14 eq. spa. @ 8" max.



SHEET 1 OF 3
DETAILS OF BENT 2

ROUTE SEC.

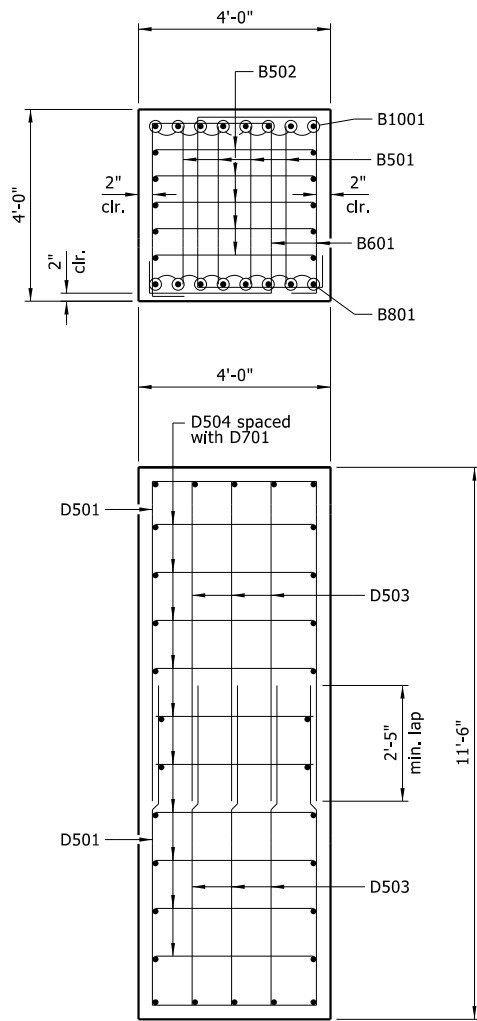
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_b21
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: CBM DATE: 2/2024

BRIDGE NO. 07680

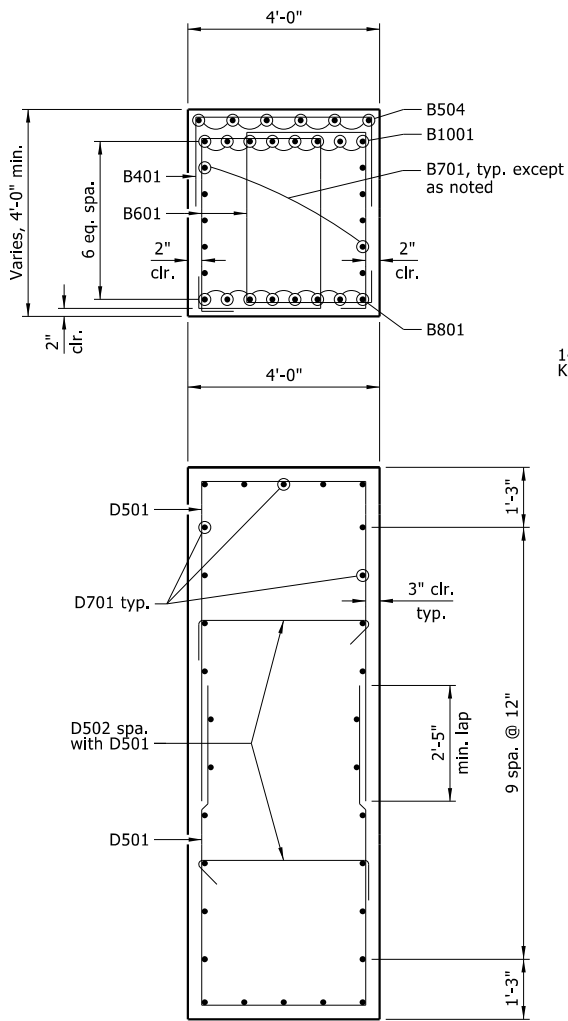
DRAWING NO. 67315

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	91	136
07680 -				BENT 2	- 67316	



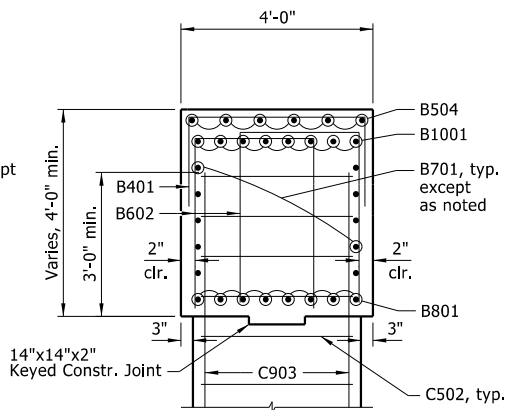
VIEW A-A

Scale: 1/2" = 1'-0"



SECTION B-B

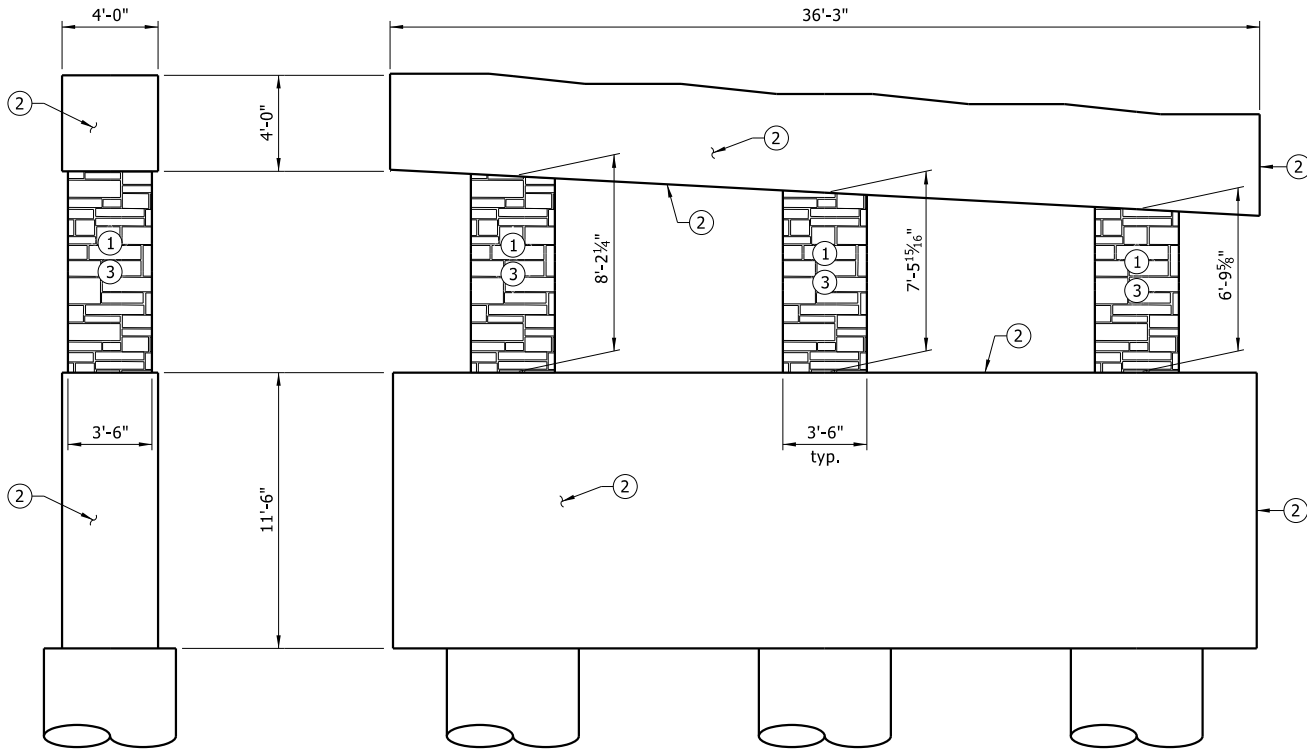
Scale: 1/2" = 1'-0"



SECTION C-C

Scale: 1/2" = 1'-0"

NOTE:
Reinforcing not labeled is typical to other sections.



END VIEW

ELEVATION

Looking Ahead

ASHLAR STONE PATTERN

Scale: 1/4" = 1'-0"

- ① Class 3 Textured Coating Finish
(Color = Brown, Color Chip No. 30219).
- ② Class 3 Textured Coating Finish
(Color = Brown, Color Chip No. 33522).
- ③ Ashlar Stone Pattern Form Liner.
See Special Provision "ARCHITECTURAL FINISH".



SHEET 2 OF 3
DETAILS OF BENT 2
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_b22
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: CBM DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67316

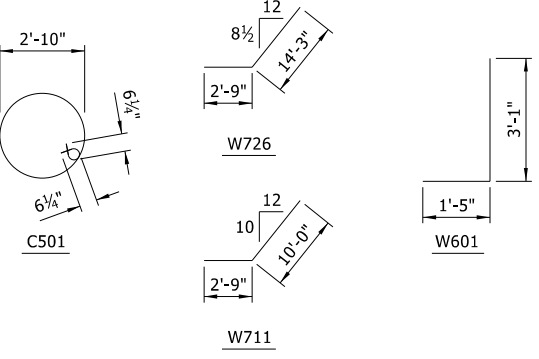
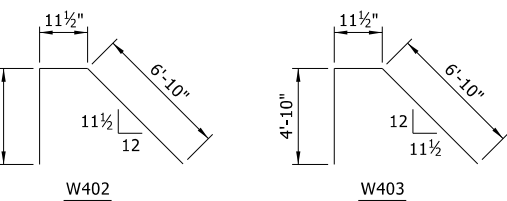
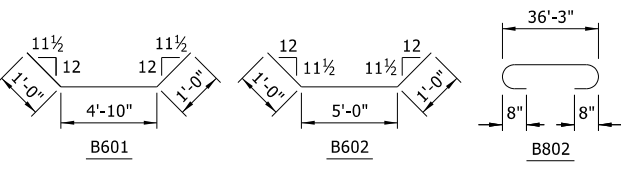
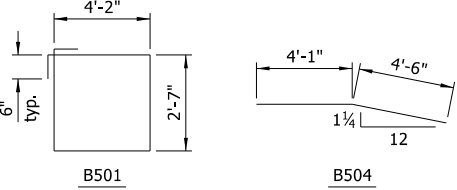
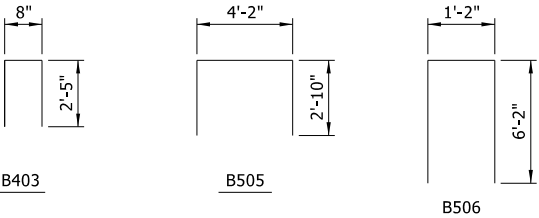
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	94	136
07680 -				BENT 3	- 67319	

BAR LIST

MARK	NO.	REQ'D.	LENGTH	P.D.
B401	3		6'-4"	Str.
B402	3		8'-3"	Str.
B403	68		5'-4"	2"
B501	55		14'-0"	2½"
B502	20		36'-3"	Str.
B503	2		14'-10"	Str.
B504	24		8'-6"	2½"
B505	46		9'-8"	2½"
B506	68		13'-4"	2½"
B601	8		6'-10"	4½"
B602	8		7'-0"	4½"
B801	6		36'-3"	Str.
B802	6		38'-1"	6"
② C501	174		10'-3"	3¾"
② C901	14		11'-2"	Str.
② C902	14		17'-9"	Str.
② C903	14		24'-3"	Str.
② C904	14		30'-10"	Str.
F601	5		2'-2"	Str.
① R401E	56		6'-4"	2½"
① R402E	8		5'-6"	Str.
① R408E	8		11'-8"	Str.
① R409E	8		15'-8"	Str.
① W401E	56		3'-11"	3¾"
W402	5		12'-7"	2"
W403	9		12'-7"	2"
W501	6		7'-8"	Str.
W502			7'-3"	
To	2 Ea.		To	Str.
W508			2'-5"	
W509	8		2'-2"	Str.
W510	6		9'-8"	Str.
W511			9'-3"	
To	2 Ea.		To	Str.
W521			2'-5"	
W601	8		4'-4"	4½"
W701	12		11'-8"	Str.
W702			8'-9"	
To	2 Ea.		To	Str.
W710			3'-6"	
W711	2		12'-9"	5¼"
W712	12		15'-8"	Str.
W713			12'-11"	
To	2 Ea.		To	Str.
W725			3'-8"	
W726	2		17'-0"	5¼"

BENDING DIAGRAMS

Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated.



- ① For additional details of Bridge Traffic Rail Type SSTR36, see Std. Dwg. No. 55070 and Dwg. No. 67328 for "TABLE OF VARIABLES".
- ② Non-pay item - See Special Provision "DRILLED SHAFT FOUNDATIONS". For additional details of Drilled Shaft, see Dwg. No. 67322.



SHEET 2 OF 5 DETAILS OF BENT 3

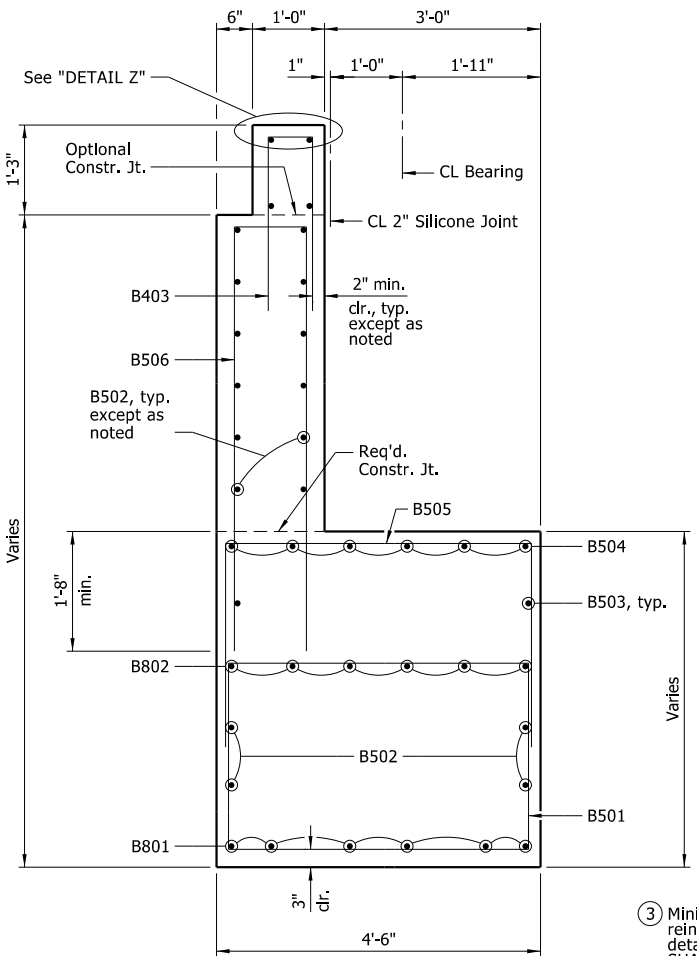
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_b32
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024

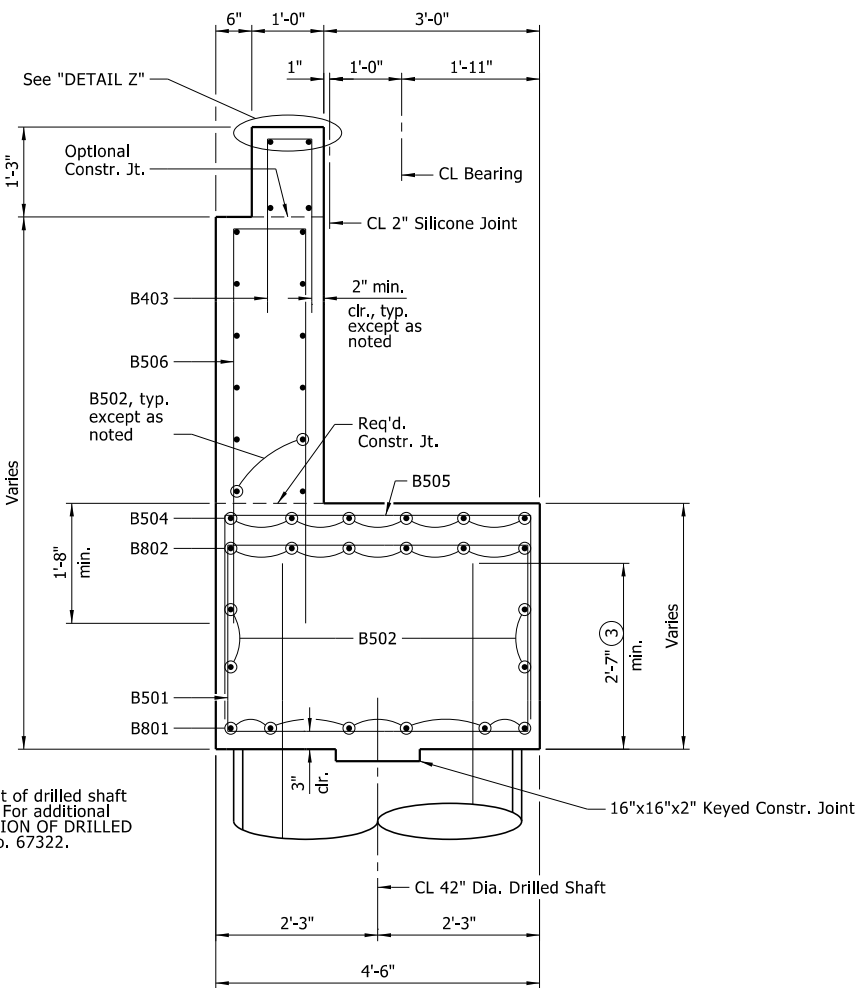
BRIDGE NO. 07680

DRAWING NO. 67319



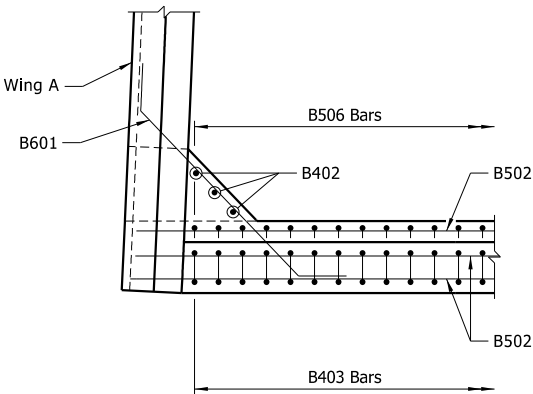
SECTION A-A

Scale: ¾" = 1'-0"



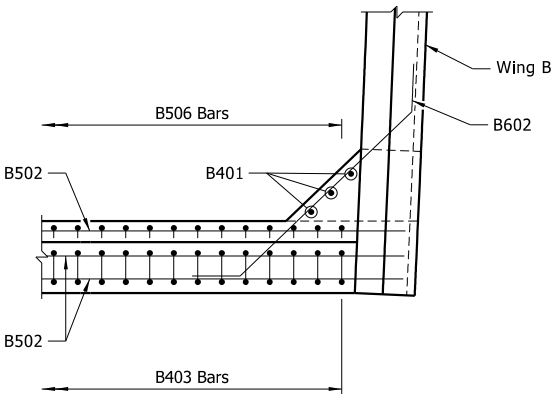
SECTION B-B

Scale: ¾" = 1'-0"



VIEW C-C

Scale: ½" = 1'-0"



VIEW D-D

Scale: ½" = 1'-0"

DETAIL Z

No Scale

NOTES:

Transverse spacing between vertical anchor studs and vent holes shall be 6".

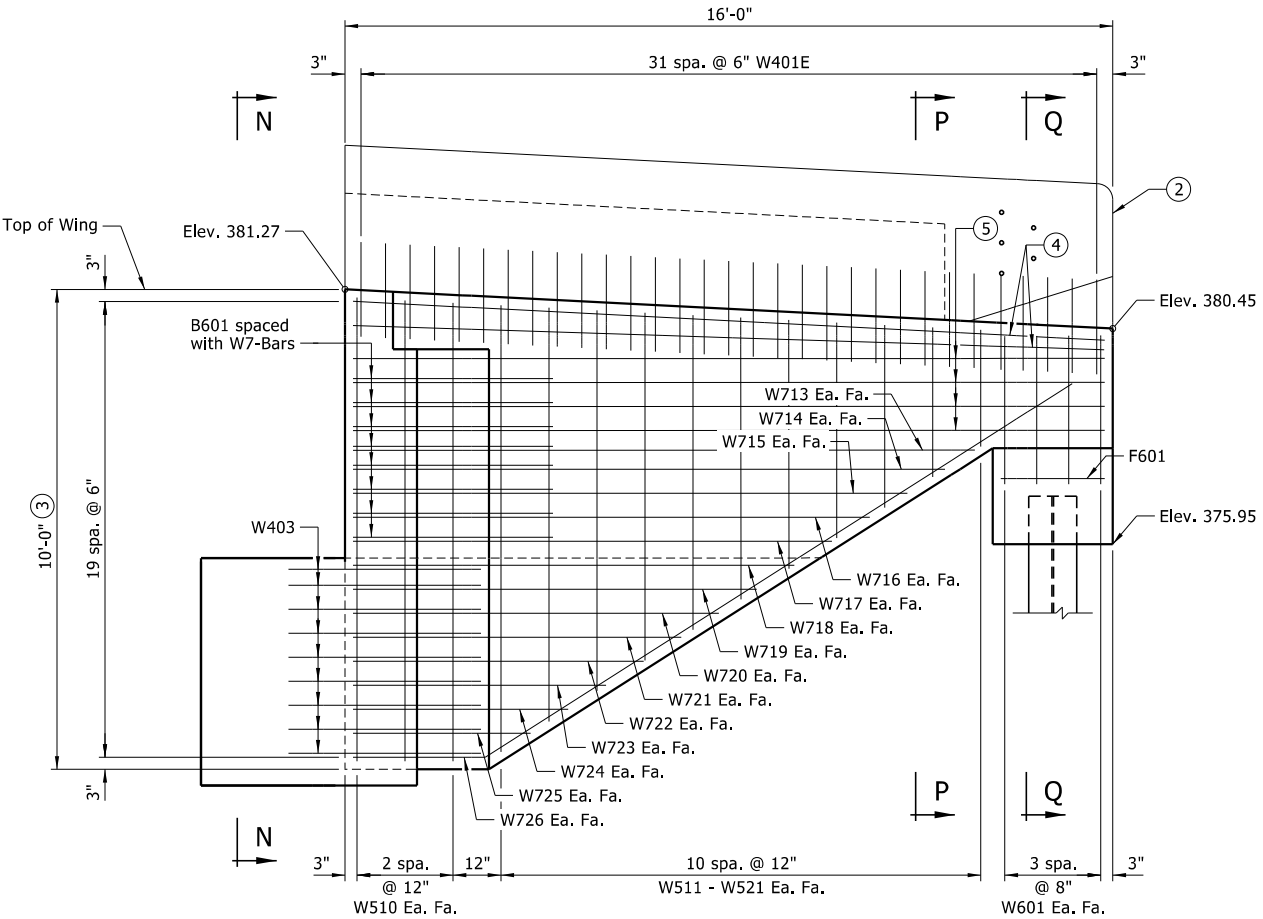
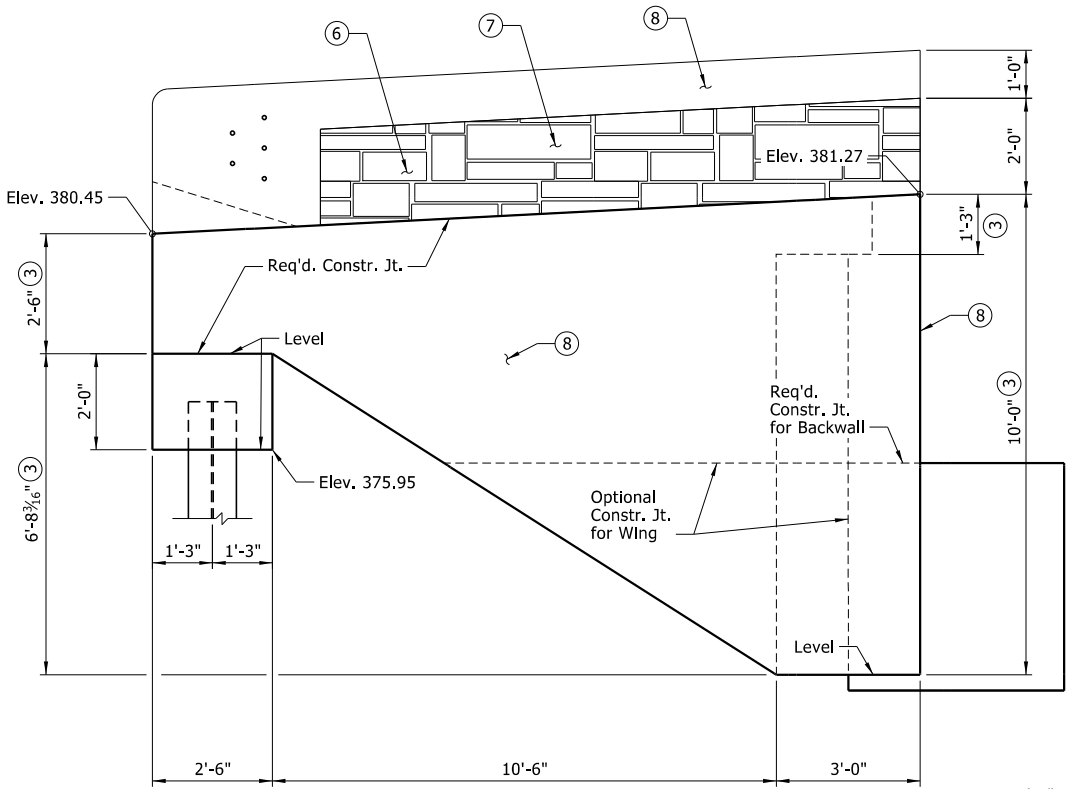
Concrete shall be hand packed under the joint armor.

The profile of the backwall angle shall be established based on the vertical curve in conjunction with the skew.

For additional joint details, see Std. Dwg. No. 55008.

Special care shall be taken to properly and thoroughly consolidate the concrete in the vicinity of the expansion joint device in the backwall, see Subsection 802.09(a)(3).

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	95	136
07680 -				BENT 3	- 67320	

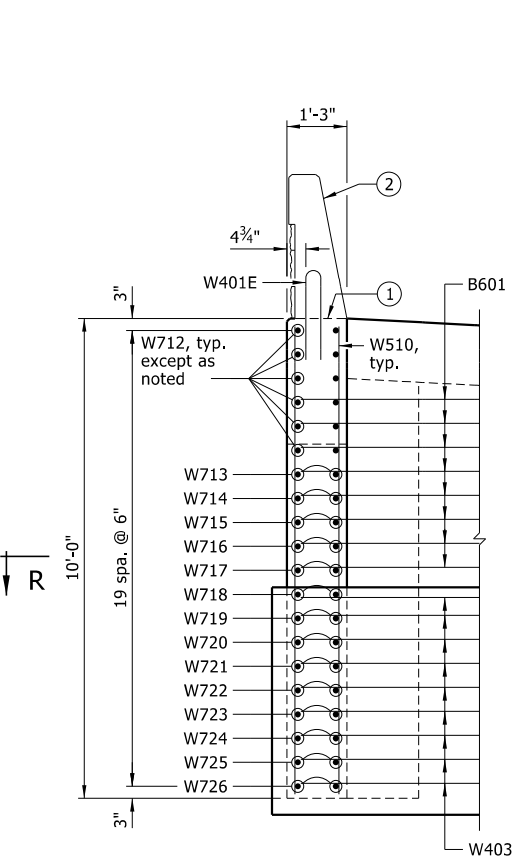


VIEW H-H

Scale: 1/2" = 1'-0"

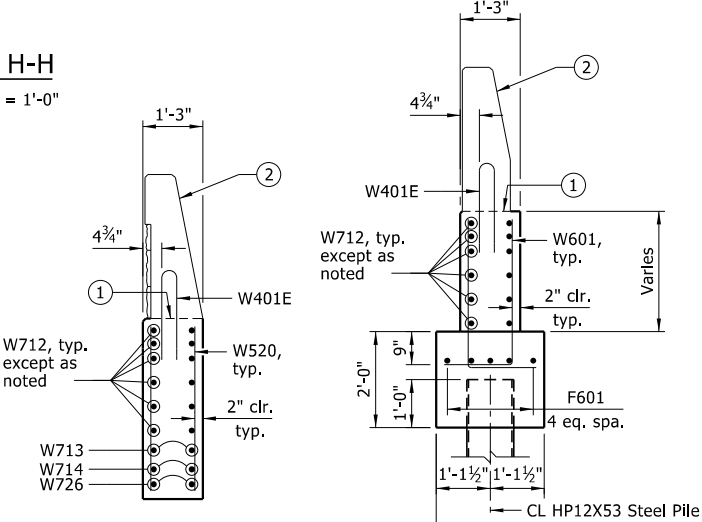
VIEW G-G

Scale: 1/2" = 1'-0"



VIEW N-N

Scale: 1/2" = 1'-0"

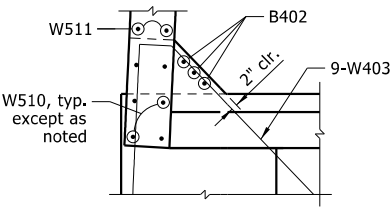


SECTION P-P

Scale: 1/2" = 1'-0"

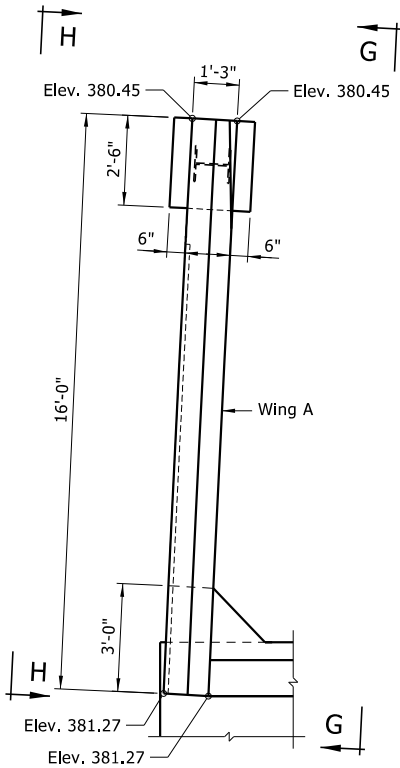
SECTION Q-Q

Scale: 1/2" = 1'-0"



SECTION R-R

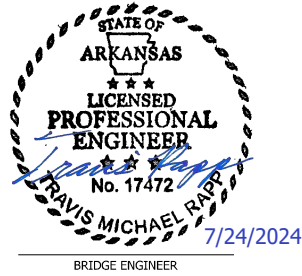
Scale: 3/8" = 1'-0"



PLAN OF WING

Scale: 3/8" = 1'-0"

- ① Required construction joint shall be level.
- ② For additional details of Bridge Traffic Rail Type SSTR36, see Std. Dwg. No. 55070 and Dwg. No. 67328 for "TABLE OF VARIABLES".
- ③ Measured along inside face of wing.
- ④ W712 Ea. Fa. (Place Parallel to Grade)
- ⑤ W712 Ea. Fa.
- ⑥ Ashlar Stone Pattern Form Liner. See Special Provision "ARCHITECTURAL FINISH".
- ⑦ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 30219).
- ⑧ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 33522).

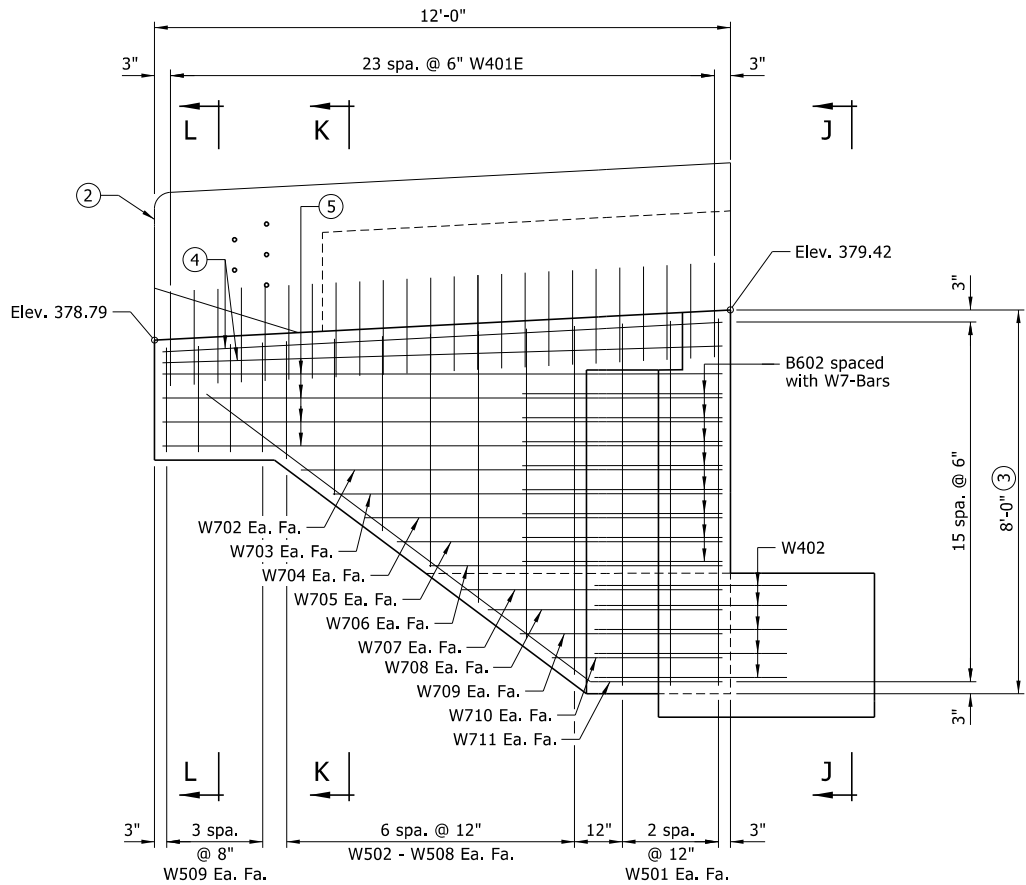


SHEET 3 OF 5
DETAILS OF BENT 3
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_b33
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024

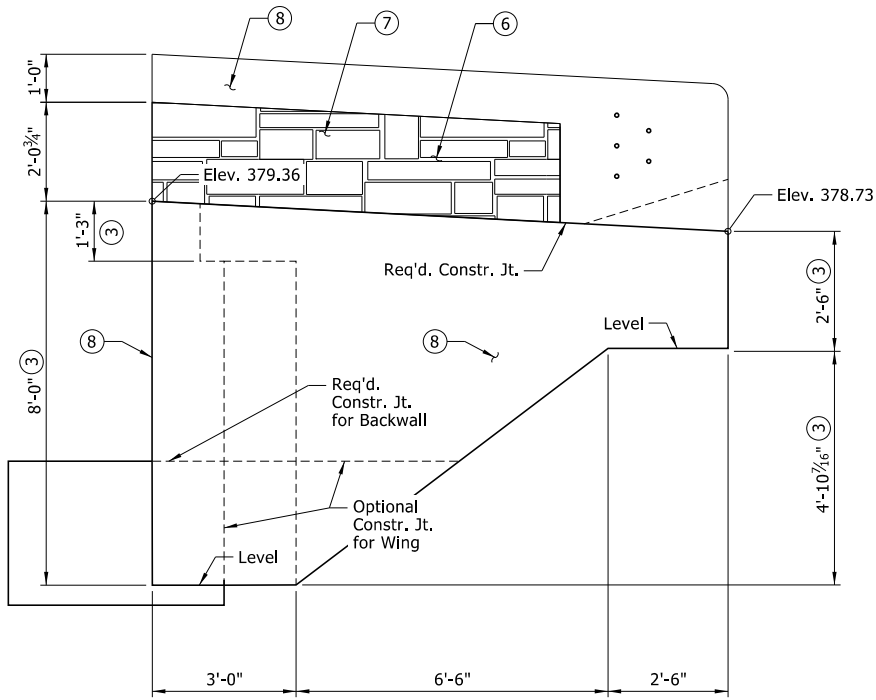
BRIDGE NO. 07680 DRAWING NO. 67320

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	96	136
		07680 -		BENT 3	- 67321	



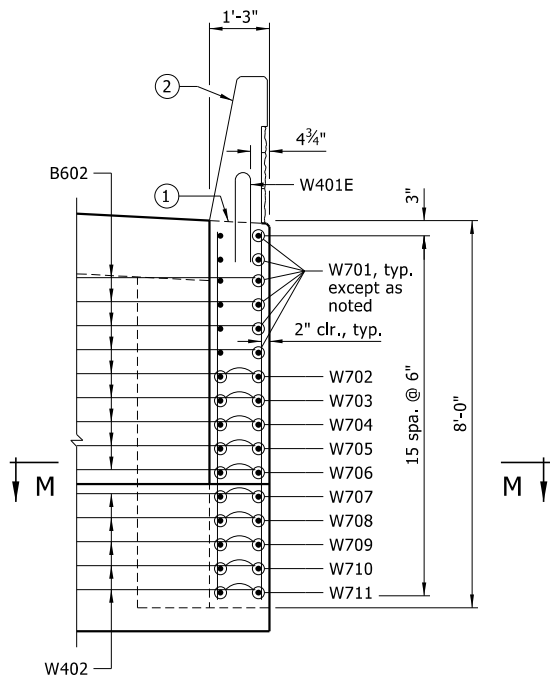
VIEW E-E

Scale: 1/2" = 1'-0"



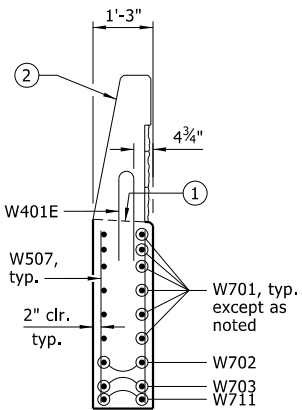
VIEW F-F

Scale: 1/2" = 1'-0"



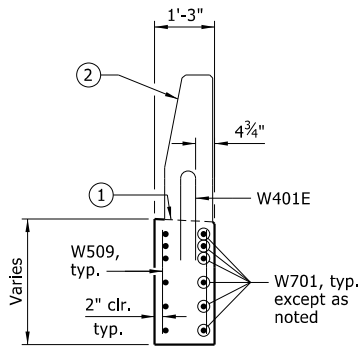
VIEW J-J

Scale: 1/2" = 1'-0"



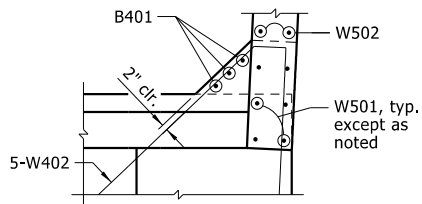
SECTION K-K

Scale: 1/2" = 1'-0"



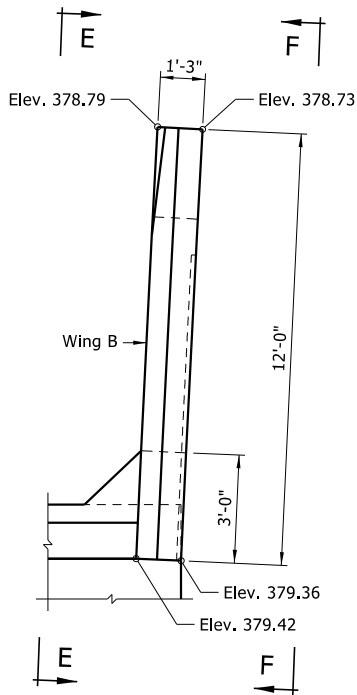
SECTION L-L

Scale: 1/2" = 1'-0"



SECTION M-M

Scale: 3/8" = 1'-0"



PLAN OF WING

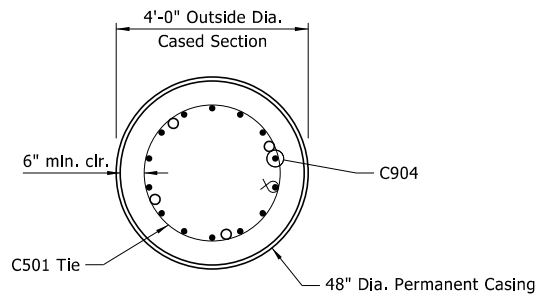
Scale: 3/8" = 1'-0"

- ① Required construction joint shall match roadway slope.
- ② For additional details of Bridge Traffic Rail Type SSTR36, see Std. Dwg. No. 55070 and Dwg. No. 67328 for "TABLE OF VARIABLES".
- ③ Measured along inside face of wing.
- ④ W701 Ea. Fa. (Place Parallel to Grade)
- ⑤ W701 Ea. Fa.
- ⑥ Ashlar Stone Pattern Form Liner. See Special Provision "ARCHITECTURAL FINISH".
- ⑦ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 30219).
- ⑧ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 33522).

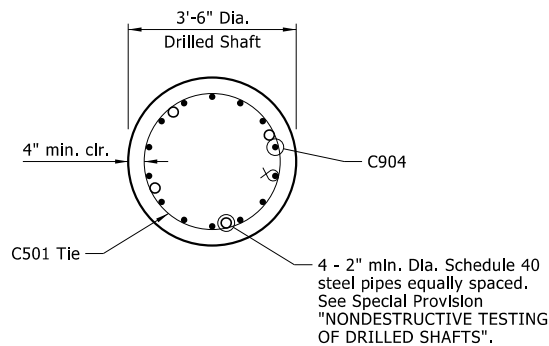


SHEET 4 OF 5
DETAILS OF BENT 3
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_b34
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67321

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	97	136
07680 -				BENT 3	- 67322	



SECTION S-S
Scale: 1/2" = 1'-0"



SECTION T-T
Scale: 1/2" = 1'-0"

NOTES:
Backwall above the required construction joint shall not be poured until the girders are in place. Backwall may be placed prior to placing the adjacent concrete deck only if the optional backwall construction joint is used. See "EXPANSION DEVICE INSTALLATION AT END BENTS" on Std. Dwg. No. 55008 for additional information. No heavy construction equipment or backfilling shall be allowed directly behind the backwall until the concrete for the adjacent span has been completed.

Finish top of backwall to match the bridge deck.

Structural Steel in end bents shall be ASTM A709, Gr. 50 and shall be paid for as "STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50)".

Class 2 Protective Surface Treatment shall be applied to the top of backwall and to the roadway face and top of the concrete bridge traffic rails.

Concrete in the drilled shaft shall be Class S as modified by Special Provision "DRILLED SHAFT FOUNDATIONS".

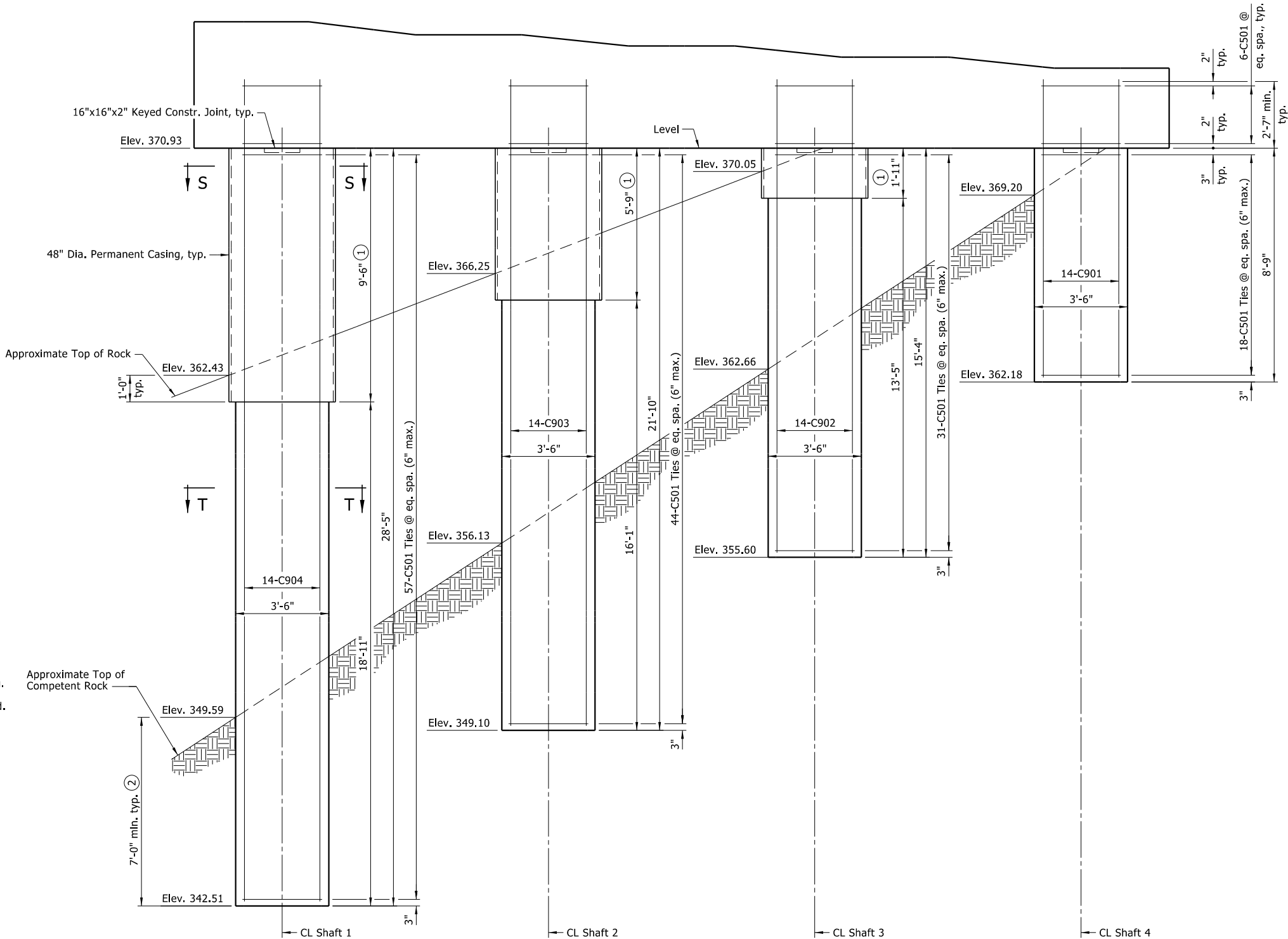
All reinforcing steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M 31 or M 322, Type A, with mill test reports.

Top reinforcing bars shall be properly placed to avoid interference with anchor bolts or sheet metal sleeves.

Concrete and reinforcing steel placed in the drilled shaft will not be paid for directly but shall be considered subsidiary to the unit price bid for "DRILLED SHAFT (42" DIA.)". No additional payment shall be made for spacers, additional splices, or bracing needed for assembly, shipping, handling, or erecting. Drilled shafts shall conform to Special Provision "DRILLED SHAFT FOUNDATIONS" and shall be paid for at the unit price bid for "DRILLED SHAFT (42" DIA.)".

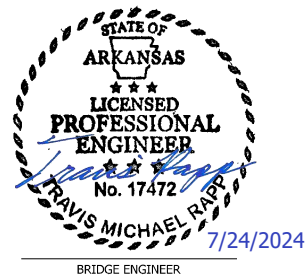
For additional General Notes, see Std. Dwg. No. 55006.

- Length of Permanent Casing shown is approximate. The 1 foot casing embedment into rock is approximate. The Contractor shall embed casing into rock to establish an adequate seal. Actual lengths of Permanent Casing are to be determined in the field. See Special Provision "DRILLED SHAFT FOUNDATIONS". Permanent casing shall not extend below top of competent rock without approval from the Engineer.
- Minimum penetration into competent rock.



ELEVATION OF DRILLED SHAFTS

Looking Ahead Station
No Scale

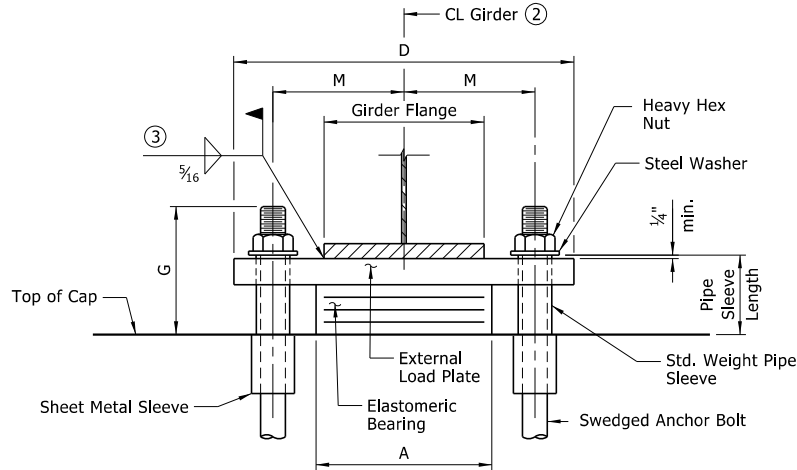


SHEET 5 OF 5
DETAILS OF BENT 3
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: TLW DATE: 2/2024 FILENAME: b061741_b35
CHECKED BY: TG DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: HRA DATE: 2/2024
BRIDGE NO. 07680 DRAWING NO. 67322

TABLE OF FABRICATOR VARIABLES

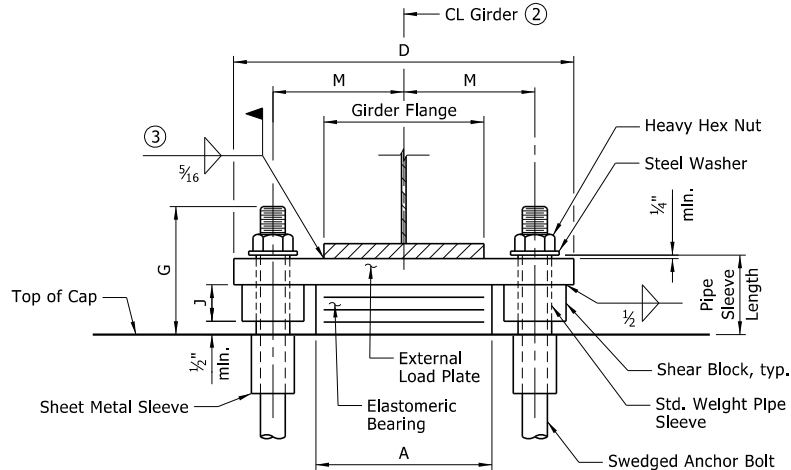
LOCATION							ELASTOMERIC PAD							EXTERNAL LOAD PLATE										ANCHOR BOLT				
BENT NO(S).	GIRDER NO.	BEARING TYPE	NO. OF BEARINGS EACH BENT	① MAXIMUM DESIGN LOAD (KIPS)	G	H	A	B	N	t _i	t _e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	J	K	M	T _a	T _b	ANCHOR BOLT		PIPE SLEEVE SIZE (Dia. x L)	SHEET METAL SLEEVE SIZE (Dia. x L)	STEEL WASHER SIZE (O.D.)	
																							(Dia. x L)	GRADE				
1	1-5	Exp.	5	130	7¾"	4⅞"	18"	8"	3	½"	¼"	4 @ 12 Gauge	2⅞"	9"	30½"	5¼"	3⅝"	-	½"	12"	2.02"	1.98"	2" x 28"	55	2½" x 4¾"	4" x 9"	3¾"	
2	1-5	Fix.	5	382	7¾"	4⅞"	24"	10"	3	½"	¼"	4 @ 12 Gauge	2⅞"	11"	43¼"	3⅝"	3⅝"	1¾"	½"	17⅞"	1.87"	2.13"	2" x 28"	55	2½" x 4¾"	4" x 10"	3¾"	
3	1-5	Exp.	5	130	7¾"	4⅞"	18"	8"	3	½"	¼"	4 @ 12 Gauge	2⅞"	9"	30½"	5¼"	3⅝"	-	½"	12"	1.77"	2.23"	2" x 28"	55	2½" x 4¾"	4" x 9"	3¾"	

① Maximum Design Load = Service 1 Limit State

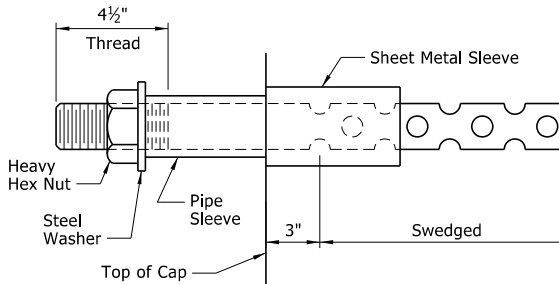


FRONT VIEW AT BENTS 1 & 3

② Centerline of the elastomeric pad shall be aligned with centerline of the girder.



FRONT VIEW AT BENT 2



ANCHOR BOLT DETAIL

Anchor bolts may be cast in place or drilled and grouted in place. If anchor bolts are to be cast in place, the galvanized sheet metal sleeves will not be required.

If anchor bolts are to be drilled and grouted in place, the galvanized sheet metal sleeves shall be cast in place as shown. Sleeves shall be dry packed with styrofoam, urethane foam or approved equal prior to pouring of concrete. After pouring of the cap and prior to erection of structural steel, the dry pack shall be removed and holes for the anchor bolts shall be accurately drilled into the concrete. Bolts placed in drilled holes shall be completely set and fixed using a QPL approved epoxy or non-shrink grout that completely fills the holes. Galvanized sheet metal sleeves shall meet the requirements of ASTM 653, CS Type B or approved equal, be of minimum 16 gage thickness, and be galvanized according to ASTM B695, Class 50. Sheet metal sleeves will not be paid for directly, but will be considered subsidiary to the item "STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50)".

NOTES:
Elastomeric bearings shall conform to Section 808 of the Standard Specifications and shall be paid for at the unit price bid for "ELASTOMERIC BEARINGS".

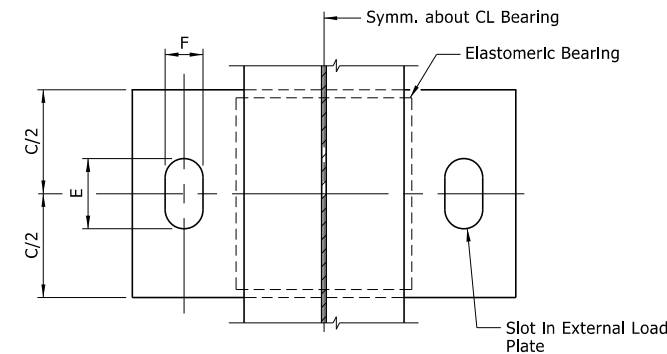
External load plates and shear blocks shall conform to ASTM A709, Grade 50. Pipe sleeves shall be ASTM A500, Grade B, and shall be galvanized to conform to AASHTO M 232, Class C or ASTM B695, Class 50.

External load plates and shear blocks shall be completely fabricated (including bevel, bolt holes and all shop welding) and shall be cleaned before vulcanizing to the elastomeric bearing. The surface in contact with the elastomeric bearing shall be cleaned in accordance with Subsection 808.03. Other surfaces shall be blast cleaned in accordance with Subsection 807.84(b) for painted steel and painted in accordance with Subsection 807.75. Mask areas of field welding. The color of paint shall conform to Federal Standard 595B, Color Chip No. 20108 (semi-gloss), Dark Brown. Painting will not be paid for directly, but shall be considered subsidiary to "ELASTOMERIC BEARINGS."

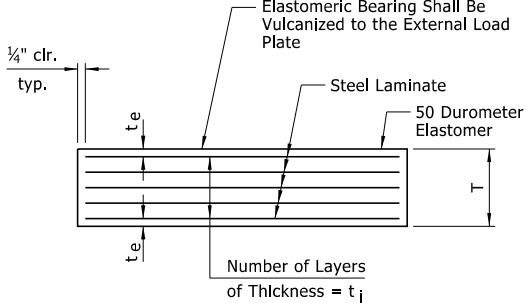
Anchor bolts, washers and nuts shall conform to Subsection 807.07. The anchor bolt grade of steel shall be as specified in the "TABLE OF FABRICATOR VARIABLES". Indentations shall be circular with rounded bottoms and staggered as shown in the details.

Pipe sleeves, anchor bolts, washers and nuts shall be paid for at the unit price bid for "STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50)". External load plates and shear blocks will not be measured or paid for separately, but will be considered subsidiary to "ELASTOMERIC BEARINGS".

Bearings shall be seated in accordance with Subsection 808.08. This work and materials are considered subsidiary to the item "ELASTOMERIC BEARINGS" and will not be paid for directly.



PLAN VIEW AT BENTS 1 & 3



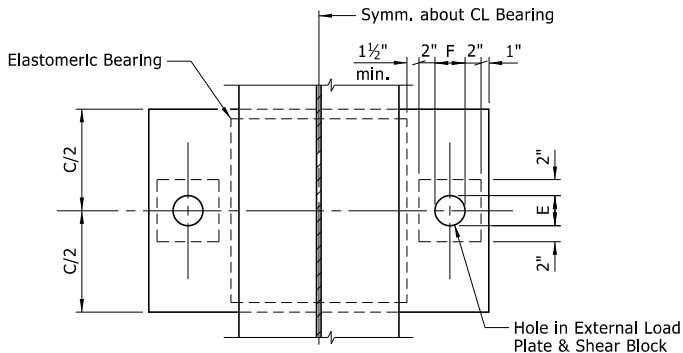
ELASTOMERIC BEARING

t_e = Thickness of Elastomer Cover on Top and Bottom of Pad
t_i = Thickness of Elastomer Between Steel Laminae
N = Number of Elastomer Layers of Thickness t_i

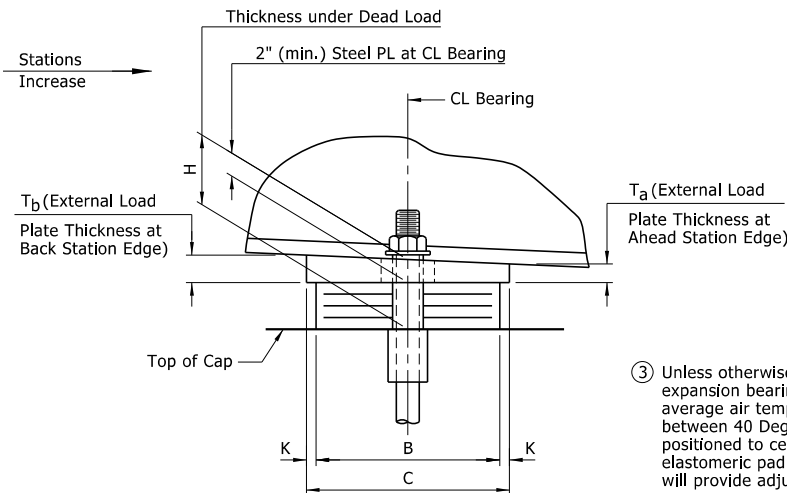
NOTE:
The direction of bevel of the external load plate may not be accurately depicted with respect to T_a and T_b values shown in the "TABLE OF FABRICATOR VARIABLES".

③ Unless otherwise approved by the Engineer, welding of the external load plate at expansion bearings to the girder will be allowed only when: 1) the approximate average air temperature during the 24 hour period immediately preceding welding is between 40 Deg. F and 80 Deg. F; and 2) the slots in the external load plate are positioned to center on the anchor bolts; and 3) no horizontal deformation of the elastomeric pad is evident. If welding at other temperatures is required, the Engineer will provide adjustment data.

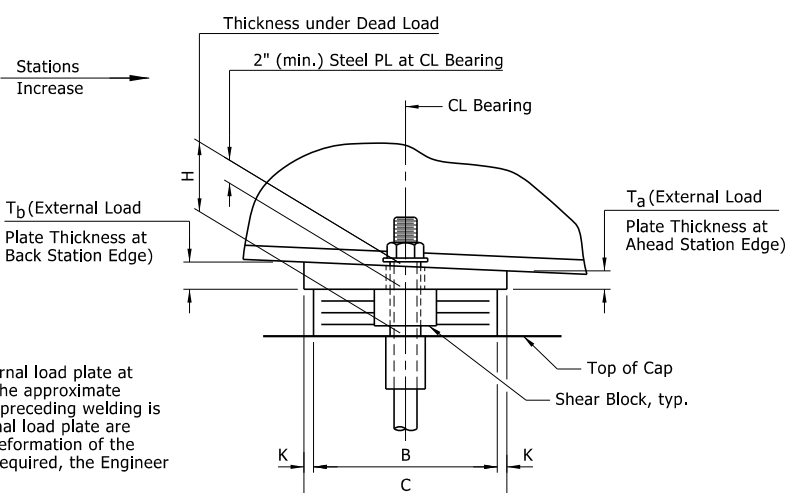
Care shall be taken to ensure that the external load plate is in full and complete contact with the girder flange before welding begins.



PLAN VIEW AT BENT 2



SIDE VIEW AT BENTS 1 & 3



SIDE VIEW AT BENT 2

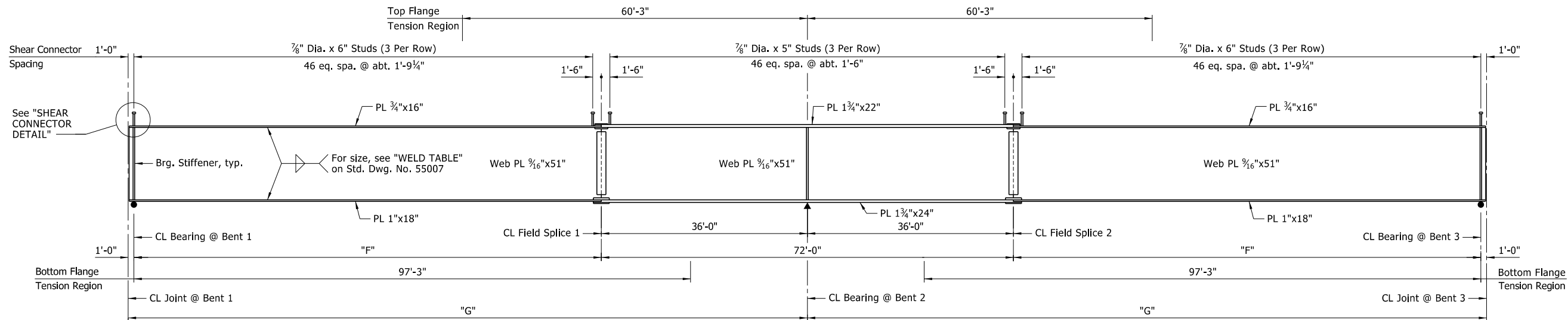
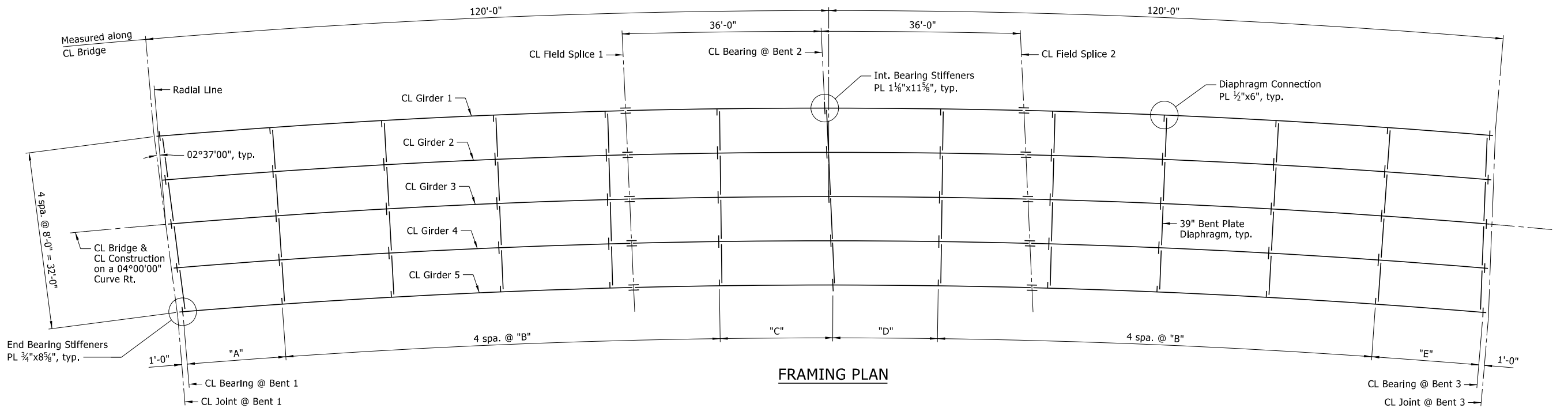


DETAILS OF ELASTOMERIC BEARINGS
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JCR DATE: 2/2024 FILENAME: b061741_e1
CHECKED BY: HRA DATE: 2/2024 SCALE: NONE
DESIGNED BY: CBM DATE: 2/2024

BRIDGE NO. 07680 DRAWING NO. 67323

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	100	136
		07680 -		240 FT. UNIT		- 67325



NOTES:
All structural steel shall be ASTM A709, Gr. 50 unless otherwise noted and shall be paid for as "STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50)". See Std. Dwg. Nos. 55006 and 55007 for additional notes and details.

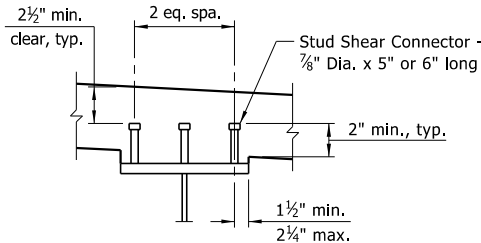
CL Joint and End of Girder are vertical, see Std. Dwg. No. 55008.

All girders are oriented along curves concentric with CL Bridge and CL Construction.

All diaphragms at bents shall be placed along the skew. All interior diaphragms shall be placed radial to the curve.

TABLE OF VARIABLES

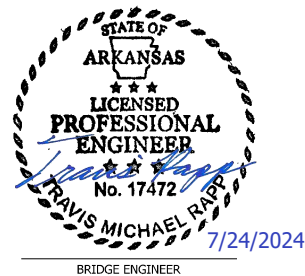
GIRDER NO.	RADIUS	"A"	"B"	"C"	"D"	"E"	"F"	"G"
1	1,448'-4 ³ / ₄ "	19'-11 ¹ / ₂ "	20'-2 ¹ / ₁₆ "	19'-5 ¹ / ₁₆ "	20'-11 ⁷ / ₁₆ "	18'-5 ⁷ / ₈ "	84'-4 ¹ / ₁₆ "	121'-4 ¹ / ₁₆ "
2	1,440'-4 ³ / ₄ "	19'-5 ⁷ / ₈ "	20'-1 ¹ / ₁₆ "	19'-8 ¹ / ₁₆ "	20'-5 ³ / ₄ "	18'-9 ¹ / ₁₆ "	83'-8 ¹ / ₁₆ "	120'-8 ¹ / ₁₆ "
3	1,432'-4 ³ / ₄ "	19'-0"	20'-0"	20'-0"	20'-0"	19'-0"	83'-0"	120'-0"
4	1,424'-4 ³ / ₄ "	18'-6 ¹ / ₁₆ "	19'-10 ³ / ₈ "	20'-3"	19'-6 ¹ / ₁₆ "	19'-3 ³ / ₈ "	82'-3 ¹ / ₁₆ "	119'-3 ¹ / ₁₆ "
5	1,416'-4 ³ / ₄ "	18'-0 ⁵ / ₈ "	19'-9 ¹ / ₁₆ "	20'-6 ¹ / ₁₆ "	19'-0 ¹ / ₁₆ "	19'-6 ¹ / ₈ "	81'-7 ¹ / ₁₆ "	118'-7 ¹ / ₁₆ "



Place Stud Shear Connectors as shown. Stud Shear Connectors shall be automatically end welded to the girder flange in accordance with the recommendations of the Manufacturer. See "GIRDER ELEVATION" for spacing.

SHEAR CONNECTOR DETAIL

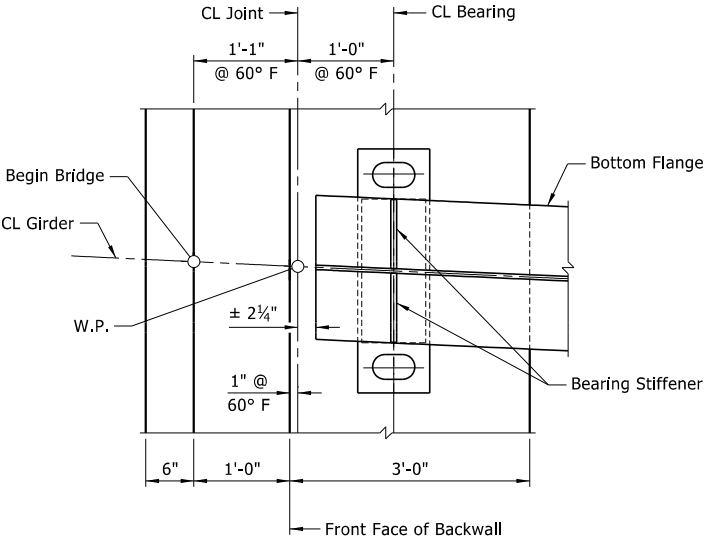
Looking Ahead Station



SHEET 2 OF 5
DETAILS OF 240'-0" CONTINUOUS
PLATE GIRDER UNIT
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: TLW DATE: 1/2024 FILENAME: b061741_s2
CHECKED BY: HRA DATE: 2/2024 SCALE: NO SCALE
DESIGNED BY: CBM DATE: 1/2024
BRIDGE NO. 07680 DRAWING NO. 67325

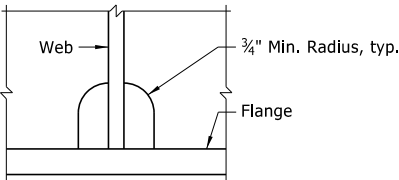
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	101	136
		07680 -		240 FT. UNIT		- 67326

- NOTES:
Bearing Stiffeners shall be fabricated to be plumb in their final positions.
Bearing Stiffeners and Diaphragms at Bents are oriented along the skew.
Interior Diaphragms are placed radial to the curve.
- ① For size, see "WELD TABLE" on Std. Dwg. No. 55007.
② Omit holes in bearing stiffeners on the outside face of exterior girders. For location of Diaphragms, see "FRAMING PLAN" on Dwg. No. 67325.
③ Vertical placement of Bent Plate measured at CL Girder.
④ If permanent deck forms are used, the Fabricator shall clip the plate as necessary to accomodate the deck form supports.



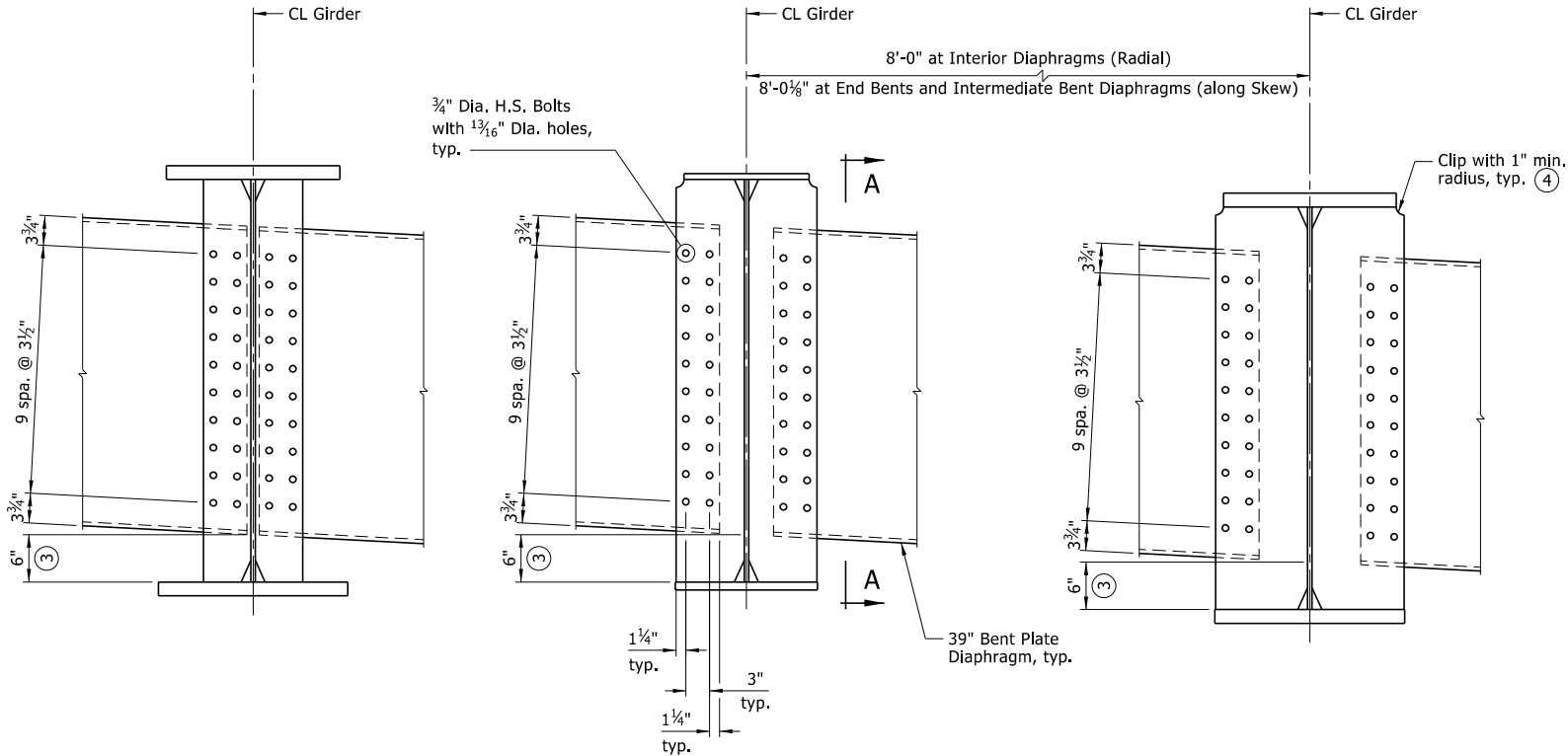
BEARING PLAN AT END BENT

Bent 1 Shown, Bent 3 Similar
Scale: 1" = 1'-0"



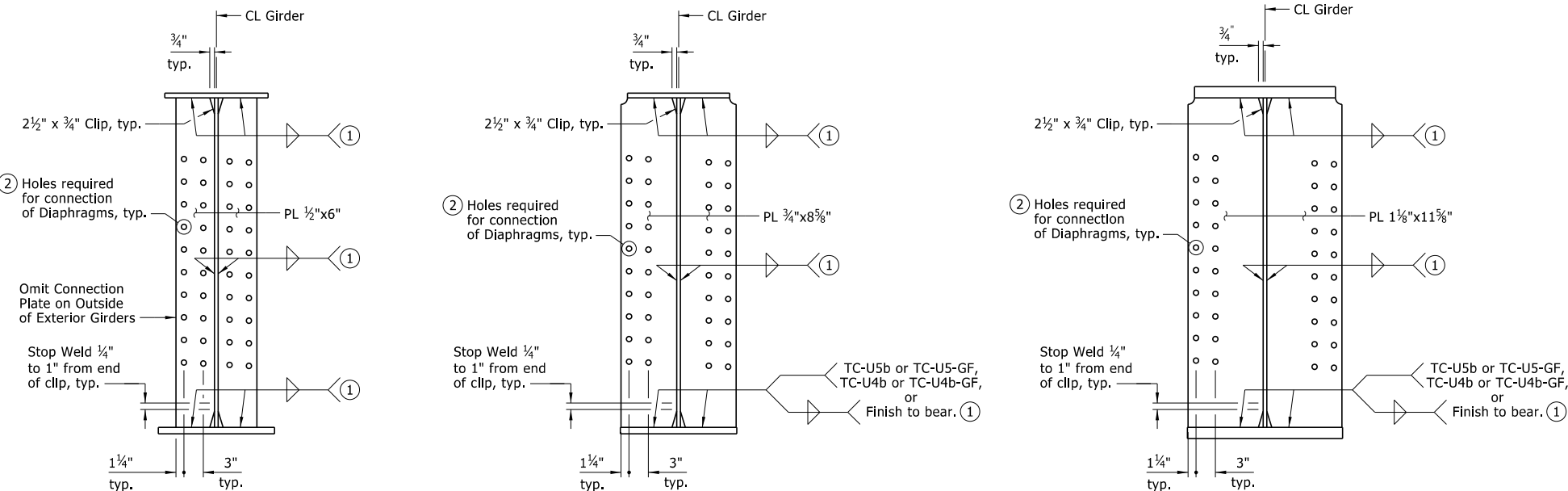
ALTERNATE CLIP DETAIL

For Bearing Stiffeners and Connection Plates
No Scale



DIAPHRAGM CONNECTION DETAIL

Scale: 1" = 1'-0"



DIAPHRAGM CONNECTION PLATE

Scale: 1" = 1'-0"

BEARING STIFFENER

AT END BENTS

Looking Perpendicular to Stiffener
Scale: 1" = 1'-0"

BEARING STIFFENER

AT INTERMEDIATE BENT

Looking Perpendicular to Stiffener
Scale: 1" = 1'-0"



SHEET 3 OF 5
DETAILS OF 240'-0" CONTINUOUS
PLATE GIRDER UNIT

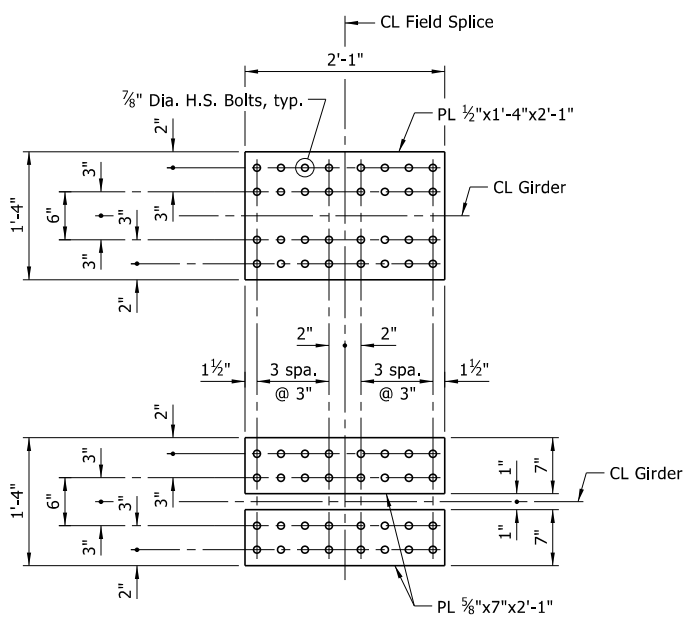
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 1/2024 FILENAME: b061741_s3
CHECKED BY: HRA DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: CBM DATE: 1/2024

BRIDGE NO. 07680

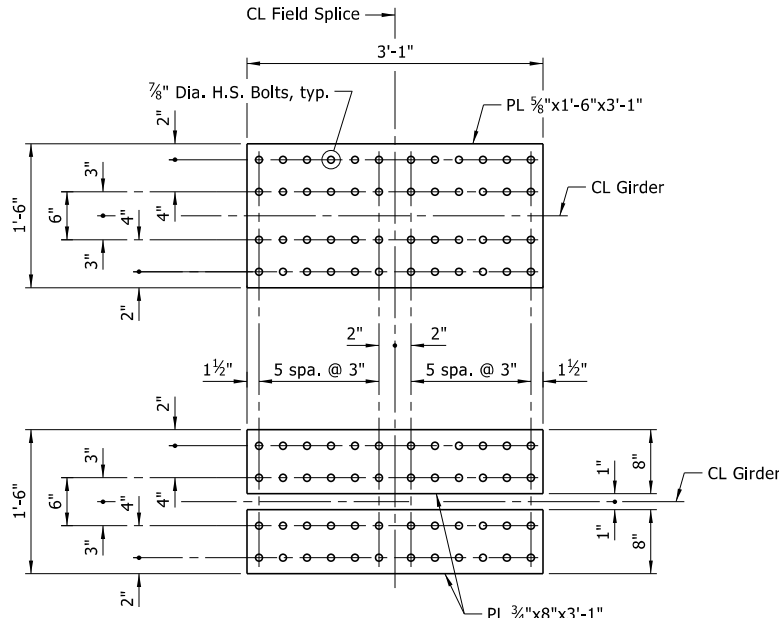
DRAWING NO. 67326

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	102	136
		07680 -		240 FT. UNIT		- 67327



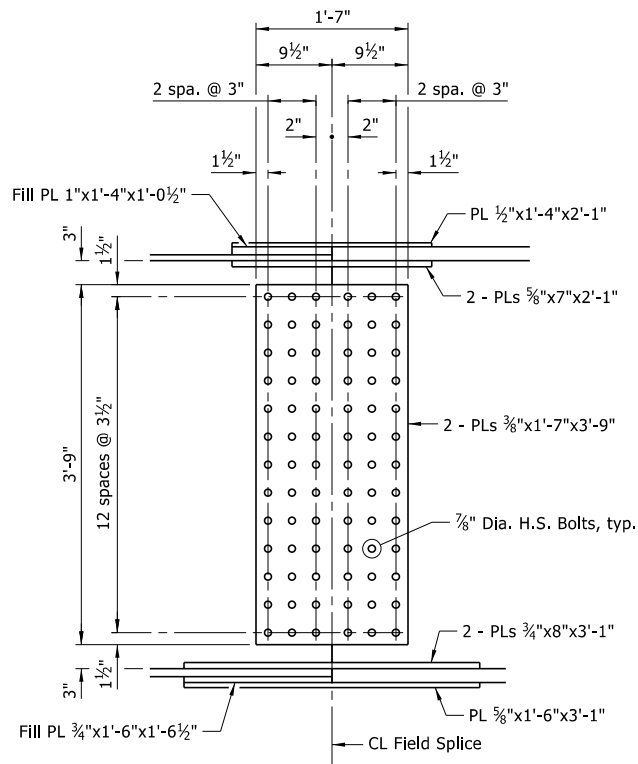
TOP FLANGE FIELD SPLICE

Scale: 1" = 1'-0"



BOTTOM FLANGE FIELD SPLICE

Scale: 1" = 1'-0"



DETAILS OF FIELD SPLICE

Scale: 1" = 1'-0"

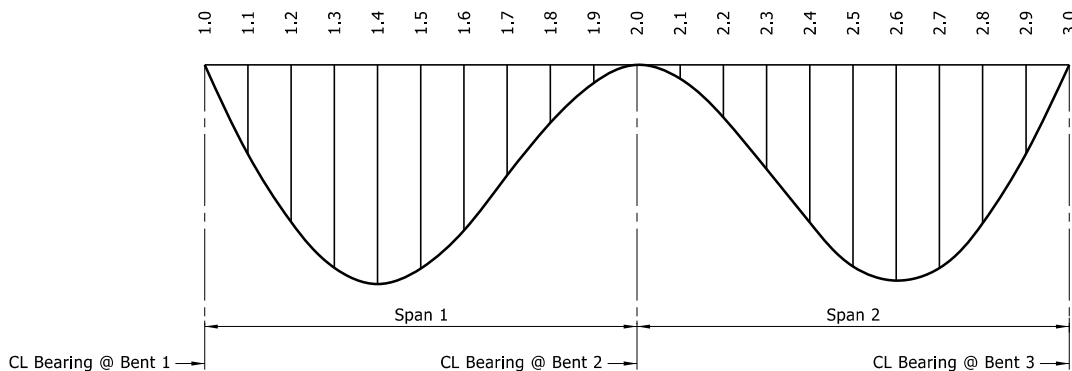
NOTES:

All field splice bolts shall be 7/8" Dia. H.S. Bolts.

All holes for splice bolts shall be 1 5/16" Dia.

All field splice plates shall be ASTM A709, Gr. 50 steel.

Bolted field splices may be eliminated or shop welded splices may be substituted with the approval of the Engineer. Payment will be made on the basis of plan quantities.



DEAD LOAD DEFLECTION DIAGRAM

No Scale

NOTES:

Camber for dead load deflection plus vertical curve $\pm 1/4$ " tolerance. Deflections shown are along CL Girder from the plane perpendicular to the web extending from CL Bearing to CL Bearing. Vertical curve corrections not included. Negative sign (-) indicates point above plane.

Dead load deflections shown include a non-composite loading of 18.0 psf for additional weight associated with the use of stay-in-place metal deck forms. Revisions to the table may be necessary upon review of the Contractor's submitted forming details.

TABLE OF DEAD LOAD DEFLECTIONS (INCHES)

	GIRDER NO.	GIRDER 1			GIRDER 2			GIRDER 3			GIRDER 4			GIRDER 5		
		STRUCTURAL STEEL	STRUCTURAL STEEL + SLAB	STRUCTURAL STEEL + SLAB + RAIL	STRUCTURAL STEEL	STRUCTURAL STEEL + SLAB	STRUCTURAL STEEL + SLAB + RAIL	STRUCTURAL STEEL	STRUCTURAL STEEL + SLAB	STRUCTURAL STEEL + SLAB + RAIL	STRUCTURAL STEEL	STRUCTURAL STEEL + SLAB	STRUCTURAL STEEL + SLAB + RAIL	STRUCTURAL STEEL	STRUCTURAL STEEL + SLAB	STRUCTURAL STEEL + SLAB + RAIL
SPAN 1	1.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1.1	0.203	0.911	0.983	0.196	0.886	0.954	0.189	0.854	0.918	0.181	0.808	0.869	0.171	0.749	0.808
	1.2	0.357	1.596	1.723	0.345	1.553	1.673	0.333	1.498	1.612	0.319	1.420	1.528	0.303	1.320	1.424
	1.3	0.461	2.056	2.221	0.446	2.002	2.158	0.431	1.932	2.080	0.414	1.834	1.975	0.395	1.710	1.845
	1.4	0.501	2.223	2.403	0.485	2.163	2.333	0.469	2.086	2.247	0.450	1.980	2.134	0.429	1.847	1.994
	1.5	0.466	2.057	2.226	0.453	2.003	2.162	0.439	1.936	2.087	0.423	1.841	1.986	0.404	1.721	1.860
	1.6	0.381	1.671	1.811	0.373	1.634	1.766	0.362	1.581	1.706	0.349	1.502	1.622	0.333	1.403	1.518
	1.7	0.256	1.108	1.203	0.253	1.096	1.186	0.248	1.067	1.153	0.239	1.016	1.098	0.230	0.951	1.030
	1.8	0.137	0.587	0.639	0.138	0.590	0.639	0.135	0.575	0.622	0.130	0.544	0.589	0.124	0.507	0.550
	1.9	0.044	0.182	0.199	0.046	0.194	0.211	0.046	0.193	0.209	0.045	0.185	0.200	0.044	0.174	0.189
SPAN 2	2.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	2.1	0.033	0.140	0.152	0.034	0.144	0.156	0.034	0.143	0.155	0.033	0.138	0.149	0.032	0.130	0.141
	2.2	0.125	0.534	0.581	0.126	0.541	0.586	0.124	0.530	0.573	0.120	0.504	0.545	0.115	0.471	0.511
	2.3	0.241	1.045	1.135	0.240	1.040	1.126	0.235	1.015	1.097	0.228	0.970	1.049	0.219	0.909	0.985
	2.4	0.362	1.584	1.717	0.355	1.555	1.681	0.346	1.510	1.630	0.335	1.438	1.553	0.320	1.344	1.455
	2.5	0.458	2.024	2.191	0.447	1.979	2.137	0.435	1.919	2.069	0.420	1.830	1.974	0.402	1.712	1.851
	2.6	0.491	2.182	2.359	0.477	2.125	2.292	0.462	2.053	2.212	0.444	1.952	2.104	0.425	1.824	1.970
	2.7	0.462	2.062	2.228	0.447	2.007	2.163	0.432	1.937	2.085	0.415	1.839	1.981	0.396	1.718	1.854
	2.8	0.360	1.609	1.737	0.347	1.566	1.687	0.335	1.510	1.625	0.322	1.433	1.543	0.307	1.336	1.441
	2.9	0.201	0.901	0.973	0.194	0.879	0.946	0.188	0.849	0.913	0.180	0.806	0.867	0.172	0.752	0.811
	3.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



SHEET 4 OF 5
DETAILS OF 240'-0" CONTINUOUS
PLATE GIRDER UNIT

ROUTE SEC.

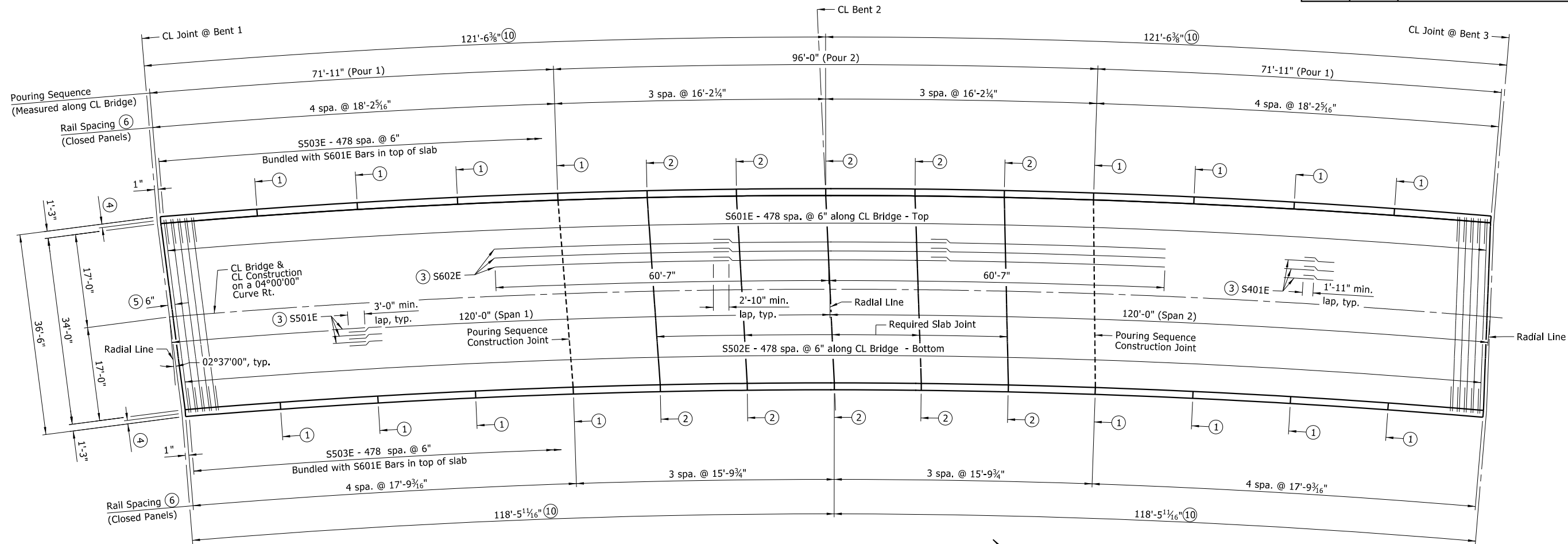
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TLW DATE: 1/2024 FILENAME: b061741_s4
CHECKED BY: HRA DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: CBM DATE: 1/2024

BRIDGE NO. 07680

DRAWING NO. 67327

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	103	136
		07680 -		240 FT. UNIT		- 67328



SLAB PLAN & DECK POURING SEQUENCE

No Scale

TABLE OF VARIABLES ⑥

CLOSED RAIL PANELS			
PANEL LENGTH	A	R4XXE	
15'-9 3/4"	31	R404E	
16'-2 1/4"	32	R405E	
17'-9 3/16"	35	R406E	
18'-2 3/16"	36	R407E	
12'-0"	23	R408E	
16'-0"	31	R409E	

TABLE OF SILICONE JOINT DATA ⑫

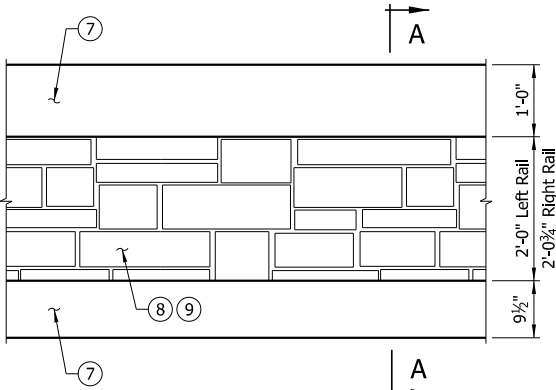
BENT NUMBER	"A" WIDTH PERPENDICULAR TO JOINT AT 24 HOUR AVERAGE TEMPERATURE ⑪ OF:			"B" PERPENDICULAR TO JOINT AT 60°F	BUMPER PLATE SIZE
	40°F	60°F	80°F		
1 & 3	2 3/16"	2"	1 13/16"	±2 1/4"	1" x 1"

⑪ The temperature used to set the joint opening shall be the approximate average air temperature during the 24 hour period immediately before the bolts are tightened. The Engineer shall establish the temperature. Interpolation of the table may be necessary.

⑫ For Expansion Joint Details, See Std. Dwg. No. 55008.

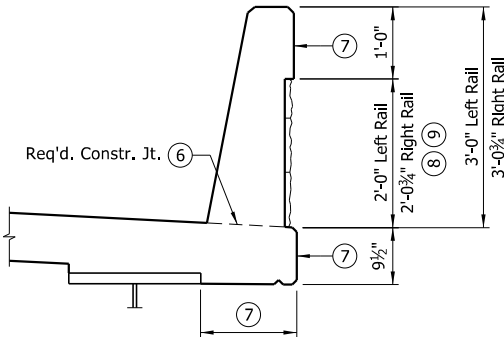
BAR LIST

MARK	NO. REQ'D.	LENGTH	P.D.	BENDING DIAGRAMS
⑥ R401E	974	6'-4"	3"	Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated.
R402E	64	5'-6"	Str.	
⑥ R403E	974	3'-6"	3 3/4"	
R404E	48	15'-5"	Str.	
R405E	48	15'-10"	Str.	
R406E	64	17'-5"	Str.	
R407E	64	17'-10"	Str.	
S401E	222	42'-1"	Str.	
S501E	250	51'-0"	Str.	
S502E	479	36'-2"	Str.	
S503E	958	3'-8"	Str.	
S601E	479	37'-6"	4 1/2"	
S602E	108	42'-4"	Str.	



PANEL ELEVATION

Scale: 3/4" = 1'-0"



SECTION A-A

Scale: 3/4" = 1'-0"

NOTES:
Rail spacing measured along gutterline.

Required slab joints and pouring sequence construction joints shall align with rail joints at base of rail.

All longitudinal lines and longitudinal reinforcing steel shall be placed on curves concentric with CL Bridge.

All transverse reinforcing steel shall be placed along the skew to radial lines at CL Bridge.

Pours with the same number may be placed simultaneously or separately. All Pour(s) 1 must be placed before Pour(s) 2 can be placed. A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between adjacent pours.

Concrete in bridge superstructure shall be placed, consolidated and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

A minimum of 72 hours shall elapse between completion of the slab and the pouring of the bridge railing. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer.

No deviations from the pouring sequence shown will be allowed.



SHEET 5 OF 5
DETAILS OF 240'-0" CONTINUOUS
PLATE GIRDER UNIT

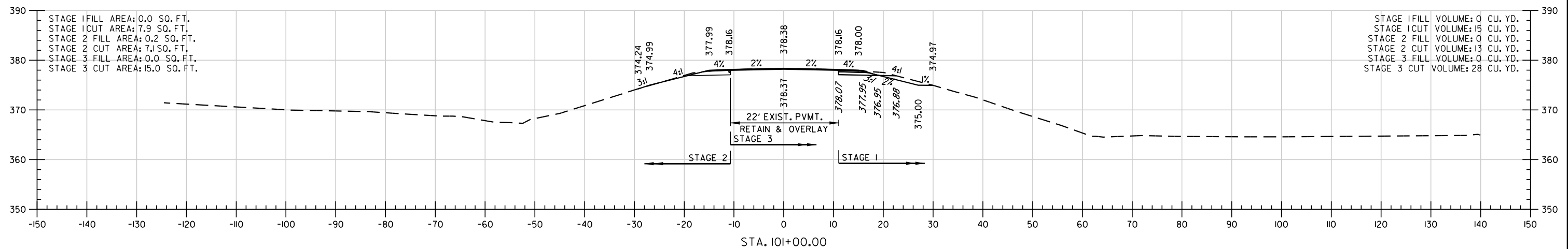
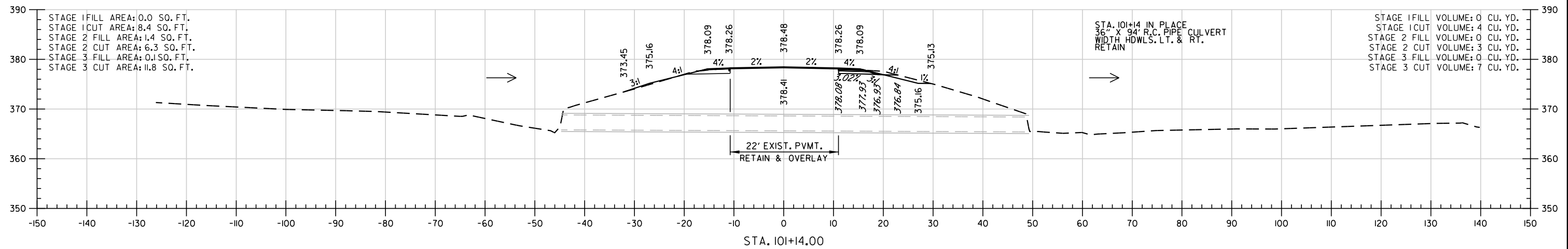
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TWM DATE: 1/2024 FILENAME: b061741_s5
CHECKED BY: HRA DATE: 2/2024 SCALE: AS SHOWN
DESIGNED BY: CBM DATE: 1/2024

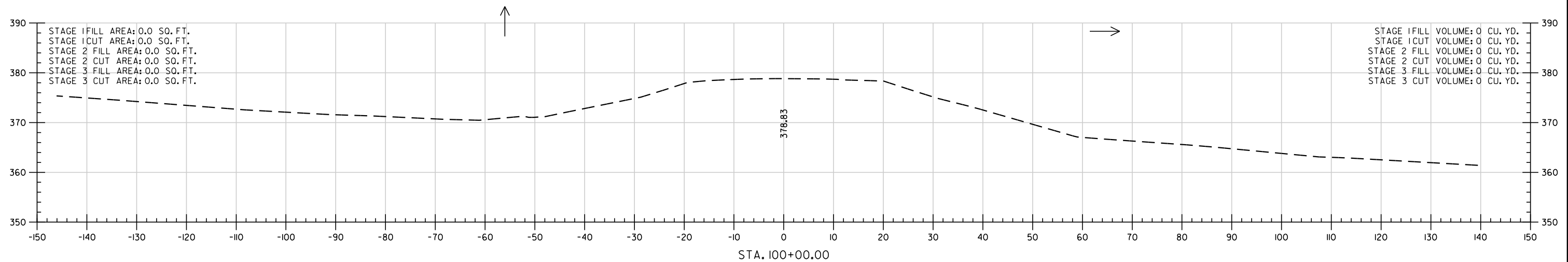
BRIDGE NO. 07680

DRAWING NO. 67328

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	104	136
CROSS SECTIONS						

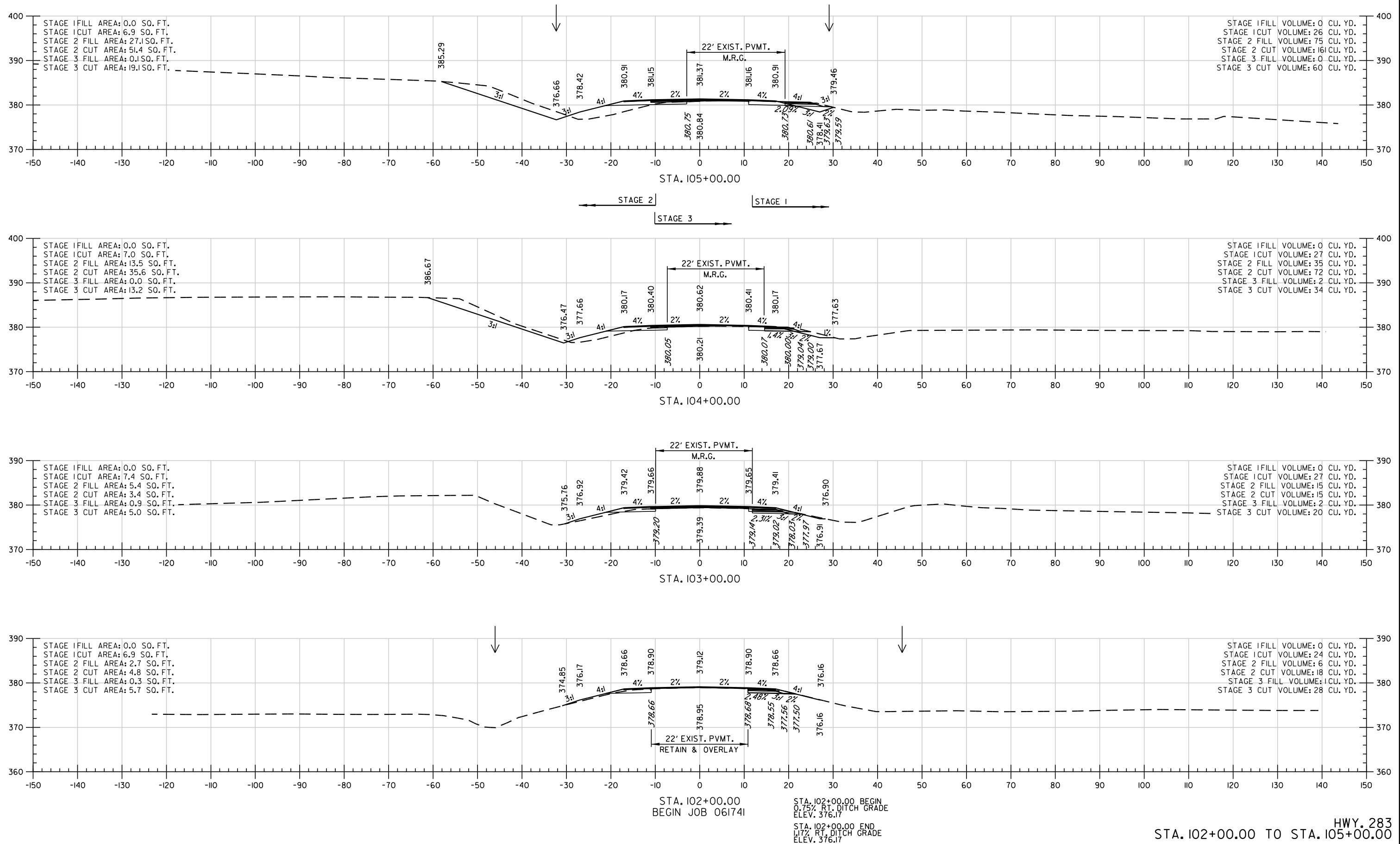


STA. 101+00.00 BEGIN
1.17% RT. DITCH GRADE
ELEV. 375.00

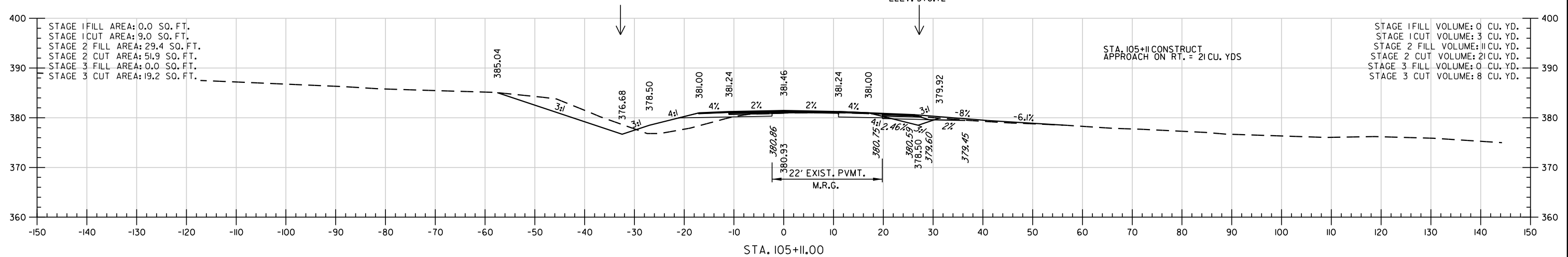
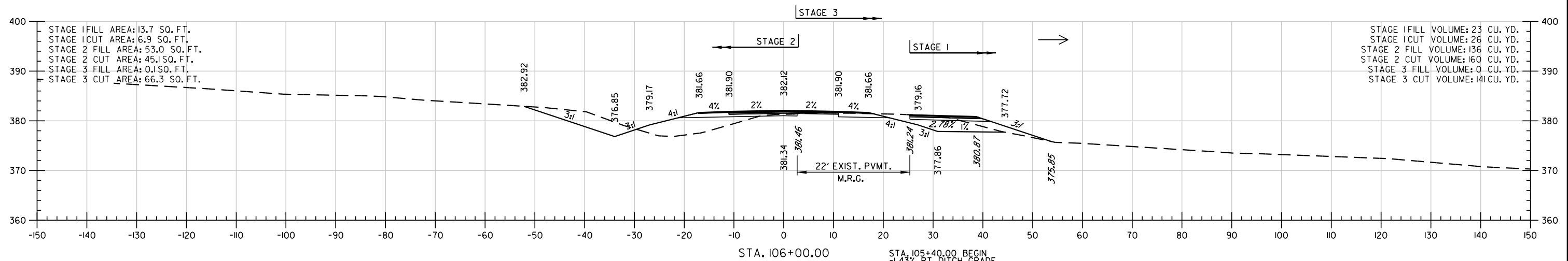
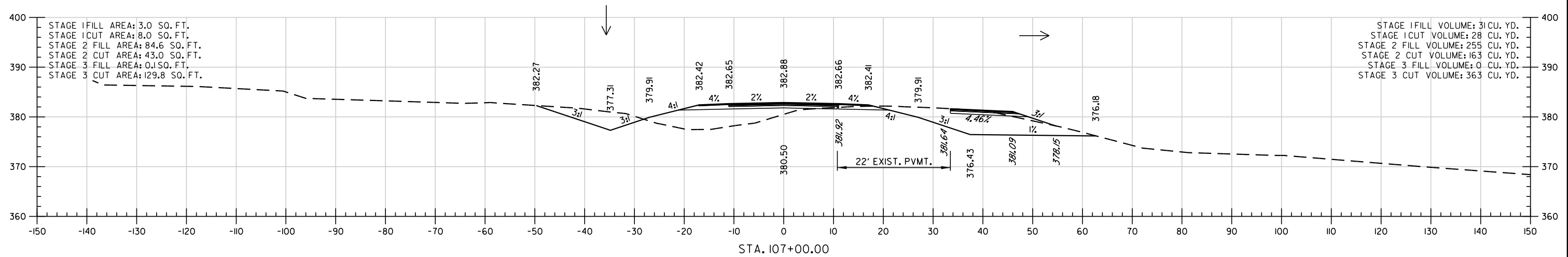


HWY. 283
STA. 100+00.00 TO STA. 101+4.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	105	136
CROSS SECTIONS						

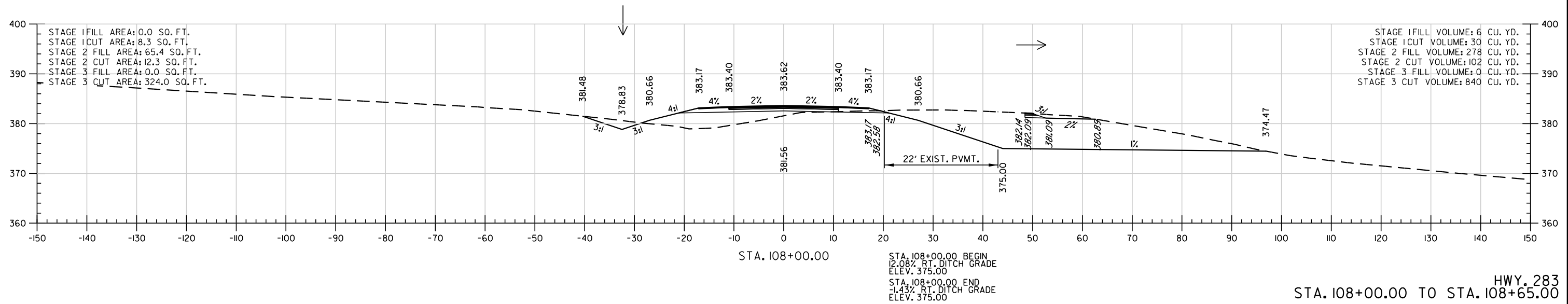
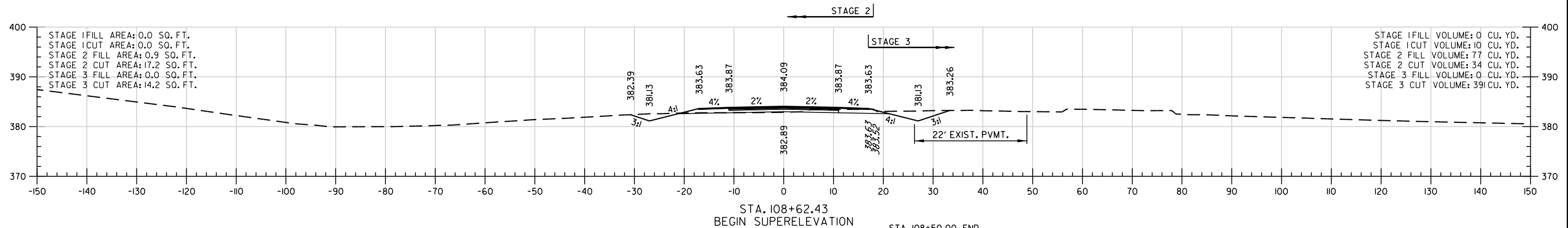
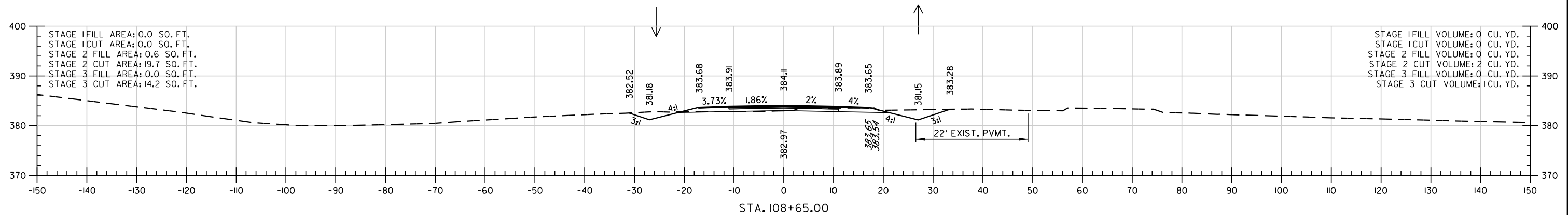


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	106	136
CROSS SECTIONS						

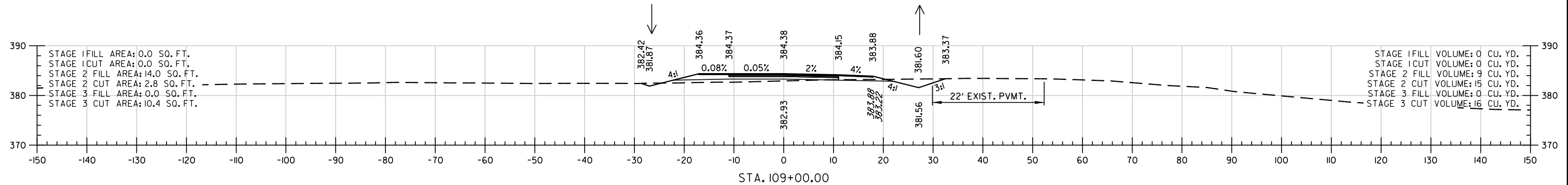
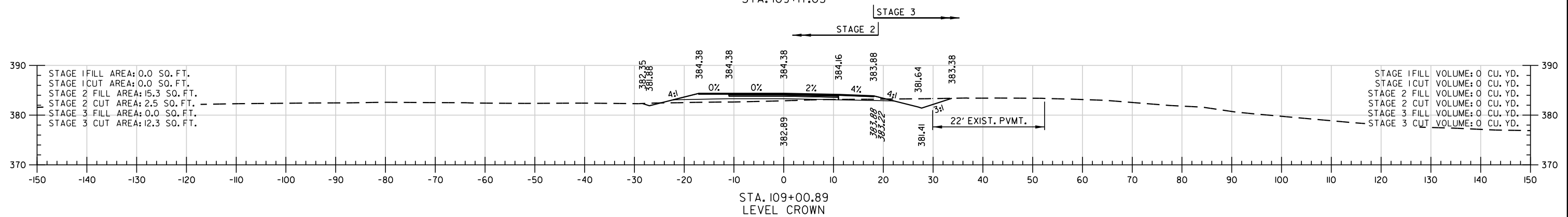
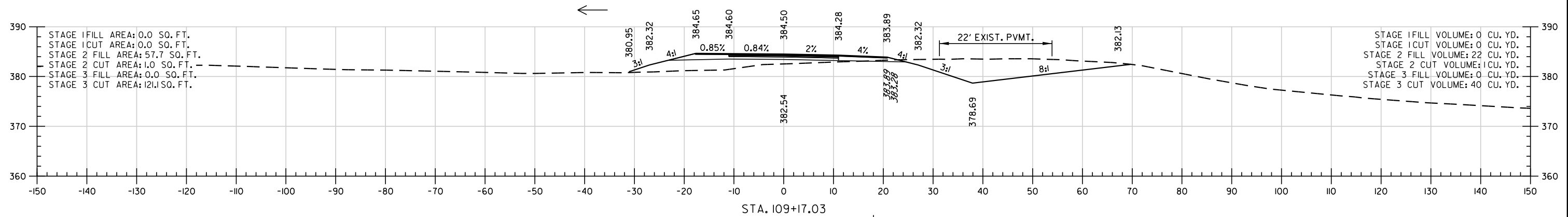
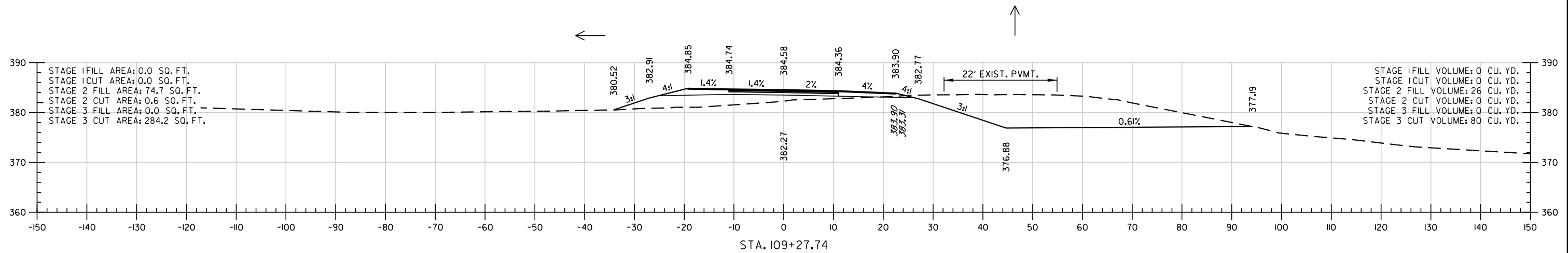


HWY. 283
STA. 105+11.00 TO STA. 107+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	107	136
CROSS SECTIONS						



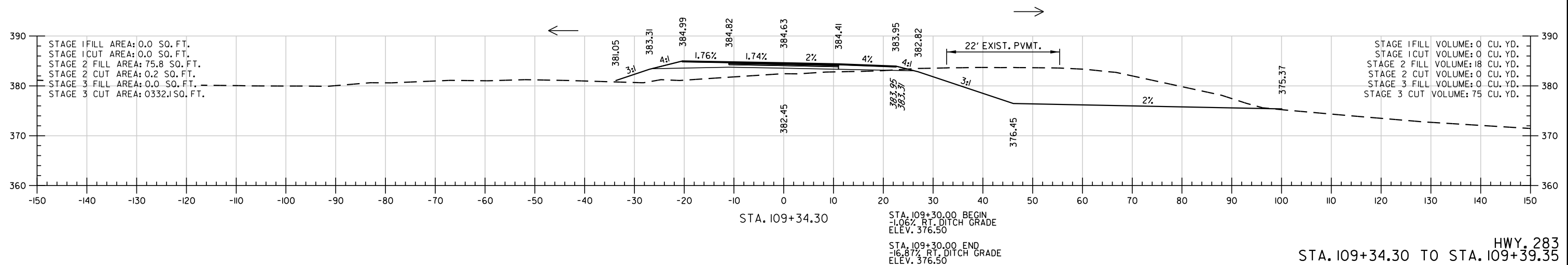
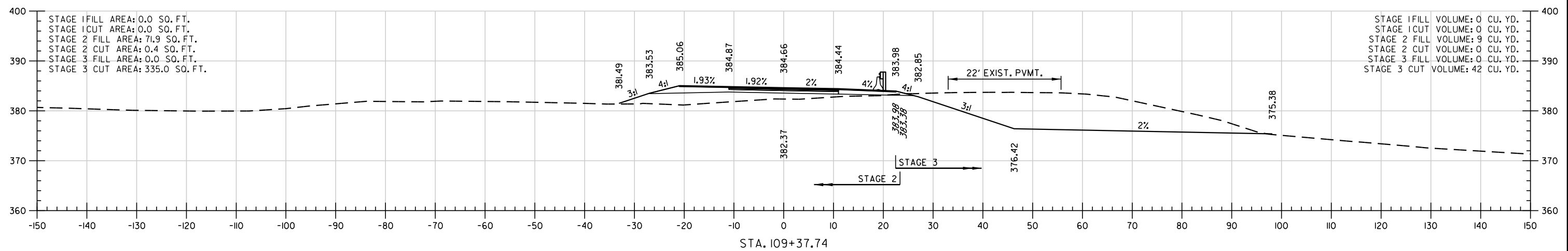
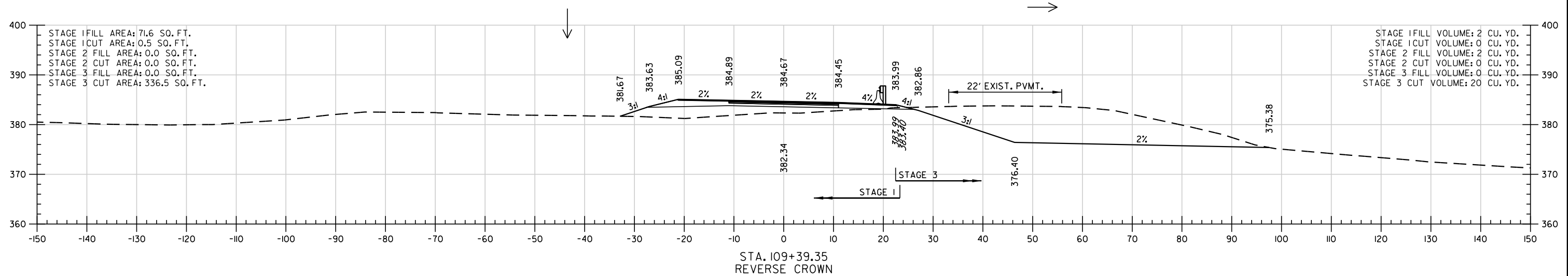
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	108	136
CROSS SECTIONS						



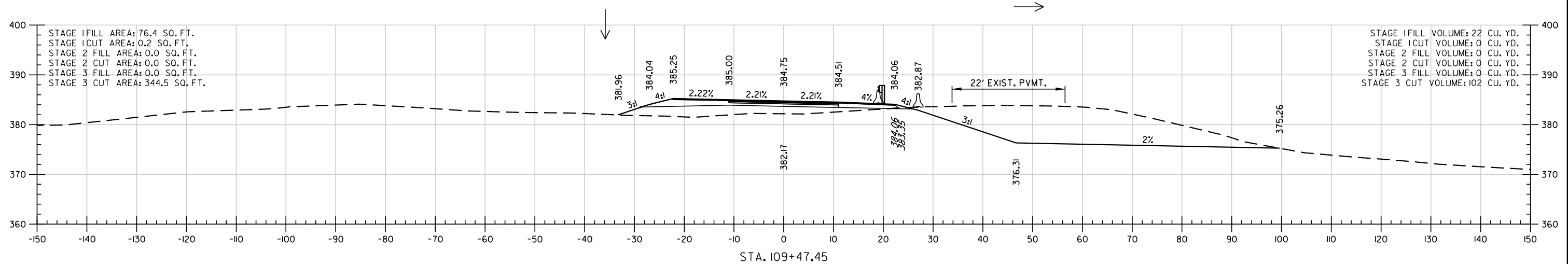
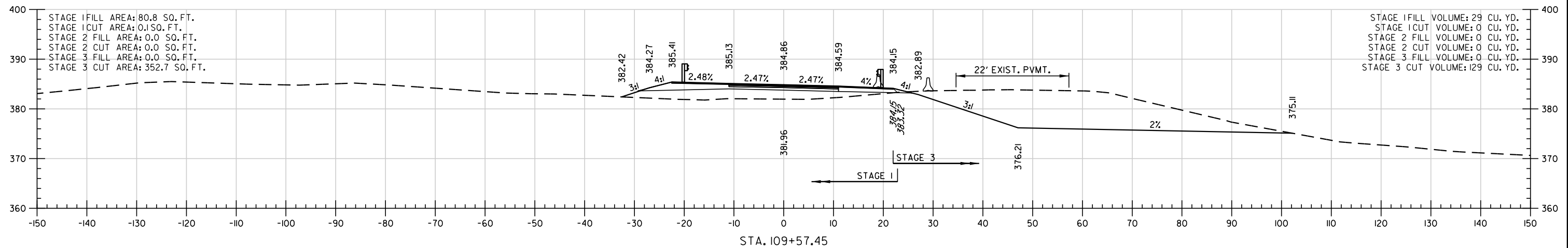
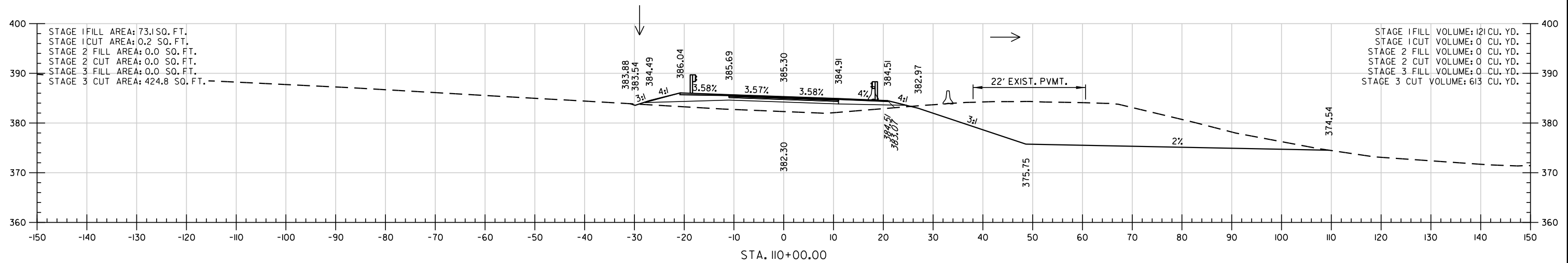
STA. 109+00.00 BEGIN
-16.87% RT. DITCH GRADE
ELEV. 381.56

HWY. 283
STA. 109+00.00 TO STA. 109+27.74

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	109	136
CROSS SECTIONS						

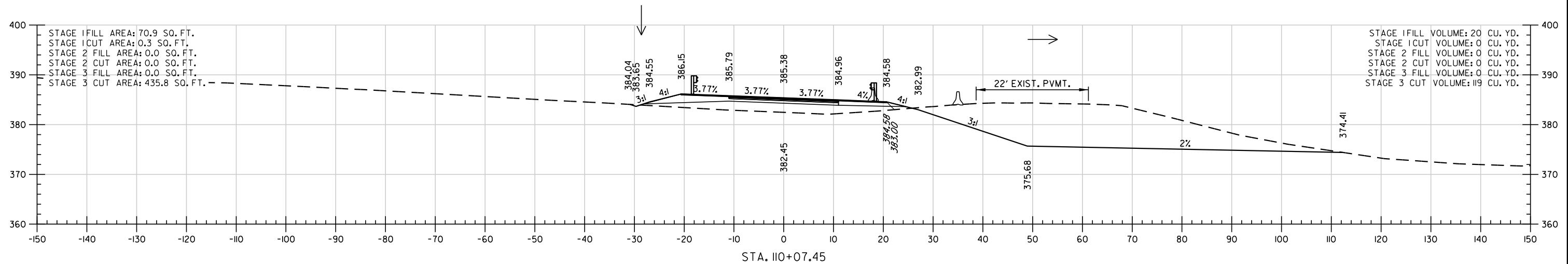
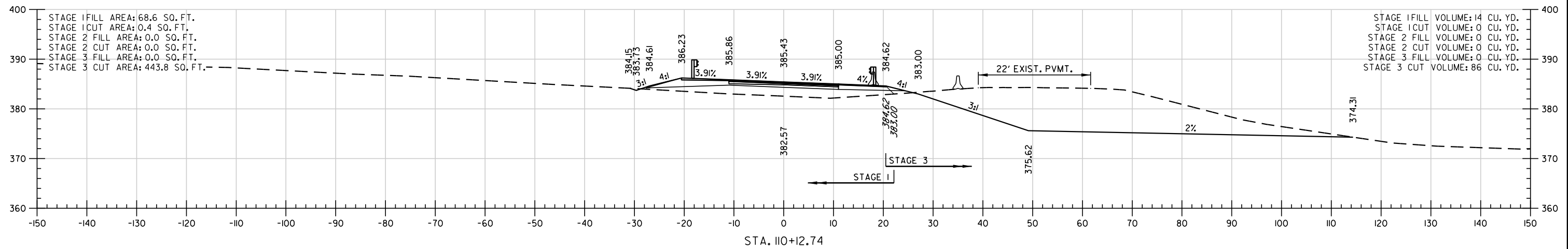
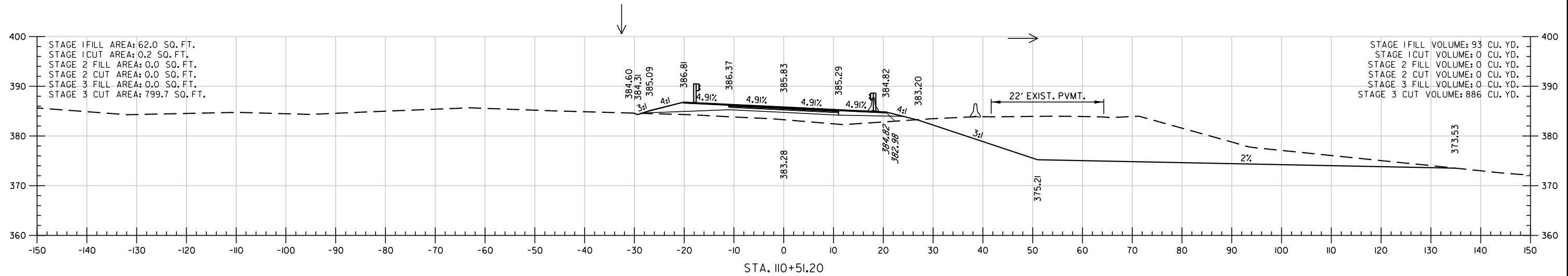


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	110	136
CROSS SECTIONS						



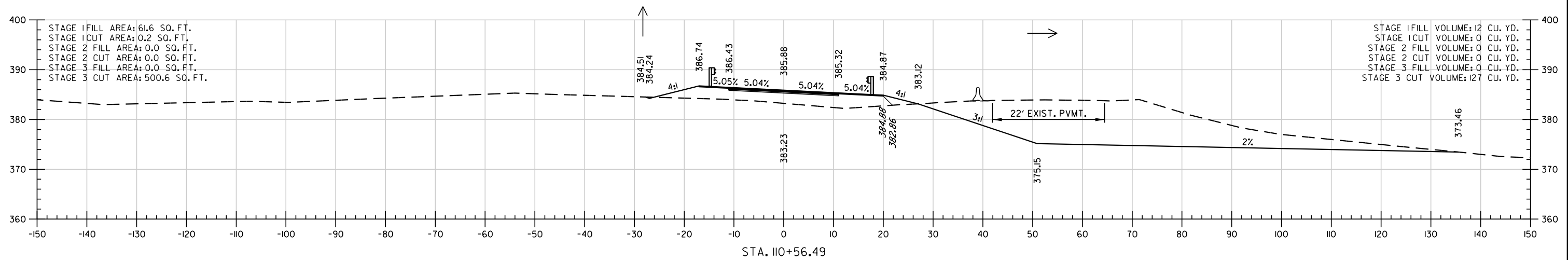
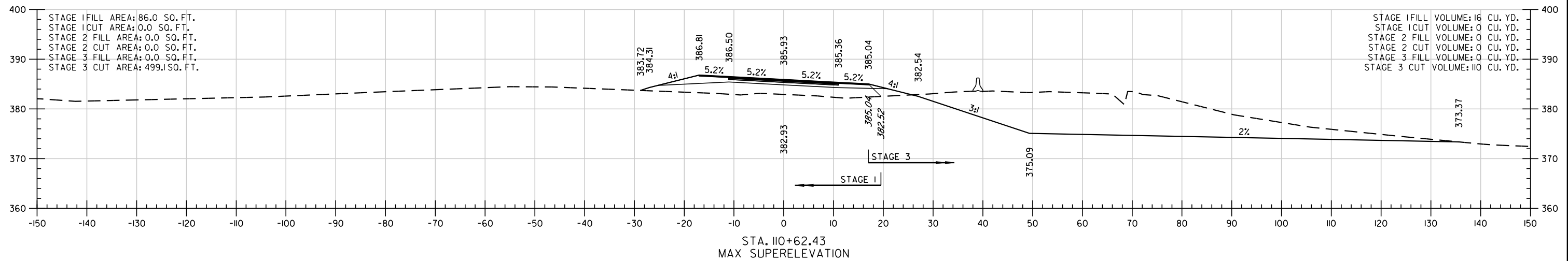
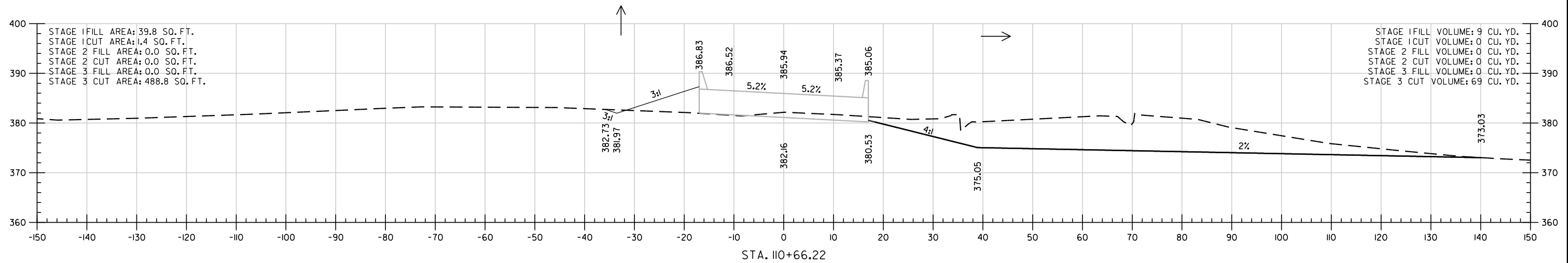
HWY. 283
STA. 109+47.45 TO STA. 110+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	III	136
CROSS SECTIONS						



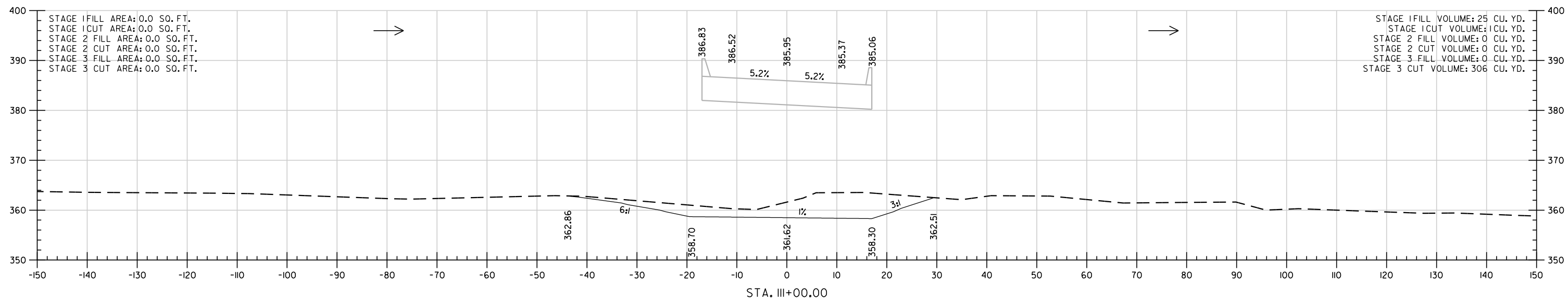
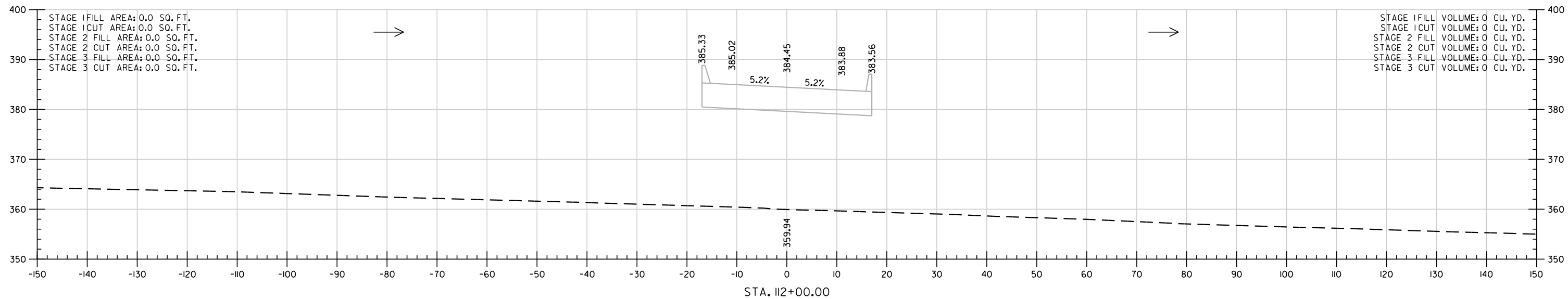
HWY. 283
STA. 110+07.45 TO STA. 110+51.20

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	112	136
CROSS SECTIONS						



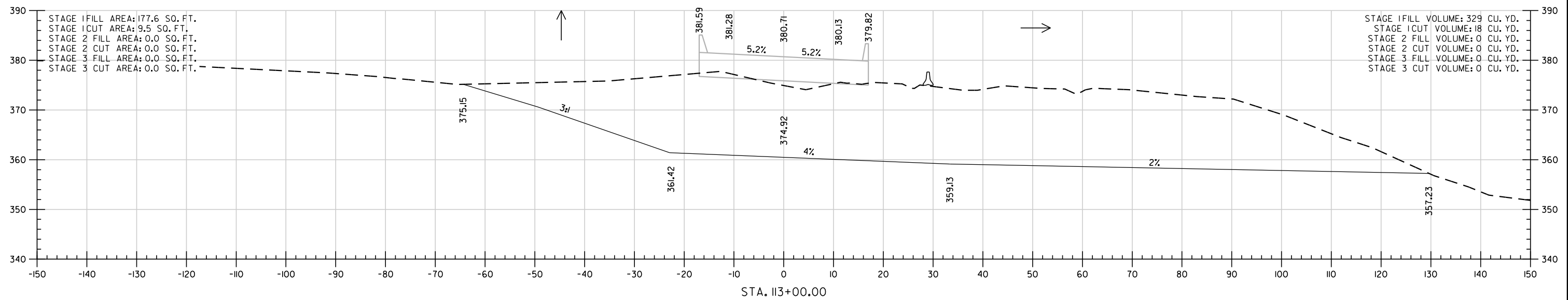
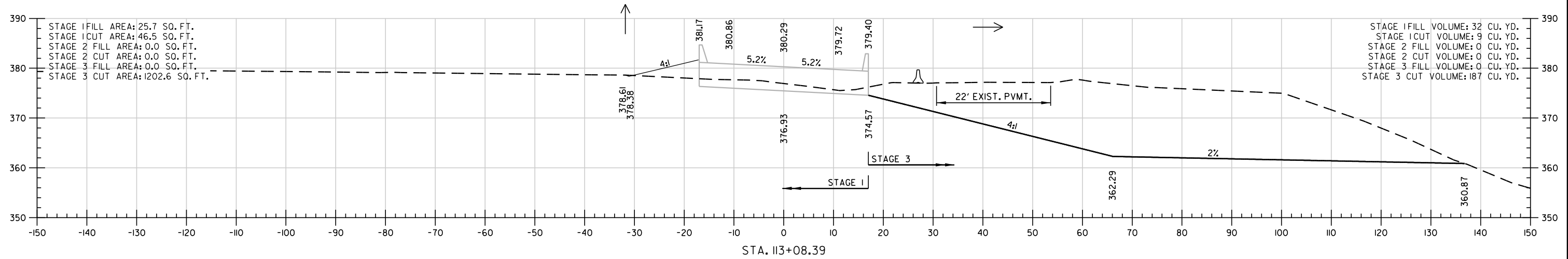
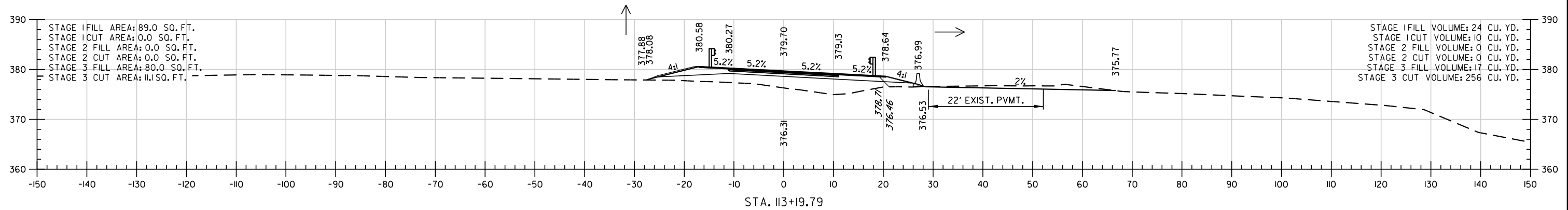
HWY. 283
STA. 110+56.49 TO STA. 110+66.22

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	113	136
CROSS SECTIONS						



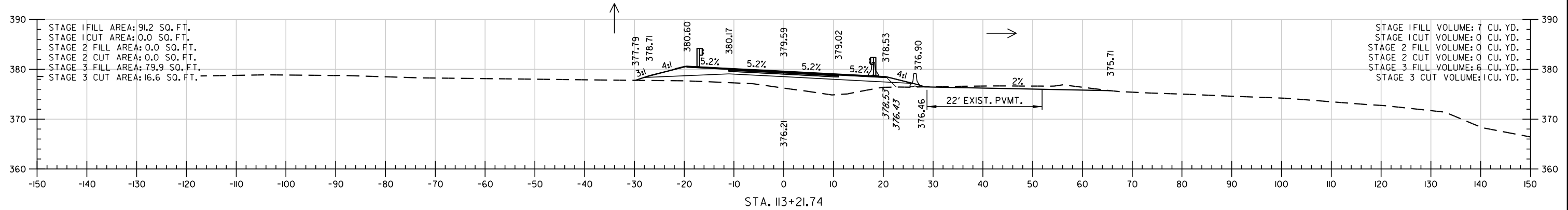
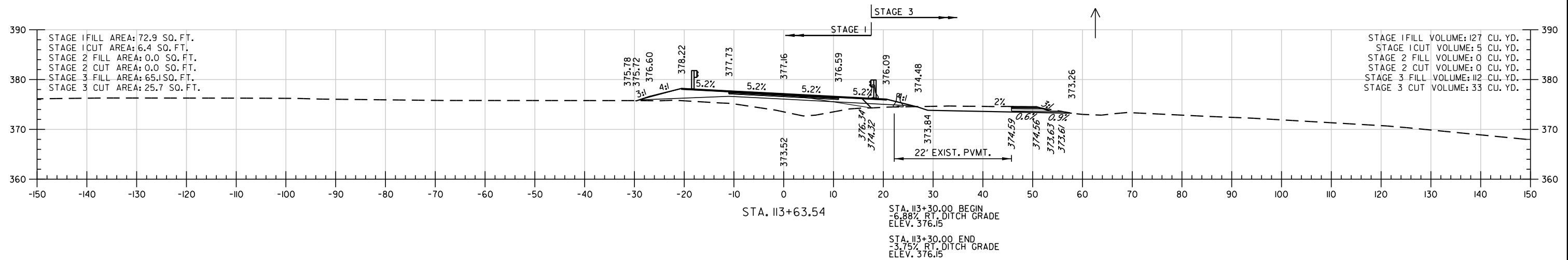
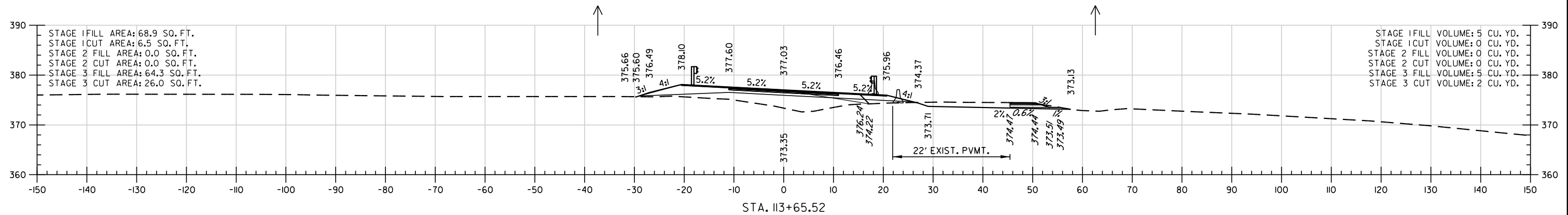
HWY. 283
STA. 113+00.00 TO STA. 112+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	114	136
CROSS SECTIONS						



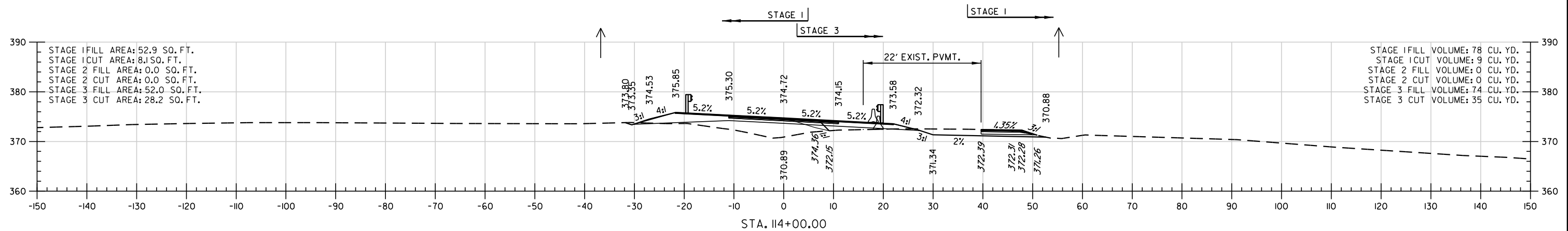
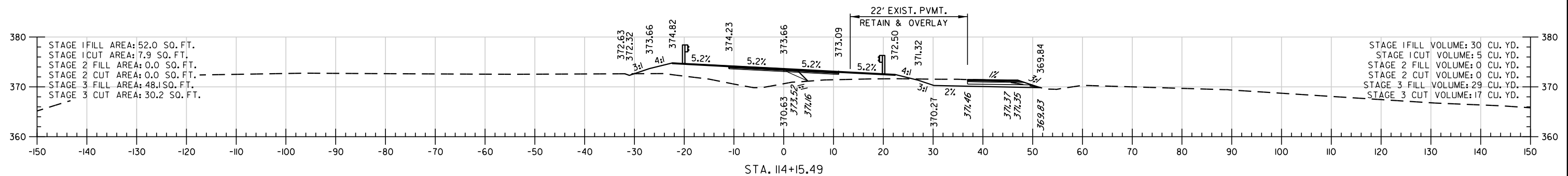
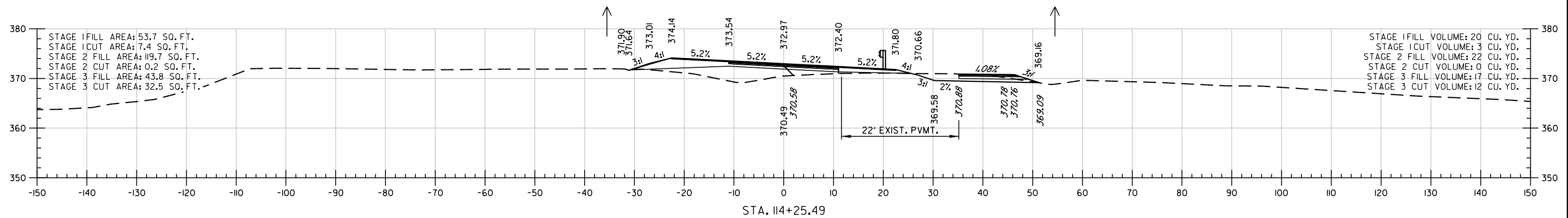
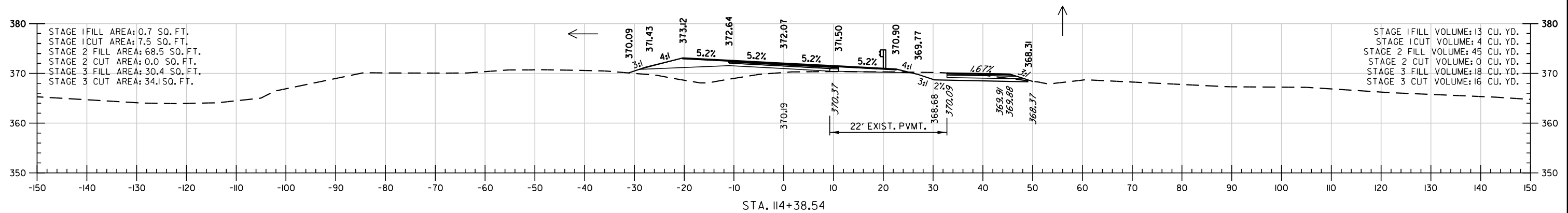
HWY. 283
STA. 113+00.00 TO STA. 113+19.79

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	115	136
CROSS SECTIONS						

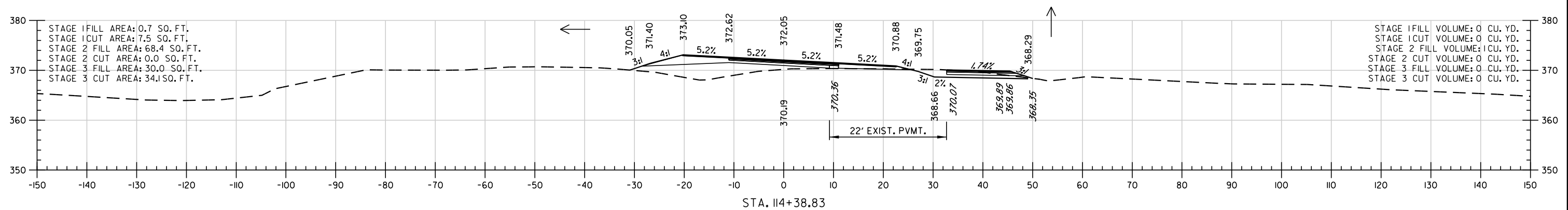
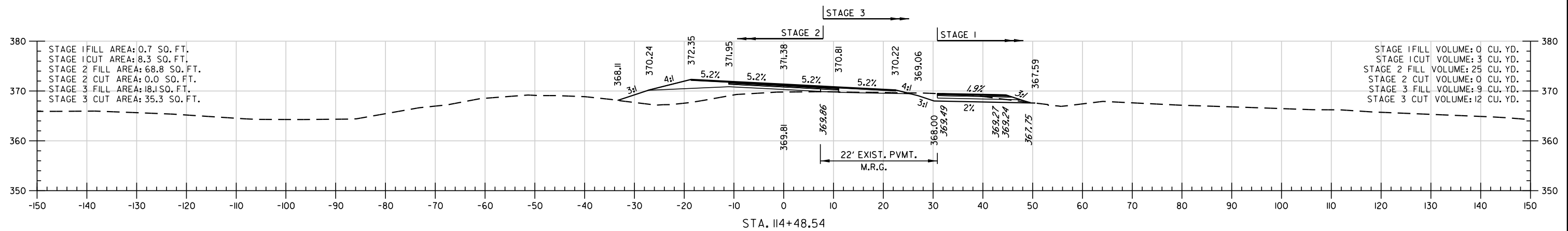
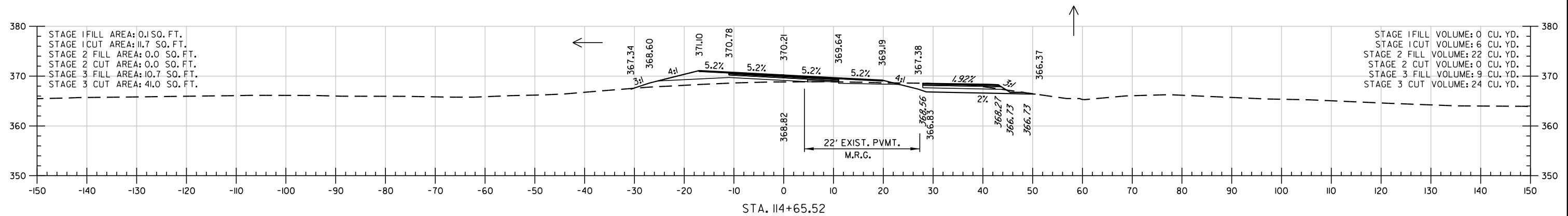


HWY. 283
STA. 113+21.74 TO STA. 113+65.52

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	116	136
CROSS SECTIONS						

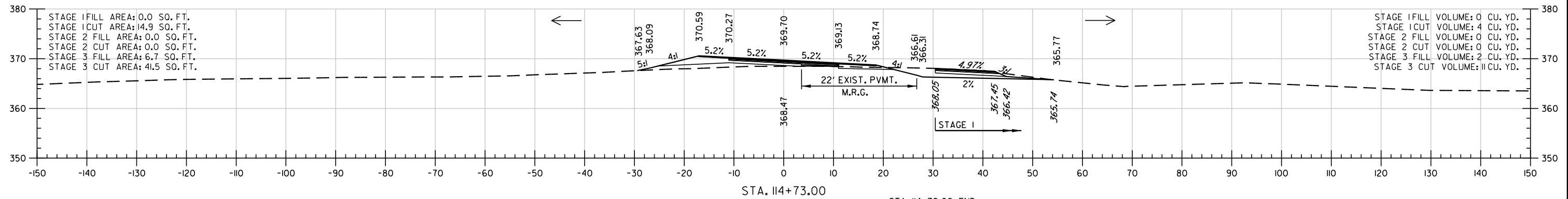
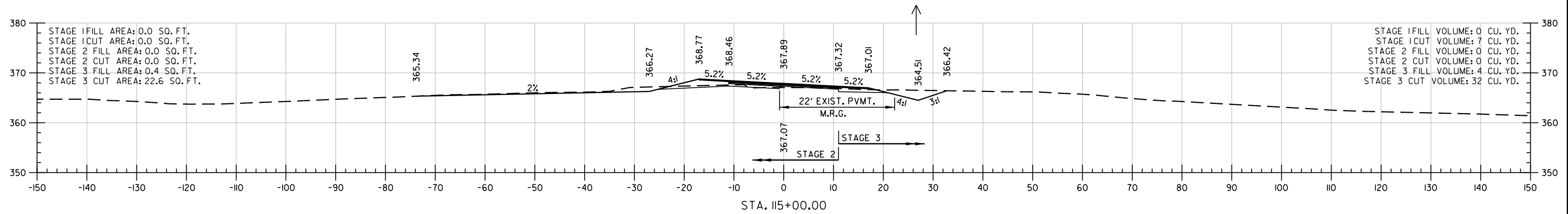
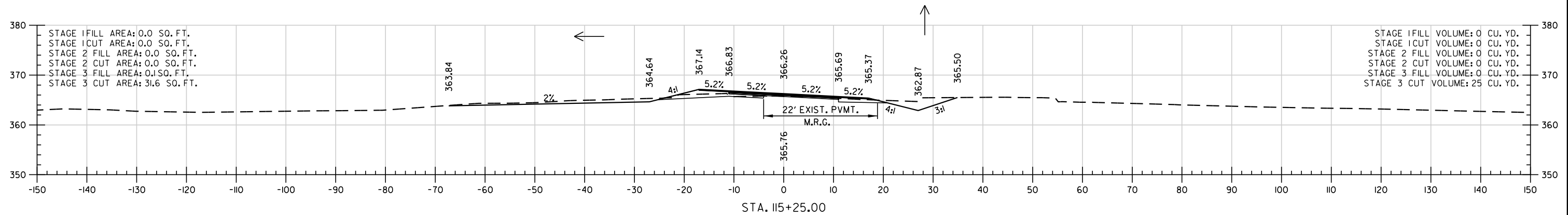


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	117	136
CROSS SECTIONS						



HWY. 283
STA. 114+38.83 TO STA. 114+65.52

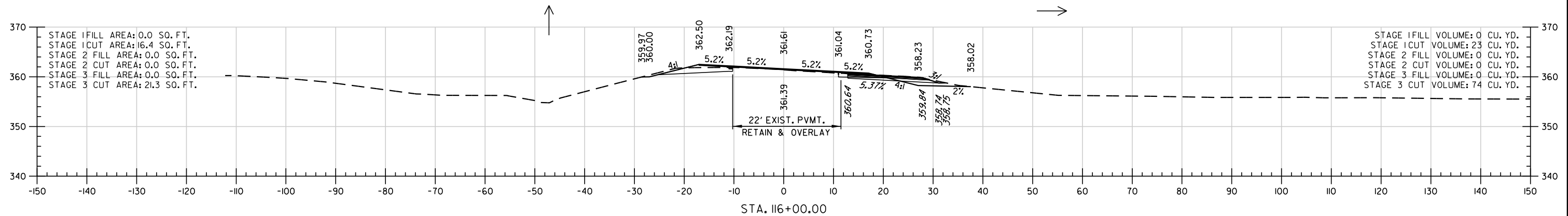
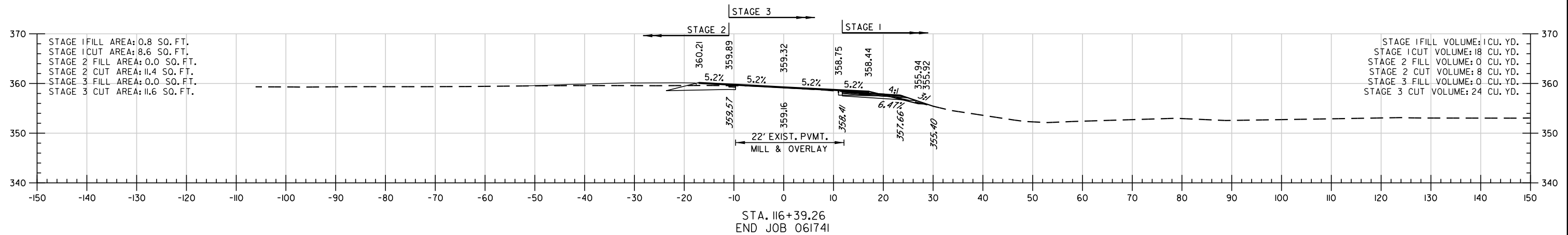
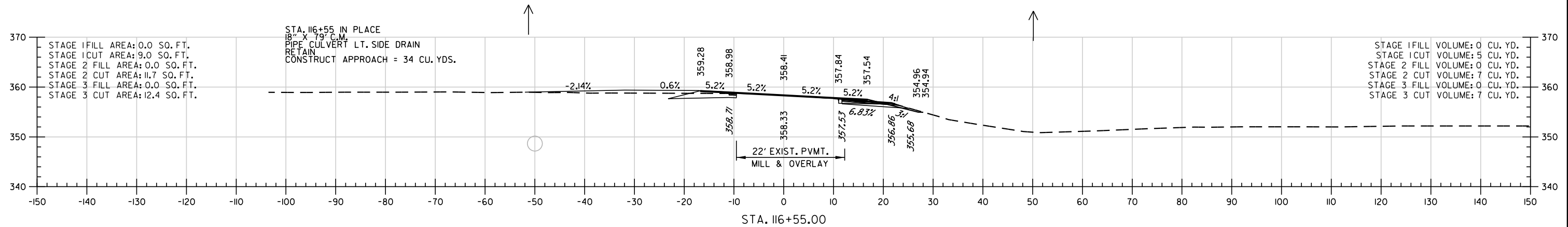
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	118	136
CROSS SECTIONS						



STA. 114+70.00 END
-6.88% RT. DITCH GRADE
ELEV. 366.52

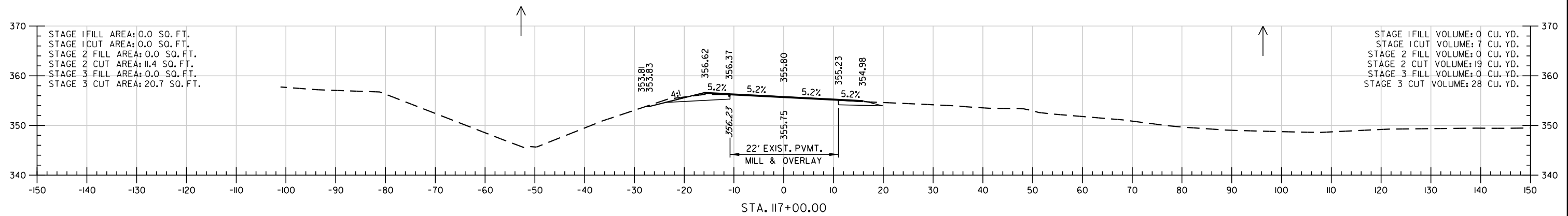
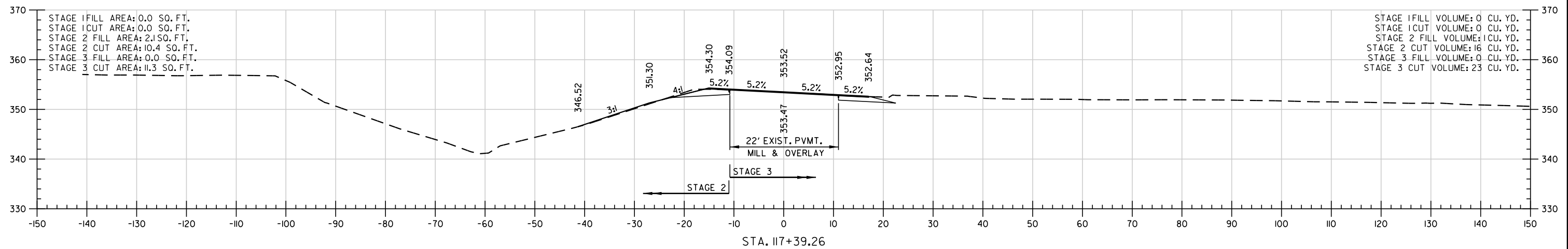
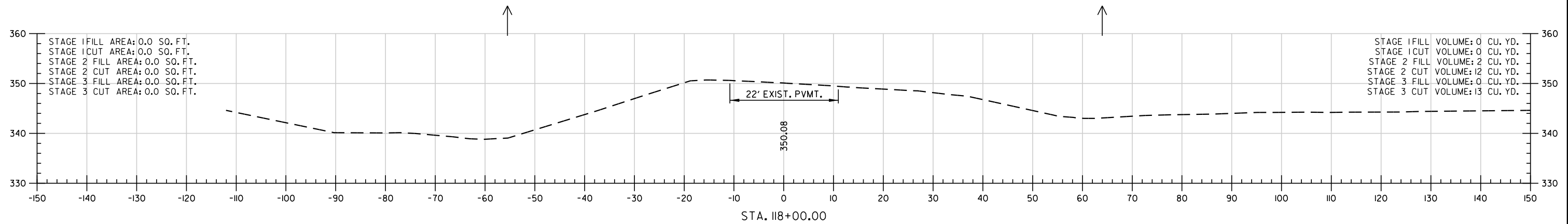
HWY. 283
STA. 114+73.00 TO STA. 115+25.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	119	136
CROSS SECTIONS						



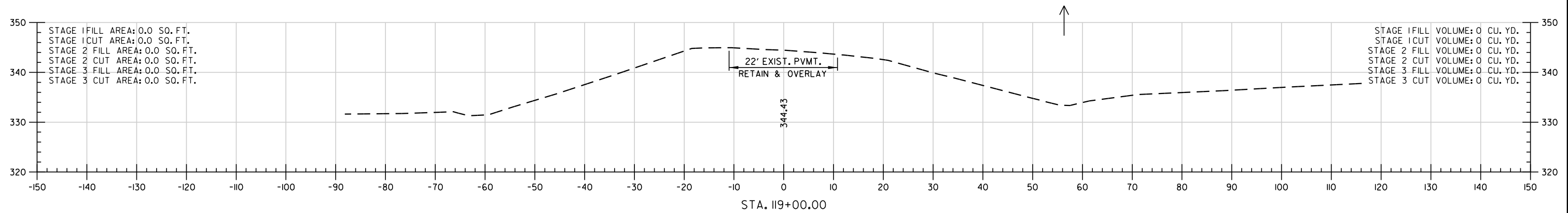
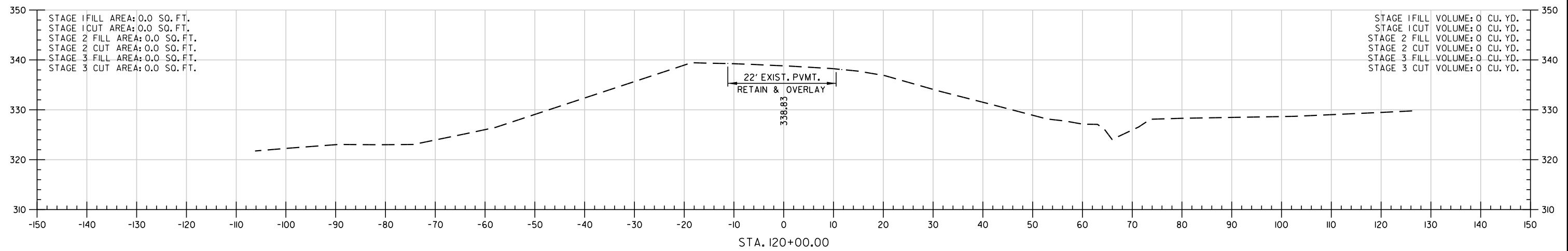
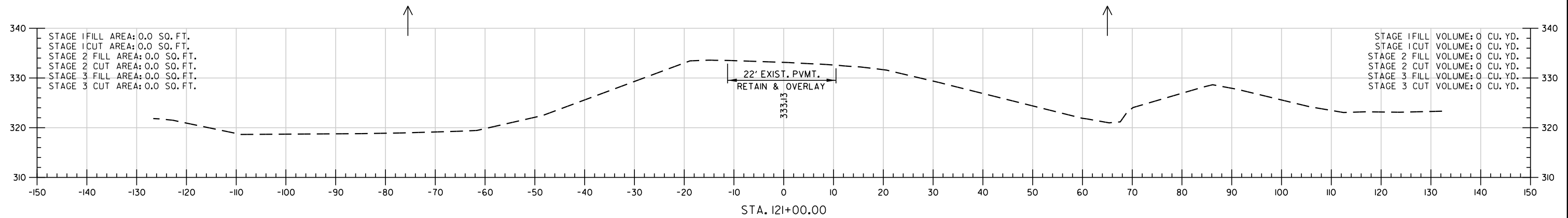
HWY. 283
STA. 116+00.00 TO STA. 116+55.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	120	136
CROSS SECTIONS						



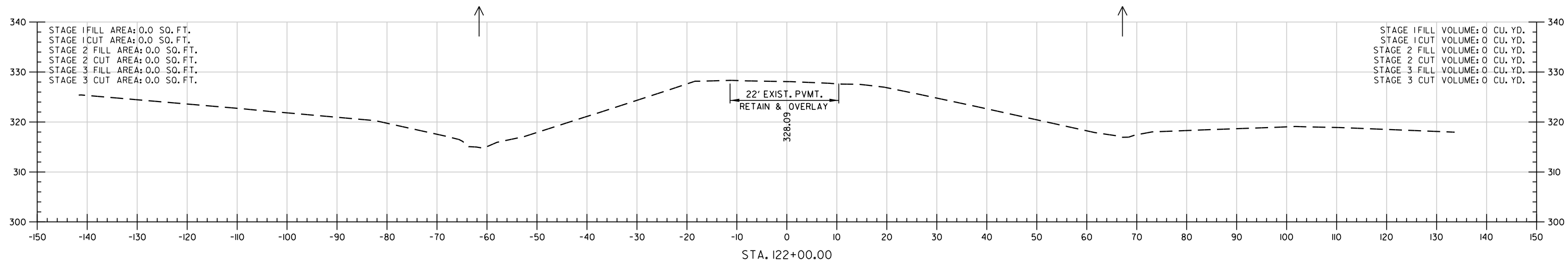
HWY. 283
STA. 117+00.00 TO STA. 118+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	121	136
CROSS SECTIONS						



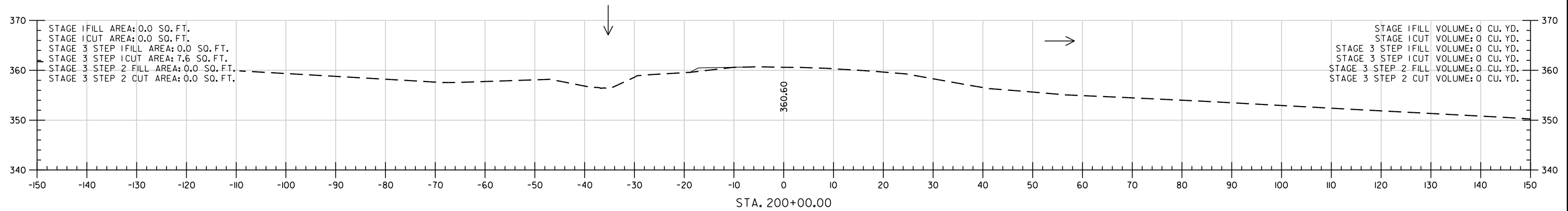
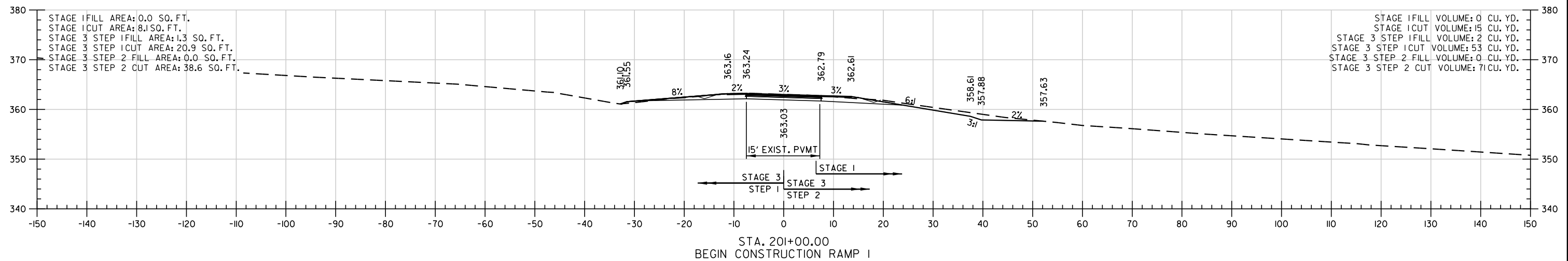
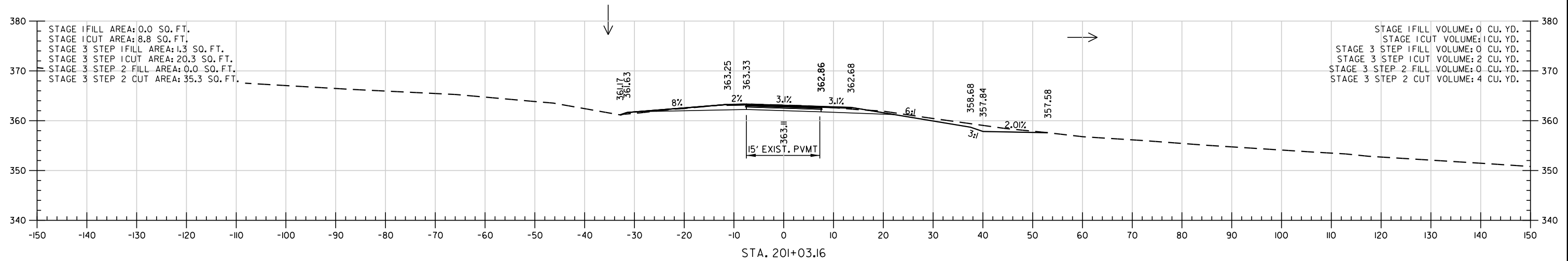
HWY. 283
STA. 119+00.00 TO STA. 121+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	122	136
CROSS SECTIONS						



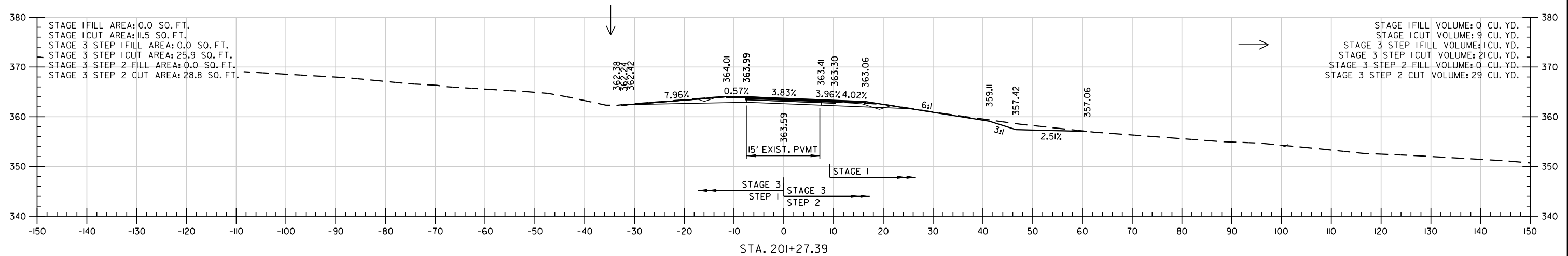
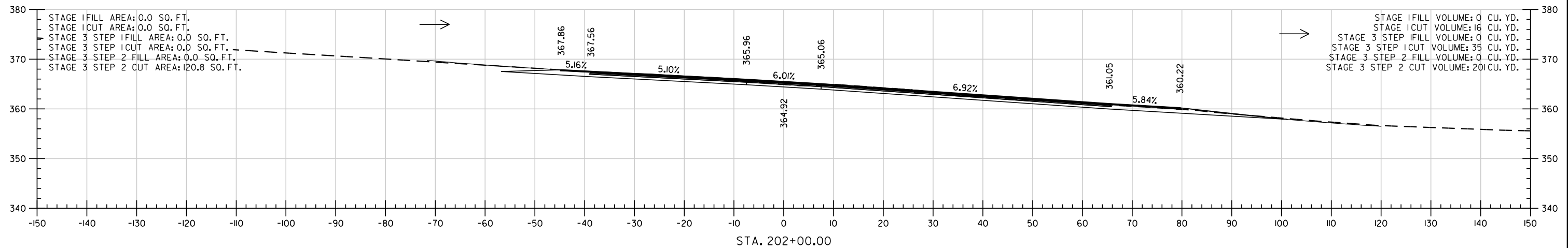
HWY. 283
STA. 122+00.00 TO STA. 122+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	123	136
CROSS SECTIONS						



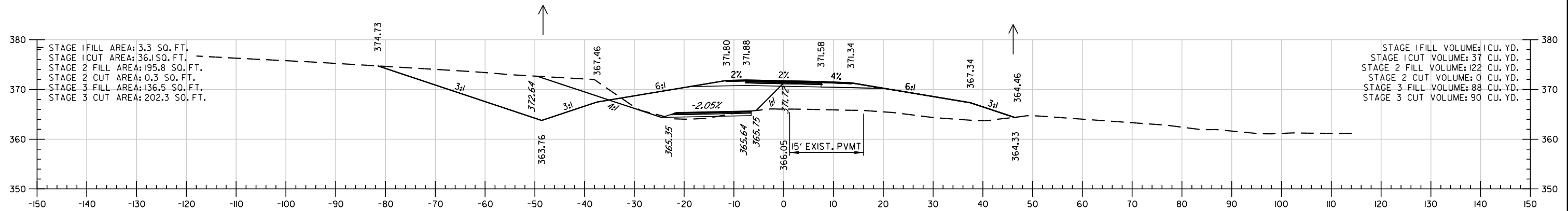
RAMP 1
STA. 200+00.00 TO STA. 201+13.40

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	124	136
CROSS SECTIONS						



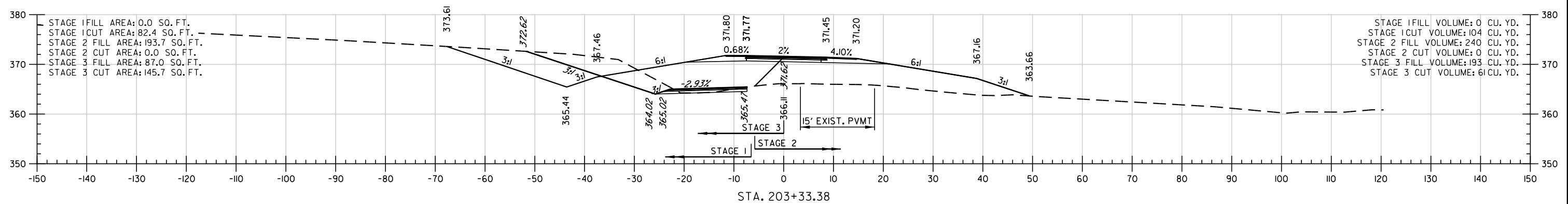
RAMP 1
STA. 201+27.39 TO STA. 202+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	125	136
CROSS SECTIONS						

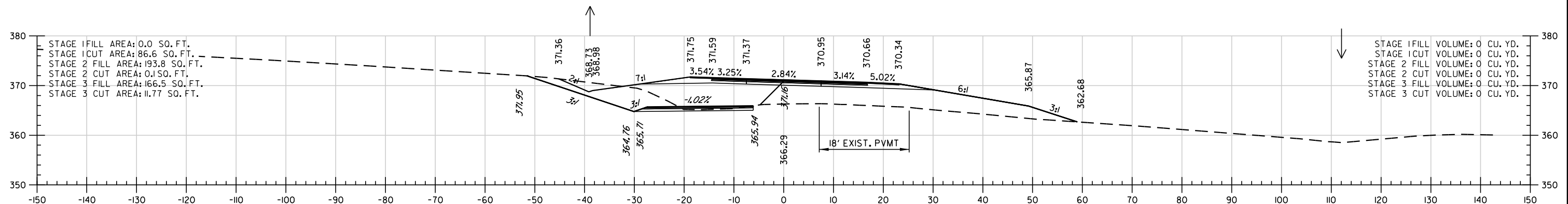


STA. 203+40.00 BEGIN
-2.75% LT. DITCH GRADE
ELEV. 364.04

STA. 203+50.00 BEGIN
-0.77% RT. DITCH GRADE
ELEV. 364.33



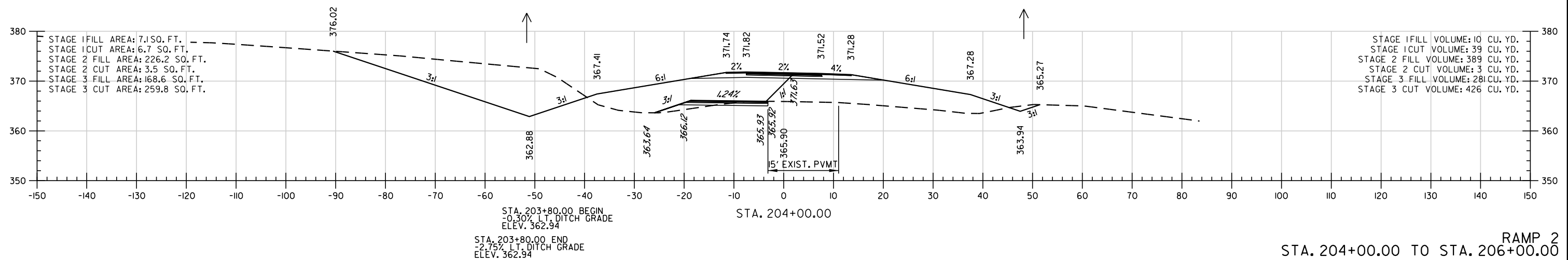
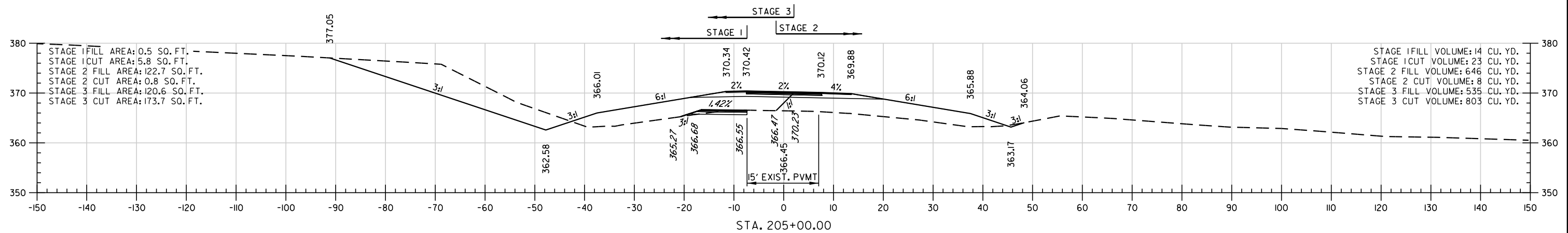
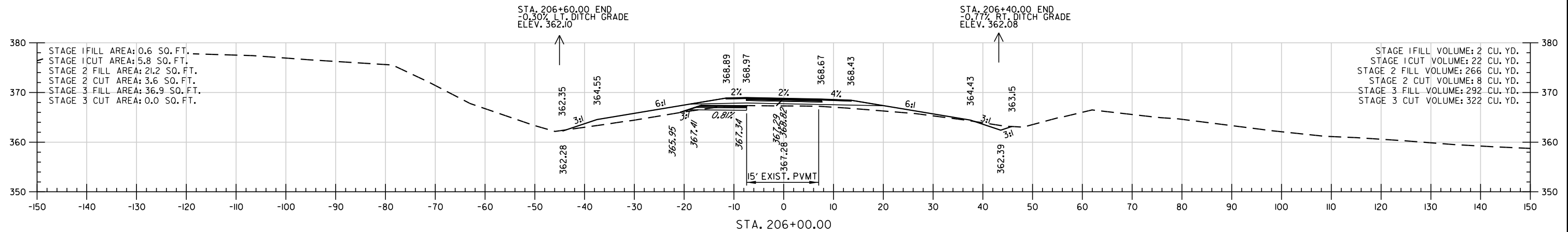
STA. 203+33.38



STA. 203+00.00
BEGIN CONSTRUCTION RAMP 2

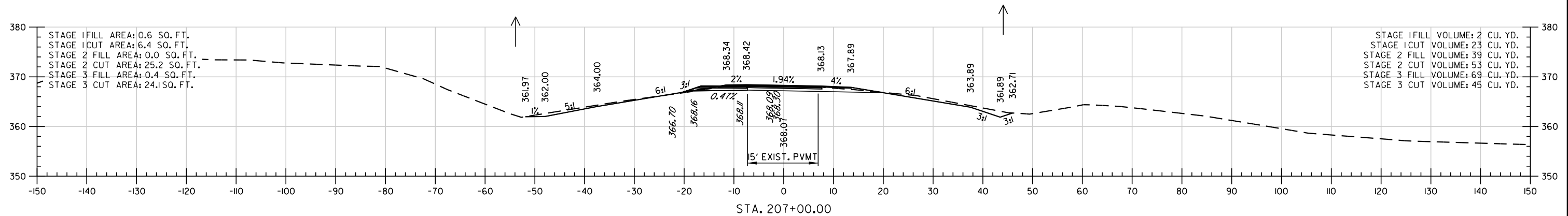
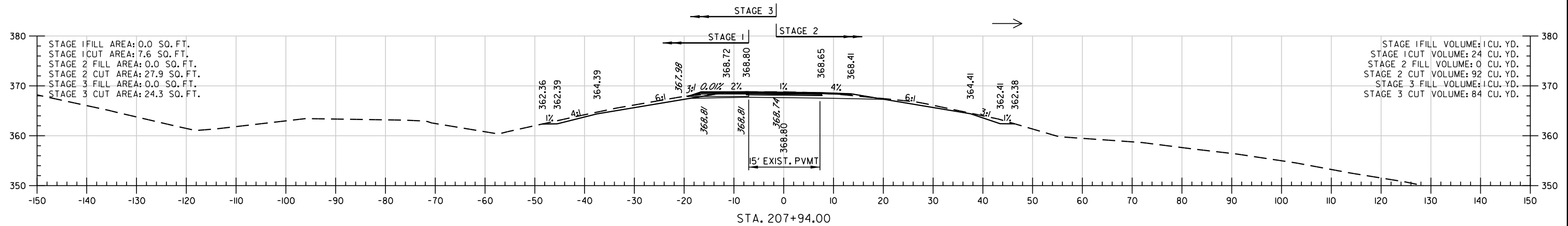
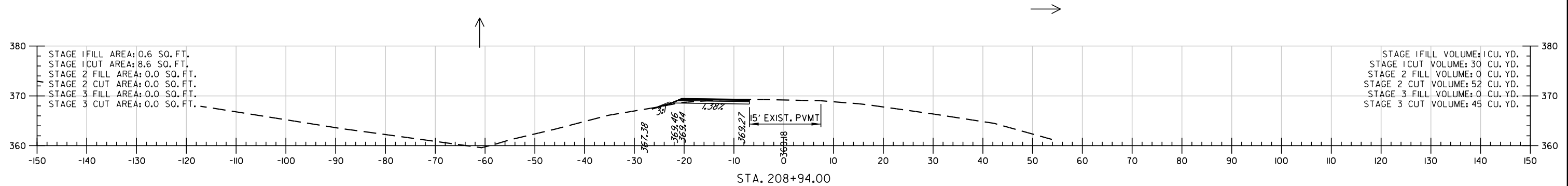
RAMP 2
STA. 203+00.00 TO STA. 203+50.25

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	126	136
CROSS SECTIONS						



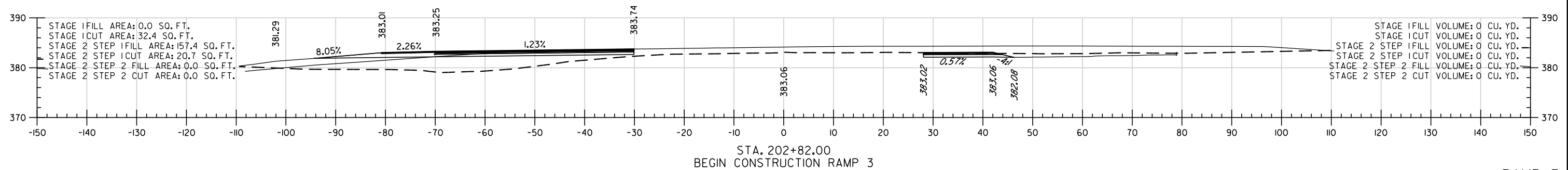
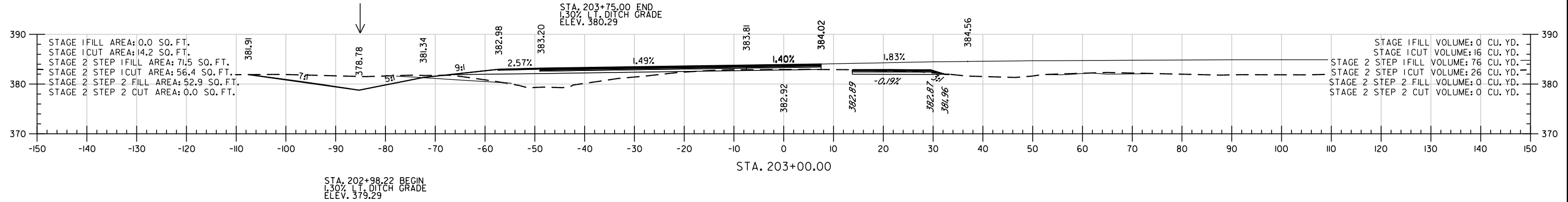
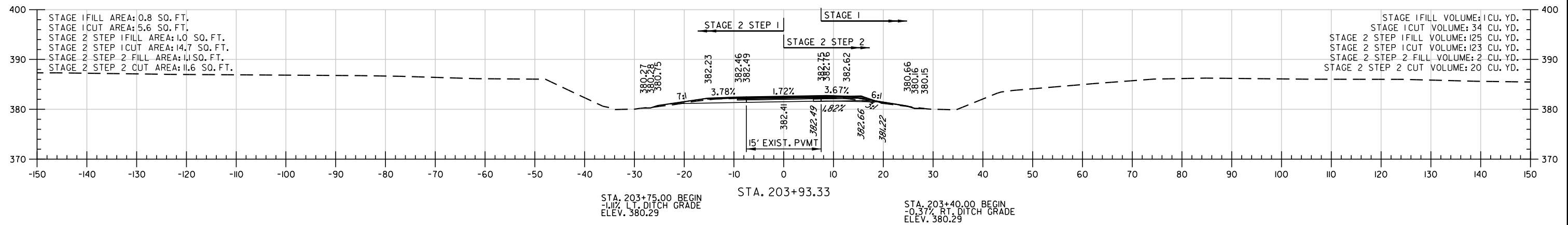
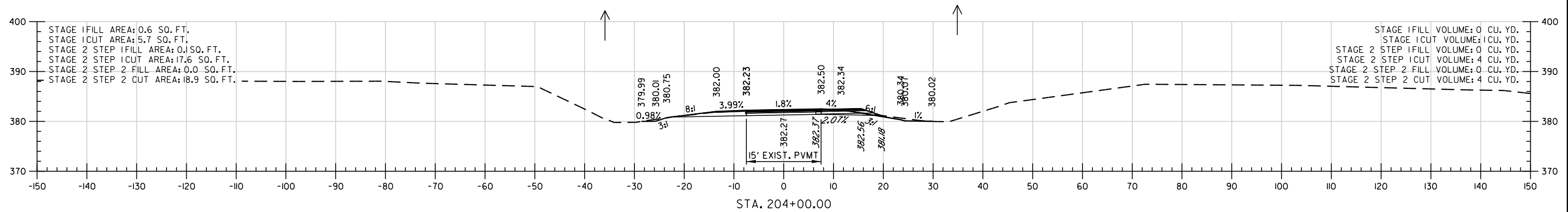
RAMP 2
STA. 204+00.00 TO STA. 206+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	127	136
CROSS SECTIONS						



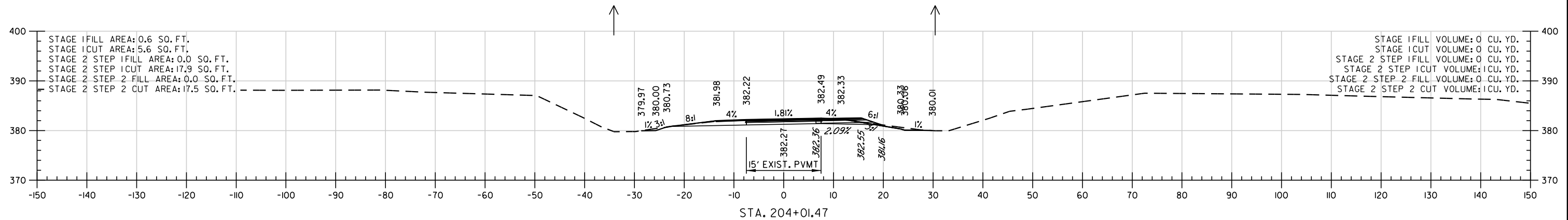
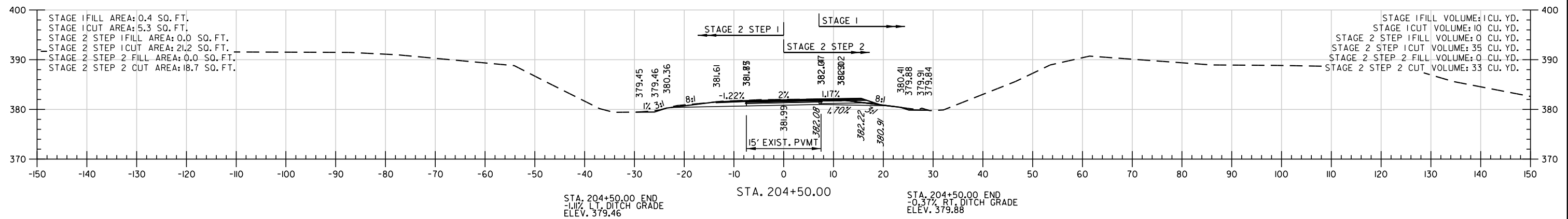
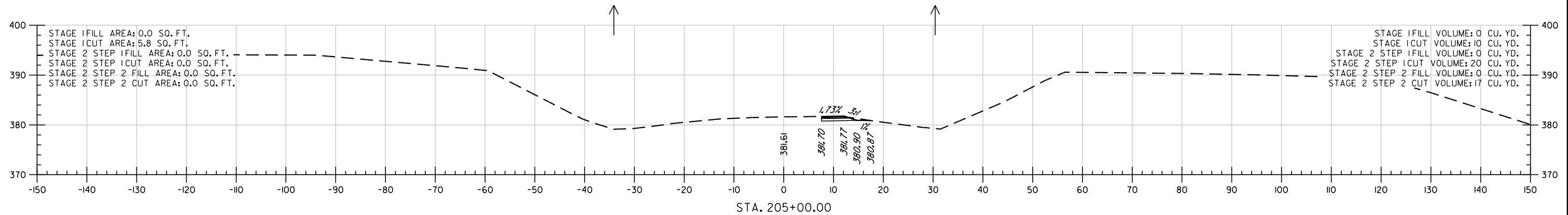
STA. 207+00.00 TO STA. 208+94.00 RAMP 2

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	128	136
CROSS SECTIONS						



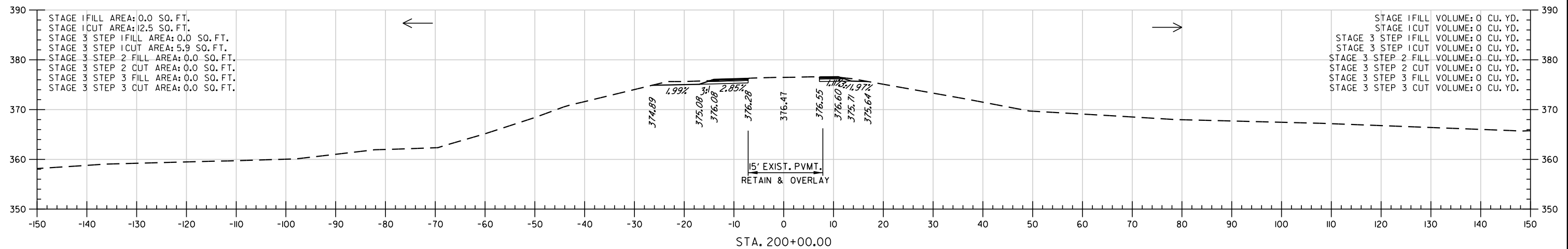
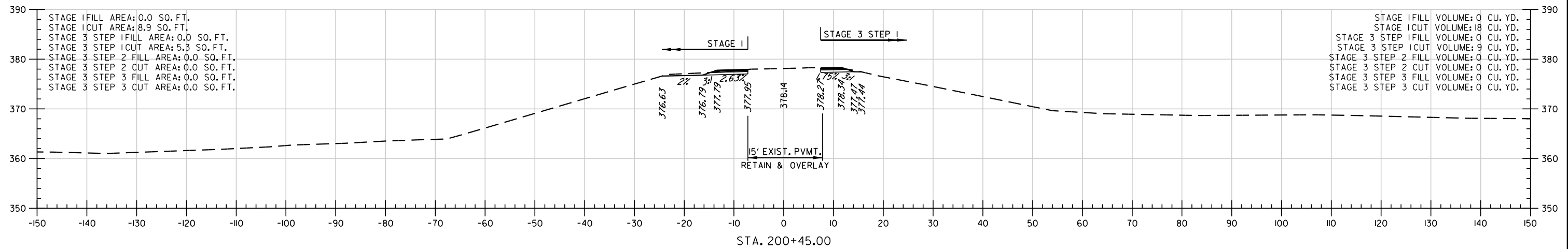
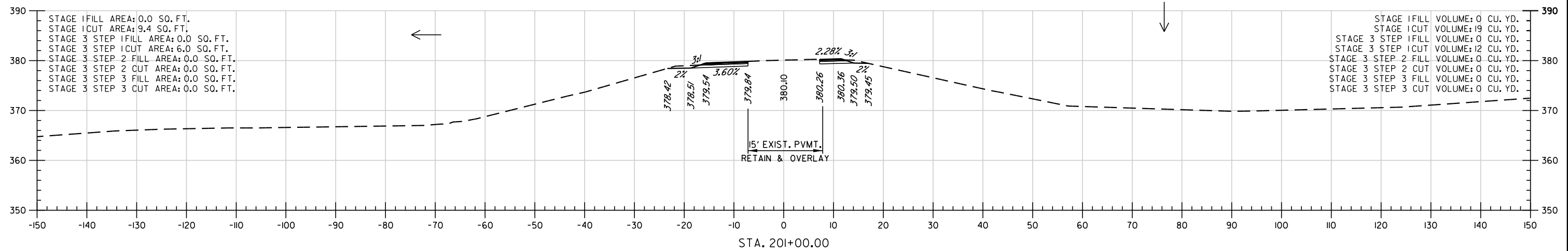
RAMP 3
STA. 202+82.00 TO STA. 204+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	129	136
CROSS SECTIONS						



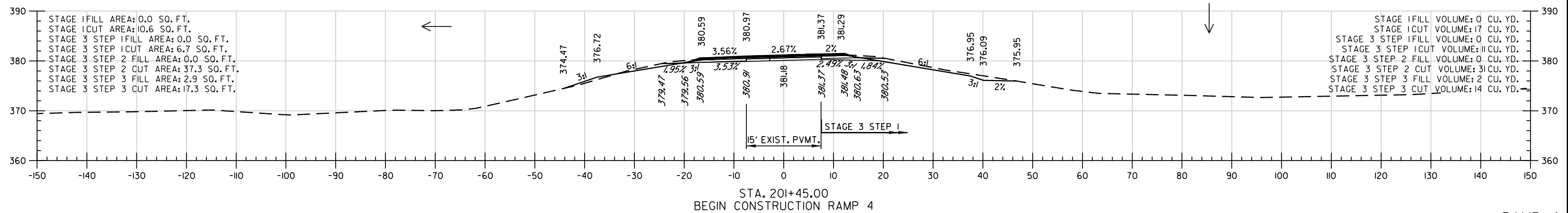
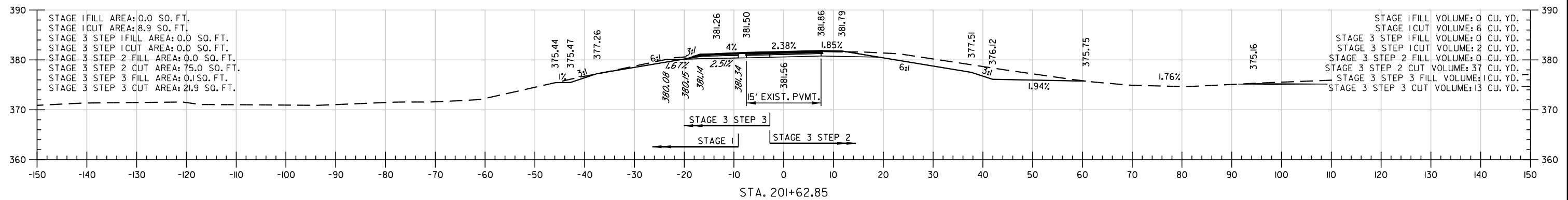
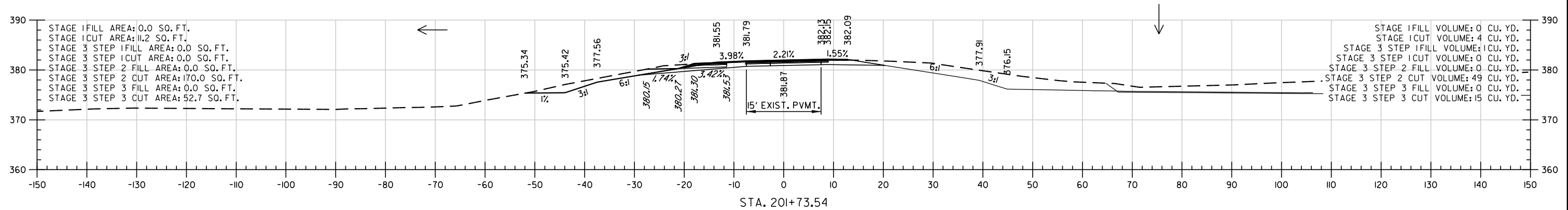
RAMP 3
STA. 204+01.47 TO STA. 205+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	130	136
CROSS SECTIONS						



RAMP 4
STA. 200+00.00 TO STA. 201+00.00

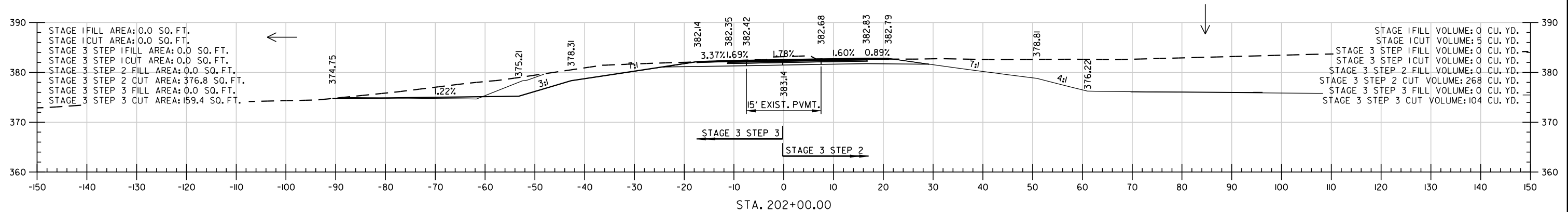
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	131	136
CROSS SECTIONS						



STA. 201+45.00
BEGIN CONSTRUCTION RAMP 4

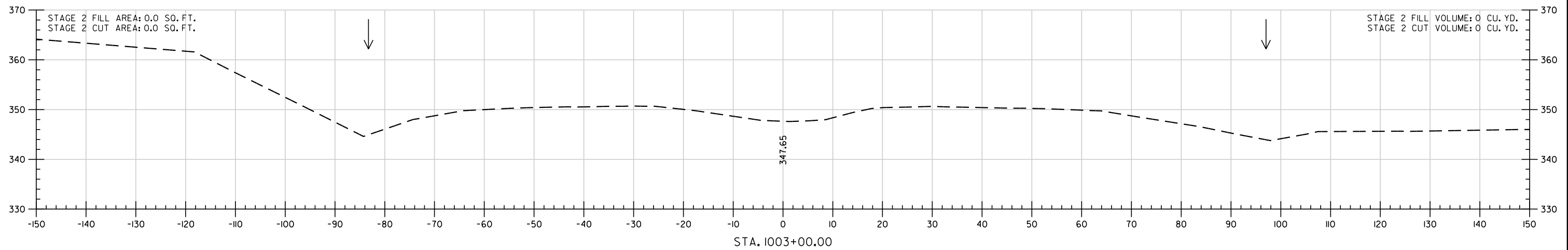
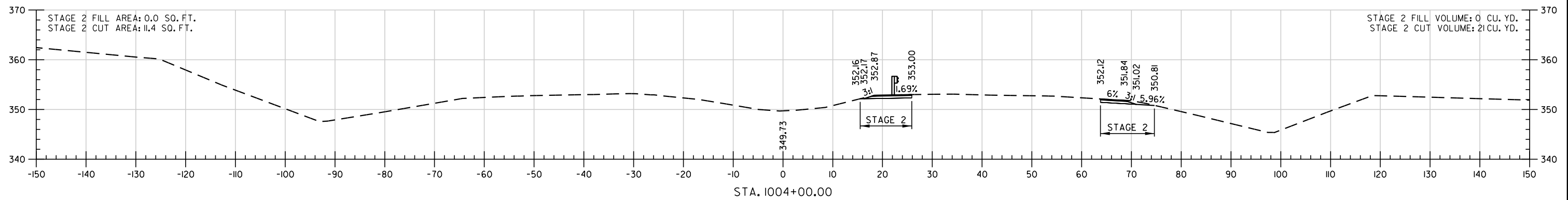
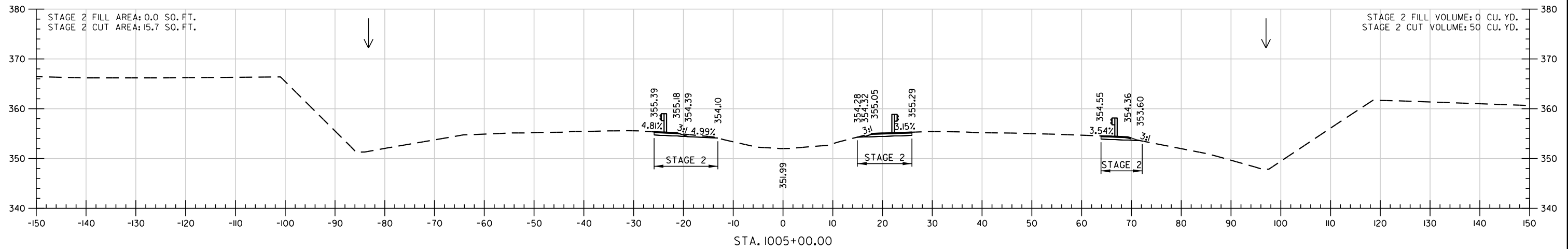
RAMP 4
STA. 201+45.00 TO STA. 201+73.54

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	132	136
CROSS SECTIONS						



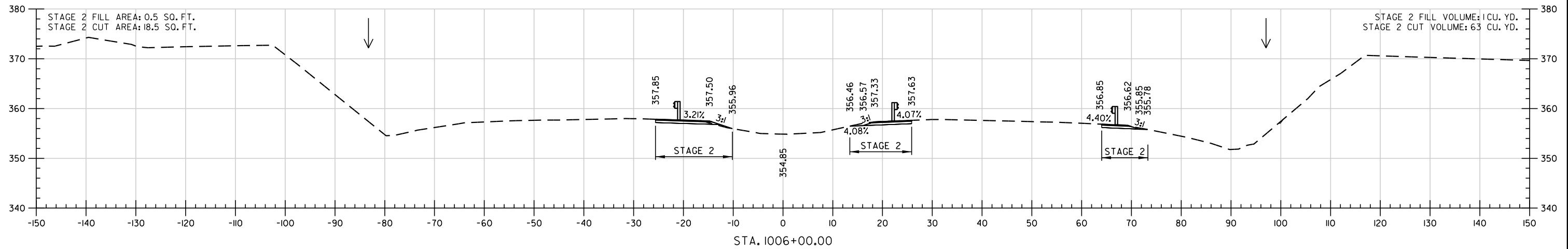
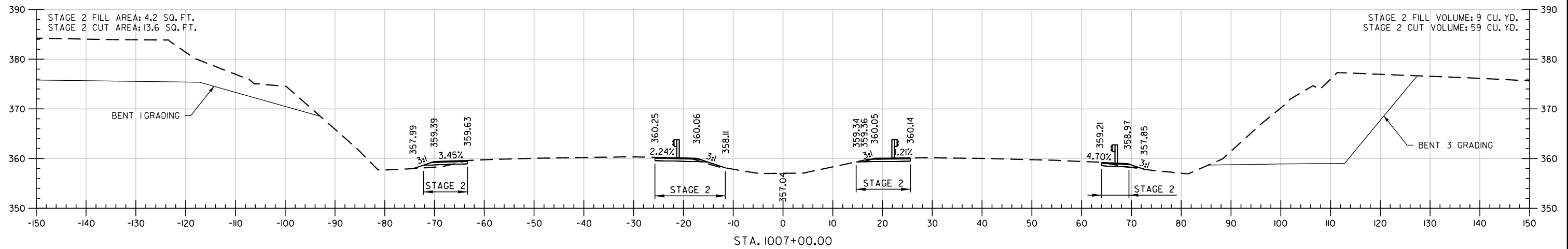
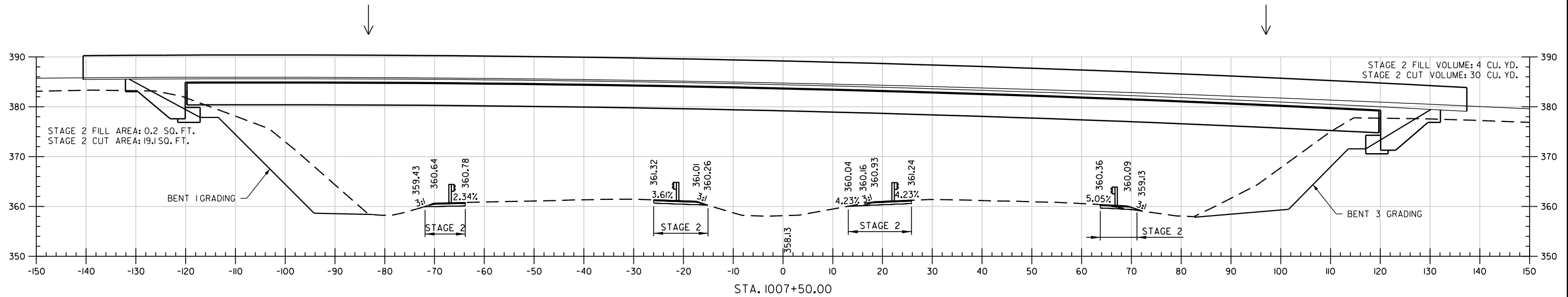
STA. 202+00.00 TO STA. 202+00.00 RAMP 4

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	133	136
CROSS SECTIONS						

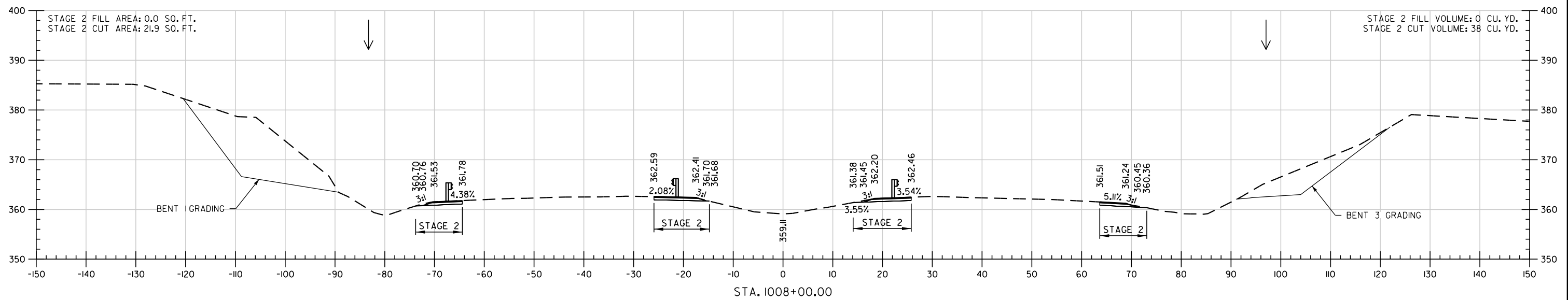
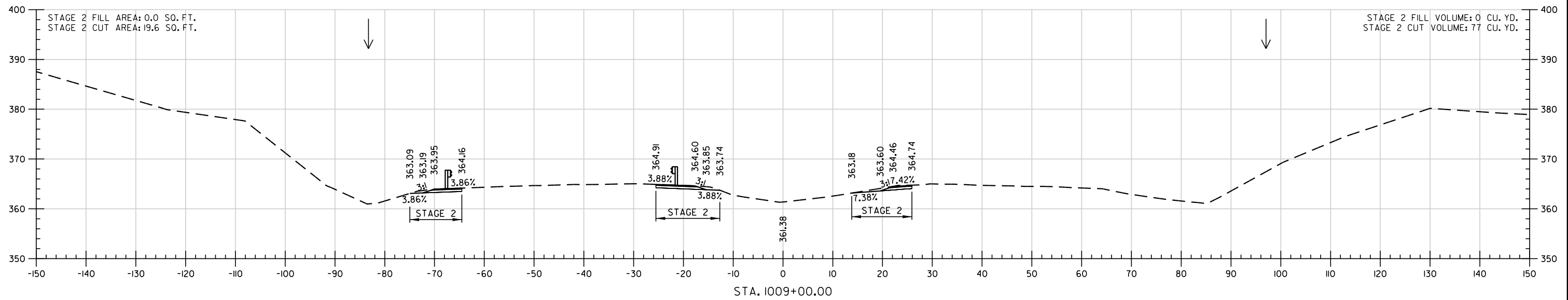


STA. 1003+00.00 TO STA. 1005+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	134	136
CROSS SECTIONS						

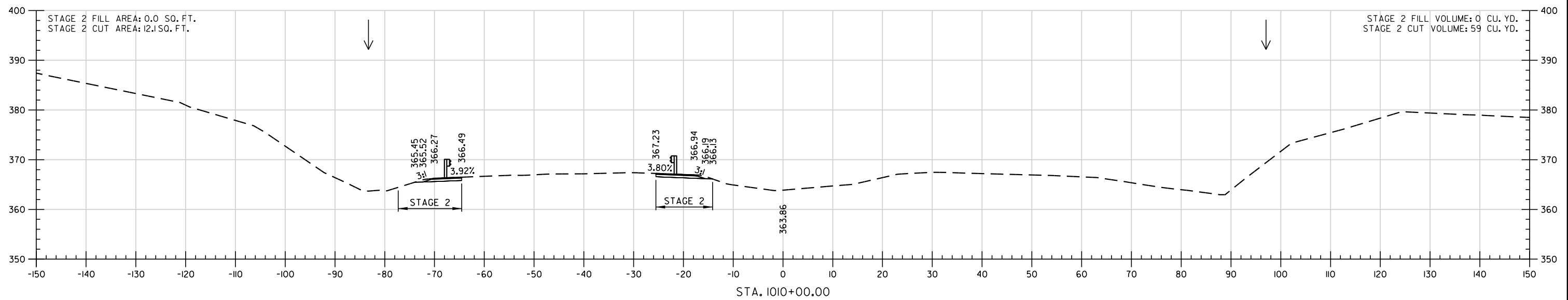
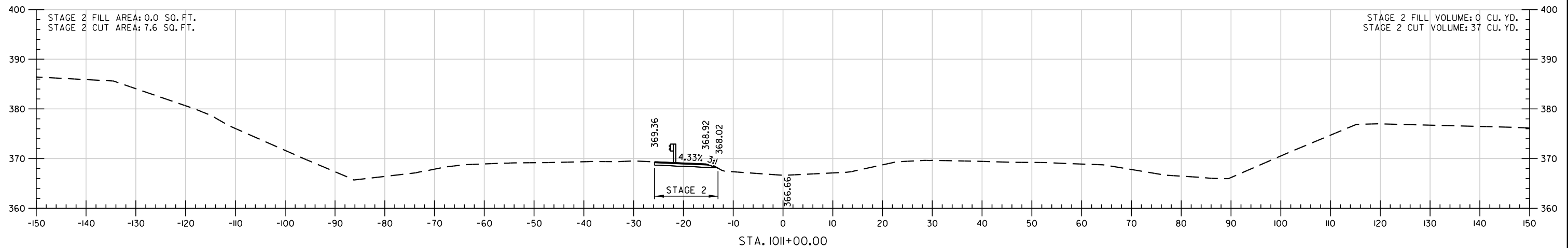
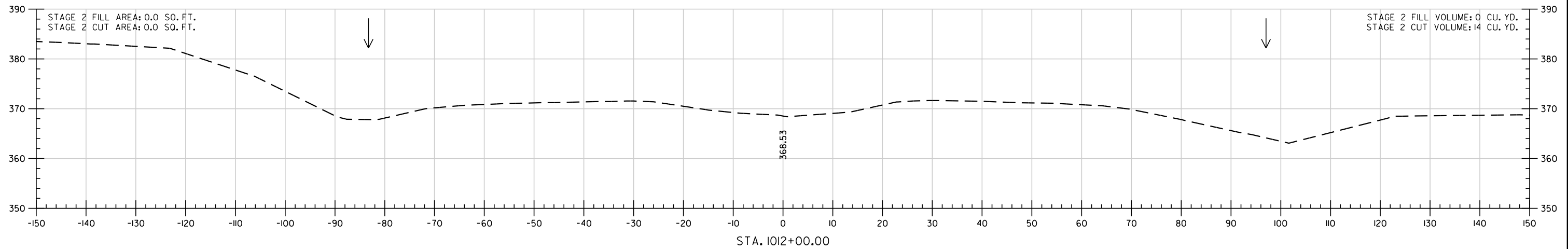


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	135	136
CROSS SECTIONS						



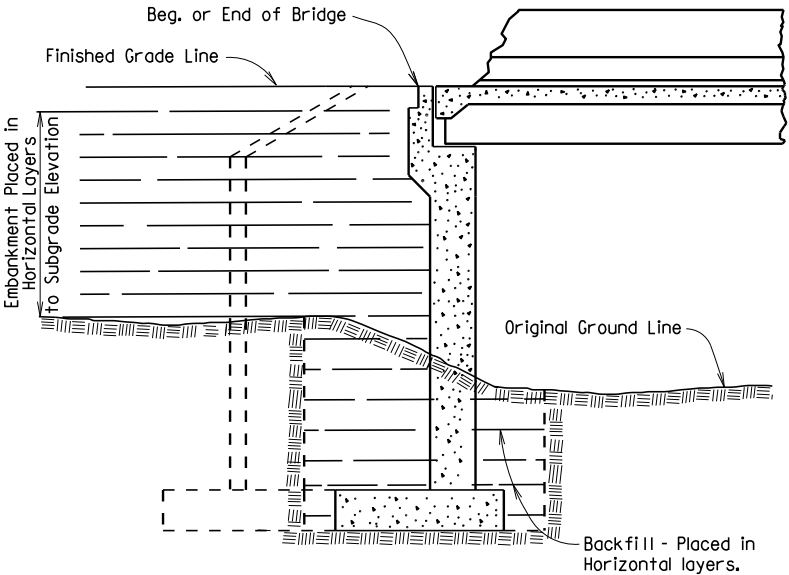
STA. 1008+00.00 TO STA. 1009+00.00

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061741	136	136
CROSS SECTIONS						

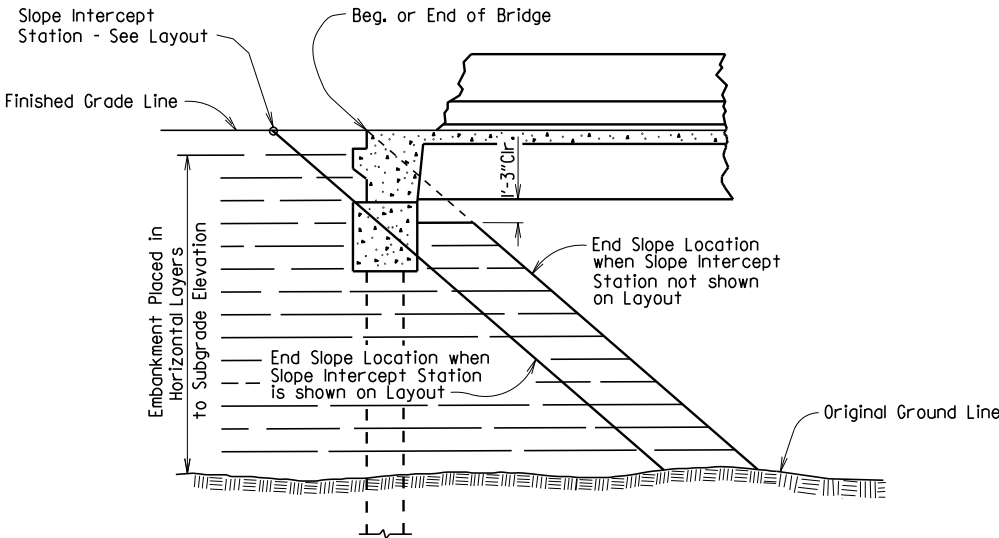


STA. 1010+00.00 TO STA. 1012+00.00

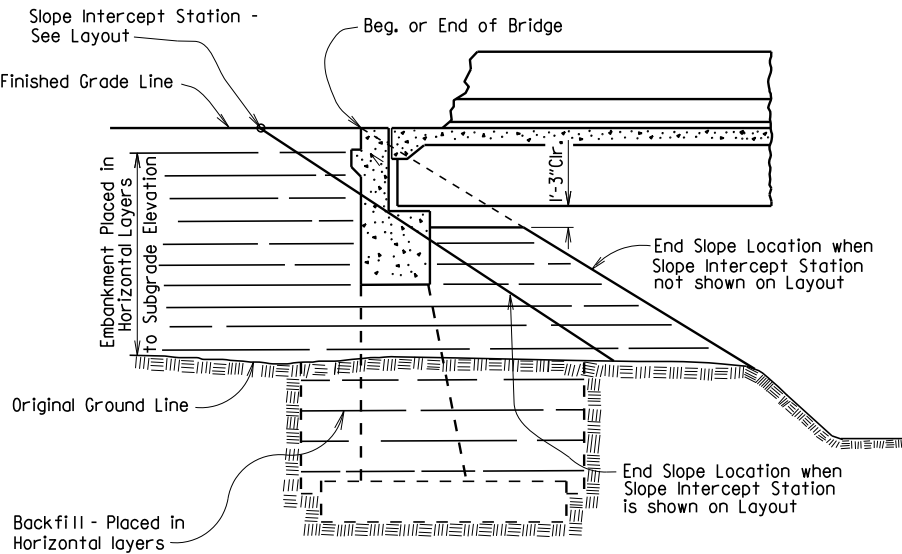
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				1 EMBANKMENT & BACKFILL			55000	



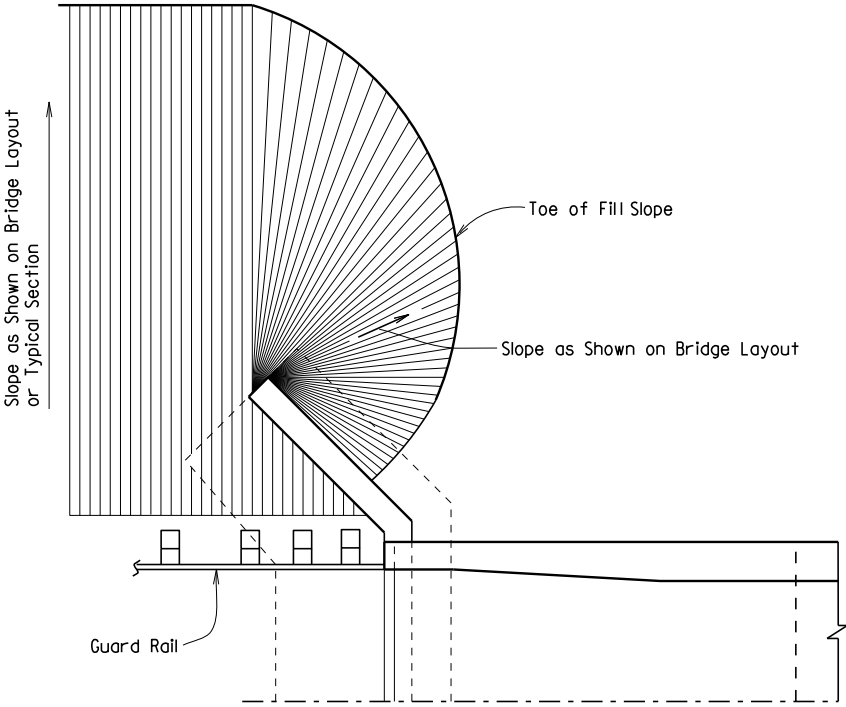
EMBANKMENT CONSTRUCTION AND FOOTING BACKFILL
AT VERTICAL WALL ABUTMENTS



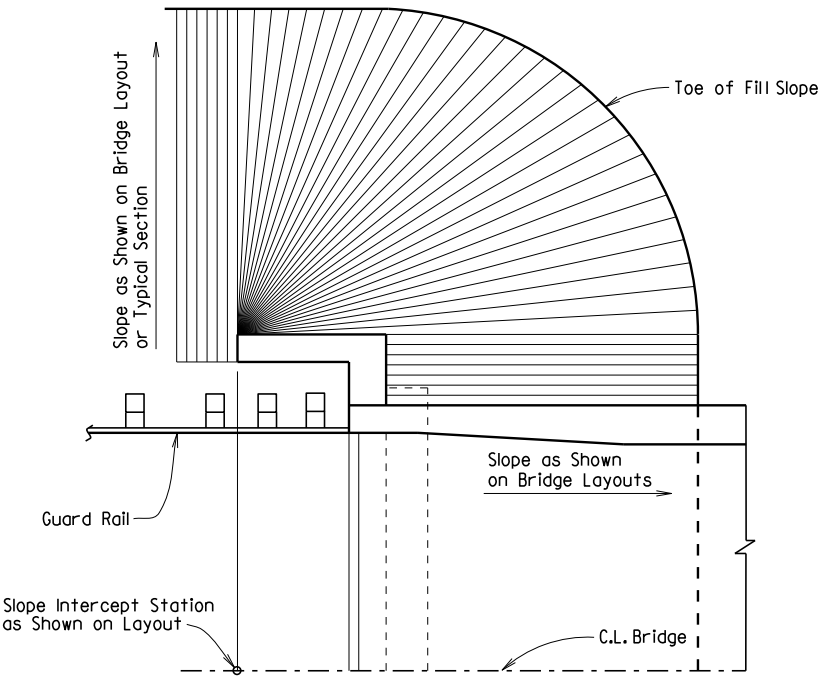
EMBANKMENT CONSTRUCTION AT SPILL-THROUGH
PILE END BENTS



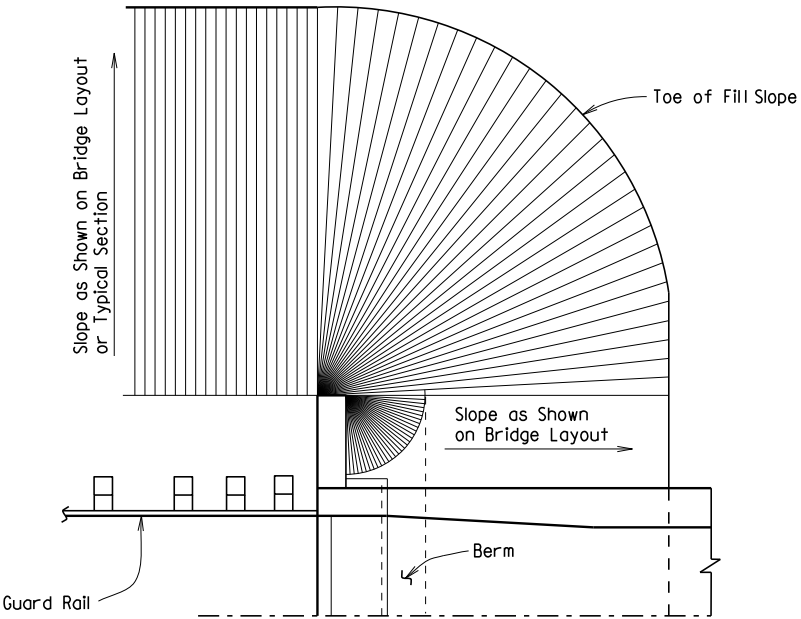
EMBANKMENT CONSTRUCTION AND FOOTING BACKFILL
AT SPILL-THROUGH END BENTS



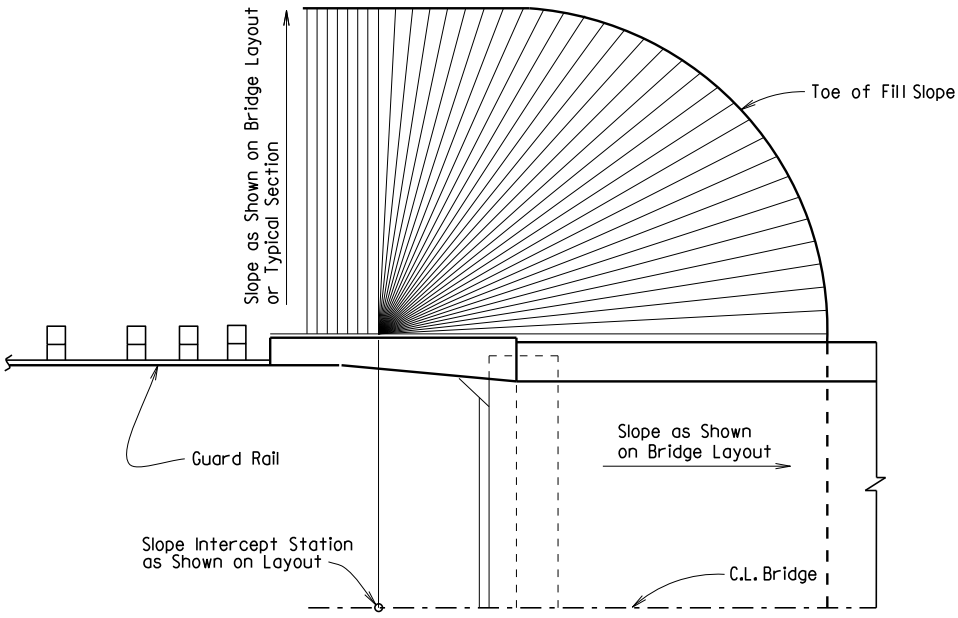
VERTICAL WALL ABUTMENTS



SPILL-THROUGH END BENTS WITH TURNBACK WING



SPILL-THROUGH END BENTS WITH STUB WING



SPILL-THROUGH END BENTS WITH TRANSITION WING

METHOD OF DETERMINING FILL SLOPE LOCATION AT BRIDGE ENDS

GENERAL NOTES

The Bridge End Embankment shall be defined as a section of embankment, not less than 20 feet long adjacent to the bridge end, together with the side slopes and slopes under the bridge end including around the end of wingwalls. Embankment adjacent to structures shall be constructed in 6 inch horizontal layers (loose measure) and compacted by the use of mechanical equipment to the satisfaction of the Engineer. Refer to Subsections 210.09, 210.10 and 801.08 for construction requirements.

STANDARD DETAILS FOR EMBANKMENT CONSTRUCTION AND BACKFILL AT BRIDGE ENDS

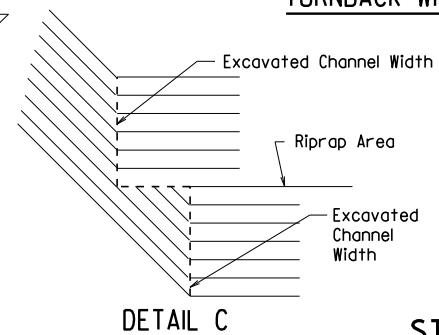
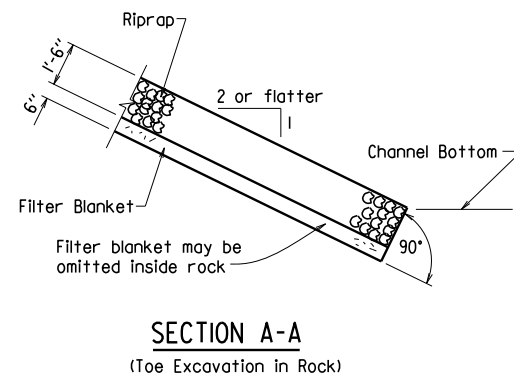
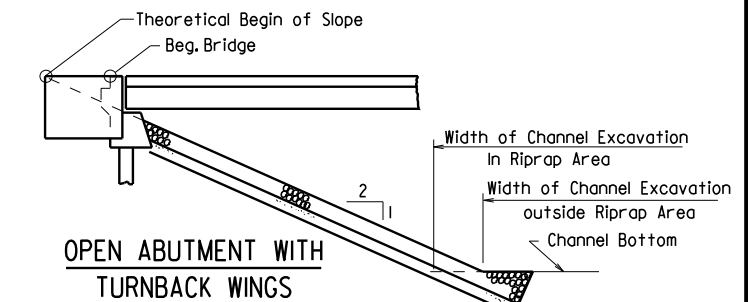
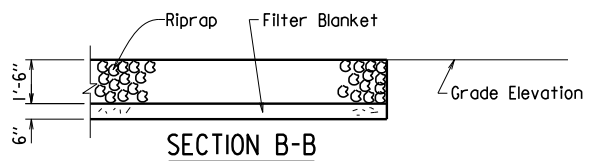
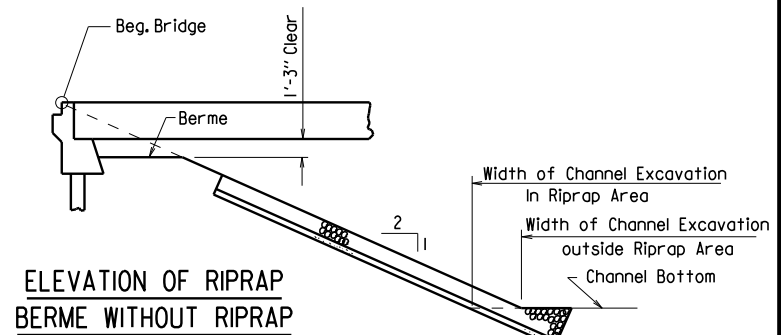
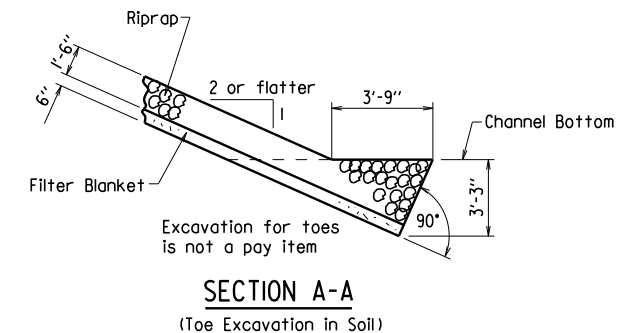
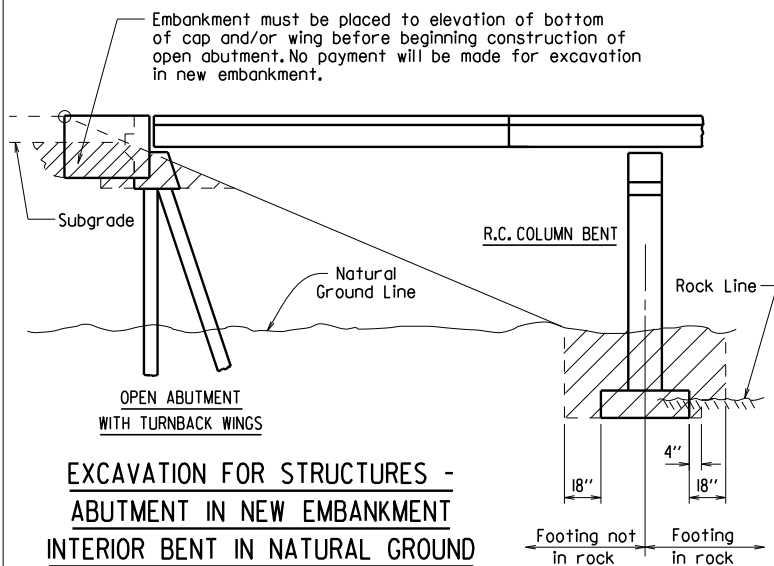
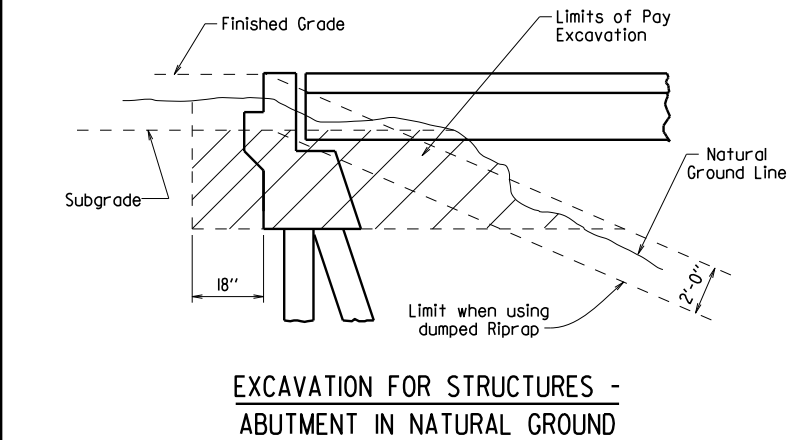
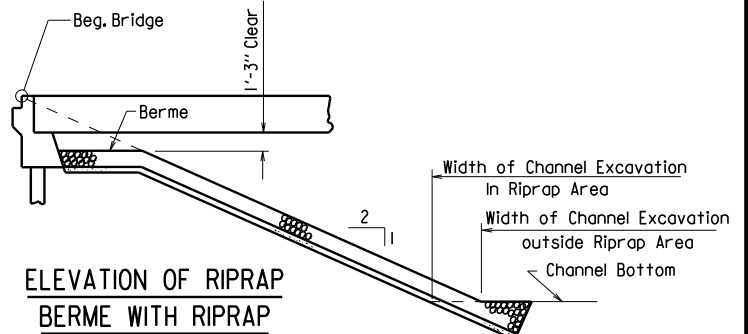
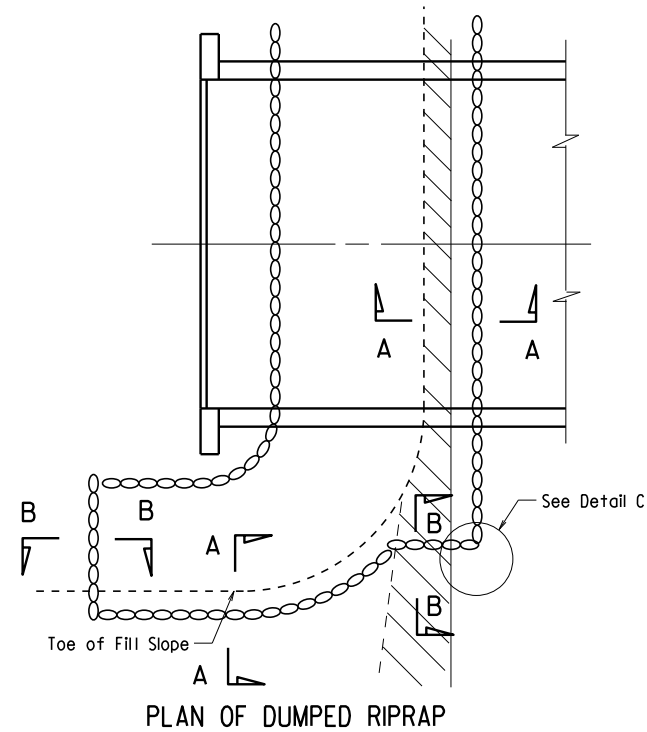
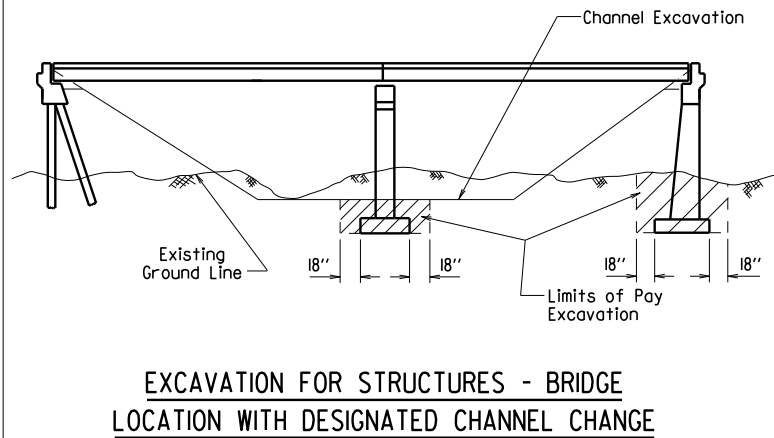
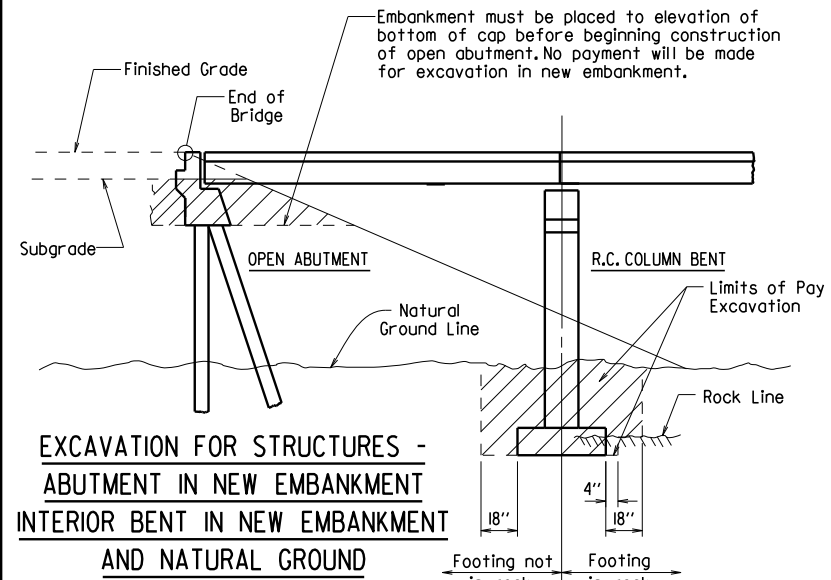
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 2-27-2014 FILENAME: b55000.dgn
CHECKED BY: BEF DATE: 2-27-2014 SCALE: NO SCALE
DESIGNED BY: STD. DATE: -

DRAWING NO. 55000

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				RIPRAP & EXCAV. 5500I				

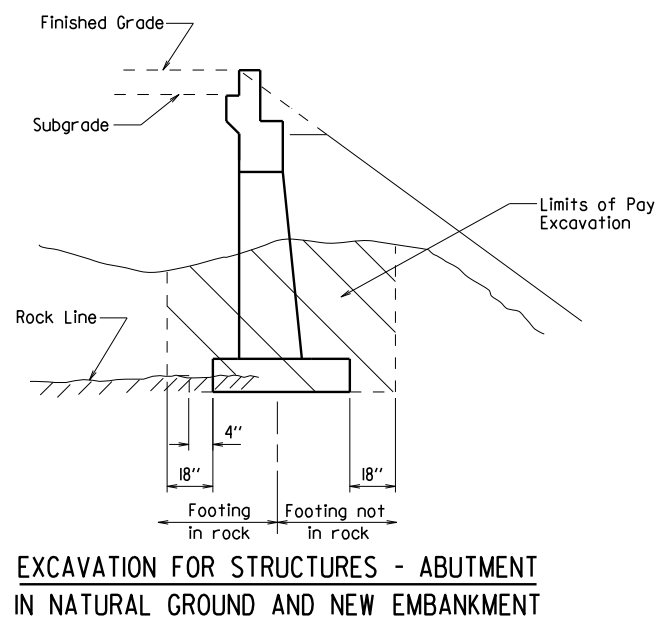
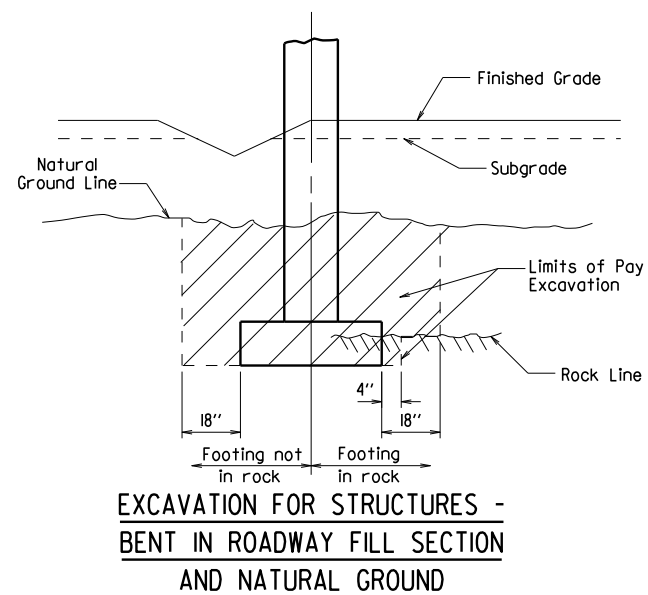


STANDARD DETAILS FOR
DUMPED RIPRAP AND FILTER BLANKET
AND COMPUTING
EXCAVATION FOR STRUCTURES
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 2-27-2014 FILENAME: b5500I.dgn
CHECKED BY: BEF DATE: 2-27-2014 SCALE: NO SCALE
DESIGNED BY: STD. DATE:

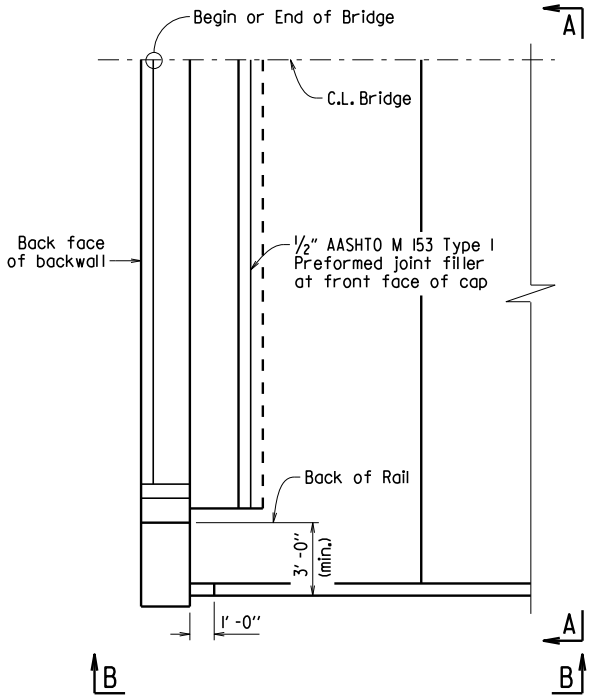
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				

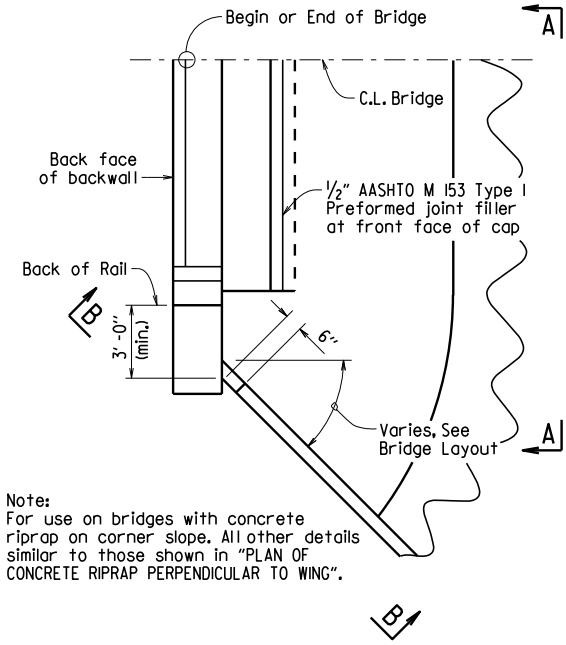
CONCRETE RIPRAP 55002

Note:
Sloped surfaces of concrete riprap to be marked off into blocks (construction joints optional) with an approved grooving tool, spacing the grooved lines about 5' apart.



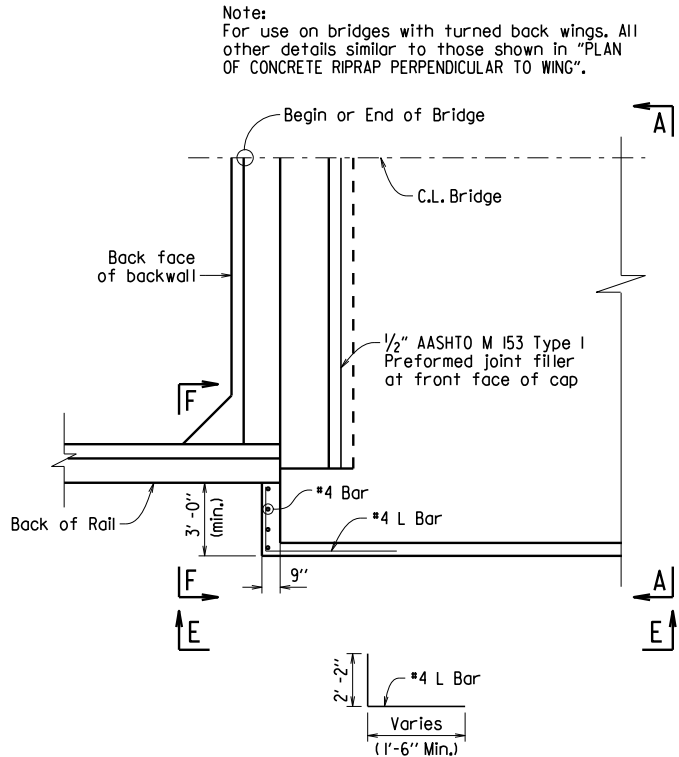
PLAN OF CONCRETE RIPRAP
PERPENDICULAR TO WING

1/4" = 1'-0"



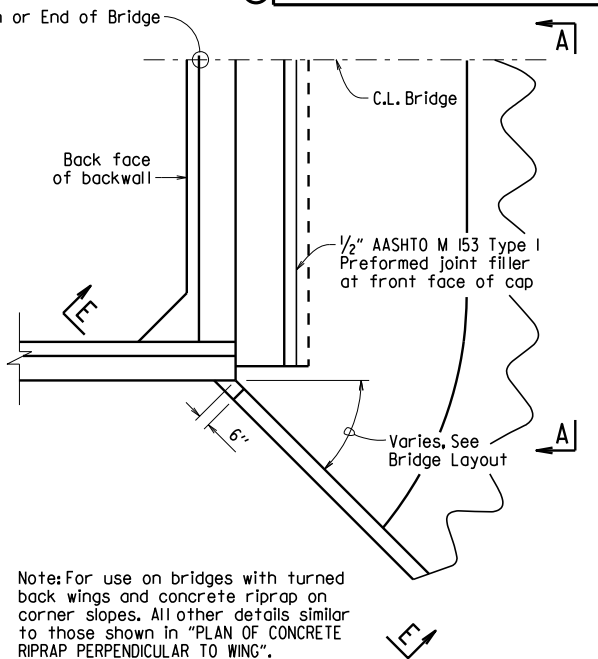
PLAN OF CONCRETE RIPRAP
AT ANGLE TO WING

1/4" = 1'-0"



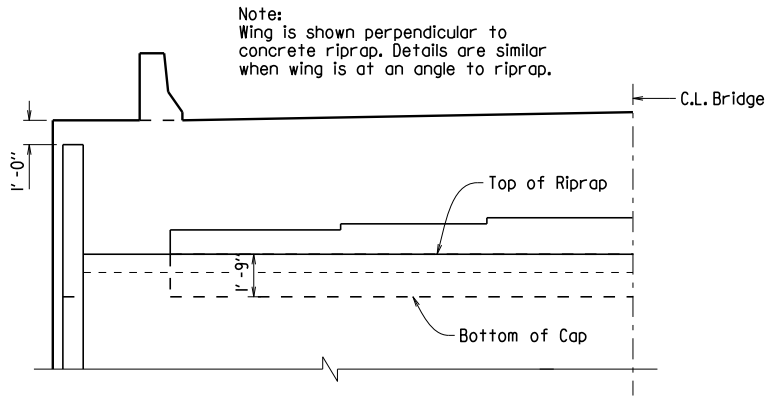
PLAN OF CONCRETE RIPRAP
PERPENDICULAR TO TURNED BACK WING

1/4" = 1'-0"



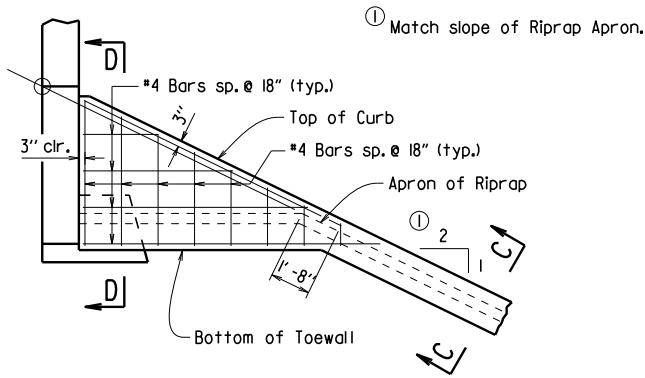
PLAN OF CONCRETE RIPRAP
AT ANGLE FROM TURNED BACK WING

1/4" = 1'-0"



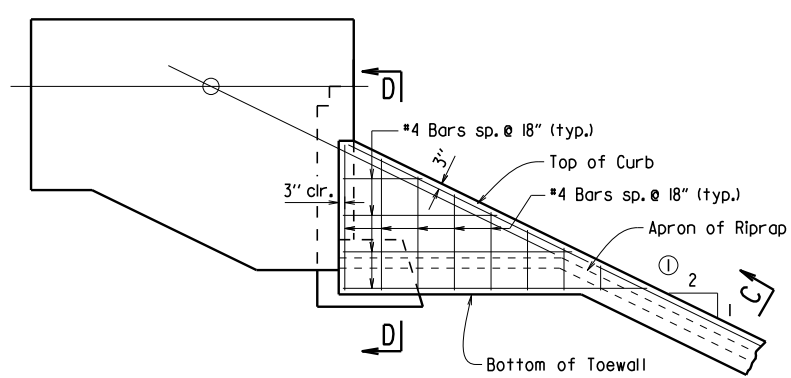
VIEW A-A

1/4" = 1'-0"



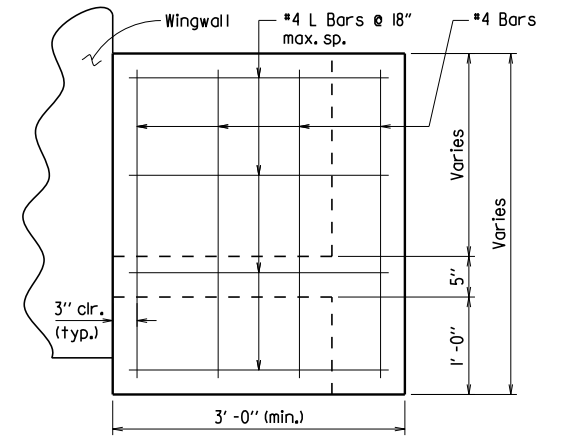
VIEW B-B

1/4" = 1'-0"



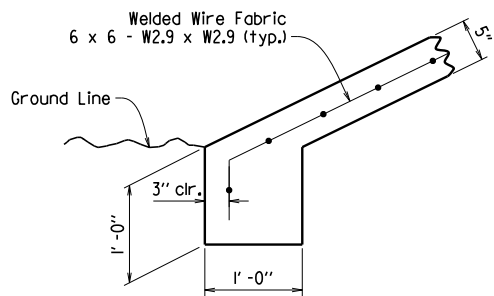
VIEW E-E

1/4" = 1'-0"



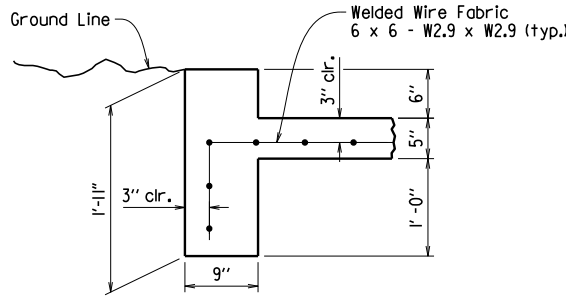
VIEW F-F

1" = 1'-0"



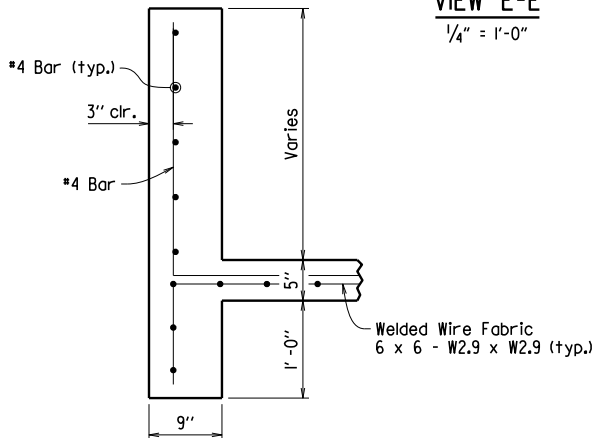
TOE OF CONCRETE RIPRAP

1" = 1'-0"



SECTION C-C

1" = 1'-0"



SECTION D-D

1" = 1'-0"

GENERAL NOTES

All concrete shall be Class A with a minimum compressive strength, $f'_c = 2,100$ psi.

Welded wire fabric shall conform to AASHTO M55 or M221.

STANDARD DETAILS FOR CONCRETE RIPRAP

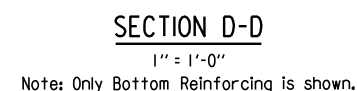
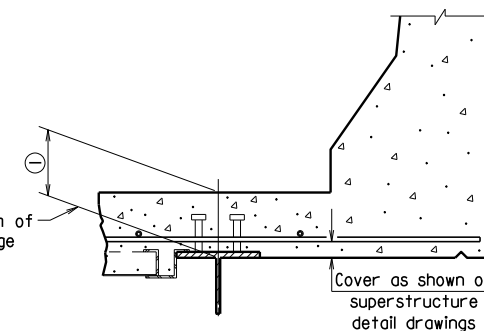
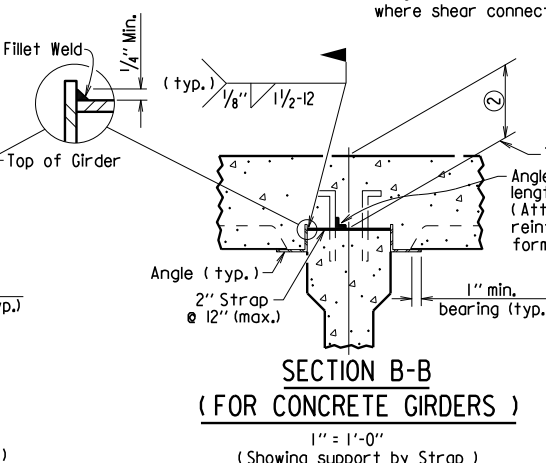
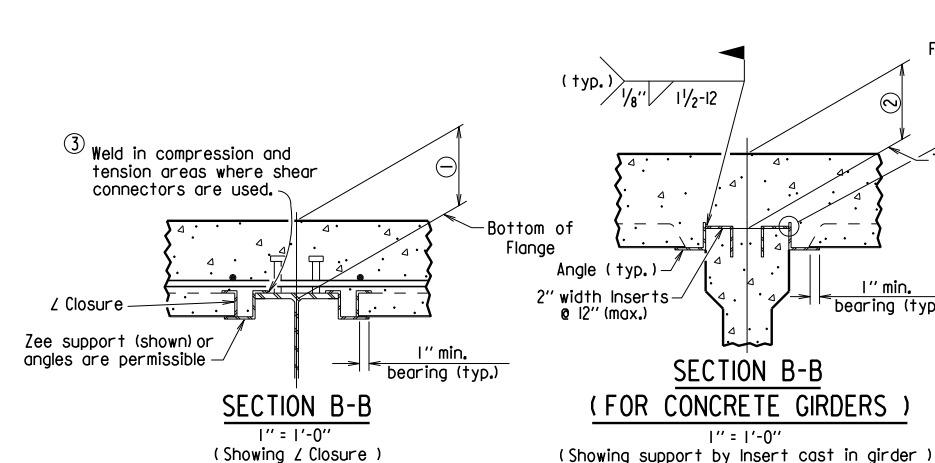
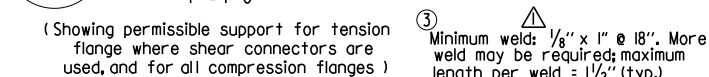
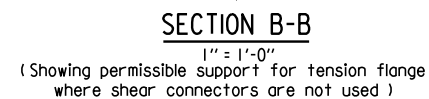
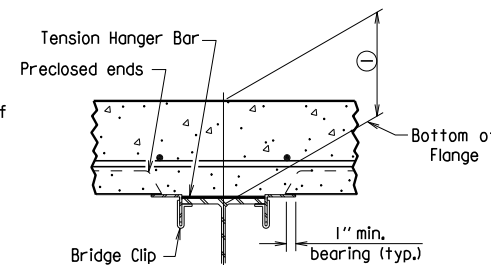
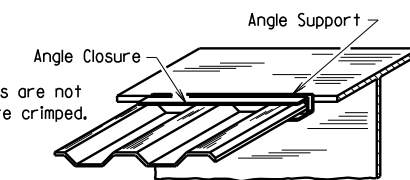
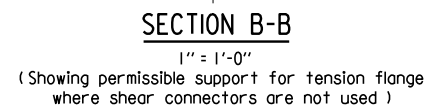
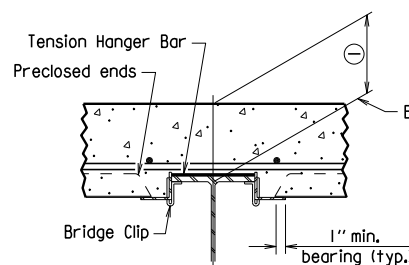
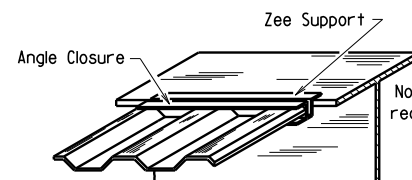
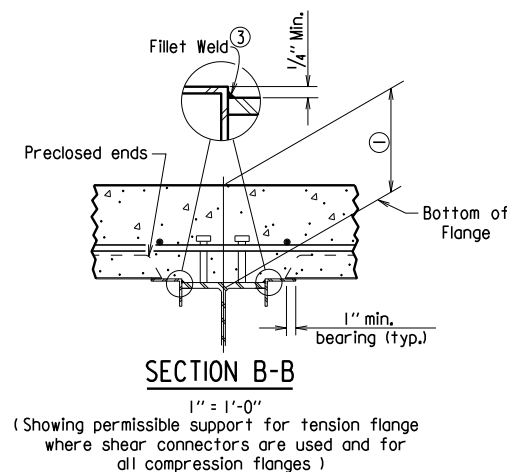
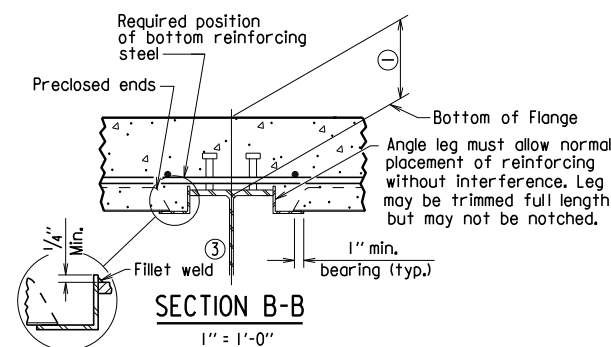
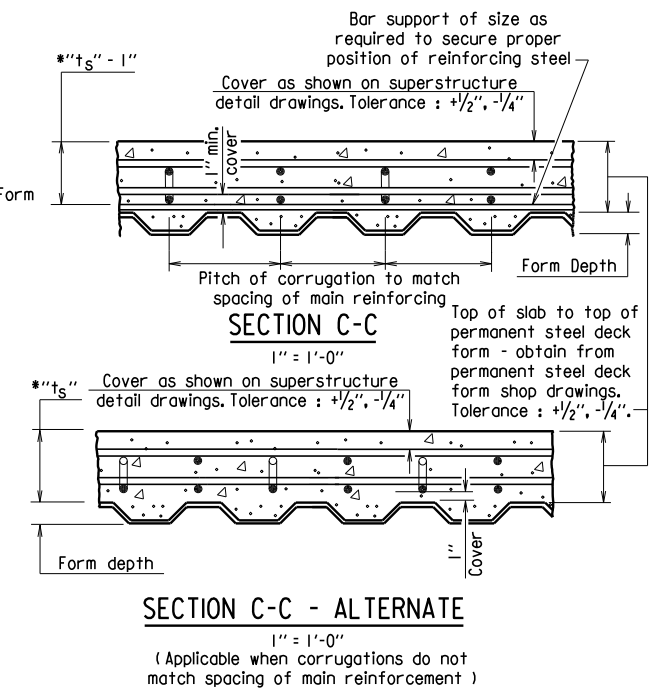
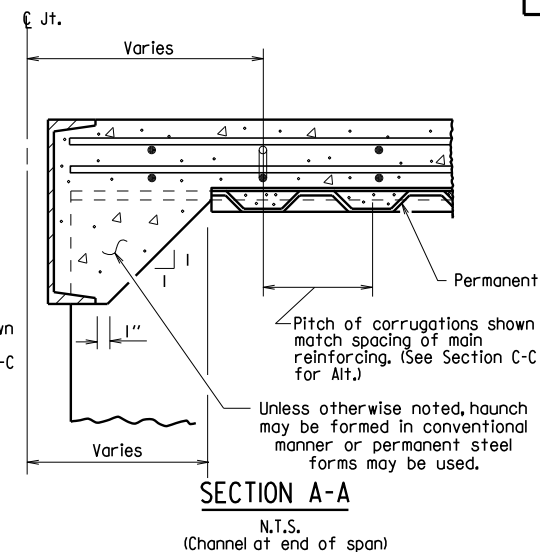
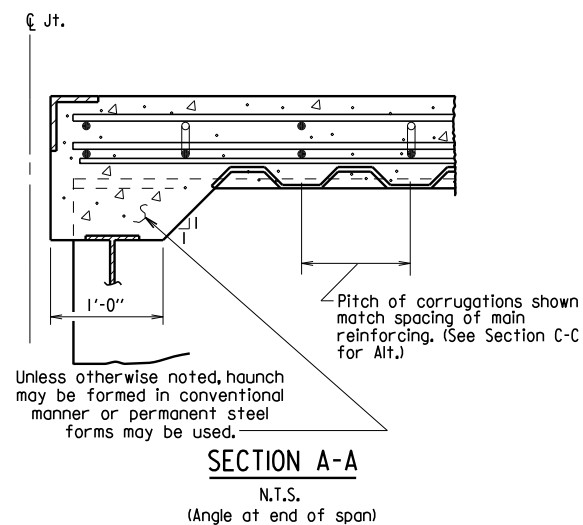
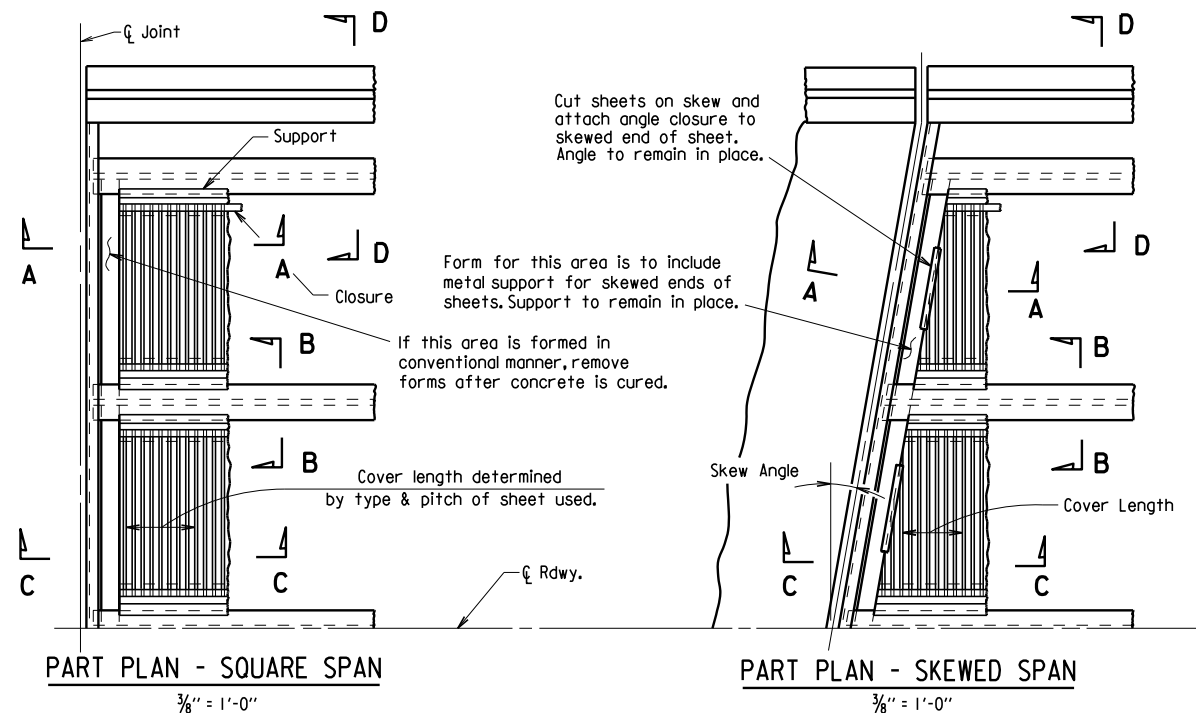
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: ACP DATE: 2/27/2014 FILENAME: b55002.dgn
CHECKED BY: BEF DATE: 2/27/2014 SCALE: AS SHOWN
DESIGNED BY: Std. DATE: ---

DRAWING NO. 55002

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3/24/16				6	ARK.			
				JOB NO.				
				BRIDGE DECK FORMS		55005		



* t_s = slab thickness as shown on superstructure detail drawings.

Permanent steel deck forms may be used at the Contractor's option and shall be at no additional cost to the Department. Such use may result in changes to the dead load deflection of the girder. Any cost for adjustments due to a change in the dead load deflection will be borne by the Contractor. Payment for deck concrete and structural steel will not be increased due to use of permanent steel deck forms.

Permanent steel deck forms shall conform to Subsection 802.14(b). Detailed plans, including detailed calculations and manufacturer's technical brochure, shall be submitted to and approved by the Engineer before work of forming the bridge deck is started.

Welding of form supports to the tension flange of steel girders will be permitted only in areas where shear connectors are used. When welding is not allowed, the method of fastening Z or L supports to the flange must be approved by the Engineer.

Form sheets shall be fastened to supporting members and to each other with galvanized metal screws sufficient in size and number to provide a secure attachment. Alternate methods of attachment must be approved by the Engineer.

When the pitch of form corrugations match the reinforcing spacing, transversely align form sheets across the bridge to maintain the correct orientation of continuous reinforcing bars in the corrugations.

Bar support rods, when used, shall be sized and spaced to adequately support the bottom reinforcing mat at the required position.

High chairs shall be sized to support the top mat of reinforcing at the proper position. High chairs shall be placed at locations shown on the detail drawings.

Specifications: Arkansas State Highway and Transportation Department
Standard Specifications for Highway Construction (2014 Edition), with
applicable Supplemental Specifications and Special Provisions.

STANDARD DETAILS FOR PERMANENT STEEL BRIDGE DECK FORMS FOR STEEL & CONCRETE GIRDER SPANS

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:	KDH	DATE:	2-27-2014	FILENAME:	b55005.dgn
CHECKED BY:	BEF	DATE:	2-27-2014	SCALE:	NONE
DESIGNED BY:	STD.	DATE:	—		

DRAWING NO. 55005

⚠ Revised weld dimension by KKY, Ck'd. by BEF, 3/24/16.

GENERAL NOTES

These GENERAL NOTES are applicable unless otherwise shown in the Plan Details, Special Provisions, or Supplemental Specifications.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Specifications.

DESIGN SPECIFICATIONS: See Bridge Layout(s).

SUPERSTRUCTURE NOTES:

MATERIALS AND STRENGTHS:

Class S(AE) Concrete	f'c = 4,000 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A)	fy = 60,000 psi
Structural Steel (AASHTO M 270, Gr. 36)	Fy = 36,000 psi
Structural Steel (AASHTO M 270, Gr. 50)	Fy = 50,000 psi
Structural Steel (AASHTO M 270, Gr. 50W)	Fy = 50,000 psi
Structural Steel (AASHTO M 270, Gr. HPS70W)	Fy = 70,000 psi

See Plan Details for Gradet(s) of Structural Steel required.

CONCRETE:

All concrete shall be Class S(AE) with a minimum 28 day compressive strength f'c = 4,000 psi. Concrete shall be poured in the dry and all exposed corners shall be chamfered 3/4" unless otherwise noted.

The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete. See Standard Drawing No. 55005 for allowable modifications and for tolerances when Permanent Steel Bridge Deck Forms are used.

Use of a longitudinal screed is not permitted on any span of a bridge deck with horizontal curvature.

The concrete deck (roadway surface) shall be given a tine finish in accordance with Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish. Sidewalks shall receive a broomed finish as specified for final finishing in Subsection 802.19 for Class 6 Broomed Finish. Movement of the finishing machine across new concrete shall be on planks placed on the surface and shall be prohibited for 72 hours after finishing the pour. Sufficient concrete must be placed ahead of the strike-off to fully load the beam or girder. When permitted, the use of a longitudinal strike-off will require that a vertical camber adjustment be made in the strike-off to account for the future dead load deflection due to any railings, median barrier, and sidewalks.

REINFORCING STEEL:

All reinforcing steel shall be Grade 60 conforming to AASHTO M 31 or M 322, Type A, with mill test reports and shall be epoxy coated. The reinforcing steel is to be accurately located in the forms and firmly held in place by steel wire supports, sufficient in number and size to prevent displacement during the course of construction. The wire supports will not be paid for directly, but will be considered subsidiary to the item "Epoxy Coated Reinforcing Steel (Grade 60)".

STRUCTURAL STEEL (COMMON TO W-BEAMS AND PLATE GIRDERS):

Structural steel shall be AASHTO M 270 with grade and payment as specified in the plans. Grade 50W steel shall not be painted and all exposed surfaces shall be cleaned in accordance with Subsection 807.84(e), Grade 36 and Grade 50 steel shall be painted unless otherwise noted and all exposed surfaces shall be cleaned in accordance with Subsection 807.84. Structural steel completely embedded in concrete may be AASHTO M 270, Gr. 36, Gr. 50 or Gr. 50W unless otherwise noted.

Drawings show general features of design only. Shop drawings shall be made in accordance with the specifications, submitted and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Payment will be based on the basis of shapes and materials shown in the plans, and no additional compensation will be made for any adjustments due to substitutions.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether permanent or temporary, a formal request with detailed drawings shall be submitted to the Engineer for approval; however, additional welds used for attaching falsework support devices or screed rail supports to the structural steel that do not exceed the limitations of Subsection 802.13 will not require approval prior to construction. All welding shall conform to Subsection 807.26.

Unless otherwise noted, field connections shall be bolted with 3/4" Ø high-strength bolts using 1/6" Ø open holes. Holes for 3/4" Ø high-strength bolts may be 1/6" Ø if a washer is supplied for use under both the nut and head of the bolt. The use of oversized holes will not be allowed on main members unless otherwise noted. Bolts shall be placed with heads on the outside face of the exterior beam or girder webs and on the bottom of the beam or girder flanges.

All stud shear connectors shall be granular flux filled, solid fluxed, or equal and shall be automatically end welded in accordance with recommendations of the Manufacturer.

When painting is required, all structural steel except galvanized steel and steel completely encased in concrete shall be painted in accordance with Subsection 807.75. The color of paint shall be as specified in the plans.

STRUCTURAL STEEL (W-BEAMS):

All beams and field splice plates, and all diaphragms and connection plates attached to horizontally curved beams are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Subsection 807.05. This work and material will not be paid for directly, but shall be considered subsidiary to the item "Structural Steel in Beam Spans (M 270, Gr. ___)".

All beams in continuous units and simple spans with field splices shall be blocked in their true position in the shop in groups as specified in Subsection 807.54(b)(2) with the webs horizontal. The camber, length of sections, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records. The component parts shall be match marked in this assembly and these marks shall be shown on the erection diagram.

All beams in simple spans without field splices shall be blocked in their true position with webs horizontal. The camber, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records.

Flange field splice plates shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses.

All beam dimensions are based on a temperature of 60 degrees F. A tolerance of 1/4" +/- is allowed for camber.

Bent plate diaphragms for horizontally curved beams shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses. Bent plate diaphragms for straight beams may be cut and fabricated in accordance with Subsection 807.35 or as required for horizontally curved beams.

Unless otherwise noted, diaphragms shall be installed as beams are erected. All bolts in diaphragms and field splices shall be installed and tightened in accordance with Subsection 807.71 prior to pouring the concrete deck.

STRUCTURAL STEEL (PLATE GIRDERS):

All references to cross-frames shall include "X" or "K" types.

All girder web and flange plates, all field splice plates, and all diaphragms, cross-frames and connection plates attached to horizontally curved girders are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Subsection 807.05. This work and material will not be paid for directly, but shall be considered subsidiary to the item "Structural Steel in Plate Girder Spans (M 270, Gr. ___)".

All girders in continuous units and simple spans with field splices shall be assembled in the shop as specified in Subsection 807.54(b)(2) and blocked in their true position with webs horizontal. The camber, length of sections, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records. The component parts shall be match marked in this assembly and these marks shall be shown on the erection diagram.

All girders in simple spans without field splices shall be blocked in their true position with webs horizontal. The camber, distance between bearings, and openings of joints shall be measured and this information shall become part of the permanent records.

Web and flange plates for main members and flange splice plates for main members shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses.

Girder webs may be made by shop splicing with minimum lengths of 25 feet for sections. Flange plates longer than 50 feet may be made by shop splicing with minimum lengths of 25 feet for sections. No additional payment will be made for shop welded splices.

All girder dimensions are based on a temperature of 60 degrees F. A tolerance of 1/4" +/- is allowed for camber.

Groove welds in web and flange plates shall be Quality Control (Q.C.) tested by nondestructive testing, as required in Subsection 807.23(b). Fillet welds at flange to web plate connections shall be Q.C. tested by the magnetic particle method. All Q.C. testing shall be considered subsidiary to the item "Structural Steel in Plate Girder Spans (M 270, Gr. ___)".

Bent plate diaphragms for horizontally curved girders shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses. Bent plate diaphragms for straight girders may be cut and fabricated in accordance with Subsection 807.35 or as required for horizontally curved girders.

Unless otherwise noted, cross-frames and diaphragms shall be installed as girders are erected. All bolts in cross-frames, diaphragms, and field splices shall be installed and tightened in accordance with Subsection 807.71 prior to pouring the concrete deck.

SUBSTRUCTURE NOTES:

CONCRETE:

Unless otherwise noted, concrete in caps, columns and footings (except seal footings) shall be Class "S" with a minimum 28 day compressive strength f'c = 3,500 psi and shall be poured in the dry. Seal Concrete for footings shall have a minimum 28 day compressive strength f'c = 2,100 psi.

Concrete in drilled shafts shall be Class "S" as modified by Job SP "Drilled Shaft Foundations".

All exposed corners shall be chamfered 3/4" unless otherwise noted.

REINFORCING STEEL:

All reinforcing steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M 31 or M 322, Type A, with mill test reports.

Top reinforcing bars in cap shall be properly placed to avoid interference with anchor bolts or sheet metal sleeves.

STRUCTURAL STEEL:

Structural steel in end bents shall be AASHTO M 270 with grade and payment as specified in the plans.

FOR ADDITIONAL INFORMATION AND NOTES, SEE LAYOUT(S) AND PLAN DETAILS.

STANDARD GENERAL NOTES
FOR STEEL BRIDGE STRUCTURES

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

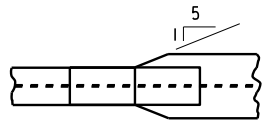
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DESIGNED BY:	STD.	DATE:			

DRAWING NO. 55006

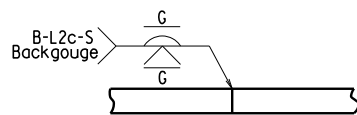


Plan-Unequal Width (Fig.)

FLANGE SPLICE

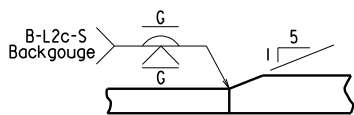


FLANGE SPLICE AT UNEQUAL BOTTOM FLANGE WIDTHS



Equal Thickness

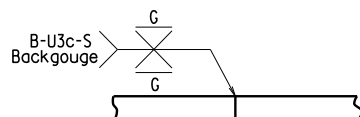
WEB & FLANGE SPLICE



Unequal Thickness

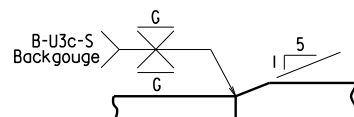
FLANGE SPLICE

(Use when Base Metal Thickness is Equal to or Less than 2")



Equal Thickness

WEB & FLANGE SPLICE

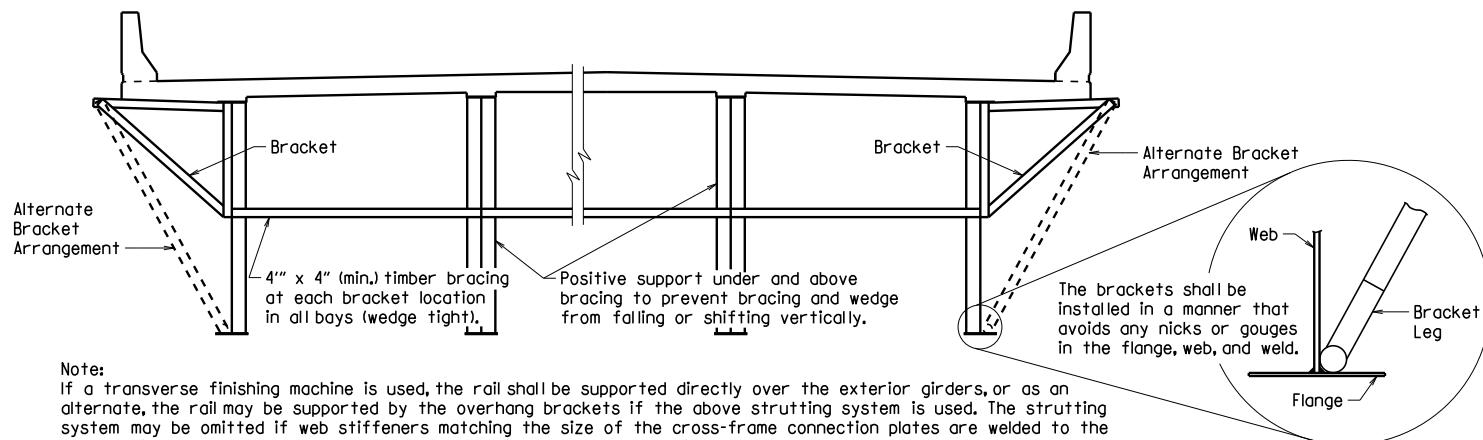


Unequal Thickness

FLANGE SPLICE

(Use when Base Metal Thickness is Greater than 2")

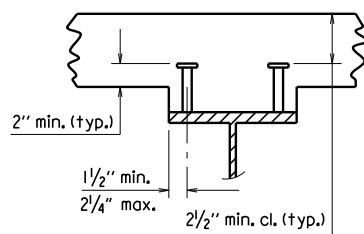
DETAILS OF WELDED SPLICES FOR PLATE GIRDERS



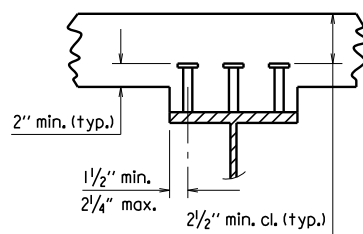
Note:
If a transverse finishing machine is used, the rail shall be supported directly over the exterior girders, or as an alternate, the rail may be supported by the overhang brackets if the above strutting system is used. The strutting system may be omitted if web stiffeners matching the size of the cross-frame connection plates are welded to the insides of the exterior girders at the location of each bracket or if the alternate bracket arrangement shown above is used. The Alternate Bracket arrangement shall extend down to the junction of the web and bottom flange. The stiffener shall conform to the details for cross frame connection plates shown on the plans. No direct payment will be made for brackets, timber bracing, supports, or welded stiffeners. Payment shall be subsidiary to "Structural Steel in Plate Girder Spans ()".

SCREED RAIL SUPPORT FOR PLATE GIRDERS

(USE WHEN WEB DEPTHS ARE 48" OR GREATER)



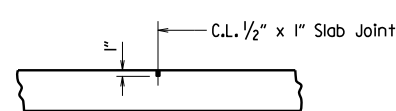
2 STUDS PER ROW



3 STUDS PER ROW

Stud Shear Connectors shall be automatically end welded to the beam or girder flange in accordance with the recommendations of the Manufacturer. See plan details for number and size.

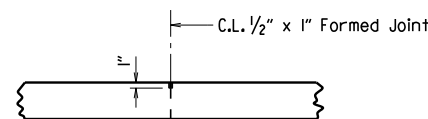
SHEAR CONNECTOR DETAIL



Use Type 3 or 4 Joint Sealer. See Subsections 50L02(h) and 50L05(j). Backer Rod filler will not be required. Joint Sealer shall be measured and paid for as Class S(AE) Concrete-Bridge. Slab Joints shall extend to the outside edge of the deck slab and shall align with open joints at the front face of the parapet. Slab joints shall be installed before the parapet railing is poured. If slab joints are to be sawed, they shall be sawed as soon as the concrete has sufficiently set to allow sawing of the joint without damage to the slab. Slab joints shall be placed at all pouring sequence construction joints and required slab joint locations. The joint sealer shall extend across the deck from gutterline to gutterline.

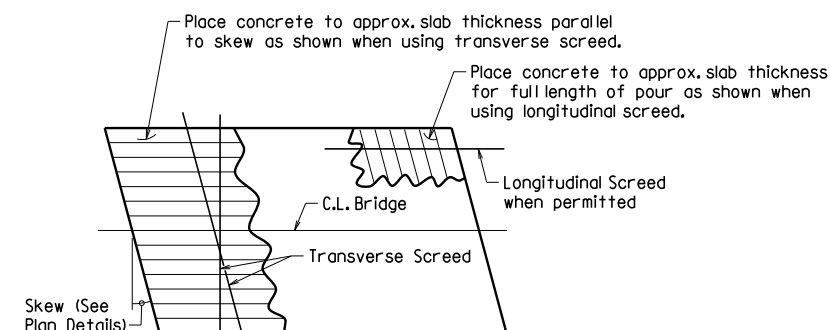
ADDITIONAL NOTES IF SIDEWALKS OR RAISED MEDIANS ARE REQUIRED:
Slab Joints shall be installed before the sidewalk or raised median is poured. After installation of the joint in the sidewalk or raised median and prior to pouring the parapet rail, the joint sealer shall be placed extending across the deck slab from gutterline to gutterline and across the top of the sidewalk or raised median to the edge of the slab. No joint sealer shall be placed on the deck slab under the sidewalk or raised median.

TRANSVERSE SLAB JOINT DETAIL



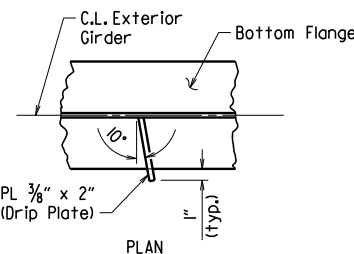
Use 1/2" x 1" Type 3 or 4 Joint Sealer. See Subsections 50L02(h) and 50L05(j). Backer Rod filler will not be required. Joint sealer shall be measured and paid for as Class S(AE) Concrete-Bridge. This joint shall be formed. Seal color shall be gray or other color similar to concrete.

LONGITUDINAL CONSTRUCTION JOINT



Note: At the Contractor's option, the transverse screed may be placed parallel to the skew or perpendicular to C.L. Bridge.

CONCRETE PLACEMENT PROCEDURE FOR BRIDGES WITH SKEW



Drip Plate to be welded to the outer side of the bottom flange of the exterior girders.

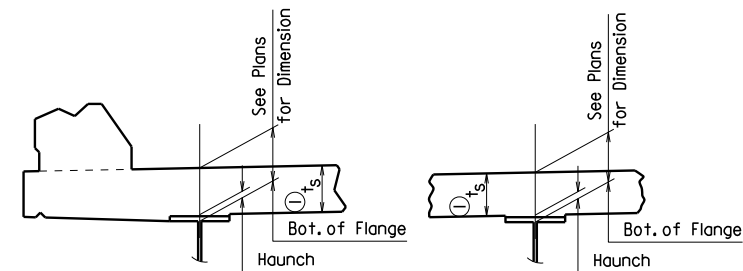
Locate drip plate 5'-0" from C.L. Bearing on high side of each Bent, unless otherwise noted in the plans.

BOTTOM FLANGE DRIP PLATE

(USE WHEN WEB DEPTHS ARE 54" OR GREATER AND UNIT OR SPAN IS NOT IN LEVEL GRADE)

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
STEEL BRIDGE STRUCTURES								55007

t_s = slab thickness. See "Typical Roadway Section" in the plans.



EXTERIOR BEAM OR GIRDER

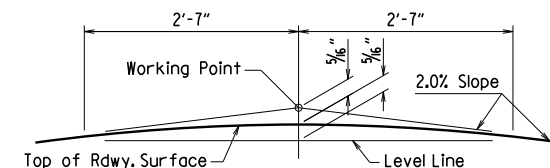
INTERIOR BEAM OR GIRDER

① Tolerance when removable deck forming is used is + 1/2", - 1/4". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

NOTES:
Haunch dimension may vary within the following limits to maintain the grade and slab thickness tolerance: Minimum occurs when top flange contacts bottom reinforcing steel; Maximum = top flange thickness plus 1 3/4" unless otherwise noted in the plans. No increase in concrete and structural steel quantities will be made to maintain tolerances.

Tolerances shown are applicable only when removable deck forming is used. See Std. Dwg. No. 55005 for tolerances when permanent steel deck forms are used. Payment for concrete shall be based on removable deck forming.

ADJUSTMENT FOR SLAB THICKNESS TOLERANCE



NOTE: Working Point matches Theoretical Roadway Grade.

ROUNDING DETAIL

BRIDGES IN NORMAL CROWN

WELD TABLE

Material Thickness of Thicker Part Joined (Inches)	Minimum Size of Fillet Weld (Inches)	Single Pass Weld Must Be Used
To 3/4" Inclusive	1/4"	
Over 3/4"	5/16"	

NOTE: When a fillet weld size, as shown on the plans, is larger than the minimum, the first pass shall be that specified for minimum size of fillet weld.

SECTION AND SUBSECTION REFER TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION).

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

STANDARD DETAILS FOR STEEL BRIDGE STRUCTURES

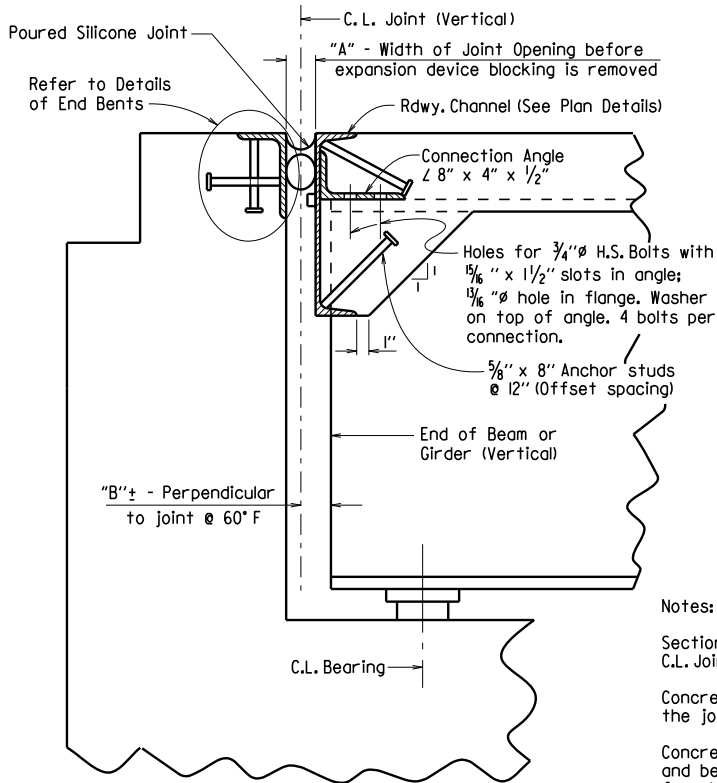
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

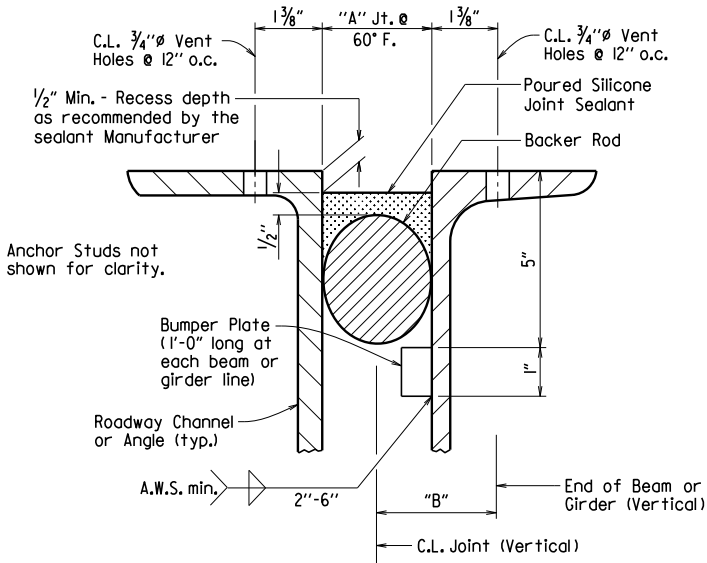
DRAWN BY: JYP	DATE: 2/11/2016	FILENAME: b55007.dgn
CHECKED BY: AMS	DATE: 2/11/2016	SCALE: No Scale
DESIGNED BY: STD.	DATE: —	

DRAWING NO. 55007

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		POURED SILICONE JOINT		55008



SECTION THRU JOINT AT END BENT



DETAIL OF POURED SILICONE JOINT

Silicone joint material and installation shall conform to Section 809. The temperature limitations recommended by the sealant Manufacturer shall be observed. The sealant shall be installed only when the average 24 hour air temperature is between 40° and 80° F.

Use an appropriately sized backer rod at the depth shown in the Manufacturer's literature based on the joint width at the time of sealing. Unless otherwise noted, do not install more backer rod than can be sealed in the same day.

The Contractor shall verify separation of the backer rod from the joint material after the joint material has set.

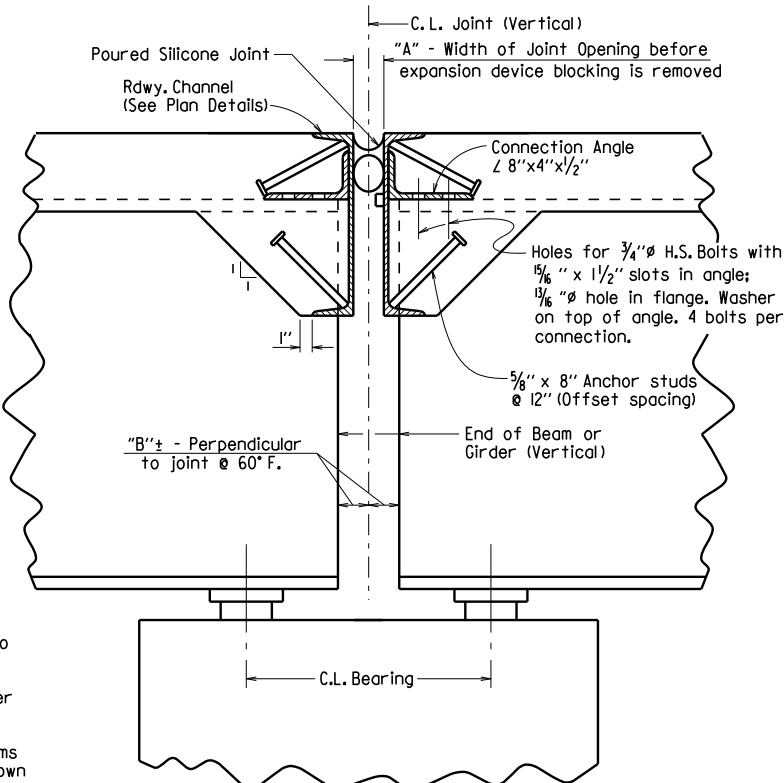
When bridge deck is constructed in stages, backer rods shall be extended beyond length of poured joint in initial construction stage so that the two pieces can be properly spliced together prior to installing sealant in subsequent stages. Manufacturer's recommendations shall be followed to prevent sealant from "running out of joint" during stage construction.

Notes:

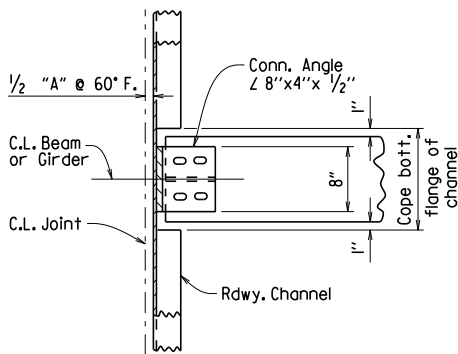
Sections are taken perpendicular to C.L. Joint.

Concrete shall be hand packed under the joint armor.

Concrete diaphragms, steel diaphragms and bearing stiffeners are not shown for clarity. See plans for details.

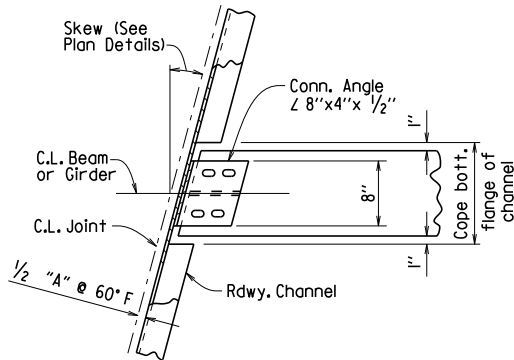


SECTION THRU JOINT AT INTERMEDIATE BENT



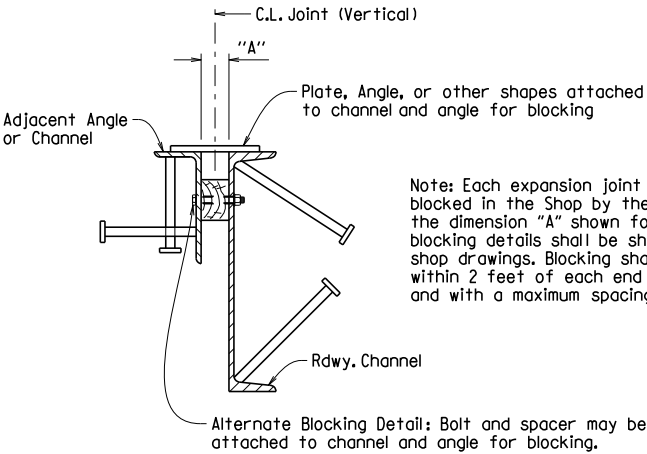
CHANNEL CONNECTION DETAIL

BENTS WITHOUT SKEW



CHANNEL CONNECTION DETAIL

BENTS WITH SKEW



DETAILS FOR BLOCKING EXPANSION JOINT DEVICE

EXPANSION DEVICE INSTALLATION AT END BENTS:

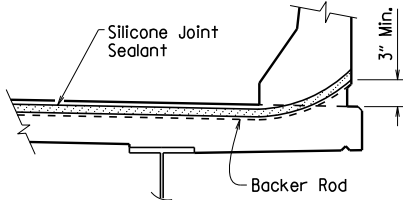
The Contractor may elect to install the expansion device using one of the following two alternatives:

- 1) The concrete span pour adjacent to joint shall be placed before the end bent backwall is placed. After the end bent backwall forms are in place and the beams or girders erected, the blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the bent. Immediately prior to pouring the backwall concrete, the blocking shall be removed, and the opening adjusted for temperature and grade.
- 2) The backwall shall be poured to the optional construction joint after beams or girders are erected. The blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the bent. Immediately prior to pouring the remainder of the backwall concrete, the blocking shall be removed and the opening adjusted for temperature and grade.

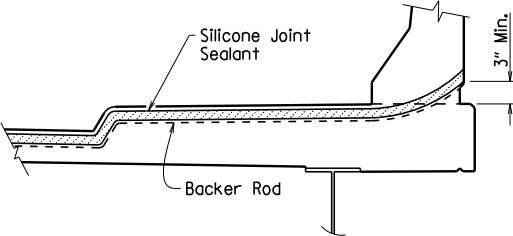
EXPANSION DEVICE INSTALLATION AT INTERMEDIATE BENTS:

After all beams or girders on each side of the joint are erected the blocked expansion device shall be installed and adjusted for grade. Deck concrete shall be placed for the entire unit or span on one side of the joint before deck concrete on the other side is placed. Connection bolts for the first side to have deck concrete placed shall be completely bolted. Bolts on the other side shall be loosely installed so that thermal and rotational movements will not be restricted during concrete placement on the first side.

Connection bolts on the second side shall remain loose until the concrete pour adjacent to the joint is to be placed. Immediately prior to pouring the span concrete on the second side, the blocking shall be removed, the joint adjusted for temperature and grade, and the connection bolts tightened.



JOINT SEAL PLACEMENT AT RAIL



JOINT SEAL PLACEMENT AT SIDEWALK

SECTION AND SUBSECTION REFER TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION).

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS. SEE "TABLE OF SILICONE JOINT DATA" IN PLAN DETAILS FOR VARIABLES "A" AND "B", AND BUMPER PLATE SIZE.

STANDARD DETAILS FOR POURED SILICONE JOINTS

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: A.C.P. DATE: 2/11/2016 FILENAME: b55008.dgn
CHECKED BY: A.M.S. DATE: 2/11/2016 SCALE: No Scale
DESIGNED BY: STD. DATE: —

DRAWING NO. 55008

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
4-14-23		6	ARK.			
TYPE D NAME PLATE - 55010						

The name of the bridge as shown on the plans shall be placed on Lines 1 & 2 using $\frac{1}{8}$ " raised letters and numerals $\frac{3}{8}$ " high.

Line 1 Example 1 RED RIVER
Line 2 Example 2 SOUTHERN RAILROAD OVERPASS
Example 3 SALINE RIVER RELIEF
Example 4 HIGHWAY 5

GENERAL NOTES

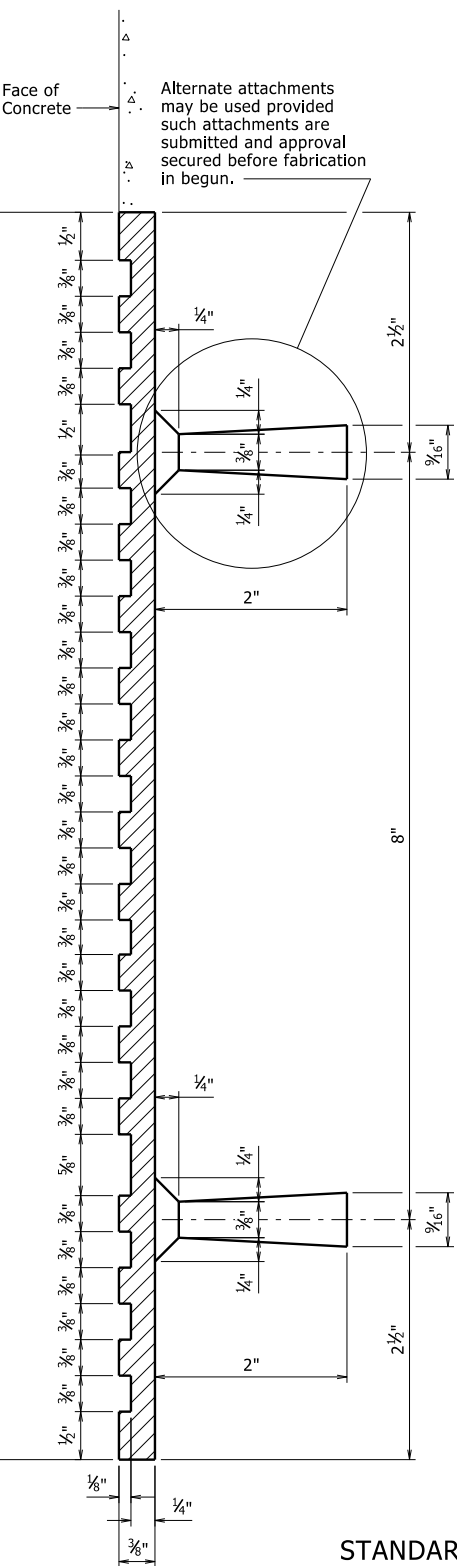
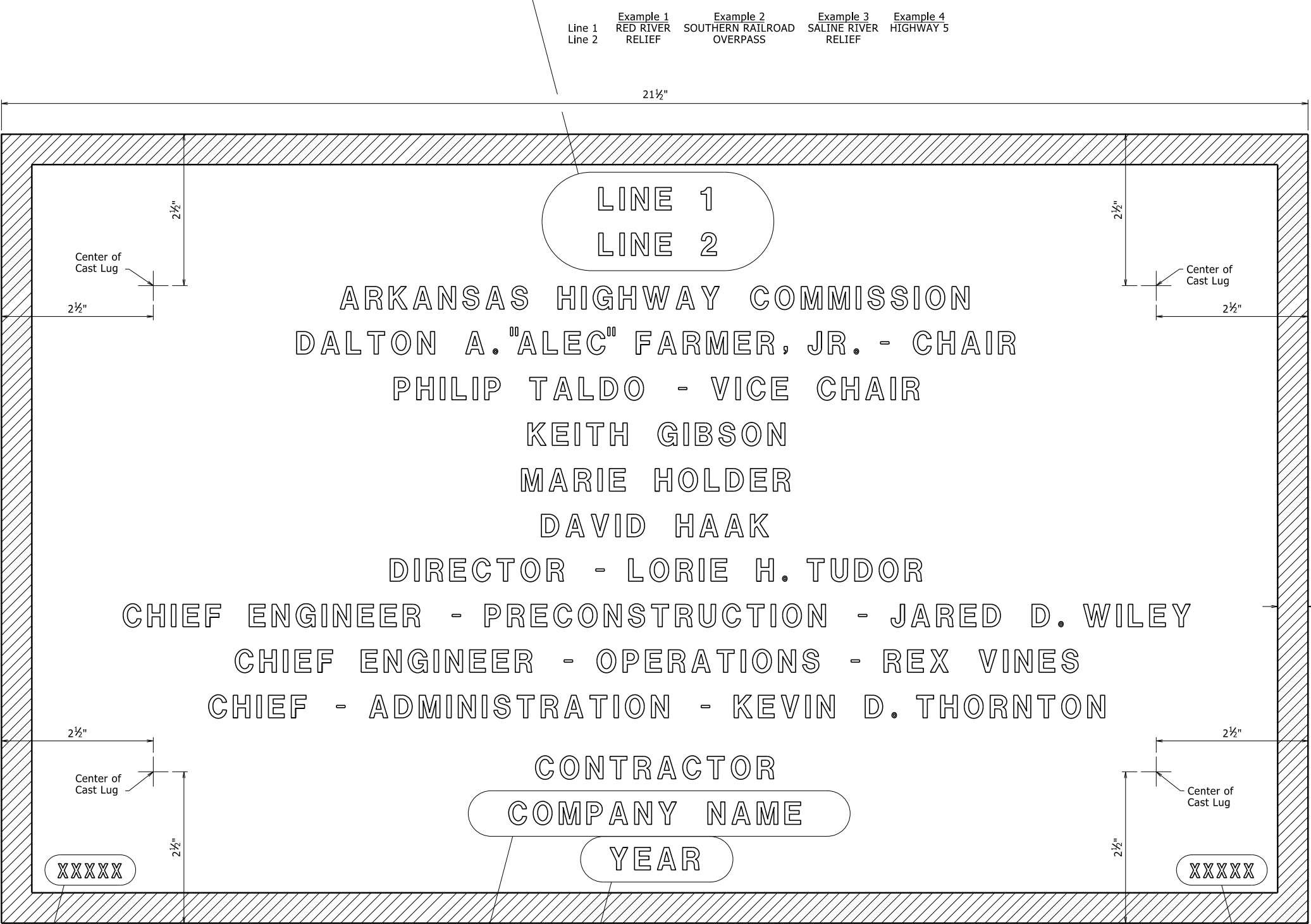
Specifications: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, (2014 Edition) with applicable Supplemental Specifications and Special Provisions.

Name plates shall be cast bronze and shall meet the material requirements as specified in Section 812.

Body of plate shall be $\frac{1}{4}$ " thick and shall include four tapering cone lugs $\frac{3}{8}$ " to $\frac{1}{16}$ " x 2" long. The border and all lettering shall be raised $\frac{1}{8}$ " above the face of plate and shall be polished.

All lettering shall be plain gothic, square cut and not tapered.

The number of plates required and the location and name on the plate for each bridge shall be as designated on the plans.



1 Revised and Redrawn
4-14-23 CGP Checked By: CRE

STANDARD DETAILS FOR
TYPE D BRIDGE NAME PLATE

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 2-27-2014 FILENAME: b55010.dgn
CHECKED BY: BEF DATE: 2-27-2014 SCALE: NO SCALE
DESIGNED BY: STD. DATE:

DRAWING NO. 55010

TYPICAL BRIDGE NAME PLATE

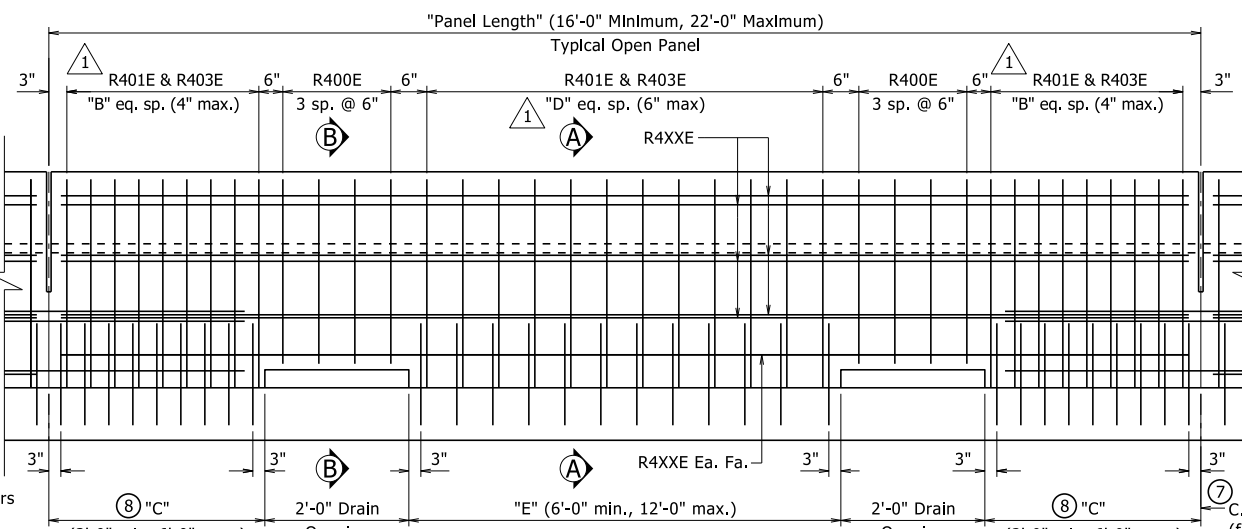
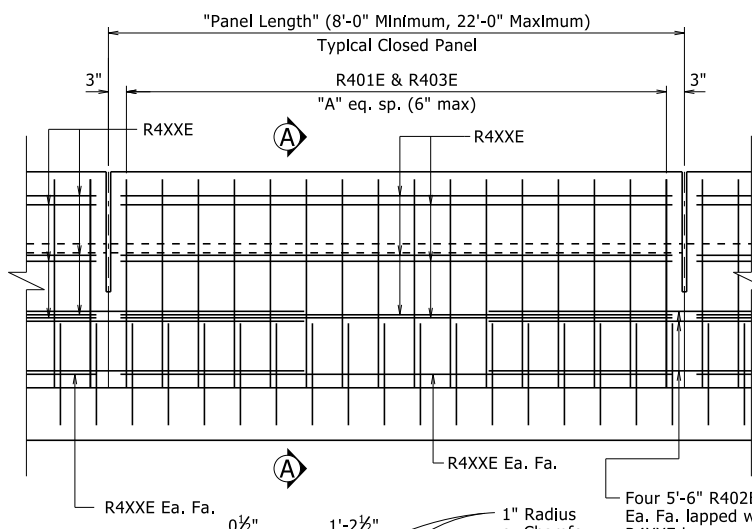
Place the Bridge number here using $\frac{1}{8}$ " raised letters and numerals $\frac{1}{4}$ " high. Examples: A1234 05432

Place the name of the company awarded the construction contract here using $\frac{1}{8}$ " raised letters and numerals $\frac{3}{8}$ " high. Example: ABCD CONSTRUCTION, INC.

Place the Year in which Contract was awarded here using $\frac{1}{8}$ " raised numerals $\frac{3}{8}$ " high. Example: 2001

Place the design live loading here using $\frac{1}{8}$ " raised letters and numerals $\frac{1}{4}$ " high. Examples: HS20 HL-93

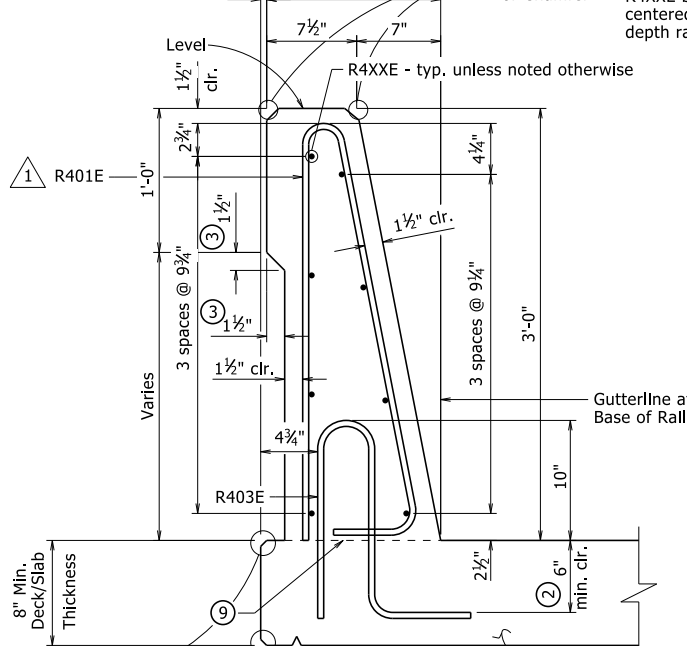
PRINT DATE: 10/6/2022



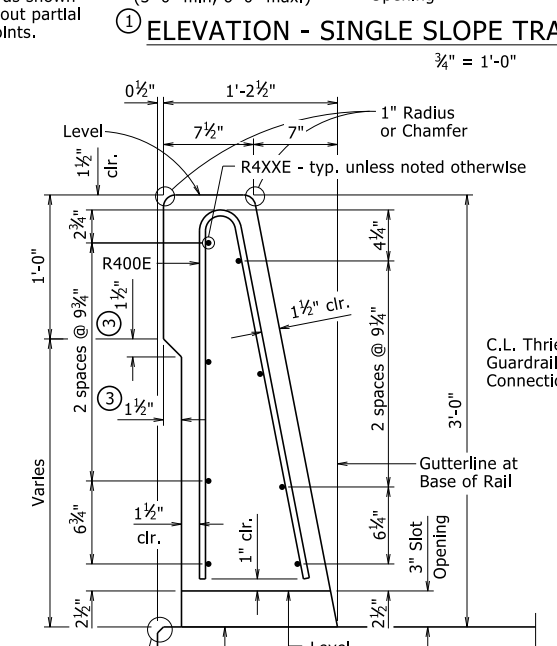
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
09/27/2022				6	ARK.			
				JOB NO.				

TYPE SSTR36 - 55070

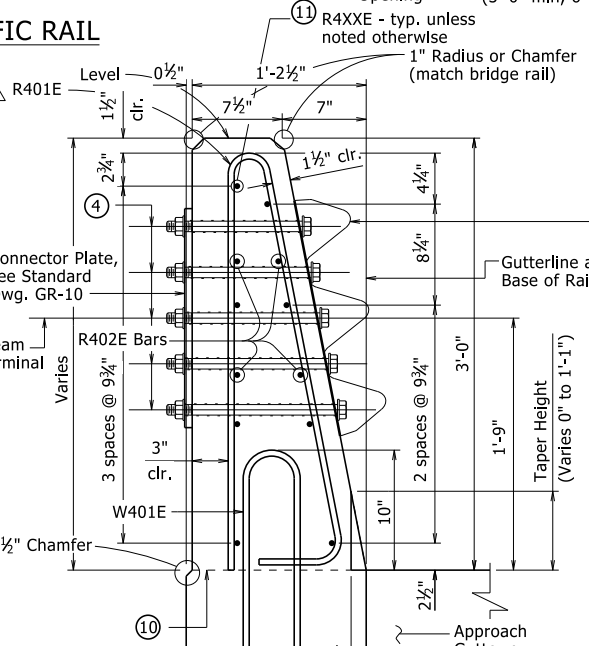
- C.L. Full-Depth Rail Joint (formed width 1/4" to 1" max). Stop 6" from top of deck/slab or sidewalk. Place at all intermediate bents locations where rail is continuous.
- All measurements shown are along gutterline at base of rail.
 - Minimum embedment into deck/slab.
 - Eliminate recess when formliner with architectural finish is used. See Plans for additional information.
 - C.L. 1" ϕ formed holes for 7/8" ϕ bolts. See Standard Drawings GR-10 and GR-12 for additional information.
 - Only applicable for bridges with rail cast directly on bridge deck/slab surface. Increase height as necessary for sidewalks, see Plans for additional information.
 - Field bend front leg of R401E bar as required to maintain minimum 1 1/2" front face clearance within limits of taper.
 - When optional slip forming is used: to control cracking, all rail joints must be V-grooved around the perimeter of the rail prior to concrete set and sawing. Depth of V-groove shall be 1/2". Sawing of the joints shall be done as soon as practical to a width of 1/4", and must be controlled so it will follow the V-Groove.
 - End posts shall be the same length within a panel.



SECTION A-A
1 1/2" = 1'-0"

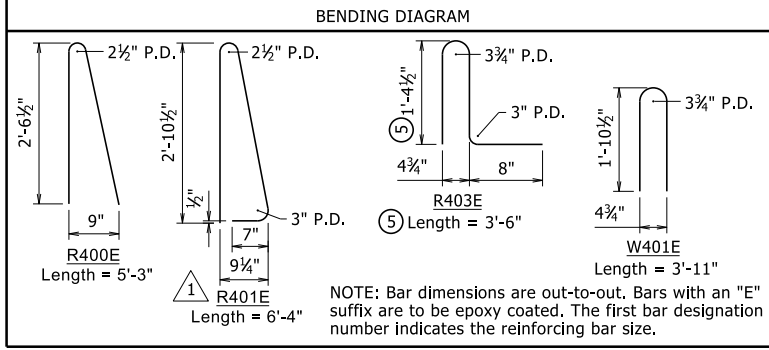


SECTION B-B
1 1/2" = 1'-0"

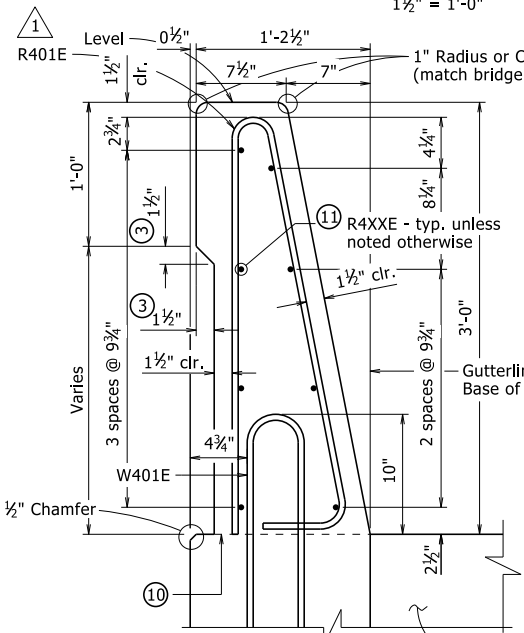
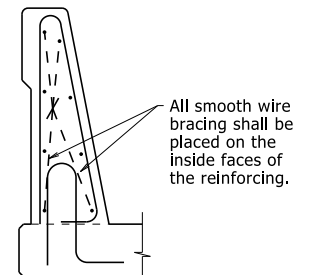
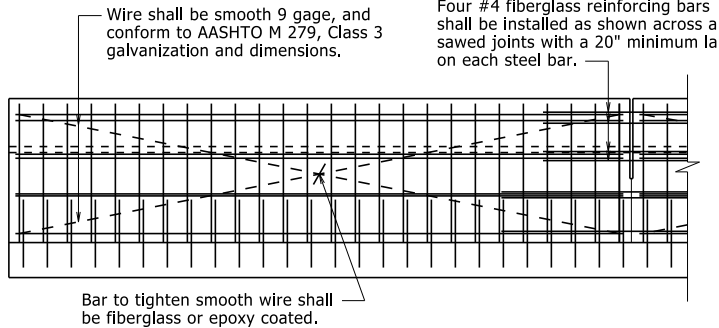


SECTION C-C
1 1/2" = 1'-0"

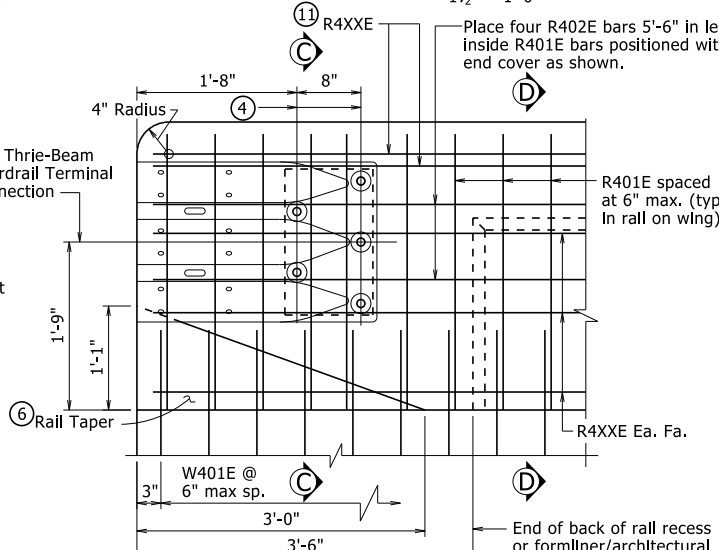
Bolt Special End Shoe to face of rail as shown. Tapered washers are not required between the head of the bolts and the sloped face of the rail. Tighten the five terminal connection bolts in a well distributed pattern to prevent damage or distortion of the thrie-beam connection. Cut bolts off after installation so as to extend no more than 3/4" beyond nut. Paint ends of cut-off bolts with zinc-rich paint. This work and material will not be paid for directly but shall be considered subsidiary to associated contract items.



NOTE: Bar dimensions are out-to-out. Bars with an "E" suffix are to be epoxy coated. The first bar designation number indicates the reinforcing bar size.



SECTION D-D
1 1/2" = 1'-0"



RAIL TERMINUS DETAILS
1" = 1'-0"

- Required Construction Joint. Level where water flows away from rail, match roadway slope where water flows toward rail.
- Top of Abutment Wing & Required Construction Joint (match bridge deck/slab construction joint slope). See Plans for Wing reinforcing.
- These bars will not be included in the "Table of Variables". See Plans for details.

TABLE OF VARIABLES

Closed Rail Panels			Open Rail Panels				
Panel Length	A	R4XXE	Panel Length	B	C	D	E

See Plans for table with values.

GENERAL NOTES

This rail has been successfully evaluated by full-scale crash test to meet MASH TL-4 criteria.

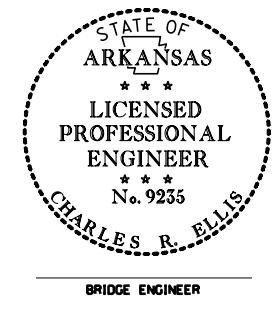
Details shown are general for bridges without sidewalks. See Plans for additional details and requirements specific to bridges with sidewalks.

For Table of Variables, Rail Bar List, locations of Full and Partial Depth Rail Joints, and Wing & Rail Bar Lists, see Plans.

For location of drain openings, see Plans. Drain openings shown are not applicable for bridges with sidewalks. Drain openings will not be allowed over Railroad Right of Way, travelled roadways, and protected waterways.

Rail Terminus details, including Rail Taper, are not applicable for bridges with sidewalks or when bridge railing is continuous with roadway railing.

Scales shown are for 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.



BRIDGE ENGINEER

DETAILS OF OPTIONAL SLIP FORMING OF BRIDGE TRAFFIC RAIL

- Modified bending diagram and spacing for R401E bar.
- By: CGP, Checked by: CMW 09/27/2022

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

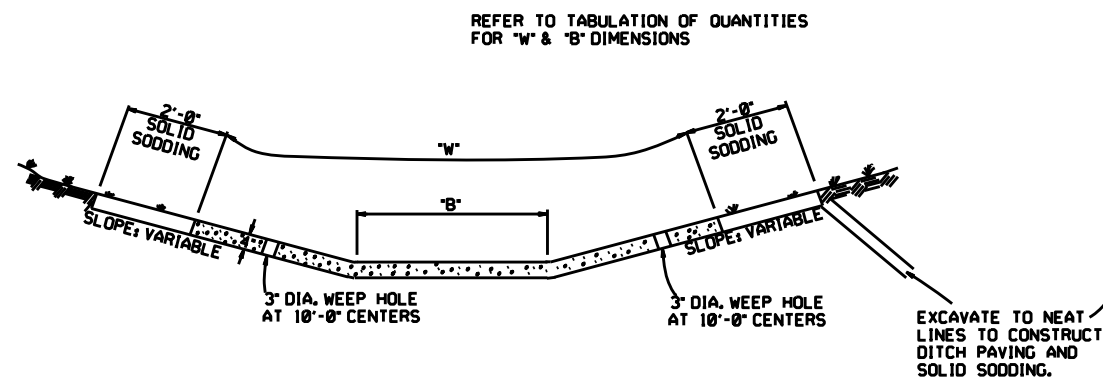
**STANDARD DETAILS FOR
BRIDGE TRAFFIC RAIL
TYPE SSTR36**

ARKANSAS STATE HIGHWAY COMMISSION

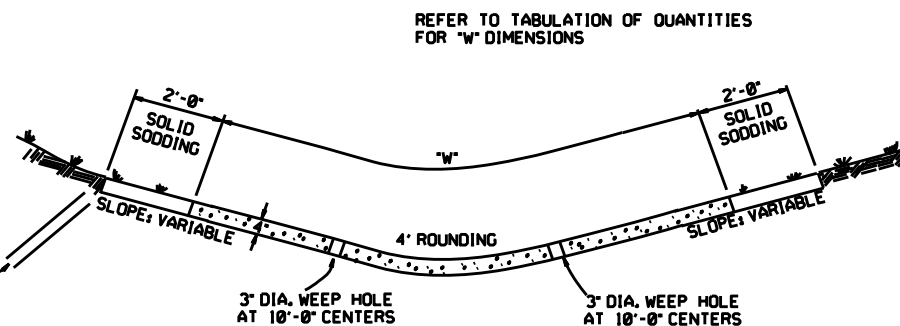
LITTLE ROCK, ARK.

DRAWN BY: KKY DATE: 11/5/2020 FILENAME: b55070.dgn
CHECKED BY: LJB DATE: 11/5/2020 SCALE: As Noted
DESIGNED BY: STD. DATE: ----

DRAWING NO. 55070

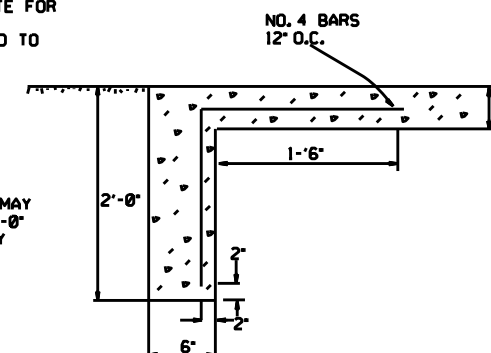


TYPE A

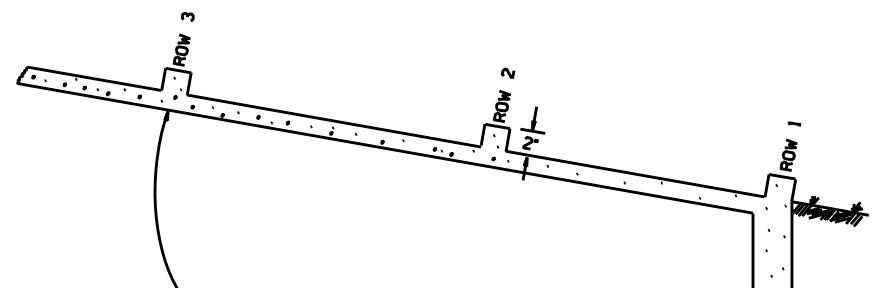


TYPE B

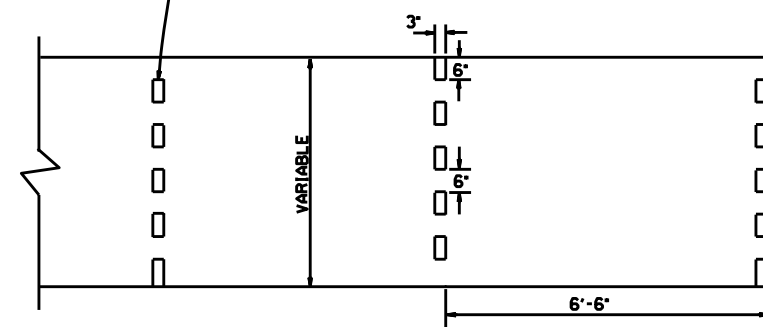
THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR "CONCRETE DITCH PAVING."



TOE WALL DETAIL FOR CONCRETE DITCH PAVING



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)

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.

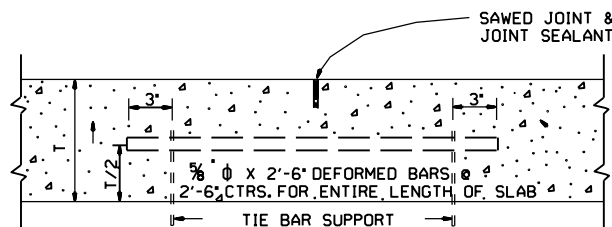
1' WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

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	
10-2-72	TYPED A & B	
	REVISED AND REDRAWN	508-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

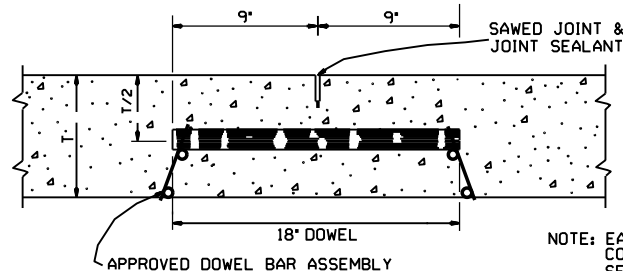
CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

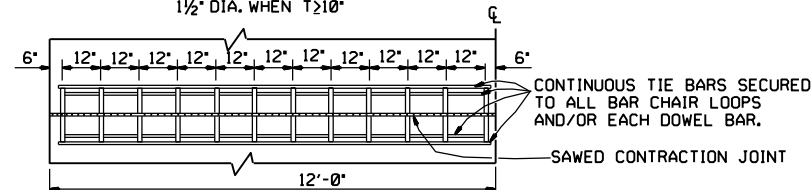


LONGITUDINAL JOINT

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.



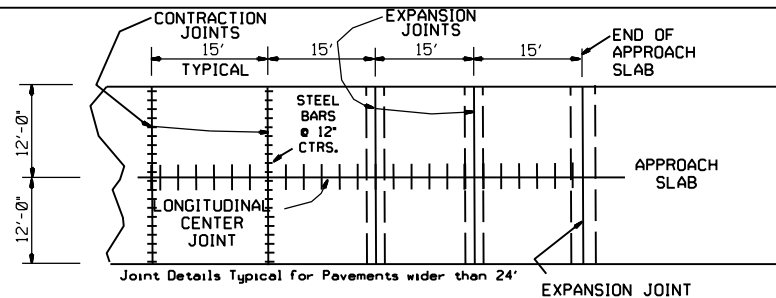
ROUND STEEL BAR DOWEL
1 1/4" DIA. WHEN T < 10"
1 1/2" DIA. WHEN T ≥ 10"



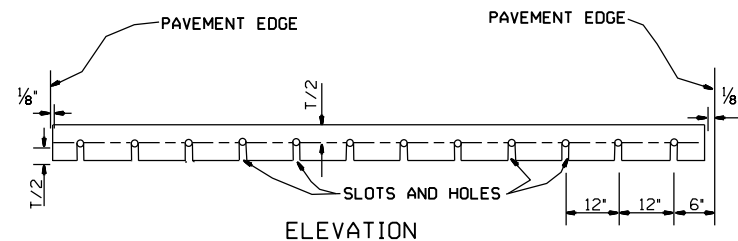
ONE-HALF 24' PAVEMENT
12 DOWELS
PLAN

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

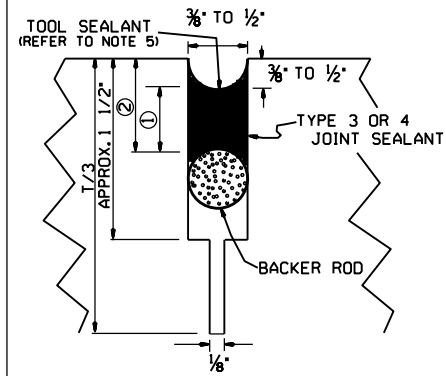
CONTRACTION JOINT DETAILS



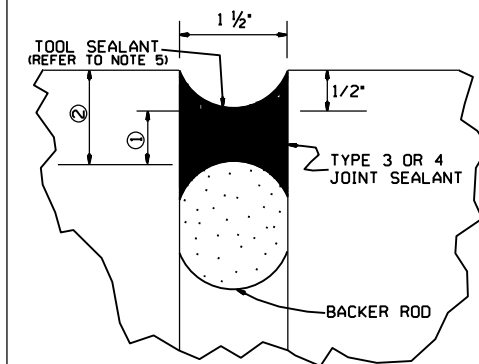
PLAN SHOWING EXPANSION JOINTS AT
BRIDGE APPROACH SLABS



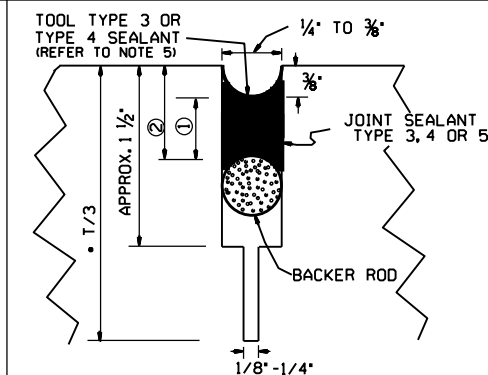
NOTE: ALL DOWEL BARS SHALL CONFORM TO THE DETAILS FOR CONTRACTION JOINTS.



DETAIL OF SAWED CONTRACTION
JOINT



DETAIL OF EXPANSION JOINT



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

DETAIL OF SAWED
LONGITUDINAL JOINT
AND LONGITUDINAL CONSTRUCTION JOINT

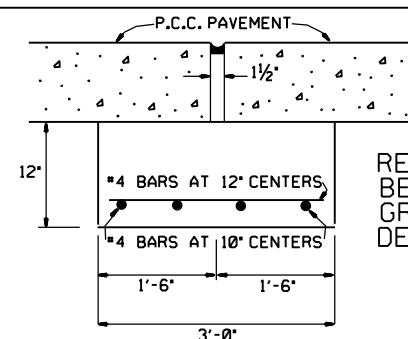
11-07-19	REV. EXP. JOINT REF ON APP. SLAB	
5-25-06	ADDED GENERAL NOTE 7	
10-9-03	REMOVED TIE BAR COATING & REVISED GENERAL NOTES	
11-16-01	ADDED TOOL SEALANT AND NOTE 5; REVISED NOTE 3	
4-26-96	REVISED CONTRACTION JOINT NOTE	
11- 3-94	ADDED NOTE RE: REINF. BARS	
4- 1-93	REVISED DOWEL BARS & GEN. NOTES	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
DATE	REVISION	DATE FILMED

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
1/2	1/4	1/2	1/2
1/2	1/4	3/4	1/2
3/4	3/8	3/4	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



DETAIL OF JOINT SUPPORT
FOR EXPANSION JOINTS

REINFORCING SHALL
BE GRADE 40 OR
GRADE 60
DEFORMED BARS.

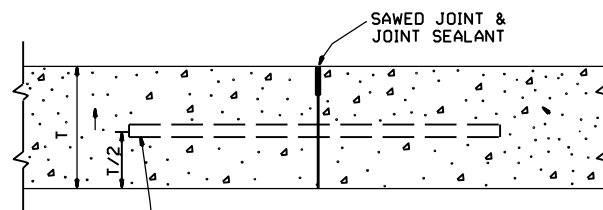
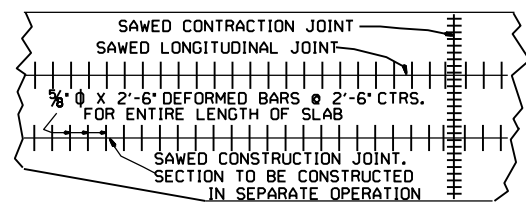
GENERAL NOTES

1. "T" DENOTES THICKNESS OF SLAB.
2. 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.
3. 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.
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED ON 15' CENTERS.
5. TOOLING NOT REQUIRED FOR SELF-LEVELING SILICONE.
6. 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.
7. TIE WIRES IN DOWEL BAR ASSEMBLIES SHALL NOT BE CUT PRIOR TO PLACEMENT OF PAVING CONCRETE.

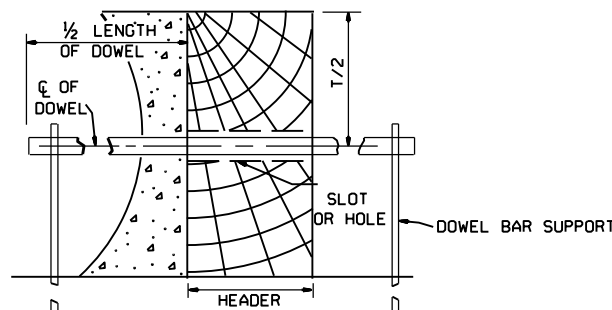
ARKANSAS STATE HIGHWAY COMMISSION

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

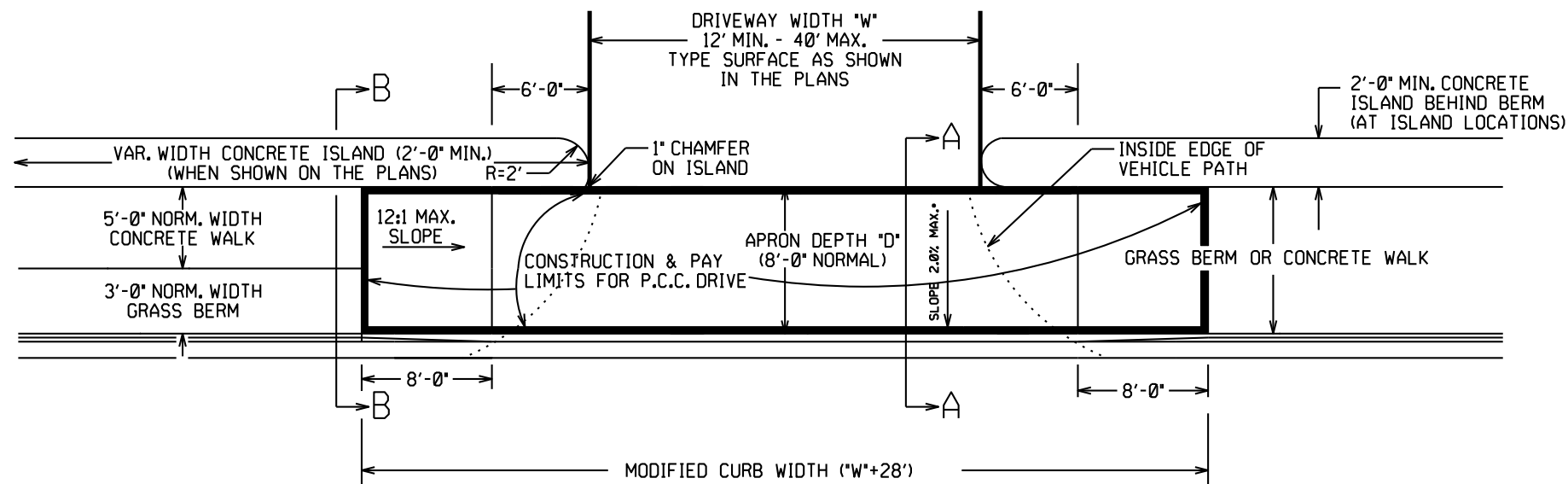
STANDARD DRAWING CPTJ - 6A



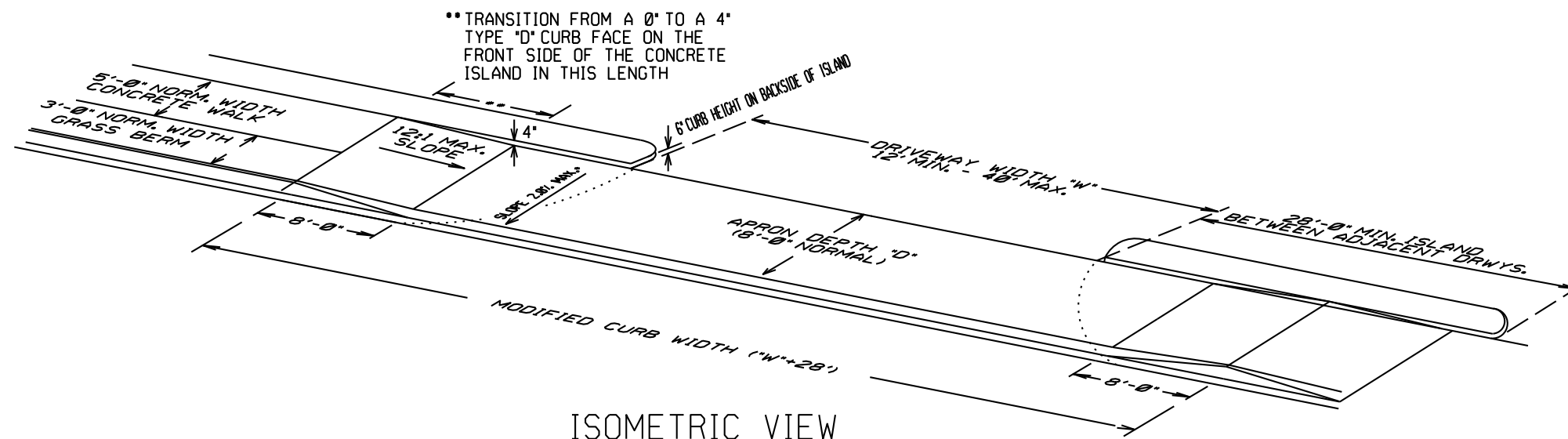
5/8" Ø X 2'-6" DEFORMED BARS @
2'-6" CTRS. FOR ENTIRE LENGTH OF SLAB
NOTE: TIE BARS SHALL BE 15" FROM TRANSVERSE JOINTS.
LONGITUDINAL CONSTRUCTION JOINT



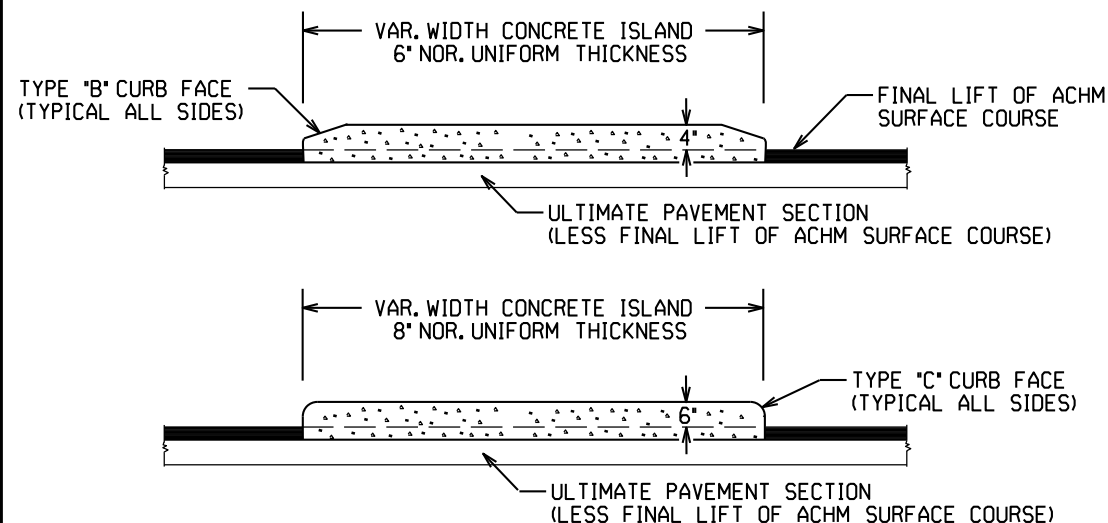
SECTION
TRANSVERSE
CONSTRUCTION JOINT



PLAN VIEW



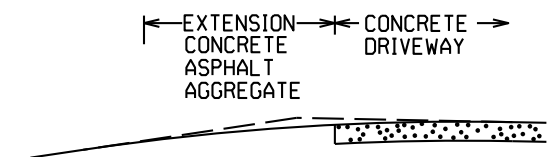
ISOMETRIC VIEW



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.

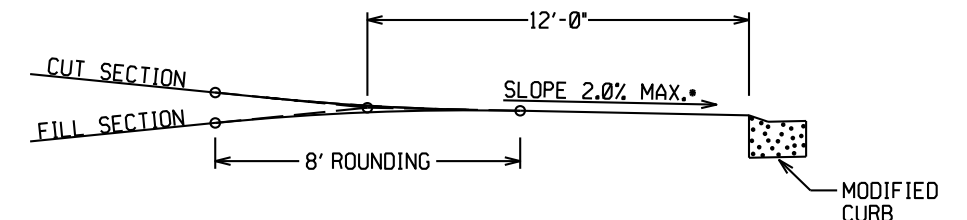


EXTENSION TYPICAL SECTIONS

- 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

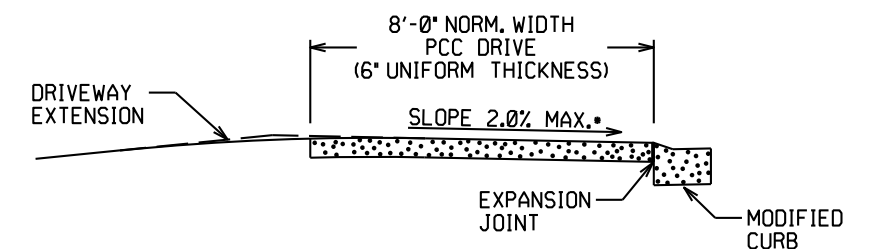
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

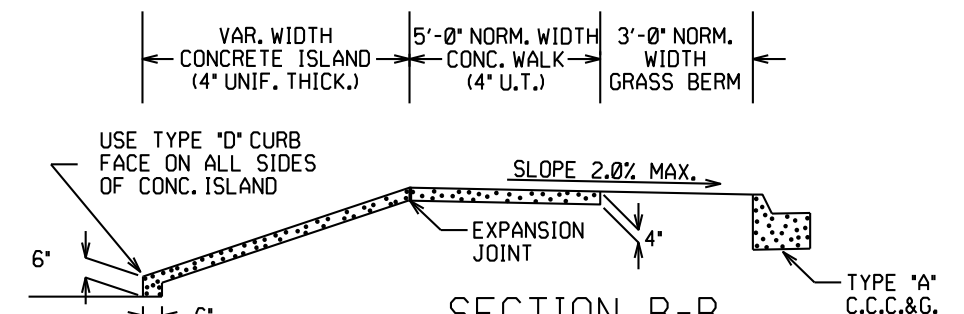


DRIVEWAY VERTICAL ALIGNMENT DETAILS

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



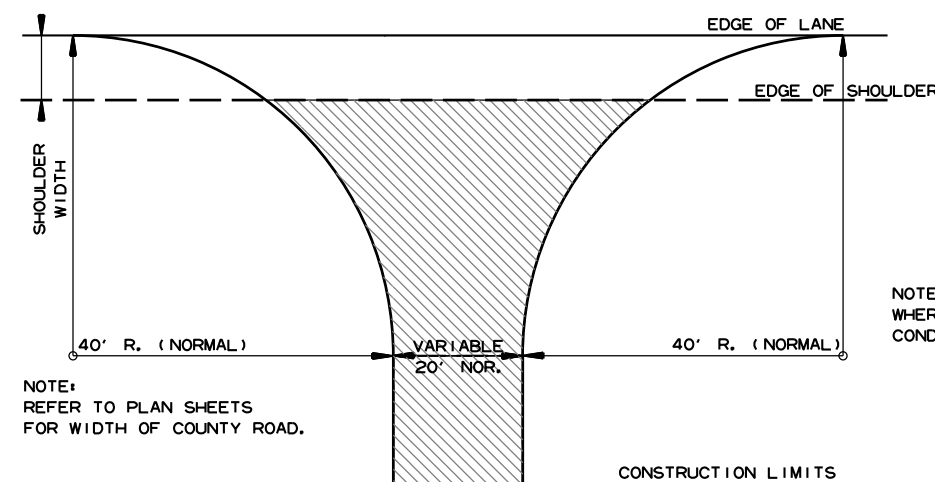
SECTION A-A



SECTION B-B
CURBED ISLAND BEHIND WALK

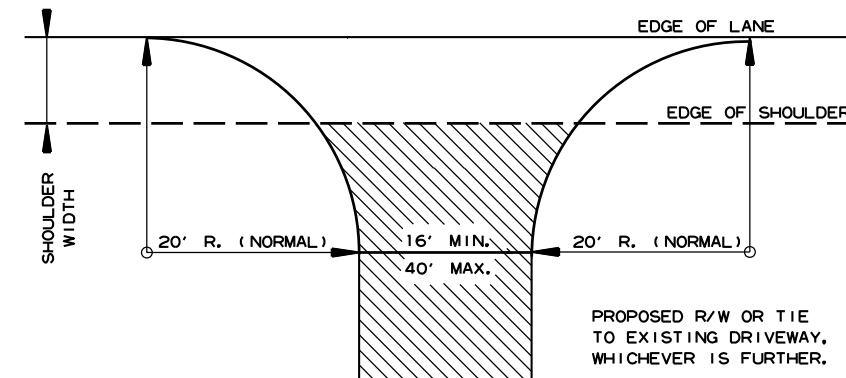
DATE	REV	DATE FILMED	DESCRIPTION
5-19-22			REVISED ISLAND NOTES
11-07-19			REVISED WALK DETAILS
2-27-14			REVISED PLAN & ISOMETRIC VIEW
11-29-07			ADDED CHANNELIZATION ISLAND WITH TYPE C CURB FACE & REVISED DRIVEWAY SLOPE NOTE & VERTICAL ALIGNMENT DETAIL
11-10-05			REV. APRON SLOPE & DEPTH OF AGG. BASE.
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

ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF DRIVEWAYS & ISLANDS
STANDARD DRAWING DR-1



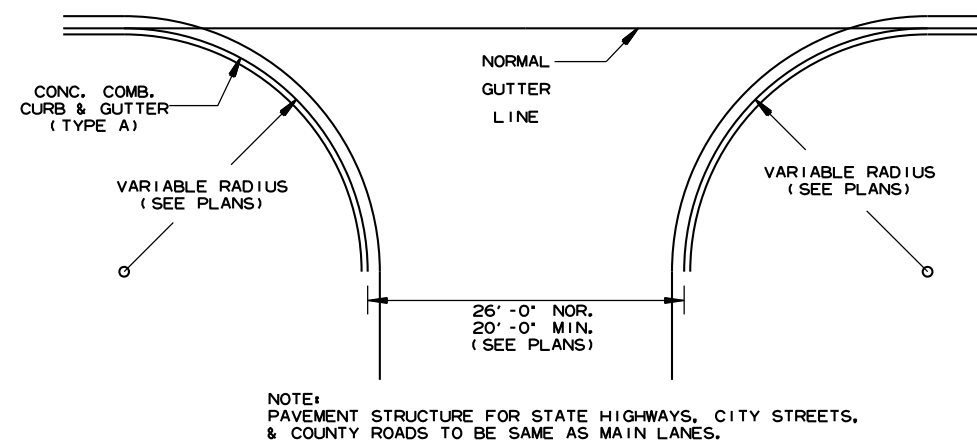
DETAIL FOR COUNTY ROAD TURNOUTS
OPEN SHOULDER SECTION

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

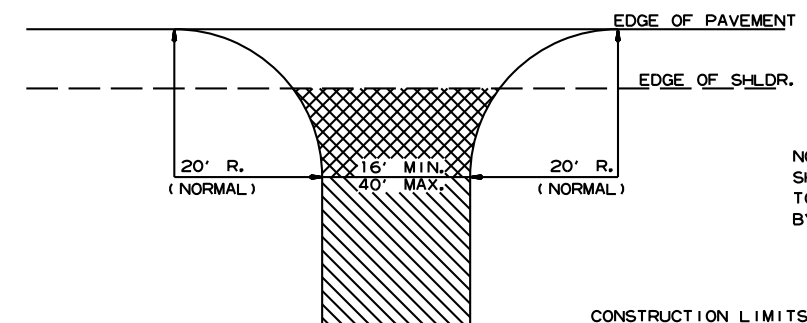


DETAIL FOR DRIVEWAY TURNOUTS
OPEN SHOULDER SECTION
(ARTERIALS)

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



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.

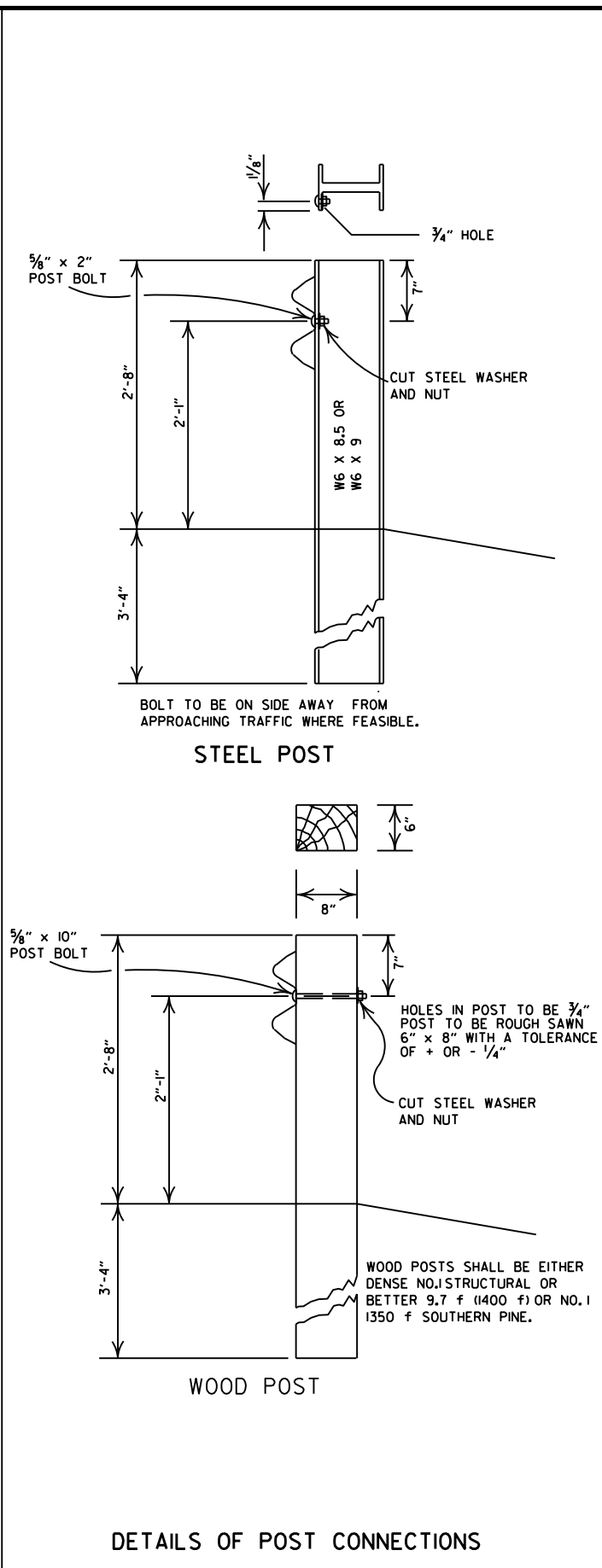
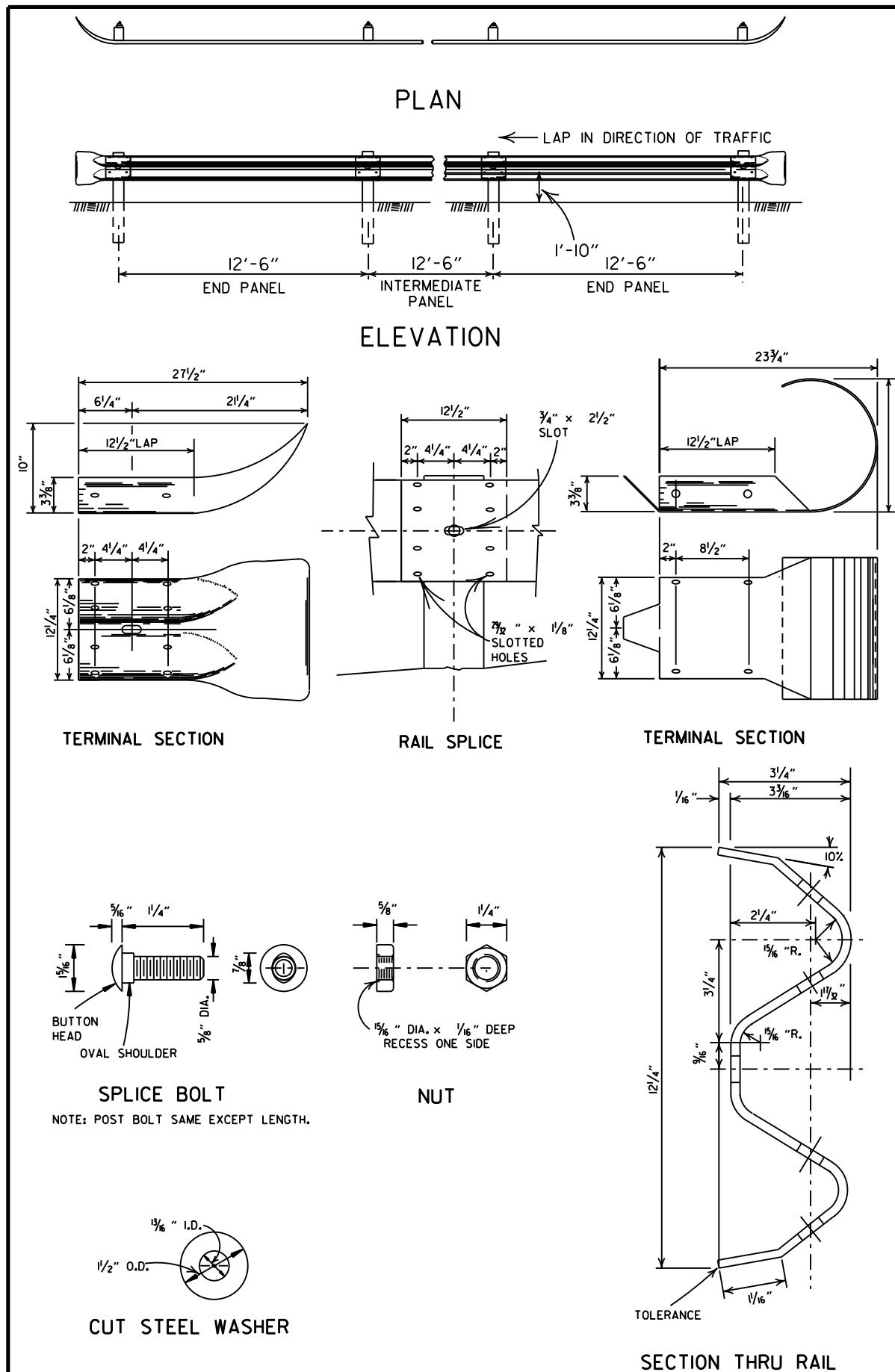
AGGREGATE BASE COURSE (CLASS 7)
9" COMP. DEPTH OR CONFORM
TO EXISTING DRIVEWAY

DETAIL FOR DRIVEWAY TURNOUTS
(COLLECTORS)

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

5-19-22		ISSUED
DATE REV	DATE FILMED	DESCRIPTION

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



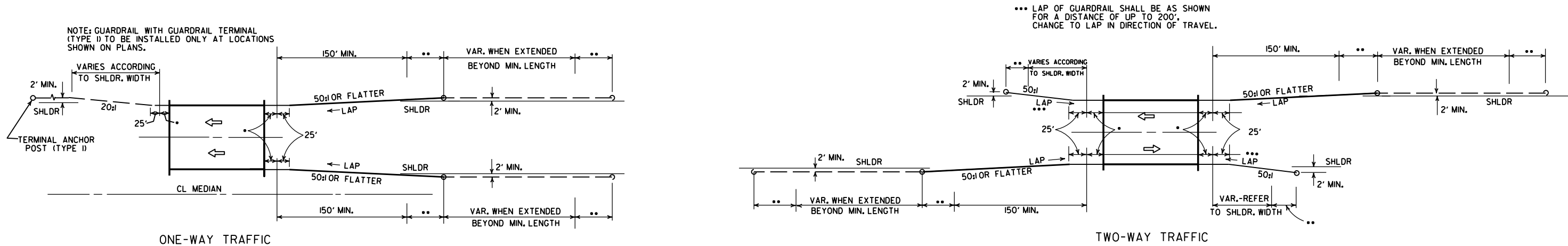
11-07-19	RENUMBERED AND RENAMED	
11-16-17	REVISED GUARDRAIL HEIGHT	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
08-22-02	REVISED DIMENSION ON STEEL POST	
11-16-01	REVISED STEEL AND WOOD POST	
08-12-98	REMOVED CONCRETE POST	
10-18-96	CHANGED WOOD POST NOTE	10-18-96
06-02-94	ADDED ALTERNATE STEEL POST SIZE	
08-05-93	REVISED STEEL POSTS SIZE	8-5-93
08-15-91	DELETE STEEL PLATE WASHER & ADDED TYPE C TO TITLE	8-15-91
10-30-87	REMOVED DET. PLCMNT. ON HWY.	555-11-20-87
01-04-83	GRADE FOR WOOD POSTS	679-1-4-83
10-01-77	HARDENED WASHER	922-10-1-72
10-02-72	REVISED & REDRAWN	521-10-2-72
DATE	REVISION	FILMED

ARKANSAS STATE HIGHWAY COMMISSION

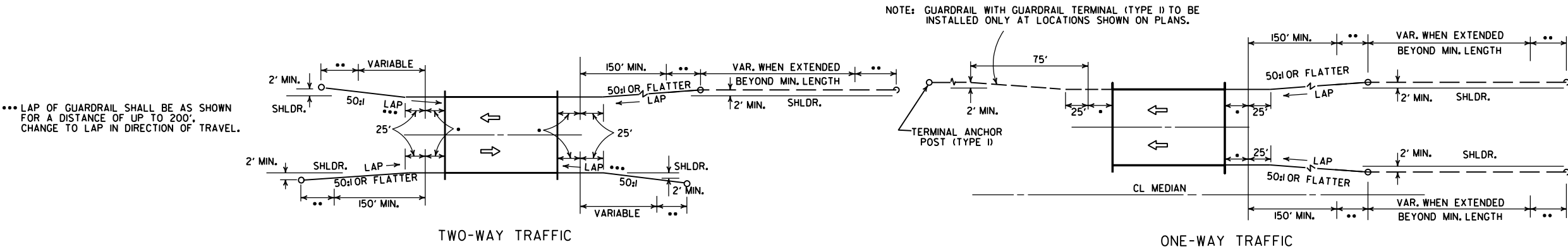
GUARDRAIL DETAILS (TYPE C)
STREET / ROAD BARRICADE OR
TEMPORARY INSTALLATION

STANDARD DRAWING GR-5

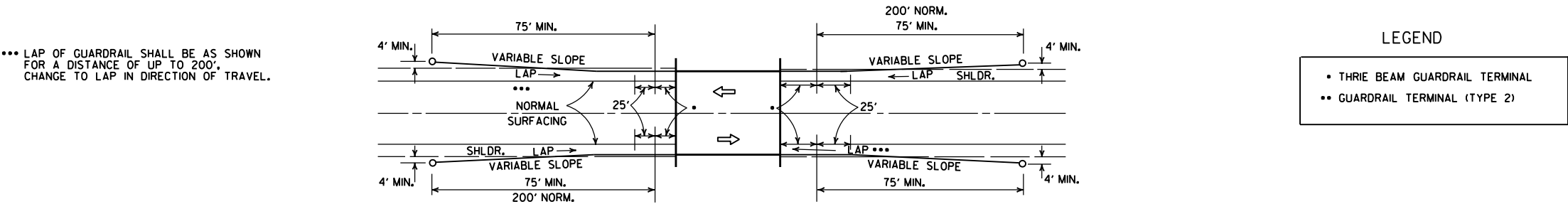
STANDARD DRAWING GR-6



METHODS OF INSTALLATION OF GUARDRAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

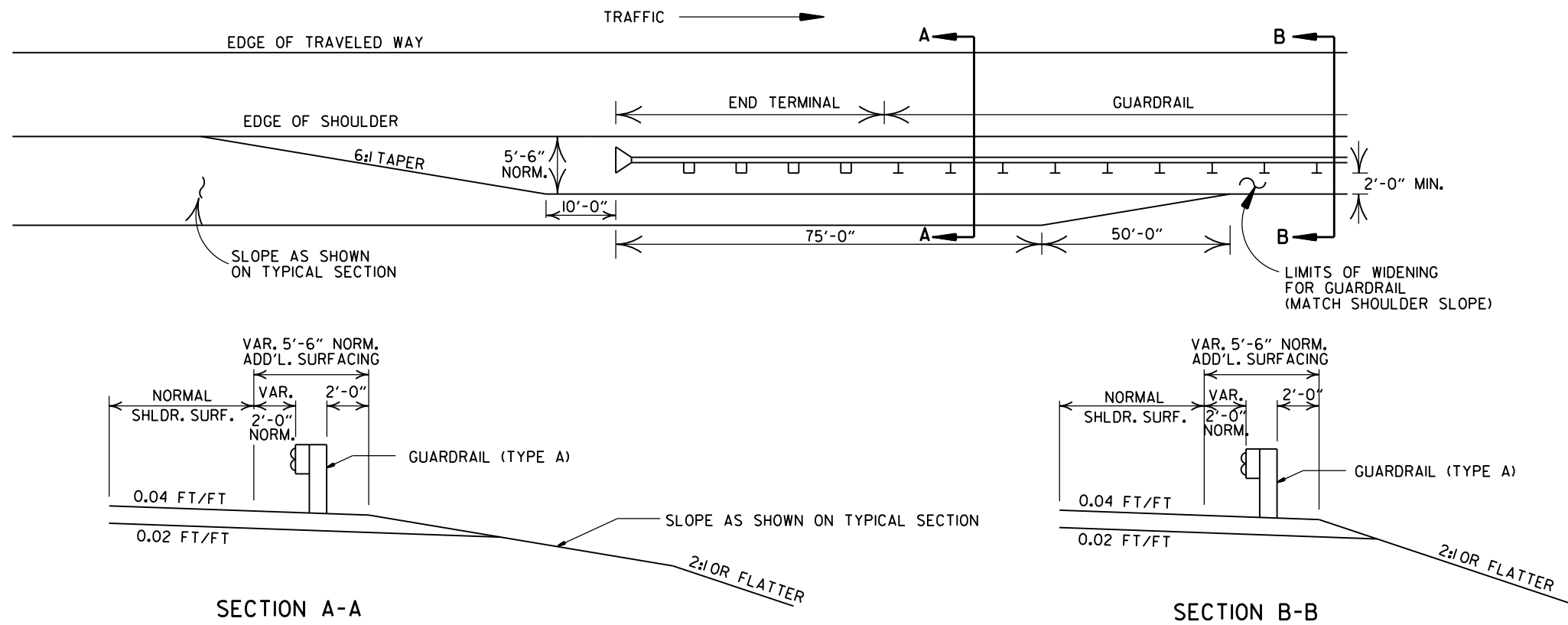


METHOD OF INSTALLATION OF GUARDRAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

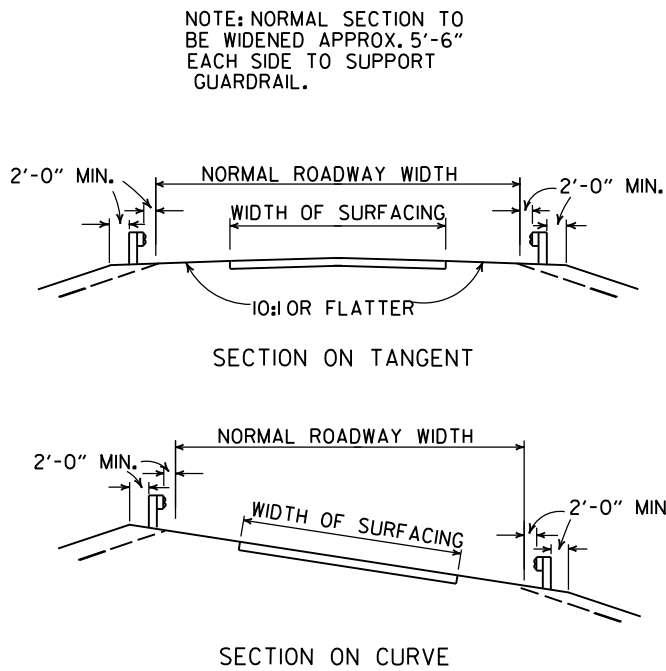


METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERMINAL (TYPE 1) (FULL SHOULDER WIDTH OR LESS BRIDGES)

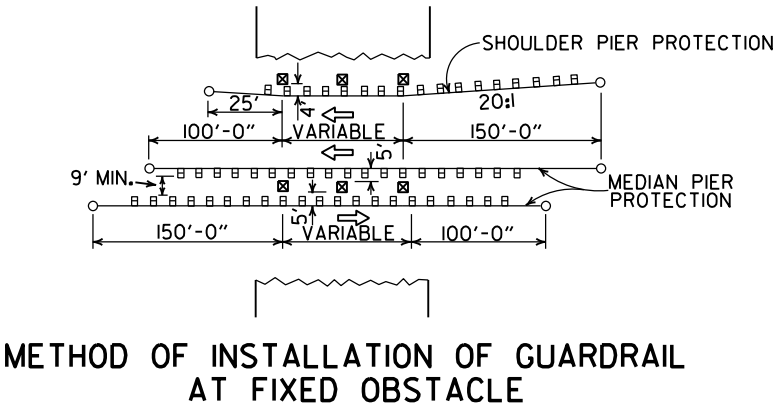
			ARKANSAS STATE HIGHWAY COMMISSION
11-07-19	RENUMBERED AND RENAMED		GUARDRAIL DETAILS
4-17-08	REVISED LAYOUTS		
11-10-05	REMOVED GUARDRAIL NOTES AND DETAILS		
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERM. (TY. 1)		
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00	STANDARD DRAWING GR-8
6-26-97	REVISED LAYOUT		
10-1-92	REDRAWN & REVISED	10-1-92	
10-9-87	ADDED NOTE		
DATE	REVISION	DATE FILM	



DETAILS OF WIDENING FOR GUARDRAIL



DETAILS SHOWING POSITION OF GUARDRAIL ON HIGHWAY



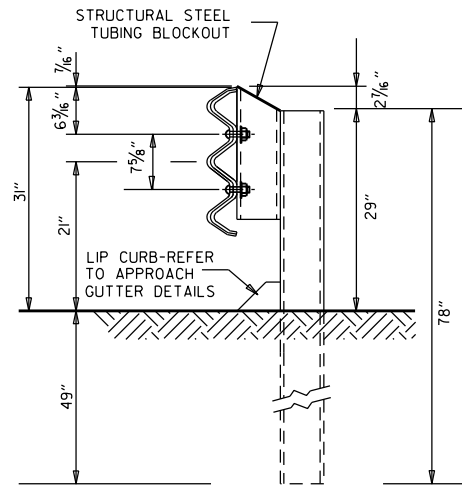
			ARKANSAS STATE HIGHWAY COMMISSION
			GUARDRAIL DETAILS
			STANDARD DRAWING GR-9
11-07-19	RENUMBERED AND RENAMED		
4-17-08	MINOR REVISION		
11-10-05	DRAWN		
DATE	REVISION	DATE FILED	



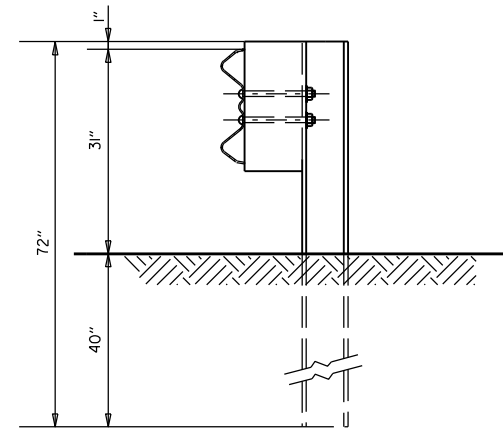
CONNECTOR PLATE

THRIE BEAM RAIL SPLICE AT POST

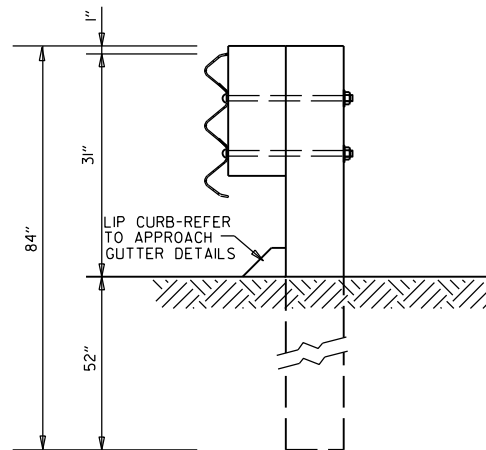
II-07-19	RENAMED AND REVISED REFERENCES		
II-16-17	REVISED TRANSITION SECTION, GUARD RAIL HEIGHT, AND GENERAL NOTES; MOVED THREE BEAM GUARD RAIL CONNECTIONS AT BRIDGES ENDS TO STD. DRWG. GR-12		
07-14-10	RAISED HEIGHT OF W-BEAM 1"		
II-29-07	ADDED PLASTIC BLOCKOUTS		ARKANSAS STATE HIGHWAY COMMISSION
II-10-05	ADDED NOTE FOR ATTACHING STEEL BLOCKOUT		
II-18-04	REVISED GENERAL NOTES		
10-9-03	REVISED GENERAL NOTES		
04-10-03	REVISED GENERAL NOTES		GUARDRAIL DETAILS
08-22-02	REVISED NOTE (2)		
06-29-00	MOVED DIMENSION LINES		
05-18-00	ADDED NOTE		
03-30-00	DRAWN & ISSUED		STANDARD DRAWING GR-10
DATE	REVISION	FILMED	



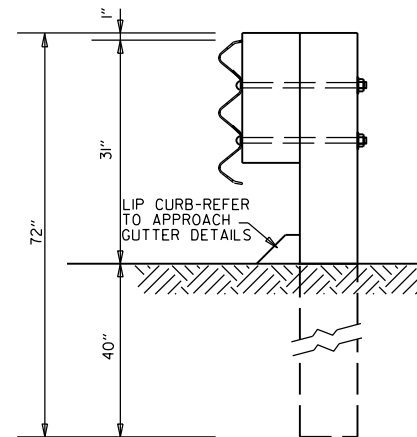
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT
AND STEEL POST
POSTS 1-7



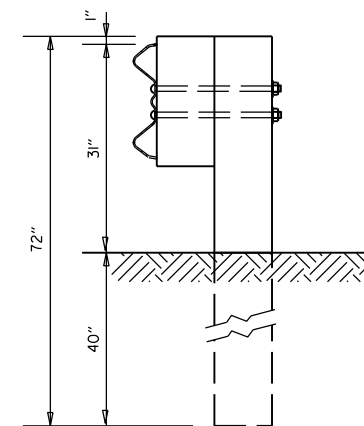
W-BEAM TO THRIE BEAM TRANSITION RAIL
WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUTS & WOOD POSTS
POSTS 1-6



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUT & WOOD POST
POST 7



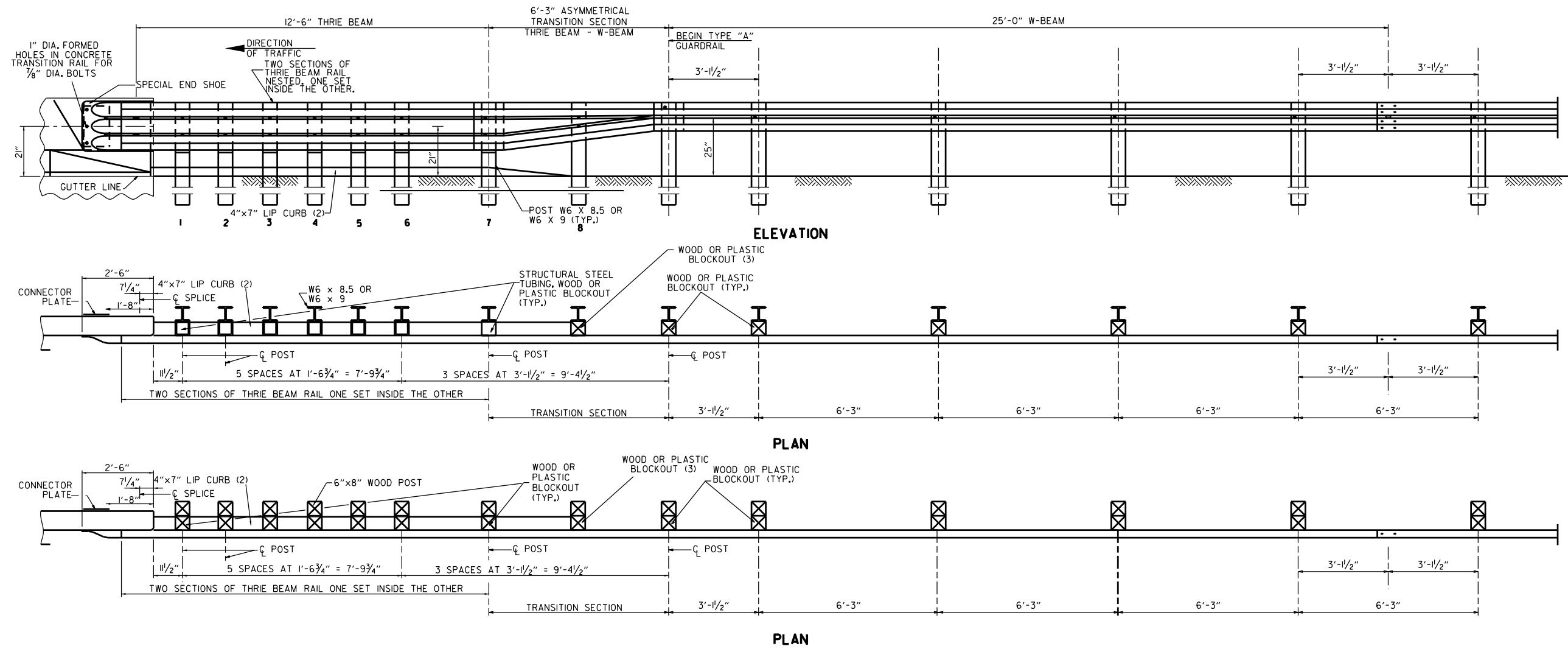
W-BEAM TO THRIE BEAM
TRANSITION RAIL WITH WOOD OR
PLASTIC BLOCKOUT & WOOD POST
POST 8

GENERAL NOTES:

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 350 f SOUTHERN PINE.

			ARKANSAS STATE HIGHWAY COMMISSION
			GUARDRAIL DETAILS
11-07-19	RENAMED		
11-16-17	REVISED GUARDRAIL HEIGHT, CHANGED STD. DWG. NUMBER FROM GR-10A TO GR-II		
07-14-10	REVISED POST 8 DIMENSIONS		
11-29-07	ADDED PLASTIC BLOCKOUTS		
08-22-02	REVISED LIP CURB NOTE		STANDARD DRAWING GR-II
03-30-00	DRAWN & ISSUED		
DATE	REVISION	FILMED	



- (1) VERIFY BOLT SPACING FROM RAIL TRANSITION PRODUCER.
(2) REFER TO APPROACH GUTTER DETAILS.
(3) LENGTH OF BLOCKOUT ON POST 8 TO BE MODIFIED TO FIT RAIL WIDTH.

THRIE BEAM GUARDRAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-8 & GR-13.

REFER TO STD. DRWG. GR-II FOR POST DETAILS.

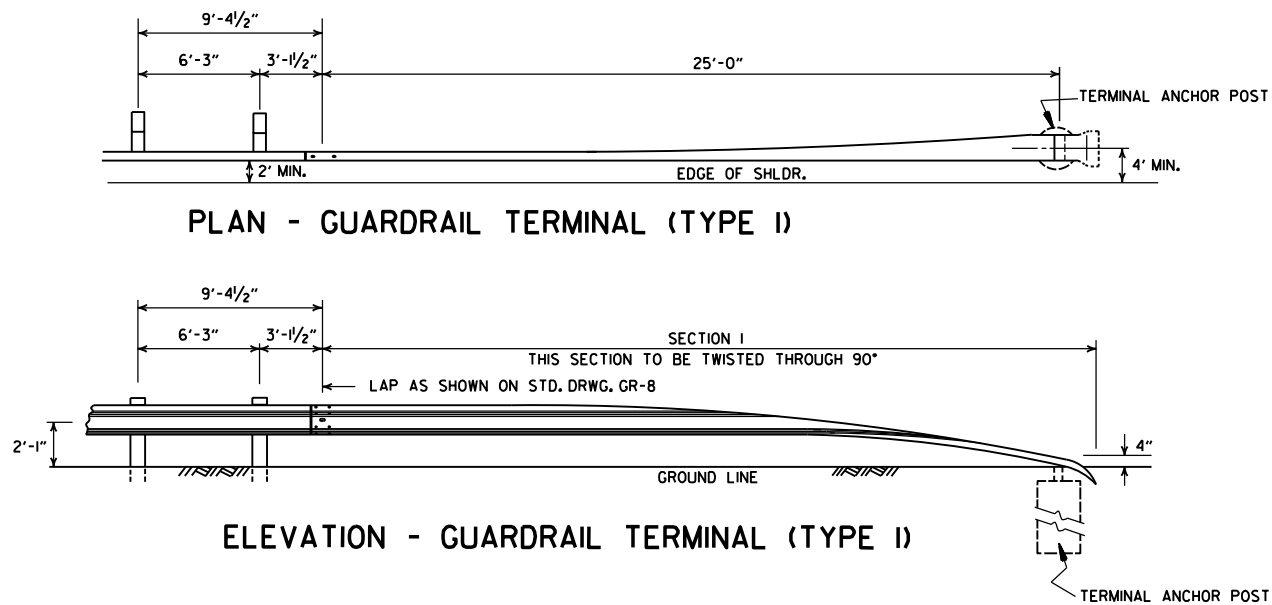
USE THRIE BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

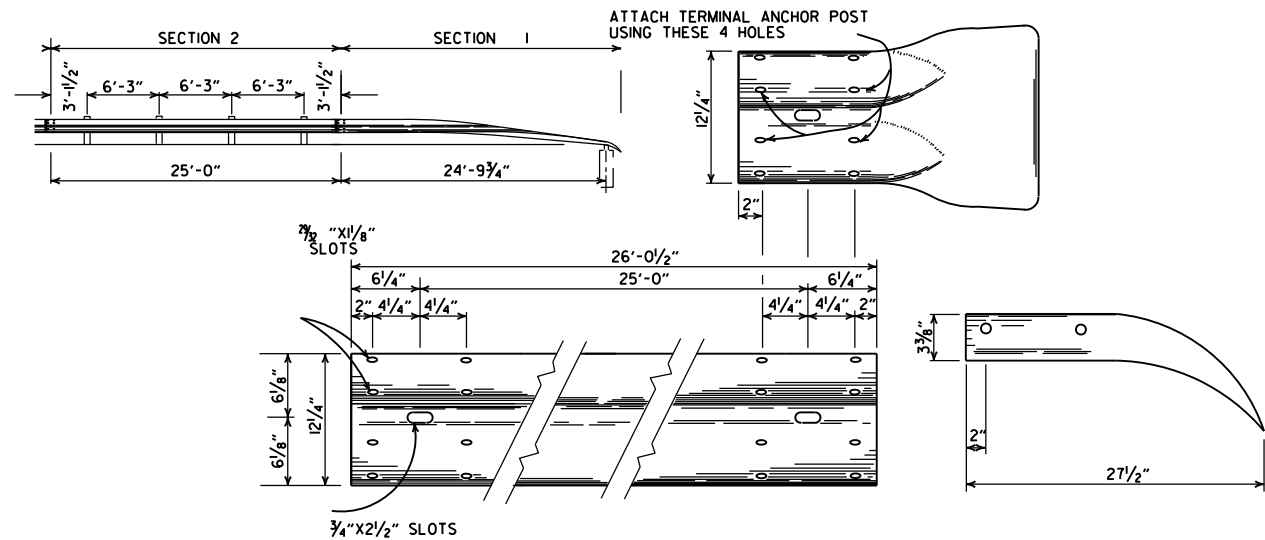
POSTS SHALL NOT BE PLACED AT SPLICE LOCATIONS ALONG W-BEAM RAILS.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

ARKANSAS STATE HIGHWAY COMMISSION		
GUARDRAIL DETAILS		
STANDARD DRAWING GR-12		
05-14-20	REVISED NOTES	
11-07-19	RENAMED & REVISED REFERENCES	
11-16-17	RE-DRAWN FROM STD. DWG. GR-10 & ISSUED	
DATE	REVISION	FILMED

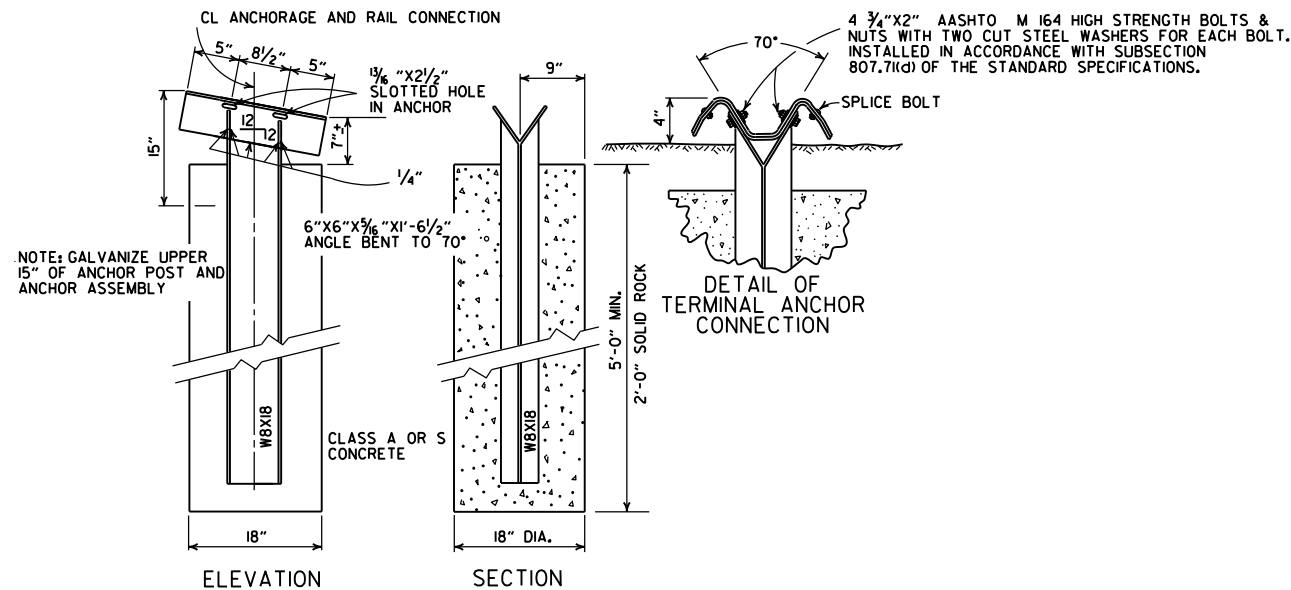


NOTE: SECTIONS 1 AND 2 OF GUARDRAIL TERMINAL SHALL BE PAID FOR AT THE PRICE BID PER LINEAR FOOT OF THE TYPE OF GUARDRAIL SPECIFIED.



SECTION 1

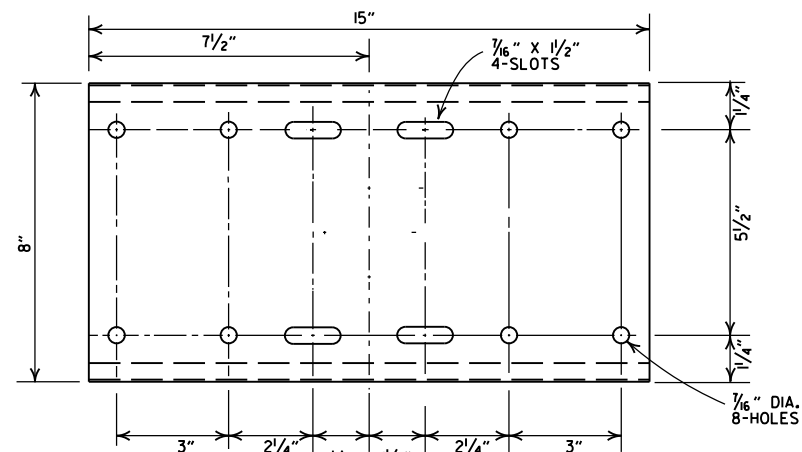
TERMINAL SECTION



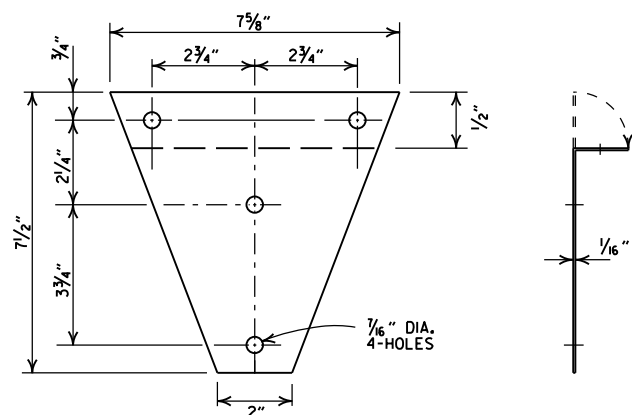
NOTE: GALVANIZE UPPER 15" OF ANCHOR POST AND ANCHOR ASSEMBLY.

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

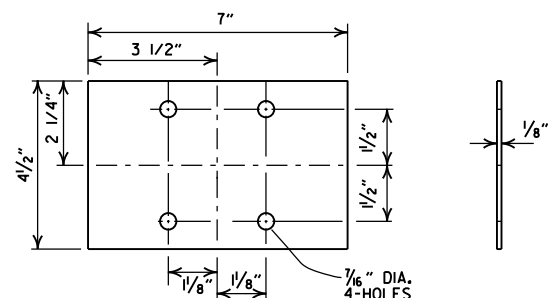
11-07-19	RENAMED & REVISED REFERENCE.		ARKANSAS STATE HIGHWAY COMMISSION
11-16-17	REVISED GUARDRAIL HEIGHT AND LOCATION OF POSTS		GUARDRAIL DETAILS
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"		
06-26-97	REVISED LAP NOTE		
10-18-96	REVISED ASTM REF. TO AASHTO		
11-03-94	DIMENSION TERMINAL DETAIL		
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92	STANDARD DRAWING GRT-1
10-01-92	DRAWN & ISSUED	10-1-92	
DATE	REVISION	FILMED	



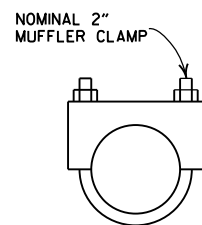
SHELF



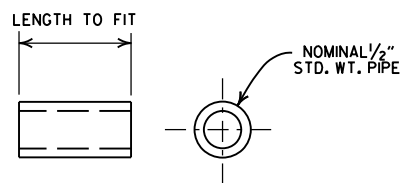
BRACKET



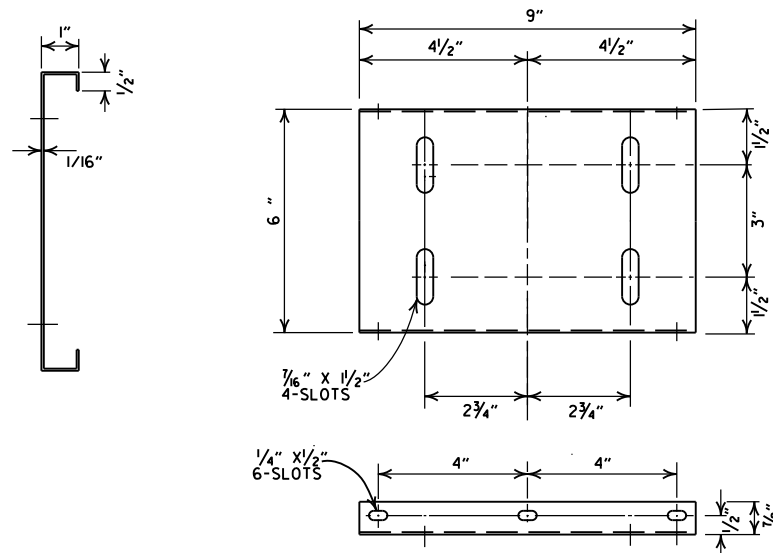
ANTI-TWIST PLATE



CLAMP



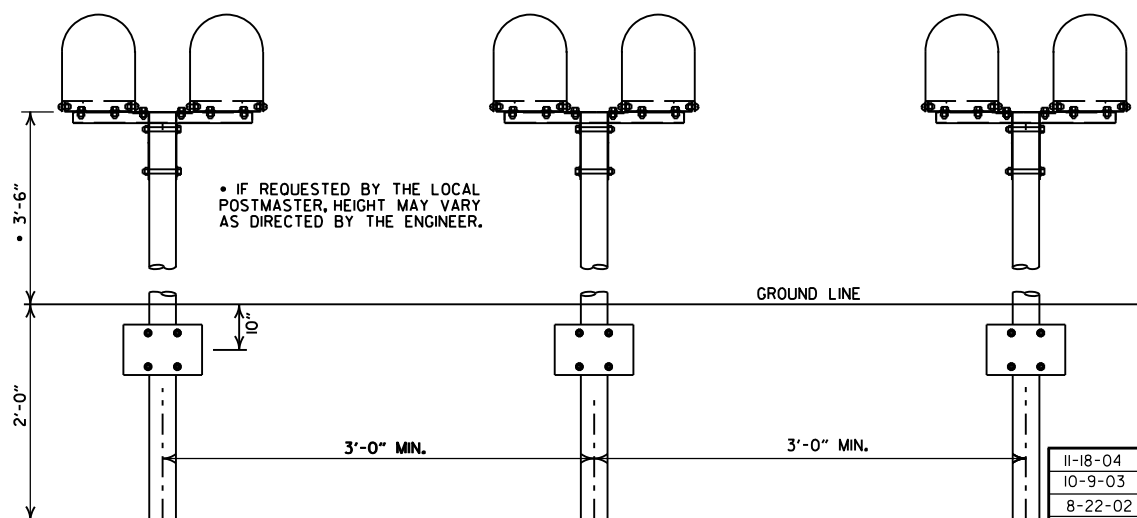
SPACER



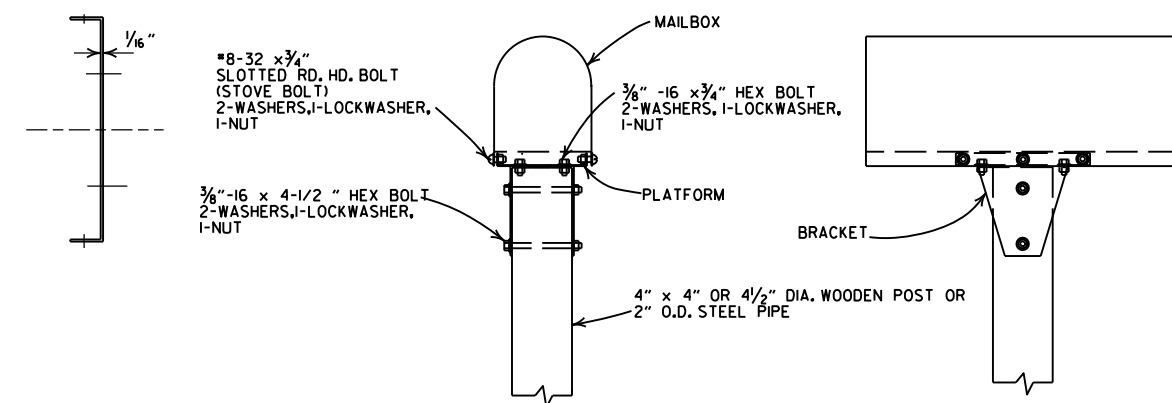
PLATFORM

GENERAL NOTES

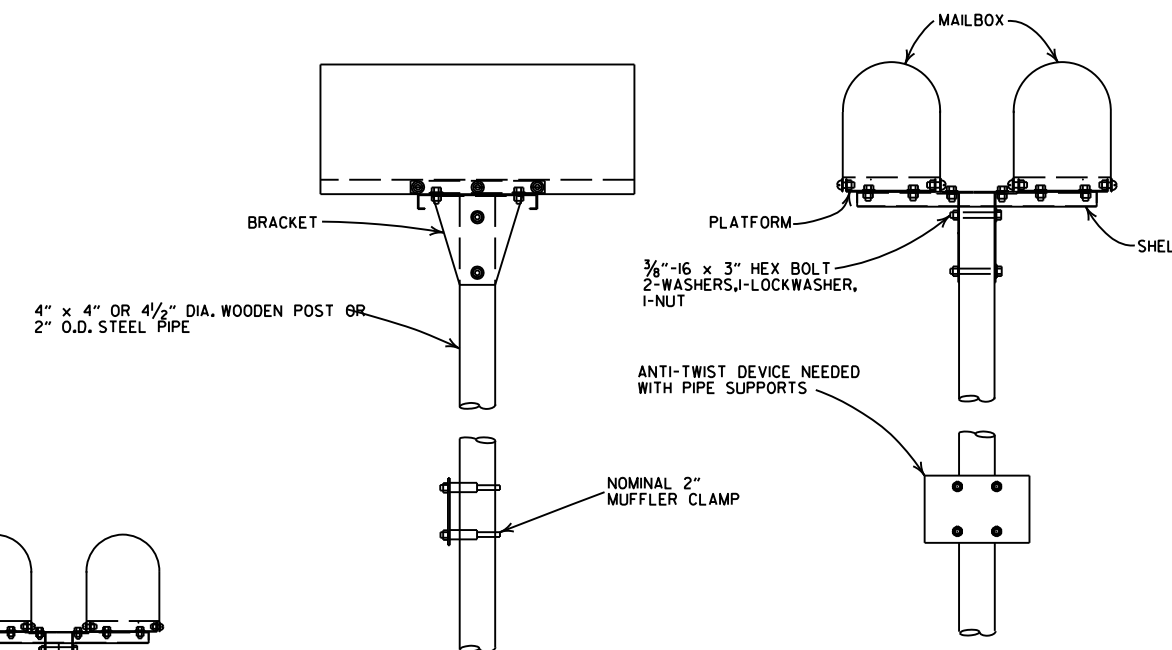
1. MAILBOX POSTS MAY BE WOOD OR METAL. WOOD POSTS SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH SECTION 637.02 OF THE STANDARD SPECIFICATIONS.
2. ANTI-TWIST PLATES SHALL BE USED ONLY ON METAL POSTS.
3. MAILBOX SHELF, BRACKET & PLATFORM SHALL BE GALVANIZED OR PAINTED STEEL, HOWEVER TREATED 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.



SPACING FOR MULTIPLE POST INSTALLATION



SINGLE INSTALLATION



DOUBLE INSTALLATION

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	ARDOT NOMINAL	AASHTO M 206	ARDOT 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.

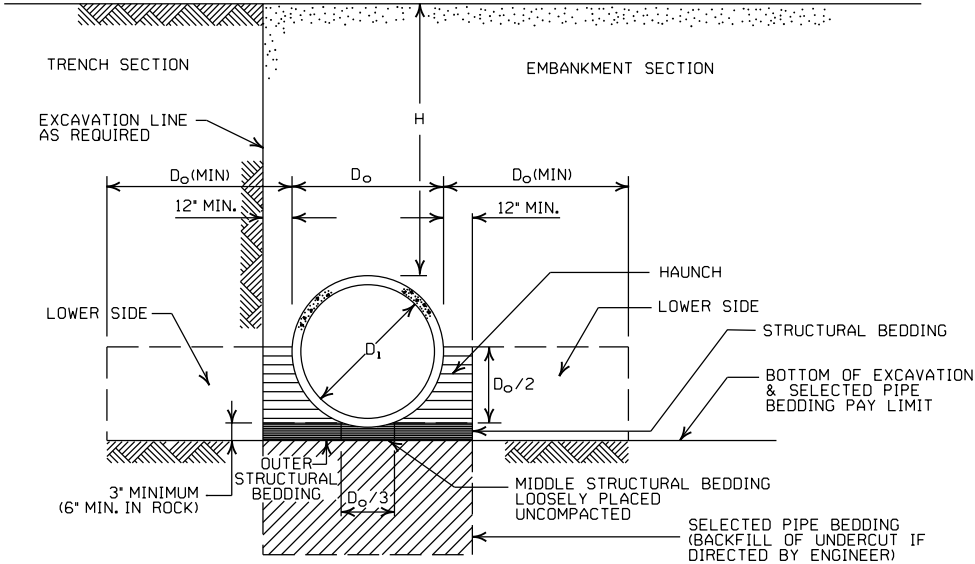
- LEGEND -

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

	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL
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.

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

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2 OR TYPE 3	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 CIRCULAR
R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
	FEET		
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.

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

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

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

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	
DATE	REVISION	DATE FILMED

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT
FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1



CORRUGATED STEEL PIPE (ROUND)

PIPE DIAMETER (INCHES)	① 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 3/4 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
② 3 INCH BY 1 INCH OR 5 INCH BY 1 INCH CORRUGATION RIVETED, WELDED, BOLTED, OR HELICAL LOCK-SEAM						
36	1	48	60	88	111	118
42	1	41	51	72	90	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)	① 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 3/4 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	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)	MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)		
				INSTALLATION	INSTALLATION		INSTALLATION	INSTALLATION		
				TYPE 1	TYPE 1		TYPE 1	TYPE 1		
				2 3/4 INCH BY 1/2 INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM				2 3/4 INCH BY 1/2 INCH CORRUGATION RIVETED 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	15		
66	77x52	8	0.168	3	15	① FOR MINIMUM COVER VALUES, "H" SHALL ② WHERE THE STANDARD 2 2/3" x 1/2" COR WITH A 3' x 1' OR 5' x 1' CORRUGATION OR GREATER THAN THE MAXIMUM FILL				
72	83x57	9	0.168	3	15					
			② 3 INCH BY 1 INCH OR 5 INCH BY 1 INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM							
			INSTALLATION		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.

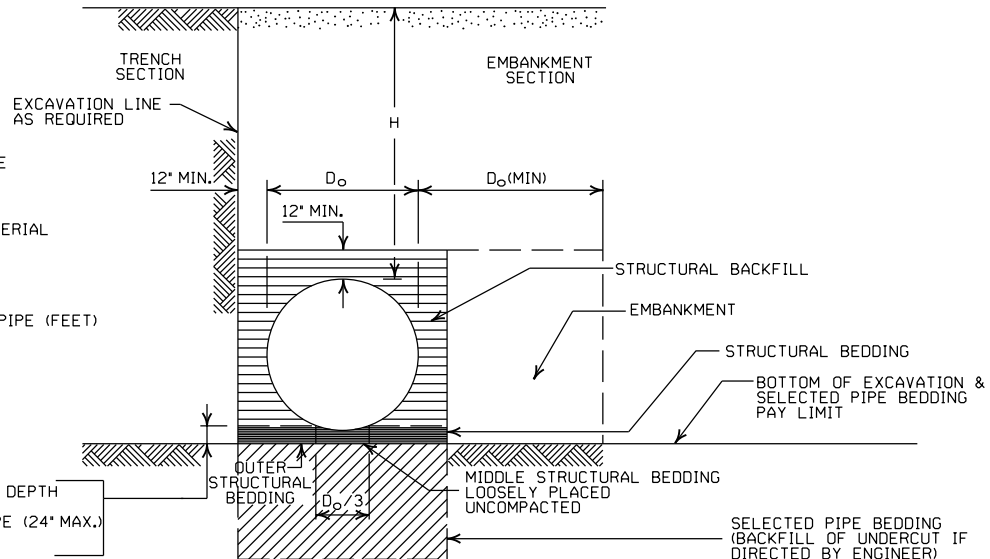
EQUIVALENT METAL THICKNESSES AND GAUGES

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

- LEGEND -

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

IN SOIL-MIN. EQUALS TWICE CORRUGATION DEPTH
IN ROCK-MIN. EQUALS GREATER OF:
1/2" PER FOOT OF FILL OVER PIPE (24" MAX.)
TWICE CORRUGATION DEPTH



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 3/4" 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."

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.

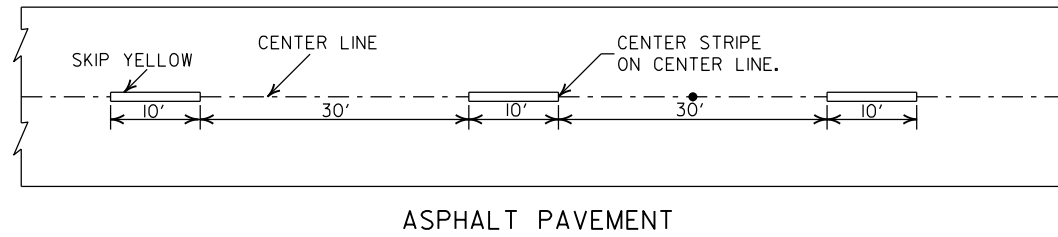
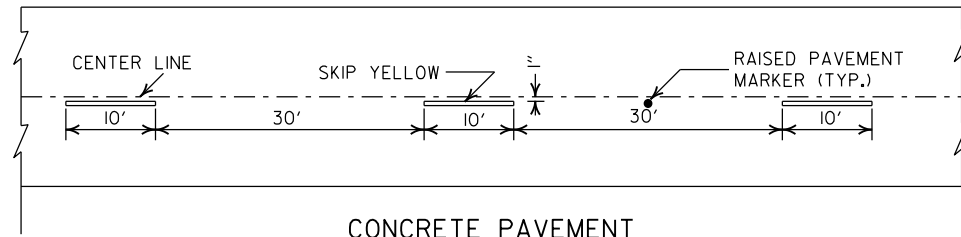
2-27-14	REVISED GENERAL NOTE 1	
12-15-11	REVISED FOR LRFD DESIGN SPECS	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	
DATE	REVISION	DATE FILMED

ARKANSAS STATE HIGHWAY COMMISSION

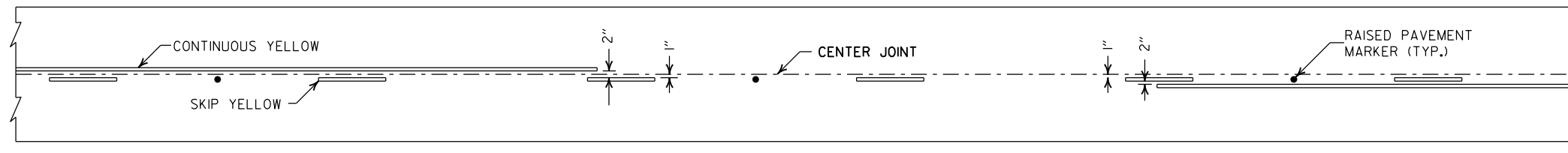
METAL PIPE CULVERT
FILL HEIGHTS & BEDDING

STANDARD DRAWING PCM-1

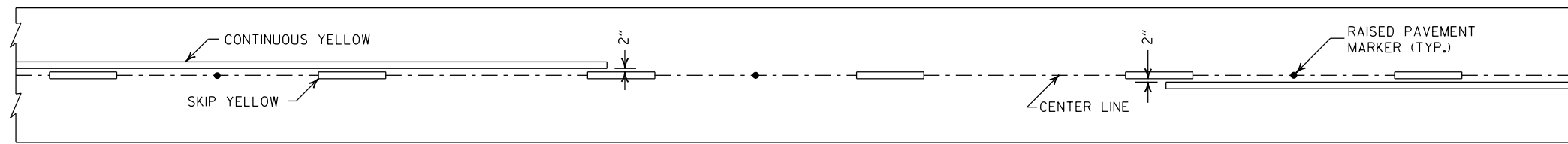




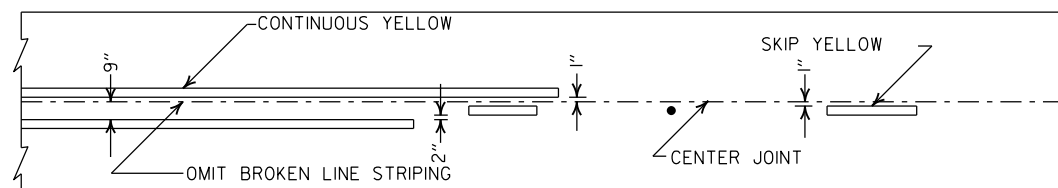
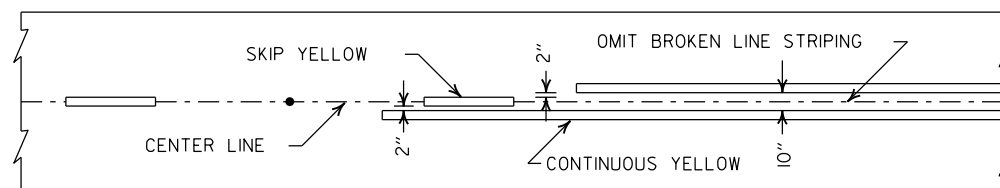
BROKEN LINE STRIPING



SOLID LINE STRIPING ON CONCRETE PAVEMENT



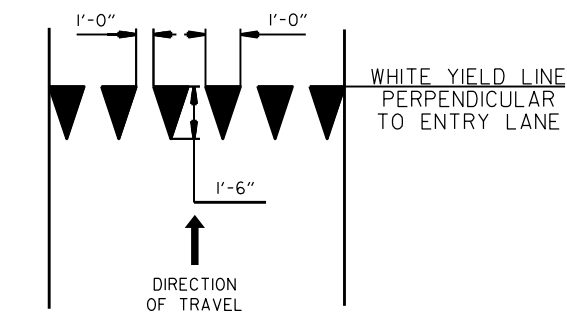
SOLID LINE STRIPING ON ASPHALT PAVEMENT



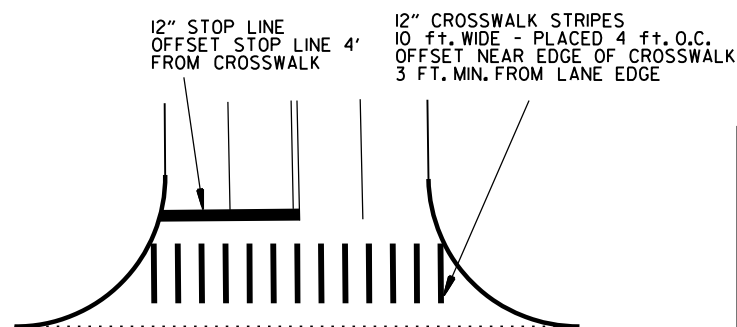
ASPHALT PAVEMENT

CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES



YIELD LINE DETAIL

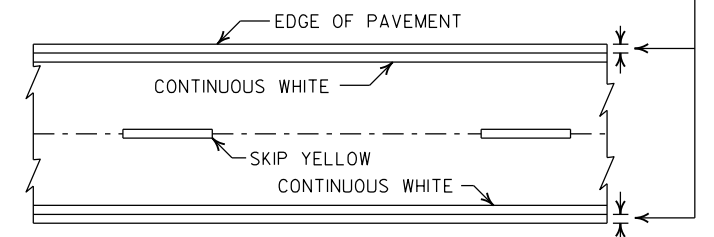


CROSSWALK AND STOP LINE DETAILS

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.

2" FOR ASPHALT OR CONCRETE PAVEMENT
6" FOR BITUMINOUS SURFACE TREATMENT

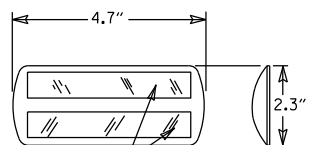


PAVEMENT EDGE LINE MARKING

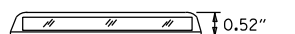
NOTE:
THE RED LENS OF THE
TYPE II R.P.M. SHALL
FACE THE INCORRECT
TRAFFIC MOVEMENT.

TYPE II
RED/CLEAR OR
YELLOW/YELLOW

PRISMATIC REFLECTOR



NOTE:
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.



DETAIL OF STANDARD RAISED PAVEMENT MARKERS

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 DTLS.	
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
DATE	REVISION	FILMED

ARKANSAS STATE HIGHWAY COMMISSION

PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

SUPERELEVATION TABLE FOR TWO - WAY TRAFFIC

DEGREE OF CURVE	30 MPH			35 MPH			40 MPH			45 MPH			50 MPH			55 MPH			60 MPH			65 MPH			70 MPH			75 MPH		
	e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)	
		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE
0° 15'	NC			NC			NC			NC			NC			NC			NC			NC			NC			NC		
0° 30'	NC			NC			NC			NC			NC			NC			RC	96		RC	96		RC	96		RC	96	
0° 45'	NC			NC			NC			NC			RC	96		RC	96		0.024	106		0.026	110		0.030	120		0.030	120	
1° 00'	NC			NC			NC			RC	90		0.022	101		0.026	110		0.030	120		0.034	130		0.038	139		0.038	139	
1° 15'	NC			NC			RC	84		0.022	95		0.028	115		0.032	125		0.038	139		0.042	149		0.046	158		0.046	158	
1° 30'	NC			RC	78		0.022	88		0.028	108		0.032	125		0.038	139		0.044	154		0.050	168		0.056	182		0.056	182	
1° 45'	RC	72		RC	78		0.026	97		0.030	113		0.036	134		0.044	154		0.050	168		0.056	182		0.064	202		0.064	202	
2° 00'	RC	72		0.024	86		0.028	101		0.034	122		0.042	149		0.048	163		0.056	182		0.064	202		0.070	216		0.070	216	
2° 15'	RC	72		0.026	90		0.032	109		0.038	131		0.046	158		0.054	178		0.062	197		0.070	216		0.078	235		0.078	235	
2° 30'	0.022	75		0.028	94		0.034	113		0.042	140		0.050	168		0.058	187		0.068	211		0.076	230		0.086	254		0.086	254	
2° 45'	0.024	79		0.030	98		0.038	122		0.046	149		0.054	178		0.064	202		0.072	221		0.082	245		0.092	269		0.092	269	
3° 00'	0.026	83		0.034	105		0.040	126		0.050	158		0.058	187		0.068	211		0.078	235		0.088	259		0.098	283		0.098	283	
3° 15'	0.028	86		0.036	109		0.044	134		0.052	162		0.062	197		0.072	221		0.082	245		0.092	269		0.100	288		0.100	288	
3° 30'	0.030	90		0.038	113		0.046	139		0.056	171		0.066	206		0.076	230		0.086	254		0.096	278		0.100	288		0.100	288	
3° 45'	0.032	93		0.040	117		0.050	147		0.058	176		0.070	216		0.080	240		0.090	264		0.098	283		0.100	288		0.100	288	
4° 00'	0.034	97		0.042	121		0.052	151		0.062	185		0.072	221		0.084	250		0.094	274		0.100	288		0.100	288		0.100	288	
4° 15'	0.036	100		0.044	125		0.054	155		0.064	189		0.076	230		0.086	254		0.096	278		0.100	288		0.100	288		0.100	288	
4° 30'	0.036	100		0.046	129		0.056	160		0.068	198		0.078	235		0.090	264		0.098	283		0.100	288		0.100	288		0.100	288	
4° 45'	0.038	104		0.048	133		0.060	168		0.070	203		0.082	245		0.092	269		0.098	283		0.100	288		0.100	288		0.100	288	
5° 00'	0.040	108		0.050	137		0.062	172		0.072	207		0.084	250		0.094	274		0.098	283		0.100	288		0.100	288		0.100	288	
5° 30'	0.044	115		0.054	144		0.066	181		0.078	221		0.088	259		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
6° 00'	0.046	119		0.058	152		0.070	189		0.082	230		0.092	269		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
6° 30'	0.050	126		0.062	160		0.074	198		0.086	239		0.096	278		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
7° 00'	0.052	130		0.064	164		0.078	206		0.090	248		0.098	283		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
7° 30'	0.054	133		0.068	172		0.080	210		0.092	252		0.100	288		0.100	288		0.100	288		0.100	288		0.100	288		0.100	288	
8° 00'	0.058	140		0.070	176		0.084	219		0.094	257		0.098	283		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
8° 30'	0.060	144		0.072	179		0.086	223		0.096	261		0.098	283		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
9° 00'	0.062	148		0.076	187		0.088	227		0.098	266		0.098	283		0.098	283		0.098	283		0.100	288		0.100	288		0.100	288	
9° 30'	0.064	151		0.078	191		0.092	235		0.100	270		0.100	288		0.100	288		0.100	288		0.100	288		0.100	288		0.100	288	
10° 00'	0.066	155		0.080	195		0.094	240		0.094	240		0.094	240		0.094	240		0.094	240		0.094	240		0.094	240		0.094	240	
11° 00'	0.070	162		0.084	203		0.096	244		0.096	244		0.096	244		0.096	244		0.096	244		0.096	244		0.096	244		0.096	244	
12° 00'	0.074	169		0.088	211		0.098	248		0.098	248		0.098	248		0.098	248		0.098	248		0.098	248		0.098	248		0.098	248	
13° 00'	0.076	173		0.090	215		0.090	215		0.090	215		0.090	215		0.090	215		0.090	215		0.090	215		0.090	215		0.090	215	
14° 00'	0.080	180		0.094	222		0.094	222		0.094	222		0.094	222		0.094	222		0.094	222		0.094	222		0.094	222		0.094	222	
15° 00'	0.082	184		0.096	226		0.096	226		0.096	226		0.096	226		0.096	226		0.096	226		0.096	226		0.096	226		0.096	226	
16° 00'	0.086	191		0.098	230		0.098	230		0.098	230		0.098	230		0.098	230		0.098	230		0.098	230		0.098	230		0.098	230	
17° 00'	0.088	194		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
18° 00'	0.090	198		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
19° 00'	0.092	202		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
20° 00'	0.094	205		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
21° 00'	0.096	209		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
22° 00'	0.096	209		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
23° 00'	0.098	212		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
24° 00'	0.098	212		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	
25° 00'	0.100	216		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234		0.100	234	

ABBREVIATIONS

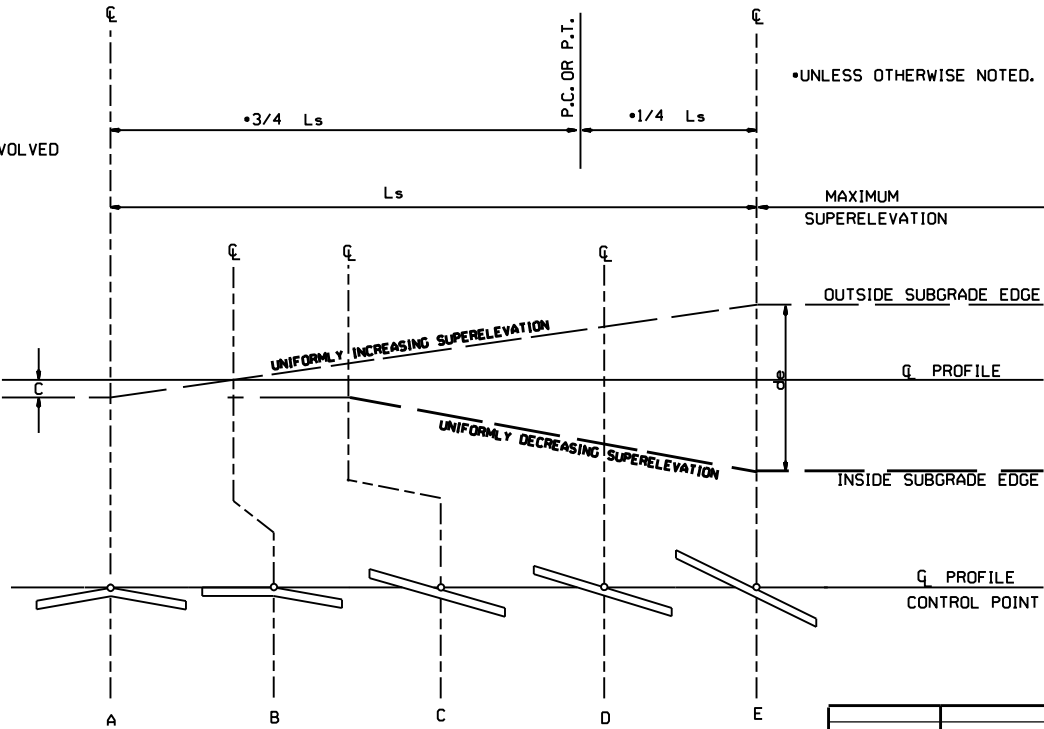
NC - NORMAL CROWN
RC - REVERSE CROWN, SUPERELEVATION AT NORMAL CROWN SLOPE
e - RATE OF SUPERELEVATION (FT. PER FT.)
Ls - LENGTH OF SUPERELEVATION TRANSITION (FT.)
L - DISTANCE FROM BEGINNING OF SUPERELEVATION TRANSITION TO ANY POINT (FT.)
d - WIDTH OF PAVEMENT (FT.) OR WIDTH OF SUBGRADE (FT.)
C - NORMAL CROWN (FT.)

- GENERAL NOTES
- ON PAVEMENT WITH TWO-WAY TRAFFIC, THE SUPERELEVATION SHALL BE REVOLVED ON THE INSIDE PAVEMENT EDGE UNLESS OTHERWISE NOTED ON THE PLANS
 - SUPERELEVATION VALUES SHOWN ON THE CROSS SECTIONS ARE VALUES (+) OR (-) TO BE ADDED TO OR SUBTRACTED FROM THE POINT OF CONTROL.
 - LENGTHS FOR L MAY BE ROUNDED IN MULTIPLES OF 25 FT. OR 50 FT. TO PERMIT SIMPLER CALCULATIONS.
 - PAVEMENTS WIDER THAN 2 LANES SHALL HAVE ADDITIONAL TRANSITION LENGTHS AS FOLLOWS:

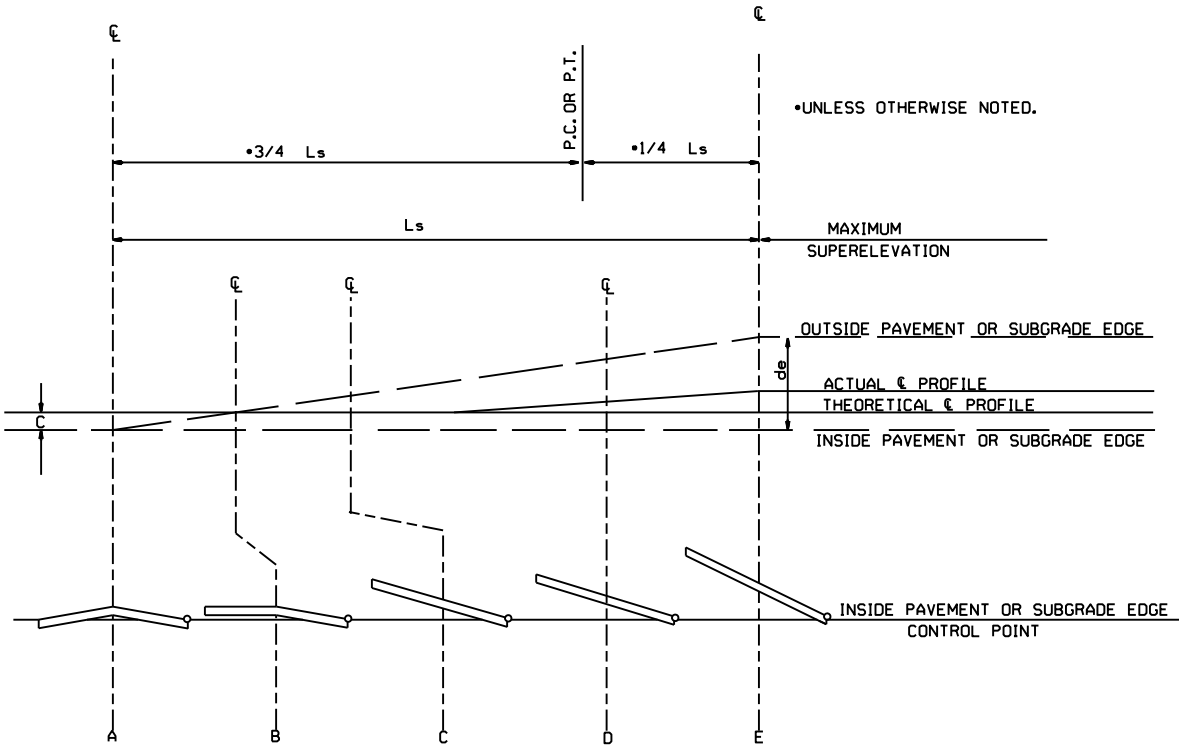
3 LANE UNDIVIDED - - - - +20%
4 LANE UNDIVIDED - - - - +50%
5 LANE UNDIVIDED - - - - +80%
6 LANE UNDIVIDED - - - - +100%

NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.
RATE OF SUPERELEVATION SHALL BE COMPUTED ON STRAIGHT LINE METHOD USING APPLICABLE Ls.

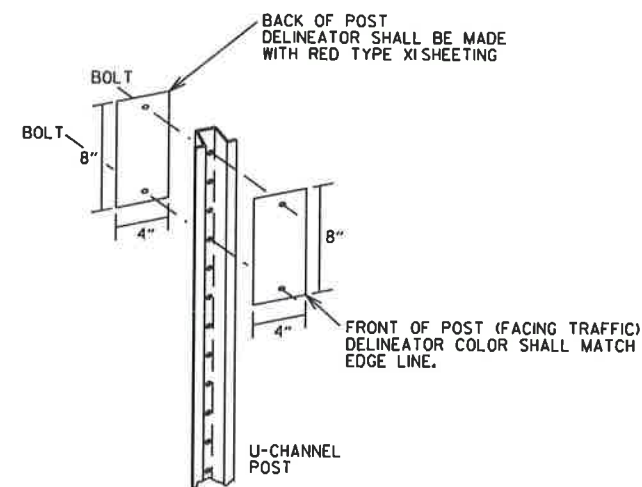
SUPERELEVATION FORMULA = $\frac{Lde}{Ls}$



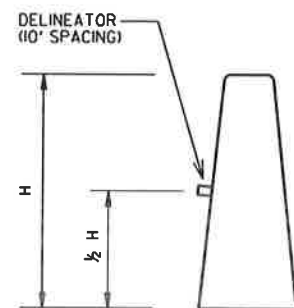
STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND CENTER LINE



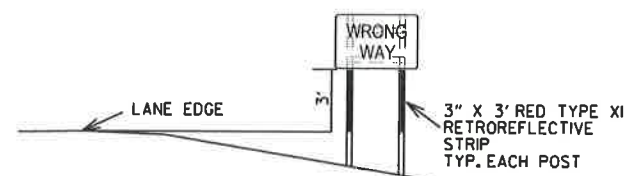
STANDARD METHOD WHEN SUPER



TYPE 2 DELINEATOR DETAILS

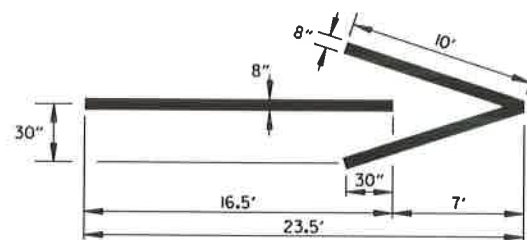


PERMANENT BARRIER WALL DELINEATOR DETAIL



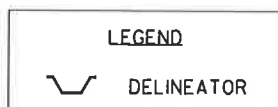
WRONG-WAY SIGN ASSEMBLY DETAILS

- NOTES
1. WRONG-WAY SIGNS MAY BE MOUNTED ON THE BACK SIDE OF EXISTING SIGN SUPPORTS WHERE POSSIBLE.
 2. WRONG-WAY SIGNS ARE NORMALLY GATED, BUT MAY BE OFFSET WHEN BARRIER WALLS ARE PRESENT ON THE INSIDE SHOULDER. IN SUCH CASES, THE SIGN ON THE INSIDE SHOULDER SIDE MAY BE LOCATED PAST THE END OF THE BARRIER WALL. IN RARE CASES WHERE THE BARRIER WALL EXTENDS TO OR NEAR THE MAIN LANES, BOTH SIGNS MAY BE LOCATED ON THE OUTSIDE SHOULDER SIDE OF THE RAMP, WITH APPROXIMATELY 300' SPACING BETWEEN THE SIGNS.

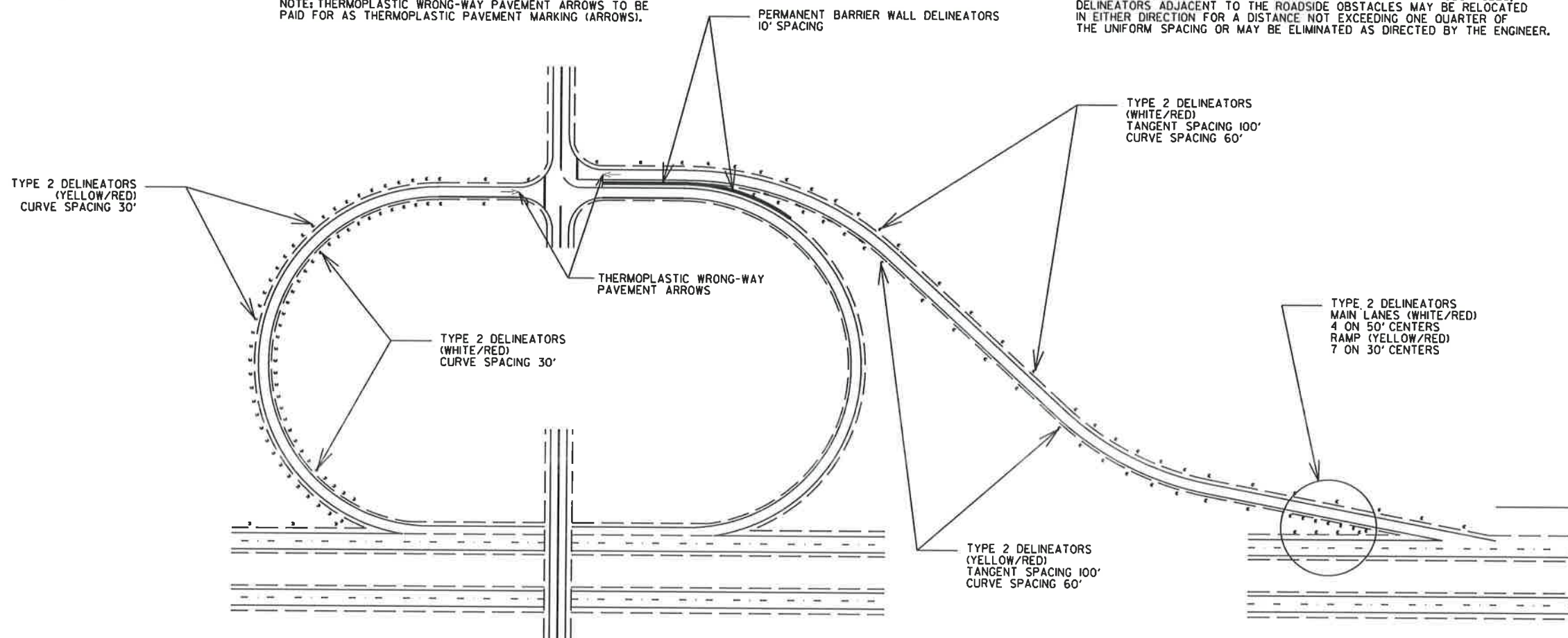


THERMOPLASTIC WRONG-WAY PAVEMENT ARROWS

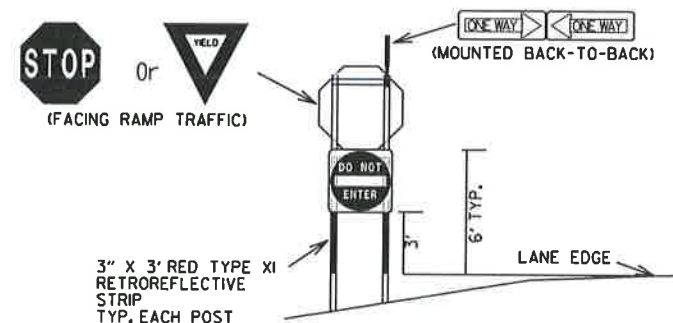
NOTE: THERMOPLASTIC WRONG-WAY PAVEMENT ARROWS TO BE PAID FOR AS THERMOPLASTIC PAVEMENT MARKING (ARROWS).



NOTE: WHEN UNIFORM SPACING IS INTERRUPTED BY ROADSIDE OBSTACLES, DELINEATORS ADJACENT TO THE ROADSIDE OBSTACLES MAY BE RELOCATED IN EITHER DIRECTION FOR A DISTANCE NOT EXCEEDING ONE QUARTER OF THE UNIFORM SPACING OR MAY BE ELIMINATED AS DIRECTED BY THE ENGINEER.



TYPICAL EXIT RAMP DELINEATOR PLACEMENT



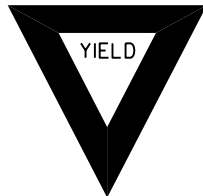
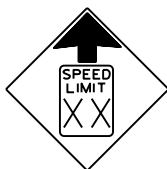
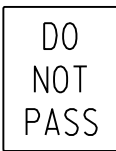
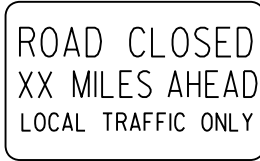
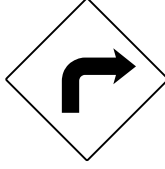
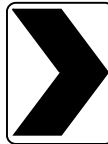
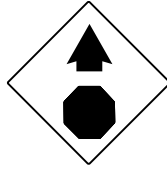
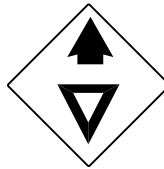
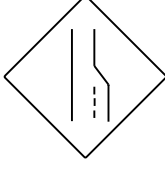
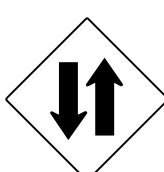
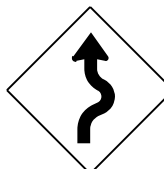
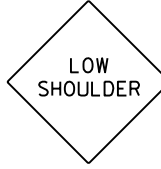
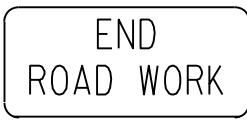
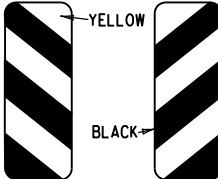
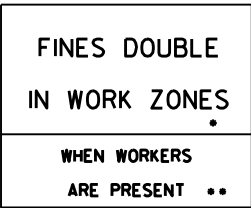
RAMP INTERSECTION SIGN ASSEMBLY DETAILS

THE DELINEATORS SHALL BE PLACED AT A 4' HEIGHT MEASURED FROM THE PAVEMENT EDGE TO THE BOTTOM OF THE DELINEATOR. DELINEATOR POSTS SHALL BE PLACED 2 TO 8 FT. OUTSIDE THE OUTER EDGE OF THE SHOULDER, OR IF APPROPRIATE, IN LINE WITH THE ROADSIDE BARRIER THAT IS 8 FT. OR LESS OUTSIDE THE OUTER EDGE OF THE SHOULDER.

DELINEATOR SPACING IN CURVES SHALL BE REDUCED TO 30' WHEN THE RAMP ADVISORY SPEED IS 30 MPH OR LESS.

IF MULTIPLE LANES EXIST AT THE RAMP TERMINAL, THE THERMOPLASTIC WRONG-WAY ARROW SHALL BE PLACED AS CLOSE TO THE RAMP TERMINAL TURNOUT AS POSSIBLE.

ARKANSAS STATE HIGHWAY COMMISSION		
TYPICAL EXIT RAMP SIGN AND DELINEATOR DETAILS		
STANDARD DRAWING SHS-8		
8-16-17	ADDED NOTES	
06-01-17	RE-DRAWN	
09-12-13	ISSUED AS STANDARD DRAWING	
DATE	REVISION	FILMED

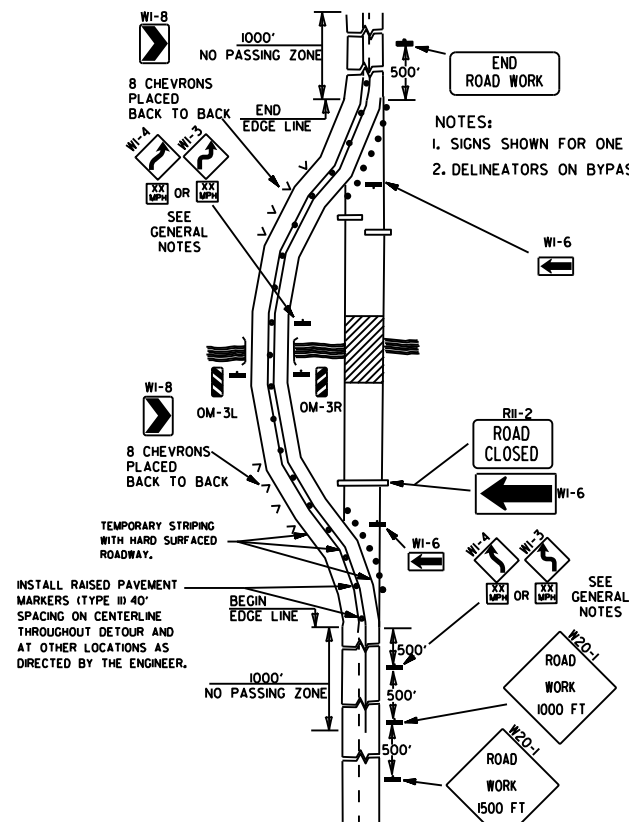
RI-I  STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"	RI-2  STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"	R2-I  STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"	W3-5  STD. 36"x36" EXPWY. 48"x48" FWY. 48"x48"	W3-5a  STD. 36"x36" EXPWY. 48"x48" FWY. 48"x48"	R4-I  STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"	R4-2  STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"	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.
R5-I  STD. 30"x30" EXPWY. 36"x36" SPECIAL 48"x48"	R1I-2  48"x30"	R1I-3A  60"x30"	R1I-4  60"x30"	W2I-5a  STD. 36"x36" FWY. 48"x48"	WI-I  STD. 36"x36" FWY. 48"x48"	WI-2  STD. 36"x36" FWY. 48"x48"	
WI-3  STD. 48"x48"	WI-4  STD. 48"x48"	WI-6  STD. 48"x24" SPECIAL 60"x30"	WI-8  STD. 18"x24" SPECIAL 24"x30" EXPWY. 30"x36" FWY. 36"x48"	W3-I  STD. 36"x36" SPECIAL 48"x48"	W3-2  STD. 36"x36" SPECIAL 48"x48"	W4-2  STD. 36"x36" FWY. 48"x48"	
W5-I  STD. 36"x36" SPECIAL 48"x48"	W6-3  EXPWY. 36"x36" SPECIAL 48"x48"	W8-7  EXPWY. 36"x36" FWY. 48"x48"	W9-2  STD. 36"x36" FWY. 48"x48"	W13-I  STD. 24"x24"	W20-I  STD. 48"x48"	W20-2  STD. 48"x48"	W20-3  STD. 48"x48"
W20-4  STD. 48"x48"	W20-5  STD. 48"x48"	W20-7a  18" 500 FEET 24" W16-2 STD. 36"x36" FWY. 48"x48"	W2I-2  STD. 30"x30" SPECIAL 36"x36"	W2I-5  STD. 30"x30" SPECIAL 36"x36"	W24-I  STD. 36"x36"	WI-4b  STD. 48"x48"	R56-I  STD. 18"x18"
W8-II  STD. 36"x36" FWY. 48"x48"	W8-9  STD. 36"x36" FWY. 48"x48"	G20-I  60"x24"	G20-2  48"x24"	OM-3L OM-3R  12"x36"	M4-9  STD. 30"x24" SPECIAL 48"x36" SPECIAL 60"x48"	M4-10  48"x18"	R55-I  36"x60" • USE 6" C LETTERS •• USE 4" D LETTERS

11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W2I-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	
DATE	REVISION	FILMED

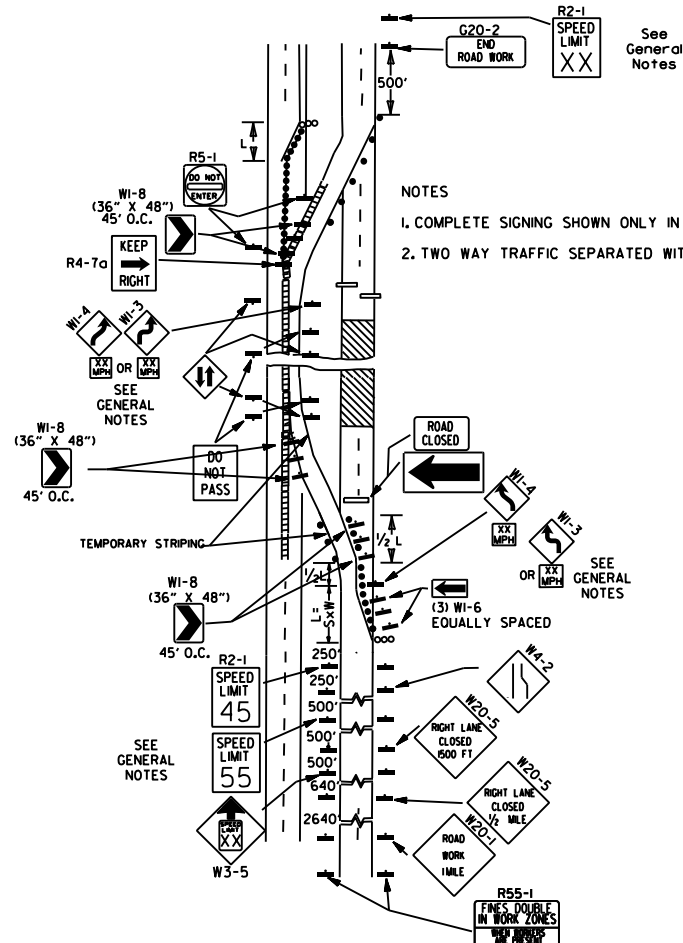
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION

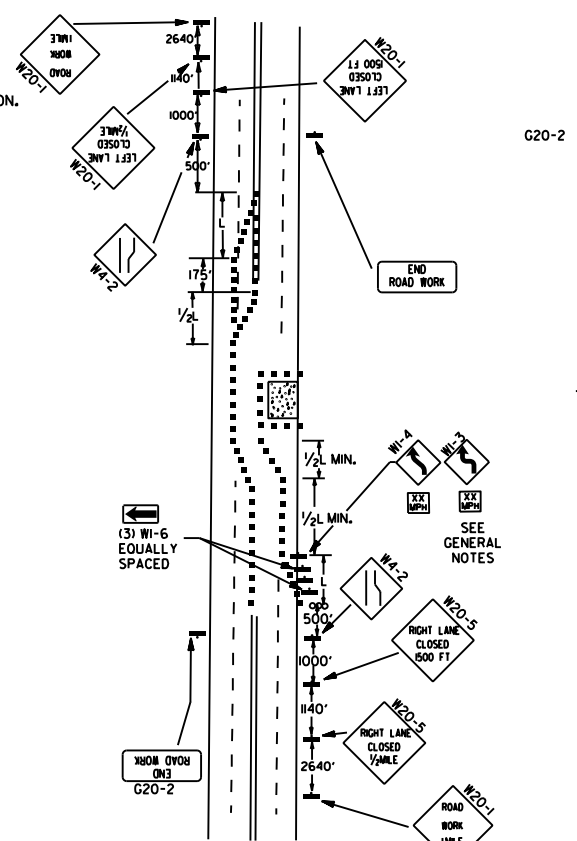
STANDARD DRAWING TC-1



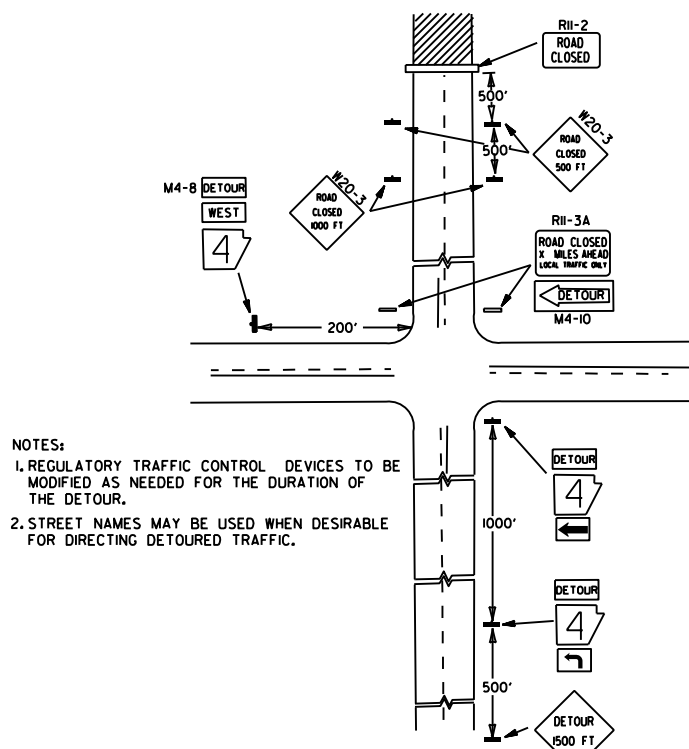
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



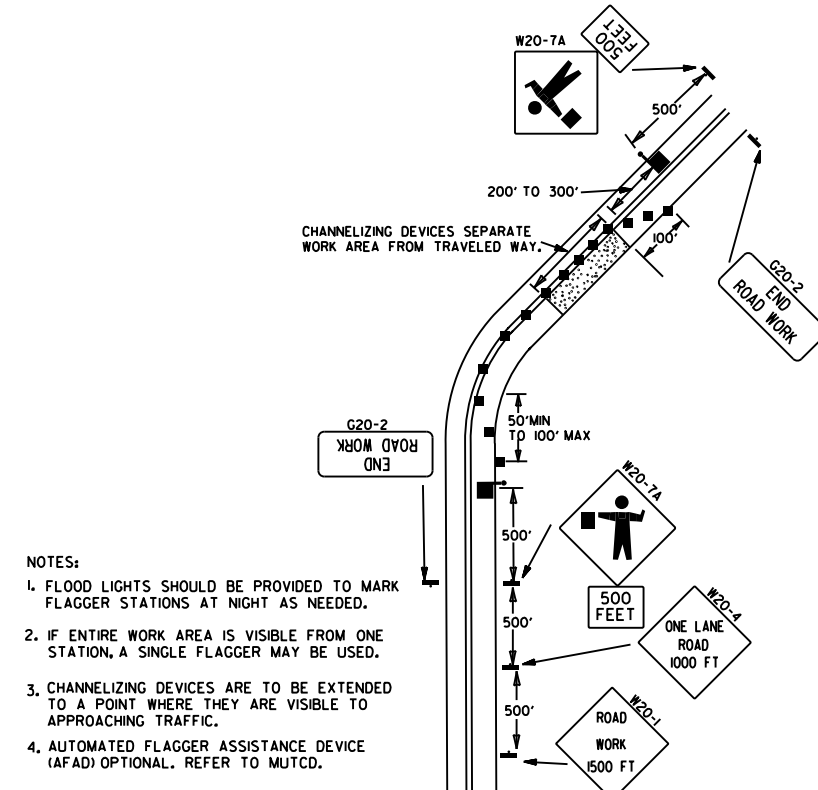
(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



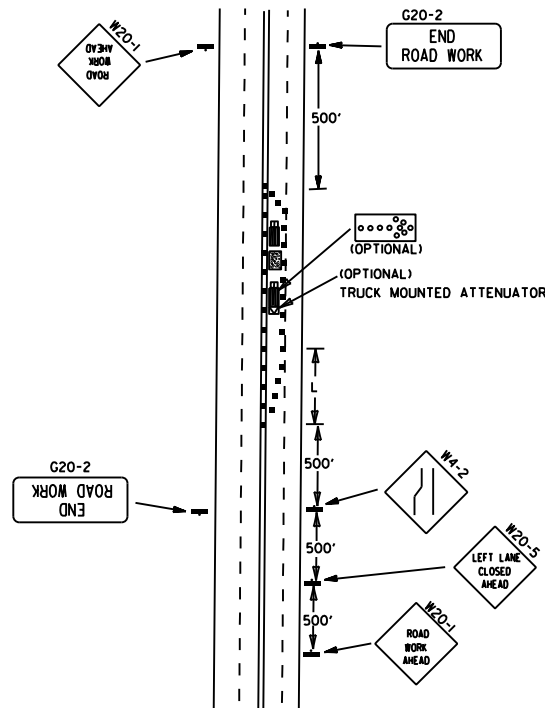
(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



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

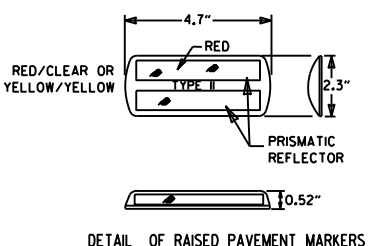


(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



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

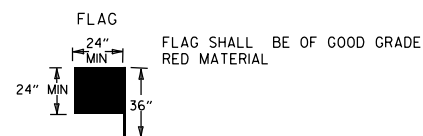
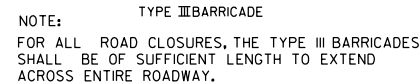
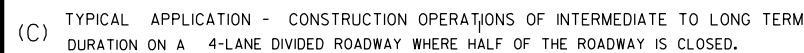
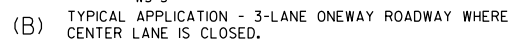
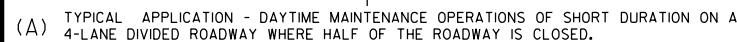
- KEY:
- FLAGGER
 - POSITIVE BARRIER
 - ARROW PANEL (IF REQUIRED)
 - TYPE III BARRICADE
 - CHANNELIZING DEVICE
 - TRAFFIC DRUM
 - RAISED PAVEMENT MARKER



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:
- 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.
 - WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(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 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
 - WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(65) SHALL BE OMITTED. ADDITIONAL R2-1(55)MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
 - 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.
 - WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
 - PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
 - 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.
 - 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.
 - 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).

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	
DATE	REVISION	FILMED



TRAFFIC CONTROL DEVICES			
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	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" ≤ 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 ⁽¹⁾
> 6" ≤ 18"	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" ≤ 24"	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 BARRIERS & 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.
3. 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.
4. 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.
5. W21-5, W21-5g, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.
6. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).

STOP SLOW PADDLE

FRONT BACK

SERIES "C" END

18"

6"

5'

COLORS
LEGEND-BLACK
BACKGROUND-ORANGE (REFL)
AREA OUTSIDE DIAMOND-BLACK

SIGN BOLT

POST SHALL NOT EXTEND

STABILIZED WEDGE

NOTE:
MATERIALS FOR THE STABILIZED WEDGE
SHALL MEET THE REQUIREMENTS PROVIDED
IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS.

NOTES: USE SPLICES ONLY WHEN NECESSARY
FOR INSTALLATION. TYPICAL INSTALLATION
SHOULD HAVE NO SPLICES (SEE STD. DRAWING
NO. SHS-2)

NORMAL INSTALLATIONS WILL REQUIRE
1/4" DIA. BOLTS TO MOUNT SIGNS TO POST
AND 5/16" DIA. BOLTS TO ASSEMBLE THE
VARIOUS POST SUPPORTS. EACH OF THESE
BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN;
SIGNS SHALL NOT BE PAINTED,
AND ALL SIGN POSTS SHALL BE PLUMB.

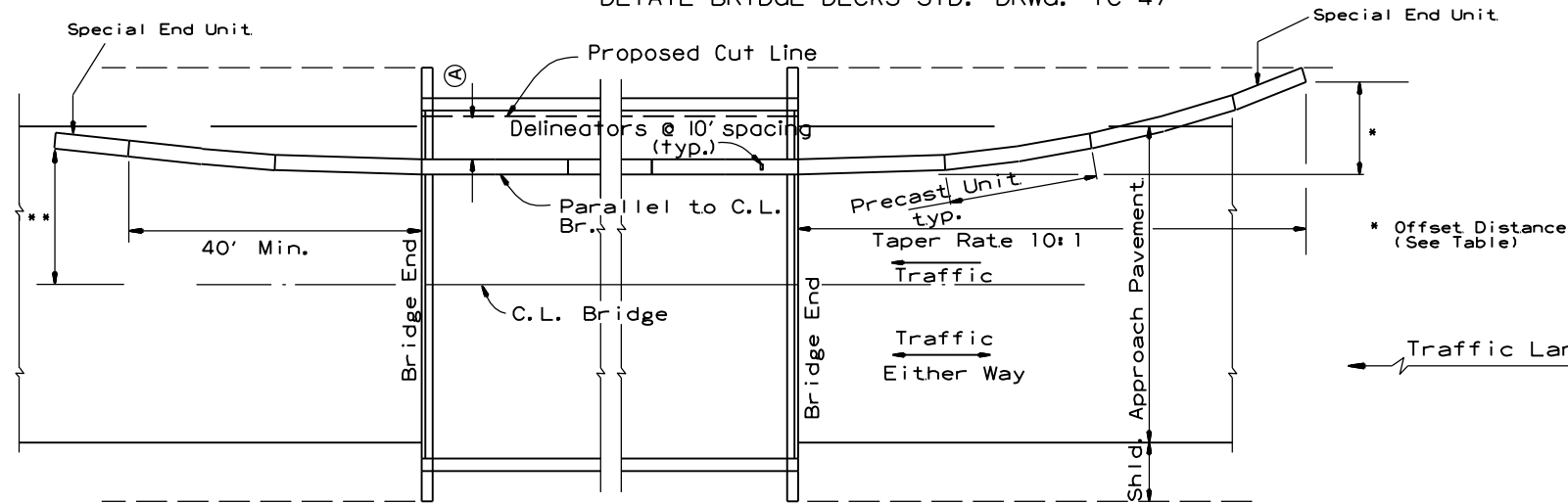
DETAIL OF SPLICES

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 11	
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 PLATE, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILE NUMBER

REVISION	FILM
ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	

STANDARD DRAWING TC-3

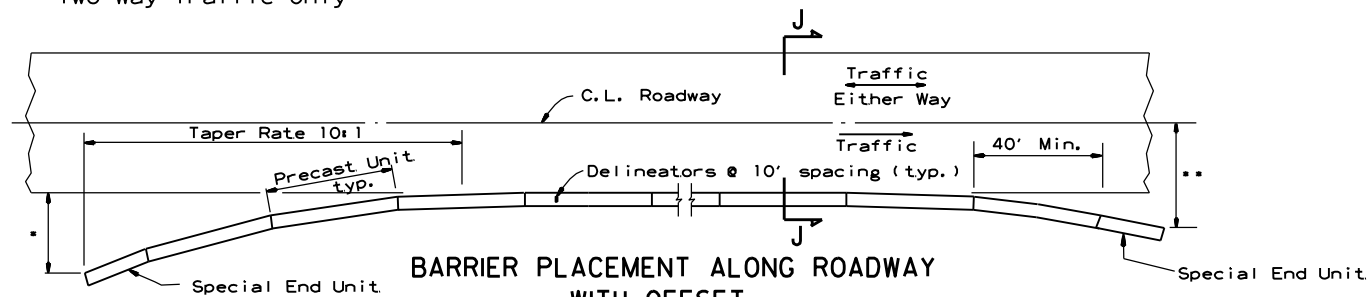
- (A) 4 feet or greater preferred. If less than 4 feet, Precast Units shall be connected to slab (SEE BARRIER STABILIZATION DETAIL-BRIDGE DECKS STD. DRWG. TC-4)



BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

No Scale

** Offset Distance for Two Way Traffic Only



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

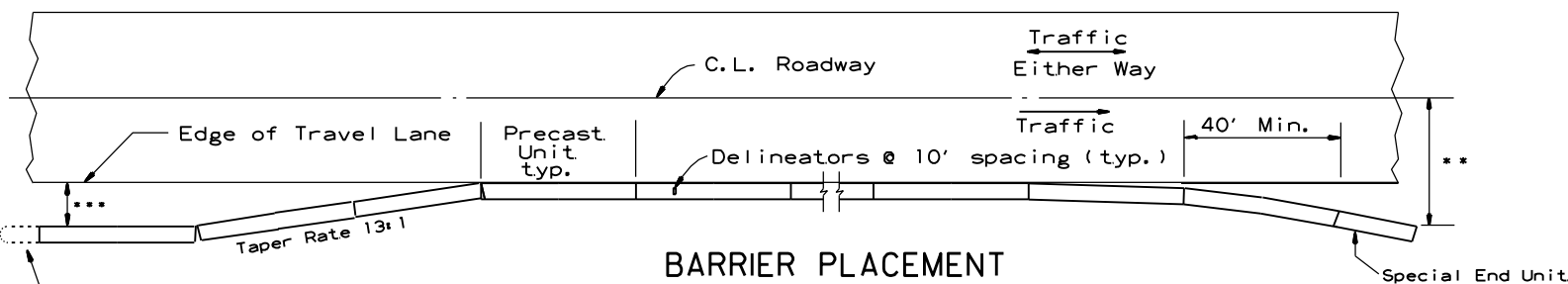
* Offset Distance (See Table)

** Offset Distance For Two Way Traffic Only

Offset Distance Table

Speed (MPH)	Offset Distance (FT.)
≤ 45	12
> 45	18

If offset distance is not attainable, then see "Barrier Placement With Attenuator" Detail shown below.

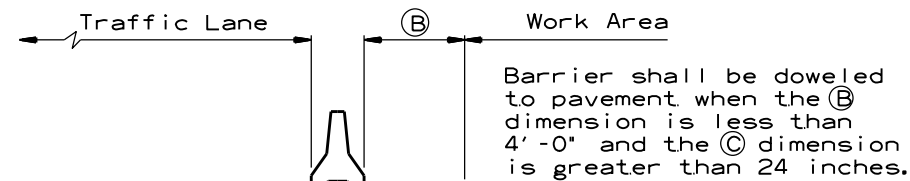


BARRIER PLACEMENT WITH ATTENUATOR

No Scale

** Offset Distance For Two Way Traffic Only

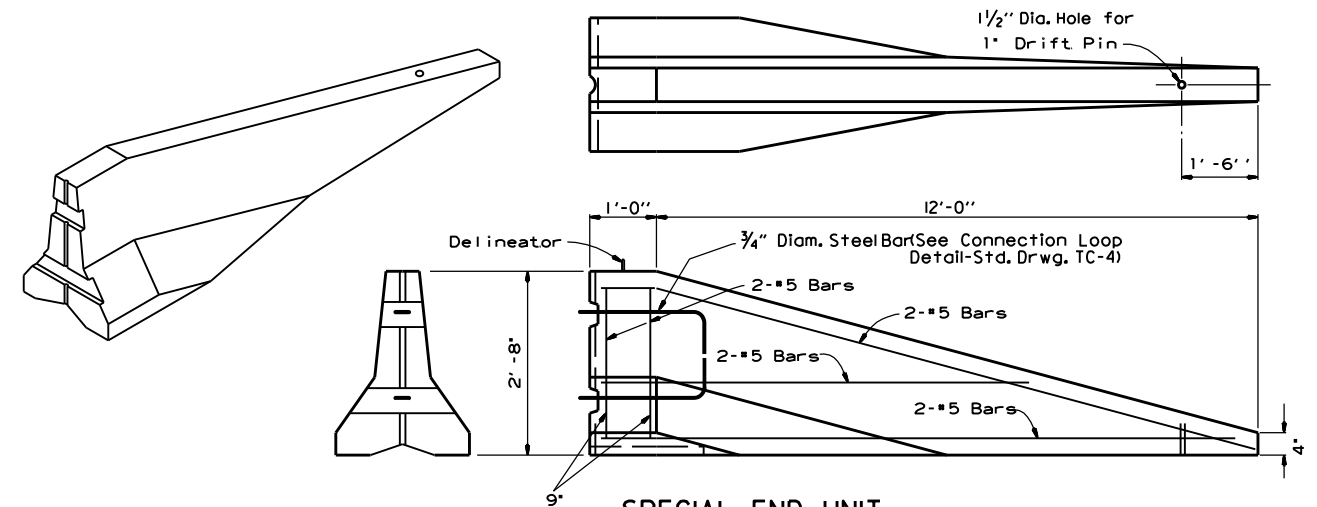
***Min. 3'-0" From Edge of Travel Lane to Nearest Edge of Attenuator



SECTION J-J

No Scale

Barrier shall be doweled to pavement when the B dimension is less than 4'-0" and the C dimension is greater than 24 inches.



SPECIAL END UNIT

No Scale

General Notes

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with a Manual For Assessing Safety Hardware (MASH) approved Crash Cushion. Payment for Crash Cushions shall be made under the item of "Temporary Impact Attenuation Barrier."

DATE	REVISION	FILMED
11-07-19	REVISED NOTE	
10-15-09	ADDED REFERENCE TO MASH	
5-25-06	REVISED BARRIER PLACEMENT	
8-22-02	ISSUED NEW DRAWING	

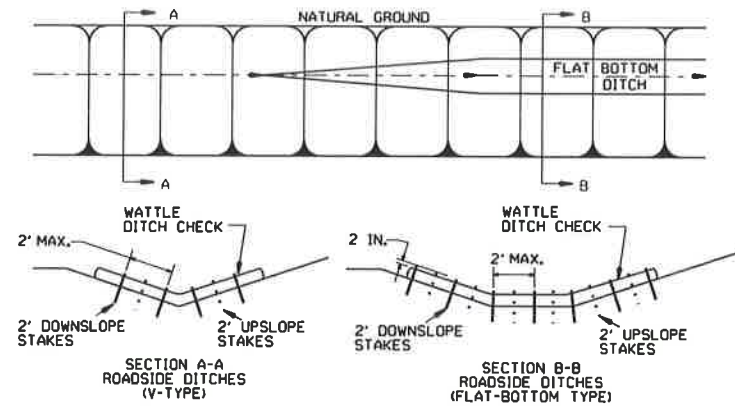
ARKANSAS STATE HIGHWAY COMMISSION

**STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION -
TEMPORARY PRECAST BARRIER**

STANDARD DRAWING TC-5

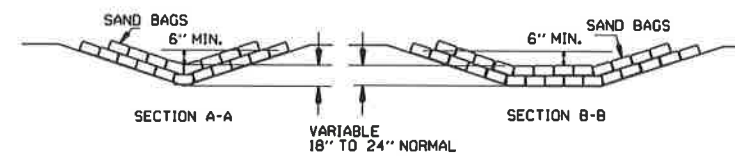
GENERAL NOTES

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

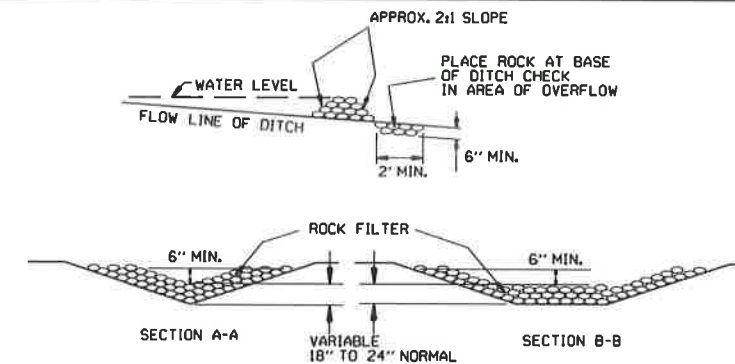


WATTLE DITCH CHECK (E-1)

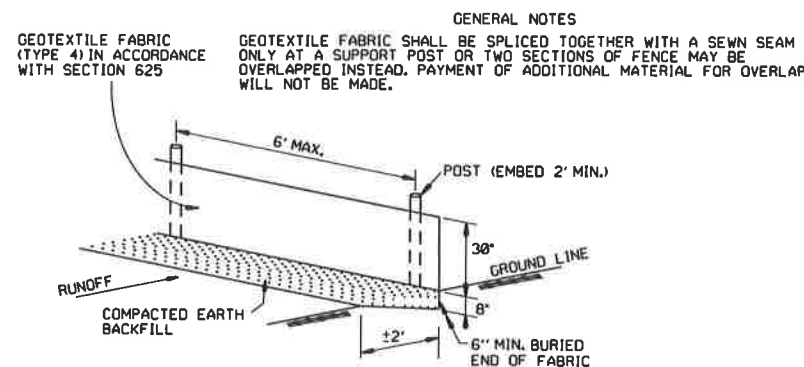
NUMBER OF SAND BAGS AND ARRANGEMENT VARIABLE WITH ON-SITE CONDITIONS. PLACE SAND BAGS AT BASE OF DITCH CHECK IN AREA OF OVERFLOW.



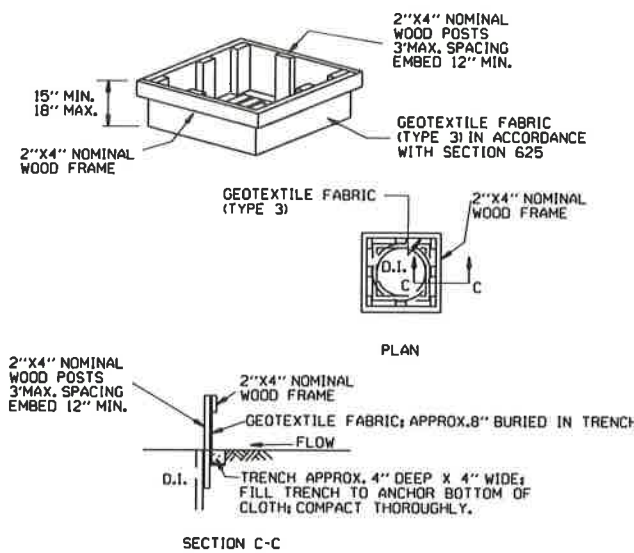
SAND BAG DITCH CHECK (E-5)



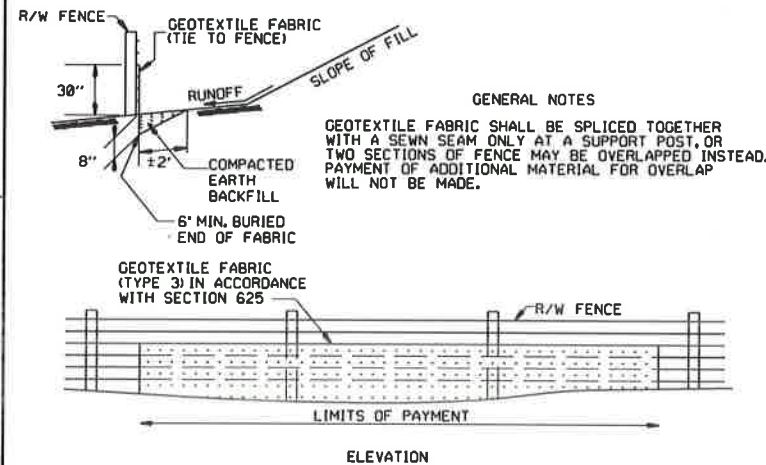
ROCK DITCH CHECK (E-6)



SILT FENCE (E-11)

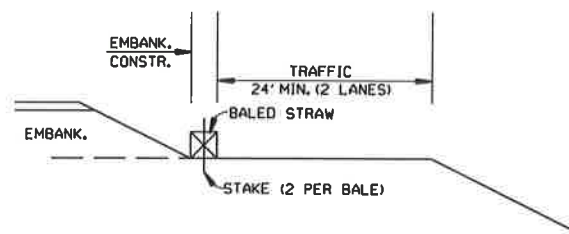


DROP INLET SILT FENCE (E-7)

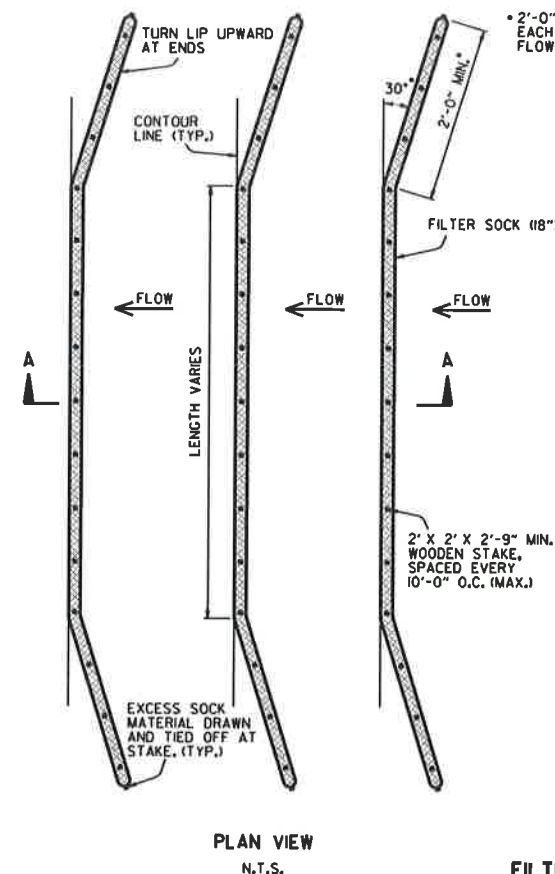


SILT FENCE ON R/W FENCE (E-4)

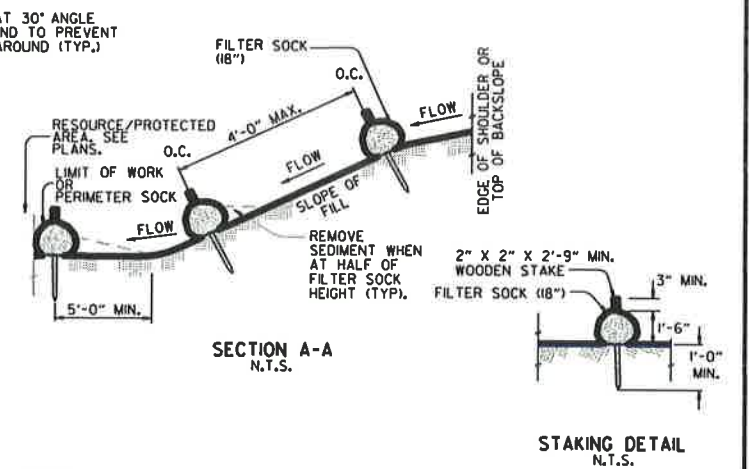
GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
2. NO GAPS SHALL BE LEFT BETWEEN BALES.
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL 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.



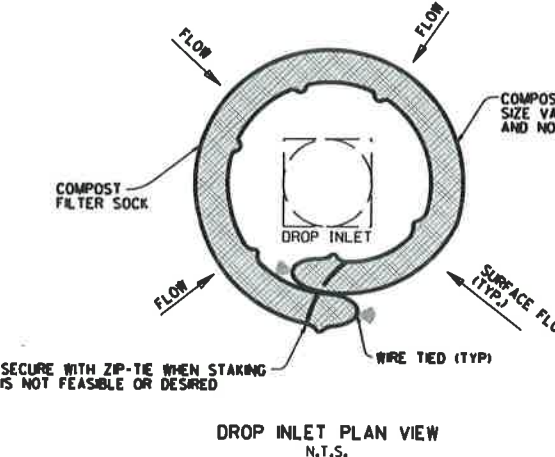
BALED STRAW FILTER BARRIER (E-2)



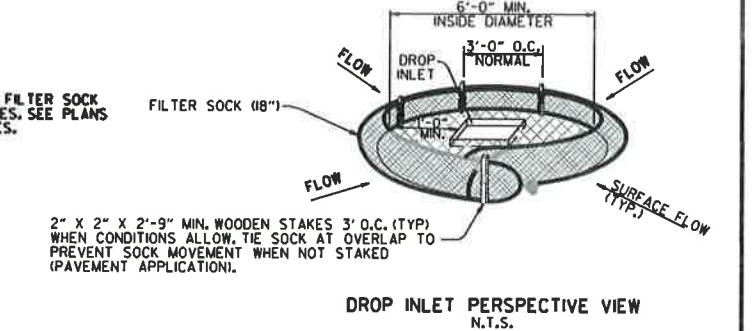
FILTER SOCK ALONG SLOPE (E-3)



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.

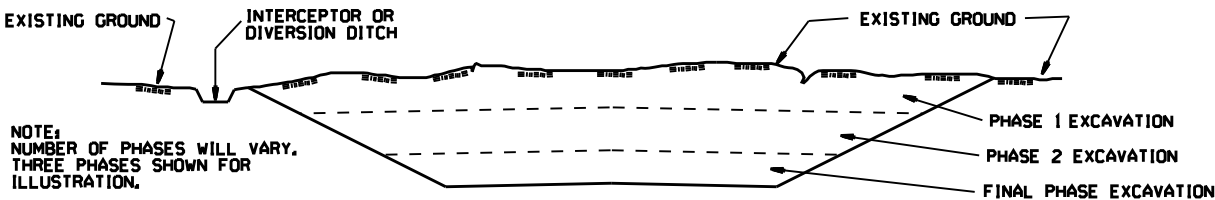
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
4-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1, 4, 7 & 11 DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.O.M.	298-7-28-76
DATE	REVISION	FILMED

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

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

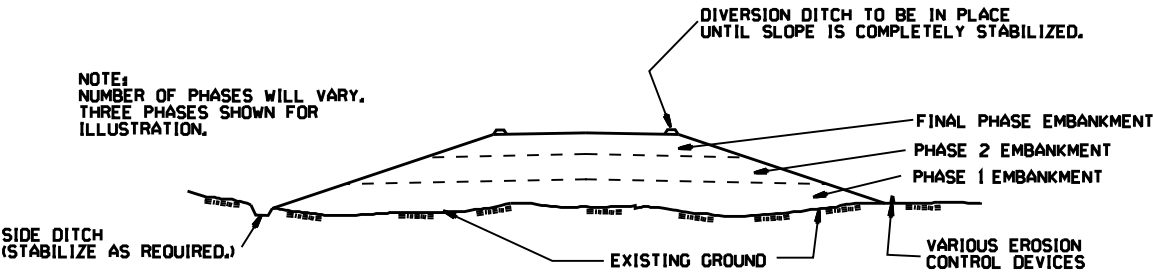


GENERAL NOTE

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

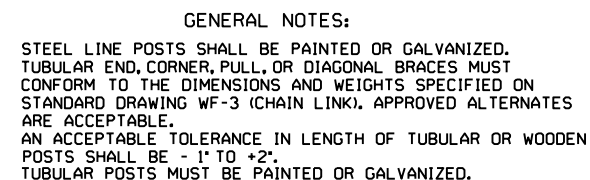


GENERAL NOTE

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.

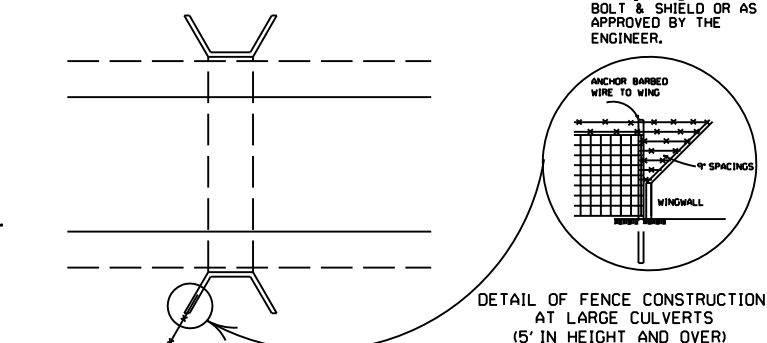
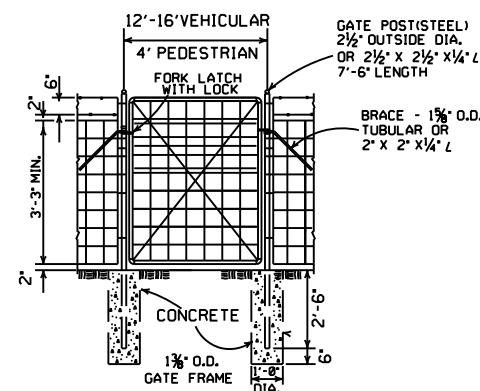
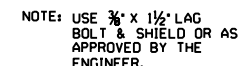
			ARKANSAS STATE HIGHWAY COMMISSION
			TEMPORARY EROSION CONTROL DEVICES
			STANDARD DRAWING TEC-3
11-03-94	CORRECTED SPELLING		
6-2-94	Drawn & Issued	6-2-94	
DATE	REVISION	FILED	



THE CONTRACTOR SHALL FURNISH AT LEAST 25% OF TIMBER LINE POSTS OF 7 FOOT LENGTHS IN ORDER TO PROVIDE SUFFICIENT SET IN SOFT GROUND OR SMALL DEPRESSIONS.

DRIVEWAY GATES, EITHER SINGLE 12' TO 16' OR DOUBLE 6' TO 8' OPENING 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 OF MAINTENANCE EQUIPMENT. LOCATION OF GATES TO BE SHOWN ON PLANS OR AS DESIGNATED BY THE ENGINEER.

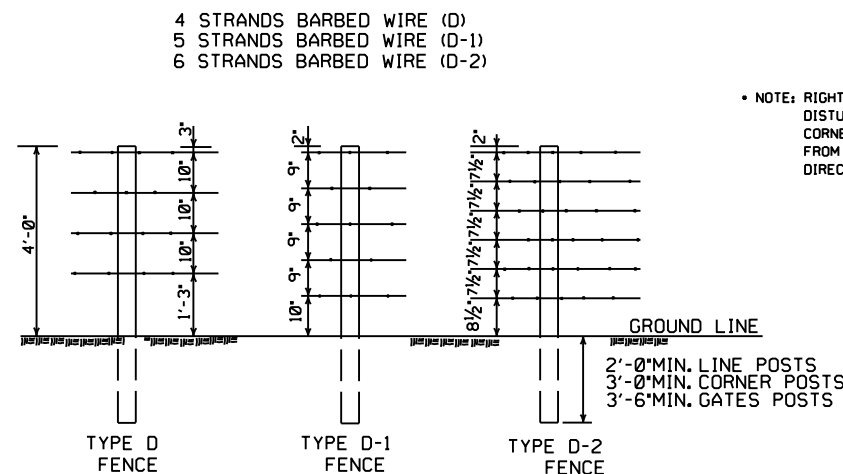
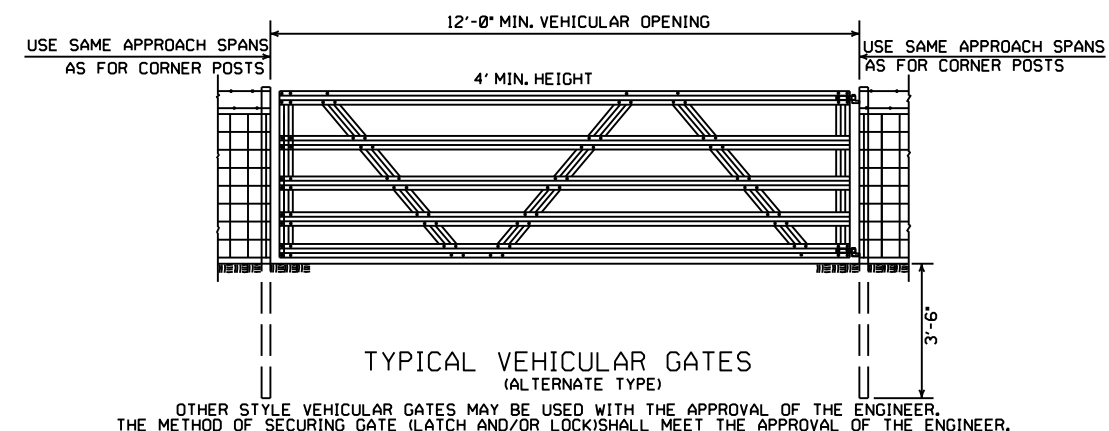
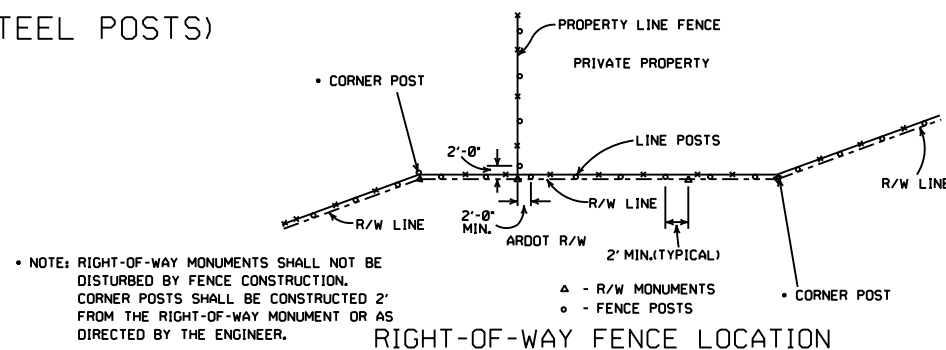
AT STREAM CROSSINGS, THE FENCE SHALL NOT BE CONSTRUCTED ACROSS LARGE STREAMS, WHERE CLEARANCE IS SUFFICIENT FROM THE TOP OF THE BANK TO THE BRIDGE STRUCTURE A CROSS CONNECTION SHALL BE CONSTRUCTED BETWEEN THE FENCE ON EACH SIDE OF THE ROAD, WHERE THE CLEARANCE IS NOT SUFFICIENT, THE FENCE SHALL BE TERMINATED WITH CROSS CONNECTIONS AND END POSTS ADJACENT TO BRIDGE ABUTMENTS OR CULVERT WINGWALLS.



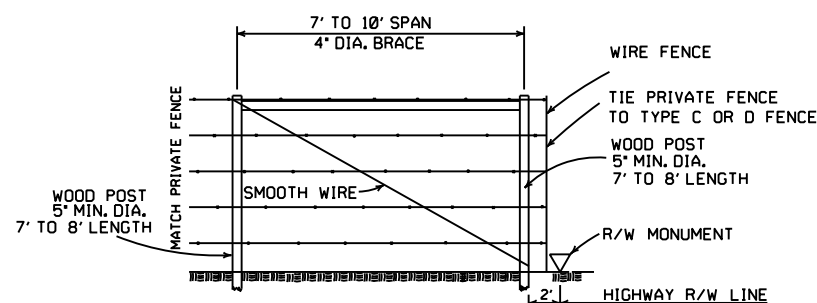
SPlice for BARBED WIRE BETWEEN PULL
POST ASSEMBLY SHALL BE BY THE "EYE
METHOD" AS DESCRIBED AS FOLLOWS:
THE ENDS OF THE BARBED WIRE SHALL BE
BENT TO FORM A LOOP THE LOOPS SHALL
BE CONNECTED, AFTER THE LOOPS ARE
CONNECTED THE ENDS OF THE WIRE SHALL
BE WRAPPED AROUND THE PROJECTING WIRES
A MINIMUM OF 4 TIMES FOR EACH WIRE
LOOP.

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.

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



NOTE: SPACING AND SIZE (EXCEPT LENGTH) OF POSTS, APPROACH SPANS, PULL POST ASSEMBLIES, AND CORNER BRACING FOR TYPE D FENCE SHALL CONFORM TO TYPE C FENCE. USE GALVANIZED STAPLES ON WOOD POSTS AND APPROVED FASTENERS ON STEEL POSTS.



PRIVATE FENCE TERMINAL INSTALLATION
WHERE EXISTING FENCE CONSISTS OF STEEL POSTS, USE END POST ASSEMBLY AS
SHOWN IN TYPE C FENCE OR OTHER END POST ASSEMBLY AS APPROVED BY THE ENGINEER.

8-22-02	REVISED GENERAL NOTES	
10-18-96	REVISED AASHTO	
11-22-95	REVISED R-O-W LOCATION DETAIL	
6-2-94	REVISED BARN WIRE AND	6-2-94
	ADDED CORNER POST NOTES	
8-5-93	REVISED R/W INSTALLATION FENCE	8-5-93
10-1-92	ADDED STAPLE NOTE	10-1-92
8-15-91	ADDED TYPE D-2 FENCE	8-15-91
11-30-89	DELETED CLASS CONCRETE	11-30-89
7-15-88	ADDED SPLICE NOTE	707-7-15-88
10-30-87	GENERAL REVISIONS	549-10-30-87
11-1-84	MAX. POST SPACING MIN. WIRE GAUGE	507-11-1-84
1-4-83	MIN. DIA. LINE POST	648-1-4-83
3-2-81	TOLERANCE FOR POST LENGTH	722-3-2-81
12-1-72	ADDED D-1 & FENCE INSTALLATION	564-12-1-72
10-2-72	REVISED AND REDRAWN	540-10-2-72
DATE	REVISION	ETI MEM

ARKANSAS STATE HIGHWAY COMMISSION

WIRE FENCE
TYPE C AND D

STANDARD DRAWING WF-4