DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	1	605
				(2)	HWY. 110 - CLINTON (WIDENING) (S)			

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

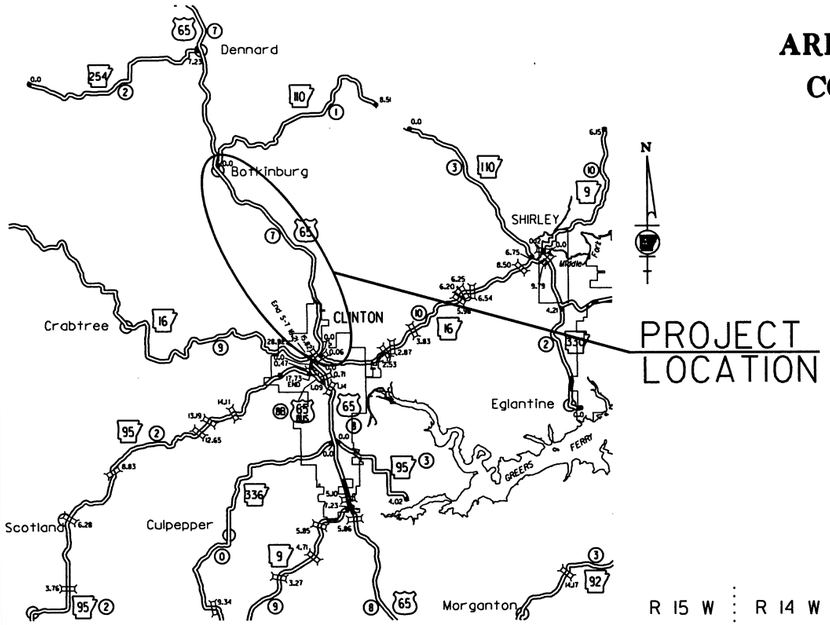
HWY. 110 - CLINTON (WIDENING) (S)

VAN BUREN COUNTY

ROUTE 65 SECTION 7

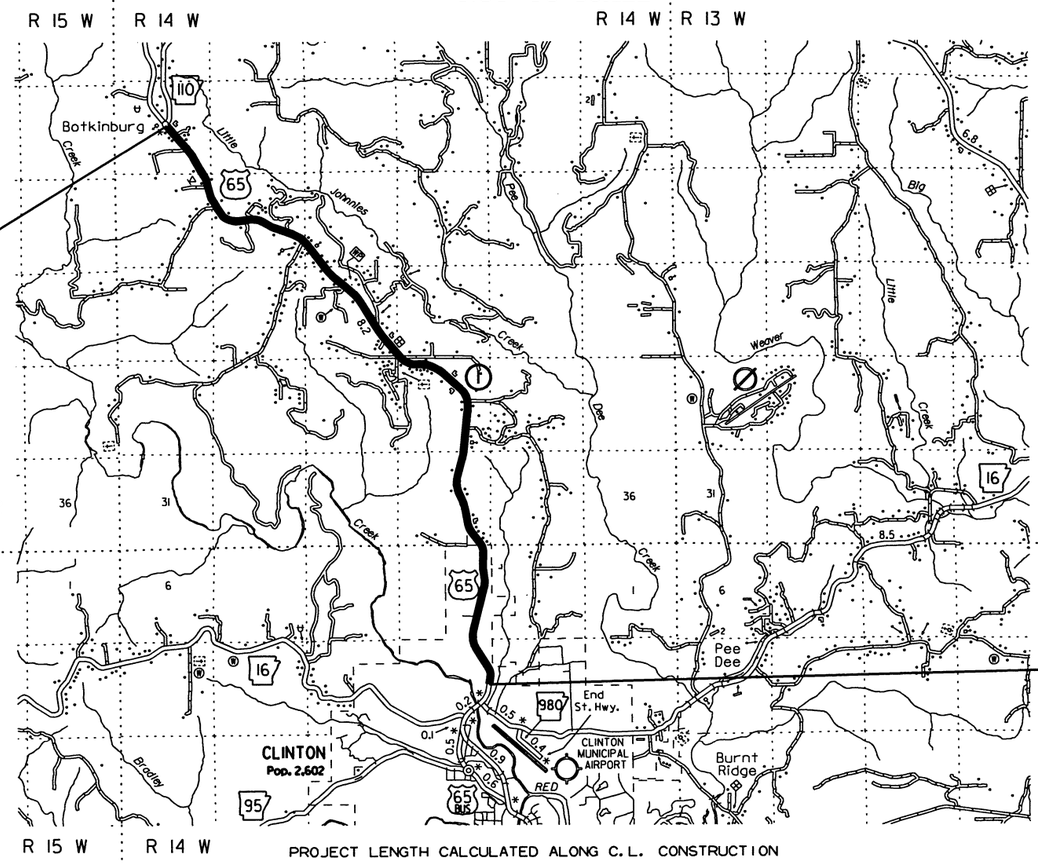
F.A.P. ACNHPP-0071(31)

JOB CA0801



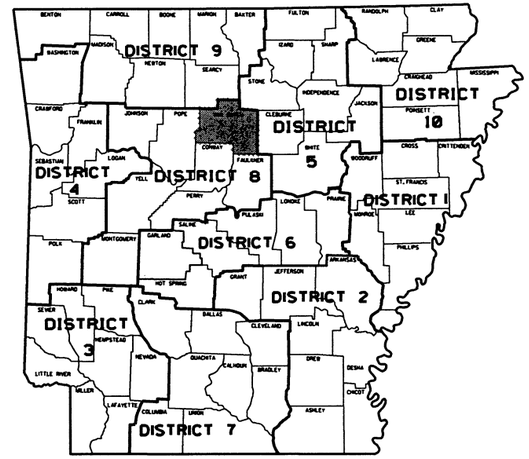
VICINITY MAP

NOT TO SCALE



STA. 912+34.04
END JOB CA0801

STA. 497+04.36
BEGIN JOB CA0801
END JOB 080390
LOG MILE 15.63



ARKANSAS HWY. DIST. 8

• DESIGN TRAFFIC DATA •

DESIGN YEAR	2039
2019 ADT	5900
2039 ADT	8200
DHV	902
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS	18%
DESIGN SPEED	60 MPH

STATION EQUATIONS

(1) 674+83.65 BK.= 675+00.00 AHD.

PROJECT COORDINATES:

	BEGIN	MID-POINT	END
LAT.	N35° 36' 27"	N35° 39' 28"	N35° 41' 48"
LON.	W92° 27' 26"	W92° 28' 40"	W92° 30' 57"

PROJECT LENGTH CALCULATED ALONG C.L. CONSTRUCTION
GROSS LENGTH OF PROJECT 41513.33 FEET OR 7.862 MILES
NET LENGTH OF ROADWAY 41513.33 FEET OR 7.862 MILES
NET LENGTH OF BRIDGES 0.00 FEET OR 0.000 MILES
NET LENGTH OF PROJECT 41513.33 FEET OR 7.862 MILES

APPROVED

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 7635
M. E. BANKS

11-16-18

DEPUTY DIRECTOR
AND CHIEF ENGINEER

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	2	605

(2) INDEX OF SHEETS AND STANDARD DRAWINGS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARD DRAWINGS
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES
4 - 6	TYPICAL SECTIONS OF IMPROVEMENT
7 - 11	SPECIAL DETAILS
12 - 59	TEMPORARY EROSION CONTROL DETAILS
60 - 94	MAINTENANCE OF TRAFFIC DETAILS
95 - 97	PERMANENT PAVEMENT MARKING DETAILS
98 - 110	QUANTITIES
111 - 112	SUMMARY OF QUANTITIES AND REVISIONS
113 - 130	SURVEY CONTROL DETAILS
131 - 172	PLAN AND PROFILE SHEETS
173	UTILITY RELOCATION OVERALL INDEX
174 - 176	UTILITY RELOCATION INDEX
177	UTILITY RELOCATION GENERAL NOTES
178	UTILITY RELOCATION QUANTITIES
179 - 269	UTILITY RELOCATION
270 - 605	CROSS SECTIONS

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

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
CG-1	CURBING DETAILS	11-29-07
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9	DETAILS OF DROP INLETS & JUNCTION BOXES	11-16-01
FPC-9S	DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)	07-26-12
MB-1	MAILBOX DETAILS	11-18-04
PBC-1	PRECAST CONCRETE BOX CULVERTS	01-28-15
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCM-1	METAL PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCP-1	PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)	02-27-14
PCP-2	PLASTIC PIPE CULVERT (PVC F949)	02-27-14
PM-1	PAVEMENT MARKING DETAILS	06-01-17
PU-1	DETAILS OF PIPE UNDERDRAIN	12-08-16
RCB-1	REINFORCED CONCRETE BOX CULVERT DETAILS	07-26-12
RCB-2	EXCAVATION PAY LIMITS, BACKFILL, & SOLID SODDING FOR BOX CULVERTS	11-20-03
RCB-3	METHOD OF EXTENDING EXISTING R.C. BOX CULVERTS	10-12-95
SE-2	TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC	10-18-96
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-13-17
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	02-27-14
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	10-15-09
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
TEC-4	TEMPORARY EROSION CONTROL DEVICES	07-26-12
WF-2	WIRE FENCE WATER GAPS	04-20-79
WF-3	CHAIN LINK FENCE	11-17-10
WF-4	WIRE FENCE TYPE C AND D	08-22-02
W-X003-1	DETAILS OF STANDARD WINGS FOR REINFORCED CONCRETE BOX CULVERTS	05-10-66
R-100X-0	DETAILS OF STANDARD BARREL SECTIONS FOR REINFORCED CONCRETE BOX CULVERTS	02-08-63

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11-27-18				6	ARK.			
				JOB NO.		CA0801	3	605
				(2) GOVERNING SPECS. AND GENERNAL 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 CA0801
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
108-1_____ LIQUIDATED DAMAGES
108-2_____ WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1_____ PROTECTION OF WATER QUALITY AND WETLANDS
303-1_____ AGGREGATE BASE COURSE
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
410-1_____ CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2_____ DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
505-1_____ PORTLAND CEMENT CONCRETE DRIVEWAY
600-2_____ INCIDENTAL CONSTRUCTION
604-1_____ RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
605-1_____ CONCRETE DITCH PAVING
606-1_____ PIPE CULVERTS FOR SIDE DRAINS
620-1_____ MULCH COVER
634-1_____ CURBING
800-1_____ STRUCTURES
802-3_____ CONCRETE FOR STRUCTURES
JOB CA0801_ ABANDONMENT OF WATER AND SEWER LINES
JOB CA0801_ AIR RELEASE VALVE ASSEMBLY
JOB CA0801_ ARCHEOLOGICAL MONITORING
JOB CA0801_ ARKANSAS STATE HIGHWAY CROSSINGS AND RAILROAD CROSSINGS FOR WATER AND SEWER MAINS
JOB CA0801_ BIDDING REQUIREMENTS AND CONDITIONS
JOB CA0801_ BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB CA0801_ BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB CA0801_ CARGO PREFERENCE ACT REQUIREMENTS
JOB CA0801_ CAST-IN-PLACE MANHOLES
JOB CA0801_ CAVE DISCOVERY
JOB CA0801_ CONCRETE AND REINFORCING STEEL FOR WATER AND SEWER FACILITIES
JOB CA0801_ CONSTRUCTION PROJECT INFORMATION SIGN
JOB CA0801_ COUNTY ROAD BORE (HDPE)
JOB CA0801_ CUT IN FITTING ON EXISTING WATER MAIN
JOB CA0801_ DENSITY TESTING FOR WATER AND SEWER MAINS
JOB CA0801_ DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB CA0801_ DISINFECTION OF WATER LINES
JOB CA0801_ DRIVEWAY/MISCELLANEOUS BORE (HDPE)
JOB CA0801_ DUCTILE IRON PIPE AND FITTINGS FOR WATER MAINS
JOB CA0801_ ELECTRONIC DOCUMENT MANAGEMENT – CONNECTING ARKANSAS PROGRAM
JOB CA0801_ EMPLOYMENT REPORTING
JOB CA0801_ EXISTING WATER AND SEWER UTILITIES
JOB CA0801_ EXTENSION FOR PIPE CULVERTS
JOB CA0801_ FINAL INSPECTION AND ACCEPTANCE OF WATER AND SEWER FACILITIES
JOB CA0801_ FLEXIBLE BEGINNING OF WORK – CALENDAR DAY CONTRACT
JOB CA0801_ FLUSHING HYDRANT
JOB CA0801_ GATE VALVES
JOB CA0801_ GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB CA0801_ HIGHWAY CROSSING MARKER
JOB CA0801_ HYDROSTATIC TESTING OF WATER LINES, SEWER FORCE MAINS, AND APPURTENANCES
JOB CA0801_ LINE STOP ON EXISTING WATER MAIN
JOB CA0801_ LOW PRESSURE AIR TESTING OF GRAVITY SEWER LINES
JOB CA0801_ MANDATORY ELECTRONIC CONTRACT
JOB CA0801_ MANDREL TESTING OF PVC SEWER LINES
JOB CA0801_ MASTER METER
JOB CA0801_ OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB CA0801_ PARTNERING REQUIREMENTS
JOB CA0801_ PERCENT WITHIN LIMITS/PAVEMENT SMOOTHNESS (IRI)
JOB CA0801_ PIPE CULVERTS
JOB CA0801_ PLASTIC PIPE
JOB CA0801_ POLYETHYLENE ENCASEMENT
JOB CA0801_ POLYETHYLENE ENCASEMENT PIPE AND APPURTENANCES
JOB CA0801_ POLYETHYLENE SERVICE TUBING
JOB CA0801_ POLYVINYL CHLORIDE (PVC) ENCASEMENT PIPE
JOB CA0801_ POLYVINYL CHLORIDE (PVC) GRAVITY SEWER LINES AND FORCE MAINS

GOVERNING SPECIFICATIONS (CONTINUED)

JOB CA0801_ POLYVINYL CHLORIDE (PVC) WATER MAIN
JOB CA0801_ PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB CA0801_ PROSECUTION AND PROGRESS WITH BID SCHEDULE
JOB CA0801_ PROTECTIVE COATING FOR MANHOLES AND OTHER STRUCTURES
JOB CA0801_ RAISE EXISTING MANHOLE COVER (MANHOLE RISERS)
JOB CA0801_ RECONNECT EXISTING WATER SERVICE
JOB CA0801_ RELOCATE EXISTING WATER SERVICE
JOB CA0801_ RESTRAINING CONDITION
JOB CA0801_ SETTLEMENT AGREEMENTS
JOB CA0801_ SHORING FOR CULVERTS
JOB CA0801_ SITE PREPARATION, EXCAVATION, AND FILL FOR WATER AND SEWER FACILITIES
JOB CA0801_ SITE USE (A+C METHOD) - CALENDAR DAY CONTRACT
JOB CA0801_ SOIL STABILIZATION
JOB CA0801_ STATE HIGHWAY CROSSING (HDPE)
JOB CA0801_ STEEL ENCASEMENT PIPE AND APPURTENANCES
JOB CA0801_ STORAGE AND HANDLING OF WATER AND SEWER MATERIALS
JOB CA0801_ STORM WATER POLLUTION PREVENTION PLAN
JOB CA0801_ STREET AND COUNTY ROAD CROSSINGS FOR WATER AND SEWER MAINS
JOB CA0801_ SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB CA0801_ SUBMITTALS FOR WATER AND SEWER ITEMS
JOB CA0801_ SURFACE REMOVAL FOR WATER AND SEWER FACILITIES
JOB CA0801_ TAPPING SLEEVES AND VALVES
JOB CA0801_ TESTING AND CERTIFICATIONS FOR WATER AND SEWER FACILITIES
JOB CA0801_ TRACER WIRE TEST STATION
JOB CA0801_ TRENCH SAFETY, GRANULAR BACKFILL, AND TRENCH STABILIZATION
JOB CA0801_ UTILITY ADJUSTMENTS
JOB CA0801_ VACUUM TESTING OF MANHOLES
JOB CA0801_ VALUE ENGINEERING
JOB CA0801_ VALVE MARKER
JOB CA0801_ WARM MIX ASPHALT
JOB CA0801_ WATER AND SEWER MAIN PIPE BACKFILL MATERIAL AND AGGREGATE BASE COURSE
JOB CA0801_ WATER AND SEWER SERVICE CONNECTIONS
JOB CA0801_ WATER POLLUTION CONTROL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-28-18

GENERAL NOTES

1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
2. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
3. 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.
4. 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.
5. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
6. 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 INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
7. 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.
8. THIS PROJECT IS COVERED UNDER A SECTION 404 STANDARD INDIVIDUAL PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.
9. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
10. 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.
11. 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.

11/27/2018
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GOVERNING SPECIFICATIONS AND GENERAL NOTES

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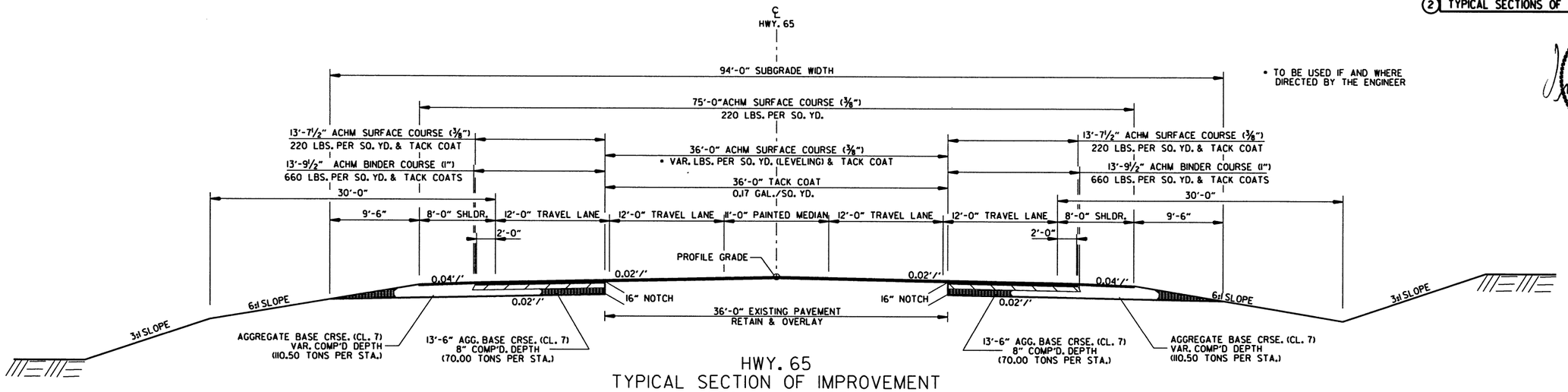
				6	ARK.			
				JOB NO.		CA0801	4	605

(2) TYPICAL SECTIONS OF IMPROVEMENT

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

HWY. 65
TYPICAL SECTION OF IMPROVEMENT
NOTCH AND WIDEN

STA. 497+04.36 TO STA. 501+56.00
STA. 522+50.00 TO STA. 559+40.88
STA. 563+70.83 TO STA. 568+75.00
STA. 572+50.00 TO STA. 577+50.00
STA. 581+00.00 TO STA. 602+50.00
STA. 606+50.00 TO STA. 609+25.00
STA. 622+00.00 TO STA. 625+85.00
STA. 645+00.00 TO STA. 707+00.00
STA. 709+00.00 TO STA. 718+00.00
STA. 723+00.00 TO STA. 768+00.00
STA. 839+54.85 TO STA. 912+34.04

NOTES:

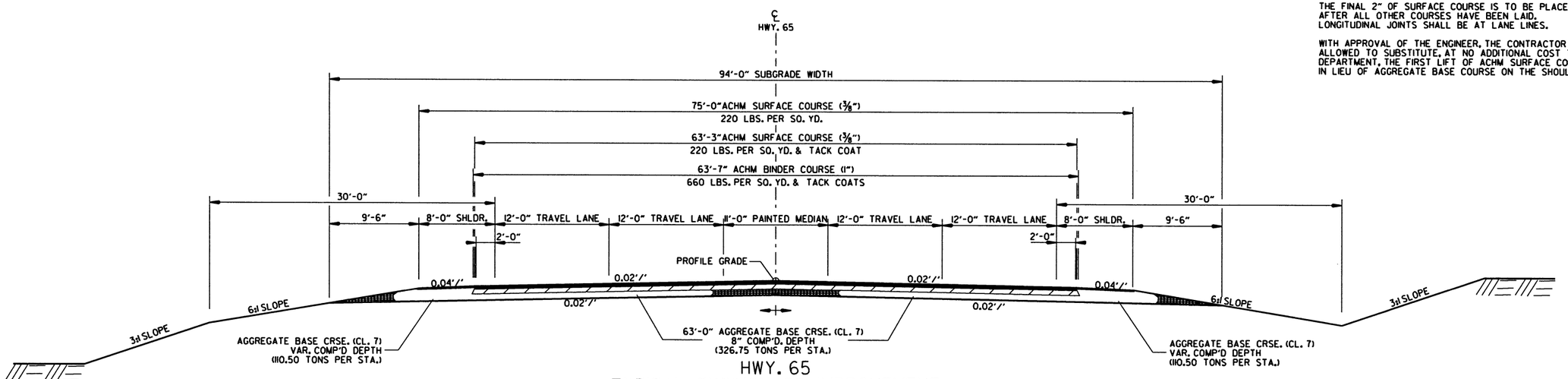
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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/OR LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY BUT PAYMENT WILL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS.

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

WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE, AT NO ADDITIONAL COST TO THE DEPARTMENT, THE FIRST LIFT OF ACHM SURFACE COURSE (½") IN LIEU OF AGGREGATE BASE COURSE ON THE SHOULDERS.



HWY. 65
TYPICAL SECTION OF IMPROVEMENT
FULL DEPTH

STA. 501+56.00 TO STA. 522+50.00
STA. 559+40.88 TO STA. 563+70.83
STA. 568+75.00 TO STA. 572+50.00
STA. 577+50.00 TO STA. 581+00.00
STA. 602+50.00 TO STA. 606+50.00
STA. 609+25.00 TO STA. 622+00.00
STA. 625+85.00 TO STA. 645+00.00
STA. 707+00.00 TO STA. 709+00.00
STA. 718+00.00 TO STA. 723+00.00
STA. 827+00.00 TO STA. 829+00.00

TYPICAL SECTIONS OF IMPROVEMENT

11/9/2018

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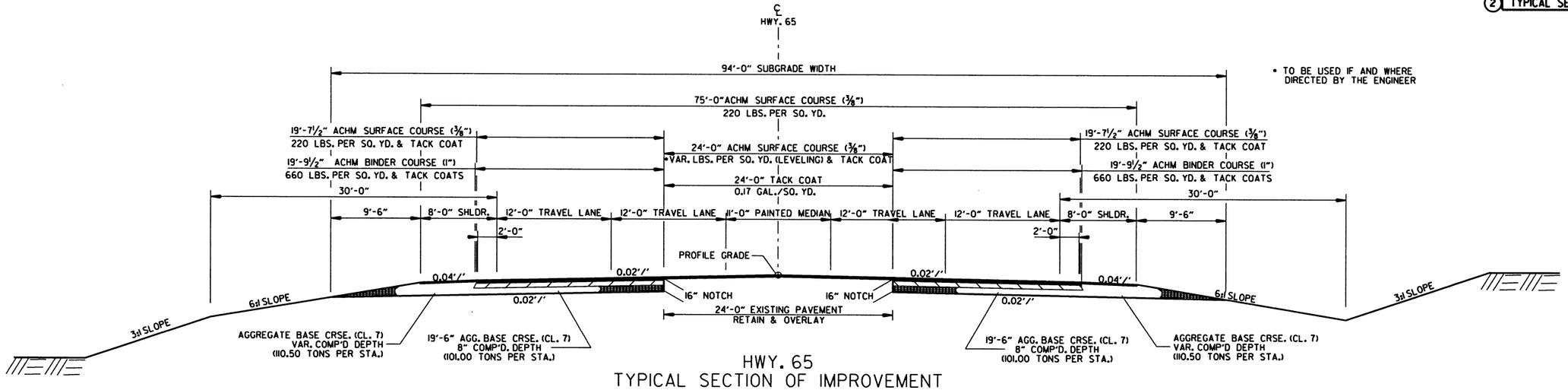
(2) TYPICAL SECTIONS OF IMPROVEMENT

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



HWY. 65
TYPICAL SECTION OF IMPROVEMENT
NOTCH AND WIDEN

STA. 726+00.00 TO STA. 827+00.00
STA. 829+00.00 TO STA. 839+54.85

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

NOTES:

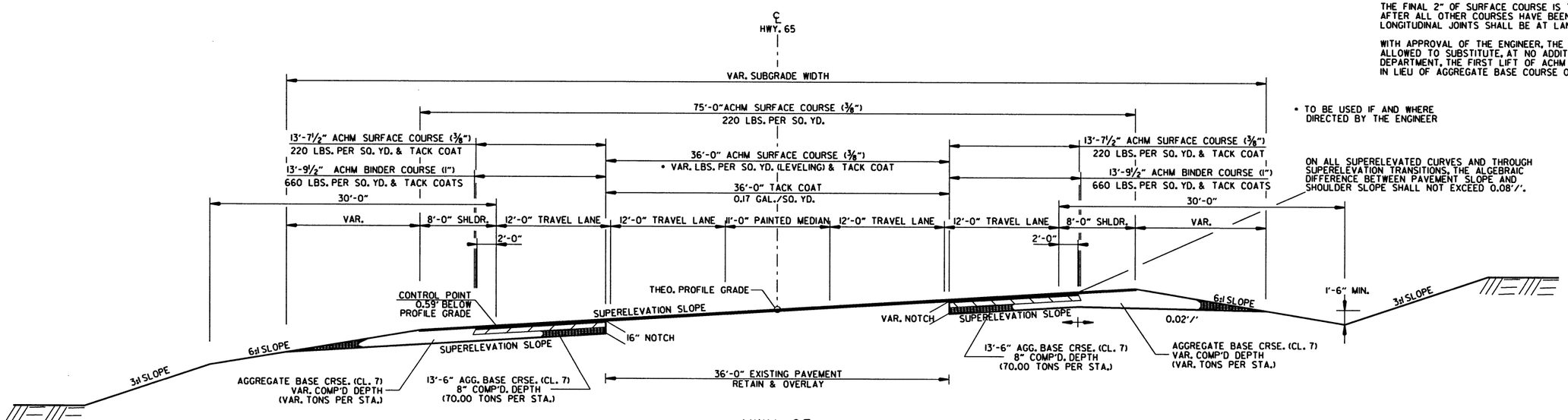
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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/OR LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY BUT PAYMENT WILL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS.

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

WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE, AT NO ADDITIONAL COST TO THE DEPARTMENT, THE FIRST LIFT OF ACHM SURFACE COURSE (1/2") IN LIEU OF AGGREGATE BASE COURSE ON THE SHOULDERS.



HWY. 65
TYPICAL SECTION OF IMPROVEMENT
NOTCH AND WIDEN - SUPERELEVATION

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

ON ALL SUPERELEVATED CURVES AND THROUGH SUPERELEVATION TRANSITIONS, THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 0.08'/'.

11/9/2018

RCA0801.DGN

TYPICAL SECTIONS OF IMPROVEMENT

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				JOB NO.		CA0801	6	605

(2) TYPICAL SECTIONS OF IMPROVEMENT

STATE OF ARKANSAS
LICENSED
PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

NOTES:

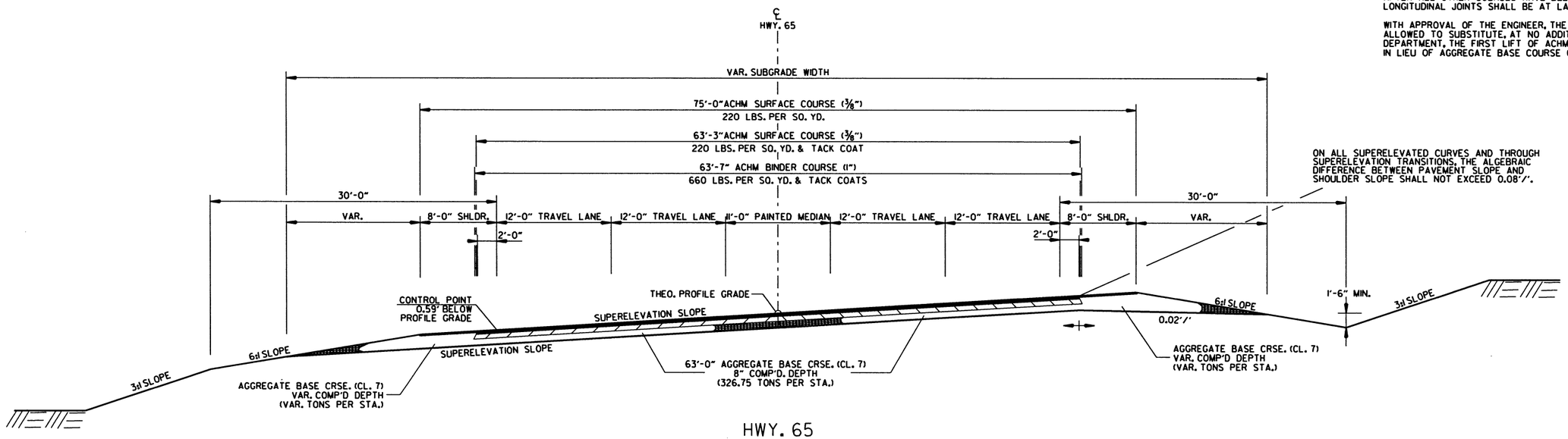
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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.

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

WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE, AT NO ADDITIONAL COST TO THE DEPARTMENT, THE FIRST LIFT OF ACHM SURFACE COURSE (½") IN LIEU OF AGGREGATE BASE COURSE ON THE SHOULDERS.

ON ALL SUPERELEVATED CURVES AND THROUGH SUPERELEVATION TRANSITIONS, THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 0.08'/'.



HWY. 65
TYPICAL SECTION OF IMPROVEMENT
FULL DEPTH - SUPERELEVATION

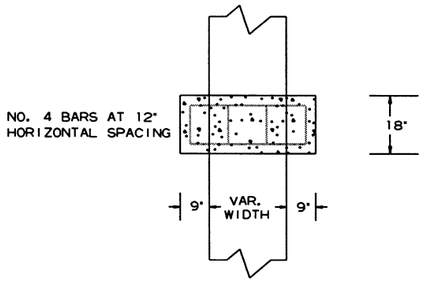
11/9/2018

RCA0801.DGN

TYPICAL SECTIONS OF IMPROVEMENT

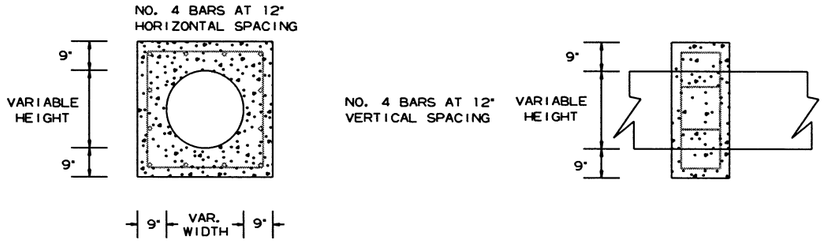
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	7	605

(2) SPECIAL DETAILS



TOP VIEW

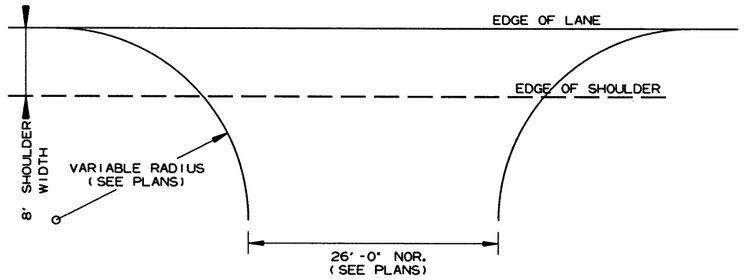
MIN 3" COVER



FRONT VIEW

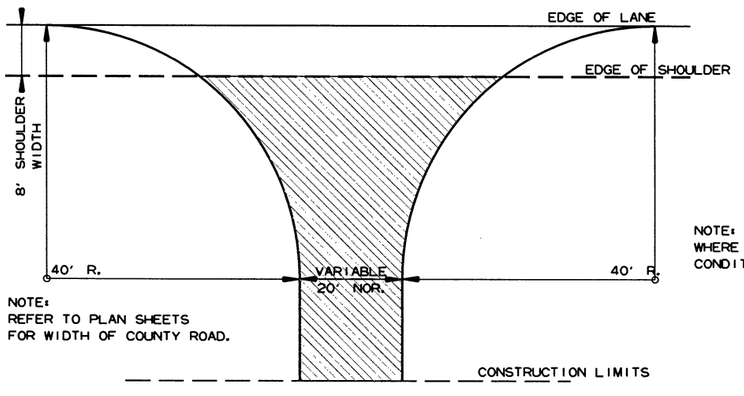
SIDE VIEW

PIPE EXTENSION REINFORCED CONCRETE COLLAR DETAIL



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

DETAIL OF STATE HIGHWAYS

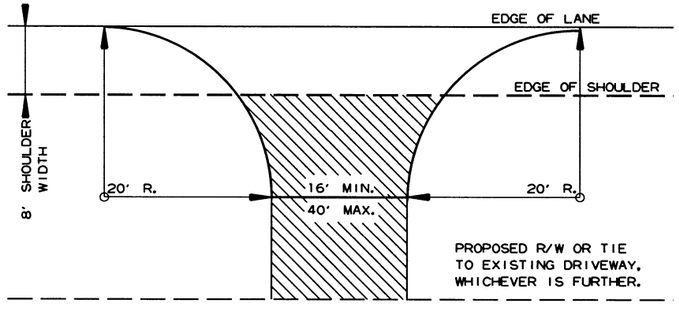


NOTE:
REFER TO PLAN SHEETS FOR WIDTH OF COUNTY ROAD.

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

ACHM SURFACE COURSE (3/8") (220 LBS. PER SQ. YD.) AND AGGREGATE BASE COURSE (CLASS 7) 7" COMP. DEPTH

DETAIL FOR COUNTY ROAD TURNOUTS OPEN SHOULDER SECTION



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

ACHM SURFACE COURSE (3/8") (220 LBS. PER SQ. YD.) AND AGGREGATE BASE COURSE (CLASS 7) 7" COMP. DEPTH IF ASPHALT OR GRAVEL DRIVE EXISTING; OR 6" CONCRETE IF CONCRETE DRIVE EXISTING.

DETAIL FOR DRIVEWAY TURNOUTS OPEN SHOULDER SECTION (ARTERIALS)

11/9/2018

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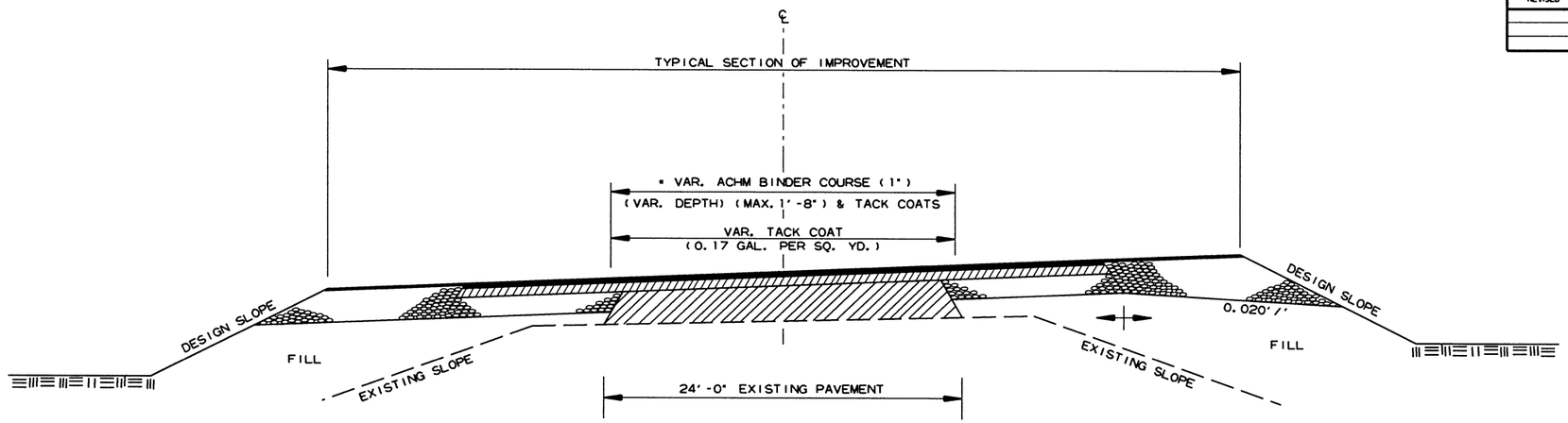
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	8	605

(2) SPECIAL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



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

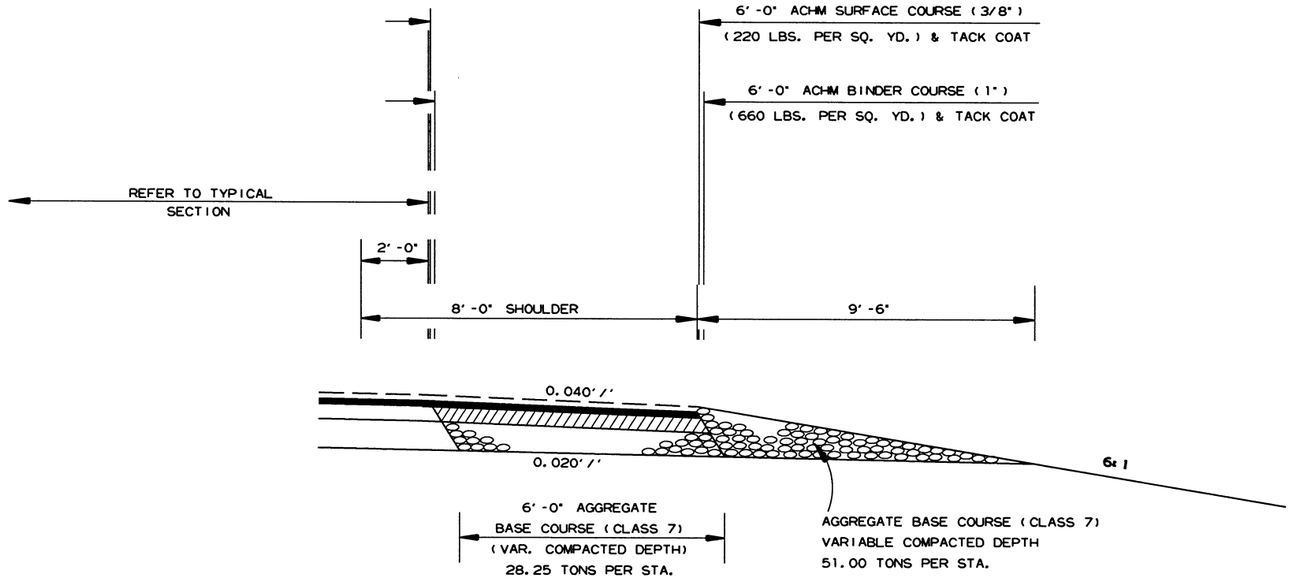
METHOD OF RAISING GRADE

NOTES:

(1) THIS DETAIL TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

(2) QUANTITIES FOR METHOD OF GRADE RAISE USING ASPHALT WERE CALCULATED ON THIS PROJECT AT LOCATIONS WHERE THE DISTANCE BETWEEN THE EXISTING ASPHALT ROADWAY AND THE PROPOSED SUBGRADE WAS ONE FOOT OR LESS.

(3) IN LOCATIONS WHERE THE DISTANCE BETWEEN THE PROPOSED SUBGRADE AND THE EXISTING ASPHALT ROADWAY IS MORE THAN ONE FOOT, SCARIFICATION OF THE EXISTING ASPHALT ROADWAY WILL BE REQUIRED AS STATED IN SECTION 210, SUBSECTION 210.09, OF THE STANDARD SPECIFICATIONS.



FULL DEPTH SHOULDER FOR MAINTENANCE OF TRAFFIC

STA. 608+68.45 TO STA. 620+76.00 (RT.)
STA. 630+09.83 TO STA. 644+20.19 (LT.)

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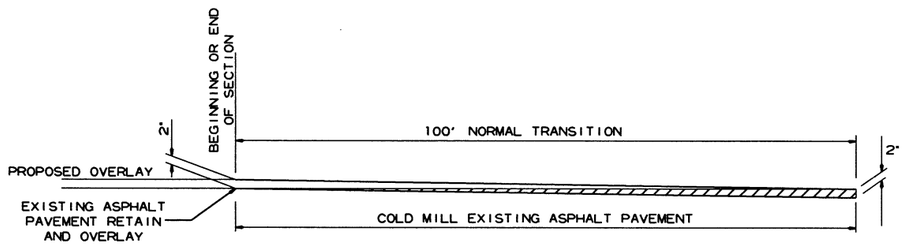
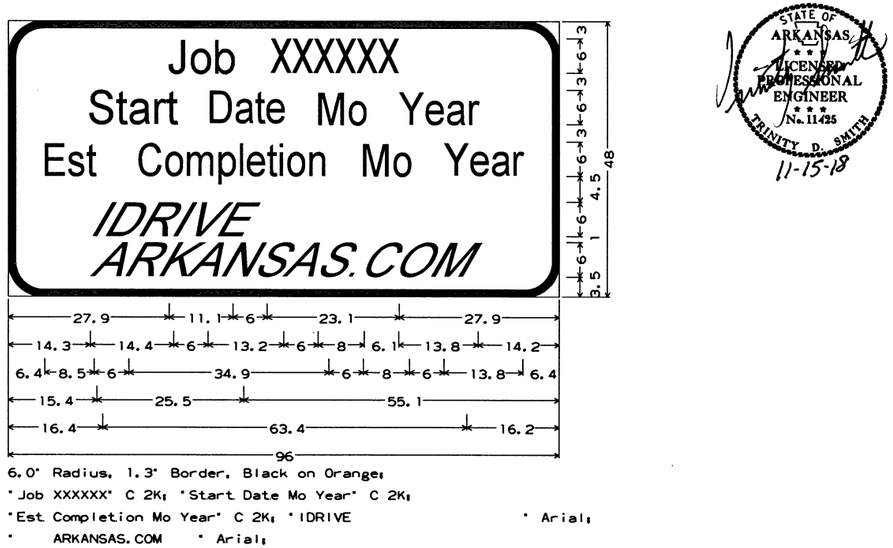
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	9	605

(2) SPECIAL DETAILS



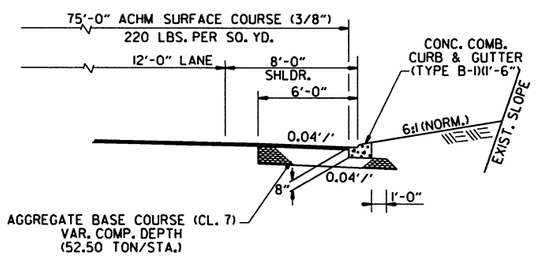
DETAIL FOR TRANSITIONS



6.0" Radius, 1.3" Border, Black on Orange;
"Job XXXXXX" C 2K; "Start Date Mo Year" C 2K;
"Est Completion Mo Year" C 2K; "IDRIVE " Arial;
" ARKANSAS.COM " Arial;

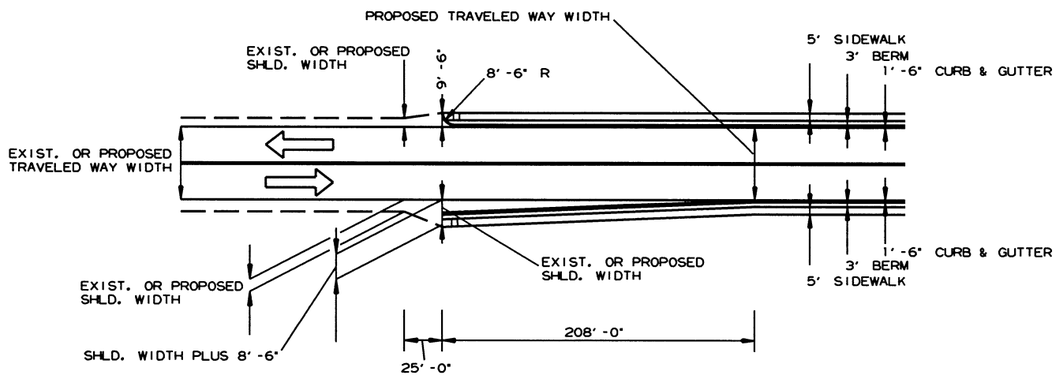
CONSTRUCTION PROJECT INFORMATION SIGN

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



DETAIL FOR CONCRETE CURB AND GUTTER

STA. 509+25 TO STA. 512+15 (RT.)
STA. 509+50 TO STA. 511+80 (LT.)
STA. 514+65 TO STA. 517+05 (RT.)
STA. 518+60 TO STA. 521+00 (RT.)
STA. 659+50 TO STA. 666+00 (LT.)
STA. 751+14 TO STA. 753+41 (LT.)
STA. 763+95 TO STA. 766+75 (LT.)



TRANSITION FROM OPEN SHOULDER TO CURB & GUTTER SECTION

11/9/2018

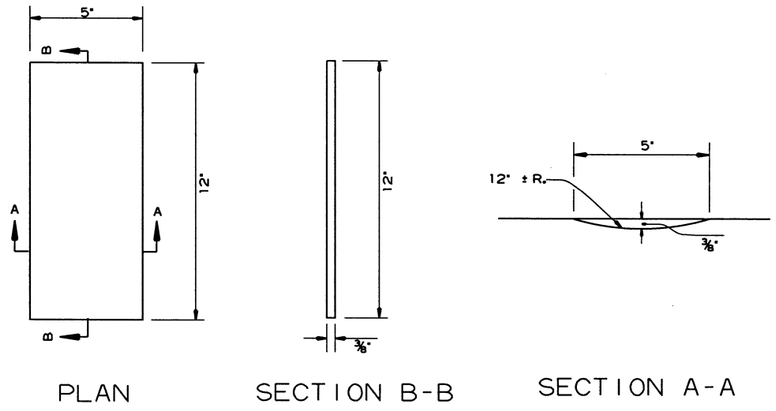
RCA0801.DGN

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	10	605

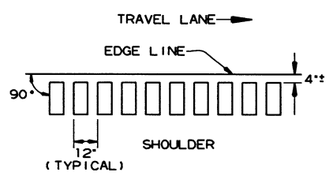
(2) SPECIAL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

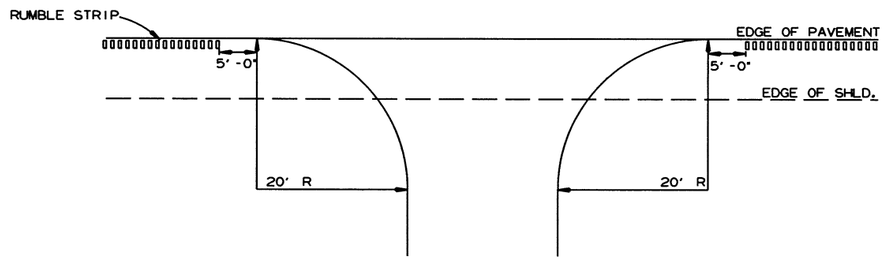


PLAN SECTION B-B SECTION A-A

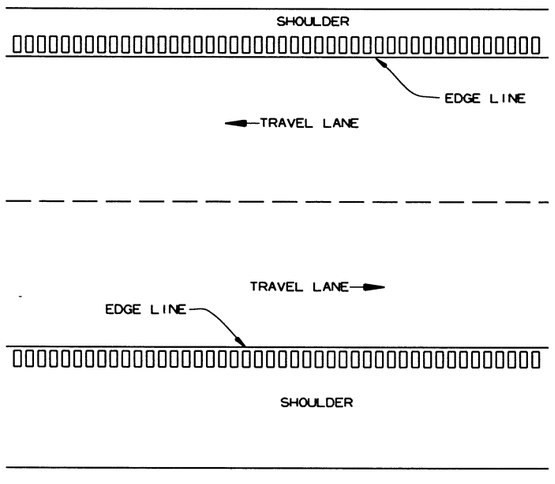
DETAILS OF RUMBLE STRIPS



LOCATION PLAN OF RUMBLE STRIPS
LEFT OR RIGHT SHOULDER



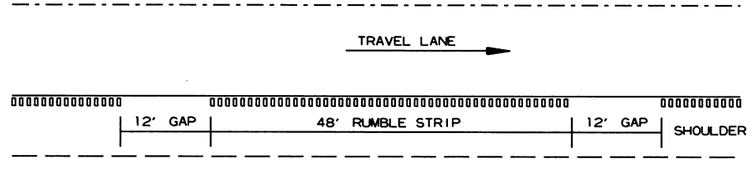
DETAIL FOR RUMBLE STRIP GAP
AT DRIVEWAY TURNOUTS



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

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SPECIAL DETAILS

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(2) SPECIAL DETAILS

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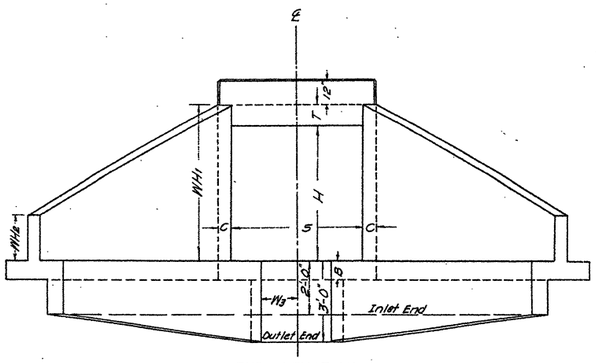
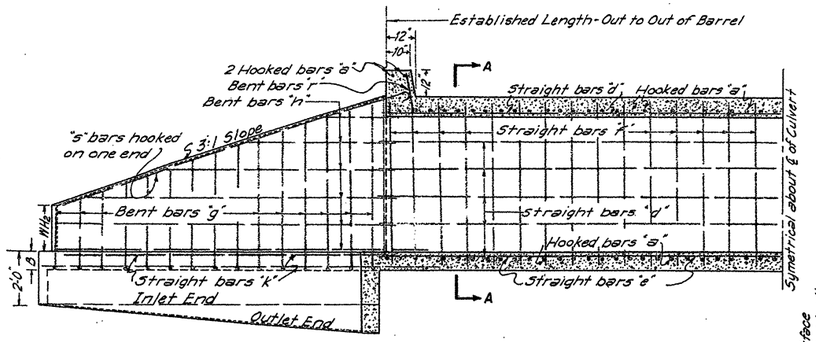
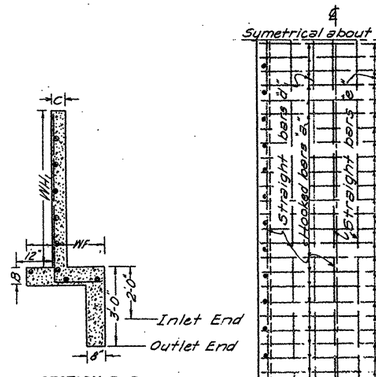


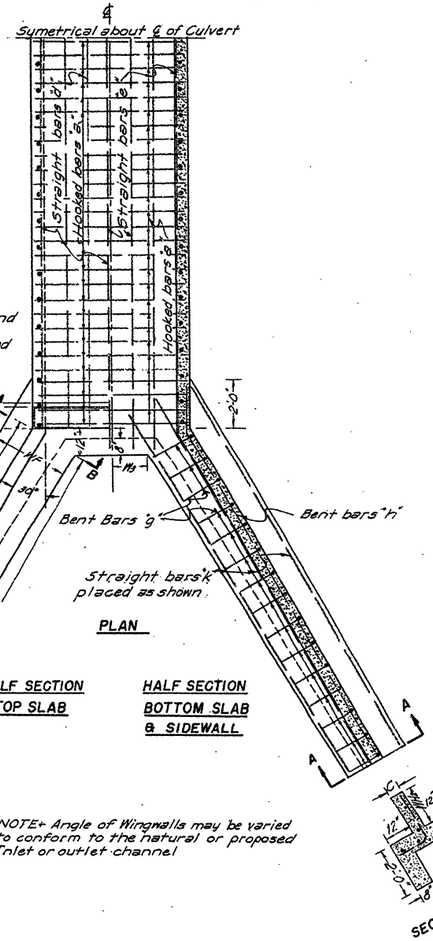
END ELEVATION



LONGITUDINAL SECTION



SECTION B-B

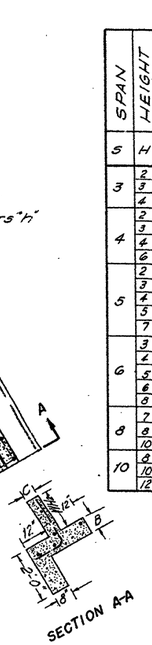


PLAN

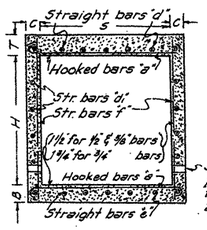
HALF SECTION TOP SLAB

HALF SECTION BOTTOM SLAB & SIDEWALL

NOTE- Angle of Wingwalls may be varied to conform to the natural or proposed Inlet or outlet channel



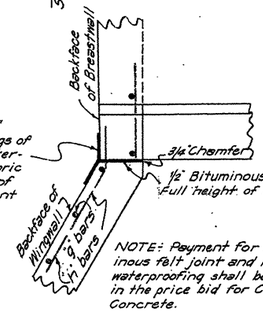
SECTION A-A



3" diameter drains to be placed in both walls one foot above floor level at 20' centers.

SECTION A-A

A membrane Waterproofing 12" wide, consisting of three moppings of waterproofing asphalt and two alternate layers of treated cotton fabric shall be applied to the backface of abutment to cover expansion joint



NOTE:- Payment for the bituminous felt joint and membrane waterproofing shall be included in the price bid for Class A Concrete.

DETAIL OF EXPANSION JOINT FOR CULVERTS WHEN HEIGHT "H" = 8' OR MORE
SCALE ¾"-1'-0"

DIMENSIONS AND QUANTITIES

SPAN	HEIGHT	AREA OF OPENING SQ. FT	MINIMUM DEPTH OF COVER	THICKNESS OF TOP SLAB	THICKNESS OF FLOOR SLAB	WINGWALL HEIGHTS AT HEADWALL	WINGWALL HEIGHTS AT WING END	MAXIMUM WIDTH	REINFORCING COVER DIST. FROM FACE OF WINGWALL TO END OF WING	LENGTH OF WINGWALLS	INSIDE LENGTH OF WING FOOTING	FOOTING DIMENSION FROM ℄ OF BOX	CONCRETE CU. YD. HEADWALLS, WING WALLS & FOOTINGS	CONCRETE CU. YD. PER LINEAR FT. OF BARREL	STEEL LB. HEADWALLS, WING WALLS & FOOTINGS	STEEL LB. PER LINEAR FT. OF BARREL	STEEL LB. ADD'L STEEL FOR LAPS
S	H	A	D	T	C	B	WH_1	WH_2	WF	E	W_1	W_2	W_3					
3	2	6			6"		2'-9"	1'-0"	2'-6"	5'-3"	6'-0⅜	5'-9⅛	0'-10⅛	3.65	0.253	236	25.26	18.4
	3	9			6"		3'-9"	1'-0"	2'-6"	6'-3"	9'-6⅛	9'-2⅜	0'-10⅛	5.86	0.290	352	27.87	15.6
	4	12	3'-6"	8"	6"	6½	4'-9"	1'-4"	2'-6"	10'-3"	11'-10"	11'-6⅛	0'-10⅛	7.71	0.327	461	30.67	17.8
4	2	8			6"		2'-9"	1'-0"	2'-6"	5'-3"	6'-0⅜	5'-9⅛	1'-1⅛	4.02	0.329	240	31.22	15.6
	3	12			6"		3'-9"	1'-0"	2'-6"	6'-3"	9'-6⅛	9'-2⅜	1'-1⅛	6.30	0.366	363	33.93	17.8
	4	16	3'-6"	9"	6"	7½	4'-9"	1'-4"	2'-6"	10'-3"	11'-10"	11'-6⅛	1'-1⅛	8.20	0.403	472	36.63	20.0
	6	24			7"		6'-2"	2'-0"	3'-1½	14'-3"	16'-5⅛	16'-0⅝	0'-5"	13.57	0.532	777	42.58	24.5
5	2	10			6"		2'-10"	1'-0"	2'-6"	5'-6"	6'-4⅛	6'-0⅜	1'-0⅛	4.56	0.388	289	40.34	17.8
	3	15			6"		3'-10"	1'-0"	2'-6"	8'-6"	9'-9⅛	9'-6⅛	1'-10⅛	6.62	0.435	407	43.04	20.0
	4	20	3'-6"	9½"	6"	8"	4'-10"	1'-4"	2'-6"	10'-6"	12'-1⅛	11'-10"	1'-10⅛	8.78	0.472	513	46.75	22.3
	5	25			6"		6'-10"	1'-8"	2'-11"	12'-6"	14'-5⅛	14'-0⅝	1'-1⅛	11.20	0.508	650	48.65	24.5
	7	35			7½		7'-10"	2'-4"	3'-1"	16'-6"	18'-0⅝	17'-7⅛	0'-4"	15.17	0.662	1231	54.64	28.9
6	3	18	3'-6"	9"	6"	9½	3'-10"	1'-0"	2'-6"	8'-6"	9'-9⅛	9'-6⅛	2'-1⅛	7.28	0.532	403	50.58	22.3
	4	24			6"		4'-10"	1'-4"	2'-6"	10'-6"	12'-1⅛	11'-10"	2'-1⅛	9.28	0.569	527	53.28	24.5
	5	30			6"		5'-10"	1'-8"	2'-11"	12'-6"	14'-5⅛	14'-0⅝	1'-10⅛	11.80	0.606	664	55.99	26.7
	6	36	10½"	9"	7"		6'-10"	2'-0"	3'-5"	14'-6"	16'-8"	17'-0"	1'-1⅛	15.76	0.691	825	59.39	28.9
	8	48			8"		8'-10"	2'-8"	4'-5"	18'-6"	21'-4⅛	22'-3"	0'-3⅛	24.93	0.836	1500	72.76	33.4
8	7	56			7½		6'-0"	2'-4"	4'-0"	17'-0"	19'-1⅛	20'-3"	1'-2⅛	29.58	0.966	1337	90.21	40.1
	8	64	3'-6"	11½"	8"	11"	7'-0"	2'-8"	4'-6"	19'-0"	21'-1⅛	22'-10⅛	1'-2⅛	27.97	1.043	1592	100.81	42.3
	10	80			10"		11'-0"	3'-4"	5'-6"	23'-0"	26'-6⅛	28'-1⅛	0'-2⅛	43.93	1.289	2449	109.87	46.0
10	9	90			8"		9'-0"	2'-8"	4'-6"	19'-0"	21'-1⅛	22'-10⅛	2'-2⅛	29.64	1.270	1628	130.58	44.8
	10	100	3'-6"	12½"	10"	12½	11'-0"	3'-4"	5'-6"	23'-0"	26'-6⅛	28'-1⅛	1'-2⅛	46.15	1.517	2490	139.74	48.0
	12	120			12"		13'-0"	4'-0"	6'-6"	27'-0"	31'-2"	33'-1⅛	0'-2⅛	68.41	1.815	3817	158.53	55.4

LAP NOTE:- In computing quantities of Steel from the above table, add one lap for culverts up to 50'-0" in length, and one lap for each additional 25'-0" in length.
SPECIFICATION:- Arkansas Standard Road and Bridge Specifications
*REINFORCING STEEL:- To be deformed bars of structural or intermediate grade.
CHAMFER:- All exposed corners to have ¾" Chamfer
CONCRETE:- All concrete to be Class "A"
*Reinforcing Steel to be deformed bars of intermediate or rail grade on all Interstate Highways.

STEEL SCHEDULE
For Culverts 30'-0" In Length - Out to Out of Barrel

SPAN	HEIGHT	"a" bars (3 for 1⅛" & ¾" bars, 6 for ⅝" bars; 2 in each headwall between Top and Bottom Slab of Barrel) SIZE	SPACING	NUMBER	LENGTH	X'	"d" bars: "d1" bars: STRAIGHT In Bottom of Top Slab SIZE	SPACING	NUMBER	LENGTH	"d" bars: "d1" bars: STRAIGHT In Sidewalls SIZE	SPACING	NUMBER	LENGTH	"e" bars In Top of Bottom Slab SIZE	SPACING	NUMBER	LENGTH	"f" bars STRAIGHT Vertical bars in Sidewalls SIZE	SPACING	NUMBER	LENGTH	"g" bars Vertical bars in back face of Wingwall, bent into bottom of footing SIZE	SPACING	NUMBER	LENGTH	X Min.	X Max.	Y Min.	Y Max.	"h" bars ½" bars @ 12" Ctrs Horizontal bars in Wingwalls NUMBER	LENGTH	Z Min.	Z Max.	"k" bars ½" bars STRAIGHT: in Wing Footings NUMBER	LENGTH	"r" bars ½" bars @ 12" Ctrs Dowels in Headwalls NUMBER	LENGTH	"s" bars ½" bars In top of each Wingwall NUMBER	LENGTH	Z
S	H	SIZE	SPACING	NUMBER	LENGTH	X'	SIZE	SPACING	NUMBER	LENGTH	SIZE	SPACING	NUMBER	LENGTH	SIZE	SPACING	NUMBER	LENGTH	SIZE	SPACING	NUMBER	LENGTH	SIZE	SPACING	NUMBER	LENGTH	X		Y		NUMBER	LENGTH	Z		NUMBER	LENGTH	NUMBER	LENGTH	NUMBER	LENGTH	Z
																											Min.	Max.	Min.	Max.											
3	2			136	4'-6"	3'-9"			5				2				5				62	2'-11½			28	3'-5"	1'-3"	1'-3"	1'-3½	3'-0½	12	6'-3⅜	2'-4"	3'-5⅜	12	7'-8"	10	3'-1"	4	7'-7⅛	7'-7⅛
	3	½"	5½"	136	4'-6"	3'-9"	½"	10"	5		½"	12"	4		½"	10"	5		½"	12"	62	3'-11⅞	½"	12"	40	3'-11"	1'-3"	1'-3"	1'-4⅛	3'-1⅛	16	6'-4"	2'-4"	3'-5⅜	12	11'-1½	10	3'-1"	4	11'-2¼	10'-6¾
	4			136	4'-6"	3'-9"			5				5				5				62	4'-11⅞			48	4'-7"	1'-3"	1'-3"	1'-9"	4'-1"	20	9'-9⅜	2'-4"	1'-7"	12	13'-5¼	10	3'-1"	4	13'-7⅜	13'-1⅛
4	2			148	5'-6"	4'-3"			6				2				6				62	3'-1½			28	3'-6"	1'-3"	1'-3"	1'-4⅛	3'-1⅛	12	6'-3⅜	2'-4"	3'-5⅜	12	7'-8"	12	3'-2"	4	7'-7⅛	7'-1⅜
	3			148	5'-6"	4'-3"			6				4				6				62	4'-1⅜			40	4'-0"	1'-3"	1'-3"	1'-5½	4'-0½	16	8'-4"	2'-4"	4'-3⅛	12	11'-1⅛	12	3'-2"	4	11'-2¼	10'-6¾
	4	½"	5"	148	5'-6"	4'-3"	½"	10"	6		½"	12"	4		½"	10"	6		½"	12"	62	5'-1⅝	½"	12"	48	4'-8"	1'-3"	1'-3"	1'-10"	5'-0"	20	9'-9⅜	2'-4"	11'-7"	12	13'-5¼	12	3'-2"	4	13'-7⅜	13'-1⅛
	6			148	5'-6"	4'-11"			6				6				6				62	7'-1⅝			68	6'-5½	1'-4"	2'-1"	2'-5½	7'-0⅛	28	12'-1"	2'-4"	16'-2⅛	12	18'-0⅜	12	3'-2"	4	18'-4⅜	17'-10⅜
5	2			116	6'-6"	5'-9"			7				2				7				62	3'-2½			28	3'-7"	1'-3"	1'-3"	1'-6"	3'-2"	12	6'-7⅛	2'-7⅛	6'-1⅛	12	7'-1⅛	14	3'-2⅛	4	7'-10⅜	7'-4⅝
	3			116	6'-6"	5'-9"			7				4				7				62	4'-2⅛			40	4'-1"	1'-3"	1'-3"	1'-6⅛	4'-1⅛	16	8'-7⅛	2'-7⅛	9'-6⅜	12	11'-5"	14	3'-2⅛	4	11'-6"	11'-0"
	4	⅝"	6½"	116	6'-6"	5'-9"	½"	10"	7	29'-9" for 30'-0" Length	½"	12"	6	29'-9" for 30'-0" Length	½"	10"	7	31'-9" for 30'-0" Length	½"	12"	62	5'-2⅛	⅝"	12"	52	4'-9"	1'-3"	1'-3"	1'-3"	5'-3"	20	10'-0⅜	2'-7⅛	11'-10⅛	12	13'-8¾	14	3'-2⅛	4	13'-10⅜	13'-4⅝
	5			116	6'-6"	5'-9"			7				6				7				62	5'-1⅞			60	5'-1⅞	1'-3"	1'-8"	2'-2"	6'-2"	24	11'-7⅜	2'-7⅛	14'-2⅛	12	16'-10⅛	14	3'-2⅛	4	16'-3⅝	15'-9⅛
	7			116	6'-9"	6'-0"			7				12				7				62	6'-2½	⅝"	12"	80	7'-6½	1'-4⅛	2'-8"	2'-8"	8'-3"	32	14'-8⅜	2'-7⅛	18'-9⅝	12	20'-9"	14	3'-2⅛	4	21'-1⅛	20'-7⅛
6	3			124	7'-6"	6'-9"			8				4				8				62	4'-4⅞			40	4'-2"	1'-3"	1'-3"	1'-7⅞	4'-2⅜	16	8'-7⅛	2'-7⅛	9'-6⅝	12	11'-5"	16	3'-3⅛	4	11'-6"	11'-0"
	4			124	7'-6"	6'-9"			8				6				8				62	5'-4⅞			52	4'-10"	1'-3"	1'-3"	1'-10"	5'-4"	20	10'-0⅜	2'-7⅛	11'-10⅛	12	13'-8¾	16	3'-3⅛	4	13'-10⅜	13'-4⅝
	5	⅝"	6"	124	7'-6"	6'-9"	½"	10"	8		½"	12"	6		½"	10"	8		½"	12"	62	6'-4⅞			60	5'-10⅛	1'-3"	1'-8"	2'-3"	6'-3"	24	11'-7⅜	2'-7⅛	14'-2⅛	12	16'-10⅛	18	3'-3⅛	4	16'-3⅝	15'-9⅛
	6			124	7'-9"	6'-11"			8				10				8				62	7'-4⅞			80	6'-9"	1'-4"	2'-2"	2'-7½	7'-2½	28	13'-2⅛	2'-7⅛	16'-6"	12	19'-11¼	16	3'-3⅛	4	19'-3⅝	18'-9⅛
	8			124	7'-10"	7'-1"			8				14				8				62	9'-4⅞	⅝"	12"	88	8'-6½	1'-5"	3'-2"	3'-2⅛	9'-3⅜	36	16'-2⅜	2'-7⅛	21'-1⅝	12	22'-1⅛	16	3'-3⅛	4	23'-6"	23'-0"
8	7			108	10'-3½	8'-11½			12				12				12				62	6'-1⅞			60	7'-10¾	1'-4⅛	2'-8"	3'-1"	8'-1"	32	15'-3⅜	3'-2⅛	19'-4⅞	12	20'-2¾	20	3'-4⅛	4	21'-2⅜	21'-2⅜
	8	¾"	7"	108	10'-6⅞	9'-0⅛	½"	9"	12		½"	12"	14		½"	9"	12		⅝"	12"	62	5'-7⅛	⅝"	12"	88	8'-10"	1'-5"	3'-3"	3'-3⅝	9'-6⅝	36	16'-9⅜	3'-2⅛	21'-9⅛	12	23'-6½	20	3'-4⅛	4	24'-1⅞	23'-7⅛
	10			108	10'-10⅞	9'-4⅞			12				18				12				62	11'-7⅛			120	10'-9"	1'-7"	4'-3"	4'-1"	11'-7"	44	19'-10⅜	3'-2⅛	29'-3¾	12	28'-2"	20	3'-4⅛	4	28'-1"	28'-5"
10	8			136	12'-6⅞	11'-0⅛			13				18				14				62	9'-10"			88	8'-11⅛	1'-5"	3'-3"	3'-7⅛	9'-7⅛	36	16'-9⅜	3'-2⅛	21'-0⅜	12	23'-6⅜	24	3'-5⅛	4	24'-1⅜	23'-7⅛
	10	¾"	5½"	136	12'-10⅜	11'-4⅛	½"	10"	13		½"	12"	18		½"	10"	13		⅝"	12"	62	11'-10"	⅝"	12"	120	10'-10⅞	1'-7"	4'-3"	4'-2⅛	11'-4⅛	44	19'-10⅜	3'-2⅛	29'-3¾	12	28'-2"	24	3'-5⅛	4	28'-1"	28'-5"
	12			136	13'-2½	11'-8⅝			13				22				13		⅝"	9"	82	13'-10"			180	12'-9½"	1'-9"	5'-3"	4'-9¾	13'-9¾	52	23'-0"	3'-2⅛	30'-1⅛	12	32'-9½	28	3'-5⅛	4	33'-0½	33'-2½

NOTE:- Lengths given above do not include Lap

REVISIONS	
12-19-56	Redrawn
Nov, 1957	Military Loading

AASHO DESIGN LIVE LOADING H20-S16
UNIT STRESSES

Concrete (n-15) - 840 Lbs per Sq. In.
Reinf. Steel (Str. Gr) - 18,000 Lbs per Sq. In.

SPECIAL MILITARY LOADING
Add'l Loading For Interstate Highways
2-24,000 Lb. Axles @ 4'-0" Ctrs.
Concrete (n-15) - 840 Lbs. per Sq. In.
Reinf. Steel (Int. or Rail) - 20000 Lbs. per Sq. In.

11/13/2018
RCA0801.DGN

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	12	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63

PC486+63.4

C.L. HWY. 65

PT493+92.53

PI490+43.65

PI500+37.59

PROPOSED R/W

EXISTING R/W

N 12°12'57" E

490 495 500

OPEN STORAGE

GARY PACK LUMBER

PAVED

INDEPENDENT

E-5 = SAND BAG DITCH CHECKS
E-6 = ROCK DITCH CHECKS
E-7 = DROP INLET SILT FENCE
E-11 = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

+65.00 98.63
+00.00 115.00
+55.00 130.00
+39.00 105.00
+04.58 129.20
+45.00 115.00
50.00 45.00

E-11 .280 LIN.FT.
E-11 .865 LIN.FT.

505 510 515

PI505+21.73

PT509+21.19

N 32°04'24" W

+30.00 130.00
+55.00 135.00
+75.00 120.00
+42.96 120.00
+50.98 105.00
+35.00 75.00
+10.00 75.00
+15.00 95.00
+90.00 85.00
+75.00 90.00
+20.00 78.95
+10.00 95.00
+95.00 90.00
+42.73 80.99
+10.00 90.00

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	13	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

PROPOSED R/W
EXISTING R/W
N 32°04'24" W
N 16°36'53" E
C.L. HWY. 65
C.L. SKYHILL DRIVE
PC518+17.00
PT532+88.72
PC100+14.62
PI100+94.71
PT101+73.77
POB100+68.52
POE102+84.60
25' BUFFER
245 LIN.FT.
295 LIN.FT.
165 LIN.FT.
740 LIN.FT.
245 LIN.FT.
T.C.E.
PAVED SHOULDER
PAVED DITCH
GRAVEL DRIVE
CONCRETE DRIVE
POND
SHRUBS
PATIO
BALL WALL
CHURCH
CLINTON SEVENTH DAY ADVENTISTS
CONCRETE PUMP HOUSE
520
525
530
535
540
545

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	14	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-16

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

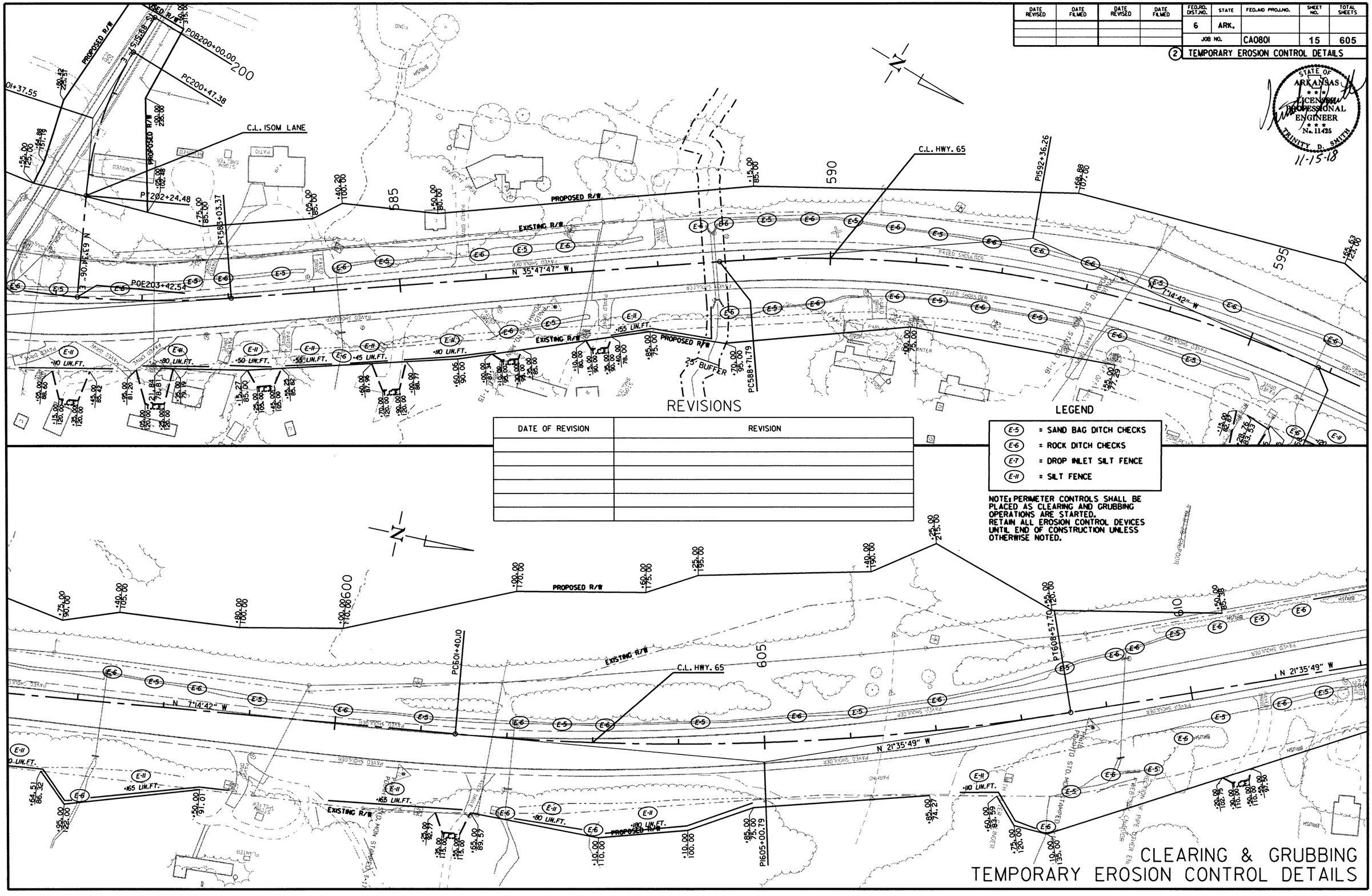
RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	15	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
TRINITY D. SMITH
LICENSED PROFESSIONAL ENGINEER
No. 11425
11-15-18



REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

11/9/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	16	605

2 TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

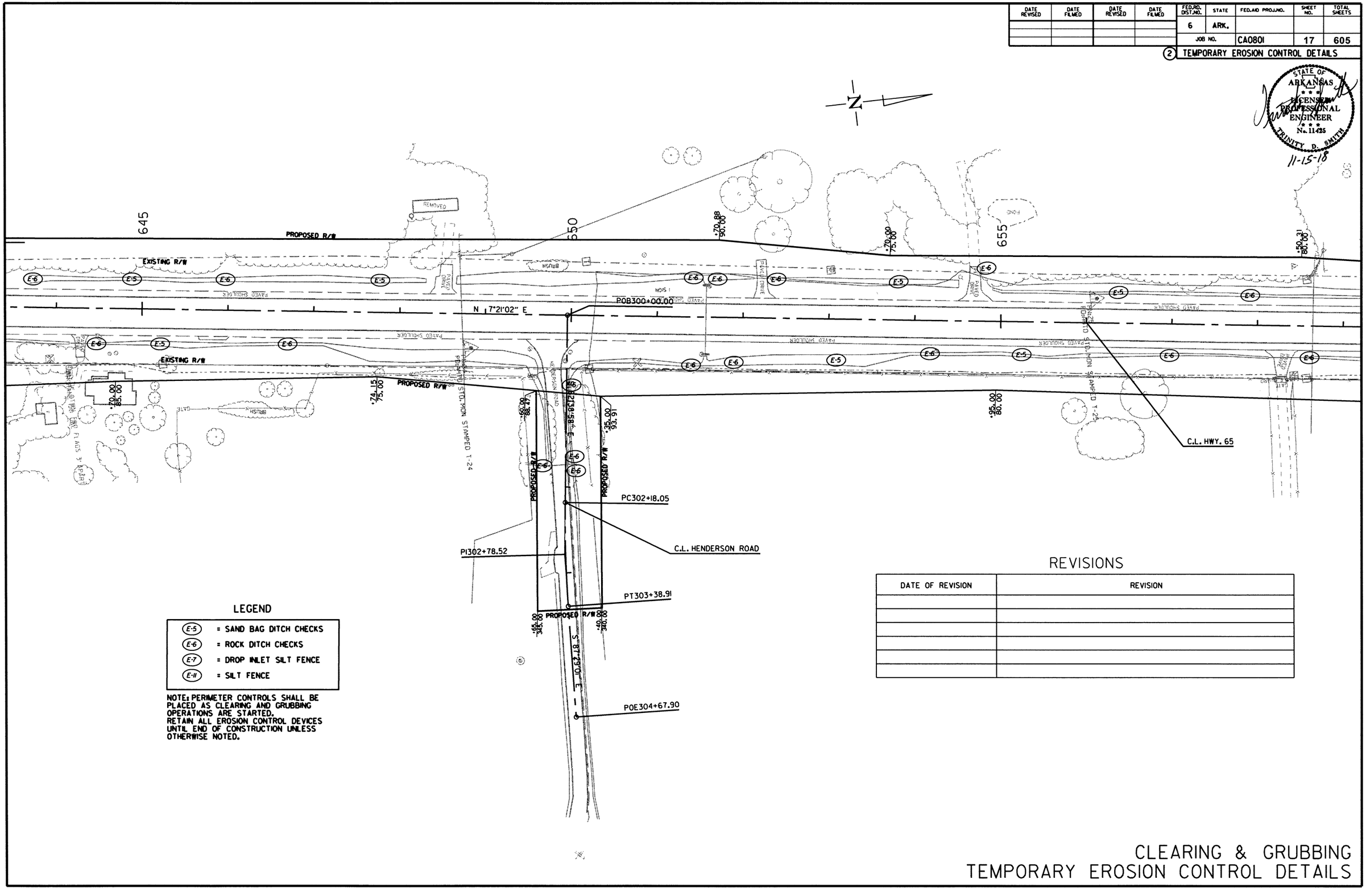
RCA0801.DGN

CLEARING & GRUBBING TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	17	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

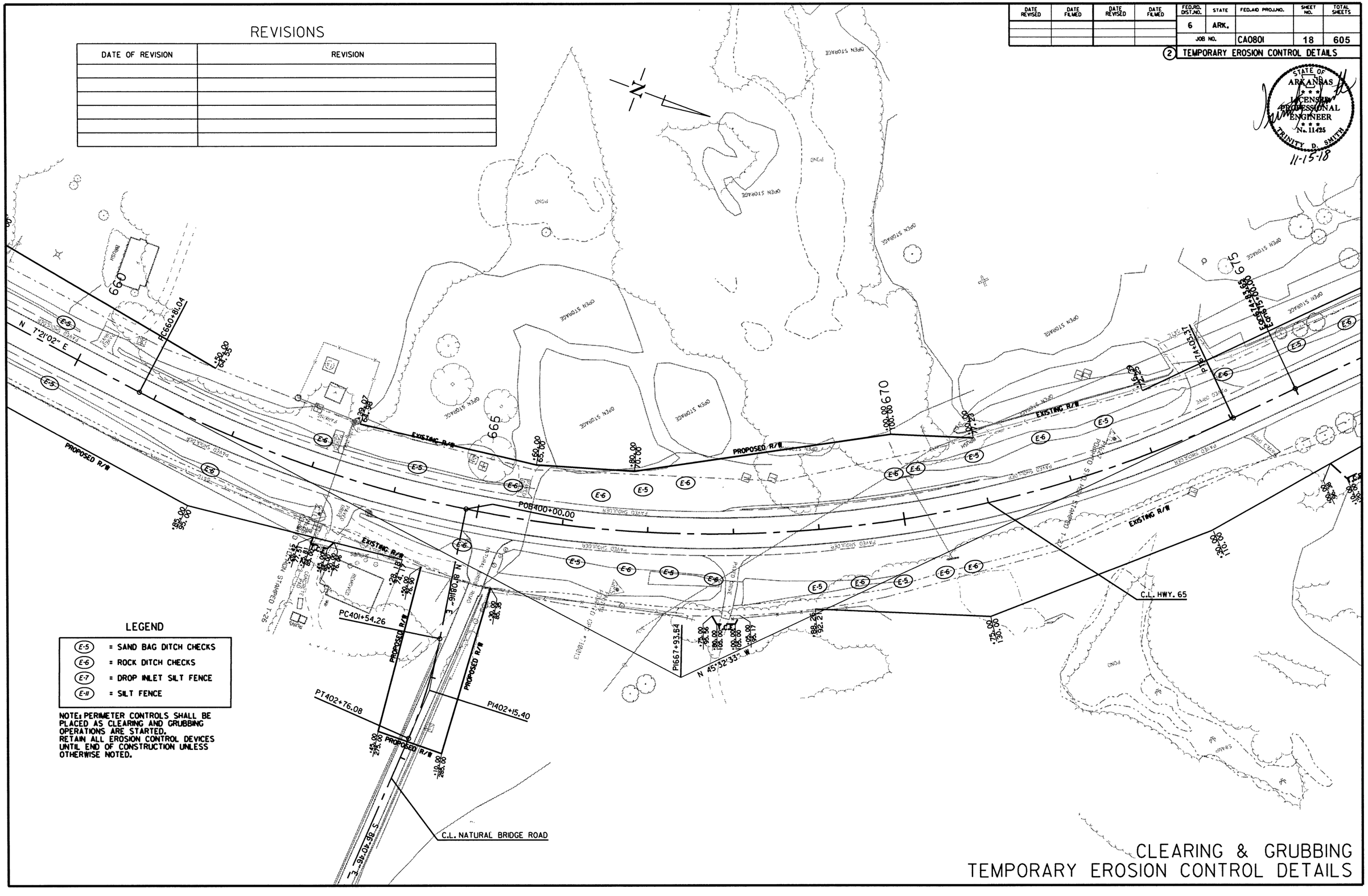
REVISIONS

DATE OF REVISION	REVISION

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	18	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
* * *
LICENSED PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

(E-5)	= SAND BAG DITCH CHECKS
(E-6)	= ROCK DITCH CHECKS
(E-7)	= DROP INLET SILT FENCE
(E-11)	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	19	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	20	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	21	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

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REVISIONS

DATE OF REVISION	REVISION

11/9/2018

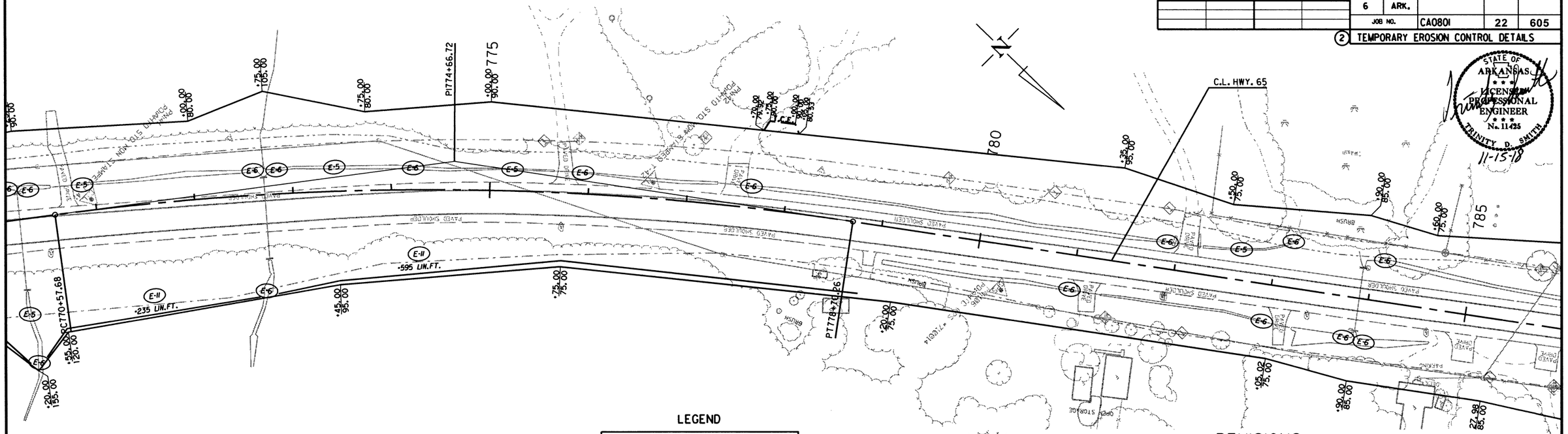
RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	22	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



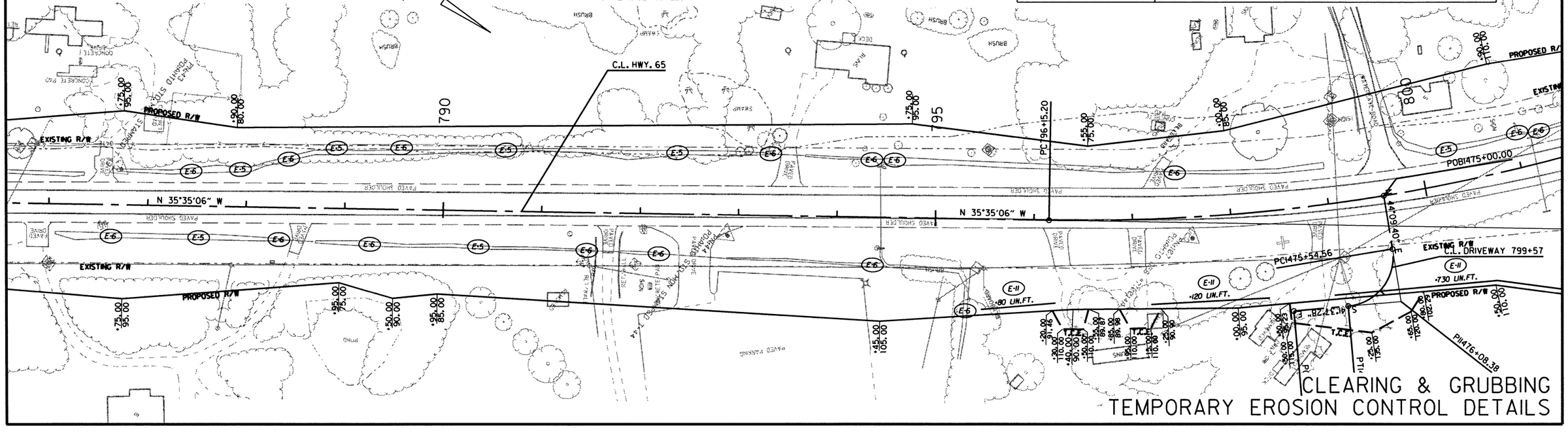
LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION



11/9/2018

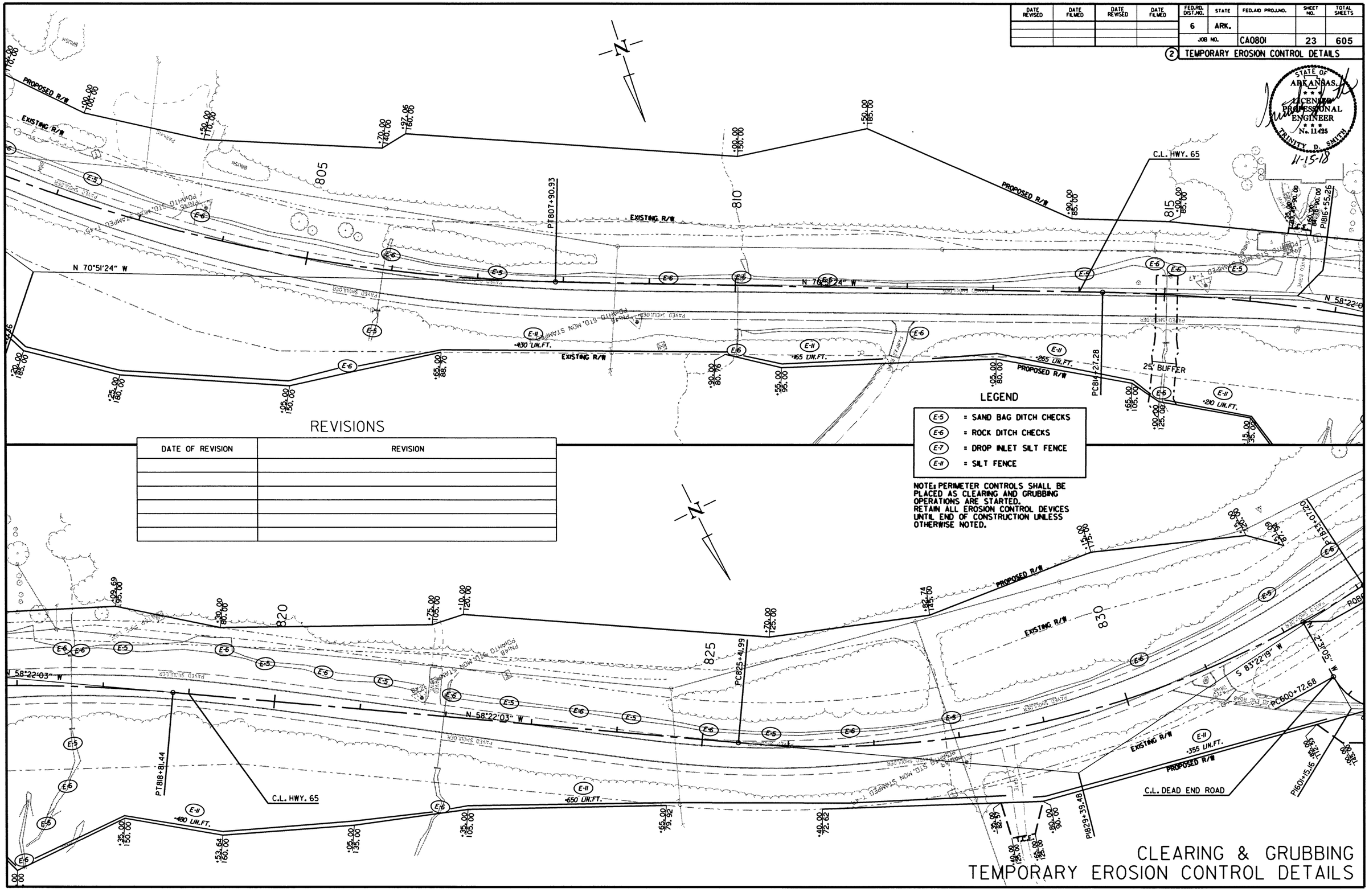
RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	23	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

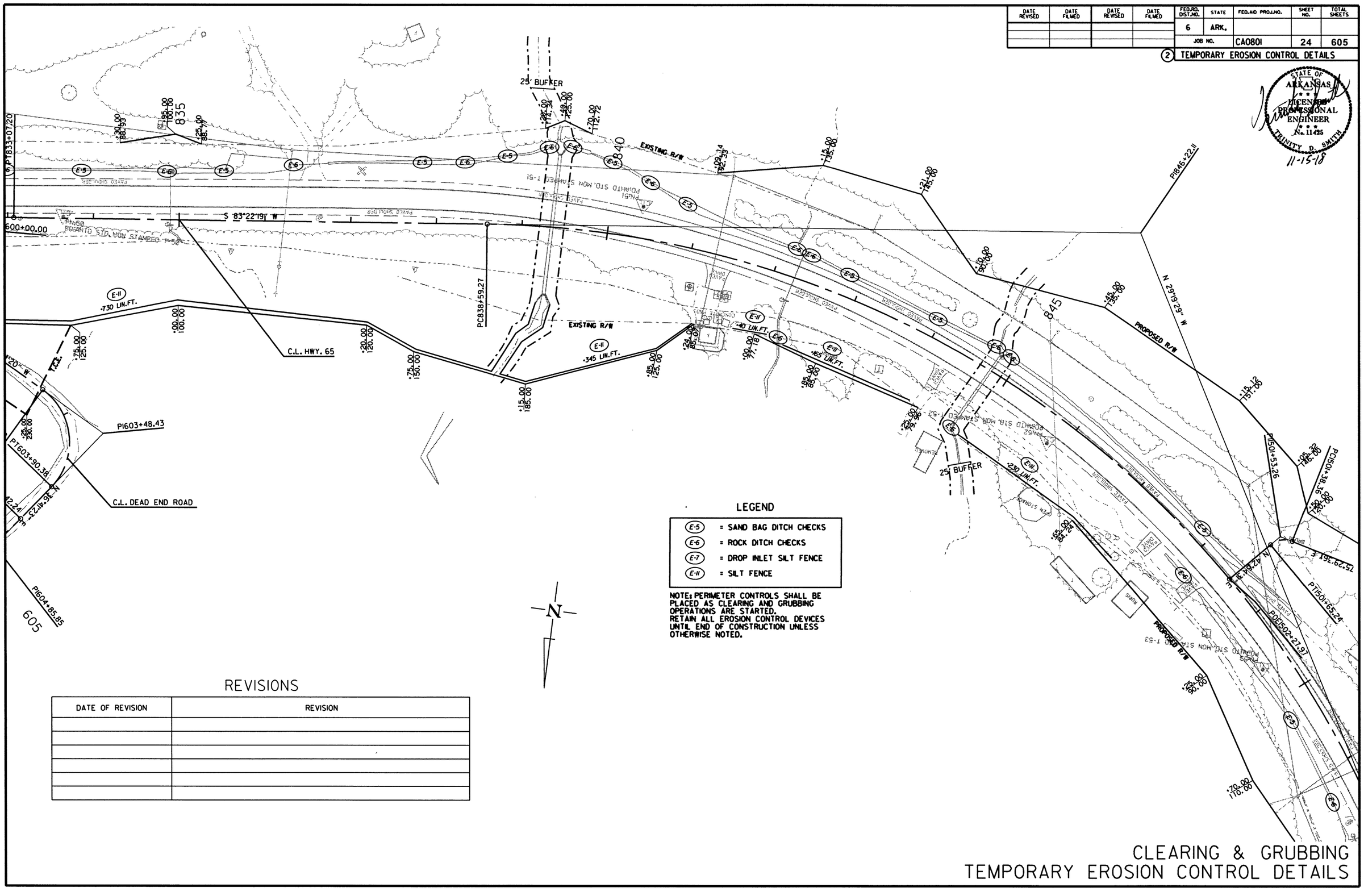
RCA0801.DGN

CLEARING & GRUBBING TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	24	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	25	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

C.L. HWY. 65
PROPOSED R/W
EXISTING R/W
C.L. DRIVEWAY 854+56
C.L. DRIVEWAY 876+75
PC1601+2
PI1601+48.63
PC1650+72.34
PI1651+06.62
PT1651+32.43
POE1652+40.48
PT1852+05.34
PC1859+05.26
PI1861+56.02
PT1864+03.44
POE1602+33.99
N 29°19'29" W
N 13°08'02" W
N 60°40'31" E
N 8°11'18" W
POBI1700+00.00
N 57°50'36" E
PC1701+78.46
PCI1700+24.44
PI1702+18.99
PTI1700+92.82
PI1700+65.19
PTI1702+46.58
POEI1703+07.15
N 32°09'21" W
N 58°50'39" E
PC1870+50.63
PI1873+70.61
PT1876+84.70
.130 LIN.FT.
.175 LIN.FT.
.1075 LIN.FT.

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

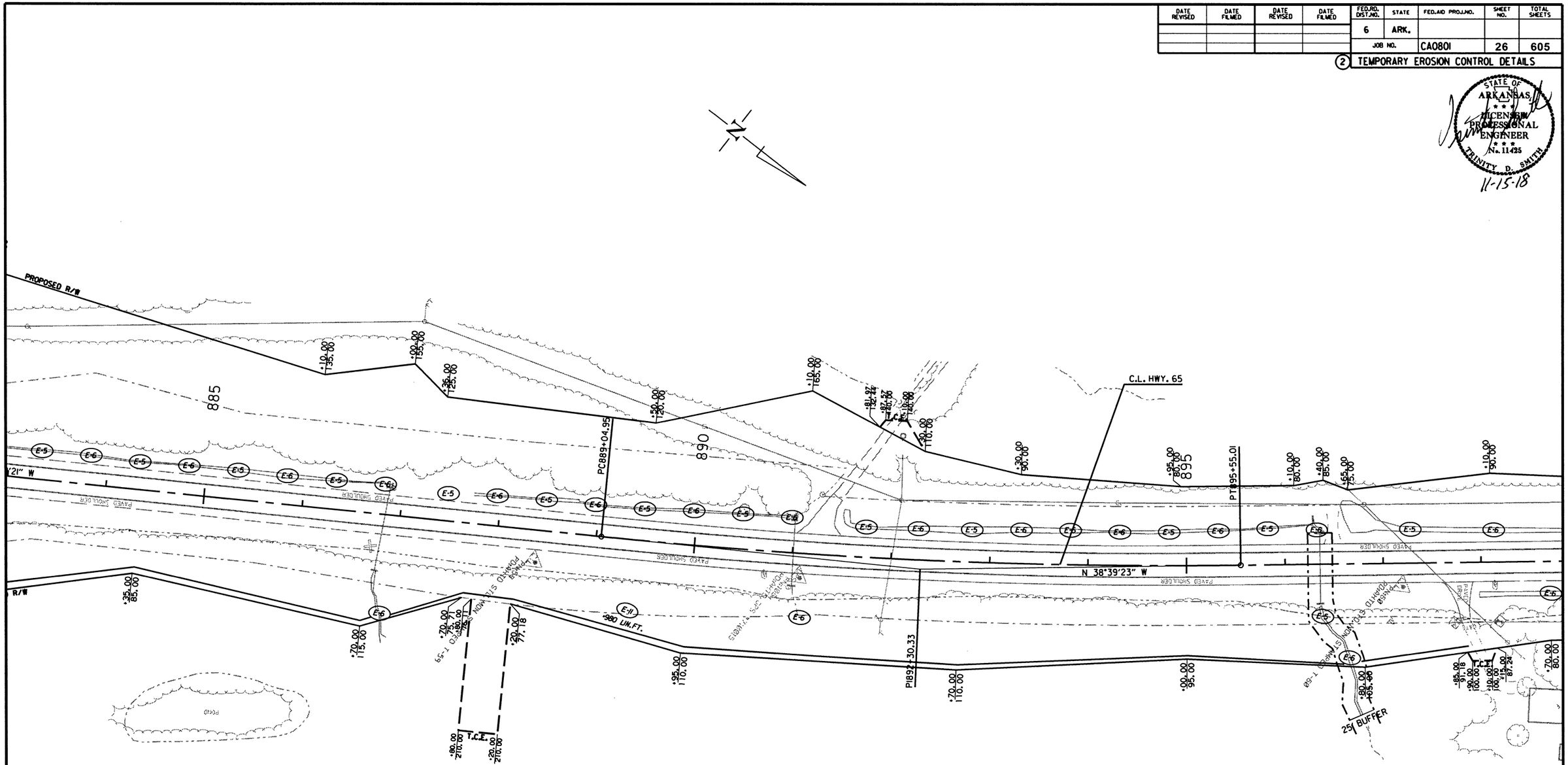
11/9/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	26	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

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CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

11/9/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	27	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 912+34.04
END JOB CA0801

C.L. HWY. 65

PROPOSED R/W

EXISTING R/W

POB700+00.00

N 38°39'23" W

POE913+81.33

N 57°20'37" E

PC701+73.45

C.L. HWY. 110

P1703+53.76

705
PT705+19.46
POE705+22.42

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	28	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63

C.L. HWY. 65

PC486+63.44

PI490+43.65

PT493+92.53

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

N 12°12'57" E

+30

+65.00 98.63

+09.00 115.00

+55.00 135.00

+30.00 105.00

+00 500+27.59

18'

.346 CU.FT.

.865 LIN.FT.

.280 LIN.FT.

+04.58 129.20

+45.00 115.00

50.00 45.00

OPEN STORAGE

GARY PACK LUMBER

PAVED

PARKING

490

495

500

CMP

PDDAHTD STD. MON STAMPED T-4

PDDAHTD STD. MON STAMPED T-5

PDDAHTD STD. MON STAMPED T-3

REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

+30.00 105.00

+346 CU.FT.

+55.00 135.00

+75.00 120.00

+42.95 120.00

+50.98 105.00

+25.00 75.00

+90.00 85.00

+15.00 95.00

+10.00 95.00

+75.00 90.00

+42.73 80.99

+10.00 90.00

+20.00 98.95

+30.00 90.00

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

PT509+21.19

PI505+21.73

505

510

515

24'

16'

34'

.201 CU.FT.

.360 LIN.FT.

N 32°04'24" W

+04

+46

+05

C.L. HWY. 65

PAVED SHOULDER

PAVED DITCH

SHRUBS

CMP

PDDAHTD STD. MON STAMPED T-6

PDDAHTD STD. MON STAMPED T-7

11/13/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	29	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	30	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-8) = DIVERSION DITCH
- (E-11) = SILT FENCE
- (E-12) = SLOPE DRAIN
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

RCA0801.DGN

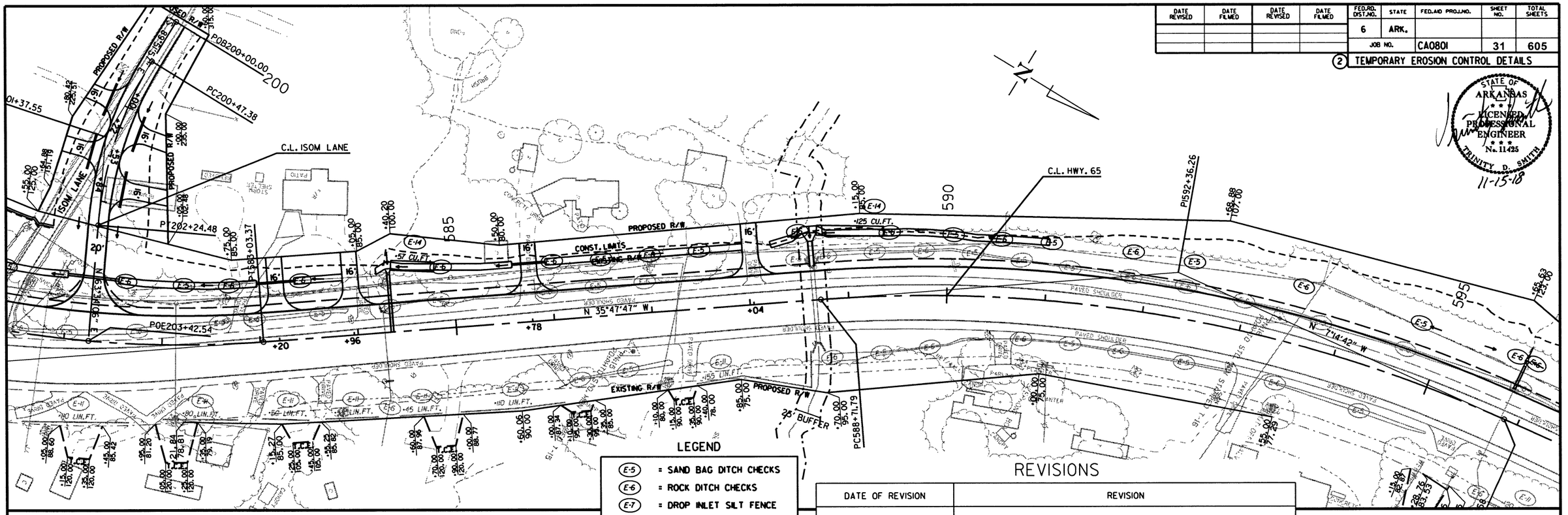
STAGE I

TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	31	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
* * *
LICENSED PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-8	= DIVERSION DITCH
E-11	= SILT FENCE
E-12	= SLOPE DRAIN
E-14	= SEDIMENT BASIN

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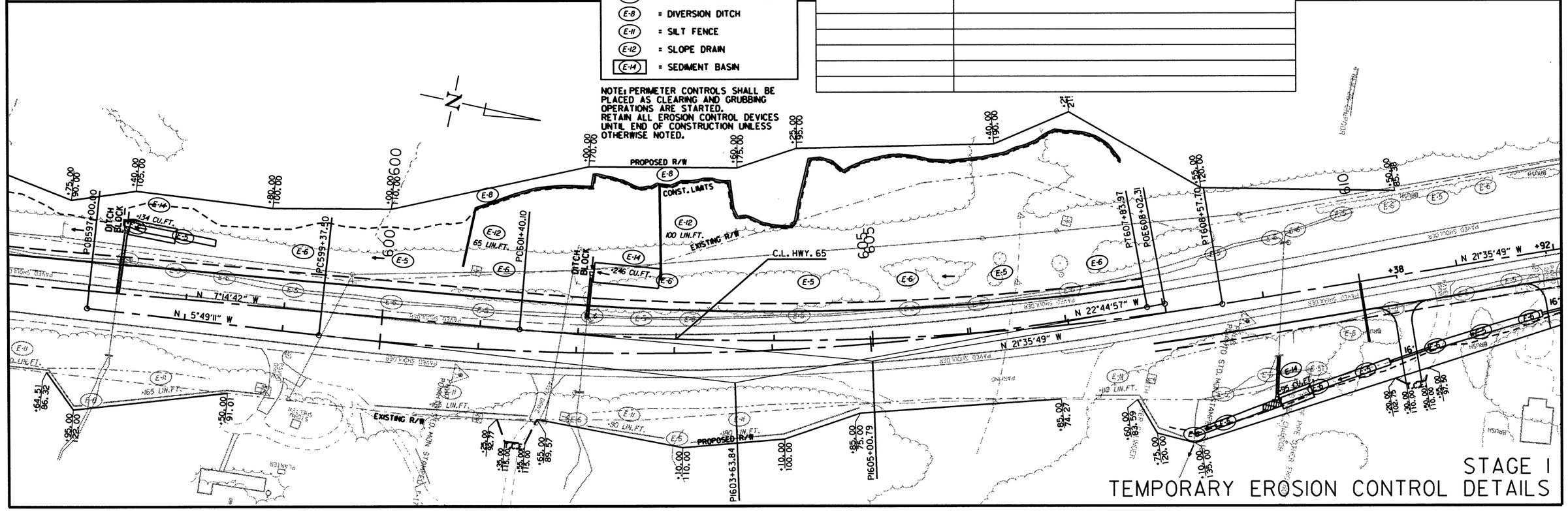
REVISIONS

DATE OF REVISION	REVISION



11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	32	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

C.L. DRIVEWAY 623+00
PI1201+47.28
PROPOSED R/W
P.O.B. 619+00.00
PC619+24.36
PI1618+38
PI1620+06.95
N 17°36'36" E
N 2°32'12" E
C.L. HWY. 65
EXISTING R/W
PT1201+74.98
POE1202+35.51
N 16°35'53" E
PT620+88.23
DITCH BLOCK
CONST. LIMITS
PROPOSED R/W
PT623+75.81
POE623+98.51
POB1300+00.00
PC1300+47.21
PC619+55.26
620
625
1200
630
635
640
1350

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

C.L. DRIVEWAY 631+35
PI1352+38.01
PC1352+08.33
PC1350+21.62
PI1350+70.06
POB1350+00.00
PI1350+50.62
PT1352+57.56
PC632+98.08
POE1353+12.12
PT637+54.06
PI1635+26.68
PI1300+81.83
C.L. HWY. 65
EXISTING R/W
CONST. LIMITS
PROPOSED R/W

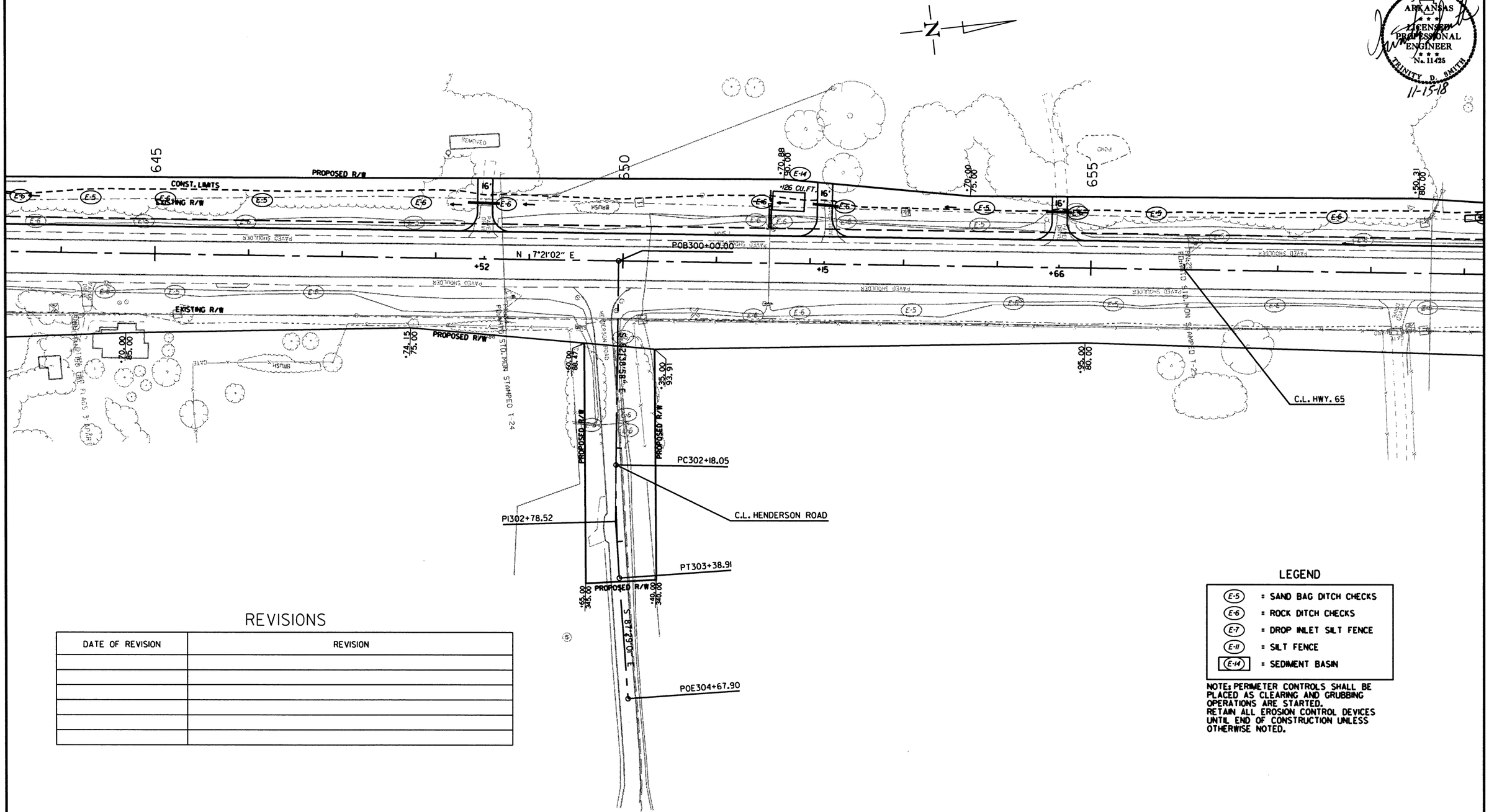
11/9/2018
RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	33	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
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11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	34	605

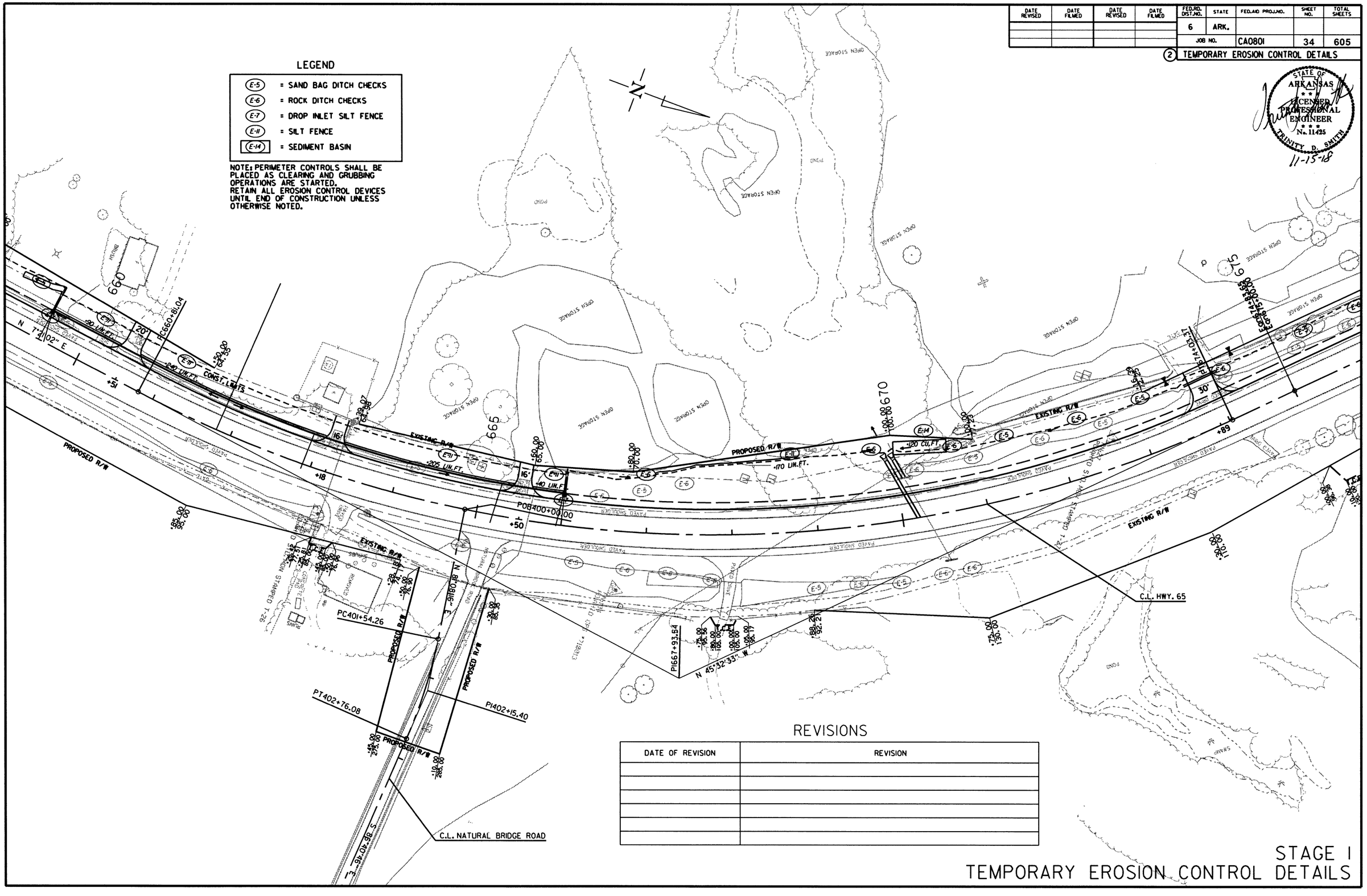
(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.


660
665
670
675
N 7°41'02" E
+51
+50
+18
+89
20'
16'
30'
PC660+81.04
64.38
64.38
64.38

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	35	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
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11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	36	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
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REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	37	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

C.L. HWY. 65

EXISTING R/W

DITCH BLOCK

·35 CU.FT.

·39 CU.FT.

·88 CU.FT.

·78 CU.FT.

·108 CU.FT.

·121 CU.FT.

·109 CU.FT.

·105 LIN.FT.

·225 LIN.FT.

·356 LIN.FT.

·195 LIN.FT.

·475 LIN.FT.

·485 LIN.FT.

·290 LIN.FT.

·660 LIN.FT.

·280 LIN.FT.

·260 LIN.FT.

N 30°16'30" W

N 51°50'12" W

PAVED SHOULDER

PAVED DRIVE

PAVING

BRUSH

CONCRETE PAD

POND

I-40 MON STA NUMBERED I-40

740 745 750 755 760 765 770

+10 +04 +00 +28

PC1401+96.68

PI1402+24.06

PT1402+46.78

POE1403+16.34

POB1400+00.00

PC1450+54.19

PI1451+27.73

POE1452+15.75

PT1451+70.52

PT1765+64.85

PC1751+27.41

POB1450+00.00

C.L. DRIVEWAY 759+00

C.L. DRIVEWAY 768+00

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

T.C.E.

25' BUFFER

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	38	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
* * *
LICENSED PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-15-18

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

C.L. HWY. 65

PC770+57.68

PI774+66.72

PT778+70.26

PC796+15.20

PI476+08.38

POE1471

PT1479+23

PC1475+54.56

POBI475+00.00

WATERGATE ROAD

C.L. DRIVEWAY 799+57

16'-0" GATE

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

N 35°35'06" W

126 CU.FT.

595 LIN.FT.

235 LIN.FT.

500 LIN.FT.

184 CU.FT.

131 CU.FT.

75 CU.FT.

730 LIN.FT.

120 LIN.FT.

80 LIN.FT.

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	39	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
TRINITY D. SMITH
LICENSED
PROFESSIONAL
ENGINEER
No. 11435
11-15-18

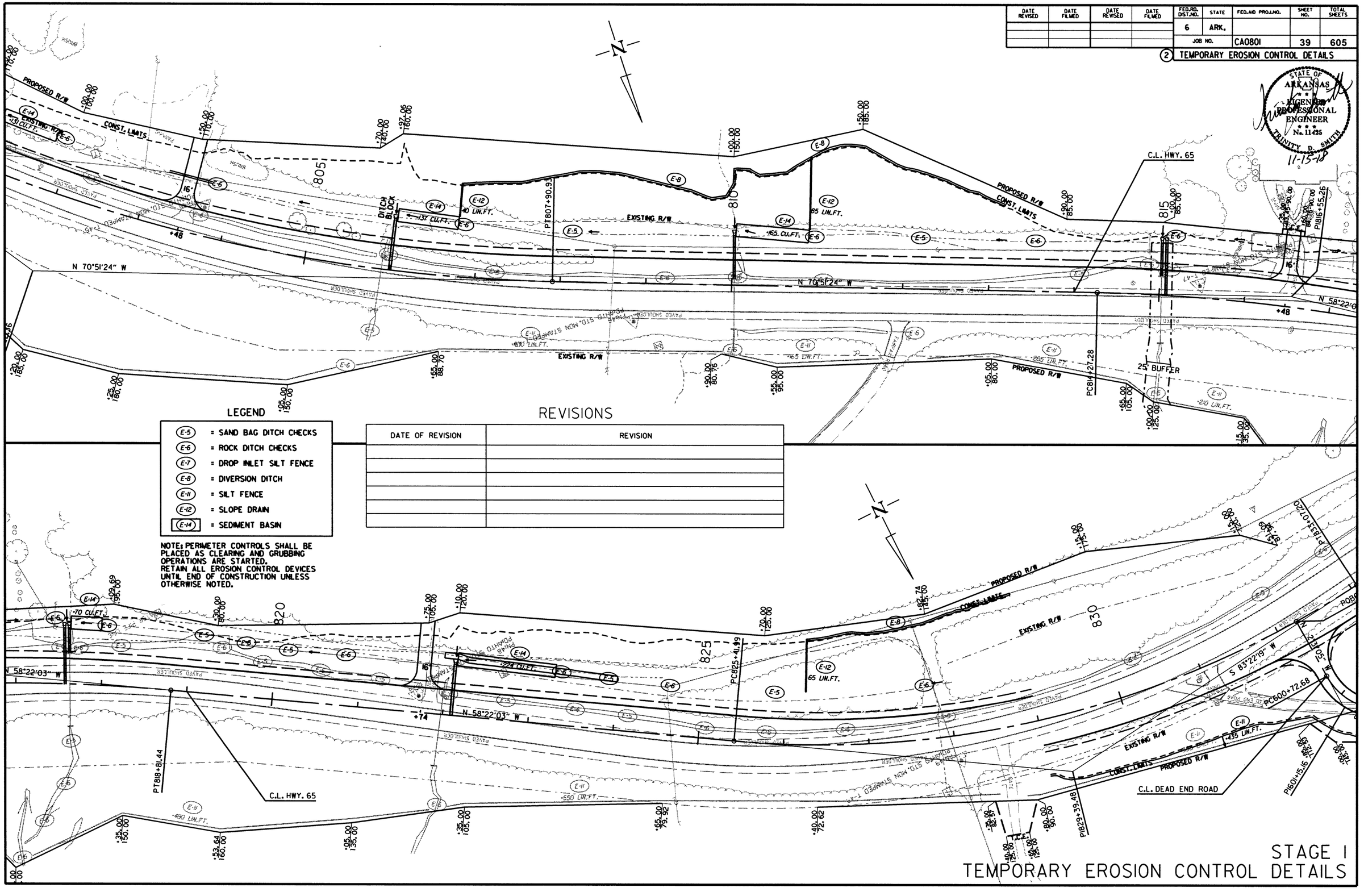
LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-8) = DIVERSION DITCH
- (E-11) = SILT FENCE
- (E-12) = SLOPE DRAIN
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION



STAGE I
TEMPORARY EROSION CONTROL DETAILS

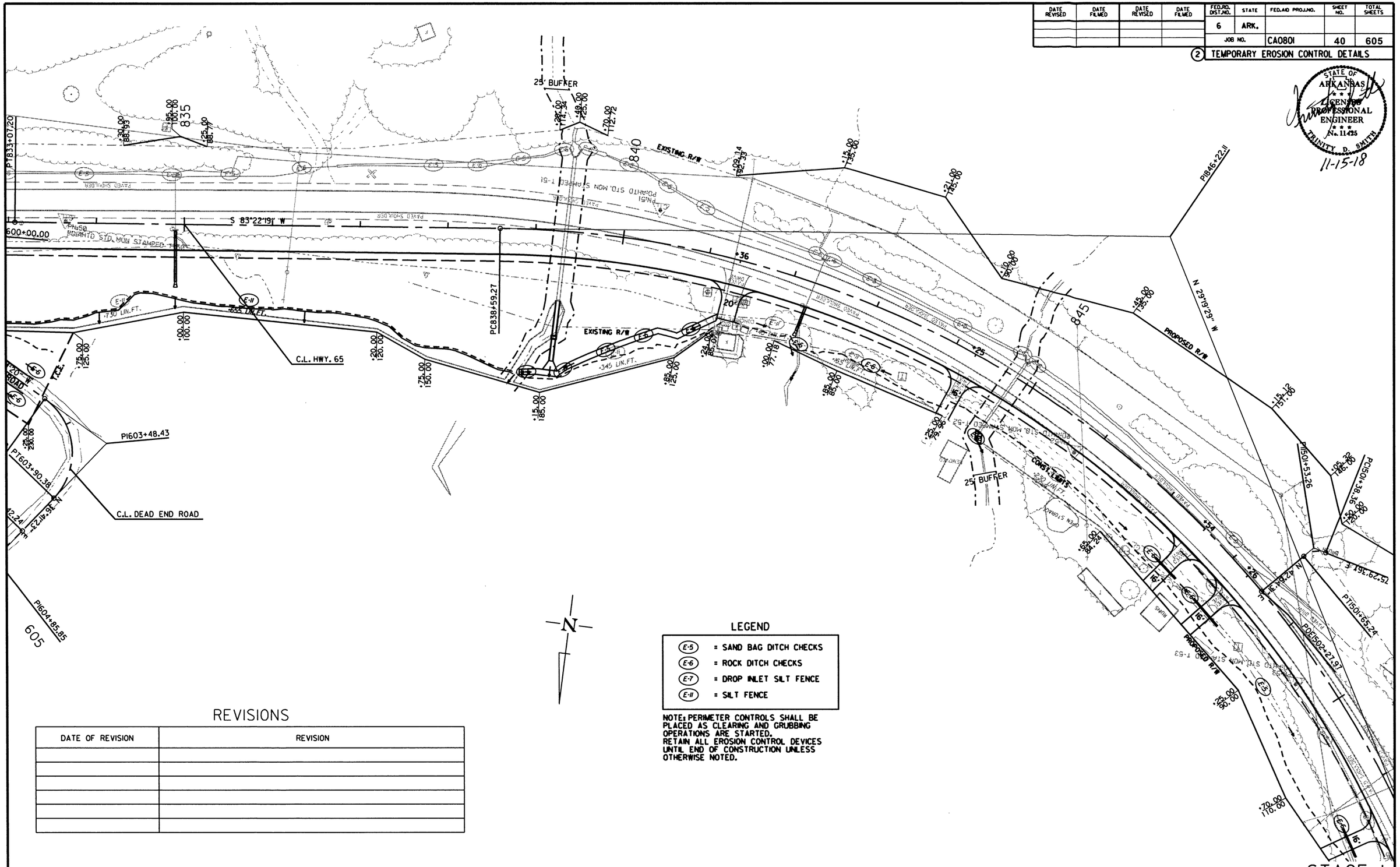
11/9/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	40	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



N

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	41	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-8) = DIVERSION DITCH
- (E-11) = SILT FENCE
- (E-12) = SLOPE DRAIN
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

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STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	42	605

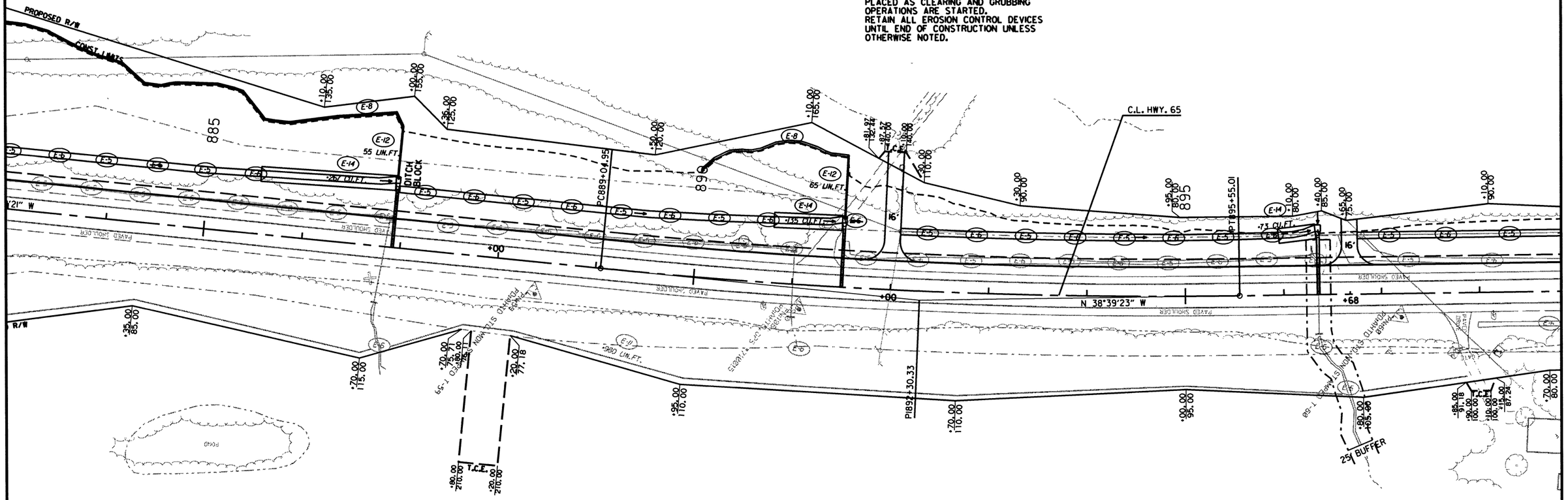
(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-8) = DIVERSION DITCH
- (E-11) = SILT FENCE
- (E-12) = SLOPE DRAIN
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.



REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	43	605

(2) TEMPORARY EROSION CONTROL DETAILS

REVISIONS

DATE OF REVISION	REVISION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 912+34.04
END JOB CA0801

C.L. HWY. 65

PROPOSED R/W
EXISTING R/W
CONST. LIMITS
115 CU.FT.
130 LIN.FT.
280 LIN.FT.
145 LIN.FT.
160 LIN.FT.
STAKED SILT FENCE
STANDARD DROP INLET
POB700+00.00
N 38°39'23" W
POE913+81.33
PC701+73.45
P1703+53.76
PT705+19.46
POE705+22.42
C.L. HWY. 110
N 51°20'37" E
N 11°33'37" E

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

RCA0801.DGN

STAGE I
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	44	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63

C.L. HWY. 65

PC486+63.4

PT493+92.53

PI490+43.65

EXISTING R/W

PROPOSED R/W

CONST. LIMITS

N 12°12'57" E

N 5°47'22" E

POB498+00.00

PI499+03.37

PI499+64.64

POB500+37.59

PT500+25.78

POE501+98.91

500

495

490

505

510

515

POB513+00.00

POE515+00.01

PI505+21.73

PT509+21.19

N 31°39'01" W

N 32°04'24" W

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	45	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

C.L. HWY. 65

C.L. SKYHILL DRIVE

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

N 32°04'24" W

N 16°36'53" E

PC138+57.14

PC100+14.62

PI100+94.71

PI101+73.77

POB100+00.00

POE102+84.60

PT532+88.74

PAVED SHOULDER

25' BUFFER

11/13/2018

RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	46	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-8) = DIVERSION DITCH
- (E-11) = SILT FENCE
- (E-12) = SLOPE DRAIN
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	47	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-8) = DIVERSION DITCH
- (E-11) = SILT FENCE
- (E-12) = SLOPE DRAIN
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/13/2018

RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	48	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN
- = TRIANGULAR SILT DIKE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

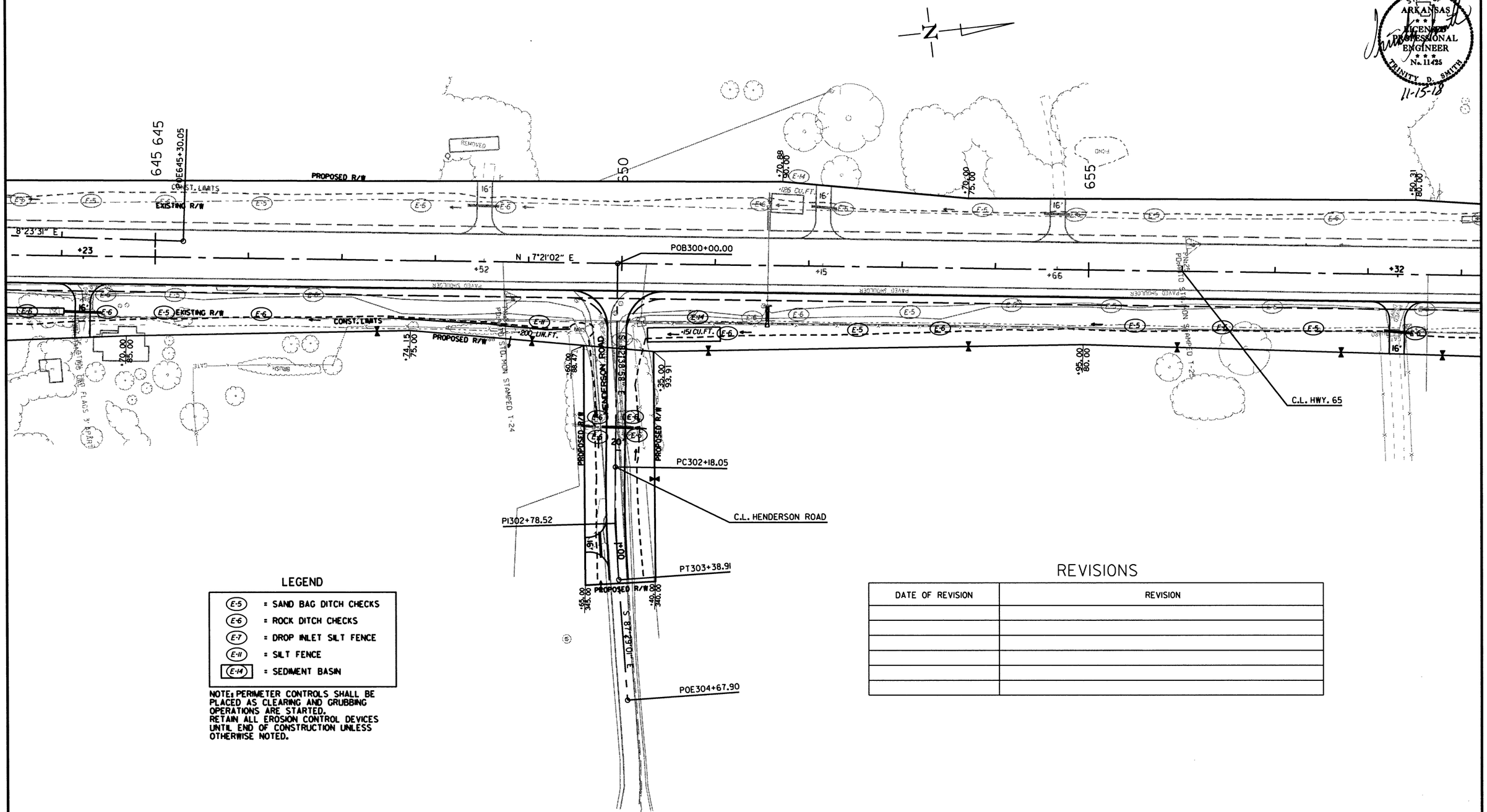
RCA0801.DGN

STAGE 2 TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	49	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

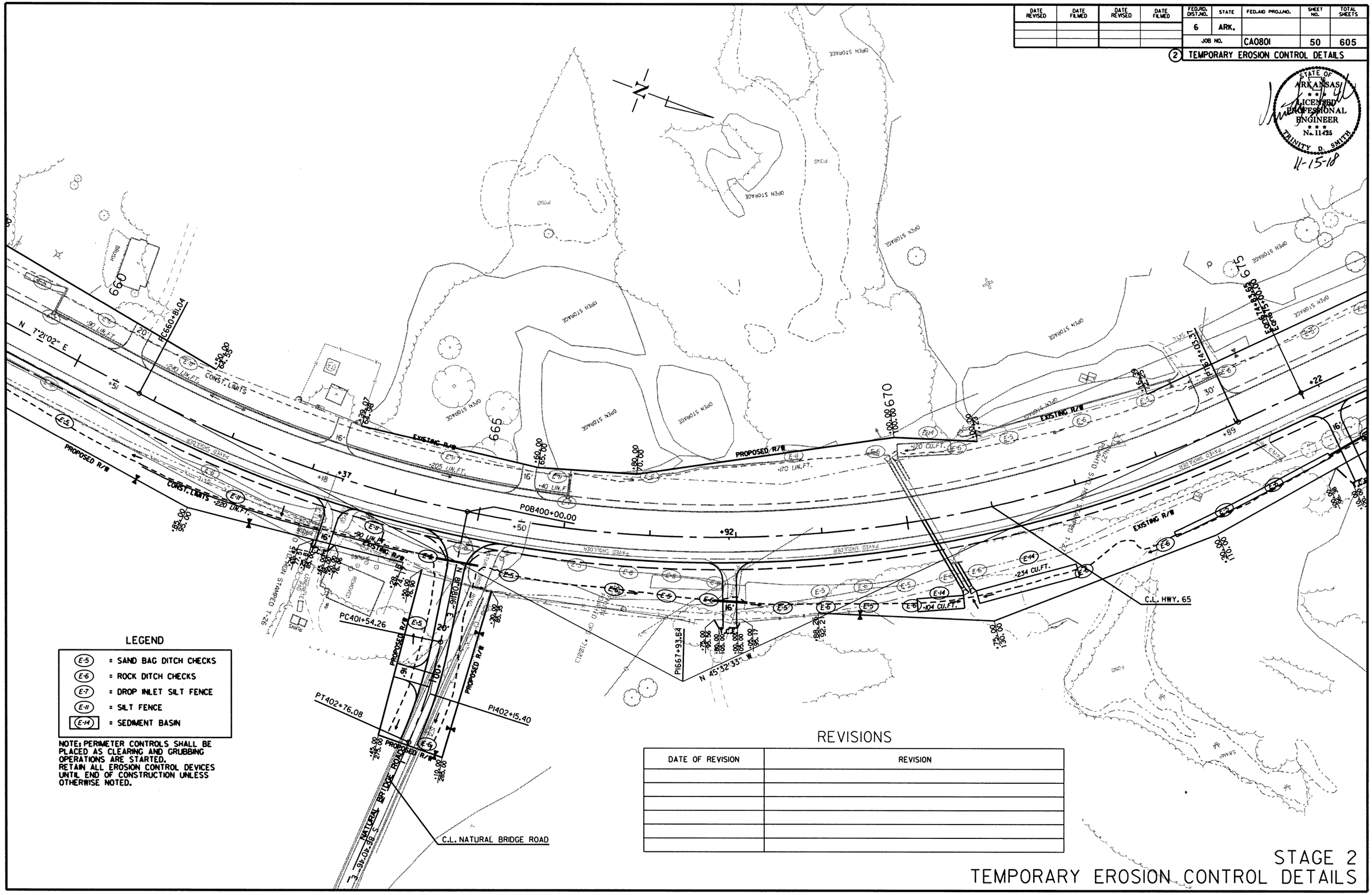
STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	50	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	51	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

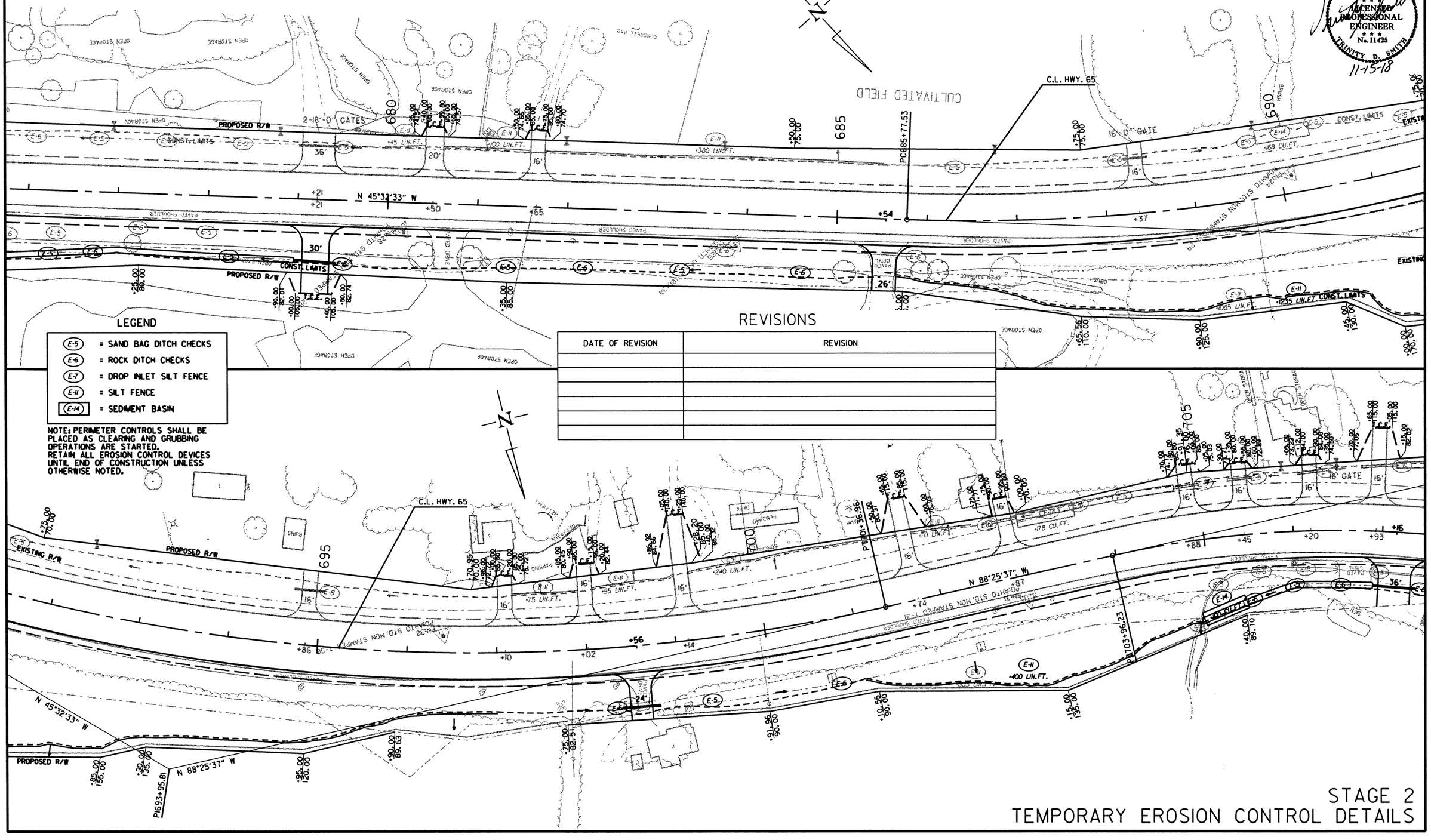
LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION



11/9/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	52	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

PI709+33.13
PI502+07.66 PROP. R/W
PC501+25.65
PT502+82.42
P08500+00.00
C.L. GLENN ROAD
C.L. HWY. 65
N 38°13'03" W
POE503+52.90
PT1144+08.12
BIG GUN ROAD
EXISTING R/W
PI731+45.08
PROPOSED R/W
CONST. LIMITS
PC727+47.34
25' BUFFER
PI735+41.5
16'-0" GATE
FAYETTE ROAD
PROP. R/W
STAGE 2
TEMPORARY EROSION CONTROL DETAILS

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	53	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERMIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/13/2018

RCA0801.DGN

STAGE 2 TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	54	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

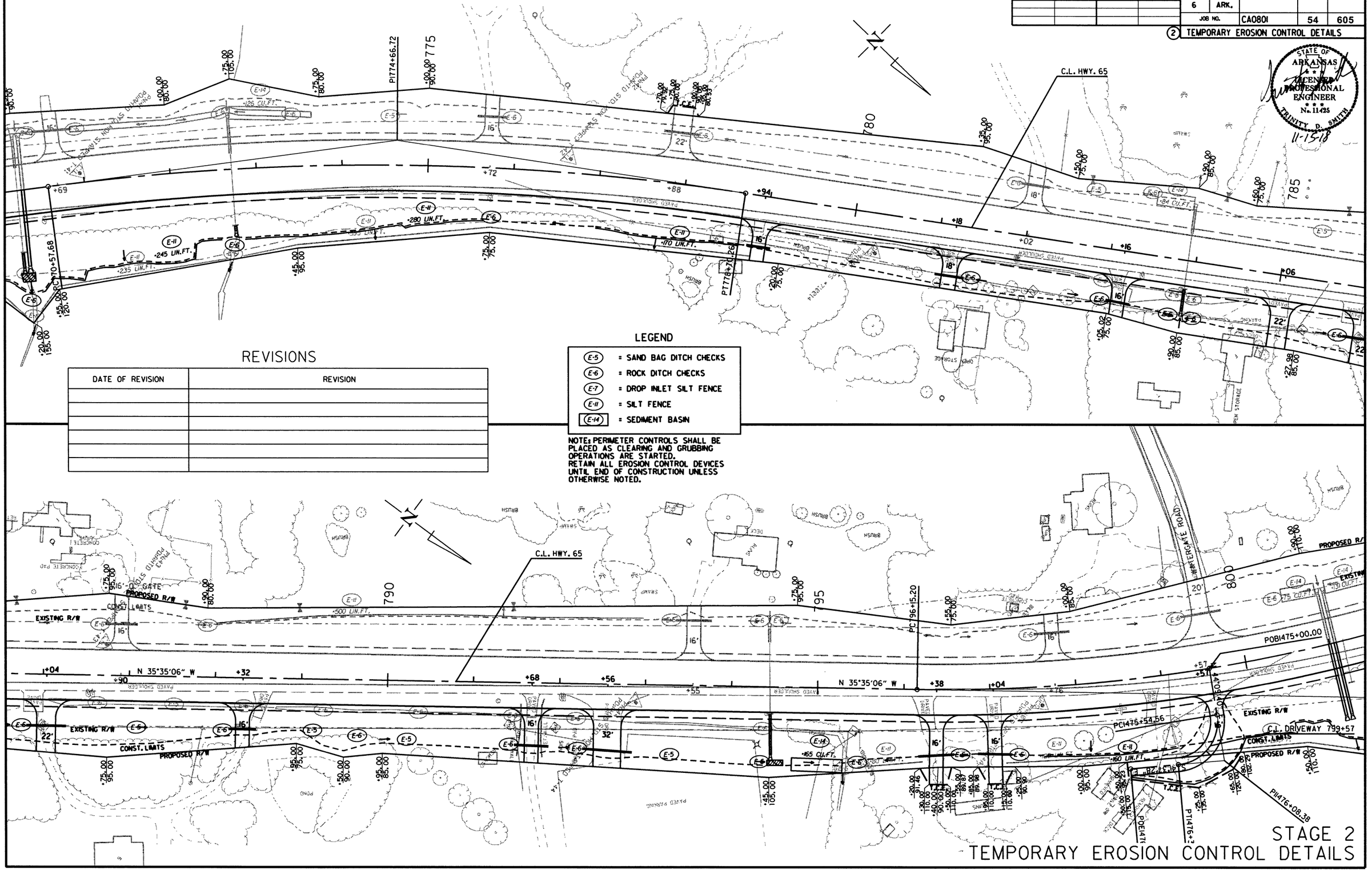
REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE
- (E-14) = SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.



STAGE 2
TEMPORARY EROSION CONTROL DETAILS

11/9/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	55	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

PROPOSED R/W
CONST. LIMITS
EXISTING R/W
C.L. HWY. 65
FARFAX ROAD
C.L. DEAD END ROAD
DITCH BLOCK
PT807+90.93
PC814+27.28
P1816+55.26
PT818+81.44
POB825+00.00
PC825+41.99
PC825+92.14
PC600+72.68
P1601+15.16
P1829+39.48
P1829+89.93
N 70°51'24" W
N 58°22'03" W
S 83°22'19" W
25' BUFFER
805
810
815
820
825
830

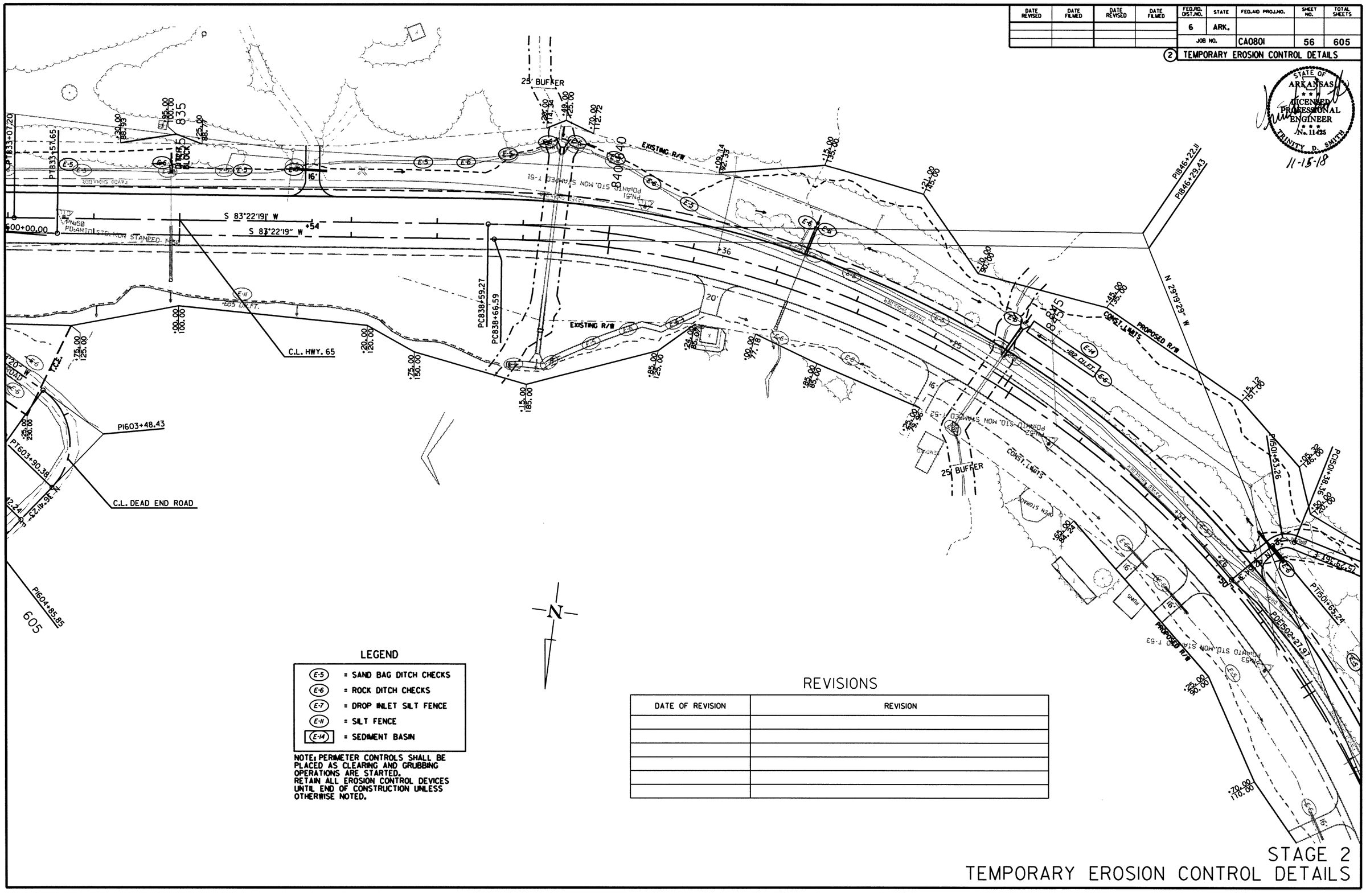
11/13/2018
RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	56	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE
E-14	= SEDIMENT BASIN

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

11/13/2018

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	57	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-6) = ROCK DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE
- (E-11) = SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/9/2018

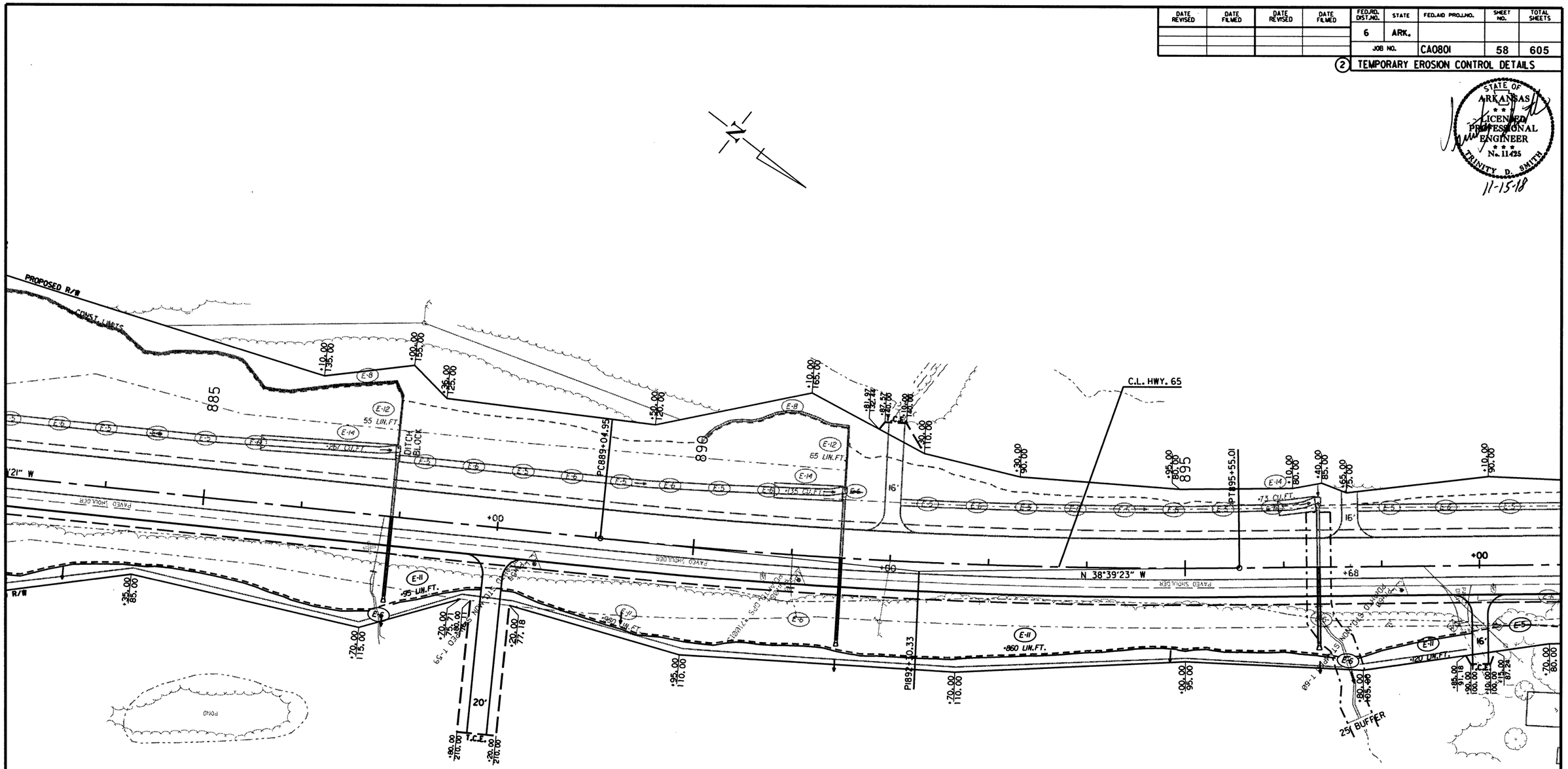
RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	58	605

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION

11/13/2018

RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	59	605

(2) TEMPORARY EROSION CONTROL DETAILS

REVISIONS

DATE OF REVISION	REVISION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 912+34.04
END JOB CA0801

C.L. HWY. 65

POB700+00.00
N 38°39'23" W

PC701+73.45

PI703+53.76

C.L. HWY. 110

705
PT705+19.46
POE705+22.42

N 11°39'37" E

EXISTING R/W
PROPOSED R/W
CONST. LIMITS

LEGEND

E-5	= SAND BAG DITCH CHECKS
E-6	= ROCK DITCH CHECKS
E-7	= DROP INLET SILT FENCE
E-11	= SILT FENCE

NOTE: PERIMETER CONTROLS SHALL BE PLACED AS CLEARING AND GRUBBING OPERATIONS ARE STARTED. RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

11/9/2018

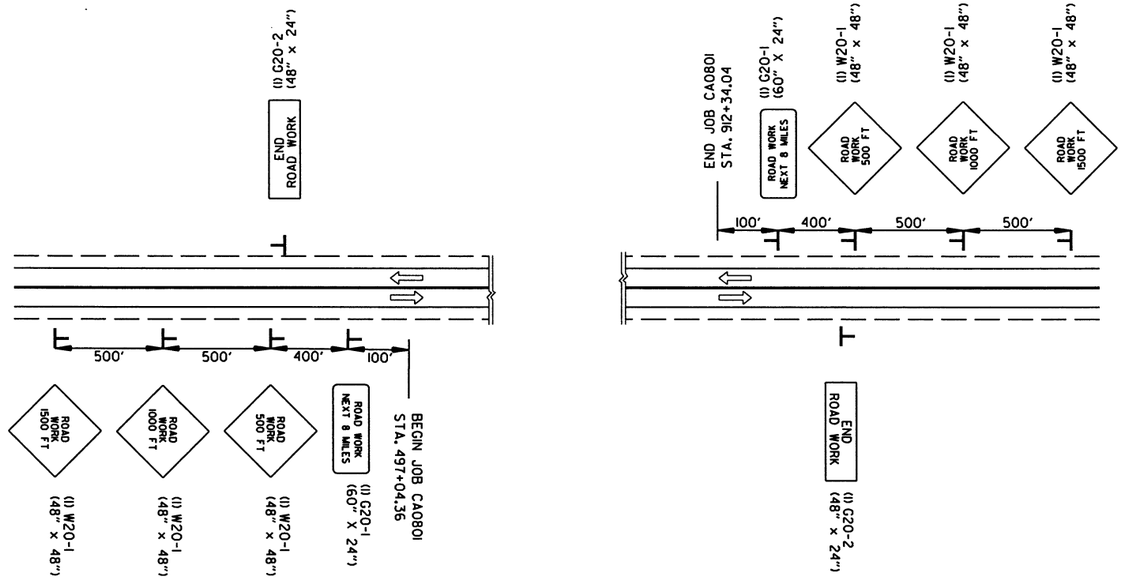
RCA0801.DGN

STAGE 2
TEMPORARY EROSION CONTROL DETAILS

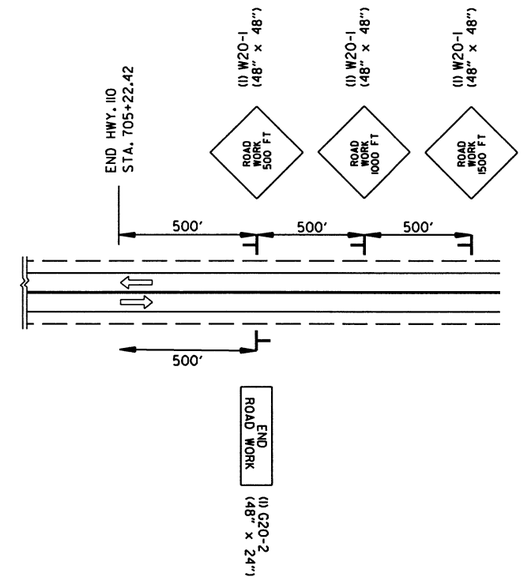
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	60	605

(2) MAINTENANCE OF TRAFFIC DETAILS

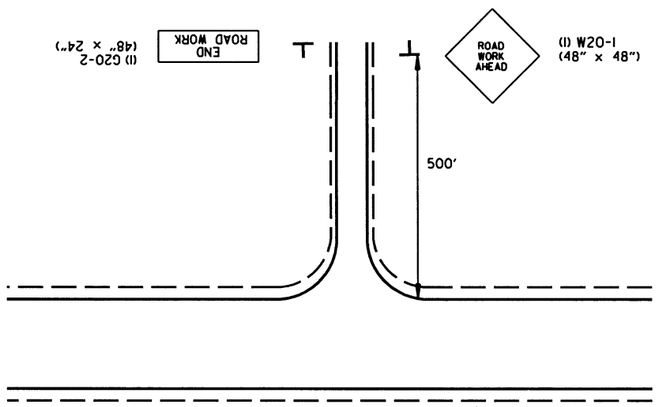
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



ADVANCE WARNING HWY. 65 (ALL STAGES)



ADVANCE WARNING HWY. 110 (ALL STAGES)



ADVANCE WARNING - SIDE ROADS (ALL STAGES)

STA. 539+10.00, SKYHILL DRIVE
STA. 545+80.00, VILLAGE ROAD
STA. 581+25.00, ISOM LANE
STA. 649+95.51, HENDERSON ROAD
STA. 664+86.36, NATURAL BRIDGE ROAD
STA. 715+00.00, GLENN ROAD
STA. 726+55.00, HEMMING ROAD
STA. 735+93.00, FAYETTE ROAD
STA. 799+57.00, WATERGATE ROAD
STA. 811+85.00, FAIRFAX ROAD
STA. 832+25.00, DEAD END ROAD
STA. 854+56.00, KIRKENDOLL ROAD
NOTE: ALL STATIONS BASED OFF HWY. 65.

RIGHT SHOULDER CLOSED	(8) W21-5a (36" × 36")	ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER
DO NOT PASS	(64) R4-1 (24" X 30")	ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER
BUMP	(16) W8-1 (30" X 30")	ALL STAGES TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

11/9/2018

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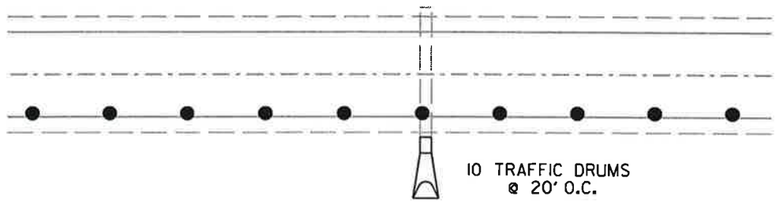
ADVANCE WARNING MAINTENANCE OF TRAFFIC DETAILS

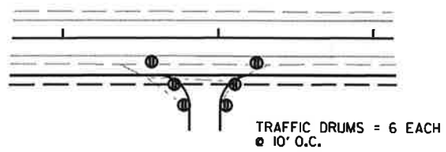
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
01-09-19				6	ARK.			
				JOB NO.		CA0801	61	605

(2) MAINTENANCE OF TRAFFIC DETAILS

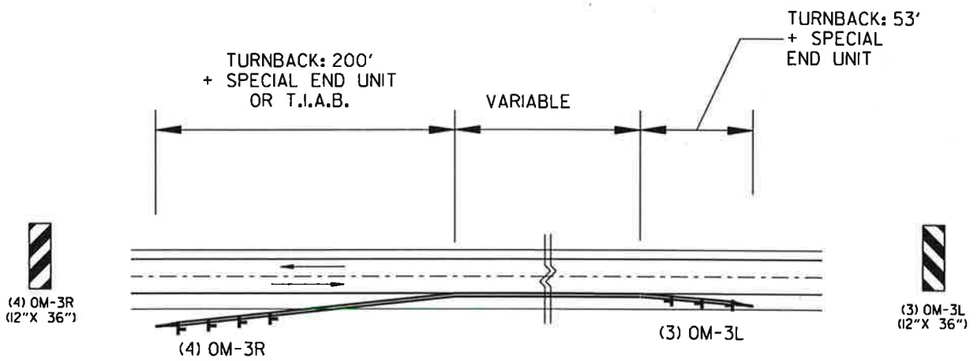
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
1-9-19



TRAFFIC DRUMS AND SIGNS ON EXISTING SHOULDER
FOR EXTENDING/CONSTRUCTING PIPE CULVERTS LT. AND RT.



DRIVEWAY/TRAFFIC DRUM DETAIL



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

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

DETAIL OF OBJECT MARKERS
AT PRECAST CONCRETE BARRIER TURNBACKS

CONSTRUCTION SEQUENCE

STAGE 1:

INSTALL ADVANCE WARNING SIGNS AT THE LOCATIONS LISTED ON THE ADVANCE WARNING DETAILS. INSTALL END ROAD WORK SIGNS AT THE END OF JOB AS SHOWN ON THE ADVANCE WARNING DETAILS. INSTALL ROAD WORK AHEAD (W20-1) SIGN ON RAMPS AS SHOWN ON THE ADVANCE WARNING DETAILS.

INSTALL CONSTRUCTION PAVEMENT MARKINGS, PRECAST CONCRETE BARRIERS, AND TRAFFIC DRUMS AS SHOWN IN THE STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

CONSTRUCT DRAINAGE STRUCTURES AS SHOWN IN THE STAGE 1 MAINTENANCE OF TRAFFIC DETAILS. CROSS DRAINS AT STA. 500+62, 755+36, 758+16, 763+70, 801+00, 806+00, 822+10, 855+18, 876+24, 880+50, AND 886+92 MAY BE REQUIRED TO BE CONSTRUCTED IN THEIR ENTIRETY DURING STAGE 1 TO MAINTAIN POSITIVE DRAINAGE.

CONSTRUCT LT. OF HWY. 65 FROM STA. 497+04.36 TO STA. 607+82.00, RT. OF HWY. 65 FROM STA. 607+82.00 TO STA. 622+00.00, LT. OF HWY. 65 FROM STA. 622+00.00 TO STA. 829+00.00, RT. OF HWY. 65 FROM STA. 829+00.00 TO STA. 853+00.00, AND LT. OF HWY. 65 FROM STA. 853+00.00 TO STA. 912+34.04 AS SHOWN IN THE STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2:

INSTALL CONSTRUCTION PAVEMENT MARKINGS AND TRAFFIC DRUMS AND RELOCATE PRECAST CONCRETE BARRIERS AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

SHIFT TRAFFIC AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

CONSTRUCT DRAINAGE STRUCTURES AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

CONSTRUCT RT. OF HWY. 65 FROM STA. 497+04.36 TO STA. 607+82.00, LT. OF HWY. 65 FROM STA. 607+82.00 TO STA. 622+00.00, RT. OF HWY. 65 FROM STA. 622+00.00 TO STA. 829+00.00, LT. OF HWY. 65 FROM STA. 829+00.00 TO STA. 853+00.00, AND RT. OF HWY. 65 FROM STA. 853+00.00 TO STA. 912+34.04 AS SHOWN IN THE STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

APPLY FINAL 2" LIFT OF ACHM AND PLACE PERMANENT PAVEMENT MARKINGS AS SHOWN IN THE PERMANENT PAVEMENT MARKING DETAILS.

1/8/2019

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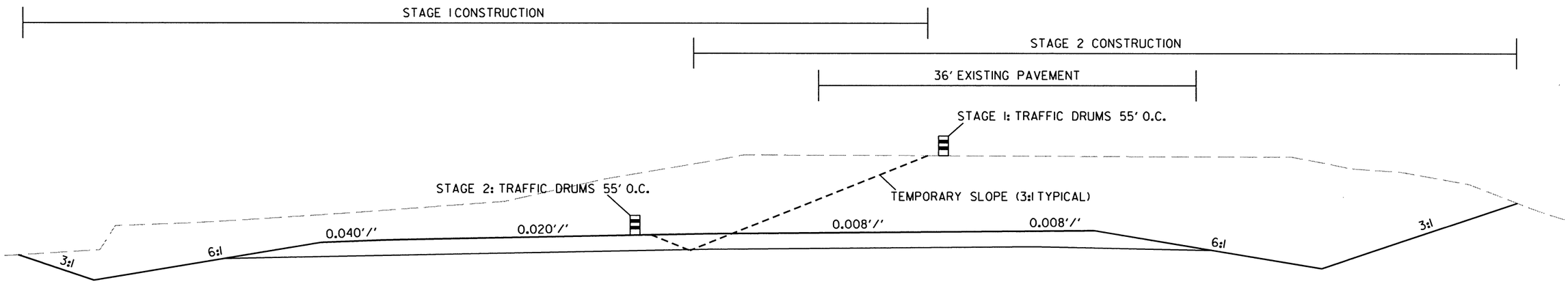
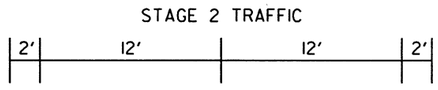
ADVANCE WARNING
MAINTENANCE OF TRAFFIC DETAILS

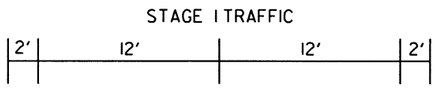
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	62	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18







STAGE CONSTRUCTION

11/9/2018

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	63	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

PC486+63.4
WHITE DOTTED REMOVABLE CONSTRUCTION PAVEMENT MARKING
C.L. HWY. 65
11' 17' 16'
WHITE SKIP REMOVABLE CONSTRUCTION PAVEMENT MARKING
WHITE CONSTRUCTION PAVEMENT MARKING (ARROW)
+65.00
PI490+43.65
DBL. YELLOW REMOVABLE CONSTRUCTION PAVEMENT MARKING
22'
19'
490
+20.00
420' LANE SHIFT
+40.00
135' TAPER
+75.00
STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63
PAVED SHLDR
PAVED SHLDR
STAMPED T-3
OPEN STORAGE
GARY PACK LUMBER
WHITE REMOVABLE CONSTRUCTION PAVEMENT MARKING
PT493+92.53
495
11'
24' 12'
WHITE CONSTRUCTION PAVEMENT MARKING
TRAFFIC DRUMS @ 55' O.C.
N 12°12'51" E
WHITE CONSTRUCTION PAVEMENT MARKING (ARROW)
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
270' TAPER
540' TAPER
+05.00
+75.00
+15.00
PAVED SHLDR
STAMPED T-4
PAVED SHLDR
STAMPED T-5
+65.00 98.63
+00.00 115.00
PROPOSED R/W
EXISTING R/W
CONST. LIMITS
500
+55.00 130.00
P0500+37.59
18'
+30.00 105.00
+30
12' 12'
EXISTING R/W
PROPOSED R/W
+04.58 129.20
+45.00 115.00
50.00 45.00
+15.00

STA. 503+00 INSTALL
18" x 62' TEMP. PIPE CULVERT
FILL AND ABANDON USING
7 CU. YD. FLOWABLE SELECT MATERIAL
IN STAGE 2
+30.00 100.00
+20.00
TRAFFIC DRUMS @ 55' O.C.
505
+55.00 135.00
PROPOSED R/W
CONST. LIMITS
+75.00 120.00
+42.85 120.00
PT509+21.19
510
+50.98 105.00
+35.00 75.00
24'
34'
C.L. HWY. 65
515
+00.00 75.00
+15.00 95.00
+30.00 85.00
16'
N 32°04'24" W
+46
+04
+75.00 90.00
EXISTING R/W
WHITE CONSTRUCTION PAVEMENT MARKING
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
PI505+21.73
+20.00 78.95
+10.00 95.00
PROPOSED R/W
+50.00 90.00
+42.73 80.99
+10.00 90.00

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STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	64	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

C.L. HWY. 65

C.L. SKYHILL DRIVE

WHITE CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

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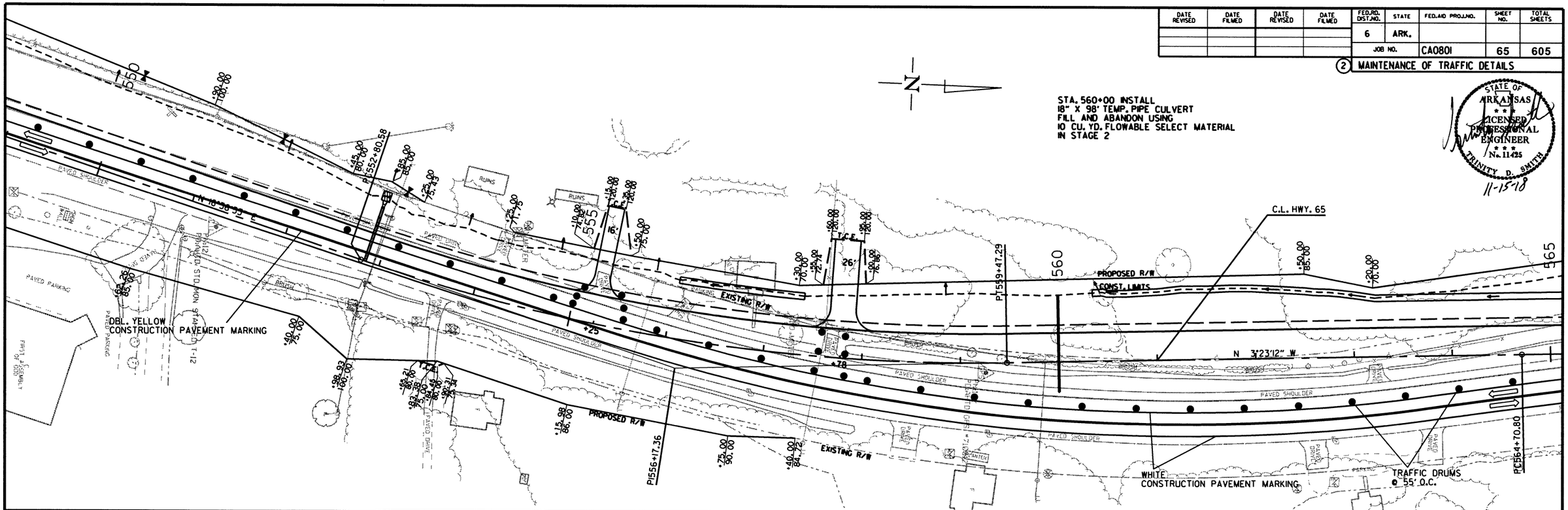
STAGE I
MAINTENANCE OF TRAFFIC DETAILS

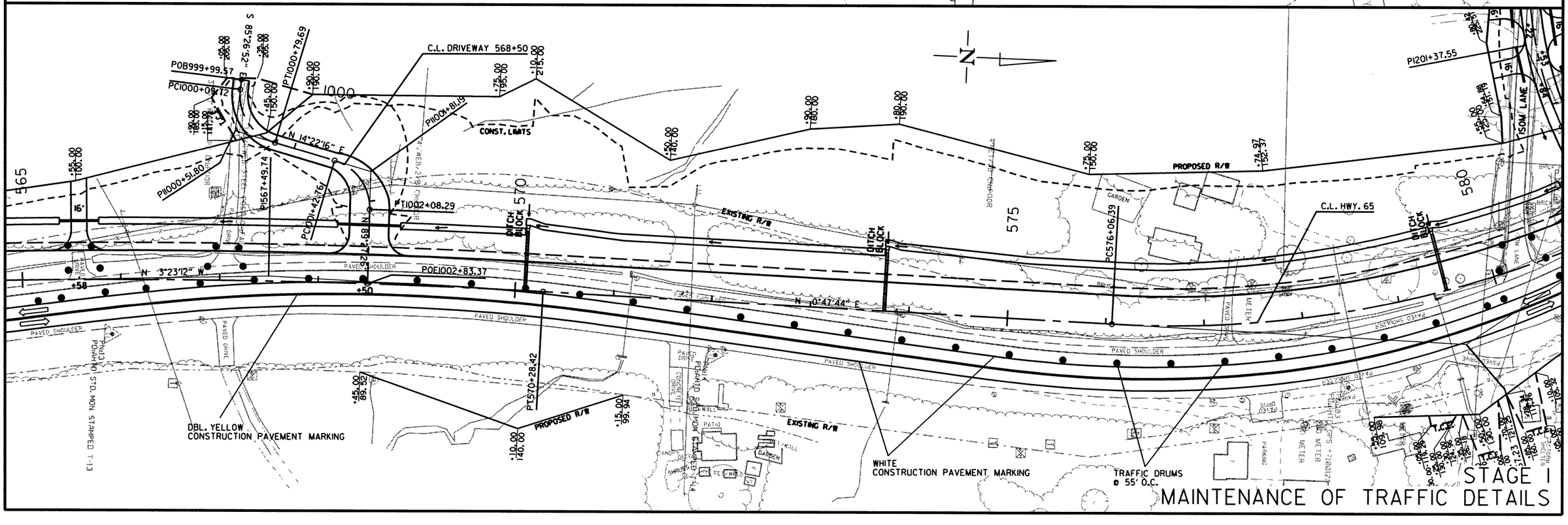
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	65	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 560+00 INSTALL
18" X 98' TEMP. PIPE CULVERT
FILL AND ABANDON USING
10 CU. YD. FLOWABLE SELECT MATERIAL
IN STAGE 2





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STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	66	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
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TRINITY D. SMITH
11-15-18

C.L. ISOM LANE

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

STAGE I
P.I. = 603+63.84
Δ = 16° 55' 46" LT.
D = 2° 00' 00"
T = 426.34'
L = 846.47'
P.C. = 599+37.50
P.T. = 607+83.97

STA. 610+00 INSTALL
18" X 60' TEMP. PIPE CULVERT
FILL AND ABANDON USING
6 CU. YD. FLOWABLE SELECT MATERIAL
IN STAGE 2

STA. 608+00.00 HWY. 65
=STA. 608+02.31 STAGE I
8.95' OFFSET

STA. 597+00.00 HWY. 65
=STA. 597+00.00 STAGE I
17.97' OFFSET

TRAFFIC DRUMS @ 55' O.C.

C.L. STAGE I

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

11/13/2018

RCA0801.DGN

STAGE I MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	67	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
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No. 11425
TRINITY D. SMITH
11-15-18

C.L. HWY. 65
EXISTING R/W
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
STA. 619+00.00 HWY. 65 =STA. 619+00.00 STAGE I 9.14' OFFSET
N 17°36'36" E
N 6°32'12" E
PI618+38
PI620+66.95
PROPOSED R/W
C.L. DRIVEWAY 623+00
PI1201+41.89
C.L. STAGE I
PT1201+74.98
N 16°35'53" E
POE1202+35.51
WHITE CONSTRUCTION PAVEMENT MARKING
PC619+24.96
PT620+88.23
DITCH BLOCK
CONST. LIMITS
TRAFFIC DRUMS @ 55' O.C.
POBI300+00.00
PCI300+47.21
PT623+75.81
POE623+98.51
FURNISH AND INSTALL 220' P.C.C.B.
+ (1) SPECIAL END UNIT
+ (1) T.I.A.B.

STAGE I
P.I. = 620+06.95
Δ = 13° 03' 41" RT.
D = 8° 00' 00"
T = 81.99'
L = 163.27'
P.C. = 619+24.96
P.T. = 620+88.23

STA. 626+00 INSTALL 18" X 64' TEMP. PIPE CULVERT FILL AND ABANDON USING 7 CU. YD. FLOWABLE SELECT MATERIAL IN STAGE 2

STA. 624+00.00 HWY. 65 =STA. 623+98.51 STAGE I 26.97' OFFSET

C.L. DRIVEWAY 631+35
PCI352+08.33
PI1352+38.01
PCI350+21.62
PT1350+70.06
POBI350+00.00
PT1352+57.56
PI1350+50.62
POE1353+12.12
PC632+98.08
PT637+54.06
PI635+26.68
N 17°36'36" E
S 7°21'02" E
C.L. HWY. 65
TRAFFIC DRUMS @ 55' O.C.
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
WHITE CONSTRUCTION PAVEMENT MARKING
FURNISH AND INSTALL 860' P.C.C.B.
+ (1) SPECIAL END UNIT
+ (1) T.I.A.B.
EXISTING R/W
PROPOSED R/W
CONST. LIMITS

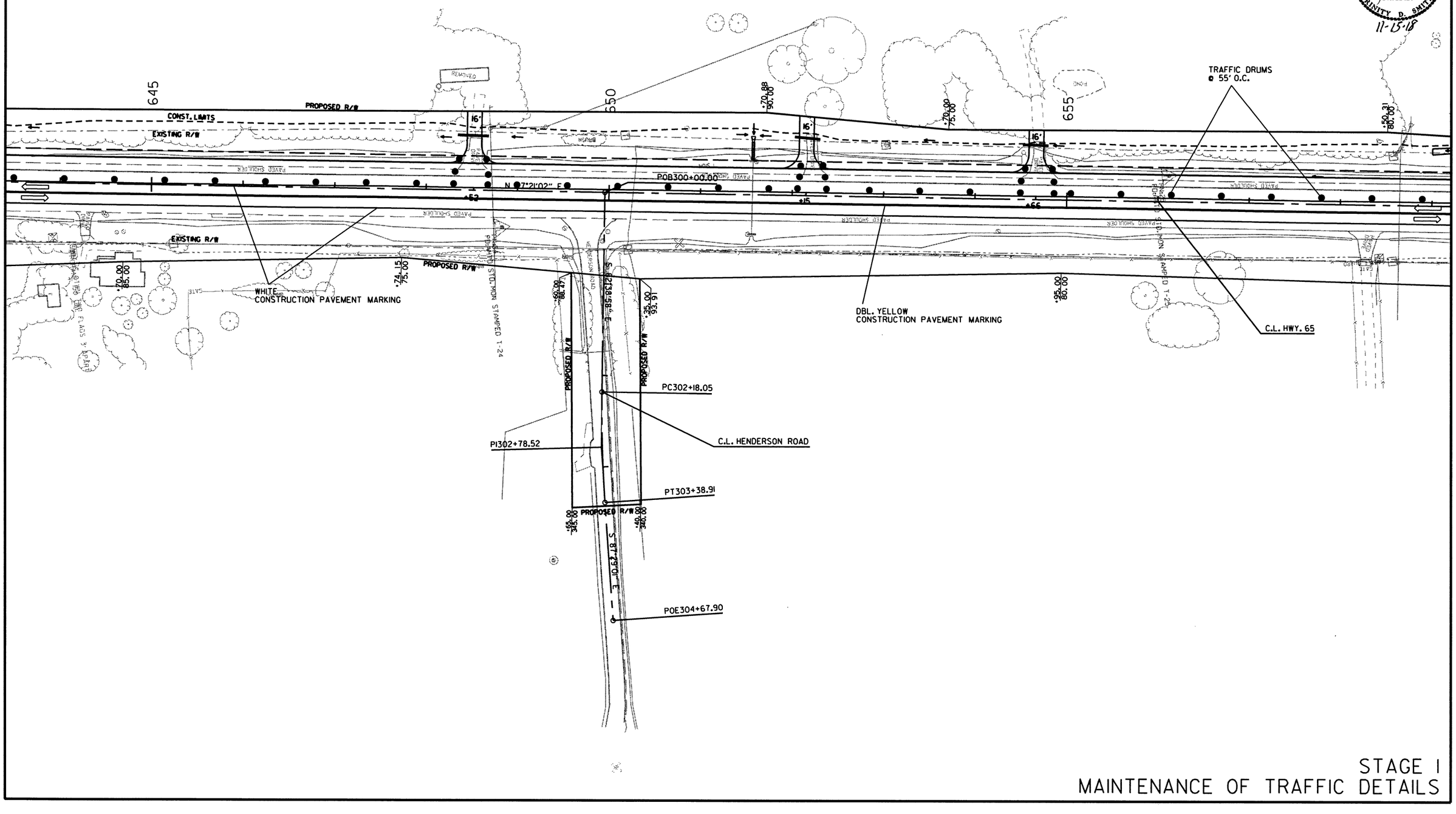
STAGE I
MAINTENANCE OF TRAFFIC DETAILS

11/13/2018
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	68	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



11/13/2018

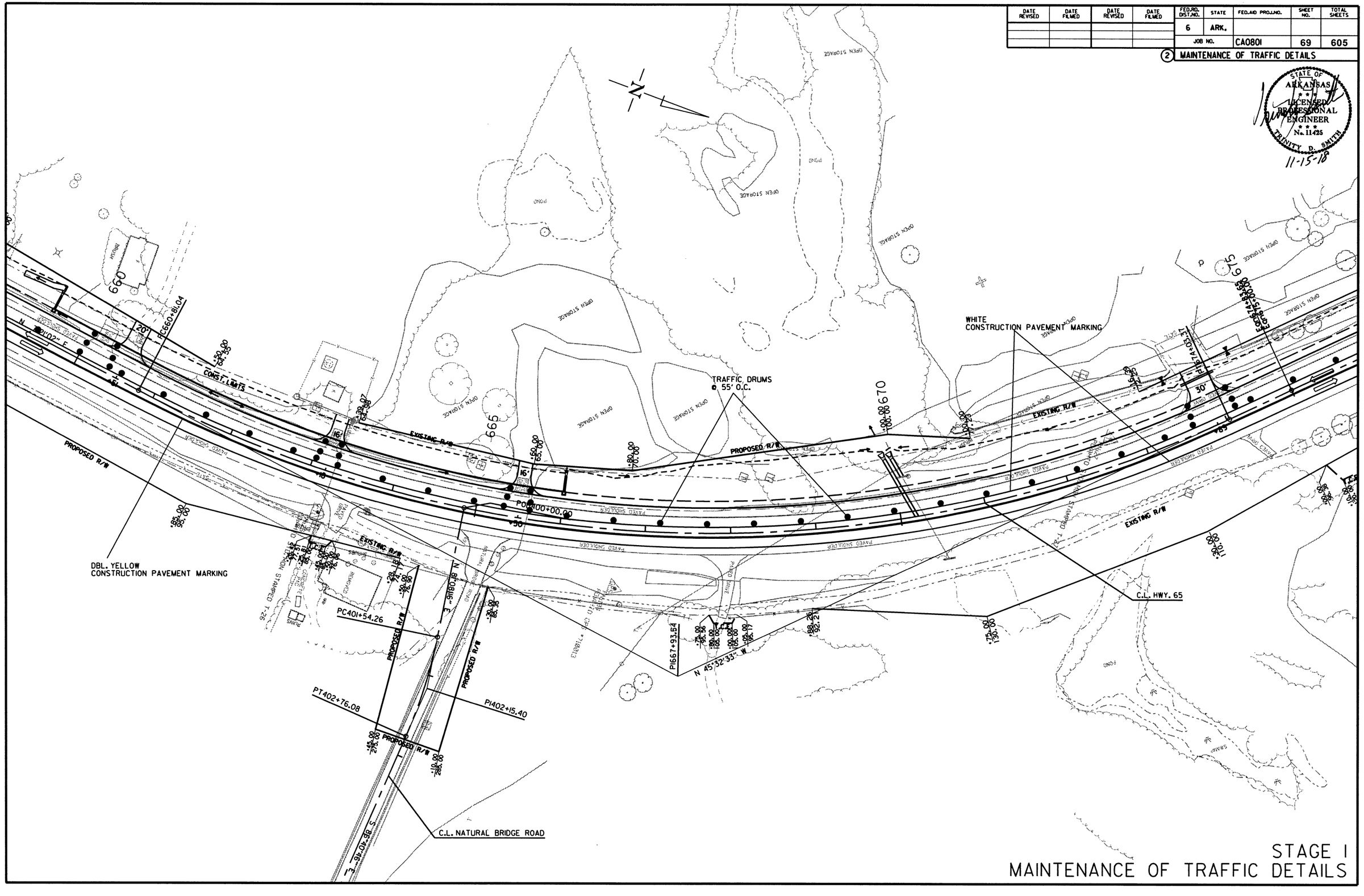
RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	69	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



STAGE I
MAINTENANCE OF TRAFFIC DETAILS

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	70	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
PROPOSED R/W
CONST. LIMITS
2-18'-0" GATES
TRAFFIC DRUMS @ 55' O.C.
C.L. HWY. 65
CULTIVATED FIELD
PC685+77.53
16'-0" GATE
WHITE CONSTRUCTION PAVEMENT MARKING
EXISTING R/W
N 45°32'33" W
N 88°25'37" W
PI693+95.81
PC703+96.23
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
WHITE CONSTRUCTION PAVEMENT MARKING

11/13/2018

RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	71	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. GLENN ROAD

C.L. HWY. 65

EXISTING R/W

PROPOSED R/W

CONST. LIMITS

HEMMING ROAD

11/13/2018

RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	72	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

C.L. HWY. 65

WHITE CONSTRUCTION PAVEMENT MARKING

EXISTING R/W

DITCH BLOCK

N 30°16'30" W

N 30°16'30" W

PC751+27.41

+04

+00

C.L. DRIVEWAY 759+00

POBI400+00.00

PCI401+96.68

PI1402+24.06

PTI402+46.78

POEI403+16.34

C.L. HWY. 65

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

POBI450+00.00

N 51°50'12" W

PCI450+54.19

PROPOSED R/W

C.L. DRIVEWAY 768+00

PI1451+27.73

PT1451+70.52

POEI452+15.75

PI1758+54.73

TRAFFIC DRUMS @ 55' O.C.

11/13/2018

RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	73	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

C.L. HWY. 65

PC770+57.68

PI774+66.72

PT778+70.26

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

WHITE CONSTRUCTION PAVEMENT MARKING

16'-0" GATE

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

N 35°35'06" W

TRAFFIC DRUMS @ 55' O.C.

WATERGATE ROAD

POB1435+00.00

PC1475+54.56

C.L. DRIVEWAY 799+57

PI1476+08.38

POE1476+92.67

PT1476+36.78

11/13/2018

RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	74	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

C.L. DEAD END ROAD

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

PAVED SHOULDER

DITCH BLOCK

PT807+90.93

PC825+41.99

PT818+81.44

PC829+39.48

PI816+55.26

PI829+01.20

PC600+72.68

PI601+15.16

N 70°51'24" W

N 58°12'03" W

S 83°22'19" W

N 22°0

805 810 815 820 825 830

11/13/2018

RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	75	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11435
TRINITY D. SMITH
11-15-18

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

EXISTING R/W

PROPOSED R/W

C.L. HWY. 65

C.L. DEAD END ROAD

TRAFFIC DRUMS @ 55' O.C.

CONST. LIMITS

P1833+07.20

600+00.00

S 83°22'19" W

PC838+59.27

P1603+48.43

P1603+90.38

N 42°44'35" E 42.24'

P1604+85.85

605

PI846+22.11

N 29°19'29" W

PI501+53.26

PC501+38.36

N 42°44'35" E

P1501+65.24

POT1502+21.97

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	76	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
TRINITY D. SMITH
No. 11425
REGISTERED PROFESSIONAL ENGINEER
11-15-18

TRAFFIC DRUMS @ 55' O.C.

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

C.L. DRIVEWAY 854+56

C.L. DRIVEWAY 876+75

KIRKENDOLL ROAD

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

POBI700+00.00

PC1700+24.44

PT1700+92.82

PI1700+65.19

PT1702+46.58

POE1703+07.15

PI1702+49.99

PC1701+78.46

PT1876+84.70

PI1873+70.61

PC870+50.63

PI1702+33.99

PC1650+72.34

PT1652+05.54

PI1651+06.62

PT1651+32.43

POE1652+40.48

PC859+05.26

PI1864+03.44

PI1601+48.63

PC1601+24.58

PI1860+56.02

DITCH BLOCK

N 29°19'29" W

N 13°08'02" W

N 32°09'21" W

N 8°11'16" W

N 60°40'31" E

N 57°50'39" W

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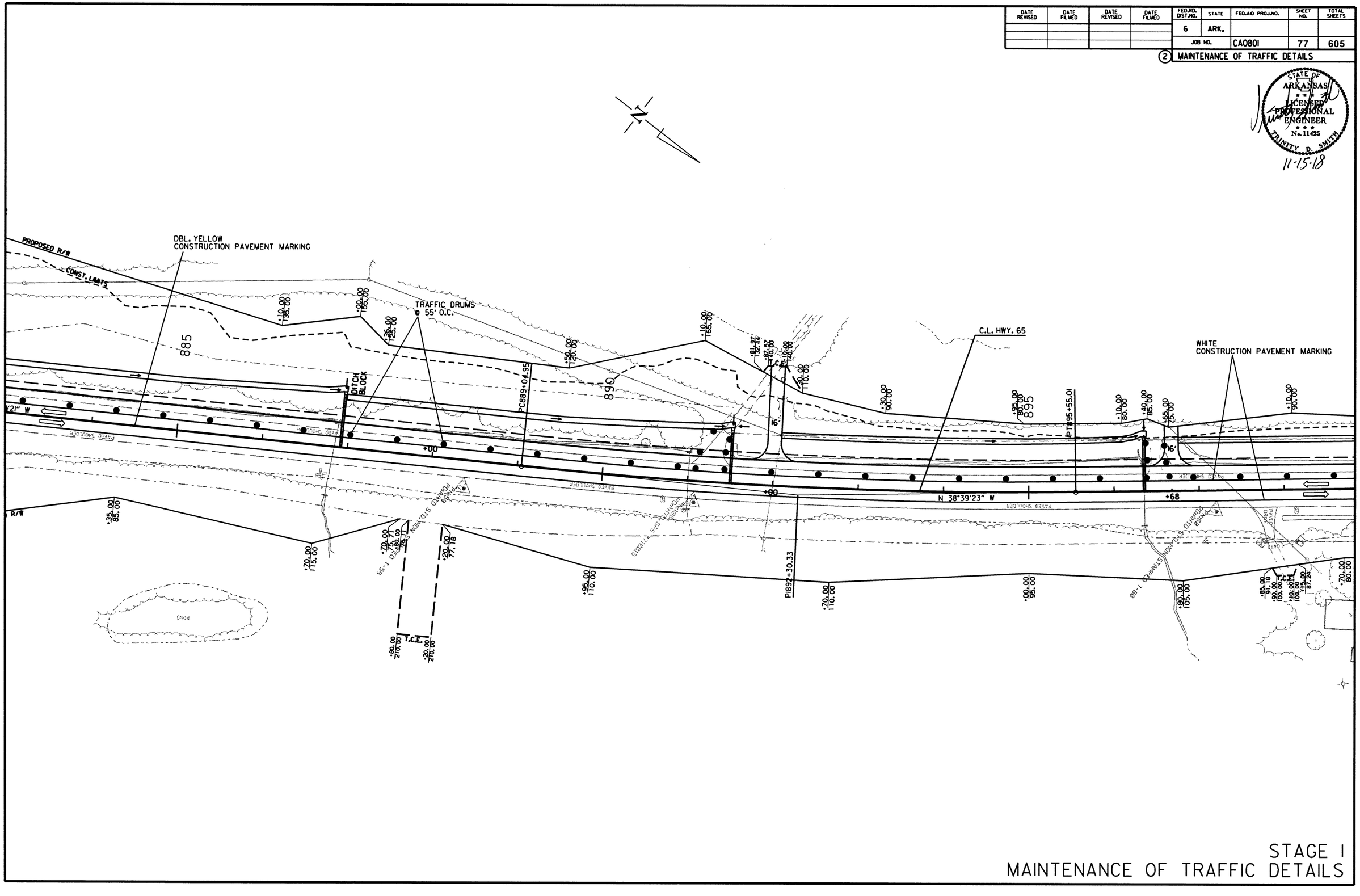
STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	77	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



11/13/2018

RCA0801.DGN

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	78	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

WHITE CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

C.L. HWY. 65

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

900 905 910

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

N 38°39'23" W

POB 100+00.00

N 38°39'23" W

STA. 912+34.04
END JOB CA0801

PC701+73.45

C.L. HWY. 110

PI703+53.76

705

PT705+19.46

POE705+22.42

N 11°33'01" E

STAGE I
MAINTENANCE OF TRAFFIC DETAILS

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	79	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63

STAGE 2
P.I. = 499+64.64
Δ = 6° 25' 35" LT.
D = 5° 15' 00"
T = 61.27'
L = 122.41'
P.C. = 499+03.37
P.T. = 500+25.78

STA. 498+00.00 HWY. 65
=STA. 498+00.00 STAGE 2
0.00' OFFSET

STA. 502+00.00 HWY. 65
=STA. 501+98.91 STAGE 2
19.50' OFFSET

STA. 513+00.00 HWY. 65
=STA. 513+00.00 STAGE 2
19.50' OFFSET

STA. 515+00.00 HWY. 65
=STA. 515+00.01 STAGE 2
17.50' OFFSET

C.L. HWY. 65

C.L. STAGE 2

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

TRAFFIC DRUMS
@ 55' O.C.

WHITE
REMOVEABLE CONSTRUCTION
PAVEMENT MARKING

WHITE
CONSTRUCTION PAVEMENT MARKING (ARROW)

DBL. YELLOW
REMOVEABLE CONSTRUCTION
PAVEMENT MARKING

DBL. YELLOW
CONSTRUCTION PAVEMENT MARKING

270' TAPER

625' TAPER

420' LANE SHIFT

135' TAPER

N 12°12'57" E

N 5°47'22" E

N 31°39'01" W

N 32°04'24" W

PC486+63.4

PI490+43.65

PT493+92.53

PT500+25.78

PC499+03.37

PI499+64.64

POE501+98.91

PT509+21.19

POB513+00.00

POE515+00.01

PI505+21.73

490

495

500

505

510

515

11/13/2018

RCA0801.DGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	80	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

C.L. SKYHILL DRIVE

PC100+14.62

PI100+94.71

PT101+73.77

POB100+00.00

POB102+84.60

PC5(R)+16.00

PT532+88.74

N 32°04'24" W

N 16°36'53" E

S 73°30'07" E

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

PAVED SHOULDER

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

11/13/2018

RCA0801.DGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	81	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

TRAFFIC DRUMS @ 55' O.C.

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

C.L. DRIVEWAY 568+50

TRAFFIC DRUMS @ 55' O.C.

11/13/2018

RCA0801.DGN

STAGE 2 MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	82	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

C.L. ISOM LANE
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
C.L. HWY. 65
TRAFFIC DRUMS @ 55' O.C.
WHITE CONSTRUCTION PAVEMENT MARKING
PROPOSED R/W
EXISTING R/W
CONST. LIMITS

STAGE 2
P.I. = 606+64.00
Δ = 14° 21' 07" LT.
D = 2° 00' 00"
T = 360.69'
L = 717.60'
P.C. = 603+03.31
P.T. = 610+20.91

STA. 597+00.00 HWY. 65
=STA. 597+00.00 STAGE 2
17.50' OFFSET

STA. 611+00.00 HWY. 65
=STA. 611+00.75 STAGE 2
23.50' OFFSET

11/13/2018

RCA0801.DGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	83	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 619+00.00 HWY. 65
=STA. 619+00.00 STAGE 2
23.50' OFFSET

STA. 627+00.00 HWY. 65
=STA. 626+98.39 STAGE 2
17.50' OFFSET

STA. 642+00.00 HWY. 65
=STA. 642+00.00 STAGE 2
23.50' OFFSET

C.L. DRIVEWAY 623+00
C.L. DRIVEWAY 631+35
C.L. HWY. 65
C.L. STAGE 2

PROPOSED R/W
CONST. LIMITS
EXISTING R/W
PAVED DRIVE
GRAVEL DRIVE
T.C.E.
DITCH BLOCK
PAVED DITCH
PAVED SIDE DRIVE
PAVED SIDE WALK
POND
BRUSH
PLANTED STA. MON STAMPED T-23

P.I. 623+22.56
Δ = 14° 54' 12" RT.
D = 3° 30' 00"
T = 214.11'
L = 425.81'
P.C. = 621+08.45
P.T. = 625+34.26

N 17°36'36" E
N 2°42'24" E
N 7°21'02" E
N 16°34'06" E

RELOCATE 220' P.C.C.B.
+ (1) SPECIAL END UNIT
+ (1) T.I.A.B.

RELOCATE 860' P.C.C.B.
+ (1) SPECIAL END UNIT
+ (1) T.I.A.B.

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

11/13/2018

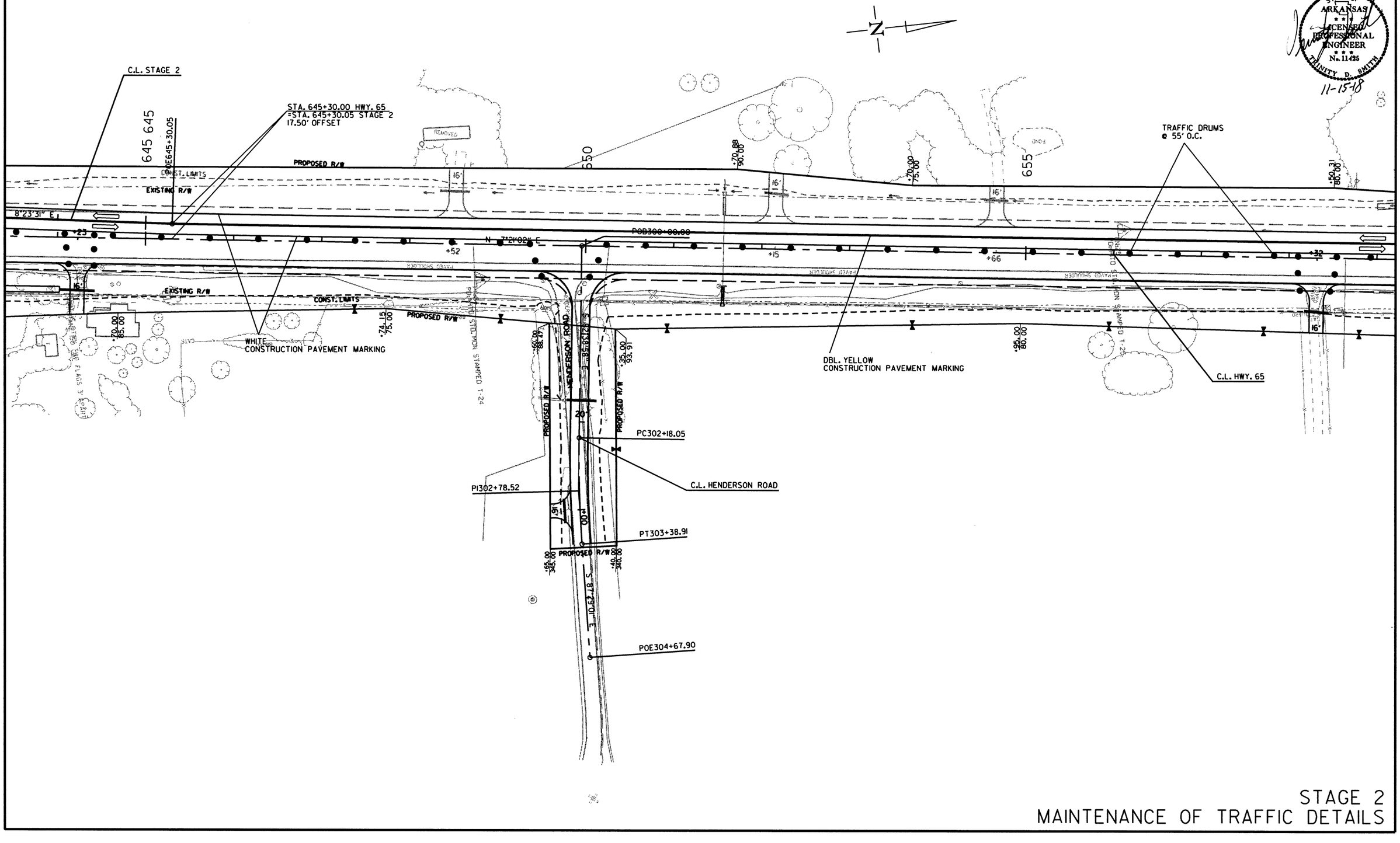
RCA0801.DGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	84	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



RCA0801.DGN 11/13/2018

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	85	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

C.L. NATURAL BRIDGE ROAD

PC660+81.04

PC401+54.26

PT402+76.08

PI402+15.40

PI667+93.64

N 45°32'33" W

N 11°24'02" E

EXISTING R/W

PROPOSED R/W

CONST. LIMITS

P.O.B. 400+00.00

P.O.E. 415+20.00

FOR 15+20.00

PAVED SHOULDER

OPEN STORAGE

POND

BRIDGE

CONCRETE STAMPED T-26

RC.A0801.DGN 11/13/2018

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	86	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

CULTIVATED FIELD

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

2-18'-0" GATES

16'-0" GATE

PAVED SHOULDER

PAVED DRIVE

OPEN STORAGE

PC685+77.53

PT 701+36.96

PI693+95.81

PI703+96.23

N 45°32'33" W

N 88°25'37" W

11/13/2018

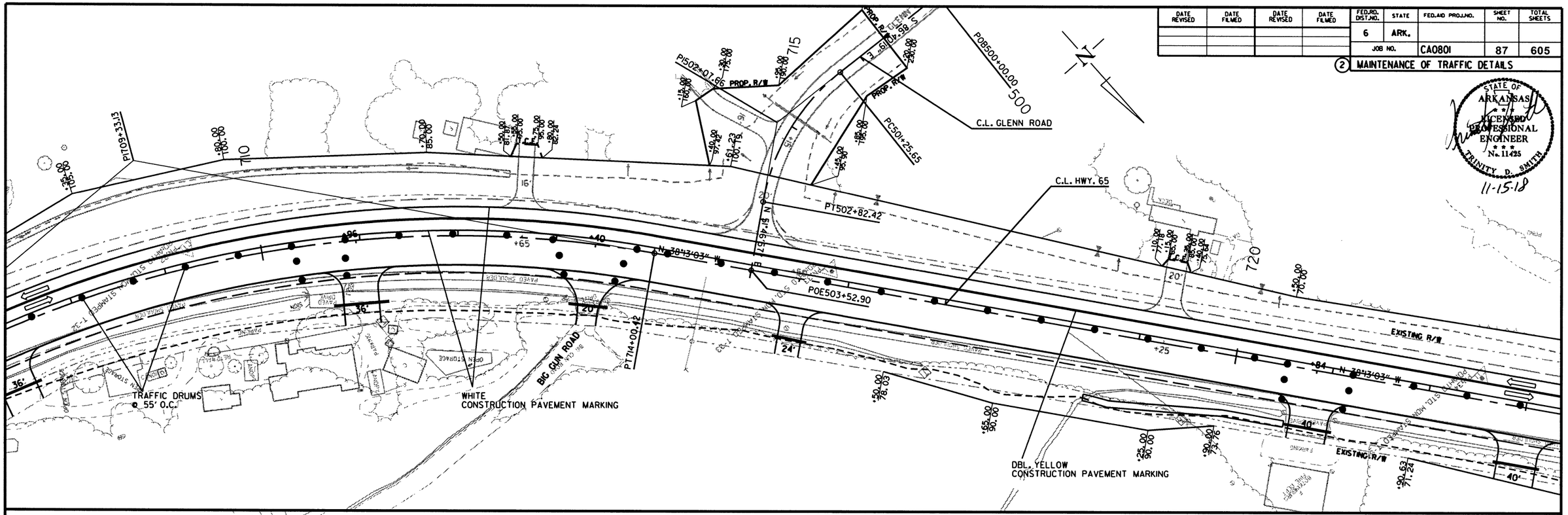
RCA0801.DGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	87	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11435
TRINITY D. SMITH
11-15-18



11/13/2018

RCA0801.DGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	88	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

TRAFFIC DRUMS @ 55' O.C.

C.L. HWY. 65

WHITE CONSTRUCTION PAVEMENT MARKING

EXISTING R/W

N 30°16'30" W

N 51°50'12" W

DITCH BLOCK

PC751+27.4

PROPOSED R/W

CONST. LIMITS

C.L. DRIVEWAY 759+00

C.L. DRIVEWAY 768+00

POB1400+00.00

POB1450+00.00

PC1401+96.68

PI1402+24.06

PT1402+46.78

POE1403+16.34

PC1450+54.19

PI1451+27.73

POE1452+15.75

PT1451+70.52

PT1758+54.73

PT765+64.85

T.C.E.

PAVED SHOULDER

STATE HWY. 65 NORTH STRIPED 1-4D

STATE HWY. 65 NORTH STRIPED 1-3D

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	89	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

TRAFFIC DRUMS @ 55' O.C.

C.L. HWY. 65

WHITE CONSTRUCTION PAVEMENT MARKING

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

PI1774+66.72

PT1774+20.26

PC1N70+57.68

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

TRAFFIC DRUMS @ 55' O.C.

WHITE CONSTRUCTION PAVEMENT MARKING

16'-0" GATE

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

N 35°35'06" W

PC1476+54.56

C.L. DRIVEWAY 799+57

PI1476+08.38

POE1476+92.67

PT1476+36.18

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STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	90	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

PROPOSED R/W
EXISTING R/W
CONST. LIMITS
TRAFFIC DRUMS @ 55' O.C.
WHITE CONSTRUCTION PAVEMENT MARKING
DBL. YELLOW CONSTRUCTION PAVEMENT MARKING
DITCH BLOCK
C.L. HWY. 65
FAIRFAX ROAD
PT807+90.93
PC814+27.28
PI816+55.26
N 70°51'24" W
N 58°22'03" W
STAGE 2
P.I. = 829+89.93
Δ = 38° 15' 38" LT.
D = 5° 00' 00"
T = 397.49'
L = 765.21'
P.C. = 825+92.44
P.T. = 833+57.65
C.L. STAGE 2
PT818+81.44
STA. 825+00.00 HWY. 65 =STA. 825+00.00 STAGE 2 17.50' OFFSET
PC600+72.68
PI601+15.16
C.L. DEAD END ROAD
PI829+39.48
PI829+89.93

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STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	91	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

EXISTING R/W

PROPOSED R/W

CONST. LIMITS

C.L. HWY. 65

C.L. DEAD END ROAD

C.L. STAGE 2

TRAFFIC DRUMS @ 55' O.C.

PT833+07.20

PT833+57.65

PI603+48.43

PT603+90.38

PI604+85.85

PC838+59.27

PC838+66.59

PI846+22.11

PI846+29.43

PI850+53.26

PC850+38.36

PT850+65.24

PC852+21.97

N 29°19'29" W

S 83°22'19" W

STAGE 2
P.I. = 829+89.93
Δ = 38° 15' 38" LT.
D = 5° 00' 00"
T = 397.49'
L = 765.21'
P.C. = 825+92.44
P.T. = 833+57.65

STAGE 2
P.I. = 846+29.43
Δ = 67° 18' 12" RT.
D = 5° 00' 00"
T = 762.84'
L = 1346.07'
P.C. = 838+66.59
P.T. = 852+12.66

605

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STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	92	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 854+00.00 HWY. 65
=STA. 853+88.35 STAGE 2
0.00' OFFSET

C.L. HWY. 65

TRAFFIC DRUMS
@ 55' O.C.

DBL. YELLOW
CONSTRUCTION PAVEMENT MARKING

WHITE
CONSTRUCTION PAVEMENT MARKING

PROPOSED R/W
CONST. LIMITS
EXISTING R/W

C.L. DRIVEWAY 854+56

STAGE 2
P.I. = 846+29.43
Δ = 67° 18' 12" RT.
D = 5° 00' 00"
T = 762.84'
L = 1346.07'
P.C. = 838+66.59
P.T. = 852+12.66

DBL. YELLOW
CONSTRUCTION PAVEMENT MARKING

WHITE
CONSTRUCTION PAVEMENT MARKING

C.L. DRIVEWAY 876+75

C.L. HWY. 65

TRAFFIC DRUMS
@ 55' O.C.

PROPOSED R/W
CONST. LIMITS
EXISTING R/W

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

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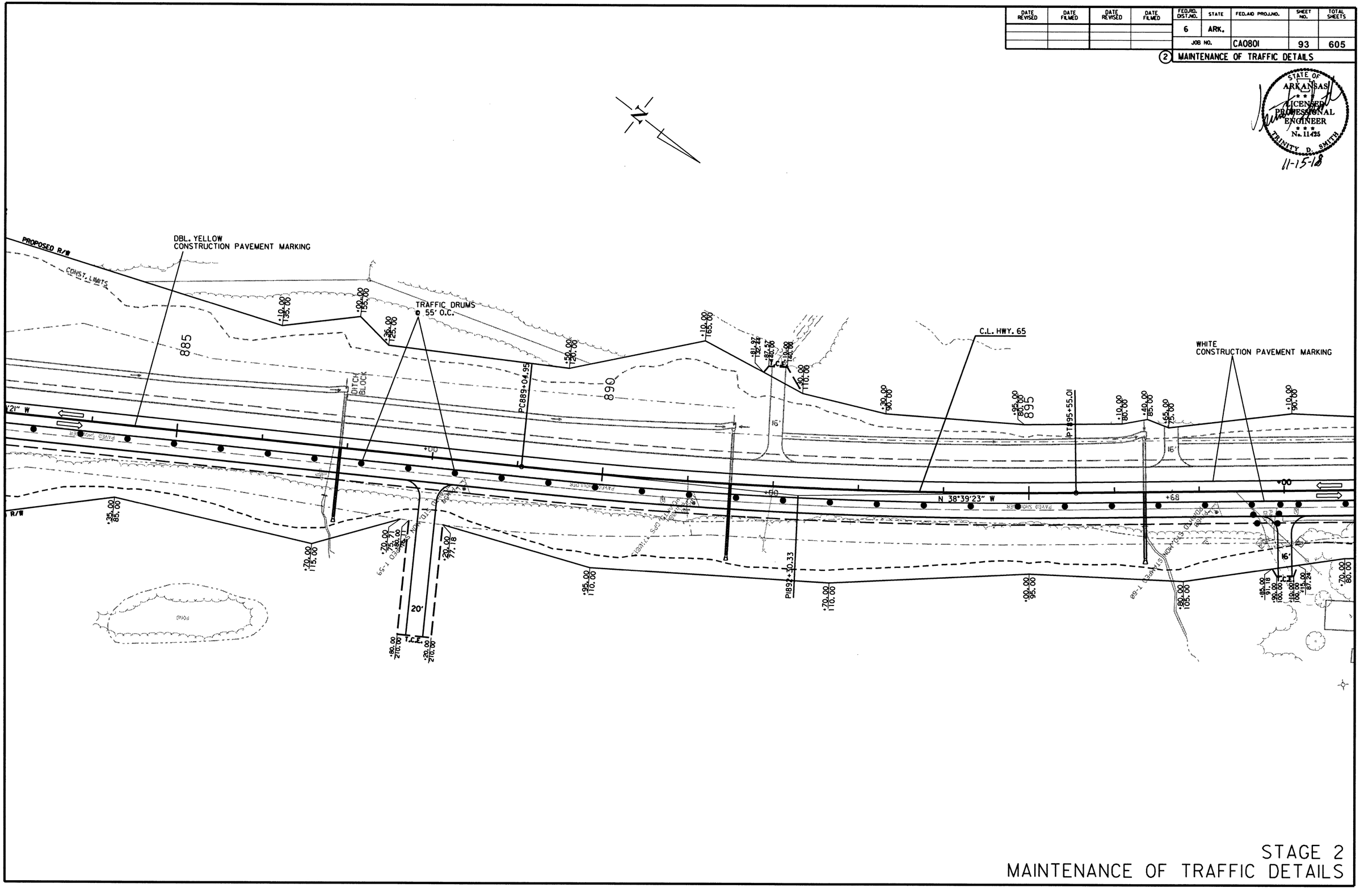
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	93	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



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STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	94	605

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

WHITE CONSTRUCTION PAVEMENT MARKING

C.L. HWY. 65

DBL. YELLOW CONSTRUCTION PAVEMENT MARKING

WHITE CONSTRUCTION PAVEMENT MARKING

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

TRAFFIC DRUMS @ 55' O.C.

POB700+00.00

N 38°39'23" W

POE913+81.33

STA. 912+34.04
END JOB CA0801

PC701+73.45

PI703+53.76

C.L. HWY. 110

705
PI705+19.46
POE705+22.42

N 11°30'07" E
HWY. 110

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS

11/13/2018

RCA0801.DGN

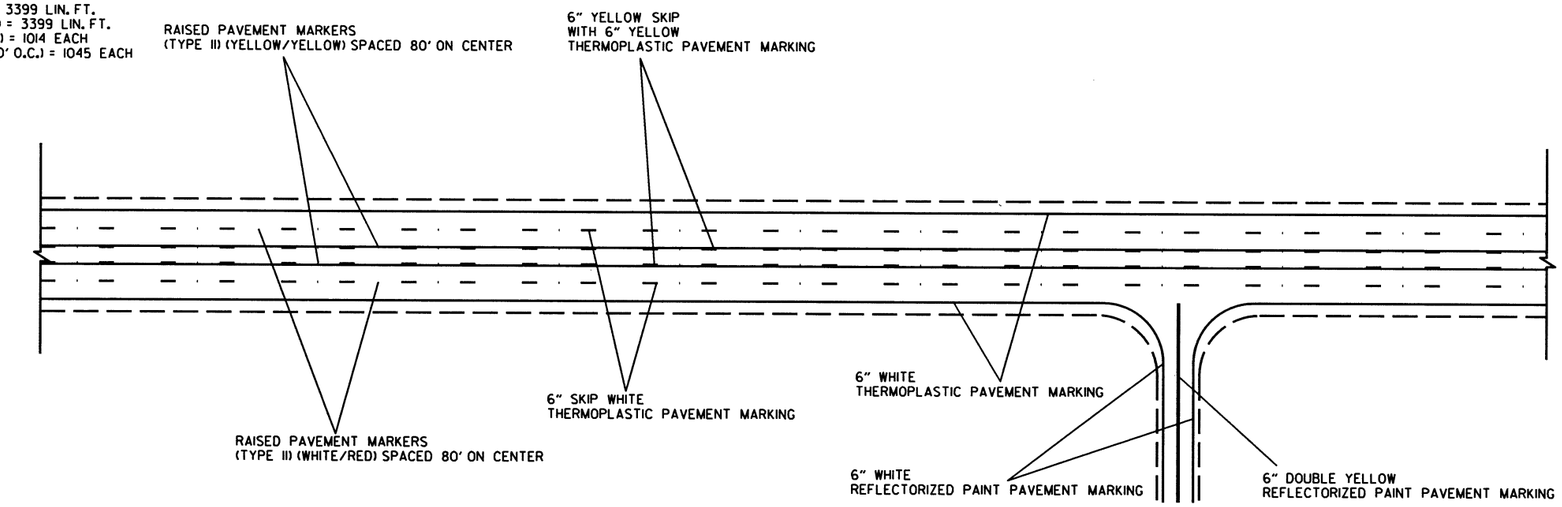
PERMANENT PAVEMENT MARKINGS

THERMOPLASTIC PAVEMENT MARKINGS WHITE (6") = 105500 LIN. FT.
THERMOPLASTIC PAVEMENT MARKINGS YELLOW (6") = 108927 LIN. FT.
THERMOPLASTIC PAVEMENT MARKINGS WHITE (8") = 602 LIN. FT.
THERMOPLASTIC PAVEMENT MARKINGS YELLOW (8") = 1581 LIN. FT.
THERMOPLASTIC PAVEMENT MARKINGS WHITE (12") = 12 LIN. FT.
THERMOPLASTIC PAVEMENT MARKINGS (WORDS) = 6 EACH
THERMOPLASTIC PAVEMENT MARKINGS (ARROWS) = 14 EACH
REFLECTORIZED PAINT PAVEMENT MARKINGS WHITE (6") = 3399 LIN. FT.
REFLECTORIZED PAINT PAVEMENT MARKINGS YELLOW (6") = 3399 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) (80' O.C.) = 1014 EACH
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) (80' O.C.) = 1045 EACH

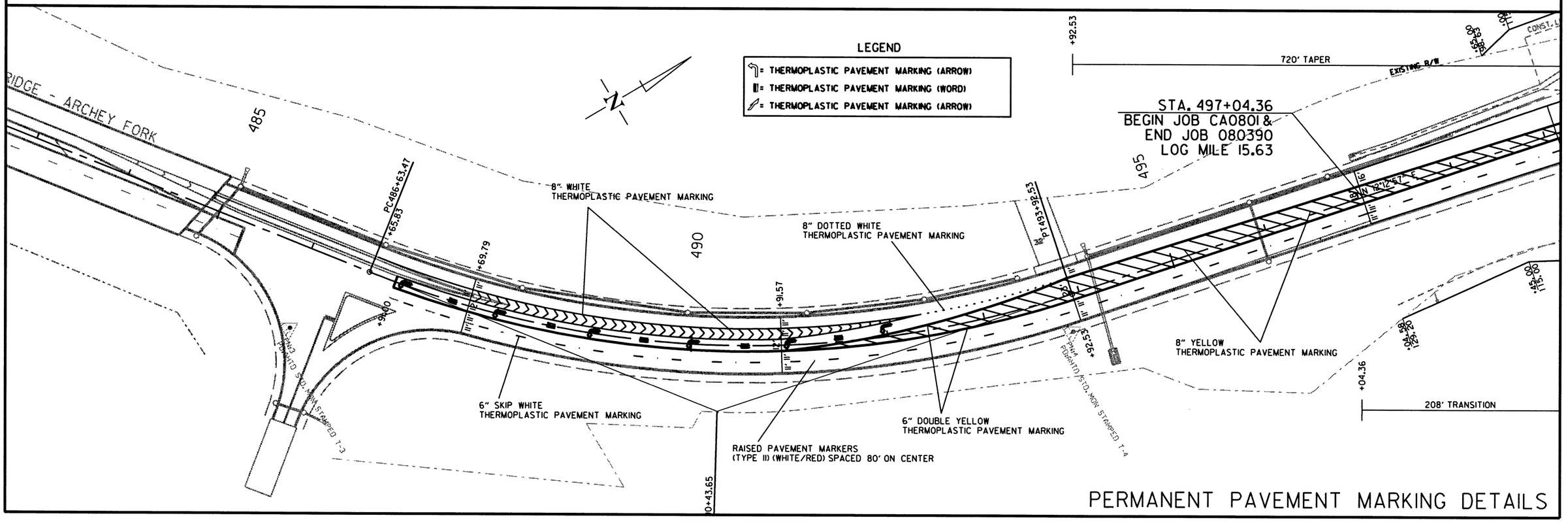
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	95	605

(2) PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



TYPICAL PERMANENT PAVEMENT MARKING LAYOUT



PERMANENT PAVEMENT MARKING DETAILS

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	96	605

(2) PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

720' TAPER

208' TRANSITION

LEGEND

= THERMOPLASTIC PAVEMENT MARKING (ARROW)

8" YELLOW THERMOPLASTIC PAVEMENT MARKING

6" DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING

6" YELLOW SKIP WITH 6" YELLOW THERMOPLASTIC PAVEMENT MARKING

RAISED PAVEMENT MARKERS (TYPE II) (YELLOW/YELLOW) SPACED 80' ON CENTER

6" SKIP WHITE THERMOPLASTIC PAVEMENT MARKING

RAISED PAVEMENT MARKERS (TYPE II) (WHITE/RED) SPACED 80' ON CENTER

6" SKIP WHITE THERMOPLASTIC PAVEMENT MARKING

EXISTING R/W

PROPOSED R/W

CONST. LIMITS

PC 500+77.59

PT 509+21.19

P1505+21.73

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PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	97	605

(2) PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

LEGEND

= THERMOPLASTIC PAVEMENT MARKING (ARROW)

6" YELLOW SKIP WITH 6" YELLOW THERMOPLASTIC PAVEMENT MARKING

6" SKIP WHITE THERMOPLASTIC PAVEMENT MARKING

6" SKIP WHITE THERMOPLASTIC PAVEMENT MARKING WITH RAISED PAVEMENT MARKERS (TYPE II) (WHITE/RED) SPACED 80' ON CENTER

RAISED PAVEMENT MARKERS (TYPE II) (YELLOW/YELLOW) SPACED 80' ON CENTER

720' TAPER

PROPOSED R/W

EXISTING R/W

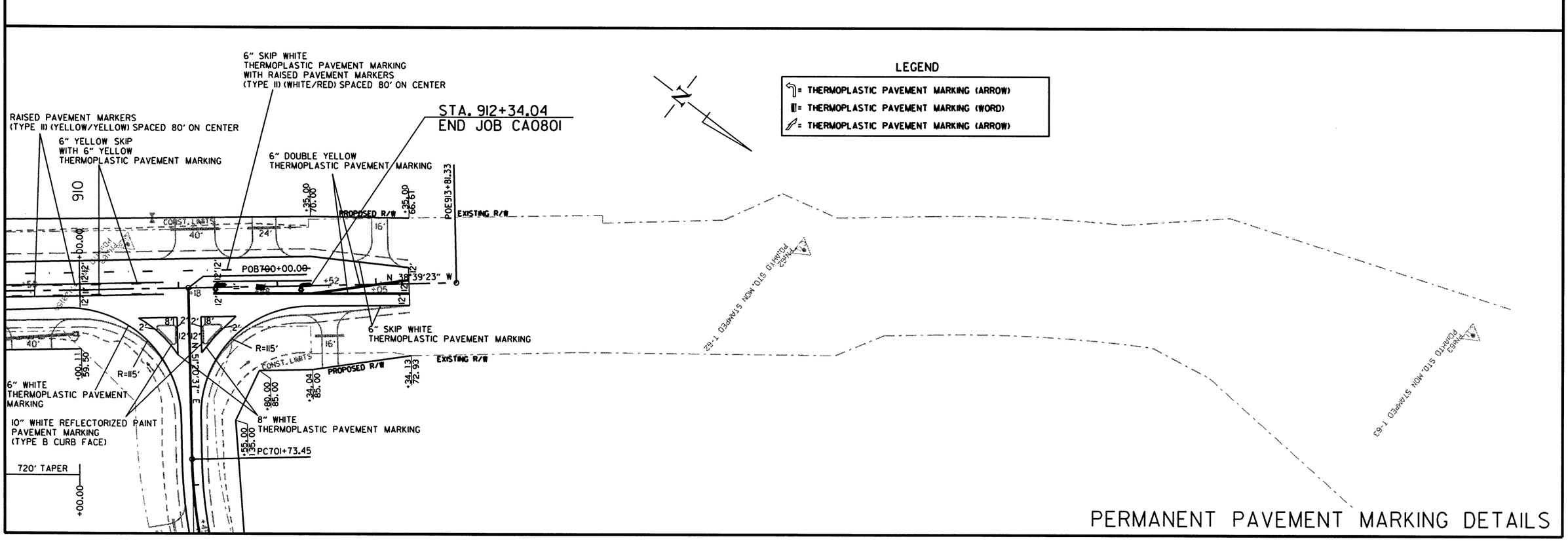
CONST. LIMITS

N 38°39'23" W

PT 895+55.01

T.C.E.

POINTED STD. NON STAMPED T-63



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PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	98	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	STAGE 2	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		CONSTRUCTION PROJECT INFORMATION SIGN UPDATE	VERTICAL PANELS	TRAFFIC DRUMS	FURNISHING & INSTALLING PRECAST CONC. BARRIER	RELOCATING PRECAST CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATION BARRIER	TEMP. IMPACT ATTEN.BARR. (REPAIR)
			LIN. FT. - EACH			NO.	SQ. FT.	EACH			LIN. FT.		EACH	
W20-1	ROAD WORK 1500 FT.	48"x48"	3	3	3	3	48.0							
W20-1	ROAD WORK 1000 FT.	48"x48"	3	3	3	3	48.0							
W20-1	ROAD WORK 500 FT.	48"x48"	3	3	3	3	48.0							
W20-1	ROAD WORK AHEAD	48"x48"	12	12	12	12	192.0							
G20-2	END ROAD WORK	48"x24"	15	15	15	15	120.0							
G20-1	ROAD WORK NEXT 8 MILES	60"x24"	2	2	2	2	20.0							
OM-3L	OBJECT MARKER	12"x36"	6	6	6	6	18.0							
OM-3R	OBJECT MARKER	12"x36"	8	8	8	8	24.0							
R4-1	DO NOT PASS	24"x30"	64	64	64	64	320.0							
W21-5a	RIGHT SHOULDER CLOSED	36"x36"	8	8	8	8	72.0							
W8-1	BUMP	30"x30"	16	16	16	16	100.0							
SPECIAL	CONSTRUCTION PROJECT INFORMATION SIGN	96"X48"	2	2	2	2	64.0							
	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE				10			10						
	VERTICAL PANELS		192	192	192				192					
	TRAFFIC DRUMS		1244	2604	2604					2604				
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		1106		1106						1106			
	RELOCATING PRECAST CONCRETE BARRIER			1106	1106							1106		
	TEMPORARY IMPACT ATTENUATION BARRIER		2	2	4								4	
	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)		2	2	4									4
TOTALS:							1074.0	10	192	2604	1106	1106	4	4

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

THE QUANTITY OF VERTICAL PANELS PROVIDED IN THE CONTRACT IS FOR ONE SIDE OF THE ROADWAY FOR 2 MILES. THIS IS THE MAXIMUM QUANTITY REQUIRED TO ALLOW THE CONTRACTOR TO NOTCH ONE MILE, BACKFILL TO A POINT WHERE THE VERTICAL DIFFERENTIAL IS 4" OR LESS, AND THEN NOTCH ANOTHER ONE-MILE SECTION. THIS IS THE MAXIMUM NUMBER OF VERTICAL PANELS THAT WILL BE PAID FOR. REFER TO SECTION 603.02 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.

CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	STAGE 1	STAGE 2	END OF JOB	REMOVAL OF PERMANENT PAVEMENT MARKINGS	CONSTRUCTION PAVEMENT MARKINGS	CONSTRUCTION PAVEMENT MARKINGS	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS		THERMOPLASTIC PAVEMENT MARKING							REFLECTORIZED PAINT PAVEMENT MARKING		
								TYPE II	TYPE II	6"		8"		12"	WORDS	ARROWS	6"		10"
						ARROWS		(WHITE/RED	(YEL/YEL)	WHITE	YELLOW	WHITE	YELLOW	WHITE			WHITE	YELLOW	WHITE
	LIN. FT. - EACH			LIN. FT.		EACH	LIN. FT.	EACH		LIN. FT.					EACH		LIN. FT.		
REMOVAL OF PERMANENT PAVEMENT MARKINGS	54691			54691															
CONSTRUCTION PAVEMENT MARKINGS	104135	166600			270735														
CONSTRUCTION PAVEMENT MARKINGS (ARROWS)	2	2				4													
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	4961	4672					9633												
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)			1014					1014											
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)			1045						1045										
THERMOPLASTIC PAVEMENT MARKING WHITE (6")			105500							105500									
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")			108927								108927								
THERMOPLASTIC PAVEMENT MARKING WHITE (8")			857									857							
THERMOPLASTIC PAVEMENT MARKING YELLOW (8")			1581										1581						
THERMOPLASTIC PAVEMENT MARKING WHITE (12")			12											12					
THERMOPLASTIC PAVEMENT MARKING (WORDS)			6												6				
THERMOPLASTIC PAVEMENT MARKING (ARROWS)			14													14			
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")			3399														3399		
REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")			3399															3399	
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (10")			255																255
TOTALS:				54691	270735	4	9633	1014	1045	105500	108927	857	1581	12	6	14	3399	3399	255

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

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QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	99	605

(2) QUANTITIES

REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB	WELL	ROCK WALLS	CONCRETE DRIVEWAYS	CONCRETE SLABS	WATER SPIGOT	SATELLITE DISH	CANOPY	SIGN FOUNDATIONS	BRICK COLUMNS	ROCK COLUMNS	GUARDRAIL	BUILDINGS	CATTLE GUARD	SIGNS	PLANTERS
			LIN. FT.	EACH	LIN. FT.	SQ. YD.	SQ. YD.	EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH
500+65		HWY. 65 - LT.						1										
508+10		HWY. 65 - LT.									2						1	
511+55		HWY. 65 - LT.						1										
511+95		HWY. 65 - LT.		1														
512+90		HWY. 65 - RT.									1						2	
522+35		HWY. 65 - LT.										1						
522+70		HWY. 65 - LT.										1						
523+64		HWY. 65 - RT.				10												
526+83		HWY. 65 - LT.				21												
538+40		HWY. 65 - LT.									2						1	
539+45		HWY. 65 - LT.									1						1	
549+75		HWY. 65 - RT.									2						1	1
557+05		HWY. 65 - LT.							1									
571+78		HWY. 65 - RT.				17												
580+00		HWY. 65 - RT.													1			
580+90		HWY. 65 - LT.									2						1	
580+90		HWY. 65 - LT.											1					
590+25		HWY. 65 - RT.								1								
592+90		HWY. 65 - RT.									2						1	
614+35		HWY. 65 - RT.													1			
624+00		HWY. 65 - RT.													1			
640+80		HWY. 65 - RT.									1						1	
644+50		HWY. 65 - RT.																1
651+10		HWY. 65 - LT.									2						1	
658+15		HWY. 65 - RT.			20													
658+25		HWY. 65 - LT.														1		
658+30		HWY. 65 - RT.			20													
663+20	665+60	HWY. 65 - LT.			240													
664+85		HWY. 65 - RT.									3						2	
668+10	670+96	HWY. 65 - LT.												275				
729+85		HWY. 65 - LT.									2						1	
752+04		HWY. 65 - LT.				14												
766+30		HWY. 65 - RT.									2						1	
778+40		HWY. 65 - RT.													1			
791+15		HWY. 65 - RT.					42								1			
792+12		HWY. 65 - RT.									2						1	
799+40		HWY. 65 - LT.									2						1	
848+75	851+86	HWY. 65 - LT.	315															
849+90	850+90	HWY. 65 - LT.			190													
864+35		HWY. 65 - LT.									3						2	
867+35		HWY. 65 - LT.									2						1	
869+35		HWY. 65 - LT.									2						1	1
871+80	871+22	HWY. 65 - RT.	100															
874+25		HWY. 65 - RT.									2						1	
908+15		HWY. 65 - RT.									2						1	
TOTALS:			415	1	470	62	42	2	1	1	37	2	1	275	5	1	22	3

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.

BENCH MARKS

STATION	LOCATION	BENCH MARKS
		EACH
588+66	HEADWALL OF R.C. BOX CULVERT	1
839+35	HEADWALL OF R.C. BOX CULVERT	1
844+78	HEADWALL OF R.C. BOX CULVERT	1
TOTAL:		3

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

STATE OF ARKANSAS
TRINITY D. SMITH
LICENSED PROFESSIONAL ENGINEER
No. 11425
11-15-18

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	100	605

(2) QUANTITIES

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	
497+04	508+00	HWY. 65-LT. & RT.	11	11
509+00	530+00	HWY. 65-LT. & RT.	21	21
532+00	549+00	HWY. 65-LT. & RT.	17	17
550+00	551+00	HWY. 65-LT. & RT.	1	1
552+00	611+00	HWY. 65-LT. & RT.	59	59
612+00	651+00	HWY. 65-LT. & RT.	39	39
654+00	659+00	HWY. 65-LT.	5	5
660+00	663+00	HWY. 65-LT.	3	3
668+00	679+00	HWY. 65-LT. & RT.	11	11
680+00	682+00	HWY. 65-LT. & RT.	2	2
684+00	697+00	HWY. 65-LT. & RT.	13	13
698+00	706+00	HWY. 65-LT. & RT.	8	8
708+00	720+00	HWY. 65-LT. & RT.	12	12
721+00	793+00	HWY. 65-LT. & RT.	72	72
794+00	908+00	HWY. 65-LT. & RT.	114	114
911+00	913+00	HWY. 65-RT.	2	2
TOTALS:			**390**	**390**

REMOVAL AND DISPOSAL OF FENCE AND GATES

STATION	STATION	LOCATION	FENCE	GATES
			LIN. FT.	EACH
515+00	519+62	HWY. 65 - LT.	570	
522+11		HWY. 65 - LT.	48	
533+26	538+05	HWY. 65 - RT.	488	
541+94		HWY. 65 - LT.	35	
543+00		HWY. 65 - LT.	35	
545+90	553+25	HWY. 65 - LT.	735	
557+60	566+95	HWY. 65 - LT.	990	
569+00		HWY. 65 - LT.	48	
574+75		HWY. 65 - LT.	43	
582+05		HWY. 65 - LT.	100	
647+00	649+40	HWY. 65 - RT.	255	
650+05	658+10	HWY. 65 - RT.	850	
658+40	663+26	HWY. 65 - RT.	500	
665+00	665+30	HWY. 65 - RT.	230	
669+00	669+50	HWY. 65 - RT.	50	
674+10	693+40	HWY. 65 - LT.	1950	
705+70	706+70	HWY. 65 - LT.	120	
715+75	718+80	HWY. 65 - LT.	305	
720+00	726+35	HWY. 65 - LT.	290	
723+50	726+10	HWY. 65 - RT.	280	
730+00	733+15	HWY. 65 - LT.	320	
734+10	735+72	HWY. 65 - RT.	222	
782+25	792+60	HWY. 65 - LT.	1120	
828+65		HWY. 65 - RT.		1
856+50	868+00	HWY. 65 - LT.	1200	
873+45	875+55	HWY. 65 - LT.	275	
897+75	900+65	HWY. 65 - RT.	290	
905+75	910+90	HWY. 65 - LT.	550	
907+22				1
TOTALS:			**11899**	**2**

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS (BOX 1 OF 2)

STATION	DESCRIPTION	PIPE CULVERTS	DROP INLETS
		EACH	EACH
500+62	HWY. 65	1	
508+07	HWY. 65	1	
509+58	HWY. 65 - RT.	1	
510+23	HWY. 65 - RT.	1	
511+04	HWY. 65 - LT.	1	
511+65	HWY. 65 - RT.	1	
515+42	HWY. 65 - RT.	1	
516+70	HWY. 65 - RT.	1	
517+05	HWY. 65 - LT.	1	
517+30	HWY. 65 - RT.	1	
517+88	HWY. 65 - RT.	1	
518+94	HWY. 65 - RT.	1	
519+48	HWY. 65 - LT.	1	
520+04	HWY. 65 - LT.	1	
521+06	HWY. 65	1	
521+77	HWY. 65 - RT.	1	
522+34	HWY. 65 - RT.	1	
522+49	HWY. 65 - LT.	1	
523+63	HWY. 65 - RT.	1	
525+23	HWY. 65 - LT.	1	
526+30	HWY. 65 - RT.	1	
526+83	HWY. 65 - LT.	1	
526+95	HWY. 65 - RT.	1	
528+19	HWY. 65	1	
529+15	HWY. 65 - RT.	1	
531+48	HWY. 65 - RT.	1	
531+86	HWY. 65 - LT.	1	
539+10	HWY. 65 - LT.	1	
537+42	HWY. 65 - LT.	1	
538+38	HWY. 65 - RT.	1	
539+14	HWY. 65 - RT.	1	
540+23	HWY. 65 - RT.	1	
540+58	HWY. 65 - LT.	1	
541+61	HWY. 65 - LT.	1	
542+42	HWY. 65 - LT.	1	
542+96	HWY. 65 - RT.	1	
543+92	HWY. 65 - LT.	1	
545+53	HWY. 65 - RT.	1	
550+64	HWY. 65 - RT.	1	
553+77	HWY. 65 - RT.	1	
565+58	HWY. 65 - LT.	1	
568+50	HWY. 65 - LT.	1	
579+39	HWY. 65	1	
580+30	HWY. 65 - LT.	1	
582+79	HWY. 65 - LT.	1	
585+78	HWY. 65 - LT.	1	
586+18	HWY. 65 - RT.	1	
590+60	HWY. 65 - RT.	1	
593+10	HWY. 65 - RT.	1	
597+30	HWY. 65	1	
611+92	HWY. 65 - RT.	1	
610+81	HWY. 65 - RT.	1	
612+55	HWY. 65 - RT.	1	
613+85	HWY. 65 - RT.	1	
641+21	HWY. 65 - RT.	1	
644+23	HWY. 65 - RT.	1	
652+15	HWY. 65 - RT.	1	
658+32	HWY. 65 - RT.	1	
663+18	HWY. 65 - LT.	1	
SUBTOTALS (BOX 1 OF 2):		**59**	

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

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS (BOX 2 OF 2)

STATION	DESCRIPTION	PIPE CULVERTS	DROP INLETS
		EACH	EACH
664+50	HWY. 65 - LT.	1	
664+86	HWY. 65 - RT.	1	
667+92	HWY. 65 - RT.	1	
673+89	HWY. 65 - LT.	1	
679+21	HWY. 65 - LT.	1	
685+54	HWY. 65 - RT.	1	
688+37	HWY. 65 - LT.	1	
698+56	HWY. 65 - RT.	1	
702+87	HWY. 65 - LT.	1	
704+88	HWY. 65 - LT.	1	
705+45	HWY. 65 - LT.	1	
706+20	HWY. 65 - LT.	1	
706+70	HWY. 65 - RT.	1	
706+93	HWY. 65 - LT.	1	
710+60	HWY. 65 - RT.	1	
713+40	HWY. 65 - RT.	1	
720+84	HWY. 65 - RT.	1	
724+28	HWY. 65 - RT.	1	
728+76	HWY. 65 - LT.	1	
752+04	HWY. 65 - LT.	1	
770+69	HWY. 65 - LT.	1	
775+72	HWY. 65 - LT.	1	
777+46	HWY. 65 - LT.	1	
781+18	HWY. 65 - RT.	1	
782+02	HWY. 65 - LT.	1	
783+16	HWY. 65 - RT.	1	
788+32	HWY. 65 - RT.	1	
791+68	HWY. 65 - RT.	1	
792+56	HWY. 65 - RT.	1	
793+55	HWY. 65 - LT.	1	
797+27	HWY. 65 - LT.	1	
803+48	HWY. 65 - LT.	1	
811+85	HWY. 65 - RT.	1	
836+54	HWY. 65 - LT.	1	
851+55	HWY. 65 - RT.	1	
851+90	HWY. 65 - LT.	1	1
854+56	HWY. 65 - LT.	1	
863+71	HWY. 65 - RT.	1	
866+62	HWY. 65 - RT.	1	
868+23	HWY. 65 - LT.	1	
872+08	HWY. 65 - LT.	1	
873+80	HWY. 65 - LT.	1	
896+36	HWY. 65	1	
901+20	HWY. 65 - LT.	1	
902+74	HWY. 65 - LT.	1	
907+22	HWY. 65 - RT.	1	
907+84	HWY. 65 - LT.	1	
908+60	HWY. 65 - RT.	1	
912+52	HWY. 65 - RT.	1	
101+98	SKYHILL DRIVE - RT.	1	
201+00	ISOM LANE - RT.	1	
201+53	ISOM LANE - LT.	1	
201+53	ISOM LANE - RT.	1	
201+84	ISOM LANE - LT.	1	
301+75	HENDERSON ROAD	1	
502+25	GLENN ROAD - RT.	1	
SUBTOTALS (BOX 1 OF 2):		**59**	
SUBTOTALS (BOX 2 OF 2):		**56**	**1**
TOTALS:		**115**	**1**

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

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

11/13/2018

RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	101	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

SOIL LOG (BOX 1 OF 2)

STATION	LATITUDE			LONGITUDE			LOCATION	DEPTH	LIQUID LIMIT	PLASTICITY INDEX	AASHTO CLASSIFICATION	COLOR
	DEG	MIN	SEC	DEG	MIN	SEC		FEET				
500+00	35	36	30.10	92	27	24.00	16RT	0-5	40	22	A-6(17)	BROWN
500+00	35	36	30.10	92	27	23.90	28RT	0-5	32	15	A-6(10)	BROWN
500+00	35	36	30.00	92	27	23.80	36RT	0-5	41	22	A-7-6(17)	BROWN
507+00	35	36	36.70	92	27	24.30	06LT	0-5	19	2	A-4(0)	BR/GR
507+00	35	36	36.70	92	27	24.50	20LT	0-3.5Z	19	3	A-4(0)	BR/GR
507+00	35	36	36.70	92	27	24.60	31LT	0-2.5Z	ND	NP	A-4(0)	BROWN
515+00	35	36	43.90	92	27	29.10	19RT	0-5	24	8	A-4(1)	BROWN
515+00	35	36	44.00	92	27	29.00	29RT	0-5	21	6	A-4(0)	BROWN
515+00	35	36	44.00	92	27	28.80	46RT	0-5	22	8	A-4(1)	BROWN
523+00	35	36	50.50	92	27	34.00	06LT	0-5	29	12	A-6(6)	BR/GR
523+00	35	36	50.40	92	27	34.10	16LT	0-3Z	19	5	A-4(0)	BR/GR
523+00	35	36	50.40	92	27	34.30	46LT	0-5	31	15	A-6(6)	BROWN
523+00	35	36	50.40	92	27	34.30	46LT	0-5	29	16	A-4(2)	BROWN
531+00	35	36	58.40	92	27	34.40	17RT	0-5	27	12	A-6(5)	RD/BR
531+00	35	36	58.40	92	27	34.20	30RT	0-5	49	24	A-7-6(19)	RD/BR
531+00	35	36	58.40	92	27	34.10	47RT	0-5	48	26	A-7-6(18)	RD/BR
539+00	35	37	5.90	92	27	32.20	06LT	0-5	28	13	A-6(4)	BR/GR
539+00	35	37	6.00	92	27	32.30	17LT	0-5	33	17	A-6(10)	BR/GR
539+00	35	37	6.00	92	27	32.50	33LT	0-1.5Z	22	4	A-4(0)	BR/GR
543+00	35	37	13.60	92	27	29.30	18RT	0-5	39	20	A-6(11)	RD/BR
543+00	35	37	13.50	92	27	29.10	30RT	0-5	33	15	A-6(6)	BROWN
543+00	35	37	13.50	92	27	28.80	55RT	0-3Z	34	16	A-6(9)	BROWN
555+00	35	37	21.30	92	27	26.90	06LT	0-3.5Z	18	3	A-4(0)	BR/GR
555+00	35	37	21.40	92	27	27.10	19LT	0-3.5Z	17	2	A-4(0)	GRAY
555+00	35	37	21.40	92	27	27.20	33LT	0-3Z	23	6	A-4(0)	BROWN
563+00	35	37	29.50	92	27	25.90	18RT	0-5	30	13	A-6(5)	BROWN
563+00	35	37	29.60	92	27	25.80	28RT	0-5	38	19	A-6(9)	BROWN
563+00	35	37	29.60	92	27	25.60	46RT	0-5	47	22	A-7-6(20)	BROWN
563+00	35	37	29.60	92	27	25.50	46RT	0-5	52	30	A-7-6(24)	BROWN
571+00	35	37	37.00	92	27	27.00	08LT	0-5	39	19	A-6(11)	BROWN
571+00	35	37	37.00	92	27	27.00	28LT	0-5	37	16	A-6(11)	BR/GR
571+00	35	37	37.00	92	27	27.20	31LT	0-5	26	11	A-6(1)	BROWN
579+00	35	37	45.20	92	27	26.70	16RT	0-5	26	12	A-6(4)	BR/GR
579+00	35	37	45.20	92	27	26.60	27RT	0-5	24	11	A-6(3)	BR/GR
579+00	35	37	45.20	92	27	26.50	38RT	0-3Z	34	16	A-6(7)	BR/GR
587+00	35	37	51.40	92	27	32.00	06LT	0-5	33	15	A-6(6)	BR/GR
587+00	35	37	51.30	92	27	32.10	18LT	0-5	34	17	A-6(7)	BR/GR
587+00	35	37	51.20	92	27	32.20	33LT	0-5	40	22	A-6(14)	BR/GR
595+00	35	37	58.90	92	27	36.20	18RT	0-5	32	14	A-6(7)	BR/GR
595+00	35	37	58.90	92	27	36.10	29RT	0-5	24	10	A-4(1)	BR/GR
595+00	35	37	59.00	92	27	36.00	41RT	0-5	49	28	A-7-6(23)	BROWN
603+00	35	38	6.30	92	27	37.80	07LT	0-5	29	14	A-6(6)	BR/GR
603+00	35	38	6.30	92	27	37.90	17LT	0-5	22	8	A-4(1)	BROWN
603+00	35	38	6.30	92	27	38.00	25LT	0-5	52	29	A-7-6(22)	BROWN
611+00	35	38	13.80	92	27	40.70	06RT	0-4.5Z	22	8	A-4(0)	BR/GR
611+00	35	38	13.80	92	27	40.70	20RT	0-5	25	12	A-6(3)	BR/GR
611+00	35	38	13.90	92	27	40.50	31RT	0-5	25	11	A-6(1)	BR/GR
619+00	35	38	20.50	92	27	43.20	06LT	0-4.5Z	30	16	A-6(6)	BR/GR
619+00	35	38	20.50	92	27	43.30	19LT	0-5	34	19	A-6(9)	BR/GR
619+00	35	38	20.50	92	27	43.40	26LT	0-5	35	18	A-6(12)	BROWN
627+00	35	38	28.60	92	27	40.80	19RT	0-2Z	ND	NP	A-2-4(0)	GRAY
627+00	35	38	28.50	92	27	40.70	28RT	0-5	24	10	A-4(3)	BR/GR
627+00	35	38	28.50	92	27	40.70	36RT	0-5	51	27	A-7-6(27)	BR/GR
635+00	35	38	37.00	92	27	38.30	06LT	0-5	21	7	A-4(1)	BROWN
635+00	35	38	37.00	92	27	38.40	19LT	0-5	24	10	A-4(2)	BR/GR
635+00	35	38	37.00	92	27	38.50	26LT	0-5	22	9	A-4(1)	BROWN
643+00	35	38	44.30	92	27	36.60	19RT	0-4Z	20	5	A-4(0)	BROWN
643+00	35	38	44.30	92	27	36.50	28RT	0-2.5Z	ND	NP	A-2-4(0)	BR/GR
643+00	35	38	44.30	92	27	36.40	36RT	0-2.5Z	ND	NP	A-2-4(0)	BROWN
651+00	35	38	52.40	92	27	35.70	08LT	0-5	17	3	A-4(0)	GRAY
651+00	35	38	52.40	92	27	35.90	18LT	0-5	22	9	A-4(3)	GRAY
651+00	35	38	52.50	92	27	36.00	32LT	0-5	ND	NP	A-4(0)	BROWN
651+00	35	38	52.50	92	27	36.00	32LT	0-5	21	8	A-4(1)	BROWN
659+00	35	39	0.20	92	27	34.30	18RT	0-5	25	10	A-4(3)	BROWN
659+00	35	39	0.20	92	27	34.10	27RT	0-5	20	5	A-4(0)	BR/GR
659+00	35	39	0.10	92	27	34.00	37RT	0-5	22	7	A-4(0)	BROWN
659+00	35	39	0.10	92	27	34.00	37RT	0-5	28	14	A-6(4)	BROWN
667+00	35	39	7.80	92	27	34.70	09LT	0-5	20	6	A-4(0)	BR/GR
667+00	35	39	7.80	92	27	34.80	18LT	0-5	21	7	A-4(0)	BR/GR
667+00	35	39	7.80	92	27	34.90	26LT	0-5	32	16	A-6(3)	BROWN
675+00	35	39	14.70	92	27	39.60	18RT	0-5	22	8	A-4(1)	BROWN
675+00	35	39	14.80	92	27	39.60	30RT	0-3.5Z	22	7	A-4(1)	BROWN
675+00	35	39	14.90	92	27	39.50	38RT	0-5	ND	NP	A-2-4(0)	BROWN
683+00	35	39	20.20	92	27	47.10	06LT	0-5	27	13	A-6(13)	RD/BR
683+00	35	39	20.20	92	27	47.10	17LT	0-5	21	7	A-4(0)	RD/BR
683+00	35	39	21.10	92	27	47.20	30LT	0-5	27	11	A-6(3)	RD/BR
691+00	35	39	25.10	92	27	53.40	19RT	0-5	28	11	A-6(4)	BROWN
691+00	35	39	25.20	92	27	53.30	30RT	0-4Z	28	13	A-6(5)	BROWN
691+00	35	39	25.30	92	27	53.20	39RT	0-5	33	16	A-6(6)	BROWN
700+00	35	39	27.90	92	28	4.50	06LT	0-5	27	11	A-6(3)	BR/GR

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATION OF THE SAMPLE, AND FROM SURFACE INDICATIONS ARE TYPICAL FOR THE LIMITS SHOWN. THESE DATA ARE SHOWN FOR INFORMATION ONLY. THE STATE WILL NOT BE RESPONSIBLE FOR VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATIONS.
Z- AUGER REFUSAL
NP - NON-PLASTIC
ND - NOT DETERMINABLE

SOIL LOG (BOX 2 OF 2)

STATION	LATITUDE			LONGITUDE			LOCATION	DEPTH	LIQUID LIMIT	PLASTICITY INDEX	AASHTO CLASSIFICATION	COLOR
	DEG	MIN	SEC	DEG	MIN	SEC		FEET				
700+00	35	39	27.80	92	28	4.50	17LT	0-5	23	9	A-4(1)	BROWN
700+00	35	39	27.70	92	28	4.50	26LT	0-5	23	10	A-4(1)	BR/GR
707+00	35	39	26.70	92	28	12.80	06RT	0-4Z	ND	NP	A-2-4(0)	BROWN
707+00	35	39	28.70	92	28	12.80	18RT	0-3.5Z	ND	NP	A-2-4(0)	BROWN
715+00	35	39	33.00	92	28	20.40	07LT	0-5	20	7	A-4(1)	BR/GR
715+00	35	39	32.90	92	28	20.50	17LT	0-5	25	12	A-6(3)	BR/GR
715+00	35	39	32.80	92	28	20.60	29LT	0-5	24	10	A-4(3)	BR/GR
723+00	35	39	38.90	92	28	26.10	17 RT	0-5	18	4	A-4(0)	BR/GR
723+00	35	39	39.00	92	28	25.90	27 RT	0-5	27	14	A-6(16)	BROWN
723+00	35	39	39.10	92	28	25.80	40 RT	0-2.5	22	9	A-4(2)	BROWN
731+00	35	39	45.70	92	28	32.90	08 LT	0-5	ND	NP	A-2-4(0)	BROWN
731+00	35	39	45.60	92	28	33.00	18 LT	0-5	17	3	A-4(0)	BR/GR
731+00	35	39	45.50	92	28	33.10	28 LT	0-5	25	13	A-6(4)	BROWN
739+00	35	39	52.10	92	28	37.50	17 RT	0-5	35	19	A-6(12)	BROWN
739+00	35	39	52.20	92	28	37.40	28 RT	0-5	49	29	A-7-6(26)	BROWN
739+00	35	39	52.20	92	28	37.30	38 RT	0-5	42	24	A-7-6(16)	BROWN
739+00	35	39	52.20	92	28	37.30	38 RT	0-5	68	42	A-7-6(39)	BROWN
748+00	35	40	0.10	92	28	43.60	07 LT	0-5	38	19	A-6(12)	BROWN
748+00	35	40	0.00	92	28	43.70	14 LT	0-5	24	9	A-4(2)	BROWN
748+00	35	40	59.90	92	28	43.80	28 LT	0-5	54	29	A-7-6(25)	BROWN
755+00	35	40	5.90	92	28	47.70	07 RT	0-5	22	8	A-4(1)	BROWN
755+00	35	40	6.00	92	28	47.50	28 RT	0-5	20	7	A-4(1)	BROWN
755+00	35	40	6.10	92	28	47.50	35 RT	0-5	26	14	A-6(5)	BROWN
763+00	35	40	11.40	92	28	54.30	08LT	0-5	23	9	A-2-4(0)	BR/GR
763+00	35	40	11.40	92	28	54.40	18LT	0-4.5Z	25	12	A-6(1)	BR/GR
763+00	35	40	11.30	92	28	54.40	26LT	0-3Z	30	15	A-6(5)	BR/GR
772+00	35	40	17.20	92	29	2.20	07RT	0-5	29	12	A-6(3)	GRAY
772+00	35	40	17.30	92	29	2.20	18RT	0-5	20	7	A-4(0)	BR/GR
772+00	35	40	17.30	92	29	2.10	27RT	0-5	37	20	A-6(9)	BR/GR
780+00	35	40	23.20	92	38	15.60	06LT	0-4Z	22	9	A-4(1)	BR/GR
780+00	35	40	23.10	92	38	9.40	17LT	0-3.5Z	19	4	A-4(0)	BR/GR
780+00	35	40	23.00	92	38	9.50	31LT	0-3Z	18	4	A-4(0)	BR/GR
788+00	35	40	29.60	92	29	14.90	07RT	0-5	53	27	A-7-6(26)	BROWN
788+00	35	40	29.70	92	29	14.70	19RT	0-5	41	20	A-7-6(8)	BROWN
788+00	35	40	29.80	92	29	14.60	37RT	0-5	66	36	A-7-5(42)	BR/GR
788+00	35	40	29.80	92	29	14.60	37RT	0-5	73	46	A-7-6(50)	BR/GR
796+00	35	40	36.70	92	29	21.40	06LT	0-5	29	16	A-6(6)	BR/GR
796+00	35	40	36.60	92	29	21.50	19LT	0-5	24	11	A-6(1)	BR/GR
796+00	35	40	36.50	92	29	21.60	30LT	0-5	35	19	A-6(10)	BR/GR
804+00	35	40	41.50	92	29	27.40	16RT	0-5	24	11	A-6(2)	BROWN
812+00	35	40	44.30	92	29	36.20	05LT	0-5	35	16	A-6(6)	BR/GR
812+00	35	40	44.30	92	29	36.30	16LT	0-5	35	15	A-6(10)	BR/GR
812+00	35	40	44.20	92	29	36.30	26LT	0-5	48	22	A-7-6(23)	GRAY
820+00	35	40	47.10	92	29	44.40	18RT	0-5	25	12	A-6(3)	BR/GR
820+00	35	40	47.20	92	29	44.30	26RT	0-5	21	7	A-4(0)	BR/GR
828+00	35	40	51.20	92	29	53.50	06LT	0-5	28	12	A-6(5)	BR/GR
828+00	35	40	51.10	92	29	53.50	18LT	0-5	24	7	A-4(1)	BR/GR
828+00	35	40	51.10	92	29	53.50	26LT	0-5	48	22	A-7-6(23)	BROWN
828+00	35	40	51.10	92	29	53.50	26LT	0-5	52	28	A-7-6(15)	BROWN
836+00	35	40	51.30	92	30	3.60	06RT	0-5	29	13	A-6(5)	BR/GR
836+00	35	40	51.40	92	30	3.60	18RT	0-5	24	8	A-4(1)	BROWN
836+00	35	40	51.50	92	30	3.60	26RT	0-5	21	1	A-4(0)	BR/GR
844+00	35	40	51.60	92	30	12.60	06LT	0-5	38	17	A-6(13)	BROWN
844+00	35	40	51.60	92	30	12.70	16LT	0-5	36	17	A-6(10)	BROWN
844+00	35	40	51.50	92	30	12.70	25LT	0-5	50	27	A-7-6(24)	BROWN
853+00	35	40	57.40	92	30	20.60	06RT	0-5	28	14	A-6(5)	BR/GR
853+00	35	40	57.40	92	30	20.50	18RT	0-5	27	15	A-6(5)	BROWN
853+00	35	40	57.40	92	30	20.40	26RT	0-5	27	14	A-6(3)	BROWN
860+00	35	41	3.40	92	30	25.00	06LT	0-5	20	8	A-4(1)	BR/GR
860+00	35	41	3.30	92	30	25.10	19LT	0-5	22	12	A-6(3)	BR/GR
860+00	35	41	3.30	92	30	25.20	30LT	0-5	32	18	A-6(8)	BROWN
868+00	35	41	11.20	92	30	27.60	06RT	0-5	24	11	A-6(3)	GRAY
868+00	35	41	11.20	92	30	27.50	16RT	0-5	22	9	A-4(3)	BR/GR
868+00	35	41	11.20	92	30	27.40	26RT	0-5	29	15	A-6(8)	BROWN
876+00	35	41	18.30	92	30	30.80	06LT	0-2.5Z	20	5	A-4(0)	GRAY
876+00	35	41	18.30	92	30	30.90	18LT	0-5	23	10	A-4(2)	BR/GR
876+00	35	41	18.20	92	30	31.00	25LT	0-2Z	24	9	A-4(0)	GRAY
884+00	35	41	26.80	92	30	37.20	07RT	0-4.5Z	24	9	A-4(2)	GRAY
884+00	35	41	26.90	92	30	37.10	18RT	0-4.5Z	35	20	A-6(12)	GRAY
884+00	35	41	26.90	92	30	37.00	29RT	0-4Z	30	16	A-6(7)	GRAY
892+00	35	41	31.80	92	30	41.40	06LT	0-5	23	10	A-4(2)	GRAY
892+00	35	41	31.70	92	30	41.50	17LT	0-5	55	32	A-7-6(27)	BR/GR
892+00	35	41	31.60	92	30	41.60	26LT	0-5	22	7	A-4(1)	BR/GR
892+00	35	41	31.60	92	30	41.60	26LT	0-5	56	32	A-7-6(31)	BROWN
900+00	35	41	37.80	92	30	47.00	06RT	0-2Z	ND	NP	A-2-4(0)	GRAY
900+00	35	41	37.90	92	30	46.90	16RT	0-5	30	14	A-6(7)	BR/GR
900+00	35	41	37.90	92	30	46.80	26RT	0-5	32	16	A-6(7)	BR/GR
908+00	35	41	44.10	92	30	53.40	09LT	0-4Z	20	6	A-4(0)	BR/GR
908+00	35	41	44.00	92	30	53.50	20LT	0-5	27	10	A-4(2)	BR/GR
908+00	35	41	43.90	92	30	53.60	31LT	0-5	19	5	A-4(0)	BR/GR

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATION OF THE SAMPLE, AND FROM SURFACE INDICATIONS ARE TYPICAL FOR THE LIMITS SHOWN. THESE DATA ARE SHOWN FOR INFORMATION ONLY. THE STATE WILL NOT BE RESPONSIBLE FOR VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATIONS.
Z- AUGER REFUSAL
NP - NON-PLASTIC
ND - NOT DETERMINABLE

11/13/2018

RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
01-09-19				6	ARK.			
				JOB NO.		CA0801	102	605

(2) QUANTITIES

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT	* SOIL STABILIZATION
			CU. YD.		TON
ENTIRE	PROJECT	STAGE 1-MAIN LANES	329780	157953	
ENTIRE	PROJECT	STAGE 2-MAIN LANES	128429	205345	
ENTIRE	PROJECT	APPROACHES	1325	18505	
ENTIRE	PROJECT	SKYHILL DRIVE	1162		
ENTIRE	PROJECT	ISOM LANE	4274		
ENTIRE	PROJECT	HENDERSON ROAD	174	342	
ENTIRE	PROJECT	NATURAL BRIDGE ROAD	155	234	
ENTIRE	PROJECT	GLENN ROAD	238	2101	
ENTIRE	PROJECT	DEAD END ROAD	313	1507	
ENTIRE	PROJECT	HWY. 110	455	194	
ENTIRE	PROJECT	DRIVEWAY 568+50	1388	48	
ENTIRE	PROJECT	DRIVEWAY 623+00	19	1494	
ENTIRE	PROJECT	DRIVEWAY 628+00	1639	20	
ENTIRE	PROJECT	DRIVEWAY 631+35	104	49	
ENTIRE	PROJECT	DRIVEWAY 759+00	1127	31	
ENTIRE	PROJECT	DRIVEWAY 768+00	69	718	
ENTIRE	PROJECT	DRIVEWAY 799+57	19	890	
ENTIRE	PROJECT	DRIVEWAY 848+50	226	88	
ENTIRE	PROJECT	DRIVEWAY 852+00	335	75	
ENTIRE	PROJECT	DRIVEWAY 854+56	16	3082	
ENTIRE	PROJECT	DRIVEWAY 876+75	857	170	
521+18		CONSTRUCT OUTLET	205		
547+26		CONSTRUCT OUTLET	5		
552+85		CONSTRUCT OUTLET	5		
579+50		CONSTRUCT OUTLET	310		
* ENTIRE	PROJECT	TO BE USED IF AND WHERE			50
		DIRECTED BY THE ENGINEER			
TOTALS:			472629	392846	50

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

EROSION CONTROL MATTING

STATION	STATION	LOCATION	LENGTH	CLASS 3
			LIN. FT.	SQ. YD.
530+25.00	531+33.00	HWY. 65 - RT.	108.00	96.00
543+11.00	544+24.00	HWY. 65 - RT.	113.00	100.44
544+10.00	544+80.00	HWY. 65 - LT.	70.00	62.22
544+54.00	545+39.00	HWY. 65 - RT.	85.00	75.56
545+67.00	549+75.00	HWY. 65 - RT.	408.00	362.67
572+50.00	573+62.00	HWY. 65 - RT.	112.00	99.56
588+00.00	588+59.00	HWY. 65 - RT.	59.00	52.44
591+00.00	597+13.14	HWY. 65 - LT.	613.14	545.01
602+08.00	602+84.56	HWY. 65 - LT.	76.56	68.05
650+30.00	654+85.17	HWY. 65 - RT.	455.17	404.60
666+00.00	666+60.00	HWY. 65 - LT.	60.00	53.33
680+00.00	684+00.00	HWY. 65 - RT.	400.00	355.56
709+00.00	710+66.00	HWY. 65 - RT.	166.00	147.56
711+25.00	713+19.00	HWY. 65 - RT.	194.00	172.44
713+61.00	715+00.00	HWY. 65 - RT.	139.00	123.56
767+41.23	769+28.00	HWY. 65 - LT.	186.77	166.02
783+50.00	783+91.00	HWY. 65 - RT.	41.00	36.44
789+05.00	791+48.00	HWY. 65 - RT.	243.00	216.00
791+88.00	792+27.00	HWY. 65 - RT.	39.00	34.67
792+84.00	794+44.00	HWY. 65 - RT.	160.00	142.22
806+00.00	807+39.85	HWY. 65 - LT.	139.85	124.31
832+50.00	834+90.00	HWY. 65 - LT.	240.00	213.33
853+11.85	854+28.00	HWY. 65 - LT.	116.15	103.24
858+50.00	859+60.00	HWY. 65 - LT.	110.00	97.78
863+00.00	865+00.00	HWY. 65 - LT.	200.00	177.78
871+00.00	871+85.00	HWY. 65 - LT.	85.00	75.56
TOTAL:				4106.35

NOTE: AVERAGE WIDTH = 8'-0"

4" PIPE UNDERDRAIN

STATION	STATION	LOCATIONS	4" PIPE UNDERDRAINS	UNDERDRAIN OUTLET PROTECTORS
			LIN. FT.	EACH
* ENTIRE PROJECT TO BE USED IF AND			21000	84
WHERE DIRECTED BY THE ENGINEER				
TOTALS:			21000	84

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

MAILBOXES

LOCATION	MAILBOXES	MAILBOX SUPPORTS (SINGLE)	MAILBOX SUPPORTS (DOUBLE)
	EACH		
ENTIRE PROJECT	116	84	16
TOTALS:	116	84	16

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
1-9-19

CONCRETE COMBINATION CURB AND GUTTER

STATION	STATION	LOCATION	TYPE A (1' 6")	TYPE B-1 (1' 6")
			LIN. FT.	LIN. FT.
497+04	499+12	HWY. 65 - LT.	208	
497+04	499+12	HWY. 65 - RT.	208	
509+25	512+15	HWY. 65 - RT.		290
509+50	511+80	HWY. 65 - LT.		230
514+65	517+05	HWY. 65 - RT.		240
518+60	521+00	HWY. 65 - RT.		240
659+50	666+00	HWY. 65 - LT.		650
751+14	753+41	HWY. 65 - LT.		227
763+95	766+75	HWY. 65 - LT.		280
TOTALS:			416	2157

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL: SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY EROSION CONTROL: TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	ROCK DITCH CHECKS (E-6)	DROP INLET SILT FENCE (E-7)	SILT FENCE (E-11)	DIVERSION DITCH (E-8)	PIPE FOR SLOPE DRAINS SLOPE DRAIN (E-12)	DUMPED RIPRAP SLOPE DRAIN (E-12)	TRIANGULAR SILT DIKE	SEDIMENT BASIN (E-14)	OBLITERATION OF SEDIMENT BASIN	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	BAG	CU.YD.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	CU.YD.	LIN. FT.	CU.YD.	CU.YD.	CU. YD.
ENTIRE	PROJECT	CLEARING AND GRUBBING						156.51	156.51	3192.8	6424	1329		26210							1706
ENTIRE	PROJECT	STAGE 1	58.17	116.34	58.17	5933.3	58.17	86.78	86.78	1770.3	2904	705	110	9010	5560	960	24		6531	6531	7236
ENTIRE	PROJECT	STAGE 2	44.57	89.14	44.57	4546.1	44.57	69.73	69.73	1422.5	2442	627	66	18580				1035	2315	2315	3326
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			25.69	51.38	25.69	2620.4	25.69	78.26	78.26	1596.5	2943	666	44	13450	1390	240	6	259	2212	2212	3068
TOTALS:			128.43	256.86	128.43	13099.8	128.43	391.28	391.28	7982.1	14713	3327	220	67250	6950	1200	30	1294	11058	11058	15336

BASIS OF ESTIMATE:
LIME .....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING
WATTLE DITCH CHECKS.....9 LIN. FT. / LOCATION
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
ROCK DITCH CHECKS.....3 CU.YD /LOCATION

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

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

1/9/2019
RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12-12-18			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	103	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

12-12-18

ACHM PATCHING OF EXISTING ROADWAY

DESCRIPTION	TON
ENTIRE PROJECT - TO BE USED IF AND WHERE	100
DIRECTED BY THE ENGINEER	
TOTAL:	**100**

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

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
497+04.36	498+04.36	MAIN LANES	36.00	400.00
912+34.04	913+34.04	MAIN LANES	36.00	400.00
705+22.42	706+22.42	HWY. 110	20.00	222.22
TOTAL:				**1022.22**

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING
	CU.YD.
ENTIRE PROJECT TO BE USED IF	
AND WHERE DIRECTED BY THE	300
ENGINEER	
TOTAL:	**300**

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

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC

LOCATION	TON	TACK COAT
		GALLON
ENTIRE PROJECT - TO BE USED IF AND WHERE	200	400
DIRECTED BY THE ENGINEER		
TOTALS:	**200**	**400**

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

CONCRETE DITCH PAVING (BOX 1 OF 2)

STATION	STATION	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
497+04.40	500+21.00	HWY. 65 - LT.	316.60	6.33	222.68	140.71	1.77
500+48.33	509+53.00	HWY. 65 - LT.	904.67	6.33	636.28	402.08	5.07
502+75.00	509+21.00	HWY. 65 - RT.	646.00	6.33	454.35	287.11	3.62
511+75.00	512+19.00	HWY. 65 - LT.	44.00	6.33	30.95	19.56	0.25
512+00.00	513+40.00	HWY. 65 - RT.	140.00	6.33	98.47	62.22	0.78
512+73.00	516+84.00	HWY. 65 - LT.	411.00	6.33	289.07	182.67	2.30
513+80.00	514+65.00	HWY. 65 - RT.	85.00	6.33	59.78	37.78	0.48
517+26.00	519+29.00	HWY. 65 - LT.	203.00	6.33	142.78	90.22	1.14
517+49.00	517+70.00	HWY. 65 - RT.	21.00	6.33	14.77	9.33	0.12
518+06.00	518+62.00	HWY. 65 - RT.	56.00	6.33	39.39	24.89	0.31
519+67.00	519+85.00	HWY. 65 - LT.	18.00	6.33	12.66	8.00	0.10
521+90.00	522+24.00	HWY. 65 - LT.	34.00	6.33	23.91	15.11	0.19
521+97.00	522+14.00	HWY. 65 - RT.	17.00	6.33	11.96	7.56	0.10
522+54.00	523+45.00	HWY. 65 - RT.	91.00	6.33	64.00	40.44	0.51
522+74.00	524+96.00	HWY. 65 - LT.	222.00	6.33	156.14	98.67	1.24
523+80.00	526+05.00	HWY. 65 - RT.	225.00	6.33	158.25	100.00	1.26
525+49.00	526+59.00	HWY. 65 - LT.	110.00	6.33	77.37	48.89	0.62
526+54.00	526+79.00	HWY. 65 - RT.	25.00	6.33	17.58	11.11	0.14
527+07.00	528+90.00	HWY. 65 - LT.	183.00	6.33	128.71	81.33	1.02
527+11.00	528+07.00	HWY. 65 - RT.	96.00	6.33	67.52	42.67	0.54
528+24.00	528+60.00	HWY. 65 - RT.	36.00	6.33	25.32	16.00	0.20
528+96.00	530+25.00	HWY. 65 - RT.	129.00	6.33	90.73	57.33	0.72
529+40.00	531+65.00	HWY. 65 - LT.	225.00	6.33	158.25	100.00	1.26
532+07.00	537+22.00	HWY. 65 - LT.	515.00	6.33	362.22	228.89	2.88
537+62.00	538+86.00	HWY. 65 - LT.	124.00	6.33	87.21	55.11	0.69
538+52.00	539+00.00	HWY. 65 - RT.	48.00	6.33	33.76	21.33	0.27
539+28.00	540+09.00	HWY. 65 - RT.	81.00	6.33	56.97	36.00	0.45
539+34.00	540+38.00	HWY. 65 - LT.	104.00	6.33	73.15	46.22	0.58
540+37.00	542+81.00	HWY. 65 - RT.	244.00	6.33	171.61	108.44	1.37
540+78.00	541+41.00	HWY. 65 - LT.	63.00	6.33	44.31	28.00	0.35
541+81.00	542+22.00	HWY. 65 - LT.	41.00	6.33	28.84	18.22	0.23
542+62.00	543+74.00	HWY. 65 - LT.	112.00	6.33	78.77	49.78	0.63
546+67.00	547+20.00	HWY. 65 - LT.	53.00	6.33	37.28	23.56	0.30
547+25.00	548+25.00	HWY. 65 - LT.	100.00	6.33	70.33	44.44	0.56
549+75.00	550+40.00	HWY. 65 - RT.	65.00	6.33	45.72	28.89	0.36
550+88.00	553+61.00	HWY. 65 - RT.	273.00	6.33	192.01	121.33	1.53
553+93.00	558+25.00	HWY. 65 - RT.	432.00	6.33	303.84	192.00	2.42
556+05.00	557+37.00	HWY. 65 - LT.	132.00	6.33	92.84	58.67	0.74
558+69.00	562+42.00	HWY. 65 - RT.	373.00	6.33	262.34	165.78	2.09
560+35.00	565+38.00	HWY. 65 - LT.	503.00	6.33	353.78	223.56	2.82
562+78.00	563+61.00	HWY. 65 - RT.	83.00	6.33	58.38	36.89	0.46
563+95.00	566+98.00	HWY. 65 - RT.	303.00	6.33	213.11	134.67	1.70
565+77.00	568+18.00	HWY. 65 - LT.	241.00	6.33	169.50	107.11	1.35
568+81.00	580+98.00	HWY. 65 - LT.	1217.00	6.33	855.96	540.89	6.82
573+62.00	577+31.00	HWY. 65 - RT.	369.00	6.33	259.53	164.00	2.07
577+83.00	578+80.00	HWY. 65 - RT.	97.00	6.33	68.22	43.11	0.54
SUBTOTALS (BOX 1 OF 2):					**6900.60**	**4360.57**	**54.95**

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

CONCRETE DITCH PAVING (BOX 2 OF 2)

STATION	STATION	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
579+47.00	579+65.00	HWY. 65 - RT.	18.00	6.33	12.66	8.00	0.10
581+38.00	581+75.00	HWY. 65 - RT.	37.00	6.33	26.02	16.44	0.21
581+52.00	583+00.00	HWY. 65 - LT.	148.00	6.33	104.09	65.78	0.83
583+39.00	583+88.00	HWY. 65 - LT.	49.00	6.33	34.46	21.78	0.27
584+22.00	585+61.00	HWY. 65 - LT.	139.00	6.33	97.76	61.78	0.78
585+87.00	586+02.00	HWY. 65 - RT.	15.00	6.33	10.55	6.67	0.08
585+95.00	587+96.00	HWY. 65 - LT.	201.00	6.33	141.37	89.33	1.13
586+34.00	587+18.00	HWY. 65 - RT.	84.00	6.33	59.08	37.33	0.47
588+25.00	589+00.00	HWY. 65 - LT.	75.00	6.33	52.75	33.33	0.42
592+00.00	592+95.00	HWY. 65 - RT.	95.00	6.33	66.82	42.22	0.53
593+24.00	595+00.00	HWY. 65 - RT.	176.00	6.33	123.79	78.22	0.99
608+11.00	608+82.00	HWY. 65 - RT.	71.00	6.33	49.94	31.56	0.40
608+78.00	610+35.00	HWY. 65 - LT.	157.00	6.33	110.42	69.78	0.88
609+00.00	610+17.00	HWY. 65 - RT.	117.00	6.33	82.29	52.00	0.66
610+58.00	611+78.00	HWY. 65 - RT.	120.00	6.33	84.40	53.33	0.67
612+06.00	612+34.00	HWY. 65 - RT.	28.00	6.33	19.69	12.44	0.16
612+72.00	613+63.00	HWY. 65 - RT.	91.00	6.33	64.00	40.44	0.51
614+06.00	627+78.00	HWY. 65 - RT.	1372.00	6.33	964.97	609.78	7.68
628+13.00	640+58.00	HWY. 65 - RT.	1245.00	6.33	875.65	553.33	6.97
630+51.00	631+19.00	HWY. 65 - LT.	68.00	6.33	47.83	30.22	0.38
631+51.00	631+75.00	HWY. 65 - LT.	24.00	6.33	16.88	10.67	0.13
641+02.00	641+60.00	HWY. 65 - RT.	58.00	6.33	40.79	25.78	0.32
642+04.00	644+03.00	HWY. 65 - RT.	199.00	6.33	139.96	88.44	1.11
659+00.00	659+56.00	HWY. 65 - LT.	56.00	6.33	39.39	24.89	0.31
672+89.00	674+83.00	HWY. 65 - RT.	194.00	6.33	136.45	86.22	1.09
675+45.00	678+67.00	HWY. 65 - RT.	322.00	6.33	226.47	143.11	1.80
702+66.00	702+73.00	HWY. 65 - LT.	7.00	6.33	4.92	3.11	0.04
703+01.00	704+75.00	HWY. 65 - LT.	174.00	6.33	122.38	77.33	0.97
704+85.00	706+91.00	HWY. 65 - RT.	206.00	6.33	144.89	91.56	1.15
707+11.00	712+50.00	HWY. 65 - LT.	539.00	6.33	379.10	239.56	3.02
718+53.00	720+59.00	HWY. 65 - RT.	206.00	6.33	144.89	91.56	1.15
732+40.00	735+19.00	HWY. 65 - RT.	279.00	6.33	196.23	124.00	1.56
735+14.00	736+00.00	HWY. 65 - LT.	86.00	6.33	60.49	38.22	0.48
744+43.00	746+80.00	HWY. 65 - LT.	237.00	6.33	166.69	105.33	1.33
748+50.00	751+17.00	HWY. 65 - LT.	267.00	6.33	187.79	118.67	1.50
753+39.00	758+82.00	HWY. 65 - LT.	543.00	6.33	381.91	241.33	3.04
770+90.00	773+66.00	HWY. 65 - LT.	276.00	6.33	194.12	122.67	1.55
826+75.00	828+00.00	HWY. 65 - RT.	125.00	6.33	87.92	55.56	0.70
838+86.00	841+25.00	HWY. 65 - RT.	239.00	6.33	168.10	106.22	1.34
872+30.00	874+00.00	HWY. 65 - LT.	170.00	6.33	119.57	75.56	0.95
876+90.00	882+50.00	HWY. 65 - LT.	560.00	6.33	393.87	248.89	3.14
892+08.00	895+45.00	HWY. 65 - LT.	337.00	6.33	237.02	149.78	1.89
SUBTOTALS (BOX 1 OF 2):					**6900.60**	**4360.57**	**54.95**
SUBTOTALS (BOX 2 OF 2):					**6618.37**	**4182.22**	**52.69**
TOTALS:					**13518.97**	**8542.79**	**107.64**

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

12/11/2018

RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
12-12-18				6	ARK.			
				JOB NO.		CA0801	104	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

DUMPED RIPRAP AND FILTER BLANKET

STATION	STATION	LOCATION	DUMPED RIPRAP	FILTER BLANKET
			CU. YD.	SQ. YD.
500+62		OUTLET OF PIPE CULVERT	9	18
521+06		OUTLET OF PIPE CULVERT	5	9
520+23	520+93	HWY. 65 - LT	25	49
521+07	521+56	HWY. 65 - RT	17	34
521+26	521+90	HWY. 65 - LT	26	52
528+19		OUTLET OF PIPE CULVERT	15	30
533+35	536+00	HWY. 65 - LT	437	873
534+00	537+00	HWY. 65 - RT	347	694
535+35		OUTLET OF PIPE CULVERT	4	8
547+26		OUTLET OF PIPE CULVERT	4	8
552+85		OUTLET OF PIPE CULVERT	5	9
570+10		OUTLET OF PIPE CULVERT	6	12
580+25	581+12	HWY. 65 - RT	36	71
588+66		OUTLET OF PIPE CULVERT	13	26
588+73	590+40	HWY. 65 - RT	68	136
589+00	591+00	HWY. 65 - LT	82	163
590+79	592+95	HWY. 65 - RT	88	176
597+30	598+25	HWY. 65 - LT	39	77
597+30		OUTLET OF PIPE CULVERT	6	11
602+08		OUTLET OF PIPE CULVERT	5	9
609+19		OUTLET OF PIPE CULVERT	7	14
614+58		OUTLET OF PIPE CULVERT	6	12
615+00	647+50	HWY. 65 - RT	8596	17192
621+14		OUTLET OF PIPE CULVERT	28	56
628+84		OUTLET OF PIPE CULVERT	5	9
635+43		OUTLET OF PIPE CULVERT	5	9
670+27		OUTLET OF PIPE CULVERT	7	13
716+75	718+80	HWY. 65 - RT	159	317
729+15	732+40	HWY. 65 - RT	133	265
735+33		OUTLET OF PIPE CULVERT	12	23
742+71	755+48	HWY. 65 - RT	2340	4680
744+45		OUTLET OF PIPE CULVERT	5	9
746+80	748+50	HWY. 65 - LT	69	138
750+77		OUTLET OF PIPE CULVERT	5	9
751+00	752+60	HWY. 65 - LT	239	478
755+36		OUTLET OF PIPE CULVERT	5	9
768+75	774+70	HWY. 65 - RT	1140	2280
769+28	770+48	HWY. 65 - LT	49	98
770+21		OUTLET OF PIPE CULVERT	9	17
794+44		OUTLET OF PIPE CULVERT	7	13
800+15	806+72	HWY. 65 - RT	2690	5380
806+00	810+00	HWY. 65 - LT	1301	2602
812+60	823+20	HWY. 65 - RT	3420	6839
817+63		OUTLET OF PIPE CULVERT	8	16
821+96	824+00	HWY. 65 - LT	83	166
822+10		OUTLET OF PIPE CULVERT	6	11
842+75	826+75	HWY. 65 - RT	-652	-1303
834+25	840+83	HWY. 65 - RT	2360	4719
844+78		OUTLET OF PIPE CULVERT	5	9
855+18		OUTLET OF PIPE CULVERT	9	18
874+00	876+62	HWY. 65 - LT	107	213
882+50	891+53	HWY. 65 - LT	368	735
895+45	896+39	HWY. 65 - LT	39	77
896+76	901+06	HWY. 65 - LT	175	350
904+35		OUTLET OF PIPE CULVERT	5	9
TOTALS:			23987	47947

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

FENCING

STATION	STATION	LOCATION	WIRE FENCE (TYPE C)	WIRE FENCE (TYPE D)	WIRE FENCE (TYPE D-1)	* 4' CHAIN LINK FENCE	* 5' CHAIN LINK FENCE	* 16'-0" GATES	* 18'-0" GATES
			LIN. FT.					EACH	EACH
514+60	516+97	HWY. 65 - LT.	237						
517+13	519+22	HWY. 65 - LT.	209						
519+22	519+40	HWY. 65 - LT.					18		
533+29	538+04	HWY. 65 - RT.	475						
545+94	553+13	HWY. 65 - LT.	719						
647+00	649+45	HWY. 65 - RT.	245						
650+35	658+15	HWY. 65 - RT.	1030						
658+43	663+29	HWY. 65 - RT.	486						
665+30		HWY. 65 - RT.		230					
669+00	669+56	HWY. 65 - RT.		56					
673+40	673+66	HWY. 65 - LT.			26				
674+10	679+39	HWY. 65 - LT.			529				2
681+75	693+25	HWY. 65 - LT.		1150				1	
705+72	706+70	HWY. 65 - LT.				98		1	
715+75	718+80	HWY. 65 - LT.			305				
720+00	726+36	HWY. 65 - LT.			636				
730+00	733+15	HWY. 65 - LT.	315						
734+10	735+60	HWY. 65 - RT.	200					1	
782+30	788+18	HWY. 65 - LT.		588				1	
788+18	792+60	HWY. 65 - LT.	442						
856+50	868+00	HWY. 65 - LT.	1150						
908+30	910+97	HWY. 65 - LT.					267		
TOTALS:			5508	2024	1496	98	285	4	2

* DENOTES ALTERNATE BID ITEM.

PAVEMENT REPAIR OVER CULVERTS (CONCRETE)

STATION	LOCATION	WIDTH (FEET)	LENGTH (FEET)	CU.YD.
521+18	HWY. 65	8.50	36	17.5
528+19	HWY. 65	8.50	36	17.5
535+35	HWY. 65	8.50	36	17.5
552+85	HWY. 65	8.50	36	17.5
570+10	HWY. 65	8.50	36	17.5
573+75	HWY. 65	8.50	36	17.5
579+50	HWY. 65	8.50	36	17.5
584+35	HWY. 65	9.08	36	18.7
597+30	HWY. 65	9.08	36	18.7
628+84	HWY. 65	8.50	36	17.5
635+43	HWY. 65	8.50	36	17.5
670+27	HWY. 65	8.50	36	17.5
735+33	HWY. 65	8.50	36	17.5
746+82	HWY. 65	8.50	36	17.5
755+26	HWY. 65	8.50	36	17.5
758+16	HWY. 65	8.50	36	17.5
763+70	HWY. 65	9.67	36	19.9
801+00	HWY. 65	15.67	24	21.5
806+00	HWY. 65	9.08	24	12.4
815+03	HWY. 65	8.50	24	11.6
817+63	HWY. 65	8.50	24	11.6
822+10	HWY. 65	8.50	24	11.6
855+18	HWY. 65	14.00	24	19.2
876+24	HWY. 65	8.50	24	11.6
880+50	HWY. 65	8.50	24	11.6
886+92	HWY. 65	8.50	24	11.6
891+50	HWY. 65	8.50	24	11.6
896+36	HWY. 65	9.08	24	12.4
TOTAL:				449.0

AVG. DEPTH = 18.5"

FLOWABLE SELECT MATERIAL

STATION	LOCATION	CU. YD.
503+00	HWY. 65-TEMP. PIPE	7
560+00	HWY. 65-TEMP. PIPE	10
610+00	HWY. 65-TEMP. PIPE	6
626+00	HWY. 65-TEMP. PIPE	7
TOTAL:		30

CONCRETE ISLAND

STATION	LOCATION	CURB FACE TYPE	CONCRETE ISLAND SQ.YD.
910+85	HWY. 65 - RT.	B	222
911+30	HWY. 65 - RT.	B	222
TOTAL:			444

RUMBLE STRIPS IN ASPHALT SHOULDERS

STATION	STATION	LOCATION	* RUMBLE STRIPS IN ASPHALT SHOULDERS LIN.FT.
499+12	912+34	HWY. 65 - LT.	30156
499+12	912+34	HWY. 65 - RT.	29066
TOTAL:			59222

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

12/11/2018

RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
01-09-19				6	ARK.			
				JOB NO.		CA0801	105	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
1-9-19

STRUCTURES

STATION	DESCRIPTION	REINFORCED CONCRETE PIPE CULVERT (CLASS III) 24"	(CLASS III) 30"	(CLASS III) 36"	(CLASS IV) 24"	(CLASS IV) 30"	(CLASS V) 30"	(CLASS V) 36"	PIPE CULVERT ALTERNATES ALT. 1 (CLASS III) 18"	ALT. 1 (CLASS III) 24"	ALT. 2 18"	ALT. 2 24"	SIDE DRAIN 18"	SIDE DRAIN 24"	SIDE DRAIN 21"X15"	FLARED END SECTIONS FOR R.C. PIPE CULVERTS 24"	30"	36"	FLARED END SECTION ALTERNATES FOR PIPE CULVERT ALTERNATES 18"	24"	TEMPORARY CULVERTS 18"	24"	DROP INLETS TYPE ST	JUNCT. BOXES (TYPE E)	SPAN	HEIGHT	LENGTH	CLASS S CONCRETE ROADWAY	REINF. STEEL-ROADWAY (GRADE 60)	UNCL.EXC. FOR STR.-ROADWAY	SOLID SODDING	WATER	STD. DWG. NOS.
		LIN. FT.														EACH					LIN. FT.	LIN. FT.	EACH										
500+62	HWY. 65-DBL. 24" X 156' R.C. PIPE CULVERT				316											4																18	0.23	FES-1, FES-2, PCC-1
503+00	HWY. 65-TEMPORARY PIPE																				62													
506+50	HWY. 65-DI ON LT. W/ PIPE INLET AND OUTLET									242		250								2			1								16	0.20	FES-1, FES-2, FPC-9S, PCC-1, PCM-1
510+60	HWY. 65-RT. SIDE DRAIN												280																				PCC-1, PCM-1, PCP-1, PCP-2
514+65	HWY. 65-DI ON RT. W/ PIPE INLET AND OUTLET								250		258								2				1								10	0.13	FES-1, FES-2, FPC-9S, PCC-1, PCM-1
518+60	HWY. 65-DI ON RT. W/ PIPE OUTLET								22		26								1				1								5	0.06	FES-1, FES-2, FPC-9S, PCC-1, PCM-1
521+18	HWY. 65-24" X 120' R.C. PIPE CULVERT				120											2															16	0.20	FES-1, FES-2, PCC-1
528+19	HWY. 65-24" X 122' R.C. PIPE CULVERT				122											2															16	0.20	FES-1, FES-2, PCC-1
535+35	HWY. 65-24" X 144' R.C. PIPE CUVERT	144														2															16	0.20	FES-1, FES-2, PCC-1
539+10	HWY. 65-LT. SIDE DRAIN													48																			PCC-1, PCM-1, PCP-1, PCP-2
547+26	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	60														2															16	0.20	FES-1, FES-2, PCC-1
552+85	HWY. 65-24" X 118' R.C. PIPE CULVERT	118														2															16	0.20	FES-1, FES-2, PCC-1
560+00	HWY. 65-TEMPORARY PIPE																				98													
570+10	HWY. 65-24" X 166' R.C. PIPE CULVERT				166											2															16	0.20	FES-1, FES-2, PCC-1
573+75	HWY. 65-24" X 144' R.C. PIPE CUVERT	144														2															16	0.20	FES-1, FES-2, PCC-1
579+50	HWY. 65-24" X 144' R.C. PIPE CUVERT				144											2															16	0.20	FES-1, FES-2, PCC-1
581+25	HWY. 65-LT. SIDE DRAIN													60																			PCC-1, PCM-1, PCP-1, PCP-2
584+35	HWY. 65-30" X 124' R.C. PIPE CULVERT		124														2														26	0.33	FES-1, FES-2, PCC-1
588+66	HWY. 65-EXTEND 4' X 3' X 79' R.C. BOX CULVERT 26' LT. & 24' RT.																								4	3	50	23.65	2637	17	12	0.15	RCB-1, RCB-2, RCB-3, R-100X-0, W-X003-1
595+82	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	62														2															16	0.20	FES-1, FES-2, PCC-1
597+30	HWY. 65-30" X 140' R.C. PIPE CULVERT		140														2														26	0.33	FES-1, FES-2, PCC-1
602+08	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	70														2															16	0.20	FES-1, FES-2, PCC-1
609+19	HWY. 65-EXTEND 24" R.C. PIPE CULVERT ON 10° LT. FWD. SKEW	72														2															16	0.20	FES-1, FES-2, PCC-1
610+00	HWY. 65-TEMPORARY PIPE																				60													
614+58	HWY. 65-EXTEND 24" R.C. PIPE CULVERT ON 10° RT. FWD. SKEW	70														2															16	0.20	FES-1, FES-2, PCC-1
621+14	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	76														2															16	0.20	FES-1, FES-2, PCC-1
626+00	HWY. 65-TEMPORARY PIPE																				64													
628+84	HWY. 65-24" X 136' R.C. PIPE CULVERT	136														2															16	0.20	FES-1, FES-2, PCC-1
635+43	HWY. 65-24" X 130' R.C. PIPE CULVERT	130														2															16	0.20	FES-1, FES-2, PCC-1
651+57	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	56														2															16	0.20	FES-1, FES-2, PCC-1
659+50	HWY. 65-DI ON LT. W/ PIPE OUTLET									20		24								1			1								8	0.10	FES-1, FES-2, FPC-9S, PCC-1, PCM-1
664+86	HWY. 65-RT. SIDE DRAIN												56																				PCC-1, PCM-1, PCP-1, PCP-2
666+00	HWY. 65-DI ON LT. W/ PIPE OUTLET									22		26								1			1								8	0.10	FES-1, FES-2, FPC-9S, PCC-1, PCM-1
670+27	HWY. 65-EXTEND 24" R.C.P. & ADD 24" R.C.P. ON 20° RT. FWD. SKEW	236														4															32	0.40	FES-1, FES-2, PCC-1
732+13	HWY. 65-EXTEND 24" R.C.P. & ADD 30" R.C.P.	76					164									2	2														42	0.53	FES-1, FES-2, PCC-1
735+33	HWY. 65-EXTEND 24" R.C.P. & ADD 24" R.C.P.	192														4															32	0.40	FES-1, FES-2, PCC-1
742+56	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	64														2															16	0.20	FES-1, FES-2, PCC-1
744+45	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	62														2															16	0.20	FES-1, FES-2, PCC-1
748+82	HWY. 65-EXTEND 24" R.C.P. & ADD 24" R.C.P.	190														4															32	0.40	FES-1, FES-2, PCC-1
750+77	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	64														2															16	0.20	FES-1, FES-2, PCC-1
751+14	HWY. 65-DI ON LT. W/ PIPE INLET AND OUTLET									238		240								2			1								16	0.20	FES-1, FES-2, FPC-9S, PCC-1, PCM-1
755+36	HWY. 65-24" X 152' R.C. PIPE CULVERT	152														2															16	0.20	FES-1, FES-2, PCC-1
758+16	HWY. 65-24" X 144' R.C. PIPE CULVERT	144														2															16	0.20	FES-1, FES-2, PCC-1
763+70	HWY. 65-36" X 140' R.C. PIPE CULVERT			140														2													34	0.43	FES-1, FES-2, PCC-1
768+75	HWY. 65-DI ON LT. W/ PIPE OUTLET								20		16								1															
770+21	HWY. 65-EXTEND 24" R.C.P. & ADD 36" R.C.P.	70												146		2		2													50	0.63	FES-1, FES-2, PCC-1
772+71	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	66														2															16	0.20	FES-1, FES-2, PCC-1
783+91	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	72														2															16	0.20	FES-1, FES-2, PCC-1
794+44	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	80														2															16	0.20	FES-1, FES-2, PCC-1
801+00	HWY. 65-DBL. 30" X 144' R.C. PIPE CULVERT					288											4														28	0.35	FES-1, FES-2, PCC-1
806+00	HWY. 65-30" X 134' R.C. PIPE CULVERT		134														2														26	0.33	FES-1, FES-2, PCC-1
810+03	HWY. 65-EXTEND 24" R.C. PIPE CULVERT				76											2															16	0.20	FES-1, FES-2, PCC-1
815+03	HWY. 65-EXTEND 24" R.C.P. & ADD 24" R.C.P.	208														4															18	0.23	FES-1, FES-2, PCC-1
817+63	HWY. 65-EXTEND 24" R.C.P. & ADD 24" R.C.P.	242														4															18	0.23	FES-1, FES-2, PCC-1
822+10	HWY. 65-24" X 140' R.C. PIPE CULVERT	140														2															16	0.20	FES-1, FES-2, PCC-1
834+90	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	80														2															16	0.20	FES-1, FES-2, PCC-1
839+35	HWY. 65-EXTEND 4' X 4' X 165' R.C. BOX CULVERT 8' LT. & 42' RT. TO JB W/ 28' OUTLET																							1	4	4	78	37.70	4184	23	15	0.19	RCB-1, RCB-2, RCB-3, R-100X-0, W-X003-1
842+25	HWY. 65-EXTEND 24" R.C. PIPE CULVERT				76											2															16	0.20	FES-1, FES-2, PCC-1
844+78	HWY. 65-EXTEND 3' X 2' X 96' R.C. BOX CULVERT 42' LT.																								3	2	42	13.68	1181	14	7	0.09	SPECIAL DETAIL, RCB-1, RCB-2, RCB-3
855+18	HWY. 65-DBL. 24" X 140' R.C. PIPE CULVERT	280														4															18	0.23	FES-1, FES-2, PCC-1
859+60	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	76														2															16	0.20	FES-1, FES-2, PCC-1
876+24	HWY. 65-24" X 158' R.C. PIPE CULVERT				158											2															16	0.20	FES-1, FES-2, PCC-1
880+50	HWY. 65-24" X 144' R.C. PIPE CULVERT	144														2															16	0.20	FES-1, FES-2, PCC-1
886+92	HWY. 65-24" X 140' R.C. PIPE CULVERT	140														2															16	0.20	FES-1, FES-2, PCC-1
891+50	HWY. 65-24" X 142' R.C. PIPE CULVERT	142														2															16	0.20	FES-1, FES-2, PCC-1
896+36	HWY. 65-30" X 136' R.C. PIPE CULVERT		136														2														26	0.33	FES-1, FES-2, PCC-1
904+35	HWY. 65-EXTEND 24" R.C. PIPE CULVERT	90														2															16	0.20	FES-1, FES-2, PCC-1
904+95	HWY. 65-D.I W/18" X 298' R.C. PIPE OUTLET	298														1							1								5	0.06	FES-1, FES-2, PCC-1
301+75	HENDERSON ROAD														34																		PCC-1, PCM-1, PCP-1, PCP-2
501+90	GLENN ROAD												56																				PCC-1, PCM-1, PCP-1, PCP-2
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER																					200												
TOTALS:		4446	534	140	1178	288	164	146	292	522	300	540	392	108	34	101	14	4	4	6	284	200	7	1				75.03	8002	54	1072	13.46	

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING
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.
* NOTE: QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STD. SPECS.

1/9/2019

RCA0801.DGN

QUANTITIES

DRIVEWAYS & TURNOUTS (BOX 1 OF 2)

STATION	SIDE	LOCATION	WIDTH	PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (3/8") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)	SIDE DRAINS				STANDARD DRAWINGS
								18"	24"	30"	21"X15"	
			FEET	SQ. YD.	SQ. YD.	TON	TON	LIN. FT.				
500+62	LT.	HWY. 65	18	173.98								
509+58	RT.	HWY. 65	18		113.36	12.47	46.29					
510+23	RT.	HWY. 65	18		94.76	10.42	38.69					
511+04	LT.	HWY. 65	24		192.44	21.17	78.58					
511+65	RT.	HWY. 65	18		102.36	11.26	41.80					
512+46	LT.	HWY. 65	34		199.88	21.99	81.62	54				PCC-1, PCM-1, PCP-1, PCP-2
513+60	RT.	HWY. 65	18		111.78	12.30	45.64	40				PCC-1, PCM-1, PCP-1, PCP-2
515+42	RT.	HWY. 65	16		97.14	10.69	39.67					
516+70	RT.	HWY. 65	16		87.20	9.59	35.61					
517+05	LT.	HWY. 65	16		96.48	10.61	39.40	42				PCC-1, PCM-1, PCP-1, PCP-2
517+30	RT.	HWY. 65	16		96.73	10.64	39.50	38				PCC-1, PCM-1, PCP-1, PCP-2
517+88	RT.	HWY. 65	16		96.75	10.64	39.51	36				PCC-1, PCM-1, PCP-1, PCP-2
518+94	RT.	HWY. 65	16		86.19	9.48	35.19					
519+48	LT.	HWY. 65	16		93.51	10.29	38.18	40				PCC-1, PCM-1, PCP-1, PCP-2
520+04	LT.	HWY. 65	16		88.30	9.71	36.06	40				PCC-1, PCM-1, PCP-1, PCP-2
520+60	RT.	HWY. 65	22		119.36	13.13	48.74					
521+00	LT.	HWY. 65	16		86.88	9.56	35.48					
521+77	RT.	HWY. 65	16		107.34	11.81	43.83		40			PCC-1, PCM-1, PCP-1, PCP-2
522+34	RT.	HWY. 65	16		98.40	10.82	40.18		40			PCC-1, PCM-1, PCP-1, PCP-2
522+49	LT.	HWY. 65	18		138.76	15.26	56.66	54				PCC-1, PCM-1, PCP-1, PCP-2
523+63	RT.	HWY. 65	16		91.79	10.10	37.48		34			PCC-1, PCM-1, PCP-1, PCP-2
525+23	LT.	HWY. 65	16		131.54	14.47	53.71	54				PCC-1, PCM-1, PCP-1, PCP-2
526+30	RT.	HWY. 65	32		165.22	18.17	67.46		48			PCC-1, PCM-1, PCP-1, PCP-2
526+83	LT.	HWY. 65	16	150.38				50				PCC-1, PCM-1, PCP-1, PCP-2
526+95	RT.	HWY. 65	16		83.45	9.18	34.08		32			PCC-1, PCM-1, PCP-1, PCP-2
529+78	RT.	HWY. 65	16		101.78	11.20	41.56	36				PCC-1, PCM-1, PCP-1, PCP-2
529+15	LT.	HWY. 65	16		123.75	13.61	50.53	52				PCC-1, PCM-1, PCP-1, PCP-2
531+48	RT.	HWY. 65	16		104.21	11.46	42.55				28	PCC-1, PCM-1, PCP-1, PCP-2
531+86	LT.	HWY. 65	16		98.85	10.87	40.36	44				PCC-1, PCM-1, PCP-1, PCP-2
537+42	LT.	HWY. 65	16		105.62	11.62	43.13		40			PCC-1, PCM-1, PCP-1, PCP-2
538+38	RT.	HWY. 65	16		105.62	11.62	43.13		28			PCC-1, PCM-1, PCP-1, PCP-2
529+14	RT.	HWY. 65	16		78.95	8.68	32.24	28				PCC-1, PCM-1, PCP-1, PCP-2
540+23	RT.	HWY. 65	16		66.74	7.34	27.25	28				PCC-1, PCM-1, PCP-1, PCP-2
540+58	LT.	HWY. 65	16		105.85	11.64	43.22	40				PCC-1, PCM-1, PCP-1, PCP-2
541+61	LT.	HWY. 65	16		106.69	11.74	43.57	40				PCC-1, PCM-1, PCP-1, PCP-2
542+42	LT.	HWY. 65	16		107.13	11.78	43.74	40				PCC-1, PCM-1, PCP-1, PCP-2
542+96	RT.	HWY. 65	16		76.68	8.43	31.31	30				PCC-1, PCM-1, PCP-1, PCP-2
543+92	LT.	HWY. 65	16		87.70	9.65	35.81	36				PCC-1, PCM-1, PCP-1, PCP-2
544+39	RT.	HWY. 65	16		68.73	7.56	28.06	30				PCC-1, PCM-1, PCP-1, PCP-2
545+53	RT.	HWY. 65	16		62.40	6.86	25.48	28				PCC-1, PCM-1, PCP-1, PCP-2
545+80	LT.	VILLAGE ROAD	20		195.37	21.49	79.78					
550+64	RT.	HWY. 65	28		150.09	16.51	61.29	48				PCC-1, PCM-1, PCP-1, PCP-2
553+77	RT.	HWY. 65	16		79.11	8.70	32.30		34			PCC-1, PCM-1, PCP-1, PCP-2
555+25	LT.	HWY. 65	16		149.74	16.47	61.14					
557+78	LT.	HWY. 65	26		241.25	26.54	98.51					
558+47	RT.	HWY. 65	26		177.52	19.53	72.49		46			PCC-1, PCM-1, PCP-1, PCP-2
562+60	RT.	HWY. 65	24		213.37	23.47	87.13		36			PCC-1, PCM-1, PCP-1, PCP-2
563+78	RT.	HWY. 65	22		170.23	18.73	69.51		34			PCC-1, PCM-1, PCP-1, PCP-2
565+58	LT.	HWY. 65	16		116.41	12.81	47.53	40				PCC-1, PCM-1, PCP-1, PCP-2
567+06	RT.	HWY. 65	16		91.52	10.07	37.37					
568+50	LT.	HWY. 65	40		784.48	86.29	320.33	64				PCC-1, PCM-1, PCP-1, PCP-2
571+78	RT.	HWY. 65	36	271.00								
577+57	RT.	HWY. 65	32		269.71	29.67	110.13	56				PCC-1, PCM-1, PCP-1, PCP-2
579+17	RT.	HWY. 65	16		168.37	18.52	68.75	74				PCC-1, PCM-1, PCP-1, PCP-2
579+95	RT.	HWY. 65	16		221.69	24.39	90.52	68				PCC-1, PCM-1, PCP-1, PCP-2
581+25	RT.	HWY. 65	16		150.60	16.57	61.50	28				PCC-1, PCM-1, PCP-1, PCP-2
582+15	RT.	HWY. 65	16		150.60	16.57	61.50					
583+20	LT.	HWY. 65	16		88.20	9.70	36.02	38				PCC-1, PCM-1, PCP-1, PCP-2
583+34	RT.	HWY. 65	16		123.40	13.57	50.39					
583+96	LT.	HWY. 65	16		87.89	9.67	35.89					
584+81	RT.	HWY. 65	16		150.06	16.51	61.27					
585+78	LT.	HWY. 65	16		79.54	8.75	32.48	34				PCC-1, PCM-1, PCP-1, PCP-2
586+18	RT.	HWY. 65	16		105.62	11.62	43.13	32				PCC-1, PCM-1, PCP-1, PCP-2
587+26	RT.	HWY. 65	16		96.73	10.64	39.50					
588+04	LT.	HWY. 65	16		84.25	9.27	34.40					
590+60	RT.	HWY. 65	16		80.30	8.83	32.79		30			PCC-1, PCM-1, PCP-1, PCP-2
593+10	RT.	HWY. 65	20		97.14	10.69	39.67	28				PCC-1, PCM-1, PCP-1, PCP-2
595+37	RT.	HWY. 65	16		185.21	20.37	75.63					
598+93	RT.	HWY. 65	16		100.48	11.05	41.03					
601+45	RT.	HWY. 65	16		140.34	15.44	57.31					
610+38	RT.	HWY. 65	16		131.38	14.45	53.65			40		PCC-1, PCM-1, PCP-1, PCP-2
611+92	RT.	HWY. 65	16		73.53	8.09	30.02			28		PCC-1, PCM-1, PCP-1, PCP-2
612+55	RT.	HWY. 65	16		97.05	10.68	39.63			36		PCC-1, PCM-1, PCP-1, PCP-2
613+16	LT.	HWY. 65	24		224.01	24.64	91.47					
613+72	LT.	HWY. 65	16		203.72	22.41	83.19					
613+85	RT.	HWY. 65	16		112.04	12.32	45.75			40		PCC-1, PCM-1, PCP-1, PCP-2
615+76	LT.	HWY. 65	22		278.96	30.69	113.91					
616+85	LT.	HWY. 65	16		248.20	27.30	101.35					
623+00	LT.	HWY. 65	16		355.82	39.14	145.29					
628+00	RT.	HWY. 65	16		351.75	38.69	143.63					
631+35	LT.	HWY. 65	16		492.04	54.12	200.92	32				PCC-1, PCM-1, PCP-1, PCP-2
640+80	RT.	HWY. 65	16		141.17	15.53	57.64	44				PCC-1, PCM-1, PCP-1, PCP-2
641+82	RT.	HWY. 65	16		114.17	12.56	46.62	44				PCC-1, PCM-1, PCP-1, PCP-2
644+23	RT.	HWY. 65	16		92.14	10.14	37.62	40				PCC-1, PCM-1, PCP-1, PCP-2
648+52	LT.	HWY. 65	16		89.35	9.83	36.48	34				PCC-1, PCM-1, PCP-1, PCP-2
652+15	LT.	HWY. 65	16		89.74	9.87	36.64	30				PCC-1, PCM-1, PCP-1, PCP-2
654+66	LT.	HWY. 65	16		71.84	7.90	29.33	28				PCC-1, PCM-1, PCP-1, PCP-2
658+32	RT.	HWY. 65	16		88.39	9.72	36.09	28				PCC-1, PCM-1, PCP-1, PCP-2
660+51	LT.	HWY. 65	20		77.00	8.47	31.44					
663+18	LT.	HWY. 65	16		53.65	5.90	21.91					
663+37	RT.	HWY. 65	16		88.27	9.71	36.04					
665+50	LT.	HWY. 65	16		53.03	5.83	21.65					
667+92	RT.	HWY. 65	16		123.82	13.62	50.56	38				PCC-1, PCM-1, PCP-1, PCP-2
673+89	LT.	HWY. 65	30		124.50	13.70	50.84		42			PCC-1, PCM-1, PCP-1, PCP-2
675+22	RT.	HWY. 65	16		150.06	16.51	61.27	46				PCC-1, PCM-1, PCP-1, PCP-2
679+21	RT.	HWY. 65	30		228.40	25.12	93.26	48				PCC-1, PCM-1, PCP-1, PCP-2
679+21	LT.	HWY. 65	36		151.04	16.61	61.67	44				PCC-1, PCM-1, PCP-1, PCP-2
680+50	LT.	HWY. 65	20		108.96	11.99	44.49					
681+65	RT.	HWY. 65	16		87.84	9.66	35.87					
685+54	RT.	HWY. 65	26		126.87	13.96	51.81					
688+37	LT.	HWY. 65	16		76.98	8.47	31.43	28				PCC-1, PCM-1, PCP-1, PCP-2
694+86	LT.	HWY. 65	16		61.33	6.75	25.04	34				PCC-1, PCM-1, PCP-1, PCP-2
697+10	LT.	HWY. 65	16		87.54	9.63	35.75					
698+02	LT.	HWY. 65	16		104.78	11.53	42.79					
698+56	RT.	HWY. 65	24		124.20	13.66	50.72	44				PCC-1, PCM-1, PCP-1, PCP-2
699+14	LT.	HWY. 65	16		185.32	20.39	75.67					
701+74	LT.	HWY. 65	16		141.17	15.53	57.64					
702+87	LT.	HWY. 65	16		96.73	10.64	39.50		28			PCC-1, PCM-1, PCP-1, PCP-2
704+88	LT.	HWY. 65	16		88.34	9.72	36.07		28			PCC-1, PCM-1, PCP-1, PCP-2
SUBTOTALS (BOX 1 OF 2):				**595.36**	**14324.67**	**1575.74**	**5849.24**	**1952**	**540**	**144**	**28**	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8").....94.5% MIN. AGGR.....5.5% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

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.

STATE OF ARKANSAS — TIMOTHY D. SMITH — REGISTERED PROFESSIONAL ENGINEER — No. 11435 — 11-15-18

QUANTITIES

(2) QUANTITIES

DATE REVISED	DATE PLOTTED	DATE REVISED	DATE PLOTTED	FED.AID PROJ. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	CA080N	106	605

DRIVEWAYS & TURNOUTS (BOX 2 OF 2)

STATION	SIDE	LOCATION	WIDTH	PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (3/8") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)	SIDE DRAINS				STANDARD DRAWINGS
								18"	24"	30"	21"X15"	
			FEET	SQ. YD.	SQ. YD.	TON	TON	LIN. FT.				
705+45	LT.	HWY. 65	16		79.45	8.74	32.44		28			PCC-1, PCM-1, PCP-1, PCP-2
706+20	LT.	HWY. 65	16		86.58	9.52	35.35		28			PCC-1, PCM-1, PCP-1, PCP-2
706+93	LT.	HWY. 65	16		141.67	15.58	57.85		40			PCC-1, PCM-1, PCP-1, PCP-2
707+16	RT.	HWY. 65	36		177.56	19.53	72.50	48				PCC-1, PCM-1, PCP-1, PCP-2
710+96	RT.	HWY. 65	36		192.32	21.16	78.53	56				PCC-1, PCM-1, PCP-1, PCP-2
712+65	LT.	HWY. 65	16		106.12	11.67	43.33					
713+40	RT.	BIG GUN ROAD	20		133.19	14.65	54.39	40				PCC-1, PCM-1, PCP-1, PCP-2
715+50	RT.	HWY. 65	24		114.84	12.63	46.89	36				PCC-1, PCM-1, PCP-1, PCP-2
719+25	LT.	HWY. 65	20		108.96	11.99	44.49					
720+84	RT.	HWY. 65	40		159.31	17.52	65.05	50				PCC-1, PCM-1, PCP-1, PCP-2
723+00	RT.	HWY. 65	40		181.89	20.01	74.27	52				PCC-1, PCM-1, PCP-1, PCP-2
724+00	RT.	HWY. 65	30		156.87	17.26	64.06	48				PCC-1, PCM-1, PCP-1, PCP-2
726+55	LT.	HEMMING ROAD	20		160.35	17.64	65.48	44				PCC-1, PCM-1, PCP-1, PCP-2
726+70	RT.	HWY. 65	26		119.22	13.11	48.68					
734+70	LT.	HWY. 65	22		141.09	15.52	57.61					
735+93	RT.	FAYETTE ROAD	20		273.15	30.05	111.54					
737+00	RT.	HWY. 65	16		132.29	14.55	54.02					
739+14	RT.	HWY. 65	22		143.95	15.83	58.78					
741+10	RT.	HWY. 65	16		140.52	15.46	57.38					
752+04	LT.	HWY. 65	16	141.01								
759+00	LT.	HWY. 65	16		390.12	42.91	159.30		36			PCC-1, PCM-1, PCP-1, PCP-2
760+57	RT.	HWY. 65	30		350.60	38.57	143.16					
762+15	RT.	HWY. 65	22		241.36	26.55	98.56					
764+28	LT.	HWY. 65	16		92.43	10.17	37.74					
764+84	RT.	HWY. 65	22		315.33	34.69	128.76					
768+00	RT.	HWY. 65	16		320.29	35.23	130.79					
770+69	LT.	HWY. 65	16		90.97	10.01	37.15	44				PCC-1, PCM-1, PCP-1, PCP-2
775+72	LT.	HWY. 65	16		87.63	9.64	35.78	34				PCC-1, PCM-1, PCP-1, PCP-2
777+88	LT.	HWY. 65	22		132.07	14.53	53.93	40				PCC-1, PCM-1, PCP-1, PCP-2
778+94	RT.	HWY. 65	16		72.09	7.93	29.44				28	PCC-1, PCM-1, PCP-1, PCP-2
781+18	RT.	HWY. 65	18		78.40	8.62	32.01	34				PCC-1, PCM-1, PCP-1, PCP-2
782+02	LT.	HWY. 65	18		162.80	17.91	66.48	34				PCC-1, PCM-1, PCP-1, PCP-2
783+16	RT.	HWY. 65	16		71.13	7.82	29.04	28				PCC-1, PCM-1, PCP-1, PCP-2
785+06	RT.	HWY. 65	22		119.51	13.15	48.80					
786+04	RT.	HWY. 65	22		132.76	14.60	54.21	46				PCC-1, PCM-1, PCP-1, PCP-2
786+90	LT.	HWY. 65	16		103.47	11.38	42.25	38				PCC-1, PCM-1, PCP-1, PCP-2
788+32	RT.	HWY. 65	16		80.25	8.83	32.77	32				PCC-1, PCM-1, PCP-1, PCP-2
791+68	RT.	HWY. 65	16		101.51	11.17	41.45	40				PCC-1, PCM-1, PCP-1, PCP-2
792+56	RT.	HWY. 65	32		213.54	23.49	87.20	58				PCC-1, PCM-1, PCP-1, PCP-2
793+55	LT.	HWY. 65	16		100.94	11.10	41.22	42				PCC-1, PCM-1, PCP-1, PCP-2
796+38	RT.	HWY. 65	16		132.61	14.59	54.15	42				PCC-1, PCM-1, PCP-1, PCP-2
797+04	RT.	HWY. 65	16		132.61	14.59	54.15	40				PCC-1, PCM-1, PCP-1, PCP-2
797+76	LT.	HWY. 65	16		85.83	9.44	35.05	42				PCC-1, PCM-1, PCP-1, PCP-2
799+57	LT.	WATERGATE ROAD	20		180.08	19.81	73.53	48				PCC-1, PCM-1, PCP-1, PCP-2
799+57	RT.	HWY. 65	16		279.61	30.76	114.17					
803+48	LT.	HWY. 65	16		132.75	14.60	54.21		52			PCC-1, PCM-1, PCP-1, PCP-2
811+85	RT.	FAIRFAX ROAD	20		144.70	15.92	59.09	38				PCC-1, PCM-1, PCP-1, PCP-2
816+48	LT.	HWY. 65	16		96.98	10.67	39.60					
821+74	LT.	HWY. 65	16		125.25	13.78	51.14					
828+53	RT.	HWY. 65	16		159.11	17.50	64.97					
836+54	LT.	HWY. 65	16		94.19	10.36	38.46	34				PCC-1, PCM-1, PCP-1, PCP-2
841+36	RT.	HWY. 65	20		74.78	8.23	30.54					
844+25	RT.	HWY. 65	16		79.84	8.78	32.60					
847+54	RT.	HWY. 65	16		100.29	11.03	40.95	34				PCC-1, PCM-1, PCP-1, PCP-2
848+26	RT.	HWY. 65	16		103.61	11.40	42.31	42				PCC-1, PCM-1, PCP-1, PCP-2
848+50	LT.	HWY. 65	16		342.60	37.69	139.90	48				PCC-1, PCM-1, PCP-1, PCP-2
851+55	RT.	HWY. 65	16		111.95	12.31	45.71	36				PCC-1, PCM-1, PCP-1, PCP-2
852+00	LT.	HWY. 65	16		353.10	38.84	144.18	46				PCC-1, PCM-1, PCP-1, PCP-2
854+56	LT.	KIRKENDOLL ROAD	20		191.66	21.08	78.26	56				PCC-1, PCM-1, PCP-1, PCP-2
854+56	RT.	HWY. 65	16		342.95	37.72	140.04		88			PCC-1, PCM-1, PCP-1, PCP-2
855+68	LT.	HWY. 65	16		106.47	11.71	43.48	42				PCC-1, PCM-1, PCP-1, PCP-2
863+25	RT.	HWY. 65	16		105.26	11.58	42.98	28				PCC-1, PCM-1, PCP-1, PCP-2
866+62	RT.	HWY. 65	18		80.76	8.88	32.98	28				PCC-1, PCM-1, PCP-1, PCP-2
868+23	LT.	HWY. 65	16		73.80	8.12	30.14	28				PCC-1, PCM-1, PCP-1, PCP-2
868+80	LT.	HWY. 65	16		70.63	7.77	28.84					
869+80	LT.	HWY. 65	26		129.53	14.25	52.89	38				PCC-1, PCM-1, PCP-1, PCP-2
870+42	RT.	HWY. 65	20		92.00	10.12	37.57	32				PCC-1, PCM-1, PCP-1, PCP-2
871+41	RT.	HWY. 65	40		193.44	21.28	78.99	56				PCC-1, PCM-1, PCP-1, PCP-2
872+08	LT.	HWY. 65	16		115.73	12.73	47.26	44				PCC-1, PCM-1, PCP-1, PCP-2
876+75	LT.	HWY. 65	16		455.79	50.14	186.11	28				PCC-1, PCM-1, PCP-1, PCP-2
888+00	RT.	HWY. 65	20		386.74	42.54	157.92					
892+00	LT.	HWY. 65	16		185.51	20.41	75.75					
896+68	LT.	HWY. 65	16		72.85	8.01	29.75					
898+00	RT.	HWY. 65	16		114.51	12.60	46.76					
901+20	LT.	HWY. 65	16		80.36	8.84	32.81	28				PCC-1, PCM-1, PCP-1, PCP-2
902+55	RT.	HWY. 65	16		78.95	8.68	32.24					
902+74	LT.	HWY. 65	20		142.29	15.65	58.10	32				PCC-1, PCM-1, PCP-1, PCP-2
907+22	RT.	HWY. 65	38		187.07	20.58	76.39					
907+84	LT.	HWY. 65	16		68.82	7.57	28.10	28				PCC-1, PCM-1, PCP-1, PCP-2
908+60	RT.	HWY. 65	40		114.06	12.55	46.57					
909+50	RT.	HWY. 65	40		101.17	11.13	41.31					
911+18	LT.	HWY. 65	40		151.84	16.70	62.00	48				PCC-1, PCM-1, PCP-1, PCP-2
911+88	LT.	HWY. 65	24		91.67	10.08	37.43	34				PCC-1, PCM-1, PCP-1, PCP-2
912+52	RT.	HWY. 65	16		87.02	9.57	35.53		30			PCC-1, PCM-1, PCP-1, PCP-2
913+05	LT.	HWY. 65	16		73.49	8.08	30.01					
101+52	RT.	SKYHILL DRIVE	18		76.82	8.45	31.37	36				PCC-1, PCM-1, PCP-1, PCP-2
201+00	RT.	ISOM LANE	16		78.29	8.61	31.97	36				PCC-1, PCM-1, PCP-1, PCP-2
201+22	LT.	ISOM LANE	16		88.44	9.73	36.11	38				PCC-1, PCM-1, PCP-1, PCP-2
201+53	RT.	ISOM LANE	16		90.58	9.96	36.99	38				PCC-1, PCM-1, PCP-1, PCP-2
201+84	LT.	ISOM LANE	16		116.41	12.81	47.53	38				PCC-1, PCM-1, PCP-1, PCP-2
303+00	RT.	HENDERSON ROAD	16		58.35	6.42	23.83				28	PCC-1, PCM-1, PCP-1, PCP-2
402+00	RT.	NATURAL BRIDGE ROAD	16		77.01	8.47	31.45					
502+15	RT.	GLENN ROAD	16		168.66	18.55	68.87					
735+93	RT.	FAYETTE ROAD	16		58.19	6.40	23.76					
702+45	RT.	HWY. 110	20		80.43	8.85	32.84	30				PCC-1, PCM-1, PCP-1, PCP-2
* ENTIRE PROJECT TEMPORARY DRIVES							3180.00					
SUBTOTALS (BOX 1 OF 2):				**595.36**	**14324.67**	**1575.74**	**5849.24**	**1952**	**540**	**144**	**28**	
SUBTOTALS (BOX 2 OF 2):				**141.01**	**13523.97**	**1487.64**	**8702.32**	**2060**	**302**		**56**	
TOTALS:				**736.37**	**27848.64**	**3063.38**	**14551.56**	**4012**	**842**	**144**	**84**	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8").....94.5% MIN. AGGR.....5.5% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

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.

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 11435 — TIMOTHY D. SMITH — 11-15-18

QUANTITIES

(2) QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.AID PROJ.NO.	JOB NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	CA0801	ARK.		107	605

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	108	605

(2) QUANTITIES

STATE OF ARKANSAS
TRINITY D. SMITH
LICENSED PROFESSIONAL ENGINEER
No. 11425
11-15-18

BASE AND SURFACING (BOX 1 OF 3)

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT							ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (3/8")								
						(0.05 GAL. PER SQ. YD.)			(0.17 GAL. PER SQ. YD.)																
						TOTAL WID.			TOTAL WID.				AVG. WID.				AVG. WID.				AVG. WID.				TOTAL
			FEET	TON / STATION	TON	FEET	SQ.YD.	GALLON	FEET	SQ.YD.	GALLON	TOTAL GALLONS	FEET	SQ.YD.	POUND / SQ.YD.	PG 70-22 TON	FEET	SQ.YD.	POUND / SQ.YD.	PG 70-22 TON	FEET	SQ.YD.	POUND / SQ.YD.	PG 70-22 TON	PG 70-22 TON
MAIN LANES																									
497+04.36	499+12.36	HWY. 65 - C.C.C.& G. TRANSITION	208.00	207.50	431.60	118.41	2736.59	136.83				136.83	27.58	637.40	660.00	210.34	27.25	629.78	220.00	69.28	71.00	1640.89	220.00	180.50	249.78
499+12.36	499+37.36	HWY. 65 - C.C.C.& G. TRANSITION	25.00	397.75	99.44	118.41	328.92	16.45				16.45	27.58	76.61	660.00	25.28	27.25	75.69	220.00	8.33	79.00	219.44	220.00	24.14	32.47
499+37.36	501+56.00	HWY. 65 - NOTCH & WIDEN	218.64	361.00	789.29	118.41	2876.57	143.83				143.83	27.58	670.01	660.00	221.10	27.25	661.99	220.00	72.82	75.00	1822.00	220.00	200.42	273.24
501+56.00	522+50.00	HWY. 65 - FULL DEPTH	2094.00	547.75	11469.89	190.41	44302.06	2215.10				2215.10	63.58	14792.95	660.00	4881.67	63.25	14716.17	220.00	1618.78	75.00	17450.00	220.00	1919.50	3538.28
522+50.00	529+00.00	HWY. 65 - NOTCH & WIDEN	650.00	VAR.	2206.95	VAR.	9539.52	476.98				476.98	VAR.	2319.30	660.00	765.37	VAR.	2300.92	220.00	253.10	75.00	5416.67	220.00	595.83	848.93
529+00.00	551+50.00	HWY. 65 - NOTCH & WIDEN	2250.00	361.00	8122.50	118.41	29602.50	1480.13				1480.13	27.58	6895.00	660.00	2275.35	27.25	6812.50	220.00	749.38	75.00	18750.00	220.00	2062.50	2811.88
551+50.00	553+90.00	HWY. 65 - NOTCH & WIDEN	240.00	VAR.	793.51	VAR.	3189.52	159.48				159.48	VAR.	745.41	660.00	245.99	VAR.	738.70	220.00	81.26	75.00	2000.00	220.00	220.00	301.26
553+90.00	556+46.92	HWY. 65 - NOTCH & WIDEN	256.92	361.00	927.48	118.41	3380.21	169.01				169.01	27.58	787.32	660.00	259.82	27.25	777.90	220.00	85.57	75.00	2141.00	220.00	235.51	321.08
556+46.92	559+40.88	HWY. 65 - NOTCH & WIDEN	293.96	VAR.	1140.49	VAR.	5384.04	269.20				269.20	VAR.	1405.42	660.00	463.79	VAR.	1397.36	220.00	153.71	75.00	2449.67	220.00	269.46	423.17
559+40.88	563+70.83	HWY. 65 - FULL DEPTH	429.95	547.75	2355.05	190.41	9096.31	454.82				454.82	63.58	3037.36	660.00	1002.33	63.25	3021.59	220.00	332.37	75.00	3582.92	220.00	394.12	726.49
563+70.83	567+01.35	HWY. 65 - NOTCH & WIDEN	330.52	VAR.	1276.08	VAR.	18513.73	925.69				925.69	VAR.	1555.35	660.00	513.27	VAR.	14080.95	220.00	1548.90	75.00	2754.33	220.00	302.98	1851.88
567+01.35	568+75.00	HWY. 65 - NOTCH & WIDEN	173.65	361.00	626.88	118.41	2284.66	114.23				114.23	27.58	532.14	660.00	175.61	27.25	525.77	220.00	57.83	75.00	1447.08	220.00	159.18	217.01
568+75.00	570+00.00	HWY. 65 - FULL DEPTH, METHOD OF RAISING GRADE	125.00	361.00	451.25	190.41	2644.58	132.23				132.23	63.58	883.06	660.00	291.41	63.25	878.47	220.00	96.63	75.00	1041.67	220.00	114.58	211.21
570+00.00	572+50.00	HWY. 65 - FULL DEPTH	250.00	547.75	1369.38	190.41	5289.17	264.46				264.46	63.58	1766.11	660.00	582.82	63.25	1756.94	220.00	193.26	75.00	2083.33	220.00	229.17	422.43
572+50.00	577+50.00	HWY. 65 - NOTCH & WIDEN	500.00	VAR.	2239.08	VAR.	9662.62	483.13				483.13	VAR.	3081.42	660.00	1016.87	VAR.	3067.68	220.00	337.44	75.00	4166.67	220.00	458.33	795.77
577+50.00	581+00.00	HWY. 65 - FULL DEPTH	350.00	547.75	1917.13	190.41	7404.83	370.24				370.24	63.58	2472.56	660.00	815.94	63.25	2459.72	220.00	270.57	75.00	2916.67	220.00	320.83	591.40
581+00.00	584+55.33	HWY. 65 - NOTCH & WIDEN	355.33	VAR.	1191.30	VAR.	4901.34	245.07				245.07	VAR.	1204.31	660.00	397.42	VAR.	1190.33	220.00	130.94	75.00	2961.08	220.00	325.72	456.66
584+55.33	596+84.75	HWY. 65 - NOTCH & WIDEN	1229.42	361.00	4438.21	118.41	16175.07	808.75				808.75	27.58	3767.49	660.00	1243.27	27.25	3722.41	220.00	409.47	75.00	10245.17	220.00	1126.97	1536.44
596+84.75	602+50.00	HWY. 65 - NOTCH & WIDEN	565.25	VAR.	1873.62	VAR.	7991.73	399.59				399.59	VAR.	1911.23	660.00	630.71	VAR.	1893.69	220.00	208.31	75.00	4710.42	220.00	518.15	726.46
602+50.00	606+50.00	HWY. 65 - FULL DEPTH, METHOD OF RAISING GRADE	400.00	361.00	1444.00	190.41	8462.67	423.13				423.13	63.58	2825.78	660.00	932.51	63.25	2811.11	220.00	309.22	75.00	3333.33	220.00	366.67	675.89
606+50.00	608+68.45	HWY. 65 - NOTCH & WIDEN	218.45	361.00	788.60	118.41	2874.07	143.70				143.70	27.58	669.43	660.00	220.91	27.25	661.42	220.00	72.76	75.00	1820.42	220.00	200.25	273.01
608+68.45	609+25.00	HWY. 65 - NOTCH & WIDEN W/ FULL DEPTH SHLDR. RT.	56.55	329.75	186.47	136.41	857.11	42.86				42.86	33.58	210.99	660.00	69.63	33.25	208.92	220.00	22.98	75.00	471.25	220.00	51.84	74.82
609+25.00	620+00.00	HWY. 65 - FULL DEPTH W/ FULL DEPTH SHLDR. RT.	1075.00	516.50	5552.38	208.41	24893.42	1244.67				1244.67	69.58	8310.94	660.00	2742.61	69.25	8271.53	220.00	909.87	75.00	8958.33	220.00	985.42	1895.29
620+00.00	620+76.00	HWY. 65 - FULL DEPTH W/ FULL DEPTH SHLDR. RT. & METHOD OF RAISING	76.00	329.75	250.61	190.41	1607.91	80.40				80.40	63.58	536.90	660.00	177.18	63.25	534.11	220.00	58.75	75.00	633.33	220.00	69.67	128.42
620+76.00	622+00.00	HWY. 65 - FULL DEPTH, METHOD OF RAISING GRADE	124.00	361.00	447.64	190.41	2623.43	131.17				131.17	63.58	875.99	660.00	289.08	63.25	871.44	220.00	95.86	75.00	1033.33	220.00	113.67	209.53
622+00.00	625+85.00	HWY. 65 - NOTCH & WIDEN	385.00	361.00	1389.85	118.41	5065.32	253.27				253.27	27.58	1179.81	660.00	389.34	27.25	1165.69	220.00	128.23	75.00	3208.33	220.00	352.92	481.15
625+85.00	630+09.83	HWY. 65 - FULL DEPTH	424.83	547.75	2327.01	190.41	8987.99	449.40				449.40	63.58	3001.19	660.00	990.39	63.25	2985.61	220.00	328.42	75.00	3540.25	220.00	389.43	717.85
630+09.83	644+20.19	HWY. 65 - FULL DEPTH W/ FULL DEPTH SHLDR. LT.	1410.36	361.00	5091.40	136.41	21376.36	1068.82				1068.82	33.58	5262.21	660.00	1736.53	33.25	5210.50	220.00	573.16	75.00	11753.00	220.00	1292.83	1865.99
644+20.19	645+00.00	HWY. 65 - FULL DEPTH	79.81	547.75	437.16	190.41	1688.51	84.43				84.43	63.58	563.81	660.00	186.06	63.25	560.89	220.00	61.70	75.00	665.08	220.00	73.16	134.86
645+00.00	674+83.65	HWY. 65 - NOTCH & WIDEN	2983.65	361.00	10770.98	118.41	39254.89	1962.74				1962.74	27.58	9143.23	660.00	3017.27	27.25	9033.83	220.00	993.72	75.00	24863.75	220.00	2735.01	3728.73
675+00.00	707+00.00	HWY. 65 - NOTCH & WIDEN	3200.00	361.00	11552.00	118.41	42101.33	2105.07				2105.07	27.58	9806.22	660.00	3236.05	27.25	9688.89	220.00	1065.78	75.00	26666.67	220.00	2933.33	3999.11
707+00.00	709+00.00	HWY. 65 - FULL DEPTH, METHOD OF RAISING GRADE	200.00	361.00	722.00	190.41	4231.33	211.57				211.57	63.58	1412.89	660.00	466.25	63.25	1405.56	220.00	154.61	75.00	1666.67	220.00	183.33	337.94
709+00.00	718+00.00	HWY. 65 - NOTCH & WIDEN	900.00	361.00	3249.00	118.41	11841.00	592.05				592.05	27.58	2758.00	660.00	910.14	27.25	2725.00	220.00	299.75	75.00	7500.00	220.00	825.00	1124.75
718+00.00	723+00.00	HWY. 65 - FULL DEPTH, METHOD OF RAISING GRADE	500.00	361.00	1805.00	190.41	10578.33	528.92				528.92	63.58	3532.22	660.00	1165.63	63.25	3513.89	220.00	386.53	75.00	4166.67	220.00	458.33	844.86
723+00.00	768+00.00	HWY. 65 - NOTCH & WIDEN	4500.00	361.00	16245.00	118.41	59205.00	2960.25				2960.25	27.58	13790.00	660.00	4550.70	27.25	13625.00	220.00	1498.75	75.00	37500.00	220.00	4125.00	5623.75
768+00.00	827+00.00	HWY. 65 - NOTCH & WIDEN	5900.00	423.00	24957.00	154.41	101224.33	5061.22				5061.22	39.58	25946.89	660.00	8562.47	39.25	25730.56	220.00	2830.36	75.00	49166.67	220.00	5408.33	8238.69
827+00.00	829+00.00	HWY. 65 - FULL DEPTH, METHOD OF RAISING GRADE	200.00	423.00	846.00	190.41	4231.33	211.57				211.57	63.58	1412.89	660.00	466.25	63.25	1405.56	220.00	154.61	75.00	1666.67	220.00	183.33	337.94
829+00.00	831+51.32	HWY. 65 - NOTCH & WIDEN	251.32	423.00	1063.08	154.41	4311.81	215.59				215.59	39.58	1105.25	660.00	364.73	39.25	1096.03	220.00	120.56	75.00	2094.33	220.00	230.38	350.94
831+51.32	839+54.85	HWY. 65 - NOTCH & WIDEN	803.53	VAR.	3222.56	VAR.	14145.88	707.29				707.29	VAR.	4047.60	660.00	1335.71	VAR.	4023.36	220.00	442.57	75.00	6696.08	220.00	736.57	1179.14
839+54.85	908+50.00	HWY. 65 - NOTCH & WIDEN	6895.15	361.00	24891.49	118.41	90717.19	4535.86				4535.86	27.58	21129.80	660.00	6972.83	27.25	20876.98	220.00	2296.47	75.00	57459.58	220.00	6320.55	8617.02
908+50.00	912+34.50	HWY. 65 - NOTCH & WIDEN	384.50	361.00	1388.05	118.41	5058.74	252.94				252.94	27.58	1178.28	660.00	388.83	27.25	1164.18	220.00	128.06	75.00	3204.17	220.00	352.46	480.52
912+34.50	913+34.50	HWY. 65 - TRANSITION	100.00	180.50	180.50																63.50	705.56	220.00	77.61	77.61
100+14.62	102+15.10	SKYHILL DRIVE	200.48	109.75	220.03																20.00	445.51	220.00	49.01	49.01
102+15.10	102+47.10	SKYHILL DRIVE TURNOUT	32.00	VAR.	64.01																VAR.	141.88	220.00	15.61	15.61
200+00.00	202+73.04	ISOM LANE	273.04	109.75	299.66																20.00	606.76	220.00	66.74	66.74
202+73.04	203+05.04	ISOM LANE TURNOUT	32.00	VAR.	64.01																VAR.	141.88	220.00	15.61	15.61
300+37.50	300+69.50	HENDERSON ROAD TURNOUT	32.00	VAR.	64.01																VAR.	141.88	220.00	15.61	15.61
300+69.50	303+38.91	HENDERSON ROAD	269.41	109.75	295.68																20.00	598.69	220.00	65.86	65.86
400+37.50	400+69.50	NATURAL BRIDGE ROAD TURNOUT	32.00	VAR.	64.01																VAR.	141.88	220.00	15.61	15.61
400+69.50	402+76.08	NATURAL BRIDGE ROAD	206.58	109.75	226.72																20.00	459.07	220.00	50.50	50.50
SUBTOTALS (BOX 1 OF 3):					**163825.04**		**650641.92**	**32532.14**				**32532.14**		**167240.77**		**55189.46**		**178278.62**		**19610.67**		**349250.03**		**38417.53**	**58028.20**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8").....94.5% MIN. AGGR.....5.5% ASPHALT BINDER
ACHM BINDER COURSE (1").....95.4% MIN. AGGR.....4.6% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

11/13/2018

RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	109	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

BASE AND SURFACING (BOX 2 OF 3)

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT							ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (3/8")								
						(0.05 GAL. PER SQ. YD.)			(0.17 GAL. PER SQ. YD.)																
				TON / STATION	TON	TOTAL WID.	SQ.YD.	GALLON	TOTAL WID.	SQ.YD.	GALLON	TOTAL GALLONS	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 70-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 70-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 70-22	TOTAL PG 70-22
			FEET			FEET			FEET				FEET			TON	FEET			TON	FEET			TON	TON
MAIN LANES																									
500+71.97	502+83.40	GLENN ROAD	211.43	109.75	232.04																20.00	469.84	220.00	51.68	51.68
502+83.40	503+15.40	GLENN ROAD TURNOUT	32.00	VAR.	64.01																VAR.	141.88	220.00	15.61	15.61
600+37.50	600+69.50	DEAD END ROAD TURNOUT	32.00	VAR.	64.01																VAR.	141.88	220.00	15.61	15.61
600+69.50	602+38.61	DEAD END ROAD	169.11	109.75	185.60																20.00	375.80	220.00	41.34	41.34
700+37.50	701+29.50	HWY. 110 TURNOUT	92.00	VAR.	281.58	VAR.	850.33	42.52				42.52	VAR.	149.12	660.00	49.21	VAR.	145.33	220.00	15.99	VAR.	748.23	220.00	82.31	98.30
701+29.50	705+22.42	HWY. 110	392.92	VAR.	800.95	VAR.	1247.49	62.37				62.37	VAR.	185.34	660.00	61.16	VAR.	175.51	220.00	19.31	32.00	1397.05	220.00	153.68	172.99
705+22.42	706+22.42	HWY. 110 TRANSITION	100.00	91.50	91.50																26.00	288.89	220.00	31.78	31.78
ADDITIONAL FOR LEVELING AND METHOD OF RAISING GRADE																									
497+04.36	501+56.00	HWY. 65 - LEVELING	451.64			36.00	3613.12	180.66	36.00	1806.56	307.12	487.78	36.00	1806.56	VAR.	836.45	36.00	1806.56	VAR.	198.72					198.72
522+50.00	559+40.88	HWY. 65 - LEVELING	3690.88			36.00	29527.04	1476.35	36.00	14763.52	2509.80	3986.15	36.00	14763.52	VAR.	4736.68	36.00	14763.52	VAR.	1623.99					1623.99
563+70.83	568+75.00	HWY. 65 - LEVELING	504.17			36.00	2016.68	100.83	36.00	2016.68	342.84	443.67	36.00	2016.68	VAR.	429.40	36.00	2016.68	VAR.	221.83					221.83
568+75.00	570+00.00	HWY. 65 - METHOD OF RAISING GRADE	125.00			36.00	2000.00	100.00	36.00	500.00	85.00	185.00	36.00	500.00	VAR.	347.71	36.00	500.00	VAR.	55.00					55.00
572+50.00	577+50.00	HWY. 65 - LEVELING	500.00						36.00	2000.00	340.00	340.00					36.00	2000.00	VAR.	340.53					340.53
581+00.00	602+50.00	HWY. 65 - LEVELING	2150.00			36.00	17200.00	860.00	36.00	8600.00	1462.00	2322.00	36.00	8600.00	VAR.	2487.64	36.00	8600.00	VAR.	946.00					946.00
602+50.00	606+50.00	HWY. 65 - METHOD OF RAISING GRADE	400.00			36.00	6400.00	320.00	36.00	1600.00	272.00	592.00	36.00	1600.00	VAR.	1144.67	36.00	1600.00	VAR.	176.00					176.00
606+50.00	609+25.00	HWY. 65 - LEVELING	275.00			36.00	2200.00	110.00	36.00	1100.00	187.00	297.00	36.00	1100.00	VAR.	562.47	36.00	1100.00	VAR.	121.00					121.00
620+00.00	622+00.00	HWY. 65 - METHOD OF RAISING GRADE	200.00			36.00	3200.00	160.00	36.00	800.00	136.00	296.00	36.00	800.00	VAR.	693.04	36.00	800.00	VAR.	88.00					88.00
622+00.00	625+85.00	HWY. 65 - LEVELING	385.00			36.00	3080.00	154.00	36.00	1540.00	261.80	415.80	36.00	1540.00	VAR.	326.61	36.00	1540.00	VAR.	169.40					169.40
645+00.00	707+00.00	HWY. 65 - LEVELING	6200.00			36.00	49600.00	2480.00	36.00	24800.00	4216.00	6696.00	36.00	24800.00	VAR.	11756.50	36.00	24800.00	VAR.	2728.00					2728.00
707+00.00	709+00.00	HWY. 65 - METHOD OF RAISING GRADE	200.00			36.00	3200.00	160.00	36.00	800.00	136.00	296.00	36.00	800.00	VAR.	497.90	36.00	800.00	VAR.	88.00					88.00
709+00.00	718+00.00	HWY. 65 - LEVELING	900.00			36.00	10800.00	540.00	36.00	3600.00	612.00	1152.00	36.00	3600.00	VAR.	2144.60	36.00	3600.00	VAR.	396.00					396.00
718+00.00	723+00.00	HWY. 65 - METHOD OF RAISING GRADE	500.00			36.00	8000.00	400.00	36.00	2000.00	340.00	740.00	36.00	2000.00	VAR.	1206.98	36.00	2000.00	VAR.	220.00					220.00
723+00.00	827+00.00	HWY. 65 - LEVELING	10400.00			36.00	124800.00	6240.00	36.00	41600.00	7072.00	13312.00	36.00	41600.00	VAR.	25865.40	36.00	41600.00	VAR.	4576.00					4576.00
827+00.00	829+00.00	HWY. 65 - METHOD OF RAISING GRADE	200.00			36.00	3200.00	160.00	36.00	800.00	136.00	296.00	36.00	800.00	VAR.	485.37	36.00	800.00	VAR.	88.00					88.00
829+00.00	912+34.50	HWY. 65 - LEVELING	8334.50			36.00	66676.00	3333.80	36.00	33338.00	5667.46	9001.26	36.00	33338.00	VAR.	8685.22	36.00	33338.00	VAR.	3667.18					3667.18
ADDITIONAL FOR CONCRETE CURB AND GUTTER																									
509+25.00	512+15.00	HWY. 65 - RT.	290.00	52.50	152.25																				
509+50.00	511+80.00	HWY. 65 - LT.	230.00	52.50	120.75																				
514+65.00	517+05.00	HWY. 65 - RT.	240.00	52.50	126.00																				
518+60.00	521+00.00	HWY. 65 - RT.	240.00	52.50	126.00																				
659+50.00	666+00.00	HWY. 65 - LT.	650.00	52.50	341.25																				
751+14.00	753+41.00	HWY. 65 - LT.	227.00	52.50	119.18																				
763+95.00	766+75.00	HWY. 65 - LT.	280.00	52.50	147.00																				
ADDITIONAL FOR SUPERELEVATION																									
497+04.36	503+34.36	SUPERELEVATION TRANSITION	630.00	91.75	578.03																				
503+34.36	507+59.44	MAXIMUM SUPERELEVATION	425.08	183.25	778.96																				
507+59.44	513+89.44	SUPERELEVATION TRANSITION	630.00	91.75	578.03																				
513+89.44	520+19.44	SUPERELEVATION TRANSITION	630.00	73.50	463.05																				
520+19.44	530+91.27	MAXIMUM SUPERELEVATION	1071.83	146.75	1572.91																				
530+91.27	537+21.27	SUPERELEVATION TRANSITION	630.00	73.50	463.05																				
548+75.58	554+15.58	SUPERELEVATION TRANSITION	540.00	65.25	352.35																				
554+15.58	556+69.05	MAXIMUM SUPERELEVATION	253.47	130.25	330.14																				
556+69.05	562+09.05	SUPERELEVATION TRANSITION	540.00	65.25	352.35																				
536+09.05	567+49.05	SUPERELEVATION TRANSITION	3140.00	26.50	832.10																				
567+49.05	567+77.41	MAXIMUM SUPERELEVATION	28.36	52.75	14.96																				
567+77.41	573+17.41	SUPERELEVATION TRANSITION	540.00	26.50	143.10																				
573+17.41	579+47.41	SUPERELEVATION TRANSITION	630.00	91.75	578.03																				
579+47.41	579+57.58	MAXIMUM SUPERELEVATION	10.17	183.25	18.64																				
579+57.58	585+87.58	SUPERELEVATION TRANSITION	630.00	91.75	578.03																				
585+87.58	592+17.58	SUPERELEVATION TRANSITION	630.00	81.25	511.88																				
592+17.58	592+32.84	MAXIMUM SUPERELEVATION	15.26	162.25	24.76																				
592+32.84	598+62.84	SUPERELEVATION TRANSITION	630.00	81.25	511.88																				
598+62.84	604+02.84	SUPERELEVATION TRANSITION	540.00	46.75	252.45																				
604+02.84	605+16.66	MAXIMUM SUPERELEVATION	113.82	93.25	106.14																				
605+16.66	610+56.66	SUPERELEVATION TRANSITION	540.00	46.75	252.45																				
610+56.66	616+86.66	SUPERELEVATION TRANSITION	630.00	73.50	463.05																				
616+86.66	622+06.95	MAXIMUM SUPERELEVATION	520.29	146.75	763.53																				
622+06.95	628+36.95	SUPERELEVATION TRANSITION	630.00	73.50	463.05																				
SUBTOTALS (BOX 2 OF 3):					**13835.04**		**337610.66**	**16880.53**		**141664.76**	**24083.02**	**40963.55**		**139999.22**		**62317.01**		**141985.60**		**15738.95**		**3563.57**		**392.01**	**16130.96**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8").....94.5% MIN. AGGR.....5.5% ASPHALT BINDER
ACHM BINDER COURSE (1").....95.4% MIN. AGGR.....4.6% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

11/13/2018

RCA0801.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	110	605

(2) QUANTITIES

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

BASE AND SURFACING (BOX 3 OF 3)

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT							ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (3/8")								
						(0.05 GAL. PER SQ. YD.)			(0.17 GAL. PER SQ. YD.)																
				TON / STATION	TON	TOTAL WID.	SQ.YD.	GALLON	TOTAL WID.	SQ.YD.	GALLON	TOTAL GALLONS	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 70-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 70-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 70-22	TOTAL PG 70-22
			FEET			FEET			FEET				FEET			TON	FEET			TON	FEET			TON	TON
ADDITIONAL FOR SUPERELEVATION																									
628+36.95	633+76.95	SUPERELEVATION TRANSITION	540.00	51.00	275.40																				
633+76.95	636+19.06	MAXIMUM SUPERELEVATION	242.11	102.00	246.95																				
636+19.06	641+59.06	SUPERELEVATION TRANSITION	540.00	51.00	275.40																				
655+45.54	661+75.54	SUPERELEVATION TRANSITION	630.00	81.25	511.88																				
661+75.54	672+45.87	MAXIMUM SUPERELEVATION	1070.33	162.25	1736.61																				
672+45.87	678+92.22	SUPERELEVATION TRANSITION	630.00	81.25	511.88																				
681+72.52	687+12.52	SUPERELEVATION TRANSITION	540.00	60.00	324.00																				
687+12.52	697+26.60	MAXIMUM SUPERELEVATION	1014.08	119.75	1214.36																				
697+26.60	702+66.60	SUPERELEVATION TRANSITION	540.00	60.00	324.00																				
702+66.60	708+96.60	SUPERELEVATION TRANSITION	630.00	87.75	552.83																				
708+96.60	712+42.92	MAXIMUM SUPERELEVATION	346.32	175.50	607.79																				
712+42.92	718+72.92	SUPERELEVATION TRANSITION	630.00	87.75	552.83																				
723+42.31	728+82.31	SUPERELEVATION TRANSITION	540.00	30.25	163.35																				
728+82.31	734+06.56	MAXIMUM SUPERELEVATION	524.25	60.50	317.17																				
734+06.56	739+46.56	SUPERELEVATION TRANSITION	540.00	30.25	163.35																				
747+22.41	752+62.41	SUPERELEVATION TRANSITION	540.00	38.50	207.90																				
752+62.41	762+71.26	MAXIMUM SUPERELEVATION	1008.85	77.00	776.81																				
762+71.26	768+11.26	SUPERELEVATION TRANSITION	540.00	38.50	207.90																				
768+11.26	773+51.26	SUPERELEVATION TRANSITION	540.00	46.75	252.45																				
773+51.26	777+35.26	MAXIMUM SUPERELEVATION	384.00	93.25	358.08																				
777+35.26	782+75.26	SUPERELEVATION TRANSITION	540.00	46.75	252.45																				
792+10.20	797+50.20	SUPERELEVATION TRANSITION	540.00	65.25	352.35																				
797+50.20	805+69.10	MAXIMUM SUPERELEVATION	818.90	130.25	1066.62																				
805+69.10	811+09.10	SUPERELEVATION TRANSITION	540.00	65.25	352.35																				
811+09.10	816+49.10	SUPERELEVATION TRANSITION	540.00	60.00	324.00																				
816+49.10	816+71.71	MAXIMUM SUPERELEVATION	22.61	119.75	27.08																				
816+71.71	822+11.71	SUPERELEVATION TRANSITION	540.00	60.00	324.00																				
822+11.71	828+41.71	SUPERELEVATION TRANSITION	630.00	87.75	552.83																				
828+41.71	829+53.24	MAXIMUM SUPERELEVATION	111.53	175.50	195.74																				
829+53.24	835+83.24	SUPERELEVATION TRANSITION	630.00	87.75	552.83																				
835+83.24	842+13.24	SUPERELEVATION TRANSITION	630.00	87.75	552.83																				
842+13.24	849+25.30	MAXIMUM SUPERELEVATION	712.06	175.50	1249.67																				
849+25.30	855+55.30	SUPERELEVATION TRANSITION	630.00	87.75	552.83																				
855+55.30	860+95.30	SUPERELEVATION TRANSITION	540.00	70.25	379.35																				
860+95.30	861+87.03	MAXIMUM SUPERELEVATION	91.73	140.25	128.65																				
861+87.03	867+27.03	SUPERELEVATION TRANSITION	540.00	70.25	379.35																				
867+27.03	872+67.03	SUPERELEVATION TRANSITION	540.00	65.25	352.35																				
872+67.03	875+49.69	MAXIMUM SUPERELEVATION	282.66	130.25	368.16																				
875+49.69	880+89.69	SUPERELEVATION TRANSITION	540.00	65.25	352.35																				
884+99.95	890+39.95	SUPERELEVATION TRANSITION	540.00	30.25	163.35																				
890+39.95	894+20.00	MAXIMUM SUPERELEVATION	380.05	60.50	229.93																				
894+20.00	899+60.00	SUPERELEVATION TRANSITION	540.00	30.25	163.35																				
SUBTOTALS (BOX 1 OF 3):					**163825.04**		**650641.92**	**32532.14**				**32532.14**		**167240.77**		**55189.46**		**178278.62**		**19610.67**		**349250.03**		**38417.53**	**58028.20**
SUBTOTALS (BOX 2 OF 3):					**13835.04**		**337610.66**	**16880.53**		**141664.76**	**24083.02**	**40963.55**		**139999.22**		**62317.01**		**141985.60**		**15738.95**		**3563.57**		**392.01**	**16130.96**
SUBTOTALS (BOX 3 OF 3):					**18453.36**																				
TOTALS:					**196113.44**		**988252.58**	**49412.67**		**141664.76**	**24083.02**	**73495.69**		**307239.99**		**117506.47**		**320264.22**		**35349.62**		**352813.60**		**38809.54**	**74159.16**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8").....94.5% MIN. AGGR.....5.5% ASPHALT BINDER
ACHM BINDER COURSE (1").....95.4% MIN. AGGR.....4.6% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

11/13/2018

RCA0801.DGN

QUANTITIES

SUMMARY OF QUANTITIES (BOX 1 OF 2)

ITEM NUMBER	ITEM		QUANTITY	UNIT
201	CLEARING		390	STATION
201	GRUBBING		390	STATION
202	REMOVAL AND DISPOSAL OF CURB		415	LIN. FT.
202	REMOVAL AND DISPOSAL OF BRICK COLUMNS		2	EACH
202	REMOVAL AND DISPOSAL OF WELL		1	EACH
202	REMOVAL AND DISPOSAL OF FENCE		11899	LIN. FT.
202	REMOVAL AND DISPOSAL OF GATES		2	EACH
202	REMOVAL AND DISPOSAL OF ROCK WALLS		470	LIN. FT.
202	REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS		62	SQ. YD.
202	REMOVAL AND DISPOSAL OF CONCRETE SLABS		42	SQ. YD.
202	REMOVAL AND DISPOSAL OF SIGN FOUNDATIONS		37	EACH
202	REMOVAL AND DISPOSAL OF DROP INLETS		1	EACH
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS		115	EACH
202	REMOVAL AND DISPOSAL OF GUARDRAIL		275	LIN. FT.
202	REMOVAL AND DISPOSAL OF BUILDINGS		5	EACH
202	REMOVAL AND DISPOSAL OF ROCK COLUMNS		1	EACH
202	REMOVAL AND DISPOSAL OF SATELLITE DISH		1	EACH
202	REMOVAL AND DISPOSAL OF CATTLE GUARD		1	EACH
202	REMOVAL AND DISPOSAL OF SIGNS		22	EACH
202	REMOVAL AND DISPOSAL OF PLANTERS		3	EACH
202	REMOVAL AND DISPOSAL OF CANOPY		1	EACH
202	REMOVAL AND DISPOSAL OF WATER SPIGOT		2	EACH
206	FLOWABLE SELECT MATERIAL		30	CU. YD.
210	UNCLASSIFIED EXCAVATION		472629	CU. YD.
210	COMPACTED EMBANKMENT		392846	CU. YD.
SP & 210	SOIL STABILIZATION		50	TON
SS & 303	AGGREGATE BASE COURSE (CLASS 7)		210665	TON
SS & 401	TACK COAT		73896	GAL.
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")		112101	TON
SP, SS, & 406	ASPHALT BINDER (PG 70-22) IN ACHM BINDER COURSE (1")		5405	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")		72975	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")		168	TON
SP, SS, & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (3/8")		4079	TON
412	COLD MILLING ASPHALT PAVEMENT		1022	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC		200	TON
SP, SS, & 415	ACHM PATCHING OF EXISTING ROADWAY		100	TON
SS & 505	PORTLAND CEMENT CONCRETE DRIVEWAY		736.37	SQ. YD.
601	MOBILIZATION		1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE		1	EACH
603	MAINTENANCE OF TRAFFIC		1.00	LUMP SUM
603	18" TEMPORARY CULVERT		284	LIN. FT.
603	24" TEMPORARY CULVERT		200	LIN. FT.
SS & 604	SIGNS		1074	SQ. FT.
SP, SS, & 604	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE		10	EACH
SS & 604	TRAFFIC DRUMS		2604	EACH
604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		1106	LIN. FT.
604	RELOCATING PRECAST CONCRETE BARRIER		1106	LIN. FT.
604	CONSTRUCTION PAVEMENT MARKINGS		270735	LIN. FT.
604	CONSTRUCTION PAVEMENT MARKINGS (ARROWS)		4	EACH
604	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS		9633	LIN. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS		54691	LIN. FT.
SS & 604	VERTICAL PANELS		192	EACH
SS & 605	CONCRETE DITCH PAVING (TYPE B)		13519	SQ. YD.
* 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	292	LIN. FT.
* 606	18" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE	(ALTERNATE NO. 2)	300	LIN. FT.
606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		4446	LIN. FT.
* 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	522	LIN. FT.
* 606	24" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE	(ALTERNATE NO. 2)	540	LIN. FT.
606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)		1178	LIN. FT.
606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		534	LIN. FT.
606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)		288	LIN. FT.
SP & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)		164	LIN. FT.
606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		140	LIN. FT.
SP & 606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)		146	LIN. FT.
SP, SS, & 606	18" SIDE DRAIN		4404	LIN. FT.
SP, SS, & 606	24" SIDE DRAIN		950	LIN. FT.
SP, SS, & 606	30" SIDE DRAIN		144	LIN. FT.
SS & 606	21" X 15" SIDE DRAIN		118	LIN. FT.
* 606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	(ALTERNATE NO. 1)	4	EACH
* 606	18" FLARED END SECTIONS FOR CORRUGATED STEEL PIPE CULVERTS	(ALTERNATE NO. 2)	4	EACH
606	24" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS		101	EACH
* 606	24" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	(ALTERNATE NO. 1)	6	EACH
* 606	24" FLARED END SECTIONS FOR CORRUGATED STEEL PIPE CULVERTS	(ALTERNATE NO. 2)	6	EACH
606	30" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS		14	EACH
606	36" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS		4	EACH
606	SELECTED PIPE BEDDING		300	CU. YD.
609	DROP INLETS (TYPE ST)		7	EACH
SS & 609	JUNCTION BOXES (TYPE E)		1	EACH
SS & 611	4" PIPE UNDERDRAINS		21000	LIN. FT.
SS & 611	UNDERDRAIN OUTLET PROTECTORS		84	EACH
615	PAVEMENT REPAIR OVER CULVERTS (CONCRETE)		449.0	CU. YD.
619	WIRE FENCE (TYPE C)		5508	LIN. FT.
619	WIRE FENCE (TYPE D)		2024	LIN. FT.
619	WIRE FENCE (TYPE D-1)		1496	LIN. FT.
* 619	4' STEEL CHAIN LINK FENCE	(ALTERNATE NO. 1)	98	LIN. FT.
* 619	4' ALUMINUM CHAIN LINK FENCE	(ALTERNATE NO. 2)	98	LIN. FT.
* 619	5' STEEL CHAIN LINK FENCE	(ALTERNATE NO. 1)	285	LIN. FT.
* 619	5' ALUMINUM CHAIN LINK FENCE	(ALTERNATE NO. 2)	285	LIN. FT.
* 619	16' STEEL GATES	(ALTERNATE NO. 1)	4	EACH
* 619	16' ALUMINUM GATES	(ALTERNATE NO. 2)	4	EACH
* 619	18' STEEL GATES	(ALTERNATE NO. 1)	2	EACH
* 619	18' ALUMINUM GATES	(ALTERNATE NO. 2)	2	EACH
620	LIME		257	TON
620	SEEDING		128.43	ACRE
SS & 620	MULCH COVER		519.71	ACRE
620	WATER		21203.0	M. GAL.
621	TEMPORARY SEEDING		391.28	ACRE
621	SILT FENCE		67250	LIN. FT.
621	SAND BAG DITCH CHECKS		14713	BAG
621	DIVERSION DITCH		6950	LIN. FT.
621	DROP INLET SILT FENCE		220	LIN. FT.
621	SEDIMENT BASIN		11058	CU. YD.
621	OBLITERATION OF SEDIMENT BASIN		11058	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL		15336	CU. YD.
621	PIPE FOR SLOPE DRAINS		1200	LIN. FT.
621	ROCK DITCH CHECKS		3327	CU. YD.
621	TRIANGULAR SILT DIKE		1294	LIN. FT.
623	SECOND SEEDING APPLICATION		128.43	ACRE
624	SOLID SODDING		9615	SQ. YD.
626	EROSION CONTROL MATTING (CLASS 3)		4106	SQ. YD.
SS & 632	CONCRETE ISLAND		444	SQ. YD.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")		416	LIN. FT.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE B-1) (1' 6")		2157	LIN. FT.
635	ROADWAY CONSTRUCTION CONTROL		1.00	LUMP SUM
637	MAILBOXES		116	EACH
637	MAILBOX SUPPORTS (SINGLE)		84	EACH
637	MAILBOX SUPPORTS (DOUBLE)		16	EACH
642	RUMBLE STRIPS IN ASPHALT SHOULDERS		59222	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")		3399	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (10")		255	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")		3399	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")		105500	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (8")		857	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")		12	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")		108927	LIN. FT.

* DENOTES ALTERNATE BID ITEMS.

SUMMARY OF QUANTITIES

1-9-19

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12-12-18			
01-09-19			

(2) SUMMARY OF QUANTITIES

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		111	605

JOB NO. CA0801

SUMMARY OF QUANTITIES (BOX 2 OF 2)

ITEM NUMBER	ITEM	QUANTITY	UNIT
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (8")	1581	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (WORDS)	6	EACH
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	14	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	2059	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER	4	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	4	EACH
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-ROADWAY	54	CU. YD.
SS & 802	CLASS S CONCRETE-ROADWAY	75.03	CU. YD.
804	REINFORCING STEEL-ROADWAY (GRADE 60)	8002	POUND
816	FILTER BLANKET	47947	SQ. YD.
816	DUMPED RIPRAP	24017	CU. YD.
SP	4" STEEL ENCASEMENT PIPE	70	LIN. FT.
SP	8" STEEL ENCASEMENT PIPE	220	LIN. FT.
SP	10" STEEL ENCASEMENT PIPE	120	LIN. FT.
SP	12" STEEL ENCASEMENT PIPE	40	LIN. FT.
SP	14" STEEL ENCASEMENT PIPE	220	LIN. FT.
SP	8" STEEL ENCASEMENT PIPE ON EXISTING PIPE	40	LIN. FT.
SP	14" STEEL ENCASEMENT PIPE ON EXISTING PIPE	80	LIN. FT.
SP	2" PVC ENCASEMENT PIPE	40	LIN. FT.
SP	4" PVC ENCASEMENT PIPE	1010	LIN. FT.
SP	6" PVC ENCASEMENT PIPE	40	LIN. FT.
SP	8" PVC ENCASEMENT PIPE	480	LIN. FT.
SP	10" PVC ENCASEMENT PIPE	200	LIN. FT.
SP	15" PVC ENCASEMENT PIPE	2000	LIN. FT.
SP	2" PVC SDR-17 WATER MAIN	10589	LIN. FT.
SP	3" PVC SDR-17 WATER MAIN	567	LIN. FT.
SP	4" PVC SDR-17 WATER MAIN	10386	LIN. FT.
SP	2" CERTA-LOC YELOMINE SDR 17	520	LIN. FT.
SP	3" CERTA-LOC YELOMINE SDR 17	540	LIN. FT.
SP	4" CERTA-LOC YELOMINE SDR 17	350	LIN. FT.
SP	4" PVC DR-18 WATER MAIN	5	LIN. FT.
SP	6" PVC DR-18 WATER MAIN	6002	LIN. FT.
SP	8" PVC DR-18 WATER MAIN	29990	LIN. FT.
SP	6" CERTA-LOC DR 18	600	LIN. FT.
SP	8" CERTA-LOC DR 18	890	LIN. FT.
SP	REMOVAL AND DISPOSAL OF FLUSHING HYDRANT	25	EACH
SP	2" X 2" TAPPING SLEEVE, 2" TAPPING VALVE WITH BOX	4	EACH
SP	3" X 3" TAPPING SLEEVE, 3" TAPPING VALVE WITH BOX	1	EACH
SP	4" X 4" TAPPING SLEEVE, 4" TAPPING VALVE WITH BOX	2	EACH
SP	6" X 6" TAPPING SLEEVE, 6" TAPPING VALVE WITH BOX	6	EACH
SP	8" X 2" TAPPING SLEEVE, 2" TAPPING VALVE WITH BOX	1	EACH
SP	8" X 6" TAPPING SLEEVE, 6" TAPPING VALVE WITH BOX	1	EACH
SP	DUCTILE IRON PIPE WATER MAIN FITTINGS	22711	POUND
SP	8" X 8" TAPPING SLEEVE, 8" TAPPING VALVE WITH BOX	22	EACH
SP	10" POLYETHYLENE ENCASEMENT PIPE	90	LIN. FT.
SP	1" POLYETHYLENE SERVICE TUBING	2700	LIN. FT.
SP	2" POLYETHYLENE SERVICE TUBING	160	LIN. FT.
SP	2" GATE VALVE WITH BOX	6	EACH
SP	3" GATE VALVE WITH BOX	7	EACH
SP	4" GATE VALVE WITH BOX	4	EACH
SP	6" GATE VALVE WITH BOX	6	EACH
SP	8" GATE VALVE WITH BOX	17	EACH
SP	2" GATE VALVE, THD X THD WITH BOX	9	EACH
SP	2" FLUSHING HYDRANT (1 WAY)	8	EACH
SP	3" FLUSHING HYDRANT (1 WAY)	2	EACH
SP	4" FLUSHING HYDRANT (2 WAY)	4	EACH
SP	6" FLUSHING HYDRANT (3 WAY)	28	EACH
SP	LINE STOP ON EXISTING 3" WATER MAIN	1	EACH
SP	LINE STOP ON EXISTING 4" WATER MAIN	2	EACH
SP	LINE STOP ON EXISTING 6" WATER MAIN	4	EACH
SP	LINE STOP ON EXISTING 8" WATER MAIN	20	EACH
SP	CUT AND CAP EXISTING WATER MAIN (2")	11	EACH
SP	CUT AND CAP EXISTING WATER MAIN (3")	4	EACH
SP	CUT AND CAP EXISTING WATER MAIN (4")	2	EACH
SP	CUT AND CAP EXISTING WATER MAIN (6")	5	EACH
SP	CUT AND CAP EXISTING WATER MAIN (8")	22	EACH
SP	4" PVC SCH 40 SEWER SERVICE	20	LIN. FT.
SP	8" PVC SDR-26 SEWER MAIN	2200	LIN. FT.
SP	4" MANHOLE RISER	1	EACH
SP	MANHOLE, 0' TO 6' DEPTH (4' DIAMETER)	4	EACH
SP	MANHOLE, EXTRA DEPTH (4' DIAMETER)	43	LIN. FT.
SP	DROP MANHOLE, 0' TO 6' DEPTH (4' DIAMETER)	2	EACH
SP	DROP MANHOLE, EXTRA DEPTH (4' DIAMETER)	22	LIN. FT.
SP	DOUBLE DROP MANHOLE, 0' TO 6' DEPTH (4' DIAMETER)	1	EACH
SP	DOUBLE DROP MANHOLE, EXTRA DEPTH (4' DIAMETER)	22	LIN. FT.
SP	MANHOLE OVER EXISTING SEWER LINE, 0' TO 6' DEPTH (4' DIAMETER)	6	EACH
SP	MANHOLE OVER EXISTING SEWER LINE, EXTRA DEPTH (4' DIAMETER)	9	LIN. FT.
SP	PLUG EXISTING SANITARY SEWER (8")	6	EACH
SP	CUT IN FITTING ON EXISTING 2" WATER MAIN	6	EACH
SP	CUT IN FITTING ON EXISTING 3" WATER MAIN	4	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER SERVICE 2" WATER MAIN	26	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER SERVICE 3" WATER MAIN	1	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER SERVICE 4" WATER MAIN	11	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER SERVICE 6" WATER MAIN	6	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER SERVICE 8" WATER MAIN	41	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER METER ON HIGH PRESSURE 4" MAIN	1	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER METER ON HIGH PRESSURE 6" MAIN	4	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER METER ON HIGH PRESSURE 8" MAIN	8	EACH
SP	RELOCATE EXISTING 1" WATER SERVICE 8" WATER MAIN	5	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER METER AND BACKFLOW PREVENTER ON 6" MAIN	1	EACH
SP	RELOCATE EXISTING 5/8" X 3/4" WATER METER AND PRESSURE REGULATING VALVE ON HIGH PRESSURE 6" MAIN	1	EACH
SP	RECONNECT EXISTING 5/8" X 3/4" WATER SERVICE 2" WATER MAIN	3	EACH
SP	RECONNECT EXISTING 5/8" X 3/4" WATER SERVICE 8" WATER MAIN	5	EACH
SP	2" STATE HIGHWAY CROSSING (HDPE)	810	LIN. FT.
SP	6" STATE HIGHWAY CROSSING (HDPE)	650	LIN. FT.
SP	8" STATE HIGHWAY CROSSING (HDPE)	320	LIN. FT.
SP	10" STATE HIGHWAY CROSSING (HDPE)	380	LIN. FT.
SP	14" STATE HIGHWAY CROSSING (HDPE)	605	LIN. FT.
SP	HIGHWAY CROSSING MARKER	20	EACH
SP	2" COUNTY ROAD BORE (HDPE)	990	LIN. FT.
SP	6" COUNTY ROAD BORE (HDPE)	80	LIN. FT.
SP	10" COUNTY ROAD BORE (HDPE)	80	LIN. FT.
SP	14" COUNTY ROAD BORE (HDPE)	140	LIN. FT.
SP	14" SWAMP BORE (HDPE)	120	LIN. FT.
SP	2" MASTER METER	1	EACH
SP	8" AIR RELEASE VALVE ASSEMBLY	2	EACH
SP	4" X 45 DEGREE BEND	2	EACH
SP	8" X 4" WYE	1	EACH
SP	TRACER WIRE TEST STATION	86	EACH
SP	VALVE MARKER	42	EACH
SP	TIE EXISTING SERVICE LINE TO NEW SANITARY SEWER LINE	1	EACH

REVISIONS

DATE	REVISION	SHEET NUMBER
11-27-18	REPLACED "PERCENT WITHIN LIMITS/PAVEMENT SMOOTHNESS" SPECIAL PROVISION WITH "PERCENT WITHIN LIMITS/PAVEMENT SMOOTHNESS (IRI)" SPECIAL PROVISION.	3 & 112
12-12-18	REVISED "CONCRETE DITCH PAVING (TYPE B)", "WATER", "SOLID SODDING", "FILTER BLANKET", AND "DUMPED RIPRAP" QUANTITIES. REVISED ITEM NUMBER FOR "30" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)".	103-104, 111-112, 132-133, 137-138, 147-150, 154, 158 160, 172
01-08-19	REVISED "CONSTRUCTION SEQUENCE NOTE". REVISED SP "PERCENT WITHIN LIMITS/PAVEMENT SMOOTHNESS (IRI)". REMOVED "CONCRETE COMBINATION CURB AND GUTTER (TYPE B-1) (1' 6")" QUANTITY. ADDED "CONCRETE COMBINATION CURB AND GUTTER (TYPE B-1) (1' 6")" AND "24" TEMPORARY CULVERT" QUANTITIES.	61, 102, 105, 111-112

SUMMARY OF QUANTITIES AND REVISIONS

STATE OF ARKANSAS
TIMOTHY R. KLIMB
PROFESSIONAL ENGINEER
No. 11425
1-10-19

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
11-27-18			
12-12-18			
01-09-19			

(2) SUMMARY OF QUANTITIES AND REVISIONS

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	CA0801	112	605

JOB NO.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	113	605

(2) SURVEY CONTROL DETAILS

SURVEY CONTROL COORDINATES
Project Name: CA 0801
Date: 5/2/2014
Coordinate System: Arkansas State Plane Coordinates
Based on AHTD GPS PTS : *710003-710003A, 710008-710008A, 710012-710012A, 710013-710013A, 710014-710014A, 710015-710015A, 710016-710016A*
Projected to Ground Coordinates
Units: U.S. Survey Foot

COORDINATES LISTED BELOW ARE GROUND (Localized) COORDINATES !!!!

Point No.	Northing	SY	Easting	SX	Elevation	SZ	Feature Code	Point Description
1	461985.4638	0.0234	1175016.0157	0.0233	523.91	0.007	CTL	PD:AHTD STD. MON STAMPED T-1
2	462813.4654	0.0184	1175465.8126	0.0182	525.37	0.007	CTL	PD:AHTD STD. MON STAMPED T-2
3	463160.5860	0.0236	1176205.7454	0.0229	527.26	0.009	CTL	PD:AHTD STD. MON STAMPED T-3
4	463844.7274	0.0237	1176612.7038	0.0222	569.62	0.009	CTL	PD:AHTD STD. MON STAMPED T-4
5	464507.4459	0.0204	1176753.2228	0.0190	612.99	0.010	CTL	PD:AHTD STD. MON STAMPED T-5
6	465119.2225	0.0213	1176753.9856	0.0196	658.55	0.011	CTL	PD:AHTD STD. MON STAMPED T-6
7	465731.5244	0.0264	1176409.4709	0.0240	696.33	0.012	CTL	PD:AHTD STD. MON STAMPED T-7
8	466449.5014	0.0224	1175925.3606	0.0224	742.69	0.012	CTL	PD:AHTD STD. MON STAMPED T-8
9	467137.5953	0.0247	1175820.5474	0.0244	779.03	0.012	CTL	PD:AHTD STD. MON STAMPED T-9
10	468002.5268	0.0215	1176034.3064	0.0218	823.05	0.014	CTL	PD:AHTD STD. MON STAMPED T-10
11	468607.0218	0.0247	1176206.7373	0.0246	847.13	0.014	CTL	PD:AHTD STD. MON STAMPED T-11
12	469272.8414	0.0206	1176457.9713	0.0188	869.43	0.014	CTL	PD:AHTD STD. MON STAMPED T-12
13	470725.0230	0.0226	1176579.2908	0.0211	926.62	0.014	CTL	PD:AHTD STD. MON STAMPED T-13
14	471337.3166	0.0296	1176574.1007	0.0272	955.66	0.015	CTL	PD:AHTD STD. MON STAMPED T-14
15	472716.8155	0.0274	1176131.5993	0.0247	1026.10	0.015	CTL	PD:AHTD STD. MON STAMPED T-15
16	473260.3732	0.0226	1175759.5645	0.0199	1049.92	0.015	CTL	PD:AHTD STD. MON STAMPED T-16
17	474010.7759	0.0182	1175716.0016	0.0163	1065.19	0.015	CTL	PD:AHTD STD. MON STAMPED T-17
18	474781.6296	0.0281	1175491.2504	0.0245	1079.19	0.015	CTL	PD:AHTD STD. MON STAMPED T-18
19	475445.3718	0.0257	1175197.2829	0.0225	1113.40	0.016	CTL	PD:AHTD STD. MON STAMPED T-19
20	476038.6593	0.0227	1175229.0986	0.0205	1149.59	0.016	CTL	PD:AHTD STD. MON STAMPED T-20
21	476671.2975	0.0297	1175482.8154	0.0251	1191.08	0.016	CTL	PD:AHTD STD. MON STAMPED T-21
22	477408.0772	0.0241	1175625.5590	0.0212	1237.37	0.016	CTL	PD:AHTD STD. MON STAMPED T-22
23	477998.0557	0.0249	1175765.0438	0.0220	1268.54	0.016	CTL	PD:AHTD STD. MON STAMPED T-23
24	478659.3045	0.0248	1175856.5290	0.0219	1278.51	0.017	CTL	PD:AHTD STD. MON STAMPED T-24
25	479390.1417	0.0246	1175881.8910	0.0221	1288.96	0.017	CTL	PD:AHTD STD. MON STAMPED T-25
26	480097.6293	0.0247	1176029.7918	0.0218	1295.75	0.016	CTL	PD:AHTD STD. MON STAMPED T-26
27	480935.8013	0.0239	1175624.0790	0.0219	1286.84	0.017	CTL	PD:AHTD STD. MON STAMPED T-27
28	481500.5166	0.0237	1175148.7641	0.0212	1302.03	0.017	CTL	PD:AHTD STD. MON STAMPED T-28
29	482121.2655	0.0228	1174376.8423	0.0210	1307.44	0.017	CTL	PD:AHTD STD. MON STAMPED T-29
30	482373.8726	0.0245	1173809.7288	0.0227	1308.96	0.017	CTL	PD:AHTD STD. MON STAMPED T-30
31	482498.1059	0.0271	1173167.8837	0.0232	1314.55	0.017	CTL	PD:AHTD STD. MON STAMPED T-31
32	482590.6102	0.0245	1172548.1683	0.0227	1331.95	0.017	CTL	PD:AHTD STD. MON STAMPED T-32
33	483041.5565	0.0261	1172074.1522	0.0238	1342.97	0.017	CTL	PD:AHTD STD. MON STAMPED T-33
34	483562.4059	0.0232	1171652.8795	0.0208	1350.88	0.017	CTL	PD:AHTD STD. MON STAMPED T-34
35	484065.2928	0.0225	1171254.3866	0.0206	1358.27	0.017	CTL	PD:AHTD STD. MON STAMPED T-35
36	484590.2798	0.0237	1170901.7097	0.0217	1362.70	0.017	CTL	PD:AHTD STD. MON STAMPED T-36
37	485196.7642	0.0219	1170551.0806	0.0205	1366.17	0.017	CTL	PD:AHTD STD. MON STAMPED T-37
38	485783.5188	0.0248	1170208.2752	0.0222	1382.67	0.017	CTL	PD:AHTD STD. MON STAMPED T-38
39	486352.6823	0.0256	1169854.7157	0.0235	1403.52	0.017	CTL	PD:AHTD STD. MON STAMPED T-39
40	486886.2923	0.0265	1169430.5429	0.0225	1416.17	0.017	CTL	PD:AHTD STD. MON STAMPED T-40
41	487389.1199	0.0254	1168753.7902	0.0233	1402.26	0.017	CTL	PD:AHTD STD. MON STAMPED T-41
42	487786.0536	0.0250	1168344.2734	0.0226	1406.97	0.017	CTL	PD:AHTD STD. MON STAMPED T-42
43	488590.7755	0.0240	1167734.8868	0.0226	1403.93	0.017	CTL	PD:AHTD STD. MON STAMPED T-43
44	489125.1220	0.0236	1167422.6700	0.0198	1396.07	0.017	CTL	PD:AHTD STD. MON STAMPED T-44
45	489863.7343	0.0232	1166648.4287	0.0213	1390.95	0.017	CTL	PD:AHTD STD. MON STAMPED T-45
46	490145.0439	0.0217	1166213.2825	0.0216	1395.39	0.017	CTL	PD:AHTD STD. MON STAMPED T-46
47	490309.5683	0.0249	1165570.6387	0.0222	1399.30	0.017	CTL	PD:AHTD STD. MON STAMPED T-47
48	490609.1961	0.0269	1165021.9984	0.0234	1410.12	0.017	CTL	PD:AHTD STD. MON STAMPED T-48
49	490959.6239	0.0253	1164488.0703	0.0256	1426.21	0.017	CTL	PD:AHTD STD. MON STAMPED T-49
50	490974.6742	0.0256	1163925.2364	0.0258	1419.40	0.017	CTL	PD:AHTD STD. MON STAMPED T-50
51	490875.8879	0.0230	1163255.8900	0.0200	1406.72	0.017	CTL	PD:AHTD STD. MON STAMPED T-51
52	491088.8083	0.0246	1162753.9491	0.0251	1401.66	0.017	CTL	PD:AHTD STD. MON STAMPED T-52
53	491317.9061	0.0269	1162469.8037	0.0285	1400.60	0.017	CTL	PD:AHTD STD. MON STAMPED T-53
54	491884.6921	0.0239	1162112.5496	0.0243	1398.95	0.017	CTL	PD:AHTD STD. MON STAMPED T-54
55	492453.7049	0.0258	1161843.8464	0.0271	1397.09	0.017	CTL	PD:AHTD STD. MON STAMPED T-55
56	492994.1040	0.0262	1161670.0822	0.0226	1402.74	0.017	CTL	PD:AHTD STD. MON STAMPED T-56
57	493631.8020	0.0215	1161508.0165	0.0206	1393.50	0.017	CTL	PD:AHTD STD. MON STAMPED T-57
58	494241.9512	0.0244	1161129.3543	0.0245	1357.17	0.016	CTL	PD:AHTD STD. MON STAMPED T-58
59	494778.3695	0.0266	1160802.5318	0.0272	1325.20	0.016	CTL	PD:AHTD STD. MON STAMPED T-59
60	495489.0483	0.0274	1160280.0436	0.0276	1282.00	0.016	CTL	PD:AHTD STD. MON STAMPED T-60
61	496015.5446	0.0253	1159794.6309	0.0220	1272.06	0.016	CTL	PD:AHTD STD. MON STAMPED T-61
62	497030.4874	0.0206	1158982.0740	0.0194	1286.03	0.016	CTL	PD:AHTD STD. MON STAMPED T-62
63	497622.5637	0.0246	1158636.2757	0.0236	1316.28	0.016	CTL	PD:AHTD STD. MON STAMPED T-63
64	498349.8506	0.0249	1158579.2832	0.0238	1327.60	0.015	CTL	PD:AHTD STD. MON STAMPED T-64
65	499032.9877	0.0247	1158786.6353	0.0233	1355.70	0.015	CTL	PD:AHTD STD. MON STAMPED T-65
66	499536.7222	0.0238	1158905.3997	0.0225	1374.88	0.015	CTL	PD:AHTD STD. MON STAMPED T-66
67	500068.4736	0.0242	1158748.3656	0.0227	1397.01	0.015	CTL	PD:AHTD STD. MON STAMPED T-67
68	500691.7949	0.0237	1158455.8410	0.0220	1434.02	0.015	CTL	PD:AHTD STD. MON STAMPED T-68
69	501315.1223	0.0213	1158350.4465	0.0194	1446.03	0.014	CTL	PD:AHTD STD. MON STAMPED T-69
70	501949.2202	0.0237	1158368.2829	0.0218	1425.97	0.014	CTL	PD:AHTD STD. MON STAMPED T-70
71	502595.3498	0.0245	1158538.3633	0.0224	1394.86	0.014	CTL	PD:AHTD STD. MON STAMPED T-71
72	503033.8323	0.0213	1158578.0928	0.0194	1398.08	0.014	CTL	PD:AHTD STD. MON STAMPED T-72
73	503625.6128	0.0217	1158303.9402	0.0195	1397.18	0.013	CTL	PD:AHTD STD. MON STAMPED T-73
74	504974.3070	0.0236	1157756.0494	0.0214	1381.61	0.012	CTL	PD:AHTD STD. MON STAMPED T-74
75	506329.8199	0.0257	1157144.7213	0.0218	1443.96	0.012	CTL	PD:AHTD STD. MON STAMPED T-75
76	507048.1716	0.0226	1157056.0565	0.0192	1467.32	0.011	CTL	PD:AHTD STD. MON STAMPED T-76
77	507769.6841	0.0254	1157059.9860	0.0215	1471.14	0.011	CTL	PD:AHTD STD. MON STAMPED T-77
78	508372.8387	0.0266	1157065.4806	0.0223	1493.53	0.011	CTL	PD:AHTD STD. MON STAMPED T-78
79	509065.6974	0.0272	1157255.3656	0.0226	1502.15	0.010	CTL	PD:AHTD STD. MON STAMPED T-79
80	509620.3904	0.0253	1157756.5480	0.0229	1495.27	0.010	CTL	PD:AHTD STD. MON STAMPED T-80
81	510261.4191	0.0245	1157991.1988	0.0212	1511.59	0.009	CTL	PD:AHTD STD. MON STAMPED T-81
82	510997.2513	0.0246	1157873.5041	0.0225	1532.75	0.009	CTL	PD:AHTD STD. MON STAMPED T-82
83	511590.2324	0.0265	1157386.3814	0.0224	1548.93	0.008	CTL	PD:AHTD STD. MON STAMPED T-83
84	512004.6565	0.0259	1157042.6497	0.0218	1550.03	0.008	CTL	PD:AHTD STD. MON STAMPED T-84
85	512585.7978	0.0240	1156730.8575	0.0201	1534.27	0.009	CTL	PD:AHTD STD. MON STAMPED T-85
86	513212.3265	0.0234	1156813.6823	0.0201	1512.61	0.009	CTL	PD:AHTD STD. MON STAMPED T-86
87	513899.8815	0.0260	1157144.8218	0.0222	1468.30	0.010	CTL	PD:AHTD STD. MON STAMPED T-87
88	514478.9678	0.0234	1157438.3327	0.0218	1427.10	0.010	CTL	PD:AHTD STD. MON STAMPED T-88
89	515186.0454	0.0222	1157554.8514	0.0206	1420.34	0.009	CTL	PD:AHTD STD. MON STAMPED T-89
90	515790.2059	0.0247	1157555.9715	0.0228	1429.76	0.009	CTL	PD:AHTD STD. MON STAMPED T-90
91	517167.4282	0.0235	1157335.5863	0.0213	1461.98	0.009	CTL	PD:AHTD STD. MON STAMPED T-91
92	518318.3590	0.0218	1156942.9178	0.0193	1514.31	0.008	CTL	PD:AHTD STD. MON STAMPED T-92
93	518899.4005	0.0195	1156771.9081	0.0172	1505.53	0.008	CTL	PD:AHTD STD. MON STAMPED T-93
94	519489.4741	0.0267	1156543.8553	0.0233	1497.83	0.009	CTL	PD:AHTD STD. MON STAMPED T-94
100	459303.1051	0.0001	1177041.6496	0.0001	509.01	0.004	GPS	PD:AHTD GPS #710008
101	460408.6841	0.0001	1176005.1243	0.0001	510.72	0.005	GPS	PD:AHTD GPS #710008A
102	470058.8238	0.0001	1176571.9769	0.0001	901.89	0.014	GPS	PD:AHTD GPS #710012
103	471980.3637	0.0001	1176579.2858	0.0001	1000.22	0.015	GPS	PD:AHTD GPS #710012A
104	480453.5238	0.0001	1175991.3201	0.0001	1292.10	0.016	GPS	PD:AHTD GPS #710013
105	481761.4769	0.0001	1174886.6513	0.0001	1305.19	0.017	GPS	PD:AHTD GPS #710013A
106	488114.9762	0.0001	1168176.6048	0.0001	1409.24	0.017	GPS	PD:AHTD GPS #710014
107	489506.1903	0.0001	1167143.5316	0.0001	1390.44	0.017	GPS	PD:AHTD GPS #710014A
108	494999.9150	0.0001	1160649.9674	0.0001	1312.17	0.016	GPS	PD:AHTD GPS #710015
109	496483.4597	0.0001	1159395.4691	0.0001	1275.20	0.015	GPS	PD:AHTD GPS #710015A
110	504270.6442	0.0001	1158046.6432	0.0001	1373.33	0.013	GPS	PD:AHTD GPS #710016
111	505572.8899	0.0001	1157356.3275	0.0001	1423.41	0.012	GPS	PD:AHTD GPS #710016A
112	516333.5342	0.0001	1157504.1752	0.0001	1437.55	0.009	GPS	PD:AHTD GPS #710003
113	517977.4796	0.0001	1157122.6730	0.0001	1507.46	0.008	GPS	PD:AHTD GPS #710003A
900	462262.5370	0.3000	1175175.0701	0.3000	517.81	0.007	TBM	PD:CUT SQ CNT E HEADWALL
901	463143.1391	0.3000	1176031.7918	0.3000	526.44	0.008	TBM	PD:CUT SQ NE COR BRIDGE OVER
902	465239.5638	0.3000	1176635.6939	0.3000	665.39	0.011	TBM	PD:CUT SQ S COR OF W HEADWALL
903	467049.0134	0.3000	1175815.4701	0.3000	774.04	0.012	TBM	PD:CUT SQ S END W HEADWALL
904	469428.0475	0.3000	1176507.0236	0.3000	877.68	0.014	TBM	PD:CUT SQ CNT E HEADWALL
905	471242.9944	0.3000	1176579.8691	0.3000	946.27	0.015	TBM	PD:CUT SQ CNT E HEADWALL
906	473502.1394	0.3000	1175696.7400	0.3000	1054.79	0.015	TBM	PD:CUT SQ CNT W HEADWALL
907	475955.5805	0.3000	1175278.3915	0.3000	1141.53	0.016	TBM	PD:CUT SQ CNT E HEADWALL
908	478929.1533	0.3000	1175894.8084	0.3000	1281.60	0.017	TBM	PD:CUT SQ CNT E HEADWALL
909	480722.7767	0.3000	1175750.2666	0.3000	1279.95	0.017	TBM	PD:CUT SQ CNT W HEADWALL
910	482269.1429	0.3000	1174039.0488	0.3000	1310.66	0.017	TBM	PD:X FH BOLT
911	482923.9366	0.3000	1172137.8228	0.3000	1342.14	0.017	TBM	PD:X ON TOP OF BOLT ON FIRE HYDRANT
912	484320.3987	0.3000	1171056.9608	0.3000	1355.63	0.017	TBM	PD:CUT SQ CNT SW HEADWALL
913	485386.9586	0.3000	1170433.9493	0.3000	1368.84	0.017	TBM	PD:CUT SQ CNT W HEADWALL
914	486537.3824	0.3000	1169698.0957	0.3000	1410.51	0.017	TBM	PD:CUT SQ SE END W HEADWALL
915	487498.8061	0.3000	1168616.0402	0.3000	1401.26	0.017	TBM	PD:CUT SQ CNT W HEADWALL
916	489258.1247	0.3000	1167340.3036	0.3000	1388.86	0.017	TBM	PD:CUT SQ CNT E HEADWALL
917	490189.7310	0.3000	1166104.6552	0.3000	1394.31	0.017	TBM	PD:CUT SQ CNT N HEADWALL
918	490968.3275	0.3000	1163800.1811	0.3000	1414.18	0.017	TBM	PD:CUT SQ CNT N HEADWALL
919	491758.4752	0.3000	1162190.0117	0.3000	1398.63	0.017	TBM	PD:CUT SQ CNT NE HEADWALL
920	495433.0122	0.3000	1160345.1311	0.3000	1281.15	0.016	TBM	PD:CUT SQ CNT NE HEADWALL
921	497882.7379	0.3000	1158657.1966	0.3000	1315.31	0.016	TBM	PD:CUT SQ E END CU FLARE END
922	498916.1177	0.3000	1158828.3620	0.3000	1348.55	0.015	TBM	PD:CUT SQ FLARED END CU
923	500367.5245	0.3000	1158652.4386	0.3000	1410.00	0.015	TBM	PD:CUT SQ NE END FLARED CU
924	502090.6205	0.3000	1158480.4819	0.3000	1415.26	0.014	TBM	PD:AHTD BRASS CAP E HEADWALL
925	503792.9208	0.3000	1158234.3483	0.3000	1392.29	0.013	TBM	PD:CUT SQ CNT SW HEADWALL
926	505947.8688	0.3000	1157280.9284	0.3000	1430.84	0.012	TBM	PD:CUT SQ CNT NE HEADWALL
927	508045.5567	0.3000	1157122.7577	0.3000	1474.76	0.011	TBM	PD:CUT SQ CNT E HEADWALL
928	509865.8817	0.3000	1157903.0316	0.3000	1498.16	0.010	TBM	PD:CUT SQ CNT E HEADWALL
929	511806.7436	0.3000	1157271.1083	0.3000	1551.39	0.008	TBM	PD:CUT SQ E END HEADWALL
930	513531.5740	0.3000	1157032.2659	0.3000	1491.28	0.009	TBM	PD:CUT SQ CNT E HEADWALL
931	514850.7615	0.3000	1157531.4979	0.3000	1415.63	0.010	TBM	PD:CUT SQ CNT E HEADWALL
932	516699.4183	0.3000	1157427.4977	0.3000	1443.55	0.009	TBM	PD:CUT SQ CNT HEADWALL
996	511803.4400	0.3000	1157316.2649	0.3000	1556.76	0.035	BM	PD:NGS 3RD ORDER BM D 28 RESET
997	518544.5354	30.0000	1156786.2506	30.0000	1513.12	0.035	BM	PD:NGS 3RD ORDER BM U 146 RESET
998	458704.9101	30.0000	1176454.8313	30.0000	507.98	0.000	BM	PD:NGS 2ND ORDER BM N 48
999	492689.3654	0.3000	1161811.6238	0.3000	1399.26	0.017	BM	PD:NGS 2ND ORDER BM D 26

*Standard Primary Control Monument - Rebar and Cap - Standard - 5/8"x 24" Rebar with 2"Aluminum Cap stamped: "(include all common information here)" plus other markings indicated in the point description of the individual point. AHTD monuments will be stamped "Arkansas Hwy & Trans Dept" with "PN: ###" & "Job ######". Monuments that are set by Consultants will be stamped "Arkansas Hwy & Trans Dept" with "PN:###", "Job######", & "PS####". The consultant Professional Surveyor in charge will stamp his/her PS license number on the cap.

**Standard GPS Control Point Monument - 5/8" x 48" Rebar with 2.5"Aluminum Cap stamped: "(include all common information here)" plus other markings indicated in the point description of the individual point. These monuments will be stamped "Ark. State Hwy Trans. Dept.", "GPS Survey", & "Point No. ######".

SX, SY, SZ – Represents the standard error estimate of the coordinate values of each point at the 67% confidence level (one sigma) based on the least squares analysis of the control network. See the AASHTO SDMS Technical Data Guide data tag definition for SX:, SY:, and SZ: for additional information. These values shall be used when control points are added and the entire network is reprocessed using least square analysis. A value of 0.001 is defined as fixed (no adjustment) in the least square analysis process. A value of 30 is defined as location by handheld GPS device or scaled from USGS Quadmap.

Reference Control points (1500 series) shall be used to re-establish horizontal datum if the primary control has been destroyed. These reference control points shall not be used for vertical control unless the elevation has been established from the project datum with 3-wire level techiniques.

All additional project control shall be occupied, measured, and adjusted with direct survey ties to at least two of the control points listed in the table above. New survey control shall not be independent of the survey control listed above. This includes horizontal coordinates and elevations.

Positional Accuracy:
- Horizontal - GPS (1.0 cm± 1PPM) — *PN: 100-113*
- Horizontal - Primary (2.0cm± 20PPM): — *PN:1-94*
- Horizontal - Secondary (3 cm ± 50PPM): — *PN:N/A*
- Vertical - NGS 1st Order (±4mm x Vdist in km) — *PN:N/A*
- Vertical - NGS 2nd Order (±6mm x Vdist in km) — *PN:998,999*
- Vertical - NGS 3rd Order (±8mm x Vdist in km) — *PN:996,997*

Horizontal Datum: NAD 1983 (1997) State Plane Zone: 0301 - North Zone
The adjustment year is based on metadata in the SDMS Control file
A project CAF of: 0.999881144 has been used to compute the above coordinates.
The project CAF shall have a minimum precision of 9 digits right of the decimal.
This CAF is intended for use within the project limits only.
Grid Distance = Ground Distance X CAF
If Coordinates are listed as Ground:
To compute Grid Coordinates, multiply the Ground Coordinates by CAF about the origin of X=0 & Y=0
If Coordinates are listed as Grid:
To compute Ground Coordinates, divide the Grid Coordinates by CAF about the origin of X=0 & Y=0

Vertical Datum: NAVD 1988 based NGS BM:
A project Elevation Factor of: 0.9999397364 has been computed and incorporated in the above CAF.
This is based on the average elevation of the project: 1259.95 Feet
3-Wire Leveling techniques have been used to establish elevations on
Points: 1-94, 100-113 From NGS BM: N 48,D 28 RESET, U 146 RESET, D26

Basis of Bearing: Grid Bearings based on AHTD GPS points: 710003-710003A, 710008-710008A, 710012-710012A, 710013-710013A, 710014-710014A, 710015-710015A, 710016-710016A
Convergence Angle is: 00 17 16.19 LEFT at PN: 47
LT: 35-40-45.24 N LG: 092-29-40.71 W
Grid Azimuth = Astronomical Azimuth - Convergence Angle

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

11/9/2018

RCA0801.DGN

SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	114	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11435
TRINITY D. SMITH
11-15-18

HWY. 65

POINT NO.	TYPE	STATION	NORTHING	EASTING
8000	POB	445+00.38	460107.7004	1176372.0968
8001	PC	459+05.40	461084.5529	1175362.2216
8003	PT	477+19.55	462681.9239	1175450.9930
8004	PC	486+63.47	463258.9763	1176197.9877
8006	PT	493+92.53	463862.9568	1176579.2898
8007	PC	500+77.59	464532.5101	1176724.2446
8009	PT	509+21.19	465342.9414	1176582.3822
8010	PC	518+57.68	466136.4903	1176085.1054
8012	PT	532+48.77	467473.8363	1175903.5932
8013	PC	552+80.58	469420.8187	1176484.5588
8015	PT	559+47.29	470079.7383	1176560.9617
8016	PC	564+70.80	470602.3329	1176530.0355
8018	PT	570+28.42	471159.6879	1176517.4299
8019	PC	576+06.39	471737.5959	1176525.4537
8021	PT	583+03.37	472391.0831	1176319.4042
8022	PC	588+71.79	472852.1275	1175986.9331
8024	PT	595+85.58	473509.3005	1175727.7915
8025	PC	601+40.10	474059.3998	1175657.8586
8027	PT	608+57.70	474752.5737	1175479.6106
8028	PC	612+55.61	475122.5481	1175333.1497
8030	PT	623+75.81	476220.3519	1175294.9368
8031	PC	632+98.08	477099.4052	1175573.9556
8033	PT	637+54.06	477544.0119	1175672.3608
8034	PC	660+81.04	479851.8759	1175970.0695
8036	PT	674+03.37	481057.5349	1175552.6648
8037	PC	685+77.53	481868.4420	1174726.2516
8039	PT	701+36.96	482464.0093	1173324.2159
8040	PC	703+96.23	482471.1262	1173065.0444
8042	PT	714+00.42	482907.6904	1172196.1911
8043	PC	727+47.32	483965.9036	1171362.9346
8045	PT	735+41.57	484621.9251	1170916.3275
8046	PC	751+27.41	485991.4844	1170116.8215
8048	PT	765+64.85	487069.0247	1169178.2863
8049	PC	770+57.68	487373.5506	1168790.7947
8051	PT	778+70.26	487958.9485	1168231.1669
8052	PC	796+15.20	489378.0280	1167215.7714
8054	PT	807+90.93	490070.9120	1166288.8714
8055	PC	814+27.28	490279.5894	1165687.7137
8057	PT	818+81.44	490473.9223	1165278.2265
8058	PC	825+41.99	490820.3636	1164715.8112
8060	PT	833+07.20	490982.9549	1163982.5482
8061	PC	838+59.27	490919.2338	1163434.1696
8063	PT	852+05.34	491496.2710	1162302.8282
8064	PC	859+05.26	492106.5050	1161960.0365
8066	PT	864+03.44	492569.3313	1161780.2464
8067	PC	870+50.63	493199.5926	1161633.1874
8069	PT	876+84.70	493782.0953	1161390.1796
8070	PC	889+04.95	494815.1696	1160740.7286
8072	PT	895+55.01	495344.7215	1160364.3102
8073	POE	913+81.33	496770.9066	1159223.5010

SKYHILL DRIVE

POINT NO.	TYPE	STATION	NORTHING	EASTING
8074	POB	100+00.00	468163.2118	1175815.0053
8075	PC	100+14.62	468163.0333	1175829.6226
8077	PT	101+73.77	468139.1545	1175986.4574
8078	POE	102+84.60	468107.4635	1176092.6630

ISOM LANE

POINT NO.	TYPE	STATION	NORTHING	EASTING
8225	POB	200+00.00	472146.1717	1176087.4579
8226	PC	200+47.38	472146.0607	1176134.8358
8228	PT	202+24.48	472185.9890	1176305.7580
8229	POE	203+42.54	472238.5404	1176411.4749

HENDERSON ROAD

POINT NO.	TYPE	STATION	NORTHING	EASTING
8176	POB	300+00.00	478775.2632	1175831.1892
8177	PC	302+18.05	478747.3661	1176047.4504
8179	PT	303+38.91	478736.9762	1176167.8197
8180	POE	304+67.90	478731.3130	1176296.6860

NATURAL BRIDGE ROAD

POINT NO.	TYPE	STATION	NORTHING	EASTING
8181	POB	400+00.00	480255.8043	1175964.7404
8182	PC	401+54.26	480279.5687	1176117.1554
8184	PT	402+76.08	480285.4469	1176238.6112
8185	POE	405+54.44	480269.3240	1176516.4965

GLENN ROAD

POINT NO.	TYPE	STATION	NORTHING	EASTING
8166	POB	500+00.00	482903.6446	1171807.4668
8167	PC	501+25.65	482896.3507	1171932.9016
8169	PT	502+82.42	482942.3270	1172079.2113
8170	POE	503+52.90	482985.9290	1172134.5846

DEAD END ROAD

POINT NO.	TYPE	STATION	NORTHING	EASTING
8084	POB	600+00.00	490989.5071	1164064.4665
8085	PC	600+72.68	491062.1179	1164061.2733
8087	PT	601+49.98	491124.7790	1164022.0496
8088	PC	602+61.76	491177.9889	1163923.7543
8090	PT	603+90.38	491288.7563	1163899.3171
8091	PC	604+42.24	491330.3402	1163930.3012
8093	PT	605+28.86	491391.4186	1163991.2972
8094	POE	605+76.02	491419.6479	1164029.0774

HWY. 110

POINT NO.	TYPE	STATION	NORTHING	EASTING
8079	POB	700+00.00	496559.0286	1159392.9828
8080	PC	701+73.45	496667.3710	1159528.4273
8082	PT	705+19.46	496956.6636	1159705.3439
8083	POE	705+22.42	496959.5603	1159705.9360

DRIVEWAY 568+50

POINT NO.	TYPE	STATION	NORTHING	EASTING
8095	POB	999+99.57	470845.2391	1176315.8302
8096	PC	1000+09.72	470844.4339	1176325.9424
8098	PT	1000+79.69	470881.8662	1176378.3463
8099	PC	1001+42.76	470942.9707	1176394.0023
8101	PT	1002+08.29	470980.5585	1176441.9641
8102	POE	1002+83.37	470981.2696	1176517.0364

DRIVEWAY 623+00

POINT NO.	TYPE	STATION	NORTHING	EASTING
8103	POB	1200+00.00	476321.0117	1175178.1080
8104	PC	1201+09.49	476211.5204	1175178.1080
8106	PT	1201+74.98	476163.2143	1175215.2036
8107	POE	1202+35.51	476147.5921	1175273.6834

DRIVEWAY 628+00

POINT NO.	TYPE	STATION	NORTHING	EASTING
8108	POB	1300+00.00	476624.6665	1175423.2696
8109	PC	1300+47.21	476610.3842	1175468.2662
8111	PT	1301+07.77	476565.3358	1175503.0714
8112	POE	1302+32.29	476440.9893	1175509.5675

DRIVEWAY 631+35

POINT NO.	TYPE	STATION	NORTHING	EASTING
8113	POB	1350+00.00	477180.7860	1175424.5237
8114	PC	1350+21.62	477173.7863	1175444.9748
8116	PT	1350+70.06	477135.6808	1175468.2832
8117	PC	1352+08.33	476998.8246	1175448.5644
8119	PT	1352+57.56	476960.4733	1175472.6180
8120	POE	1353+12.12	476943.9679	1175524.6185

DRIVEWAY 759+00

POINT NO.	TYPE	STATION	NORTHING	EASTING
8121	POB	1400+00.00	486329.0816	1169626.6274
8129	PC	1401+96.68	486523.1882	1169594.9333
8131	PT	1402+46.78	486568.4822	1169610.9116
8132	POE	1403+16.34	486614.9090	1169662.7207

DRIVEWAY 768+00

POINT NO.	TYPE	STATION	NORTHING	EASTING
8133	POB	1450+00.00	487214.3314	1168993.3919
8134	PC	1450+54.19	487256.9423	1169026.8794
8136	PT	1451+70.52	487270.4715	1169131.0181
8137	POE	1452+15.75	487243.2362	1169167.1181

DRIVEWAY 799+57

POINT NO.	TYPE	STATION	NORTHING	EASTING
8138	POB	1475+00.00	489636.7689	1166993.1252
8139	PC	1475+54.56	489675.9112	1167031.1375
8141	PT	1476+36.78	489674.2897	1167104.3825
8142	POE	1476+92.67	489632.5139	1167141.5047

DRIVEWAY 848+50

POINT NO.	TYPE	STATION	NORTHING	EASTING
8143	POB	1500+00.00	491199.7021	1162320.4941
8144	PC	1501+38.36	491165.0438	1162454.4422
8146	PT	1501+65.24	491172.2260	1162479.0156
8147	POE	1502+27.97	491218.1770	1162521.7289

DRIVEWAY 852+00

POINT NO.	TYPE	STATION	NORTHING	EASTING
8148	POB	1600+00.00	491301.0741	1162205.0601
8149	PC	1601+24.58	491424.1066	1162224.6091
8151	PT	1601+69.41	491459.7389	1162249.2991
8152	POE	1602+33.99	491491.6266	1162305.4514

DRIVEWAY 854+56

POINT NO.	TYPE	STATION	NORTHING	EASTING
8153	POB	1650+00.00	491714.8164	1162180.0629
8154	PC	1650+72.34	491750.2455	1162243.1334
8156	PT	1651+32.43	491800.9593	1162268.1359
8157	POE	1652+40.48	491907.9030	1162252.7484

DRIVEWAY 876+75

POINT NO.	TYPE	STATION	NORTHING	EASTING
8158	POB	1700+00.00	493806.2889	1161138.7320
8159	PC	1700+24.44	493819.2973	1161159.4243
8161	PT	1700+92.82	493811.5737	1161222.1240
8162	PC	1701+78.46	493749.7633	1161281.3963
8164	PT	1702+46.58	493741.9053	1161343.8809
8165	POE	1703+07.15	493773.8778	1161395.3166

STAGE 1

POINT NO.	TYPE	STATION	NORTHING	EASTING
8186	POB	597+00.00	473625.0781	1175731.1871
8187	PC	599+37.50	473861.3582	1175707.1044
8189	PT	607+83.97	474678.6743	1175499.0098
8190	POE	608+02.31	474695.5859	1175491.9184
8199	POB	619+00.00	475752.5799	1175209.3108
8200	PC	619+24.96	475777.4966	1175210.8508
8202	PT	620+88.23	475937.9023	1175239.3288
8203	POE	623+98.51	476235.2523	1175327.9611

STAGE 2

POINT NO.	TYPE	STATION	NORTHING	EASTING
8220	POB	498+00.00	464261.2005	1176665.5075
8221	PC	499+03.37	464362.2311	1176687.3801
8223	PT	500+25.78	464483.0649	1176706.5239
8224	POE	501+98.91	464655.3109	1176723.9880
8214	POB	513+00.00	465653.5747	1176364.7117
8215	POE	515+00.01	465824.1106	1176260.2057
8204	POB	597+00.00	473620.6045	1175695.9975
8205	PC	603+03.31	474219.1015	1175619.9118
8207	PT	610+20.91	474912.2754	1175441.6639
8208	POE	611+00.75	474986.5116	1175412.2762
8209	POB	619+00.00	475752.0349	1175241.9490
8210	PC	621+08.45	475960.2510	1175251.7922
8212	PT	625+34.26	476378.2032	1175326.6792
8213	POE	626+98.39	476534.6468	1175376.3357
8216	POB	629+00.00	476725.2745	1175436.8425
8217	POE	632+30.05	477041.6255	1175530.9599
8218	POB	642+00.00	477989.2986	1175706.1066
8219	POE	645+30.05	478315.8191	1175754.2766
8191	POB	825+00.00	490783.4411	1164742.3854
8192	PC	825+92.44	490831.9238	1164663.6782
8194	PT	833+57.65	490994.5151	1163930.4152
8195	PC	838+66.59	490935.7723	1163424.8793
8197	PT	852+12.66	491512.8095	1162293.5379
8198	POE	853+88.35	491665.9881	1162207.4916

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	115	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11435
TRINITY D. SMITH
11-15-18

HWY. 65
PI = 490+43.64
Δ = 40°05'54"LT.
D = 5°30'00"
T = 380.17'
L = 729.06'
PC = 486+63.47
PT = 493+92.53

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63

STA. 498+00.00 HWY. 65
=STA. 498+00.00 STAGE 2
0.00' OFFSET

STA. 502+00.00 HWY. 65
=STA. 501+98.91 STAGE 2
19.50' OFFSET

C.L. STAGE 2

PC486+63.47
N 52°18'50" E
943.92'
8004
N 52°18'50" E
380.17'
SURVEY BASELINE N38°44'46"E
796.03'
490
PT493+92.53
495
C.L. HWY. 65
N 12°12'57" E
380.17'
8006
N 12°12'57" E
685.06'
POB498+00.00
8220
N 12°12'57" E
103.37'
PC499+03.37
8221
N 12°12'57" E
61.27'
500 500
PT500+25.78
N 5°47'22" E
61.27'
8223
PC500+77.59
N 5°47'22" E
173.13'
8007
POE501+98.91
8224
SURVEY BASELINE N11°58'17"E
677.45'
PI490+43.65
PNH4
PDoH/TD STD. MON STAMPED T-4
SURVEY BASELINE
PI499+64.64
PNH5
PDoH/TD STD. MON STAMPED T-5

STAGE 2
P.I. = 499+64.64
Δ = 6° 25' 35" LT.
D = 5° 15' 00"
T = 61.27'
L = 122.41'
P.C. = 499+03.37
P.T. = 500+25.78

HWY. 65
PI = 505+21.73
Δ = 44°17'21"LT.
D = 5°15'00"
T = 444.14'
L = 843.60'
PC = 500+77.59
PT = 509+21.19
e = 0.100'/'
Ls = 630'

C.L. STAGE 2
POE501+98.91
8224
N 12°12'57" E
444.14'
SURVEY BASELINE N00°04'17"E
611.78'
HWY. 65
PI = 505+21.73
Δ = 44°17'21"LT.
D = 5°15'00"
T = 444.14'
L = 843.60'
PC = 500+77.59
PT = 509+21.19
e = 0.100'/'
Ls = 630'
505
C.L. HWY. 65
PT509+21.19
510
8009
N 32°04'24" W
444.14'
PI505+21.73
PNH6
PDoH/TD STD. MON STAMPED T-6
SURVEY BASELINE N29°21'52"W
702.57'
PNH7
PDoH/TD STD. MON STAMPED T-7
STA. 513+00.00 HWY. 65
=STA. 513+00.00 STAGE 2
19.50' OFFSET
POB513+00.00
8214
N 31°30'01" W
200.01'
C.L. STAGE 2
515 515
POE515+00.01
8215
STA. 515+00.00 HWY. 65
=STA. 515+00.01 STAGE 2
17.50' OFFSET
N 32°04'24" W
936.49'
SURVEY BASELINE N33°59'26"W
865.94'
SURVEY BASELINE

11/9/2018
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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	116	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

520

525

530

C.L. HWY. 65

PI525+98.34

N 32°04'24" W
740.66'

SURVEY BASELINE N33°59'26"W
865.94'

POB10

PC518+57.68

PAHID STD. NON STAMPED T-8

SURVEY BASELINE N08°39'39"W
696.03'

SURVEY BASELINE

N 16°36'53" E
740.66'

PAHID STD. NON STAMPED T-9

HWY. 65
PI = 525+98.34
Δ = 48°41'17"RT.
D = 3°30'00"
T = 740.66'
L = 1391.09'
PC = 518+57.68
PT = 532+48.77
e = 0.086'/'
Ls = 630'

POB12

SURVEY BASELINE N13°52'55"E
850.95'

N 16°36'53" E
2031.81'

PT532+48.77

STA. 100+14.62
BEGIN SKYHILL DRIVE

SKYHILL DRIVE
PI = 100+94.71
Δ = 15°54'55"RT.
D = 10°00'00"
T = 80.09'
L = 159.15'
PC = 100+14.62
PT = 101+73.77
NO SUPERELEVATION

S 89°18'02" E
14.62'

B074

POB100+00.00 100

PC100+14.62

B075 S 89°18'02" E 80.09'

PI100+94.71

C.L. SKYHILL DRIVE

S 73°23'07" E
80.09'

PT101+73.77

B077 S 73°23'07" E 110.83'

535

540

545

SURVEY BASELINE

3°52'55"E

PAHID PDAHID STD. NON STAMPED T-10

SURVEY BASELINE N15°55'14"E
628.61'

B078

POE102+84.60

N 16°36'53" E
2031.81'

PAHID PDAHID STD. NON STAMPED T-11

SURVEY BASELINE N20°40'23"E
711.64'

STA. 102+84.60 ON SKYHILL DRIVE=
STA. 539+10.00 ON HWY. 167
Δ 90°00'00"

C.L. HWY. 65

11/9/2018

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	117	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

550 555 560 565

HWY. 65
PI = 556+17.36
Δ = 20°00'05"LT.
D = 3°00'00"
T = 336.78'
L = 666.71'
PC = 552+80.58
PT = 559+47.29
e = 0.077'/'
Ls = 540'

SURVEY BASELINE N20°48'23"E 711.64'
N 16°36'53" E 2031.81'
PKNL12 POAHTD STD. MON STAMPED T-12
PC552+80.58
8013
SURVEY BASELINE N08°15'11"E 794.21'
SURVEY BASELINE
N 16°36'53" E 336.78'
N 3°23'12" W 336.78'
PI556+17.36
PT559+47.29
8015
PKNL15 POAHTD GPS #710012
C.L. HWY. 65
N 3°23'12" W 523.51'
8016
SURVEY BASELINE N08°37'44"E 666.24'
PC564+70.80

HWY. 65
PI = 567+49.74
Δ = 4°10'56"RT.
D = 0°45'00"
T = 278.94'
L = 557.62'
PC = 564+70.80
PT = 570+28.42
e = 0.023'/'
Ls = 540'

STA. 1000+00.00
BEGIN DRIVEWAY 568+50

DRIVEWAY 568+50
PI = 1000+51.80
Δ = 80°10'53"LT.
R = 50'
T = 42.09'
L = 69.97'
PC = 1000+09.72
PT = 1000+79.69
NO SUPERELEVATION

8095 8096 8097 8098 8099 8100 8101
S 85°26'52" E 42.09'
S 85°26'52" E
PT1000+79.69
POB999+99.57
1000
PC1000+09.72
C.L. DRIVEWAY 568+50
PI1001+81.19
PI1000+51.80
N 14°22'16" E 42.09'
N 14°22'16" E 63.08'
N 14°22'16" E 38.43'
N 89°27'26" E 38.43'
PI567+49.74
PC1001+42.76
N 89°27'26" E 75.08'
PT1002+08.29
8102
N 3°23'12" W 278.93'
N 0°47'44" E 278.93'
POE1002+83.37
8018
C.L. HWY. 65
N 0°47'44" E 577.96'
PC576+06.39
8019
N 0°47'44" E 360.84'
N 35°47'47" W 360.84'
PI579+67.23

DRIVEWAY 568+50
PI = 1001+81.19
Δ = 75°05'11"RT.
R = 50'
T = 38.43'
L = 65.53'
PC = 1001+42.76
PT = 1002+08.29
NO SUPERELEVATION

HWY. 65
PI = 579+67.23
Δ = 36°35'31"LT.
D = 5°15'00"
T = 360.84'
L = 696.98'
PC = 576+06.39
PT = 583+03.37
e = 0.100'/'
Ls = 630'

565 570 575 580

HWY. 65
PI = 567+49.74
Δ = 4°10'56"RT.
D = 0°45'00"
T = 278.94'
L = 557.62'
PC = 564+70.80
PT = 570+28.42
e = 0.023'/'
Ls = 540'

SURVEY BASELINE N00°29'08"W 612.32'
PKNL13 POAHTD STD. MON STAMPED T-13
PT570+28.42
PKNL14 POAHTD STD. MON STAMPED T-14
SURVEY BASELINE N00°27'43"E 643.07'
SURVEY BASELINE
PKNL83 POAHTD GPS #710212
SURVEY BASELINE N31°17'43"W 861.85'
PI579+67.23

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	118	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 200+00
BEGIN ISOM LANE

ISOM LANE
PI = 201+37.55
Δ = 26°33'57"LT.
D = 15°00'00"
T = 90.17'
L = 177.11'
PC = 200+47.38
PT = 202+24.48
NO SUPERELEVATION

P.O.B. 200+00.00

PC200+47.38

PI201+37.55

C.L. ISOM LANE

PT202+24.48

POE203+42.54

8228
S 89°51'57" E 47.38'
S 89°51'57" E 90.17'
N 63°34'06" E 90.17'
N 63°34'06" E 180.6'

8229
8227
8226
8228
8229

STA. 203+42.54 ON ISOM LANE=
STA. 581+25.00 ON HWY. 167
Δ 90°00'00"

N 35°47'47" W
360.84'

SURVEY BASELINE N31°17'43"W
861.85'

8021

PT583+03.37

HWY. 65
PI = 579+67.23
Δ = 36°35'31"LT.
D = 5°15'00"
T = 360.84'
L = 696.98'
PC = 576+06.39
PT = 583+03.37
e = 0.100'/'
Ls = 630'

585

C.L. HWY. 65

N 35°47'47" W
568.42'

8022

PC588+71.79

590

PI592+36.26

HWY. 65
PI = 592+36.26
Δ = 28°33'05"RT.
D = 4°00'00"
T = 364.47'
L = 713.78'
PC = 588+71.79
PT = 595+85.57
e = 0.093'/'
Ls = 630'

N 35°47'47" W
364.47'

SURVEY BASELINE N34°23'22"W
658.68'

SURVEY BASELINE

N 7°14'42" W
364.47'

595

PT595+85.58

SURVEY BASELINE N03°19'21"W
751.67'

8024

PANEL POINT NO. 1 STAMPED 1-15

PANEL POINT NO. 2 STAMPED 1-16

PANEL POINT NO. 3 STAMPED 1-17

PANEL POINT NO. 4 STAMPED 1-18

600600600

605605605

610610

HWY. 65
PI = 605+00.79
Δ = 14°21'07"LT.
D = 2°00'00"
T = 360.69'
L = 717.60'
PC = 601+40.10
PT = 608+57.70
e = 0.055'/'
Ls = 540'

STA. 597+00.00 HWY. 65
=STA. 597+00.00 STAGE 2
17.50' OFFSET

STA. 597+00.00 HWY. 65
=STA. 597+00.00 STAGE 1
17.97' OFFSET

P.O.B. 597+00.00

P.O.B. 597+00.00

8204

8186

SURVEY BASELINE N03°19'21"W
751.67'

N 7°14'42" W
554.53'

N 5°49'11" W
237.50'

PC599+37.50

8187

C.L. STAGE 1

SURVEY BASELINE

N 7°14'42" W
603.31'

PC601+40.10

8025

C.L. STAGE 2

PC603+03.31

8205

SURVEY BASELINE N16°15'17"W
802.95'

N 7°14'42" W
360.69'

N 5°49'11" W
426.34'

N 22°44'57" W
426.34'

N 21°35'49" W
360.69'

N 7°14'42" W
360.69'

N 21°35'49" W
360.69'

PI603+63.84

PI605+00.79

PI606+64.00

STAGE 1
P.I. = 603+63.84
Δ = 16° 55' 46" LT.
D = 2° 00' 00"
T = 426.34'
L = 846.47'
P.C. = 599+37.50
P.T. = 607+83.97

STAGE 2
P.I. = 606+64.00
Δ = 14° 21' 07" LT.
D = 2° 00' 00"
T = 360.69'
L = 717.60'
P.C. = 603+03.31
P.T. = 610+20.91

PT607+83.97

POE608+02.31

PT608+57.70

STA. 608+00.00 HWY. 65
=STA. 608+02.31 STAGE 1
8.95' OFFSET

8189

8190

N 22°44'57" W
18.34'

8207

8208

PT610+20.91

POE611+00.75

STA. 611+00.00 HWY. 65
=STA. 611+00.75 STAGE 2
23.50' OFFSET

N 21°35'49" W
397.91'

N 21°35'49" W
79.84'

SURVEY BASELINE N23°53'18"W
725.93'

11/9/2018

RCA0801.DGN

SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	119	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

HWY. 65
PI = 618+38.64
Δ = 39°12'25"RT.
D = 3°30'00"
T = 583.03'
L = 1120.20'
PC = 612+55.61
PT = 623+75.81
e = 0.086'/'
Ls = 630'

STAGE 1
P.I. = 620+06.95
Δ = 13° 03' 416" RT.
D = 8° 00' 00"
T = 81.99'
L = 163.27'
P.C. = 619+24.96
P.T. = 620+88.23

STAGE 2
P.I. = 623+22.56
Δ = 14° 54' 12" RT.
D = 3° 30' 00"
T = 214.11'
L = 425.81'
P.C. = 621+08.45
P.T. = 625+34.26

DRIVEWAY 623+00
PI = 1201+47.89
Δ = 75°02'36"LT.
R = 50'
T = 38.40'
L = 65.49'
PC = 1201+09.49
PT = 1201+74.98
NO SUPERELEVATION

DRIVEWAY 628+00
PI = 1300+81.83
Δ = 69°23'59"RT.
R = 50'
T = 34.62'
L = 60.56'
PC = 1300+47.21
PT = 1301+07.77
NO SUPERELEVATION

DRIVEWAY 631+35
PI = 1352+38.01
Δ = 80°35'21"LT.
R = 35'
T = 29.68'
L = 49.23'
PC = 1352+05.33
PT = 1351+57.56
NO SUPERELEVATION

DRIVEWAY 631+35
PI = 1350+50.62
Δ = 79°18'17"RT.
R = 35'
T = 29.01'
L = 48.44'
PC = 1350+21.62
PT = 1350+70.06
NO SUPERELEVATION

HWY. 65
PI = 635+26.68
Δ = 10°15'34"LT.
D = 2°15'00"
T = 228.60'
L = 455.98'
PC = 632+98.08
PT = 637+54.06
e = 0.061'/'
Ls = 540'

STA. 1200+00.00
BEGIN DRIVEWAY 623+00

STA. 1302+32.29
END DRIVEWAY 628+00

STA. 1350+00.00
BEGIN DRIVEWAY 631+35

STA. 619+00.00 HWY. 65
=STA. 619+00.00 STAGE 1
9.14' OFFSET

STA. 619+00.00 HWY. 65
=STA. 619+00.00 STAGE 2
23.50' OFFSET

STA. 624+00.00 HWY. 65
=STA. 623+98.51 STAGE 1
26.97' OFFSET

STA. 627+00.00 HWY. 65
=STA. 626+98.39 STAGE 2
17.50' OFFSET

STA. 629+00.00 HWY. 65
=STA. 629+00.00 STAGE 2
17.50' OFFSET

STA. 632+30.00 HWY. 65
=STA. 632+98.08 STAGE 2
23.50' OFFSET

STA. 642+00.00 HWY. 65
=STA. 642+00.00 STAGE 2
23.50' OFFSET

C.L. HWY. 65
C.L. STAGE 1
C.L. STAGE 2
C.L. DRIVEWAY 623+00
C.L. DRIVEWAY 628+00
C.L. DRIVEWAY 631+35
SURVEY BASELINE
SURVEY BASELINE N23°53'18"W 725.93'
SURVEY BASELINE N03°04'11"E 594.14'
SURVEY BASELINE N21°51'11"E 681.62'
SURVEY BASELINE N10°57'53"E 750.48'
SURVEY BASELINE N13°18'07"E 606.24'
SURVEY BASELINE N07°52'37"E 667.55'
N 21°35'49" W 583.03'
N 3°32'12" E 24.96'
N 3°32'12" E 81.99'
N 16°35'53" E 81.99'
N 2°42'24" E 214.11'
N 2°42'24" E 208.45'
N 16°35'53" E 310.28'
N 17°36'36" E 583.03'
N 17°36'36" E 214.11'
N 17°36'36" E 164.14'
N 17°36'36" E 922.27'
N 16°34'06" E 330.05'
N 17°36'36" E 228.60'
N 7°21'02" E 228.60'
N 8°23'31" E 330.05'
N 7°21'02" E 2326.99'
S 72°23'24" E 47.21'
S 72°23'24" E 34.62'
S 72°23'24" E 54.56'
S 75°02'36" E 60.53'
S 75°02'36" E 38.40'
S 71°06'26" E 29.62'
S 71°06'26" E 29.10'
S 0°00'00" E 109.49'
S 0°00'00" E 124.52'
S 2°59'26" E 34.62'
S 2°59'26" E
S 8°11'56" W 29.68'
S 8°11'56" W 138.27'
S 8°11'56" W 29.10'
S 8°11'56" W

POB619+00.00
POB629+00.00
POB642+00.00
POB1200+00.00
POB1300+00.00
POB1350+00.00
PI618+38.64
PI620+06.95
PI620+47.89
PI623+22.56
PI1352+38.01
PI1350+50.62
PI1300+81.83
PI635+26.68
PC619+24.96
PC621+08.45
PC632+98.08
PC1300+47.21
PC1350+21.62
PT620+88.23
PT623+75.81
PT623+98.51
PT625+34.26
PT637+54.06
PT1201+74.98
PT1301+07.77
PT1352+57.56
PT1350+70.06
POE623+98.51
POE626+98.39
POE632+30.05
POE1202+35.51
POE1302+32.29
POE1353+12.12
PCI352+08.33
PCI300+47.21
PI623+22.56
PI1201+09.49
PI1201+47.89
PI1202+35.51
PI1352+38.01
PI1300+81.83
PI635+26.68
PDA#1 STD. MON STAMPED T-19
PDA#2 STD. MON STAMPED T-20
PDA#21 PDA#TD STD. MON STAMPED T-21
PDA#22 PDA#TD STD. MON STAMPED T-22
PDA#23 PDA#TD STD. MON STAMPED T-23
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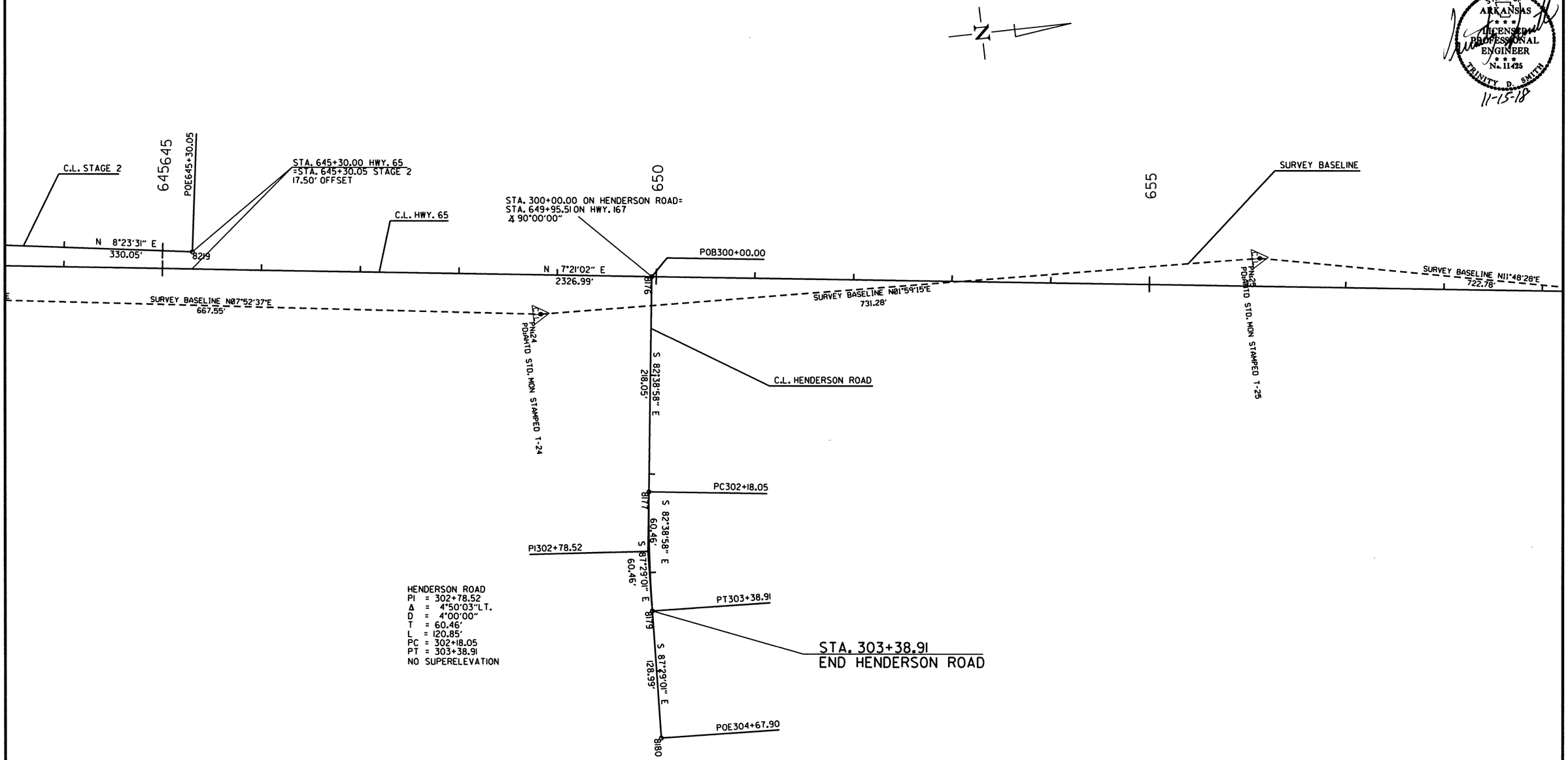
SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	120	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



HENDERSON ROAD
PI = 302+78.52
Δ = 4°50'03"LT.
D = 4°00'00"
T = 60.46'
L = 120.85'
PC = 302+18.05
PT = 303+38.91
NO SUPERELEVATION

11/9/2018

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	121	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D SMITH
11-15-18

660

PC660+81.04

N 7°21'02" E
2326.99'

8034

STA. 400+00.00 ON NATURAL BRIDGE ROAD=
STA. 664+86.36 ON HWY. 167
Δ 90°00'00"

665

SURVEY BASELINE N11°48'28"E
722.78'

PMK26
PKNAIL STD. MON STAMPED T-26

8181

C.L. HWY. 65

POB400+00.00

SURVEY BASELINE N06°10'11"W
357.97'

N 7°21'02" E
712.50'

PC401+54.26

N 81°08'16" E
154.26'

8182 61.14'

PT402+76.08

PI402+15.40

N 81°08'16" E LS
86°40'46" E 61.14'

8184

C.L. NATURAL BRIDGE ROAD

S 86°40'46" E
278.35'

8185

POE405+54.44

405

STA. 402+76.08
END NATURAL BRIDGE ROAD

NATURAL BRIDGE ROAD
PI = 402+15.40
Δ = 12°10'58"RT.
D = 10°00'00"
T = 61.14'
L = 121.83'
PC = 401+54.26
PT = 402+76.08
NO SUPERELEVATION

670

SURVEY BASELINE

SURVEY BASELINE N37°17'18"W
606.18'

PKNAIL STD. MON STAMPED T-27

N 45°32'33" W
712.50'

PI667+93.54

HWY. 65
PI = 667+93.54
Δ = 52°53'35"LT.
D = 4°00'00"
T = 712.50'
L = 1322.33'
PC = 660+81.04
PT = 674+03.37
e = 0.093'/'
Ls = 630'

675

PI674+03.37

SURVEY BASELINE N40°05'13"W
738.12'

8036

N 45°32'33" W
1157.81'

POE679+84.65

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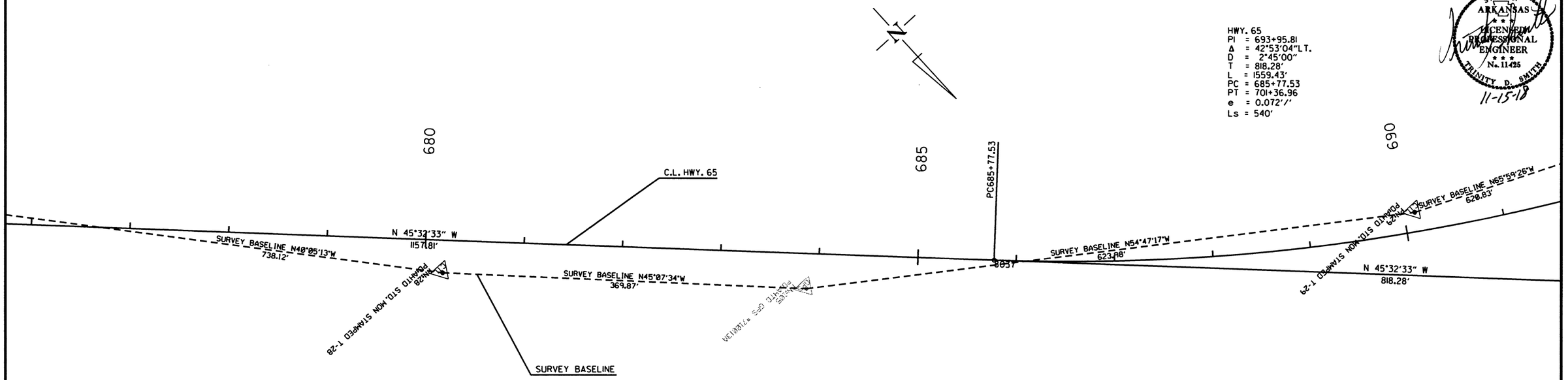
SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	122	605

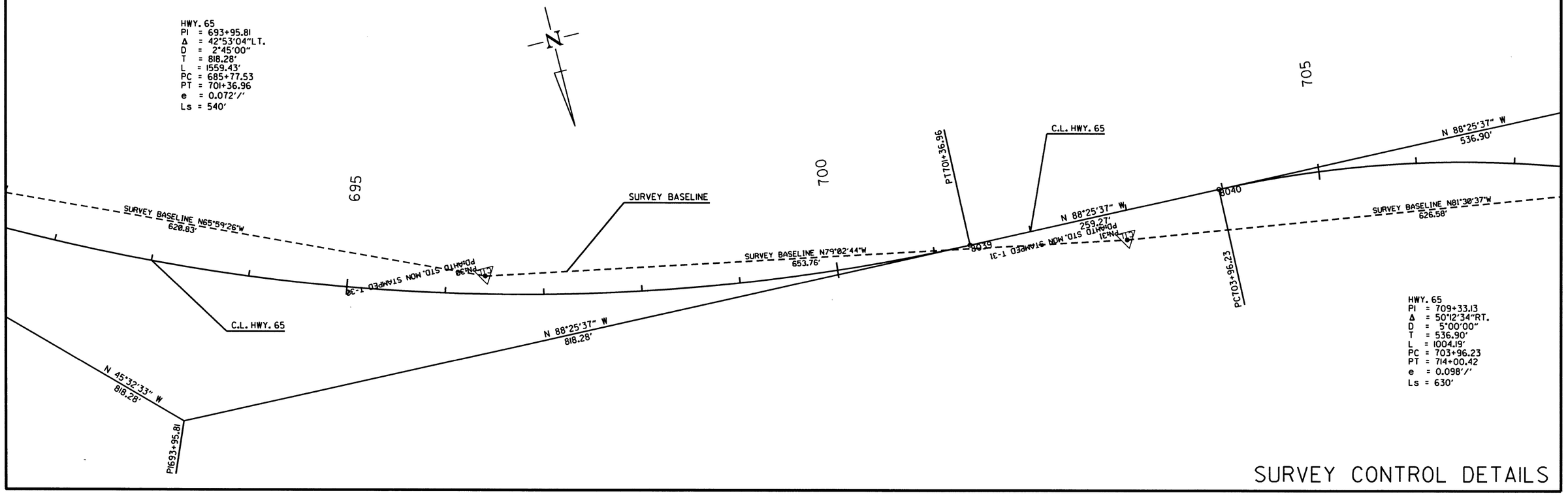
(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

HWY. 65
PI = 693+95.81
Δ = 42°53'04"LT.
D = 2°45'00"
T = 818.28'
L = 1559.43'
PC = 685+77.53
PT = 701+36.96
e = 0.072'/'
Ls = 540'



HWY. 65
PI = 693+95.81
Δ = 42°53'04"LT.
D = 2°45'00"
T = 818.28'
L = 1559.43'
PC = 685+77.53
PT = 701+36.96
e = 0.072'/'
Ls = 540'



HWY. 65
PI = 709+33.13
Δ = 50°12'34"RT.
D = 5°00'00"
T = 536.90'
L = 1004.19'
PC = 703+96.23
PT = 714+00.42
e = 0.098'/'
Ls = 630'

11/9/2018

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	123	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 500+71.97
BEGIN GLENN ROAD

HWY. 65
PI = 709+33.13
Δ = 50°12'34"RT.
D = 5°00'00"
T = 536.90'
L = 1004.19'
PC = 703+96.23
PT = 714+00.42
e = 0.098'/'
Ls = 630'

GLENN ROAD
PI = 502+07.66
Δ = 41°32'44"LT.
D = 26°30'00"
T = 82.01'
L = 156.78'
PC = 501+25.65
PT = 502+82.42
NO SUPERELEVATION

PI709+33.13
N 88°25'37" W
536.90'
710
N 38°13'03" W
536.90'
PI502+07.66
715
S 86°40'19" E
125.65'
S 86°40'19" E
82.01'
S 86°40'19" E
82.01'
N 51°46'57" E
82.01'
N 51°46'57" E
82.01'
N 51°46'57" E
710.48'
POB500+00.00
500
PC501+25.65
C.L. GLENN ROAD
PT502+82.42
POE503+52.90
720
SURVEY BASELINE N46°25'43"W
654.25'
SURVEY BASELINE N81°30'37"W
626.58'
PK42 PUSHPIN SET ON MON STAMPED L-32
PK43 PUSHPIN SET ON MON STAMPED L-33
PK38 PUSHPIN SET ON MON STAMPED L-34
8042
PT714+00.42
SURVEY BASELINE
STA. 503+52.90 ON GLENN ROAD=
STA. 715+00.00 ON HWY. 167
Δ 90°00'00"
SURVEY BASELINE N38°58'00"W
669.89'
N 38°13'03" W
1346.90'
C.L. HWY. 65

HWY. 65
PI = 731+45.08
Δ = 7°56'33"RT.
D = 1°00'00"
T = 397.76'
L = 794.25'
PC = 727+47.32
PT = 735+41.57
e = 0.030'/'
Ls = 540'

725
730
735
PI731+45.08
SURVEY BASELINE
SURVEY BASELINE N38°23'37"W
641.63'
N 38°13'03" W
1346.90'
PK35 PUSHPIN SET ON MON STAMPED 1-35
N 38°13'03" W
397.76'
SURVEY BASELINE N33°53'33"W
632.45'
N 30°16'30" W
397.76'
PK35 PUSHPIN SET ON MON STAMPED 1-35
SURVEY BASELINE N30°02'01"W
700.55'
N 30°16'30" W
1585.84'
8043
8045
PC727+47.32
C.L. HWY. 65
PT735+41.57

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	124	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
* * *
LICENSED A PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-15-18

HWY. 65
PI = 758+54.73
Δ = 21°33'42"LT.
D = 1°30'00"
T = 727.32'
L = 1437.44'
PC = 751+27.41
PT = 765+64.85
e = 0.043'/'
Ls = 540'

740 745 750

SURVEY BASELINE

SURVEY BASELINE N30°02'01"W 700.55'

FND#37 PUDAHTD STD. MON STAMPED 1-37

N 30°16'30" W 1585.84'

SURVEY BASELINE N30°17'43"W 679.56'

C.L. HWY. 65

FND#38 PUDAHTD STD. MON STAMPED 1-38

PC751+27.41

SURVEY BASELINE N31°50'54"W 670.04'

8046

N 30°16'30" W 727.32'

STA. 1400+00.00
BEGIN DRIVEWAY 759+00

POBI400+00.00 1400

8121

C.L. DRIVEWAY 759+00

N 9°16'25" W 196.68'

PCI401+96.68

N 9°16'25" W 27.38'

8129

PII402+24.06

N 48°08'10" E 27.38'

PTI402+46.78

8131 69.57'

N 48°08'10" E

8132

POEI403+16.34

N 51°50'12" W 727.32'

PI1758+54.73

DRIVEWAY 759+00
PI = 1402+24.06
Δ = 57°24'35"RT.
R = 50'
T = 27.38'
L = 50.10'
PC = 1401+96.68
PT = 1402+46.78
NO SUPERELEVATION

755 760 765 770

SURVEY BASELINE

FND#39 PUDAHTD STD. MON STAMPED 1-39

SURVEY BASELINE N38°28'54"W 681.66'

N 30°16'30" W 727.32'

C.L. HWY. 65

PT765+64.85

8048

SURVEY BASELINE N58°23'15"W 843.11'

FND#40 PUDAHTD STD. MON STAMPED 1-40

HWY. 65
PI = 758+54.73
Δ = 21°33'42"LT.
D = 1°30'00"
T = 727.32'
L = 1437.44'
PC = 751+27.41
PT = 765+64.85
e = 0.043'/'
Ls = 540'

8133

POBI450+00.00

N 51°50'12" W 492.83'

PTI451+70.52

PCI450+54.19

8134

N 38°09'48" E 54.19'

N 38°09'48" E 73.53'

DRIVEWAY 768+00
PI = 1451+27.73
Δ = 88°52'08"RT.
R = 75'
T = 73.53'
L = 116.33'
PC = 1450+54.19
PT = 1451+70.52
NO SUPERELEVATION

8136

S 52°58'04" E 73.53'

8137

S 52°58'04" E 45.22'

C.L. DRIVEWAY 768+00

PII451+27.73

STA. 1452+15.75
END DRIVEWAY 768+00

POEI452+15.75

SURVEY CONTROL DETAILS

11/9/2018

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	125	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

HWY. 65
PI = 774+66.72
Δ = 16°15'06"RT.
D = 2°00'00"
T = 409.04'
L = 812.58'
PC = 770+57.68
PT = 778+70.26
e = 0.055'/'
Ls = 540'

PI 774+66.72

PNA1 PDoH TO STD. MON STAMPED 1-41

PNA2 PDoH TO STD. MON STAMPED 1-42

N 51°50'12" W
409.04'

N 35°35'06" W
409.04'

SURVEY BASELINE N45°53'38"W
570.32'

775 780 785

8049

PC770+57.68

8051

PT778+70.26

SURVEY BASELINE N27°00'37"W
369.19'

N 35°35'06" W
1744.94'

C.L. HWY. 65

SURVEY BASELINE N42°52'22"W
649.23'

SURVEY BASELINE

790 795 800

PNA3 PDoH TO STD. MON STAMPED 1-43

N 35°35'06" W
1744.94'

SURVEY BASELINE N30°17'51"W
618.87'

C.L. HWY. 65

PNA4 PDoH TO STD. MON STAMPED 1-44

SURVEY BASELINE

PC796+15.20

8052

SURVEY BASELINE N36°13'24"W
472.37'

HWY. 65
PI = 802+22.36
Δ = 35°16'18"LT.
D = 3°00'00"
T = 607.16'
L = 1175.73'
PC = 796+15.20
PT = 807+90.93
e = 0.077'/'
Ls = 540'

SURVEY BASELINE N54°09'53"W
618.71'

POBl475+00.00

N 14°09'40" E
54.56'
8139

N 35°35'06" W
607.16'

PC1475+54.56

N 44°09'40" E
53.82'
8139

C.L. DRIVEWAY 799+57

8141

S 41°37'28" E
53.82'

8142

S 41°37'28" E
55.89'

STA. 1476+92.67
END DRIVEWAY 799+57

PI1476+08.38

POE1476+92.67

PT1476+36.78

DRIVEWAY 799+58
PI = 1476+08.38
Δ = 94°12'52"RT.
R = 50'
T = 53.82'
L = 82.22'
PC = 1475+54.56
PT = 1476+36.78
NO SUPERELEVATION

SURVEY CONTROL DETAILS

11/9/2018

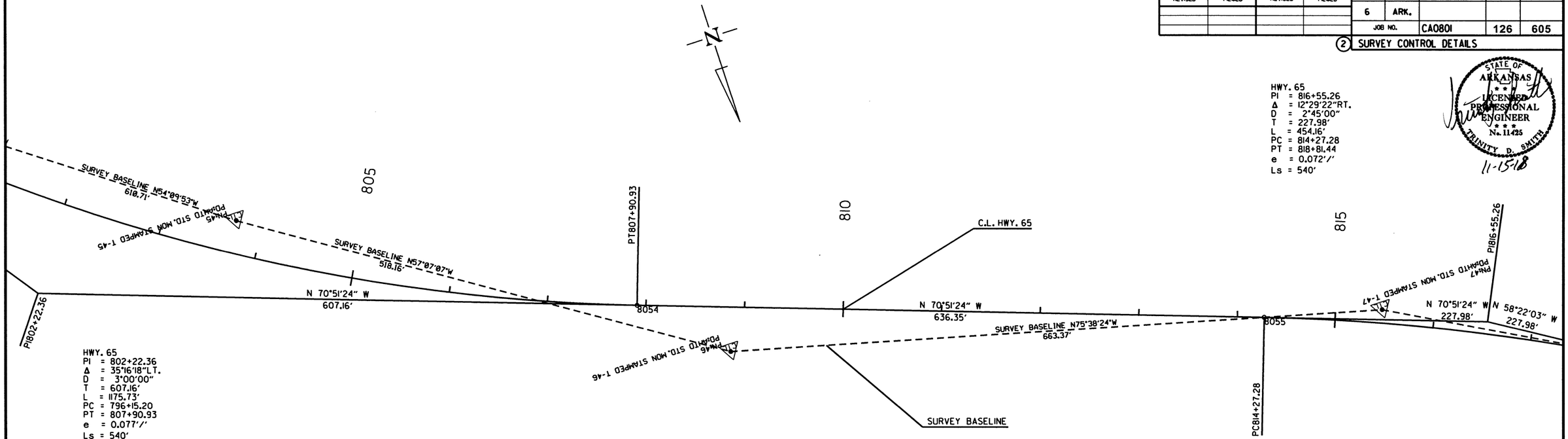
RCA0801.DGN

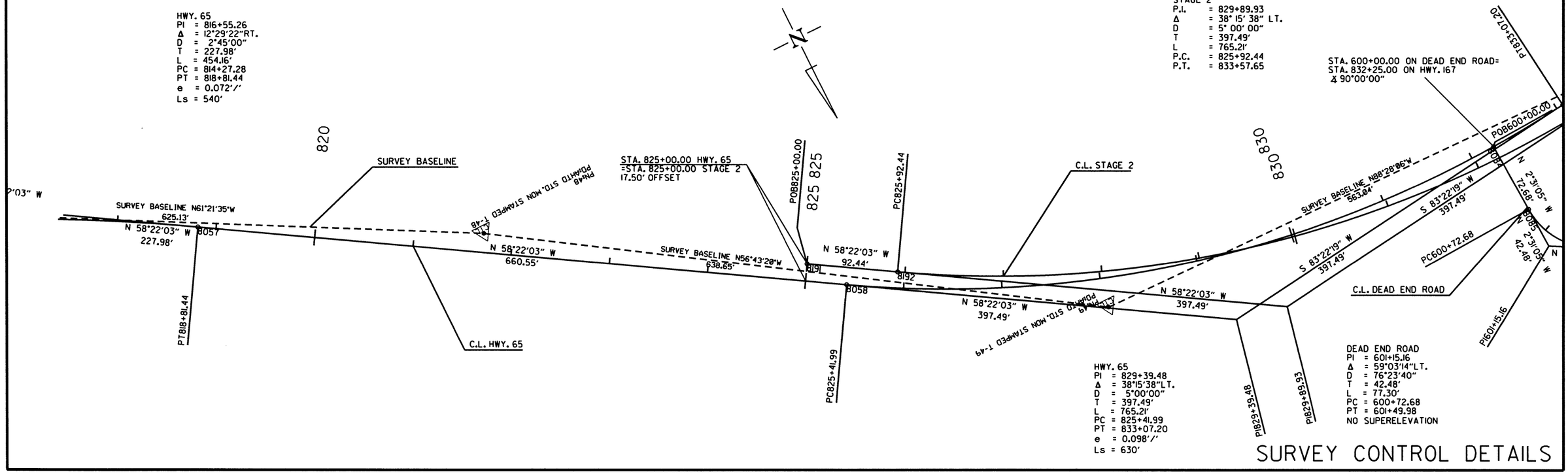
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	126	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

HWY. 65
PI = 816+55.26
Δ = 12°29'22"RT.
D = 2°45'00"
T = 227.98'
L = 454.16'
PC = 814+27.28
PT = 818+81.44
e = 0.072'/'
Ls = 540'





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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	127	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STAGE 2
P.I. = 829+89.93
Δ = 38° 15' 38" LT.
D = 5° 00' 00"
T = 397.49'
L = 765.21'
P.C. = 825+92.44
P.T. = 833+57.65

HWY. 65
PI = 829+39.48
Δ = 38°15'38"LT.
D = 5°00'00"
T = 397.49'
L = 765.21'
PC = 825+41.99
PT = 833+07.20
e = 0.098'/'
Ls = 630'

HWY. 65
PI = 846+22.11
Δ = 67°18'12"RT.
D = 5°00'00"
T = 762.84'
L = 1346.07'
PC = 838+59.27
PT = 852+05.34
e = 0.098'/'
Ls = 630'

SURVEY BASELINE

835 835

840 840

845 845

PI833+07.20

PT833+57.65

PI846+22.11

PI846+29.43

PI849.98

PN50 PO:AHTD STD. MON STAMPED T-50

PN51 PO:AHTD STD. MON STAMPED T-51

PN52 PO:AHTD STD. MON STAMPED T-52

PN53 PO:AHTD STD. MON STAMPED T-53

8060 8194 8061 8195 8088 8089 8086 8090 8147 8144

SURVEY BASELINE S81°36'16"W 676.60'

S 83°22'19" W 552.07'

S 83°22'19" W 508.94'

S 83°22'19" W 762.84'

S 83°22'19" W 762.84'

SURVEY BASELINE N67°00'49"W 545.23'

SURVEY BASELINE N51°28'15"W 365.00'

SURVEY BASELINE N32°13'29"W 869.98'

PC838+59.27

PC838+66.59

C.L. STAGE 2

C.L. HWY. 65

C.L. DRIVEWAY 848+50

C.L. DEAD END ROAD

STA. 602+38.61
END DEAD END ROAD

DEAD END ROAD
PI = 601+15.16
Δ = 59°03'14"LT.
D = 76°23'40"
T = 42.48'
L = 77.30'
PC = 600+72.68
PT = 601+49.98
NO SUPERELEVATION

DRIVEWAY 848+50
PI = 1501+53.26
Δ = 61°35'53"LT.
R = 25'
T = 14.90'
L = 26.88'
PC = 1501+38.36
PT = 1501+65.24
NO SUPERELEVATION

PI1501+53.26

PC1501+38.36

PT1501+65.24

POE1502+27.97

PI1603+48.43

PT1603+90.38

PI1604+85.85

602+61.76

N 61°34'20" W 86.68'

N 36°41'23" E 86.68'

N 36°41'23" E 43.61'

N 61°34'20" W 77.77'

N 42°54'37" E 14.90'

S 75°29'36" E 14.90'

N 29°19'29" W 762.84'

N 29°19'29" W 762.84'

STAGE 2
P.I. = 846+29.43
Δ = 67° 18' 12" RT.
D = 5° 00' 00"
T = 762.84'
L = 1346.07'
P.C. = 838+66.59
P.T. = 852+12.66

N

605

SURVEY CONTROL DETAILS

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				6	ARK.			
				JOB NO.		CA0801	128	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

DRIVEWAY 848+50
PI = 1501+53.26
Δ = 61°35'53"LT.
R = 25'
T = 14.90'
L = 26.88'
PC = 1501+38.36
PT = 1501+65.24
NO SUPERELEVATION

STA. 1500+00.00
BEGIN DRIVEWAY 848+50

STA. 1600+00.00
BEGIN DRIVEWAY 852+00

DRIVEWAY 852+00
PI = 1601+48.63
Δ = 51°22'49"RT.
R = 50'
T = 24.05'
L = 44.84'
PC = 1601+24.58
PT = 1601+69.41
NO SUPERELEVATION

HWY. 65
PI = 846+22.11
Δ = 67°18'12"RT.
D = 5°00'00"
T = 762.84'
L = 1346.07'
PC = 838+59.27
PT = 852+05.34
e = 0.098'/'
Ls = 630'

DRIVEWAY 854+56
PI = 1651+06.62
Δ = 68°51'47"LT.
R = 50'
T = 34.28'
L = 60.09'
PC = 1650+72.34
PT = 1651+32.43
NO SUPERELEVATION

STA. 1652+40.48
END DRIVEWAY 854+56

HWY. 65
PI = 861+56.02
Δ = 16°11'27"RT.
D = 3°15'00"
T = 250.76'
L = 498.18'
PC = 859+05.26
PT = 864+03.44
e = 0.082'/'
Ls = 540'

DRIVEWAY 876+75
PI = 1702+18.99
Δ = 78°03'58"LT.
R = 50'
T = 40.54'
L = 68.13'
PC = 1701+78.46
PT = 1702+46.58
NO SUPERELEVATION

DRIVEWAY 876+75
PI = 1700+65.19
Δ = 78°21'24"RT.
R = 50'
T = 40.75'
L = 68.38'
PC = 1700+24.44
PT = 1700+92.82
NO SUPERELEVATION

STA. 1700+00.00
BEGIN DRIVEWAY 876+75

HWY. 65
PI = 873+70.61
Δ = 19°01'19"LT.
D = 3°00'00"
T = 319.98'
L = 634.07'
PC = 870+50.63
PT = 876+84.70
e = 0.077'/'
Ls = 540'

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	129	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

880 885 890 895

C.L. HWY. 65

SURVEY BASELINE N31°21'09"W 628.14'

N 32°09'21" W 1220.26'

SURVEY BASELINE N31°21'09"W 628.14'

SURVEY BASELINE N34°33'10"W 268.99'

N 32°09'21" W 325.38'

N 38°39'23" W 325.38'

SURVEY BASELINE N37°05'59"W 613.27'

PC889+04.95

8070

PT892+30.33

SURVEY BASELINE

FOUND STD. MON STAMPED I-58

FOUND STD. MON STAMPED I-59

HWY. 65
PI = 892+30.32
Δ = 6°30'03"LT.
D = 1°00'00"
T = 325.38'
L = 650.06'
PC = 889+04.95
PT = 895+55.01
e = 0.030'/'
Ls = 540'

895 900 905 910

PT895+55.01

HWY. 65
PI = 892+30.32
Δ = 6°30'03"LT.
D = 1°00'00"
T = 325.38'
L = 650.06'
PC = 889+04.95
PT = 895+55.01
e. = 0.030'/'
Ls = 540'

N 38°39'23" W 325.38'

8072

SURVEY BASELINE N37°05'59"W 613.27'

SURVEY BASELINE N42°40'30"W 716.12'

N 38°39'23" W 1826.32'

SURVEY BASELINE N40°27'59"W 615.04'

SURVEY BASELINE

C.L. HWY. 65

FOUND STD. MON STAMPED I-60

FOUND STD. MON STAMPED I-61

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	130	605

(2) SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

910

STA. 700+00.00 ON HWY. 110=
STA. 911+10.00 ON HWY. 167
Δ 90°00'00"

POE913+81.33

SURVEY BASELINE N37°04'44"W
685.66'

8073

POB700+00.00

C.L. HWY. 65

8079

N 5°20'37" E
173.45'

8080

PC701+73.45

STA. 912+34.04
END JOB CA0801

SURVEY BASELINE

SURVEY BASELINE N38°17'12"W
685.66'

SURVEY BASELINE N04°28'51"W
724.52'

N 5°20'37" E
180.31'

C.L. HWY. 110

HWY. 110
PI = 703+53.76
Δ = 39°47'30"LT.
D = 11°30'00"
T = 180.31'
L = 346.01'
PC = 701+73.45
PT = 705+19.46
e = 0.074'/'
Ls = 250'

PI703+53.76

N 11°33'07" E
180.31'

705
PT705+19.46
POE705+22.42

8082 8083
N 11°33'07" E
2.96'

STA. 705+22.42
END HWY. 110

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SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	131	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 491+19 IN PLACE
D.I. ON LT. WITH 8' EXTENSION
& 18" x 117' PIPE OUTLET
CONNECTED TO D.I. @ STA. 489+94 LT.
RETAIN

STA. 492+43 IN PLACE
D.I. ON LT. WITH 8' EXTENSION
& 18" x 116' PIPE OUTLET
CONNECTED TO D.I. @ STA. 491+19 LT.
RETAIN

STA. 493+43 IN PLACE
D.I. ON LT. WITH 8' EXTENSION
& 18" x 93' PIPE OUTLET
CONNECT TO D.I. @ STA. 492+43 LT.
RETAIN

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
LOG MILE 15.63

STA. 494+19 IN PLACE
D.I. ON LT. WITH 4' EXTENSION
& 24" x 5' R.C. STUB INLET
WITH FES.
& 24" x 87' R.C. STUB OUTLET
WITH FES.
RETAIN

STA. 495+93 IN PLACE
D.I. ON LT. WITH 4' EXTENSION
& 24" x 170' PIPE OUTLET
CONNECTED TO D.I. @ STA. 494+19 LT.
RETAIN

STA. 496+77 IN PLACE
D.I. ON LT. WITH 18" x 80' PIPE OUTLET
CONNECT TO D.I. @ 495+93 LT.
& 18" x 126 R.C. STUB INLET
WITH F.E.S.
REMOVE F.E.S. & 100' STUB INLET
PLUG AND ABANDON

STA. 497+04.40 TO STA. 500+21.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 222.68 SQ. YD.

STA. 500+48.33 TO STA. 509+53.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 636.28 SQ. YD.

STA. 500+62 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE AND CONSTRUCT
DBL. 24" X 158' R.C. PIPE CULVERT
(CLASS IV)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 45 C.F.S. D.A. = 11.6 ACRES
24" R.C. PIPE CULVERT = 316 LIN. FT.
24" F.E.S. = 4 EACH

STA. 500+30 CONSTRUCT
APPROACH ON LT. = 170 CU. YD. COMP. EMB.
= 20 CU. YD. UNCL. EXC.

HWY. 65
PI = 505+21.73
Δ = 44°17'21"LT.
D = 5°15'00"
T = 444.14'
L = 843.60'
PC = 500+77.59
PT = 509+21.19
e = 0.100'/'
Ls = 630'

HWY. 65
PI = 490+43.64
Δ = 40°05'54"LT.
D = 5°30'00"
T = 380.17'
L = 729.06'
PC = 486+63.47
PT = 493+92.53

STA. 489+94 IN PLACE
D.I. ON LT. WITH 8' EXTENSION
& 18" x 166' PIPE OUTLET
CONNECTED TO D.I. @ STA. 488+19 LT.
RETAIN

STA. 495+93 IN PLACE
D.I. ON RT. WITH 4' EXTENSION
& 18" x 59' R.C. PIPE OUTLET
CONNECTED TO D.I. @ STA. 495+93 LT.
RETAIN

STA. 502+75.00 TO STA. 509+21.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 454.35 SQ. YD.

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

HWY. 65

STA. 497+04.36 BEGIN SUPERELEVATION
STA. 503+34.36 MAX. SUPERELEVATION (0.100'/')
STA. 507+59.44 MAX. SUPERELEVATION (0.100'/')
STA. 513+89.44 END SUPERELEVATION

STA. 497+04.36
BEGIN JOB CA0801 &
END JOB 080390
ELEV. 589.86

P.V.I. 497+04.36
ELEV. 589.86

6.93%

LT. DITCH GRADE 3.64%

P.V.C. 498+27.90
ELEV. 598.42

K=166.67
VC=155'
e=-0.18'

498+00.00 (LT.)
595.40 (LT.)

P.V.I. 499+05.40
ELEV. 603.78

499+12.36
599.49 (LT.)

P.V.I. 499+82.90
ELEV. 608.43

500+62.00
606.12 (LT.)

+62 (EXIST.)
F.L. INLET ELEV. (LT.)=608.62
F.L. OUTLET ELEV. (RT.)=602.43

+62
F.L. INLET ELEV. (LT.)=606.12
F.L. OUTLET ELEV. (RT.)=597.22

LT. DITCH GRADE 6.20%

6.00%

503+34.36
623.00 (LT.)

LT. DITCH GRADE 6.00%

502+75.00
627.63 (RT.)

RT. DITCH GRADE 6.35%

504+35.00
637.80 (RT.)

RT. DITCH GRADE 6.00%

650 640 630 620 610 600 590 580 570 560

490+00 491+00 492+00 493+00 494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503+00 504+00 505+00

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12-12-18			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	132	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 505+21.73
Δ = 44°17'21"LT.
D = 5°15'00"
T = 444.14'
L = 843.60'
PC = 500+77.59
PT = 509+21.19
e = 0.100'/'
Ls = 630'

STA. 509+50 CONSTRUCT
TYPE ST DROP INLET 34.5' LT. OF C.L.
WITH 24" X 220' PIPE INLET WITH F.E.S.
AND 24" X 22' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=3'-8"
TYPE ST DROP INLET = 1EACH
24" R.C. PIPE (CLASS III)(TYPE 3 BEDDING) = 242 LIN. FT.
24" SLPCCS (TYPE 2) = 250 LIN. FT.
24" F.E.S. = 2 EACH

STA. 511+04 IN PLACE
24" X 40' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON LT. = 300 CU. YD. UNCL. EXC.

STA. 511+75.00 TO STA. 512+19.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 30.95 SQ. YD.

STA. 512+46 INSTALL
24" X 54' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.
= 25 CU. YD. UNCL. EXC.

STA. 512+73.00 TO STA. 516+84.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 289.07 SQ. YD.

STA. 517+05 IN PLACE
22" X 14" X 32' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 42' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 115 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 517+26.00 TO STA. 519+29.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 142.78 SQ. YD.

STA. 519+67.00 TO STA. 519+85.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 12.66 SQ. YD.

STA. 519+48 IN PLACE
18" X 18' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.

HWY. 65
PI = 525+98.34
Δ = 48°41'17"RT.
D = 3°30'00"
T = 740.66'
L = 1391.09'
PC = 518+57.68
PT = 532+48.77
e = 0.086'/'
Ls = 630'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11495
TRINITY D. SMITH
12-12-18

STA. 508+07 IN PLACE
24" X 91' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE

STA. 509+58 IN PLACE
12" X 23' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 50 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

STA. 510+23 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 60 CU. YD. UNCL. EXC.

STA. 510+60 INSTALL
18" X 280' PIPE CULVERT
RT. SIDE DRAIN

STA. 511+65 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 10 CU. YD. COMP. EMB.
= 15 CU. YD. UNCL. EXC.

STA. 513+60 INSTALL
18" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 80 CU. YD. COMP. EMB.
= 20 CU. YD. UNCL. EXC.

STA. 515+42 IN PLACE
22" X 14" X 27' C.M. ARCH PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 90 CU. YD. UNCL. EXC.

STA. 516+70 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 10 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

STA. 517+30 IN PLACE
22" X 14" X 23' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 38' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 80 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

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

STA. 497+04.36 BEGIN SUPERELEVATION
STA. 503+34.36 MAX. SUPERELEVATION (0.100'/')
STA. 507+59.44 MAX. SUPERELEVATION (0.100'/')
STA. 513+89.44 END SUPERELEVATION

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
514+60	516+97	LT.	O	237
517+13	519+22	LT.	O	209
519+22	519+40	LT.	5' CHAIN LINK	18

STA. 513+89.44 BEGIN SUPERELEVATION
STA. 520+19.44 MAX. SUPERELEVATION (0.086'/')
STA. 530+91.27 MAX. SUPERELEVATION (0.086'/')
STA. 537+21.27 END SUPERELEVATION

STA. 512+00.00 TO STA. 513+40.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 98.47 SQ. YD.

STA. 513+80.00 TO STA. 514+65.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 59.78 SQ. YD.

STA. 517+49.00 TO STA. 517+70.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 14.77 SQ. YD.

STA. 518+06.00 TO STA. 518+62.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 39.39 SQ. YD.

STA. 514+65 CONSTRUCT
TYPE ST DROP INLET 34.5' RT. OF C.L.
WITH 18" X 230' PIPE INLET WITH F.E.S.
AND 18" X 20' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=2'-6"
TYPE ST DROP INLET = 1EACH
18" R.C. PIPE (CLASS III)(TYPE 3 BEDDING) = 250 LIN. FT.
18" SLPCCS (TYPE 2) = 258 LIN. FT.
18" F.E.S. = 2 EACH

STA. 517+88 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

STA. 518+94 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 5 CU. YD. COMP. EMB.
= 20 CU. YD. UNCL. EXC.

STA. 518+60 CONSTRUCT
TYPE ST DROP INLET 34.5' RT. OF C.L.
18" X 22' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=3'-8"
TYPE ST DROP INLET = 1EACH
18" R.C. PIPE (CLASS III)(TYPE 3 BEDDING) = 22 LIN. FT.
18" SLPCCS (TYPE 2) = 26 LIN. FT.
18" F.E.S. = 1EACH

+07 (EXIST.)
F.L. INLET ELEV. (LT.)=662.31
F.L. OUTLET ELEV. (RT.)=658.54

STA. 509+50
TOP ELEV.=665.63
F.L. ELEV.=661.97

507+60.00
657.29 (RT.)

509+21.19
665.42' (RT.)

509+50.00
661.38 (LT.)

507+59.44
648.50 (LT.)

RT. DITCH GRADE 6.00%
RT. DITCH GRADE 5.05%
LT. DITCH GRADE 6.76%
LT. DITCH GRADE 6.00%
6.00%
18" X 230' @ 5.16%
RT. DITCH GRADE 7.20%

514+38.28
691.83 (RT.)

514+65.00
693.75 (RT.)

STA. 514+65
TOP ELEV.=696.69
F.L. ELEV.=694.23

518+17.32
713.77 (RT.)

518+60.00
716.16 (RT.)

RT. DITCH GRADE 5.60%

STA. 518+60
TOP ELEV.=720.23
F.L. ELEV.=716.57

730 720 710 700 690 680 670 660 650 640

505+00 506+00 507+00 508+00 509+00 510+00 511+00 512+00 513+00 514+00 515+00 516+00 517+00 518+00 519+00 520+00

12/7/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
12-12-18				6	ARK.			
				JOB NO.		CA0801	133	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

STA. 521+06 IN PLACE
24" X 72' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE
STA. 521+18 CONSTRUCT
24" X 120' R.C. PIPE CULVERT
ON 10° LT. FWD. SKEW
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 20.10 C.F.S. D.A. = 3.92 ACRES
24" R.C. PIPE CULVERT = 120 LIN. FT.
24" F.E.S. = 2 EACH
CONSTRUCT OUTLET = 205 CU. YD. UNCL. EXC.

STA. 521+00 CONSTRUCT
APPR. ON LT. = 75 CU. YD. COMP. EMB.
STA. 522+49 IN PLACE
22" X 14" X 25' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 54' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 270 CU. YD. COMP. EMB.

STA. 525+23 IN PLACE
12" X 30' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 54' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 300 CU. YD. COMP. EMB.

STA. 520+04 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 95 CU. YD. COMP. EMB.

STA. 526+83 IN PLACE
15" X 33' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 50' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 275 CU. YD. COMP. EMB.

STA. 529+15 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 52' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 245 CU. YD. COMP. EMB.

STA. 531+86 IN PLACE
15" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 44' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 130 CU. YD. COMP. EMB.

STA. 526+95 IN PLACE
29" X 18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
24" X 32' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 55 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 526+30 IN PLACE
29" X 18" X 40' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
24" X 48' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 85 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 523+63 IN PLACE
24" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 34' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 60 CU. YD. COMP. EMB.

STA. 529+78 INSTALL
18" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.

STA. 520+60 CONSTRUCT
APPROACH ON LT. = 20 CU. YD. UNCL. EXC.

STA. 521+77 IN PLACE
24" X 16' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.

STA. 522+34 IN PLACE
29" X 18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
24" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 90 CU. YD. COMP. EMB.

HWY. 65
PI = 525+98.34
Δ = 48°41'17"RT.
D = 3°30'00"
T = 740.66'
L = 1391.09'
PC = 518+57.68
PT = 532+48.77
e = 0.086'/'
Ls = 630'

STA. 528+19 IN PLACE
24" X 69' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE AND CONSTRUCT
24" X 122' R.C. PIPE CULVERT
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 28.3 C.F.S. D.A. = 6.84 ACRES
24" R.C. PIPE CULVERT = 122 LIN. FT.
24" F.E.S. = 2 EACH

STA. 527+11.00 TO STA. 528+07.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 67.52 SQ. YD.

STA. 528+96.00 TO STA. 530+25.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 90.73 SQ. YD.

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
533+29	538+04	RT.	C	475

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

HWY. 65

STA. 521+90.00 TO STA. 522+24.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 15.11 SQ. YD.

STA. 522+74.00 TO STA. 524+96.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 156.14 SQ. YD.

STA. 525+49.00 TO STA. 526+59.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 77.37 SQ. YD.

STA. 527+07.00 TO STA. 528+90.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 128.71 SQ. YD.

STA. 529+40.00 TO STA. 531+65.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 158.25 SQ. YD.

STA. 532+07.00 TO STA. 537+22.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 362.22 SQ. YD.

STA. 521+97.00 TO STA. 522+14.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 11.96 SQ. YD.

STA. 522+54.00 TO STA. 523+45.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 64.00 SQ. YD.

STA. 523+80.00 TO STA. 523+05.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 158.25 SQ. YD.

STA. 526+54.00 TO STA. 526+79.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 17.58 SQ. YD.

STA. 513+89.44 BEGIN SUPERELEVATION
STA. 520+19.44 MAX. SUPERELEVATION (0.086'/')
STA. 530+91.27 MAX. SUPERELEVATION (0.086'/')
STA. 537+21.27 END SUPERELEVATION

+06 (EXIST.)
F.L. INLET ELEV. (LT.)=733.21
F.L. OUTLET ELEV. (RT.)=731.05

+18
F.L. INLET ELEV. (LT.)=736.58
F.L. OUTLET ELEV. (RT.)=728.52

+19 (EXIST.)
F.L. INLET ELEV. (LT.)=770.78
F.L. OUTLET ELEV. (RT.)=769.31

+19
INLET ELEV. (LT.)=771.91
OUTLET ELEV. (RT.)=767.13

521+29.24
736.58 (LT.)

521+06.00
728.52 (RT.)

P.V.C. 522+98.89
ELEV. 747.39

524+00.00
749.55 (LT.)

P.V.I. 523+98.89
ELEV. 753.39

524+00.00
747.44 (RT.)

K=173.91
VC=200'
e=-0.29'

P.V.T. 524+98.89
ELEV. 758.24

P.V.C. 525+30.96
ELEV. 759.80

526+00.00
761.20 (LT.)

P.V.I. 526+30.96
ELEV. 764.65

K=571.43
VC=200'
e=0.09'

527+00.00
762.52 (RT.)

P.V.T. 527+30.96
ELEV. 769.85

528+19.00
773.30 (LT.)

528+19.00
771.91 (LT.)

528+19.00
767.13 (RT.)

530+00.00
782.11 (LT.)

530+25.00
779.95 (RT.)

531+50.00
792.75 (LT.)

6.00%
LT. DITCH GRADE 4.79%
RT. DITCH GRADE 6.43%
LT. DITCH GRADE 5.83%
RT. DITCH GRADE 5.03%
LT. DITCH GRADE 5.52%
RT. DITCH GRADE 3.88%
LT. DITCH GRADE 5.63%
RT. DITCH GRADE 6.22%
LT. DITCH GRADE 7.10%
5.20%

520+00 521+00 522+00 523+00 524+00 525+00 526+00 527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00

720 730 740 750 760 770 780 790 800

12/7/2018
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	134	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
TRINITY D. SMITH
No. 11425
11-15-18

STA. 539+10 IN PLACE
24" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 48' PIPE CULVERT
LT. SIDE DRAIN
STA. 537+42 INSTALL
24" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 110 CU. YD. COMP. EMB.
STA. 102+84.60 ON SKYHILL DRIVE=
STA. 539+10.00 ON HWY. 167
Δ 90°00'00"

STA. 540+58 IN PLACE
15" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 95 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 541+61 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 542+42 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 543+92 INSTALL
18" X 36' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.

STA. 545+80 CONSTRUCT
TURNOUT ON LT. = 120 CU. YD. COMP. EMB.

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
545+94	553+13	LT.	C	719

PC100+14.62
PI100+94.71
PTI01+73.77
POE102+84.60
N 16°36'53" E
PROPOSED R/W
EXISTING R/W
CONST. LIMITS
SKYHILL DRIVE
HWY. 167
VILLAGE ROAD
T.C.E.
535
540
545
550

STA. 535+35 CONSTRUCT
24" X 144' R.C. PIPE CULVERT
(CLASS MIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 35 C.F.S. D.A. = 9.9 ACRES
24" R.C. PIPE CULVERT = 144 LIN. FT.
24" F.E.S. = 2 EACH

STA. 535+77 IN PLACE
24" X 92' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 538+38 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 45 CU. YD. COMP. EMB.

STA. 539+14 IN PLACE
22" X 14" X 18' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 30 CU. YD. COMP. EMB.

STA. 540+23 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 25 CU. YD. COMP. EMB.

STA. 542+96 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 30' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 45 CU. YD. COMP. EMB.

STA. 544+39 INSTALL
18" X 30' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 40 CU. YD. COMP. EMB.

STA. 545+53 IN PLACE
18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 25 CU. YD. COMP. EMB.

STA. 547+26 IN PLACE
24" X 113' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
16' LT. & 28' RT.
TO A COMPLETED LENGTH OF 157'
(CLASS MIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 18.5 C.F.S. D.A. = 5.9 ACRES
24" R.C. PIPE CULVERT = 60 LIN. FT.
24" F.E.S. = 2 EACH
CONSTRUCT OUTLET = 5 CU. YD. UNCL. EXC.

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

STA. 513+89.44 BEGIN SUPERELEVATION
STA. 520+19.44 MAX. SUPERELEVATION (0.086'/')
STA. 530+91.27 MAX. SUPERELEVATION (0.086'/')
STA. 537+21.27 END SUPERELEVATION

STA. 537+62.00 TO STA. 538+86.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 87.21 SQ. YD.

STA. 538+52.00 TO STA. 539+00.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 33.76 SQ. YD.

STA. 539+34.00 TO STA. 540+38.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 73.15 SQ. YD.

STA. 539+28.00 TO STA. 540+09.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 56.97 SQ. YD.

STA. 540+78.00 TO STA. 541+41.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 44.31 SQ. YD.

STA. 540+37.00 TO STA. 542+81.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 171.61 SQ. YD.

STA. 541+81.00 TO STA. 542+22.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 28.84 SQ. YD.

STA. 549+75.00 TO STA. 550+40.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 45.72 SQ. YD.

STA. 542+62.00 TO STA. 543+74.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 78.77 SQ. YD.

STA. 546+67.00 TO STA. 547+20.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 37.28 SQ. YD.

STA. 547+25.00 TO STA. 548+25.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 70.33 SQ. YD.

STA. 548+75.58 BEGIN SUPERELEVATION
STA. 554+15.58 MAX. SUPERELEVATION (0.077'/')
STA. 556+69.05 MAX. SUPERELEVATION (0.077'/')
STA. 562+09.05 END SUPERELEVATION

535+35.00
806.75 (LT.)
LT. DITCH GRADE 5.40%
5.20%
537+21.28
816.81 (LT.)
+77 (EXIST.)
F.L. INLET ELEV. (LT.)=808.37
F.L. OUTLET ELEV. (RT.)=798.91
+35
F.L. INLET ELEV. (LT.)=806.75
F.L. OUTLET ELEV. (RT.)=792.07

P.V.C. 539+09.40
ELEV. 831.13
P.V.I. 541+59.40
ELEV. 844.13
K=158.73
VC=500'
e=-1.97'
P.V.T. 544+09.40
ELEV. 849.25
2.05%
P.V.C. 546+02.26
ELEV. 853.21
K=172.53
VC=500'
e=1.81'
546+26.00
842.50 (LT.)
LT. DITCH GRADE -2.89%
547+26.00
839.61 (LT.)
LT. DITCH GRADE 3.41%
548+26.00
843.02 (LT.)
P.V.I. 548+52.26
ELEV. 858.33
RT. DITCH GRADE 5.38%
549+75.00
859.51 (RT.)
+26
F.L. INLET ELEV. (RT.)=846.83
F.L. INLET ELEV. (EXIST.) (RT.)=844.55
F.L. OUTLET ELEV. (EXIST.) (LT.)=840.46
F.L. OUTLET ELEV. (LT.)=839.61

880 870 860 850 840 830 820 810 800 790
535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00 549+00 550+00

11/13/2018
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	135	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 556+17.36
Δ = 20°00'05"LT.
D = 3°00'00"
T = 336.78'
L = 666.71'
PC = 552+80.58
PT = 559+47.29
e = 0.077'/'
Ls = 540'

HWY. 65
PI = 567+49.74
Δ = 4°10'56"RT.
D = 0°45'00"
T = 278.94'
L = 557.62'
PC = 564+70.80
PT = 570+28.42
e = 0.023'/'
Ls = 540'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 555+25 CONSTRUCT
APPROACH ON LT. = 35 CU. YD. COMP. EMB.

STA. 557+78 CONSTRUCT
APPROACH ON LT. = 60 CU. YD. COMP. EMB.

STA. 556+05.00 TO STA. 557+37.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 92.84 SQ. YD.

STA. 560+35.00 TO STA. 565+38.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 353.78 SQ. YD.

STA. 550+64 IN PLACE
18" X 40' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 48' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 105 CU. YD. COMP. EMB.

STA. 552+85 CONSTRUCT
24" X 118' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 4.9 C.F.S. D.A. = 1.1 ACRES
24" R.C. PIPE CULVERT = 118 LIN. FT.
24" F.E.S. = 2 EACH
CONSTRUCT OUTLET = 5 CU. YD. UNCL. EXC.

STA. 552+94 IN PLACE
24" X 71' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 553+77 IN PLACE
24" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 34' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 75 CU. YD. COMP. EMB.

STA. 558+47 INSTALL
24" X 46' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 115 CU. YD. COMP. EMB.

STA. 562+60 INSTALL
24" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 50 CU. YD. COMP. EMB.
= 105 CU. YD. UNCL. EXC.

STA. 563+78 INSTALL
24" X 34' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 45 CU. YD. COMP. EMB.
= 25 CU. YD. UNCL. EXC.

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

HWY. 65

STA. 548+75.58 BEGIN SUPERELEVATION
STA. 554+15.58 MAX. SUPERELEVATION (0.077'/')
STA. 556+69.05 MAX. SUPERELEVATION (0.077'/')
STA. 562+09.05 END SUPERELEVATION

STA. 550+88.00 TO STA. 553+61.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 192.01 SQ. YD.

STA. 553+93.00 TO STA. 558+25.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 303.84 SQ. YD.

STA. 558+69.00 TO STA. 562+42.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 262.34 SQ. YD.

STA. 562+78.00 TO STA. 563+61.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 58.38 SQ. YD.

STA. 563+95.00 TO STA. 566+98.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 213.11 SQ. YD.

STA. 562+09.05 BEGIN SUPERELEVATION
STA. 567+49.05 MAX. SUPERELEVATION (0.023'/')
STA. 567+77.41 MAX. SUPERELEVATION (0.023'/')
STA. 573+17.41 END SUPERELEVATION

RT. DITCH GRADE 5.38%
550+50.00 (RT.) 863.54
551+10.00 (RT.) 867.31
P.V.T. 551+02.26 ELEV. 870.70
RT. DITCH GRADE 6.29%
RT. DITCH GRADE 7.85%
K=172.53 VC=500' e=1.81'
552+00.00 (RT.) 874.38
P.V.C. 552+38.87 ELEV. 874.46
RT. DITCH GRADE 4.95%
552+85.00 879.23 (RT.)
552+85.00 877.00 (RT.)
RT. DITCH GRADE 5.71%
LT. DITCH GRADE -0.00%
552+71.68 872.62 (LT.)
552+85.00 872.62 (LT.)
553+00.00 874.58 (LT.)
L.T. DITCH GRADE 13.05%
RT. DITCH GRADE 7.46%
554+00.00 885.58 (RT.)
P.V.I. 554+13.87 ELEV. 886.12
K=226.10 VC=350' e=-0.68'
RT. DITCH GRADE 3.86%
556+00.00 893.30 (RT.)
P.V.T. 555+88.87 ELEV. 892.07
3.40%
558+26.89 899.56 (RT.)
RT. DITCH GRADE 2.76%
P.V.C. 559+10.64 ELEV. 903.01
K=250.00 VC=200' e=0.20'
P.V.T. 560+10.64 ELEV. 906.41
4.20%
P.V.T. 561+10.64 ELEV. 910.61
P.V.I. 564+59.71 ELEV. 925.27
K=174.43 VC=175' e=-0.22'
P.V.C. 563+72.21 ELEV. 921.59

+85
F.L. INLET ELEV. (RT.)=877.00
F.L. OUTLET ELEV. (LT.)=872.62

+77 (EXIST.)
F.L. INLET ELEV. (LT.)=874.48
F.L. OUTLET ELEV. (RT.)=873.31

930 920 910 900 890 880 870 860 850 840

550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	136	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

STA. 565+58 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 105 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

STA. 565+77.00 TO STA. 568+18.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 169.50 SQ. YD.

STA. 568+50 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 64' PIPE CULVERT
LT. SIDE DRAIN

STA. 568+81.00 TO STA. 580+98.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 855.96 SQ. YD.

HWY. 65
PI = 579+67.23
Δ = 36°35'31"LT.
D = 5°15'00"
T = 360.84'
L = 696.98'
PC = 576+06.39
PT = 583+03.37
e = 0.100'/'
Ls = 630'

STA. 579+50 CONSTRUCT
24" X 144' R.C. PIPE CULVERT
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 18.3 C.F.S. D.A. = 7.31 ACRES
24" R.C. PIPE CULVERT = 144 LIN. FT.
24" F.E.S. = 2 EACH
CONSRUCT OUTLET = 310 CU. YD.

STA. 579+39 IN PLACE
24" X 85' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE

STA. 580+30 IN PLACE
28" X 20" X 35'
C.M. ARCH PIPE CULVERT
REMOVE

HWY. 65
PI = 567+49.74
Δ = 4°10'56"RT.
D = 0°45'00"
T = 278.94'
L = 557.62'
PC = 564+70.80
PT = 570+28.42
e = 0.023'/'
Ls = 540'

STA. 567+06 CONSTRUCT
APPROACH ON RT. = 35 CU. YD. COMP. EMB.

STA. 570+10 CONSTRUCT
24" X 166' R.C. PIPE CULVERT
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 20.3 C.F.S. D.A. = 8.83 ACRES
24" R.C. PIPE CULVERT = 166 LIN. FT.
24" F.E.S. = 2 EACH

STA. 571+78 CONSTRUCT
APPROACH ON RT. = 35 CU. YD. COMP. EMB.

STA. 571+17 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 573+75 CONSTRUCT
24" X 144' R.C. PIPE CULVERT
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 17.2 C.F.S. D.A. = 7.4 ACRES
24" R.C. PIPE CULVERT = 144 LIN. FT.
24" F.E.S. = 2 EACH

STA. 573+89 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 577+57 INSTALL
18" X 56' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 140 CU. YD. COMP. EMB.
= 45 CU. YD. UNCL. EXC.

STA. 579+17 INSTALL
18" X 74' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 640 CU. YD. COMP. EMB.

STA. 579+95 INSTALL
18" X 68' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 715 CU. YD. COMP. EMB.

HWY. 65

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

STA. 562+09.05 BEGIN SUPERELEVATION
STA. 567+49.05 MAX. SUPERELEVATION (0.023'/')
STA. 567+77.41 MAX. SUPERELEVATION (0.023'/')
STA. 573+17.41 END SUPERELEVATION

STA. 573+62.00 TO STA. 577+31.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 259.53 SQ. YD.
STA. 577+83.00 TO STA. 578+80.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 68.22 SQ. YD.
STA. 579+47.00 TO STA. 579+65.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 12.66 SQ. YD.

STA. 573+17.41 BEGIN SUPERELEVATION
STA. 579+47.41 MAX. SUPERELEVATION (0.100'/')
STA. 579+57.58 MAX. SUPERELEVATION (0.100'/')
STA. 585+87.58 END SUPERELEVATION

P.V.I. 565+47.21
ELEV. 928.07
P.V.T.
K=174.43
VC=175'
e=-0.22'
3.20%
P.V.C. 566+19.07
ELEV. 930.36
P.V.I. 568+11.57
ELEV. 936.52
K=137.34
VC=385'
e=1.35'
P.V.T. 570+04.07
ELEV. 948.07
6.00%
570+10.00
942.36 (LT.)
+10
F.L. INLET ELEV. (LT.)=942.36
F.L. OUTLET ELEV. (RT.)=924.99
571+04.12
950.11 (LT.)
L.T. DITCH GRADE 8.25%
572+51.82
958.40 (RT.)
RT. DITCH GRADE -2.42%
573+75.00
963.44 (LT.)
573+75.00
955.41 (RT.)
+17 (EXIST.)
F.L. INLET ELEV. (LT.)=947.95
F.L. OUTLET ELEV (RT.)=942.97
+75
F.L. INLET ELEV. (LT.)=963.44
F.L. OUTLET ELEV. (RT.)=955.41
P.V.C. 574+31.17
ELEV. 973.69
L.T. DITCH GRADE 7.57%
RT. DITCH GRADE 11.51%
575+16.53
974.16 (LT.)
576+15.44
983.22 (RT.)
576+57.14
981.90 (LT.)
K=384.68
VC=1000'
e=-3.25'
RT. DITCH GRADE 6.32%
LT. DITCH GRADE 4.43%
578+00.00
994.88 (RT.)
P.V.I. 579+31.17
ELEV. 1003.69
3.40%
RT. DITCH GRADE -1.72%
579+50.00
994.88 (LT.)
579+50.00
993.92 (LT.)
579+50.00
992.30 (RT.)
L.T. DITCH GRADE 5.16%
RT. DITCH GRADE 11.06%
+39 (EXIST.)
F.L. INLET ELEV. (LT.)=996.76
F.L. OUTLET ELEV. (RT.)=996.51
+50
F.L. INLET ELEV. (LT.)=993.92
F.L. OUTLET ELEV. (RT.)=992.30

1000 990 980 970 960 950 940 930 920

565+00 566+00 567+00 568+00 569+00 570+00 571+00 572+00 573+00 574+00 575+00 576+00 577+00 578+00 579+00 580+00

11/13/2018

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12-12-18				6	ARK.			
				JOB NO.		CA0801	137	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

STA. 581+25 INSTALL
24" X 60' PIPE CULVERT
LT. SIDE DRAIN

PI201+37.55

PC200+47.38

STA. 584+27 IN PLACE
24" X 72' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 584+35 CONSTRUCT
30" X 124' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 29.0 C.F.S. D.A. = 10.5 ACRES
30" R.C. PIPE CULVERT = 124 LIN. FT.
30" F.E.S. = 2 EACH

STA. 588+04 CONSTRUCT
APPROACH ON LT. = 55 CU. YD. COMP. EMB.

HWY. 65
PI = 592+36.26
Δ = 28°33'05"RT.
D = 4°00'00"
T = 364.47'
L = 713.78'
PC = 588+71.79
PT = 595+85.57
e = 0.093'/'
Ls = 630'

STA. 583+20 INSTALL
18" X 38' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 80 CU. YD. COMP. EMB.

STA. 582+79 IN PLACE
18" X 21' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE

STA. 583+96 CONSTRUCT
APPROACH ON LT. = 80 CU. YD. COMP. EMB.

STA. 585+78 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 60 CU. YD. COMP. EMB.

ISOM LANE

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

P202+24.48

PI588+03.37

POE203+42.54

N 35°47'47" W

N 7°14'42" W

PI592+36.26

PC588+71.79

HWY. 65
PI = 579+67.23
Δ = 36°35'31"LT.
D = 5°15'00"
T = 360.84'
L = 696.98'
PC = 576+06.39
PT = 583+03.37
e = 0.100'/'
Ls = 630'

STA. 203+42.54 ON ISOM LANE
STA. 581+25.00 ON HWY. 167
Δ 90°00'00"

STA. 581+25 INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.

STA. 582+15 CONSTRUCT
APPROACH ON RT. = 145 CU. YD. COMP. EMB.

STA. 583+34 CONSTRUCT
APPROACH ON RT. = 145 CU. YD. COMP. EMB.

STA. 584+81 CONSTRUCT
APPROACH ON RT. = 130 CU. YD. COMP. EMB.

STA. 586+18 IN PLACE
22" X 14" X 20' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 32' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.

STA. 587+26 CONSTRUCT
APPROACH ON RT. = 20 CU. YD. COMP. EMB.

STA. 588+66 IN PLACE
4' X 3' X 79' R.C. BOX CULVERT
WITH 3# WINGS LT. AND RIGHT
RETAIN AND EXTEND
26' LT. & 24' RT.
TO A COMPLETED LENGTH OF 129'
050 = 47.1 C.F.S. D.A. = 11.4 ACRES

STA. 590+60 IN PLACE
24" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 30' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 55 CU. YD. COMP. EMB.

STA. 595+37 CONSTRUCT
APPROACH ON RT. = 100 CU. YD. COMP. EMB.

STA. 593+10 IN PLACE
18" X 40' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 25 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

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

HWY. 65

STA. 573+17.41 BEGIN SUPERELEVATION
STA. 579+47.41 MAX. SUPERELEVATION (0.100'/')
STA. 579+57.58 MAX. SUPERELEVATION (0.100'/')
STA. 585+87.58 END SUPERELEVATION

STA. 581+38.00 TO STA. 581+75.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 26.02 SQ. YD.

STA. 585+87.00 TO STA. 586+02.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 10.55 SQ. YD.

STA. 586+34.00 TO STA. 587+18.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 59.08 SQ. YD.

STA. 592+00.00 TO STA. 592+95.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 66.82 SQ. YD.

STA. 593+24.00 TO STA. 595+00.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 123.79 SQ. YD.

STA. 581+52.00 TO STA. 583+00.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 104.09 SQ. YD.

STA. 583+39.00 TO STA. 583+88.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 34.46 SQ. YD.

STA. 584+22.00 TO STA. 585+61.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 97.76 SQ. YD.

STA. 585+95.00 TO STA. 587+96.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 141.37 SQ. YD.

STA. 588+25.00 TO STA. 589+00.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 52.75 SQ. YD.

STA. 585+87.58 BEGIN SUPERELEVATION
STA. 592+17.58 MAX. SUPERELEVATION (0.093'/')
STA. 592+32.84 MAX. SUPERELEVATION (0.093'/')
STA. 598+62.84 END SUPERELEVATION

581+00.00 1008.89 (RT.)
RT. DITCH GRADE 3.13%
581+75.00 1011.24 (RT.)
RT. DITCH GRADE 11.06%
LT. DITCH GRADE 5.16%
K=384.68 VC=1000' e=-3.25'
582+52.32 1009.52 (LT.)
+27 (EXIST.) F.L. INLET ELEV. (LT.)=1014.95 F.L. OUTLET ELEV. (RT.)=1012.91
+35 F.L. INLET ELEV. (LT.)=1013.93 F.L. OUTLET ELEV. (RT.)=1013.48
584+35.00 1013.93 (LT.)
P.V.T. 584+31.17 ELEV. 1020.70
LT. DITCH GRADE 5.91%
3.40%
585+29.02 1019.49 (LT.)
RT. DITCH GRADE 5.11%
585+85.00 1017.66 (RT.)
P.V.C. 586+15.98 ELEV. 1026.98
P.V.I. 587+15.98 ELEV. 1030.38
K=499.43 VC=200' e=-0.10'
587+00.00 1023.54 (RT.)
P.V.T. 588+15.98 ELEV. 1033.38
RT. DITCH GRADE 2.30%
588+00.00 1026.00 (RT.)
588+65.51 1030.80 (LT.)
588+65.51 1024.49 (RT.)
589+50.00 1035.13 (LT.)
3.00%
LT. DITCH GRADE 5.12%
RT. DITCH GRADE 5.17%
+66 F.L. INLET ELEV. (LT.)=1030.80 F.L. INLET ELEV. (EXIST.) (LT.)=1027.60 F.L. OUTLET ELEV. (EXIST.) (RT.)=1024.82 F.L. OUTLET ELEV. (RT.)=1024.49
P.V.C. 591+50.87 ELEV. 1043.43
591+00.00 1036.61 (RT.)
RT. DITCH GRADE 2.33%
K=761.90 VC=800' e=-1.05'
592+25.00 1039.53 (RT.)
RT. DITCH GRADE 3.22%
595+00.00 1048.39 (RT.)

1080 1070 1060 1050 1040 1030 1020 1010 1000 990

580+00 581+00 582+00 583+00 584+00 585+00 586+00 587+00 588+00 589+00 590+00 591+00 592+00 593+00 594+00 595+00

12/7/2018

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12-12-18				6	ARK.			
				JOB NO.		CA0801	138	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 592+36.26
Δ = 28°33'05"RT.
D = 4°00'00"
T = 364.47'
L = 713.78'
PC = 588+71.79
PT = 595+85.57
e = 0.093'/'
Ls = 630'

STA. 595+82 IN PLACE
24" X 72' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
26' LT. & 20' RT.
TO A COMPLETED LENGTH OF 118'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 19.7 C.F.S. D.A. = 6.8 ACRES
24" R.C. PIPE CULVERT = 62 LIN. FT.
24" F.E.S. = 2 EACH

STA. 597+30 IN PLACE
24" X 96' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE AND CONSTRUCT
30" X 140' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 37.9 C.F.S. D.A. = 13.9 ACRES
30" R.C. PIPE CULVERT = 140 LIN. FT.
30" F.E.S. = 2 EACH

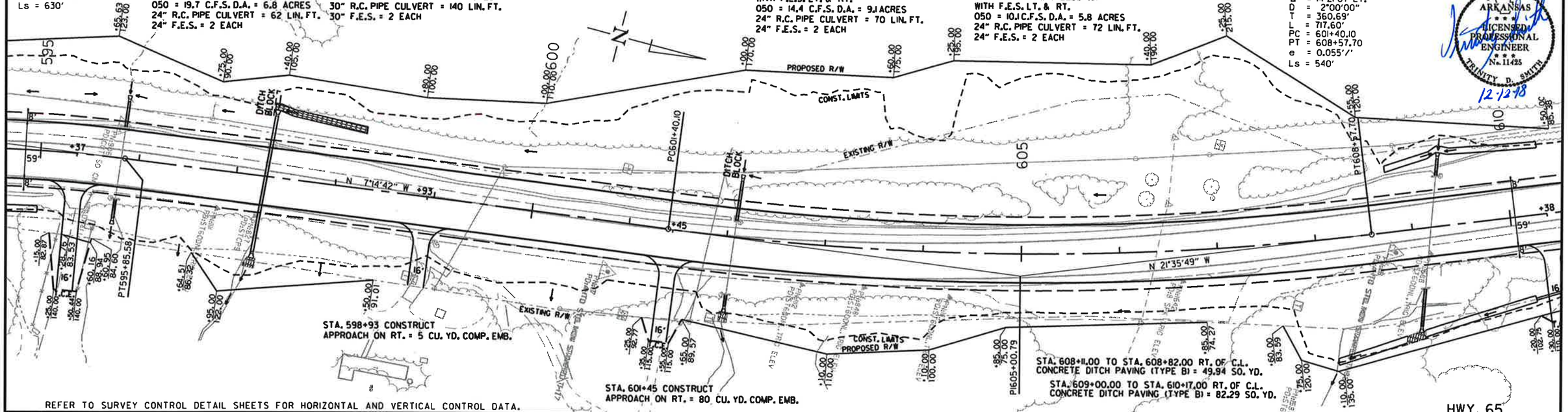
STA. 608+78.00 TO STA. 610+35.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 110.42 SQ. YD.

STA. 602+08 IN PLACE
24" X 76' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
42' LT. & 12' RT.
TO A COMPLETED LENGTH OF 130'
(CLASS III)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 14.4 C.F.S. D.A. = 9.1 ACRES
24" R.C. PIPE CULVERT = 70 LIN. FT.
24" F.E.S. = 2 EACH

STA. 609+19 IN PLACE
24" X 116' R.C. PIPE CULVERT
ON 10° LT. FWD. SKEW
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
18' LT. & 38' RT.
TO A COMPLETED LENGTH OF 172'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 10.1 C.F.S. D.A. = 5.8 ACRES
24" R.C. PIPE CULVERT = 72 LIN. FT.
24" F.E.S. = 2 EACH

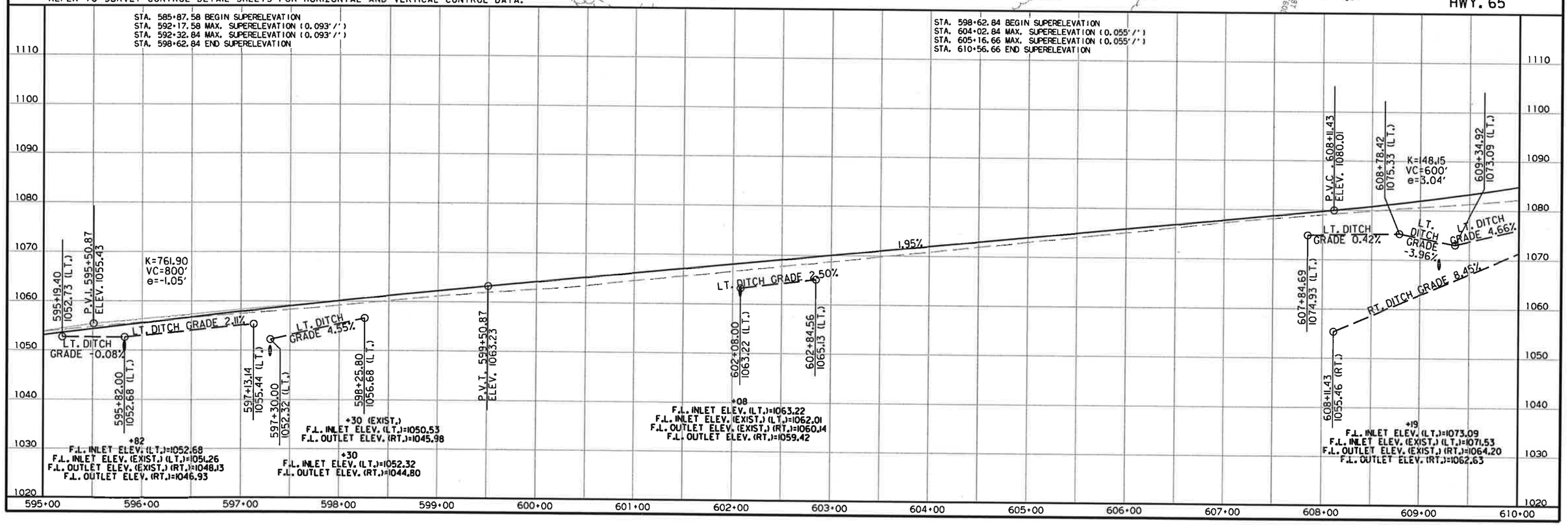
HWY. 65
PI = 605+00.79
Δ = 14°21'07"LT.
D = 2°00'00"
T = 360.69'
L = 717.60'
PC = 601+40.10
PT = 608+57.70
e = 0.055'/'
Ls = 540'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18



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

HWY. 65



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(2) PLAN AND PROFILE SHEETS

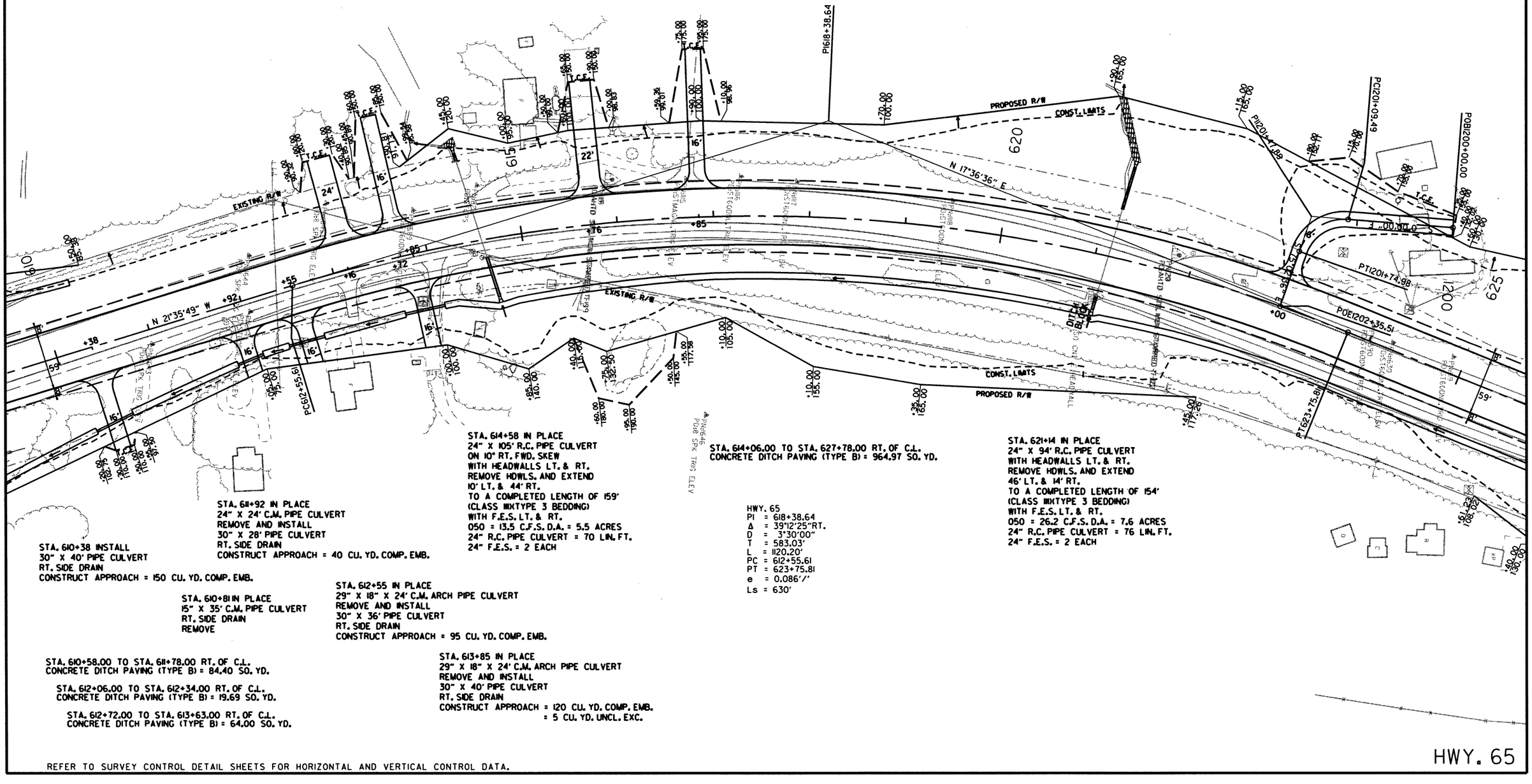
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

STA. 613+16 CONSTRUCT
APPROACH ON LT. = 200 CU. YD. COMP. EMB.

STA. 613+72 CONSTRUCT
APPROACH ON LT. = 395 CU. YD. COMP. EMB.

STA. 615+76 CONSTRUCT
APPROACH ON LT. = 380 CU. YD. COMP. EMB.

STA. 616+85 CONSTRUCT
APPROACH ON LT. = 560 CU. YD. COMP. EMB.



STA. 610+38 INSTALL
30" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 150 CU. YD. COMP. EMB.

STA. 611+92 IN PLACE
24" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
30" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 40 CU. YD. COMP. EMB.

STA. 610+81 IN PLACE
15" X 35' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE

STA. 612+55 IN PLACE
29" X 18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
30" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 95 CU. YD. COMP. EMB.

STA. 610+58.00 TO STA. 611+78.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 84.40 SQ. YD.

STA. 612+06.00 TO STA. 612+34.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 19.69 SQ. YD.

STA. 612+72.00 TO STA. 613+63.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 64.00 SQ. YD.

STA. 613+85 IN PLACE
29" X 18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
30" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 120 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 614+58 IN PLACE
24" X 105' R.C. PIPE CULVERT
ON 10° RT. FWD. SKEW
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
10' LT. & 44' RT.
TO A COMPLETED LENGTH OF 159'
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 13.5 C.F.S. D.A. = 5.5 ACRES
24" R.C. PIPE CULVERT = 70 LIN. FT.
24" F.E.S. = 2 EACH

STA. 614+06.00 TO STA. 627+78.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 964.97 SQ. YD.

HWY. 65
PI = 618+38.64
Δ = 39°12'25"RT.
D = 3°30'00"
T = 583.03'
L = 1120.20'
PC = 612+55.61
PT = 623+75.81
e = 0.086'/'
Ls = 630'

STA. 621+14 IN PLACE
24" X 94' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
46' LT. & 14' RT.
TO A COMPLETED LENGTH OF 154'
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 26.2 C.F.S. D.A. = 7.6 ACRES
24" R.C. PIPE CULVERT = 76 LIN. FT.
24" F.E.S. = 2 EACH

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

11/13/2018

RCA0801.DGN

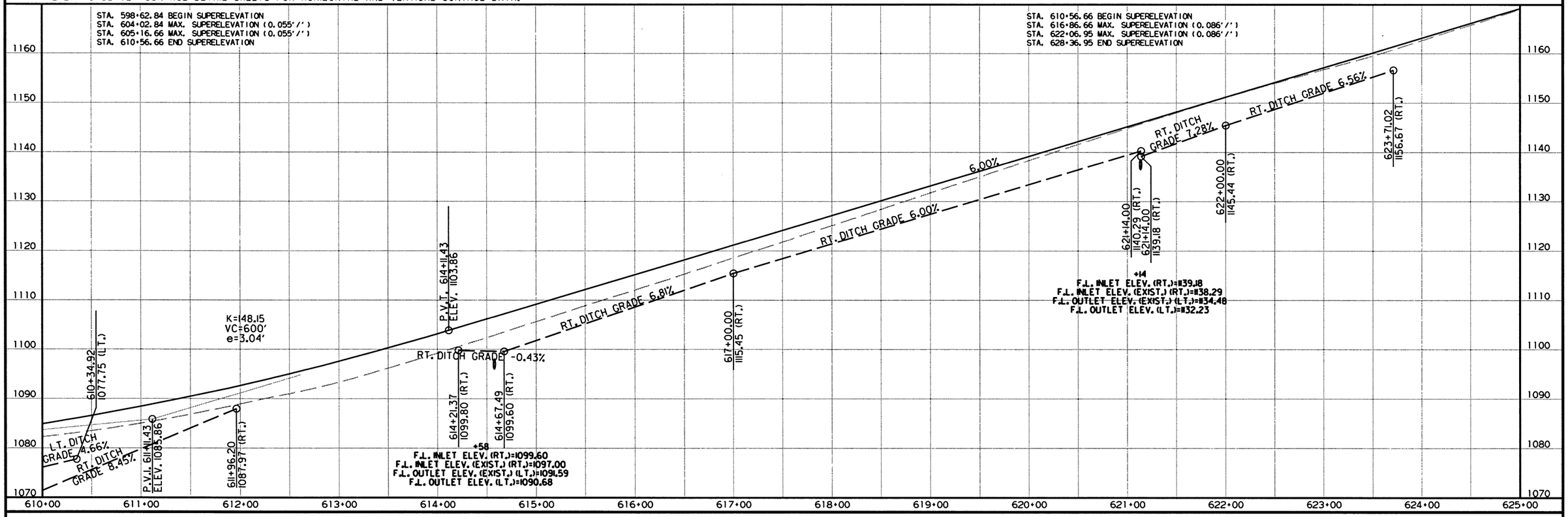
HWY. 65

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	140	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

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



11/13/2018

RCA0801.DGN

HWY. 65

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	141	605

(2) PLAN AND PROFILE SHEETS

STA. 628+84 CONSTRUCT
24" X 136' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 20.1 C.F.S. D.A. = 3.8 ACRES
24" R.C. PIPE CULVERT = 136 LIN. FT.
24" F.E.S. = 2 EACH

STA. 629+12 IN PLACE
24" X 69' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 630+51.00 TO STA. 631+19.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 47.83 SQ. YD.
STA. 631+51.00 TO STA. 631+75.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 16.88 SQ. YD.

HWY. 65
PI = 635+26.68
Δ = 10°15'34"LT.
D = 2°15'00"
T = 228.60'
L = 455.98'
PC = 632+98.08
PT = 637+54.06
e = 0.061'/'
Ls = 540'

STA. 635+08 IN PLACE
24" X 94' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 635+43 CONSTRUCT
24" X 130' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 7.7 C.F.S. D.A. = 2.5 ACRES
24" R.C. PIPE CULVERT = 130 LIN. FT.
24" F.E.S. = 2 EACH

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-13-18

POBI300+00.00
PCI300+47.21
PI302+28.83
POE302+32.29
PT301+07.77
PI352+38.01
PCI352+08.33
PT352+57.56
POE353+12.12
PI635+26.68
PCI350+21.82
POBI350+00.00
PI350+50.62
PT135+70.06
PC632+98.08
PT637+54.06
PROPOSED R/W
EXISTING R/W
CONST. LIMITS
DITCH BLOCK
T.C.E.
N 17°36'36" E
N 17°21'02" E
S 71°38'58" E
S 76°21'02" W
HWY. 65

STA. 628+13.00 TO STA. 640+58.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 875.65 SQ. YD.

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

STA. 610+56.66 BEGIN SUPERELEVATION
STA. 616+86.66 MAX. SUPERELEVATION (0.086'/')
STA. 622+06.95 MAX. SUPERELEVATION (0.086'/')
STA. 628+36.95 END SUPERELEVATION

STA. 628+36.95 BEGIN SUPERELEVATION
STA. 633+76.95 MAX. SUPERELEVATION (0.061'/')
STA. 636+19.06 MAX. SUPERELEVATION (0.061'/')
STA. 641+59.06 END SUPERELEVATION

+84
F.L. INLET ELEV. (RT.)=1186.23
F.L. OUTLET ELEV. (LT.)=1179.45

+13 (EXIST.)
F.L. INLET ELEV. (RT.)=1189.95
F.L. OUTLET ELEV. (LT.)=1188.44

+08 (EXIST.)
F.L. INLET ELEV. (RT.)=1228.65
F.L. OUTLET ELEV. (LT.)=1212.43

+43
F.L. INLET ELEV. (RT.)=1228.71
F.L. OUTLET ELEV. (LT.)=1221.53

628+84.00 1186.23 (RT.)
630+65.00 1198.26 (LT.)
631+75.00 1204.96 (LT.)
635+43.00 1231.90 (RT.)
635+43.00 1228.71 (RT.)
636+38.87 1237.19 (RT.)
639+08.47 P.V.C. ELEV. 1253.68

LT. DITCH GRADE 6.09%
RT. DITCH GRADE 6.83%
6.00%
RT. DITCH GRADE 8.84%
K=160.64
VC=800'
e=-4.98'

1250 1240 1230 1220 1210 1200 1190 1180 1170 1160

625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00 635+00 636+00 637+00 638+00 639+00 640+00

11/13/2018
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				6	ARK.			
				JOB NO.		CA0801	142	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 648+52 INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 60 CU. YD. COMP. EMB.

STA. 651+57 IN PLACE
24" X 81' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
4' LT. & 36' RT.
TO A COMPLETED LENGTH OF 121'
(CLASS MIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 8.7 C.F.S. D.A. = 5.0 ACRES
24" R.C. PIPE CULVERT = 56 LIN. FT.
24" F.E.S. = 2 EACH

STA. 652+15 IN PLACE
18" X 16' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 30' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 40 CU. YD. COMP. EMB.

STA. 654+66 INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 30 CU. YD. COMP. EMB.

STA. 641+02.00 TO STA. 641+60.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 40.79 SQ. YD.

STA. 641+21 IN PLACE
22" X 14" X 40' C.M. ARCH PIPE CULVERT
RT. SIDE DRAIN
REMOVE

STA. 640+80 INSTALL
18" X 44' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.
= 90 CU. YD. UNCL. EXC.

STA. 641+82 INSTALL
18" X 44' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.
= 30 CU. YD. UNCL. EXC.

STA. 644+23 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 80 CU. YD. COMP. EMB.

STA. 642+04.00 TO STA. 644+03.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 139.96 SQ. YD.

STA. 300+00.00 ON HENDERSON ROAD=
STA. 649+95.51 ON HWY. 167
Δ 90°00'00"

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
647+00	649+45	RT.	C	245
650+35	658+15	RT.	C	1030

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

HWY. 65

STA. 628+36.95 BEGIN SUPERELEVATION
STA. 633+76.95 MAX. SUPERELEVATION (0.061'/')
STA. 636+19.06 MAX. SUPERELEVATION (0.061'/')
STA. 641+59.06 END SUPERELEVATION

P.V.I. 643+08.47
ELEV. 1277.68

6.00%

K=160.64
VC=800'
e=-4.98'

P.V.T. 647+08.47
ELEV. 1281.76

650+10.52
1280.31 (LT.)

LT. DITCH GRADE -0.40%

650+30.00
1275.10 (RT.)

1.02%

651+57.00
1279.72 (LT.)

LT. DITCH GRADE 2.47%

RT. DITCH GRADE 2.21%

652+50.00
1282.02 (LT.)

654+85.17
1285.16 (RT.)

+57
F.I. INLET ELEV. (LT.)=1279.72
F.I. INLET ELEV. (EXIST.) (LT.)=1279.56
F.I. OUTLET ELEV. (EXIST.) (RT.)=1279.10
F.I. OUTLET ELEV. (RT.)=1278.96

1310 1300 1290 1280 1270 1260 1250 1240 1230 1220

640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00 652+00 653+00 654+00 655+00

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				6	ARK.			
				JOB NO.		CA0801	143	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
TRINITY D. SMITH
No. 11425
11-13-18

STA. 659+50 CONSTRUCT
TYPE ST DROP INLET 34.5' LT. OF C.L.
WITH 18" X 20' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=2'-3"
TYPE ST DROP INLET = 1 EACH
24" R.C. PIPE (CLASS III(TYPE 3 BEDDING) = 20 LIN. FT.
24" SLPCCS (TYPE 2) = 24 LIN. FT.
24" F.E.S. = 1 EACH

STA. 659+00.00 TO STA. 659+56.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 39.39 SQ. YD.

STA. 660+51 CONSTRUCT
APPROACH ON LT. = 5 CU. YD. UNCLASS. EXC.

STA. 663+18 IN PLACE
18" X 18' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON LT. = 10 CU. YD. UNCLASS. EXC.

STA. 664+50 IN PLACE
22" X 14" X 23' C.M. ARCH PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON LT. = 5 CU. YD. COMP. EMB.

STA. 666+00 CONSTRUCT
TYPE ST DROP INLET 34.5' LT. OF C.L.
WITH 18" X 22' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=2'-8"
TYPE ST DROP INLET = 1 EACH
24" R.C. PIPE (CLASS III(TYPE 3 BEDDING) = 22 LIN. FT.
24" SLPCCS (TYPE 2) = 26 LIN. FT.
24" F.E.S. = 1 EACH

HWY. 65
PI = 667+93.54
Δ = 52°53'35"LT.
D = 4°00'00"
T = 712.50'
L = 1322.33'
PC = 660+81.04
PT = 674+03.37
e = 0.093'/'
Ls = 630'

STA. 400+00.00 ON NATURAL BRIDGE ROAD
STA. 664+86.36 ON HWY. 167
Δ 90°00'00"

STA. 658+32 IN PLACE
22" X 14" X 40' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 45 CU. YD. COMP. EMB.

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
658+43	663+29	RT.	C	486
665+30		RT.	D	230

STA. 663+37 CONSTRUCT
APPROACH ON RT. = 65 CU. YD. COMP. EMB.

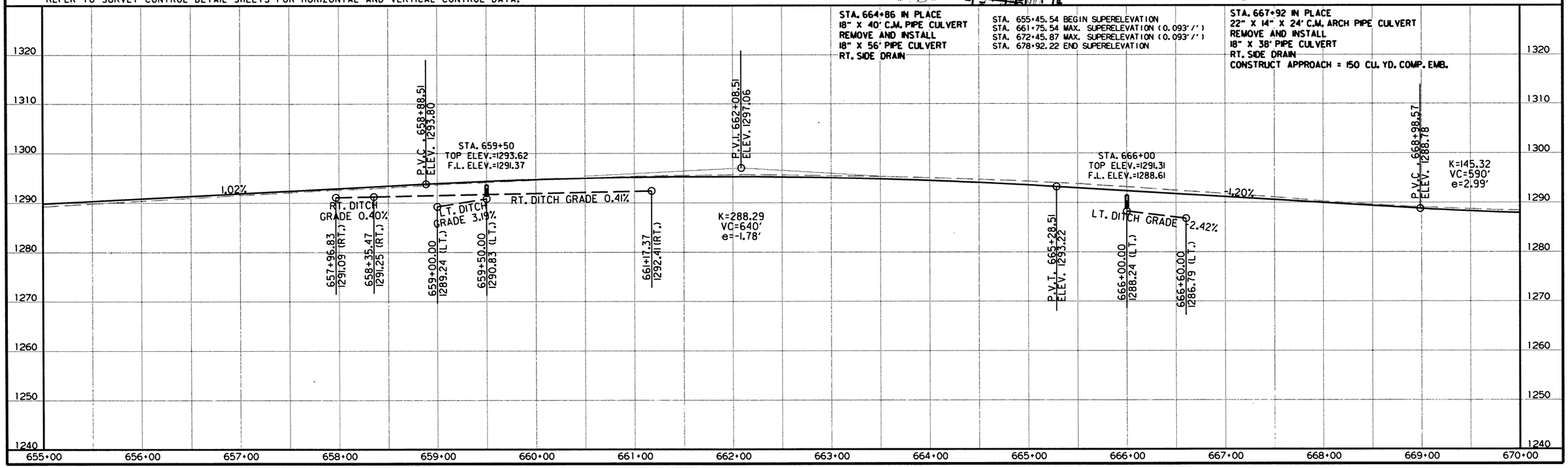
REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

HWY. 65

STA. 664+86 IN PLACE
18" X 40' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 56' PIPE CULVERT
RT. SIDE DRAIN

STA. 655+45.54 BEGIN SUPERELEVATION
STA. 661+75.54 MAX. SUPERELEVATION (0.093'/')
STA. 672+45.87 MAX. SUPERELEVATION (0.093'/')
STA. 678+92.22 END SUPERELEVATION

STA. 667+92 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 38' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 150 CU. YD. COMP. EMB.



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				6	ARK.			
				JOB NO.		CA0801	144	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 667+93.54
Δ = 52°53'35"LT.
D = 4°00'00"
T = 712.50'
L = 1322.33'
PC = 660+81.04
PT = 674+03.37
e = 0.093'/'
Ls = 630'

STA. 670+27 IN PLACE
24" X 111' R.C. PIPE CULVERT
ON 20° RT. FWD. SKEW
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
12' LT. & 42' RT.
TO A COMPLETED LENGTH OF 165'
ADD 24" X 166' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 45.9 C.F.S. D.A. = 19.4 ACRES
24" R.C. PIPE CULVERT = 236 LIN. FT.
24" F.E.S. = 4 EACH

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.	16'-0" GATES	18'-0" GATES
669+00	669+56	RT.	D	56		
673+40	673+66	LT.	D-1	26		
674+10	679+39	LT.	D-1	529		2
681+75	693+25	LT.	D	1150	1	

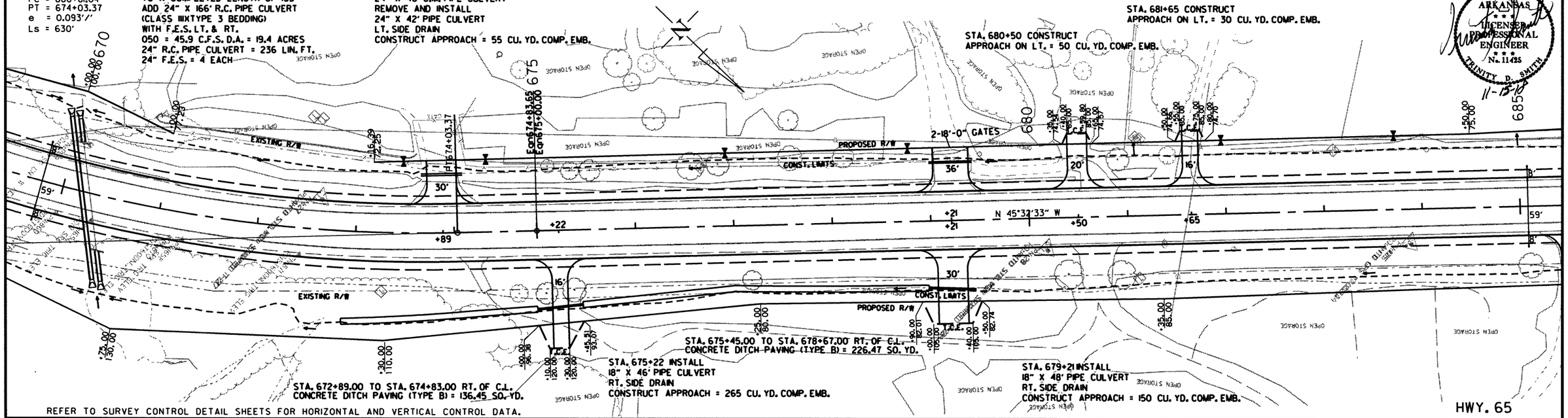
STA. 673+89 IN PLACE
24" X 40' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 42' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 55 CU. YD. COMP. EMB.

STA. 679+21 IN PLACE
18" X 40' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 44' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 50 CU. YD. COMP. EMB.

STA. 680+50 CONSTRUCT
APPROACH ON LT. = 50 CU. YD. COMP. EMB.

STA. 681+65 CONSTRUCT
APPROACH ON LT. = 30 CU. YD. COMP. EMB.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



STA. 672+89.00 TO STA. 674+83.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 136.45 SQ. YD.

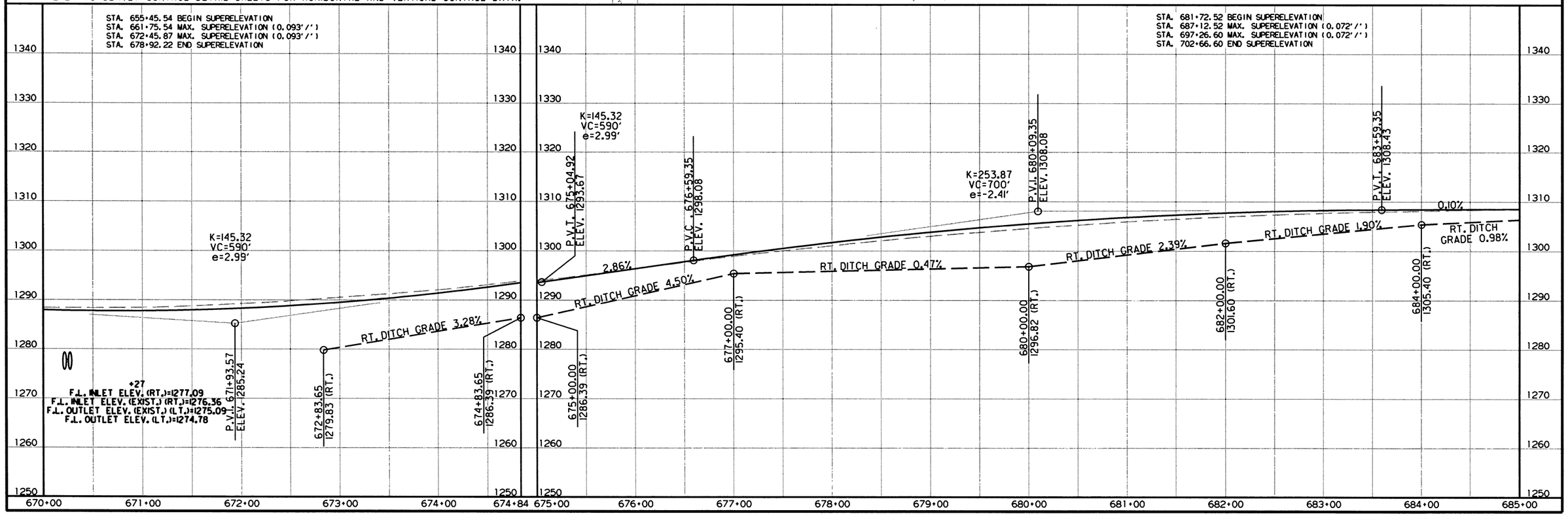
STA. 675+22 INSTALL
18" X 46' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 265 CU. YD. COMP. EMB.

STA. 675+45.00 TO STA. 678+67.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 226.47 SQ. YD.

STA. 679+21 INSTALL
18" X 48' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 150 CU. YD. COMP. EMB.

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

HWY. 65



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				6	ARK.			
				JOB NO.		CA0801	145	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 688+37 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 35 CU. YD. COMP. EMB.

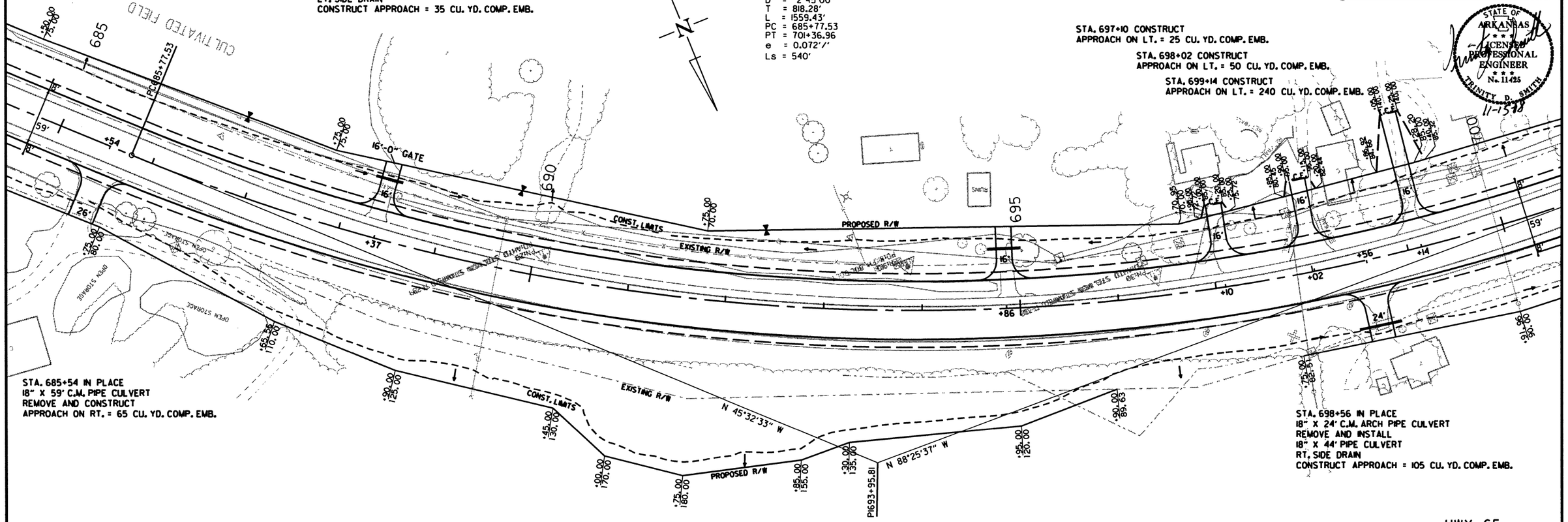
HWY. 65
PI = 693+95.81
Δ = 42°53'04"LT.
D = 2°45'00"
T = 818.28'
L = 1559.43'
PC = 685+77.53
PT = 701+36.96
e = 0.072'/'
Ls = 540'

STA. 694+86 INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 60 CU. YD. COMP. EMB.

STA. 697+10 CONSTRUCT
APPROACH ON LT. = 25 CU. YD. COMP. EMB.

STA. 698+02 CONSTRUCT
APPROACH ON LT. = 50 CU. YD. COMP. EMB.

STA. 699+14 CONSTRUCT
APPROACH ON LT. = 240 CU. YD. COMP. EMB.

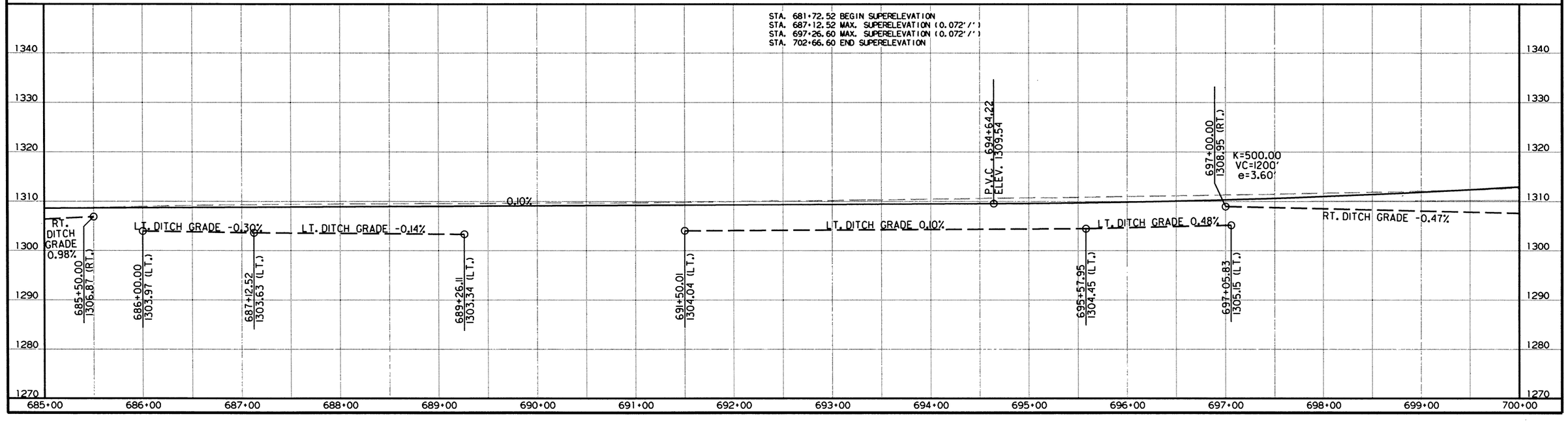


STA. 685+54 IN PLACE
18" X 59' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 65 CU. YD. COMP. EMB.

STA. 698+56 IN PLACE
18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 44' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 105 CU. YD. COMP. EMB.

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

HWY. 65



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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	146	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 701+74 CONSTRUCT APPROACH ON LT. = 150 CU. YD. COMP. EMB.
STA. 702+87 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.

STA. 704+88 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 50 CU. YD. COMP. EMB.

STA. 705+45 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 45 CU. YD. COMP. EMB.

STA. 706+20 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 55 CU. YD. COMP. EMB.

STA. 702+66.00 TO STA. 702+73.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 4.92 SQ. YD.

STA. 703+01.00 TO STA. 704+75.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 122.38 SQ. YD.

STA. 706+93 IN PLACE
24" X 16' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 190 CU. YD. COMP. EMB.

STA. 712+65 CONSTRUCT APPROACH ON LT. = 85 CU. YD. COMP. EMB.

STA. 707+11.00 TO STA. 712+50.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 379.10 SQ. YD.

STA. 707+16 INSTALL
18" X 48' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.

STA. 710+60 IN PLACE
18" X 41' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE

STA. 706+70 IN PLACE
18" X 40' C.M. PIPE CULVERT
RT. SIDE DRAIN
REMOVE

STA. 710+96 INSTALL
18" X 56' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 120 CU. YD. COMP. EMB.

STA. 713+40 IN PLACE
18" X 41' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT TURNOUT = 60 CU. YD. COMP. EMB.

HWY. 65
PI = 693+95.80
Δ = 42°53'04"LT.
D = 2°45'00"
T = 818.28'
L = 1559.44'
PC = 685+77.52
PT = 701+36.96
e = 0.072'/'
Ls = 540'

HWY. 65
PI = 709+33.13
Δ = 50°12'34"RT.
D = 5°00'00"
T = 536.90'
L = 1004.19'
PC = 703+96.23
PT = 714+00.42
e = 0.098'/'
Ls = 630'

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.	16'-0" GATES
705+72	706+70	LT.	4' CHAIN LINK	98	1

STA. 704+85.00 TO STA. 706+91.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 144.89 SQ. YD.

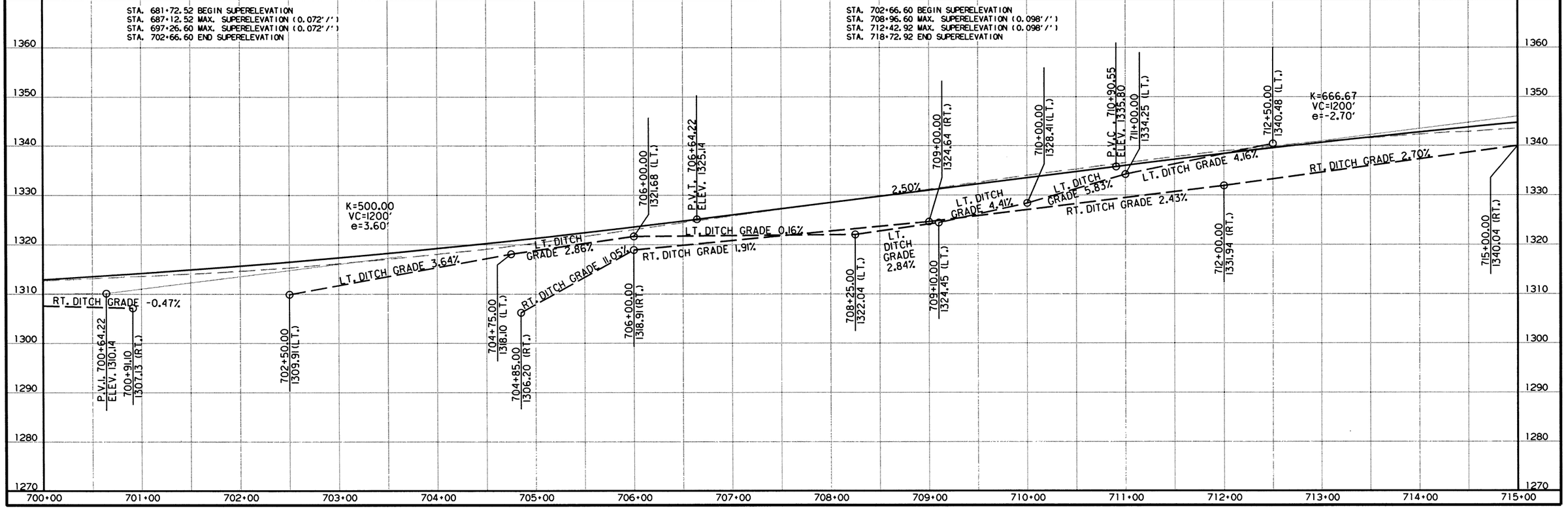
REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

HWY. 65

BIG GUN ROAD

STA. 681+72.52 BEGIN SUPERELEVATION
STA. 687+12.52 MAX. SUPERELEVATION (0.072'/')
STA. 697+26.60 MAX. SUPERELEVATION (0.072'/')
STA. 702+66.60 END SUPERELEVATION

STA. 702+66.60 BEGIN SUPERELEVATION
STA. 708+96.60 MAX. SUPERELEVATION (0.098'/')
STA. 712+42.92 MAX. SUPERELEVATION (0.098'/')
STA. 718+72.92 END SUPERELEVATION



11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
12-12-18				6	ARK.			
				JOB NO.		CA0801	147	605

(2) PLAN AND PROFILE SHEETS

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
715+75	718+80	LT.	D-1	305
720+00	726+36	LT.	D-1	363

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

STA. 719+25 CONSTRUCT APPROACH ON LT. = 45 CU. YD. COMP. EMB.

STA. 726+55 INSTALL 18" X 44' PIPE CULVERT LT. SIDE DRAIN CONST. TUNOUT = 90 CU. YD. COMP. EMB.

STA. 728+76 IN PLACE 15" X 26' C.M. PIPE CULVERT REMOVE

STA. 503+52.90 ON GLENN ROAD= STA. 715+00.00 ON HWY. 167 Δ 90°00'00"

STA. 715+50 INSTALL 18" X 36' PIPE CULVERT RT. SIDE DRAIN CONSTRUCT APPROACH = 50 CU. YD. COMP. EMB.

STA. 718+53.00 TO STA. 720+59.00 RT. OF C.L. CONCRETE DITCH PAVING (TYPE B) = 144.89 SQ. YD.

STA. 723+00 INSTALL 18" X 52' PIPE CULVERT RT. SIDE DRAIN CONSTRUCT APPROACH = 55 CU. YD. COMP. EMB.

STA. 720+84 IN PLACE 18" X 54' C.M. ARCH PIPE CULVERT REMOVE AND INSTALL 18" X 50' PIPE CULVERT RT. SIDE DRAIN CONSTRUCT APPROACH = 60 CU. YD. COMP. EMB.

STA. 724+00 INSTALL 18" X 48' PIPE CULVERT RT. SIDE DRAIN CONSTRUCT APPROACH = 90 CU. YD. COMP. EMB. = 5 CU. YD. UNCL. EXC.

STA. 724+28 IN PLACE 18" X 40' C.M. ARCH PIPE CULVERT REMOVE

STA. 726+70 CONSTRUCT APPROACH ON RT. = 70 CU. YD. COMP. EMB.

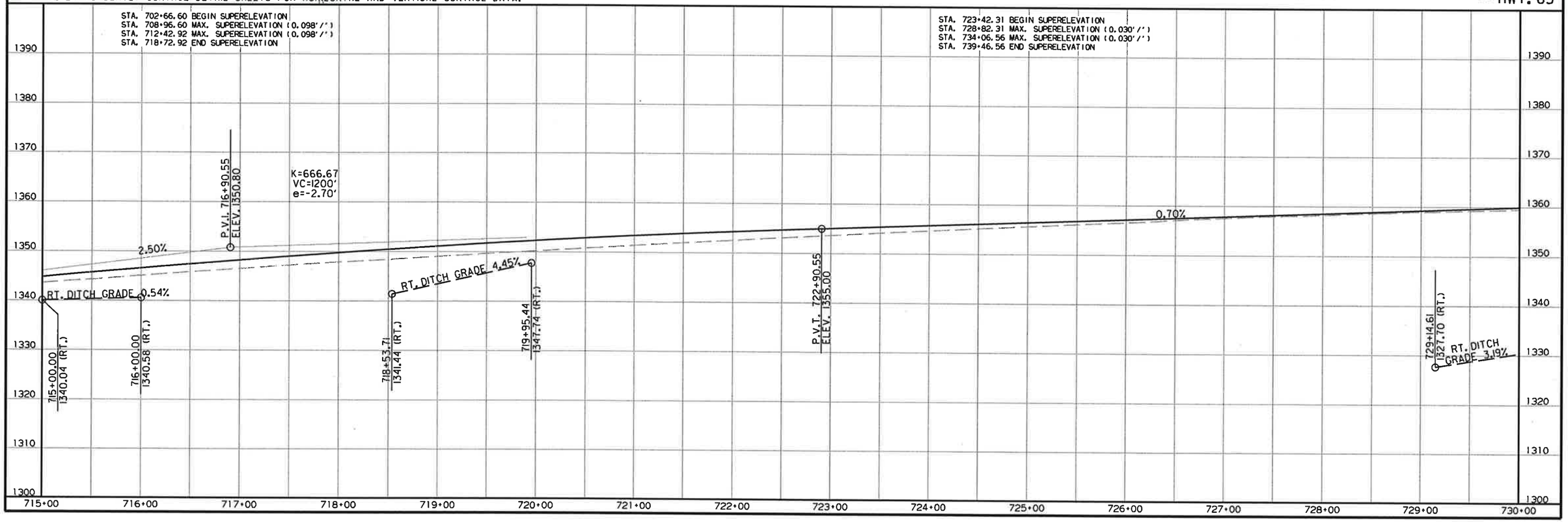
HWY. 65
PI = 731+45.08
Δ = 7°56'33"RT.
D = 1°00'00"
T = 397.76'
L = 794.25'
PC = 727+47.32
PT = 735+41.57
e = 0.030'/'
Ls = 540'

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

HWY. 65

STA. 702+66.60 BEGIN SUPERELEVATION
STA. 708+96.60 MAX. SUPERELEVATION (0.098'/')
STA. 712+42.92 MAX. SUPERELEVATION (0.098'/')
STA. 718+72.92 END SUPERELEVATION

STA. 723+42.31 BEGIN SUPERELEVATION
STA. 728+82.31 MAX. SUPERELEVATION (0.030'/')
STA. 734+06.56 MAX. SUPERELEVATION (0.030'/')
STA. 739+46.56 END SUPERELEVATION



12/7/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
12-12-18				6	ARK.			
				JOB NO.		CA0801	148	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 731+45.08
Δ = 7°56'33"RT.
D = 1°00'00"
T = 397.76'
L = 794.25'
PC = 727+47.32
PT = 735+41.57
e = 0.030'/'
Ls = 540'

STA. 734+70 CONSTRUCT
APPROACH ON LT. = 120 CU. YD. COMP. EMB.

STA. 735+33 IN PLACE
24" X 76' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
28' LT. & 22' RT.
TO A COMPLETED LENGTH OF 126'
ADD 24" X 126' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 25.1 C.F.S. D.A. = 12.1 ACRES
24" R.C. PIPE CULVERT = 192 LIN. FT.
24" F.E.S. = 4 EACH

STA. 735+14.00 TO STA. 736+00.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 60.49 SQ. YD.

STA. 742+56 IN PLACE
24" X 82' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
26' LT. & 22' RT.
TO A COMPLETED LENGTH OF 130'
(CLASS III)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 11.3 C.F.S. D.A. = 4.4 ACRES
24" R.C. PIPE CULVERT = 64 LIN. FT.
24" F.E.S. = 2 EACH

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STA. 732+40.00 TO STA. 735+19.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 196.23 SQ. YD.

FENCE					
STA.	STA.	SIDE	TYPE	LIN. FT.	16'-0" GATES
730+00	733+15	LT.	C	315	
734+10	735+60	RT.	C	200	1

STA. 735+93 CONSTRUCT
TURNOUT ON RT. = 130 CU. YD. COMP. EMB.
STA. 735+93 (FAYETTE ROAD) CONSTRUCT
APPROACH ON RT. = 5 CU. YD. COMP. EMB.
USE 3% SLOPE

STA. 737+00 CONSTRUCT
APPROACH ON RT. = 30 CU. YD. COMP. EMB.

STA. 739+14 CONSTRUCT
APPROACH ON RT. = 60 CU. YD. COMP. EMB.

STA. 741+10 CONSTRUCT
APPROACH ON RT. = 190 CU. YD. COMP. EMB.

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

HWY. 65

STA. 723+42.31 BEGIN SUPERELEVATION
STA. 728+82.31 MAX. SUPERELEVATION (0.030'/')
STA. 734+06.56 MAX. SUPERELEVATION (0.030'/')
STA. 739+46.56 END SUPERELEVATION

STA. 732+13 IN PLACE
24" X 106' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
24' LT. & 36' RT.
TO A COMPLETED LENGTH OF 160'
(CLASS III)(TYPE 3 BEDDING)
ADD 30" X 164' R.C. PIPE CULVERT
(CLASS V)(TYPE 3 BEDDING)
(INSTALL BY METHODS IN THE SP "PIPE CULVERTS")
WITH F.E.S. LT. & RT.
050 = 27.1 C.F.S. D.A. = 15.3 ACRES
24" R.C. PIPE CULVERT = 76 LIN. FT.
30" R.C. PIPE CULVERT = 164 LIN. FT.
24" F.E.S. = 2 EACH
30" F.E.S. = 2 EACH

STA. 744+45 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
28' LT. & 18' RT.
TO A COMPLETED LENGTH OF 129'
(CLASS III)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 9.2 C.F.S. D.A. = 4.1 ACRES
24" R.C. PIPE CULVERT = 62 LIN. FT.
24" F.E.S. = 2 EACH

730+75.00 (LT.) 1354.76
731+10.00 (RT.) 1333.93
732+13.00 (RT.) 1340.01
732+13.00 (LT.) 1354.00
733+00.00 (LT.) 1359.40
733+35.00 (RT.) 1343.31
734+35.00 (RT.) 1351.02
735+33.00 (RT.) 1353.94
735+33.00 (LT.) 1360.32
736+00.00 (LT.) 1360.84
P.V.C. 741+72.75 ELEV. 1368.17
742+56.00 (LT.) 1364.03
743+50.00 (LT.) 1365.68
P.V.I. 743+97.75 ELEV. 1369.75
744+45.00 (LT.) 1367.67
744+72.00 (LT.) 1368.02

K=195.65
VC=450'
e=1.29'

LT. DITCH GRADE -0.55%
LT. DITCH GRADE 6.20%
RT. DITCH GRADE 3.19%
RT. DITCH GRADE 5.90%
RT. DITCH GRADE 2.70%
RT. DITCH GRADE 7.11%
RT. DITCH GRADE 2.98%
LT. DITCH GRADE 0.70%
LT. DITCH GRADE 0.77%
LT. DITCH GRADE 1.75%
LT. DITCH GRADE 1.28%

+13
F.L. INLET ELEV. (LT.)=1354.00
F.L. INLET ELEV. (EXIST.) (LT.)=1352.41
F.L. OUTLET ELEV. (EXIST.) (RT.)=1342.80
F.L. OUTLET ELEV. (RT.)=1340.01

+33
F.L. INLET ELEV. (LT.)=1360.32
F.L. INLET ELEV. (EXIST.) (LT.)=1358.74
F.L. OUTLET ELEV. (EXIST.) (RT.)=1355.31
F.L. OUTLET ELEV. (RT.)=1353.94

+56
F.L. INLET ELEV. (LT.)=1364.03
F.L. INLET ELEV. (EXIST.) (LT.)=1365.53
F.L. OUTLET ELEV. (EXIST.) (RT.)=1358.84
F.L. OUTLET ELEV. (RT.)=1357.45

+45
F.L. INLET ELEV. (LT.)=1367.67
F.L. INLET ELEV. (EXIST.) (LT.)=1365.61
F.L. OUTLET ELEV. (EXIST.) (RT.)=1360.69
F.L. OUTLET ELEV. (RT.)=1359.22

1410 1400 1390 1380 1370 1360 1350 1340 1330 1320

730+00 731+00 732+00 733+00 734+00 735+00 736+00 737+00 738+00 739+00 740+00 741+00 742+00 743+00 744+00 745+00

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12-12-18			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	149	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
TRINITY D. SMITH
No. 11435
12-12-18

STA. 744+43.00 TO STA. 746+80.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 166.69 SQ. YD.

STA. 748+50.00 TO STA. 751+17.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 187.79 SQ. YD.

STA. 751+14.26 CONSTRUCT
TYPE ST DROP INLET 34.5' LT. OF C.L.
WITH 24" X 216' PIPE INLET WITH F.E.S.
AND 24" X 22' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=3'-8"
TYPE ST DROP INLET = 1 EACH
24" R.C. PIPE (CLASS III(TYPE 3 BEDDING) = 238 LIN. FT.
24" SLPCCS (TYPE 2) = 240 LIN. FT.
24" F.E.S. = 2 EACH

STA. 752+04 IN PLACE
24" X 25' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON LT. = 155 CU. YD. UNCL. EXC.

HWY. 65
PI = 758+54.73
Δ = 21°33'42"LT.
D = 1°30'00"
T = 727.32'
L = 1437.44'
PC = 751+27.41
PT = 765+64.85
e = 0.043'/'
Ls = 540'

STA. 759+00 INSTALL
24" X 36' PIPE CULVERT
LT. SIDE DRAIN

STA. 753+39.00 TO STA. 758+82.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 381.91 SQ. YD.

STA. 746+82 IN PLACE
24" X 79' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
28' LT. & 20' RT.
TO A COMPLETED LENGTH OF 126'
ADD 24" X 126' R.D. PIPE CULVERT
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 29.3 C.F.S. D.A. = 13.6 ACRES
24" R.C. PIPE CULVERT = 190 LIN. FT.
24" F.E.S. = 4 EACH

STA. 750+77 IN PLACE
24" X 85' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
28' LT. & 20' RT.
TO A COMPLETED LENGTH OF 133'
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 18.9 C.F.S. D.A. = 8.6 ACRES
24" R.C. PIPE CULVERT = 64 LIN. FT.
24" F.E.S. = 2 EACH

STA. 755+29 IN PLACE
24" X 78' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 758+22 IN PLACE
24" X 74' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

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

RESTRAINING CONDITION

HWY. 65

STA. 755+36 CONSTRUCT
24" X 152' R.C. PIPE CULVERT
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 10.0 C.F.S. D.A. = 4.7 ACRES
24" R.C. PIPE CULVERT = 152 LIN. FT.
24" F.E.S. = 2 EACH

STA. 747+22.41 BEGIN SUPERELEVATION
STA. 752+62.41 MAX. SUPERELEVATION (0.043'/')
STA. 762+71.26 MAX. SUPERELEVATION (0.043'/')
STA. 768+11.26 END SUPERELEVATION

STA. 758+16 CONSTRUCT
24" X 144' R.C. PIPE CULVERT
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 11.7 C.F.S. D.A. = 6.0 ACRES
24" R.C. PIPE CULVERT = 144 LIN. FT.
24" F.E.S. = 2 EACH

K=195.65
VC=450'
e=1.29'
P.V.T. 746+22.75
ELEV. 1376.50
LT. DITCH GRADE 3.10%
746+82.00 1373.71 (LT.)
747+09.00 1374.55 (LT.)
+82
F.L. INLET ELEV. (LT.)=1373.71
F.L. INLET ELEV. (EXIST.) (LT.)=1371.94
F.L. OUTLET ELEV. (EXIST.) (RT.)=1367.96
F.L. OUTLET ELEV. (RT.)=1366.68

STA. 751+14.26
TOP ELEV.=1390.47
F.L. ELEV.=1386.80
3.00%
24"x 216' @ 3.17%
LT. DITCH GRADE 0.50%
750+77.00 1385.29 (LT.)
751+14.26 1385.48 (LT.)
+77
F.L. INLET ELEV. (LT.)=1385.29
F.L. INLET ELEV. (EXIST.) (LT.)=1384.38
F.L. OUTLET ELEV. (EXIST.) (RT.)=1378.79
F.L. OUTLET ELEV. (RT.)=1377.03

LT. DITCH GRADE 5.50%
+29 (EXIST.)
F.L. INLET ELEV. (LT.)=1398.98
F.L. OUTLET ELEV. (RT.)=1396.30
755+36.00 1396.94 (LT.)
+36
F.L. INLET ELEV. (LT.)=1396.94
F.L. OUTLET ELEV. (RT.)=1388.49

P.V.C. 757+47.28
ELEV. 1410.23
K=174.18
VC=950'
e=-6.48'
756+30.12 1402.12 (LT.)
758+16.00 1405.21 (LT.)
LT. DITCH GRADE 4.82%
759+10.42 1409.76 (LT.)
+16
F.L. INLET ELEV. (LT.)=1405.21
F.L. OUTLET ELEV. (RT.)=1399.39

1430 1420 1410 1400 1390 1380 1370 1360 1350 1340

745+00 746+00 747+00 748+00 749+00 750+00 751+00 752+00 753+00 754+00 755+00 756+00 757+00 758+00 759+00 760+00

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12-12-18				6	ARK.			
				JOB NO.		CA0801	150	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 758+54.73
Δ = 21°33'42"LT.
D = 1°30'00"
T = 727.32'
L = 1437.44'
PC = 751+27.41
PT = 765+64.85
e = 0.043'/'
Ls = 540'

STA. 763+70 CONSTRUCT
36" X 140' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 29.5 C.F.S. D.A. = 11.4 ACRES
36" R.C. PIPE CULVERT = 140 LIN. FT.
36" F.E.S. = 2 EACH

STA. 763+80 IN PLACE
24" X 79' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 766+75 CONSTRUCT
TYPE ST DROP INLET 34.5' LT. OF C.L.
AND 18" X 20' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=4'-7"
TYPE ST DROP INLET = 1EACH
18" R.C. PIPE (CLASS IIIXTYPE 3 BEDDING) = 20 LIN. FT.
18" SLPCCS (TYPE 2) = 16 LIN. FT.
18" F.E.S. = 1EACH

STA. 770+90.00 TO STA. 773+66.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 194.12 SQ. YD.

STA. 772+71 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
42' LT. & 8' RT.
TO A COMPLETED LENGTH OF 133'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 21.6 C.F.S. D.A. = 9.3 ACRES
24" R.C. PIPE CULVERT = 66 LIN. FT.
24" F.E.S. = 2 EACH

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

HWY. 65
PI = 774+66.72
Δ = 16°15'06"RT.
D = 2°00'00"
T = 409.04'
L = 812.58'
PC = 770+57.68
PT = 778+70.26
e = 0.055'/'
Ls = 540'

STA. 764+28 CONSTRUCT
APPROACH ON LT. = 25 CU. YD. COMP. EMB.

STA. 770+69 IN PLACE
18" X 27' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 44' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 125 CU. YD. COMP. EMB.

STA. 760+57 CONSTRUCT
APPROACH ON RT. = 320 CU. YD. COMP. EMB.

STA. 762+15 CONSTRUCT
APPROACH ON RT. = 280 CU. YD. COMP. EMB.

STA. 764+84 CONSTRUCT
APPROACH ON RT. = 385 CU. YD. COMP. EMB.

STA. 770+21 IN PLACE
24" X 99' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
34' LT. & 20' RT.
TO A COMPLETED LENGTH OF 153'
(CLASS IIIXTYPE 3 BEDDING)
ADD 36" X 146' R.C. PIPE CULVERT
(CLASS VIXTYPE 3 BEDDING)
(INSTALL BY METHODS IN THE SP "PIPE CULVERTS")
WITH F.E.S. LT. & RT.
050 = 29.1 C.F.S. D.A. = 12.5 ACRES
24" R.C. PIPE CULVERT = 70 LIN. FT.
36" R.C. PIPE CULVERT = 146 LIN. FT.
24" F.E.S. = 2 EACH
36" F.E.S. = 2 EACH

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

HWY. 65

STA. 747+22.41 BEGIN SUPERELEVATION
STA. 752+62.41 MAX. SUPERELEVATION (0.043'/')
STA. 762+71.26 MAX. SUPERELEVATION (0.043'/')
STA. 768+11.26 END SUPERELEVATION

STA. 768+11.26 BEGIN SUPERELEVATION
STA. 773+51.26 MAX. SUPERELEVATION (0.055'/')
STA. 777+35.26 MAX. SUPERELEVATION (0.055'/')
STA. 782+75.26 END SUPERELEVATION

P.V.I. 762+22.28
ELEV. 1424.48

K=174.18
VC=950'
e=-6.48'

762+75.77
1413.47 (LT.)

763+70.00
1410.86 (LT.)

LT. DITCH GRADE -2.77%

+70
F.L. INLET ELEV. (LT.)=1410.86
F.L. OUTLET ELEV. (RT.)=1403.97

+80 (EXIST.)
F.L. INLET ELEV. (LT.)=1411.65
F.L. OUTLET ELEV. (RT.)=1407.59

STA. 766+75
TOP ELEV.=1412.61
F.L. ELEV.=1408.05

P.V.T. 766+97.28
ELEV. 1412.83

766+75.00
1407.74 (LT.)

767+41.23
1407.21(LT.)

LT. DITCH GRADE -0.80%

-2.45%

P.V.C. 768+85.70
ELEV. 1408.20

769+27.77
1403.71(LT.)

LT. DITCH GRADE -3.58%

770+21.00
1400.37 (LT.)

LT. DITCH GRADE 1.16%

+21
F.L. INLET ELEV. (LT.)=1400.37
F.L. INLET ELEV. (EXIST.) (LT.)=1396.90
F.L. OUTLET ELEV. (EXIST.) (RT.)=1384.94
F.L. OUTLET ELEV. (RT.)=1381.81

K=138.73
VC=500'
e=2.25'

P.V.I. 771+35.70
ELEV. 1402.07

772+00.00
1402.44 (LT.)

LT. DITCH GRADE -2.55%

772+71.00
1400.63 (LT.)

LT. DITCH GRADE 3.73%

P.V.T. 773+85.70
ELEV. 1404.94

773+65.42
1404.15 (LT.)

1.15%

+71
F.L. INLET ELEV. (LT.)=1400.63
F.L. INLET ELEV. (EXIST.) (LT.)=1398.09
F.L. OUTLET ELEV. (EXIST.) (RT.)=1390.74
F.L. OUTLET ELEV. (RT.)=1390.10

760+00 761+00 762+00 763+00 764+00 765+00 766+00 767+00 768+00 769+00 770+00 771+00 772+00 773+00 774+00 775+00

1450 1440 1430 1420 1410 1400 1390 1380 1370 1360

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	151	605

(2) PLAN AND PROFILE SHEETS

STA. 775+72 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 60 CU. YD. COMP. EMB.

STA. 777+88 INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 70 CU. YD. COMP. EMB.

STA. 777+46 IN PLACE
18" X 29' C.M. PIPE CULVERT
REMOVE

STA. 782+02 IN PLACE
18" X 30' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 55 CU. YD. COMP. EMB.

STA. 783+91 IN PLACE
24" X 65' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
30' LT. & 26' RT.
TO A COMPLETED LENGTH OF 121'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 9.1 C.F.S. D.A. = 2 ACRES
24" R.C. PIPE CULVERT = 72 LIN. FT.
24" F.E.S. = 2 EACH

STA. 786+90 INSTALL
18" X 38' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 80 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.	16'-0" GATES
782+30	788+18	LT.	D	588	1
856+50	868+00	LT.	C	1150	

HWY. 65
PI = 774+66.72
Δ = 16°15'06"RT.
D = 2°00'00"
T = 409.04'
L = 812.58'
PC = 770+57.68
PT = 778+70.26
e = 0.055'/'
Ls = 540'

STA. 778+94 INSTALL
21" X 15" X 28' ARCH PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 20 CU. YD. COMP. EMB.

STA. 781+18 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 34' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 55 CU. YD. COMP. EMB.

STA. 783+16 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 25 CU. YD. COMP. EMB.

STA. 785+06 CONSTRUCT
APPROACH ON RT. = 60 CU. YD. COMP. EMB.

STA. 786+04 INSTALL
18" X 46' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 115 CU. YD. COMP. EMB.

STA. 788+32 IN PLACE
18" X 28' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 32' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 55 CU. YD. COMP. EMB.

16'-0" GATE
PROPOSED R/W
CONST. LIMITS
EXISTING R/W
N 35°35'06" W

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

HWY. 65

STA. 768+11.26 BEGIN SUPERELEVATION
STA. 773+51.26 MAX. SUPERELEVATION (0.055'/')
STA. 777+35.26 MAX. SUPERELEVATION (0.055'/')
STA. 782+75.26 END SUPERELEVATION

P.V.C. 776+96.40
ELEV. 1408.51

P.V.I. 780+96.40
ELEV. 1413.11

P.V.T. 784+96.40
ELEV. 1408.11

1.15%

-1.25%

K=333.33
VC=800'
e=-2.40'

RT. DITCH GRADE -2.93%

RT. DITCH GRADE 0.50%

783+50.00
1404.33 (RT.)

783+91.00
1403.13 (RT.)

784+91.48
1403.64 (RT.)

RT. DITCH GRADE -4.25%

789+05.00
1398.47 (RT.)

790+00.00
1394.43 (RT.)

+91
F.I. INLET ELEV. (RT.)=1403.13
F.I. INLET ELEV. (EXIST.) (RT.)=1402.91
F.I. OUTLET ELEV. (EXIST.) (LT.)=1402.49
F.I. OUTLET ELEV. (LT.)=1401.63

1450 1440 1430 1420 1410 1400 1390 1380 1370 1360

775+00 776+00 777+00 778+00 779+00 780+00 781+00 782+00 783+00 784+00 785+00 786+00 787+00 788+00 789+00 790+00

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	152	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-16

STA. 793+55 IN PLACE
18" X 31' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 42' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 125 CU. YD. COMP. EMB.

STA. 797+27 IN PLACE
15" X 24' C.M. PIPE CULVERT
REMOVE

STA. 797+76 INSTALL
18" X 42' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 105 CU. YD. COMP. EMB.

STA. 801+00 CONSTRUCT
DBL. 30" X 144' R.C. PIPE CULVERT
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 37.0 C.F.S. D.A. = 11.9 ACRES
30" R.C. PIPE CULVERT = 288 LIN. FT.
30" F.E.S. = 4 EACH

STA. 799+57 INSTALL
18" X 48' PIPE CULVERT
LT. SIDE DRAIN
CONST. TURNOUT = 145 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 801+16 IN PLACE
24" X 77' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 803+48 IN PLACE
24" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 52' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 225 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

HWY. 65
PI = 802+22.36
Δ = 35°16'18"LT.
D = 3°00'00"
T = 607.16'
L = 1175.73'
PC = 796+15.20
PT = 807+90.93
e = 0.077'/'
Ls = 540'

STA. 791+68 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 105 CU. YD. COMP. EMB.

STA. 792+56 IN PLACE
18" X 64' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 58' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 175 CU. YD. COMP. EMB.

STA. 794+44 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
16' LT. & 48' RT.
TO A COMPLETED LENGTH OF 147'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 17.4 C.F.S. D.A. = 7.6 ACRES
24" R.C. PIPE CULVERT = 80 LIN. FT.
24" F.E.S. = 2 EACH

STA. 796+38 INSTALL
18" X 42' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 185 CU. YD. COMP. EMB.

STA. 797+04 INSTALL
18" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 155 CU. YD. COMP. EMB.

WATERGATE ROAD

PROPOSED R/W
CONST. LIMITS
EXISTING R/W

N 35°35'06" W
N 70°51'24" W

PC 796+15.20
POBI 475+00.00
PC1475+54.56
PI1476+08.38
PI1476+36.78
PI1476+92.67
PI1802+22.36

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

HWY. 65

STA. 792+10.20 BEGIN SUPERELEVATION
STA. 797+50.20 MAX. SUPERELEVATION (0.077'/')
STA. 805+69.10 MAX. SUPERELEVATION (0.077'/')
STA. 811+09.10 END SUPERELEVATION

790+00.00 1394.43 (RT.)
793+00.00 1388.35 (LT.)
794+44.00 1386.56 (LT.)
794+44.00 1385.05 (RT.)
795+30.00 1385.01(RT.)
796+50.00 1388.64 (LT.)
797+40.38 P.V.C. ELEV. 1392.56
798+65.16 1385.33 (LT.)
798+90.38 P.V.I. ELEV. 1390.69
800+40.38 P.V.T. ELEV. 1390.77
801+00.00 1383.58 (LT.)
801+67.45 P.V.C. ELEV. 1390.83
804+64.49 1385.64 (LT.)

K=230.47
VC=300'
e=0.49'

K=609.59
VC=700'
e=1.00'

-1.25%
RT. DITCH GRADE -2.11%
LT. DITCH GRADE -1.24%
RT. DITCH GRADE -0.05%
LT. DITCH GRADE 1.01%
LT. DITCH GRADE -1.54%
0.05%
LT. DITCH GRADE -0.75%
LT. DITCH GRADE 0.57%
LT. DITCH GRADE 1.32%

+44
F.L. INLET ELEV. (LT.)=1386.56
F.L. INLET ELEV. (EXIST.) (LT.)=1386.34
F.L. OUTLET ELEV. (EXIST.) (RT.)=1385.57
F.L. OUTLET ELEV. (RT.)=1385.05

+00
F.L. INLET ELEV. (LT.)=1383.58
F.L. OUTLET ELEV. (RT.)=1375.63

+16 (EXIST.)
F.L. INLET ELEV. (LT.)=1385.46
F.L. OUTLET ELEV. (RT.)=1381.48

1430 1420 1410 1400 1390 1380 1370 1360

790+00 791+00 792+00 793+00 794+00 795+00 796+00 797+00 798+00 799+00 800+00 801+00 802+00 803+00 804+00 805+00

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	153	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
* * *
LICENSED PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-13-18

STA. 805+90 IN PLACE
24" X 63' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 806+00 CONSTRUCT
30" X 134' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 15.3 C.F.S. D.A. = 6.8 ACRES
30" R.C. PIPE CULVERT = 134 LIN. FT.
30" F.E.S. = 2 EACH

STA. 815+03 IN PLACE
24" X 79' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
40' LT. & 16' RT.
TO A COMPLETED LENGTH OF 135'
ADD 24" X 136' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 22.6 C.F.S. D.A. = 8.4 ACRES
24" R.C. PIPE CULVERT = 208 LIN. FT.
24" F.E.S. = 4 EACH

STA. 816+48 CONSTRUCT
APPROACH ON LT. = 85 CU. YD. COMP. EMB.

HWY. 65
PI = 816+55.26
Δ = 12°29'22"RT.
D = 2°45'00"
T = 227.98'
L = 454.16'
PC = 814+27.28
PT = 818+81.44
e = 0.072'/'
Ls = 540'

HWY. 65
PI = 802+22.36
Δ = 35°16'18"LT.
D = 3°00'00"
T = 607.16'
L = 1175.73'
PC = 796+15.20
PT = 807+90.93
e = 0.077'/'
Ls = 540'

STA. 810+03.04 IN PLACE
24" X 60' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
52' LT. & 8' RT.
TO A COMPLETED LENGTH OF 120'
(CLASS IVXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 17.0 C.F.S. D.A. = 8.9 ACRES
24" R.C. PIPE CULVERT = 76 LIN. FT.
24" F.E.S. = 2 EACH

STA. 811+85 IN PLACE
18" X 23' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 38' PIPE CULVERT
RT. SIDE DRAIN
CONST. TURNOUT = 75 CU. YD. COMP. EMB.

1440 REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA.

HWY. 65

STA. 792+10.20 BEGIN SUPERELEVATION
STA. 797+50.20 MAX. SUPERELEVATION (0.077'/')
STA. 805+69.10 MAX. SUPERELEVATION (0.077'/')
STA. 811+09.10 END SUPERELEVATION

STA. 811+09.10 BEGIN SUPERELEVATION
STA. 816+49.10 MAX. SUPERELEVATION (0.072'/')
STA. 816+71.71 MAX. SUPERELEVATION (0.072'/')
STA. 822+11.71 END SUPERELEVATION

STA. 817+63 IN PLACE
24" X 86' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
30' LT. & 40' RT.
TO A COMPLETED LENGTH OF 156'
ADD 24" X 156' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 41.7 C.F.S. D.A. = 19.3 ACRES
24" R.C. PIPE CULVERT = 242 LIN. FT.
24" F.E.S. = 4 EACH

K=609.59
VC=700'
e=1.00'

P.V.I. 805+17.45
ELEV. 1391.01

LT. DITCH GRADE 1.32%

LT. DITCH GRADE 2.67%

806+00.00
1387.43 (LT.)
806+00.00
1385.40 (LT.)

807+39.85
1389.13 (LT.)

P.V.T. 808+67.45
ELEV. 1395.21

1.20%

810+03.04
1392.17 (LT.)

810+50.00
1392.87 (LT.)

LT. DITCH GRADE 1.48%

RT. DITCH GRADE 0.80%

810+03.04
1390.44 (RT.)

P.V.C. 811+37.33
ELEV. 1398.45

P.V.I. 812+87.33
ELEV. 1400.25

812+92.89
1392.75 (RT.)

K=240.04
VC=300'
e=-0.47'

P.V.T. 814+37.33
ELEV. 1400.18

-0.05%

LT. DITCH GRADE 0.07%

815+03.00
1396.70 (LT.)

815+50.00
1396.73 (LT.)

P.V.C. 815+65.23
ELEV. 1400.11

K=139.35
VC=425'
e=1.62'

LT. DITCH GRADE -0.02%

LT. DITCH GRADE 1.99%

817+14.60
1397.02 (LT.)

817+63.00
1397.01 (LT.)

P.V.I. 817+77.73
ELEV. 1400.01

819+18.76
1400.11 (LT.)

3.00%

P.V.T. 819+90.23
ELEV. 1406.38

+90 (EXIST.)
F.L. INLET ELEV. (LT.)=1388.88
F.L. OUTLET ELEV. (RT.)=1387.69

+00
F.L. INLET ELEV. (LT.)=1385.40
F.L. OUTLET ELEV. (RT.)=1382.43

+03.04
F.L. INLET ELEV. (LT.)=1392.17
F.L. INLET ELEV. (EXIST.) (LT.)=1391.58
F.L. OUTLET ELEV. (EXIST.) (RT.)=1390.98
F.L. OUTLET ELEV. (RT.)=1390.82

+03
F.L. INLET ELEV. (LT.)=1396.70
F.L. INLET ELEV. (EXIST.) (LT.)=1393.21
F.L. OUTLET ELEV. (EXIST.) (RT.)=1387.18
F.L. OUTLET ELEV. (RT.)=1385.42

+63
F.L. INLET ELEV. (LT.)=1397.01
F.L. INLET ELEV. (EXIST.) (LT.)=1393.88
F.L. OUTLET ELEV. (EXIST.) (RT.)=1384.00
F.L. OUTLET ELEV. (RT.)=1378.72

805+00 806+00 807+00 808+00 809+00 810+00 811+00 812+00 813+00 814+00 815+00 816+00 817+00 818+00 819+00 820+00

1440 1430 1420 1410 1400 1390 1380 1370 1360 1350 1340

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12-12-18			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	154	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

STA. 821+74 CONSTRUCT
APPROACH ON LT. = 180 CU. YD. COMP. EMB.

HWY. 65
PI = 829+39.48
Δ = 38°15'38"LT.
D = 5°00'00"
T = 397.49'
L = 765.21'
PC = 825+41.99
PT = 833+07.20
e = 0.098'/'
Ls = 630'

STA. 834+90 IN PLACE
24" X 61' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
4' LT. & 60' RT.
TO A COMPLETED LENGTH OF 125'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 20.1C.F.S. D.A. = 8.3 ACRES
24" R.C. PIPE CULVERT = 80 LIN. FT.
24" F.E.S. = 2 EACH

STA. 600+00.00 ON DEAD END ROAD=
STA. 832+25.00 ON HWY. 167
Δ 90°00'00"

STA. 821+98 IN PLACE
24" X 83' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 822+10 CONSTRUCT
24" X 140' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 24.8 C.F.S. D.A. = 13.7 ACRES
24" R.C. PIPE CULVERT = 140 LIN. FT.
24" F.E.S. = 2 EACH

STA. 826+75.00 TO STA. 828+00.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 87.92 SQ. YD.

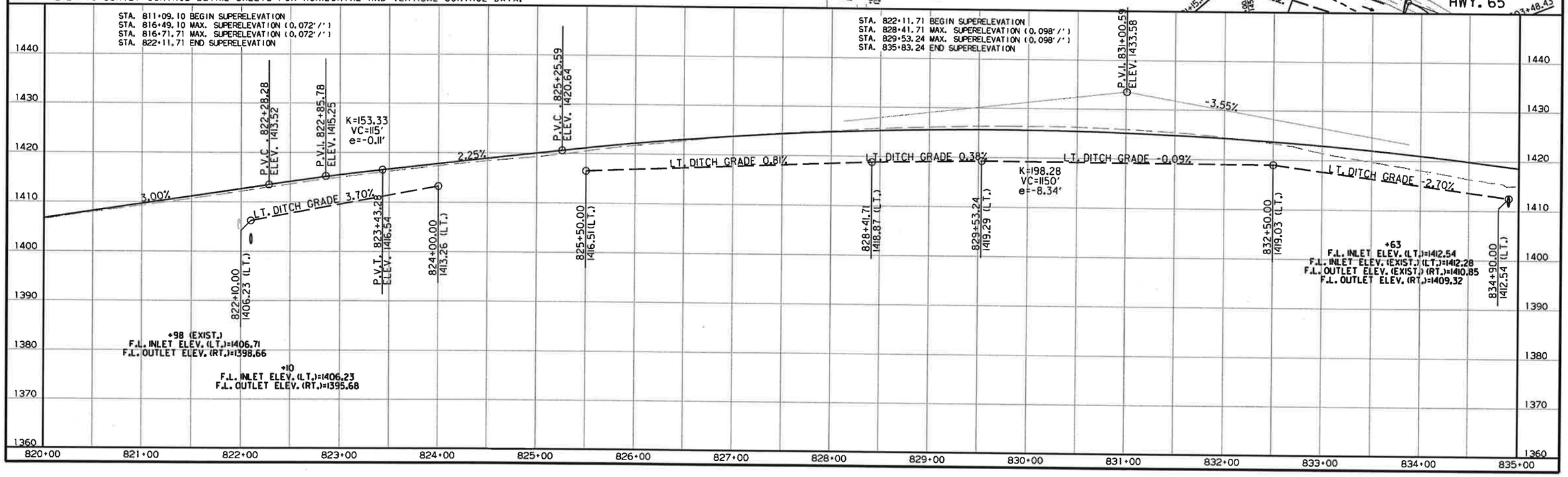
STA. 828+53 CONSTRUCT
APPROACH ON RT. = 160 CU. YD. COMP. EMB.

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

HWY. 65

STA. 811+09.10 BEGIN SUPERELEVATION
STA. 816+49.10 MAX. SUPERELEVATION (0.072'/')
STA. 816+71.71 MAX. SUPERELEVATION (0.072'/')
STA. 822+11.71 END SUPERELEVATION

STA. 822+11.71 BEGIN SUPERELEVATION
STA. 828+41.71 MAX. SUPERELEVATION (0.098'/')
STA. 829+53.24 MAX. SUPERELEVATION (0.098'/')
STA. 835+83.24 END SUPERELEVATION



12/7/2018

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	155	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
* * *
LICENSED PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-15-18

STA. 844+78 IN PLACE
3' X 2' X 96' R.C. BOX CULVERT
WITH 3sl WINGS LT. AND RIGHT
RETAIN AND EXTEND
42' LT.
TO A COMPLETED LENGTH OF 138'
050 = 47.6 C.F.S. D.A. = 18.9 ACRES

STA. 842+25 IN PLACE
24" X 58' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
30' LT. & 30' RT.
TO A COMPLETED LENGTH OF 118'
(CLASS IV)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 2.6 C.F.S. D.A. = 0.7 ACRES
24" R.C. PIPE CULVERT = 76 LIN. FT.
24" F.E.S. = 2 EACH

HWY. 65
PI = 846+22.11
Δ = 67°18'12"RT.
D = 5°00'00"
T = 762.84'
L = 1346.07'
PC = 838+59.27
PT = 852+05.34
e = 0.098'/'
Ls = 630'

STA. 839+35 IN PLACE
4' X 4' X 165' R.C. BOX CULVERT
WITH 3sl WINGS LT. AND RT.
RETAIN AND EXTEND
8' LT. & 42' RT.
CONNECT TO TYPE E JUNCTION BOX ON RT.
JUNCTION BOX 5' X 3' X H = 19'-10"
WITH 4' X 4' X 28' R.C. BOX CULVERT OUTLET
AND 3sl WINGS LT. AND RT.
050 = 118.0 C.F.S. D.A. = 47.6 ACRES

STA. 836+54 IN PLACE
22" X 14" X 34' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 65 CU. YD. COMP. EMB.

STA. 848+50 INSTALL
18" X 48' PIPE CULVERT
LT. SIDE DRAIN

STA. 841+36 CONSTRUCT
APPROACH ON RT. = 60 CU. YD. COMP. EMB.

STA. 844+25 CONSTRUCT
APPROACH ON RT. = 30 CU. YD. COMP. EMB.

STA. 847+54 INSTALL
18" X 34' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 55 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 838+86.00 TO STA. 841+25.00 RT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 168.10 SQ. YD.

STA. 848+26 INSTALL
18" X 42' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 105 CU. YD. COMP. EMB.

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

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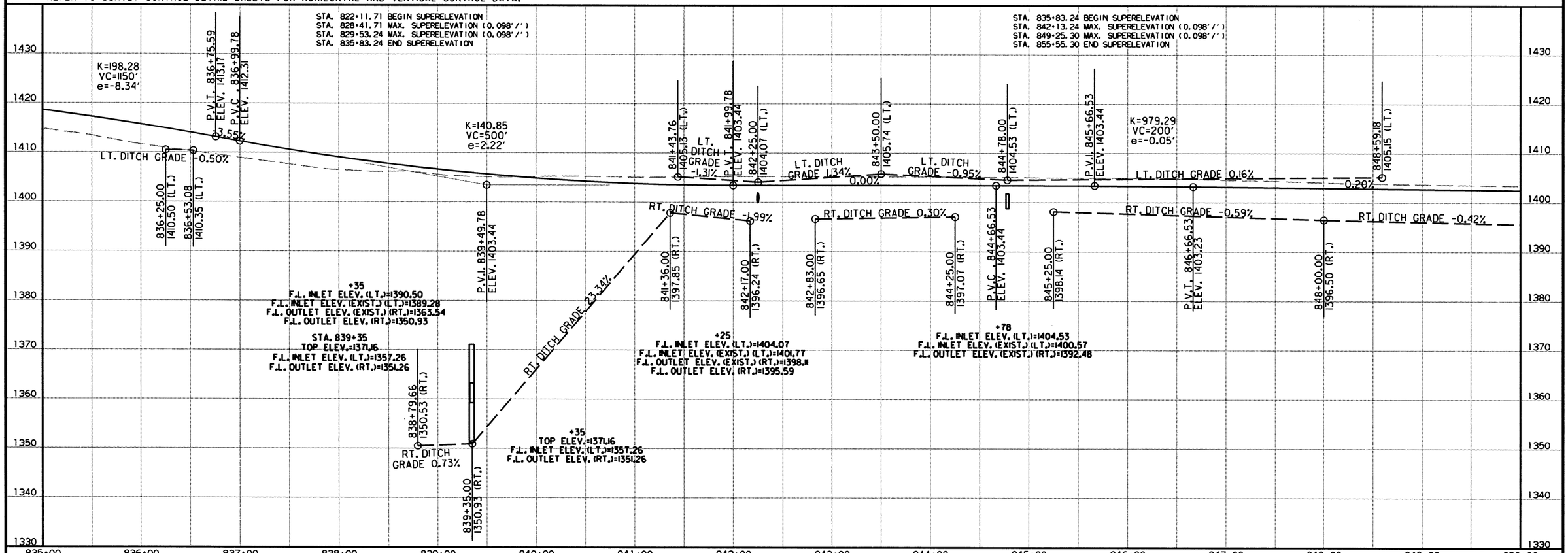
HWY. 65

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	156	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

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



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HWY. 65

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				6	ARK.			
				JOB NO.		CA0801	157	605

(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 846+22.11
Δ = 67°18'12"RT.
D = 5°00'00"
T = 762.84'
L = 1346.07'
PC = 838+59.27
PT = 852+05.34
e = 0.098'/'
Ls = 630'

STA. 852+00 INSTALL
18" X 46' PIPE CULVERT
LT. SIDE DRAIN

STA. 854+56 IN PLACE
12" X 40' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 56' PIPE CULVERT
LT. SIDE DRAIN
CONST. TURNOUT = 235 CU. YD. COMP. EMB.

STA. 855+68 INSTALL
18" X 42' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 120 CU. YD. COMP. EMB.

STA. 854+89 IN PLACE
24" X 59' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

HWY. 65
PI = 861+56.02
Δ = 16°11'27"RT.
D = 3°15'00"
T = 250.76'
L = 498.18'
PC = 859+05.26
PT = 864+03.44
e = 0.082'/'
Ls = 540'

STATE OF ARKANSAS
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STA. 851+90 IN PLACE
DROP INLET ON LT.
WITH 24" X 40' C.M. PIPE INLET
AND 24" X 52' R.C. PIPE OUTLET
REMOVE DROP INLET AND PIPE INLET
AND PLUG AND ABANDON PIPE OUTLET

STA. 851+55 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 65 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

STA. 855+18 CONSTRUCT
DBL. 24" X 140' R.C. PIPE CULVERT
(CLASS MIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 40.9 C.F.S. D.A. = 16.2 ACRES
24" R.C. PIPE CULVERT = 280 LIN. FT.
24" F.E.S. = 4 EACH

STA. 859+60 IN PLACE
24" X 98' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
30' LT. & 30' RT.
TO A COMPLETED LENGTH OF 158'
(CLASS MIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 11.8 C.F.S. D.A. = 6.2 ACRES
24" R.C. PIPE CULVERT = 76 LIN. FT.
24" F.E.S. = 2 EACH

STA. 863+25 INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 35 CU. YD. COMP. EMB.

STA. 863+71 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE

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

HWY. 65

STA. 835+83.24 BEGIN SUPERELEVATION
STA. 842+13.24 MAX. SUPERELEVATION (0.098'/')
STA. 849+25.30 MAX. SUPERELEVATION (0.098'/')
STA. 855+55.30 END SUPERELEVATION

STA. 855+55.30 BEGIN SUPERELEVATION
STA. 860+95.30 MAX. SUPERELEVATION (0.082'/')
STA. 861+87.03 MAX. SUPERELEVATION (0.082'/')
STA. 867+27.03 END SUPERELEVATION

-0.20%
RT. DITCH GRADE -0.42%
LT. DITCH GRADE -2.45%
-0.60%
LT. DITCH GRADE -2.82%
LT. DITCH GRADE 0.54%
1.35%
LT. DITCH GRADE 2.02%

852+21.23
1394.72 (RT.)

853+11.85
1400.20 (LT.)

+89 (EXIST.)
F.L. INLET ELEV. (LT.)=1395.94
F.L. OUTLET ELEV. (RT.)=1395.35

P.V.C. 854+80.71
ELEV. 1401.57

855+18.00
1395.15 (LT.)

+18
F.L. INLET ELEV. (LT.)=1395.15
F.L. OUTLET ELEV. (RT.)=1387.37

K=505.34
VC=200'
e=-0.10'

P.V.I. 855+80.71
ELEV. 1401.36

P.V.T. 856+80.71
ELEV. 1400.76

858+50.00
1394.25 (LT.)

P.V.C. 860+06.02
ELEV. 1398.81

859+60.00
1391.14 (LT.)

+60
F.L. INLET ELEV. (LT.)=1391.14
F.L. INLET ELEV. (EXIST.) (LT.)=1390.11
F.L. OUTLET ELEV. (EXIST.) (RT.)=1385.68
F.L. OUTLET ELEV. (RT.)=1383.93

K=153.85
VC=300'
e=0.73'

P.V.I. 861+56.02
ELEV. 1397.91

P.V.T. 863+06.02
ELEV. 1399.94

863+00.00
1392.99 (LT.)

865+00.00
1397.03 (LT.)

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				JOB NO.		CA0801	158	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

STA. 868+23 IN PLACE
22" X 14" X 20' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 25 CU. YD. COMP. EMB.

STA. 868+80 CONSTRUCT
APPROACH ON LT. = 30 CU. YD. COMP. EMB.

STA. 869+80 INSTALL
18" X 38' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 55 CU. YD. COMP. EMB.

STA. 872+08 IN PLACE
22" X 14" X 40' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 44' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 125 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

STA. 876+75 INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN

STA. 872+30.00 TO STA. 874+00.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 119.57 SQ. YD.

HWY. 65
PI = 873+70.61
Δ = 19°01'19" LT.
D = 3°00'00"
T = 319.98'
L = 634.07'
PC = 870+50.63
PT = 876+84.70
e = 0.077'/'
Ls = 540'

STA. 873+80 IN PLACE
22" X 14" X 30' C.M. ARCH PIPE CULVERT
REMOVE

STA. 876+90.00 TO STA. 882+50.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 393.87 SQ. YD.

STA. 866+62 IN PLACE
5" X 36' PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 30 CU. YD. COMP. EMB.

STA. 870+42 INSTALL
18" X 32' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 45 CU. YD. COMP. EMB.

STA. 871+41 INSTALL
18" X 56' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 95 CU. YD. COMP. EMB.

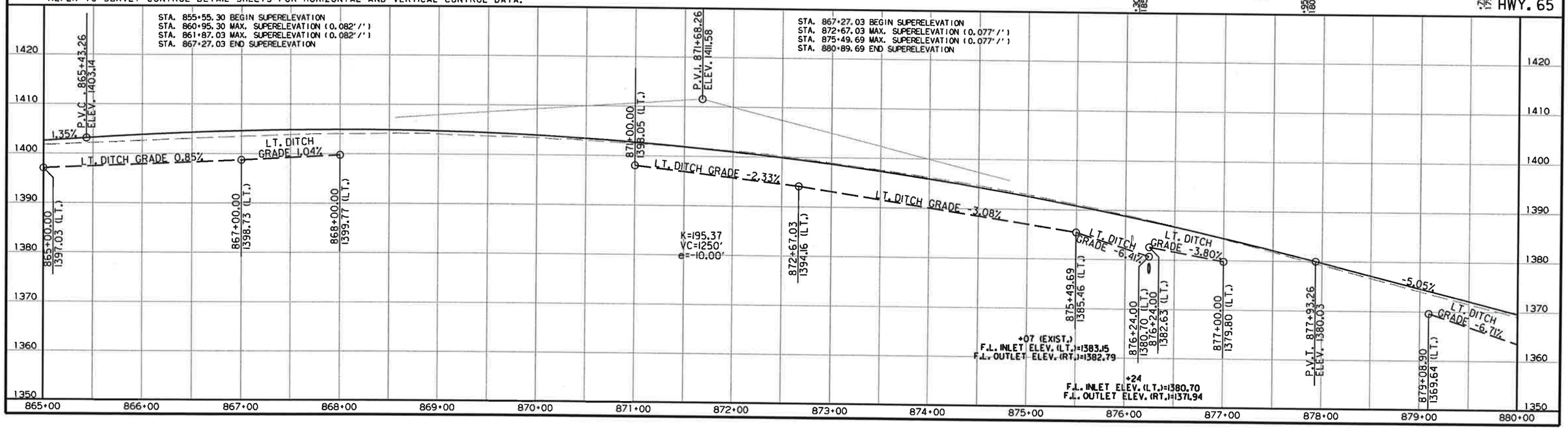
STA. 854+89 IN PLACE
24" X 59' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 876+24 CONSTRUCT
24" X 158' R.C. PIPE CULVERT
(CLASS IV)(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 5.36 C.F.S. D.A. = 2 ACRES
24" R.C. PIPE CULVERT = 158 LIN. FT.
24" F.E.S. = 2 EACH

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

STA. 855+55.30 BEGIN SUPERELEVATION
STA. 860+95.30 MAX. SUPERELEVATION (0.082'/')
STA. 861+87.03 MAX. SUPERELEVATION (0.082'/')
STA. 867+27.03 END SUPERELEVATION

STA. 867+27.03 BEGIN SUPERELEVATION
STA. 872+67.03 MAX. SUPERELEVATION (0.077'/')
STA. 875+49.69 MAX. SUPERELEVATION (0.077'/')
STA. 880+89.69 END SUPERELEVATION



HWY. 65

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(2) PLAN AND PROFILE SHEETS

STA. 880+56 IN PLACE
24" X 78' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 886+85 IN PLACE
24" X 86' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

STA. 886+92 CONSTRUCT
24" X 140' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 11.2 C.F.S. D.A. = 6.1 ACRES
24" R.C. PIPE CULVERT = 140 LIN. FT.
24" F.E.S. = 2 EACH

STA. 891+50 CONSTRUCT
24" X 142' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 9.71 C.F.S. D.A. = 4.6 ACRES
24" R.C. PIPE CULVERT = 142 LIN. FT.
24" F.E.S. = 2 EACH

STA. 892+08.00 TO STA. 895+45.00 LT. OF C.L.
CONCRETE DITCH PAVING (TYPE B) = 237.02 SQ. YD.

STA. 892+00 CONSTRUCT
APPROACH ON LT. = 145 CU. YD. COMP. EMB.
= 95 CU. YD. UNCL. EXC.

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STA. 880+50 CONSTRUCT
24" X 144' R.C. PIPE CULVERT
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 8 C.F.S. D.A. = 2.3 ACRES
24" R.C. PIPE CULVERT = 144 LIN. FT.
24" F.E.S. = 2 EACH

STA. 888+00 CONSTRUCT
APPROACH ON RT. = 275 CU. YD. COMP. EMB.

STA. 891+00 IN PLACE
24" X 67' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
PLUG AND ABANDON

HWY. 65
PI = 892+30.33
Δ = 6°30'02"LT.
D = 1°00'00"
T = 325.38'
L = 650.06'
PC = 889+04.95
PT = 895+55.01
e = 0.030'/'
Ls = 540'

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

STA. 867+27.03 BEGIN SUPERELEVATION
STA. 872+67.03 MAX. SUPERELEVATION (0.077'/')
STA. 875+49.69 MAX. SUPERELEVATION (0.077'/')
STA. 880+89.69 END SUPERELEVATION

STA. 884+99.95 BEGIN SUPERELEVATION
STA. 890+39.95 MAX. SUPERELEVATION (0.030'/')
STA. 894+20.00 MAX. SUPERELEVATION (0.030'/')
STA. 899+60.00 END SUPERELEVATION

880+50.00 (LT.) 1360.18
+56 (EXIST.)
F.L. INLET ELEV. (LT.)=1361.60
F.L. OUTLET ELEV. (RT.)=1349.11
+50
F.L. INLET ELEV. (LT.)=1360.18
F.L. OUTLET ELEV. (RT.)=1352.20

885+00.00 (LT.) 1339.81
+85 (EXIST.)
F.L. INLET ELEV. (LT.)=1329.30
F.L. OUTLET ELEV. (RT.)=1322.96
886+92.00 (LT.) 1327.77
+92
F.L. INLET ELEV. (LT.)=1327.77
F.L. OUTLET ELEV. (RT.)=1320.67

889+50.00 (LT.) 1317.09
+00 (EXIST.)
F.L. INLET ELEV. (LT.)=1308.24
F.L. OUTLET ELEV. (RT.)=1307.44
+50
F.L. INLET ELEV. (LT.)=1304.68
F.L. OUTLET ELEV. (RT.)=1298.00
891+50.00 (LT.) 1304.68

894+92.96 (LT.) 1289.67

LT. DITCH GRADE -6.71%
LT. DITCH GRADE -6.27%
-5.05%
LT. DITCH GRADE -6.20%
LT. DITCH GRADE -5.29%

HWY. 65

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(2) PLAN AND PROFILE SHEETS

HWY. 65
PI = 892+30.33
Δ = 6°30'02"LT.
D = 1°00'00"
T = 325.38'
L = 650.06'
PC = 889+04.95
PT = 895+55.01
e = 0.030'/'
Ls = 540'

STA. 896+36 IN PLACE
24" X 72' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE AND CONSTRUCT
30" X 136' R.C. PIPE CULVERT
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 16.3 C.F.S. D.A. = 7.9 ACRES
30" R.C. PIPE CULVERT = 136 LIN. FT.
30" F.E.S. = 2 EACH

STA. 896+68 CONSTRUCT
APPROACH ON LT. = 40 CU. YD. COMP. EMB.

STA. 898+00 CONSTRUCT
APPROACH ON RT. = 65 CU. YD. COMP. EMB.

STA. 901+20 IN PLACE
18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 30 CU. YD. COMP. EMB.

STA. 902+74 IN PLACE
22" X 14" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 32' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 70 CU. YD. COMP. EMB.

STA. 902+55 CONSTRUCT
APPROACH ON RT. = 30 CU. YD. COMP. EMB.

STA. 904+35 IN PLACE
24" X 92' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
52' LT. & 22' RT.
TO A COMPLETED LENGTH OF 166'
(CLASS III(TYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 19.4 C.F.S. D.A. = 6.8 ACRES
24" R.C. PIPE CULVERT = 90 LIN. FT.
24" F.E.S. = 2 EACH

STA. 907+22 IN PLACE
18" X 58' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 70 CU. YD. COMP. EMB.

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
908+30	910+97	LT.	5' CHAIN LINK	267

STA. 907+84 IN PLACE
18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 25 CU. YD. COMP. EMB.

STA. 908+60 IN PLACE
18" X 58' C.M. PIPE CULVERT
REMOVE AND CONSTRUCT
APPROACH ON RT. = 10 CU. YD. COMP. EMB.

STA. 909+50 CONSTRUCT
APPROACH ON RT. = 10 CU. YD. COMP. EMB.

STATE OF ARKANSAS
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TRINITY D. SMITH
12-12-18

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

HWY. 65

STA. 884+99.95 BEGIN SUPERELEVATION
STA. 890+39.95 MAX. SUPERELEVATION (0.030'/')
STA. 894+20.00 MAX. SUPERELEVATION (0.030'/')
STA. 899+60.00 END SUPERELEVATION

STA. 904+95 CONSTRUCT
TYPE ST DROP INLET 43' RT.
W/ 18" X 298' R.C. PIPE OUTLET (CL. III)
TYPE ST = 4' X 3'
H = 3'-6"

P.V.C. 895+21.64
ELEV. 1292.77

-5.05%

LT. DITCH GRADE -5.29%

896+36.00
1282.10 (LT.)

+36 (EXIST.)
F.L. INLET ELEV. (EXIST.) (LT.)=1280.72
F.L. OUTLET ELEV. (EXIST.) (RT.)=1277.84

+36
F.L. INLET ELEV. (LT.)=1282.10
F.L. OUTLET ELEV. (RT.)=1274.66

K=142.90
VC=800'
e=5.60'

P.V.I. 899+21.64
ELEV. 1272.58

P.V.T. 903+21.64
ELEV. 1274.78

+35
F.L. INLET ELEV. (RT.)=1268.76
F.L. INLET ELEV. (EXIST.) (RT.)=1266.44
F.L. OUTLET ELEV. (EXIST.) (LT.)=1255.55
F.L. OUTLET ELEV. (LT.)=1252.80

0.55%

18" X 298' @ 0.28%

P.V.C. 908+07.23
ELEV. 1277.45

P.V.I. 909+07.23
ELEV. 1278.00

K=1052.63
VC=200'
e=-0.05'

+95
TOP ELEV.=1276.78
F.L. ELEV.=1273.28

1320 1310 1300 1290 1280 1270 1260 1250 1240 1230

895+00 896+00 897+00 898+00 899+00 900+00 901+00 902+00 903+00 904+00 905+00 906+00 907+00 908+00 909+00 910+00

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(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
* * *
LICENSED PROFESSIONAL ENGINEER
* * *
No. 11425
TRINITY D. SMITH
11-15-18

STA. 911+18 INSTALL
18" X 48' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 48 CU. YD. COMP. EMB.

STA. 911+88 INSTALL
18" X 34' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 35 CU. YD. COMP. EMB.

STA. 913+05 CONSTRUCT
APPROACH ON LT. = 25 CU. YD. COMP. EMB.

STA. 700+00.00 ON HWY. 110
STA. 911+10.00 ON HWY. 65
∠ 90°00'00"

910

CONST. LIMITS
PROPOSED R/W
EXISTING R/W
POB700+00.00
POE913+81.33
N 38°39'23" W
N 51°20'37" E
R=100'
R=2'
100' TRANSITION
PC701+73.45
RUINS
FENCE
POWER POLE
TELEPHONE PEDESTAL
TREE

STA. 912+52 IN PLACE
24" X 30' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 30' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 20 CU. YD. COMP. EMB.

STA. 912+34.04
END JOB CA0801

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

HWY. 65

K=1052.63
VC=200'
e=-0.05'
0.36%
P.V.I. 912+34.04
ELEV. 1279.19
P.V.I. 910+07.23
ELEV. 1278.37

1320 1310 1300 1290 1280 1270 1260 1250 1240 1230

910+00 911+00 912+00 913+00 914+00 915+00 916+00 917+00 918+00 919+00 920+00 921+00 922+00 923+00 924+00 925+00

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				6	ARK.			
				JOB NO.		CA0801	162	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
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No. 11425
TRINITY D. SMITH
11-15-18

STA. 102+84.60 ON SKYHILL DRIVE=
STA. 539+10.00 ON HWY. 167
Δ 90°00'00"

STA. 100+14.62
BEGIN SKYHILL DRIVE

SKYHILL DRIVE
PI = 100+94.71
Δ = 15°54'55"RT.
D = 10°00'00"
T = 80.09'
L = 159.15'
PC = 100+14.62
PT = 101+73.77
NO SUPERELEVATION

STA. 101+52 INSTALL
18" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 20 CU. YD. COMP. EMB.

STA. 101+98 IN PLACE
15" X 44' C.M. PIPE CULVERT
REMOVE

APNN605
PO4ST6CONL, TRIG ELEV
APNN554
PO2ST6CONL, TRIG ELEV

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

SKYHILL DRIVE

STA. 100+14.62
BEGIN SKYHILL DRIVE

P.V.I. 100+14.62
ELEV. 838.36

-4.36%

P.V.C. 101+48.24
ELEV. 832.53

K=20.64
VC=90'
e=0.49'

P.V.I. 101+93.24
ELEV. 830.57

P.V.T. 102+38.24
ELEV. 830.57

0.00%

P.V.I. 102+55.11
ELEV. 830.57

870 860 850 840 830 820 810 800 790 780

100+00 101+00 102+00 102+85

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				6	ARK.			
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(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 201+22 INSTALL
18" X 38' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 30 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.
STA. 201+53 IN PLACE
18" X 20' C.M. PIPE CULVERT
LT. SIDE DRAIN
REMOVE

STA. 201+84 IN PLACE
18" X 20' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 38' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 30 CU. YD. COMP. EMB.
= 40 CU. YD. UNCL. EXC.

ISOM LANE
PI = 201+37.55
Δ = 26°33'57"LT.
D = 15°00'00"
T = 90.17'
L = 177.11'
PC = 200+47.38
PT = 202+24.48
NO SUPERELEVATION

STA. 200+00
BEGIN ISOM LANE

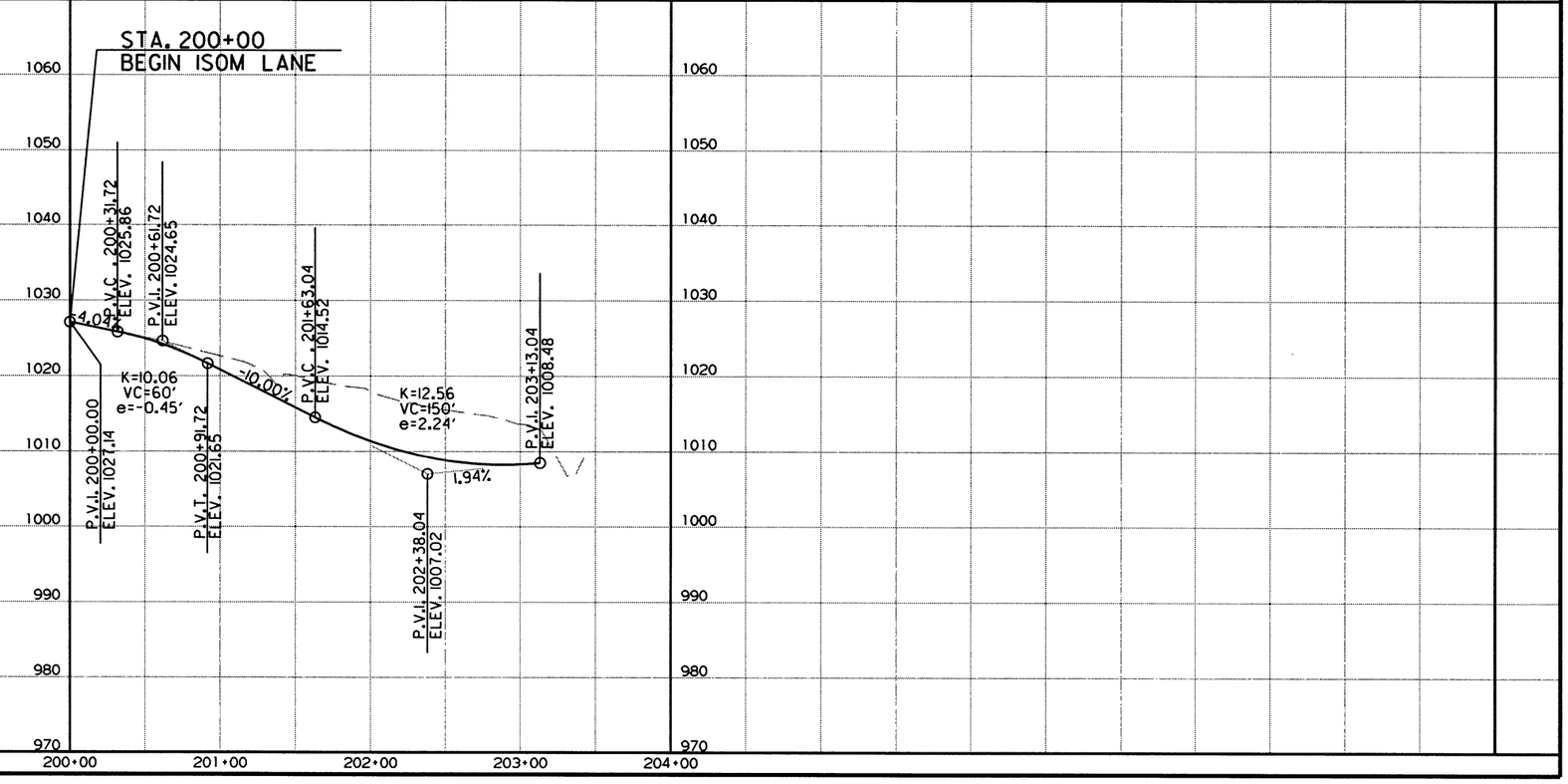
STA. 201+00 IN PLACE
18" X 32' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 20 CU. YD. COMP. EMB.
= 5 CU UNCL. EXC.

STA. 201+53 IN PLACE
18" X 20' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 38' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 30 CU. YD. COMP. EMB.
= 10 CU. YD. UNCL. EXC.

STA. 203+42.54 ON ISOM LANE=
STA. 581+25.00 ON HWY. 167
Δ 90°00'00"

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

ISOM LANE



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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	164	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 301+75 IN PLACE
15" X 30' PIPE CULVERT
REMOVE AND INSTALL
21" X 15" X 34' ARCH PIPE CULVERT

STA. 300+00.00 ON HENDERSON ROAD=
STA. 649+95.51 ON HWY. 167
Δ 90°00'00"

HENDERSON ROAD
PI = 302+78.52
Δ = 4°50'03" LT.
D = 4°00'00"
T = 60.46'
L = 120.85'
PC = 302+18.05
PT = 303+38.91
NO SUPERELEVATION

STA. 303+00 INSTALL
21" X 15" X 28' ARCH PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 10 CU. YD. COMP. EMB.

STA. 303+38.91
END HENDERSON ROAD

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

HENDERSON ROAD

K=7.50
VC=60'
e=-0.60'

K=10.45
VC=110'
e=1.45'

P.V.I. 300+31.38
ELEV. 1284.06

P.V.C. 300+29.50
ELEV. 1284.10

P.V.I. 300+61.38
ELEV. 1283.46

P.V.T. 300+91.38
ELEV. 1280.46

P.V.C. 300+92.31
ELEV. 1280.37

P.V.I. 301+47.31
ELEV. 1274.87

301+37.00
1274.99 (LT.)

301+37.00
1274.12 (RT.)

301+75.00
1273.30 (LT.)

301+75.00
1273.00 (RT.)

P.V.T. 302+02.31
ELEV. 1275.15

302+14.50
1273.35
(RT. & LT.)

P.V.I. 303+63.21
ELEV. 1275.99

LT. DITCH GRADE -4.45%

RT. DITCH GRADE -2.95%

RT. DITCH GRADE 0.89%

LT. DITCH GRADE 0.13%

0.52%

+75
INLET ELEV.=1273.30
OUTLET ELEV.=1273.00

1320 1310 1300 1290 1280 1270 1260 1250 1240 1230

300+00 301+00 302+00 303+00 304+00 305+00

RCA0801.DGN 11/13/2018

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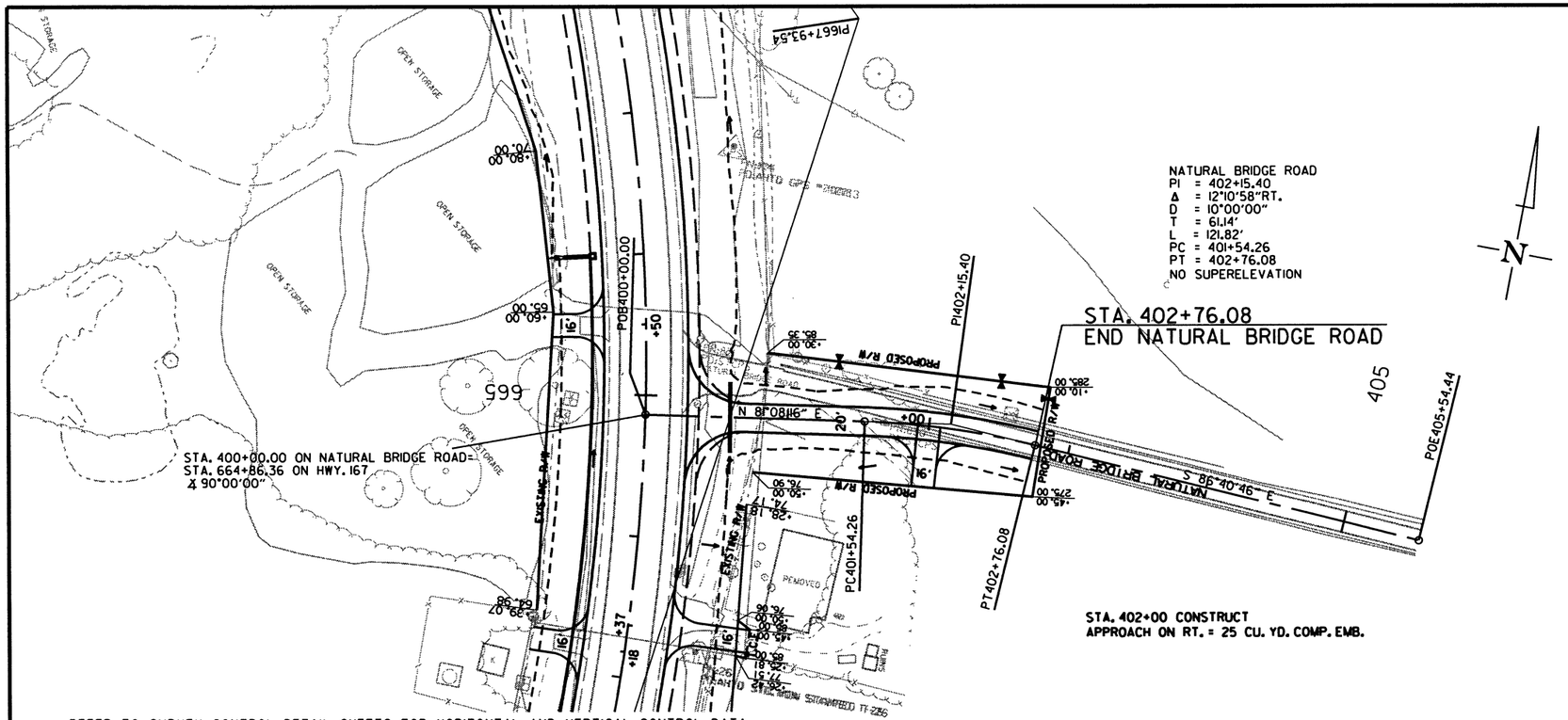
(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



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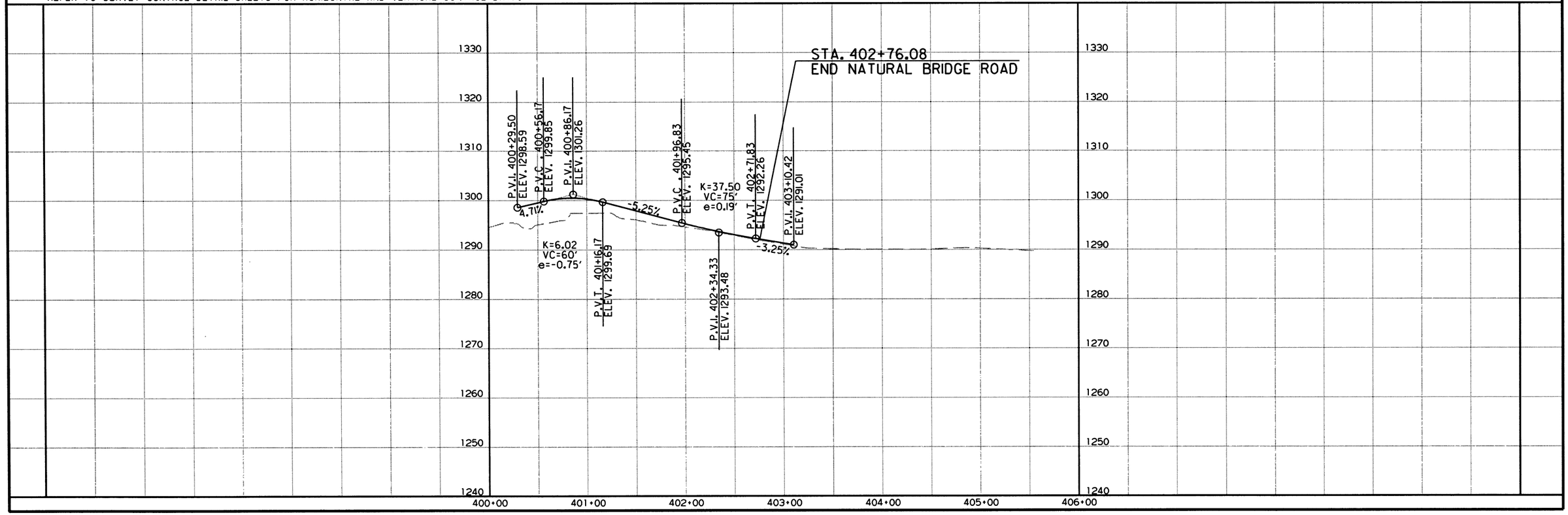
NATURAL BRIDGE ROAD



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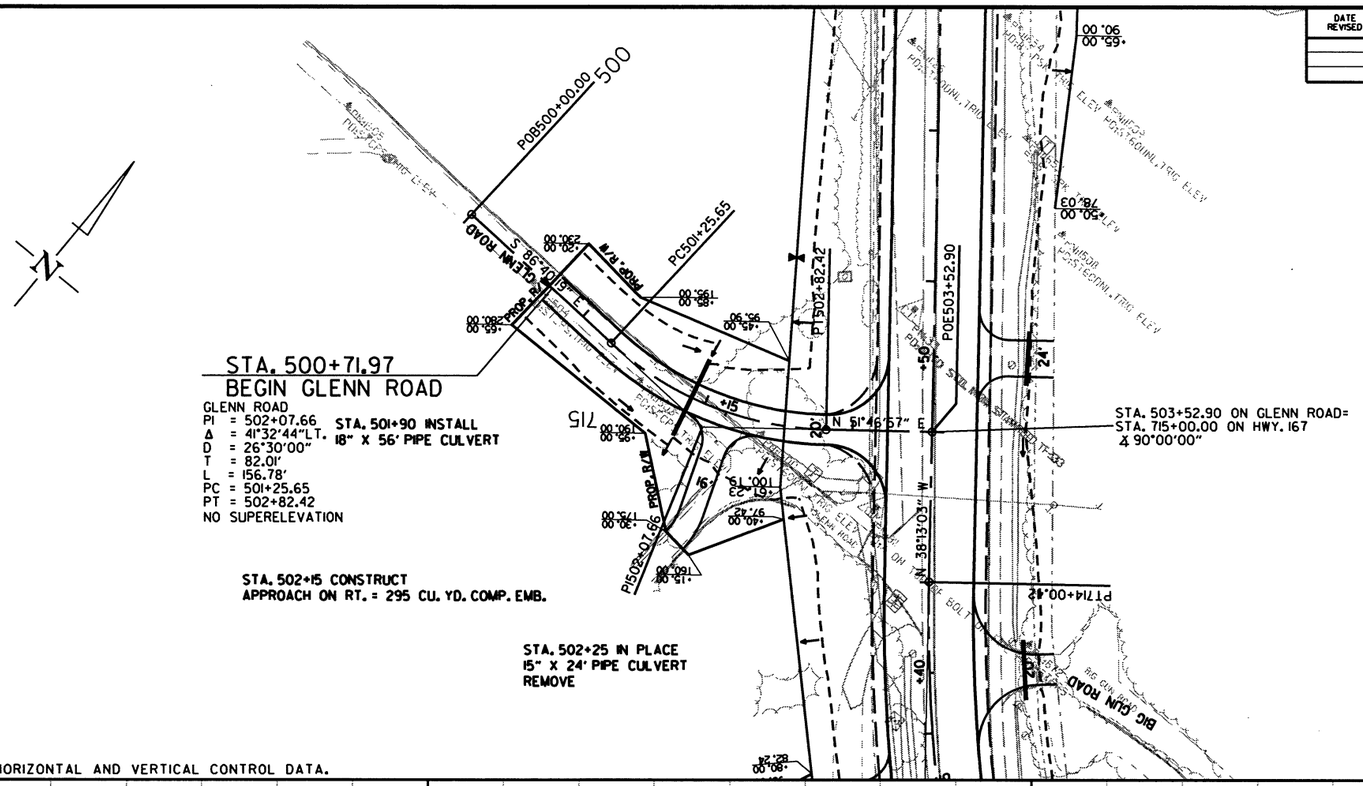
				6	ARK.			
				JOB NO.		CA0801	166	605

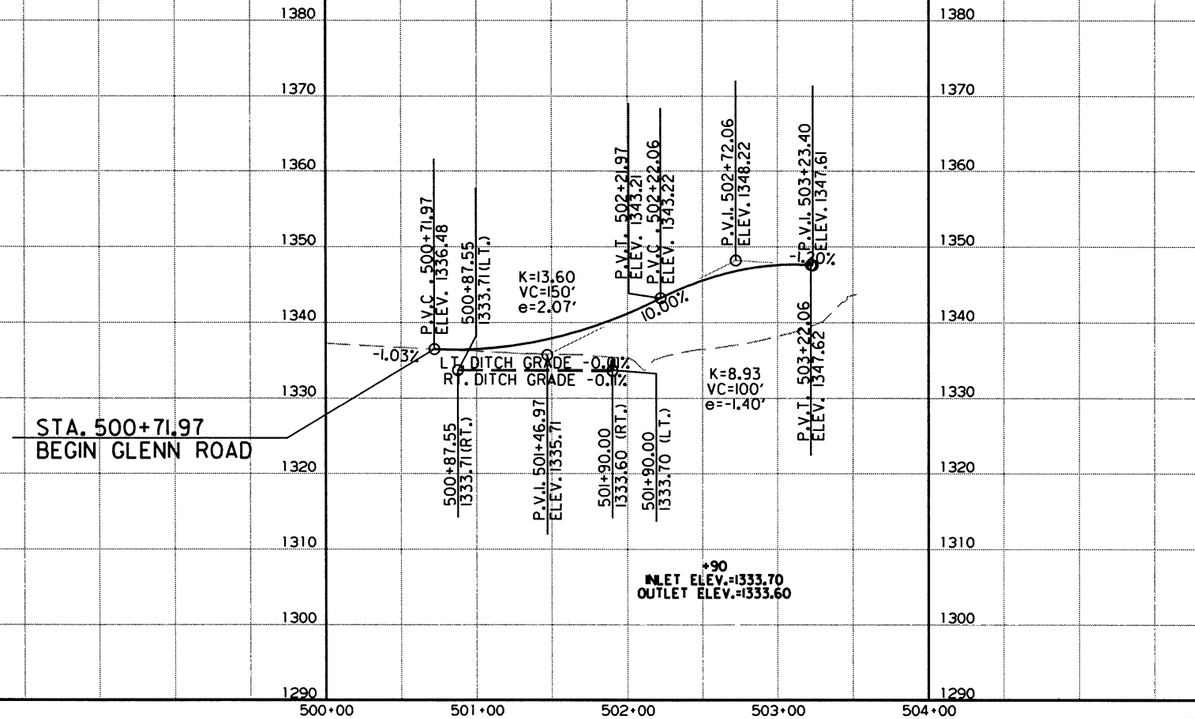
(2) PLAN AND PLOFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

GLENN ROAD



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



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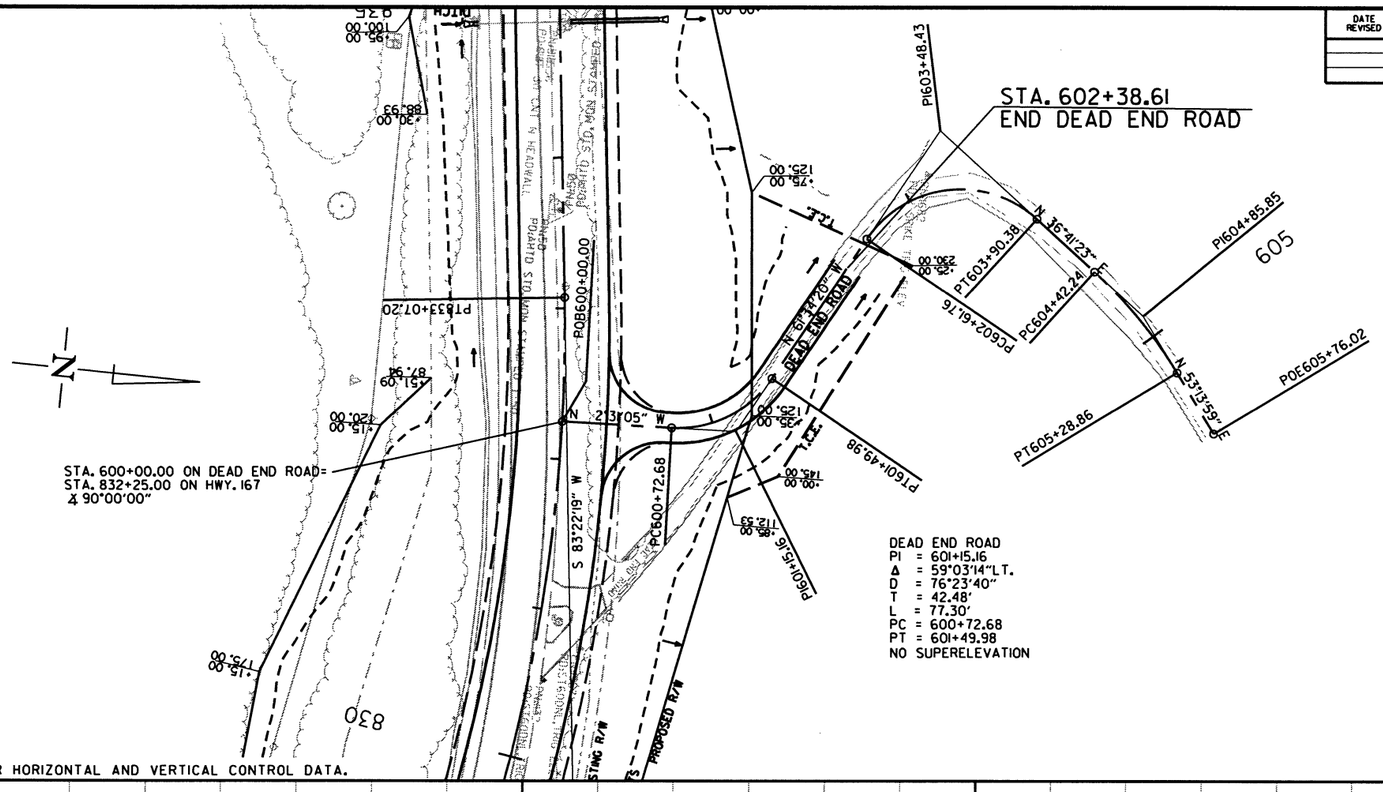
				JOB NO.		CA0801	167	605

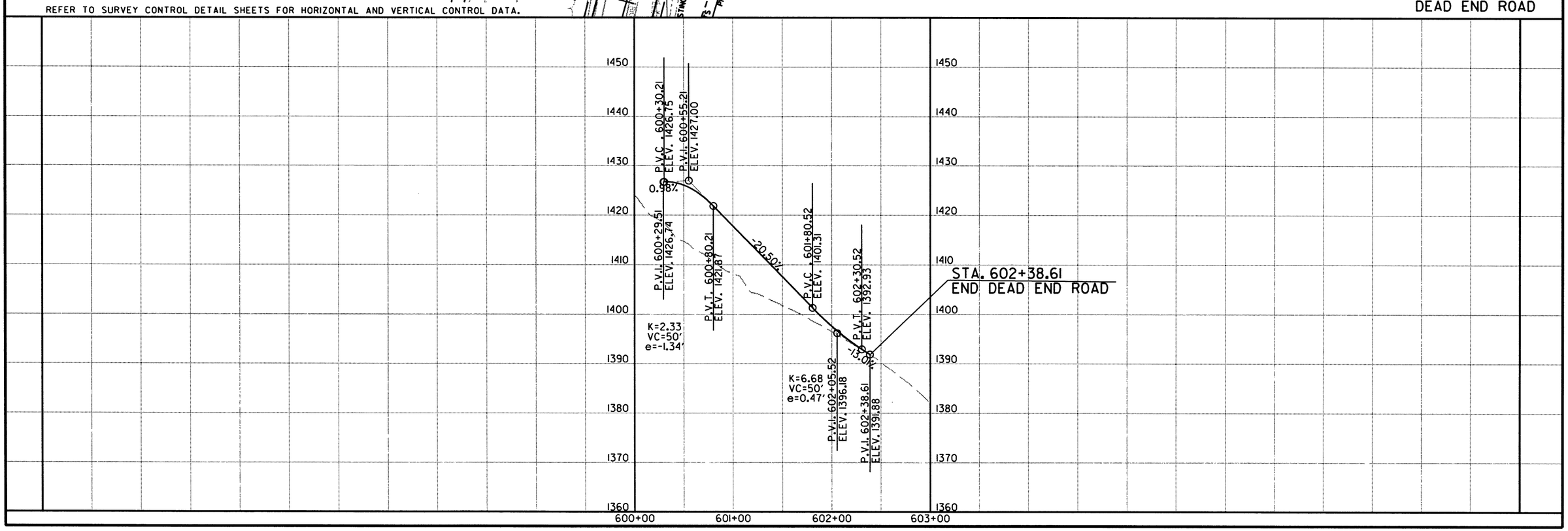
(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



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

DEAD END ROAD



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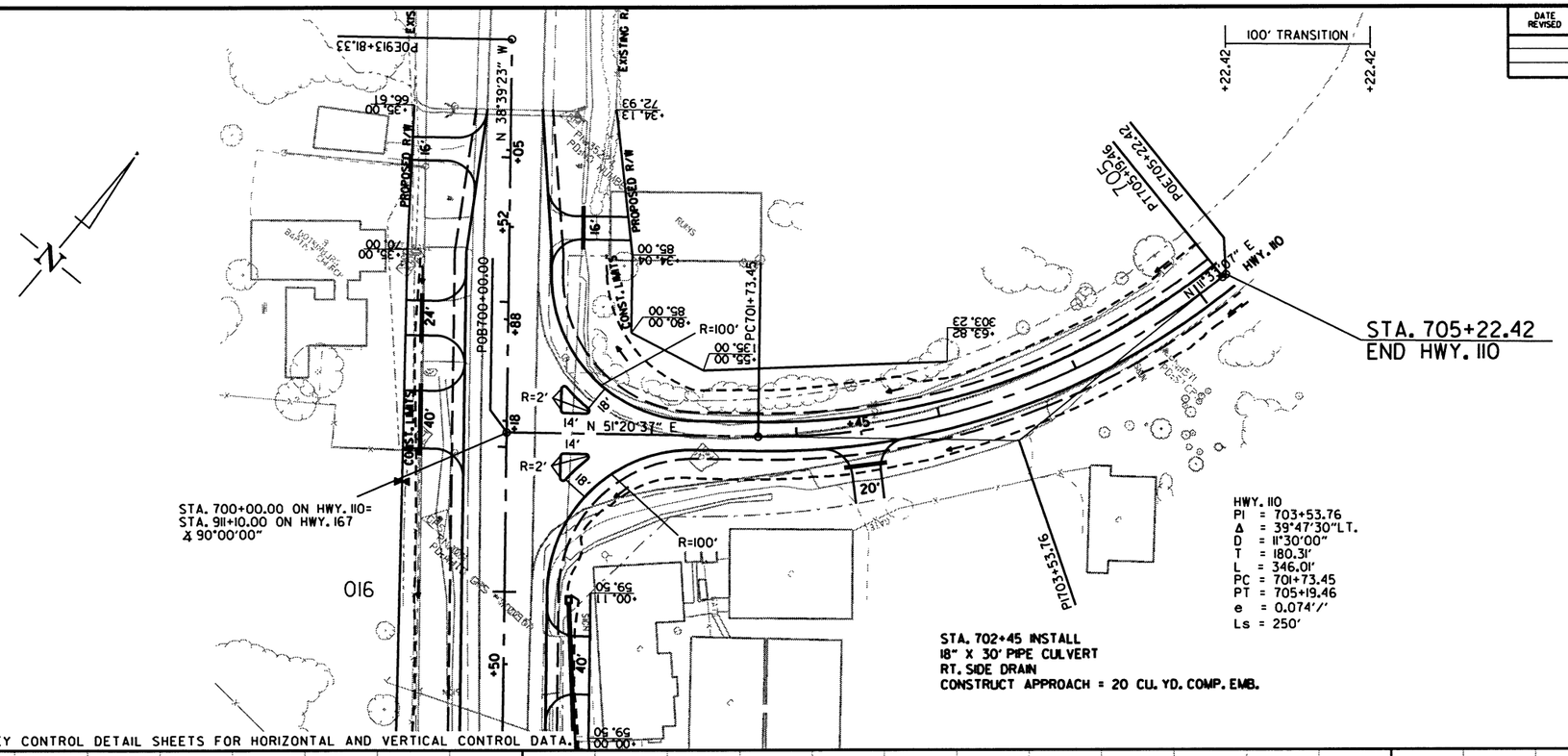
(2) PLAN AND PROFILE SHEETS

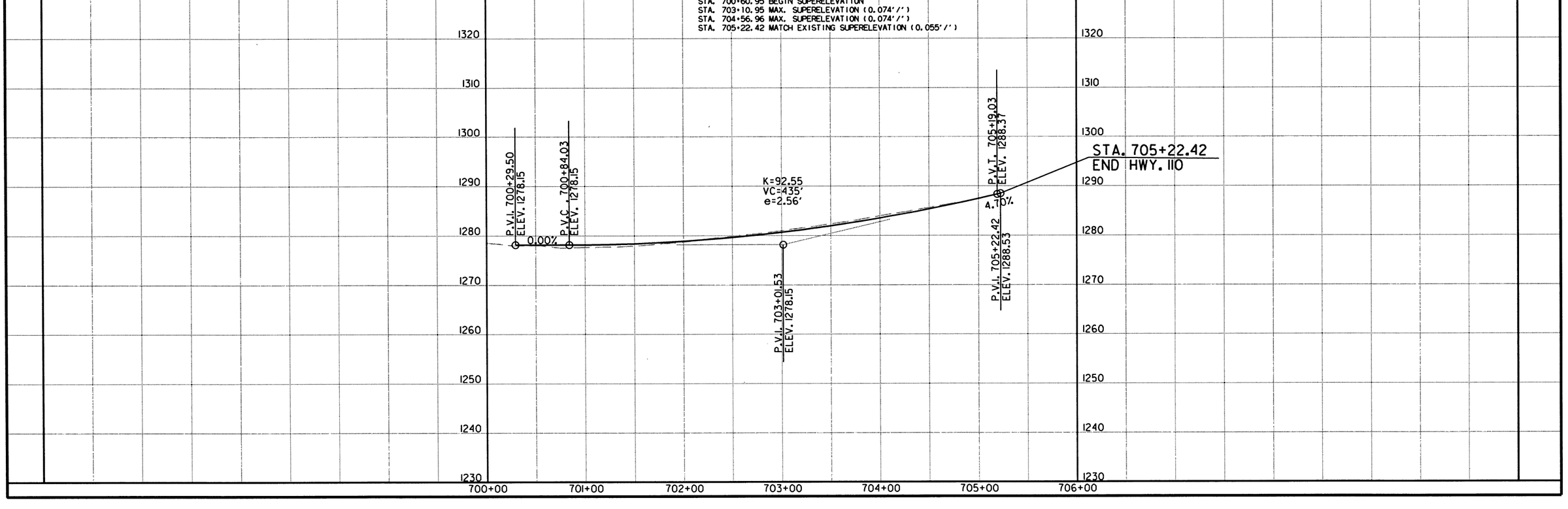
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18



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

HWY. 110

STA. 700+60.95 BEGIN SUPERELEVATION
STA. 703+10.95 MAX. SUPERELEVATION (0.074'/')
STA. 704+56.96 MAX. SUPERELEVATION (0.074'/')
STA. 705+22.42 MATCH EXISTING SUPERELEVATION (0.055'/')



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(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 568+50 IN PLACE
18" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 64' PIPE CULVERT
LT. SIDE DRAIN

STA. 1000+00.00
BEGIN DRIVEWAY 568+50

DRIVEWAY 568+50
PI = 1001+81.19
Δ = 75°05'11"RT.
R = 50'
T = 38.43'
L = 65.53'
PC = 1001+42.76
PT = 1002+08.29
NO SUPERELEVATION

DRIVEWAY 568+50
PI = 1000+51.80
Δ = 80°10'53"LT.
R = 50'
T = 42.09'
L = 69.97'
PC = 1000+09.72
PT = 1000+79.69
NO SUPERELEVATION

POB999+99.57
PC1000+09.72
PT1000+79.69
PI1000+51.80
PI1001+81.19
P.R567+49.74
PC1001+42.76
PT1002+08.29
POE1002+83.3
N 14°22'16" E
N 3°23'12" W
S 86°27'28" E
1000
+06
+50

DRIVEWAY 568+50

STA. 1200+00.00
BEGIN DRIVEWAY 623+00

DRIVEWAY 623+00
PI = 1201+47.89
Δ = 75°02'36"LT.
R = 50'
T = 38.40'
L = 65.49'
PC = 1201+09.49
PT = 1201+74.98
NO SUPERELEVATION

POB1200+00.00
PC1201+09.49
PI1201+47.88
PT1201+74.98
POE1202+35.51
PT623+75.81
S 20°57'56" E
1200
+00

DRIVEWAY 623+00

STA. 1302+32.29
END DRIVEWAY 628+00

DRIVEWAY 628+00
PI = 1300+81.83
Δ = 69°23'59"RT.
R = 50'
T = 34.62'
L = 60.56'
PC = 1300+47.21
PT = 1301+07.77
NO SUPERELEVATION

POB1300+00.00
PC1300+47.21
PT1301+07.77
PI1300+81.83
POE1302+32.29
N 17°36'36" E
S 72°23'24" E
+00

STA. 628+00 INSTALL
18" X 38' PIPE CULVERT
LT. SIDE DRAIN

DRIVEWAY 628+00

STA. 1350+00.00
BEGIN DRIVEWAY 631+35

DRIVEWAY 631+35
PI = 1352+38.01
Δ = 80°35'21"LT.
R = 35'
T = 29.68'
L = 49.23'
PC = 1352+05.33
PT = 1351+57.56
NO SUPERELEVATION

DRIVEWAY 631+35
PI = 1350+50.62
Δ = 79°18'17"RT.
R = 35'
T = 29.01'
L = 48.44'
PC = 1350+21.62
PT = 1350+70.06
NO SUPERELEVATION

STA. 631+35 INSTALL
18" X 32' PIPE CULVERT
LT. SIDE DRAIN

POB1350+00.00
PC1350+21.62
PT1350+70.06
PC1352+08.33
PI1352+38.01
PT1352+57.56
POE1353+12.12
PC632+98.08
S 7°06'21" W
N 99°11'8" W
+35

DRIVEWAY 631+35

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

STA. 1000+00.00
BEGIN DRIVEWAY 568+50

P.V.I. 1000+00.00 ELEV. 965.00
P.V.C. 1000+13.64 ELEV. 963.64
P.V.I. 1000+63.64 ELEV. 958.64
P.V.T. 1001+13.64 ELEV. 951.64
P.V.C. 1001+35.06 ELEV. 948.64
P.V.I. 1001+85.06 ELEV. 941.64
P.V.T. 1002+35.06 ELEV. 940.65
P.V.I. 1002+51.87 ELEV. 940.31
-4.00%
K=25.00 VC=100' e=-0.50'
K=8.32 VC=100' e=1.50'

DRIVEWAY 568+50

STA. 1200+00.00
BEGIN DRIVEWAY 623+00

P.V.I. 1200+00.00 ELEV. 1144.43
P.V.C. 1200+23.61 ELEV. 1144.19
P.V.I. 1200+48.61 ELEV. 1143.94
P.V.T. 1200+73.61 ELEV. 1147.69
P.V.C. 1201+40.60 ELEV. 1157.74
P.V.I. 1201+65.60 ELEV. 1161.49
P.V.T. 1201+90.60 ELEV. 1161.49
P.V.I. 1201+98.01 ELEV. 1161.49
+0.00%
15.00%
K=3.12 VC=50' e=1.00'
K=3.33 VC=50' e=-0.94'

DRIVEWAY 623+00

P.V.I. 1300+37.50 ELEV. 1186.37
P.V.C. 1300+56.53 ELEV. 1186.32
P.V.I. 1300+81.53 ELEV. 1186.25
P.V.T. 1301+06.53 ELEV. 1190.00
P.V.C. 1301+78.27 ELEV. 1200.76
P.V.I. 1302+03.27 ELEV. 1204.51
P.V.T. 1302+28.27 ELEV. 1202.91
P.V.I. 1302+32.29 ELEV. 1202.66
-0.27%
15.00%
K=3.27 VC=50' e=0.95'
K=2.34 VC=50' e=-1.34'

STA. 1302+32.29
END DRIVEWAY 628+00

DRIVEWAY 628+00

P.V.I. 1350+00.00 ELEV. 1193.29
P.V.C. 1350+08.60 ELEV. 1194.49
P.V.I. 1350+33.47 ELEV. 1197.97
P.V.T. 1350+58.56 ELEV. 1198.85
P.V.I. 1352+74.62 ELEV. 1206.41
+4.00%
3.50%
K=4.76 VC=50' e=0.65'

STA. 1350+00.00
BEGIN DRIVEWAY 631+35

DRIVEWAY 631+35

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				6	ARK.			
				JOB NO.		CA0801	170	605

(2) PLAN AND PROFILE SHEETS

STA. 759+00 INSTALL
24" X 36' PIPE CULVERT
LT. SIDE DRAIN

STA. 1400+60.47
BEGIN DRIVEWAY 759+00

DRIVEWAY 759+00
PI = 1402+24.06
Δ = 57°24'35"RT.
R = 50'
T = 27.38'
L = 50.10'
PC = 1401+96.68
PT = 1402+46.78
NO SUPERELEVATION

POBI400+00.00
PCI401+96.68
PI1402+24.06
PTI402+46.78
POEI403+16.34
T.C.E.
DITCH BLOCK
N 51°50'12" W

DRIVEWAY 759+00

STA. 1452+15.75
END DRIVEWAY 768+00

DRIVEWAY 768+00
PI = 1451+27.73
Δ = 88°52'08"RT.
R = 75'
T = 73.53'
L = 116.33'
PC = 1450+54.19
PT = 1451+70.52
NO SUPERELEVATION

PROPOSED R/W
CONST. LIMITS
EXISTING R/W
POBI450+00.00
N 51°50'12" W
PCI450+54.19
PTI451+70.52
PI1451+27.73
POEI452+15.75
S 85°25'48" E
T.C.E.

DRIVEWAY 768+00

STA. 1476+92.67
END DRIVEWAY 799+57

DRIVEWAY 799+58
PI = 1476+08.38
Δ = 94°12'52"RT.
R = 50'
T = 53.82'
L = 82.22'
PC = 1475+54.56
PT = 1476+36.78
NO SUPERELEVATION

POBI475+00.00
PCI475+54.56
PTI476+36.78
PI1476+08.38
POEI476+92.67
EXISTING R/W
CONST. LIMITS
PROPOSED R/W
T.C.E.
WATERLINE

DRIVEWAY 799+57

DRIVEWAY 848+50
PI = 1501+53.26
Δ = 61°35'53"LT.
R = 25'
T = 14.90'
L = 26.88'
PC = 1501+38.36
PT = 1501+65.24
NO SUPERELEVATION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
1-15-18

STA. 1500+00.00
BEGIN DRIVEWAY 848+50

STA. 848+50 INSTALL
18" X 48' PIPE CULVERT
LT. SIDE DRAIN

POBI500+00.00
PCI501+38.36
PI1501+53.26
PTI501+65.24
POEI502+27.97
N 42°24'43" E

DRIVEWAY 848+50

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

STA. 1400+60.47
BEGIN DRIVEWAY 759+00

P.V.I. 1400+60.47
ELEV. 1438.79
-14.00%
P.V.C. 1402+18.16
ELEV. 1416.71
K=3.57
VC=50'
e=0.87'
P.V.T. 1402+68.16
ELEV. 1413.21
+3.00%
P.V.I. 1402+78.84
ELEV. 1413.21
P.V.I. 1402+43.16
ELEV. 1413.21

DRIVEWAY 759+00

STA. 1452+15.75
END DRIVEWAY 768+00

P.V.I. 1450+37.50
ELEV. 1409.62
P.V.I. 1450+70.88
ELEV. 1409.01
P.V.C. 1450+45.88
ELEV. 1409.47
P.V.T. 1450+95.88
ELEV. 1405.51
K=4.11
VC=50'
e=-0.76'
P.V.I. 1451+58.21
ELEV. 1396.79
P.V.C. 1451+08.21
ELEV. 1403.79
-4.00%
K=6.90
VC=100'
e=1.81'
P.V.T. 1452+08.21
ELEV. 1397.04
+2.00%
P.V.I. 1452+15.75
ELEV. 1397.07

DRIVEWAY 768+00

STA. 1476+92.67
END DRIVEWAY 799+57

P.V.I. 1475+37.50
ELEV. 1395.44
+7.20%
P.V.I. 1475+66.80
ELEV. 1397.70
P.V.C. 1475+41.80
ELEV. 1395.77
K=2.30
VC=50'
e=-1.36'
P.V.T. 1475+91.80
ELEV. 1394.20
-14.00%
P.V.C. 1476+41.49
ELEV. 1387.24
K=3.14
VC=50'
e=0.99'
P.V.T. 1476+91.49
ELEV. 1384.72
+2.00%
P.V.I. 1476+66.49
ELEV. 1383.74
P.V.I. 1476+92.67
ELEV. 1384.24

DRIVEWAY 799+57

STA. 1500+00.00
BEGIN DRIVEWAY 848+50

P.V.I. 1500+00.00
ELEV. 1433.65
-15.00%
P.V.C. 1500+93.28
ELEV. 1419.66
K=9.62
VC=50'
e=0.32'
P.V.T. 1501+43.28
ELEV. 1413.46
-9.80%
P.V.I. 1501+18.28
ELEV. 1415.91
P.V.I. 1501+90.49
ELEV. 1408.83

DRIVEWAY 848+50

11/13/2018

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				JOB NO.		CA0801	171	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
11-15-18

STA. 1600+00.00
BEGIN DRIVEWAY 852+00

STA. 852+00 INSTALL
18" X 46' PIPE CULVERT
LT. SIDE DRAIN

DRIVEWAY 852+00
PI = 1601+48.63
Δ = 51°22'49"RT.
R = 50'
T = 24.05'
L = 44.84'
PC = 1601+24.58
PT = 1601+69.41
NO SUPERELEVATION

POB1600+00.00
POB1500+00.00
PC1601+24.58
PI1601+48.63
PT1601+69.41
PT1501+65.24
POE1502+27.97
POE1602+33.99
PC1650+72.34
PT1852+05.84
KIRKENDOLL ROAD
EXISTING R/W
PROPOSED R/W
CONST. LIMITS
N 29°19'29" W
N 8°11'46" W
N 60°40'31" E
N 60°40'09" W
T.S.E.
S.E.E.
16'
20'
855
859
1500

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

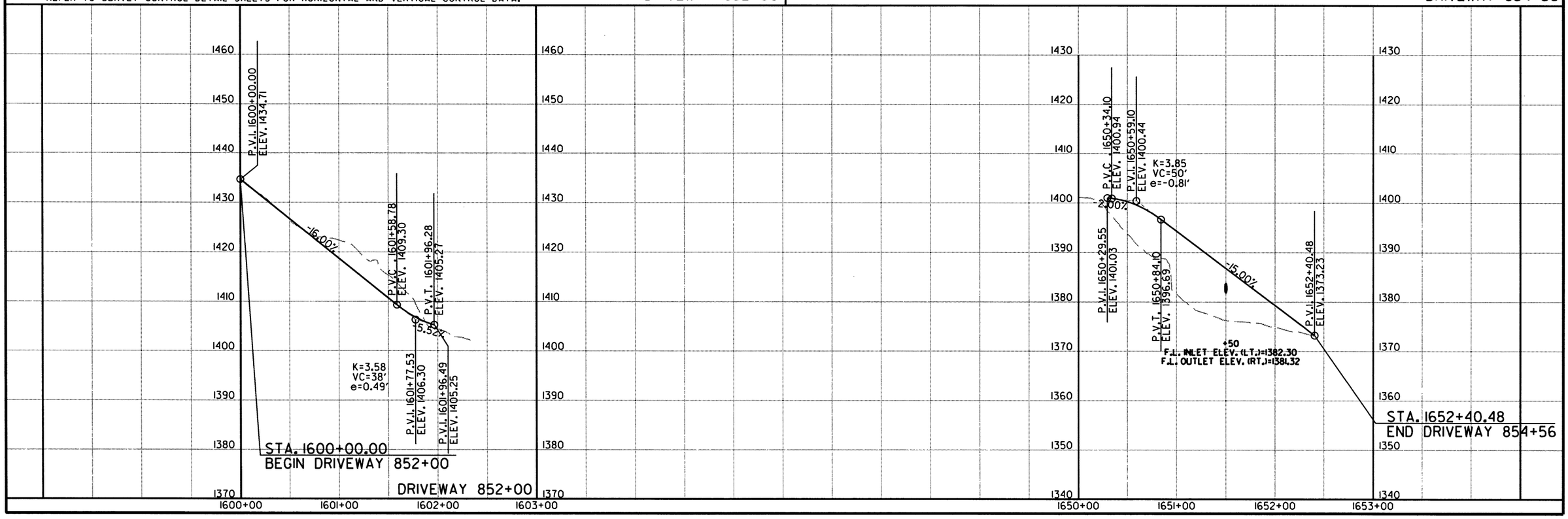
DRIVEWAY 852+00

STA. 1651+50 INSTALL
DBL. 24" X 44' C.M. PIPE CULVERT

STA. 1652+40.48
END DRIVEWAY 854+56

DRIVEWAY 854+56
PI = 1651+06.62
Δ = 68°51'47"LT.
R = 50'
T = 34.28'
L = 60.09'
PC = 1650+72.34
PT = 1651+32.43
NO SUPERELEVATION

DRIVEWAY 854+56



11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
12-12-18				6	ARK.			
				JOB NO.		CA0801	172	605

(2) PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
12-12-18

STA. 876+75 INSTALL
18" X 28' PIPE CULVERT
LT. SIDE DRAIN

DRIVEWAY 876+75
PI = 1702+18.99
Δ = 78°03'58"LT.
R = 50'
T = 40.54'
L = 68.13'
PC = 1701+78.46
PT = 1702+46.58
NO SUPERELEVATION

DRIVEWAY 876+75
PI = 1700+65.19
Δ = 78°21'24"RT.
R = 50'
T = 40.75'
L = 68.38'
PC = 1700+24.44
PT = 1700+92.82
NO SUPERELEVATION

STA. 1700+15.01
BEGIN DRIVEWAY 876+75

N 57°50'39" W

POBI700+00.00

PC870+50.63

PCI701+78.46

PTI700+92.82

PCI700+24.44

PTI702+18.99

PTI702+46.58

PTI700+65.19

POEI703+07.15

N 52°18'05" W

N 32°09'21" W

N 32°09'21" W

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

DITCH BLOCK

870 875 880 885 1700

26' 16' 20' 40'

+50.00 +30.00 +25.00 +30.00 +35.00 +30.00 +20.00 +75.00 +79.14 +205.00 +70.00 +205.00

+80 +42 +41 +08 +75m

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

DRIVEWAY 876+75

STA. 1700+15.01
BEGIN DRIVEWAY 876+75

P.V.I. 1700+15.01
ELEV. 1407.33

-10.50%

P.V.C. 1702+21.45
ELEV. 1385.66

P.V.I. 1702+69.65
ELEV. 1384.56

5.92%

K=2.92
VC=48'
e=0.99'

P.V.I. 1702+45.45
ELEV. 1383.14

P.V.T. 1702+69.45
ELEV. 1384.57

1440 1430 1420 1410 1400 1390 1380 1370 1360 1350

1700+00 1701+00 1702+00 1703+00 1704+00

DRIVEWAY 876+75

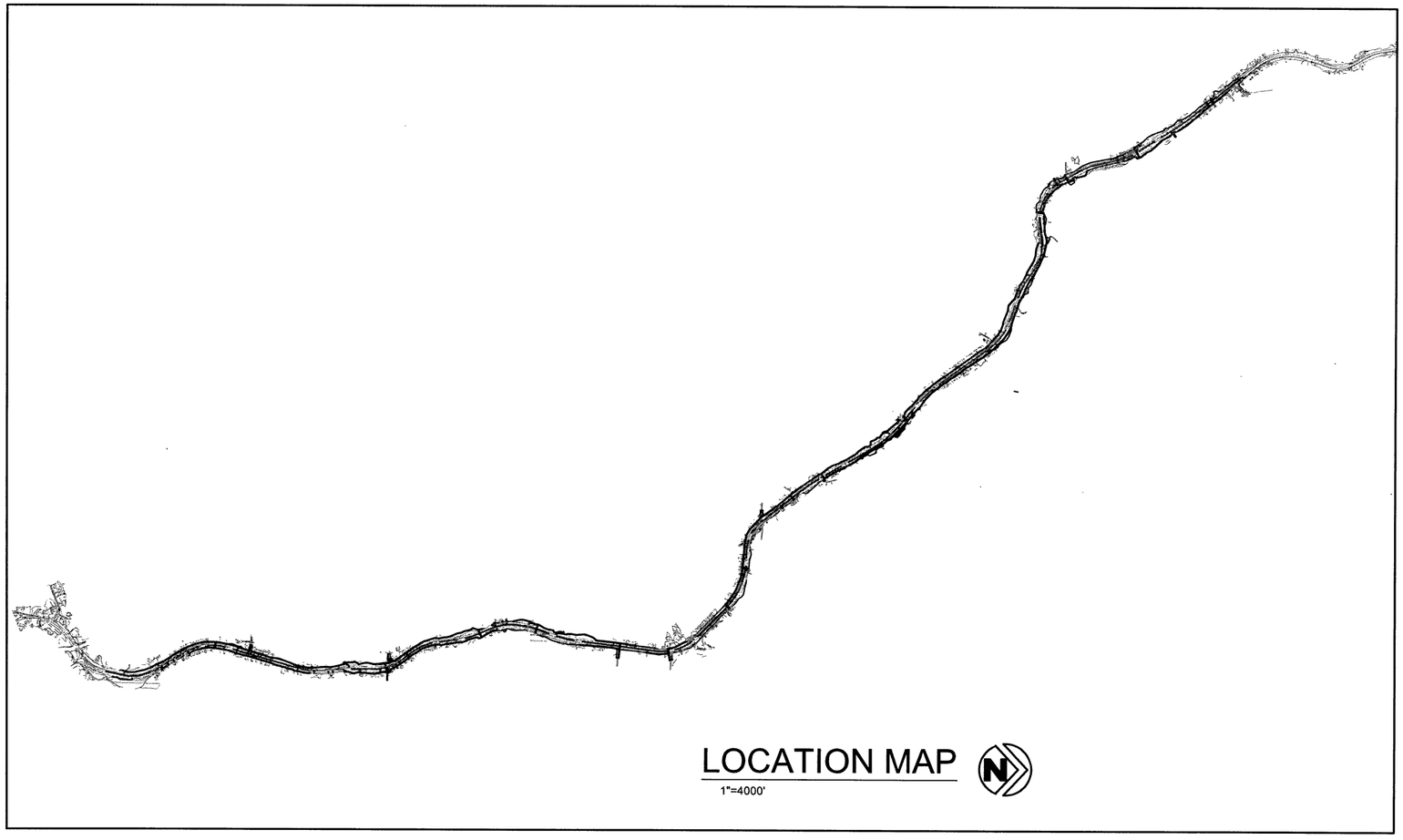
12/7/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	173	605

(2) UTILITY RELOCATION OVERALL INDEX

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS



LOCATION MAP

1"=4000'

SHEET INDEX

SHEET TITLE

UTILITY RELOCATION OVERALL INDEX
UTILITY RELOCATION INDEX
UTILITY RELOCATION INDEX
UTILITY RELOCATION INDEX
UTILITY RELOCATION GENERAL NOTES
UTILITY RELOCATION QUANTITIES
UTILITY RELOCATION STA. 495+00 – 502+00
UTILITY RELOCATION STA. 502+00 – 507+00
UTILITY RELOCATION STA. 507+00 – 514+00
UTILITY RELOCATION STA. 514+00 – 521+00
UTILITY RELOCATION STA. 521+00 – 527+00
UTILITY RELOCATION STA. 527+00 – 534+00
UTILITY RELOCATION STA. 528+58 RIGHT
UTILITY RELOCATION STA. 534+00 – 541+00
UTILITY RELOCATION STA. 541+00 – 548+00
UTILITY RELOCATION STA. 548+00 – 555+00
UTILITY RELOCATION STA. 555+00 – 561+00
UTILITY RELOCATION STA. 561+00 – 568+00
UTILITY RELOCATION STA. 568+00 – 575+00
UTILITY RELOCATION STA. 575+00 – 581+00
UTILITY RELOCATION STA. 581+00 – 585+00
UTILITY RELOCATION STA. 581+25 LEFT
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UTILITY RELOCATION STA. 592+00 – 597+00
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UTILITY RELOCATION STA. 611+00 – 618+00
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UTILITY RELOCATION STA. 630+00 – 636+00
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UTILITY RELOCATION STA. 668+00 – 675+00
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UTILITY RELOCATION STA. 682+00 – 689+00
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UTILITY RELOCATION STA. 882+00 – 889+00
UTILITY RELOCATION STA. 889+00 – 895+00
UTILITY RELOCATION STA. 895+00 – 902+00
UTILITY RELOCATION STA. 902+00 – 906+00
UTILITY RELOCATION STA. 906+00 – 913+00
UTILITY RELOCATION SANITARY SEWER PROFILE (1 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (2 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (3 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (4 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (5 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (6 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (7 OF 8)
UTILITY RELOCATION SANITARY SEWER PROFILE (8 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (1 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (2 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (3 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (4 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (5 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (6 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (7 OF 8)
UTILITY RELOCATION WATER HWY CROSSING (8 OF 8)
UTILITY DETAIL (1 OF 7)
UTILITY DETAIL (2 OF 7)
UTILITY DETAIL (3 OF 7)
UTILITY DETAIL (4 OF 7)
UTILITY DETAIL (5 OF 7)
UTILITY DETAIL (6 OF 7)
UTILITY DETAIL (7 OF 7)

UTILITY RELOCATION OVERALL INDEX

11/9/2018 11:02:45 AM

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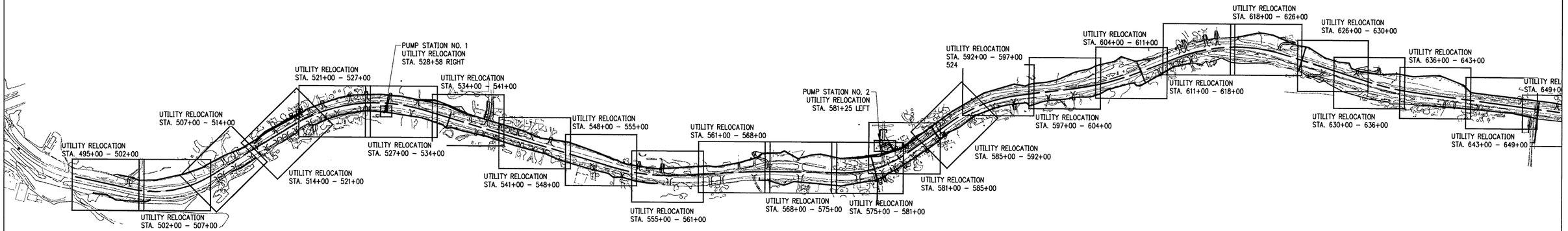
				6	ARK.			
				JOB NO.		CA0801	174	605
				(2)	UTILITY RELOCATION INDEX			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-7-18



UTILITY RELOCATION INDEX
STA 495+00 - 649+00

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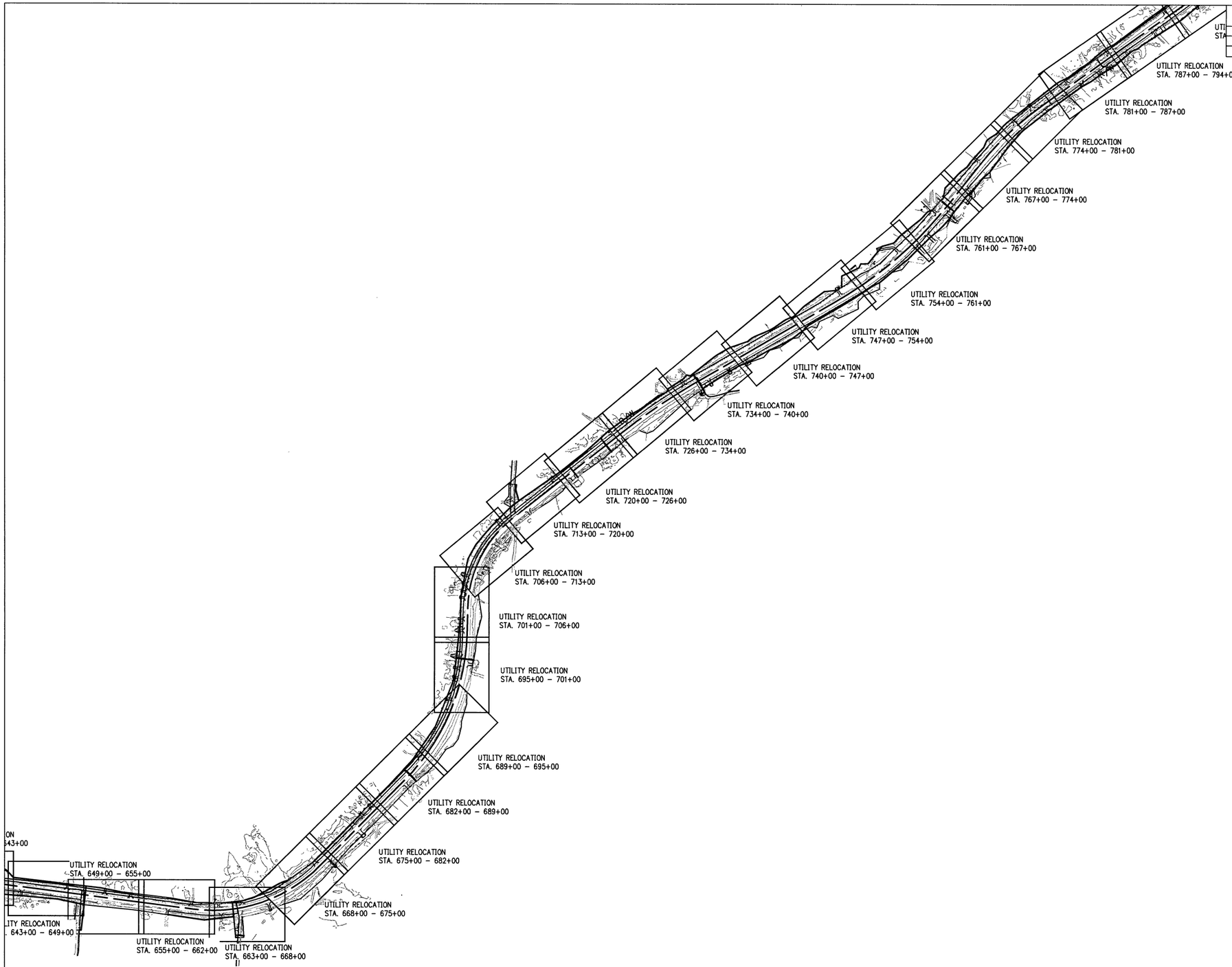
6	ARK.			
JOB NO.		CA0801	175	605

(2) UTILITY RELOCATION INDEX

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS



GRAPHIC SCALE IN FEET
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UTILITY RELOCATION INDEX
STA. 649+00 - 790+00

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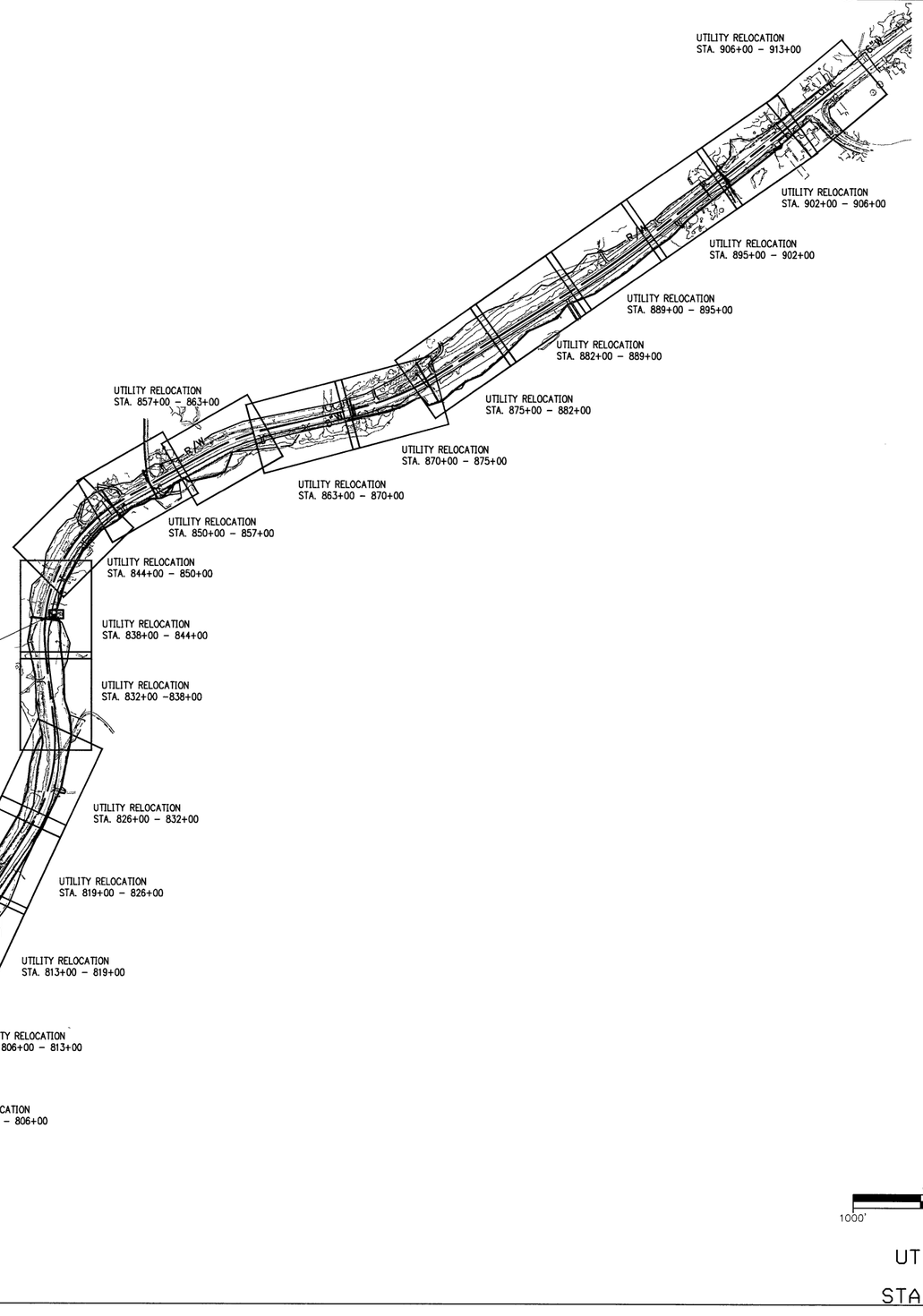
				6	ARK.			
				JOB NO.		CA0801	176	605

(2) UTILITY RELOCATION INDEX



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS

GRAPHIC SCALE IN FEET
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UTILITY RELOCATION INDEX
STA 790+00 - 913+00

11/9/2018 11:03:26 AM

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				6	ARK.			
				JOB NO.		CA0801	177	605

(2) UTILITY RELOCATION GENERAL NOTES

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
12-12-18

WATERLINE GENERAL NOTES

1. ALL WATER LINES ARE AS NOTED ON THE PLAN AND SPECIFICATIONS.
2. ALL WATER LINES SHALL HAVE A MINIMUM OF 30" COVER. ALL SERVICE LINES SHALL HAVE A MINIMUM OF 24" COVER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. THE WATER LINE SHALL BE A MINIMUM OF 5 FEET FROM ALL POWER LINES AND POLES.
4. ALL SERVICE LINES SHALL BE 1" UNLESS OTHERWISE NOTED ON THE PLANS. SERVICE LINES SHALL EXTEND TO THE PROPERTY LINE. ALL WATER METERS SHALL BE ACCESSIBLE TO A METER READER (I.E. METER READERS WILL NOT BE REQUIRED TO CLIMB FENCES OR WALK UNREASONABLE DISTANCES TO ACCESS METERS.)
5. THE CONTRACTOR SHALL MATCH EXISTING SIZE AND MATERIAL WHEN MAKING REPAIRS TO DAMAGED UTILITIES. REPAIRS SHALL BE MADE PROMPTLY.
6. THE UTILITY LOCATIONS SHOWN ARE THE BEST INFORMATION AVAILABLE FROM THE RESPECTIVE UTILITY COMPANY. AT LEAST 48 HOURS BEFORE DOING ANY WORK IN A GIVEN AREA, THE CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND HAVE THEM MARK THE EXACT LOCATION OF UNDERGROUND UTILITIES.
7. WATER LINES SHALL NOT BE LAID WITHIN 10 FEET OF A SEWER LINE OR DISPOSAL FIELD. IF SEWER OR DISPOSAL FIELD LINES ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND THE LINE SHALL BE REROUTED AS NECESSARY TO COMPLY WITH THIS PROVISION.
8. AT GAS LINE CROSSING A MINIMUM OF 18" VERTICAL CLEARANCE MUST BE MAINTAINED.
9. WATERLINES CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN INCHES ABOVE THE SEWER LINE.
10. USE RETAINER GLANDS ON ALL M.J. FITTINGS AND VALVES
11. ALL FIRE/FLUSHING HYDRANTS TO BE RESTRAINED WITH MECHANICAL FITTINGS.
12. EROSION CONTROL WILL BE INSTALLED AT EACH LOCATION THAT THE WATER LINES CROSS ROADS, DITCHES, OR DRAINAGE DITCHES.
13. ALL BURIED CONDUITS (POWER, WATER, WASTEWATER, CHLORINE) SHALL HAVE TRACEABLE WARNING TAPE 12" BELOW FINISHED GRADE.
14. CARE SHALL BE TAKEN TO AVOID INSTALLING VALVES IN A DITCH LINE.
15. ALL SERVICE LINES THAT CROSS ROADS WILL BE INSTALLED IN A 2" PVC CONDUIT.
16. ALL WATERLINE EASEMENTS SHALL BE 15 FEET WIDE UNLESS OTHERWISE NOTED.
17. DO NOT EXCEED MANUFACTURES ALLOWABLE DEFLECTION.
18. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS IS BASED ON A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS. CRAFTON TULL ASSUMES NO RESPONSIBILITY REGARDING THE ACCURACY OF THE DEPICTED LOCATION(S) OF THE UNDERGROUND FACILITIES ON THESE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ANY OTHER FACILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION OF ALL FACILITIES BEFORE BEGINNING WORK.
19. CUT & CAPS TO BE COMPLETED AFTER PRESSURE TESTING, BACTERIOLOGICAL SAMPLING AND WATER METERS HAVE BEEN RECONNECTED TO NEW WATERLINE.
20. ENERGIZED ELECTRICAL LINE SAFETY WARNINGS AND ADVANCED NOTICES: ALL OWNERS, GENERAL CONTRACTORS, AND SUBCONTRACTORS ASSOCIATED WITH THIS PROJECT SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH, COMPLYING WITH, AND THE ENFORCEMENT OF ARKANSAS CODES AR ST § 11-5-307 AND § AR ST 11-5-308 AND ANY OTHER CURRENT STATE CODES PERTAINING TO ADVANCE NOTICE REQUIREMENTS AND FOR SAFETY OF ALL PERSONNEL, INCLUDING THE GENERAL PUBLIC, PERTAINING TO ANY WORK, MOVEMENT, AND ACTIVITY IN CLOSE PROXIMITY TO ANY ENERGIZED ELECTRICAL LINE.

ABBREVIATIONS

G.V.	GATE VALVE
F.H. ASSEMBLY	FLUSHING HYDRANT ASSEMBLY
PRV	PRESSURE REDUCING VALVE
T. S. & V.	TAPPING SLEEVE AND VALVE

LEGEND (EXISTING SYMBOLS)

SYMBOLS	LINEWORK
FOUND IRON PIN	EASEMENT
LIGHT POLE	CURB
POWER POLE	INTERMEDIATE CONTOUR
TELEPHONE PEDESTAL	INDEX CONTOUR
TV PEDESTAL	SANITARY SEWER LINE
MANHOLE	GAS LINE
SANITARY SEWER CLEANOUT	WATER LINE (SPECIFY SIZE & TYPE)
GAS METER	UNDERGROUND TELEPHONE
GAS VALVE	UNDERGROUND ELECTRIC
STORM SEWER PIPE	OVERHEAD ELECTRIC
DOWN GUY	UNDERGROUND TELEVISION
WATER VALVE	OVERHEAD TELEVISION
FIRE HYDRANT ASSEMBLY	CHAIN LINK FENCE
AIR RELEASE VALVE	WOOD FENCE
FIRE DEPARTMENT CONNECTION	BARBED WIRE FENCE
WATER METER	FIBER OPTIC
SPRINKLER HEAD	RIGHT OF WAY
ELECTRIC PEDESTAL	ROAD CENTERLINE
GRATED INLET	
DROP INLET	
TREE	
TREE TO BE REMOVED	

LEGEND (CONSTRUCT)

SYMBOLS	LINEWORK
SET IRON PIN	EASEMENT
LIGHT POLE	CURB
POWER POLE	INTERMEDIATE CONTOUR
TELEPHONE PEDESTAL	INDEX CONTOUR
TV PEDESTAL	SANITARY SEWER LINE
MANHOLE	GAS LINE
SANITARY SEWER CLEANOUT	WATER LINE
GAS METER	UNDERGROUND TELEPHONE
GAS VALVE	UNDERGROUND ELECTRIC
STORM SEWER PIPE	OVERHEAD ELECTRIC
STRUCTURE NUMBER	FIBER OPTIC
WATER VALVE	UNDERGROUND TELEVISION
FIRE HYDRANT ASSEMBLY	OVERHEAD TELEVISION
AIR RELEASE VALVE	CHAIN LINK FENCE
FIRE DEPARTMENT CONNECTION	WOOD FENCE
WATER METER	BARBED WIRE FENCE
BACK FLOW PREVENTER	BUILDING SET BACK
REDUCER	RIGHT OF WAY
RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	PROPERTY LINE
CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	ROAD CENTERLINE

USER:BRADLEY NELSON
DESIGN FILE: G:\17\105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
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UTILITY RELOCATION GENERAL NOTES
11/9/2018 11:03:27 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	175	625

(2) UTILITY RELOCATION QUANTITIES

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18

SUMMARY OF UTILITY RELOCATION QUANTITIES (BOX 1 OF 2)

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	4" STEEL ENCASEMENT PIPE	70	LIN. FT.
SP	8" STEEL ENCASEMENT PIPE	220	LIN. FT.
SP	10" STEEL ENCASEMENT PIPE	120	LIN. FT.
SP	12" STEEL ENCASEMENT PIPE	40	LIN. FT.
SP	14" STEEL ENCASEMENT PIPE	220	LIN. FT.
SP	8" STEEL ENCASEMENT PIPE ON EXISTING PIPE	40	LIN. FT.
SP	14" STEEL ENCASEMENT PIPE ON EXISTING PIPE	80	LIN. FT.
SP	2" PVC ENCASEMENT PIPE	40	LIN. FT.
SP	4" PVC ENCASEMENT PIPE	1010	LIN. FT.
SP	6" PVC ENCASEMENT PIPE	40	LIN. FT.
SP	8" PVC ENCASEMENT PIPE	480	LIN. FT.
SP	10" PVC ENCASEMENT PIPE	200	LIN. FT.
SP	15" PVC ENCASEMENT PIPE	2000	LIN. FT.
SP	2" PVC SDR-17 WATER MAIN	10589	LIN. FT.
SP	3" PVC SDR-17 WATER MAIN	567	LIN. FT.
SP	4" PVC SDR-17 WATER MAIN	10386	LIN. FT.
SP	2" CERTA-LOC YELOMINE SDR 17	520	LIN. FT.
SP	3" CERTA-LOC YELOMINE SDR 17	540	LIN. FT.
SP	4" CERTA-LOC YELOMINE SDR 17	350	LIN. FT.
SP	4" PVC DR-18 WATER MAIN	5	LIN. FT.
SP	6" PVC DR-18 WATER MAIN	6002	LIN. FT.
SP	8" PVC DR-18 WATER MAIN	29990	LIN. FT.
SP	6" CERTA-LOC DR 18	600	LIN. FT.
SP	8" CERTA-LOC DR 18	890	LIN. FT.
SP	REMOVAL AND DISPOSAL OF FLUSHING HYDRANT	25	EACH
SP	2" X 2" TAPPING SLEEVE, 2" TAPPING VALVE WITH BOX	4	EACH
SP	3" X 3" TAPPING SLEEVE, 3" TAPPING VALVE WITH BOX	1	EACH
SP	4" X 4" TAPPING SLEEVE, 4" TAPPING VALVE WITH BOX	2	EACH
SP	6" X 6" TAPPING SLEEVE, 6" TAPPING VALVE WITH BOX	6	EACH
SP	8" X 2" TAPPING SLEEVE, 2" TAPPING VALVE WITH BOX	1	EACH
SP	8" X 6" TAPPING SLEEVE, 6" TAPPING VALVE WITH BOX	1	EACH
* SP	DUCTILE IRON PIPE WATER MAIN FITTINGS	22711	POUND
SP	8" X 8" TAPPING SLEEVE, 8" TAPPING VALVE WITH BOX	22	EACH
SP	10" POLYETHYLENE ENCASEMENT PIPE	90	LIN. FT.
SP	1" POLYETHYLENE SERVICE TUBING	2700	LIN. FT.
SP	2" POLYETHYLENE SERVICE TUBING	160	LIN. FT.
SP	2" GATE VALVE WITH BOX	6	EACH
SP	3" GATE VALVE WITH BOX	7	EACH
SP	4" GATE VALVE WITH BOX	4	EACH
SP	6" GATE VALVE WITH BOX	6	EACH
SP	8" GATE VALVE WITH BOX	17	EACH
SP	2" GATE VALVE, THD x THD WITH BOX	9	EACH
SP	2" FLUSHING HYDRANT (1 WAY)	8	EACH
SP	3" FLUSHING HYDRANT (1 WAY)	2	EACH
SP	4" FLUSHING HYDRANT (2 WAY)	4	EACH
SP	6" FLUSHING HYDRANT (3 WAY)	28	EACH
SP	LINE STOP ON EXISTING 3" WATER MAIN	1	EACH
SP	LINE STOP ON EXISTING 4" WATER MAIN	2	EACH
SP	LINE STOP ON EXISTING 6" WATER MAIN	4	EACH
SP	LINE STOP ON EXISTING 8" WATER MAIN	20	EACH
SP	CUT AND CAP EXISTING WATER MAIN (2")	11	EACH
SP	CUT AND CAP EXISTING WATER MAIN (3")	4	EACH
SP	CUT AND CAP EXISTING WATER MAIN (4")	2	EACH
SP	CUT AND CAP EXISTING WATER MAIN (6")	5	EACH
SP	CUT AND CAP EXISTING WATER MAIN (8")	22	EACH
SP	4" PVC SCH 40 SEWER SERVICE	20	LIN. FT.
SP	8" PVC SDR-26 SEWER MAIN	2200	LIN. FT.
SP	4" MANHOLE RISER	1	EACH
SP	MANHOLE, 0' TO 6' DEPTH (4' DIAMETER)	4	EACH
SP	MANHOLE, EXTRA DEPTH (4' DIAMETER)	43	LIN. FT.
SP	DROP MANHOLE, 0' TO 6' DEPTH (4' DIAMETER)	2	EACH
SP	DROP MANHOLE, EXTRA DEPTH (4' DIAMETER)	22	LIN. FT.

SUMMARY OF UTILITY RELOCATION QUANTITIES (BOX 2 OF 2)

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	DOUBLE DROP MANHOLE, 0' TO 6' DEPTH (4' DIAMETER)	1	EACH
SP	DOUBLE DROP MANHOLE, EXTRA DEPTH (4' DIAMETER)	22	LIN. FT.
SP	MANHOLE OVER EXISTING SEWER LINE, 0' TO 6' DEPTH (4' DIAMETER)	6	EACH
SP	MANHOLE OVER EXISTING SEWER LINE, EXTRA DEPTH (4' DIAMETER)	9	LIN. FT.
SP	PLUG EXISTING SANITARY SEWER (8")	6	EACH
SP	CUT IN FITTING ON EXISTING 2" WATER MAIN	6	EACH
SP	CUT IN FITTING ON EXISTING 3" WATER MAIN	4	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER SERVICE 2" WATER MAIN	26	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER SERVICE 3" WATER MAIN	1	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER SERVICE 4" WATER MAIN	11	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER SERVICE 6" WATER MAIN	6	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER SERVICE 8" WATER MAIN	41	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER METER ON HIGH PRESSURE 4" MAIN	1	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER METER ON HIGH PRESSURE 6" MAIN	4	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER METER ON HIGH PRESSURE 8" MAIN	8	EACH
SP	RELOCATE EXISTING 1" WATER SERVICE 8" WATER MAIN	5	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER METER AND BACKFLOW PREVENTER ON 6" MAIN	1	EACH
SP	RELOCATE EXISTING 5/8" x 3/4" WATER METER AND PRESSURE REGULATING VALVE ON HIGH PRESSURE 6" MAIN	1	EACH
SP	RECONNECT EXISTING 5/8" x 3/4" WATER SERVICE 2" WATER MAIN	3	EACH
SP	RECONNECT EXISTING 5/8" x 3/4" WATER SERVICE 8" WATER MAIN	5	EACH
SP	2" STATE HIGHWAY CROSSING (HDPE)	810	LIN. FT.
SP	6" STATE HIGHWAY CROSSING (HDPE)	650	LIN. FT.
SP	8" STATE HIGHWAY CROSSING (HDPE)	320	LIN. FT.
SP	10" STATE HIGHWAY CROSSING (HDPE)	380	LIN. FT.
SP	14" STATE HIGHWAY CROSSING (HDPE)	605	LIN. FT.
SP	HIGHWAY CROSSING MARKER	20	EACH
SP	2" COUNTY ROAD BORE (HDPE)	990	LIN. FT.
SP	6" COUNTY ROAD BORE (HDPE)	80	LIN. FT.
SP	10" COUNTY ROAD BORE (HDPE)	80	LIN. FT.
SP	14" COUNTY ROAD BORE (HDPE)	140	LIN. FT.
SP	14" SWAMP BORE (HDPE)	120	LIN. FT.
SP	2" MASTER METER	1	EACH
SP	8" AIR RELEASE VALVE ASSEMBLY	2	EACH
SP	4" x 45 DEGREE BEND	2	EACH
SP	8" x 4" WYE	1	EACH
SP	TRACER WIRE TEST STATION	86	EACH
SP	VALVE MARKER	42	EACH
SP	TIE EXISTING SERVICE LINE TO NEW SANITARY SEWER LINE	1	EACH

* (THESE ITEMS ARE FOR INFORMATION ONLY)

DUCTILE IRON PIPE WATER MAIN FITTINGS ITEM	QUANTITY	UNIT
8" x 90° BEND	20	EACH
8" x 45° BEND	50	EACH
8" x 22.5° BEND	14	EACH
8" SOLID SLEEVE	9	EACH
8" x 6" ANCHOR TEE	24	EACH
8" TEE	4	EACH
8" x 6" TEE	2	EACH
8" x 4" TEE	2	EACH
8" x 3" TEE	3	EACH
8" x 2" MJ x THD TAPT TEE	6	EACH
8" x 6" REDUCER	3	EACH
8" CAP	22	EACH
8" x 2" TAPPED PLUG	2	EACH
8" RETAINER GLANDS	327	EACH
6" x 90° BEND	3	EACH
6" x 45° BEND	10	EACH
6" x 22.5° BEND	2	EACH
6" ANCHOR TEE	2	EACH
6" TEE	3	EACH
6" x 2" TEE	2	EACH
6" x 4" REDUCER	1	EACH
6" x 2" TAPPED PLUG	2	EACH
6" CAP	5	EACH
6" RETAINER GLANDS	83	EACH
4" x 90° BEND	1	EACH
4" x 45° BEND	1	EACH
4" ANCHOR TEE	4	EACH
4" TEE	2	EACH
4" x 3" REDUCER	1	EACH
4" CAP	2	EACH
4" RETAINER GLANDS	34	EACH
3" x 90° BEND	4	EACH
3" x 45° BEND	2	EACH
3" SOLID SLEEVE	3	EACH
3" ANCHOR TEE	2	EACH
3" x 2" TEE	2	EACH
3" CAP	4	EACH
3" RETAINER GLANDS	49	EACH
2" x 90° BEND	7	EACH
2" x 45° BEND	2	EACH
2" MIDCO COUPLING	13	EACH
2" ANCHOR TEE	3	EACH
2" TEE	3	EACH
2" CAP	12	EACH
2" MJ X THD TAPT CAP	1	EACH
2" RETAINER GLANDS	90	EACH
2" x 12" BRASS NIPPLE, MIP x MIP	9	EACH
2" x 12" BRASS NIPPLE, MIP x PE	12	EACH
2" PE TO MJ ADAPTER	2	EACH

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300-AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:03:27 AM SCALE: ----

UTILITY RELOCATION QUANTITIES
11/9/2018 11:03:27 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	179	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18

495

STA 497+04.36
BEGIN JOB

HWY 65

500

EXISTING R/W

PROPOSED R/W

CONST. LIMITS

1 – TRACER WIRE TEST STATION
1 – 2" TAPPING SLEEVE AND VALVE ASSEMBLY
SEE DETAIL ON UTILITY DETAIL (2 OF 7) SHEET
1 – 2" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 2" TO BE ABANDONED IN PLACE
EXISTING 2" TO REMAIN
1 – 2" F.H. ASSEMBLY
1 – 2" ANCHOR TEE
2" PVC SDR 17

2" PVC SDR 17 (235 LF)

30 LF 4" PVC CASING

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

2" PVC SDR 17

4" x 10 LF STEEL CASING

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

RIP/RAP

GRASS

LANDSCAPE

SMALL ROCK LEVEE

EXISTING 2" TO BE ABANDONED IN PLACE

MATCH LINE

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" x 22.5° BEND

8" PVC C900 DR 18 (504 LF)

1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 8" INSERTA VALVE

EXISTING 8" SDR 21 TO REMAIN

1 – 8" T. S. & V.

EXISTING 8" SDR 21 TO BE ABANDONED IN PLACE

1 – 8" x 6" ANCHOR TEE

1 – 6" F.H. ASSEMBLY

1 – TRACER WIRE TEST STATION

1 – 8" x 45° BEND

1 – 8" x 22.5° BEND

8" PVC C900 DR 18

8" C900 D (9

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 495+00 - 502+00

11/9/2018 11:03:43 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:03:43 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	186	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS

CASING
BUTARY OF
K CROSSING

MATCH LINE

2" PVC SDR 17 (421 LF)

R/W
2"W
4'

2" PVC SDR 17
R/W
2"W
4'

MATCH LINE

EXISTING R/W

GRASS

EXISTING 2" TO BE ABANDONED IN PLACE

505

HWY 65

EXISTING 8" SDR 21 TO BE ABANDONED IN PLACE

EXISTING 8" SDR 21 TO REMAIN

8"W

2'

8" PVC C900 DR 18 (95 LF)

1 – 8" x 22.5° BEND

1 – 8" INSERTA VALVE

EXISTING 8" SDR 21 TO REMAIN

EXISTING 8" SDR 21 TO BE ABANDONED IN PLACE

1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 8" T. S. & V.

1 – VALVE MARKER

8" PVC C900 DR 18

1 – TRACER WIRE TEST STATION

1 – 8" x 45° BEND

8"SS

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 502+00 - 507+00

11/9/2018 11:03:57 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:03:57 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	181	685

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-4-18

MATCH LINE

CONST. LIMITS

EXISTING R/W

PROPOSED R/W

2" PVC SDR 17 (722 LF)

EXISTING 2" TO BE ABANDONED IN PLACE

4" x 20 LF PVC CASING

1 – TRACER WIRE TEST STATION

4" x 30 LF PVC CASING

2" PVC SDR 17

4" x 40 LF PVC CASING

EXISTING 2" TO BE ABANDONED IN PLACE

510

HWY 65

SIGN

MATCH LINE

EXISTING 8" TO REMAIN

REMOVE & ABANDON EX. F.H.

EXISTING 8" TO BE ABANDONED IN PLACE

15" x 20 LF PVC CASING

8" PVC C900 DR 18 (264 LF)

1 – 8" T. S. & V.

1 – 8" INSERTA VALVE.

1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 6" F.H. ASSEMBLY

1 – TRACER WIRE TEST STATION

1 – 8" x 90° BEND

1 – 8" x 6" ANCHOR TEE

8" PVC C900 DR 18

EXIST. SS MH #39
TOP RIM=684.84
FL=680.34 (8" PVC N)
FL=680.34 (8" PVC E)

NO HOUSE

MH #37
STA 127+86

MH #38
STA 129+75

1 – 8" INSERTA VALVE

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" T. S. & V.

EXISTING 8" TO REMAIN

1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – VALVE MARKER

8" PVC C900 DR 18

1 – 8" x 90° BEND

1 – TRACER WIRE TEST STATION

GRAPHIC SCALE IN FEET
50' 0 50'

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 507+00 - 514+00

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
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11/9/2018 11:04:12 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	182	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
11-9-18
No. 9620
HUBERT BURNS

MATCH LINE

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING.

4" x 20 LF PVC CASING

2" PVC SDR 17 (695 LF)

12" x 20 LF STEEL CASING

TIE EXISTING SERVICE INTO SANITARY SEWER LINE W/ 20 LF SERVICE LINE & 8" x 4" WYE W/ 2 EA 4" x 45° BEND

MH #2A, STA:11+64.04
HWY 65 STA. 516+19.83, 89.72 L
CONSTRUCT 4' DIA. DROP MH
TOP RIM=711.94
℄ IN = 702.46 8" PVC (NW)
℄ OUT = 696.62 8" PVC (SE)

TIE INTO EXIST. MH #1

8"SS 164.04 L.F. 8" PVC (SDR-26)

EXISTING 8" SS TO BE ABANDONED IN PLACE

4" x 20 LF PVC CASING

247.00 L.F. 8" PVC (SDR-26)

SANITARY SEWER MAIN A

SS MH #1, STA:10+00.00
EXISTING 4' DIA. MH
RAISE TOP OF MH RIM 4" ABOVE FINISHED GRADE
TOP RIM=696.44
℄ IN = 690.06 8" PVC (NW)
℄ IN = 689.86 8" PVC (S)
℄ IN = 689.86 8" PVC (NW)
℄ OUT = 689.86 8" PVC (NE) PLUG EXISTING PIPE WITH GROUT

EXIST. SS MH #2
TOP RIM=713.23
FL=708.80 (8" PVC NW)
FL=708.80 (8" PVC SE)
FL=708.80 (4" PVC W)

EXISTING 4" SS TO BE ABANDONED IN PLACE

1 - RELOCATE EX. METER W/ 25 LF SERVICE LINE

MH #3A, STA:14+11.04
HWY 65 STA. 518+66.02, 75.33 L
CONSTRUCT 4' DIA. DROP MH
TOP RIM=726.96
℄ IN = 721.14 8" PVC (NW)
℄ OUT = 712.34 8" PVC (SE)

EXIST. SS MH #3
TOP RIM=727.36
FL=723.00 (8" PVC NW)
FL=723.00 (8" PVC SE)

EXISTING 2" TO BE ABANDONED IN PLACE

1 - RELOCATE EX. METER W/ 35 LF SERVICE LINE

MH #40, STA. 8+54.96
EXISTING 4' DIA. MH
TOP RIM=694.40
℄ IN = 684.64 8" PVC (SW)
℄ IN = 684.64 8" PVC (N)
℄ OUT = 684.64 8" PVC (SE)

1 - RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 8" TO REMAIN

1 - RELOCATE EX. METER W/ 20 LF SERVICE LINE

EXISTING 2" TO REMAIN
1 - 2" MIDCO COUPLING
1 - 2" CUT IN TEE
1 - 2" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 2" TO BE ABANDONED IN PLACE
1 - VALVE MARKER
1 - 2" G.V.
1 - TRACER WIRE TEST STATION
1 - 2" x 45° BEND
2" PVC SDR 17 (10 LF)
1 - 2" TEE

MH #5, STA. 17+88.74
EXISTING 4' DIA. MH
TOP RIM=733.99
℄ OUT = 730.04 8" PVC (E)
℄ OUT = 730.04 8" PVC (N)

1 - 2" F.H. ASSEMBLY
2" PVC SDR 17 (25 LF)

MH #4A, STA:15+79.32
HWY 65 STA. 520+26.73, 79.45 L
CONSTRUCT 4' DIA. MH OVER EXISTING SEWER LINE
TOP RIM=735.83
℄ IN = 728.87 8" PVC (W)
℄ OUT = 727.87 8" PVC (SE)
℄ OUT = 728.87 8" PVC (E)

BREAK EXISTING PIPE THEN PLUG WITH GROUT

168.28 L.F. 8" PVC (SDR-26)

4" x 20 LF PVC CASING

2" PVC SDR 17

8" SS SDR35

1 - 2" G.V.

1 - VALVE MARKER

1 - 2" TEE

REMOVE & ABANDON EX. F.H.

4" x 20 LF PVC CASING

EXISTING 2" TO BE ABANDONED IN PLACE

EX. 2" G.V. TO BE ABANDONED

MATCH LINE

EXIST. SS MH #4
TOP RIM=735.39
FL=728.72 (8" PVC SE)
FL=728.72 (8" PVC W)

1 - 8" INSERTA VALVE

1 - 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 8" TO REMAIN

1 - 8" T. S. & V.

8" PVC C900 DR 18

1 - 8" x 45° BEND

1 - 6" F.H. ASSEMBLY

EXISTING 8" TO BE ABANDONED IN PLACE

1 - TRACER WIRE TEST STATION

1 - 8" x 6" ANCHOR TEE

MH #42
STA 138+81

15" x 70 LF PVC CASING

1 - 8" x 22.5° BEND

8" PVC C900 DR 18 (105 LF)

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

EXIST. SS MH #41
TOP RIM=696.95
FL=691.09 (8" PVC NW)
FL=691.09 (8" PVC SW)

MH #42A
STA 140+34

HWY 65

515

520

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 514+00 - 521+00

11/9/2018 11:04:28 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:04:28 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.	CA0801		183	605

UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-19-18

2

MATCH LINE

8"SS — 8"SS — 8"SS — 8"SS — 8"SS

4" x 20 LF PVC CASING

2" PVC SDR 17

R/W — 2"W — CONST. LIMITS

4" x 30 LF PVC CASING

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 2" TO BE ABANDONED IN PLACE

EXISTING R/W

2" PVC SDR 17 (656 LF)

PROPOSED R/W

525

HWY 65

BRICK PILLAR

4" x 30 LF PVC CASING

MATCH LINE

2" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 8" TO BE ABANDONED IN PLACE

8"W — 8"SS

CONST. LIMITS

8" PVC C900 DR 18

15" x 40 LF PVC CASING

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

15" x 20 LF PVC CASING

MH #43 STA 141+31

MH #44 STA 142+45

8" PVC C900 DR 18 (518 LF)

SHRUBS

EX. 8" G.V. TO BE ABANDONED

15" x 20 LF PVC CASING

1 – 8" G.V.

1 – VALVE MARKER

SCD R/W

15" x 20 LF PVC CASING

STORM SHELTER

WALL

PLANTER

REMOVE & ABANDON EX. F.H.

EXISTING 8" TO BE ABANDONED IN PLACE

EX. 8" G.V. TO BE ABANDONED

1 – 8" G.V.

8" PVC C900 DR 18

1 – 8" x 6" ANCHOR TEE

1 – 6" F.H. ASSEMBLY

PATIO

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 521+00 - 527+00

11/9/2018 11:04:44 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:04:44 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	184	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11-9-18

1 – HWY CROSSING MARKER
1 – TRACER WIRE TEST STATION
1 – 2" MIDCO COUPLING
1 – 8" TEE
1 – 8" x 6" ANCHOR TEE
1 – 2" THD. G.V. W/ 1 – 2" x 12" BRASS NIPPLE, MIP x MIP 1 – 2" x 12" BRASS NIPPLE, MIP x PE
1 – 8" G.V.
1 – 8" x 2" TAPPED PLUG
1 – 6" F.H. ASSEMBLY
15" x 20 LF PVC CASING
8" PVC DR 18 (292 LF)
MATCH LINE
2" PVC SDR 17 (207 LF)
REMOVE & ABANDON EX. F.H.
EXISTING 2" TO BE ABANDONED IN PLACE
EXIST. 8" G.V. TO BE ABANDONED
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
STA 528+94
HIGHWAY BORE
165 LF HIGHWAY BORE WITH 14" PE CASING
180 LF 8" CERTA-LOK (C900, DR18)
SEE UTILITY RELOCATION WATER HWY CROSSING (1 OF 8) SHEET
EXISTING 6" WATERLINE & HIGHWAY BORE TO BE ABANDONED IN PLACE
530
HWY 65
14" x 20 LF STEEL CASING
1 – 8" x 22.5° BEND
1 – 8" x 45° BEND
MH # 7, STA. 28+78.54
EXISTING 4' DIA. MH
TOP RIM=788.66
℄ IN = 781.90 8" PVC (NE)
℄ OUT = 781.90 8" PVC (S)
8"SS
CUT & GRAVEL REPLACE 4.44 C.Y.
MH #8A, STA: 31+45.43
HWY 65 STA. 531+94.97, 87.51 L
CONSTRUCT 4' DIA. MH OVER EXISTING SEWER LINE
TOP RIM=802.45
℄ IN = 798.26 8" PVC (N)
℄ IN = 798.06 8" PVC (NE) BREAK EXISTING PIPE THEN PLUG WITH GROUT
℄ OUT = 798.06 8" PVC (SW)
15" x 100 LF PVC CASING
TOP OF CASING TO BE LAID 6'± BELOW EXISTING GRADE
EXIST. SS MH #8
TOP RIM=803.51
FL=799.51 (8" PVC NE)
FL=799.51 (8" PVC SW)
120 LF 8" CERTA-LOK (C900, DR18)
1 – 8" SOLID SLEEVE
8" PVC DR 18 (64 LF)
SANITARY SEWER MAIN A
EXISTING 8" SS TO BE ABANDONED IN PLACE
327.82 L.F. 8" PVC (SDR-26)
MATCH LINE
15" x 20 LF PVC CASING
8" PVC DR 18 (192 LF)
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 2" TO BE ABANDONED IN PLACE
2" PVC SDR 17 (495 LF)
4" x 20 LF STEEL CASING
4" x 20 LF PVC CASING
PS NO. 1
GROUND ELEV. 770.00'
SEE PUMP STATION NO. 1 UTILITY RELOCATION STA. 528+58 RIGHT
MH #45
STA 146+20
MH #46
STA 149+56
EXISTING 6" TO BE ABANDONED IN PLACE
EX. 6" G.V. TO BE ABANDONED
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 2" TO BE ABANDONED IN PLACE
1 – 8" x 2" TAPPED PLUG
1 – 2" THD. G.V. W/ 1 – 2" x 12" BRASS NIPPLE, MIP x MIP 1 – 2" x 12" BRASS NIPPLE, MIP x PE
1 – 2" MIDCO COUPLING
1–8" G.V.
8" PVC DR 18
8" TEE
1 – HWY CROSSING MARKER
1 – TRACER WIRE TEST STATION
2" PVC SDR 17

GRAPHIC SCALE IN FEET
50' 0 50'

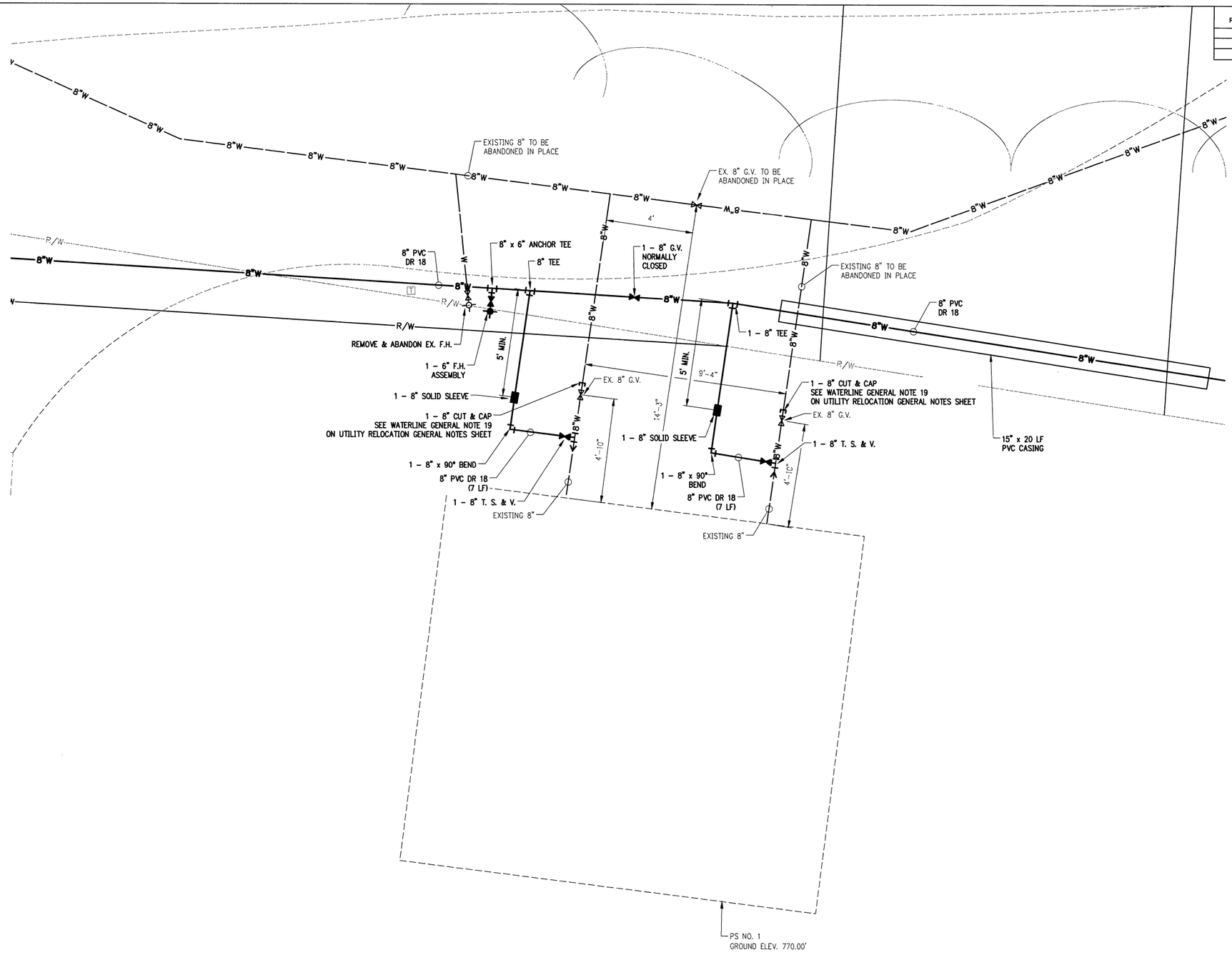
UTILITY RELOCATION
STA. 527+00 - 534+00

11/9/2018 11:05:00 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300-AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:05:00 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	185	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS



GRAPHIC SCALE IN FEET
5' 0 5'

PUMP STATION NO. 1
UTILITY RELOCATION
STA. 528+58 RIGHT

11/9/2018 11:05:14 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:05:14 AM SCALE: ----

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	186	605
				2	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

EXIST. SS MH #9
TOP RIM=820.88
FL=816.89 (8" PVC NE)
FL=816.89 (8" PVC SW)

MH # 9A, STA:34+73.26
HWY 65 STA. 535+18.52, 116.92 L
CONSTRUCT 4' DIA. DROP MH
TOP RIM=829.84
℄ IN = 817.45 8" PVC (NE)
℄ OUT = 811.37 8" PVC (S)

MH #10, STA. 36+41.44
EXISTING 4' DIA. MH
TOP RIM=825.78
℄ IN = 820.98 8" PVC (NW)
℄ OUT = 820.98 8" PVC (S)

MH #10A, STA:36+28.22
HWY 65 STA. 536+72.37, 98.31 L
CONSTRUCT 4' DIA. MH OVER EXISTING SEWERLINE
TOP RIM=825.08
℄ IN = 820.66 8" PVC (N)
℄ OUT = 819.98 8" PVC (SW)
℄ OUT = 820.66 8" PVC (S)
BREAK EXISTING PIPE THEN PLUG WITH GROUT

8" PVC C900 DR 18 (546 LF)

154.97 L.F. 8" PVC (SDR-26)

15" x 60 LF PVC CASING

15" x 100 LF PVC CASING

SANITARY SEWER MAIN A

EXISTING 8" SS TO BE ABANDONED IN PLACE

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

EXISTING 2" TO BE ABANDONED IN PLACE

PROPOSED R/W

15" X 20 LF PVC CASING

535

HWY 65

CONST. LIMITS

2" PVC SDR 17 (695 LF)

4" x 20 LF PVC CASING

1 – 2" x 45° BEND

POND

1 – 2" THREADED G.V. W/
1 – 2" x 12" BRASS NIPPLE, MIP x MIP
1 – 2" x 12" BRASS NIPPLE, MIP x PE

1 – TRACER WIRE TEST STATION

EXISTING 2" TO REMAIN

1 – 2" THD. F.H. ASSEMBLY

1 – 2" MIDCO COUPLING

1 – 2" TEE

1 – 2" CUT IN TAPPED TEE

1 – 2" x 12" BRASS NIPPLE, MIP x PE

1 – 2" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 2" TAPPED CAP

2" PVC SDR 17

EXISTING 2" TO BE ABANDONED IN PLACE

EXIST. SS MH #11
TOP RIM=838.50
FL=832.23 (8" PVC NW)
FL=832.23 (8" PVC SE)

CLINTON SEVENTH DAY ADVENTISTS

METER LOOP

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

2" PVC SDR 17 (186 LF)

4" x 20 LF PVC CASING

8" PVC C900 DR 18

CONST. LIMITS

1 – 8" SOLID SLEEVE

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

EX. G.V. TO BE ABANDONED

REMOVE & ABANDON EX. F.H.

OLD WELL

SKYHILL DRIVE

RET. WALL

2" PVC SDR 17

1 – 2" MIDCO COUPLING

1 – 2" G.V. W/
1 – 2" x 12" BRASS NIPPLE, MIP x MIP
1 – 2" x 12" BRASS NIPPLE, MIP x PE

1 – TRACER WIRE TEST STATION

1 – 8" x 2" TAPPED TEE.

1 – 6" F.H. ASSEMBLY

1 – 8" x 6" ANCHOR TEE

8" PVC C900 DR 18

60 LF COUNTY BORE WITH 14" PE CASING
80 LF 8" CERTA-LOK (YELOMINE, SDR17)

1 – 8" SOLID SLEEVE

BASKETBALL COURT

8" PVC C900 DR 18 (77 LF)

MATCH LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

540

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

4" x 30 LF PVC CASING

1 – TRACER WIRE TEST STATION

4" x 20 LF PVC CASING

EXISTING 2" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

4" x 20 LF PVC CASING

2" PVC SDR 17

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 534+00 - 541+00

11/9/2018 11:05:30 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:05:30 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	187	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
No. 9820
HUBERT BURNS

MATCH LINE

BASKETBALL COURT

RET. WALL

15" x 30 LF PVC CASING

8" PVC C900 DR 18 (717 LF)

15" x 20 LF PVC CASING

RELOCATE EX. METER 10 LF SERVICE LINE

EXISTING R/W

EXISTING 6" TO BE ABANDONED IN PLACE

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – 2" F.H. ASSEMBLY

1 – 2" TEE

1 – 2" THREADED G.V. W/ 1 – 2" x 12" BRASS NIPPLE, MIP x MIP 1 – 2" x 12" BRASS NIPPLE, MIP x PE

1 – 8" x 2" TAPPED TEE.

8" PVC C900 DR 18

1 – TRACER WIRE TEST STATION

1 – 2" THREADED G.V. W/ 1 – 2" x 12" BRASS NIPPLE, MIP x MIP 1 – 2" x 12" BRASS NIPPLE, MIP x PE

EXISTING 2" TO REMAIN

1 – 2" MIDCO COUPLING

1 –2" CUT IN TAPPED TEE

1 – 2" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

EXISTING 2" TO BE ABANDONED IN PLACE

EXISTING 2" TO REMAIN

EXIST. SS MH #12
TOP RIM=841.69
FL=837.69 (10" PVC E)
FL=837.69 (8" PVC W)

MH #12
STA 31+99

EXIST. SS MH #11
TOP RIM=843.91
FL=839.14 (10" PVC N)
FL=839.14 (10" PVC W)

1 – RECONNECT EX. METER W/ 10 LF SERVICE LINE

15" x 30 LF PVC CASING

15" x 30 LF PVC CASING
TOP OF CASING TO BE MINIMUM 6' DEEP TO CLEAR SEWER LINE

8" PVC C900 DR 18

EXISTING 2" TO BE ABANDONED IN PLACE

EXISTING 2" TO BE ABANDONED IN PLACE

2" PVC SDR 17 (726 LF)

4" x 20 LF PVC CASING

4" x 20 LF PVC CASING

4" x 20 LF PVC CASING

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

2" PVC SDR 17

HWY 65

545

VILLAGE ROAD

9 MAIL BOXES

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

EX ABAN

EXI ABAN

MATCH LINE

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 541+00 - 548+00

11/9/2018 11:05:45 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:05:45 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	CA0801	188605		
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9620
HUBERT BURNS

UM 6' DEEP

MATCH LINE

8" PVC C900 DR 18 (717 LF)

EXIST. SS MH #13
TOP RIM=846.74
FL=841.10 (10" PVC N)
FL=841.10 (10" PVC S)

MH #13
STA 35+39

1 – TRACER WIRE TEST STATION

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

15" x 40 LF PVC CASING

EXIST. SS MH #14
TOP RIM=866.49
FL=862.06 (10" PVC NW)
FL=862.06 (10" PVC SW)

MH #14
STA 39+19

MH #15
STA 43+19

EXIST. SS MH #15
TOP RIM=866.99
FL=863.28 (8" PVC NW)
FL=863.28 (10" PVC SW)

1 – 8" x 22.5° BEND

1 – 8" x 22.5° BEND

1 – 6" F.H. ASSEMBLY

REMOVE & ABANDON EX. F.H.

EX. 8" G.V. TO BE ABANDONED

1 – 8" x 6" ANCHOR TEE

1 – 8" G.V.

8" PVC C900 DR 18

1 – RELOCATE EX. METER W/ 20 LF SERVICE LINE

EXISTING 6" TO BE ABANDONED IN PLACE

EXISTING 8" TO BE ABANDONED IN PLACE

RUINS

RUINS

550

HWY 65

555

EXISTING 2" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – TRACER WIRE TEST STATION

2" PVC SDR 17 (705 LF)

4" x 40 LF PVC CASING

WATER LITTER SIGN

SALEM ARMS COURT

BRUSH

BRUSH

FIRST ASSEMBLY OF GOD

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 2" TO BE ABANDONED IN PLACE

4" x 20 LF PVC CASING

2" PVC SDR 17

MATCH LINE

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 548+00 - 555+00

11/9/2018 11:05:59 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:05:59 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	189	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
11-9-18
No. 9620
HUBERT BURNS

MATCH LINE

RUINS

DECK

15" x 20 LF PVC CASING

8" PVC C900 DR 18 (678 LF)

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

1 – 8" x 6" ANCHOR TEE

1 – 6" F.H. ASSEMBLY

REMOVE & ABANDON EX. F.H.

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – TRACER WIRE TEST STATION

PROPOSED R/W

CONST. LIMITS

555

560

HWY 65

EXISTING 2" TO BE ABANDONED IN PLACE

2" PVC SDR 17 (234 LF)

EXISTING R/W

1 – 2" MIDCO COUPLING

EXISTING 2" TO REMAIN

1 – 2" CUT IN TEE

1 – 2" G.V.

1 – VALVE MARKER

1 – 2" x 90° BEND

1 – TRACER WIRE TEST STATION

1 – 2" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

PLANTER

8"SS

MH #55 STA 180+22

MH #56 STA 183+18

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 555+00 - 561+00

11/9/2018 11:06:13 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:06:13 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	196	665
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

1 – 8" x 45° BEND
8" PVC C900 DR 18
8"W
15" x 30 LF PVC CASING
1 – 8" G.V.
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
R/W
8"W
1 – 8" x 45° BEND
15" x 20 LF PVC CASING
EX. G.V TO BE ABANDONED
REMOVE & ABANDON EX. F.H.
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
8" PVC C900 DR 18 (706 LF)
MATCH LINE
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
565
HWY 65
EXISTING 2" TO BE ABANDONED IN PLACE
2" PVC SDR 17 (104 LF)
1 – 2" x 90° BEND
1 – TRACER WIRE TEST STATION
1 – 2" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
1 – 2" MIDCO COUPLING
EXISTING 2" TO REMAIN
EXISTING 2" TO BE ABANDONED IN PLACE
1 – 2" CUT IN TEE
1 – 2" G.V.
1 – 2" ANCHOR TEE
2" PVC SDR 17
1 – 2" F.H. ASSEMBLY
STORM SHELTER

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 561+00 - 568+00

11/9/2018 11:06:27 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\171105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:06:27 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	191	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS

MATCH LINE

MATCH LINE

8" PVC C900 DR 18 (708 LF)

1 – TRACER WIRE TEST STATION

1 – 8" x 45° BEND

1 – 8" x 45° BEND

1 – 8" x 45° BEND

8" PVC C900 DR 18

CONST. LIMITS

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING R/W

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

570

HWY 65

575

EXISTING 2" TO BE ABANDONED IN PLACE

AVOID WELL

2" PVC SDR 17 (690 LF)

CONST. LIMITS

PROPOSED R/W

1 – TRACER WIRE TEST STATION

4" x 40 LF PVC CASING

RET/WALL

PATIO

CANOPY

DECK

SHRUBS

RET/WALL

GARDEN

RET/WALL

EXISTING R/W

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

4" x 20 LF STEEL CASING

EXISTING 2" TO BE ABANDONED IN PLACE

2" PVC SDR 17

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

4" x 40 LF STEEL CASING

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 568+00 - 575+00

11/9/2018 11:06:40 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:06:40 AM SCALE: ----

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	192	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11-9-18

EXIST. SS MH #2.2
TOP RIM=1025.76
FL=1020.56 (8" PVC E)
FL=1020.56 (8" PVC S)

MATCH LINE

MILLER TANK NO. 1
32,882 GALLON
GROUND ELEV. 1019.00'
OVERFLOW ELEV. 1075.00'

40 LF COUNTY ROAD BORE WITH 14" PE CASING
160 LF 8" CERTA-LOK (YELOMINE, DR18)

EXIST. SS MH #3
TOP RIM=1015.36
FL=1009.53 (8" PVC N)
FL=1009.53 (8" PVC E)

SANITARY SEWER MAIN B

MH # 2A, STA:15+05.01 MAIN B
LATERAL A STA. 10+00.00
HWY 65 STA. 579+33.90, 139.70 L
CONSTRUCT 4' DIA. DOUBLE DROP MH
TOP RIM=1015.17
℄ IN = 997.72 8" PVC (N)
℄ IN = 1006.04 8" PVC (S)
℄ OUT = 987.36 8" PVC (E)

MH # 3A, STA:16+03.80
HWY 65 STA. 580+44.42, 122.10 L
CONSTRUCT 4' DIA. MH
TOP RIM=1015.82
℄ IN = 998.32 8" PVC (N)
℄ OUT = 998.12 8" PVC (S)

MH # 2.1A, STA:11+15.70
HWY 65 STA. 578+00.89, 147.49 L
CONSTRUCT 4' DIA. MH OVER EXISTING SEWER LINE
TOP RIM=1013.27
℄ IN = 1006.70 8" PVC (W)
℄ OUT = 1006.50 8" PVC (N)
BREAK EXISTING PIPE THEN PLUG WITH GROUT ℄ OUT = 1006.70 8" PVC (E)

115.70 L.F. 8" PVC (SDR-26)
98.80 L.F. 8" PVC (SDR-26)
259.74 L.F. 8" PVC (SDR-26)

8" PVC C900 DR 18 (457 LF)
8" PVC C900 DR 18

15" x 20 LF PVC CASING
SANITARY SEWER LATERAL A

15" x 20 LF PVC CASING
1 - 8" x 45° BEND

EXIST. SS MH #2
TOP RIM=1009.24
FL=1001.99 (8" PVC PLUGGED N)
FL=1001.99 (8" PVC E)
FL=1001.99 (8" PVC S)
FL=1001.99 (8" PVC W)

EXIST. SS MH #2.1
TOP RIM=1007.14
FL=1002.65 (8" PVC NW)
FL=1002.65 (8" PVC SW)

EXISTING 8" SS TO BE ABANDONED IN PLACE
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING 2" TO BE ABANDONED IN PLACE

1 - RELOCATE EX. METER W/ 20 LF SERVICE LINE
1 - RELOCATE EX. METER W/ 20 LF SERVICE LINE
1 - RELOCATE EX. METER W/ 20 LF SERVICE LINE
1 - RELOCATE EX. METER W/ 10 LF SERVICE LINE
1 - RELOCATE EX. METER W/ 10 LF SERVICE LINE
1 - RECONNECT EX. METER W/ 10 LF SERVICE LINE
1 - RECONNECT EX. METER W/ 10 LF SERVICE LINE
1 - TRACER WIRE TEST STATION

STA 579+42
HIGHWAY BORE
260 LF HIGHWAY BORE WITH 14" PE CASING
SEE UTILITY RELOCATION SANITARY SEWER PROFILE (6 OF 8) SHEET

4" x 20 LF PVC CASING
4" x 20 LF PVC CASING
4" x 20 LF PVC CASING
4" x 40 LF PVC CASING

2" PVC SDR 17
2" PVC SDR 17 (613 LF)

EXIST. SS MH #1
TOP RIM=1000.13
FL=996.56 (8" PVC W)
FL=996.56 (8" PVC E)

MH # 1A, STA:12+45.27
HWY 65 STA. 579+30.75, 120.02 R
CONSTRUCT 4' DIA. MH
TOP RIM=997.98
℄ IN = 976.97 8" PVC (W)
℄ OUT = 974.97 8" PVC (E)

SANITARY SEWER MAIN B
CUT & GRAVEL REPLACE 8.88 C.Y.
EXISTING 8" SS TO BE ABANDONED IN PLACE
MH #0, STA. 10+05.02
EXISTING 4' DIA. MH
TOP RIM=969.93
℄ IN = 965.03 8" PVC (S)
℄ IN = 965.03 8" PVC (N) BREAK EXISTING PIPE THEN PLUG WITH GROUT
℄ OUT = 965.03 8" PVC (S)

MH #0A, STA:10+00.00
HWY 65 STA. 578+76.13, 356.17 R
CONSTRUCT 4' DIA. MH OVER EXISTING SEWER LINE
TOP RIM=969.93
℄ IN = 965.16 8" PVC (W)
℄ OUT = 964.96 8" PVC (N)

EX. "X" G.V. TO BE ABANDONED

UNNAME ARCHEY
EXI HIGH
GARDEN
BRUSH
RET/WALL
RUINS
STORM SHELTER
SIGN
PROPOSED R/W
R/W
HWY 65
575
580

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 575+00 - 581+00

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:06:56 AM SCALE: 1"=50'

11/9/2018 11:06:56 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	193	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9620
HUBERT BURNS

EXISTING 2" TO REMAIN
1 – TRACER WIRE TEST STATION
1 – 2" TAPPING SLEEVE AND VALVE ASSEMBLY SEE DETAIL ON UTILITY DETAIL (2 OF 7) SHEET
1 – 2" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 2" TO BE ABANDONED IN PLACE
1 – 2" x 90° BEND
2" PVC SDR 17
EXISTING 2" TO BE ABANDONED IN PLACE
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
2" PVC SDR 17 (182 LF)
4" x 20 LF PVC CASING
SEE PUMP STATION NO. 2 UTILITY RELOCATION STA. 581+25 LEFT
PS NO. 2 GROUND ELEV. 1019.50'
MILLER TANK NO. 1 32,882 GALLON GROUND ELEV. 1019.00' OVERFLOW ELEV. 1075.00'
40 LF COUNTY ROAD BORE WITH 14" PE CASING
160 LF 8" CERTA-LOK (YELOMINE, DR18)
EXIST. SS MH #3 TOP RIM=1015.36 FL=1009.53 (8" PVC N) FL=1009.53 (8" PVC E)
MATCH LINE
SANITARY SEWER MAIN B
MH # 3A, STA:16+03.80 HWY 65 STA. 580+44.42, 122.10 L CONSTRUCT 4' DIA. MH TOP RIM=1015.82 ℄ IN = 998.32 8" PVC (N) ℄ OUT = 998.12 8" PVC (S)
15" x 80 LF PVC CASING
40 LF COUNTY ROAD BORE WITH 14" PE CASING
UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING.
15" x 20 LF PVC CASING
1 – 8" x 45° BEND
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING 2" WATERLINE & HIGHWAY BORE TO BE ABANDONED
4" x 20 LF PVC CASING
2" PVC SDR 17 (466 LF)
1 – RECONNECT EX. METER W/ 10 LF SERVICE LINE
1 – RECONNECT EX. METER W/ 10 LF SERVICE LINE
MH # 5A, STA:20+19.46 HWY 65 STA. 584+79.70, 79.80 L CONSTRUCT 4' DIA. MH OVER EXISTING SEWER LINE TOP RIM=1020.81 ℄ IN = (EL. DEPENDS ON EXISTING SERVICE LINE) 4" PVC (NW) ℄ OUT = 1008.89 8" PVC (SE)
EXIST. 4" PVC
UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING.
12" x 20 LF STEEL CASING
EXISTING 4" SS TO BE ABANDONED IN PLACE
15" x 20 LF PVC CASING
203.32 L.F. 8" PVC (SDR-26)
8" PVC C900 DR 18 (296 LF)
EXIST. SS MH #5 TOP RIM=1019.68 FL=1015.81 (4" PVC NW) FL=1015.81 (8" PVC S)
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
MH # 4A, STA:18+16.14 HWY 65 STA. 582+74.25, 79.98 L CONSTRUCT 4' DIA. MH TOP RIM=1016.77 ℄ IN = 1008.08 8" PVC (NW) ℄ OUT = 1006.81 8" PVC (S)
212.34 L.F. 8" PVC (SDR-26)
REMOVE & ABANDON EX. F.H.
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING 8" SS TO BE ABANDONED IN PLACE
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
4" x 20 LF PVC CASING
2" PVC SDR 17
EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED
4" x 20 LF PVC CASING
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
4" x 20 LF PVC CASING
EXIST. SS MH #4 TOP RIM=1014.34 FL=1010.87 (8" PVC N) FL=1010.87 (8" PVC SW)
STORM SHELTER
PATIO
CANOPY
JAX PAINTING
HWY 65
ISOM LANE
MATCH LINE
REMOVED
R/W
℄

GRAPHIC SCALE IN FEET
50' 0 50'

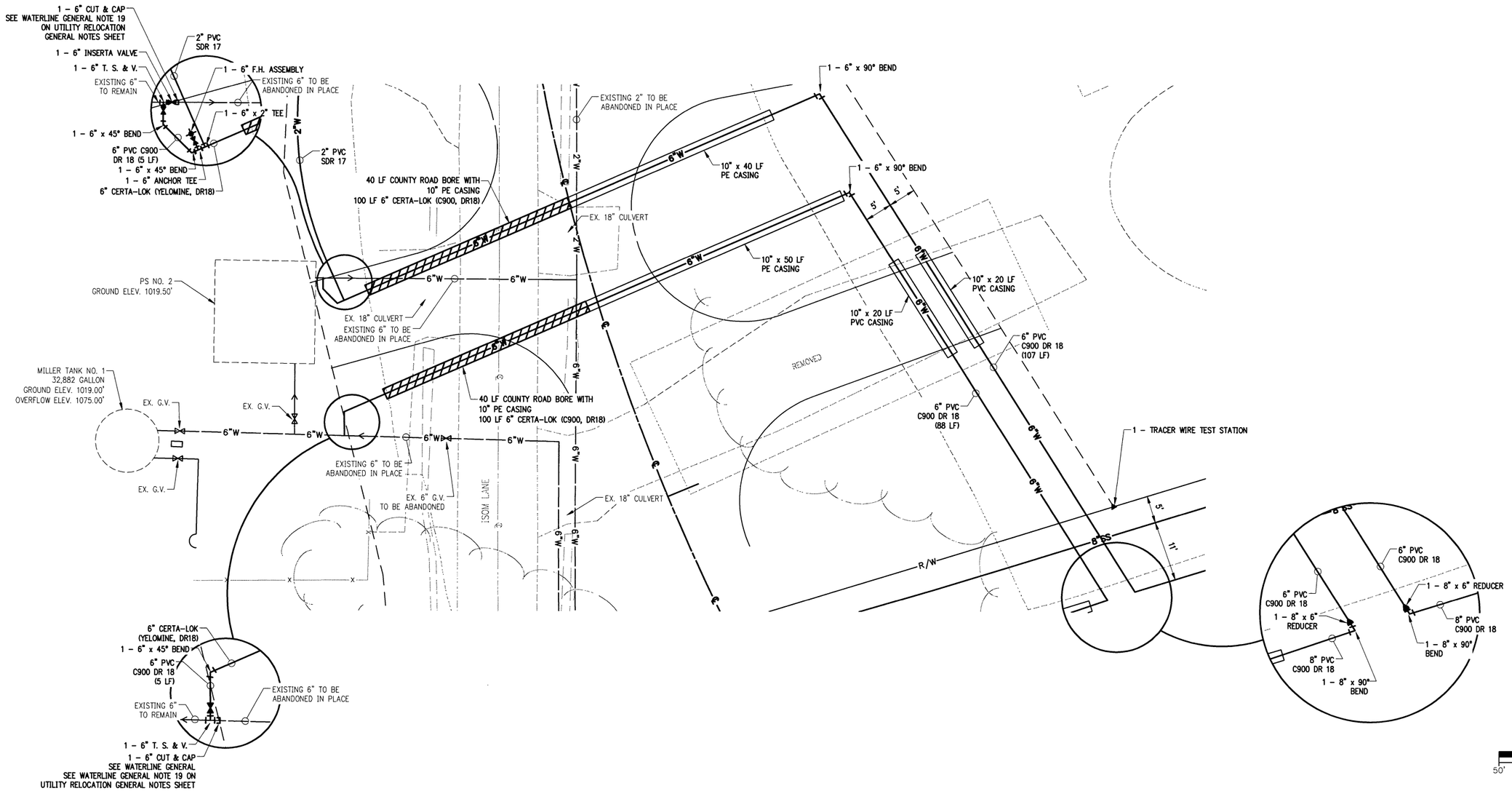
PUMP STATION NO. 2 UTILITY RELOCATION STA. 581+00 - 585+00

11/9/2018 11:07:11 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:07:11 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	194	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19820
HUBERT BURNS



GRAPHIC SCALE IN FEET
50' 0 50'

PUMP STATION NO. 2
UTILITY RELOCATION
STA. 581+25 LEFT

11/9/2018 11:07:30 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:07:30 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	195	665
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19620
HUBERT BURNS

MATCH LINE

1 – TRACER WIRE TEST STATION
1 – HWY CROSSING MARKER
1 – 8" x 6" TEE
8" PVC C900 DR 18
6" CERTA–LOK (YELOMINE, DR18)
8" PVC C900 DR 18
1 – VALVE MARKER
1 – 6" G.V.

4"SS
4"SS
15 x 20 LF PVC CASING
8" PVC C900 DR 18 (690 LF)
PATIO
R/W
8"W
PROPOSED R/W
CONST. LIMITS
EXISTING R/W
UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING
15 x 20 LF PVC CASING
14" x 20 LF STEEL CASING
EXISTING 8" TO BE ABANDONED IN PLACE
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXISTING 1" SERVICE LINE & BORE TO BE ABANDONED
STA 586+57
HIGHWAY BORE
150 LF HIGHWAY BORE WITH 10" PE CASING
160 LF 6" CERTA–LOK (YELOMINE, DR 18)
SEE UTILITY RELOCATION WATER HWY CROSSING (1 OF 8) SHEET
EXISTING 6" WATERLINE & HIGHWAY BORE TO BE ABANDONED
585
HWY 65
590
8" PVC C900 DR 18
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
EXISTING 8" TO BE ABANDONED IN PLACE
REMOVE & ABANDON EX. F.H.
CONST. LIMITS
4" x 30 LF PVC CASING
2"W
2" PVC SDR 17 (133 LF)
6"W
6" PVC C900 DR 18 (563 LF)
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
10" x 30 LF PVC CASING
EXISTING 6" TO BE ABANDONED IN PLACE
CANOPY
PROPOSED R/W
10" x 20 LF STEEL CASING
UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING
RETWALL
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXISTING 6" TO BE ABANDONED IN PLACE
PLANTER
STORM SHELTER
6" CERTA–LOK (YELOMINE, DR18)
1 – 6" G.V.
6" PVC C900 DR 18
2" PVC SDR 17
1 – 2" MIDCO COUPLING
1 – 2" THD. G.V. W/ 1 – 2" x 12" BRASS NIPPLE, MIP x MIP
1 – 2" x 12" BRASS NIPPLE, MIP x PE
1 – 6" x 2" TAPPED PLUG
1 – 6" TEE.
1 – VALVE MARKER
1 – TRACER WIRE TEST STATION
1 – HWY CROSSING MARKER
10" x 20 LF PVC CASING
6" PVC C900 DR 18
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 585+00 - 592+00

11/9/2018 11:07:46 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\171005300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:07:46 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	196	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9620
HUBERT BURNS

MATCH LINE

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

14" x 20 LF STEEL CASING

1 – 8" x 45° BEND

8"W

R/W

1 – TRACER WIRE TEST STATION

8" PVC C900 DR 18

1 – 8" x 45° BEND

EXISTING 8" TO BE ABANDONED IN PLACE

8" PVC C900 DR 18 (612 LF)

HWY 65

595

EXISTING 6" TO BE ABANDONED IN PLACE

6"W

6" PVC C900 DR 18

10" x 20 LF STEEL CASING

1 – 6" x 45° BEND

10" x 20 LF PVC CASING

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

1 – 6" x 45° BEND

10" x 20 LF STEEL CASING

ROCK WALL

RELOCATE EX. METER & BACKFLOW PREVENTER W/ 10 LF SERVICE LINE

10" x 30 LF PVC CASING

6" PVC C900 DR 18 (475 LF)

CONCRETE PAD

CLINTON MEAT PROCESSING

RET. WALL

STORM SHELTER

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 592+00 - 597+00

11/9/2018 11:08:00 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:08:00 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	197	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS

MATCH LINE

MATCH LINE

HWY 65

600

8" PVC C900 DR 18 (709 LF)

8" PVC C900 DR 18

1 - 8" x 22.5° BEND

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

1 - RELOCATE EX. METER W/ 10 LF SERVICE LINE

10" x 20 LF PVC CASING

10" x 20 LF STEEL CASING

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

6" PVC C900 DR 18 (689 LF)

1 - TRACER WIRE TEST STATION

STORM SHELTER

PLANTER

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 597+00 - 604+00

11/9/2018 11:08:13 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:08:13 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	198	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER HUBERT BURNS No. 9020 11-9-18

1 – TRACER WIRE TEST STATION
1 – HWY CROSSING MARKER
1 – 8" x 6" TEE
8" PVC C900 DR 18
1 – 6" G.V.
1 – VALVE MARKER
6" CERTA-LOK (YELOMINE, DR18)

1 – 8" x 45° BEND
1 – VALVE MARKER
1 – 8" AIR RELEASE VALVE ASSEMBLY SEE UTILITY DETAIL (7 OF 7) SHEET

8" PVC C900 DR 18 (546 LF)

1 – 8" x 22.5° BEND

EX. AIR RELEASE VALVE ASSEMBLY TO BE ABANDONED

EXISTING 8" TO BE ABANDONED IN PLACE

MATCH LINE

1 – TRACER WIRE TEST STATION
1 – 8" x 90° BEND
8" PVC C900 DR 18
1 – 8" INSERTA VALVE
EXISTING 8" TO BE ABANDONED IN PLACE
1 – VALVE MARKER
EXISTING 8" TO REMAIN
1 – 8" T. S. & V.
1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
8" PVC C900 DR 18

EXISTING 8" TO REMAIN

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

1 – 8" x 45° BEND

EXISTING 6" WATER LINE & HIGHWAY BORE TO BE ABANDONED

STA 608+66
HIGHWAY BORE
230 LF HIGHWAY BORE WITH 10" PE CASING
240 LF 6" CERTA-LOK (YELOMINE, DR18)
SEE UTILITY RELOCATION WATER HWY CROSSING (1 OF 8) SHEET

610

EXISTING 2" TO BE ABANDONED IN PLACE

4" x 20 LF PVC CASING

HWY 65

605

EXISTING 6" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

1 – 6" x 45° BEND

2" PVC SDR 17 (231 LF)

1 – 6" x 45° BEND

6" PVC C900 DR 18

6" CERTA-LOK (YELOMINE, DR18)
1 – VALVE MARKER
2" PVC SDR 17
1 –6" TEE
1 – 2" MIDCO COUPLING
1 – 2" THD. G.V. W/
1 – 2" x 12" BRASS NIPPLE, MIP x MIP
1 – 2" x 12" BRASS NIPPLE, MIP x PE
1 – 6" x 2" TAPPED PLUG
1 – TRACER WIRE TEST STATION
6" PVC C900 DR 18
1 – 6" G.V.
1 – HWY CROSSING MARKER

6" PVC C900 DR 18 (523 LF)

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 604+00 - 611+00

11/9/2018 11:08:29 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:08:29 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	199	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9640
11-9-18
HUBERT BURNS

MATCH LINE

INSTALL 14" x 20 LF STEEL CASING SEE DETAIL ON UTILITY DETAIL (7 OF 7) SHEET

STORM SHELTER

PATIO

RET. WALL

FENCE

EX. METER TO REMAIN EXACT LOCATION UNKNOWN

EXISTING 8" TO REMAIN

EXISTING 6" TO BE ABANDONED IN PLACE

1 – 8" x 6" T. S. & V.

EX. G.V. TO REMAIN

REMOVE & ABANDON EX. F.H.

1 – 6" F.H. ASSEMBLY

EXISTING R/W

BRUSH

HWY 65

615

MATCHLINE

EXISTING 2" TO BE ABANDONED IN PLACE

EX. BLOW OFF TO BE ABANDONED

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – TRACER WIRE TEST STATION

1 – 2" F.H. ASSEMBLY

2" PVC SDR 17 (258 LF)

4" x 20 LF PVC CASING

SIGN

POND

GATE

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 611+00 - 618+00

11/9/2018 11:08:43 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:08:43 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	2CO	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9020
HUBERT BURNS
12-18

MATCH LINE

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" T. S. & V.
1 – VALVE MARKER
1 – 8" INSERTA VALVE
EXISTING 8" TO REMAIN
1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

8" PVC C900 DR 18 (224 LF)

1 – TRACER WIRE TEST STATION
1 – 8" x 90° BEND

14" x 20 LF STEEL CASING
1 – 8" SOLID SLEEVE
8" CERTA-LOK (C900, DR 18) (40 LF)
1 – 8" SOLID SLEEVE

PROPOSED R/W
CONST. LIMITS
R/W
8"W
12'

EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE

620

HWY 65

BRUSH

8" PVC C900 DR 18 (407 LF)

PLANTER

15" x 50 LF PVC CASING 1200

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE

625

BOULDER STRING

1 – RELC

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 618+00 - 626+00

11/9/2018 11:08:56 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:08:56 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	201	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
HUBERT BURNS

MATCH LINE

2"

8" PVC C900 DR 18 (462 LF)

1 – TRACER WIRE TEST STATION

8"W

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

6"W

W/M

8" PVC C900 DR 18

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING.

14" x 20 LF STEEL CASING

R/W

MATCH LINE

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED

625+58
SERVICE LINE BORE
250 LF 2" SERVICE LINE BORE
260 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (2 OF 8) SHEET

HWY 65

1 – RELOCATE EX. METER

ROCK OUTCROPPING

BOULDER STRING

BOULDER STRING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 626+00 - 630+00

11/9/2018 11:09:09 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:09:09 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	262	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9020
HUBERT BURNS
11-9-18

MATCH LINE

1 – 8" x 45° BEND

8" PVC C900 DR 18 (672 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" x 45° BEND

15" x 20 LF PVC CASING

1 – 8" x 22.5° BEND

STORM SHELTER

8" PVC C900 DR 18

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

EXISTING 6" TO BE ABANDONED IN PLACE

630

HWY 65

635

ROCK OUTCROPPING

BEG OF ROCK OUTCROPPING

END OF ROCK OUTCROPPING

BRUSH

MATCH LINE

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 630+00 - 636+00

11/9/2018 11:09:22 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:09:22 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	203	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9020
HUBERT BURNS

MATCH LINE

1 – TRACER WIRE TEST STATION

8" PVC C900 DR 18 (712 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

8" PVC C900 DR 18

MATCH LINE

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

HWY 65

640

EXISTING 2" TO BE ABANDONED IN PLACE

BRUSH

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

ROCK OUTCROPPING

1 – 2" F.H. ASSEMBLY

1 – TRACER WIRE TEST STATION

2" PVC SDR 17 (465 LF)

4" x 20 LF PVC CASING

4" x 20 LF PVC CASING

2" PVC SDR 17

MOUNTAIN VIEW BAPTIST CHURCH

BRUSH

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 636+00 - 643+00

11/9/2018 11:09:36 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:09:36 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	204	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9820
11-9-18
HUBERT BURNS

MATCH LINE

R/W

1 – 8" x 45° BEND

8" PVC
C900 DR 18
(591 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

CONST. LIMITS

EXISTING R/W

PROPOSED R/W

1 – TRACER WIRE TEST STATION

8" PVC
C900 DR 18

1 – VALVE MARKER

1 – 8" G.V.

EX. G.V. TO BE ABANDONED IN PLACE

15" x 20 LF
PVC CASING

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 6" TO BE ABANDONED IN PLACE

MATCH LINE

645

HWY 65

1 – RELOCATE EX. METER
W/ 10 LF SERVICE LINE

EXISTING 2" TO BE ABANDONED IN PLACE

2" PVC
SDR 17
(579 LF)

4" x 20 LF
PVC CASING

EXISTING R/W

CONST. LIMITS

EXISTING 2" TO BE ABANDONED IN PLACE

GATE

BRUSH

PROPOSED R/W

2" PVC
SDR 17

2" PV
SDR 1
(29 LI

1 – 2" MID
COUPLI

80 LF COUN

1C

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 643+00 - 649+00

11/9/2018 11:09:49 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:09:49 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	265	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9020
HUBERT BURNS

MATCH LINE

8" PVC C900 DR 18 (614 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

BRUSH

EXISTING 6" TO BE ABANDONED IN PLACE

EXISTING 3" WATERLINE & HIGHWAY BORE TO BE ABANDONED

650

STA 650+33
HIGHWAY BORE
170 LF HIGHWAY BORE WITH 6" PE CASING
180 LF 3" CERTA-LOK (YELOMINE, SDR 17)
SEE UTILITY RELOCATION WATER HWY CROSSING (2 OF 8) SHEET

HWY 65

EXISTING 2" TO BE ABANDONED IN PLACE

SIGN

2" PVC SDR 17 (29 LF)

1 – 2" MIDCO COUPLING

80 LF COUNTY ROAD BORE WITH 6" PE CASING
100 LF 2" CERTA-LOK (YELOMINE, SDR17)

HENDERSON ROAD

1 – TRACER WIRE TEST STATION
1 – 8" G.V.
1 – HWY CROSSING MARKER
1 – 8" x 3" TEE
1 – 3" G.V.
1 – VALVE MARKER
8" PVC C900 DR 18
3" CERTA-LOK (YELOMINE, DR18)

15" x 20 LF PVC CASING

SIGN

1 – TRACER WIRE TEST STATION
1 – 6" F.H. ASSEMBLY
1 – 6" x 6" ANCHOR TEE
8" PVC C900 DR 18
1 – 8" x 90° BEND
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON SHEET UTILITY RELOCATION GENERAL NOTES
1 – 8" T. S. & V.
EXISTING 8" TO REMAIN
EXISTING 8" TO BE ABANDONED IN PLACE
15" x 20 LF PVC CASING
8" PVC C900 DR 18
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE

655

MATCH LINE

3" CERTA-LOK (YELOMINE, SDR 17)
1 – VALVE MARKER
1 – HWY CROSSING MARKER
1 – 3" x 2" TEE
1 – TRACER WIRE TEST STATION
2" CERTA-LOK (YELOMINE, SDR 17)
1 – 2" G.V.
3" PVC SDR 17
EXISTING 3" TO BE ABANDONED IN PLACE
3" PVC SDR 17 (263 LF)

1 – 3" CUT & CAP
SEE WATERLINE GENERAL NOTE 19
UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 3" TO BE ABANDONED IN PLACE
1 – CUT IN 3" TEE
1 – VALVE MARKER
1 – 3" F.H. ASSEMBLY
3" PVC SDR 17
1 – 3" ANCHOR TEE
1 – 3" G.V.
1 – 3" SOLID SLEEVE
EXISTING 3" TO REMAIN
3" PVC SDR 17
1 – TRACER WIRE TEST STATION
1 – 8" x 90° BEND

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 649+00 - 655+00

11/9/2018 11:10:06 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:10:06 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	206	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9820
HUBERT BURNS

MATCH LINE

POND

BRUSH

EXISTING 8" TO REMAIN

EXISTING 6" TO BE ABANDONED IN PLACE

R/W

8"W

6"W

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

CONST. LIMITS

HWY 65

660

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 2" TO BE ABANDONED IN PLACE

2"W

GATE

CATTLE GUARD

1 – 2" F.H. ASSEMBLY

1 – TRACER WIRE TEST STATION

2" PVC SDR 17 (422 LF)

PROPOSED R/W

2" PVC SDR 17

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 655+00 - 662+00

11/9/2018 11:10:19 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:10:19 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	207	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19820
HUBERT BURNS

MATCH LINE

EXISTING G.V.
EXISTING 8" TO REMAIN
1 – 6" CUT & CAP
SEE WATERLINE GENERAL
NOTE 19 ON UTILITY RELOCATION
GENERAL NOTES SHEET
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING G.V. TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE

1 – 8" CUT & CAP
SEE WATERLINE GENERAL
NOTE 19 ON UTILITY RELOCATION
GENERAL NOTES SHEET
1 – 8" INSERTA VALVE
1 – 8" T. S. & V.
EXISTING 8" TO REMAIN
1 – TRACER WIRE TEST STATION
EXISTING 8" TO BE ABANDONED IN PLACE
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
1 – 8" x 3" TEE
1 – HWY CROSSING MARKER
1 – 3" G.V.
8" PVC C900 DR 18
1 – 8" x 90° BEND
3" CERTA-LOK (YELOMINE, SDR 17)

ZEKE TANK NO. 2
32,882 GALLON
GROUND ELEV. 1294.00'
OVERFLOW ELEV. 1350.00'
PS NO. 3
ELEV. 1294.00'
OPEN STORAGE
EXISTING 8" TO REMAIN
EXISTING 6" TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE
EXISTING R/W
15" x 20 LF PVC CASING
8" PVC C900 DR 18 (344 LF)
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXISTING 8" TO BE ABANDONED IN PLACE
8" PVC C900 DR 18
EXISTING 4" TO BE ABANDONED IN PLACE
MATCH LINE PROP65
HWY 65
STA 664+54
HIGHWAY BORE
130 LF HIGHWAY BORE WITH
6" PE CASING
140 LF 3" CERTA-LOK (YELOMINE, SDR17)
SEE UTILITY RELOCATION WATER
HWY CROSSING (2 OF 8) SHEET
EXISTING 3" WATERLINE & HIGHWAY BORE TO BE ABANDONED
1 – RECONNECT EX. METER W/ 10 LF SERVICE LINE
EXISTING 2" TO BE ABANDONED IN PLACE
BRUSH
2" PVC SDR 17 (209 LF)
4" x 20 LF PVC CASING
SHRUBS
REMOVED
CONCRETE PAD
RUINS
3" PVC C900 DR 18 (220 LF)
NATURAL BRIDGE ROAD
EXISTING 3" TO BE ABANDONED IN PLACE
3" CERTA-LOK (YELOMINE, SDR 17)
1 – 3" x 2" TEE
1 – VALVE MARKER
2" PVC SDR 17
1 – 2" G.V.
3" PVC SDR 17
1 – TRACER WIRE TEST STATION
1 – HWY CROSSING MARKER
6" x 20 LF PVC CASING
CUT & GRAVEL REPLACE 4.44 C.Y.
EXISTING 3" TO BE ABANDONED IN PLACE
1 – 3" CUT & CAP
SEE WATERLINE GENERAL
NOTE 19 ON UTILITY RELOCATION
GENERAL NOTES SHEET
1 – 3" CUT IN TEE
3" PVC SDR 17
1 – 3" G.V.
1 – VALVE MARKER
1 – 3" SOLID SLEEVE
EXISTING 3" TO REMAIN
1 – 3" x 90° BEND
1 – TRACER WIRE TEST STATION
EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED
1 – RELOCATE EX. METER
70 LF 2" COUNTY ROAD SERVICE LINE BORE
90 LF 1" SERVICE LINE

GRAPHIC SCALE IN FEET
50' 0 50'

PUMP STATION NO. 3
UTILITY RELOCATION
STA. 663+00 - 668+00

11/9/2018 11:10:37 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:10:37 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	CA0801	208605		
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9620
HUBERT BURNS

MATCH LINE

MATCH LINE

8" PVC
C900 DR 18
(244 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

1 – TRACER WIRE TEST STATION

1 – 8" x 90° BEND

8" PVC
C900 DR 18

1 – 8" INSERTA VALVE

1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" T. S. & V.

EXISTING 8" TO REMAIN

14" x 40 LF STEEL CASING

EXISTING 4" TO BE ABANDONED IN PLACE

PROPOSED R/W

OPEN STORAGE

R/W

EXISTING R/W

BRUSH

6 ROCK STEPS

GATE

EXISTING 8" TO REMAIN

EXISTING 4" TO BE ABANDONED IN PLACE

670

675

HWY 65

POND

8"W

4"W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 668+00 - 675+00

11/9/2018 11:10:53 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:10:53 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	209	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9625
HUBERT BURNS
11-9-18

MATCH LINE

OPEN STORAGE

EXISTING 8" TO REMAIN

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 4" TO BE ABANDONED IN PLACE

PROPOSED R/W

CONST. LIMITS

GATE

EX. 8" G.V. TO REMAIN

EX. F.H. TO REMAIN

680

HWY 65

STORAGE

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 675+00 - 682+00

11/9/2018 11:11:06 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:11:06 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	210	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9680
HUBERT BURNS

CONCRETE PAD

CULTIVATED FIELD

MATCH LINE

MATCH LINE

1 – TRACER WIRE TEST STATION
1 – 8" x 90° BEND
8" PVC C900 DR 18
1 – 8" T. S. & V.
EXISTING 8" TO REMAIN
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 8" TO BE ABANDONED IN PLACE

15" x 20 LF PVC CASING

8" PVC C900 DR 18 (272 LF)

8" PVC C900 DR 18

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER

EXISTING 4" TO BE ABANDONED IN PLACE

GATE

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

685

HWY 65

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED

STA 686+49
SERVICE LINE BORE
160 LF 2" SERVICE LINE BORE
170 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (3 OF 8) SHEET

1 – RELOCATE EX. METER

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

BRUSH

BRUSH

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 682+00 - 689+00

11/9/2018 11:11:21 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:11:21 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	211	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 06610
HUBERT BURNS
11/9/18

MATCH LINE

UNNAMED TRIBUTARY OF ARCHEY CREEK CROSSING

BRUSH

14" x 20 LF STEEL CASING

8" PVC C900 DR 18 (428 LF)

8" PVC C900 DR 18

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

R/W

8"W

4"W

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

HWY 65

690

MATCH LINE

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 689+00 - 695+00

11/9/2018 11:11:34 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:11:34 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	212	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9648
HUBERT BURKS
11-9-18

MATCH LINE

PROPOSED R/W

1 – TRACER WIRE TEST STATION

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

8" PVC C900 DR 18 (698 LF)

1 – 8" x 6" ANCHOR TEE

1 – 6" F.H. ASSEMBLY

15" x 20 LF PVC CASING

REMOVE & ABANDON EX. F.H.

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

EX. 4" G.V. TO BE ABANDONED

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – 8" G.V.

1 – VALVE MARKER

15" x 20 LF PVC CASING

15" x 20 LF PVC CASING

15" x 20 LF PVC CASING

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

8" PVC C900 DR 18

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED

STA 699+00
SERVICE LINE BORE
160 LF 2" SERVICE LINE BORE
170 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (3 OF 8) SHEET

1 – RELOCATE EX. METER

MATCH LINE

695

700

HWY 65

RUINS

CANOPY

RET. WALL

DECK REMOVED

CONCRETE PAD

R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 695+00 - 701+00

11/9/2018 11:11:47 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:11:47 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	2/3	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9670
HUBERT BURNS
11-9-18

MATCH LINE

SWAMP

1 – 8" x 6" ANCHOR TEE
1 – 6" F.H. ASSEMBLY
REMOVE & ABANDON EX. F.H.
8" PVC C900 DR 18 (578 LF)
15" x 20 LF PVC CASING
15" x 20 LF PVC CASING
1 – TRACER WIRE TEST STATION
15" x 20 LF PVC CASING
1 – VALVE MARKER
1 – 8" G.V.
15" x 20 LF PVC CASING
8" PVC C900 DR 18

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE
EX. 8" G.V. TO BE ABANDONED
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
15" x 20 LF PVC CASING

BRUSH
STORM SHELTER
OPEN STORAGE
OPEN STORAGE
GATE
MATCH LINE
BRUSH

HWY 65
705
R/W
R/W
R/W
R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 701+00 - 706+00
11/9/2018 11:12:00 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:12:00 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	2/4	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 15620
11-8-18
HUBERT BURNS

MATCH LINE

8" PVC C900 DR 18 (736 LF)

15" x 20 LF PVC CASING

8" PVC C900 DR 18

15" x 20 LF PVC CASING

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

HWY 65

710

BIG GUN ROAD

MATCH LINE

R/W

8"W

4"W

BRUSH

SIGN

CANOPY

OPEN STORAGE

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 706+00 - 713+00

11/9/2018 11:12:13 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:12:13 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	215	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
No. 9020
HUBERT BURNS

MATCH LINE

8" PVC C900 DR 18
1 – 8" x 4" TEE
1 – 8" G.V.
1 – VALVE MARKER
4" PVC C900 DR 18
1 – 4" x 45° BEND
1 – 4" INSERTA VALVE
1 – 4" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
1 – 4" T. S. & V.
1 – TRACER WIRE TEST STATION
EXISTING 4" WATERLINE TO REMAIN
EXISTING 4" TO BE ABANDONED IN PLACE
8" PVC C900 DR 18 (677 LF)
STORM SHELTER
EXISTING 8" TO BE ABANDONED IN PLACE
EX. 4" G.V. TO BE ABANDONED
EXISTING 4" TO BE ABANDONED IN PLACE
EX. 4" G.V. TO BE ABANDONED
REMOVE & ABANDON EX. F.H.
GLENN ROAD
GRAYSTONE RD
GLENN ROAD
501
502
503
15" x 100 LF PVC CASING
1 – 2" x 90° BEND
EXISTING 2" WATERLINE TO REMAIN
EXISTING 4" TO BE ABANDONED IN PLACE
1 – 2" TAPPING SLEEVE AND VALVE ASSEMBLY SEE DETAIL ON UTILITY DETAIL (2 OF 7) SHEET
2" PVC SDR 17
1 – VALVE MARKER
1 – 2" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
2" PVC SDR 17
1 – 2" x 45° BEND
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
1 – 2" x 12" BRASS NIPPLE, MIP x PE
2" PVC SDR 17 (171 LF)
1 – 8" x 2" TAPPED TEE
8" PVC C900 DR 18
715/503+52.90
HWY 65
BRUSH
BRUSH
R/W
8" PVC C900 DR 18
15" x 30 LF PVC CASING
1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE
DECK
GATE
MATCH LINE
720
BIG GUN ROAD
PROPANE
R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 713+00 - 720+00

11/9/2018 11:12:31 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:12:31 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	216	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

MATCH LINE

GATE

8" PVC C900 DR 18 (676 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 4" TO BE ABANDONED IN PLACE

STA 721+25
SERVICE LINE BORE
EXACT LOCATION OF EXISTING METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION OF METER BEFORE INSTALLATION OF BORE
140 LF 2" SERVICE LINE BORE
150 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (4 OF 8) SHEET

EXISTING 1" SERVICE LINE & BORE TO BE ABANDONED EXACT LOCATION UNKNOWN

1 – RECONNECT EX. METER
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

720

HWY 65

725

POND

POND

1 – TRACER WIRE TEST STATION

STA 725+30
SERVICE LINE BORE
160 LF 2" SERVICE LINE BORE
170 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (4 OF 8) SHEET

EXISTING 1" SERVICE LINE & BORE TO BE ABANDONED

1 – RELOCATE EX. METER

15" x 30 LF PVC CASING

HEMING ROAD

1 – 8" G.V.

8" PVC C900 DR 18

1 – 8" x 6" ANCHOR TEE

1 – 6" F.H. ASSEMBLY

EXISTING 8" TO BE ABANDONED IN PLACE

EX. 8" G.V. TO BE ABANDONED

REMOVE & ABANDON EX. F.H.

EXISTING 4" TO BE ABANDONED IN PLACE

MATCH LINE

PROPOSED R/W

EXISTING R/W

CONST. LIMITS

R/W

BOTKINBURG FIRE DEPT

INDEPENDENT PROPANE

SUBURBAN PROPANE

TANK

SHED

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 720+00 - 726+00

11/9/2018 11:12:44 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:12:44 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	217	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
NO. 9010
HUBERT BURNS
11/9/18

30 LF
ASING

MATCH LINE

AMING ROAD

DECK

2'

8" PVC
C900 DR 18
(684 LF)

8"W

R/W

1 – RELOCATE EX. METER
W/ 10 LF SERVICE LINE

EXISTING 8" TO BE
ABANDONED IN PLACE

4"W

EXISTING 4" TO BE
ABANDONED IN PLACE)

HWY 65

730

POND

1 – 8" x 45° BEND

8" PVC
C900 DR 18

1 – 8" x 45°
BEND

MATCH LINE

EXISTING 8" TO BE
ABANDONED IN PLACE

EXISTING 4" TO BE
ABANDONED IN PLACE

PROPOSED R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 726+00 - 734+00

11/9/2018 11:12:58 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:12:58 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	218	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

CANOPY

8" PVC C900 DR 18 (693 LF)

PROPOSED R/W

EXISTING 8" TO BE ABANDONED IN PLACE

15" x 30 LF PVC CASING

1 – 8" x 45° BEND

1 – TRACER WIRE TEST STATION
1 – 8" G.V.
8" PVC C900 DR 18
1 – HWY CROSSING MARKER
1 – 8" x 4" TEE
1 – 8" G.V.
8" PVC C900 DR 18
1 – 4" G.V.
1 – VALVE MARKER
4" CERTA-LOK (YELOMINE, DR18)

1 – 8" x 45° BEND

2 – EX. 8" G.V.'S TO BE ABANDONED
EX. X" G.V. TO BE ABANDONED
EXISTING ?" TO BE ABANDONED IN PLACE

CONST. LIMITS

8" PVC C900 DR 18

MATCH LINE

735

EXISTING 4" WATERLINE & HIGHWAY BORE TO BE ABANDONED

STA 736+05
HIGHWAY BORE
160 LF HIGHWAY BORE WITH 8" PE CASING
180 LF 4" CERTA-LOK (YELOMINE, SDR 17)
SEE UTILITY RELOCATION WATER HWY CROSSING (5 OF 8) SHEET

EXISTING 4" TO BE ABANDONED IN PLACE

HWY 65

740

REMOVE & ABANDON EX. F.H.

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

4" PVC SDR 17 (440 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 4" TO BE ABANDONED IN PLACE

? – 1 – RELOCATE EX. METER W/ 50 LF SERVICE LINE

GATE

FAYETTE ROAD

EXISTING 3" TO BE ABANDONED IN PLACE

8" x 20 LF PVC CASING

2" x 40 LF PVC CASING

3" PVC SDR 17

4" CERTA-LOK (YELOMINE, SDR 17)
1 – 4" ANCHOR TEE
1 – 4" TEE
1 – 4" x 3" REDUCER
1 – 3" G.V.
1 – 4" F.H. ASSEMBLY
EXISTING 3" TO BE ABANDONED IN PLACE
1 – 4" G.V.
4" PVC SDR 17
1 – TRACER WIRE TEST STATION
1 – HWY CROSSING MARKER
3" PVC SDR 17

8" x 30 LF PVC CASING

PATIO

4" PVC SDR 17

REMOVED RUINS

END ROCK OUTCROPPING

BEGIN ROCK OUTCROPPING

EXISTING 3" TO BE ABANDONED IN PLACE

3" PVC SDR 17 (53 LF)
1 – 3" x 90° BEND
1 – 3" G.V.
1 – VALVE MARKER
1 – 3" CUT IN TEE
1 – 3" SOLID SLEEVE
1 – 3" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
1 – 3" CUT IN G.V.
1 – TRACER WIRE TEST STATION
EXISTING 3" TO REMAIN

END ROCK OUTCROPPING

BEGIN ROCK OUTCROPPING

BEGIN BOULDER STRING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 734+00 - 740+00

11/9/2018 11:13:14 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:13:14 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	2/9	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

R/W

8" PVC
C900 DR 18
(700 LF)

8"W

EXISTING 8" TO BE
ABANDONED IN PLACE

1 – 8" x 45° BEND

EXISTING R/W

14" x 20 LF
STEEL CASING

1 – TRACER WIRE TEST STATION

8" PVC
C900 DR 18

14" x 20 LF
STEEL CASING

MATCH LINE

EXISTING 8" TO BE
ABANDONED IN PLACE

HWY 65

745

4"W

EXISTING 4" TO BE
ABANDONED IN PLACE

4" PVC
SDR 17
(689 LF)

8" x 30 LF
PVC CASING

EXISTING 4" TO BE
ABANDONED IN PLACE

SIGN

8" x 20 LF
STEEL CASING

8" x 20 LF
STEEL CASING

1 – TRACER WIRE TEST STATION

4" PVC
SDR 17

BEGIN ROCK OUTCROPPING

BEGIN BOULDER STRING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 740+00 - 747+00

11/9/2018 11:13:27 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWGS\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:13:27 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	220	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

8" PVC C900 DR 18 (500 LF)

1 – 8" x 45° BEND

EXISTING 8" TO BE ABANDONED IN PLACE

8"W — R/W — 8"W

1 – 8" x 45° BEND

1 – TRACER WIRE TEST STATION
1 – VALVE MARKER
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 8" TO BE ABANDONED IN PLACE
1 – 8" x 45° BEND
8" PVC C900 DR 18
1 – 8" T. S. & V.
EXISTING 8" TO REMAIN

8" PVC C900 DR 18
1 – TRACER WIRE TEST STATION
1 – 8" x 45° BEND
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
EXISTING 8" TO REMAIN
1 – 8" T. S. & V.
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 8" TO BE ABANDONED IN PLACE

PS No. 4

EX. G.V.'S NORMALLY ON

EX. 8" G.V. NORMALLY OFF

8" PVC C900 DR 18 (176 LF)

1 – 8" x 45° BEND

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 8" TO BE ABANDONED IN PLACE

MATCH LINE

HWY 65

750

SIGN

EXISTING 4" TO BE ABANDONED IN PLACE

4"W — R/W — 4"W

4" PVC SDR 17 (683 LF)

BEGIN ROCK OUTCROPPING

END ROCK OUTCROPPING

END BOULDER STRING

BEGIN BOULDER STRING

8" x 20 LF STEEL CASING

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17

OLD DIRT ROAD

GRAPHIC SCALE IN FEET
50' 0 50'

PUMP STATION NO. 4
UTILITY RELOCATION
STA. 747+00 - 754+00

11/9/2018 11:13:44 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:13:44 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	221	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

1 – VALVE MARKER
1 – 8" AIR RELEASE VALVE ASSEMBLY
SEE UTILITY DETAIL (7 OF 7) SHEET

8" PVC
C900 DR 18
(691 LF)

1 – 8" x 45° BEND

1 –8" x 45° BEND

1 – 8" x 45° BEND

EX. AIR RELEASE VALVE
TO BE ABANDONED

EXISTING 8" TO BE
ABANDONED IN PLACE

OLD WELL

1 – RELOCATE EX. METER
W/ 10 LF SERVICE LINE
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY
EX. LOCATION BEFORE INSTALLATION

15" x 30 LF
PVC CASING

1 – 8" x 45° BEND

1 – 8" x 45° BEND

8" PVC
C900 DR 18

MATCH LINE

EXISTING 8" TO BE
ABANDONED IN PLACE

1400

755

HWY 65

760

EXISTING 4" TO BE
ABANDONED IN PLACE

4" PVC
SDR 17
(675 LF)

8" x 20 LF
STEEL CASING

1 – TRACER WIRE
TEST STATION

8" x 20 LF
STEEL CASING

EXISTING 4" TO BE
ABANDONED IN PLACE

4" PVC
SDR 17

BEGIN ROCK OUTCROPPING

CAVE ENTRANCE

END ROCK OUTCROPPING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 754+00 - 761+00

11/9/2018 11:13:58 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:13:58 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	222	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

R 18

R/W

2'

8"W

8" PVC C900 DR 18 (348 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

BRUSH

EXISTING 8" TO REMAIN

1 – 8" x 45° BEND

1 – 8" T. S. & V.

1 – VALVE MARKER

1 – 8" INSERTA VALVE

1 – 8" CUT & CAP

SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

EXISTING 8" TO BE ABANDONED IN PLACE

1 – TRACER WIRE TEST STATION

8" PVC C900 DR 18

EX. 8" G.V.

EXISTING 8" TO REMAIN

EXISTING 4" TO REMAIN

1 – 4" T. S. & V.

1 – VALVE MARKER

1 – 4" INSERTA VALVE

1 – 4" CUT & CAP

SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 4" x 90° BEND

1 – HWY CROSSING MARKER

EXISTING 4" TO BE ABANDONED IN PLACE

1 – TRACER WIRE TEST STATION

PARK TANK NO. 3 (OFF LINE) 42,277 GALLON GROUND ELEV. 1423.00' OVERFLOW ELEV. 1495.00'

1" SERVICE LINE

8" PVC C900 DR 18

1 – 8" x 45° BEND

1 – 6" F.H. ASSEMBLY

EXISTING 1" SERVICE LINE TO BE ABANDONED IN PLACE

1 – 8" x 6" ANCHOR TEE

1 – 8" T. S. & V.

1 – 8" INSERTA VALVE

EXISTING 8" TO REMAIN

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" CUT & CAP

SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 8" x 45° BEND

8" PVC C900 DR 18 (181 LF)

1 – TRACER WIRE TEST STATION

2 – RECONNECT EX. METERS W/ 15 LF SERVICE LINE EACH

2 – EX. 8" G.V.S

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 8" TO REMAIN

STA 765+50
HIGHWAY BORE
160 LF HIGHWAY BORE WITH 8" PE CASING
170 LF 4" CERTA-LOK (YELOMINE, SDR 17)
SEE UTILITY RELOCATION WATER HWY CROSSING (5 OF 8) SHEET

765

EXISTING 1" SERVICE LINE & BORE TO BE ABANDONED

HWY 65

EXISTING 4" WATERLINE & HIGHWAY BORE TO BE ABANDONED

EXISTING 4" TO BE ABANDONED IN PLACE

REMOVE & ABANDON EX. F.H.

2 – EX. 4" G.V.S TO BE ABANDONED

4"W

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

4" PVC SDR 17

EXISTING 4" TO BE ABANDONED IN PLACE

REST AREA

8" x 30 LF PVC CASING

4" PVC SDR 17 (678 LF)

POND

CONCRETE PAD

8" x 30 LF PVC CASING

1 – 4" F.H. ASSEMBLY

1 – 4" ANCHOR TEE

1 – 4" TEE

1 – 4" G.V.

RET/WALL

4" PVC C900 DR 18

1 – 4" G.V.

1 – TRACER WIRE TEST STATION

1 – HWY CROSSING MARKER

DECK

TANK

EXISTING R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 761+00 - 767+00

11/9/2018 11:14:15 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:14:15 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	223	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

8" PVC C900 DR 18 (684 LF)

PROPOSED R/W

2'

R/W

8"W

CONST. LIMITS

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING R/W

1 – 8" x 45° BEND

15" x 20 LF PVC CASING

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

1 – 8" x 45° BEND

1 – 8" x 45° BEND

14" x 20 LF STEEL CASING

1 – 8" x 45° BEND

8" PVC C900 DR 18 (358 LF)

1 – 8" x 45° BEND

EXISTING 8" TO BE ABANDONED IN PLACE

770

HWY 65

EXISTING 4" TO BE ABANDONED IN PLACE

4"W

BRUSH

OLD DIRT ROAD

CONST. LIMITS

PROPOSED R/W

8" x 30 LF PVC CASING

4" PVC SDR 17 (679 LF)

END ROCK OUTCROPPING

END BOULDER STRING

BEGIN ROCK OUTCROPPING

BEGIN BOULDER STRING

BEGIN ROCK OUTCROPPING

END ROCK OUTCROPPING

8" x 20 LF STEEL CASING

8" x 20 LF STEEL CASING

4" PVC SDR 17

BEGIN BOULDER STRING

END BOULDER STRING

BEGIN ROCK OUTCROPPING

END ROCK OUTCROPPING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 767+00 - 774+00

11/9/2018 11:14:28 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:14:28 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	224	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

1 – TRACER WIRE TEST STATION

8" PVC C900 DR 18 (679 LF)

15" x 20 LF PVC CASING

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

REMOVE & ABANDON EX. F.H.

1 –8" x 6" ANCHOR TEE

1 – 6" F.H. ASSEMBLY

15" x 30 LF PVC CASING

8" PVC C900 DR 18

EXISTING 8" TO BE ABANDONED IN PLACE

775

HWY 65

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED

EXISTING 4" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED

780

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17 (680 LF)

1 – TRACER WIRE TEST STATION

RUINS

BRUSH

RUINS

BRUSH

8" x 20 LF PVC CASING

4" PVC SDR 17

8" x 20 LF PVC CASING

OPEN STORAGE

ROCK OUTCROPPING

BEG BOULDER STRING

END BOULDER STRING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 774+00 - 781+00

11/9/2018 11:14:41 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:14:41 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	225	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

8" PVC C900 DR 18 (211 LF)

15" x 20 LF PVC CASING

1 – 8" SOLID SLEEVE

120 LF SWAMP BORE WITH 14" PE CASING 140 LF 8" CERTA-LOK (YELOMINE, SDR17)

1 – 8" SOLID SLEEVE

8" PVC C900 DR 18 (286 LF)

1 – TRACER WIRE TEST STATION

15" x 20 LF PVC CASING

MATCH LINE

SWAMP

RET. WALL

CONCRETE PAD

CONST. LIMITS

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

HEADWALL

HEADWALL

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

90 LF EXISTING SERVICE LINE BORE TO BE ABANDONED
100 LF EXISTING 1" SERVICE LINE TO BE ABANDONED

785

HWY 65

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 4" TO BE ABANDONED IN PLACE

1 – 4" F.H. ASSEMBLY

4" PVC SDR 17 (607 LF)

1 – 4" ANCHOR TEE REMOVE & ABANDON EX. F.H.

8" x 20 LF PVC CASING

DECK

8" x 30 LF PVC CASING

1 – TRACER WIRE TEST STATION

8" x 30 LF PVC CASING

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

OPEN STORAGE

OPEN STORAGE

GRAPHIC SCALE IN FEET
50' 0 50'

1"=50'

UTILITY RELOCATION
STA. 781+00 - 787+00

11/9/2018 11:14:55 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:14:55 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	226605	
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

EXISTING 8" TO BE ABANDONED IN PLACE

8" PVC C900 DR 18 (676 LF)

PROPOSED R/W

2'

8"W — R/W — 8"W

BRUSH

SWAMP

RUINS

8" PVC C900 DR 18

15" x 20 LF PVC CASING

EXISTING 8" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

790

HWY 65

EXISTING 4" TO BE ABANDONED IN PLACE

4"W — R/W

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

EXISTING 4" TO BE ABANDONED IN PLACE

LIMITS

4" PVC SDR 17 (507 LF)

8" x 20 LF PVC CASING

POND

REMOVED

RET. WALL

CONCRETE PAD

8" x 20 LF PVC CASING

4" PVC SDR 17

8" x 40 LF PVC CASING

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 787+00 - 794+00

11/9/2018 11:15:08 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:15:08 AM SCALE:

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	227605	

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

795

800

HWY 65

LUBERGATE ROAD

TANK

DECK

RUINS

BRUSH

CONCRETE PAD

BILLBOARD

SIGN

8" PVC C900 DR 18 (562 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

8" x 20 LF PVC CASING

8" PVC C900 DR 18

EX. 8" G.V. TO BE ABANDONED

15" x 30 LF PVC CASING

REMOVE & ABANDON EX. F.H.

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 2" WATERLINE & HIGHWAY BORE TO BE ABANDONED

1 – TRACER WIRE TEST STATION
1 – 8" x 2" TAPPED TEE
1 – 8" G.V.
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
8" PVC C900 DR 18
1 – 2" x 12" BRASS NIPPLE MIP x PE
1 – 2" x 90° BEND
8" PVC C900 DR 18
EXISTING 2" TO REMAIN
1 – 2" MIDCO COUPLING
1 – 2" CUT IN TAPPED TEE.
1 – 2" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 2" TO BE ABANDONED IN PLACE
1 – 2" THD. G.V. W/
1 – 2" x 12" BRASS NIPPLE, MIP x MIP
1 – 2" x 12" BRASS NIPPLE, MIP x PE

EXISTING 4" TO BE ABANDONED IN PLACE

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

8" x 20 LF PVC CASING

8" x 20 LF PVC CASING

8" x 40 LF PVC CASING

4" PVC SDR 17 (666 LF)

4" PVC SDR 17

REMOVED

RUINS REMOVED

BEGIN ROCK OUTCROPPING

BEGIN BOULDER STRING

CONST. LIMITS

PROPOSED R/W

EXISTING R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 794+00 - 800+00

11/9/2018 11:15:23 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:15:23 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	228	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

BRUSH

8" PVC C900 DR 18 (586 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

8"W R/W PROPOSED R/W

P/W

EXISTING R/W

CONST. LIMITS

SIGN

15" x 20 LF PVC CASING

8" PVC C900 DR 18 (586 LF)

1 - 8" x 45° BEND

MATCH LINE

BRUSH

EXISTING 8" TO BE ABANDONED IN PLACE

HWY 65

805

EXISTING 4" TO BE ABANDONED IN PLACE

END ROCK OUTCROPPING

105'

4" PVC SDR 17 (579 LF)

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17

R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 800+00 - 806+00

11/9/2018 11:15:37 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:15:37 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	229	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

1 – 8" x 45° BEND

2'

8"W

8" PVC C900 DR 18 (692 LF)

R/W

UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING

1 – TRACER WIRE TEST STATION

14" x 20 LF STEEL CASING

1 – 8" x 45° BEND

8" PVC C900 DR 18

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING R/W

810

HWY 65

EXISTING 4" TO BE ABANDONED IN PLACE

4"W

4" PVC SDR 17 (682 LF)

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

REMOVE & ABANDON EX. F.H.

1 – 4" F.H. ASSEMBLY

1 – 4" ANCHOR TEE

8" x 20 LF STEEL CASING

1 – TRACER WIRE TEST STATION

UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING

FAIRFAX ROAD

8" x 30 LF PVC CASING

4" PVC SDR 17

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 806+00 - 813+00

11/9/2018 11:15:50 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:15:50 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	230	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

R/W

PROPOSED R/W

CONST. LIMITS

8" PVC C900 DR 18 (683 LF)

1 – 8" x 45° BEND

EXISTING 8" TO BE ABANDONED IN PLACE

15" x 20 LF PVC CASING

1 – 8" G.V.

1 – VALVE MARKER

EX. 8" G.V. TO BE ABANDONED

1 – RELOCATE EX. METER W/ 10 LF SERVICE LINE

WATERLINE MARKER

14" x 20 LF STEEL CASING

8" PVC C900 DR 18)

1 – RECONNECT EX. METER W/ 10 LF SERVICE LINE

EXISTING 8" TO BE ABANDONED IN PLACE

SHRUBS

PATIO

815

HWY 65

EXISTING 4" TO BE ABANDONED IN PLACE)

BEGIN BOULDER STRING

END BOULDER STRING

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17 (676 LF)

8" x 20 LF STEEL CASING

UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING

8" x 30 LF STEEL CASING

4" PVC SDR 17

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 813+00 - 819+00

11/9/2018 11:16:03 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:16:03 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	231	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS

11-9-18

MATCH LINE

MATCH LINE

1 – TRACER WIRE TEST STATION

8" PVC C900 DR 18 (628 LF)

EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" x 45° BEND

15" x 20 LF PVC CASING

1 – 8" x 45° BEND

8" PVC C900 DR 18

1 – TRA

820

HWY 65

825

85'

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17 (628 LF)

BEGIN ROCK OUTCROPPING

8" x 20 LF STEEL CASING

END ROCK OUTCROPPING

1 – TRACER WIRE TEST STATION

BEGIN BOULDER STRING

EXISTING 4" TO BE ABANDONED IN PLACE

4" PVC SDR 17 (626 LF)

R/W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 819+00 - 826+00

11/9/2018 11:16:16 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\171005300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:16:16 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	232605	
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

8" PVC C900 DR 18

1 – TRACER WIRE TEST STATION

8" PVC C900 DR 18 (521 LF)

PROPOSED R/W

CONST. LIMITS

EXISTING R/W

EXISTING 8" TO BE ABANDONED IN PLACE

EXISTING 8" TO BE ABANDONED IN PLACE

830

HWY 65

DEAD END ROAD

PRIVATE

EXISTING 4" TO BE ABANDONED IN PLACE

EXISTING R/W

EXISTING 4" TO BE ABANDONED IN PLACE

CONST. LIMITS

PROPOSED R/W

4" PVC SDR 17

GATE

4" PVC SDR 17 (620 LF)

8" x 20 LF PVC CASING

1 – TRACER WIRE TEST STATION

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 826+00 - 832+00

11/9/2018 11:16:29 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:16:29 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	233	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

8" PVC C900 DR 18
1 – 8" x 45° BEND
1 – VALVE MARKER
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
1 – 8" T. S. & V.
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 8" TO REMAIN
MATCH LINE
8" PVC C900 DR 18 (88 LF)
EX. AIR RELEASE VALVE TO REMAIN
EX. F.H. TO REMAIN
EXISTING 8" TO REMAIN
EXISTING 8" TO BE ABANDONED IN PLACE
1 – TRACER WIRE TEST STATION
835
HWY 65
EXISTING 4" TO BE ABANDONED IN PLACE
END BOULDER STRING
115'
BEGIN BOULDER STRING
EXISTING 4" TO BE ABANDONED IN PLACE (680 LF)
4" PVC SDR 17
UNN JOHNNI
1 – TRACER WIRE TEST STATION
PRIVATE DRIVE
8" x 30 LF PVC CASING
4" PVC SDR 17 (684 LF)
DEAD END ROAD
HOUSE SIZE BOULDER

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 832+00 -838+00

11/9/2018 11:16:44 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:16:44 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	Z34	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

1 – 8" x 90° BEND
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
8" PVC C900 DR18 (5 LF)
1 – 8" x 90° BEND
1 – 8" T. S. & V.
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 8" TO REMAIN
1 – TRACER WIRE TEST STATION
1 – HWY CROSSING MARKER
8" CERTA-LOK (C900 DR18)
1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
1 – 8" INSERTA VALVE

EXISTING 8" TO REMAIN
EX. 8" G.V. TO BE ABANDONED
EXISTING R/W
R/W
MATCHLINE
STA 841+04
HIGHWAY BORE
180 LF HIGHWAY BORE WITH 14" PE CASING
190 LF 8" CERTA-LOK (C900 DR18)
SEE UTILITY RELOCATION WATER HWY CROSSING (6 OF 8) SHEET
EXISTING 8" WATERLINE & HIGHWAY BORE TO BE ABANDONED
840
HWY 65
EXISTING 4" TO BE ABANDONED IN PLACE
SEE DENARD PUMP STATION UTILITY RELOCATION STA. 844+36 RIGHT
EXISTING 4" G.V. NORMALLY ON
115'
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE
4" PVC SDR 17 (267 LF)
UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING
DENNARD PS GROUND ELEV. 1356.00'
1 – TRACER WIRE TEST STATION
1 – TRACER WIRE TEST STATION
BRUSH
8" PVC C900 DR 18 (160 LF)
UNNAMED TRIBUTARY OF LITTLE JOHNNIES CREEK CROSSING

8" CERTA-LOK (C900 DR18)
1 – 8" x 6" REDUCER
1 – 6" G.V.
1 – 8" x 45° BEND
1 – VALVE MARKER
1 – HWY CROSSING MARKER
8" PVC C900 DR 18 (10 LF)
6" PVC C900 DR 18 (36 LF)
1 – 6" TEE
1 – 6" x 4" REDUCER
4" PVC SDR 17

GRAPHIC SCALE IN FEET
50' 0 50'

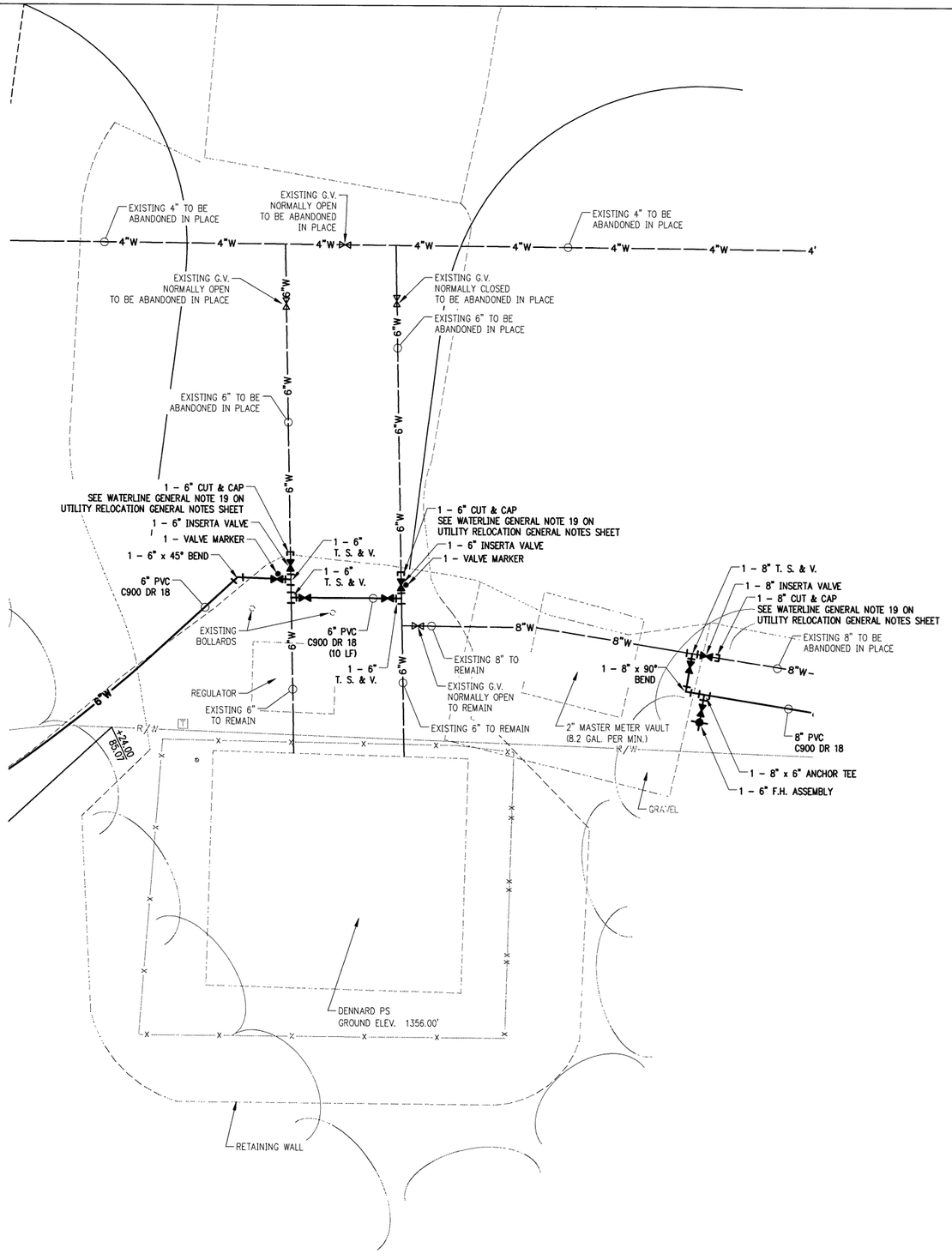
DENARD PUMP STATION
UTILITY RELOCATION
STA. 838+00 - 844+00

11/9/2018 11:16:59 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:16:59 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	235	665
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18


EXISTING 4" TO BE ABANDONED IN PLACE
EXISTING G.V. NORMALLY OPEN TO BE ABANDONED IN PLACE
EXISTING 4" TO BE ABANDONED IN PLACE
4"W
EXISTING G.V. NORMALLY OPEN TO BE ABANDONED IN PLACE
EXISTING G.V. NORMALLY CLOSED TO BE ABANDONED IN PLACE
EXISTING 6" TO BE ABANDONED IN PLACE
6"W
EXISTING 6" TO BE ABANDONED IN PLACE
1 – 6" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
1 – 6" INSERTA VALVE
1 – VALVE MARKER
1 – 6" x 45° BEND
1 – 6" T. S. & V.
6" PVC C900 DR 18
EXISTING BOLLARDS
6" PVC C900 DR 18 (10 LF)
REGULATOR
EXISTING 6" TO REMAIN
EXISTING 8" TO REMAIN
EXISTING G.V. NORMALLY OPEN TO REMAIN
1 – 8" T. S. & V.
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP
8"W
1 – 8" x 90° BEND
2" MASTER METER VAULT (8.2 GAL. PER MIN.)
8" PVC C900 DR 18
1 – 8" x 6" ANCHOR TEE
1 – 6" F.H. ASSEMBLY
GRAVEL
R/W
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
L21
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L35
L36
L37
L38
L39
L40

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	236	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

R/W
PROPOSED R/W
CONST. LIMITS
R/W
R/W
R/W
R/W
STEEP SLOPE
BRUSH
1500
850
845
HWY 65
EXISTING 4" TO BE ABANDONED IN PLACE
EXISTING 8" TO BE ABANDONED IN PLACE
1 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET W/ 10 LF SERVICE LINE EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION
REMOVE & ABANDON EX. F.H.
1 – 6" F.H. ASSEMBLY
1 – 8" x 6" ANCHOR TEE
1 – 8" x 22.5° BEND
1 – TRACER WIRE TEST STATION
15" x 20 LF PVC CASING
14" x 20 LF STEEL CASING
8" PVC C900 DR 18 (591 LF)
8" PVC C900 DR 18
BRUSH
OPEN STORAGE
RUINS
REMOVED
UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING
4"W
8"W
6"W

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 844+00 - 850+00

11/9/2018 11:17:14 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:17:14 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	237	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

1 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET EXACT LOCATION OF EX. METER UNKNOWN CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED EXACT LOCATION OF UNKNOWN

STA 851+05
SERVICE LINE BORE
240 LF 2" SERVICE LINE BORE
250 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (6 OF 8) SHEET
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION OF BORE

850

HWY 65

855

UNNAMED TRIBUTARY OF HARTSUGG CREEK CROSSING

EXISTING 3" TO REMAIN

1 – 3" x 45° BEND
1 – VALVE MARKER
1 – 3" T. S. & V.
3" PVC SDR 17
1 – 3" INSERTA VALVE
1 – 3" CUT & CAP
EXISTING 3" TO BE ABANDONED IN PLACE
SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 3" F.H. ASSEMBLY
1 – 3" ANCHOR TEE
1 – TRACER WIRE TEST STATION
1 – 3" x 90° BEND
1 – HWY CROSSING MARKER
3" PVC SDR 17 (26 LF)

EXISTING 3" WATERLINE & HIGHWAY BORE TO BE ABANDONED

STA 554+23
HIGHWAY BORE
200 LF HIGHWAY BORE WITH 6" PE CASING
220 LF 3" CERTA-LOK (YELOMINE, SDR 17)
SEE UTILITY RELOCATION WATER HWY CROSSING (7 OF 8) SHEET

EXISTING 4" TO BE ABANDONED IN PLACE
EXISTING 8" TO BE ABANDONED IN PLACE

1 – 8" x 22.5° BEND
15" x 20 LF PVC CASING
8" PVC C900 DR 18 (709 LF)

1 – 8" x 22.5° BEND
1 – 8" x 45° BEND
15" x 30 LF PVC CASING

1 – 8" x 45° BEND
8" PVC C900 DR 18

1 – 3" x 45° BEND
3" PVC SDR 17 (5 LF)
1 – 3" G.V.
1 – VALVE MARKER
8" PVC C900 DR 18
1 – 8" x 3" TEE
1 – HWY CROSSING MARKER
1 – TRACER WIRE TEST STATION

BRUSH
RET. WALL
ROCK GRILL
PATIO
SHRUBS
END BOULDER STRING
BEGIN BOULDER STRING
KIRKENDALL ROAD

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 850+00 - 857+00

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:17:29 AM SCALE: 1"=50'

11/9/2018 11:17:29 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	238	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

R/W
PROPOSED R/W
CONST. LIMITS
EXISTING R/W

HWY 65

860

EXISTING 4" TO BE ABANDONED IN PLACE

4"W

EXISTING 8" TO BE ABANDONED IN PLACE

8"W

x 45° BEND

1 – 8" x 45° BEND

8" PVC C900 DR 18 (452 LF)

2'

1 – 8" x 45° BEND

8" PVC C900 DR 18

1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – VALVE MARKER

1 – 8" INSERTA VALVE

1 – 8" T. S. & V.

1 – TRACER WIRE TEST STATION

1 – 8" x 22.5° BEND

8" PVC C900 DR 18

EXISTING 8" TO REMAIN

ROCAS

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 857+00 - 863+00

11/9/2018 11:17:44 AM

USER: BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:17:44 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	239	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

R/W

865

HWY 65

EXISTING 4" TO BE ABANDONED IN PLACE

PRIVATE DRIVE

4"W

1 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET W/ 10 LF SERVICE LINE

EX. 8" G.V.

8"W

EXISTING 4" TO BE ABANDONED IN PLACE

EXISTING 8" TO BE REMAIN

EXISTING 8" TO REMAIN

DAMPER

BRUSH

WOOD SIGN

1 – 8"

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 863+00 - 870+00

11/9/2018 11:17:58 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:17:58 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	240	665
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

1 – HWY CROSSING MARKER
2" PVC SDR 17 (5 LF)
1 – 2" MIDCO COUPLING
1 – PE TO MJ ADAPTER
1 – 2" F.H. ASSEMBLY
1" SERVICE LINE
MATCH LINE
MATCH LINE
PROPOSED R/W
CONST. LIMITS
CONCRETE PAD
ROCKS
EXISTING R/W
ROCK OUTCROPP
2 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET
1 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET
EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED
EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED
870
875
HWY 65
STA 870+17
HIGHWAY BORE
150 LF HIGHWAY BORE WITH 6" PE CASING
160 LF 2" PE SERVICE LINE CL 200
SEE UTILITY RELOCATION WATER HWY CROSSING (7 OF 8) SHEET
EXISTING 4" TO BE ABANDONED IN PLACE
CURB
EX. 6" G.V. TO BE ABANDONED
EX. 6" G.V. TO BE ABANDONED
REMOVE & ABANDON EX. F.H.
EX. 6" G.V. TO BE ABANDONED
EXISTING 6" TO BE ABANDONED IN PLACE
1 – 6" x 90° BEND
1 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET W/ 10 LF 1" SERVICE LINE
EXISTING 8" TO BE ABANDONED IN PLACE
CONST. LIMITS
PROPOSED R/W
6" PVC C900 DR 18 (232 LF)
EX. 6" G.V. TO BE ABANDONED
EX. DENARD MASTER METER GROUND ELEV. 1272.00' TO BE ABANDONED
1 – MASTER METER SEE UTILITY DETAIL (3 OF 7) SHEET
1 – RELOCATE EX. METER ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET W/ 10 LF 1" SERVICE LINE
1 – 6" x 45° BEND
1 – PE TO MJ ADAPTER
1 – 2" x 90° BEND
1 – HWY CROSSING MARKER
2" PVC SDR 17 (15 LF)
1 – 2" x 90° BEND
1 – VALVE MARKER
1 – 8" x 2" T. S. & V.
EXISTING 8" TO REMAIN
TANK
BRUSH
RUINS
1 – 8" x 6" T. S. & V.
1 – 8" INSERTA VALVE
1 – 8" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET
EXISTING 8" TO BE ABANDONED IN PLACE
EXISTING 8" TO REMAIN
6" PVC C900 DR 18
1 – 6" ANCHOR TEE
1 – 6" F.H. ASSEMBLY
1 – 6" x 90° BEND
1 – TRACER WIRE TEST STATION

GRAPHIC SCALE IN FEET
50' 0 50'

DENARD MASTER METER UTILITY RELOCATION STA. 870+00 - 875+00

11/9/2018 11:18:12 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:18:12 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	241	665
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

MATCH LINE

R/W

R/W

R/W

R/W

R/W

R/W

EXISTING R/W

1700

2 – RELOCATE EX. METERS ON HIGH PRESSURE LINE SEE UTILITY DETAIL (3 OF 7) SHEET

EXISTING 1" SERVICE LINE & SERVICE LINE BORE TO BE ABANDONED

BEGIN ROCK OUTCROPPING

END ROCK OUTCROPPING

ROCK OUTCROPPING

STA 876+08
SERVICE LINE BORE
320 LF 2" SERVICE LINE BORE
330 LF 1" SERVICE LINE
SEE UTILITY RELOCATION WATER HWY CROSSING (7 OF 8) SHEET

HWY 65

880

6"W

EXISTING 6" TO BE ABANDONED IN PLACE

BRUSH

EXISTING 6" TO BE ABANDONED IN PLACE

R/W

EXISTING R/W

R/W

R/W

6" PVC C900 DR 18 (683 LF)

10" x 20 LF STEEL CASING

UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING

6" PVC C900 DR 18

12

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 875+00 - 882+00

11/9/2018 11:18:26 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:18:26 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	242	605
				(2) UTILITY RELOCATION				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

PROPOSED R/W

R/W

CONST. LIMITS

R/W

R/W

R/W

R/W

R/W

R/W

MATCH LINE

885

HWY 65

EXISTING 6" TO BE ABANDONED IN PLACE

6"W

EXISTING 6" TO BE ABANDONED IN PLACE

EXISTING R/W

CONST. LIMITS

1 – 6" x 22.5° BEND

1 – TRACER WIRE TEST STATION

PROPOSED R/W

6" PVC C900 DR 18 (688 LF)

1 – 6" x 22.5° BEND

6" PVC C900 DR 18

10" x 20 LF STEEL CASING UNNAMED TRIBUTARY OF JOHNNIES CREEK CROSSING

10" x 20 LF PVC CASING

GRAPHIC SCALE IN FEET

50' 0 50'

UTILITY RELOCATION
STA. 882+00 - 889+00

11/9/2018 11:18:39 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:18:39 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	243	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
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ENGINEER
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No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

R/W

EX. WATERLINE GATE VALVE?

890

HWY 65

895

EXISTING 6" TO BE ABANDONED IN PLACE

6"W

R/W

2'

6" PVC C900 DR 18 (679 LF)

1 – TRACER WIRE TEST STATION

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 889+00 - 895+00

11/9/2018 11:18:52 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:18:52 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	244	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
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11-9-18

MATCH LINE

MATCH LINE

PLANTER

POOL

DECK

R/W

R/W

R/W

R/W

R/W

R/W

R/W

STA 900+95
SERVICE LINE BORE
150 LF 2" SERVICE LINE BORE
160 LF 1" SERVICE LINE
SHEET SEE UTILITY RELOCATION WATER
HWY CROSSING (8 OF 8) SHEET
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION
BEFORE INSTALLATION OF BORE

1 - RELOCATE EX. METER
ON HIGH PRESSURE LINE
SEE UTILITY DETAIL (3 OF 7) SHEET
EXACT LOCATION OF EX. METER UNKNOWN
CONTRACTOR TO VERIFY EX. LOCATION BEFORE INSTALLATION

900

HWY 65

EXISTING 1" SERVICE LINE &
SERVICE LINE BORE TO BE ABANDONED
EXACT LOCATION UNKNOWN

EXISTING 6" TO BE
ABANDONED IN PLACE

EXISTING 6" TO BE
ABANDONED IN PLACE

EX. 6" G.
TO BE AB

6"W

6" PVC
C900 DR 18
(679 LF)

10" x 20 LF
STEEL CASING

UNNAMED TRIBUTARY OF
JOHNNIES CREEK CROSSING

1 - RELOCATE EX. METER
ON HIGH PRESSURE LINE
W/ 10 LF SERVICE LINE
SEE SHEET UTILITY DETAIL (3 OF 7)

10" x 20 LF
PVC CASING

6" PVC
C900 DR 18

2"W

SWAMP

TANK

CANOPY

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 895+00 - 902+00

11/9/2018 11:19:05 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:19:05 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	245	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
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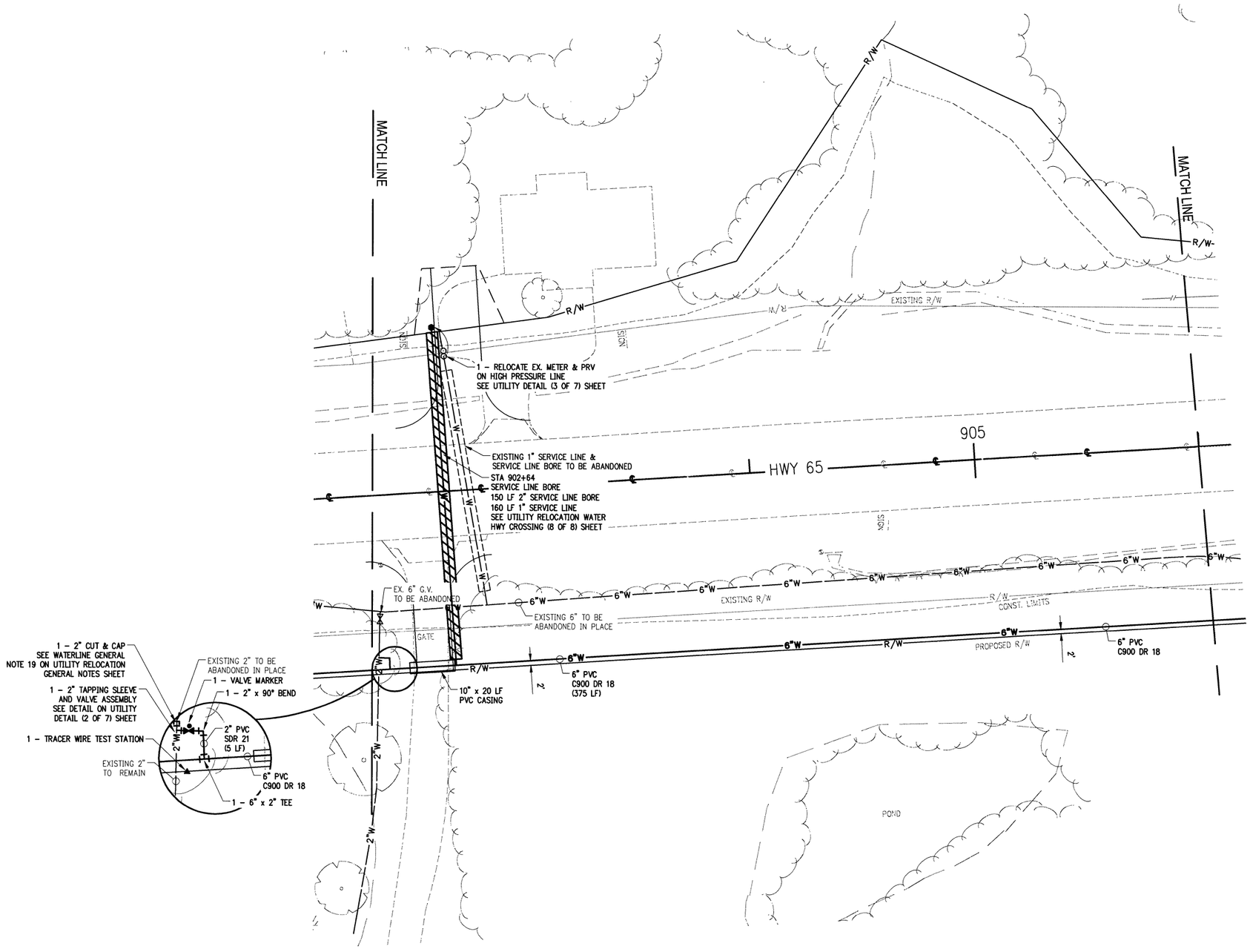
No. 9620
HUBERT BURNS
11-9-18



GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 902+00 - 906+00
11/9/2018 11:19:20 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:19:20 AM SCALE: 1"=50'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	246	665

(2) UTILITY RELOCATION

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
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No. 9620
HUBERT BURNS
11-9-18

MATCH LINE

R/W

PROPOSED R/W

CONST. LIMITS

GATE

6"W

1 – RELOCATE EX. METER ON HIGH PRESSURE LINE W/ 10 LF 1" SERVICE LINE SEE UTILITY DETAIL (3 OF 7) SHEET

EXISTING 6" TO REMAIN

EXISTING METER

BOTKINBURG BAPTIST CHURCH

TANK

EXISTING 6" WATERLINE & HIGHWAY BORE TO REMAIN

HWY 65

910

2 MAIL BOXES

PIPE GATE

EXISTING 6" TO BE ABANDONED IN PLACE

SIGN

EX. DRAIN

EX. PIPE GATE

4"W

EXISTING 4" TO BE ABANDONED IN PLACE

EXISTING F.H.

1 – EX. VALVE

1 – 6" INSERTA VALVE

1 – 6" T. S. & V.

1 – VALVE MARKER

6" PVC C900 DR 18 (154 LF)

ANTIQUE WAREHOUSE

1 – EX. METER

1 – 6" CUT & CAP SEE WATERLINE GENERAL NOTE 19 ON UTILITY RELOCATION GENERAL NOTES SHEET

1 – 6" x 90° BEND

1 – TRACER WIRE TEST STATION

BRUSH

Hwy 110

CONST. LIMITS

PROPOSED R/W

RUINS

EXISTING 4" TO REMAIN

GRAPHIC SCALE IN FEET
50' 0 50'

UTILITY RELOCATION
STA. 906+00 - 913+00

11/9/2018 11:19:35 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY RELOCATION.DWG
PLOTTED: 11/9/2018 11:19:35 AM SCALE: 1"=50'

PIPE LENGTH & GRADE

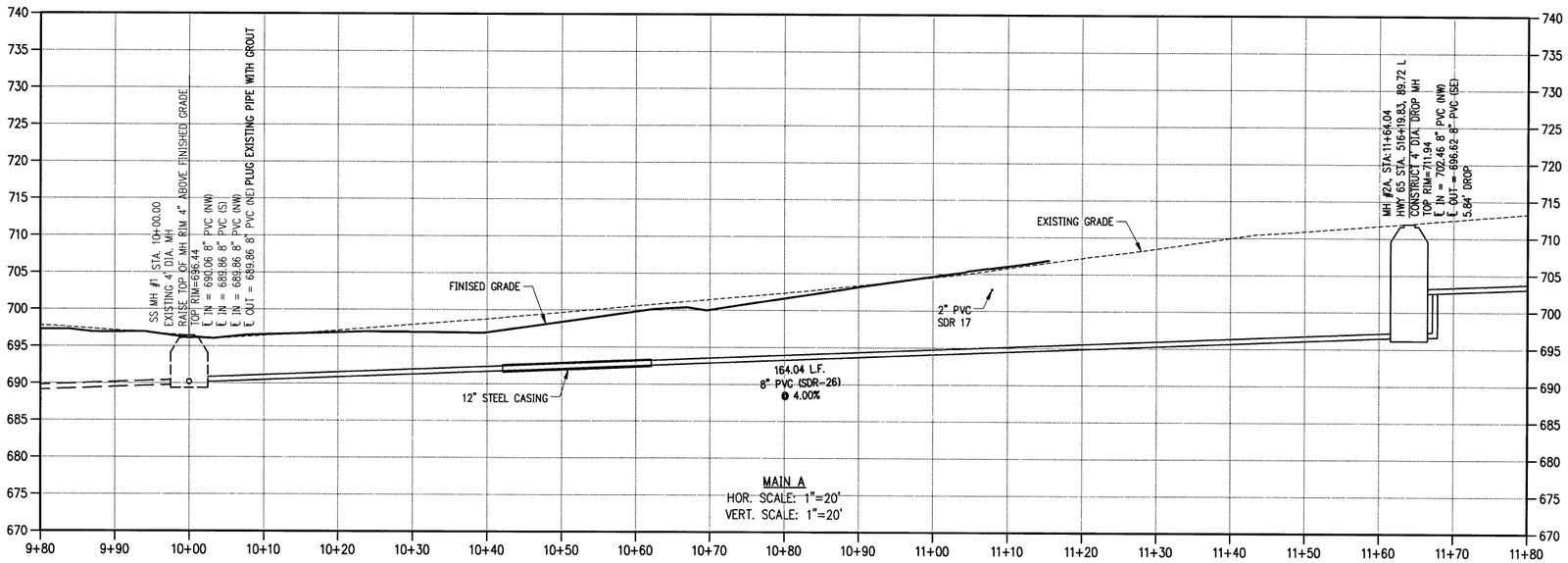
PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

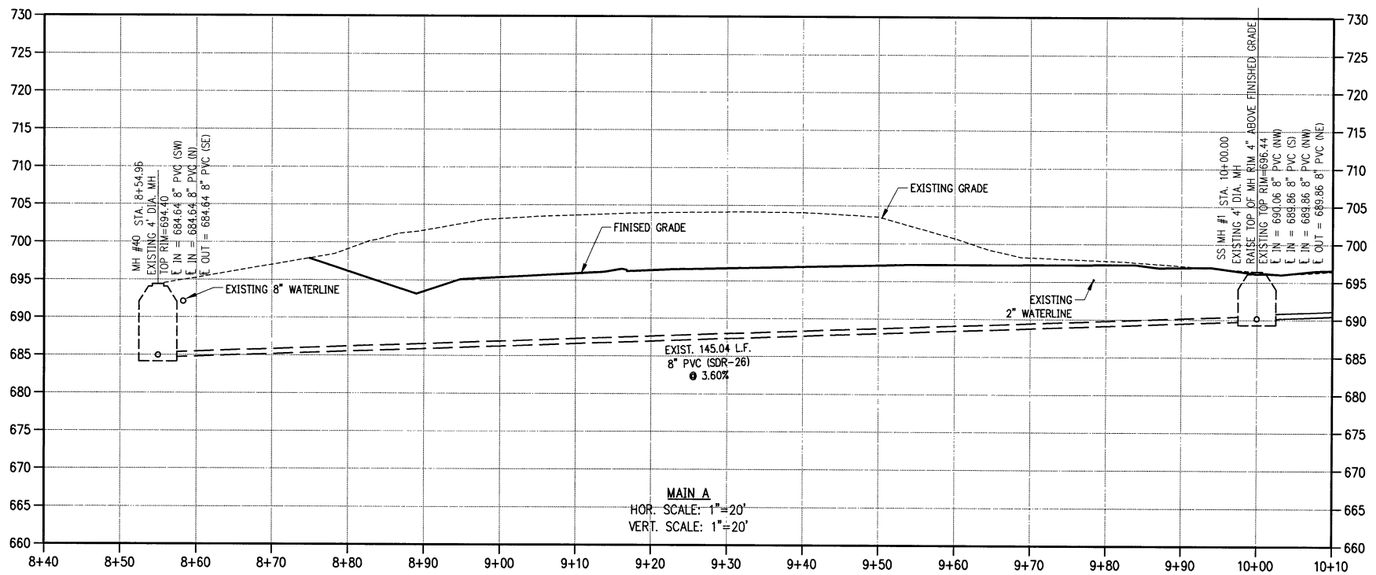
SEWER LINE EXISTING & FINISHED GRADES

EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	247	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18





UTILITY RELOCATION
SANITARY SEWER PROFILE
(1 OF 8)

11/9/2018 11:20:06 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\SANITARY SEWER PLAN & PROFILE.DWG
PLOTTED: 11/9/2018 11:20:06 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

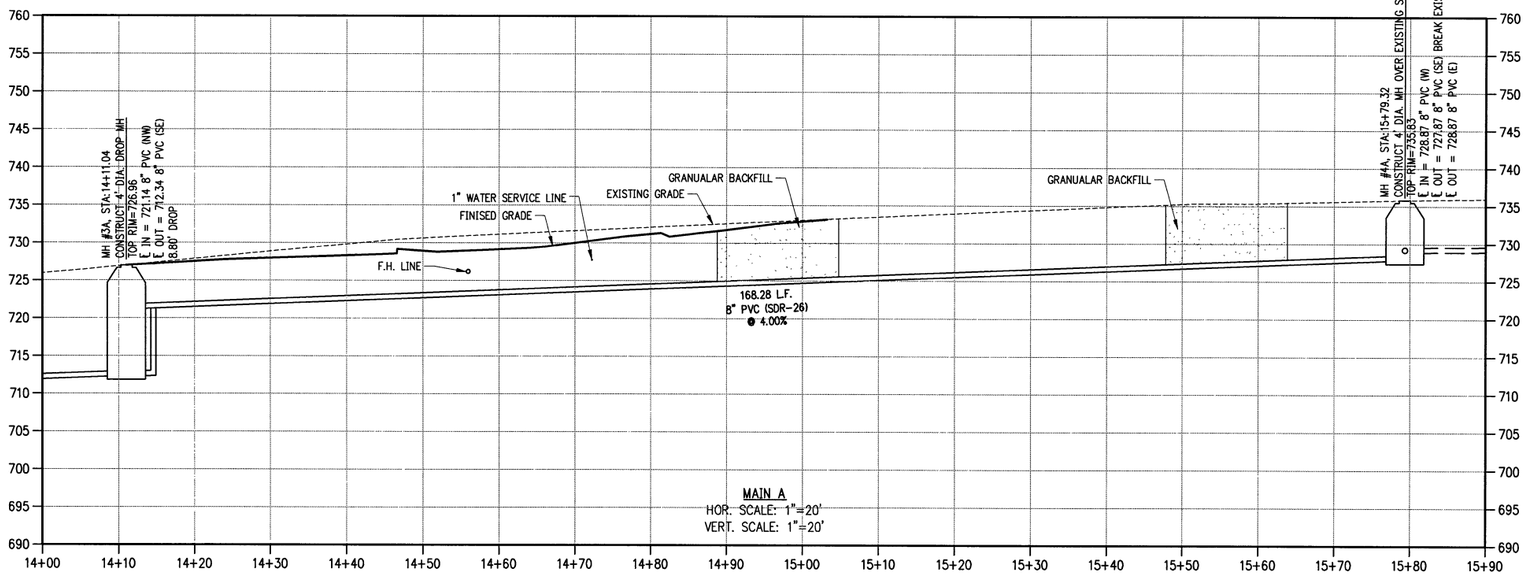
SEWER LINE EXISTING & FINISHED GRADES

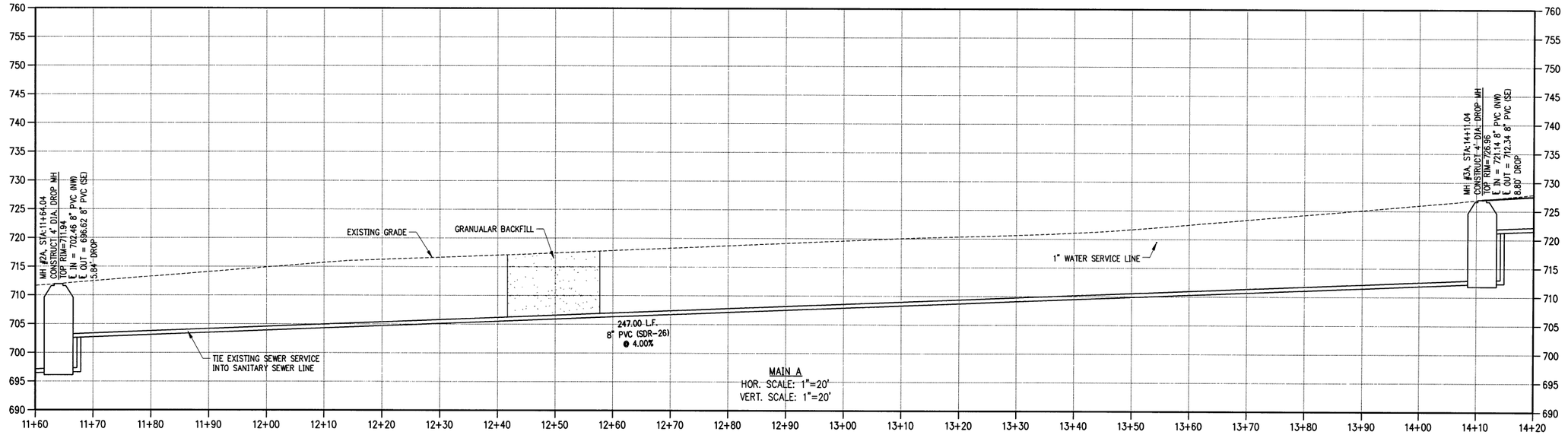
EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	248605	
(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18





UTILITY RELOCATION
SANITARY SEWER PROFILE
(2 OF 8)

11/9/2018 11:20:09 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:20:09 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

SEWER LINE EXISTING & FINISHED GRADES

EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	249	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
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No. 9620
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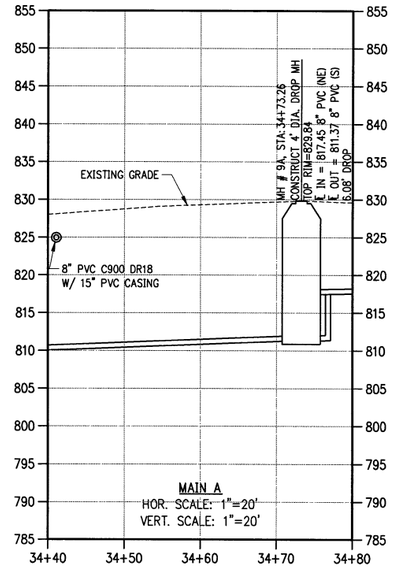
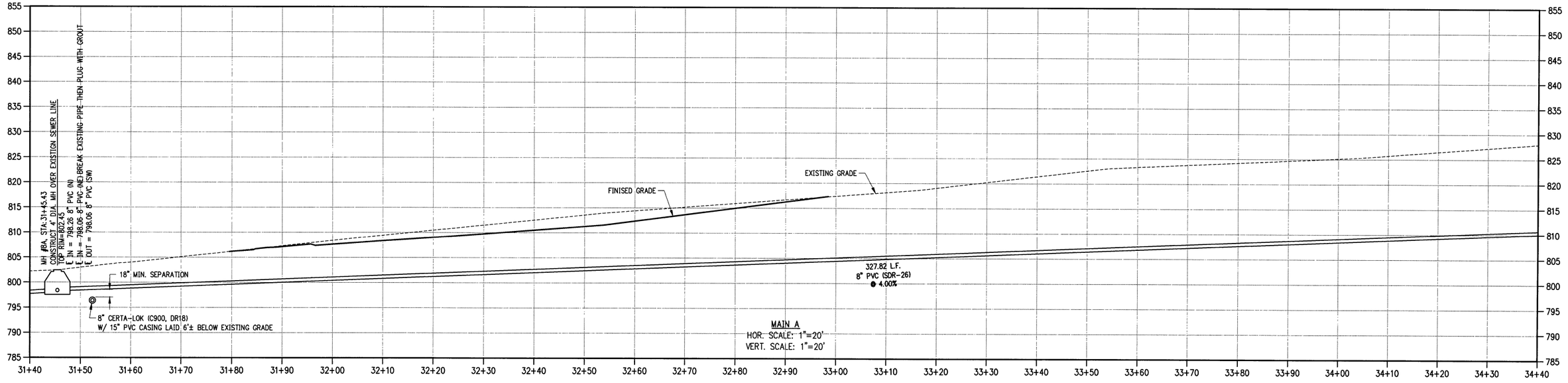
11-9-18





UTILITY RELOCATION
SANITARY SEWER PROFILE
(3 OF 8)

11/9/2018 11:20:11 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:20:11 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

SEWER LINE EXISTING & FINISHED GRADES

EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	256	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
HUBERT BURNS
PROFESSIONAL ENGINEER
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No. 9620
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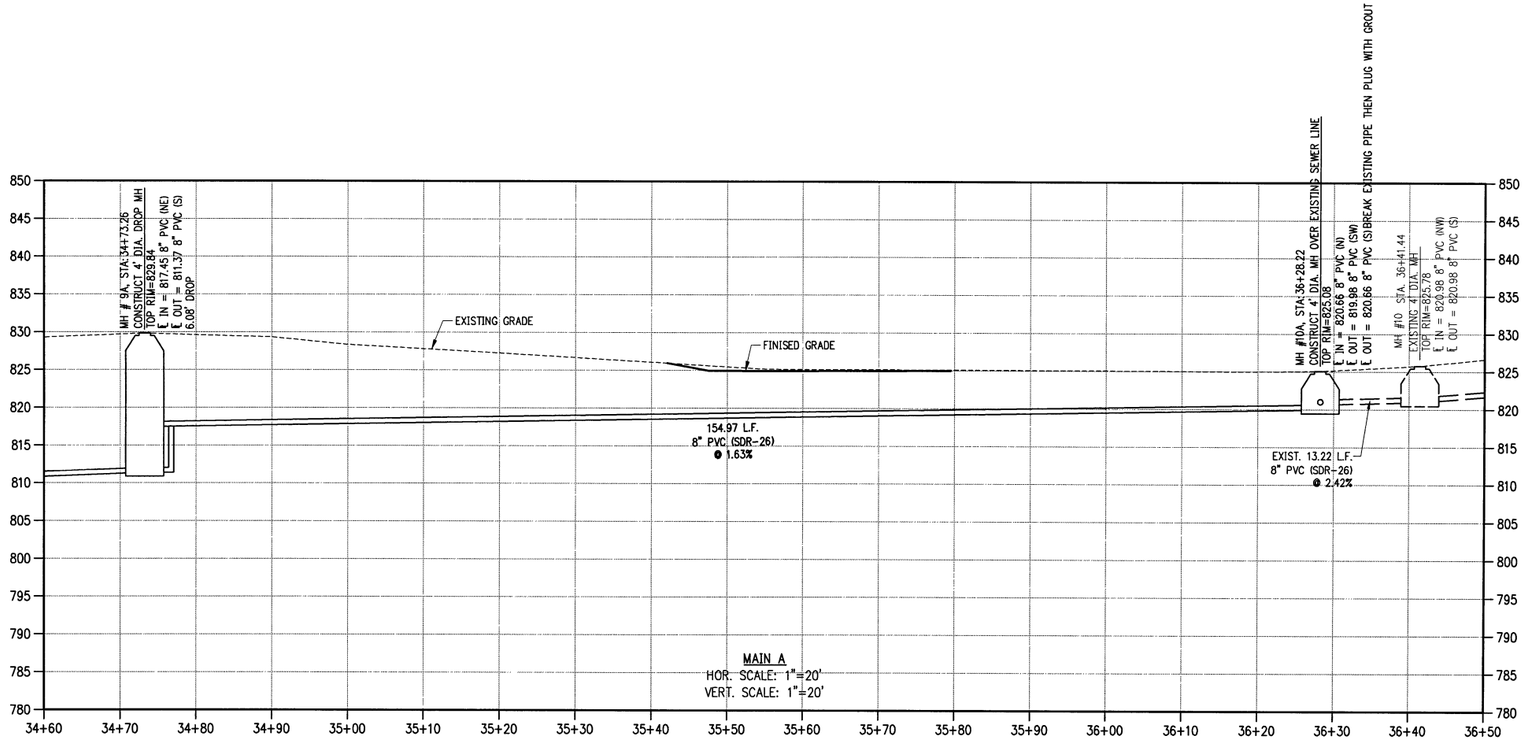

UTILITY RELOCATION
SANITARY SEWER PROFILE
(4 OF 8)

11/9/2018 11:20:13 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:20:13 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

SEWER LINE EXISTING & FINISHED GRADES

EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	251	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
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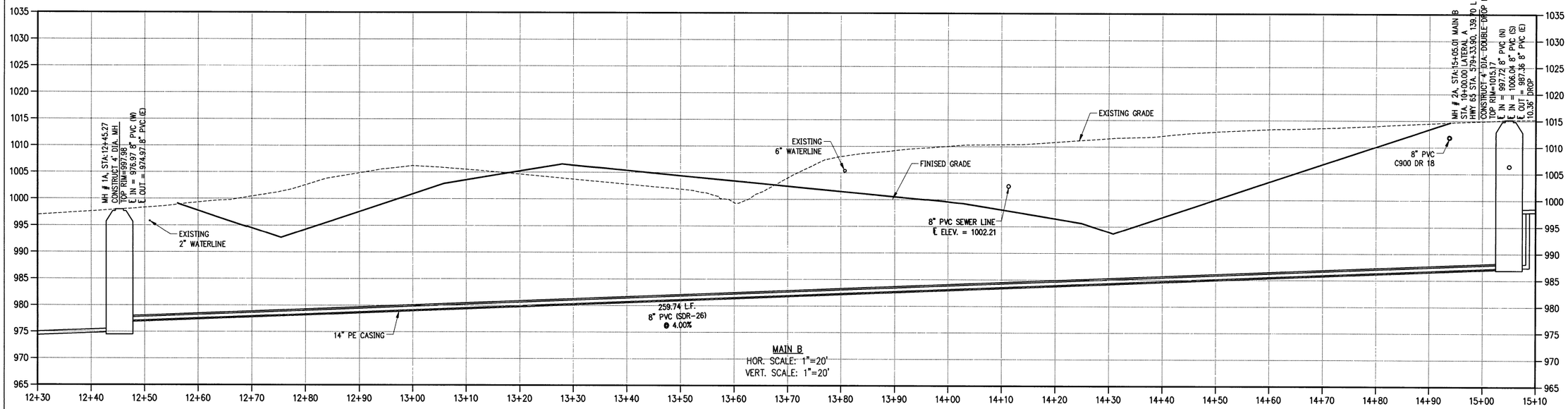
★★★
No. 9620
HUBERT BURNS

11-9-18



UTILITY RELOCATION
SANITARY SEWER PROFILE
(5 OF 8)

11/9/2018 11:20:16 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:20:16 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

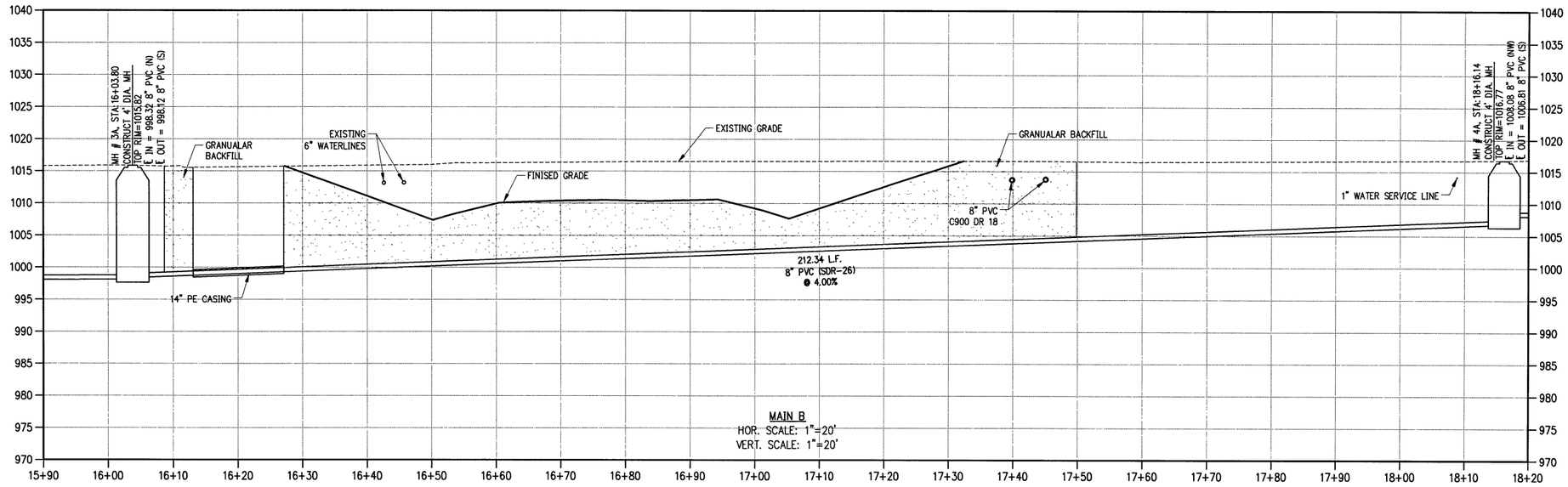
SEWER LINE EXISTING & FINISHED GRADES

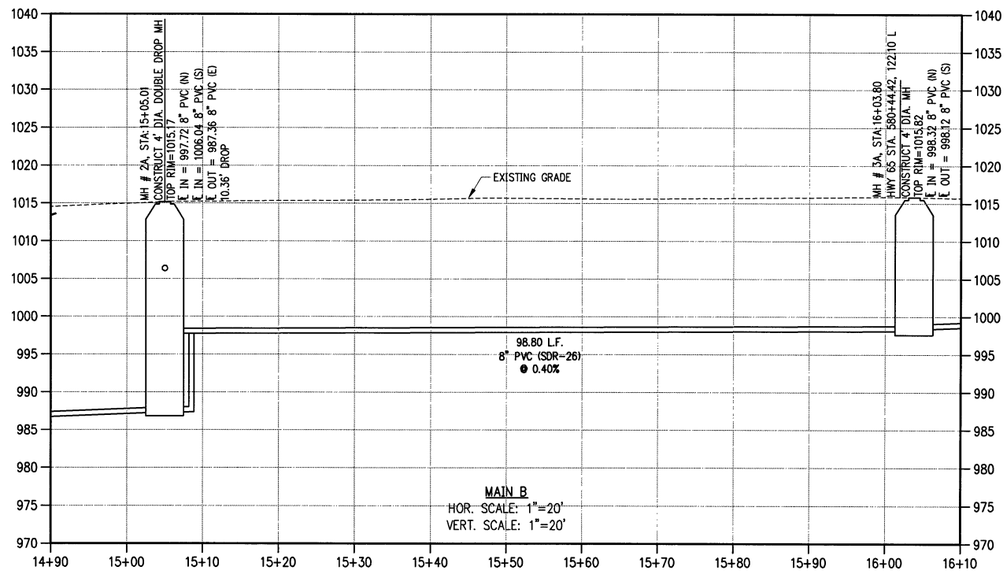
EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	252	605
(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18





UTILITY RELOCATION
SANITARY SEWER PROFILE
(6 OF 8)

11/9/2018 11:20:19 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:20:19 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

SEWER LINE EXISTING & FINISHED GRADES

EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	253	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
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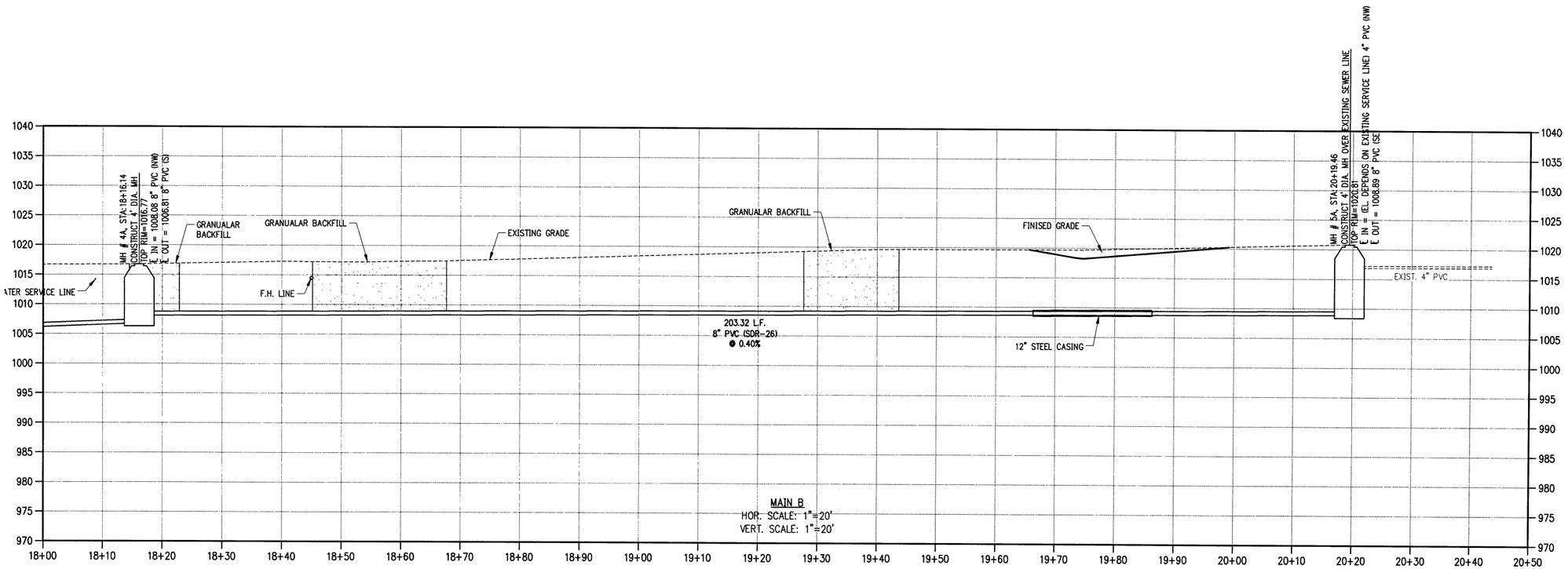
11-9-18



MAIN B
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=20'

UTILITY RELOCATION
SANITARY SEWER PROFILE
(7 OF 8)

11/9/2018 11:20:20 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\SANITARY SEWER PLAN & PROFILE.DWG
PLOTTED: 11/9/2018 11:20:20 AM SCALE: ----

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

SEWER LINE EXISTING & FINISHED GRADES

EXISTING & FINISHED GRADE ARE BASED ON ARDOT CROSS SECTIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	254	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
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ENGINEER
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No. 9620
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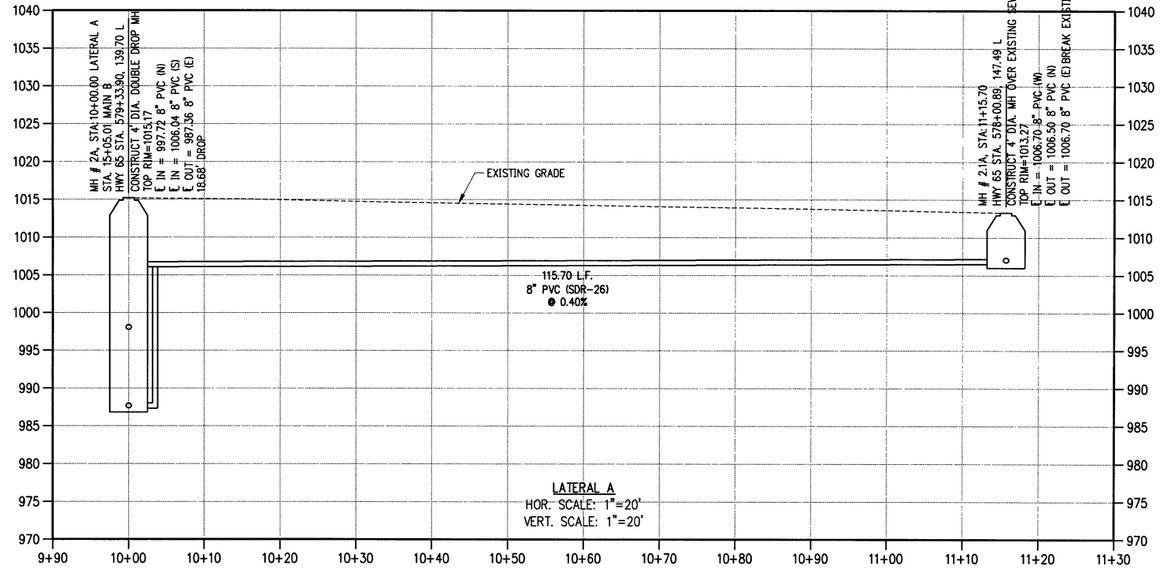
11-9-18



UTILITY RELOCATION
SANITARY SEWER PROFILE
(8 OF 8)

11/9/2018 11:20:22 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:20:22 AM SCALE: ----

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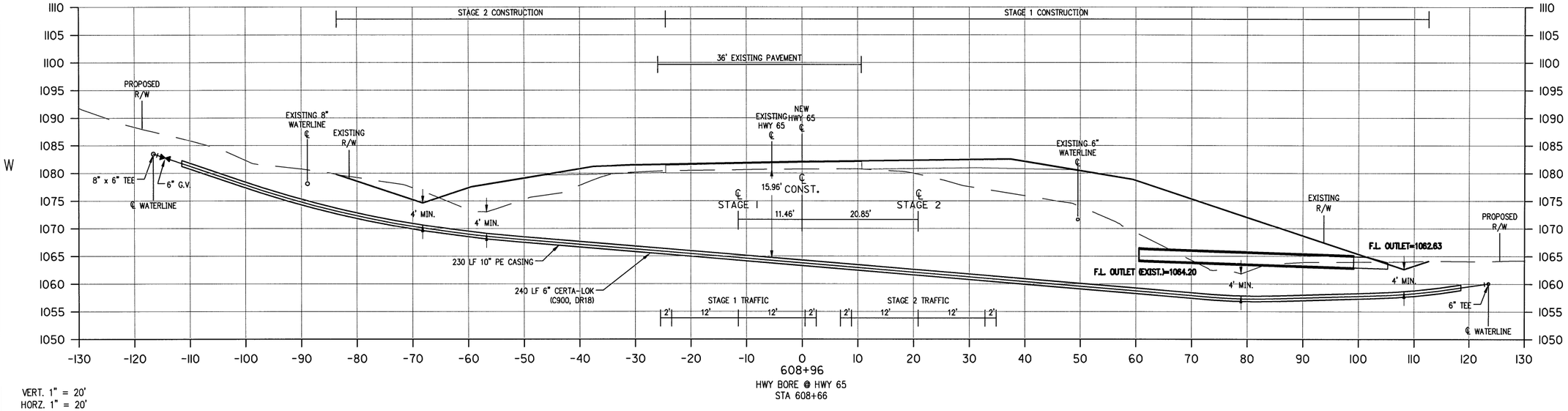
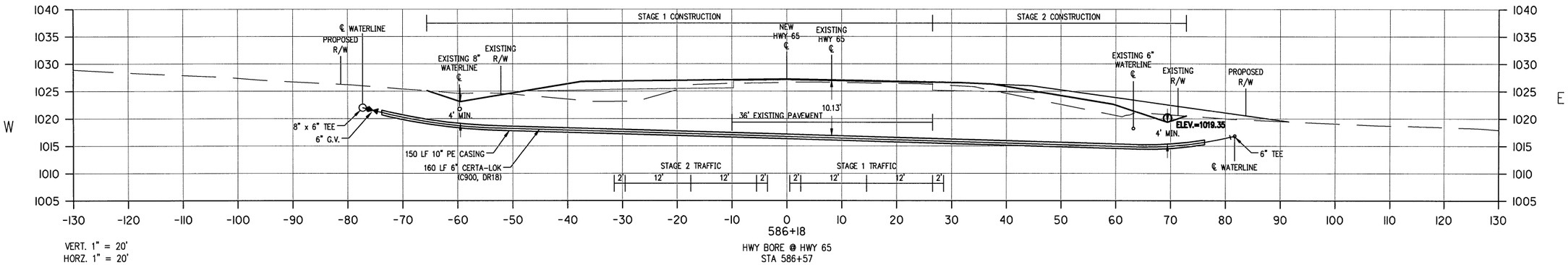
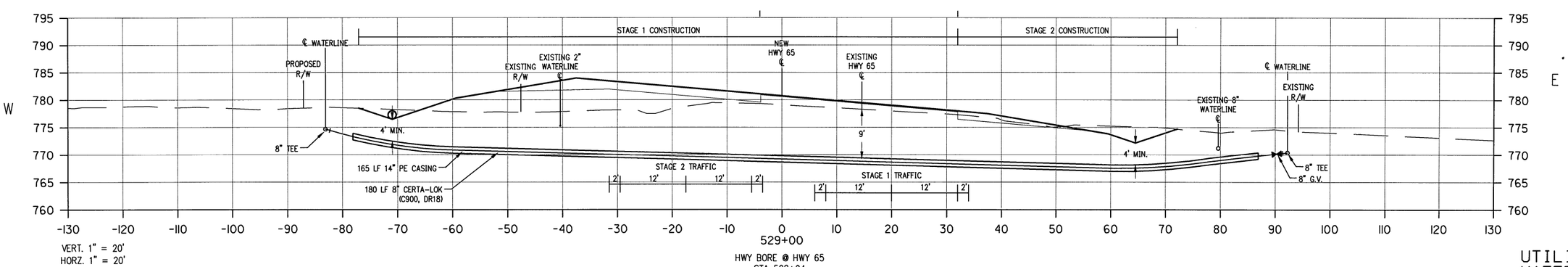
				6	ARK.			
				JOB NO.		CA0801	255	605

(2) UTILITY RELOCATION

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18







UTILITY RELOCATION
WATER HWY CROSSING
(1 OF 8)

11/9/2018 11:20:39 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\WATER HWY CROSSINGS.DWG
PLOTTED: 11/9/2018 11:20:39 AM SCALE: ----

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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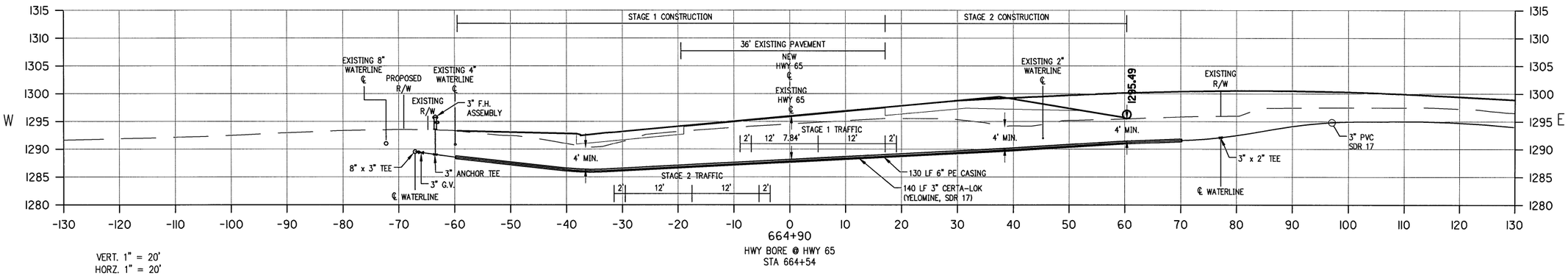
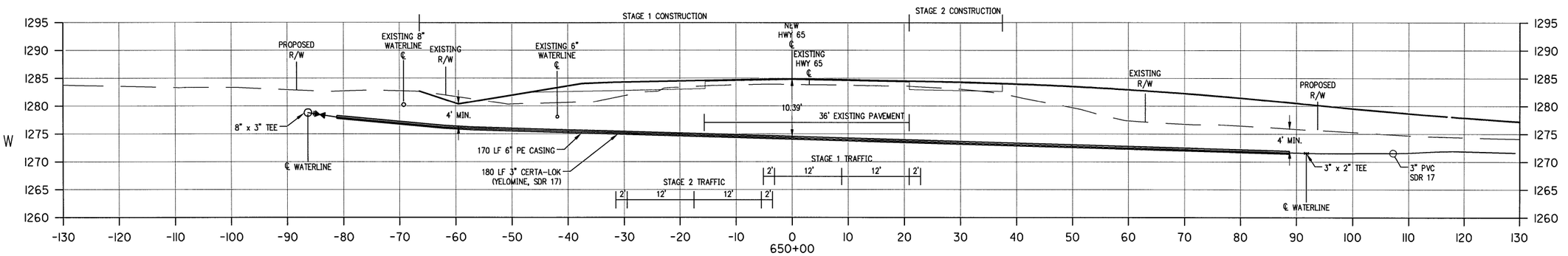
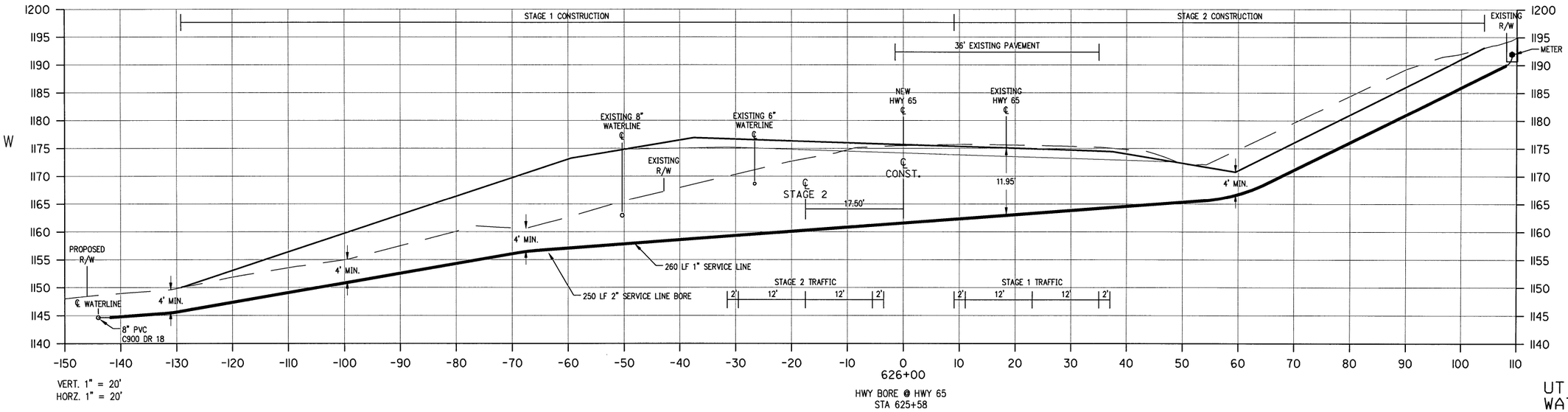
				JOB NO.		CA0801	256	605
				(2)	UTILITY RELOCATION			







STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

UTILITY RELOCATION
WATER HWY CROSSING
(2 OF 8)

11/9/2018 11:20:45 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\WATER HWY CROSSINGS.DWG
PLOTTED: 11/9/2018 11:20:45 AM SCALE: ----

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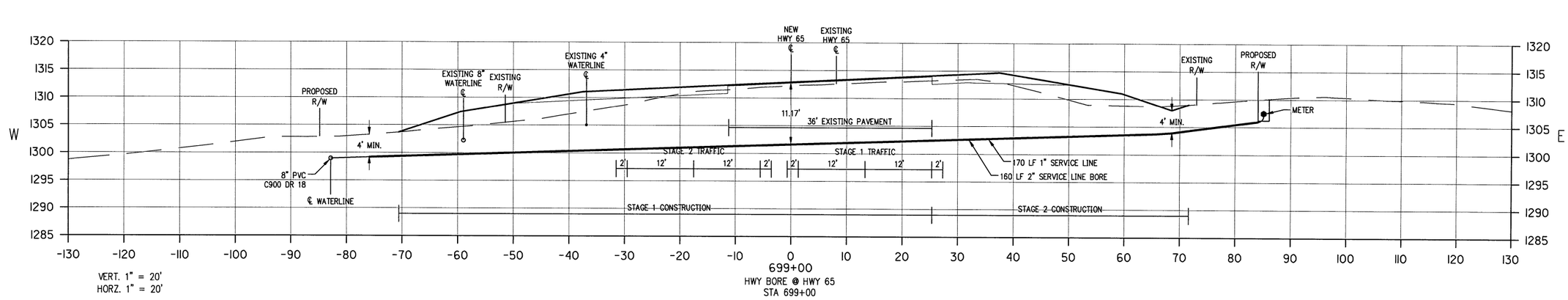
				JOB NO.		CA0801	257	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 9620
HUBERT BURNS

11-9-18



UTILITY RELOCATION
WATER HWY CROSSING
(3 OF 8)

11/9/2018 11:20:50 AM

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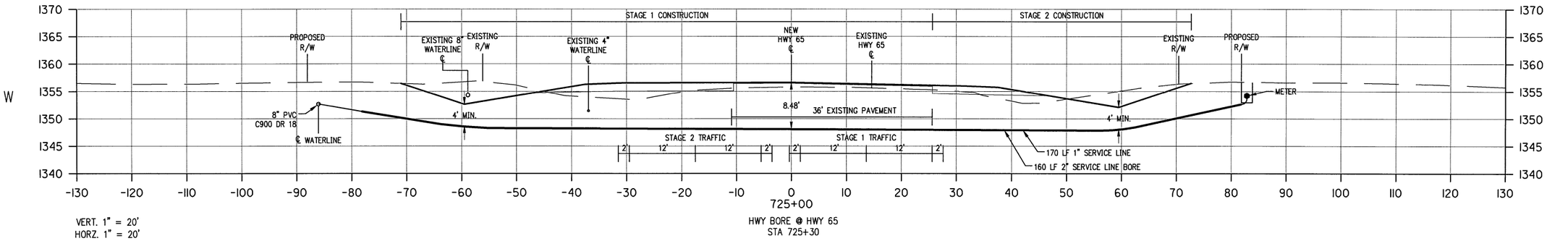
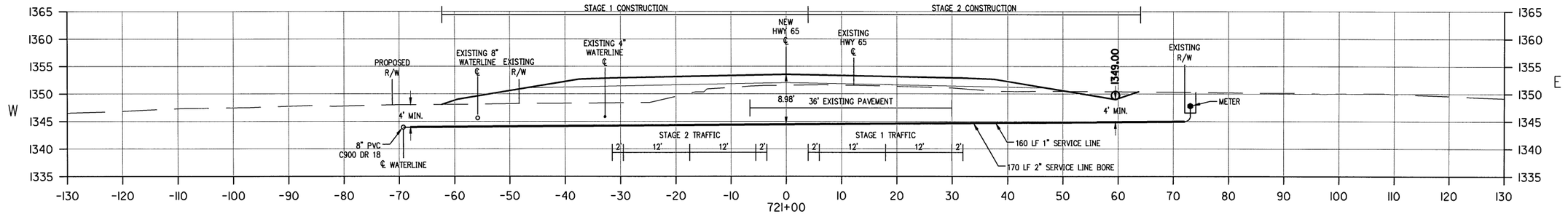
STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18



VERT. 1" = 20'
HORZ. 1" = 20'

HWY BORE @ HWY 65
STA 725+30



VERT. 1" = 20'
HORZ. 1" = 20'

HWY BORE @ HWY 65
STA 721+25

UTILITY RELOCATION
WATER HWY CROSSING
(4 OF 8)

11/9/2018 11:20:56 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\!WATER HWY CROSSINGS.DWG
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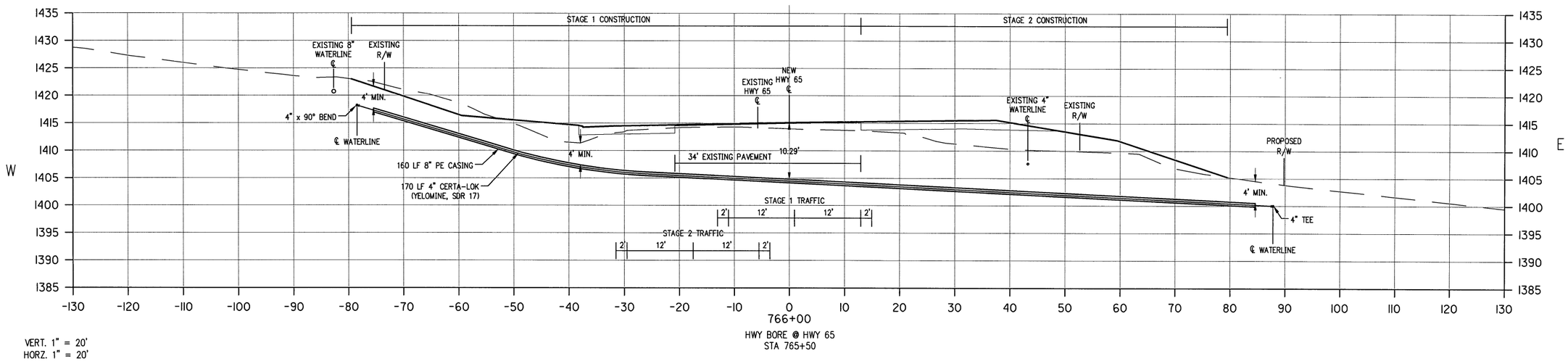
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS

11-9-18



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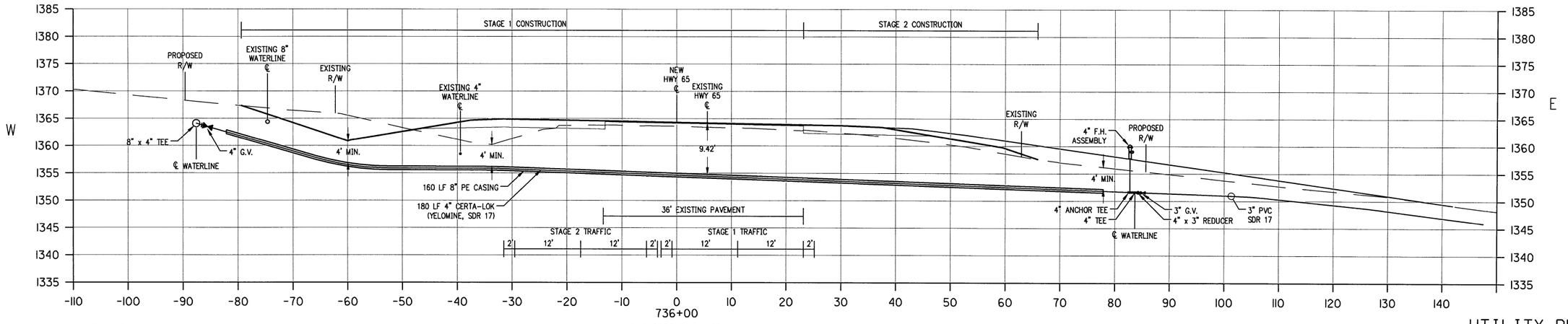
HORZ. 1" = 20'



VERT. 1" = 20'
HORZ. 1" = 20'

UTILITY RELOCATION
WATER HWY CROSSING
(5 OF 8)

11/9/2018 11:21:01 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\WATER HWY CROSSINGS.DWG
PLOTTED: 11/9/2018 11:21:01 AM SCALE: ----

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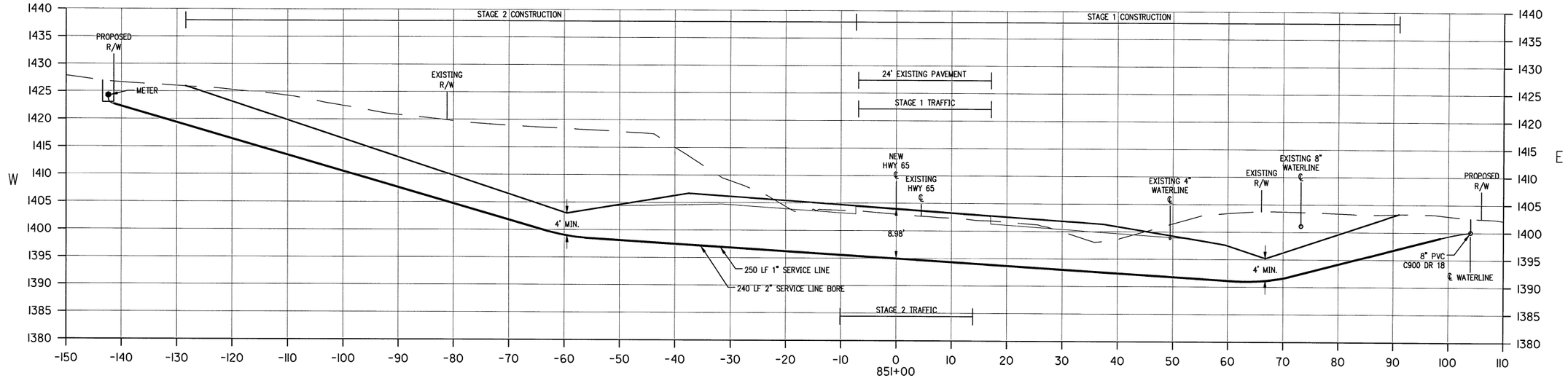
				JOB NO.		CA0801	260	605
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
11-9-18
PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18



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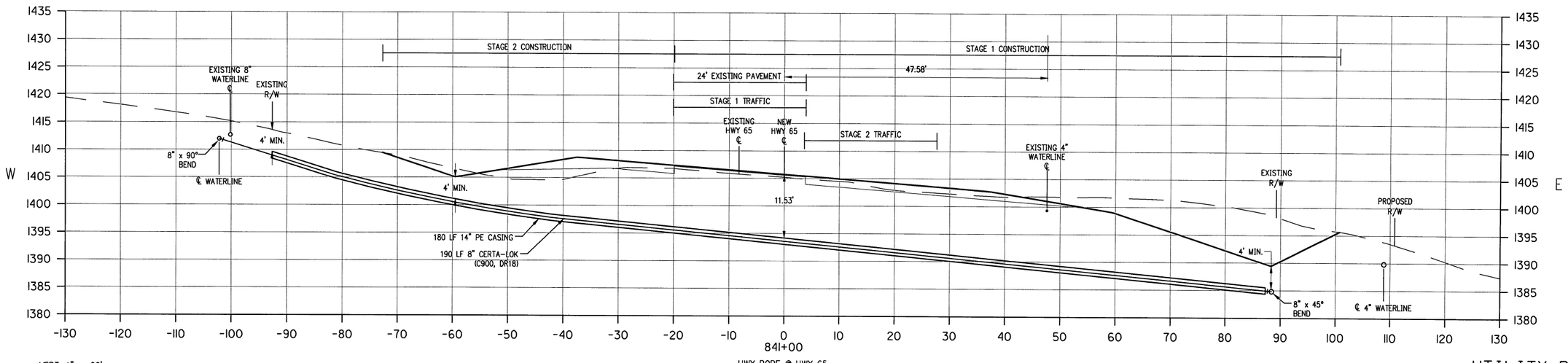
HORZ. 1" = 20'



VERT. 1" = 20'
HORZ. 1" = 20'

UTILITY RELOCATION
WATER HWY CROSSING
(6 OF 8)

11/9/2018 11:21:14 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\WATER HWY CROSSINGS.DWG
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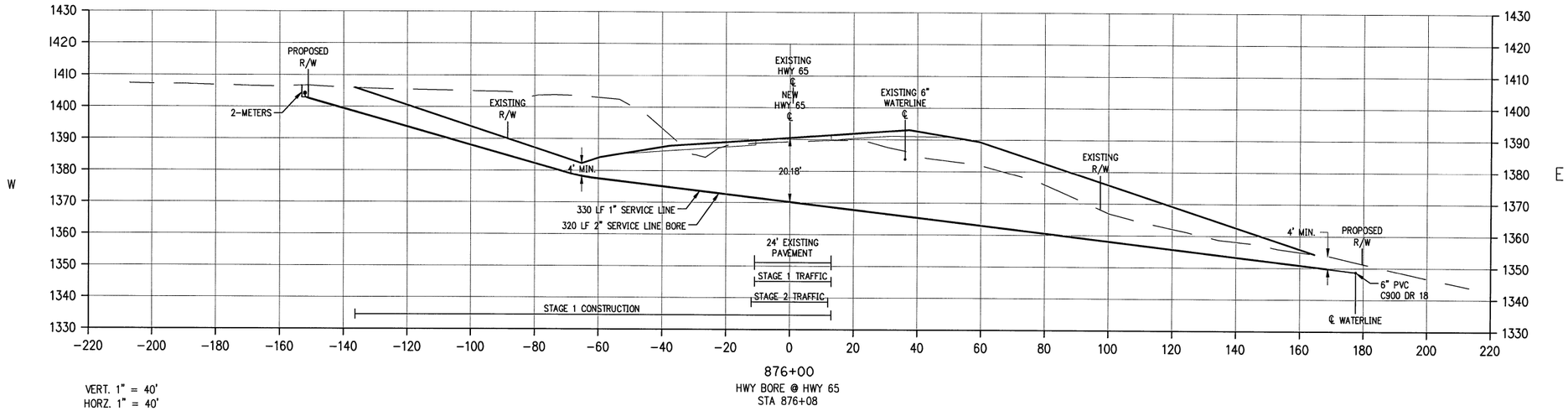
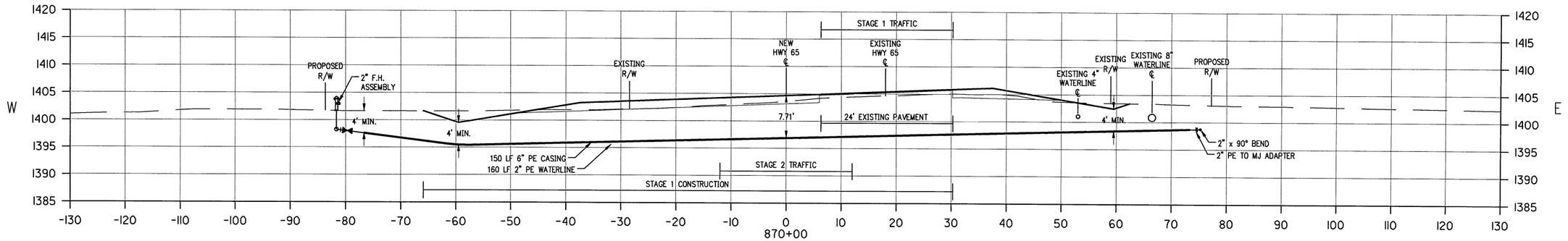
				(2)	UTILITY RELOCATION			



876+00
HWY BORE @ HWY 65
STA 876+08

VERT. 1" = 40'
HORZ. 1" = 40'



870+00
HWY BORE @ HWY 65
STA 870+17

VERT. 1" = 20'
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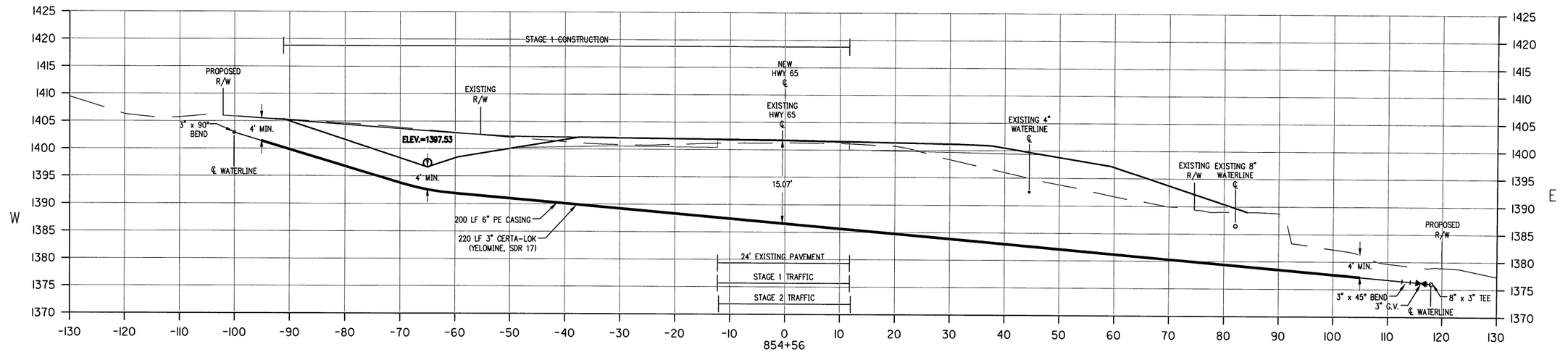

854+56
HWY BORE @ HWY 65
STA 854+23

VERT. 1" = 20'
HORZ. 1" = 20'

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11-9-18

UTILITY RELOCATION
WATER HWY CROSSING
(7 OF 8)

11/9/2018 11:21:31 AM

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\WATER HWY CROSSINGS.DWG
PLOTTED: 11/9/2018 11:21:31 AM SCALE: ----

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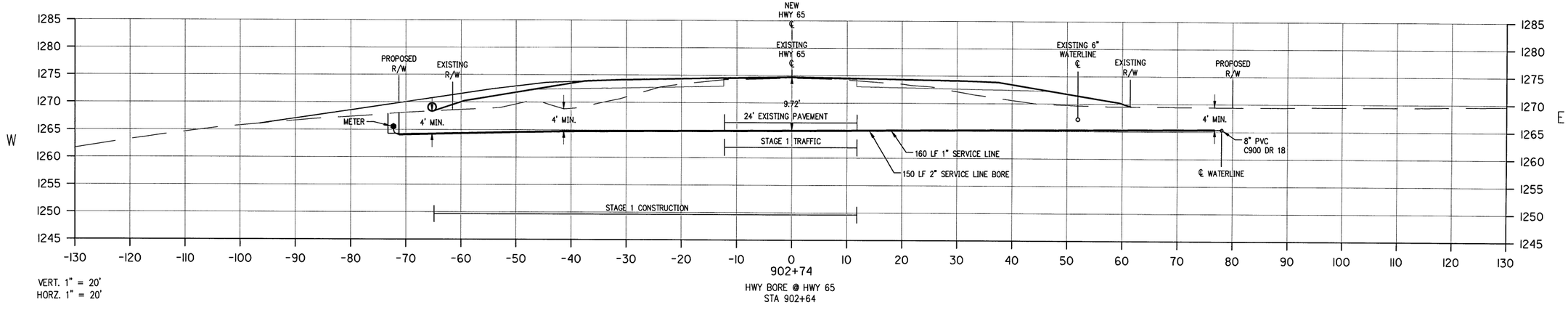
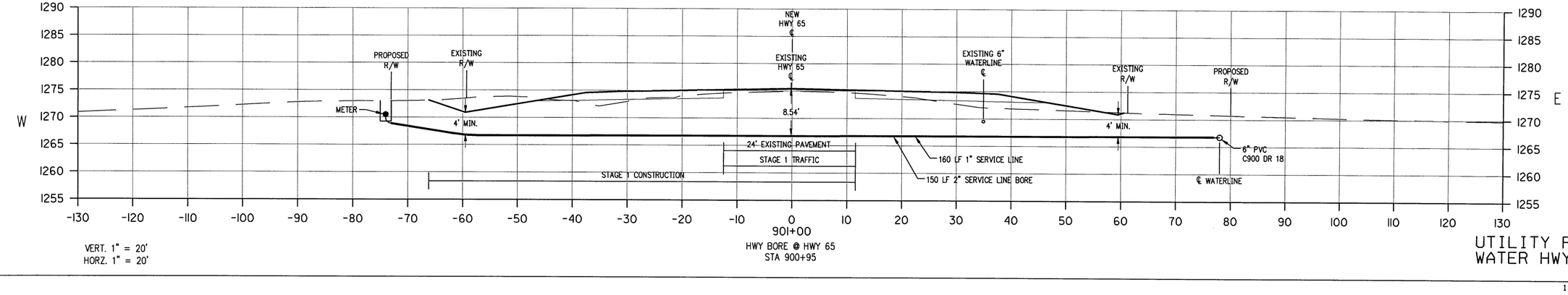
				JOB NO.		CA0801	262	665
				(2)	UTILITY RELOCATION			

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS

11-9-18





UTILITY RELOCATION
WATER HWY CROSSING
(8 OF 8)

11/9/2018 11:21:49 AM

USER:BRADLEY NELSON
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PLOTTED: 11/9/2018 11:21:49 AM SCALE: ----

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

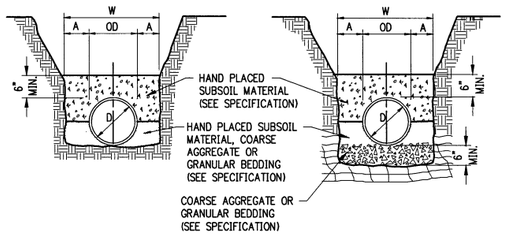
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		CA0801	263605	

(2) UTILITY DETAIL

OD = OUTSIDE PIPE DIAMETER

D = NOMINAL PIPE DIAMETER

W = MAXIMUM TRENCH WIDTH



TRENCH IN EARTH TRENCH WITH ROCK BOTTOM

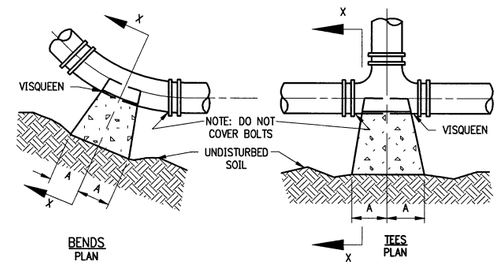
NOTE:

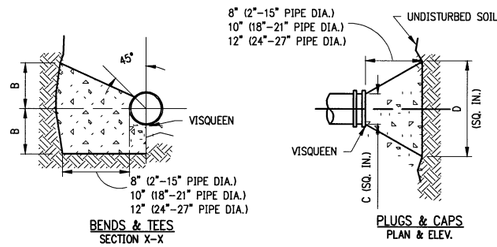
PIPE EMBEDMENT SHALL BE DONE IN A MANNER THAT WILL NOT DISTURB THE HORIZONTAL OR VERTICAL ALIGNMENT OF THE UTILITY LINE. MATERIAL IN THIS AREA SHALL BE FINELY DIVIDED, AND FREE OF STONES GREATER THAN 3/4"

PIPE DIA. "D"	MAXIMUM "A"
2" TO 15"	8"
18" TO 21"	10"
24" TO 27"	12"

WATERLINE TRENCH WIDTH & EMBEDMENT

N.T.S.





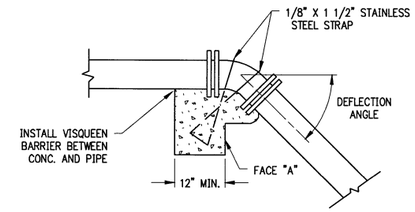
SOIL TYPE	PIPE SIZE	90° BENDS A	90° BENDS B	45° BENDS A	45° BENDS B	22 1/2°BEND A	22 1/2°BEND B	TEES A	TEES B	PLUGS/CAPS C	PLUGS/CAPS D
TYPE II 2000 PSF SOIL	3"-6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
	18"	42"	31"	24"	30"	15"	24"	27"	36"	30"	60"
	24"	54"	40"	30"	40"	24"	26"	36"	48"	48"	78"

NOTE:

INSTALL VISQUEEN BARRIER BETWEEN ALL CONC. AND PIPE.

THRUST BLOCKS

N.T.S.



FACE "A" AREAS
IN SQUARE FEET
(120 PSI MAXIMUM PRESSURE)

	DEFLECTION ANGLE		
PIPE SIZE	22 1/2	45	90
6"	1.0	1.5	2.2
8"	1.2	2.0	4.0
10"	1.8	3.8	6.5

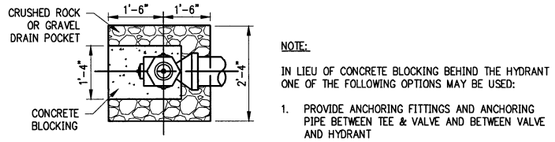
NOTE:

1. IF MAXIMUM PRESSURE EXCEEDS 120 PSI, RE-COMPUTE AREA REQUIRED.
2. FOR PIPE DIAMETERS OF 12" AND LARGER COMPUTE CROSS SECTIONAL AREA OF STRAP REQUIRED, AND THE AREA OF FACE "A" BASED ON WORKING PRESSURE AT POINT WHERE THRUST BLOCK IS BEING INSTALLED.

VERTICAL THRUST BLOCK

N.T.S.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER ★★★ No. 9620 HUBERT BURNS 11-9-18

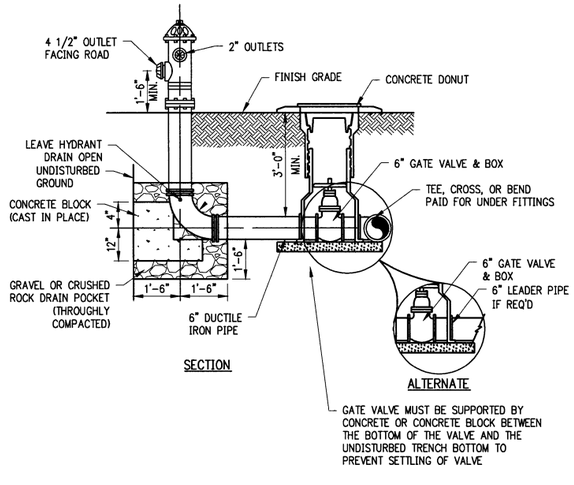


PLAN

NOTE:

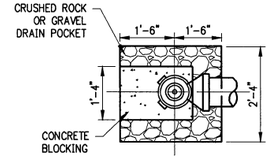
IN LIEU OF CONCRETE BLOCKING BEHIND THE HYDRANT ONE OF THE FOLLOWING OPTIONS MAY BE USED:

1. PROVIDE ANCHORING FITTINGS AND ANCHORING PIPE BETWEEN TEE & VALVE AND BETWEEN VALVE AND HYDRANT
2. PROVIDE TIE RODS OR MECHANICAL JOINTS WITH RETAINER GLANDS AT EACH CONNECTION.



6" FLUSHING HYDRANT

N.T.S.

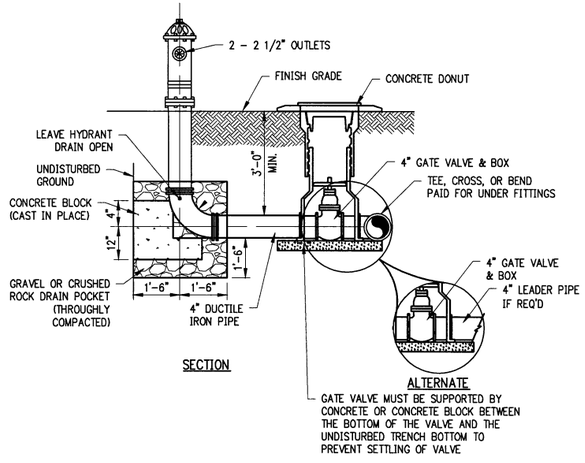


PLAN

NOTE:

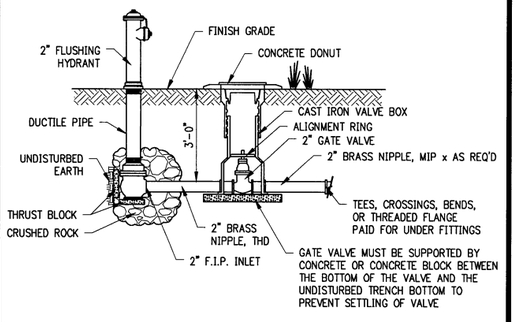
IN LIEU OF CONCRETE BLOCKING BEHIND THE HYDRANT ONE OF THE FOLLOWING OPTIONS MAY BE USED:

1. PROVIDE ANCHORING FITTINGS AND ANCHORING PIPE BETWEEN TEE & VALVE AND BETWEEN VALVE AND HYDRANT
2. PROVIDE TIE RODS OR MECHANICAL JOINTS WITH RETAINER GLANDS AT EACH CONNECTION.



4" FLUSHING HYDRANT

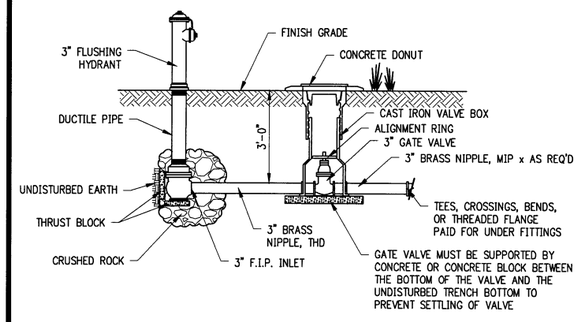
N.T.S.



HYDRANTS SHALL BE SET IN 4 CUBIC FEET OF CRUSHED STONE TO ALLOW FOR PROPER DRAINAGE OF THE HYDRANT. RECOMMENDATIONS OF THE AWWA SHOULD BE FOLLOWED WHEN INSTALLING THE HYDRANTS.

2" FLUSHING HYDRANT

N.T.S.



HYDRANTS SHALL BE SET IN 4 CUBIC FEET OF CRUSHED STONE TO ALLOW FOR PROPER DRAINAGE OF THE HYDRANT. RECOMMENDATIONS OF THE AWWA SHOULD BE FOLLOWED WHEN INSTALLING THE HYDRANTS.

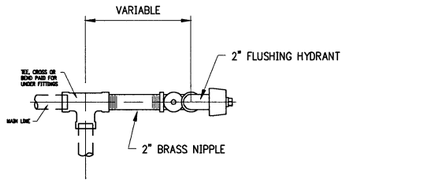
3" FLUSHING HYDRANT

N.T.S.

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
PLOTTED: 11/9/2018 11:21:58 AM SCALE: ----
11/9/2018 11:21:58 AM

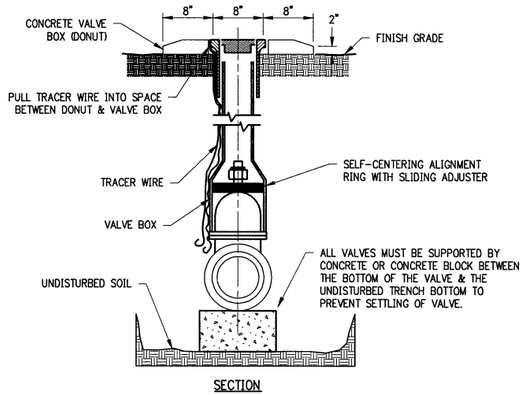
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	2C4	605

(2) UTILITY DETAIL



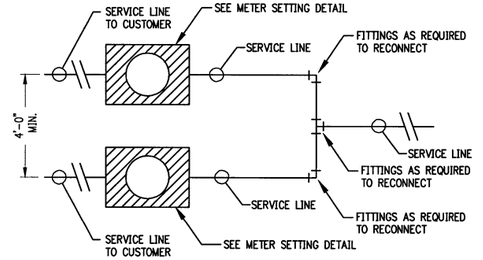
TEMPORARY 2" FLUSHING HYDRANT

N.T.S.



VALVE BOX W/ CONCRETE VALVE BOX DONUT

N.T.S.



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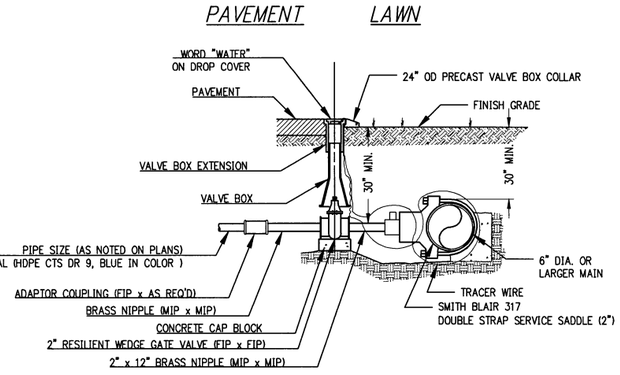
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

NOTE:

1. NEW SERVICE LINE WILL BE PAID FOR AS SERVICE LINE. ALL OTHER WORK AND MATERIALS INVOLVED IN MAKING THE TIE IS PAID FOR AS PART OF THE METER SETTING
2. BACKFILL AND ASPHALT/CONCRETE REPLACEMENT NECESSARY WILL BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.
3. METER BOX INSTALLATION SHALL BE ON UNDISTURBED EARTH OR GRAVEL BASE.
4. MINIMUM COVER THROUGH OPEN DITCH 24".

TWO METERS ON ONE SERVICE LINE

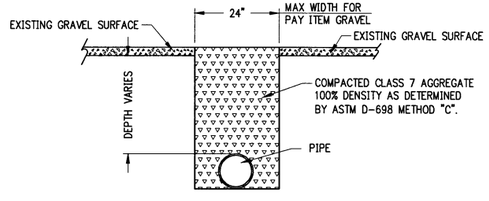
NTS



NOTE:
1. VALVE BOX EXTENSION TO BE INSTALLED FLUSH WITH PAVEMENT IN ASPHALT OR CONCRETE PAVEMENT.

2" TAPPING SLEEVE AND VALVE ASSEMBLY

N.T.S.

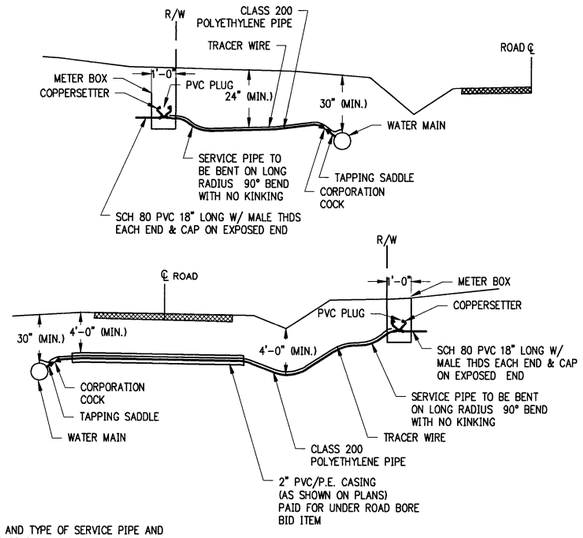


GENERAL NOTE:

1. WHEN EXISTING ROADWAY SURFACE IS DIRT, COMPACTED CLASS 7 AGGREGATE IS STILL REQUIRED.

GRAVEL ROAD OR DRIVEWAY REPLACEMENT

N.T.S.



NOTE:

1. SIZE AND TYPE OF SERVICE PIPE AND FITTINGS SHALL BE AS SPECIFIED
2. IN ALL EXAMPLES NEW SERVICE LINE WILL BE PAID FOR AS SERVICE LINE. ALL OTHER WORK AND MATERIALS INVOLVED IN MAKING THE TIE IS PAID FOR AS PART OF THE METER SETTING
2. BACKFILL AND ASPHALT/CONCRETE REPLACEMENT NECESSARY WILL BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.

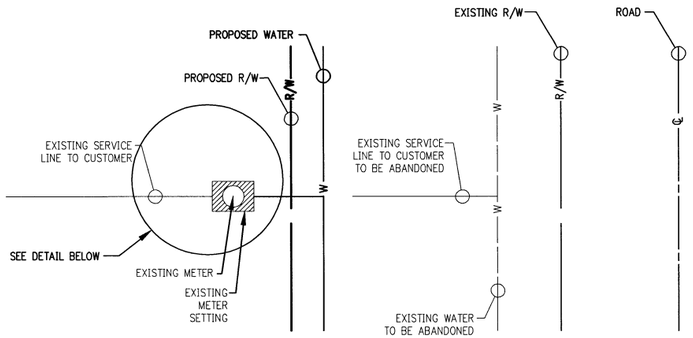
METER SETTING DETAIL WITH BORE

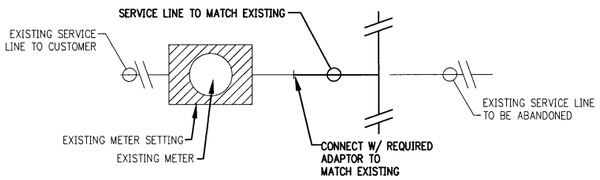
NTS

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
PLOTTED: 11/9/2018 11:22:01 AM SCALE: ----
11/9/2018 11:22:01 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	265	605

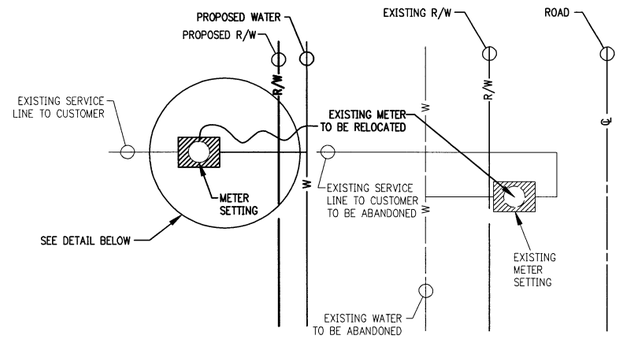
(2) UTILITY DETAIL

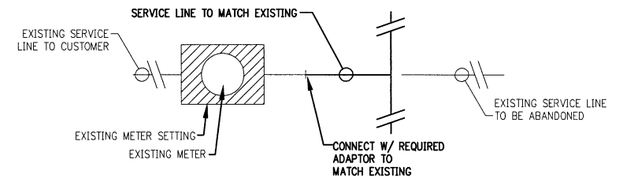




RECONNECT EXISTING WATER METER AND SERVICE LINE

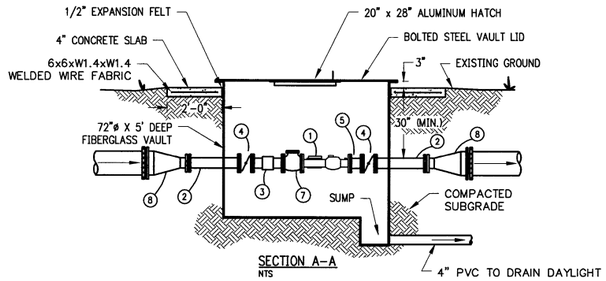
NTS

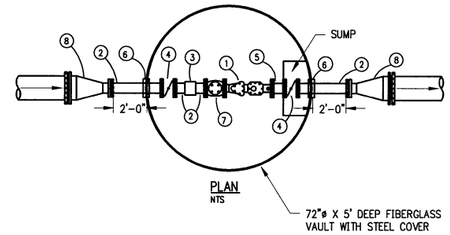




RELOCATE EXISTING WATER METER AND SERVICE LINE

NTS





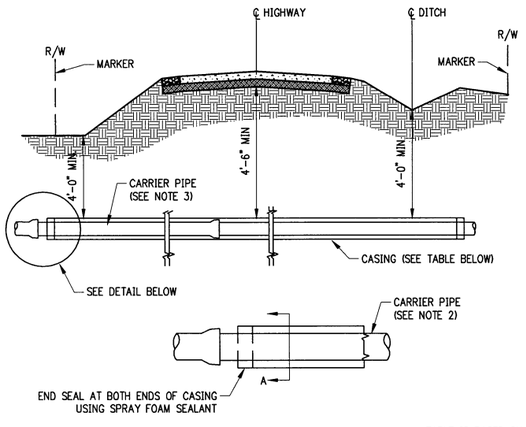
2" MASTER METER

NTS

PIPING LEGEND

1. 2" TURBO METER W/ STRAINER, FLANGED (PER CLINTON WATER SPECIFICATIONS)
2. 2" D.I.P. FLANGED TO PLAIN END
3. 2" COUPLING
4. 2" BUTTERFLY VALVE, LUG STYLE
5. 2" D.I.P. FLANGED TO PLAIN END
6. WATERTIGHT SLEEVE
7. 2" HORIZONAL SWING CHECK VALVE, FLANGED
8. 6" x 2" REDUCER, MJ x MJ W/ RETAINER GLANDS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER ★★★ No. 9620 HUBERT BURNS 11-9-18



NOTES:

1. FOR LENGTH OF CASING PIPE SEE DRAWINGS.
2. CARRIER PIPE SHALL BE POLYETHYLENE PIPE.
3. FOR SIZE OF CARRIER PIPE SEE DRAWINGS.

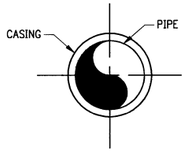
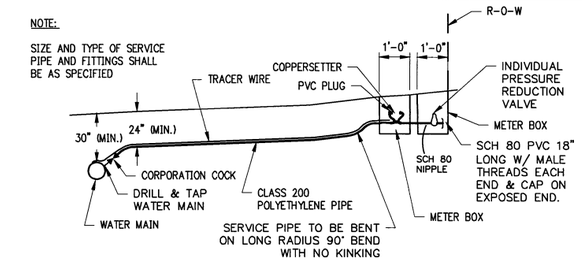


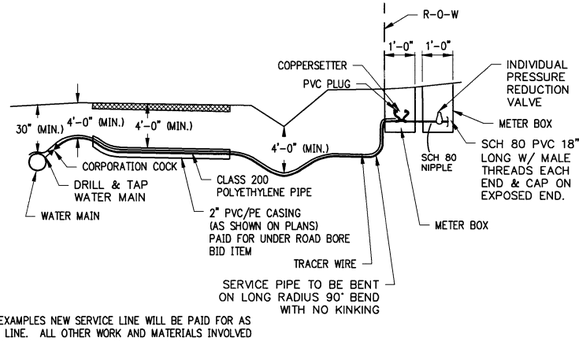
TABLE IS BASED ON PE DR17 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
1"	PE	2"
2"	PE	3"
3"	PE	6"
4"	PE	6"
6"	PE	8"
8"	PE	10"

HIGHWAY BORE WITH POLYETHYLENE PIPE & POLYETHYLENE CASING

N.T.S.



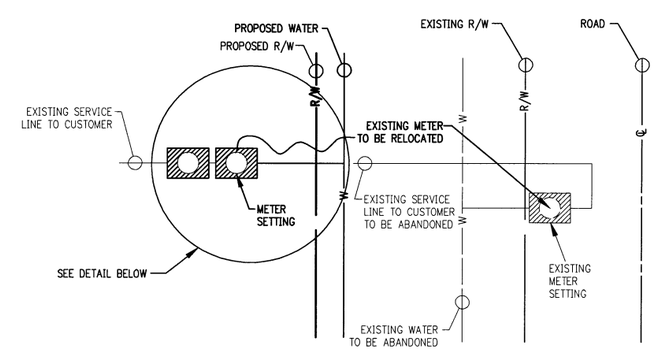


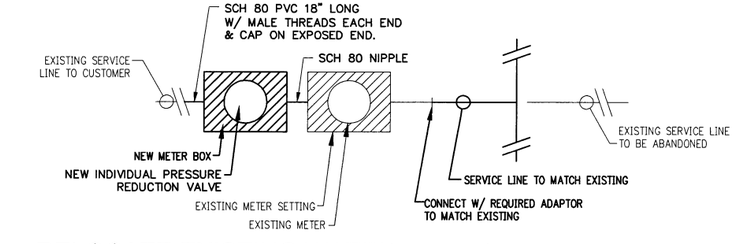
NOTE:

IN ALL EXAMPLES NEW SERVICE LINE WILL BE PAID FOR AS SERVICE LINE. ALL OTHER WORK AND MATERIALS INVOLVED IN MAKING THE TIE IS PAID FOR AS PART OF THE METER SETTING EXCEPT THAT SB-2 BACKFILL AND BITUMINOUS CONCRETE AND/OR CONCRETE REPLACEMENT NECESSARY WILL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.

STANDARD WATER SERVICE WITH BORE & WITH PRESSURE REDUCTION VALVE

NTS





RELOCATE EXISTING WATER METER AND SERVICE LINE ON HIGH PRESSURE LINE

NTS

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
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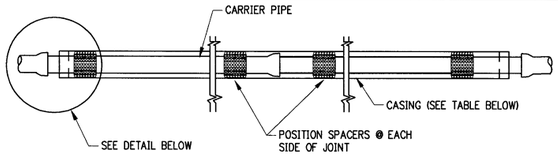
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	266	605

(2) UTILITY DETAIL



SECTION A-A

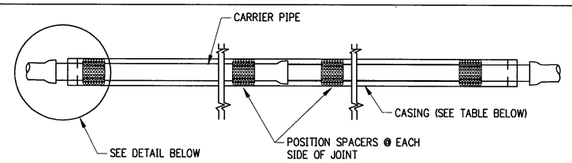
CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	STEEL	4"
3"	STEEL	6"
4"	STEEL	8"
6"	STEEL	10"
8"	STEEL	12"
10"	STEEL	16"
12"	STEEL	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

STEEL CASING & PVC SDR-17/21/26 CARRIER PIPE WITHOUT BELL RESTRAINT HARNESS

N.T.S.



SECTION A-A

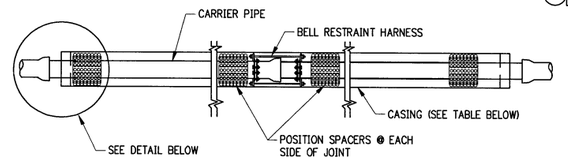
CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
4"	STEEL	8"
6"	STEEL	10"
8"	STEEL	14"
10"	STEEL	16"
12"	STEEL	20"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

STEEL CASING & PVC DR-14/18 CARRIER PIPE WITHOUT BELL RESTRAINT HARNESS

N.T.S.



SECTION A-A

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	STEEL	8"
3"	STEEL	10"
4"	STEEL	12"
6"	STEEL	16"
8"	STEEL	18"
10"	STEEL	20"
12"	STEEL	24"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

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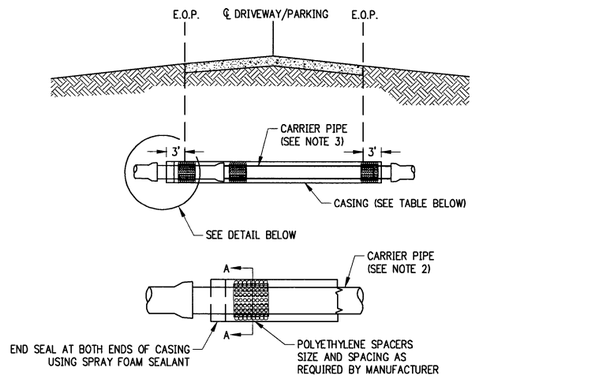
11-9-18

STEEL CASING & PVC SDR-17/21/26 CARRIER PIPE WITH BELL RESTRAINT HARNESS

N.T.S.



SECTION A-A

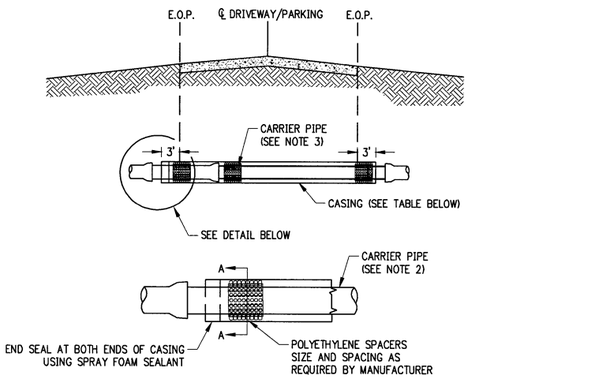
CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	STEEL	4"
3"	STEEL	6"
4"	STEEL	8"
6"	STEEL	10"
8"	STEEL	12"
10"	STEEL	16"
12"	STEEL	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

DRIVEWAY/PARKING CROSSING WITH STEEL CASING & PVC SDR-17/21/26 CARRIER PIPE WITHOUT BELL RESTRAINT HARNESS

N.T.S.



SECTION A-A

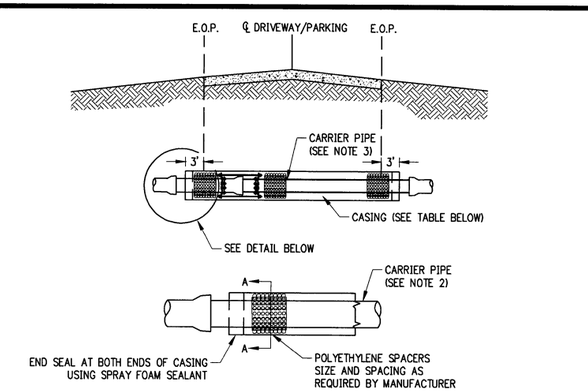
CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
4"	STEEL	8"
6"	STEEL	10"
8"	STEEL	14"
10"	STEEL	16"
12"	STEEL	20"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

DRIVEWAY/PARKING CROSSING WITH STEEL CASING & PVC DR-14/18 CARRIER PIPE WITHOUT BELL RESTRAINT HARNESS

N.T.S.



SECTION A-A

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	STEEL	8"
3"	STEEL	10"
4"	STEEL	12"
6"	STEEL	16"
8"	STEEL	18"
10"	STEEL	20"
12"	STEEL	24"

DRIVEWAY/PARKING CROSSING WITH STEEL CASING & PVC SDR-17/21/26 CARRIER PIPE WITH BELL RESTRAINT HARNESS

N.T.S.

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300.AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
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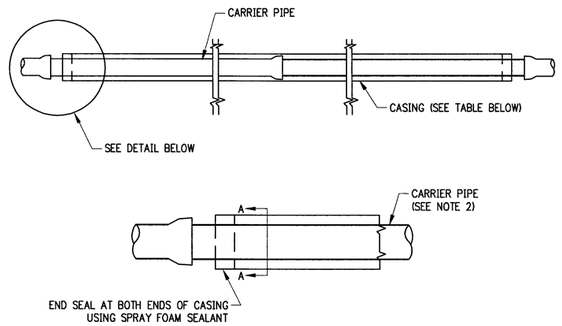
				6	ARK.			
				JOB NO.		CA0801	267	605

(2) UTILITY DETAIL



SECTION A-A

TABLE IS BASED ON PVC SDR 35 & PS46, ASTM 679 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	P.V.C.	4"
3"	P.V.C.	6"
4"	P.V.C.	8"
6"	P.V.C.	10"
8"	P.V.C.	12"
10"	P.V.C.	15"
12"	P.V.C.	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

PVC CASING & PVC SDR-17/21/26 CARRIER PIPE

N.T.S.

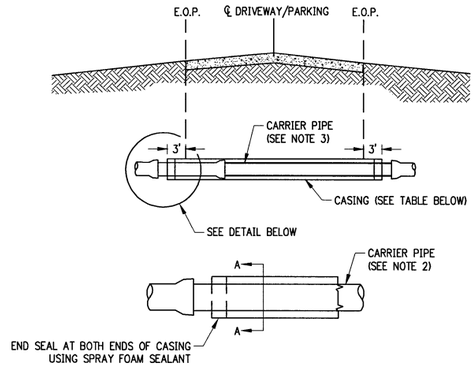


TABLE IS BASED ON PVC SDR 35 & PS46, ASTM 679 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	P.V.C.	4"
3"	P.V.C.	6"
4"	P.V.C.	8"
6"	P.V.C.	10"
8"	P.V.C.	12"
10"	P.V.C.	15"
12"	P.V.C.	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

DRIVEWAY/PARKING CROSSING WITH PVC CASING & PVC SDR-17/21/26 CARRIER PIPE

N.T.S.

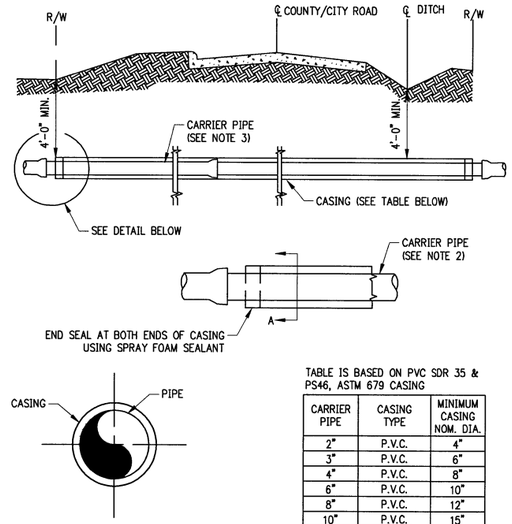


TABLE IS BASED ON PVC SDR 35 & PS46, ASTM 679 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	P.V.C.	4"
3"	P.V.C.	6"
4"	P.V.C.	8"
6"	P.V.C.	10"
8"	P.V.C.	12"
10"	P.V.C.	15"
12"	P.V.C.	18"

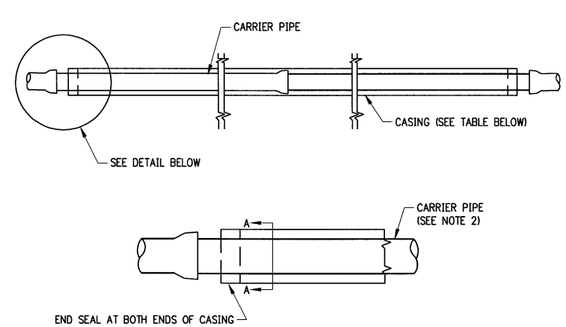
NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

COUNTY ROAD CROSSING WITH PVC CASING & PVC SDR-17/21/26 CARRIER PIPE

N.T.S.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18



SECTION A-A

TABLE IS BASED ON PVC SDR 35 & PS46, ASTM 679 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
4"	P.V.C.	8"
6"	P.V.C.	10"
8"	P.V.C.	15"
10"	P.V.C.	18"
12"	P.V.C.	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

PVC CASING & PVC DR-14/18 CARRIER PIPE

N.T.S.

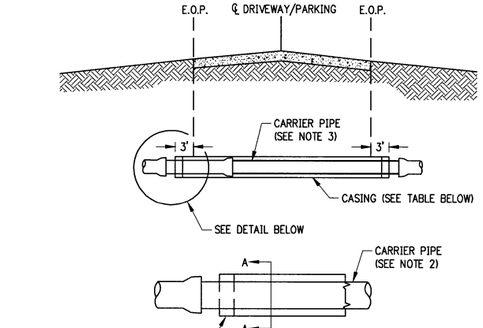


TABLE IS BASED ON PVC SDR 35 & PS46, ASTM 679 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
4"	P.V.C.	8"
6"	P.V.C.	10"
8"	P.V.C.	15"
10"	P.V.C.	18"
12"	P.V.C.	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

DRIVEWAY/PARKING CROSSING WITH PVC CASING & PVC DR-14/18 CARRIER PIPE

N.T.S.

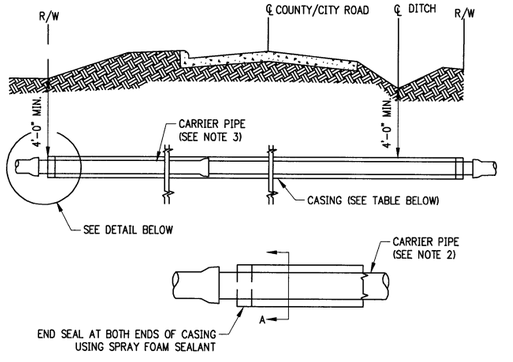


TABLE IS BASED ON PVC SDR 35 & PS46, ASTM 679 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
4"	P.V.C.	8"
6"	P.V.C.	10"
8"	P.V.C.	15"
10"	P.V.C.	18"
12"	P.V.C.	18"

NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

COUNTY ROAD CROSSING WITH PVC CASING & PVC DR-14/18 CARRIER PIPE

N.T.S.

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
PLOTTED: 11/9/2018 11:22:08 AM SCALE: ----
11/9/2018 11:22:08 AM

DATE REVISED	DATE FILNED	DATE REVISED	DATE FILNED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	268	665

(2) UTILITY DETAIL

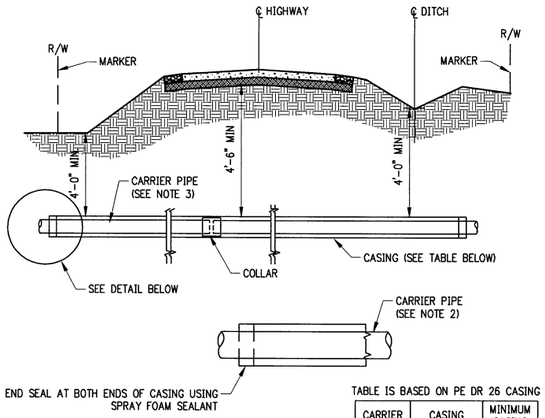


TABLE IS BASED ON PE DR 26 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	P.E.	6"
3"	P.E.	6"
4"	P.E.	8"
6"	P.E.	10"
8"	P.E.	14"
10"	P.E.	16"

NOTES:

1. FOR LENGTH OF CASING PIPE SEE DRAWINGS.
2. CARRIER PIPE SHALL BE CERTA-LOK YELOMINE PIPE.
3. FOR SIZE OF CARRIER PIPE SEE DRAWINGS.
4. INSTALL CASING SPACERS PER MANUFACTURERS RECOMMENDATIONS

HIGHWAY BORE WITH CERTA-LOK YELOMINE PIPE & POLYETHYLENE CASING

N.T.S.

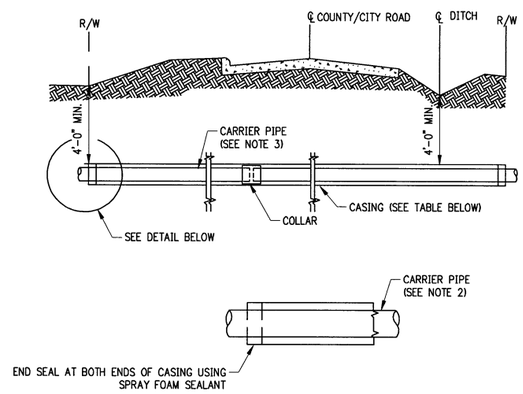


TABLE IS BASED ON PE DR 26 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	P.E.	6"
3"	P.E.	6"
4"	P.E.	8"
6"	P.E.	10"
8"	P.E.	14"
10"	P.E.	16"

NOTES:

1. FOR LENGTH OF CASING PIPE SEE DRAWINGS.
2. CARRIER PIPE SHALL BE CERTA-LOK YELOMINE PIPE.
3. FOR SIZE OF CARRIER PIPE SEE DRAWINGS.
4. INSTALL CASING SPACERS PER MANUFACTURERS RECOMMENDATIONS

COUNTY ROAD BORE WITH CERTA-LOK YELOMINE PIPE & POLYETHYLENE CASING

N.T.S.

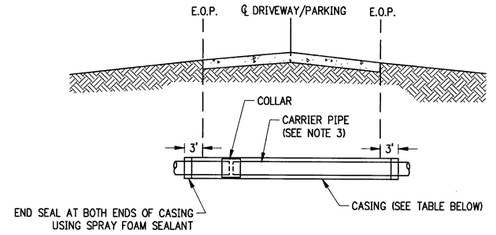


TABLE IS BASED ON PE DR 26 CASING

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	P.E.	6"
3"	P.E.	6"
4"	P.E.	8"
6"	P.E.	10"
8"	P.E.	14"
10"	P.E.	16"

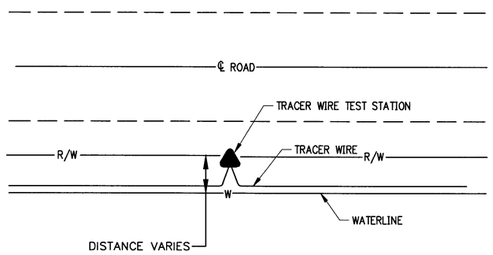
NOTES:

1. FOR LENGTH OF CASING PIPE SEE DRAWINGS.
2. CARRIER PIPE SHALL BE CERTA-LOK YELOMINE PIPE.
3. FOR SIZE OF CARRIER PIPE SEE DRAWINGS.
4. INSTALL CASING SPACERS PER MANUFACTURERS RECOMMENDATIONS

DRIVEWAY/PARKING BORE WITH CERTA-LOK YELOMINE PIPE & POLYETHYLENE CASING

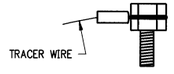
N.T.S.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 9620
HUBERT BURNS
11-9-18

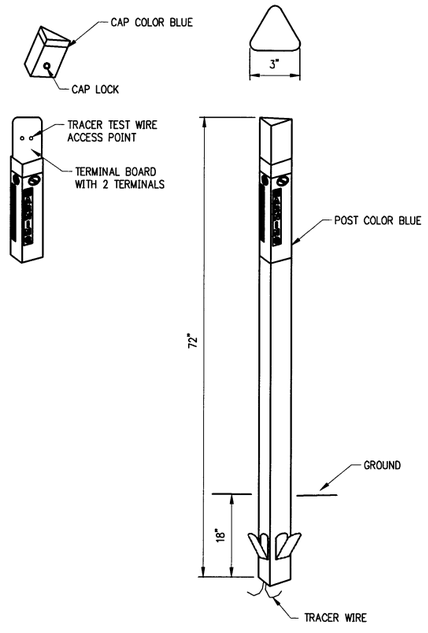


NOTE:

1. TEST STATIONS TO BE LOCATED IN FENCE ROWS WHERE PERPENDICULAR TO WATERLINE OR ON RIGHT OF WAY WHEN PARALLEL TO WATERLINE
2. TRACER WIRE TO BE SPLICED WITH TRACER WIRE SPLICE KIT.
3. ALL NEW TRACER WIRE TO BE CONNECTED TO EXISTING TRACER WIRE.
4. TRACER WIRE TEST STATIONS ARE TO BE USED TO TEST THE TRACER WIRE.



BRASS TERMINAL

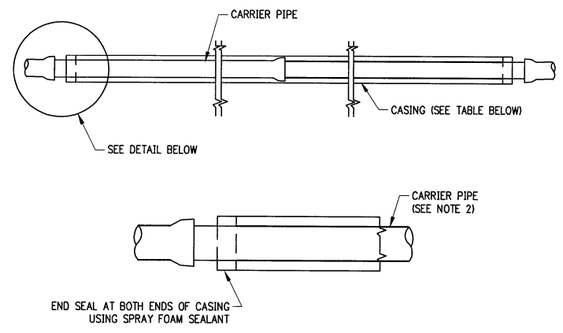


BURIAL NOTE:

1. DIG 18" HOLE
2. FOLD OUT TRIGRIP ANCHOR BARBS
3. INSET TRIVEW INTO HOLE SO THAT BURIAL DEPTH MARK IS AT GROUND LEVEL
4. FILL IN HOLE WITH DIRT. STRAIGHTEN AS NECESSARY FREQUENTLY TAMPING THE SOIL.

TRACER WIRE TEST STATION

N.T.S.



NOTES:

1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. CARRIER PIPE 1 1/2" IN DIA. AND SMALLER SHALL BE POLYETHYLENE SERVICE PIPE. ALL OTHER SHALL BE AS SHOWN ON PLANS.
3. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
2"	PE DIPS DR-26	6"
3"	PE DIPS DR-26	6"
4"	PE DIPS DR-26	8"
6"	PE DIPS DR-26	10"
8"	PE DIPS DR-26	14"
10"	PE DIPS DR-26	16"
12"	PE DIPS DR-26	18"

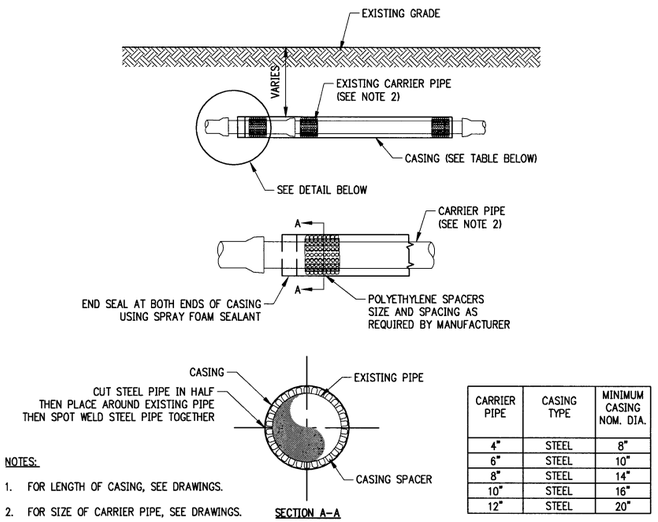
PE CASING & PVC SDR-17/21/26 OR DR-14/18 CARRIER PIPE

NTS

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300_AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
PLOTTED: 11/9/2018 11:22:10 AM SCALE: ----
11/9/2018 11:22:10 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	269	605

(2) UTILITY DETAIL



CARRIER PIPE	CASING TYPE	MINIMUM CASING NOM. DIA.
4"	STEEL	8"
6"	STEEL	10"
8"	STEEL	14"
10"	STEEL	16"
12"	STEEL	20"

NOTES:

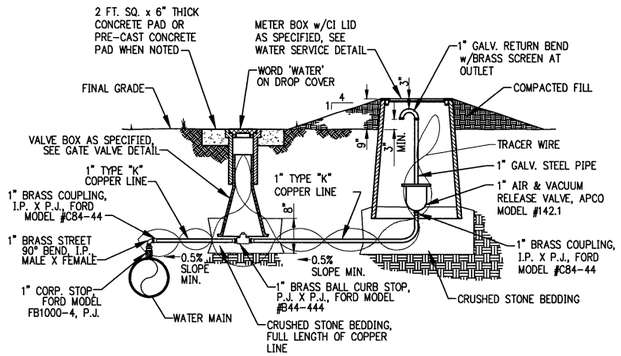
1. FOR LENGTH OF CASING, SEE DRAWINGS.
2. FOR SIZE OF CARRIER PIPE, SEE DRAWINGS.

CASE EXISTING PVC DR-14/18 CARRIER PIPE WITH STEEL CASING & WITHOUT BELL RESTRAINT HARNESS

N.T.S.

NOTES:

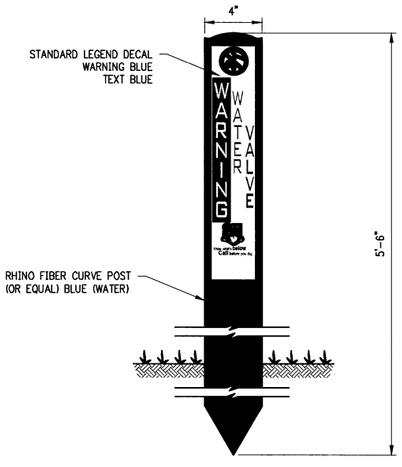
1. COPPER LINE SHALL BE CONTINUOUS UPHILL GRADE FROM WATER MAIN TO AIR & VAC. RELEASE VALVE.
2. AIR & VAC. RELEASE VALVE ASSEMBLY MAY BE INSTALLED ABOVE AND PARALLEL TO WATER MAIN (COMMON TRENCH) IF NOTED ON PLANS AND NOT SUBJECT TO VEHICLE TRAFFIC.



AIR & VACUUM RELEASE VALVE ASSEMBLY

NTS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 9620
HUBERT BURNS
11-9-18

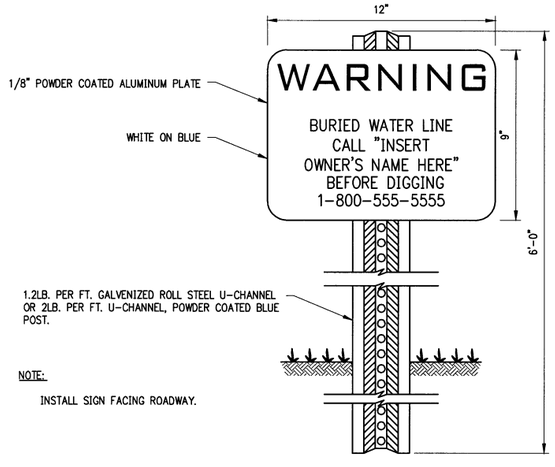


NOTE:

INSTALL SIGN FACING ROADWAY.

WATER VALVE MARKER: SIGN & FIBERCURVE POST

N.T.S.

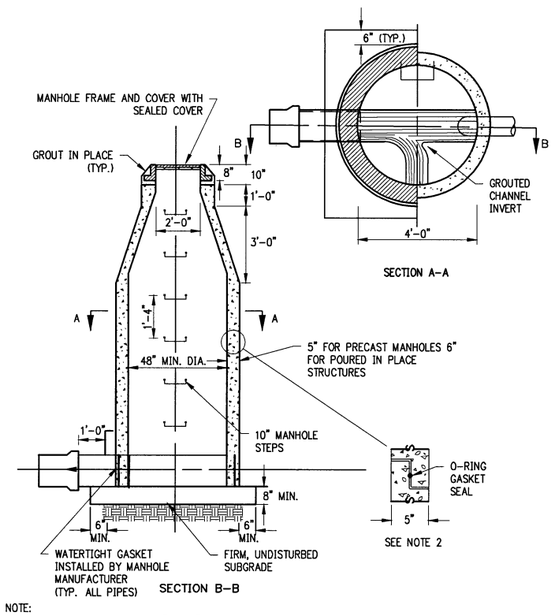


NOTE:

INSTALL SIGN FACING ROADWAY.

HWY CROSSING MARKER: SIGN & FIBERCURVE POST

N.T.S.



NOTE:

1. FOR PRECAST MANHOLES 4" TO 6" OF GRANULAR BEDDING IS REQUIRED UNDER MANHOLE.
2. A MIN. WALL THICKNESS OF 8" IS REQUIRED FOR THE SECTIONS OF MANHOLES THAT EXTEND TO DEPTHS GREATER THAN 10'.

STANDARD MANHOLE WITH STEPS

NTS

USER:BRADLEY NELSON
DESIGN FILE: G:\17105300-AHTDCA0801\INFRASTRUCTURE\CIVIL\DWG\UTILITY DETAILS.DWG
PLOTTED: 11/9/2018 11:22:12 AM SCALE: ----
11/9/2018 11:22:12 AM

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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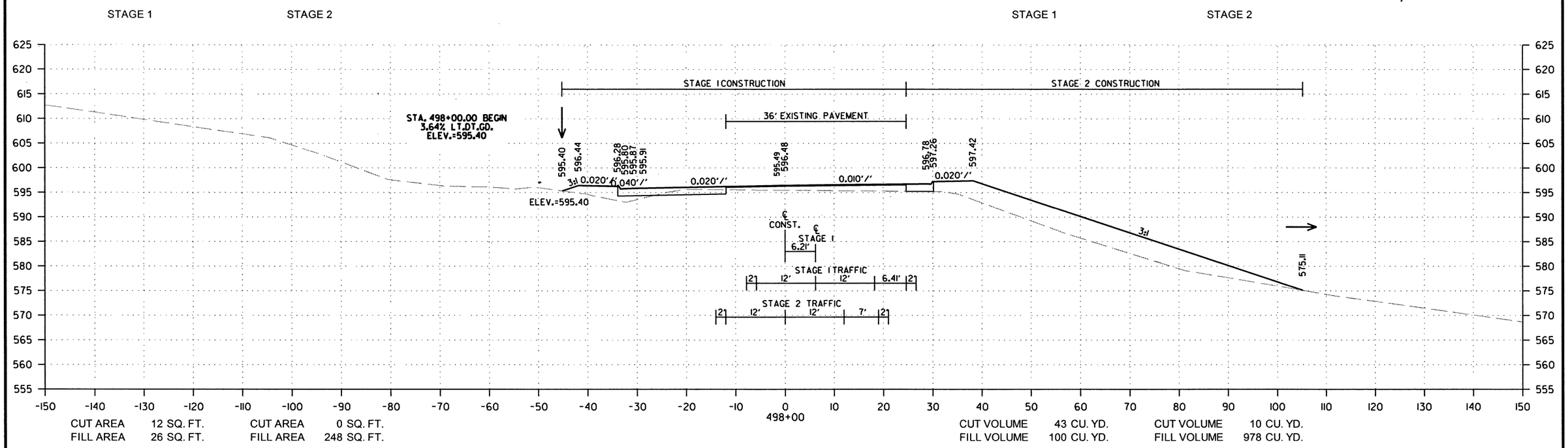
				JOB NO.		CA0801	270	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 497+04.36 TO STA. 498+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
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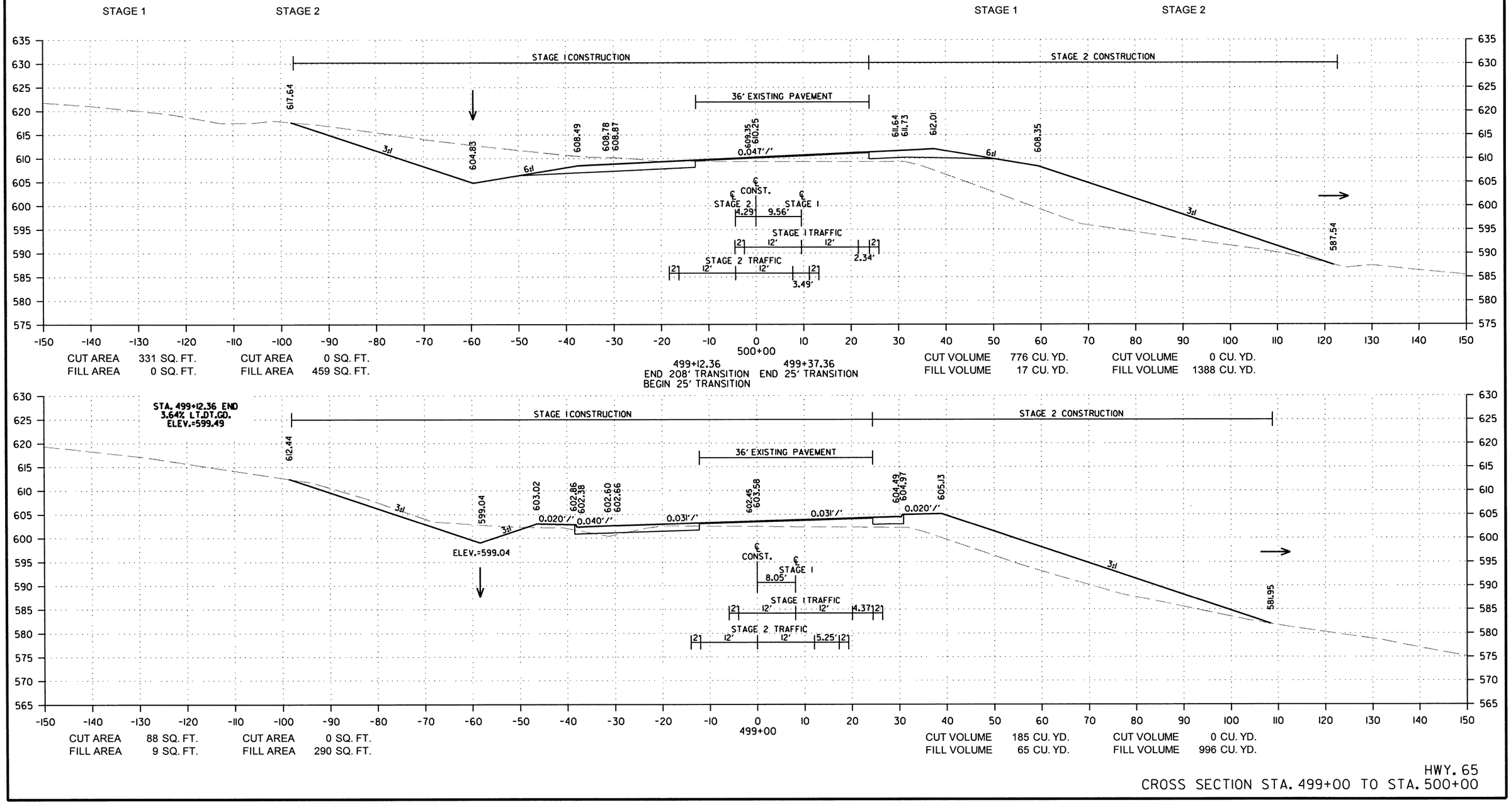
(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 499+00 TO STA. 500+00

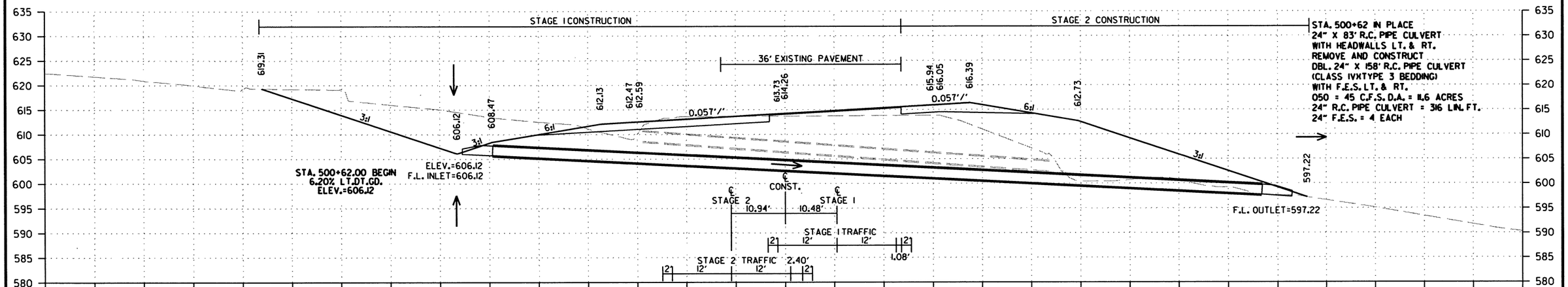
11/13/2018

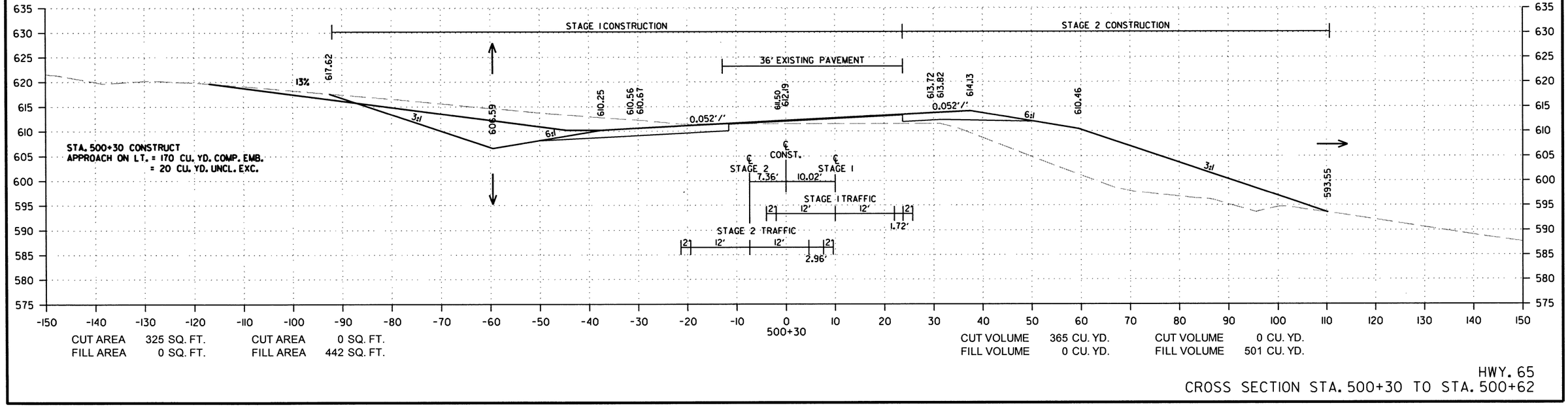
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	272	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





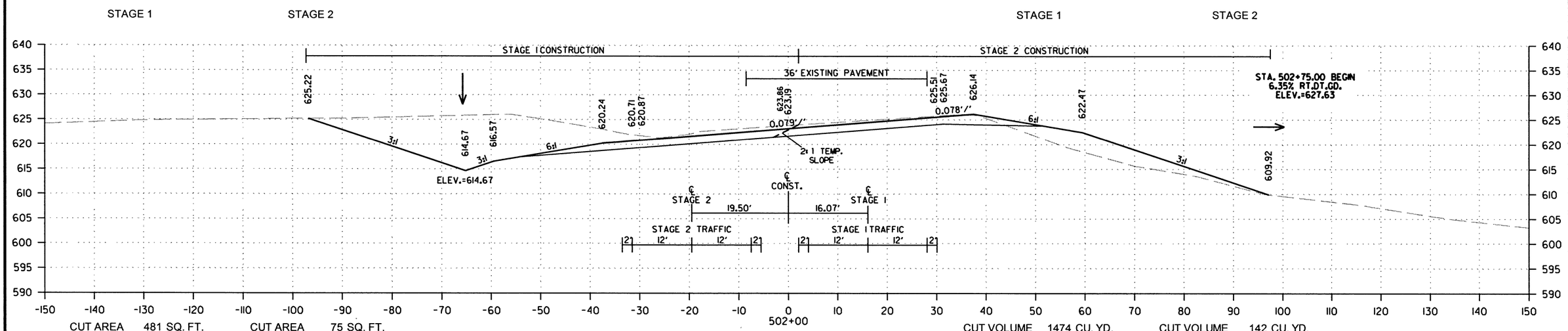
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 500+30 TO STA. 500+62

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	273	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 501+00 TO STA. 502+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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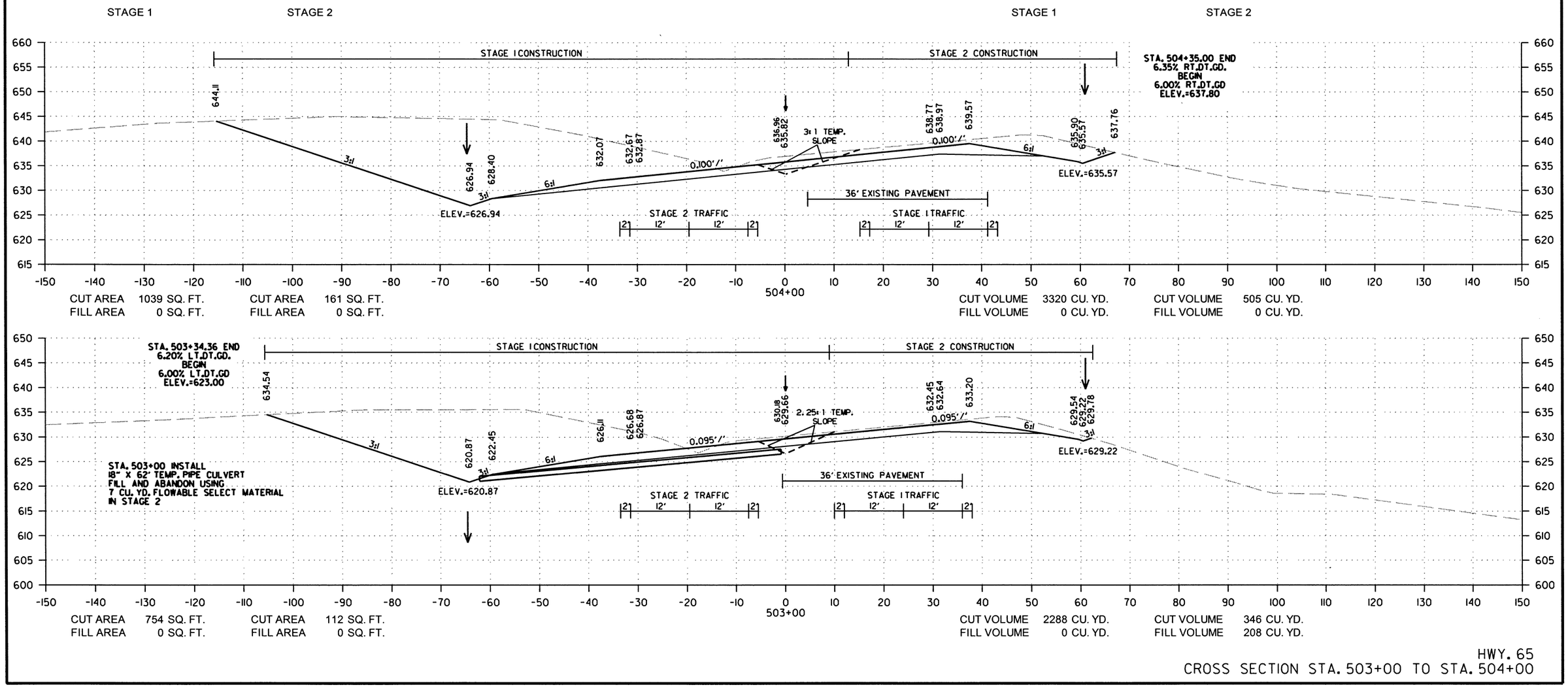
(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 503+00 TO STA. 504+00

11/13/2018

RCA0801.DGN

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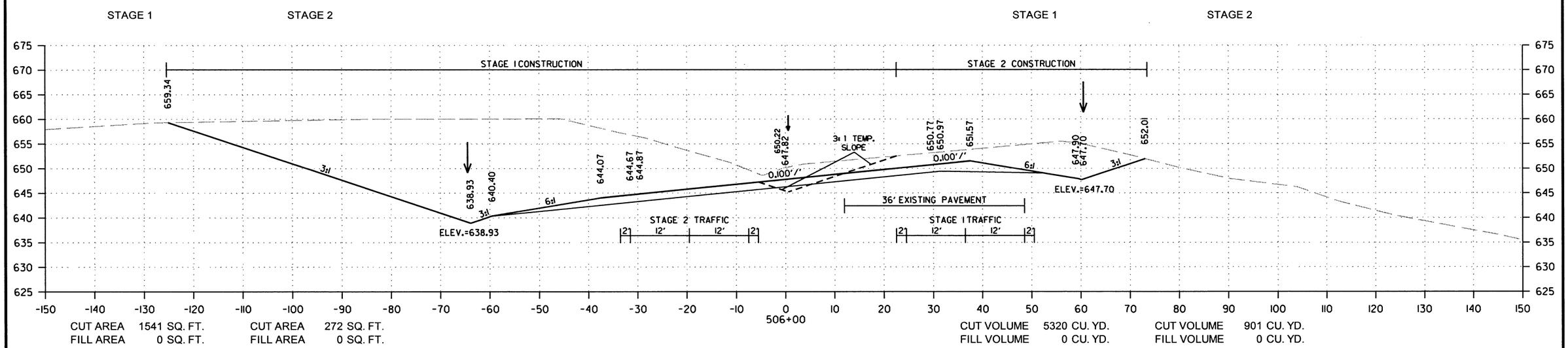
(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 505+00 TO STA. 506+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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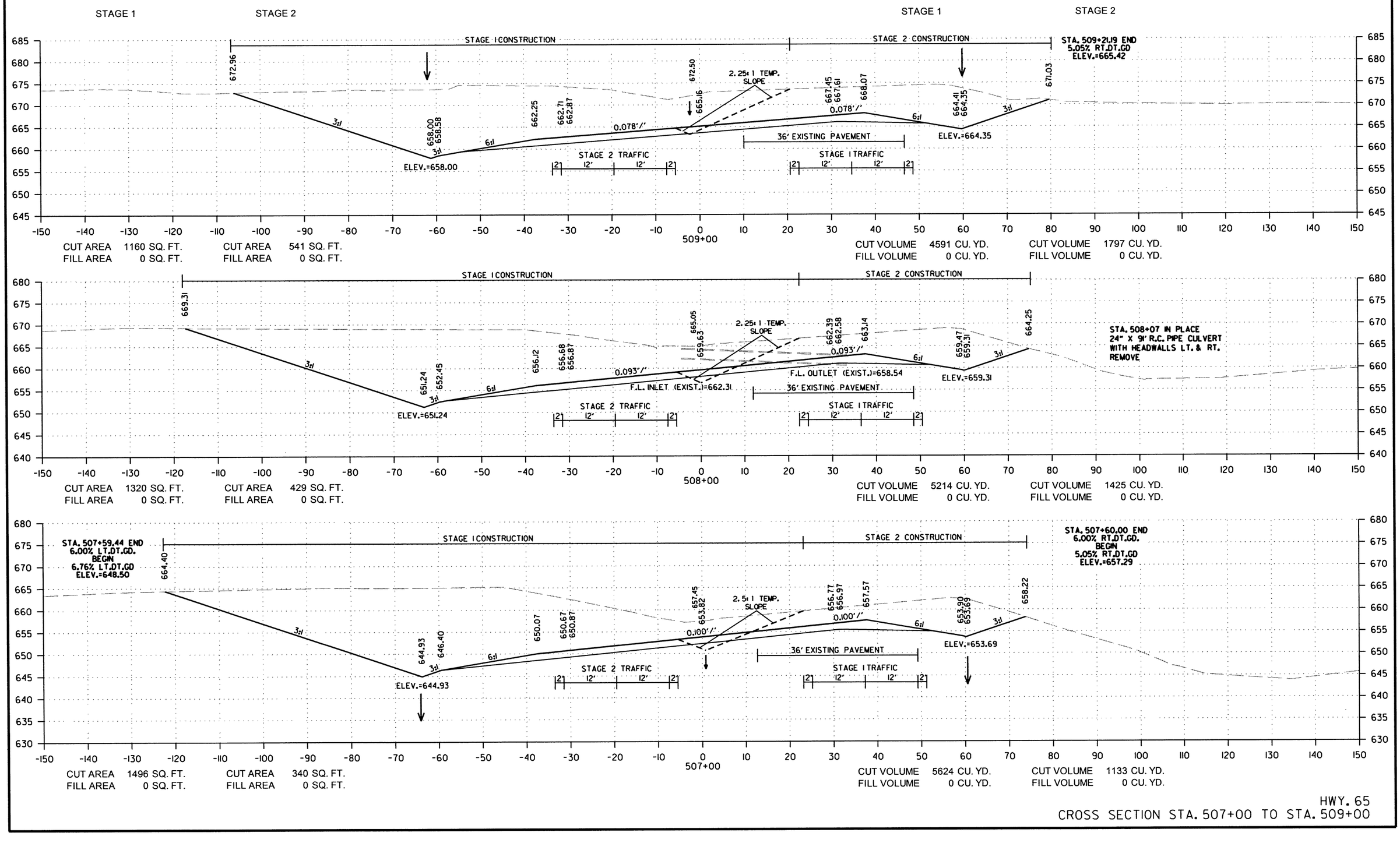

HWY. 65

CROSS SECTION STA. 507+00 TO STA. 509+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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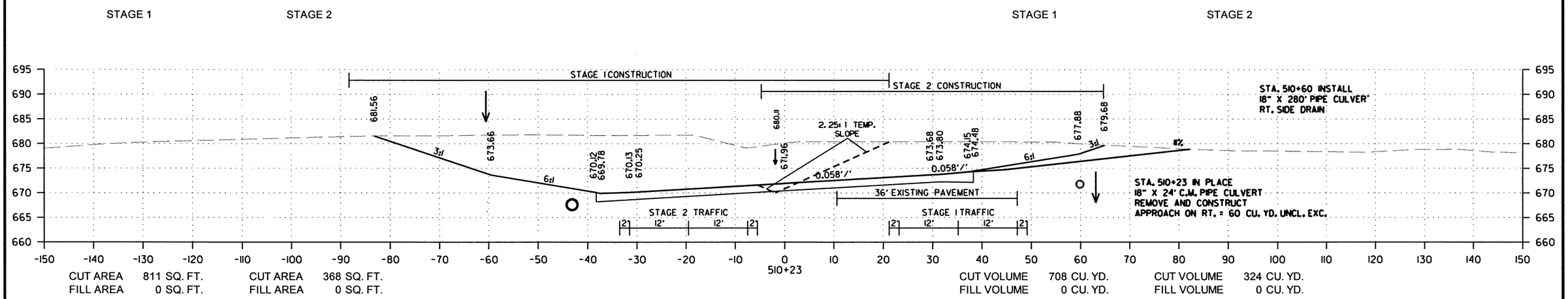
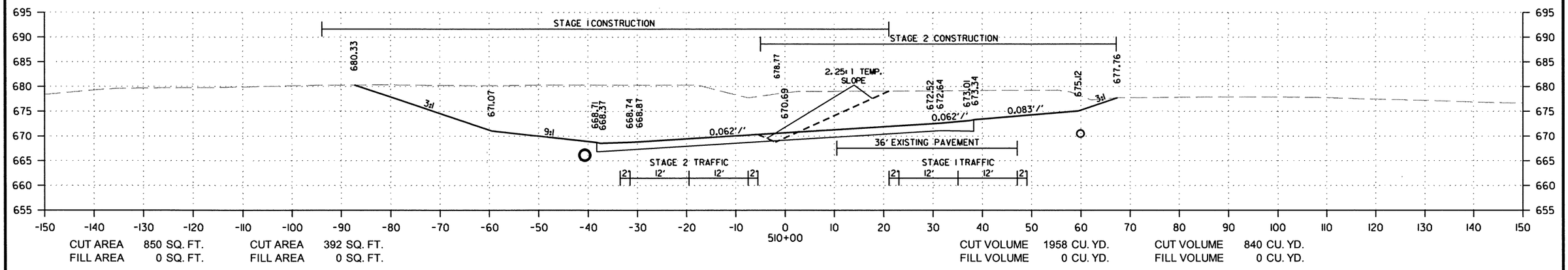
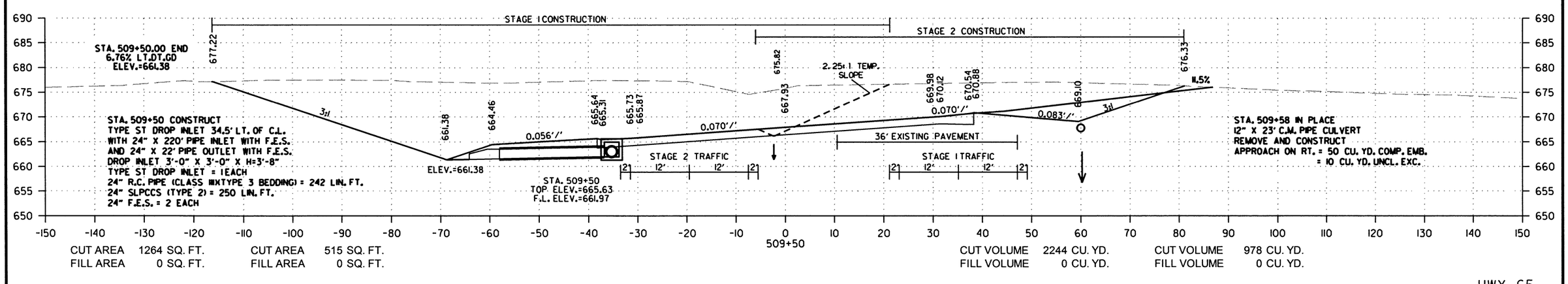
(2) CROSS SECTIONS







11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 509+50 TO STA. 510+23

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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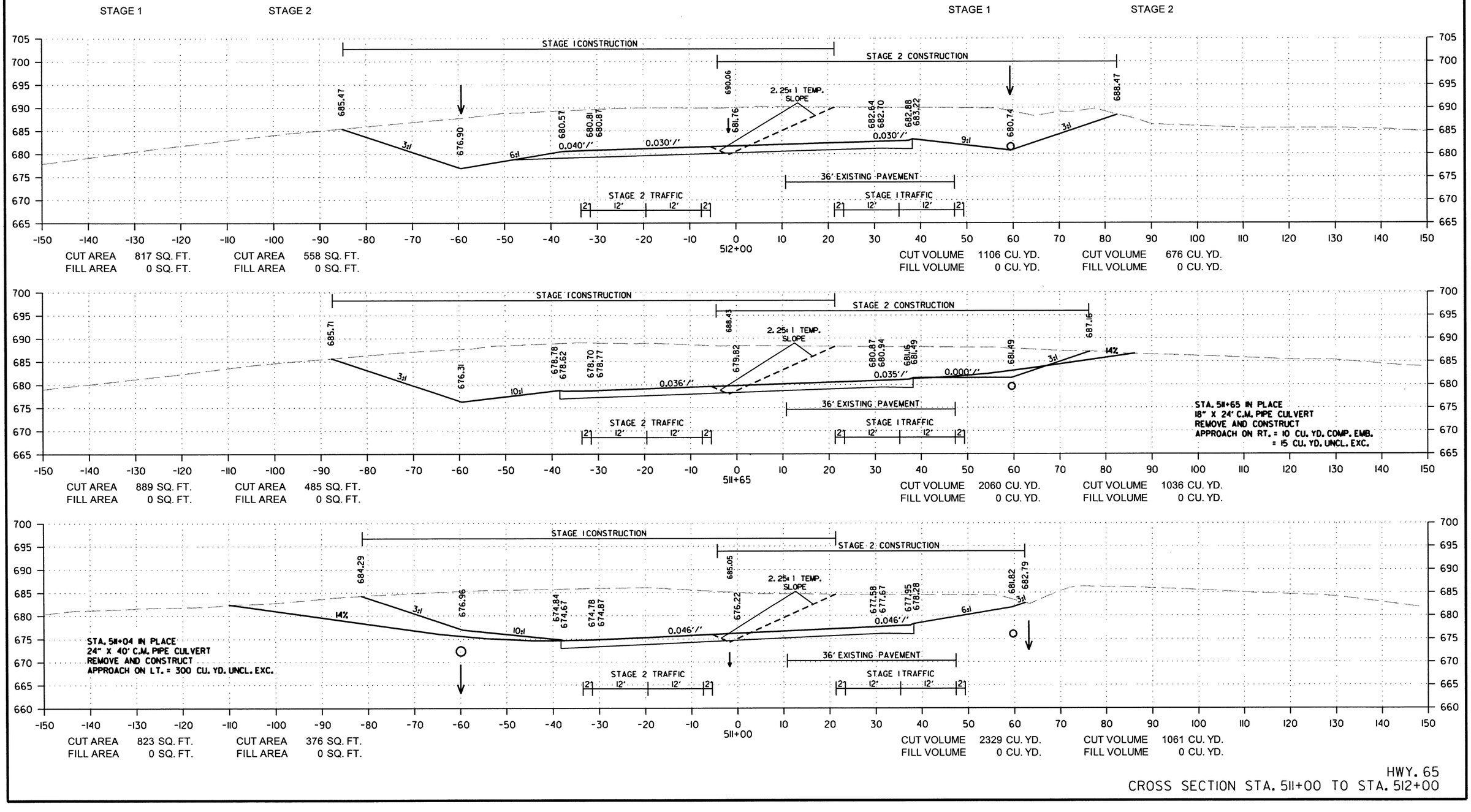
				JOB NO.		CA0801	278	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 511+00 TO STA. 512+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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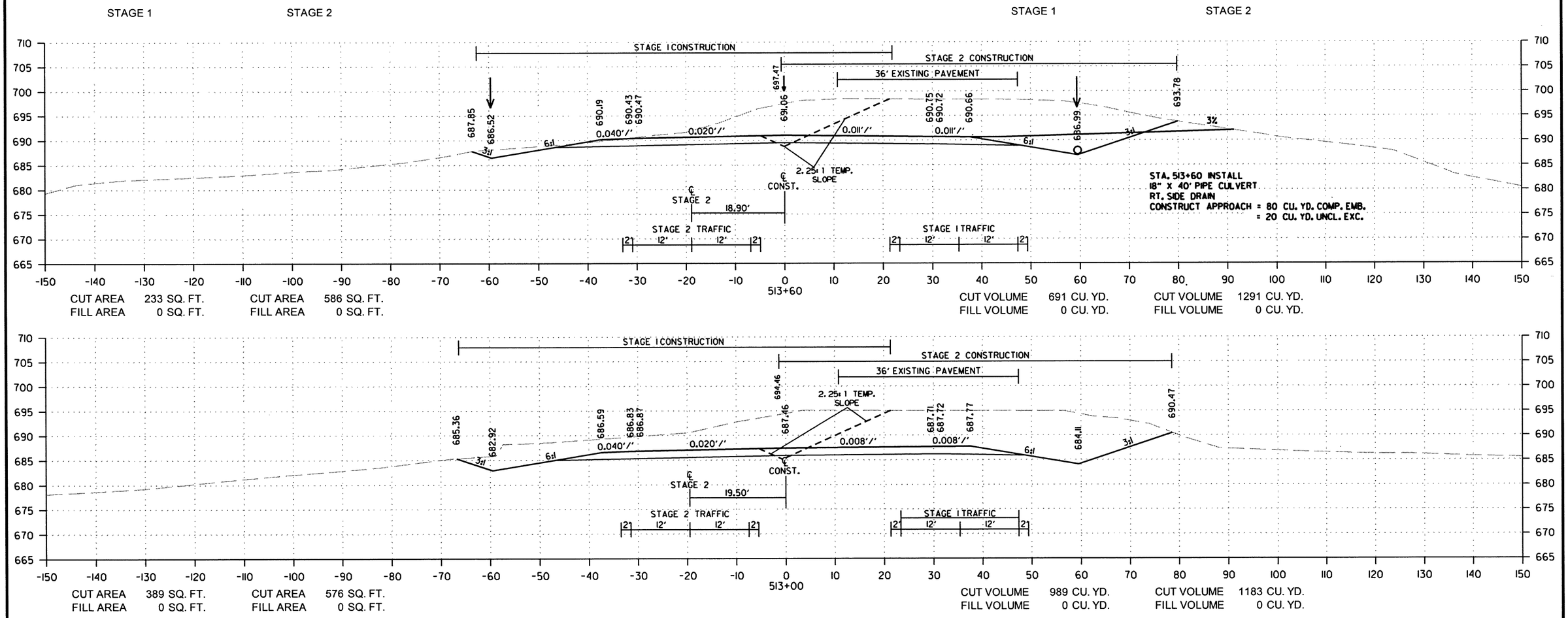
(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 512+46 TO STA. 513+60

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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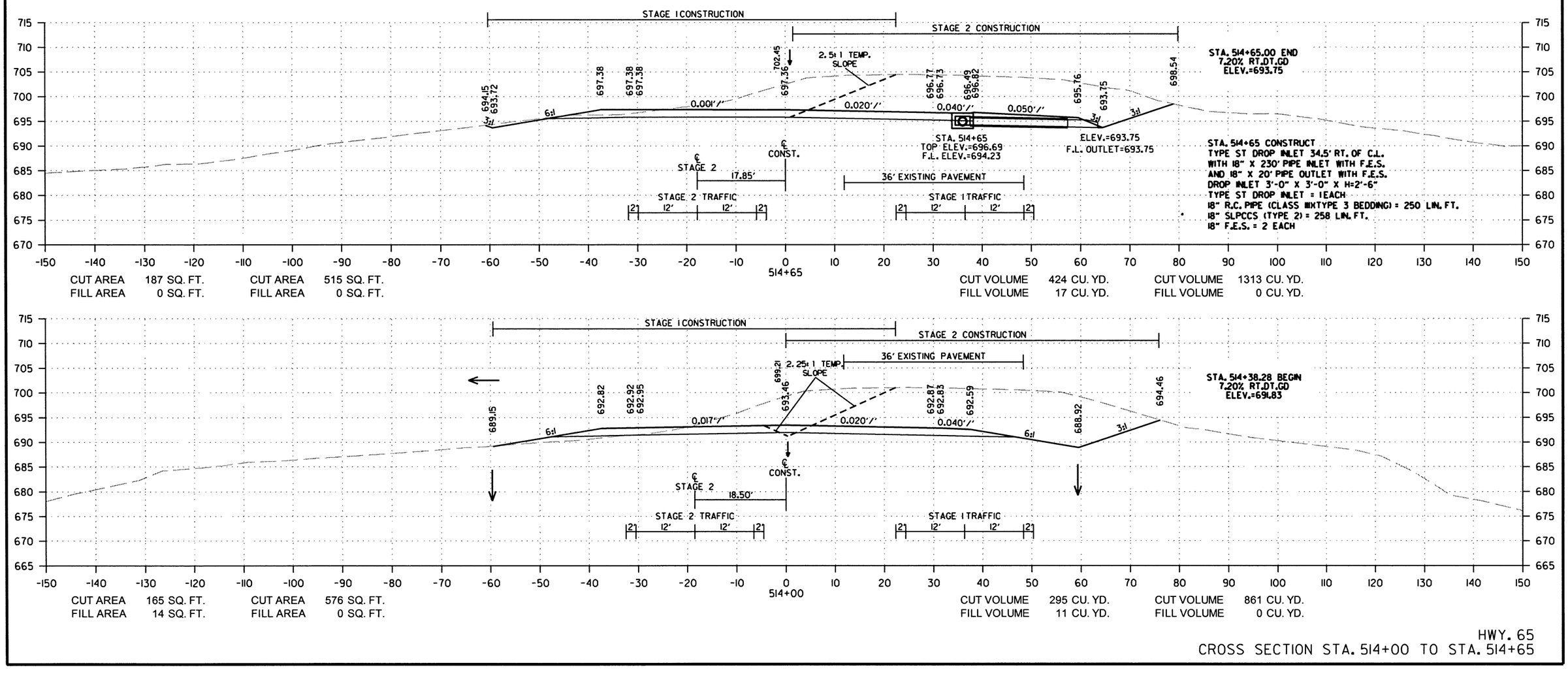
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 514+00 TO STA. 514+65

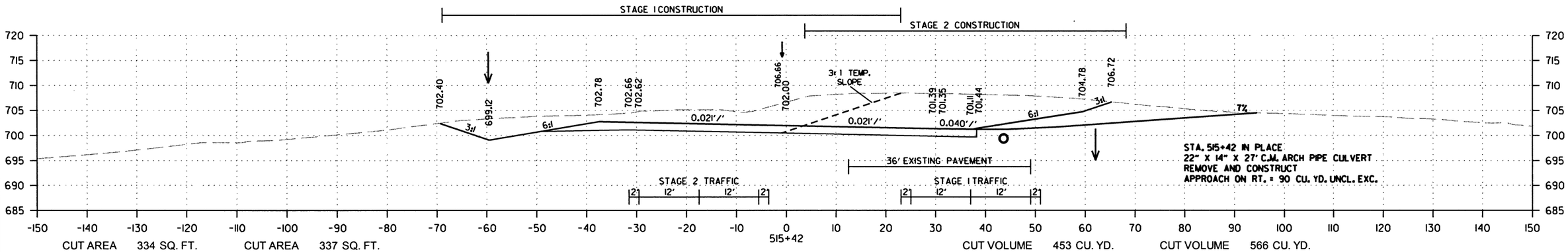
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	281	605

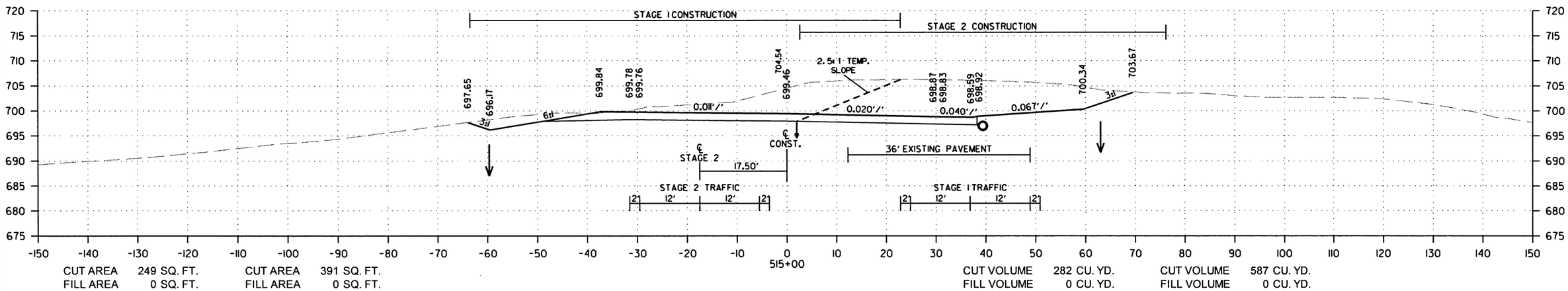
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 334 SQ. FT. CUT AREA 337 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 453 CU. YD. CUT VOLUME 566 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 249 SQ. FT. CUT AREA 391 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 282 CU. YD. CUT VOLUME 587 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 65
CROSS SECTION STA. 515+00 TO STA. 515+42

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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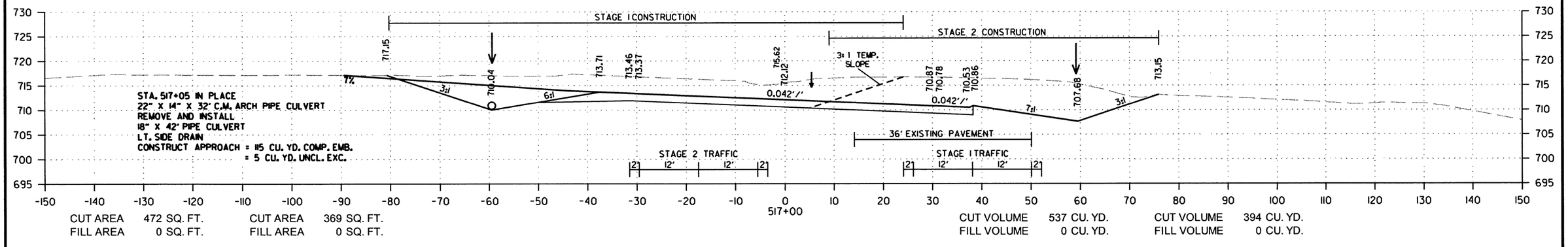
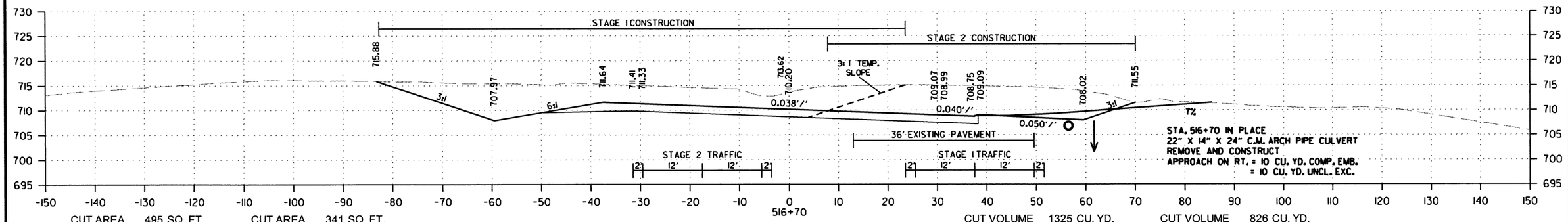
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



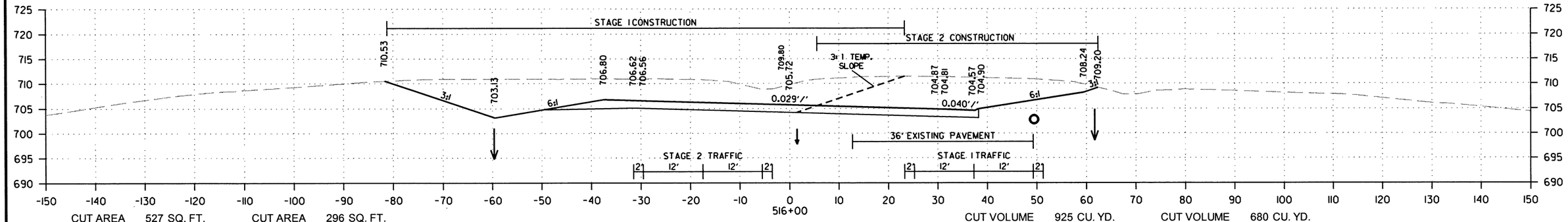
CUT AREA 472 SQ. FT. CUT AREA 369 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 537 CU. YD. CUT VOLUME 394 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 495 SQ. FT. CUT AREA 341 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 1325 CU. YD. CUT VOLUME 826 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 527 SQ. FT. CUT AREA 296 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 925 CU. YD. CUT VOLUME 680 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.

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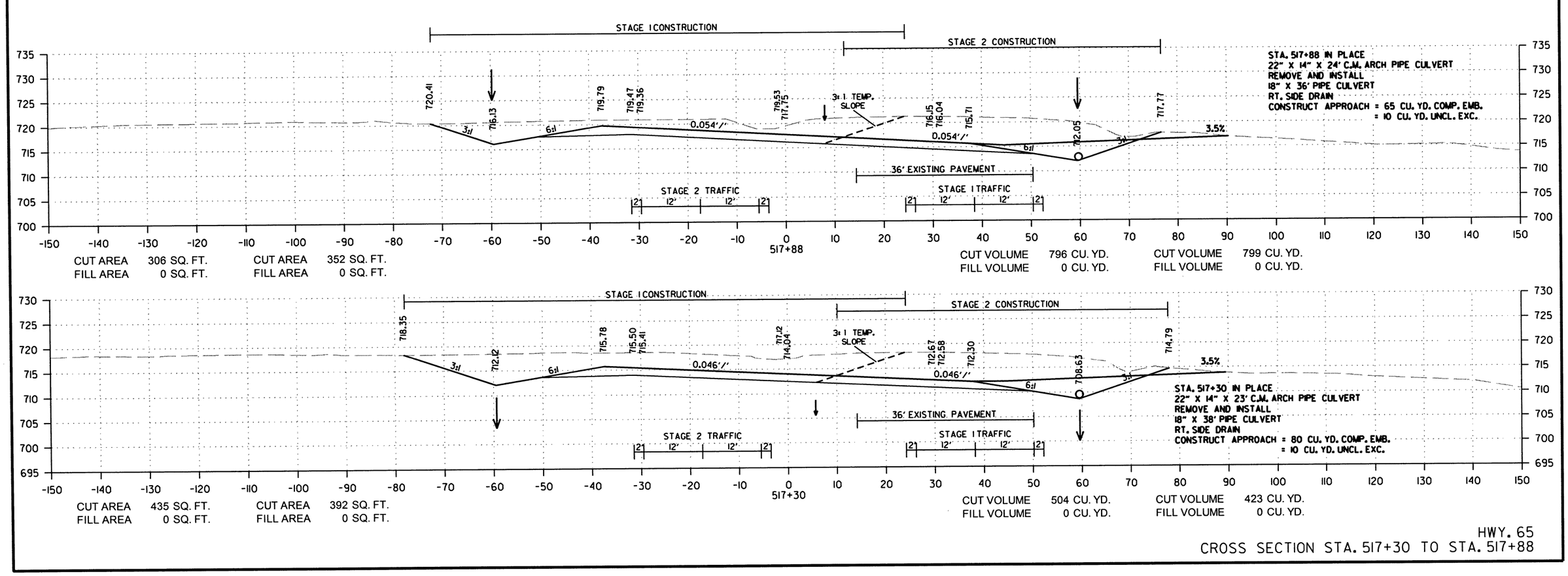
HWY. 65
CROSS SECTION STA. 516+00 TO STA. 517+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	283	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 517+30 TO STA. 517+88

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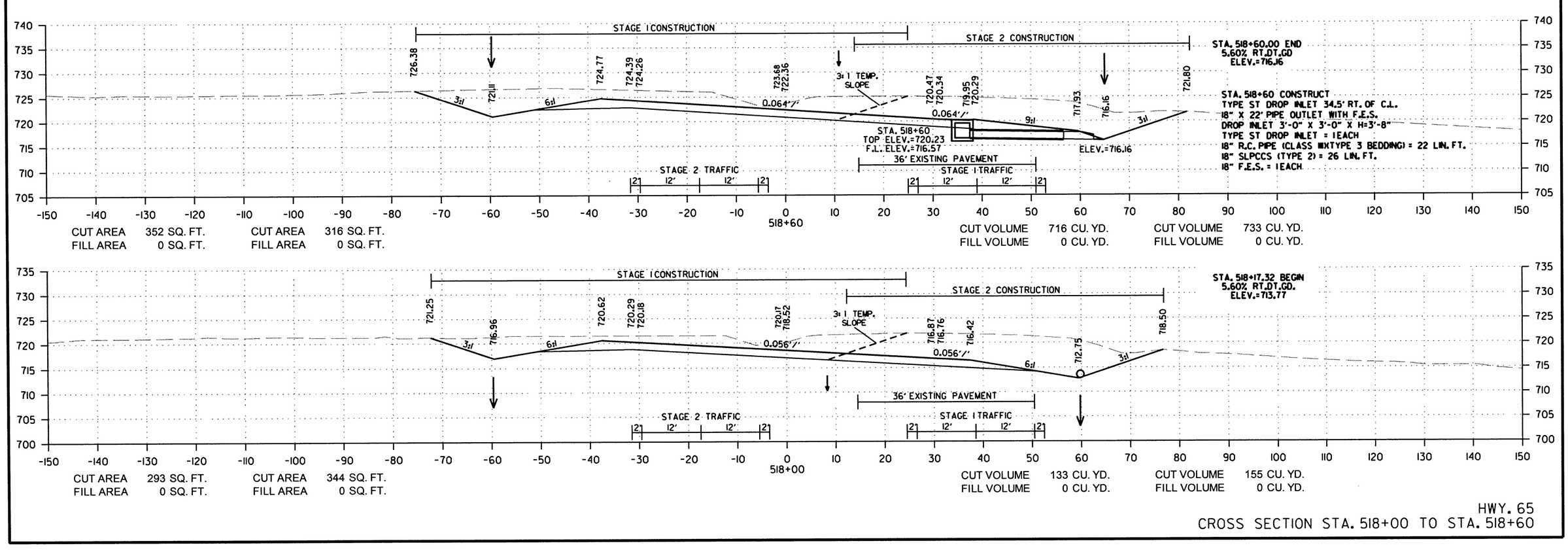
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	284	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 518+00 TO STA. 518+60

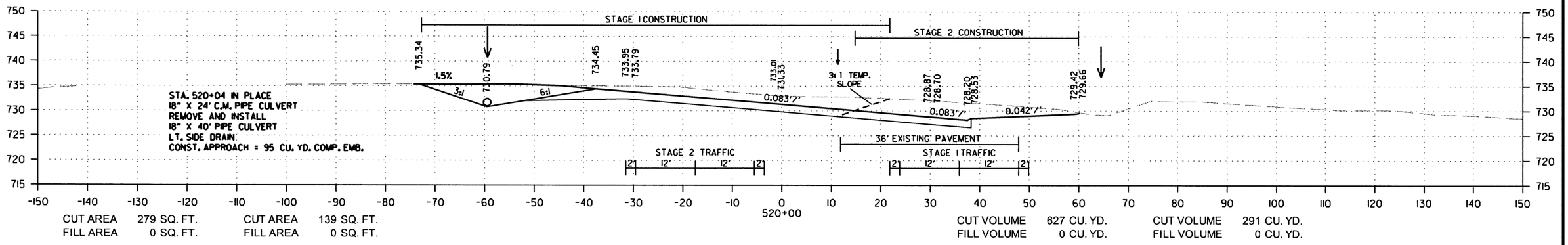
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	285	605

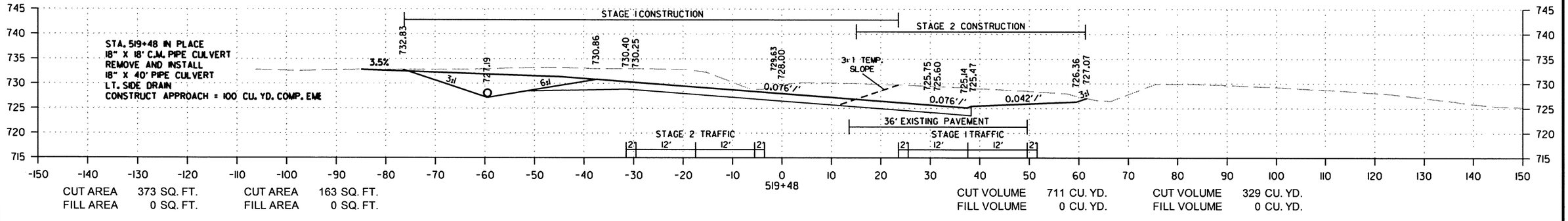
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



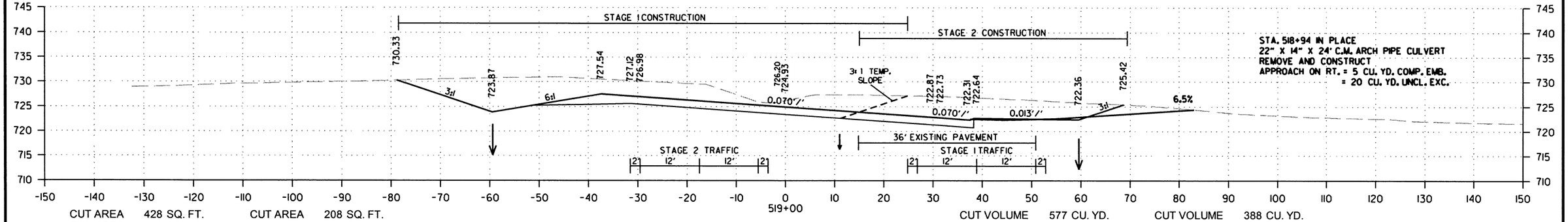
CUT AREA 279 SQ. FT. CUT AREA 139 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 627 CU. YD. CUT VOLUME 291 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 373 SQ. FT. CUT AREA 163 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 711 CU. YD. CUT VOLUME 329 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 428 SQ. FT. CUT AREA 208 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 577 CU. YD. CUT VOLUME 388 CU. YD.
FILL VOLUME 0 CU. YD. FILL VOLUME 0 CU. YD.

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HWY. 65
CROSS SECTION STA. 519+00 TO STA. 520+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	286	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2

CUT AREA	67 SQ. FT.	CUT AREA	31 SQ. FT.	CUT VOLUME	67 CU. YD.	CUT VOLUME	16 CU. YD.
FILL AREA	31 SQ. FT.	FILL AREA	0 SQ. FT.	FILL VOLUME	16 CU. YD.	FILL VOLUME	0 CU. YD.
CUT AREA	84 SQ. FT.	CUT AREA	6 SQ. FT.	CUT VOLUME	58 CU. YD.	CUT VOLUME	45 CU. YD.
FILL AREA	6 SQ. FT.	FILL AREA	0 SQ. FT.	FILL VOLUME	2 CU. YD.	FILL VOLUME	0 CU. YD.
CUT AREA	110 SQ. FT.	CUT AREA	145 SQ. FT.	CUT VOLUME	432 CU. YD.	CUT VOLUME	316 CU. YD.
FILL AREA	0 SQ. FT.	FILL AREA	0 SQ. FT.	FILL VOLUME	0 CU. YD.	FILL VOLUME	0 CU. YD.

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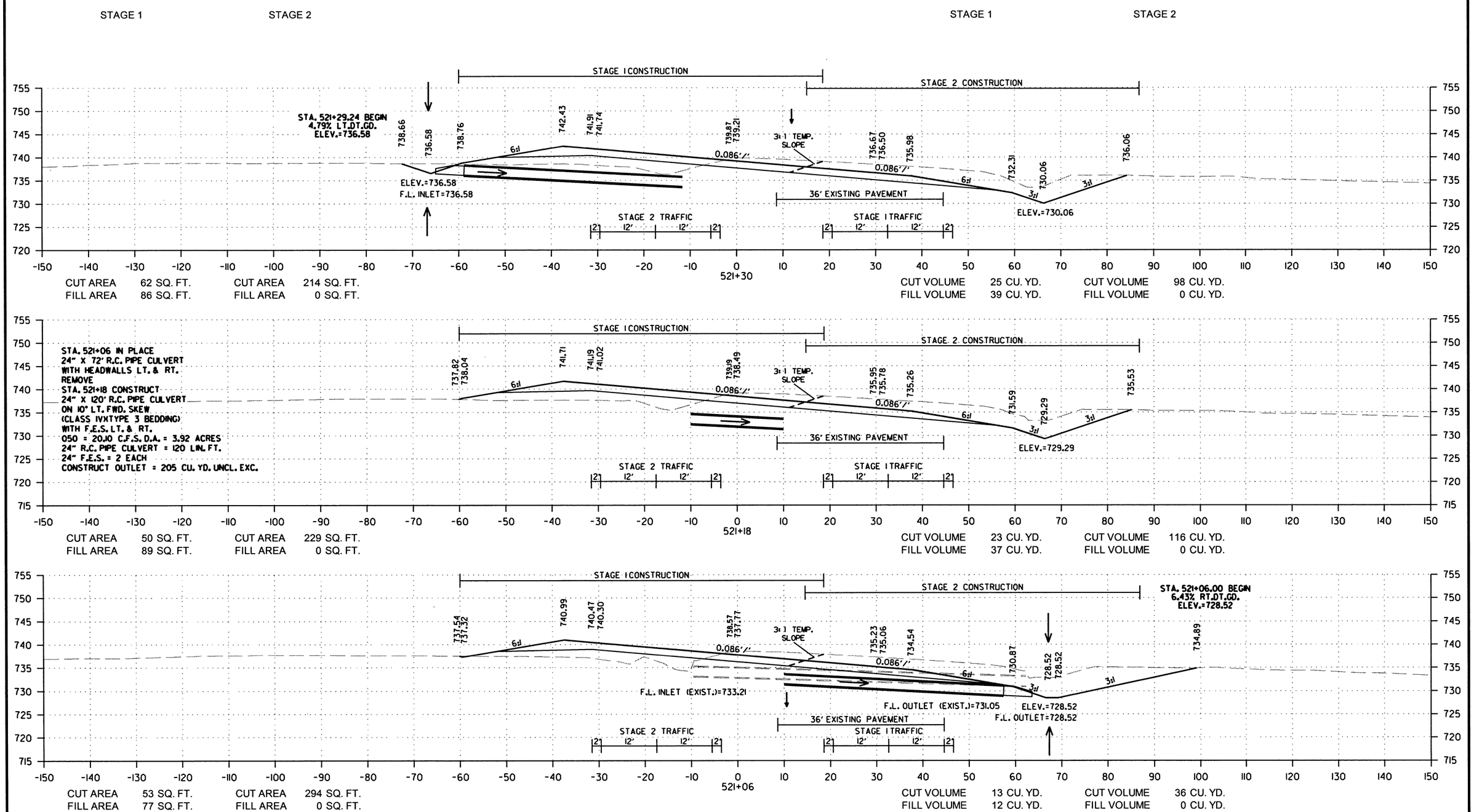
HWY. 65
CROSS SECTION STA. 520+60 TO STA. 521+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	287	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 521+06 TO STA. 521+30

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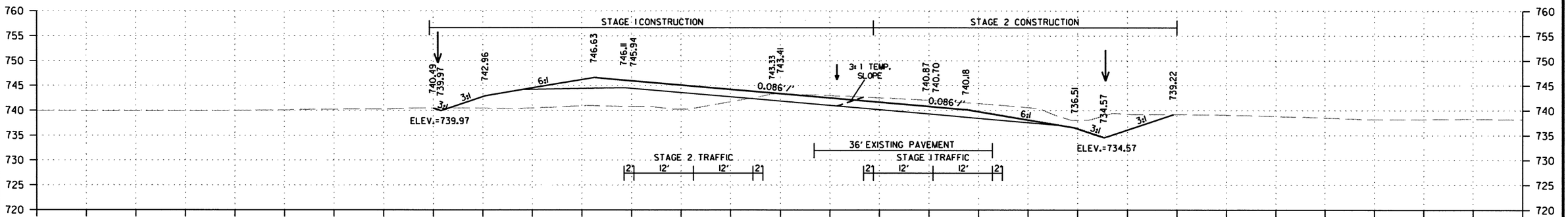
RCA0801.DGN

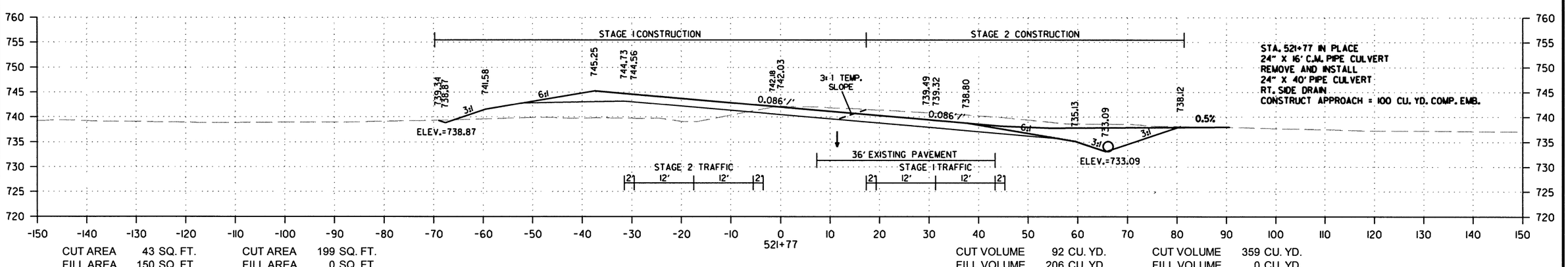
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	288	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	42 SQ. FT.	CUT AREA	159 SQ. FT.	CUT VOLUME	36 CU. YD.	CUT VOLUME	153 CU. YD.
FILL AREA	172 SQ. FT.	FILL AREA	0 SQ. FT.	FILL VOLUME	137 CU. YD.	FILL VOLUME	0 CU. YD.



STA. 521+77 IN PLACE
24" X 16' C.M. PIPE CULVERT
REMOVE AND INSTALL
24" X 40' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 100 CU. YD. COMP. EMB.

CUT AREA	43 SQ. FT.	CUT AREA	199 SQ. FT.	CUT VOLUME	92 CU. YD.	CUT VOLUME	359 CU. YD.
FILL AREA	150 SQ. FT.	FILL AREA	0 SQ. FT.	FILL VOLUME	206 CU. YD.	FILL VOLUME	0 CU. YD.

HWY. 65
CROSS SECTION STA. 521+77 TO STA. 522+00

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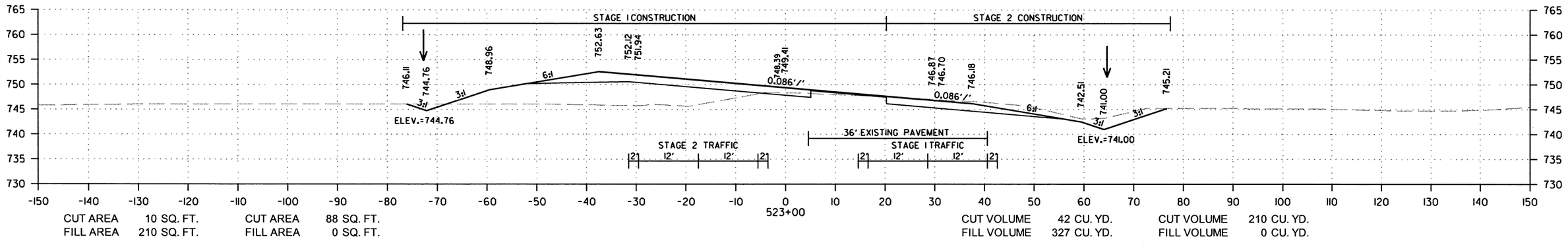
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	289	605

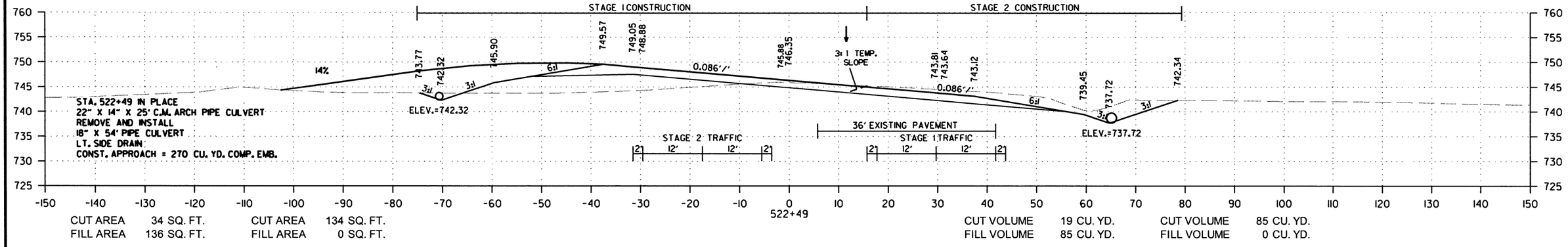
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



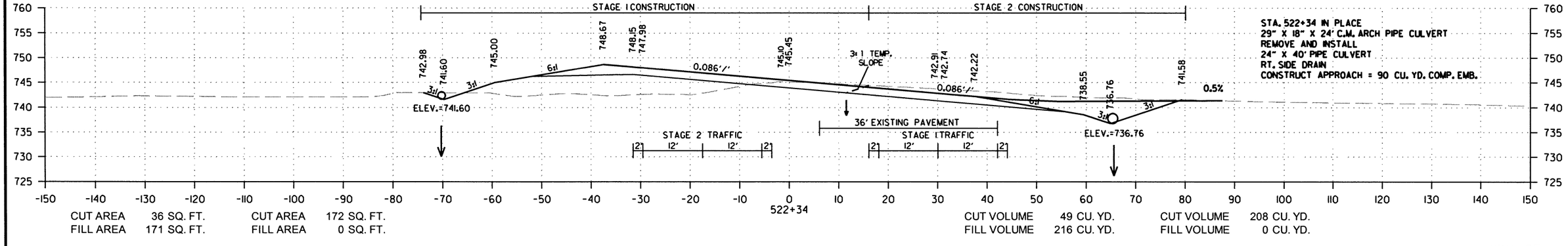
CUT AREA 10 SQ. FT. CUT AREA 88 SQ. FT.
FILL AREA 210 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 42 CU. YD. CUT VOLUME 210 CU. YD.
FILL VOLUME 327 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 34 SQ. FT. CUT AREA 134 SQ. FT.
FILL AREA 136 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 19 CU. YD. CUT VOLUME 85 CU. YD.
FILL VOLUME 85 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 36 SQ. FT. CUT AREA 172 SQ. FT.
FILL AREA 171 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 49 CU. YD. CUT VOLUME 208 CU. YD.
FILL VOLUME 216 CU. YD. FILL VOLUME 0 CU. YD.

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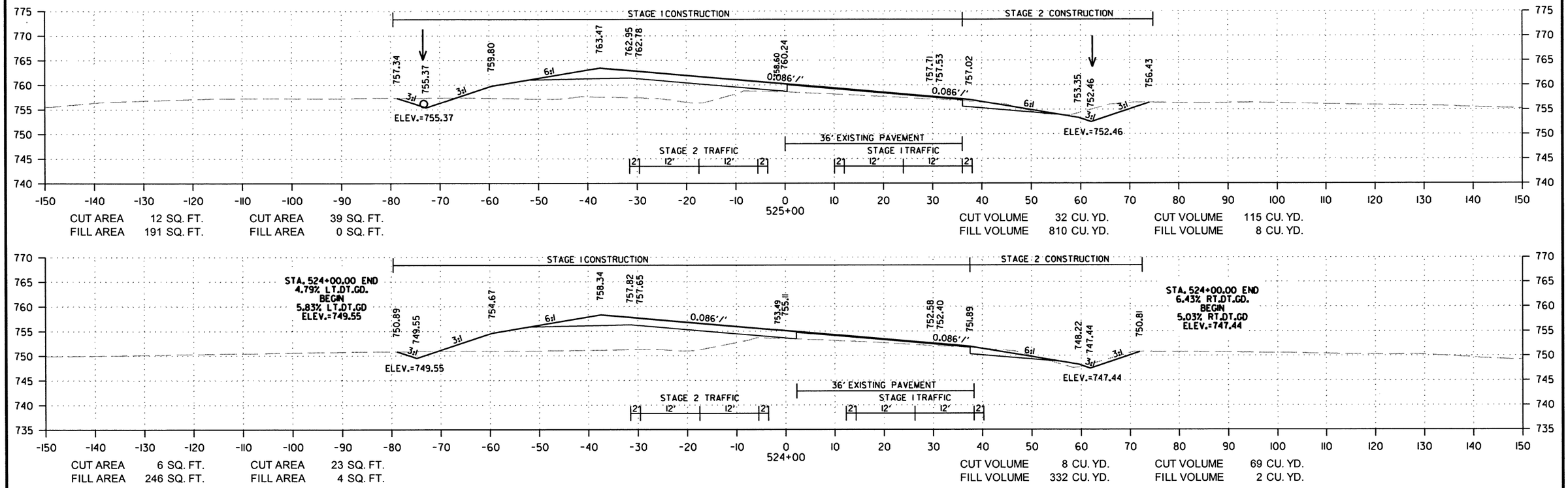
HWY. 65
CROSS SECTION STA. 522+34 TO STA. 523+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	290	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



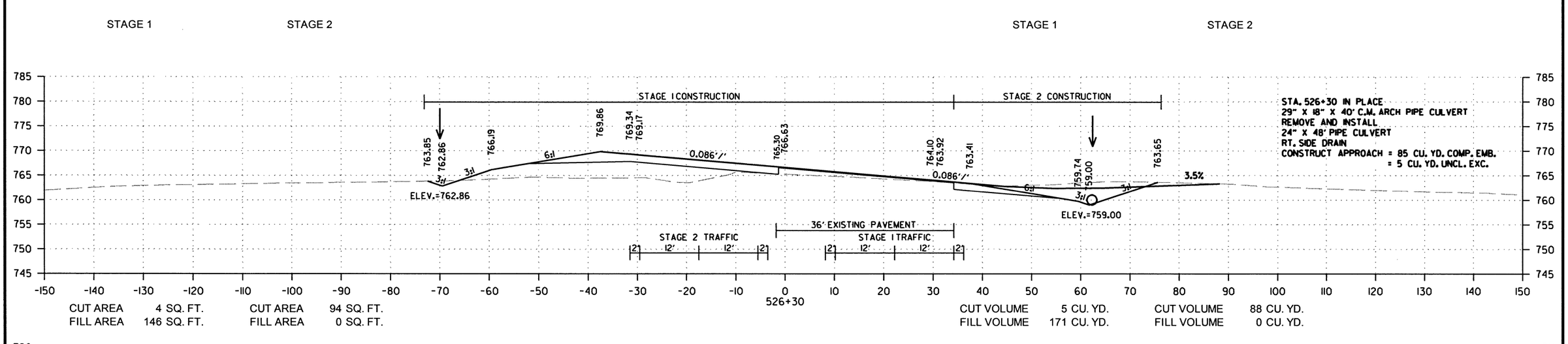
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 523+63 TO STA. 525+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	291	605

(2) CROSS SECTIONS



11/13/2018

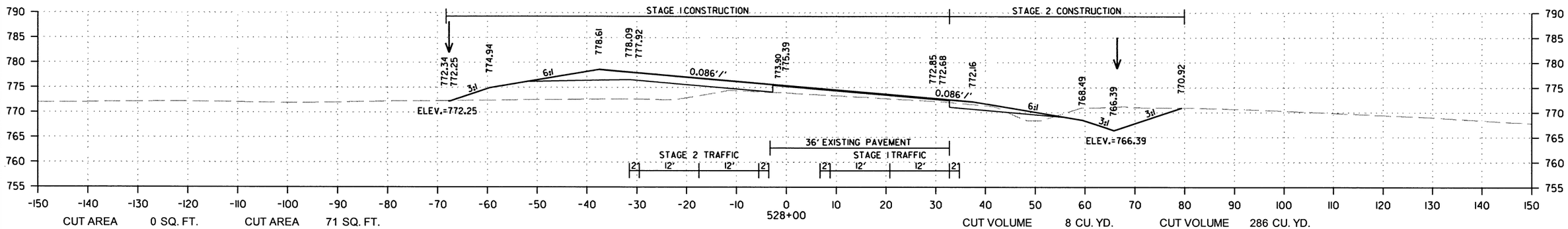
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 525+13 TO STA. 526+30

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	292	605

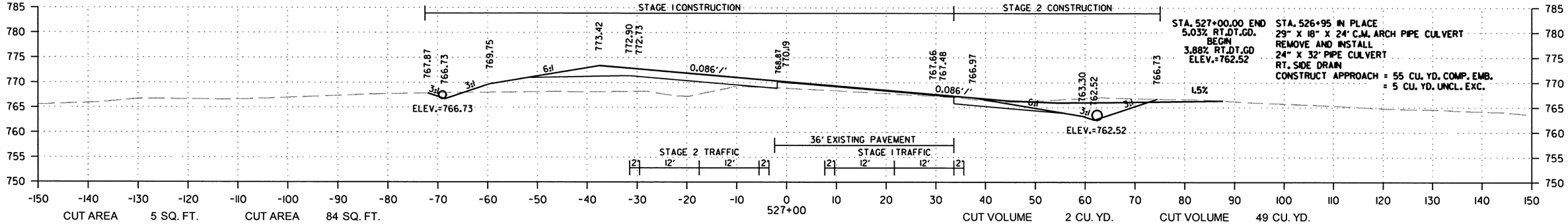
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 0 SQ. FT. CUT AREA 71 SQ. FT.
FILL AREA 166 SQ. FT. FILL AREA 8 SQ. FT.

CUT VOLUME 8 CU. YD. CUT VOLUME 286 CU. YD.
FILL VOLUME 562 CU. YD. FILL VOLUME 15 CU. YD.

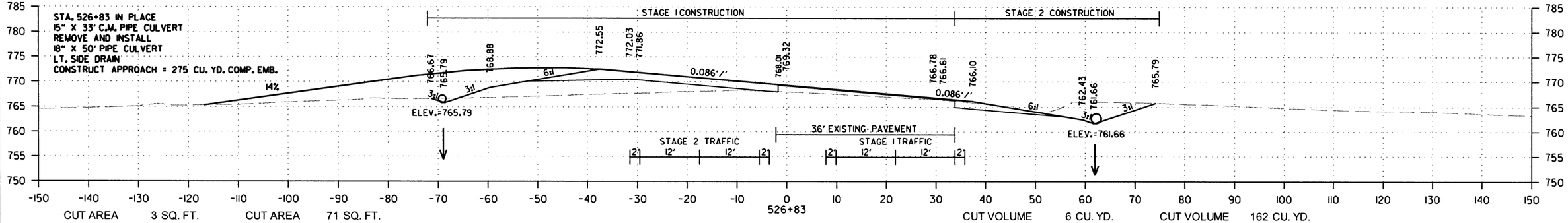


STA. 527+00.00 END
5.03% RT.DT.GD.
BEGIN
3.88% RT.DT.GD
ELEV.=762.52

STA. 526+95 IN PLACE
29" X 18" X 24' C.M. ARCH PIPE CULVERT
REMOVE AND INSTALL
24" X 32' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 55 CU. YD. COMP. EMB.
= 5 CU. YD. UNCL. EXC.

CUT AREA 5 SQ. FT. CUT AREA 84 SQ. FT.
FILL AREA 138 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 49 CU. YD.
FILL VOLUME 82 CU. YD. FILL VOLUME 0 CU. YD.



STA. 526+83 IN PLACE
15" X 33' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 50' PIPE CULVERT
LT. SIDE DRAIN
CONSTRUCT APPROACH = 275 CU. YD. COMP. EMB.

CUT AREA 3 SQ. FT. CUT AREA 71 SQ. FT.
FILL AREA 121 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 6 CU. YD. CUT VOLUME 162 CU. YD.
FILL VOLUME 262 CU. YD. FILL VOLUME 0 CU. YD.

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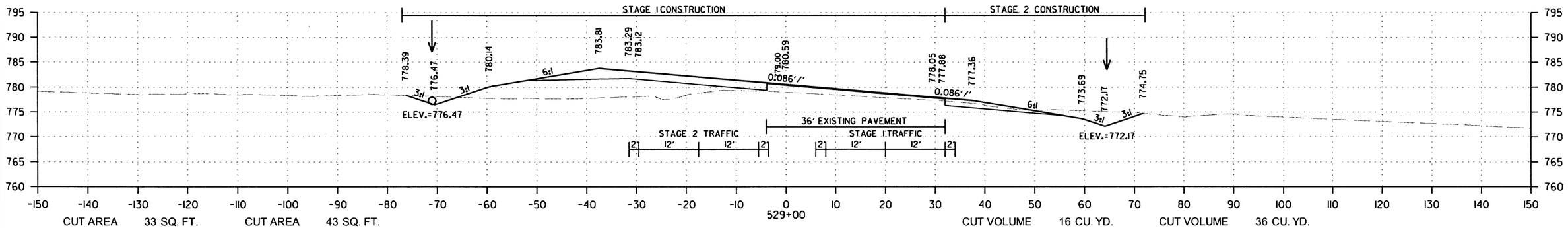
HWY. 65
CROSS SECTION STA. 526+83 TO STA. 528+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	293	605

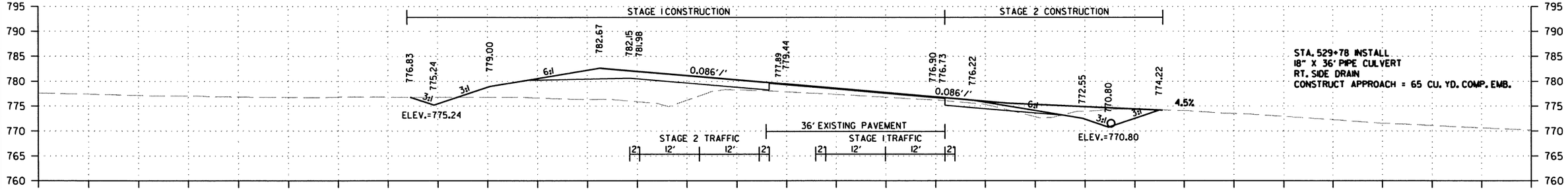
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 33 SQ. FT. CUT AREA 43 SQ. FT.
FILL AREA 161 SQ. FT. FILL AREA 0 SQ. FT.

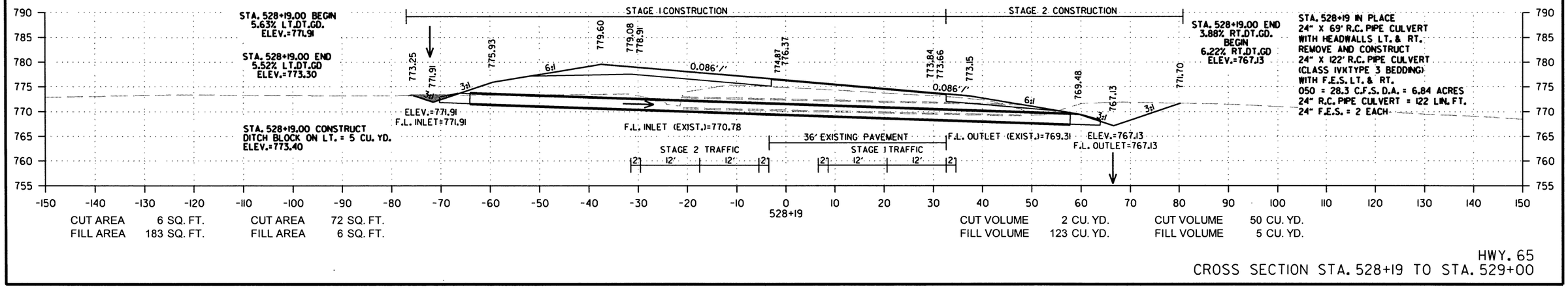
CUT VOLUME 16 CU. YD. CUT VOLUME 36 CU. YD.
FILL VOLUME 139 CU. YD. FILL VOLUME 2 CU. YD.



STA. 529+78 INSTALL
18" X 36' PIPE CULVERT
RT. SIDE DRAIN
CONSTRUCT APPROACH = 65 CU. YD. COMP. EMB.

CUT AREA 7 SQ. FT. CUT AREA 44 SQ. FT.
FILL AREA 181 SQ. FT. FILL AREA 5 SQ. FT.

CUT VOLUME 14 CU. YD. CUT VOLUME 127 CU. YD.
FILL VOLUME 397 CU. YD. FILL VOLUME 12 CU. YD.



CUT AREA 6 SQ. FT. CUT AREA 72 SQ. FT.
FILL AREA 183 SQ. FT. FILL AREA 6 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 50 CU. YD.
FILL VOLUME 123 CU. YD. FILL VOLUME 5 CU. YD.

HWY. 65
CROSS SECTION STA. 528+19 TO STA. 529+00

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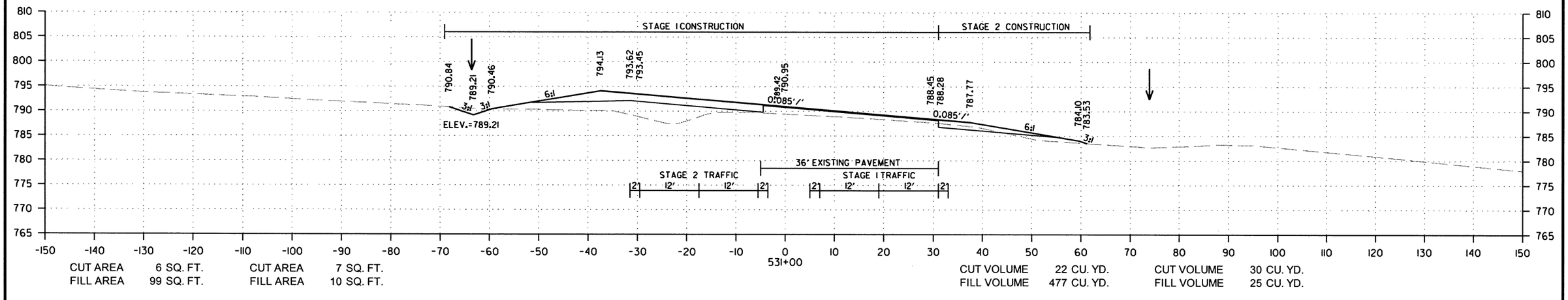
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	294	605

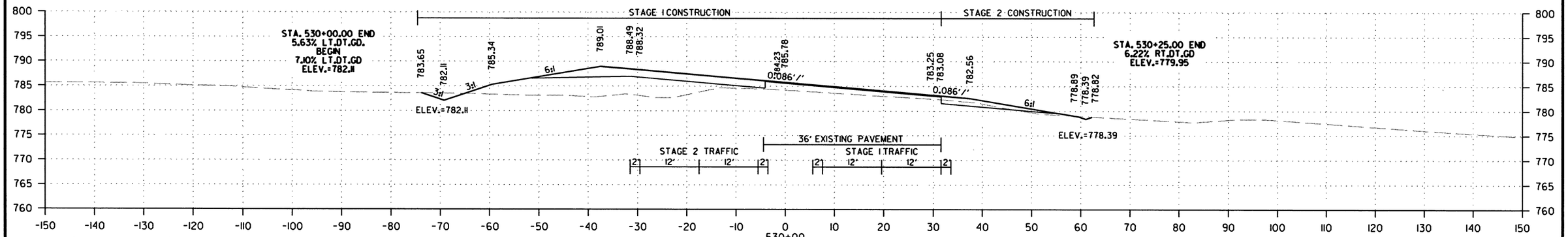
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



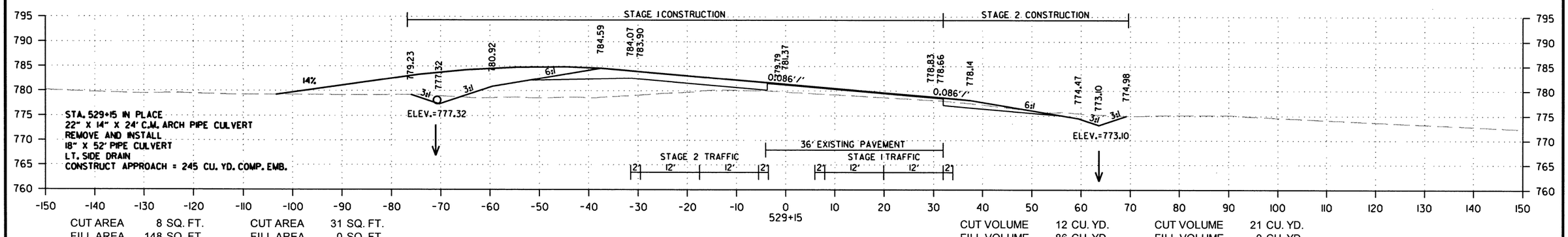
CUT AREA 6 SQ. FT. CUT AREA 7 SQ. FT.
FILL AREA 99 SQ. FT. FILL AREA 10 SQ. FT.

CUT VOLUME 22 CU. YD. CUT VOLUME 30 CU. YD.
FILL VOLUME 477 CU. YD. FILL VOLUME 25 CU. YD.



CUT AREA 7 SQ. FT. CUT AREA 9 SQ. FT.
FILL AREA 158 SQ. FT. FILL AREA 3 SQ. FT.

CUT VOLUME 24 CU. YD. CUT VOLUME 64 CU. YD.
FILL VOLUME 482 CU. YD. FILL VOLUME 5 CU. YD.



CUT AREA 8 SQ. FT. CUT AREA 31 SQ. FT.
FILL AREA 148 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 12 CU. YD. CUT VOLUME 21 CU. YD.
FILL VOLUME 86 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 65
CROSS SECTION STA. 529+15 TO STA. 531+00

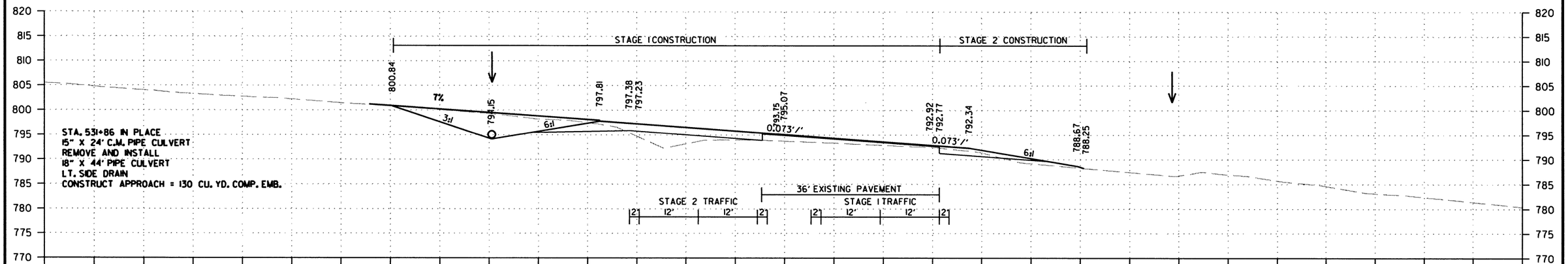
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	295	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

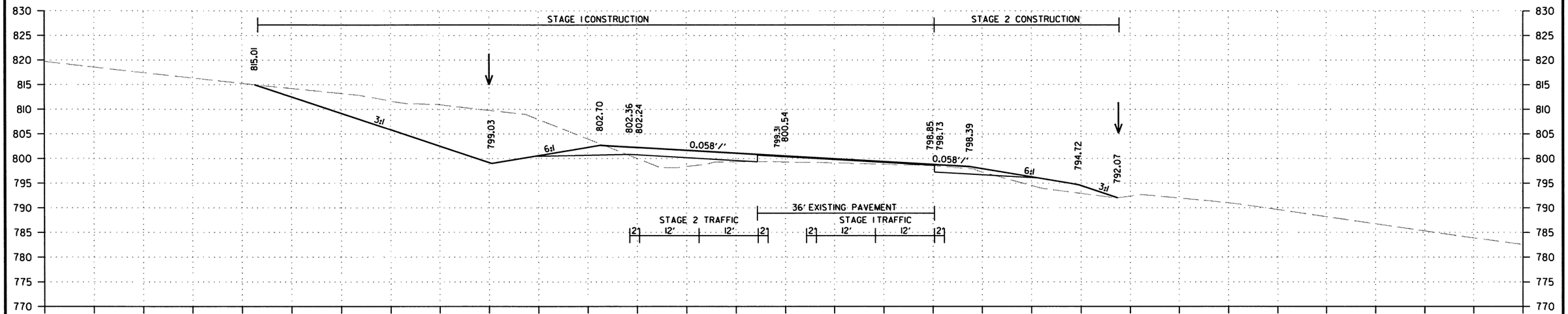
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 531+48 TO STA. 531+86

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	296	605

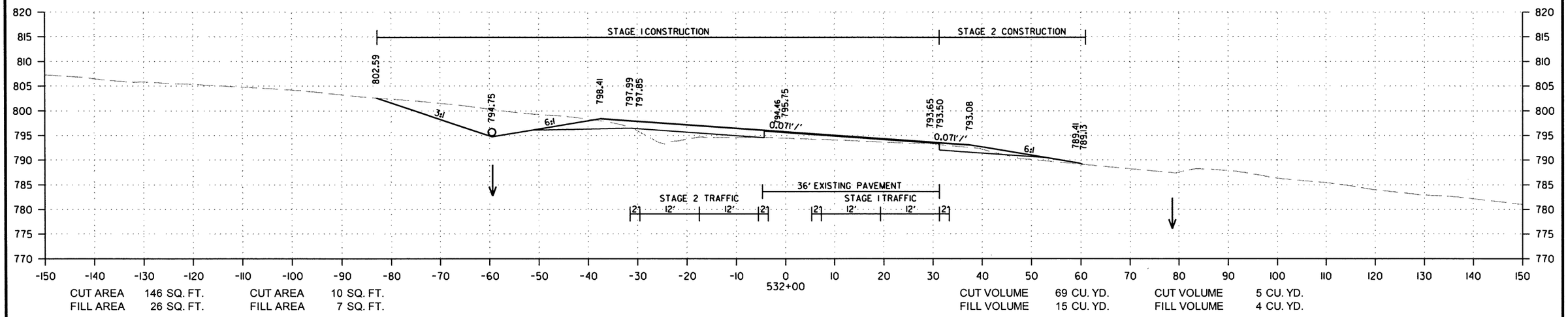
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 411 SQ. FT. CUT AREA 11 SQ. FT.
FILL AREA 28 SQ. FT. FILL AREA 30 SQ. FT.

CUT VOLUME 1031 CU. YD. CUT VOLUME 40 CU. YD.
FILL VOLUME 101 CU. YD. FILL VOLUME 70 CU. YD.



CUT AREA 146 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 26 SQ. FT. FILL AREA 7 SQ. FT.

CUT VOLUME 69 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 15 CU. YD. FILL VOLUME 4 CU. YD.

HWY. 65
CROSS SECTION STA. 532+00 TO STA. 533+00

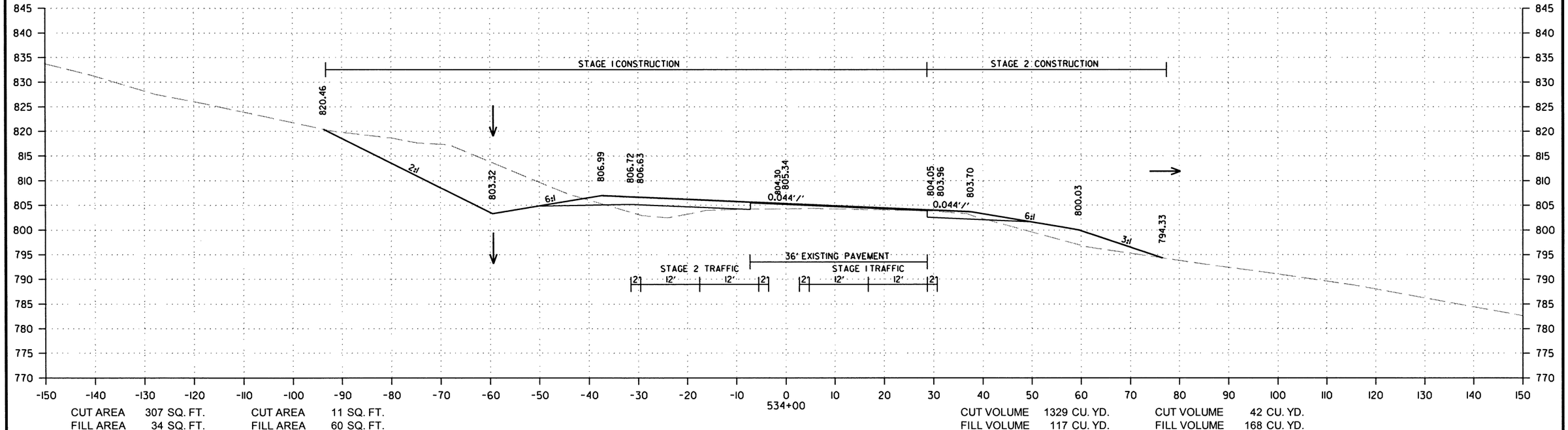
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	297	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 307 SQ. FT. CUT AREA 11 SQ. FT.
FILL AREA 34 SQ. FT. FILL AREA 60 SQ. FT.

CUT VOLUME 1329 CU. YD. CUT VOLUME 42 CU. YD.
FILL VOLUME 117 CU. YD. FILL VOLUME 168 CU. YD.

HWY. 65
CROSS SECTION STA. 534+00 TO STA. 534+00

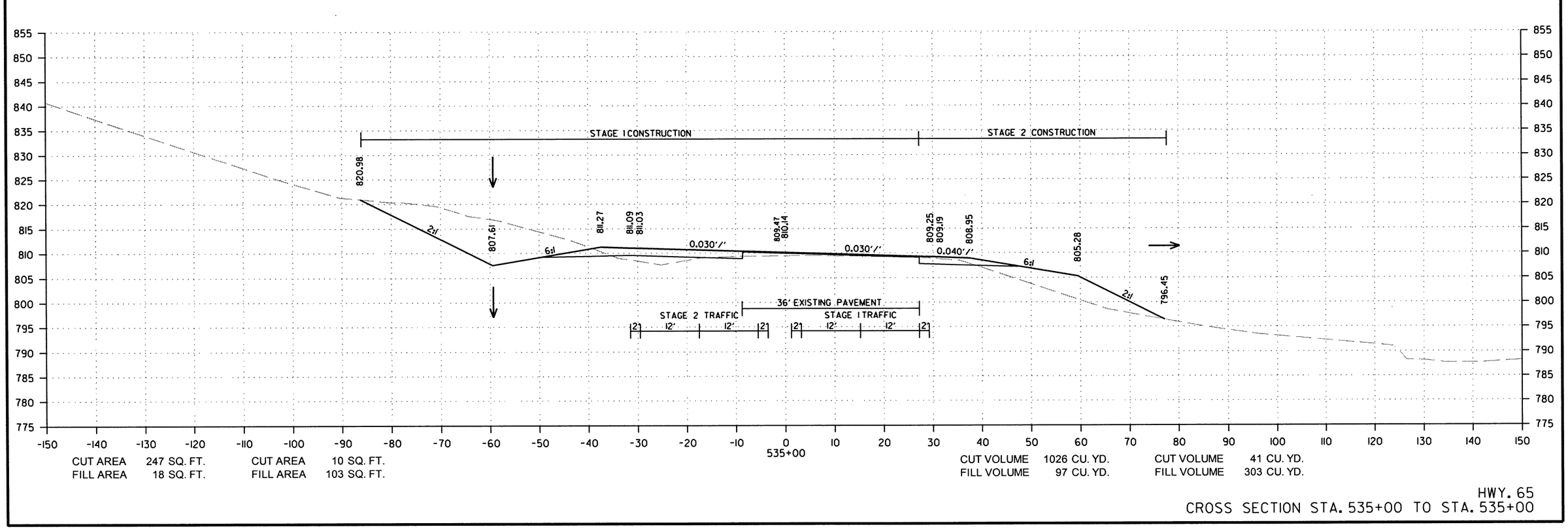
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	298	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



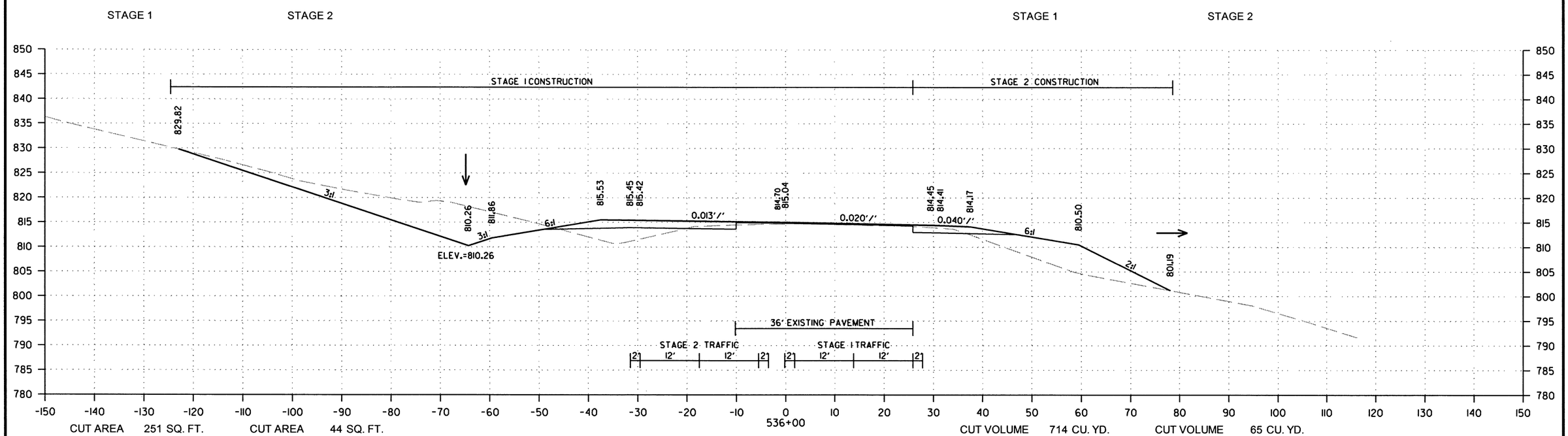
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 535+00 TO STA. 535+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	299	605

(2) CROSS SECTIONS



11/13/2018

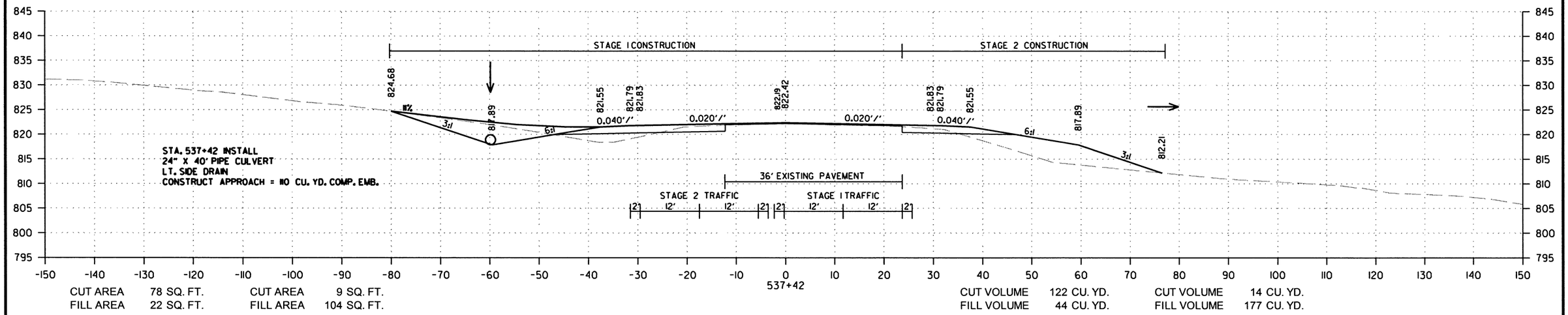
RCA0801.DGN

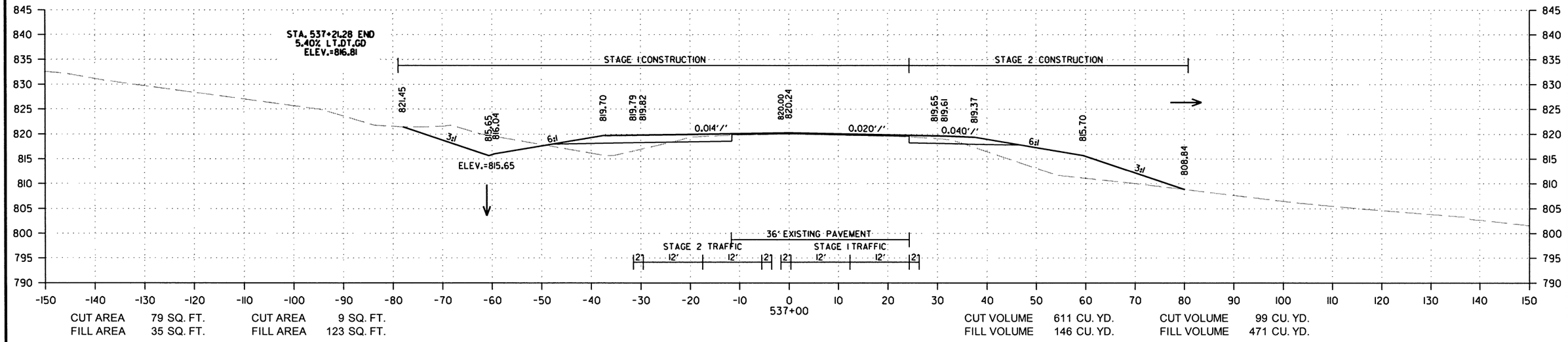
HWY. 65
CROSS SECTION STA. 535+35 TO STA. 536+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	300	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





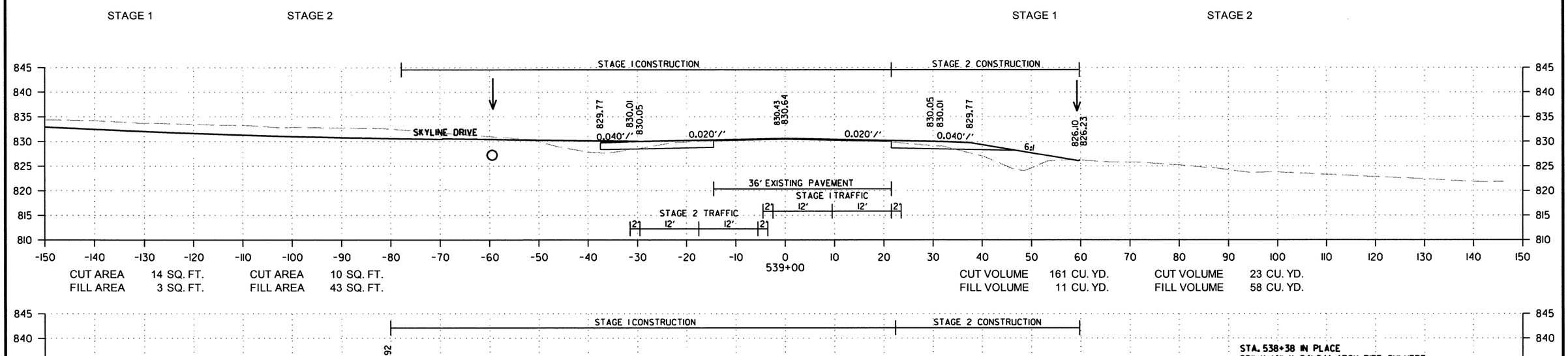
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 537+00 TO STA. 537+42

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	301	605

(2) CROSS SECTIONS



11/13/2018

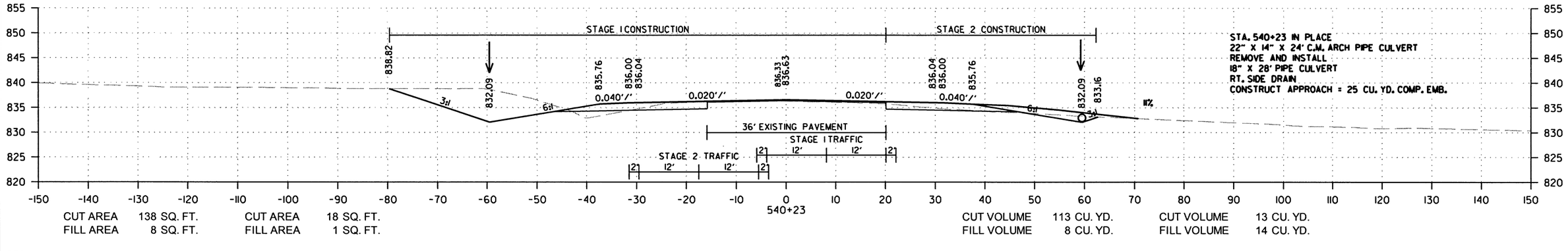
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 538+00 TO STA. 539+00

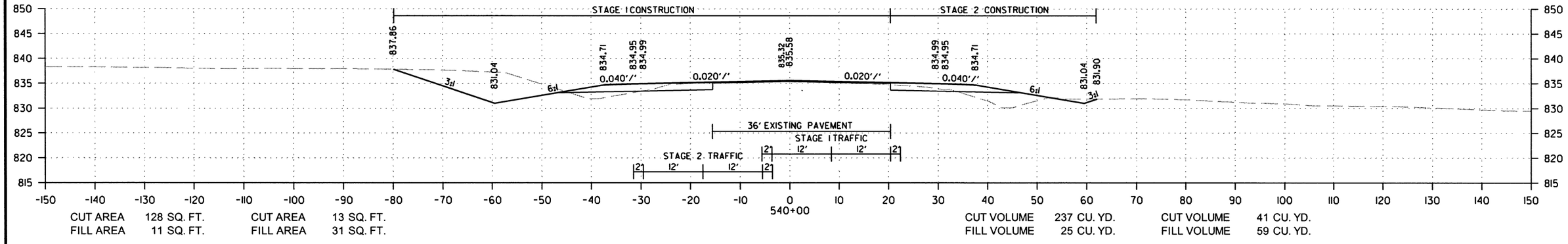
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	302	605

(2) CROSS SECTIONS

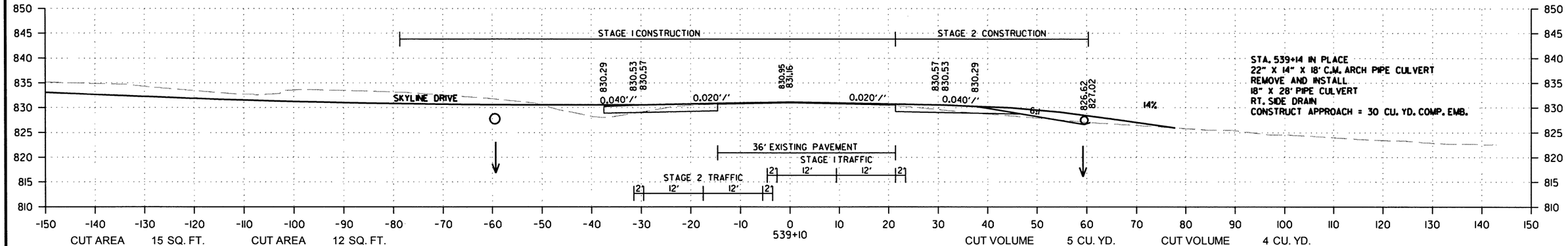
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 138 SQ. FT. CUT AREA 18 SQ. FT. CUT VOLUME 113 CU. YD. CUT VOLUME 13 CU. YD.
FILL AREA 8 SQ. FT. FILL AREA 1 SQ. FT. FILL VOLUME 8 CU. YD. FILL VOLUME 14 CU. YD.



CUT AREA 128 SQ. FT. CUT AREA 13 SQ. FT. CUT VOLUME 237 CU. YD. CUT VOLUME 41 CU. YD.
FILL AREA 11 SQ. FT. FILL AREA 31 SQ. FT. FILL VOLUME 25 CU. YD. FILL VOLUME 59 CU. YD.



CUT AREA 15 SQ. FT. CUT AREA 12 SQ. FT. CUT VOLUME 5 CU. YD. CUT VOLUME 4 CU. YD.
FILL AREA 3 SQ. FT. FILL AREA 4 SQ. FT. FILL VOLUME 1 CU. YD. FILL VOLUME 9 CU. YD.

HWY. 65
CROSS SECTION STA. 539+10 TO STA. 540+23

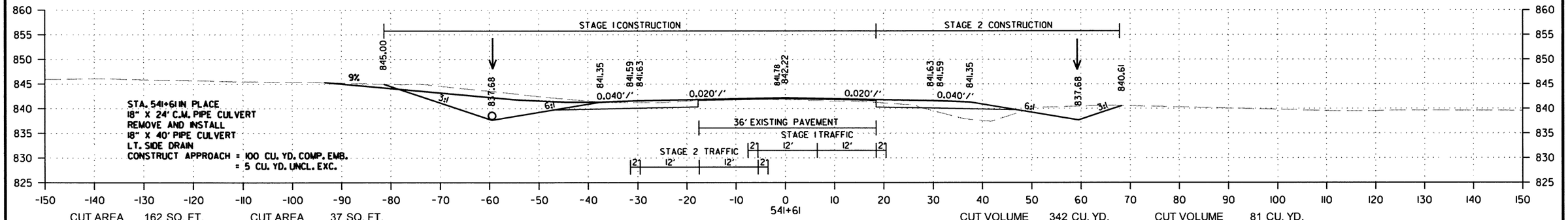
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	303	605

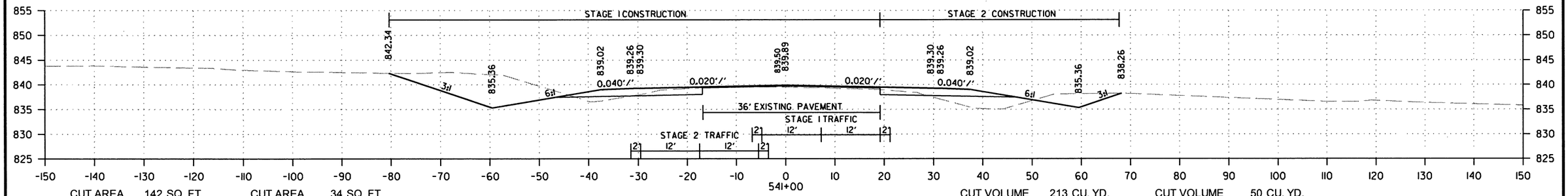
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



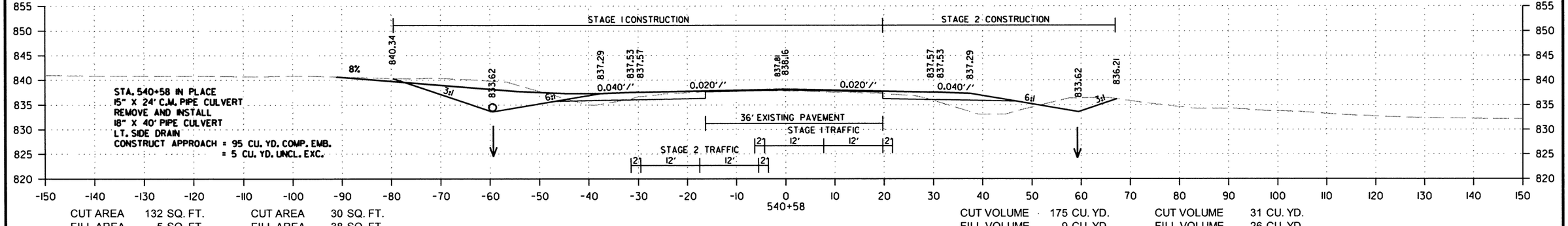
CUT AREA 162 SQ. FT. CUT AREA 37 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 30 SQ. FT.

CUT VOLUME 342 CU. YD. CUT VOLUME 81 CU. YD.
FILL VOLUME 7 CU. YD. FILL VOLUME 72 CU. YD.



CUT AREA 142 SQ. FT. CUT AREA 34 SQ. FT.
FILL AREA 7 SQ. FT. FILL AREA 34 SQ. FT.

CUT VOLUME 213 CU. YD. CUT VOLUME 50 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 56 CU. YD.



CUT AREA 132 SQ. FT. CUT AREA 30 SQ. FT.
FILL AREA 5 SQ. FT. FILL AREA 38 SQ. FT.

CUT VOLUME 175 CU. YD. CUT VOLUME 31 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 26 CU. YD.

HWY. 65
CROSS SECTION STA. 540+58 TO STA. 541+61

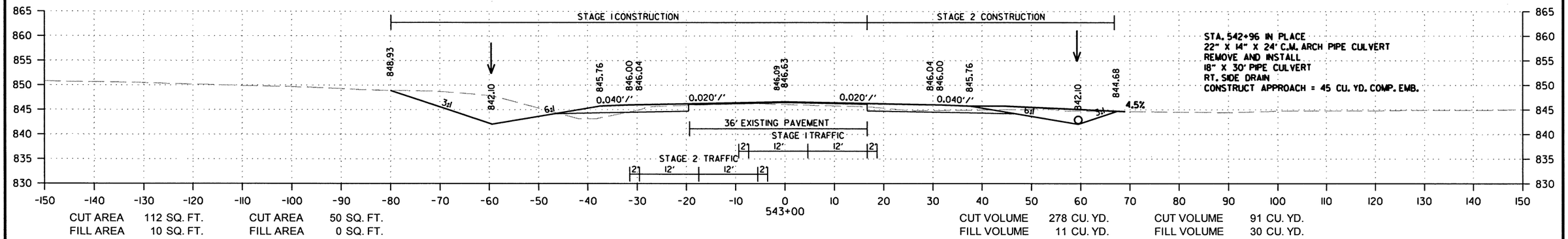
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	304	605

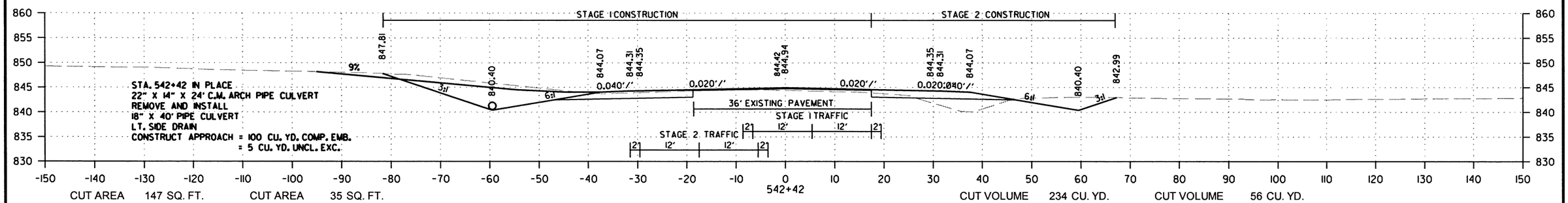
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



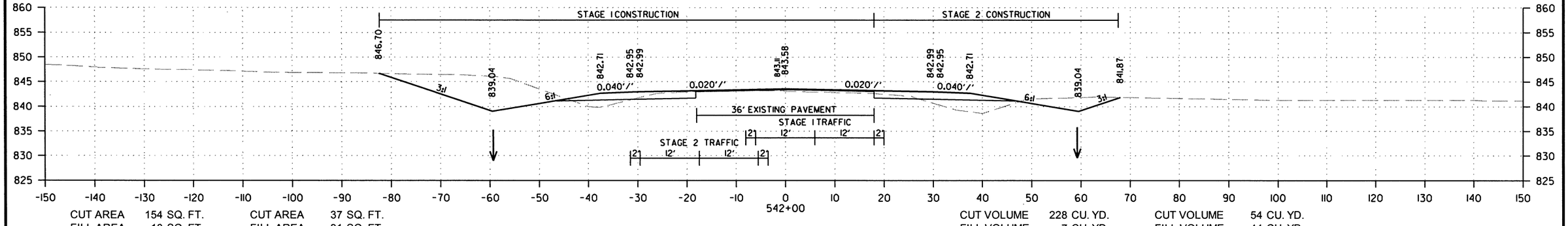
CUT AREA 112 SQ. FT. CUT AREA 50 SQ. FT.
FILL AREA 10 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 278 CU. YD. CUT VOLUME 91 CU. YD.
FILL VOLUME 11 CU. YD. FILL VOLUME 30 CU. YD.



CUT AREA 147 SQ. FT. CUT AREA 35 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 28 SQ. FT.

CUT VOLUME 234 CU. YD. CUT VOLUME 56 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 46 CU. YD.



CUT AREA 154 SQ. FT. CUT AREA 37 SQ. FT.
FILL AREA 10 SQ. FT. FILL AREA 31 SQ. FT.

CUT VOLUME 228 CU. YD. CUT VOLUME 54 CU. YD.
FILL VOLUME 7 CU. YD. FILL VOLUME 44 CU. YD.

HWY. 65
CROSS SECTION STA. 542+00 TO STA. 543+00

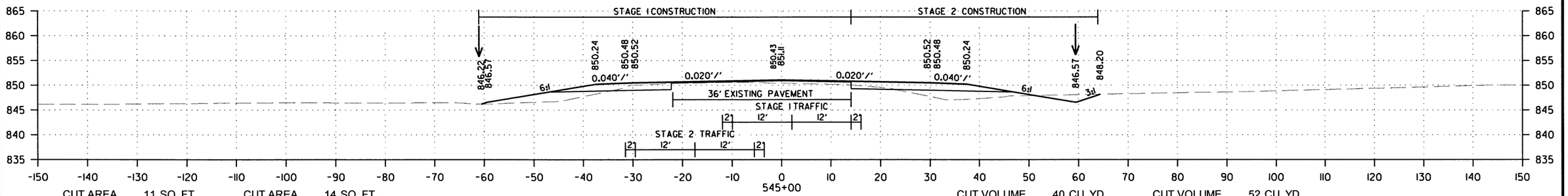
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	305	605

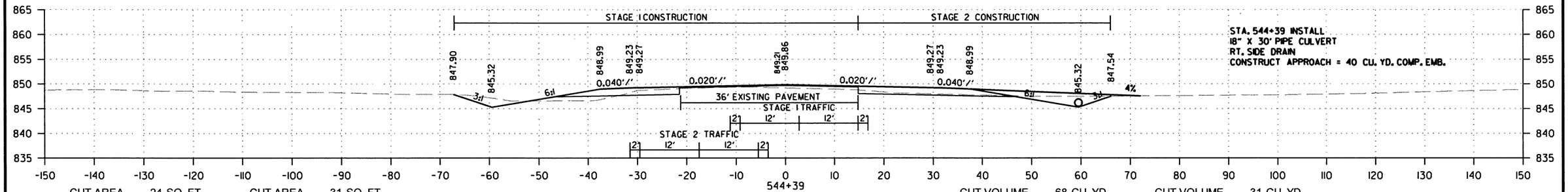
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



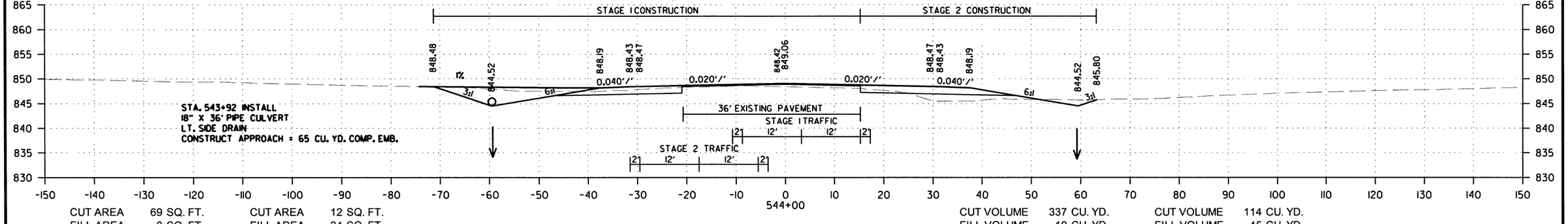
CUT AREA 11 SQ. FT. CUT AREA 14 SQ. FT.
FILL AREA 29 SQ. FT. FILL AREA 31 SQ. FT.

CUT VOLUME 40 CU. YD. CUT VOLUME 52 CU. YD.
FILL VOLUME 46 CU. YD. FILL VOLUME 35 CU. YD.



CUT AREA 24 SQ. FT. CUT AREA 31 SQ. FT.
FILL AREA 11 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 68 CU. YD. CUT VOLUME 31 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 18 CU. YD.



CUT AREA 69 SQ. FT. CUT AREA 12 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 24 SQ. FT.

CUT VOLUME 337 CU. YD. CUT VOLUME 114 CU. YD.
FILL VOLUME 19 CU. YD. FILL VOLUME 45 CU. YD.

11/13/2018

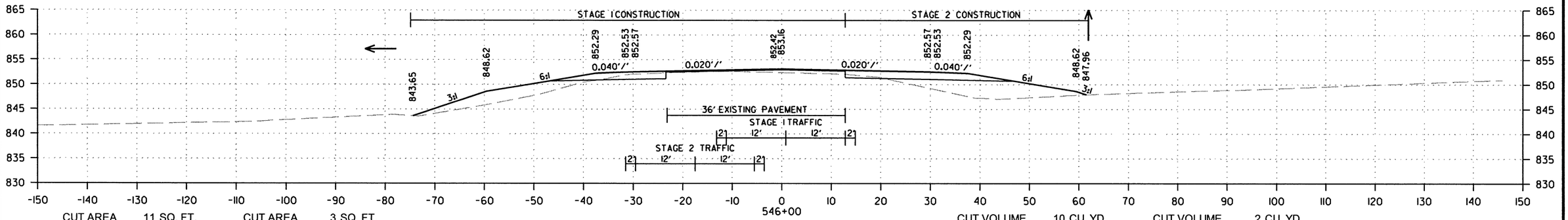
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 544+00 TO STA. 545+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	306	605

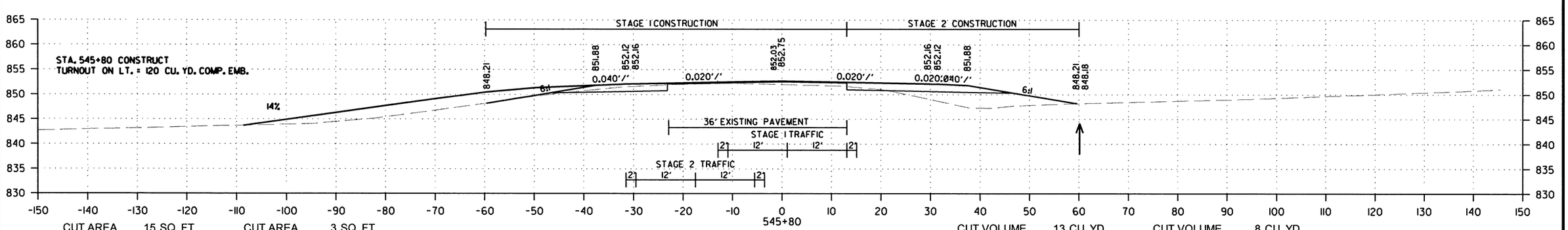
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



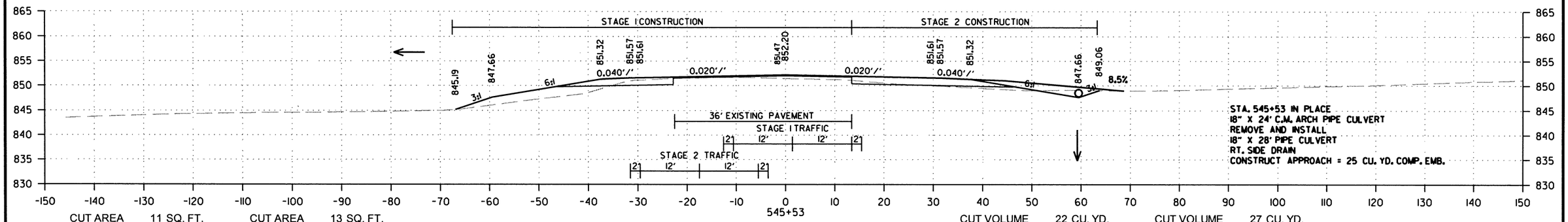
CUT AREA 11 SQ. FT. CUT AREA 3 SQ. FT.
FILL AREA 63 SQ. FT. FILL AREA 89 SQ. FT.

CUT VOLUME 10 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 24 CU. YD. FILL VOLUME 59 CU. YD.



CUT AREA 15 SQ. FT. CUT AREA 3 SQ. FT.
FILL AREA 2 SQ. FT. FILL AREA 70 SQ. FT.

CUT VOLUME 13 CU. YD. CUT VOLUME 8 CU. YD.
FILL VOLUME 23 CU. YD. FILL VOLUME 39 CU. YD.



CUT AREA 11 SQ. FT. CUT AREA 13 SQ. FT.
FILL AREA 44 SQ. FT. FILL AREA 8 SQ. FT.

CUT VOLUME 22 CU. YD. CUT VOLUME 27 CU. YD.
FILL VOLUME 72 CU. YD. FILL VOLUME 38 CU. YD.

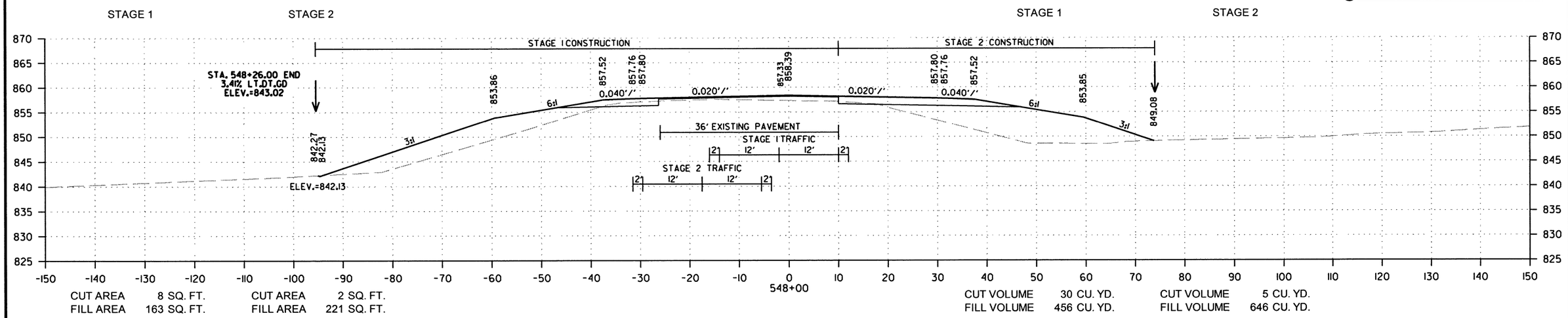
HWY. 65
CROSS SECTION STA. 545+53 TO STA. 546+00

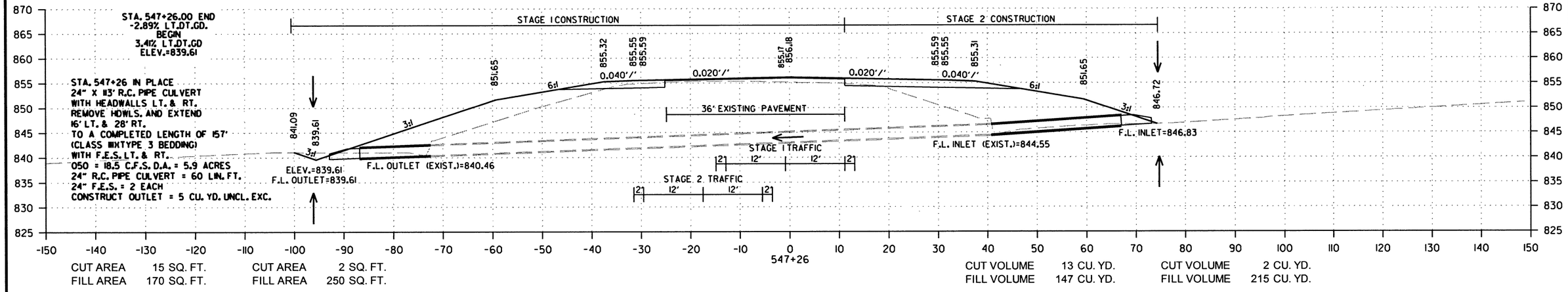
11/13/2018

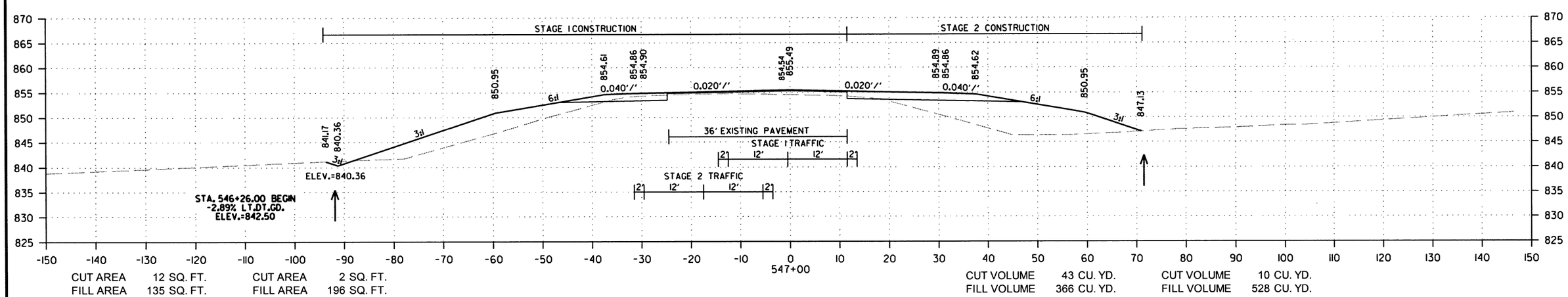
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	307	605

(2) CROSS SECTIONS







HWY. 65
CROSS SECTION STA. 547+00 TO STA. 548+00

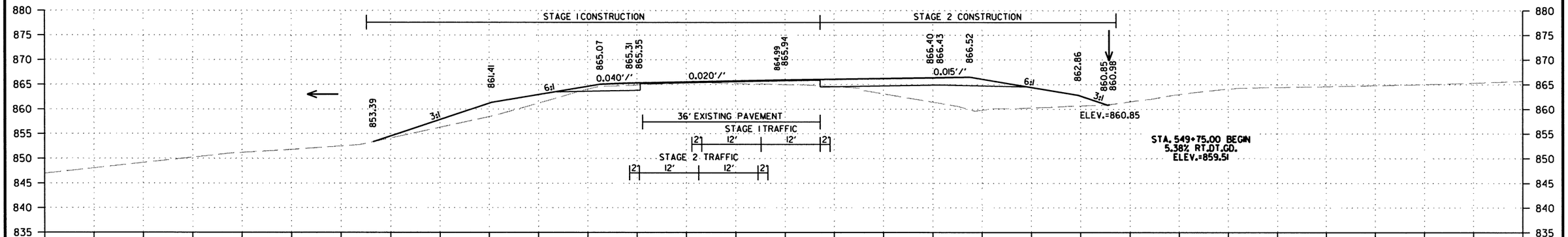
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	308	605

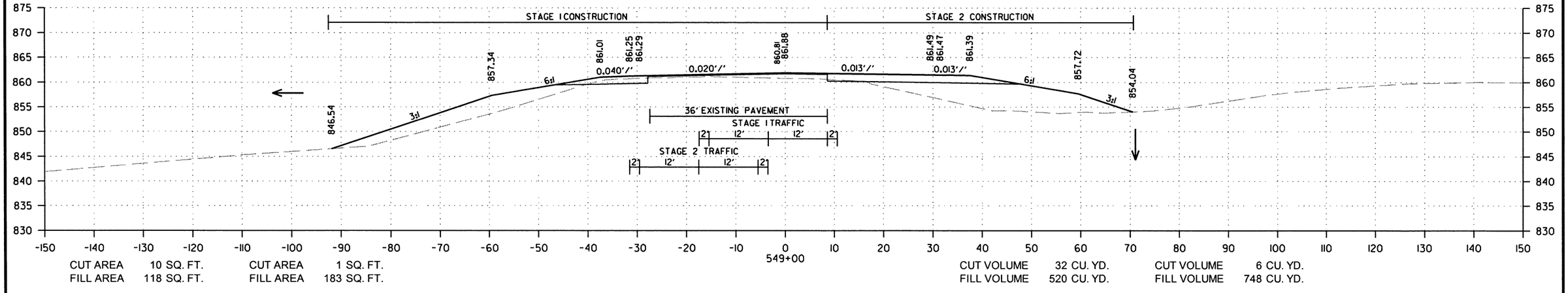
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 10 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 64 SQ. FT. FILL AREA 157 SQ. FT.

CUT VOLUME 38 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 337 CU. YD. FILL VOLUME 628 CU. YD.



CUT AREA 10 SQ. FT. CUT AREA 1 SQ. FT.
FILL AREA 118 SQ. FT. FILL AREA 183 SQ. FT.

CUT VOLUME 32 CU. YD. CUT VOLUME 6 CU. YD.
FILL VOLUME 520 CU. YD. FILL VOLUME 748 CU. YD.

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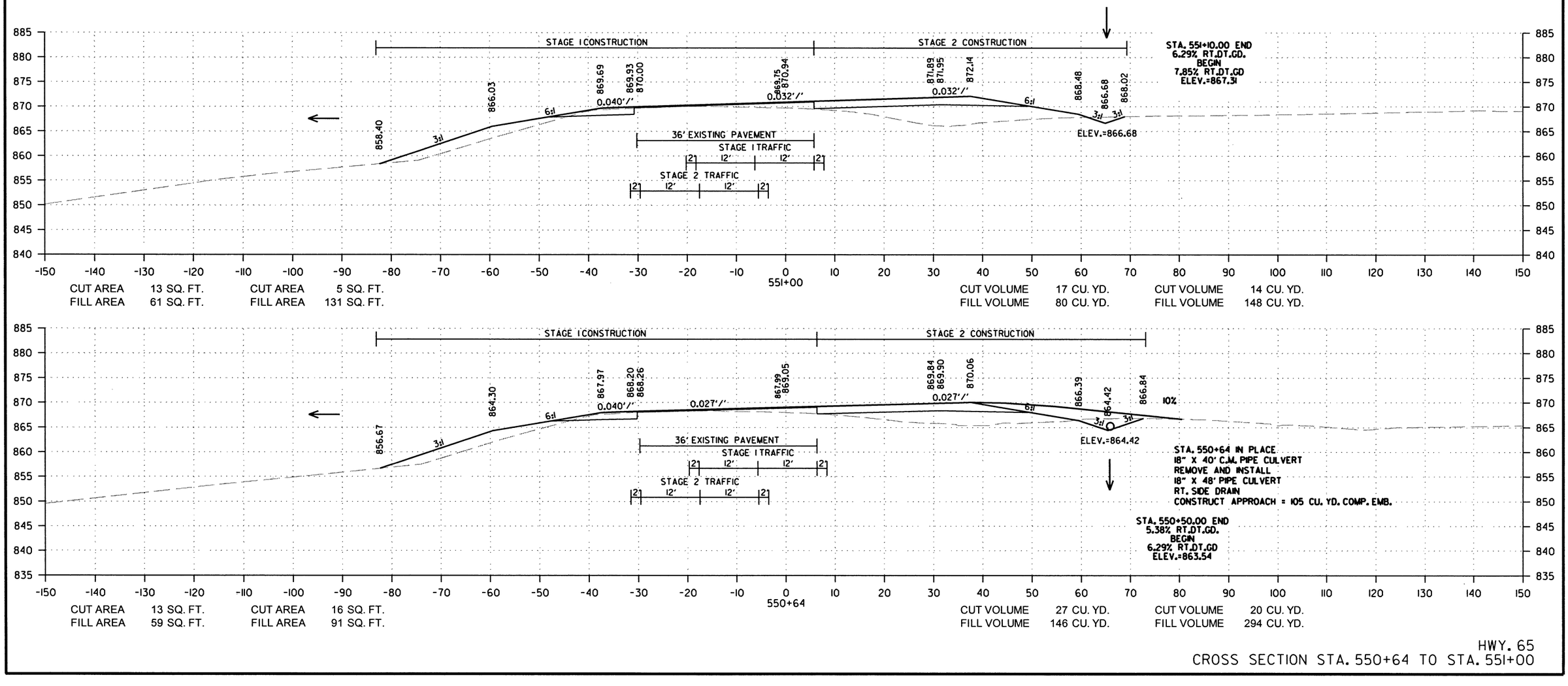
HWY. 65
CROSS SECTION STA. 549+00 TO STA. 550+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	309	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



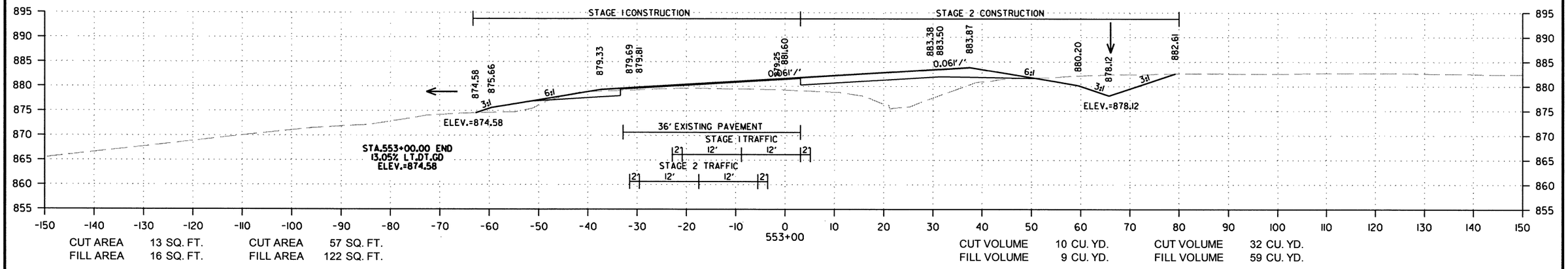
HWY. 65
CROSS SECTION STA. 550+64 TO STA. 551+00

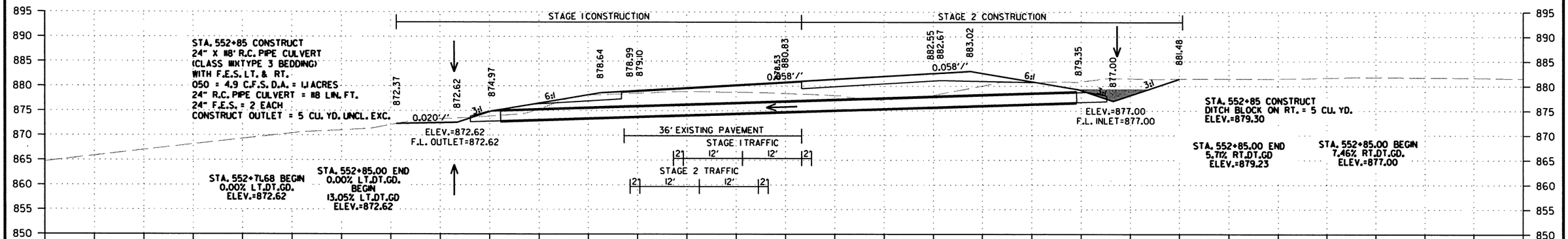
11/13/2018

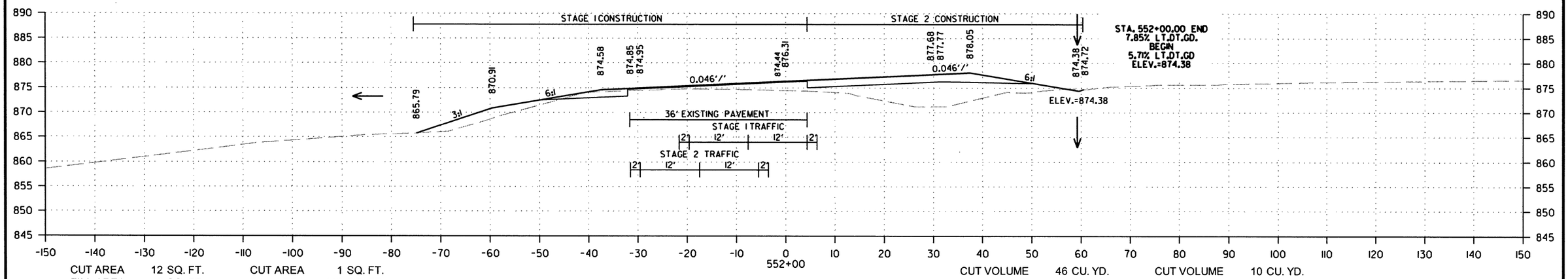
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	310	605

(2) CROSS SECTIONS







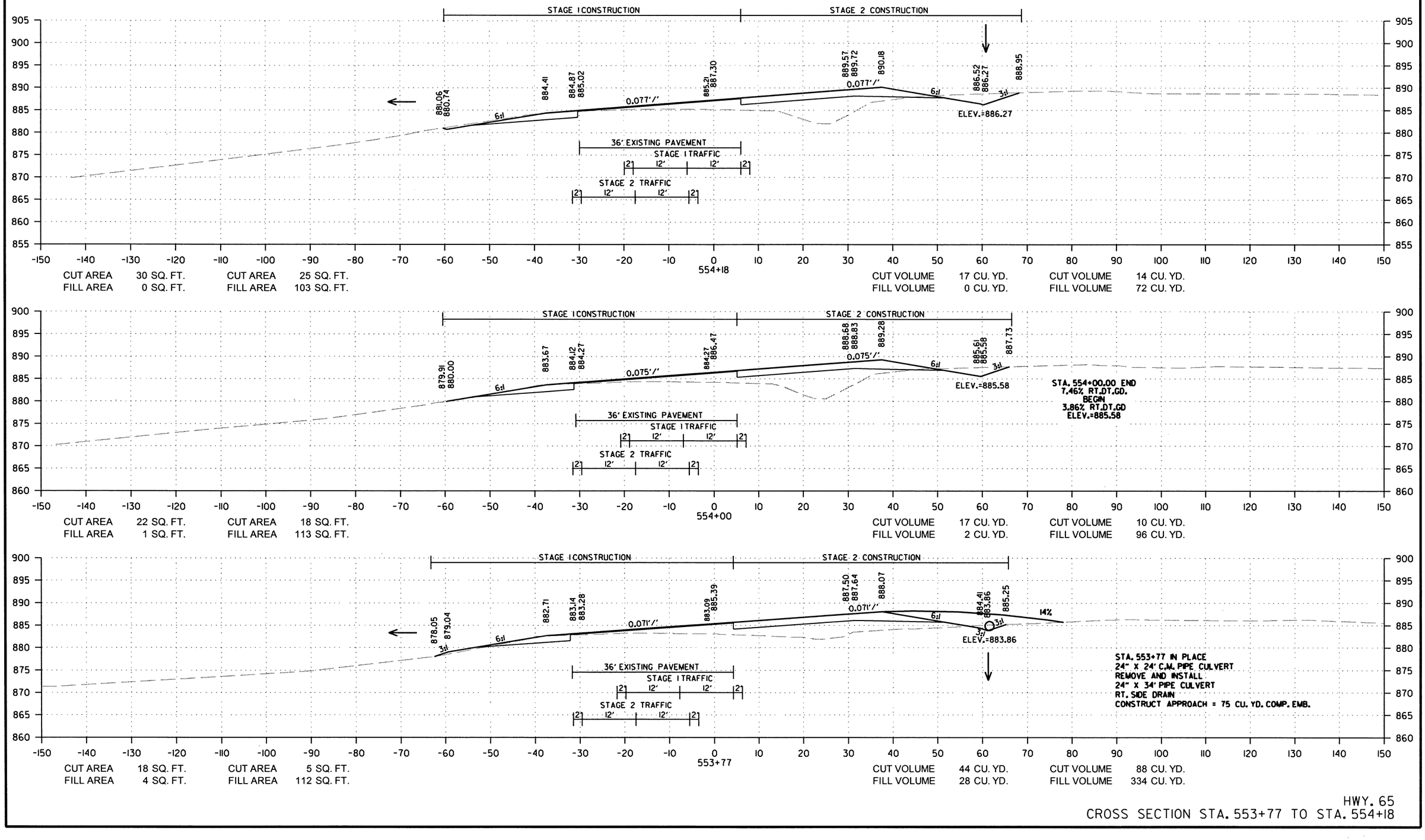
HWY. 65
CROSS SECTION STA. 552+00 TO STA. 553+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	311	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 553+77 TO STA. 554+18

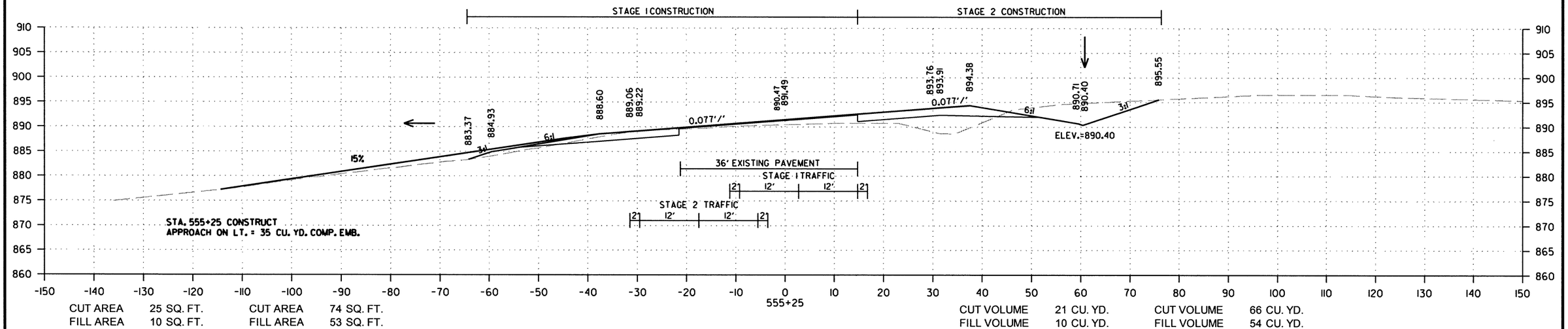
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	312	605

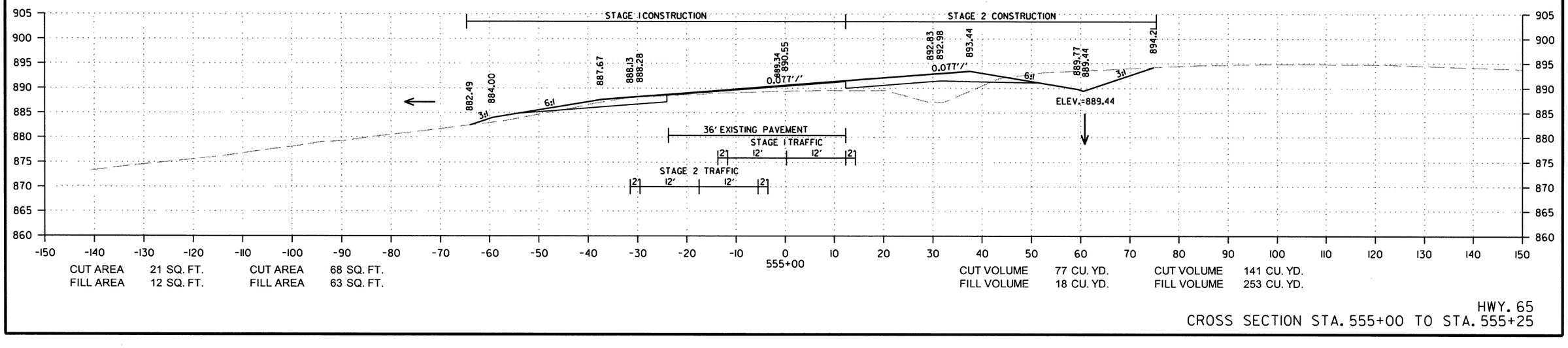
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 25 SQ. FT. CUT AREA 74 SQ. FT.
FILL AREA 10 SQ. FT. FILL AREA 53 SQ. FT.

CUT VOLUME 21 CU. YD. CUT VOLUME 66 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 54 CU. YD.



CUT AREA 21 SQ. FT. CUT AREA 68 SQ. FT.
FILL AREA 12 SQ. FT. FILL AREA 63 SQ. FT.

CUT VOLUME 77 CU. YD. CUT VOLUME 141 CU. YD.
FILL VOLUME 18 CU. YD. FILL VOLUME 253 CU. YD.

HWY. 65
CROSS SECTION STA. 555+00 TO STA. 555+25

11/13/2018

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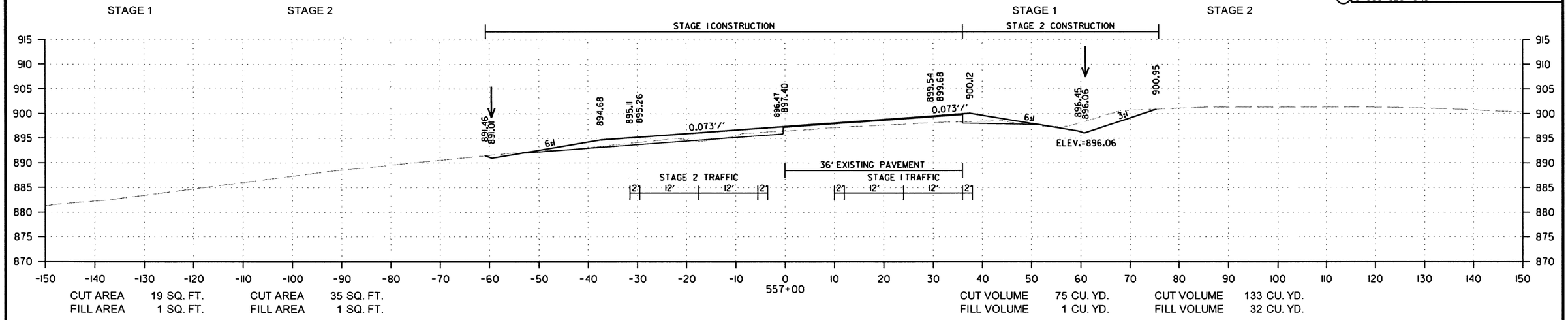
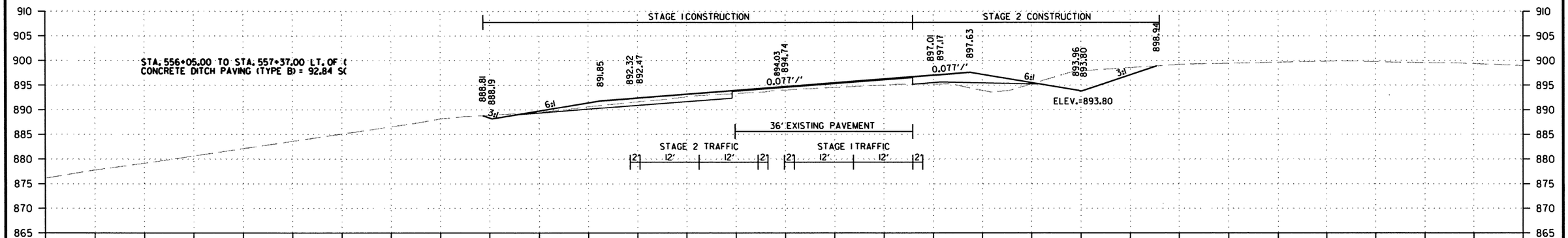
				6	ARK.			
				JOB NO.		CA0801	313	605

(2) CROSS SECTIONS



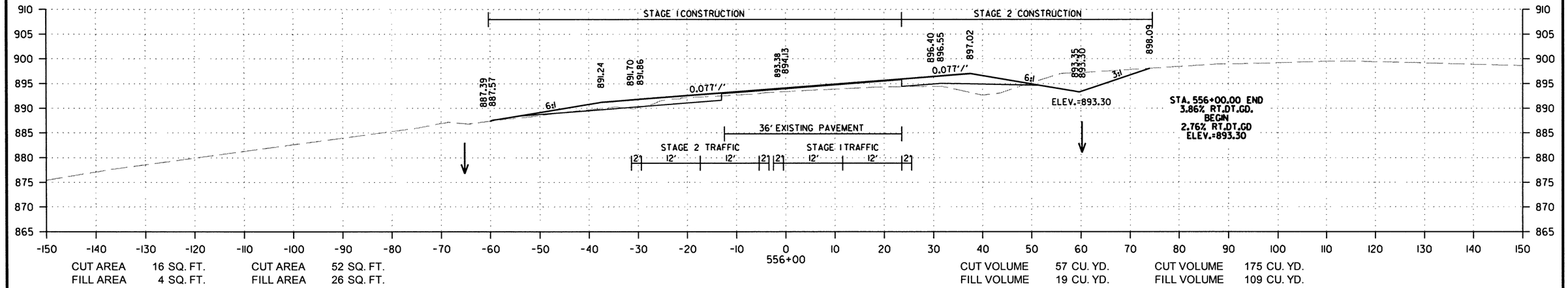
CUT AREA 19 SQ. FT. CUT AREA 35 SQ. FT.
FILL AREA 1 SQ. FT. FILL AREA 1 SQ. FT.

CUT VOLUME 75 CU. YD. CUT VOLUME 133 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 32 CU. YD.



CUT AREA 30 SQ. FT. CUT AREA 53 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 20 SQ. FT.

CUT VOLUME 15 CU. YD. CUT VOLUME 35 CU. YD.
FILL VOLUME 1 CU. YD. FILL VOLUME 15 CU. YD.



CUT AREA 16 SQ. FT. CUT AREA 52 SQ. FT.
FILL AREA 4 SQ. FT. FILL AREA 26 SQ. FT.

CUT VOLUME 57 CU. YD. CUT VOLUME 175 CU. YD.
FILL VOLUME 19 CU. YD. FILL VOLUME 109 CU. YD.

HWY. 65
CROSS SECTION STA. 556+00 TO STA. 557+00

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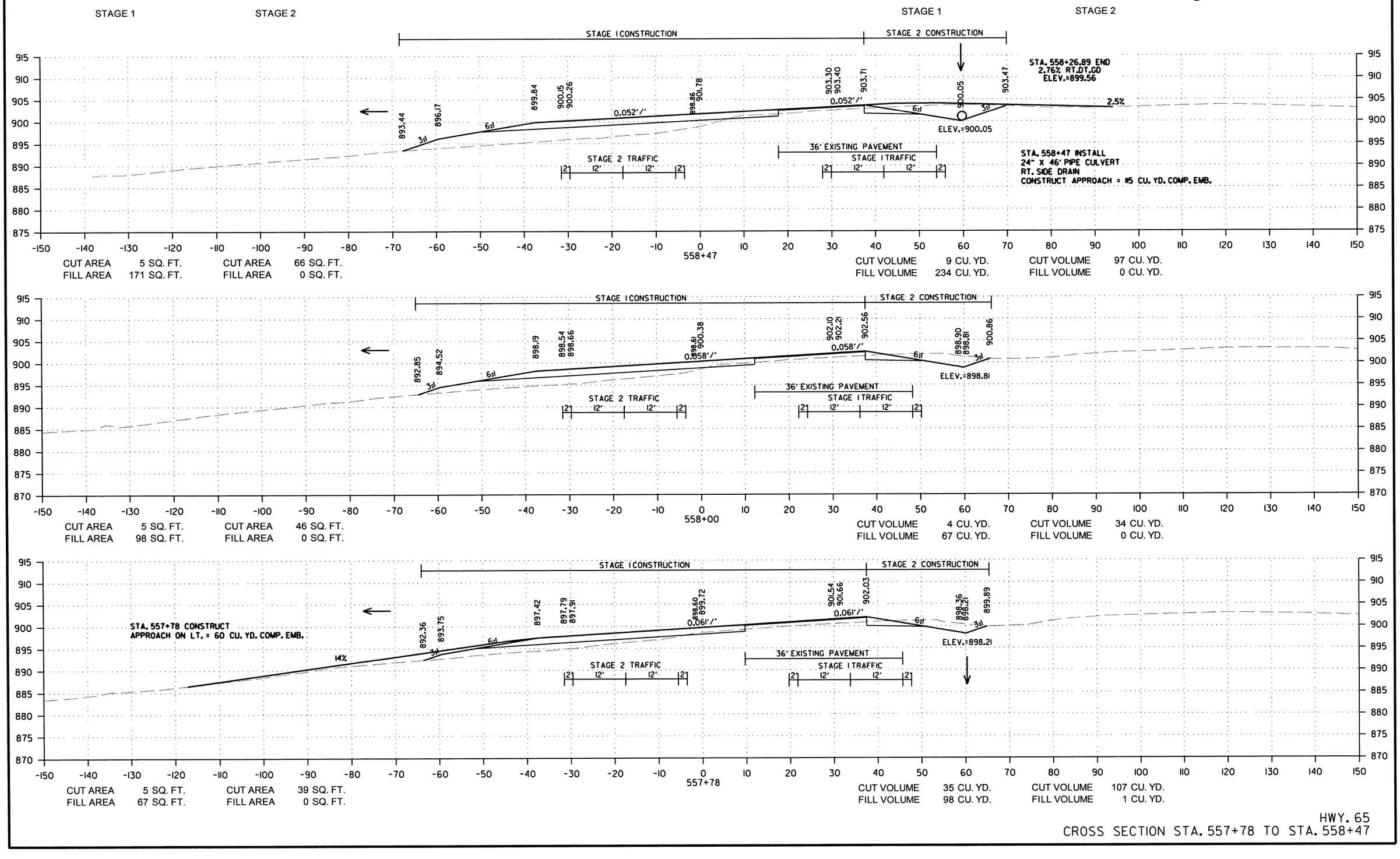
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	314	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 557+78 TO STA. 558+47

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	315	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2

CUT AREA 2 SQ. FT. CUT AREA 105 SQ. FT.
FILL AREA 362 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 15 CU. YD. CUT VOLUME 379 CU. YD.
FILL VOLUME 1068 CU. YD. FILL VOLUME 0 CU. YD.

CUT AREA 7 SQ. FT. CUT AREA 100 SQ. FT.
FILL AREA 215 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 24 CU. YD. CUT VOLUME 329 CU. YD.
FILL VOLUME 825 CU. YD. FILL VOLUME 0 CU. YD.

CUT AREA 6 SQ. FT. CUT AREA 77 SQ. FT.
FILL AREA 231 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 12 CU. YD. CUT VOLUME 140 CU. YD.
FILL VOLUME 394 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 65
CROSS SECTION STA. 559+00 TO STA. 561+00

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RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	316	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2

HWY. 65
CROSS SECTION STA. 562+00 TO STA. 563+00

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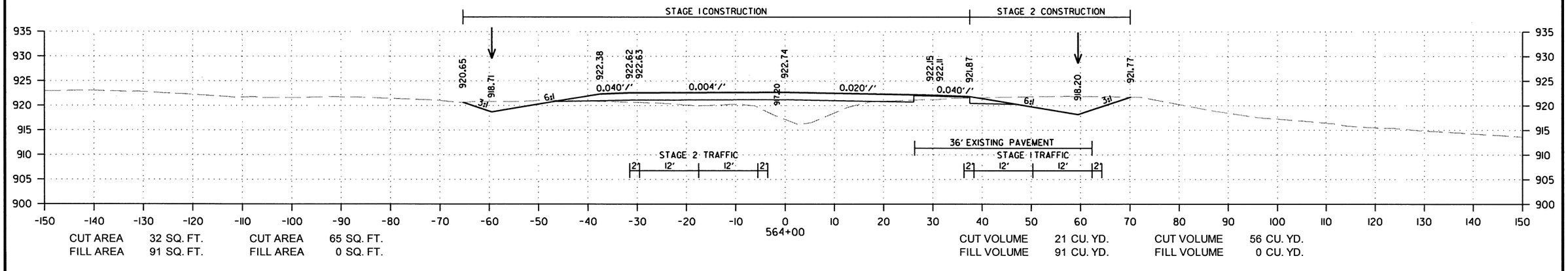
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	317	605

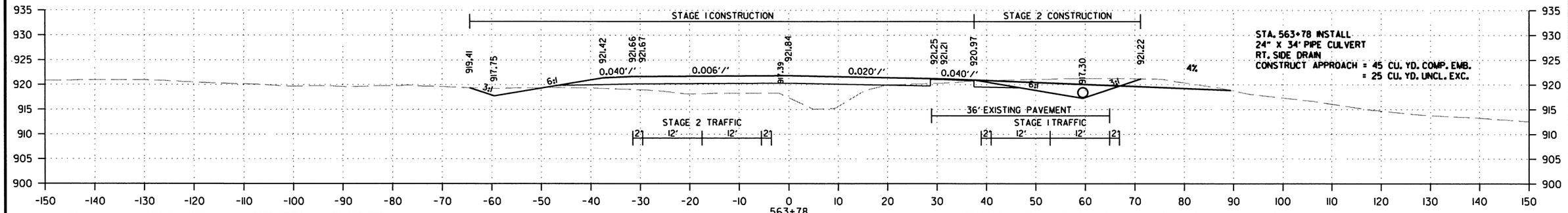
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



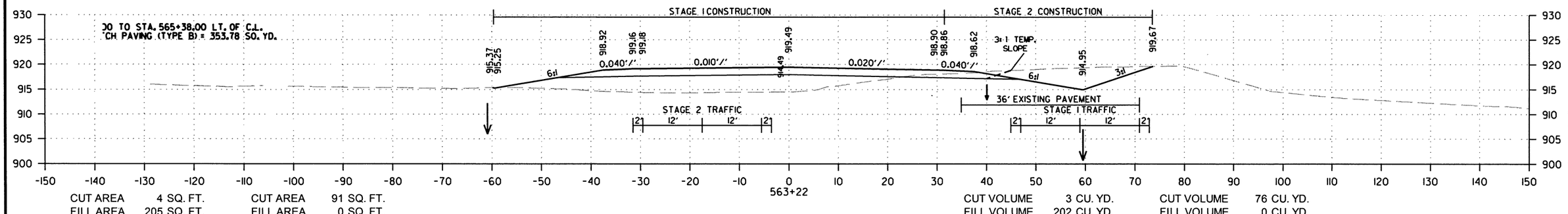
CUT AREA 32 SQ. FT. CUT AREA 65 SQ. FT.
FILL AREA 91 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 21 CU. YD. CUT VOLUME 56 CU. YD.
FILL VOLUME 91 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 21 SQ. FT. CUT AREA 72 SQ. FT.
FILL AREA 134 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 26 CU. YD. CUT VOLUME 170 CU. YD.
FILL VOLUME 351 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 4 SQ. FT. CUT AREA 91 SQ. FT.
FILL AREA 205 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 3 CU. YD. CUT VOLUME 76 CU. YD.
FILL VOLUME 202 CU. YD. FILL VOLUME 0 CU. YD.

HWY. 65
CROSS SECTION STA. 563+22 TO STA. 564+00

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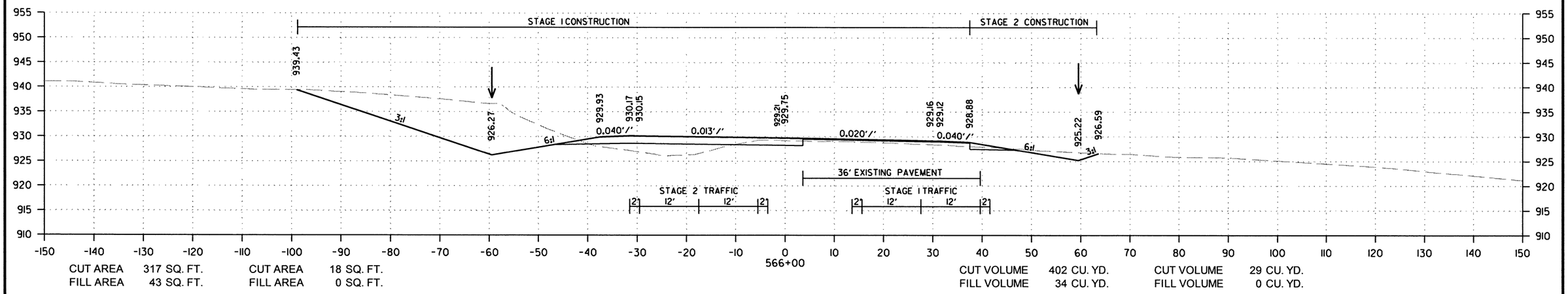
RCA0801.DGN

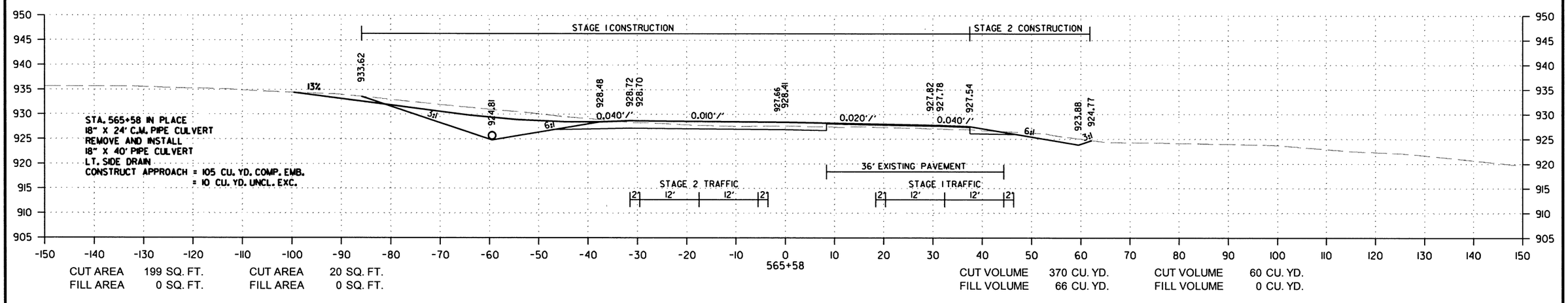
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	318	605

(2) CROSS SECTIONS



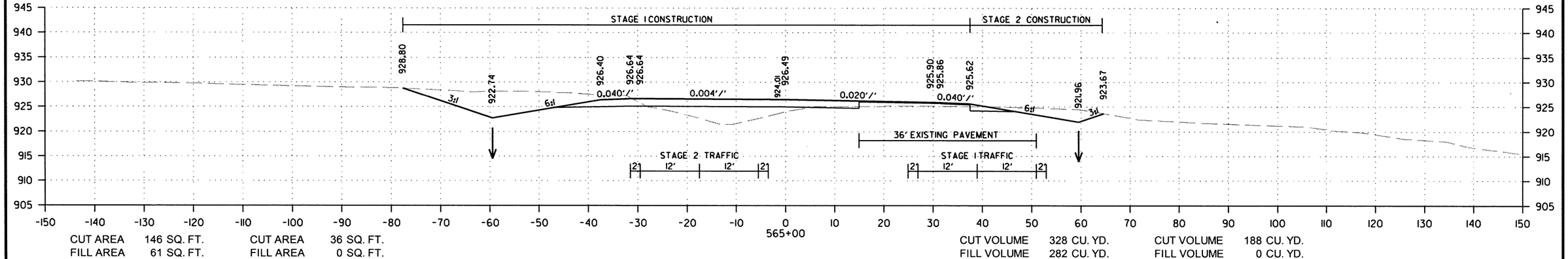
CUT AREA 317 SQ. FT. CUT AREA 18 SQ. FT.
FILL AREA 43 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 402 CU. YD. CUT VOLUME 29 CU. YD.
FILL VOLUME 34 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 199 SQ. FT. CUT AREA 20 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 370 CU. YD. CUT VOLUME 60 CU. YD.
FILL VOLUME 66 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 146 SQ. FT. CUT AREA 36 SQ. FT.
FILL AREA 61 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 328 CU. YD. CUT VOLUME 188 CU. YD.
FILL VOLUME 282 CU. YD. FILL VOLUME 0 CU. YD.

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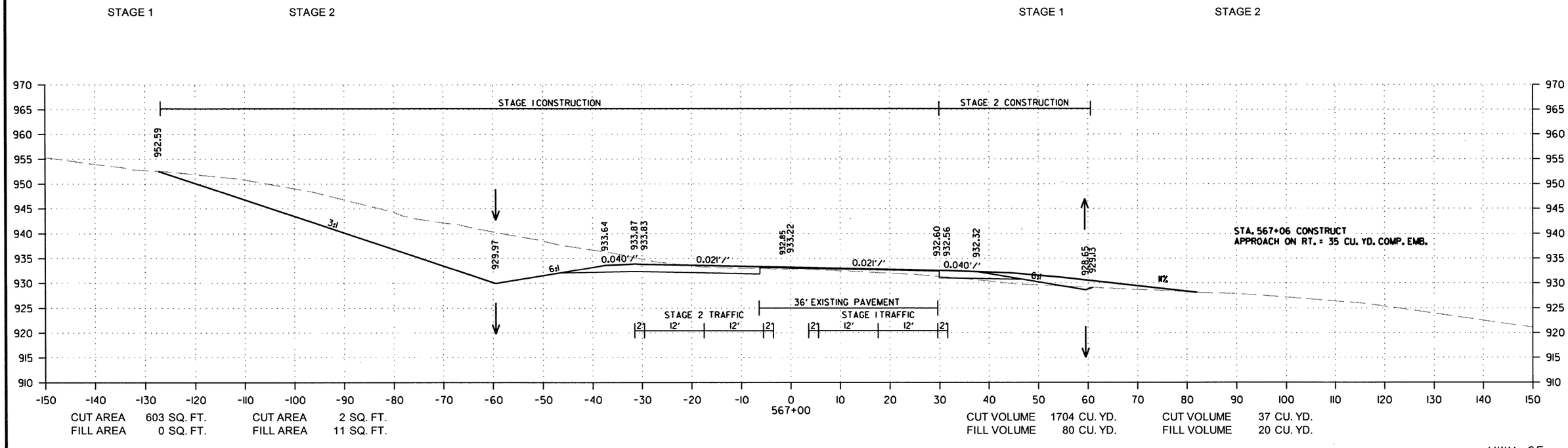
HWY. 65
CROSS SECTION STA. 565+00 TO STA. 566+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	319	605

(2) CROSS SECTIONS



CUT AREA 603 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 11 SQ. FT.

CUT VOLUME 1704 CU. YD. CUT VOLUME 37 CU. YD.
FILL VOLUME 80 CU. YD. FILL VOLUME 20 CU. YD.

HWY. 65
CROSS SECTION STA. 567+00 TO STA. 567+00

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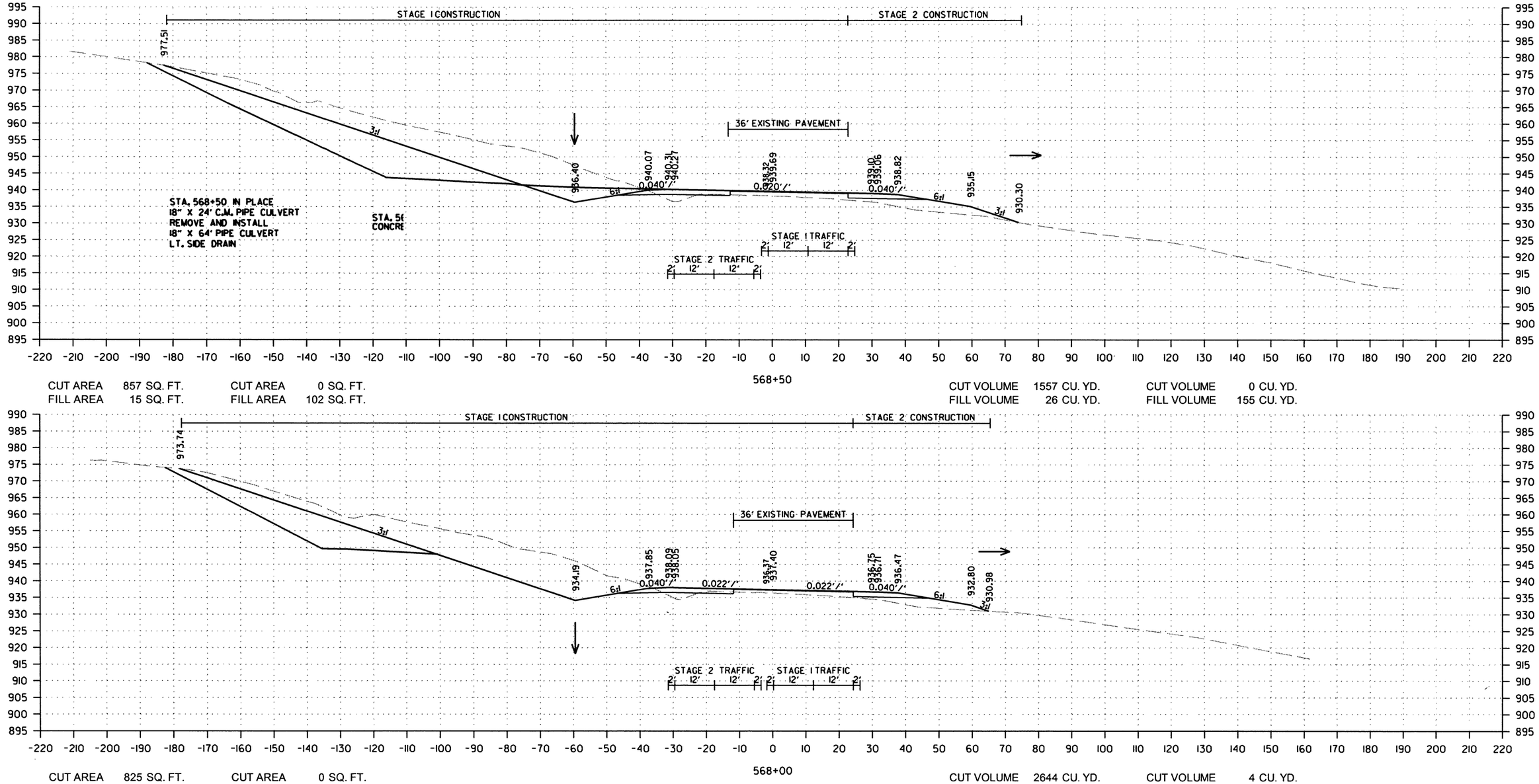
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	320	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



568+50

CUT AREA	857 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	1557 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	15 SQ. FT.	FILL AREA	102 SQ. FT.	FILL VOLUME	26 CU. YD.	FILL VOLUME	155 CU. YD.

568+00

CUT AREA	825 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	2644 CU. YD.	CUT VOLUME	4 CU. YD.
FILL AREA	12 SQ. FT.	FILL AREA	66 SQ. FT.	FILL VOLUME	23 CU. YD.	FILL VOLUME	141 CU. YD.

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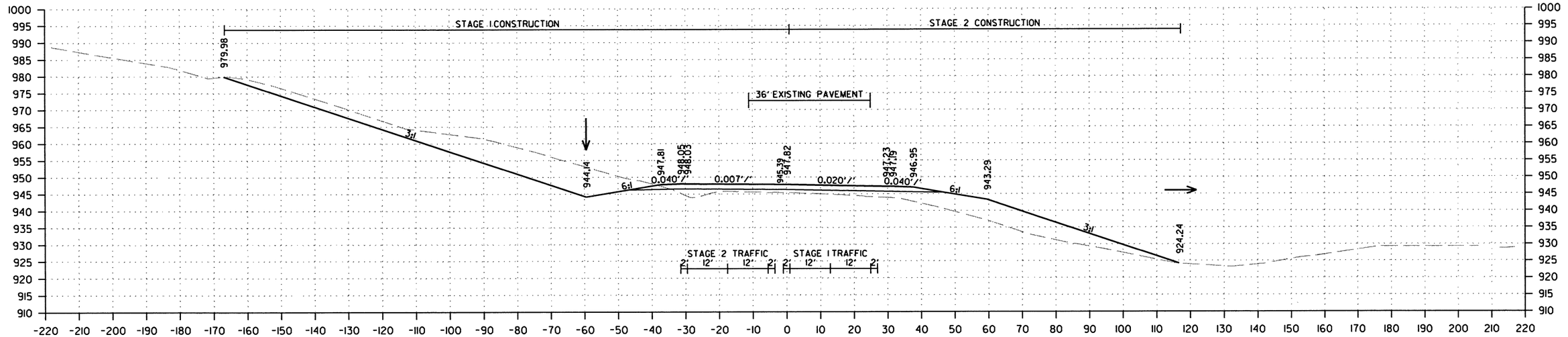
HWY. 65
CROSS SECTION STA. 568+00 TO STA. 568+50

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	321	605

(2) CROSS SECTIONS

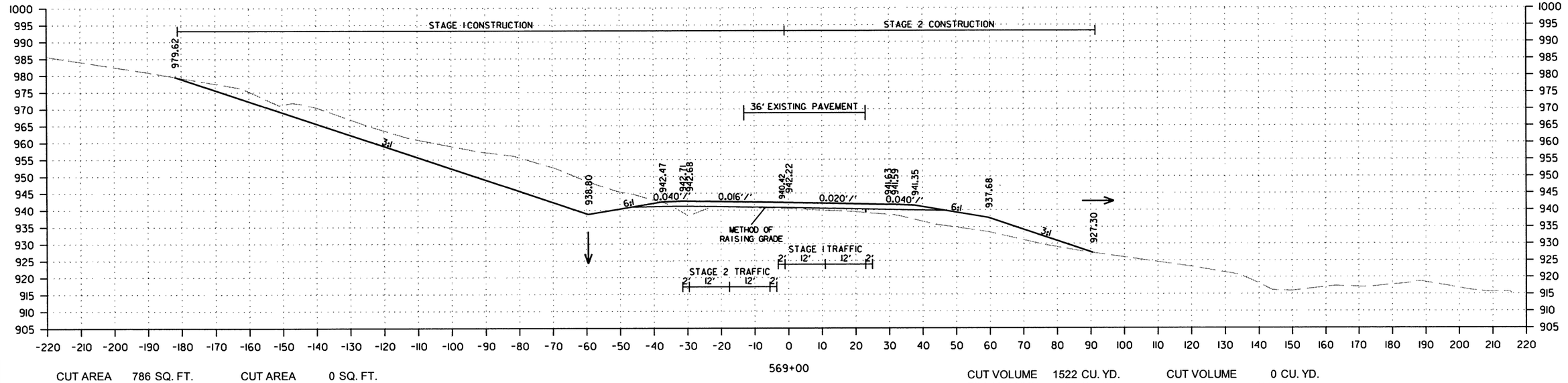
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 570 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 38 SQ. FT. FILL AREA 379 SQ. FT.

570+00

CUT VOLUME 2511 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 104 CU. YD. FILL VOLUME 1049 CU. YD.



CUT AREA 786 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 18 SQ. FT. FILL AREA 187 SQ. FT.

569+00

CUT VOLUME 1522 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 31 CU. YD. FILL VOLUME 267 CU. YD.

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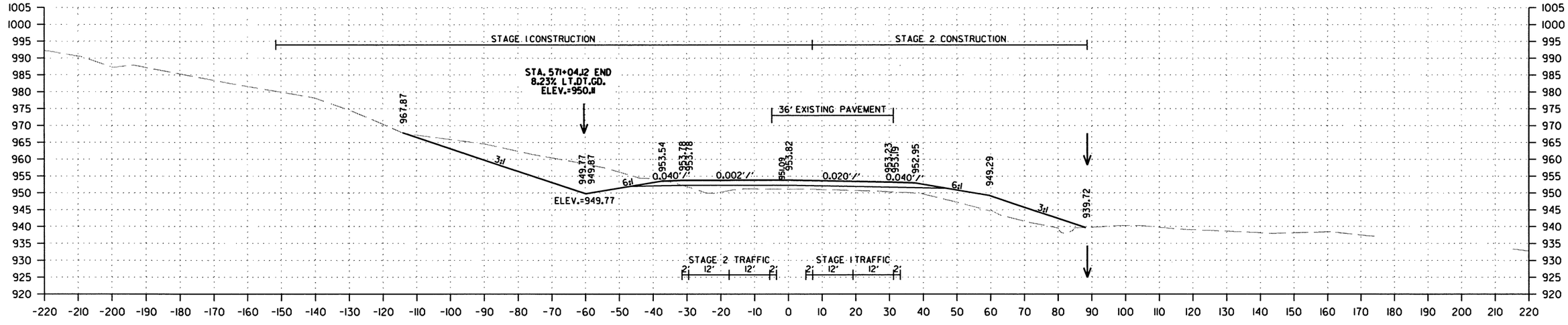
HWY. 65
CROSS SECTION STA. 569+00 TO STA. 570+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	322	605

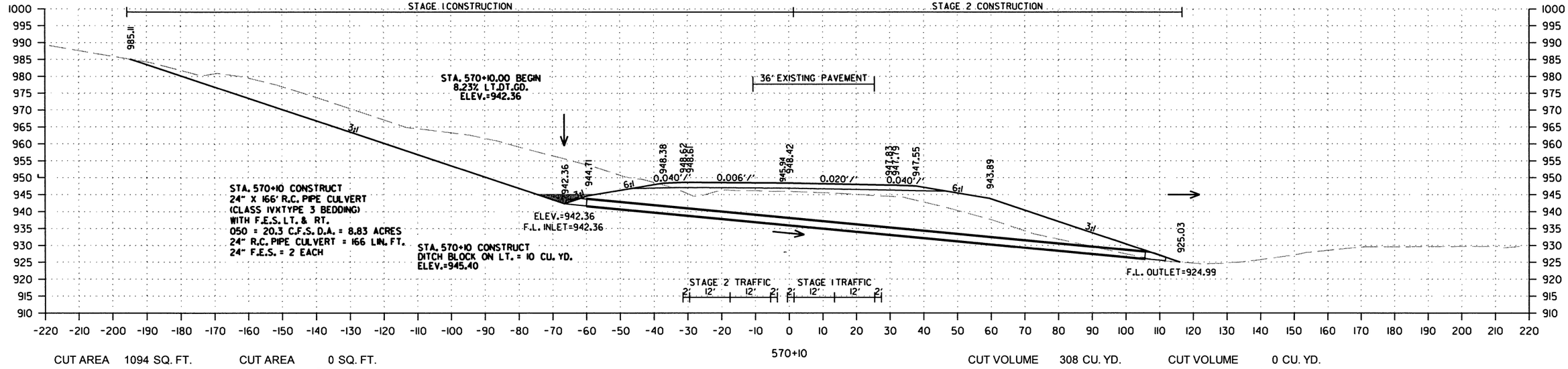
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



571+00

CUT AREA	367 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	2434 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	367 SQ. FT.	FILL AREA	212 SQ. FT.	FILL VOLUME	678 CU. YD.	FILL VOLUME	1006 CU. YD.



570+10

CUT AREA	1094 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	308 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	40 SQ. FT.	FILL AREA	392 SQ. FT.	FILL VOLUME	14 CU. YD.	FILL VOLUME	143 CU. YD.

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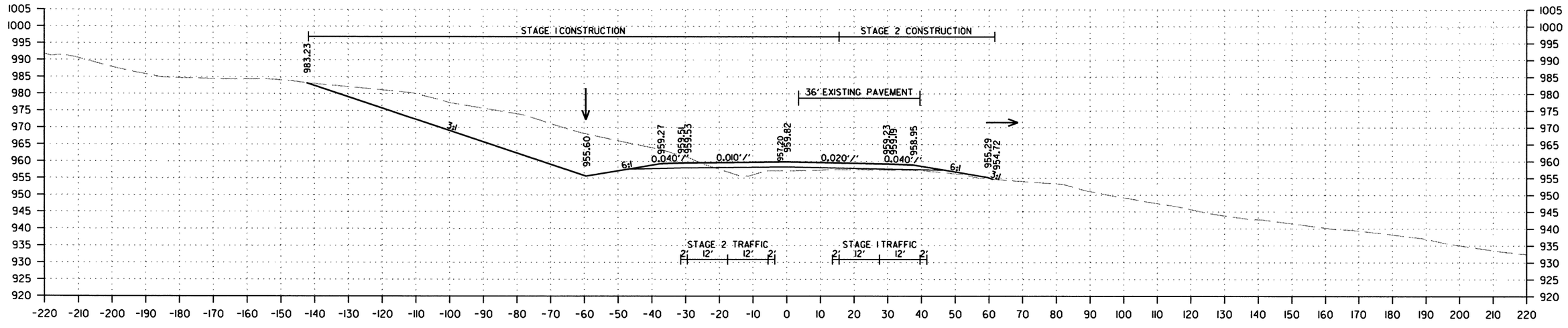
HWY. 65
CROSS SECTION STA. 570+10 TO STA. 571+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	323	605

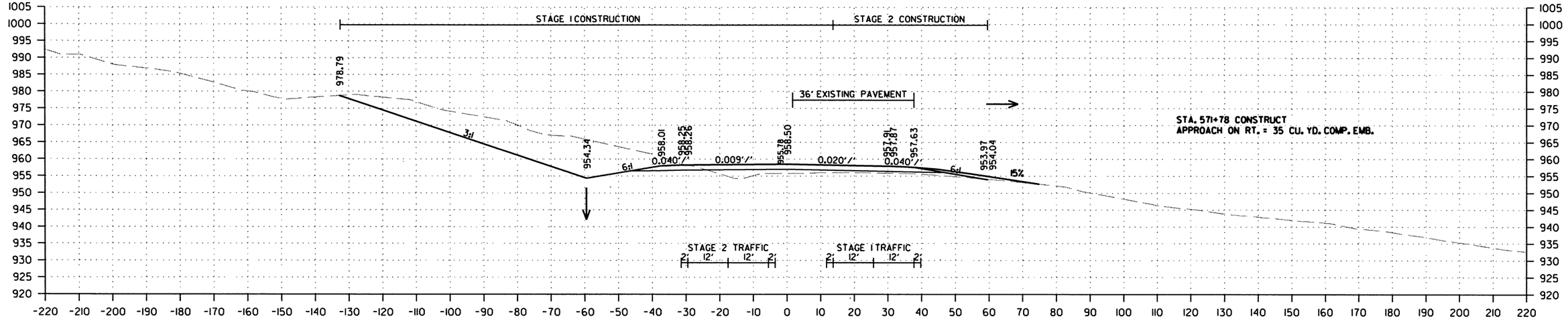
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



572+00

CUT AREA	891 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	45 SQ. FT.	FILL AREA	20 SQ. FT.
CUT VOLUME	449 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	38 CU. YD.	FILL VOLUME	20 CU. YD.



571+78

CUT AREA	212 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	49 SQ. FT.	FILL AREA	28 SQ. FT.
CUT VOLUME	836 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	601 CU. YD.	FILL VOLUME	347 CU. YD.

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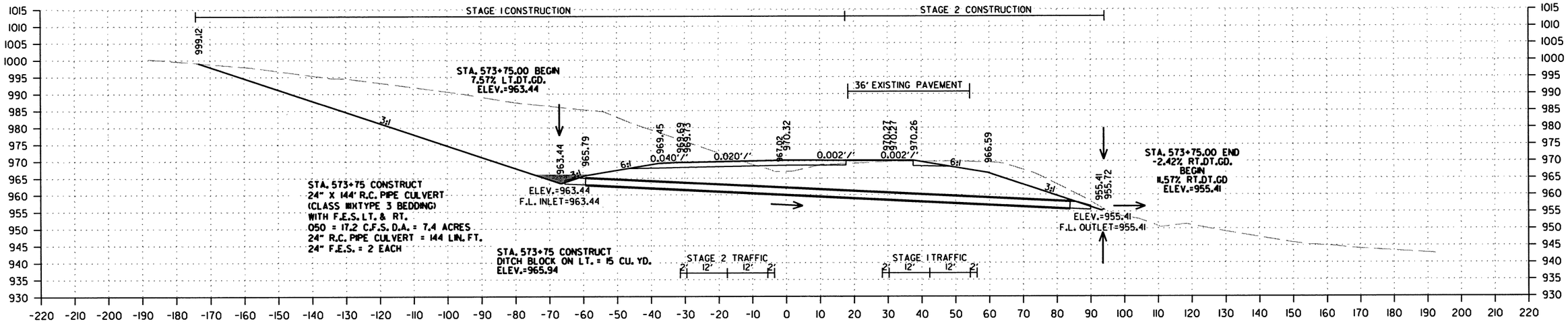
HWY. 65
CROSS SECTION STA. 571+78 TO STA. 572+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	324	605

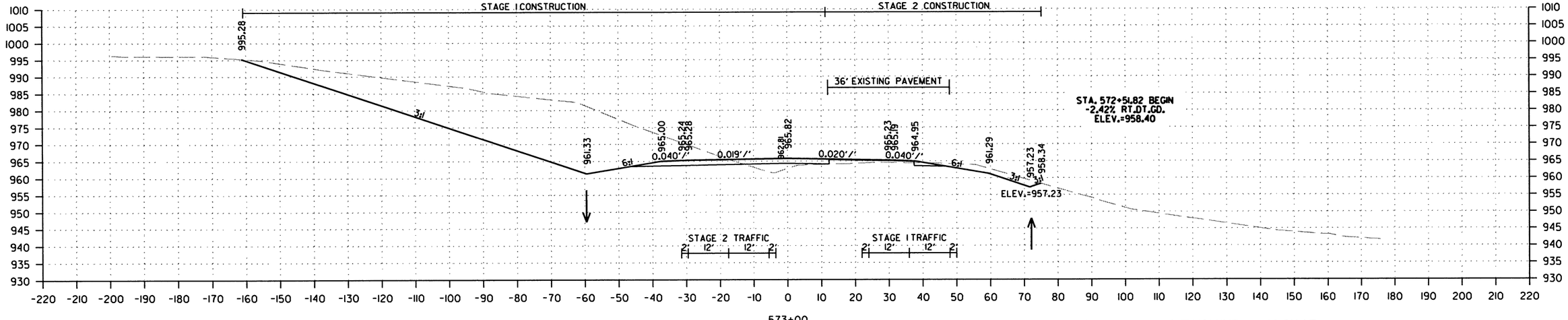
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



573+75

CUT AREA	1880 SQ. FT.	CUT AREA	156 SQ. FT.
FILL AREA	21 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	4637 CU. YD.	CUT VOLUME	288 CU. YD.
FILL VOLUME	66 CU. YD.	FILL VOLUME	0 CU. YD.



573+00

CUT AREA	1459 SQ. FT.	CUT AREA	52 SQ. FT.
FILL AREA	27 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	4352 CU. YD.	CUT VOLUME	96 CU. YD.
FILL VOLUME	132 CU. YD.	FILL VOLUME	38 CU. YD.

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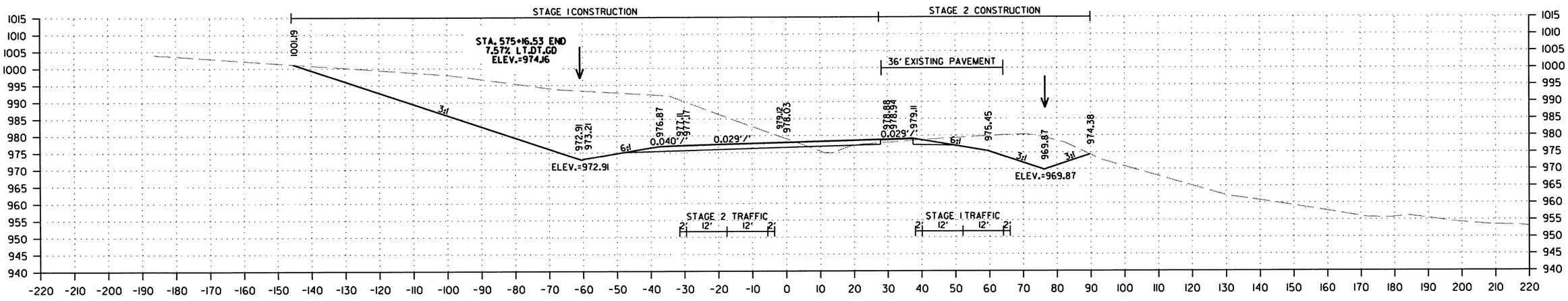
HWY. 65
CROSS SECTION STA. 573+00 TO STA. 573+75

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	325	605

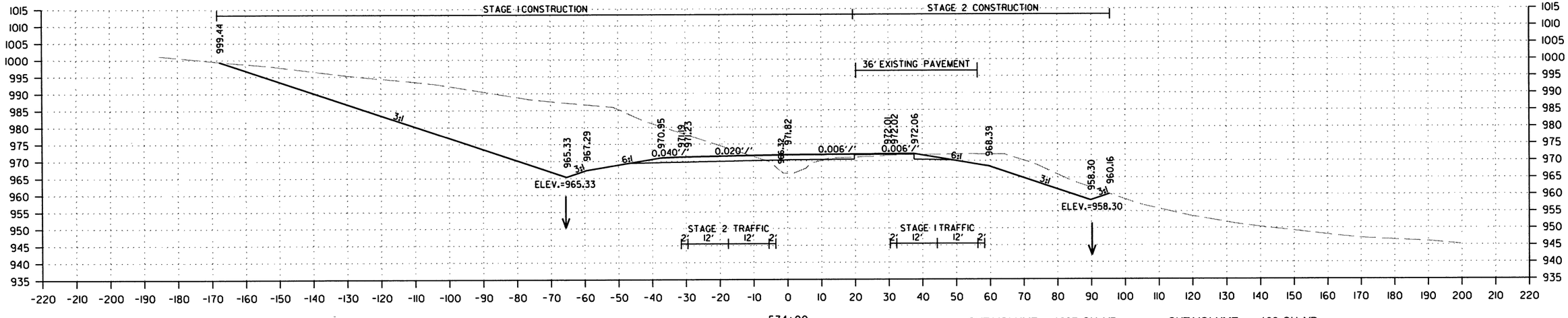
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



575+00

CUT AREA	1699 SQ. FT.	CUT AREA	248 SQ. FT.
FILL AREA	15 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	6456 CU. YD.	CUT VOLUME	817 CU. YD.
FILL VOLUME	98 CU. YD.	FILL VOLUME	0 CU. YD.



574+00

CUT AREA	1787 SQ. FT.	CUT AREA	193 SQ. FT.
FILL AREA	38 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	1697 CU. YD.	CUT VOLUME	162 CU. YD.
FILL VOLUME	27 CU. YD.	FILL VOLUME	0 CU. YD.

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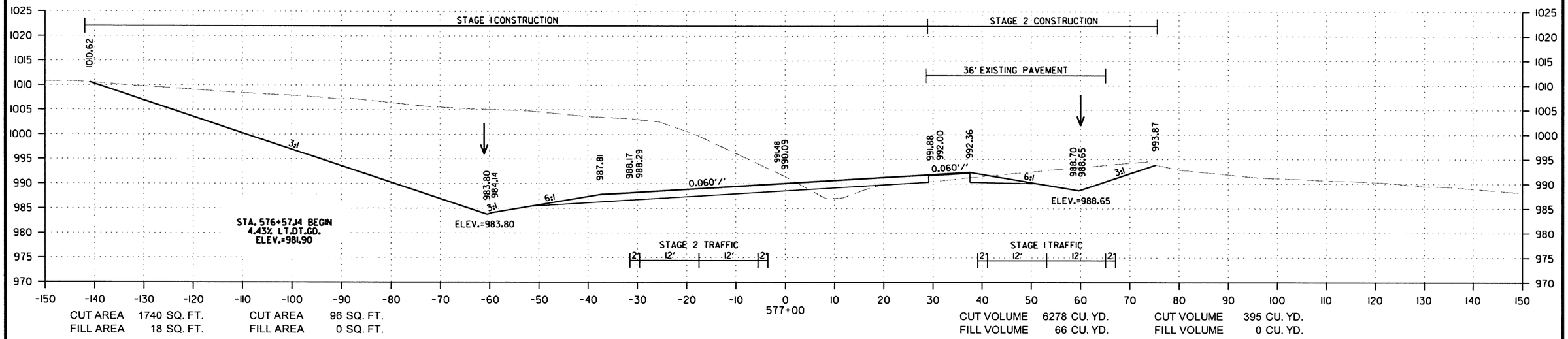
HWY. 65
CROSS SECTION STA. 574+00 TO STA. 575+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	326	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 576+00 TO STA. 577+00

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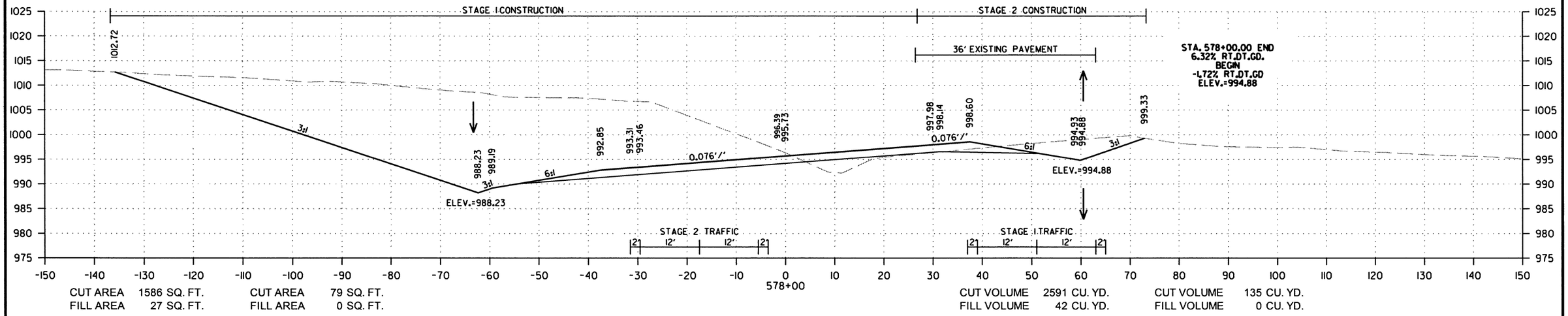
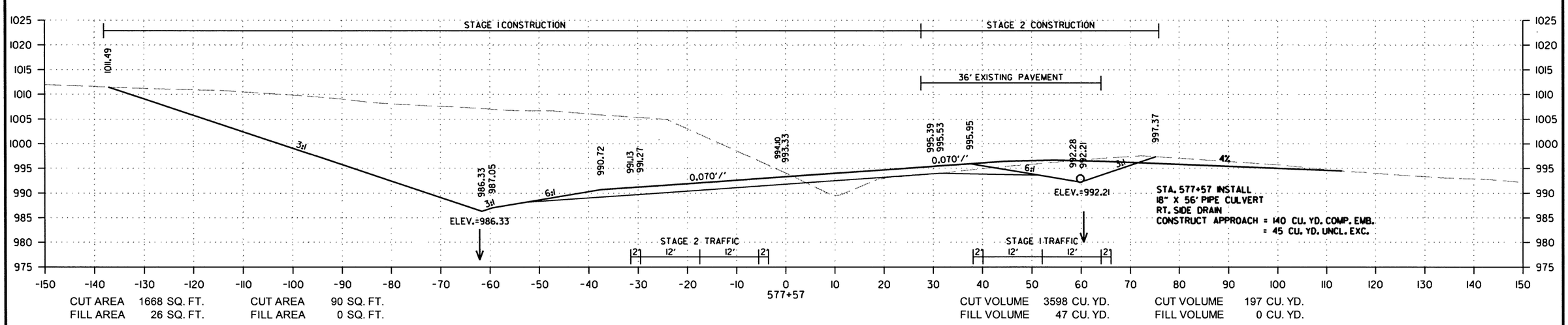
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	327	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





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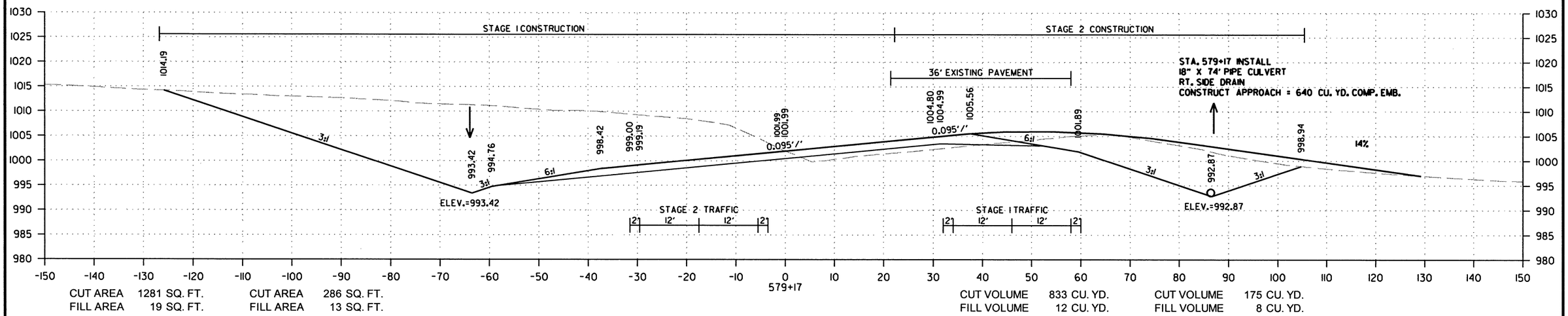
RCA0801.DGN

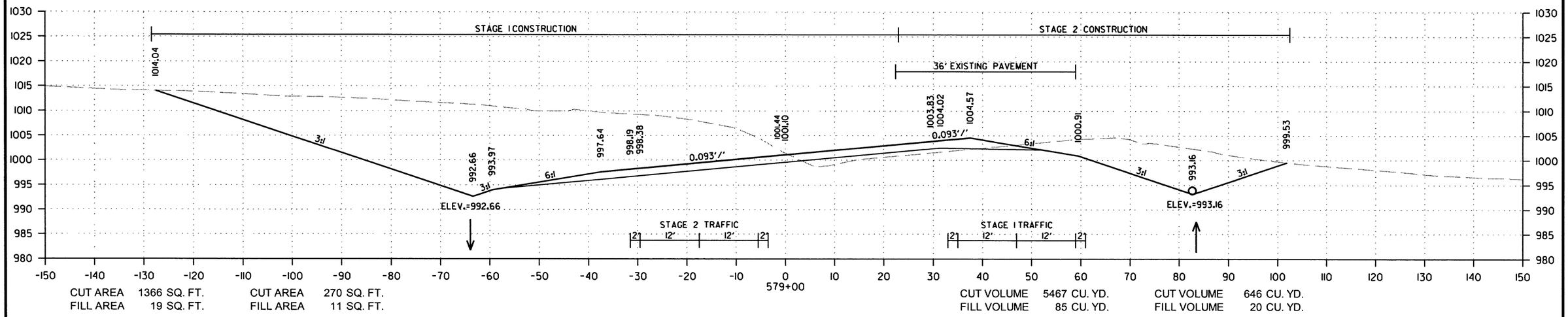
HWY. 65
CROSS SECTION STA. 577+57 TO STA. 578+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	328	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





11/13/2018

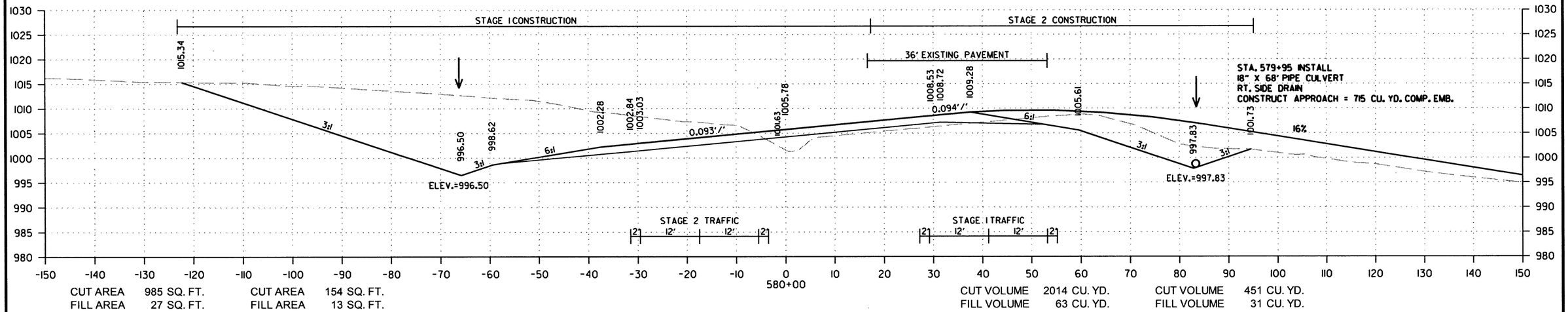
RCA0801.DGN

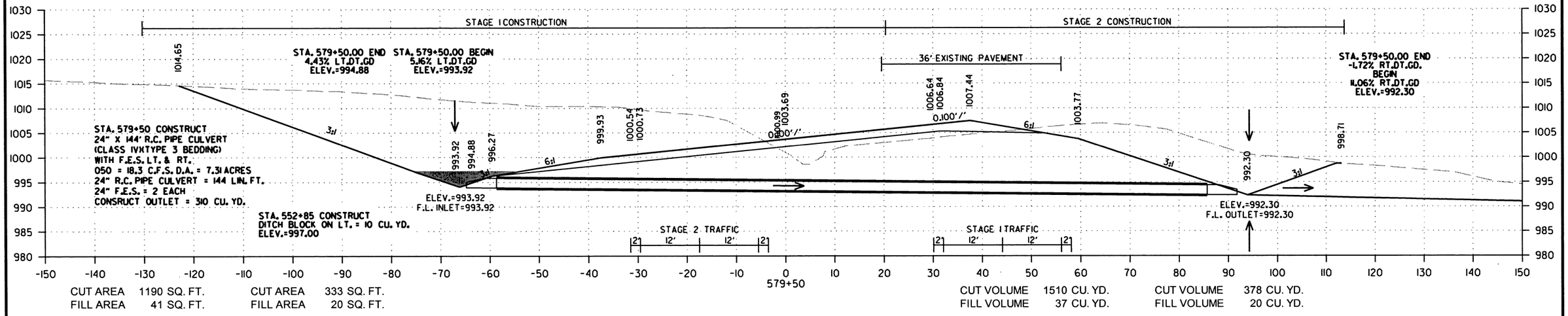
HWY. 65
CROSS SECTION STA. 579+00 TO STA. 579+17

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	329	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





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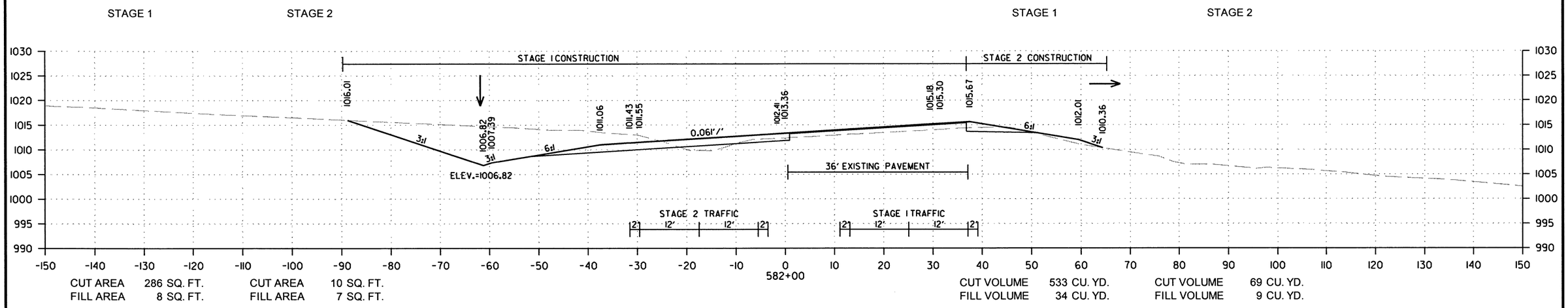
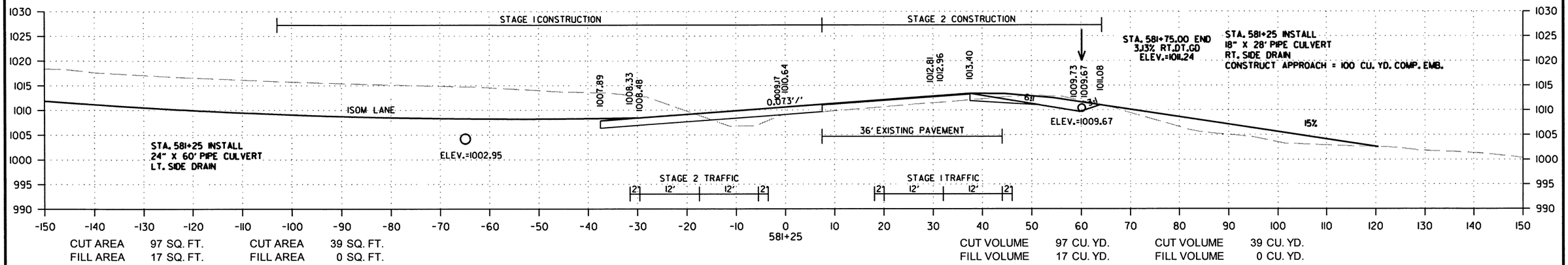
RCA0801.DGN

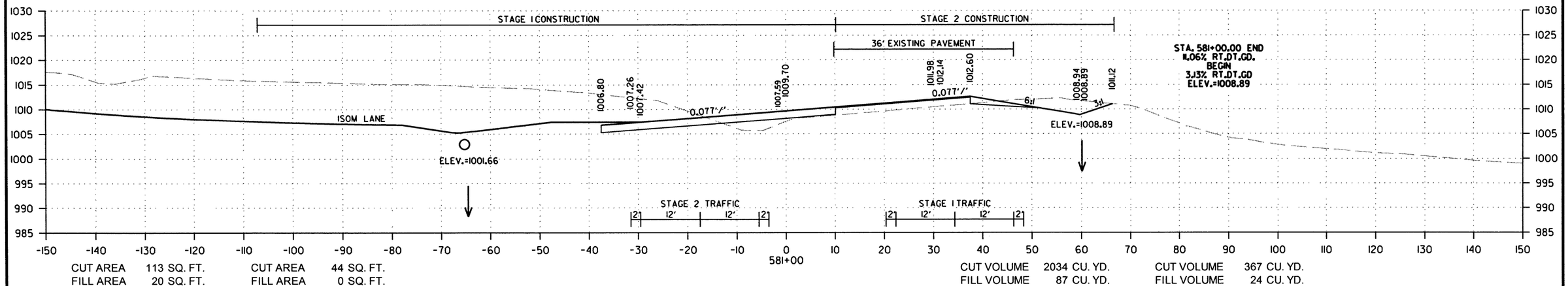
HWY. 65
CROSS SECTION STA. 579+50 TO STA. 580+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	330	605

(2) CROSS SECTIONS







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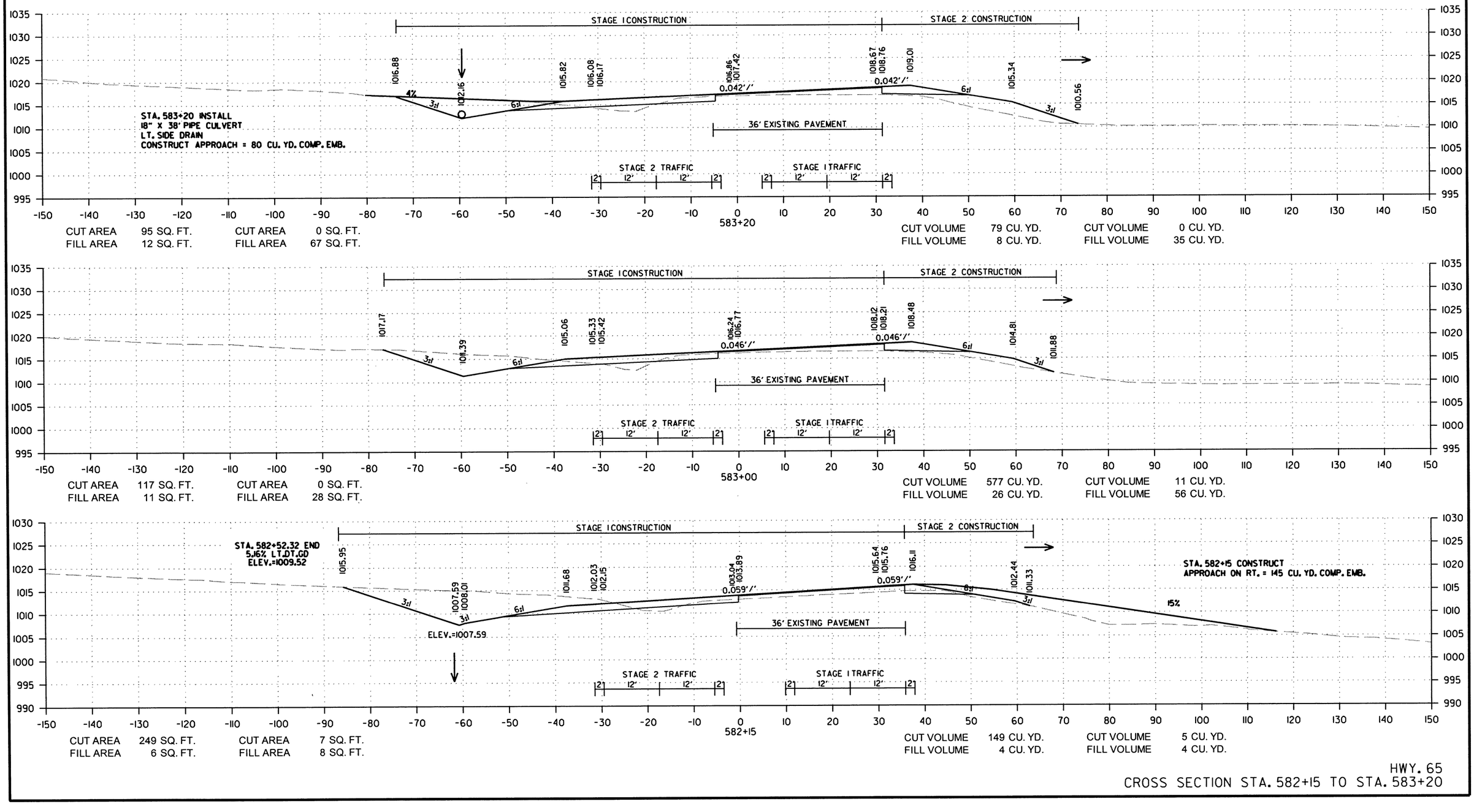
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 581+00 TO STA. 582+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	331	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 582+15 TO STA. 583+20

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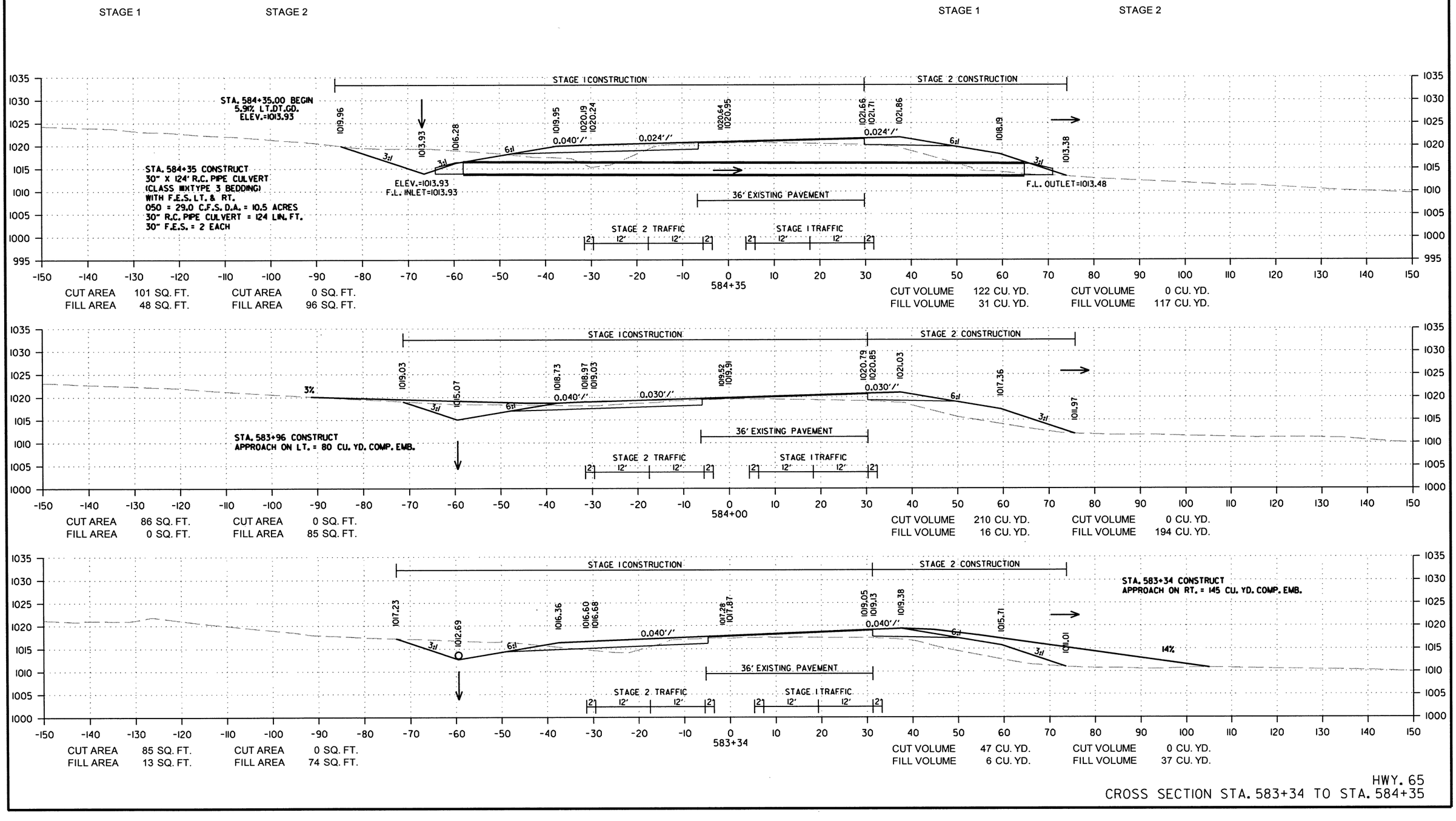
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	332	605

(2) CROSS SECTIONS



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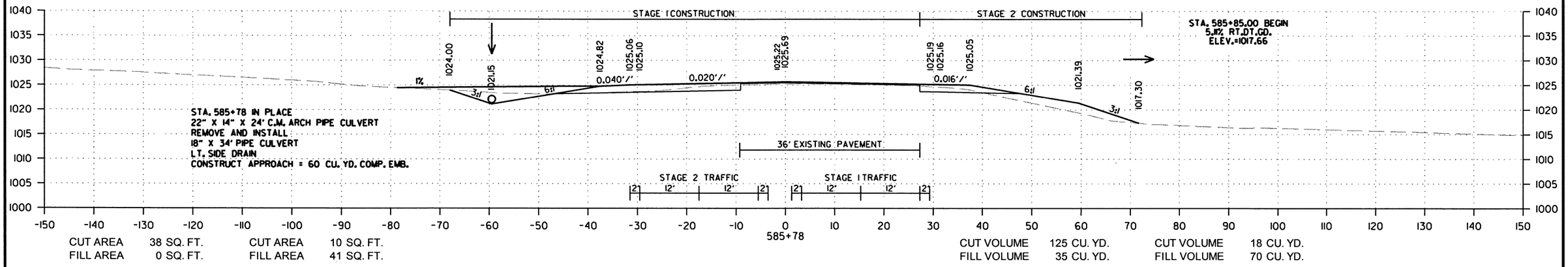
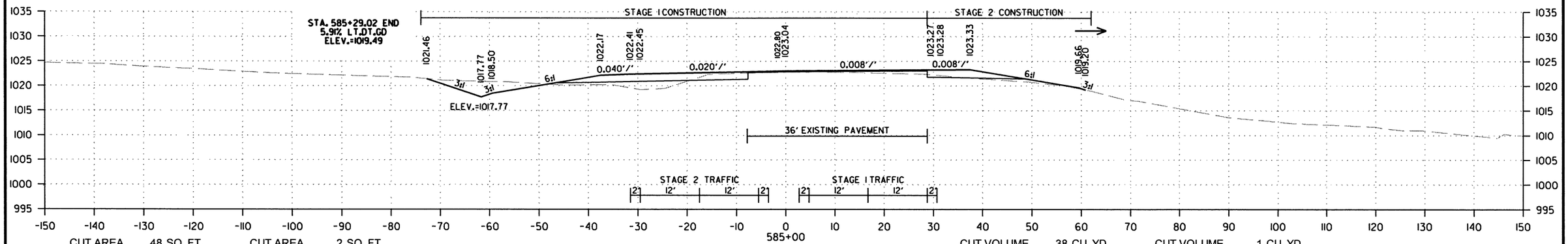
HWY. 65
CROSS SECTION STA. 583+34 TO STA. 584+35

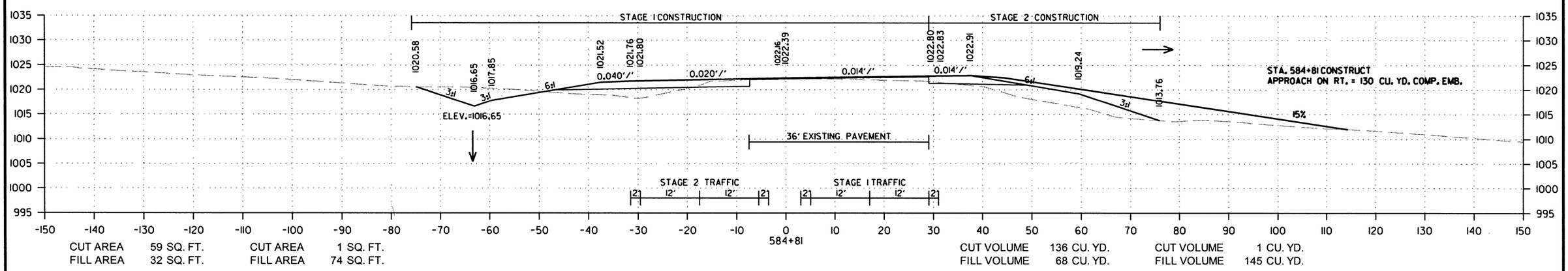
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	333	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2







HWY. 65
CROSS SECTION STA. 584+81 TO STA. 585+78

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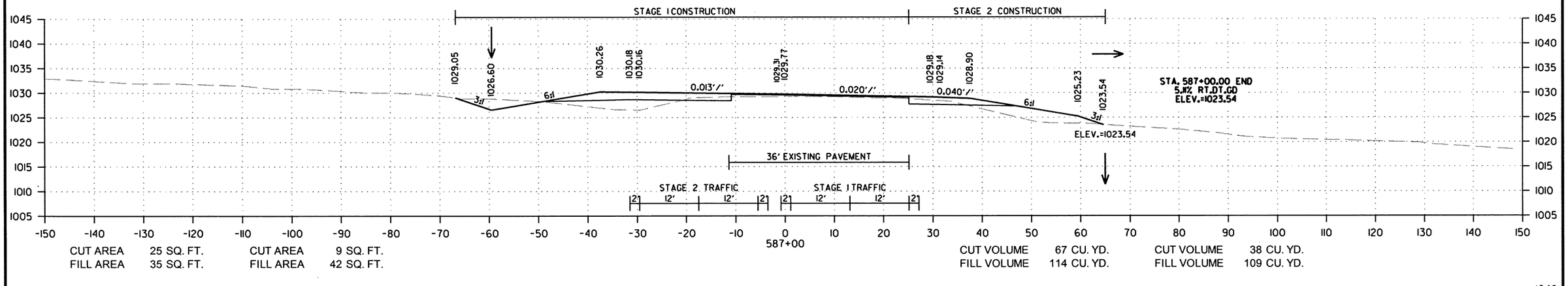
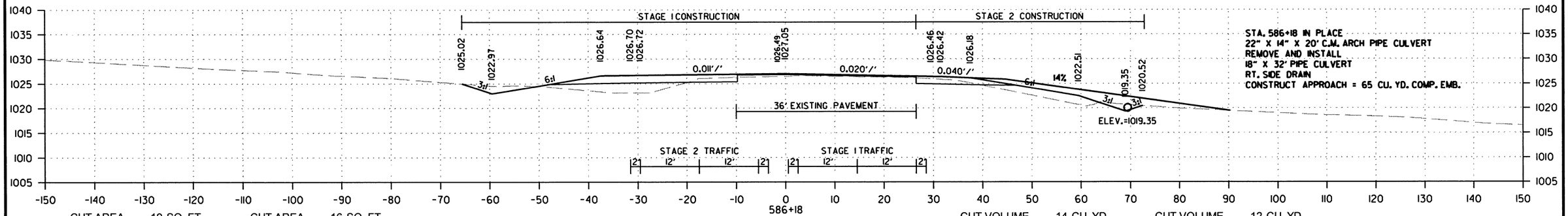
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	334	605

(2) CROSS SECTIONS

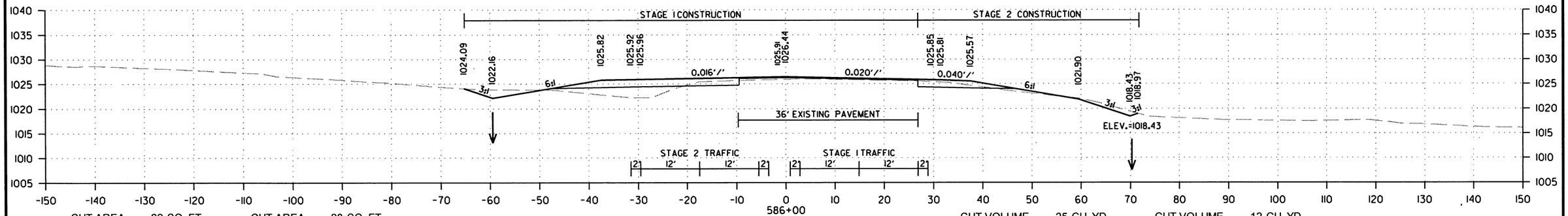
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 25 SQ. FT. CUT AREA 9 SQ. FT. CUT VOLUME 67 CU. YD. CUT VOLUME 38 CU. YD.
FILL AREA 35 SQ. FT. FILL AREA 42 SQ. FT. FILL VOLUME 114 CU. YD. FILL VOLUME 109 CU. YD.



CUT AREA 19 SQ. FT. CUT AREA 16 SQ. FT. CUT VOLUME 14 CU. YD. CUT VOLUME 12 CU. YD.
FILL AREA 41 SQ. FT. FILL AREA 30 SQ. FT. FILL VOLUME 26 CU. YD. FILL VOLUME 11 CU. YD.



CUT AREA 22 SQ. FT. CUT AREA 20 SQ. FT. CUT VOLUME 25 CU. YD. CUT VOLUME 12 CU. YD.
FILL AREA 37 SQ. FT. FILL AREA 4 SQ. FT. FILL VOLUME 15 CU. YD. FILL VOLUME 19 CU. YD.

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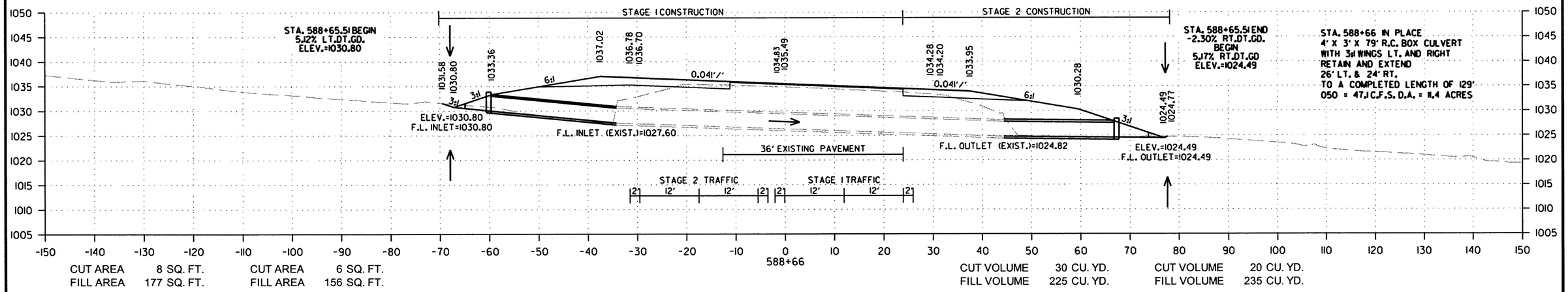
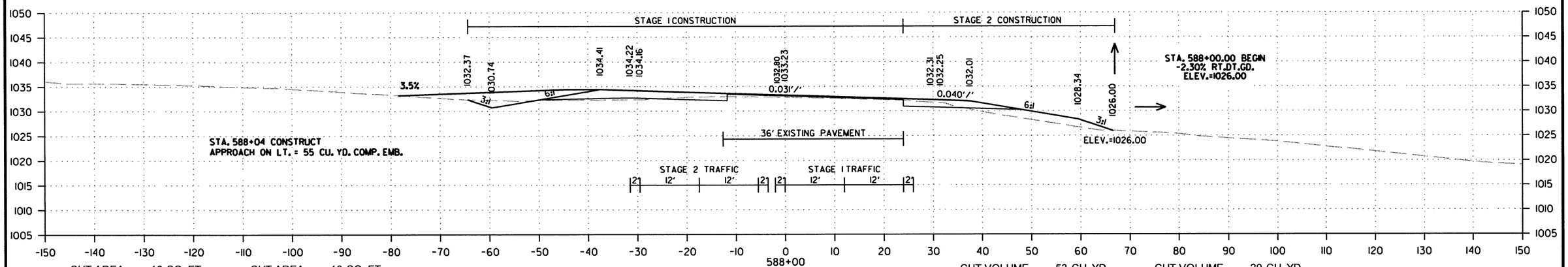
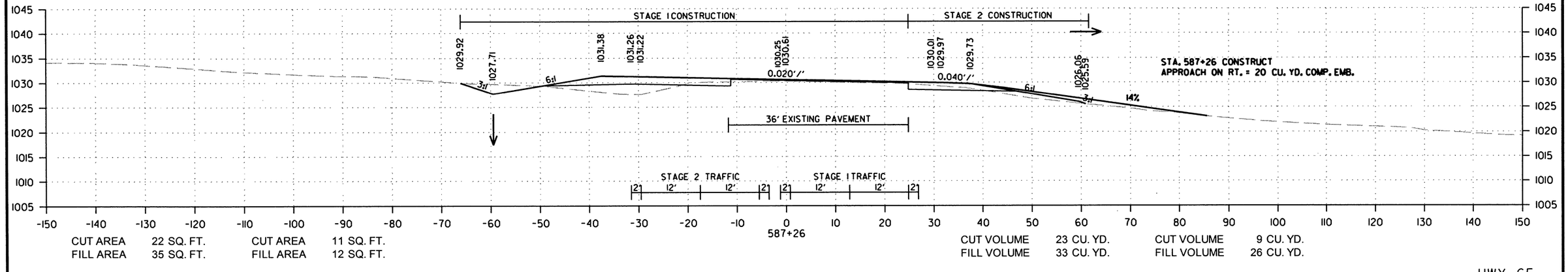
HWY. 65
CROSS SECTION STA. 586+00 TO STA. 587+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	335	605

(2) CROSS SECTIONS







HWY. 65
CROSS SECTION STA. 587+26 TO STA. 588+66

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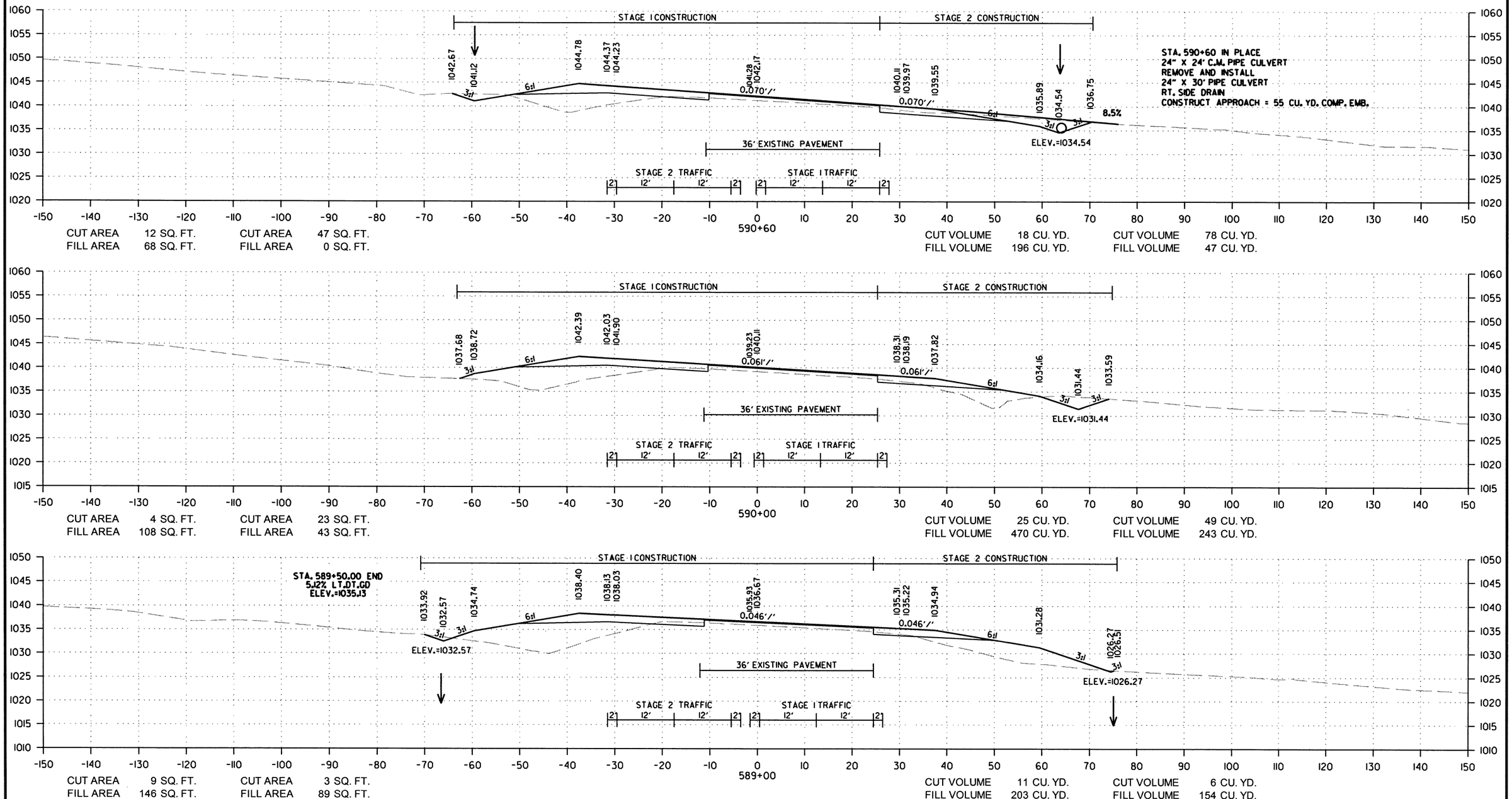
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	336	605

(2) CROSS SECTIONS



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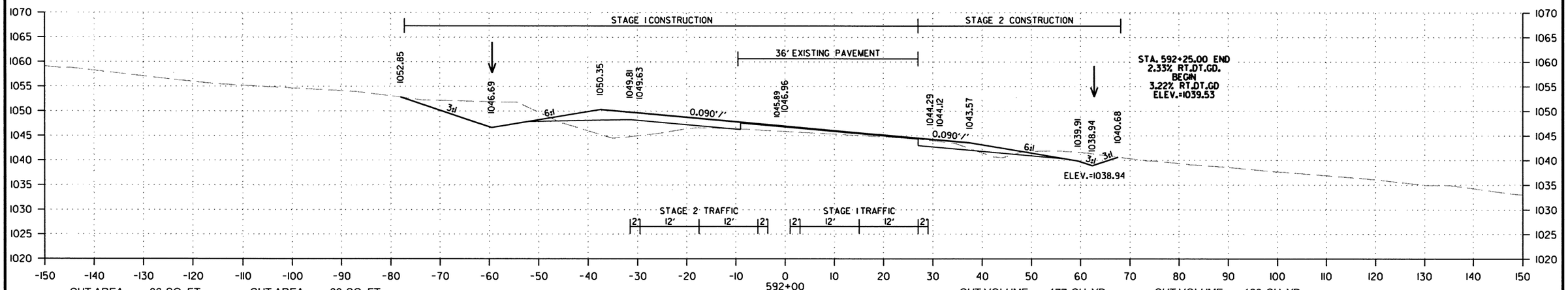
RCA0801.DGN

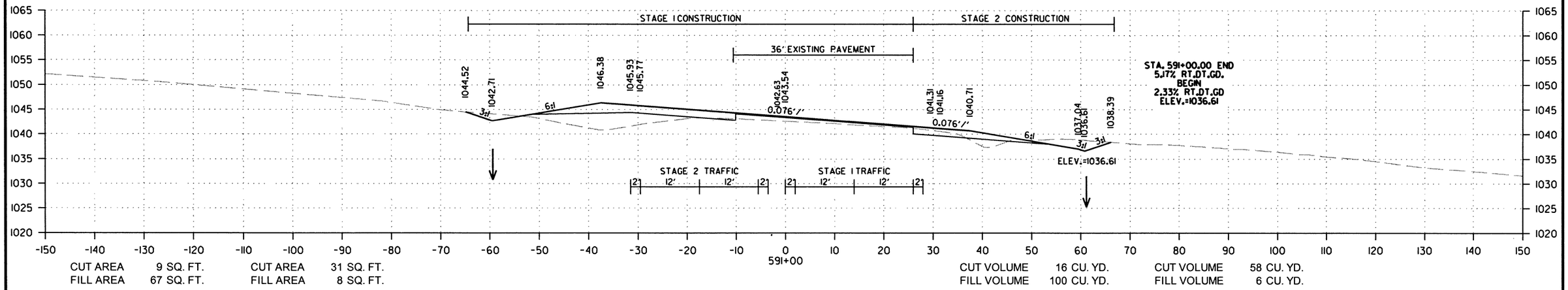
HWY. 65
CROSS SECTION STA. 589+00 TO STA. 590+60

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	337	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





11/13/2018

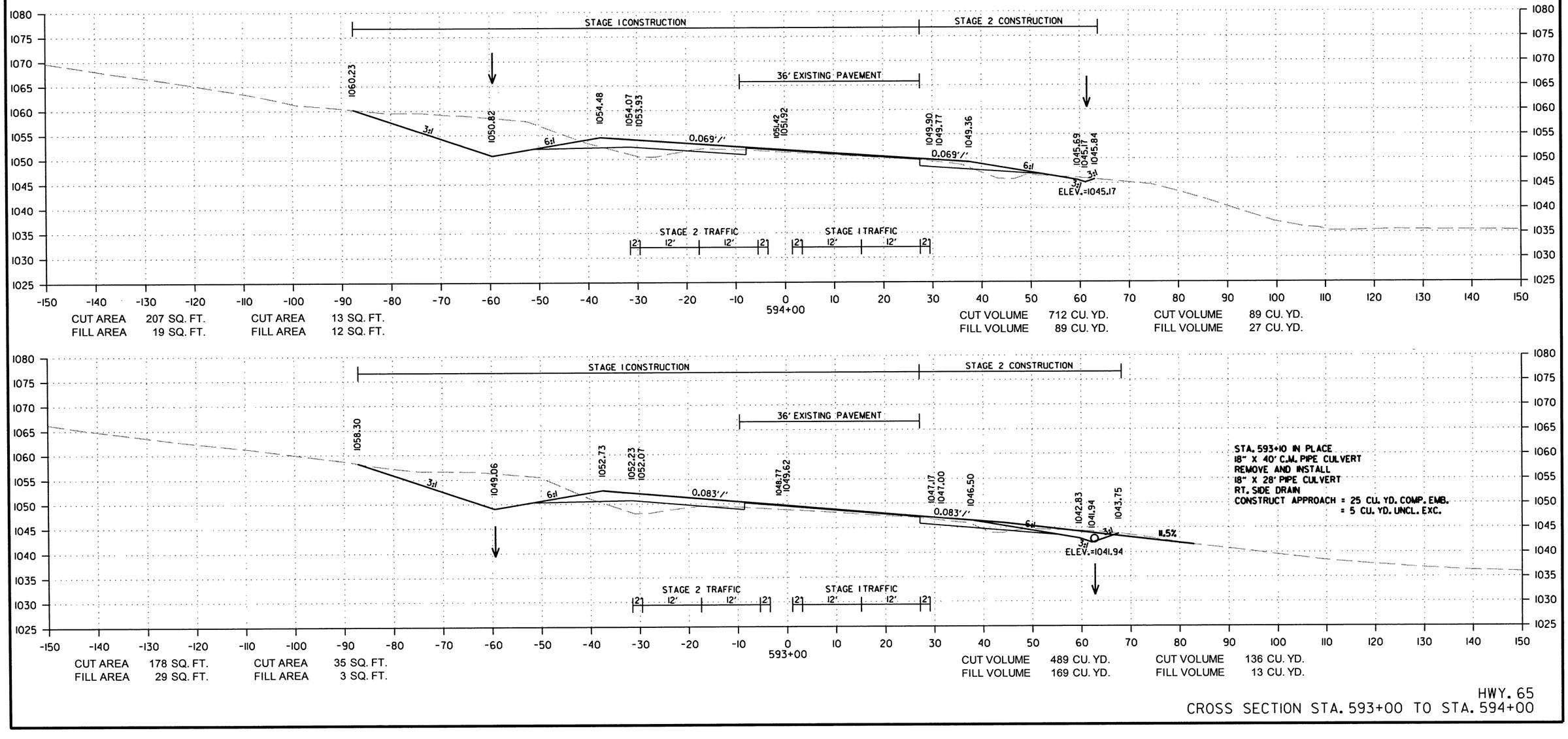
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 591+00 TO STA. 592+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	338	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 593+00 TO STA. 594+00

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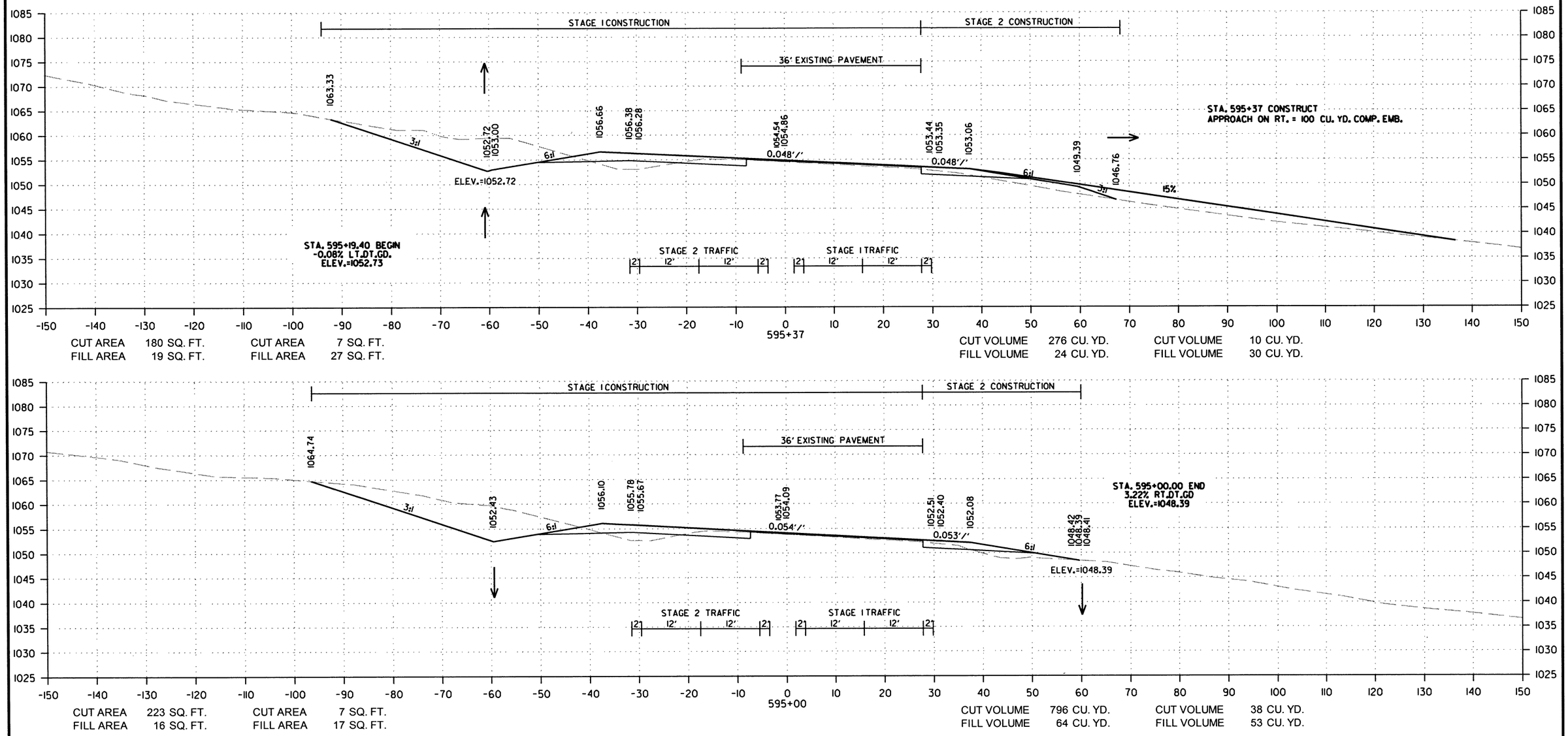
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	339	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



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RCA0801.DGN

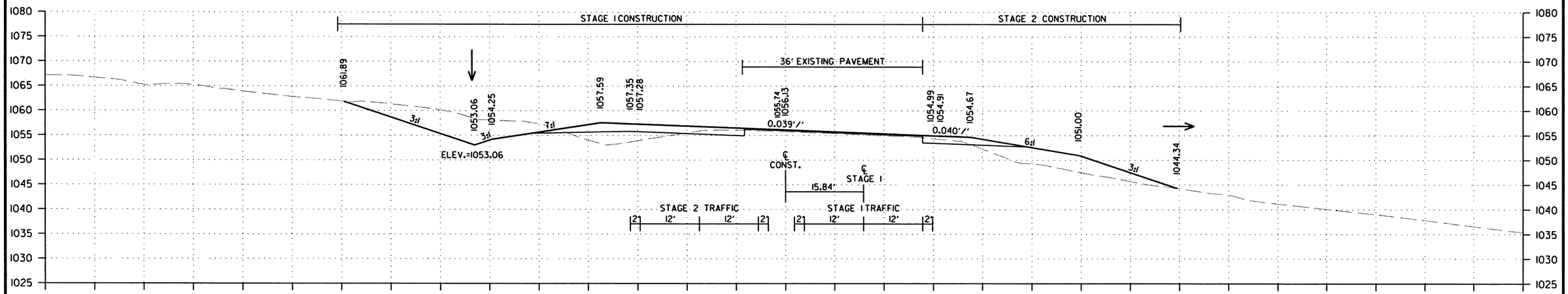
HWY. 65

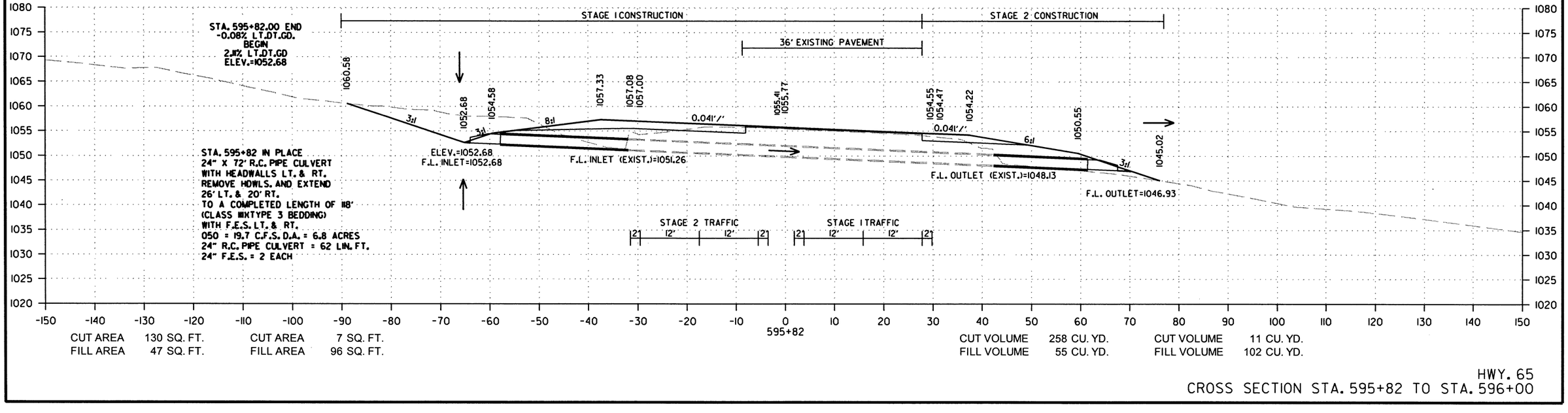
CROSS SECTION STA. 595+00 TO STA. 595+37

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	340	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





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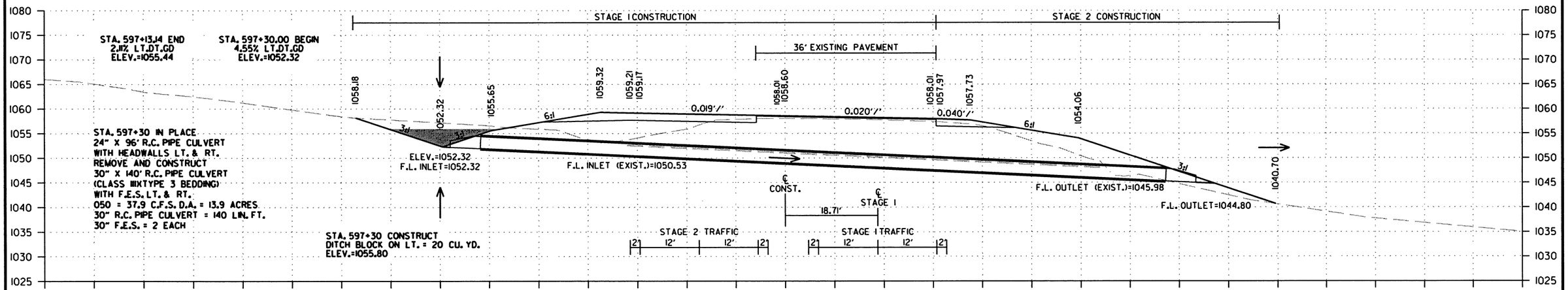
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 595+82 TO STA. 596+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	341	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



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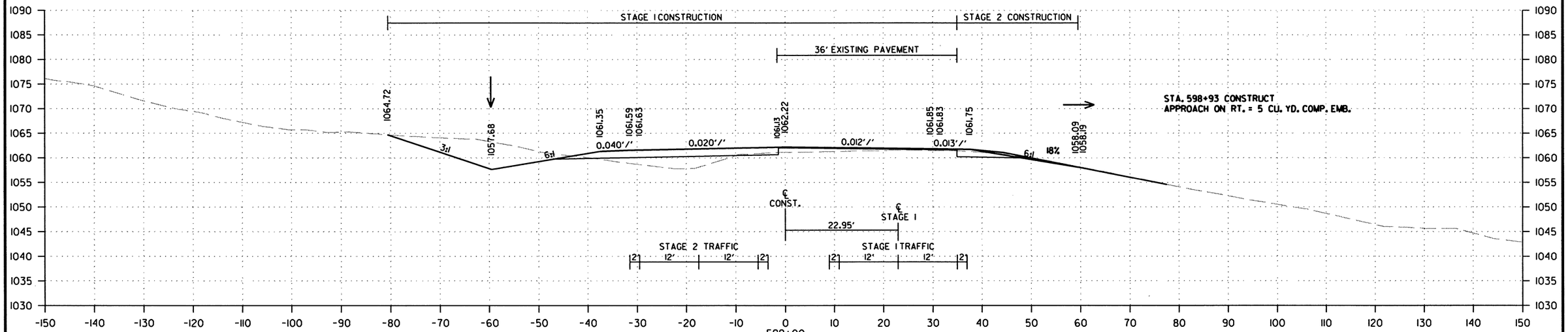
RCA0801.DGN

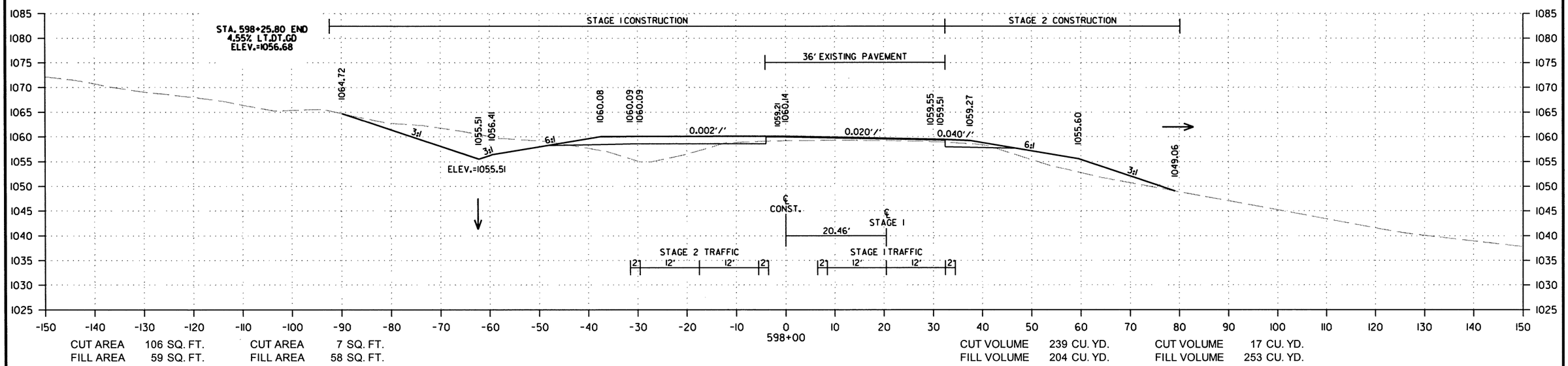
HWY. 65
CROSS SECTION STA. 597+00 TO STA. 597+30

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	342	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





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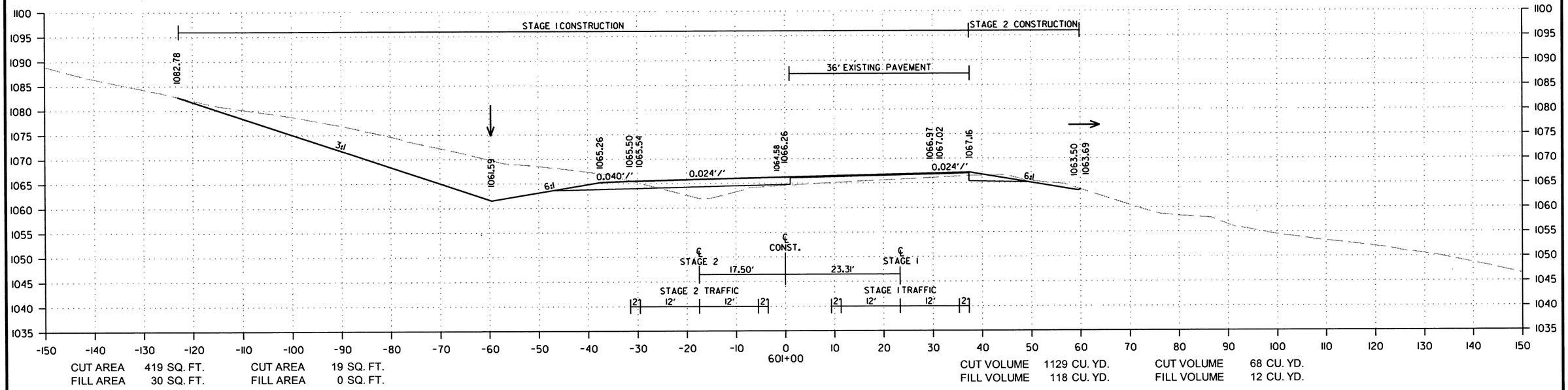
RCA0801.DGN

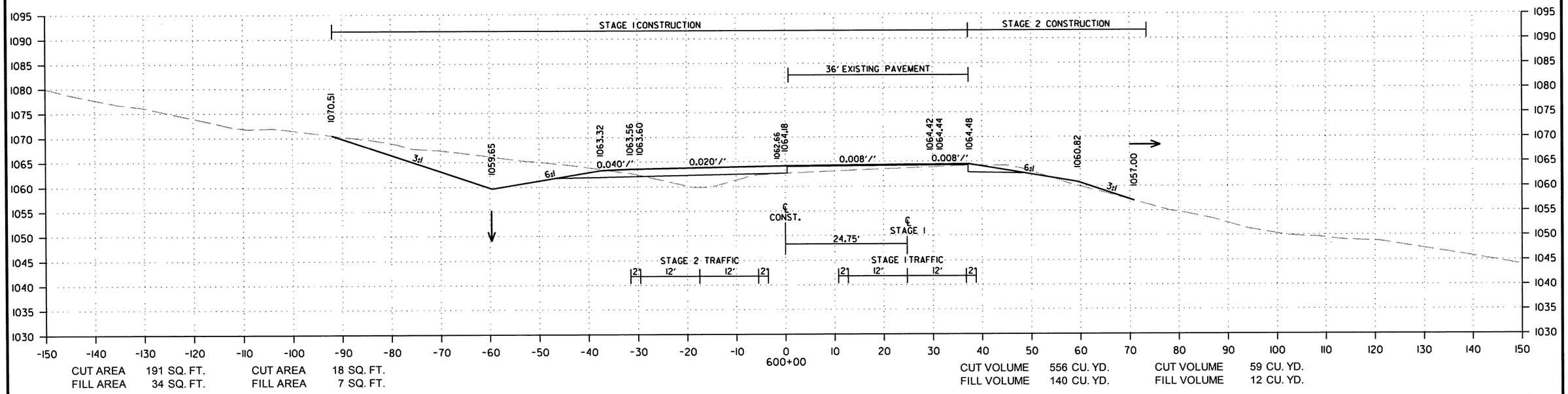
HWY. 65
CROSS SECTION STA. 598+00 TO STA. 599+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	343	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





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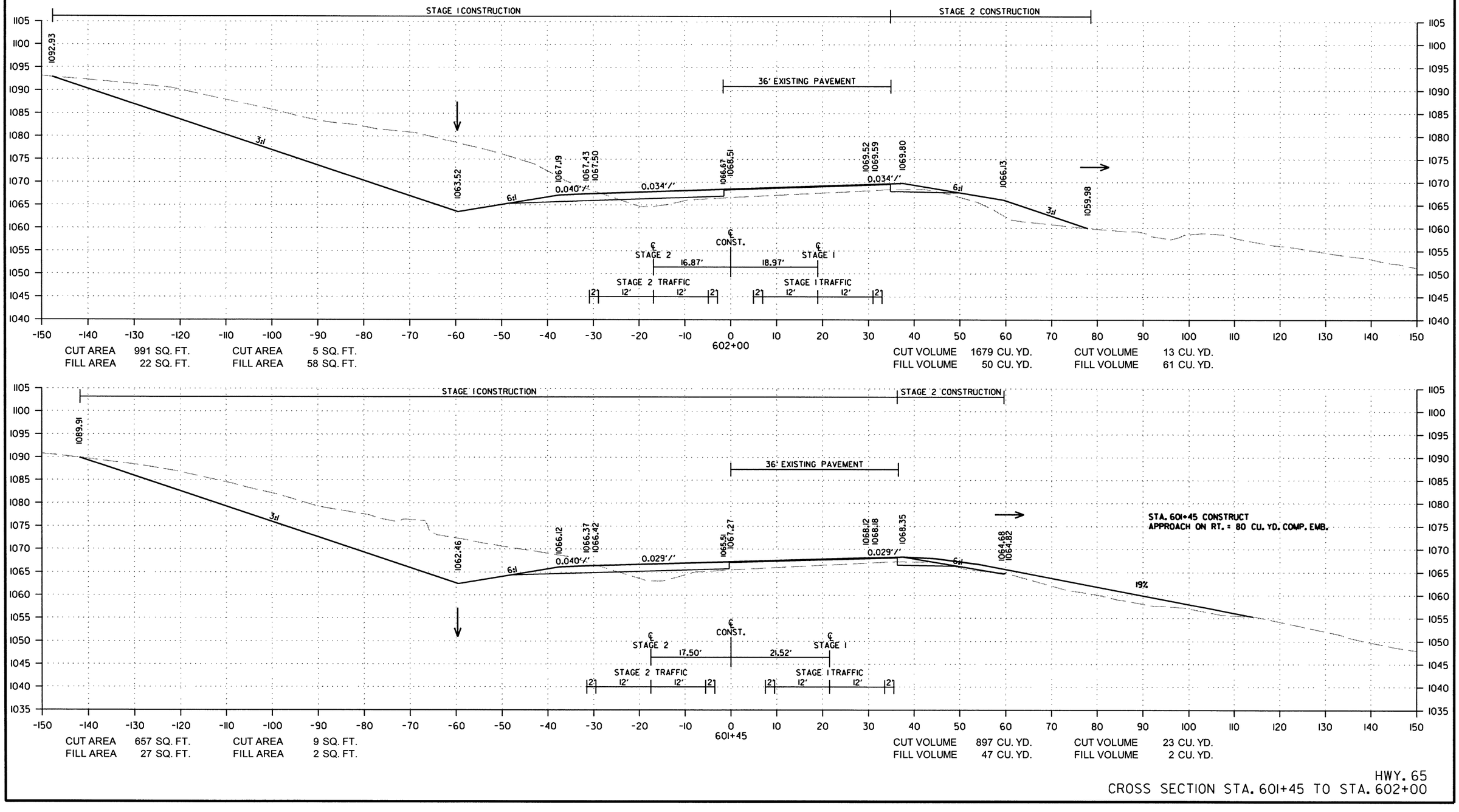
HWY. 65
CROSS SECTION STA. 600+00 TO STA. 601+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	344	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	991 SQ. FT.	CUT AREA	5 SQ. FT.	CUT VOLUME	1679 CU. YD.	CUT VOLUME	13 CU. YD.
FILL AREA	22 SQ. FT.	FILL AREA	58 SQ. FT.	FILL VOLUME	50 CU. YD.	FILL VOLUME	61 CU. YD.

602+00

CUT AREA	657 SQ. FT.	CUT AREA	9 SQ. FT.	CUT VOLUME	897 CU. YD.	CUT VOLUME	23 CU. YD.
FILL AREA	27 SQ. FT.	FILL AREA	2 SQ. FT.	FILL VOLUME	47 CU. YD.	FILL VOLUME	2 CU. YD.

601+45

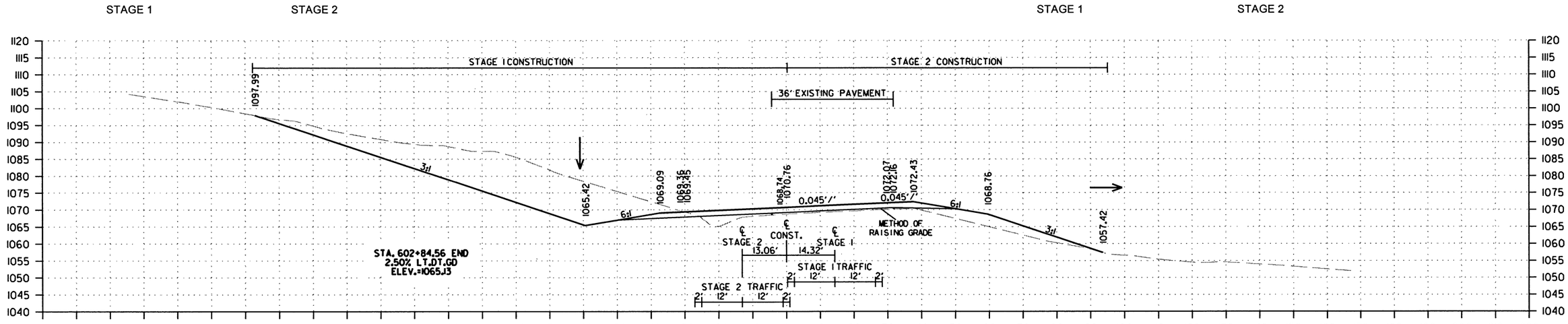
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 601+45 TO STA. 602+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	345	605

(2) CROSS SECTIONS



11/13/2018

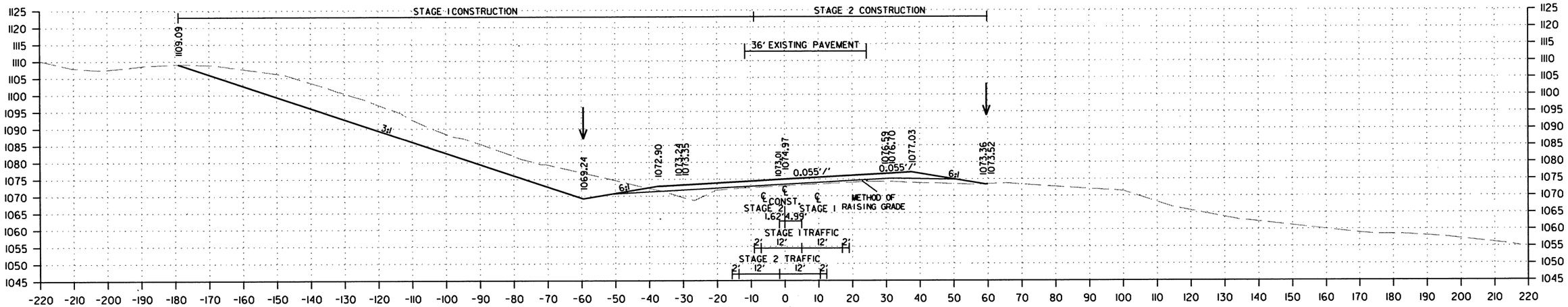
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 602+08 TO STA. 603+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	346	605

(2) CROSS SECTIONS

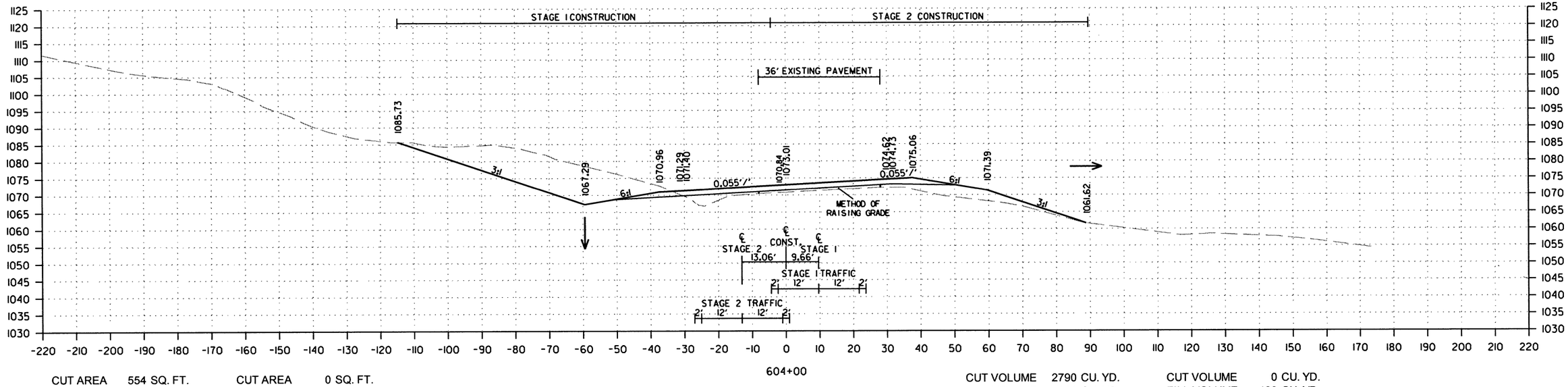
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 803 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 34 SQ. FT. FILL AREA 34 SQ. FT.

605+00

CUT VOLUME 2514 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 125 CU. YD. FILL VOLUME 267 CU. YD.



CUT AREA 554 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 34 SQ. FT. FILL AREA 111 SQ. FT.

604+00

CUT VOLUME 2790 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 121 CU. YD. FILL VOLUME 420 CU. YD.

11/13/2018

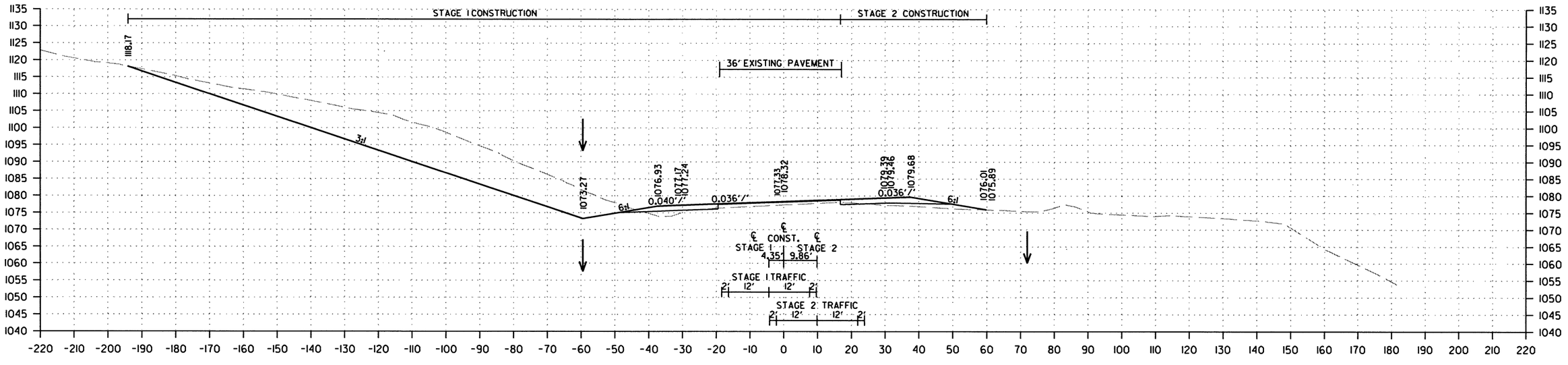
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 604+00 TO STA. 605+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	347	605

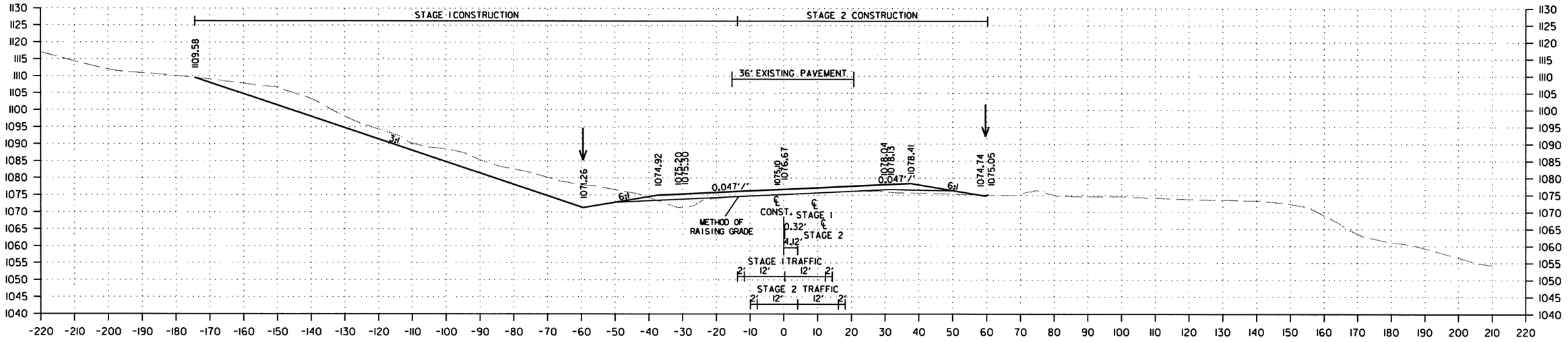
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



607+00

CUT AREA	1116 SQ. FT.	CUT AREA	3 SQ. FT.
FILL AREA	14 SQ. FT.	FILL AREA	29 SQ. FT.
CUT VOLUME	3022 CU. YD.	CUT VOLUME	6 CU. YD.
FILL VOLUME	71 CU. YD.	FILL VOLUME	98 CU. YD.



606+00

CUT AREA	516 SQ. FT.	CUT AREA	1 SQ. FT.
FILL AREA	24 SQ. FT.	FILL AREA	24 SQ. FT.
CUT VOLUME	2443 CU. YD.	CUT VOLUME	1 CU. YD.
FILL VOLUME	107 CU. YD.	FILL VOLUME	107 CU. YD.

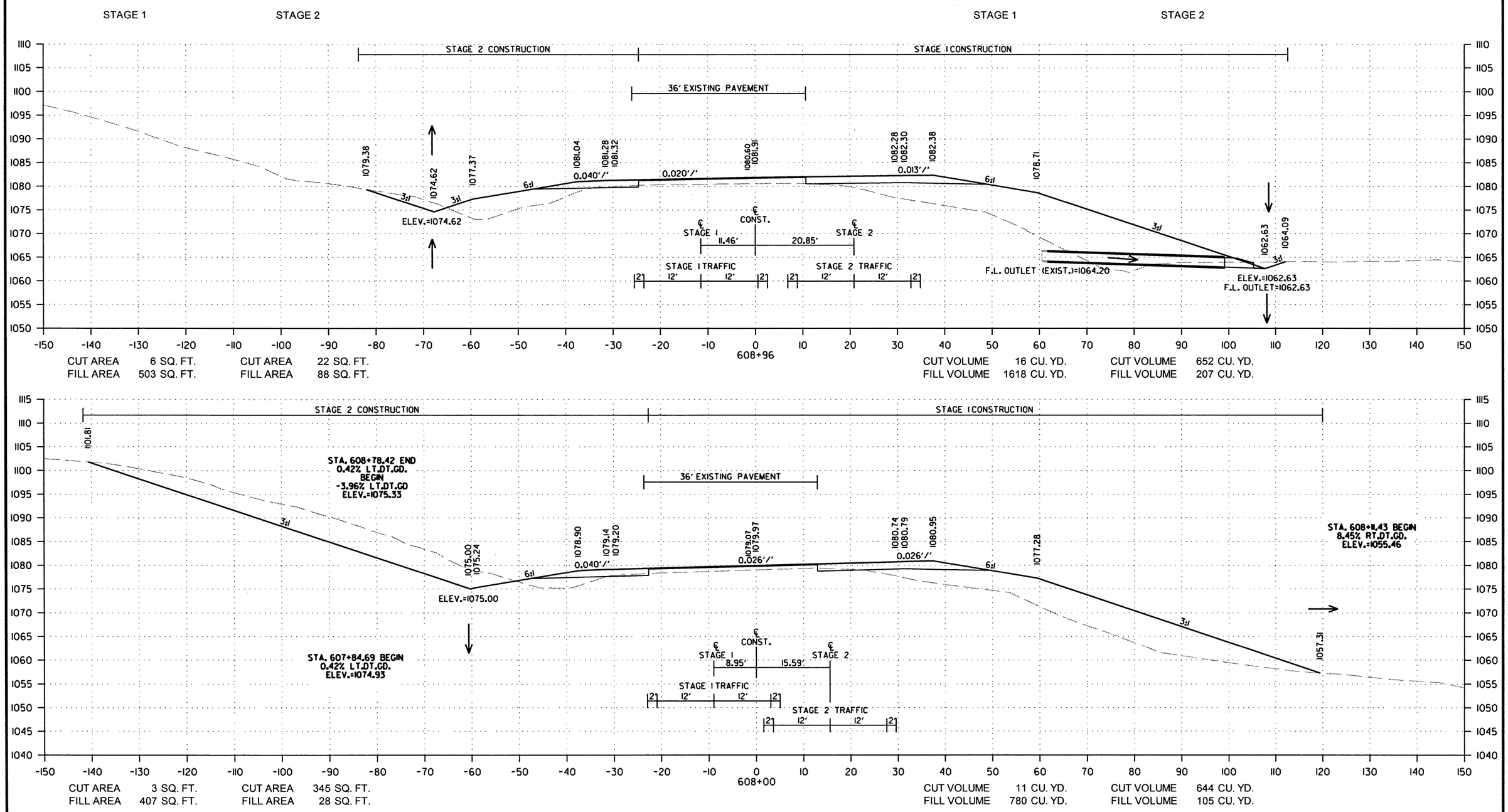
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 606+00 TO STA. 607+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	348	605

(2) CROSS SECTIONS



11/13/2018

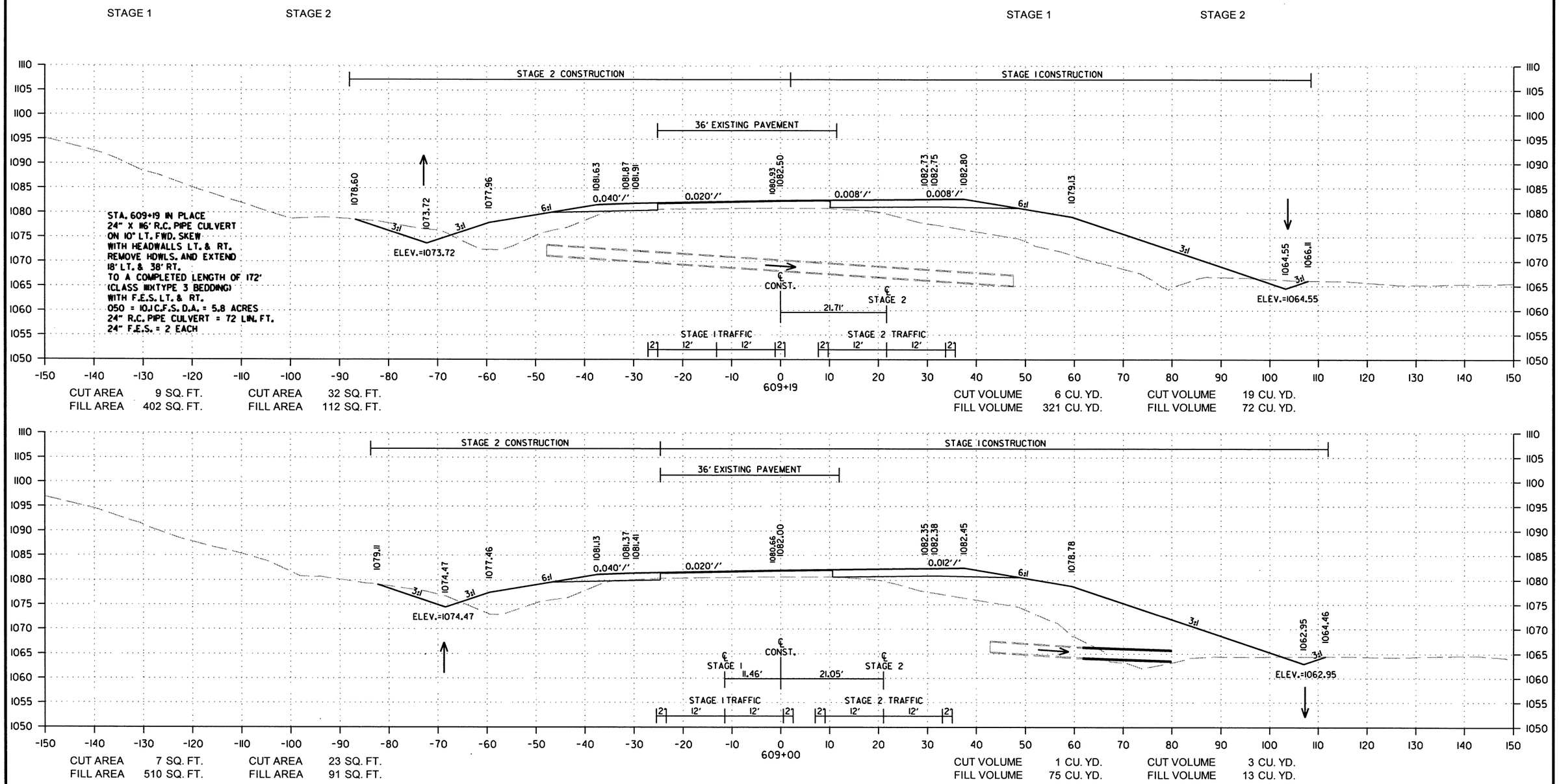
RCA0801.DGN

HWY. 65

CROSS SECTION STA. 608+00 TO STA. 608+96

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	349	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 609+00 TO STA. 609+19

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	350	605

(2) CROSS SECTIONS

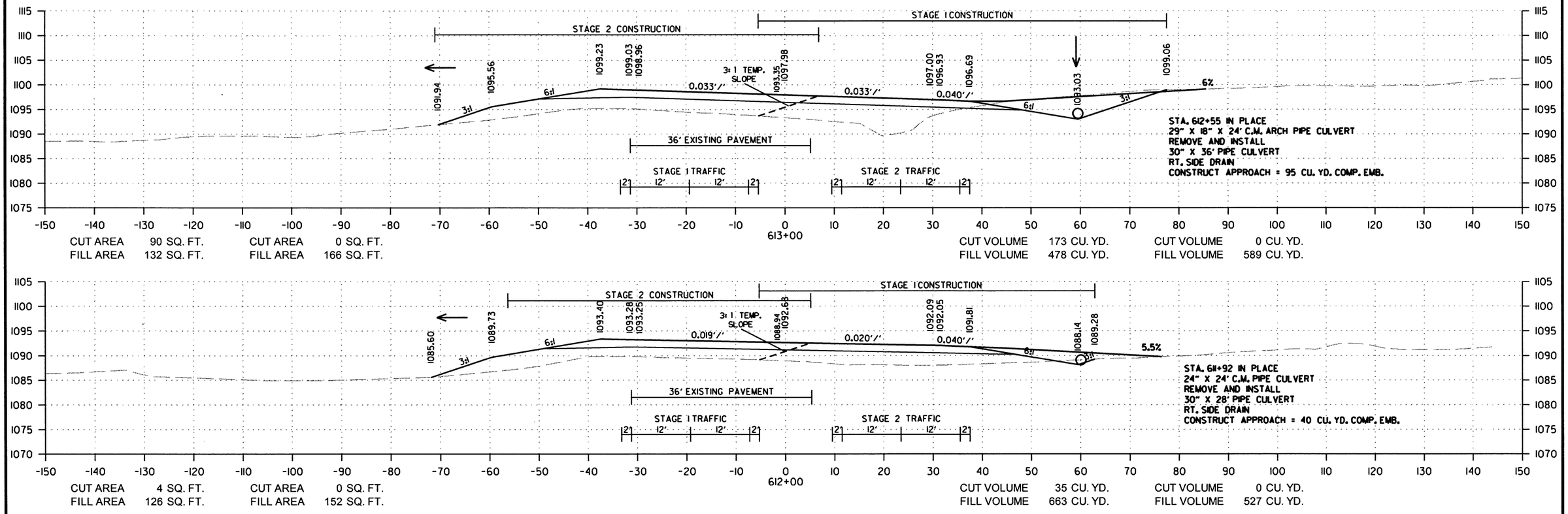
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 609+34.92 TO STA. 610+38

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	351	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 611+00 TO STA. 613+00

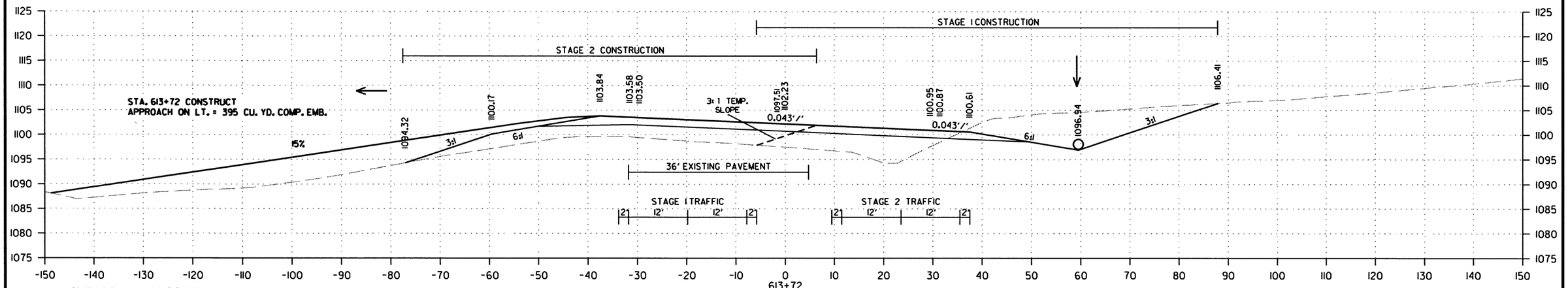
11/13/2018

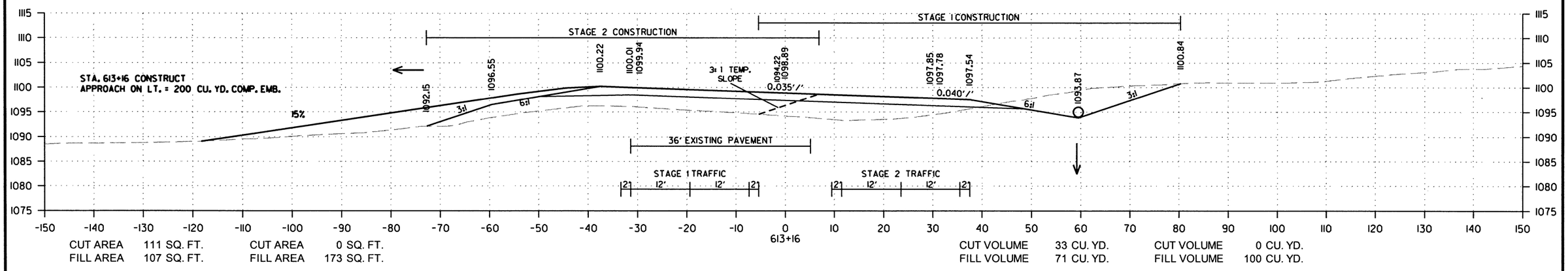
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	352	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





HWY. 65
CROSS SECTION STA. 613+16 TO STA. 613+72

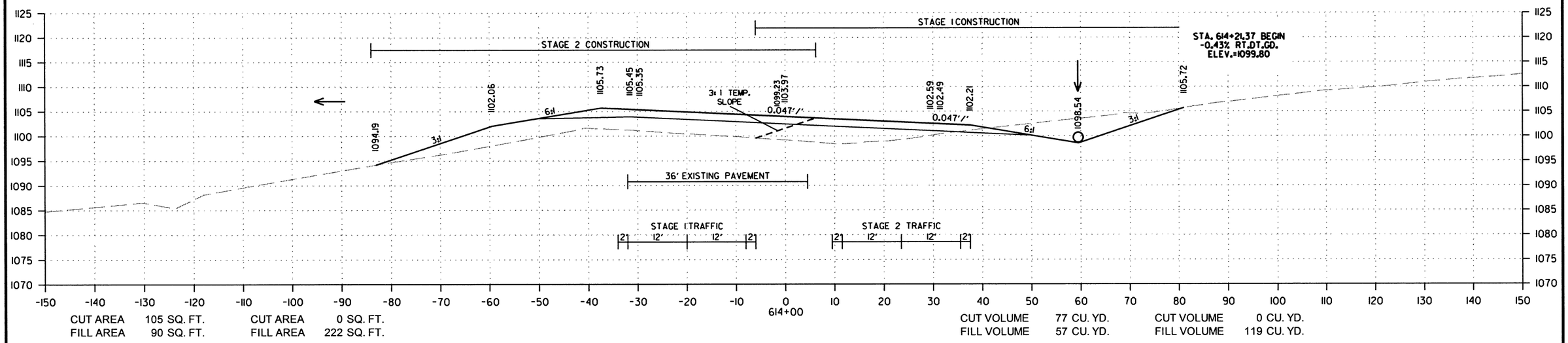
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	353	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

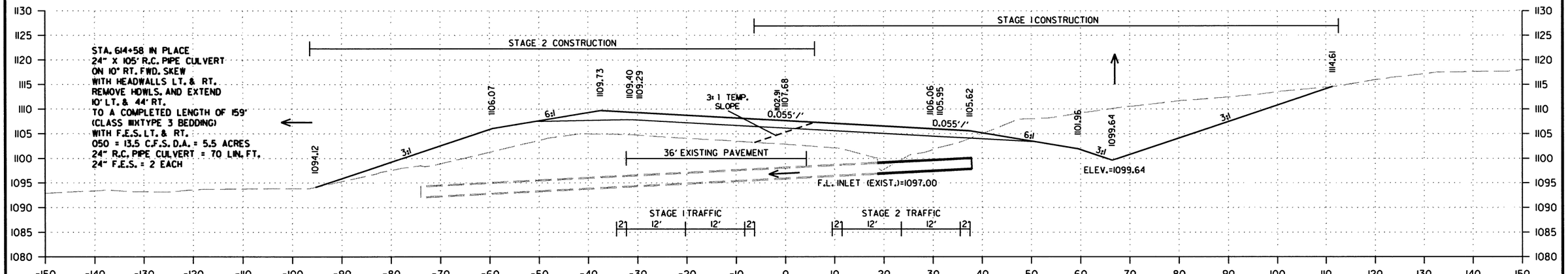
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 613+85 TO STA. 614+00

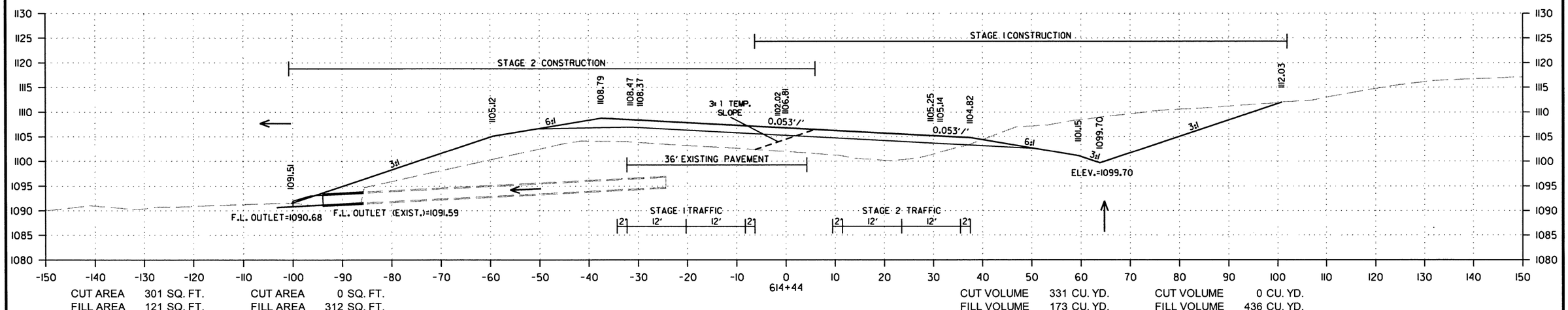
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	354	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	387 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	144 SQ. FT.	FILL AREA	272 SQ. FT.
CUT VOLUME	178 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	69 CU. YD.	FILL VOLUME	152 CU. YD.



CUT AREA	301 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	121 SQ. FT.	FILL AREA	312 SQ. FT.
CUT VOLUME	331 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	173 CU. YD.	FILL VOLUME	436 CU. YD.

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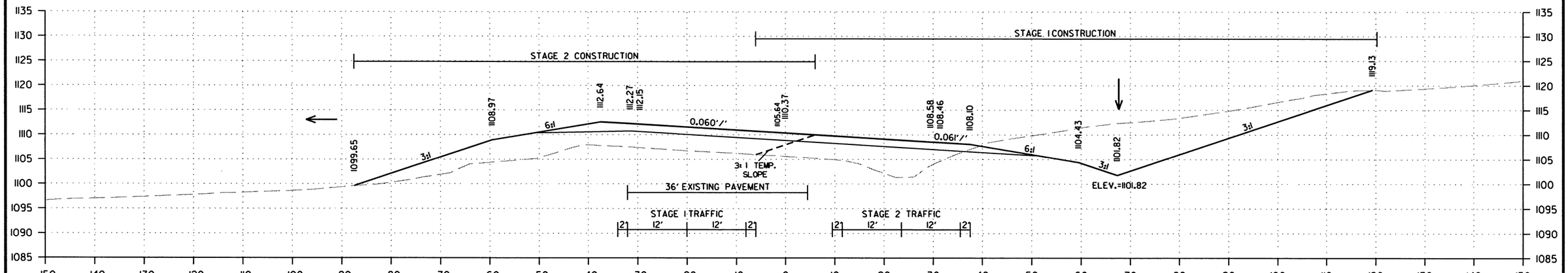
RCA0801.DGN

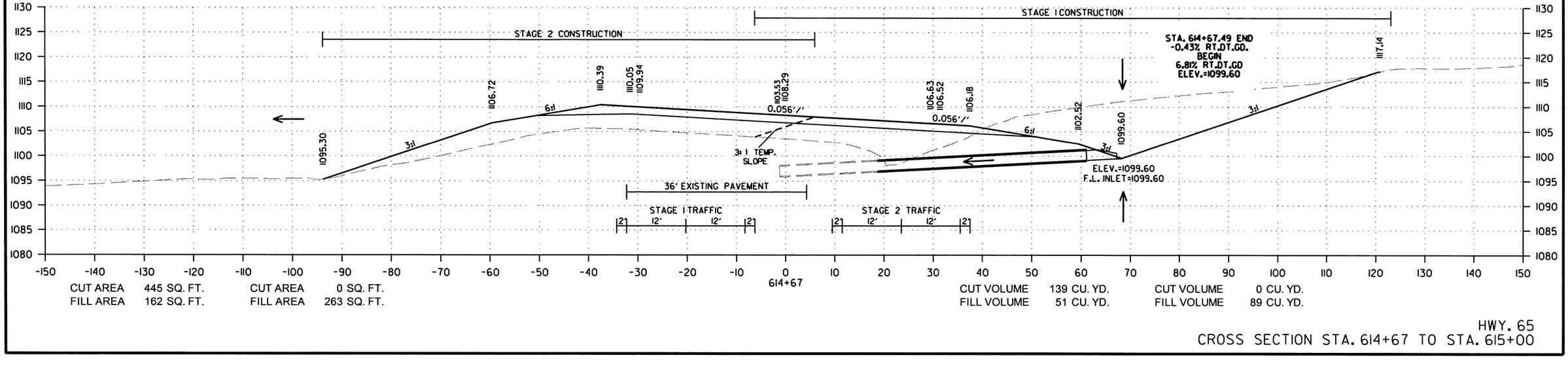
HWY. 65
CROSS SECTION STA. 614+44 TO STA. 614+58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	355	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





11/13/2018

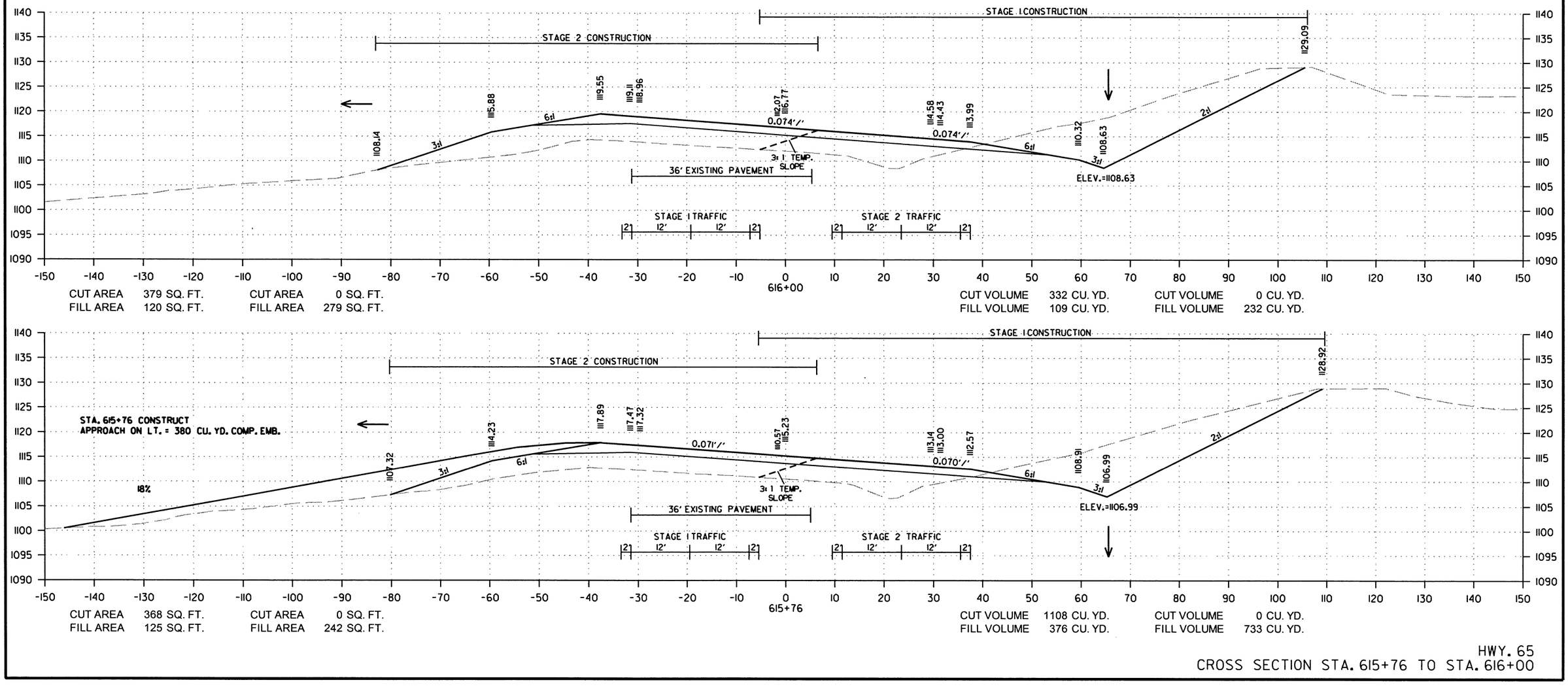
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 614+67 TO STA. 615+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	356	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	379 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	120 SQ. FT.	FILL AREA	279 SQ. FT.
CUT VOLUME	332 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	109 CU. YD.	FILL VOLUME	232 CU. YD.

CUT AREA	368 SQ. FT.	CUT AREA	0 SQ. FT.
FILL AREA	125 SQ. FT.	FILL AREA	242 SQ. FT.
CUT VOLUME	1108 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	376 CU. YD.	FILL VOLUME	733 CU. YD.

HWY. 65
CROSS SECTION STA. 615+76 TO STA. 616+00

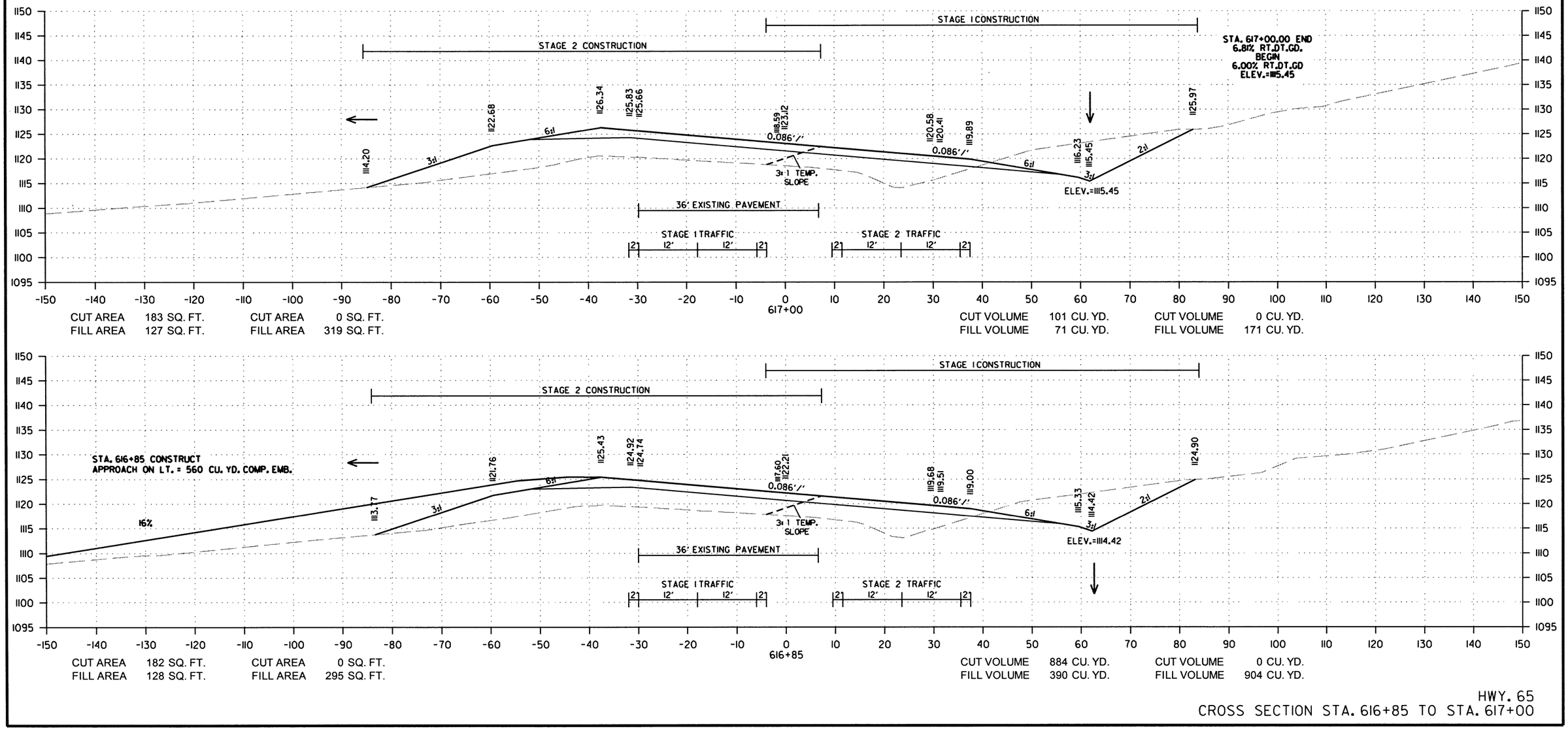
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	357	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



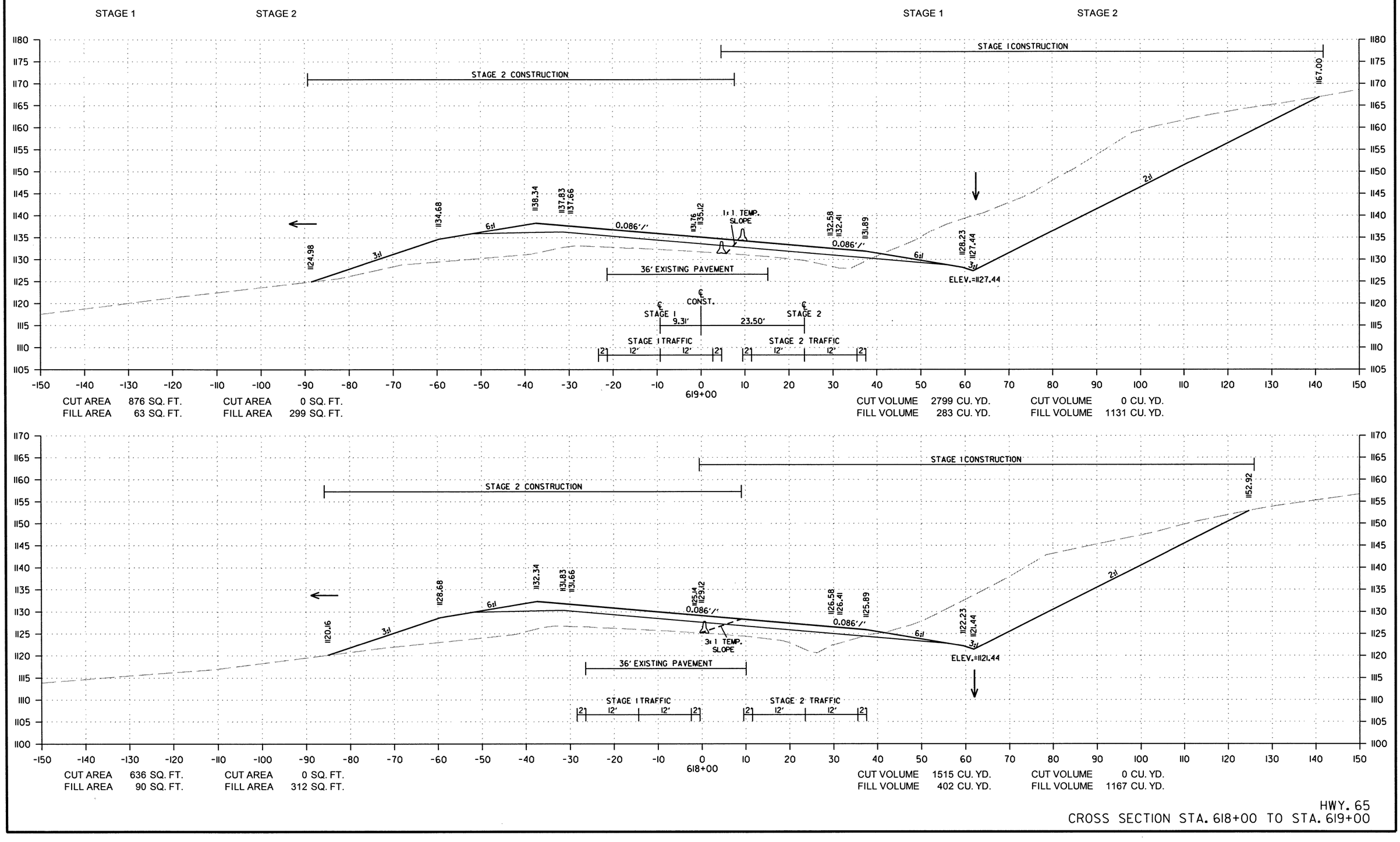
HWY. 65
CROSS SECTION STA. 616+85 TO STA. 617+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	358	605

(2) CROSS SECTIONS



11/13/2018

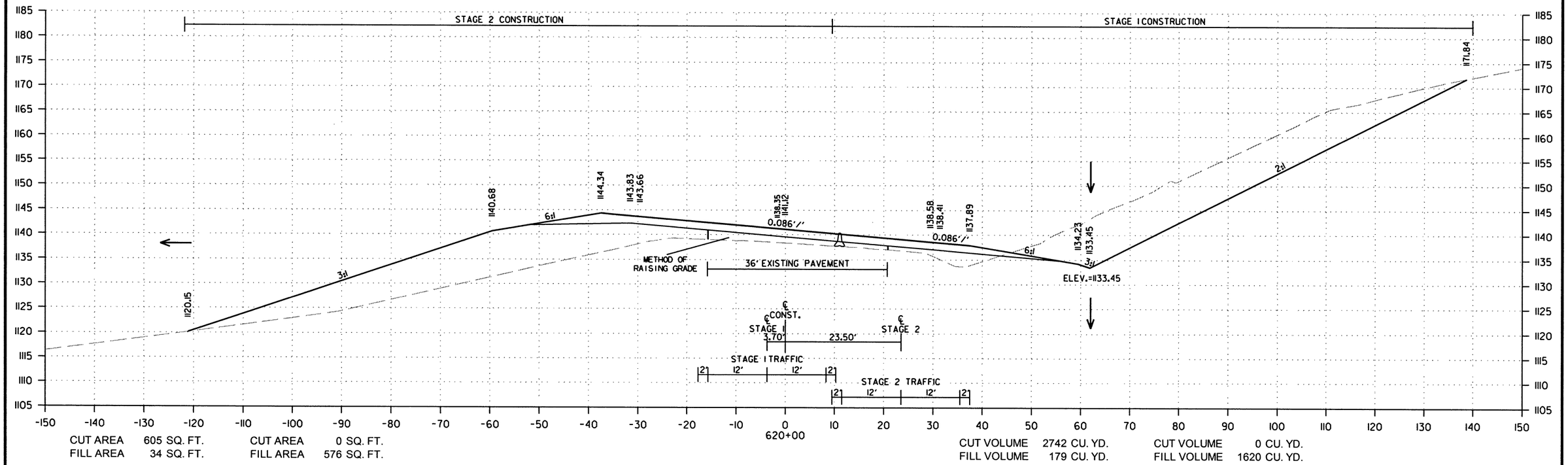
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 618+00 TO STA. 619+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	359	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 605 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 34 SQ. FT. FILL AREA 576 SQ. FT.

CUT VOLUME 2742 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 179 CU. YD. FILL VOLUME 1620 CU. YD.

HWY. 65
CROSS SECTION STA. 620+00 TO STA. 620+00

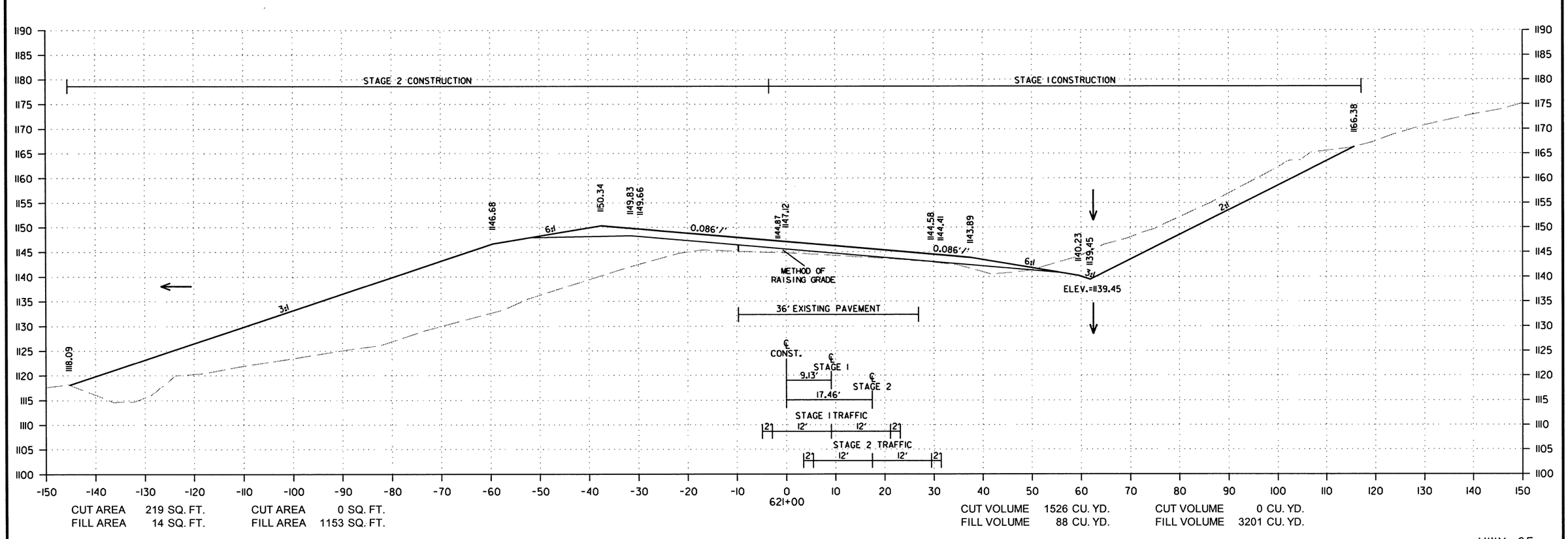
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	360	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 219 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 14 SQ. FT. FILL AREA 1153 SQ. FT.

CUT VOLUME 1526 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 88 CU. YD. FILL VOLUME 3201 CU. YD.

HWY. 65
CROSS SECTION STA. 621+00 TO STA. 621+00

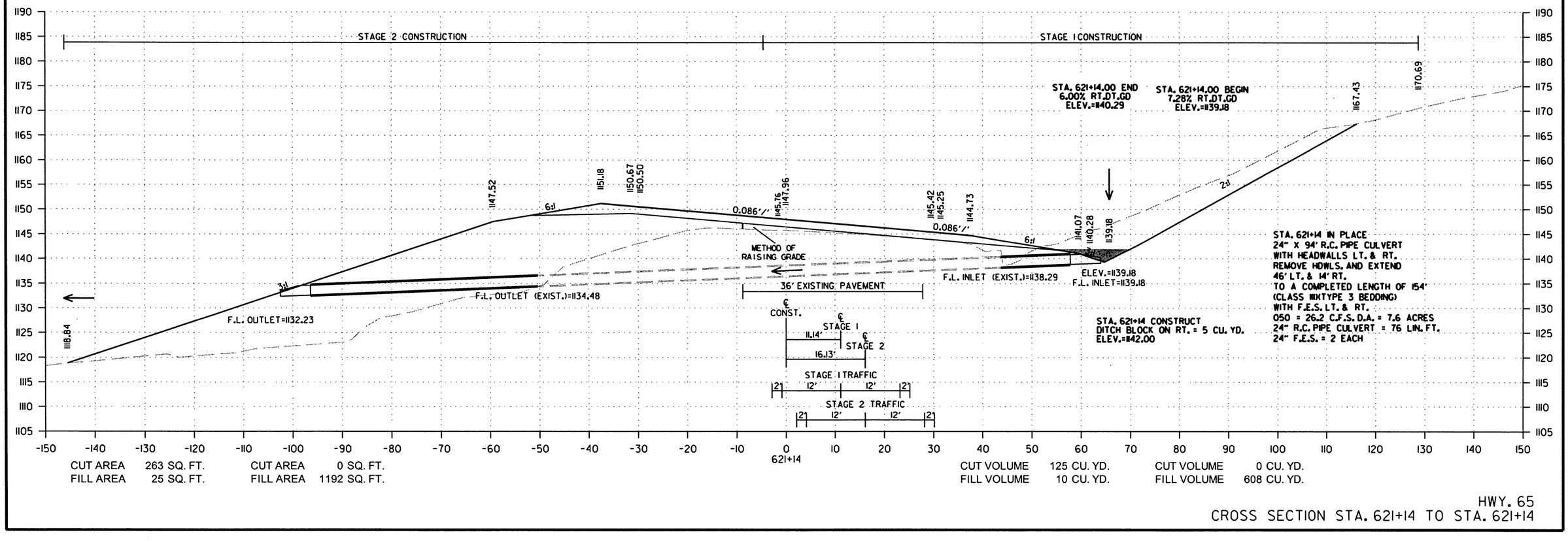
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	361	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 263 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 25 SQ. FT. FILL AREA 1192 SQ. FT.

CUT VOLUME 125 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 608 CU. YD.

HWY. 65
CROSS SECTION STA. 621+14 TO STA. 621+14

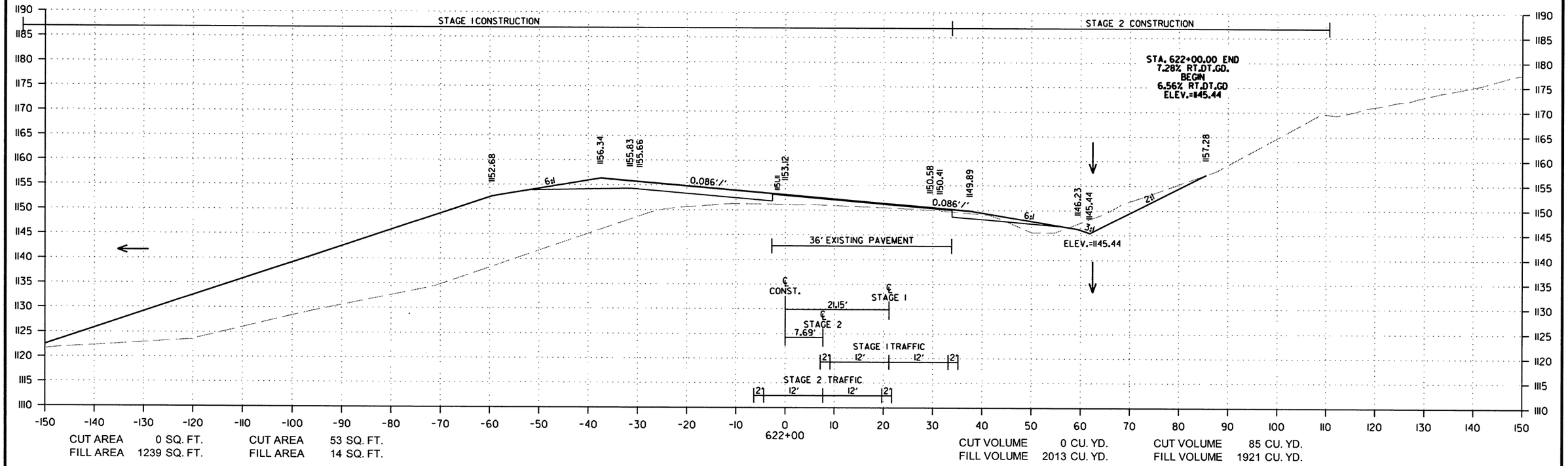
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	362	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CROSS SECTION STA. 622+00 TO STA. 622+00

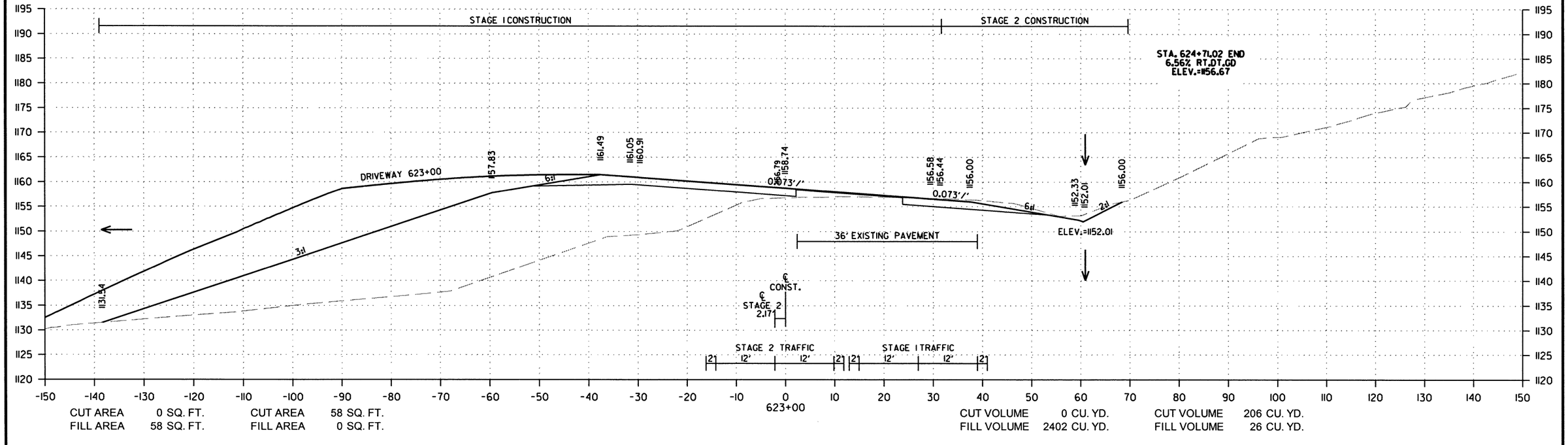
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	363	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 0 SQ. FT. CUT AREA 58 SQ. FT.
FILL AREA 58 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 206 CU. YD.
FILL VOLUME 2402 CU. YD. FILL VOLUME 26 CU. YD.

CROSS SECTION STA. 623+00 TO STA. 623+00

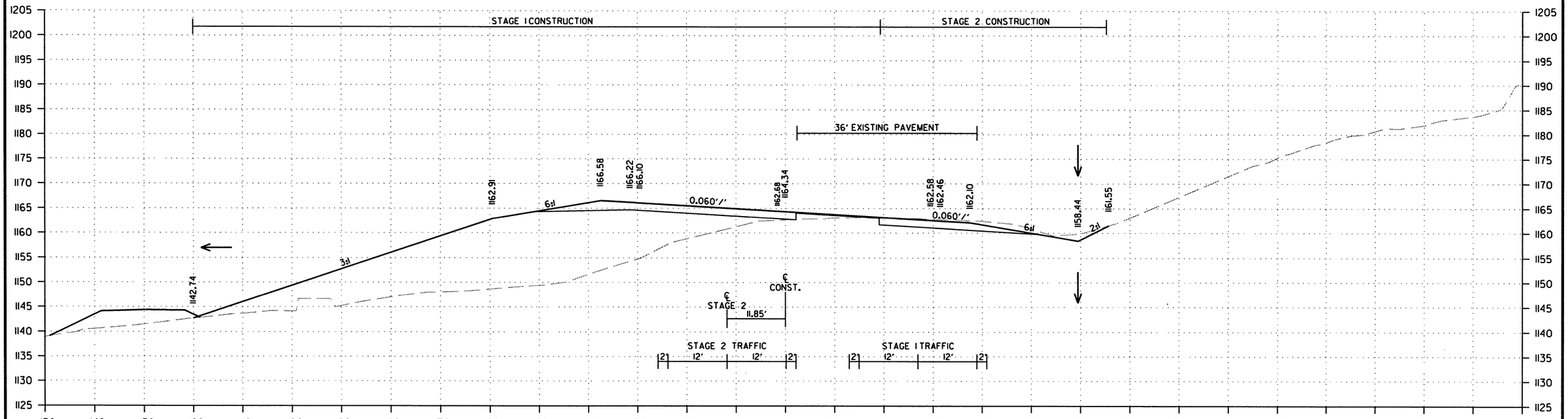
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	364	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



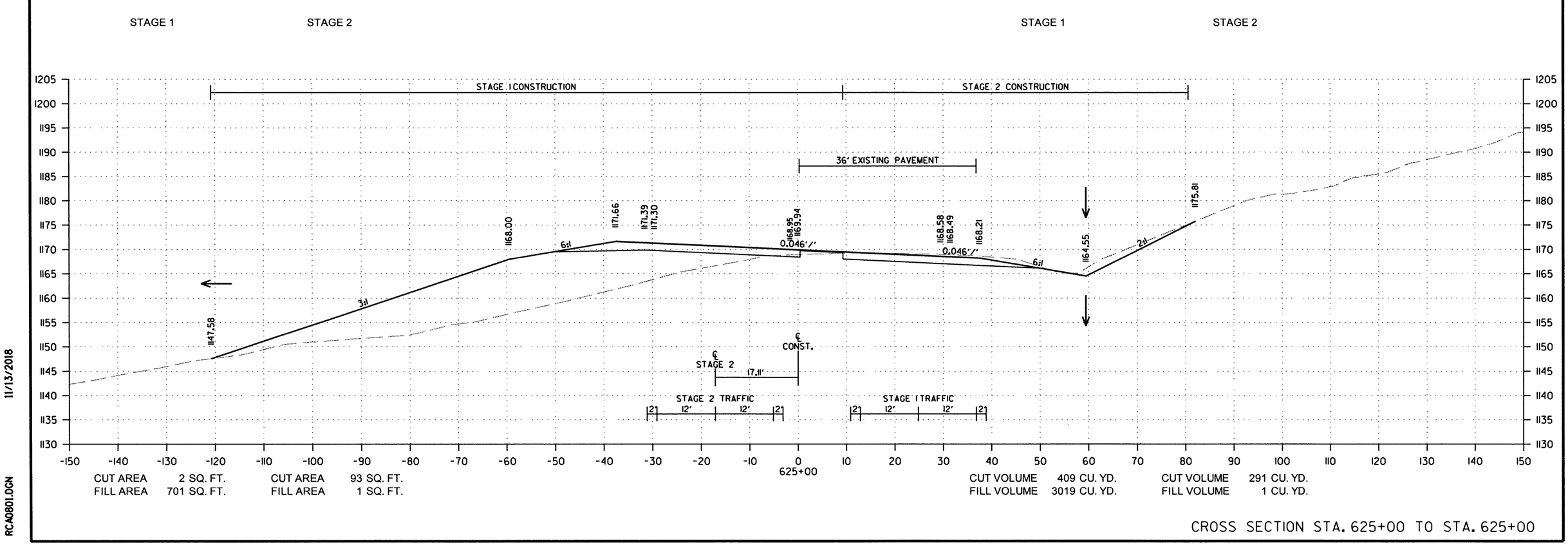
CROSS SECTION STA. 624+00 TO STA. 624+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	365	605

(2) CROSS SECTIONS



CUT AREA 2 SQ. FT. CUT AREA 93 SQ. FT.
FILL AREA 701 SQ. FT. FILL AREA 1 SQ. FT.

CUT VOLUME 409 CU. YD. CUT VOLUME 291 CU. YD.
FILL VOLUME 3019 CU. YD. FILL VOLUME 1 CU. YD.

CROSS SECTION STA. 625+00 TO STA. 625+00

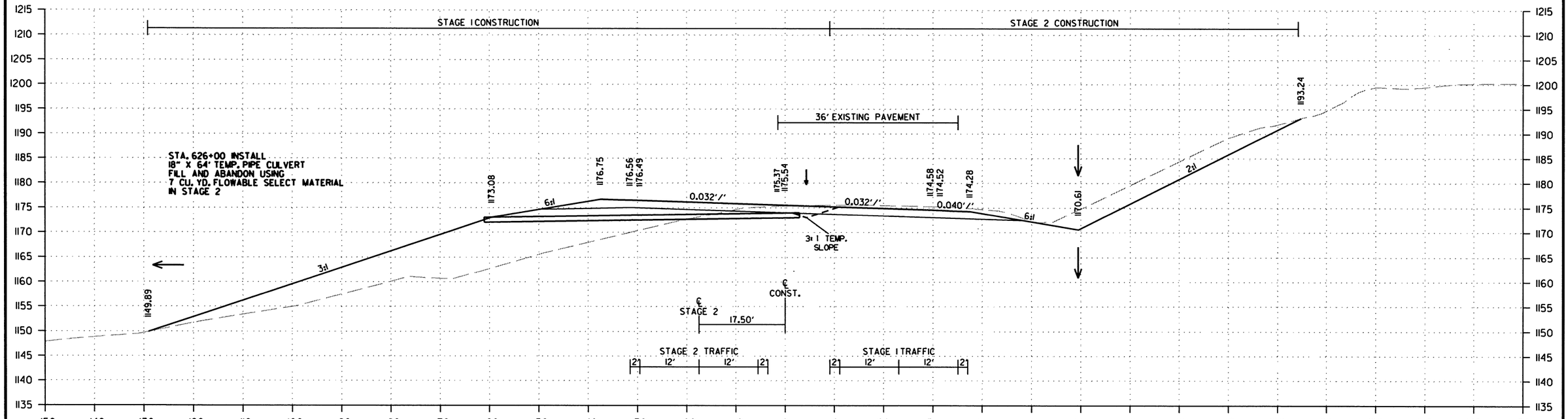
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	366	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 24 SQ. FT. CUT AREA 229 SQ. FT.
FILL AREA 617 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 820 CU. YD. CUT VOLUME 596 CU. YD.
FILL VOLUME 2440 CU. YD. FILL VOLUME 1 CU. YD.

CROSS SECTION STA. 626+00 TO STA. 626+00

11/13/2018

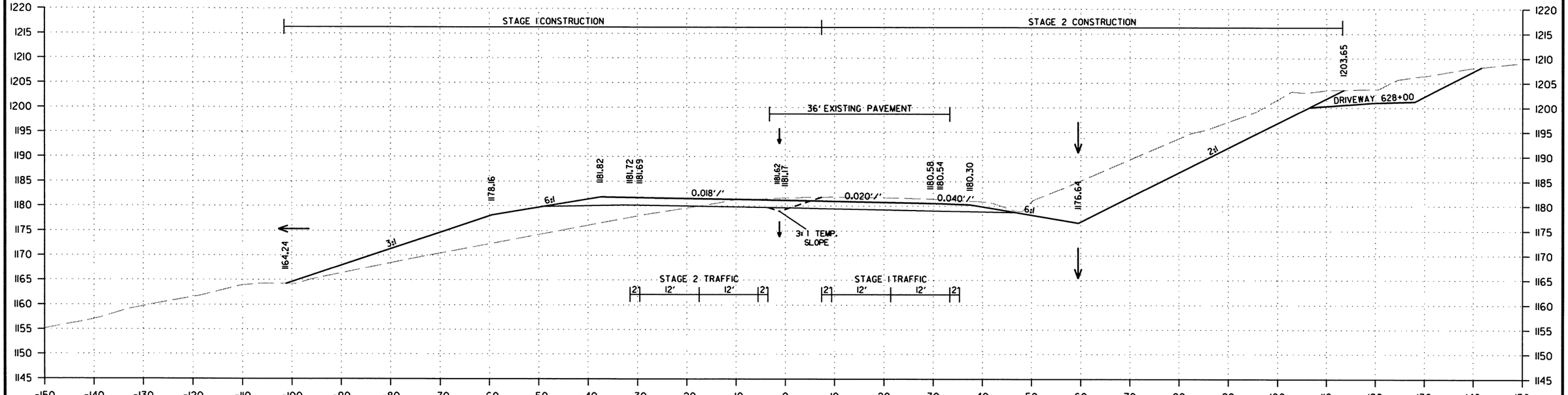
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	367	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 38 SQ. FT. CUT AREA 446 SQ. FT.
FILL AREA 266 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 115 CU. YD. CUT VOLUME 1250 CU. YD.
FILL VOLUME 1634 CU. YD. FILL VOLUME 0 CU. YD.

CROSS SECTION STA. 627+00 TO STA. 627+00

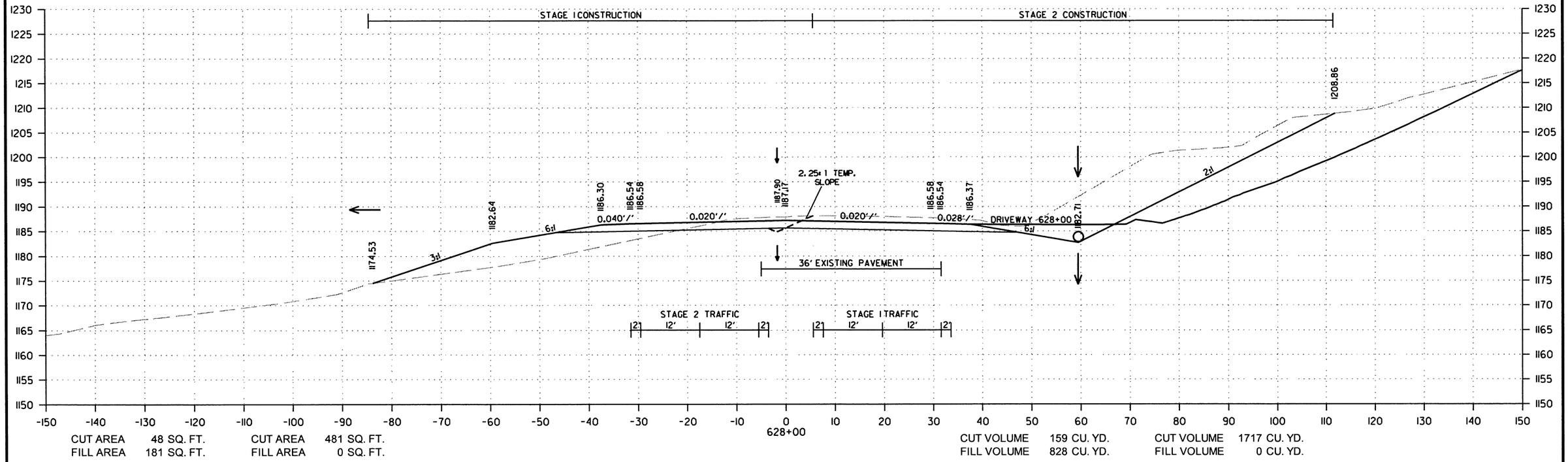
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	368	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



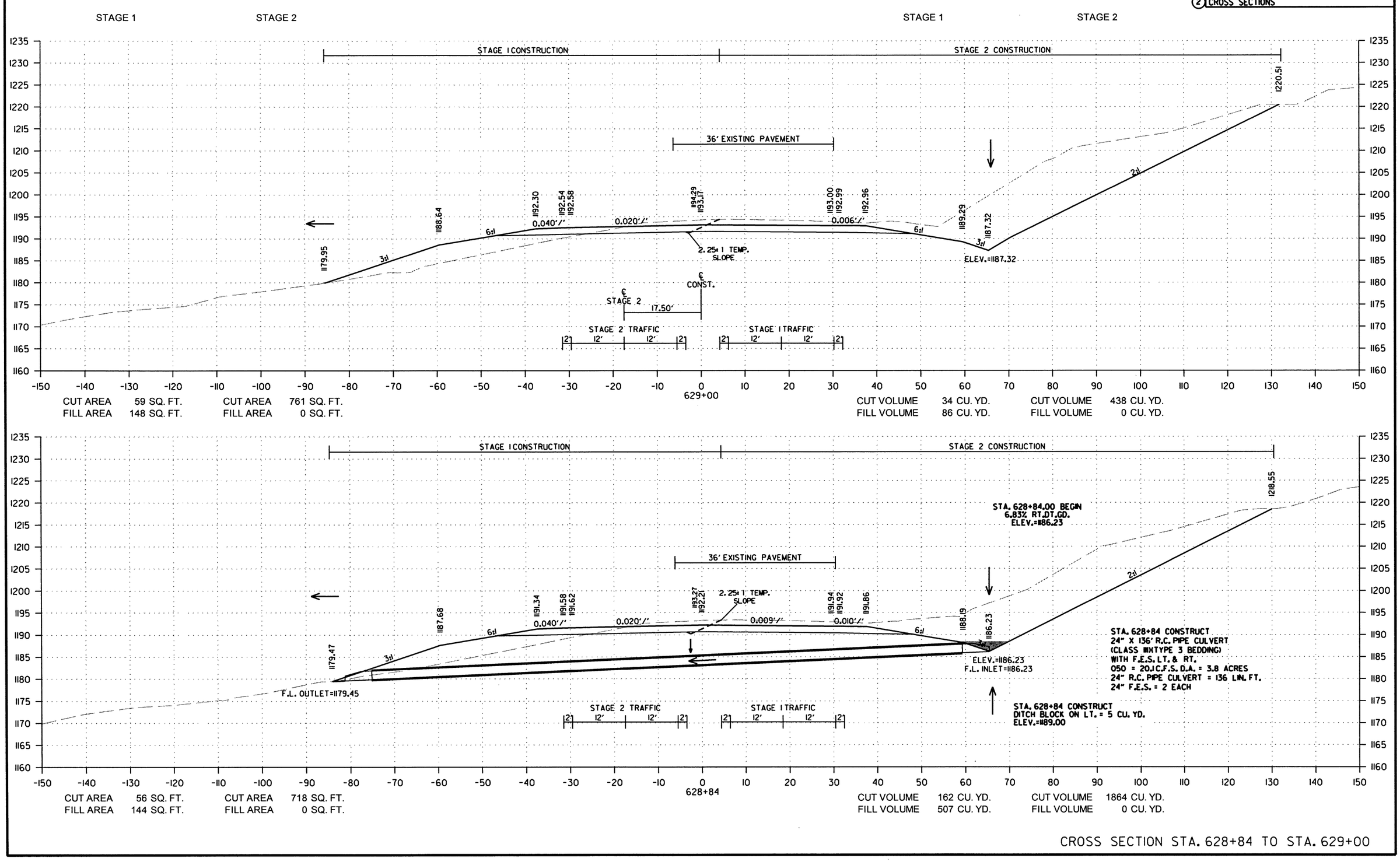
CROSS SECTION STA. 628+00 TO STA. 628+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	369	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

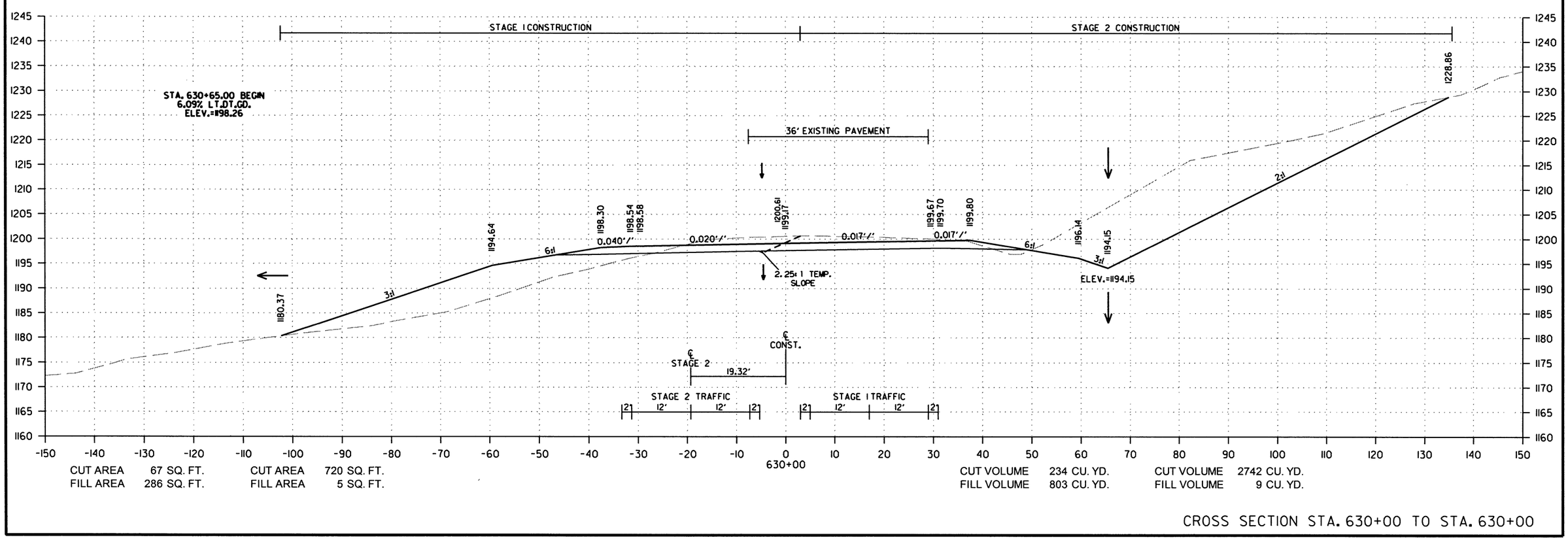
CROSS SECTION STA. 628+84 TO STA. 629+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	370	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



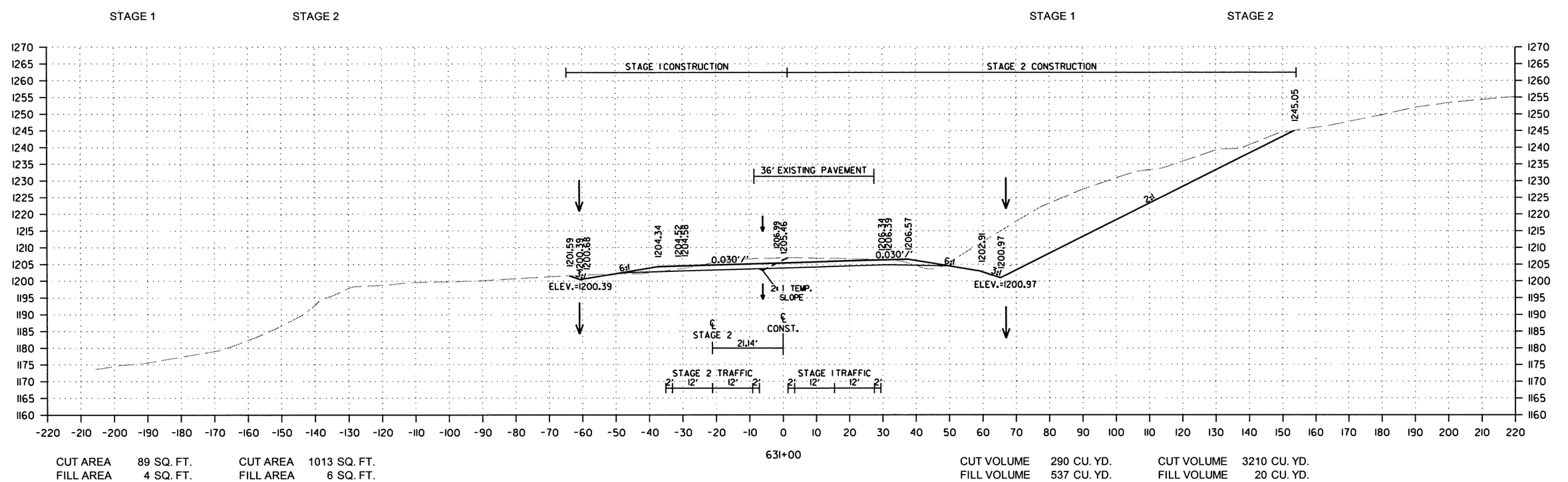
CROSS SECTION STA. 630+00 TO STA. 630+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	371	605

(2) CROSS SECTIONS



CUT AREA	89 SQ. FT.	CUT AREA	1013 SQ. FT.	CUT VOLUME	290 CU. YD.
FILL AREA	4 SQ. FT.	FILL AREA	6 SQ. FT.	FILL VOLUME	537 CU. YD.

CUT VOLUME	3210 CU. YD.		
FILL VOLUME	20 CU. YD.		

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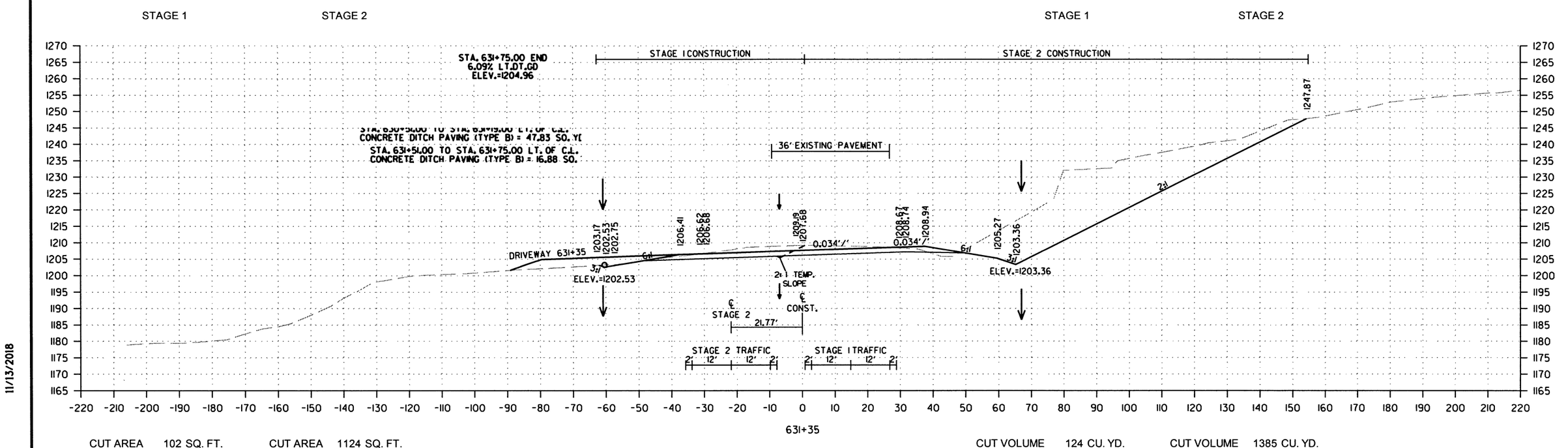
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 631+00 TO STA. 631+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	372	605

(2) CROSS SECTIONS



CUT AREA	102 SQ. FT.	CUT AREA	1124 SQ. FT.	CUT VOLUME	124 CU. YD.
FILL AREA	0 SQ. FT.	FILL AREA	8 SQ. FT.	FILL VOLUME	3 CU. YD.
				CUT VOLUME	1385 CU. YD.
				FILL VOLUME	9 CU. YD.

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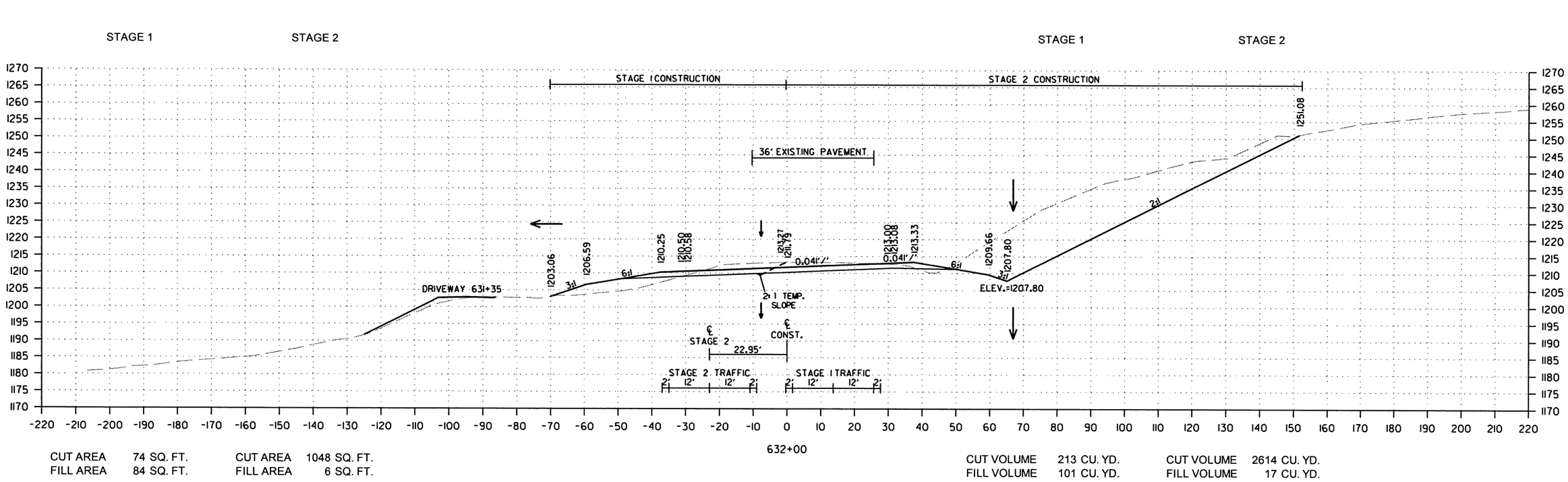
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 631+35 TO STA. 631+35

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	373	605

(2) CROSS SECTIONS



CUT AREA	74 SQ. FT.	CUT AREA	1048 SQ. FT.	CUT VOLUME	213 CU. YD.
FILL AREA	84 SQ. FT.	FILL AREA	6 SQ. FT.	FILL VOLUME	101 CU. YD.

CUT VOLUME	2614 CU. YD.
FILL VOLUME	17 CU. YD.

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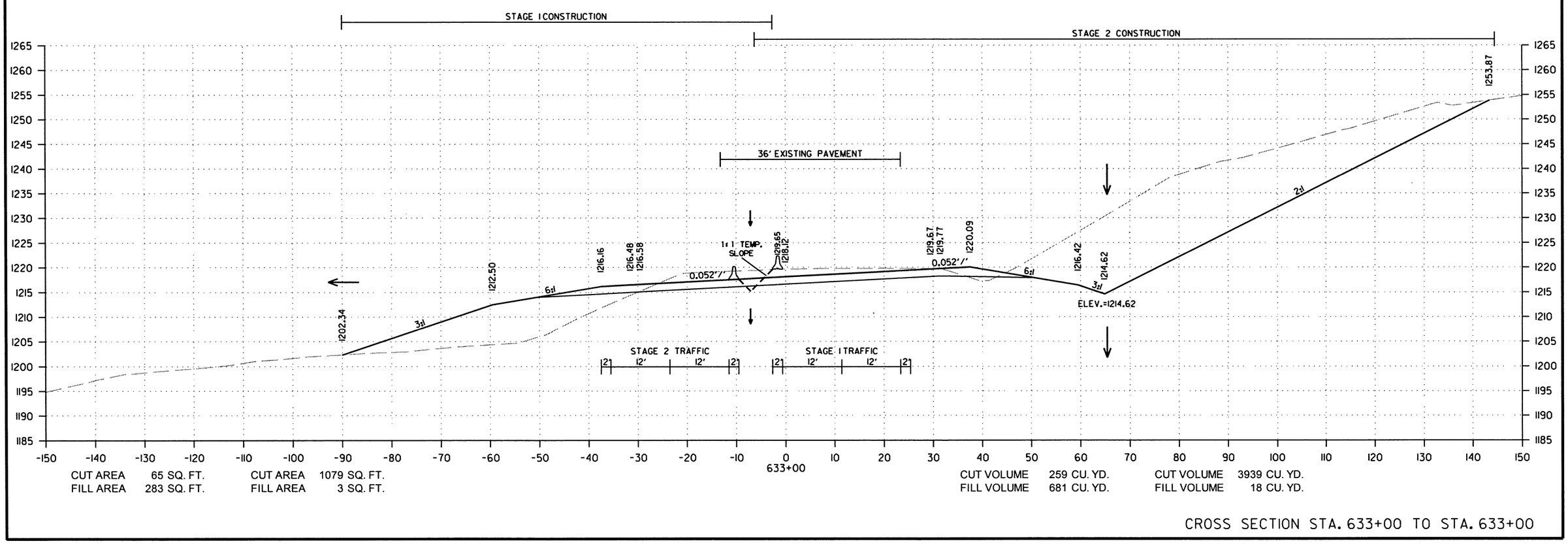
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 632+00 TO STA. 632+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	374	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2



CUT AREA 65 SQ. FT. CUT AREA 1079 SQ. FT.
FILL AREA 283 SQ. FT. FILL AREA 3 SQ. FT.

CUT VOLUME 259 CU. YD. CUT VOLUME 3939 CU. YD.
FILL VOLUME 681 CU. YD. FILL VOLUME 18 CU. YD.

CROSS SECTION STA. 633+00 TO STA. 633+00

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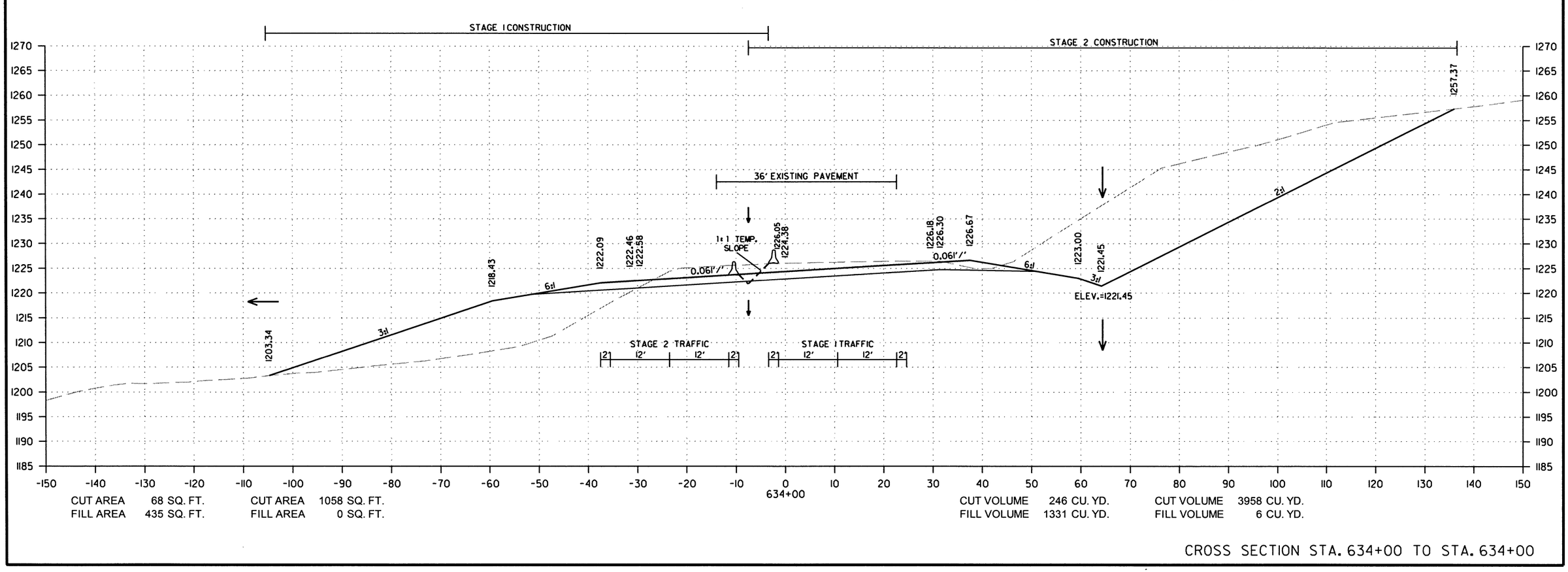
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	375	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2



CUT AREA 68 SQ. FT. CUT AREA 1058 SQ. FT.
FILL AREA 435 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 246 CU. YD. CUT VOLUME 3958 CU. YD.
FILL VOLUME 1331 CU. YD. FILL VOLUME 6 CU. YD.

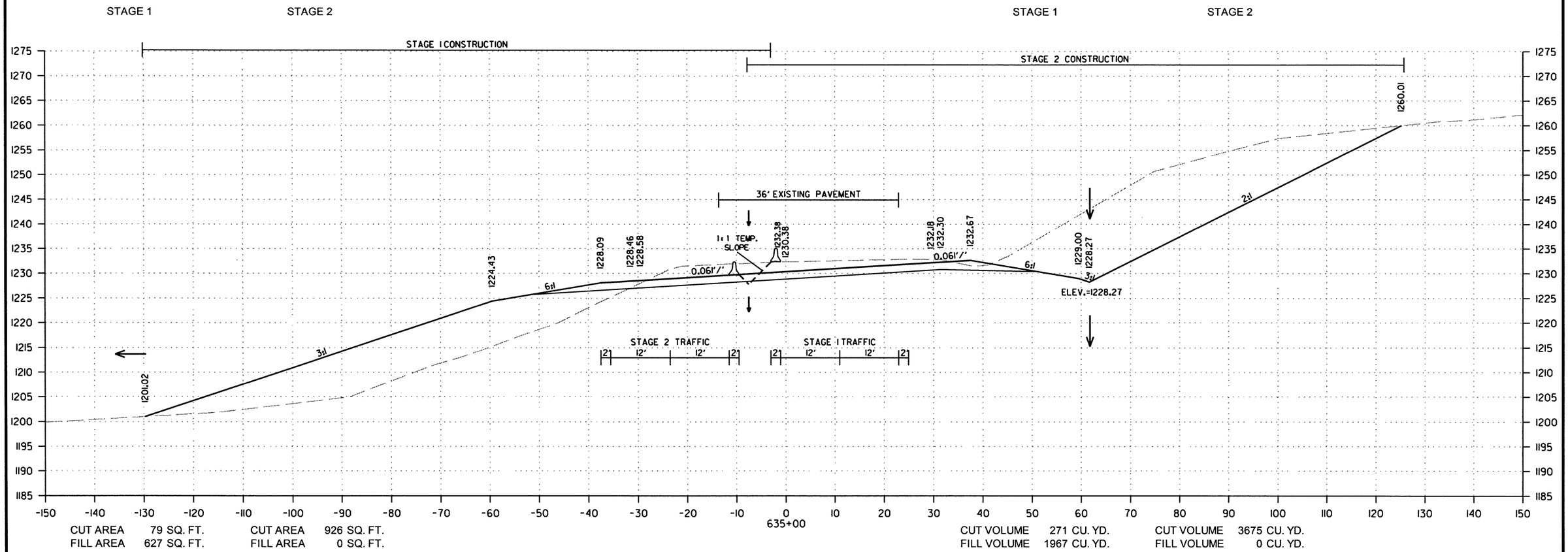
CROSS SECTION STA. 634+00 TO STA. 634+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	376	605

(2) CROSS SECTIONS



CUT AREA 79 SQ. FT.
FILL AREA 627 SQ. FT.

CUT AREA 926 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 271 CU. YD.
FILL VOLUME 1967 CU. YD.

CUT VOLUME 3675 CU. YD.
FILL VOLUME 0 CU. YD.

CROSS SECTION STA. 635+00 TO STA. 635+00

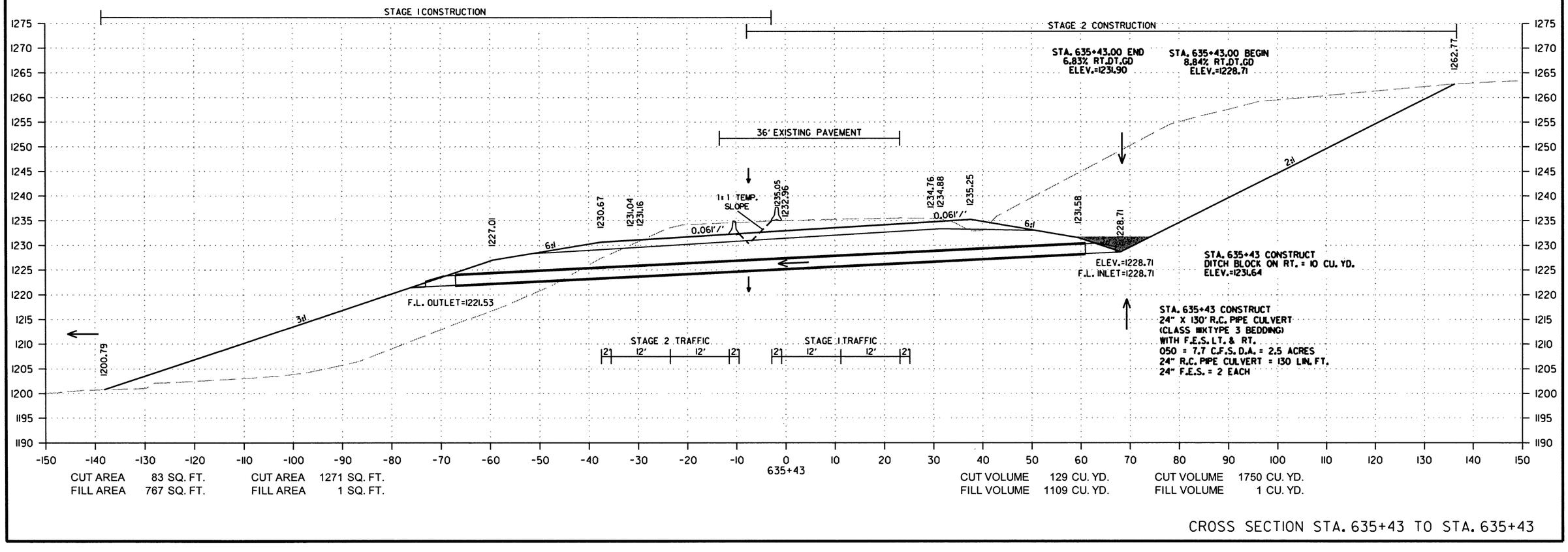
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	377	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	83 SQ. FT.	CUT AREA	1271 SQ. FT.	CUT VOLUME	129 CU. YD.
FILL AREA	767 SQ. FT.	FILL AREA	1 SQ. FT.	FILL VOLUME	1109 CU. YD.

CUT VOLUME	1750 CU. YD.
FILL VOLUME	1 CU. YD.

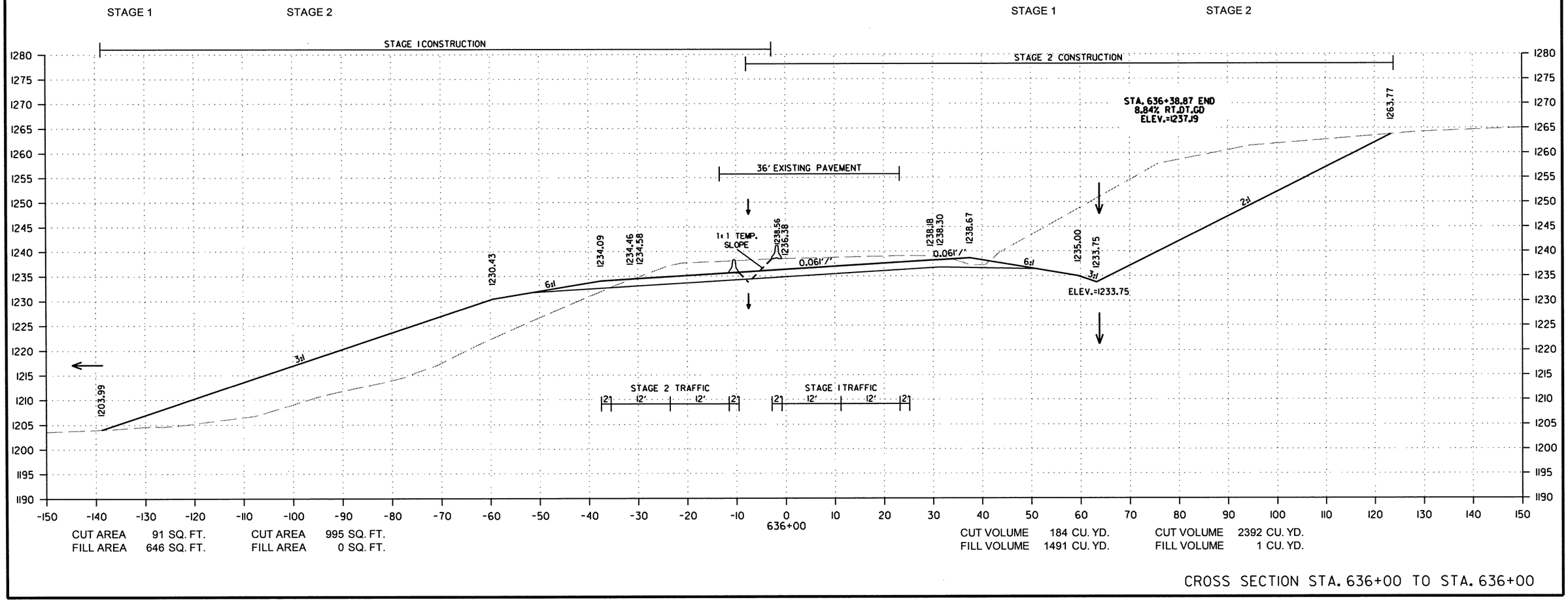
CROSS SECTION STA. 635+43 TO STA. 635+43

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	378	605

(2) CROSS SECTIONS



CROSS SECTION STA. 636+00 TO STA. 636+00

11/13/2018

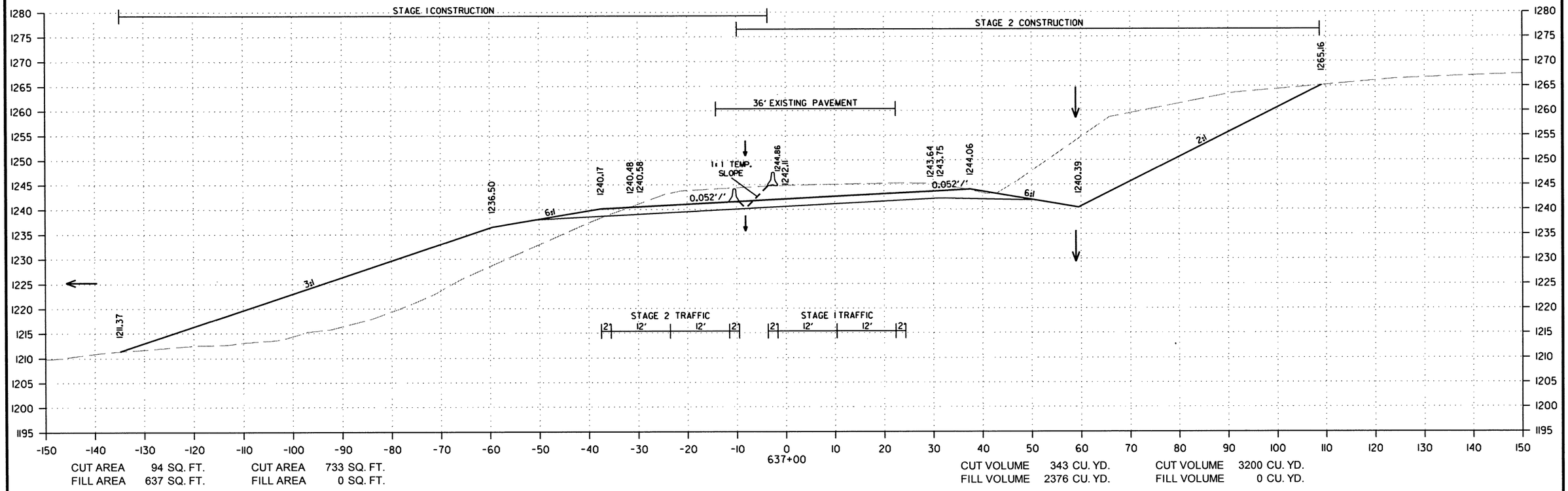
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	379	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 94 SQ. FT. CUT AREA 733 SQ. FT.
FILL AREA 637 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 343 CU. YD. CUT VOLUME 3200 CU. YD.
FILL VOLUME 2376 CU. YD. FILL VOLUME 0 CU. YD.

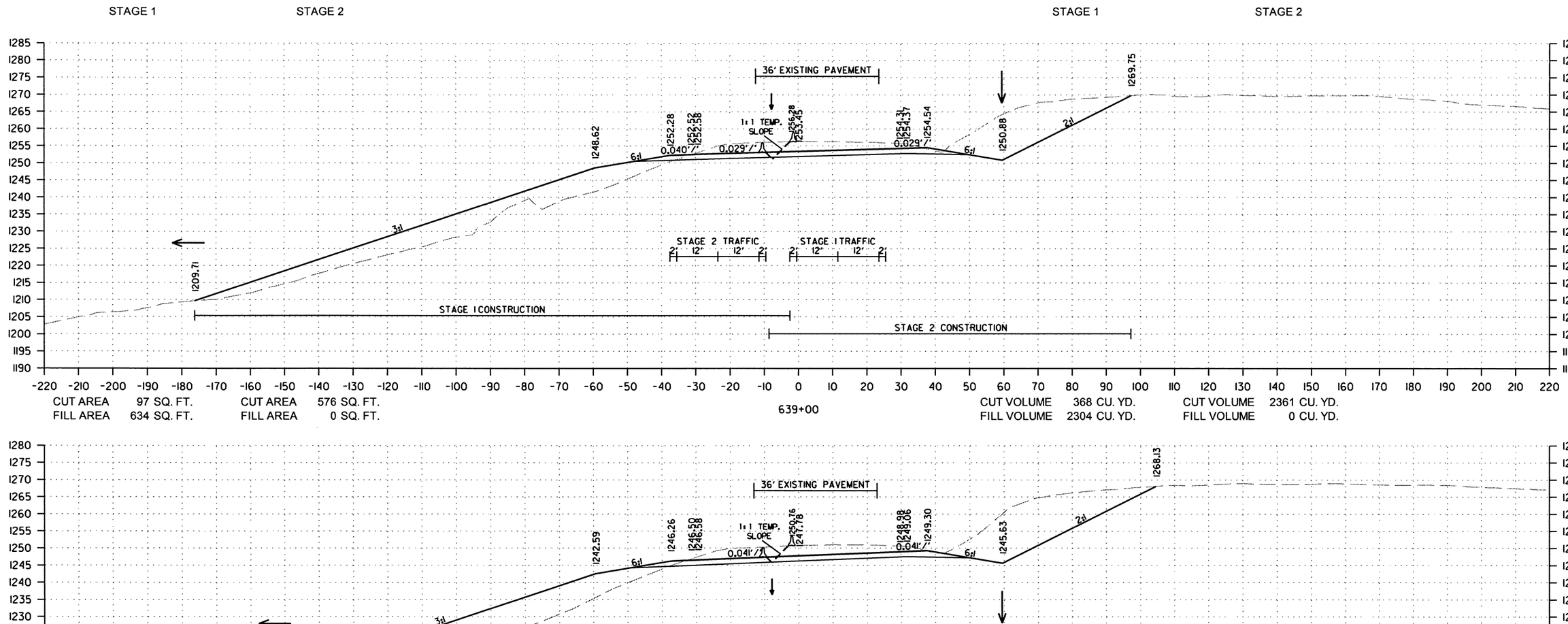
CROSS SECTION STA. 637+00 TO STA. 637+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	380	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

CROSS SECTION STA. 638+00 TO STA. 639+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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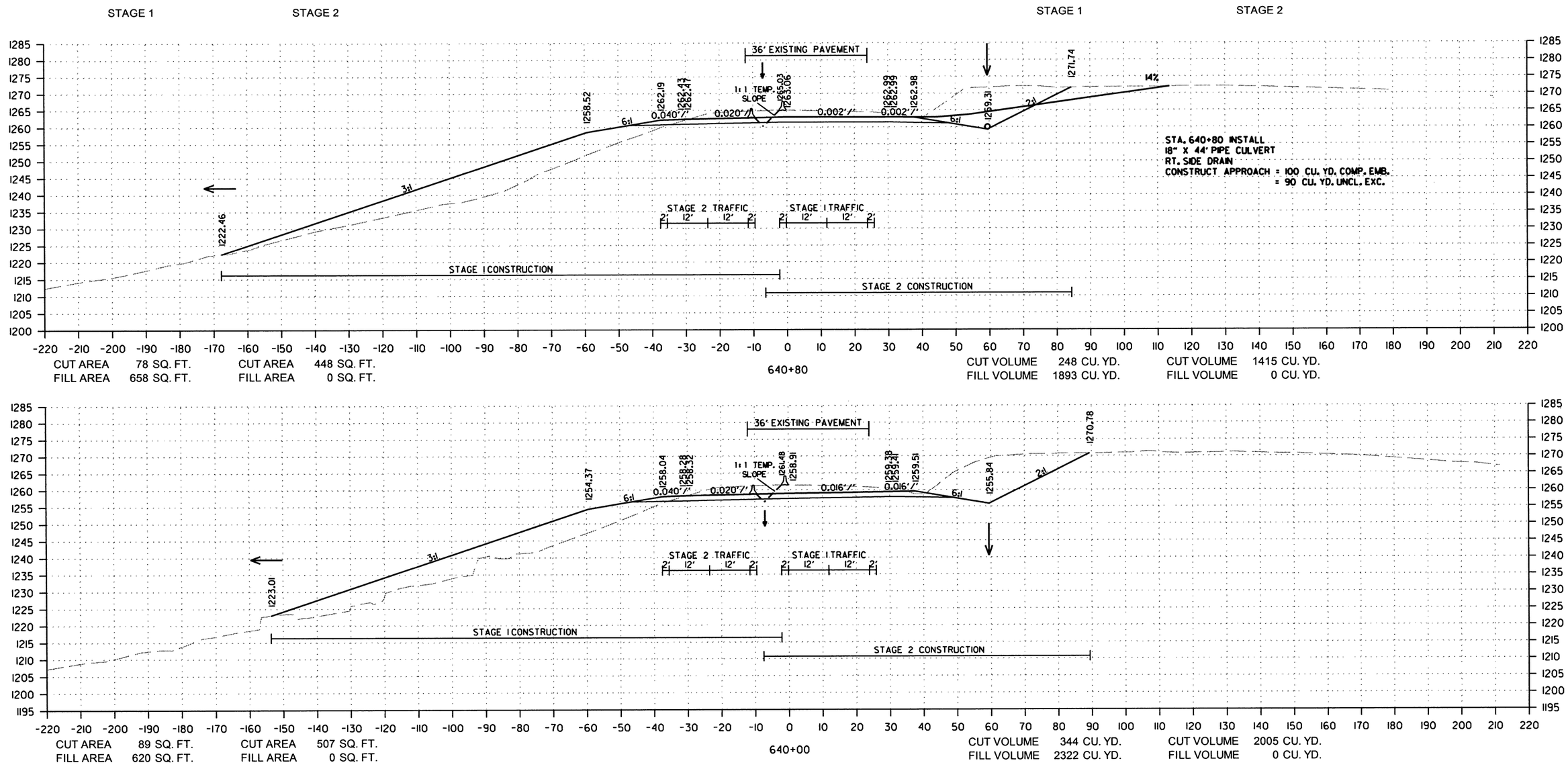
				JOB NO.		CA0801	381	605

(2) CROSS SECTIONS



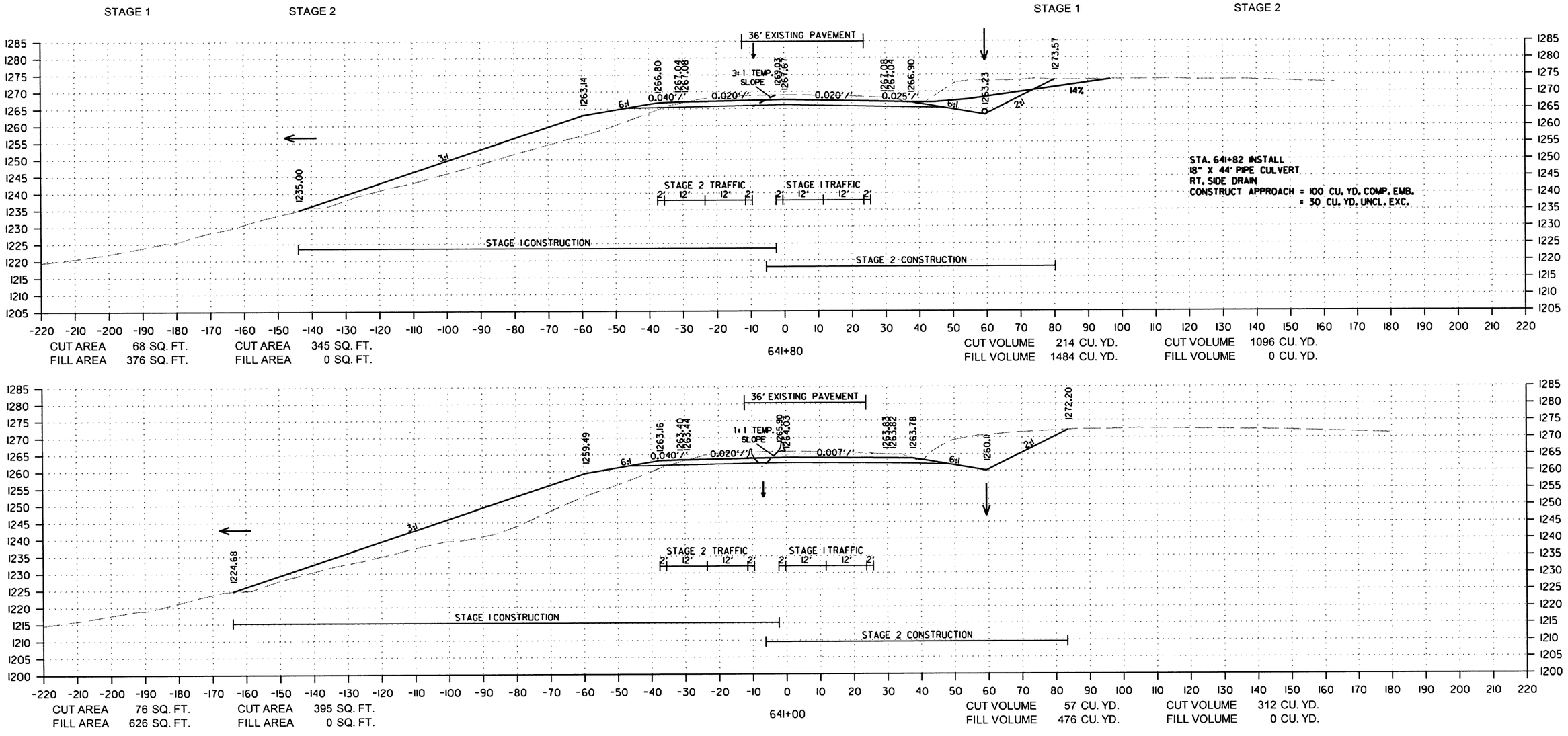
11/13/2018

RCA0801.DGN

CROSS SECTION STA. 640+00 TO STA. 640+80

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	382	605

(2) CROSS SECTIONS



CROSS SECTION STA. 641+00 TO STA. 641+80

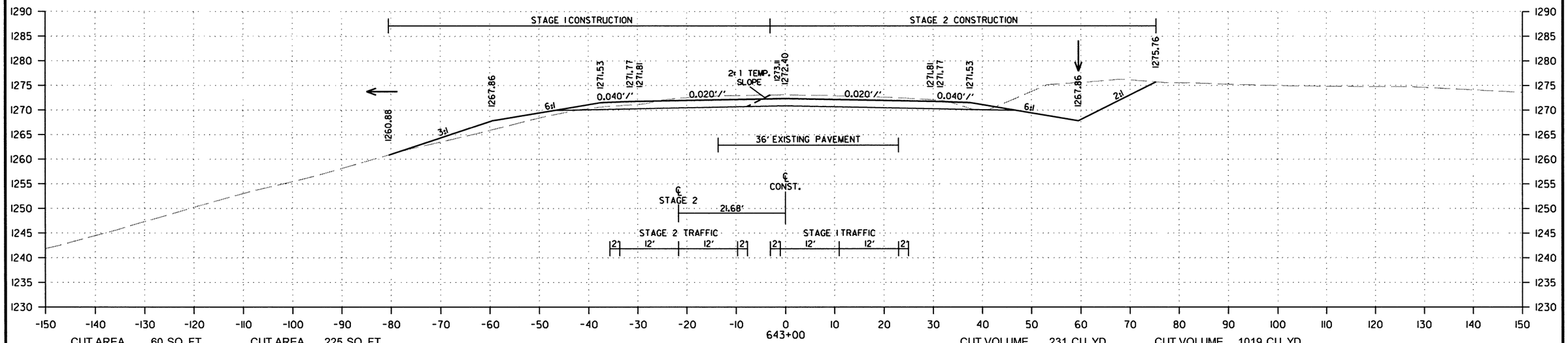
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	383	605

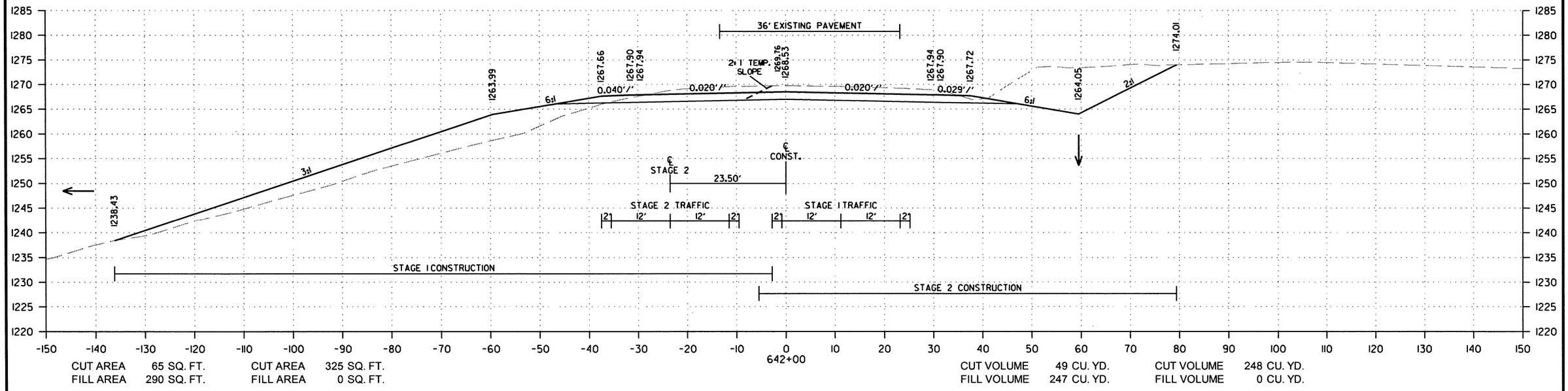
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 60 SQ. FT. CUT AREA 225 SQ. FT.
FILL AREA 37 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 231 CU. YD. CUT VOLUME 1019 CU. YD.
FILL VOLUME 606 CU. YD. FILL VOLUME 1 CU. YD.



CUT AREA 65 SQ. FT. CUT AREA 325 SQ. FT.
FILL AREA 290 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 49 CU. YD. CUT VOLUME 248 CU. YD.
FILL VOLUME 247 CU. YD. FILL VOLUME 0 CU. YD.

11/13/2018

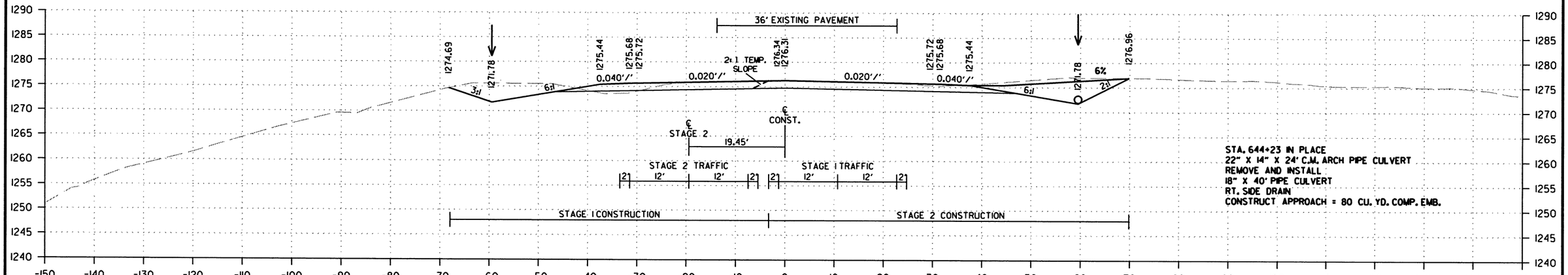
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 642+00 TO STA. 643+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	384	605

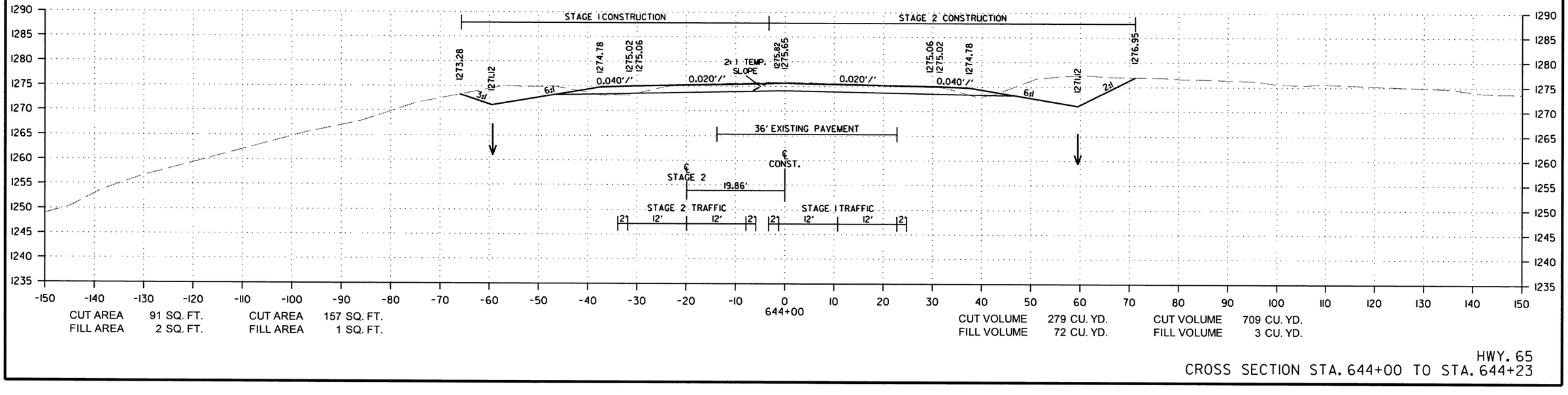
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 93 SQ. FT. CUT AREA 152 SQ. FT.
FILL AREA 4 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 79 CU. YD. CUT VOLUME 132 CU. YD.
FILL VOLUME 2 CU. YD. FILL VOLUME 0 CU. YD.



CUT AREA 91 SQ. FT. CUT AREA 157 SQ. FT.
FILL AREA 2 SQ. FT. FILL AREA 1 SQ. FT.

CUT VOLUME 279 CU. YD. CUT VOLUME 709 CU. YD.
FILL VOLUME 72 CU. YD. FILL VOLUME 3 CU. YD.

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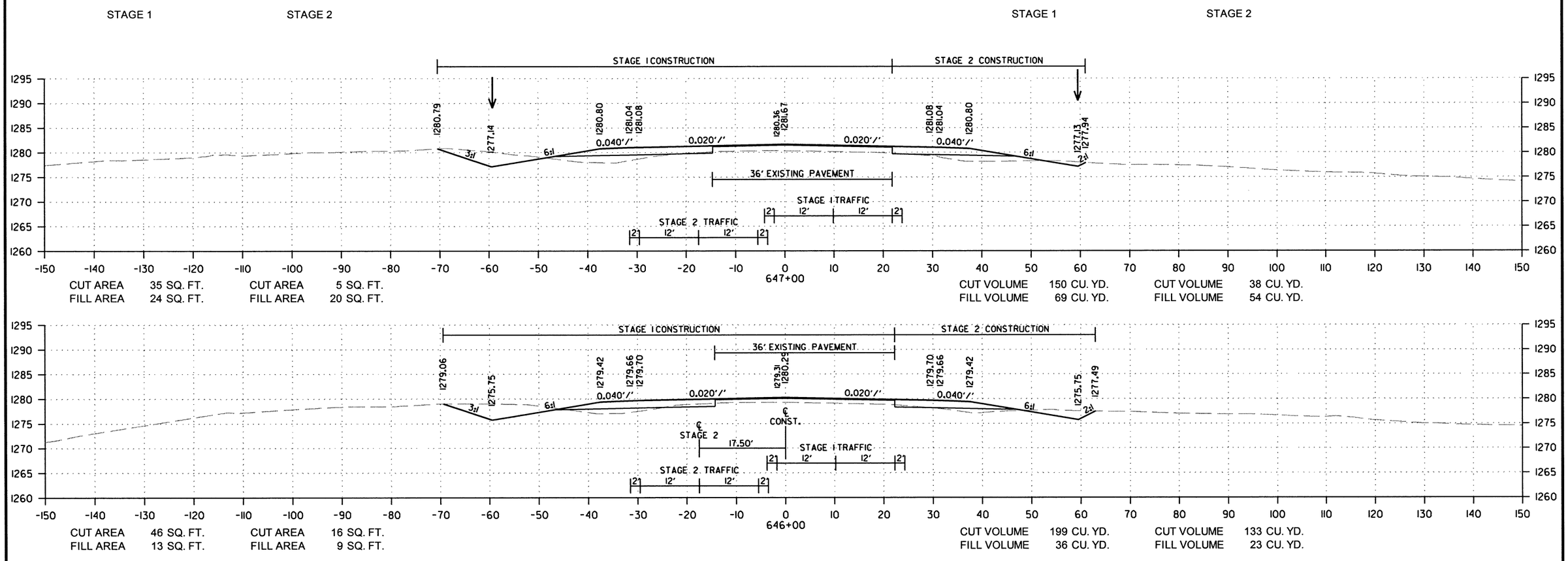
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 644+00 TO STA. 644+23

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	385	605

(2) CROSS SECTIONS



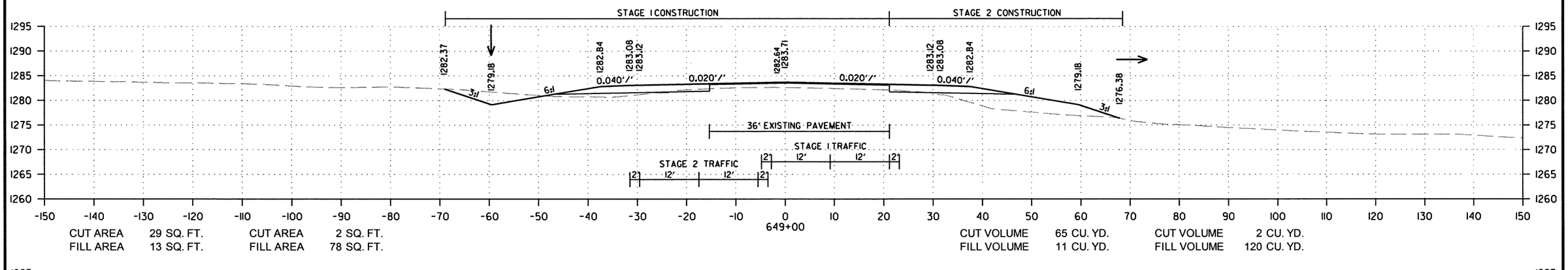
11/13/2018

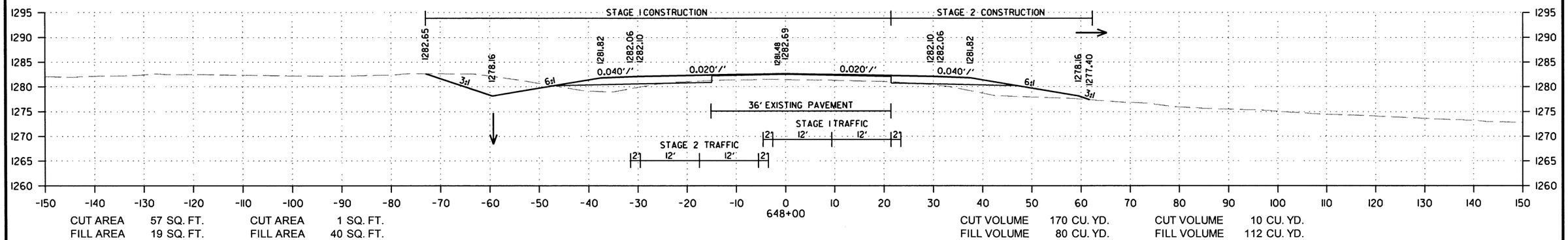
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 645+00 TO STA. 647+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	386	605

(2) CROSS SECTIONS





HWY. 65
CROSS SECTION STA. 648+00 TO STA. 649+00

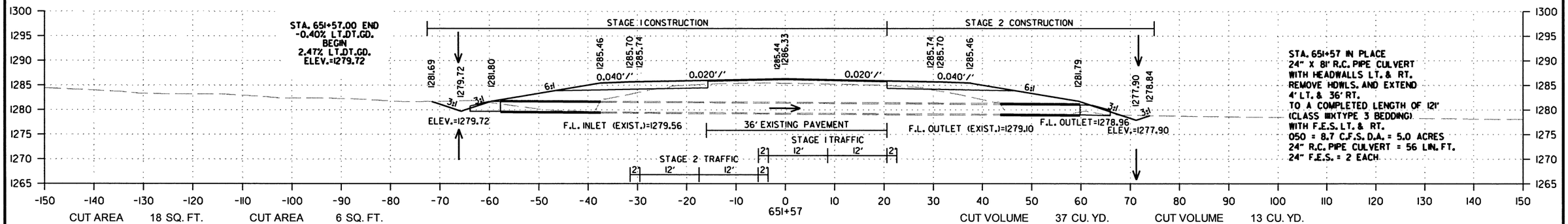
11/13/2018

RCA0801.DGN

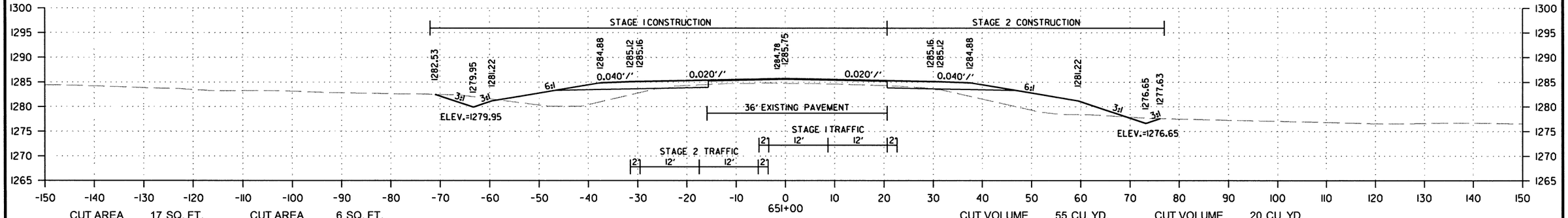
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	387	605

(2) CROSS SECTIONS

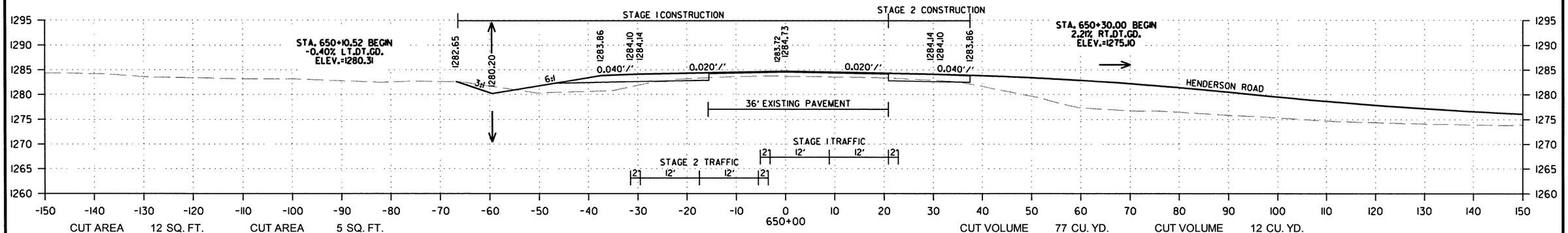
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 18 SQ. FT. CUT AREA 6 SQ. FT. CUT VOLUME 37 CU. YD. CUT VOLUME 13 CU. YD.
FILL AREA 79 SQ. FT. FILL AREA 89 SQ. FT. FILL VOLUME 149 CU. YD. FILL VOLUME 181 CU. YD.



CUT AREA 17 SQ. FT. CUT AREA 6 SQ. FT. CUT VOLUME 55 CU. YD. CUT VOLUME 20 CU. YD.
FILL AREA 63 SQ. FT. FILL AREA 83 SQ. FT. FILL VOLUME 187 CU. YD. FILL VOLUME 153 CU. YD.



CUT AREA 12 SQ. FT. CUT AREA 5 SQ. FT. CUT VOLUME 77 CU. YD. CUT VOLUME 12 CU. YD.
FILL AREA 38 SQ. FT. FILL AREA 0 SQ. FT. FILL VOLUME 94 CU. YD. FILL VOLUME 145 CU. YD.

HWY. 65
CROSS SECTION STA. 650+00 TO STA. 651+57

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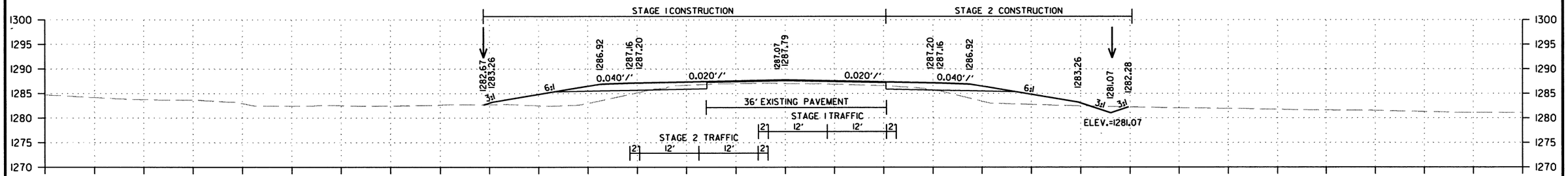
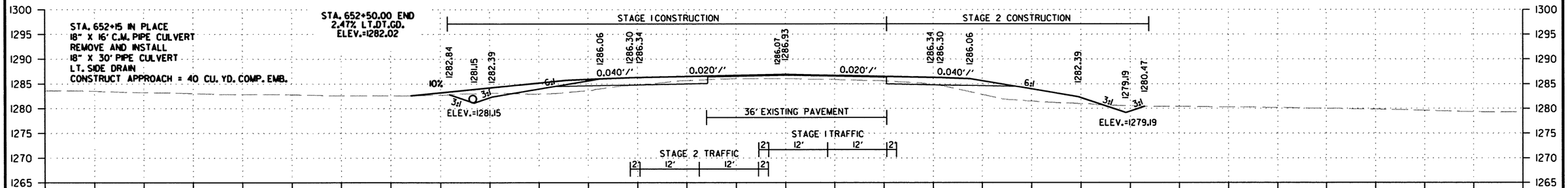
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	388	605

(2) CROSS SECTIONS

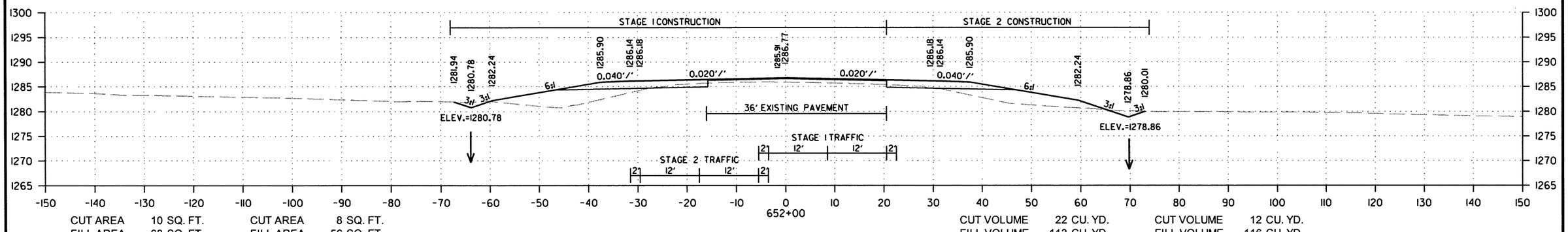
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 7 SQ. FT. CUT AREA 9 SQ. FT. CUT VOLUME 40 CU. YD. CUT VOLUME 29 CU. YD.
FILL AREA 57 SQ. FT. FILL AREA 47 SQ. FT. FILL VOLUME 120 CU. YD. FILL VOLUME 160 CU. YD.



CUT AREA 18 SQ. FT. CUT AREA 9 SQ. FT. CUT VOLUME 8 CU. YD. CUT VOLUME 5 CU. YD.
FILL AREA 19 SQ. FT. FILL AREA 54 SQ. FT. FILL VOLUME 23 CU. YD. FILL VOLUME 31 CU. YD.



CUT AREA 10 SQ. FT. CUT AREA 8 SQ. FT. CUT VOLUME 22 CU. YD. CUT VOLUME 12 CU. YD.
FILL AREA 63 SQ. FT. FILL AREA 56 SQ. FT. FILL VOLUME 113 CU. YD. FILL VOLUME 116 CU. YD.

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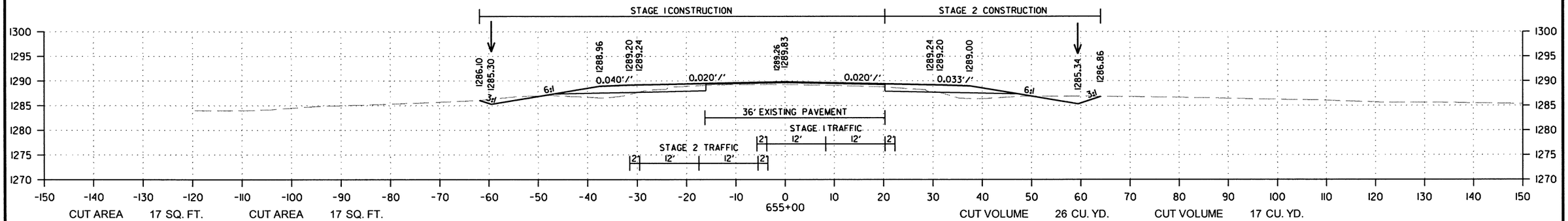
HWY. 65
CROSS SECTION STA. 652+00 TO STA. 653+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	389	605

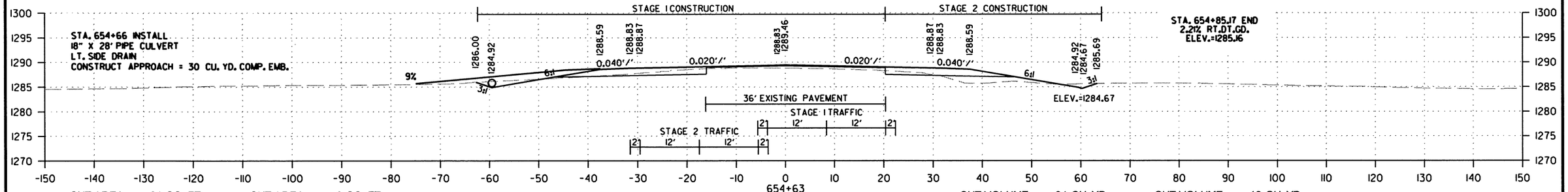
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



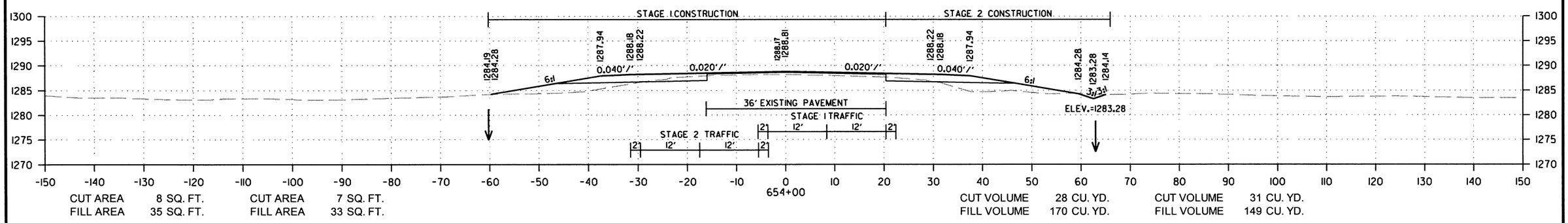
CUT AREA 17 SQ. FT. CUT AREA 17 SQ. FT.
FILL AREA 12 SQ. FT. FILL AREA 14 SQ. FT.

CUT VOLUME 26 CU. YD. CUT VOLUME 17 CU. YD.
FILL VOLUME 9 CU. YD. FILL VOLUME 24 CU. YD.



CUT AREA 21 SQ. FT. CUT AREA 9 SQ. FT.
FILL AREA 1 SQ. FT. FILL AREA 21 SQ. FT.

CUT VOLUME 34 CU. YD. CUT VOLUME 19 CU. YD.
FILL VOLUME 42 CU. YD. FILL VOLUME 63 CU. YD.



CUT AREA 8 SQ. FT. CUT AREA 7 SQ. FT.
FILL AREA 35 SQ. FT. FILL AREA 33 SQ. FT.

CUT VOLUME 28 CU. YD. CUT VOLUME 31 CU. YD.
FILL VOLUME 170 CU. YD. FILL VOLUME 149 CU. YD.

HWY. 65
CROSS SECTION STA. 654+00 TO STA. 655+00

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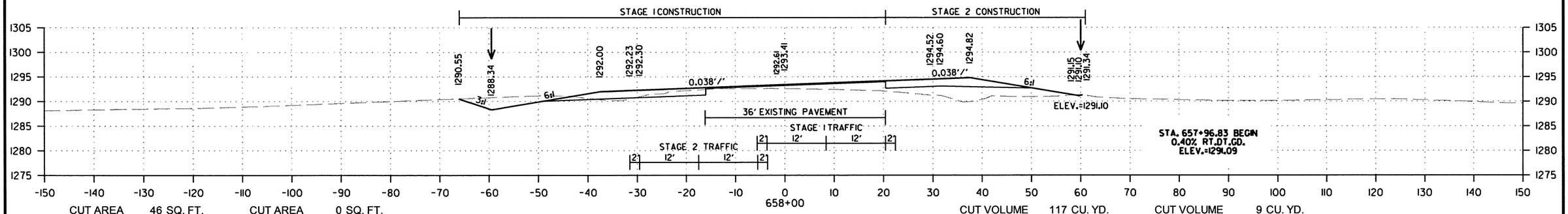
				6	ARK.			
				JOB NO.		CA0801	390	605

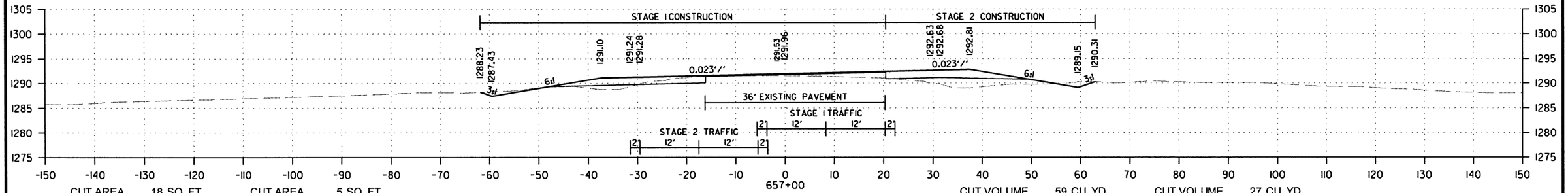
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



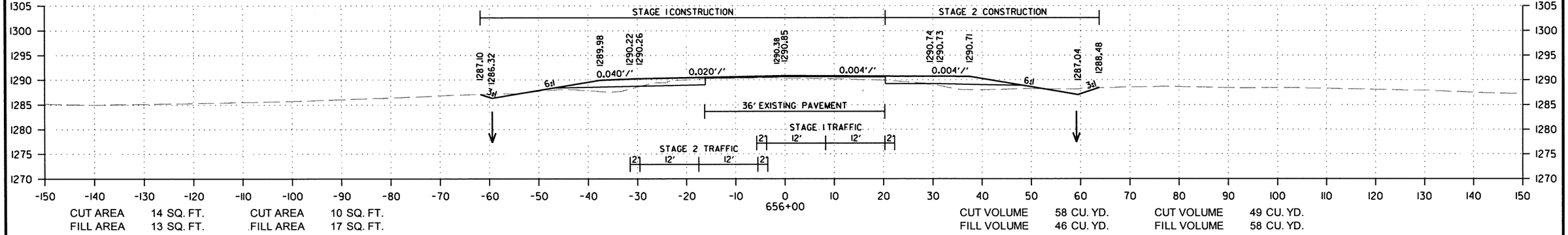
CUT AREA	46 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	117 CU. YD.
FILL AREA	2 SQ. FT.	FILL AREA	63 SQ. FT.	FILL VOLUME	18 CU. YD.

CUT VOLUME	9 CU. YD.		
FILL VOLUME	186 CU. YD.		



CUT AREA	18 SQ. FT.	CUT AREA	5 SQ. FT.	CUT VOLUME	59 CU. YD.
FILL AREA	7 SQ. FT.	FILL AREA	37 SQ. FT.	FILL VOLUME	37 CU. YD.

CUT VOLUME	27 CU. YD.		
FILL VOLUME	100 CU. YD.		



CUT AREA	14 SQ. FT.	CUT AREA	10 SQ. FT.	CUT VOLUME	58 CU. YD.
FILL AREA	13 SQ. FT.	FILL AREA	17 SQ. FT.	FILL VOLUME	46 CU. YD.

CUT VOLUME	49 CU. YD.		
FILL VOLUME	58 CU. YD.		

HWY. 65
CROSS SECTION STA. 656+00 TO STA. 658+00

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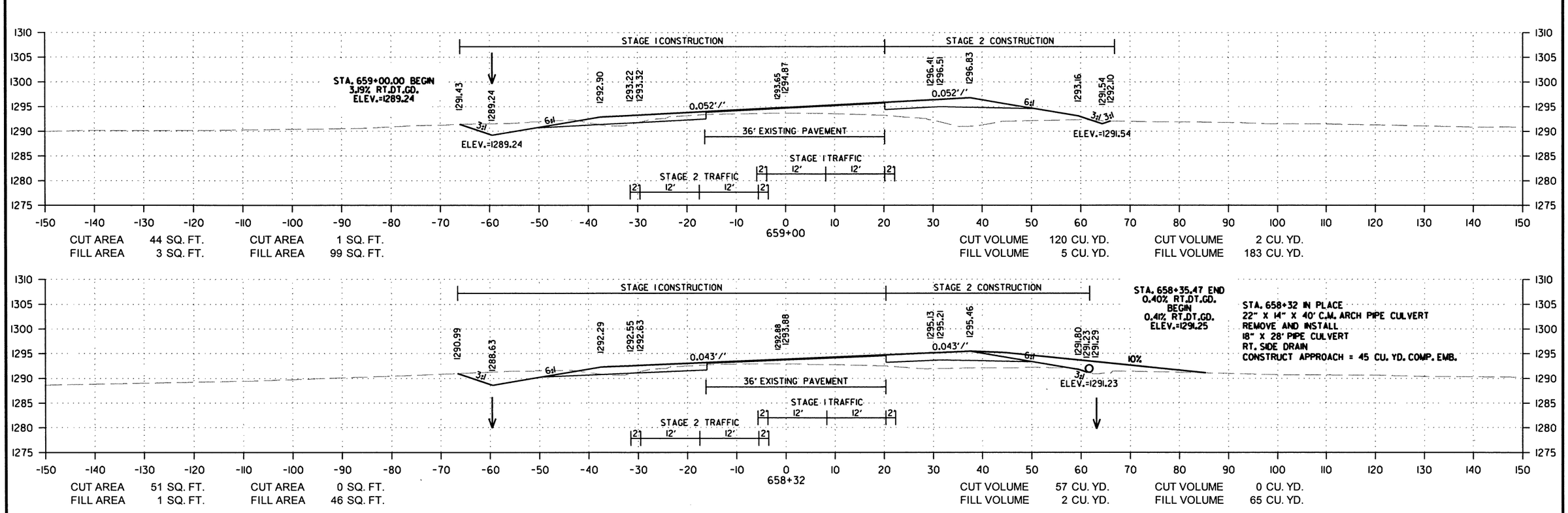
				6	ARK.			
				JOB NO.		CA0801	391	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



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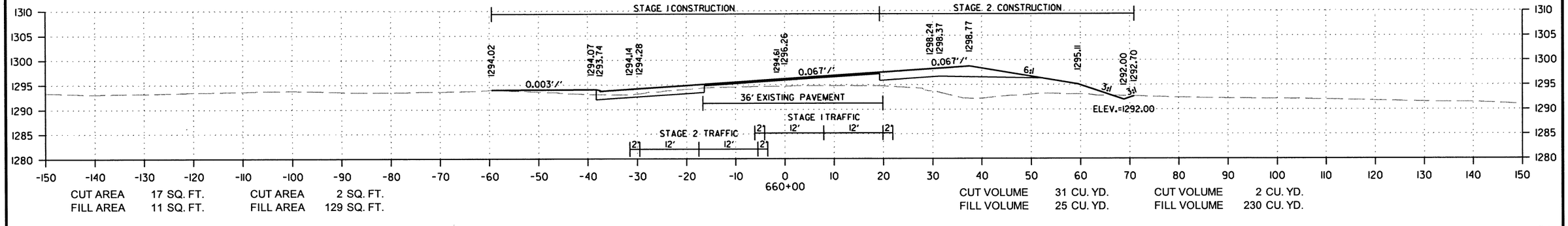
HWY. 65
CROSS SECTION STA. 658+32 TO STA. 659+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	392	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

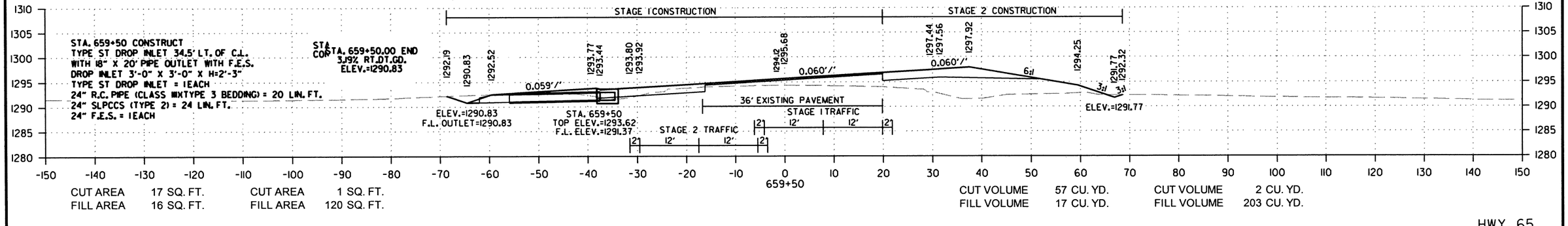


CUT AREA	17 SQ. FT.	CUT AREA	2 SQ. FT.
FILL AREA	11 SQ. FT.	FILL AREA	129 SQ. FT.

CUT VOLUME	31 CU. YD.	CUT VOLUME	2 CU. YD.
FILL VOLUME	25 CU. YD.	FILL VOLUME	230 CU. YD.

STA. 659+50 CONSTRUCT
TYPE ST DROP INLET 34.5' LT. OF C.L.
WITH 18" X 20' PIPE OUTLET WITH F.E.S.
DROP INLET 3'-0" X 3'-0" X H=2'-3"
TYPE ST DROP INLET = 1EACH
24" R.C. PIPE (CLASS IIIXTYPE 3 BEDDING) = 20 LIN. FT.
24" SLPCCS (TYPE 2) = 24 LIN. FT.
24" F.E.S. = 1EACH

STA. 659+50.00 END
3.9% RT.DT.GD.
ELEV.=1290.83



CUT AREA	17 SQ. FT.	CUT AREA	1 SQ. FT.
FILL AREA	16 SQ. FT.	FILL AREA	120 SQ. FT.

CUT VOLUME	57 CU. YD.	CUT VOLUME	2 CU. YD.
FILL VOLUME	17 CU. YD.	FILL VOLUME	203 CU. YD.

HWY. 65
CROSS SECTION STA. 659+50 TO STA. 660+00

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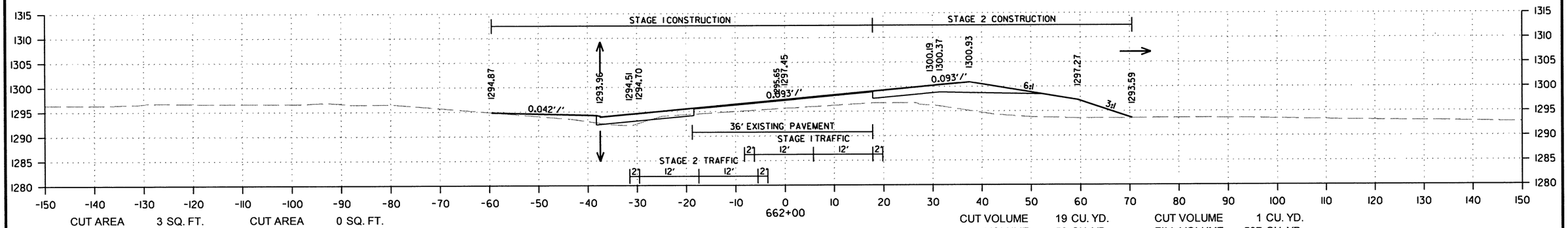
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	393	605

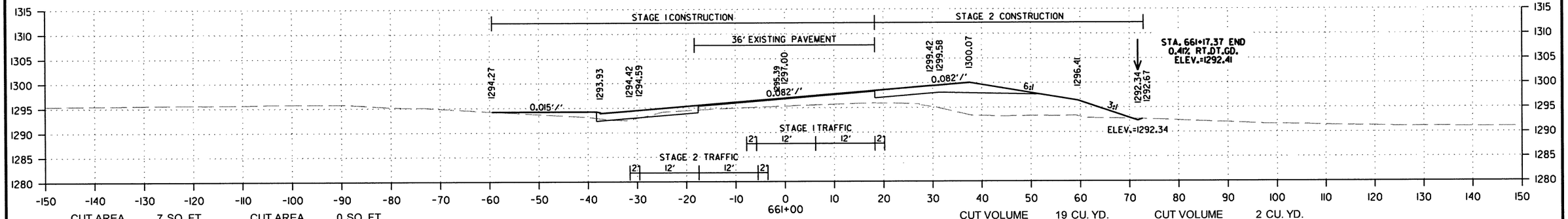
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



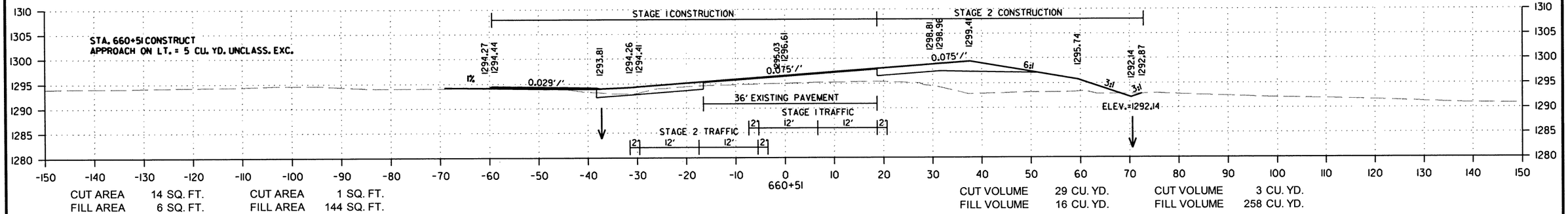
CUT AREA 3 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 18 SQ. FT. FILL AREA 158 SQ. FT.

CUT VOLUME 19 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 59 CU. YD. FILL VOLUME 587 CU. YD.



CUT AREA 7 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 14 SQ. FT. FILL AREA 159 SQ. FT.

CUT VOLUME 19 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 18 CU. YD. FILL VOLUME 276 CU. YD.



CUT AREA 14 SQ. FT. CUT AREA 1 SQ. FT.
FILL AREA 6 SQ. FT. FILL AREA 144 SQ. FT.

CUT VOLUME 29 CU. YD. CUT VOLUME 3 CU. YD.
FILL VOLUME 16 CU. YD. FILL VOLUME 258 CU. YD.

HWY. 65
CROSS SECTION STA. 660+51 TO STA. 662+00

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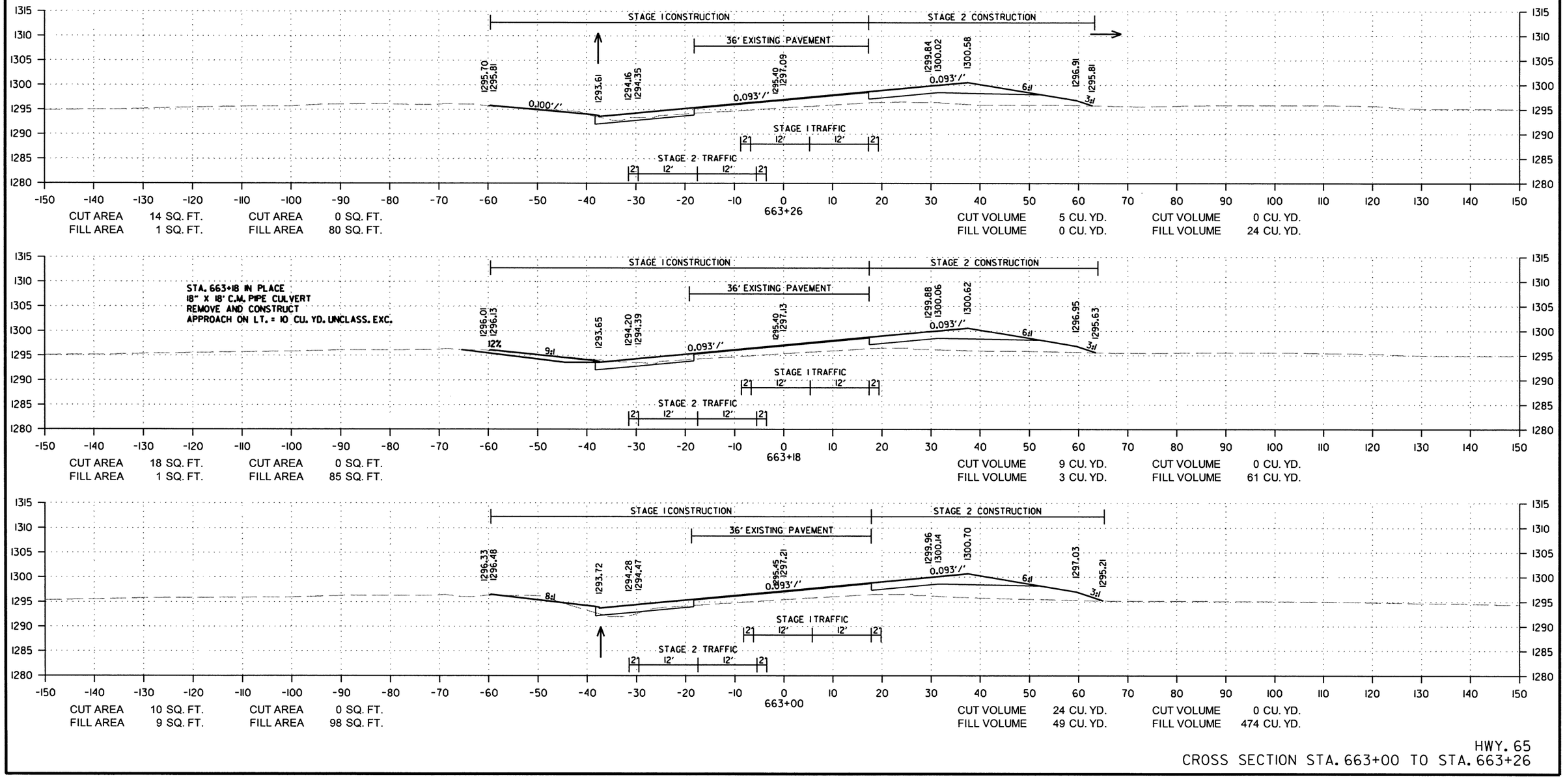
				6	ARK.			
				JOB NO.		CA0801	394	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	14 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	5 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	1 SQ. FT.	FILL AREA	80 SQ. FT.	FILL VOLUME	0 CU. YD.	FILL VOLUME	24 CU. YD.
CUT AREA	18 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	9 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	1 SQ. FT.	FILL AREA	85 SQ. FT.	FILL VOLUME	3 CU. YD.	FILL VOLUME	61 CU. YD.
CUT AREA	10 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	24 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	9 SQ. FT.	FILL AREA	98 SQ. FT.	FILL VOLUME	49 CU. YD.	FILL VOLUME	474 CU. YD.

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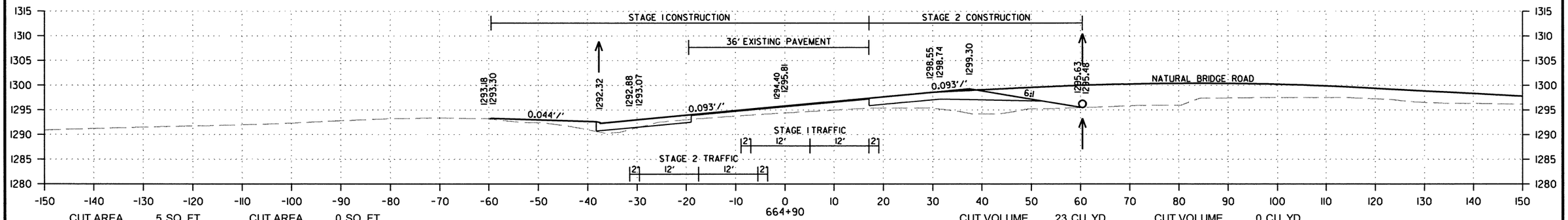
HWY. 65
CROSS SECTION STA. 663+00 TO STA. 663+26

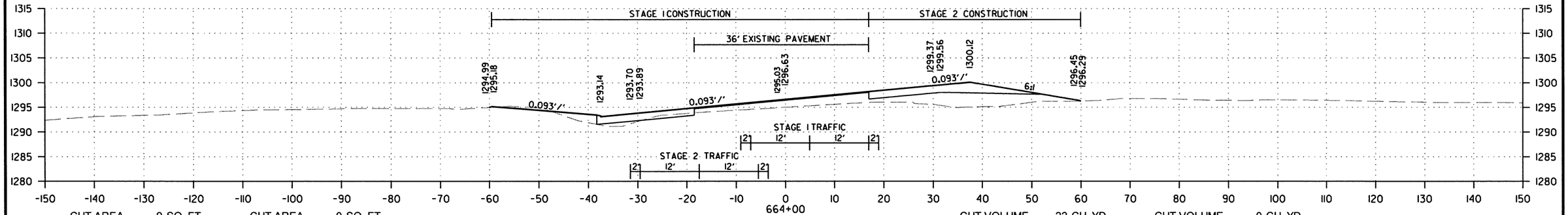
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	395	605

(2) CROSS SECTIONS

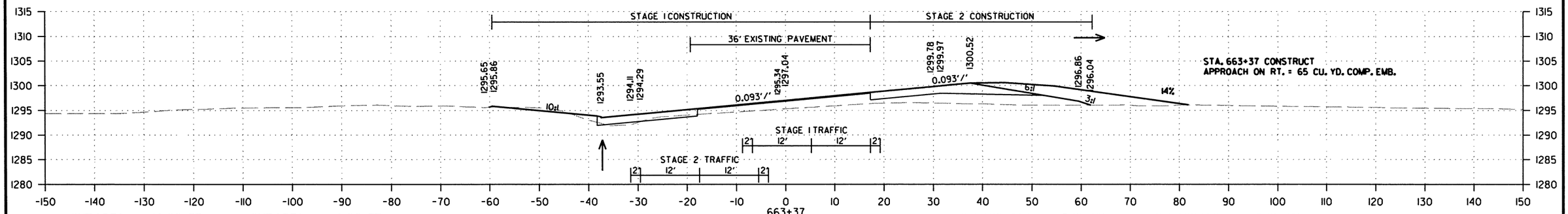
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 5 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 23 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 22 SQ. FT. FILL AREA 73 SQ. FT. FILL VOLUME 62 CU. YD. FILL VOLUME 252 CU. YD.



CUT AREA 9 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 22 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 15 SQ. FT. FILL AREA 78 SQ. FT. FILL VOLUME 26 CU. YD. FILL VOLUME 175 CU. YD.



CUT AREA 10 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 5 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 7 SQ. FT. FILL AREA 72 SQ. FT. FILL VOLUME 2 CU. YD. FILL VOLUME 31 CU. YD.

HWY. 65
CROSS SECTION STA. 663+37 TO STA. 664+90

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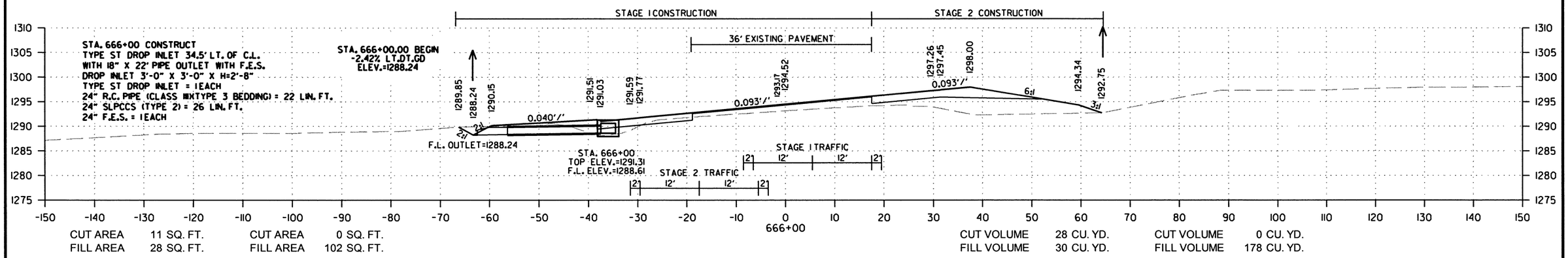
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	396	605

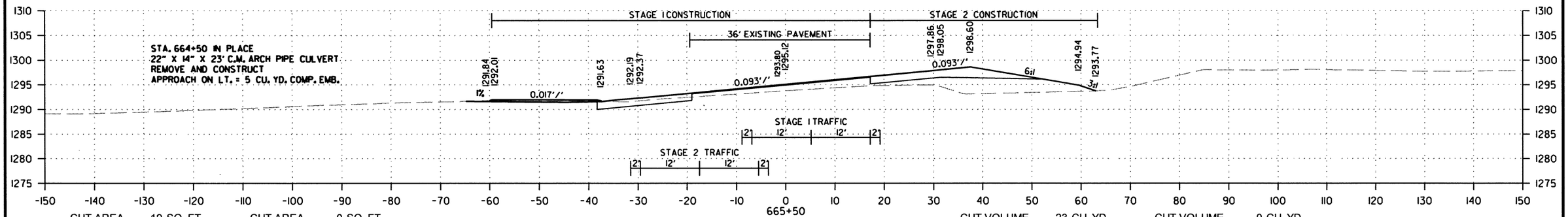
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



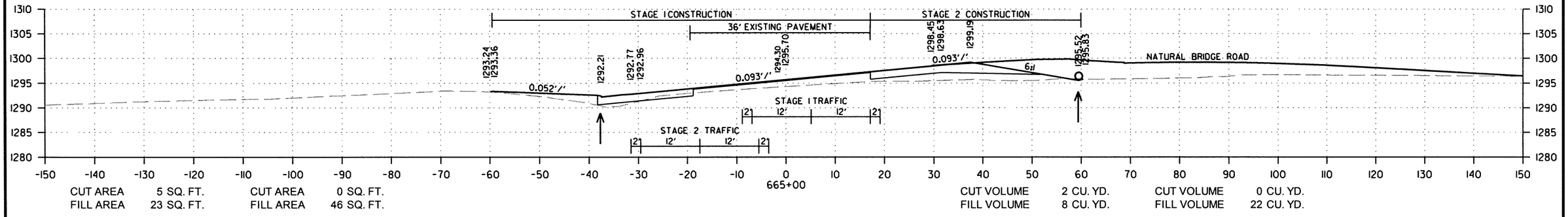
CUT AREA 11 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 28 SQ. FT. FILL AREA 102 SQ. FT.

CUT VOLUME 28 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 30 CU. YD. FILL VOLUME 178 CU. YD.



CUT AREA 19 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 5 SQ. FT. FILL AREA 91 SQ. FT.

CUT VOLUME 23 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 26 CU. YD. FILL VOLUME 126 CU. YD.



CUT AREA 5 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 23 SQ. FT. FILL AREA 46 SQ. FT.

CUT VOLUME 2 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 22 CU. YD.

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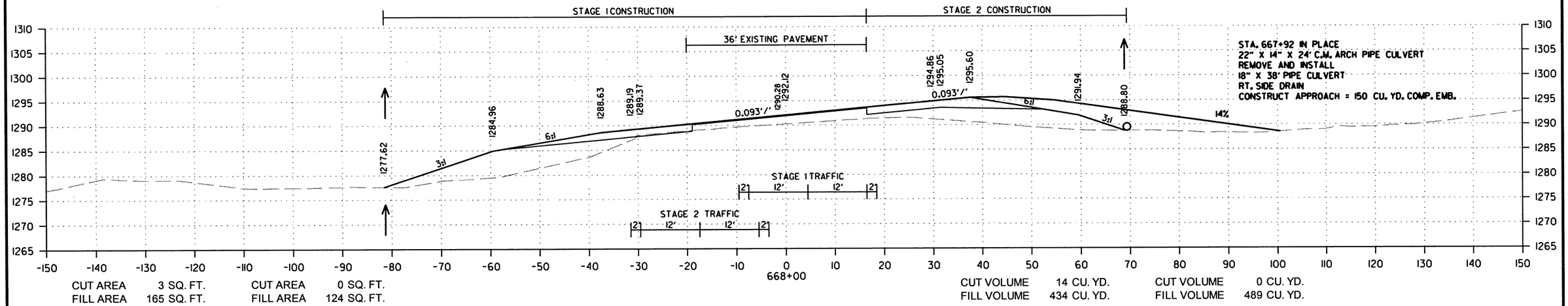
HWY. 65
CROSS SECTION STA. 665+00 TO STA. 666+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	397	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 667+00 TO STA. 668+00

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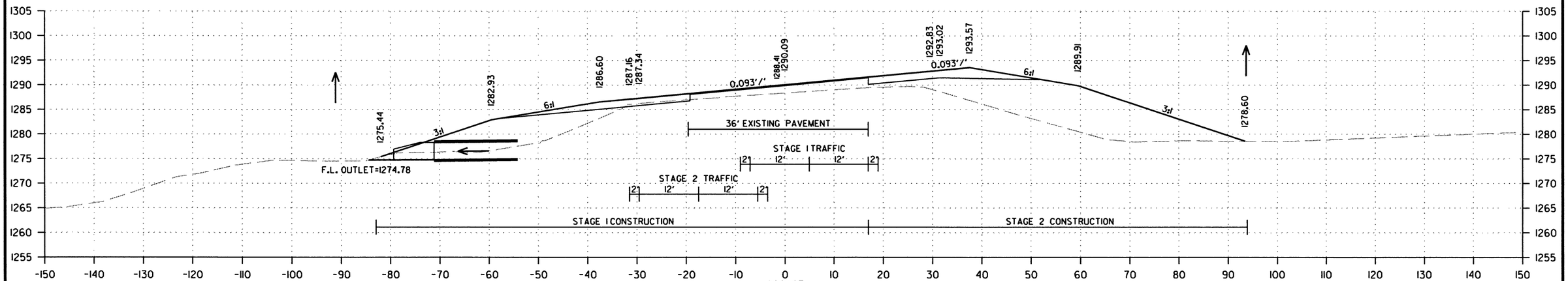
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	398	605

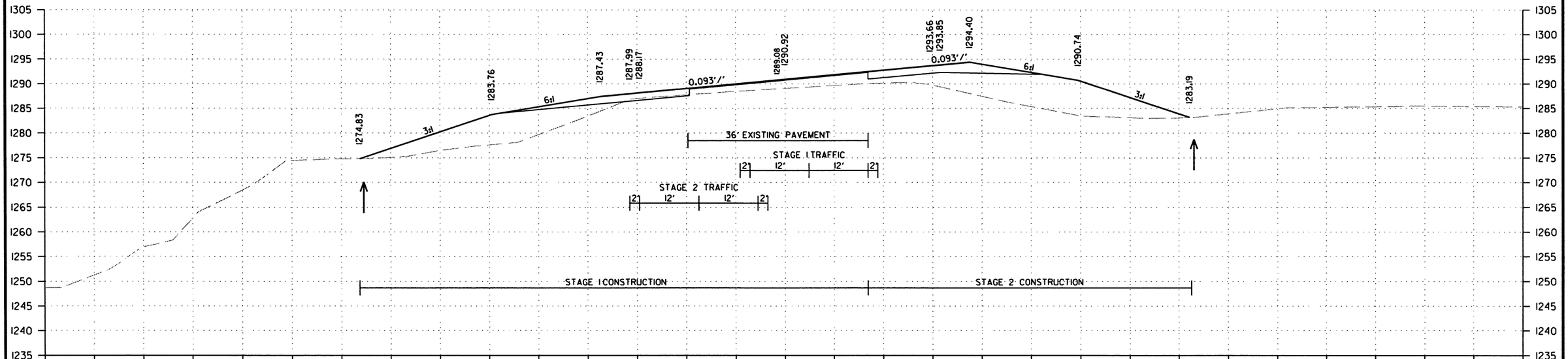
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 5 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 175 SQ. FT. FILL AREA 386 SQ. FT.

CUT VOLUME 16 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 652 CU. YD. FILL VOLUME 1168 CU. YD.



CUT AREA 4 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 188 SQ. FT. FILL AREA 264 SQ. FT.

CUT VOLUME 12 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 654 CU. YD. FILL VOLUME 719 CU. YD.

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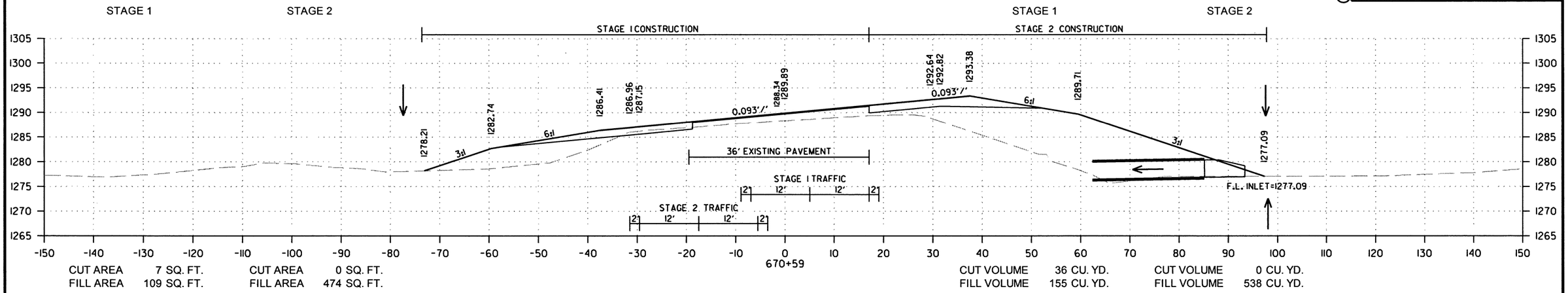
HWY. 65
CROSS SECTION STA. 669+00 TO STA. 669+97

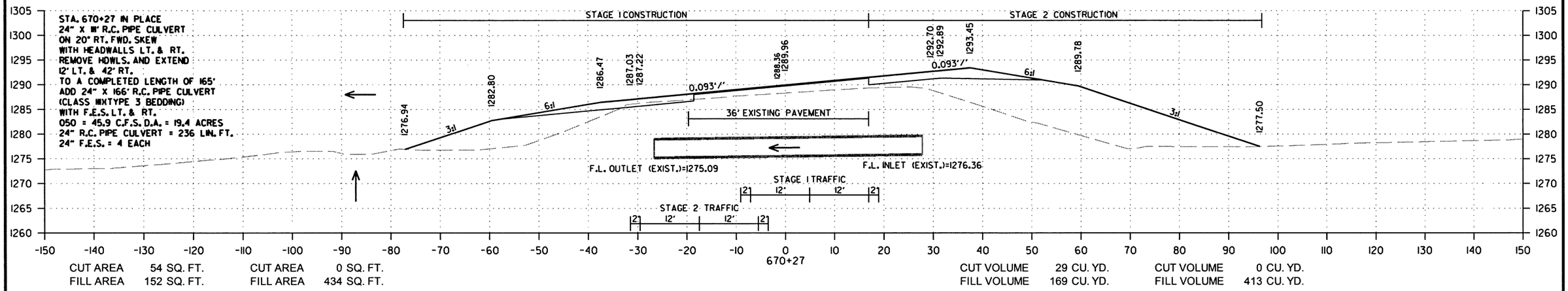
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	399	605

(2) CROSS SECTIONS



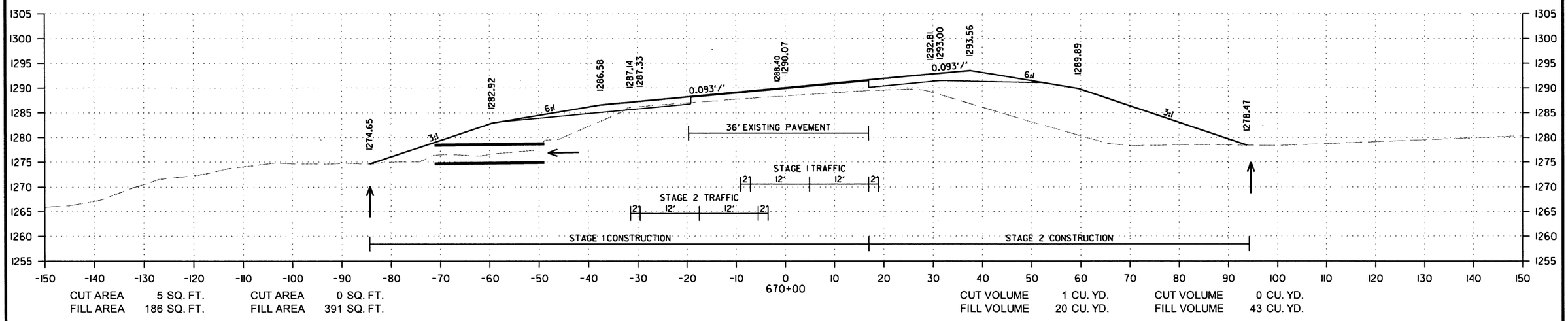
CUT AREA	7 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	36 CU. YD.
FILL AREA	109 SQ. FT.	FILL AREA	474 SQ. FT.	FILL VOLUME	155 CU. YD.

CUT VOLUME	0 CU. YD.
FILL VOLUME	538 CU. YD.



CUT AREA	54 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	29 CU. YD.
FILL AREA	152 SQ. FT.	FILL AREA	434 SQ. FT.	FILL VOLUME	169 CU. YD.

CUT VOLUME	0 CU. YD.
FILL VOLUME	413 CU. YD.



CUT AREA	5 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	1 CU. YD.
FILL AREA	186 SQ. FT.	FILL AREA	391 SQ. FT.	FILL VOLUME	20 CU. YD.

CUT VOLUME	0 CU. YD.
FILL VOLUME	43 CU. YD.

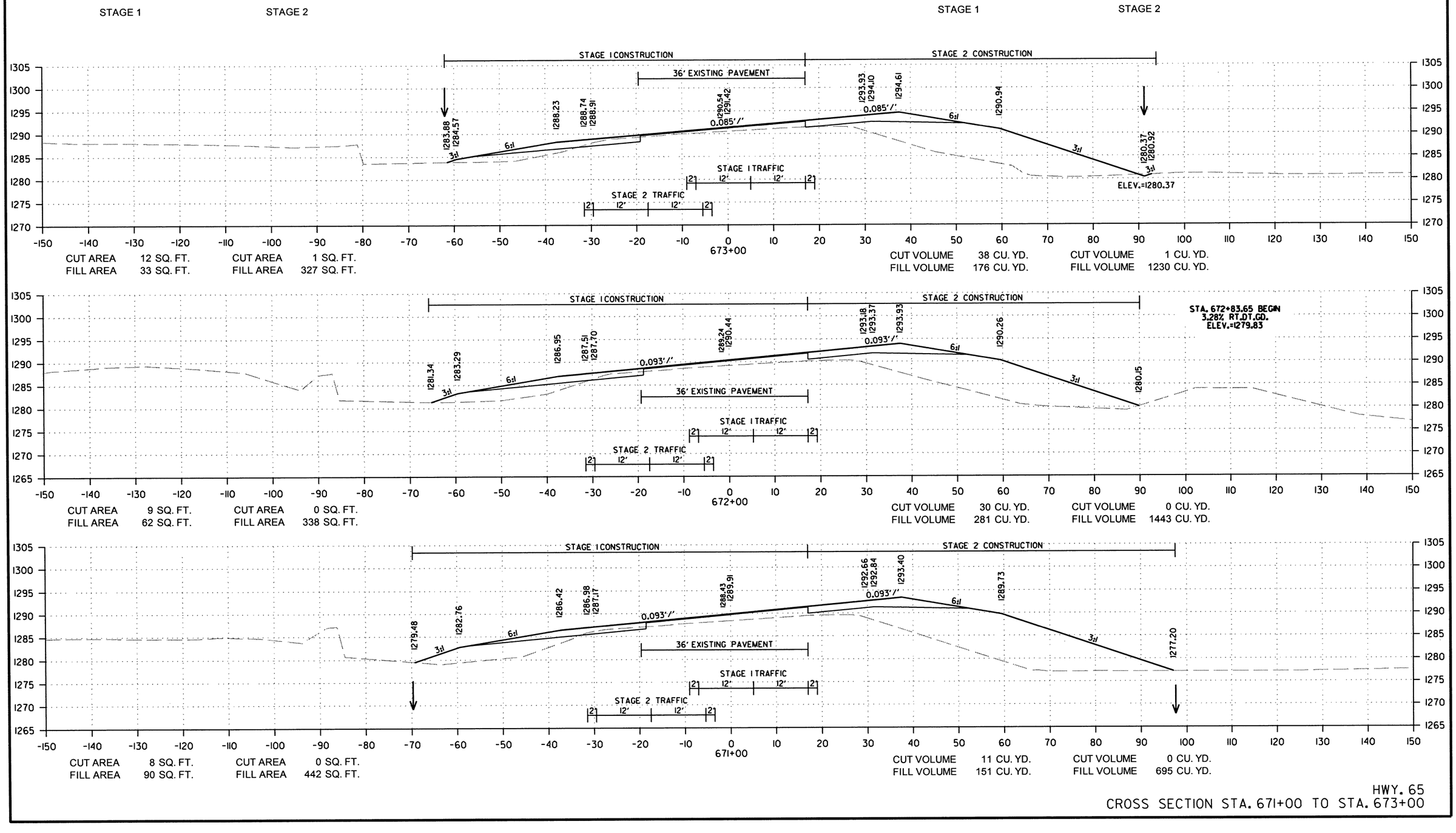
HWY. 65
CROSS SECTION STA. 670+00 TO STA. 670+59

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	400	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 671+00 TO STA. 673+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	401	605

(2) CROSS SECTIONS

HWY. 65
CROSS SECTION STA. 674+00 TO STA. A 675+22

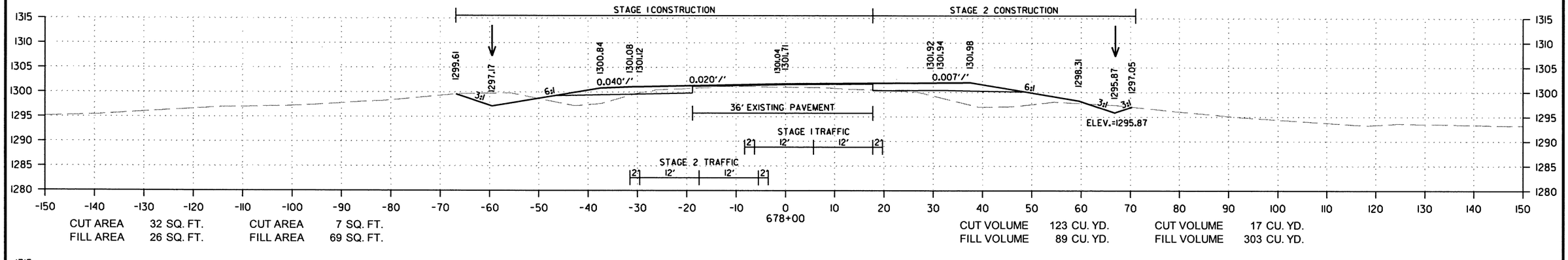
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	402	605

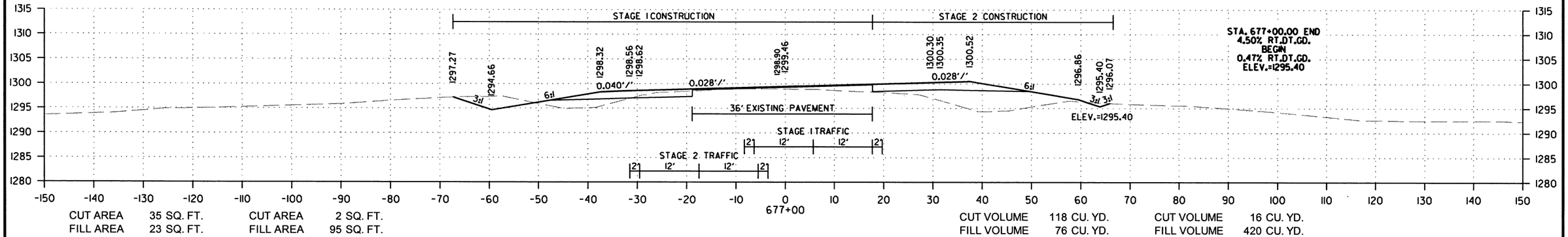
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



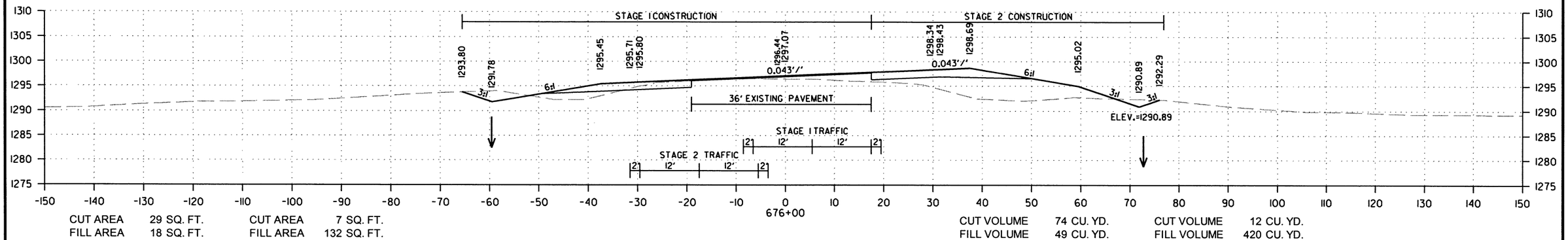
CUT AREA 32 SQ. FT. CUT AREA 7 SQ. FT.
FILL AREA 26 SQ. FT. FILL AREA 69 SQ. FT.

CUT VOLUME 123 CU. YD. CUT VOLUME 17 CU. YD.
FILL VOLUME 89 CU. YD. FILL VOLUME 303 CU. YD.



CUT AREA 35 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 23 SQ. FT. FILL AREA 95 SQ. FT.

CUT VOLUME 118 CU. YD. CUT VOLUME 16 CU. YD.
FILL VOLUME 76 CU. YD. FILL VOLUME 420 CU. YD.



CUT AREA 29 SQ. FT. CUT AREA 7 SQ. FT.
FILL AREA 18 SQ. FT. FILL AREA 132 SQ. FT.

CUT VOLUME 74 CU. YD. CUT VOLUME 12 CU. YD.
FILL VOLUME 49 CU. YD. FILL VOLUME 420 CU. YD.

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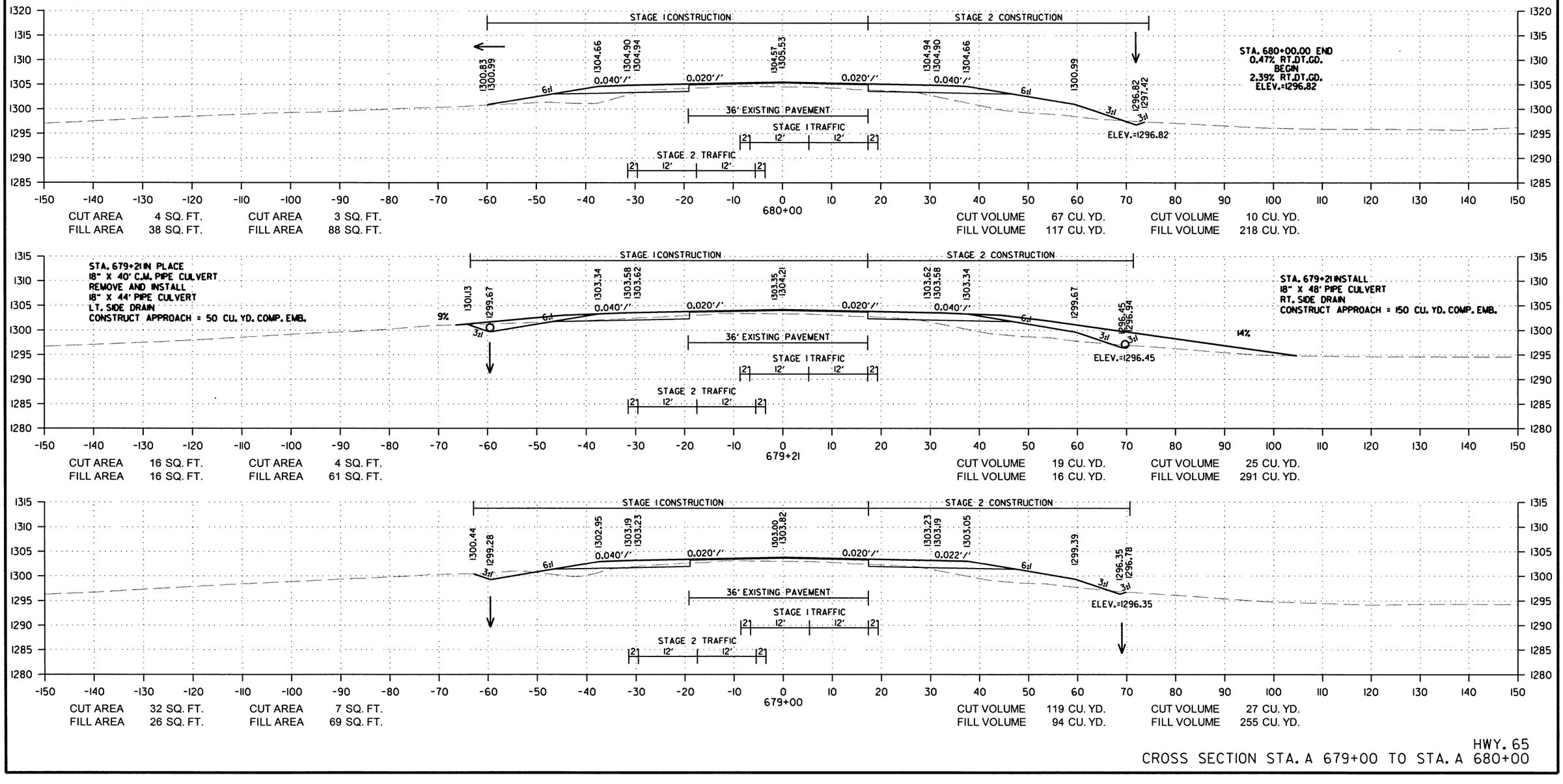
RCA0801.DGN

HWY. 65
CROSS SECTION STA. A 676+00 TO STA. A 678+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	403	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. A 679+00 TO STA. A 680+00

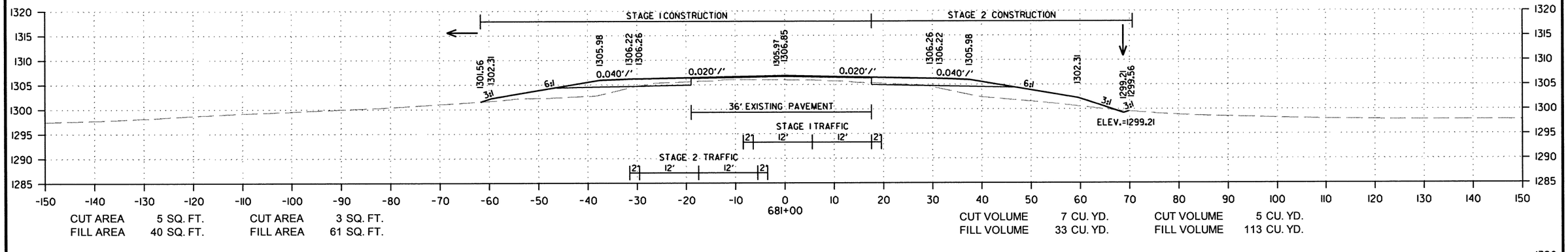
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	404	605

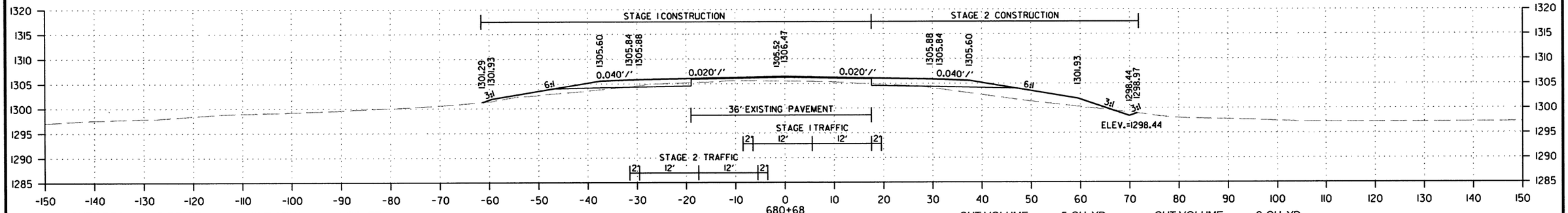
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



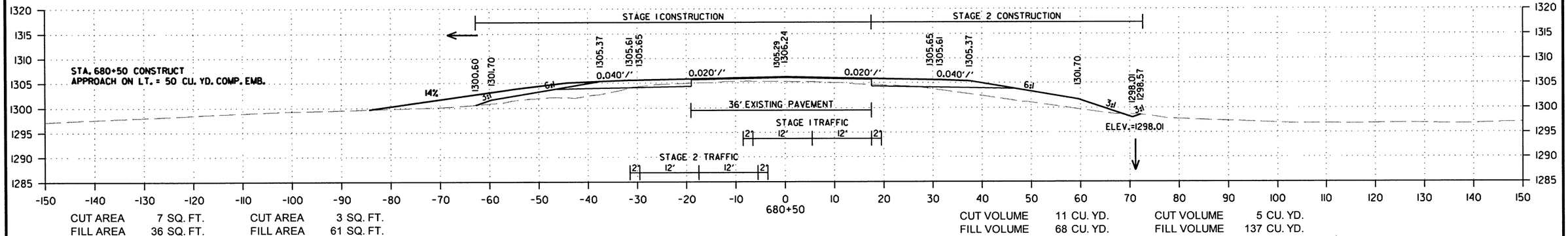
CUT AREA 5 SQ. FT. CUT AREA 3 SQ. FT.
FILL AREA 40 SQ. FT. FILL AREA 61 SQ. FT.

CUT VOLUME 7 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 33 CU. YD. FILL VOLUME 113 CU. YD.



CUT AREA 6 SQ. FT. CUT AREA 4 SQ. FT.
FILL AREA 16 SQ. FT. FILL AREA 52 SQ. FT.

CUT VOLUME 5 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 17 CU. YD. FILL VOLUME 38 CU. YD.



CUT AREA 7 SQ. FT. CUT AREA 3 SQ. FT.
FILL AREA 36 SQ. FT. FILL AREA 61 SQ. FT.

CUT VOLUME 11 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 68 CU. YD. FILL VOLUME 137 CU. YD.

HWY. 65
CROSS SECTION STA. A 680+50 TO STA. A 681+00

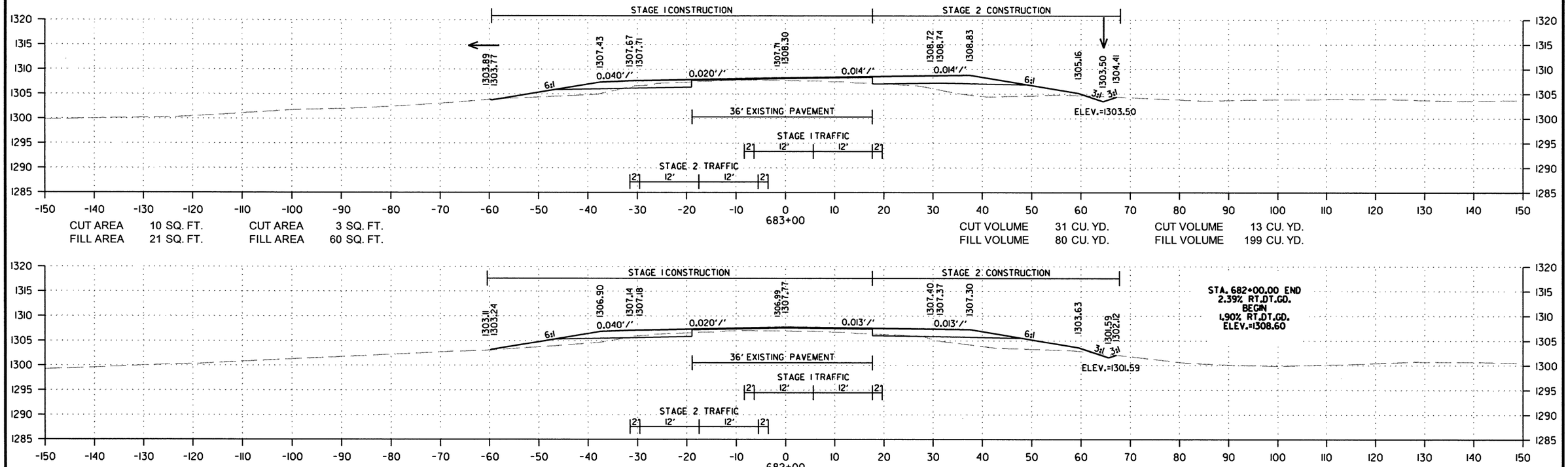
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	405	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



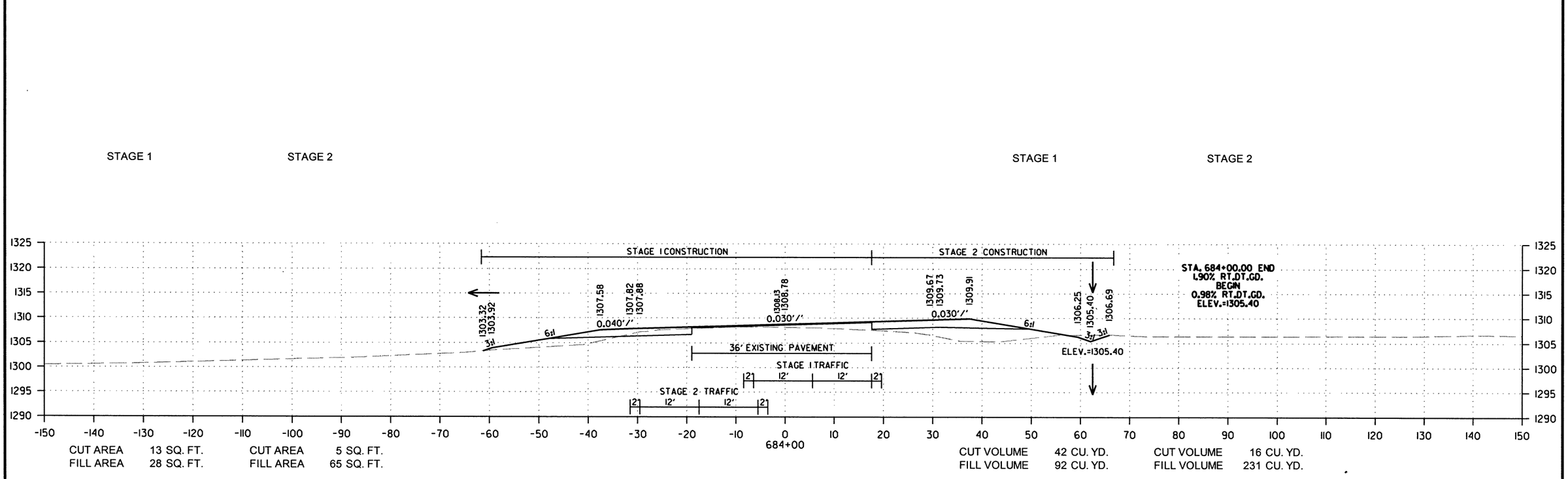
HWY. 65
CROSS SECTION STA. A 681+65 TO STA. A 683+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	406	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. A 684+00 TO STA. A 684+00

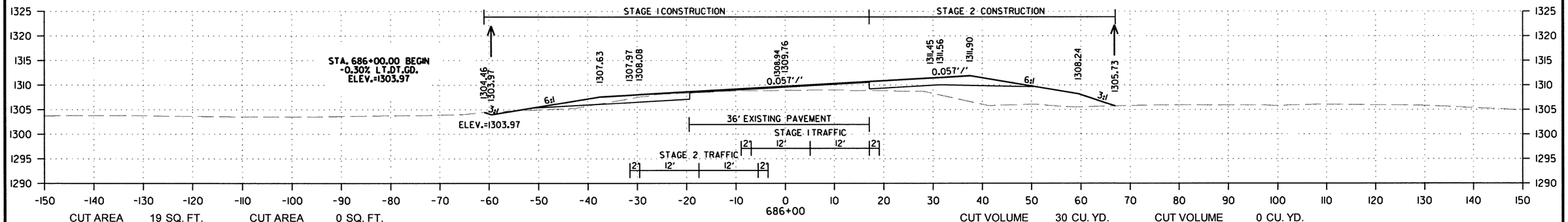
11/13/2018

RCA0801.DGN

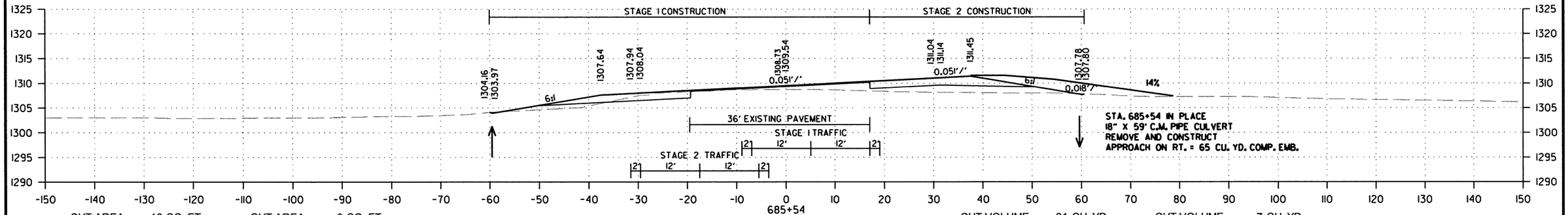
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	407	605

(2) CROSS SECTIONS

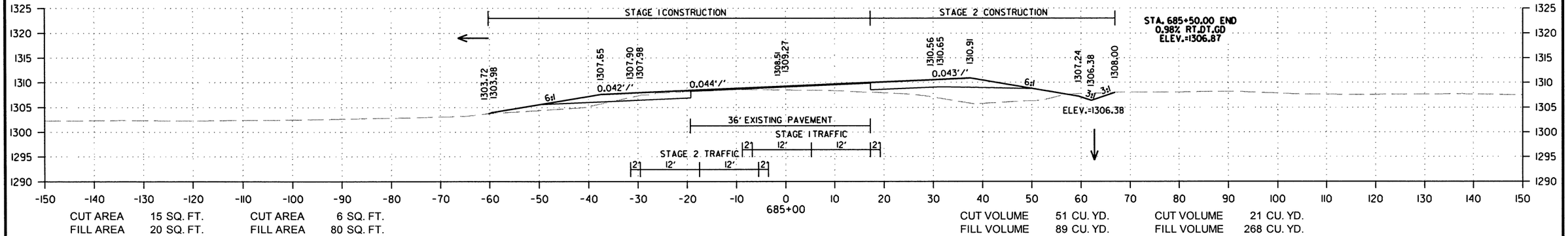
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 19 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 30 CU. YD. CUT VOLUME 0 CU. YD.
FILL AREA 6 SQ. FT. FILL AREA 118 SQ. FT. FILL VOLUME 16 CU. YD. FILL VOLUME 140 CU. YD.



CUT AREA 16 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 31 CU. YD. CUT VOLUME 7 CU. YD.
FILL AREA 12 SQ. FT. FILL AREA 46 SQ. FT. FILL VOLUME 32 CU. YD. FILL VOLUME 126 CU. YD.



CUT AREA 15 SQ. FT. CUT AREA 6 SQ. FT. CUT VOLUME 51 CU. YD. CUT VOLUME 21 CU. YD.
FILL AREA 20 SQ. FT. FILL AREA 80 SQ. FT. FILL VOLUME 89 CU. YD. FILL VOLUME 268 CU. YD.

HWY. 65
CROSS SECTION STA. 685+00 TO STA. 686+00

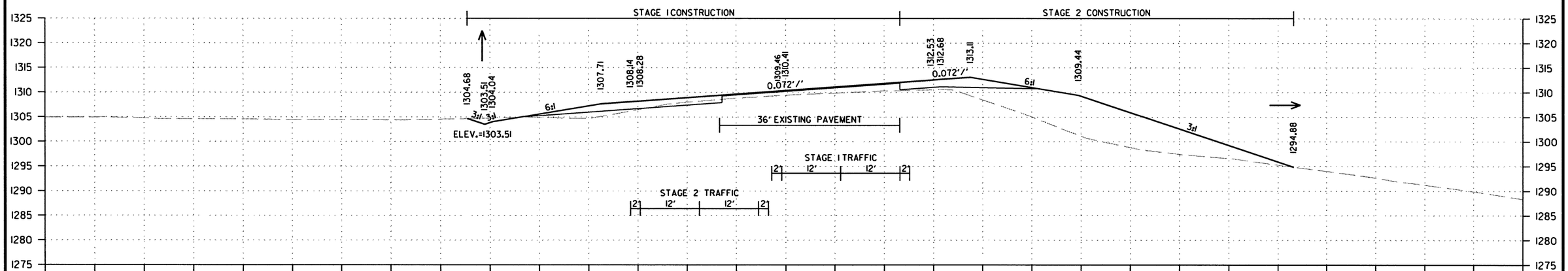
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	408	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

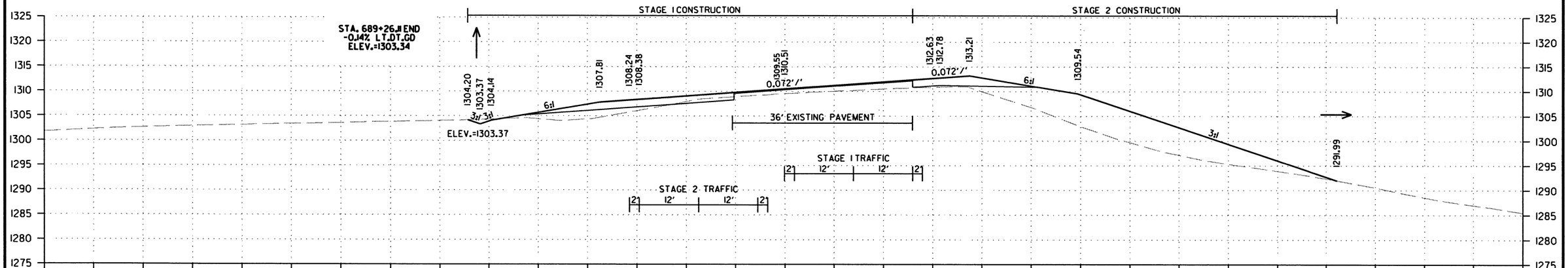
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 687+00 TO STA. 688+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	409	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



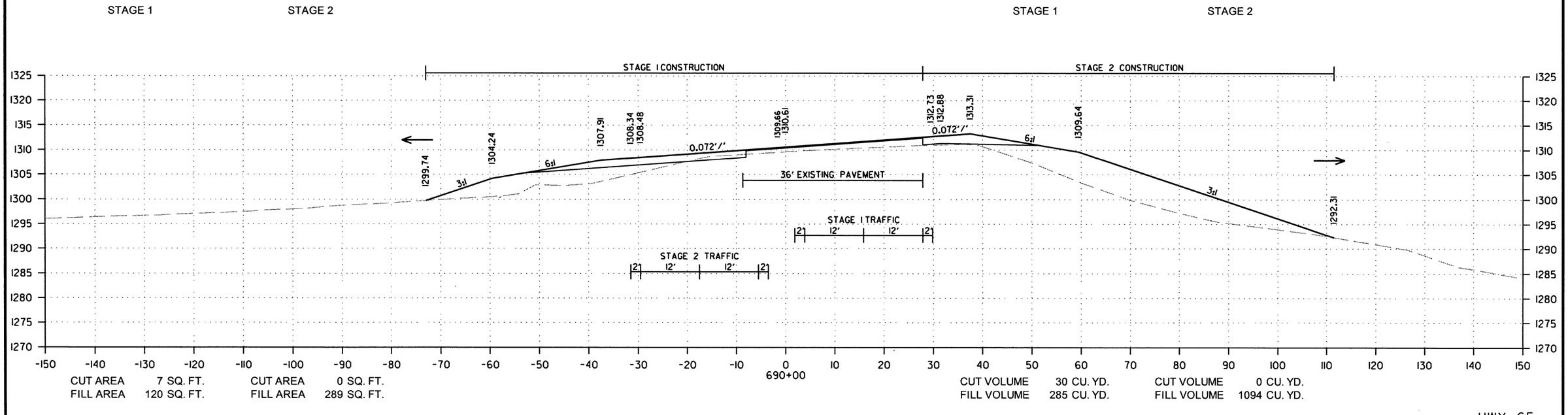
HWY. 65
CROSS SECTION STA. 688+37 TO STA. 689+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	410	605

(2) CROSS SECTIONS



CUT AREA 7 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 120 SQ. FT. FILL AREA 289 SQ. FT.

CUT VOLUME 30 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 285 CU. YD. FILL VOLUME 1094 CU. YD.

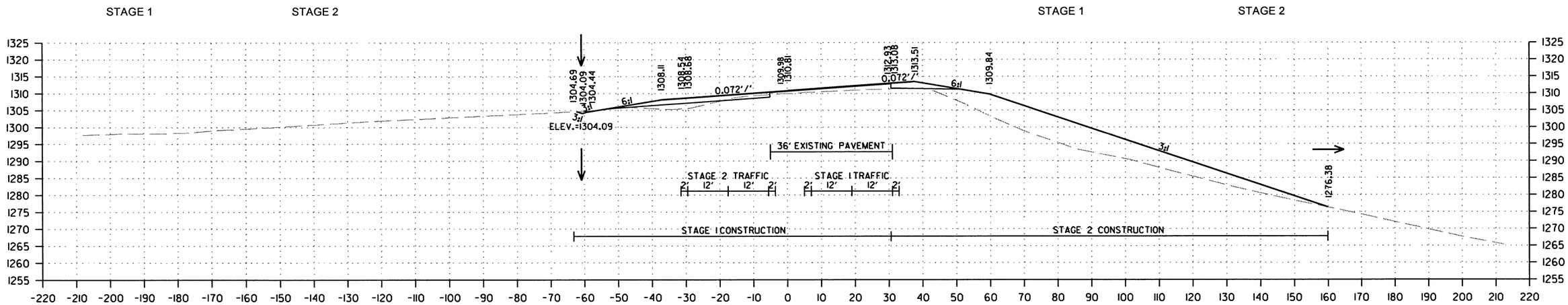
HWY. 65
CROSS SECTION STA. 690+00 TO STA. 690+00

11/13/2018

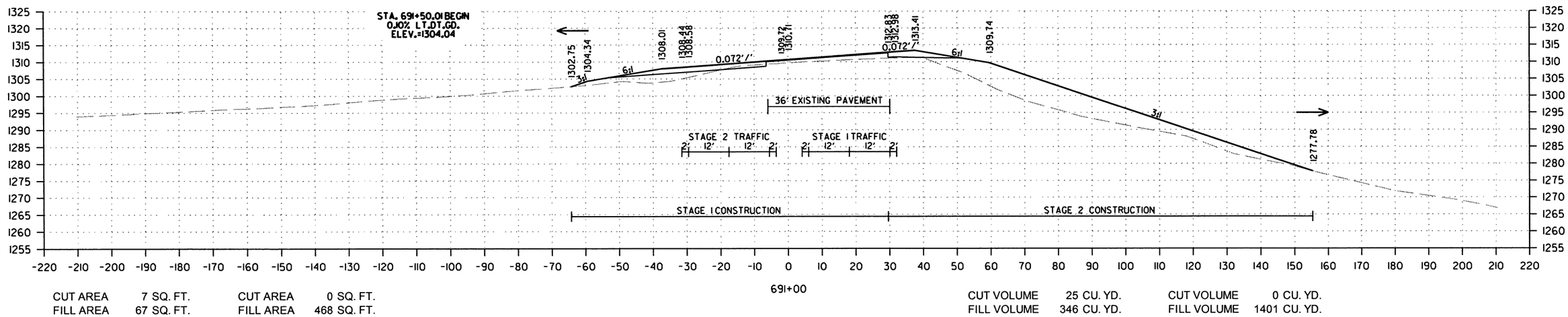
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	411	605

(2) CROSS SECTIONS



CUT AREA	11 SQ. FT.	CUT AREA	0 SQ. FT.	692+00	CUT VOLUME	32 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	27 SQ. FT.	FILL AREA	537 SQ. FT.		FILL VOLUME	175 CU. YD.	FILL VOLUME	1861 CU. YD.



CUT AREA	7 SQ. FT.	CUT AREA	0 SQ. FT.	691+00	CUT VOLUME	25 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	67 SQ. FT.	FILL AREA	468 SQ. FT.		FILL VOLUME	346 CU. YD.	FILL VOLUME	1401 CU. YD.

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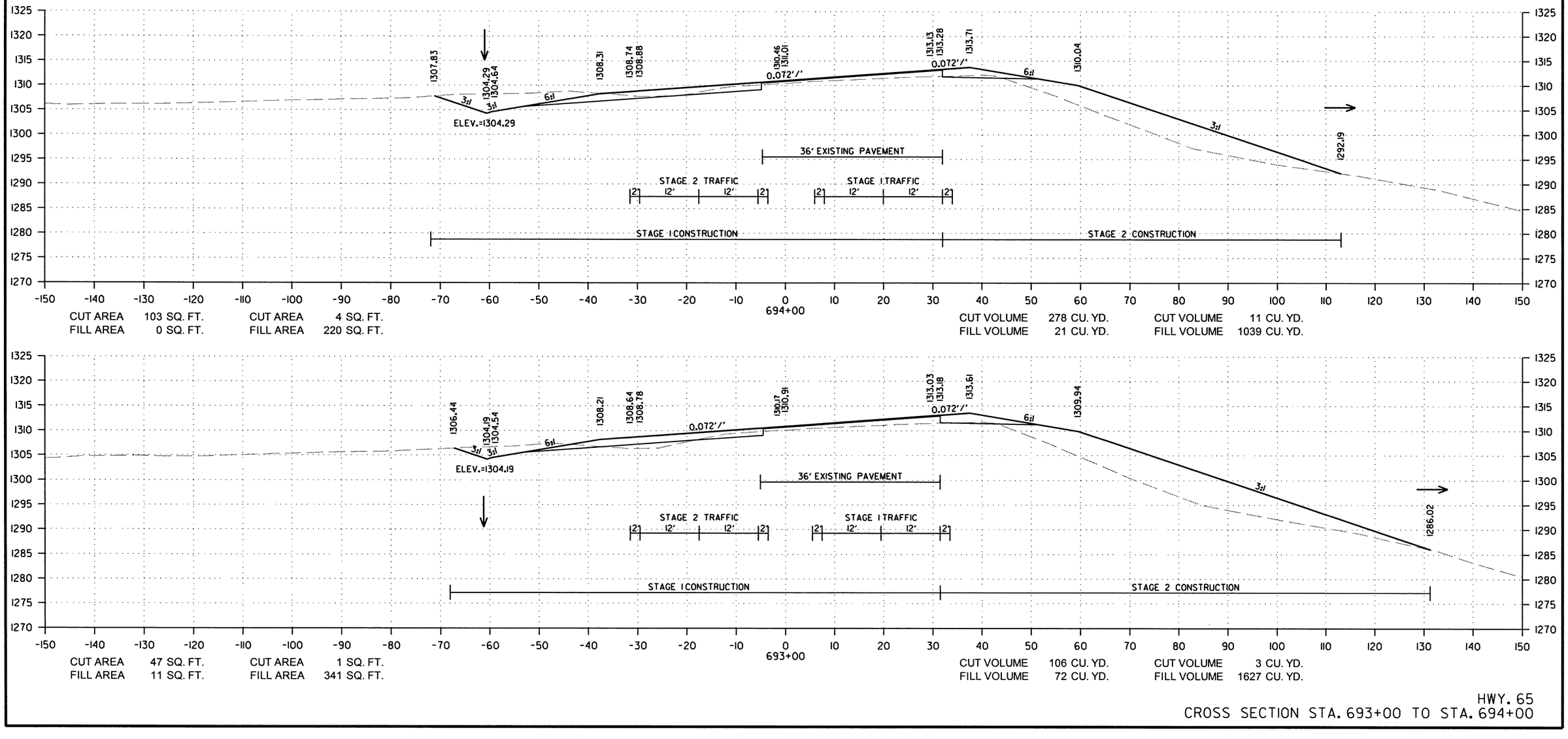
HWY. 65
CROSS SECTION STA. 691+00 TO STA. 692+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	412	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



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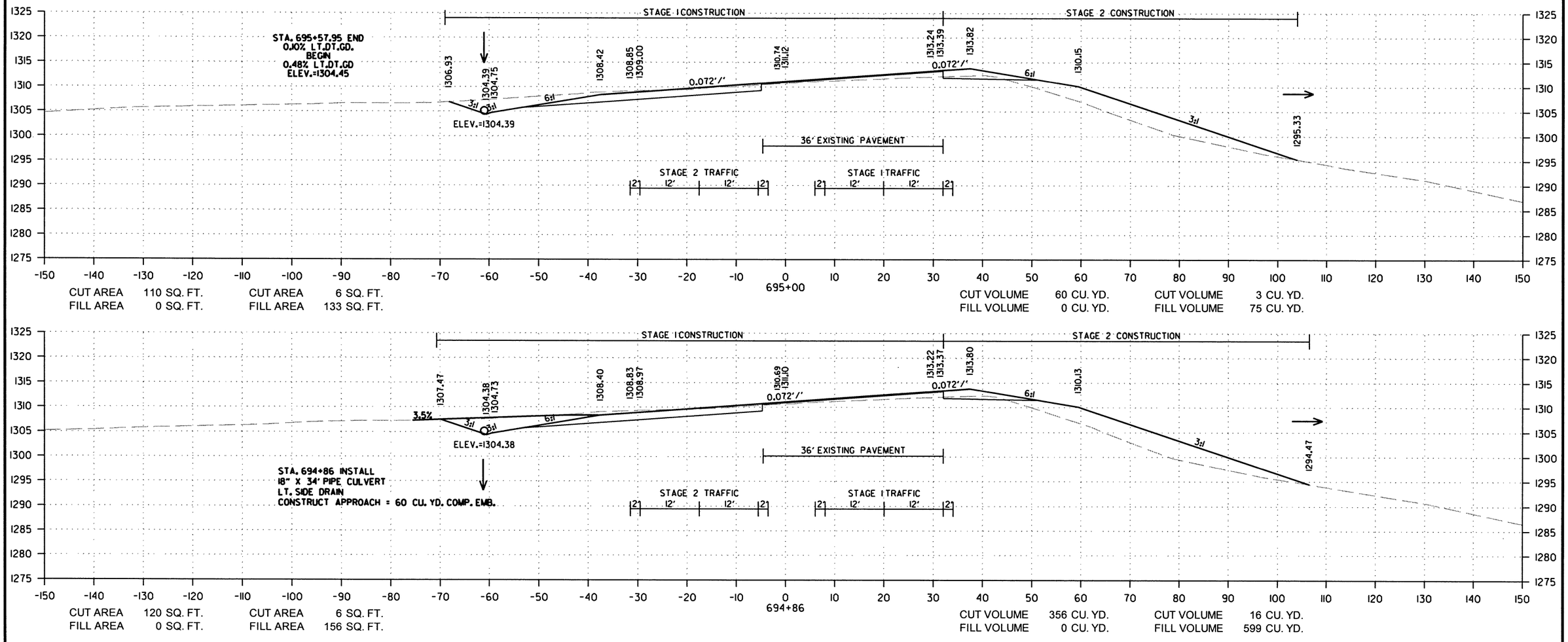
HWY. 65
CROSS SECTION STA. 693+00 TO STA. 694+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	413	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 694+86 TO STA. 695+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	414	605

(2) CROSS SECTIONS

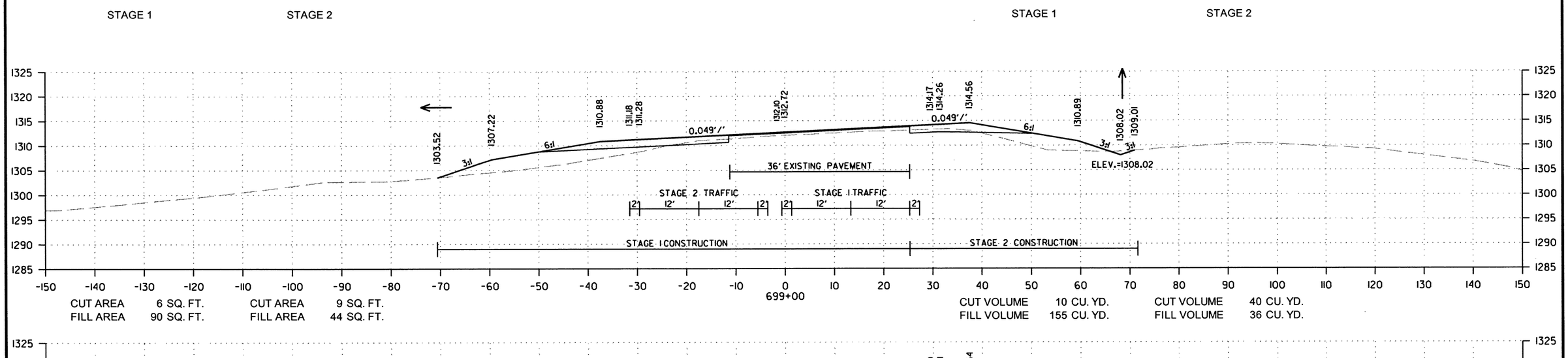
HWY. 65
CROSS SECTION STA. 696+00 TO STA. 697+10

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	415	605

(2) CROSS SECTIONS



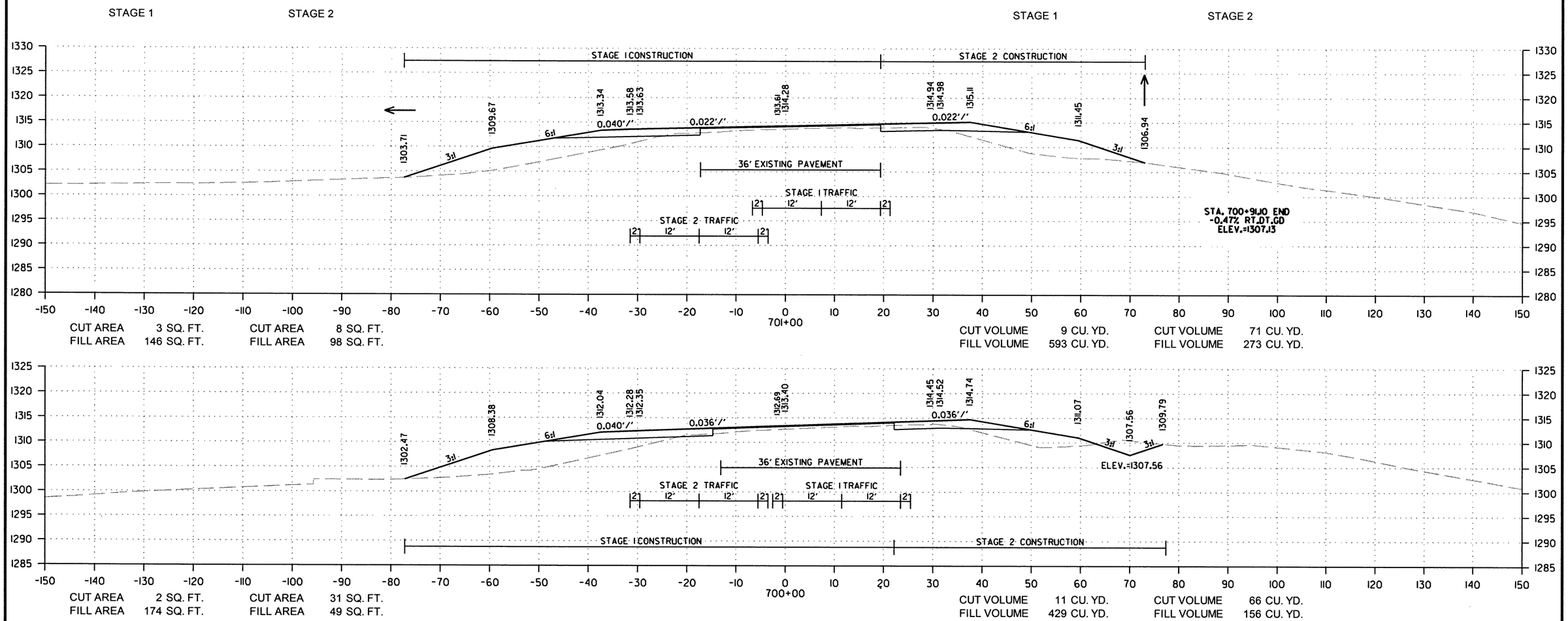
HWY. 65
CROSS SECTION STA. 698+00 TO STA. 699+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	416	605

(2) CROSS SECTIONS



11/13/2018

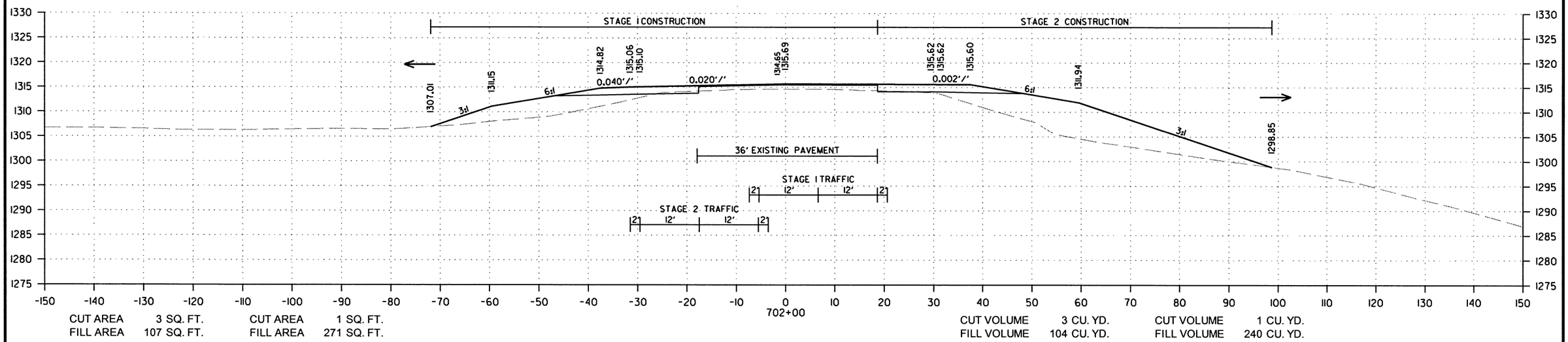
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 699+14 TO STA. 701+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	417	605

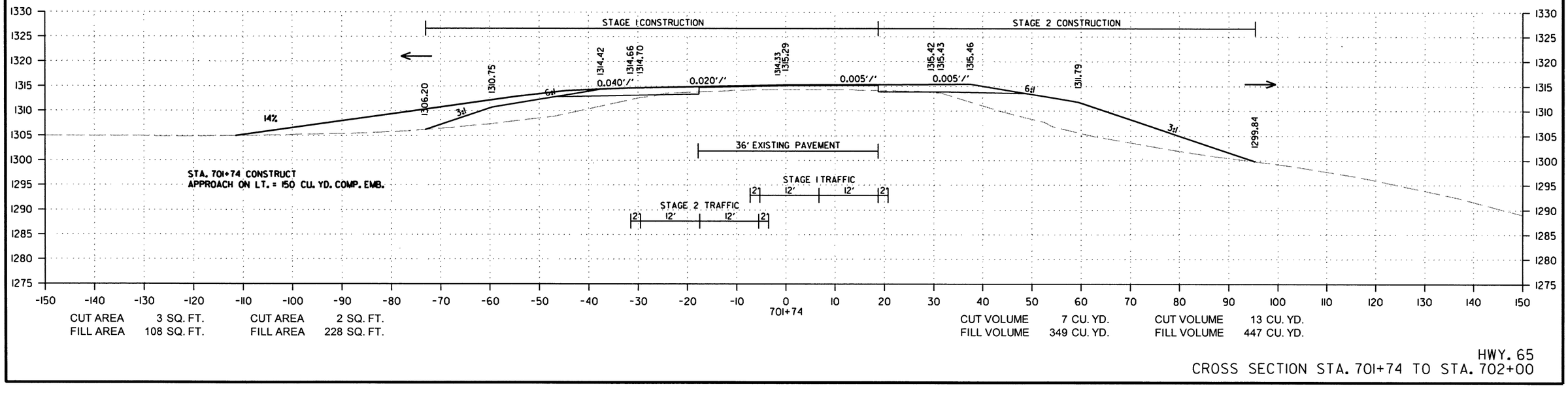
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 3 SQ. FT. CUT AREA 1 SQ. FT.
FILL AREA 107 SQ. FT. FILL AREA 271 SQ. FT.

CUT VOLUME 3 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 104 CU. YD. FILL VOLUME 240 CU. YD.



CUT AREA 3 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 108 SQ. FT. FILL AREA 228 SQ. FT.

CUT VOLUME 7 CU. YD. CUT VOLUME 13 CU. YD.
FILL VOLUME 349 CU. YD. FILL VOLUME 447 CU. YD.

HWY. 65
CROSS SECTION STA. 701+74 TO STA. 702+00

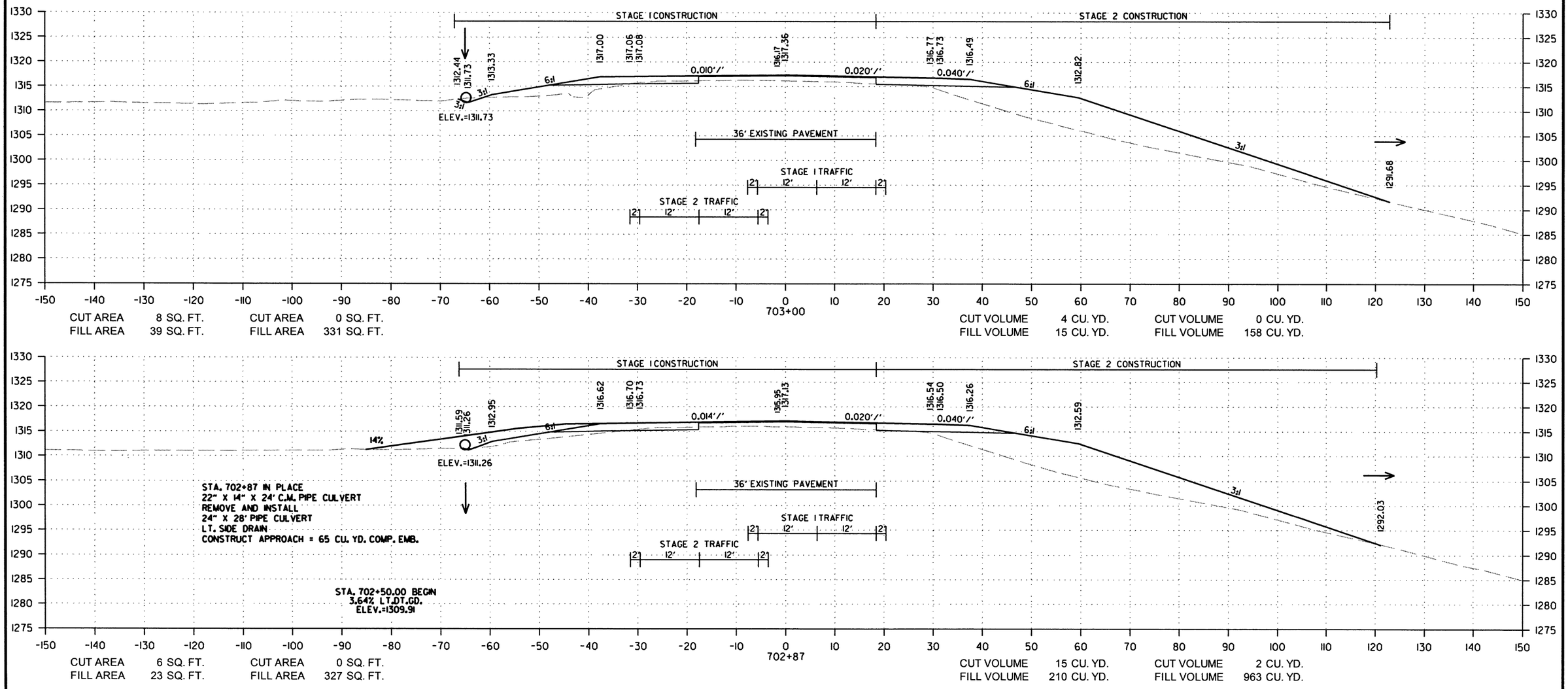
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	418	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 702+87 TO STA. 703+00

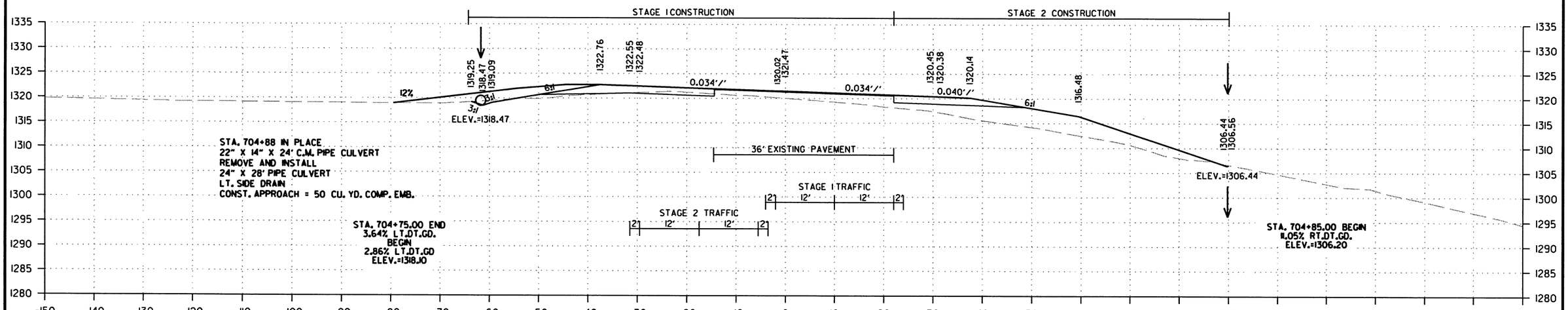
11/13/2018

RCA0801.DGN

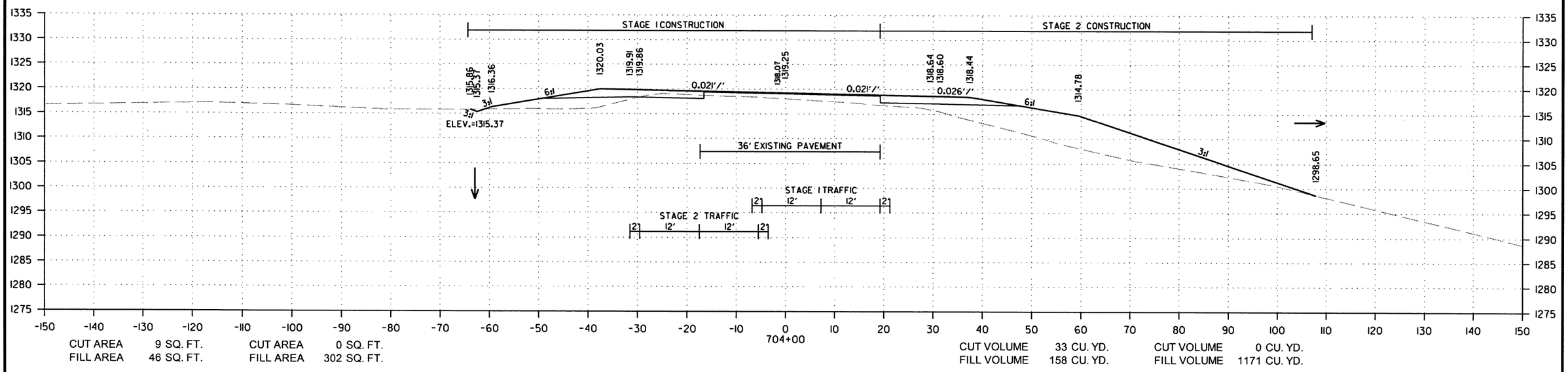
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	419	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	11 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	33 CU. YD.	CUT VOLUME	1 CU. YD.
FILL AREA	7 SQ. FT.	FILL AREA	165 SQ. FT.	FILL VOLUME	86 CU. YD.	FILL VOLUME	761 CU. YD.



CUT AREA	9 SQ. FT.	CUT AREA	0 SQ. FT.	CUT VOLUME	33 CU. YD.	CUT VOLUME	0 CU. YD.
FILL AREA	46 SQ. FT.	FILL AREA	302 SQ. FT.	FILL VOLUME	158 CU. YD.	FILL VOLUME	1171 CU. YD.

HWY. 65
CROSS SECTION STA. 704+00 TO STA. 704+88

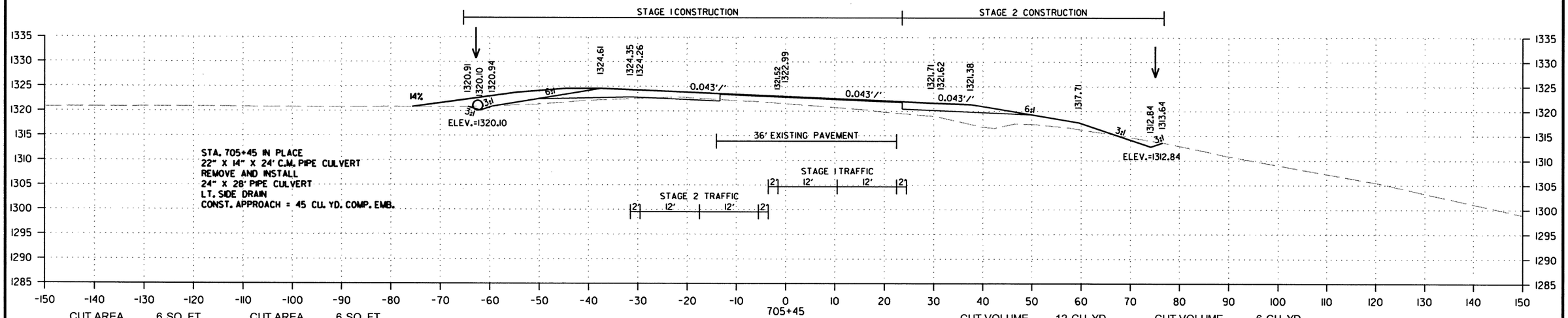
11/13/2018

RCA0801.DGN

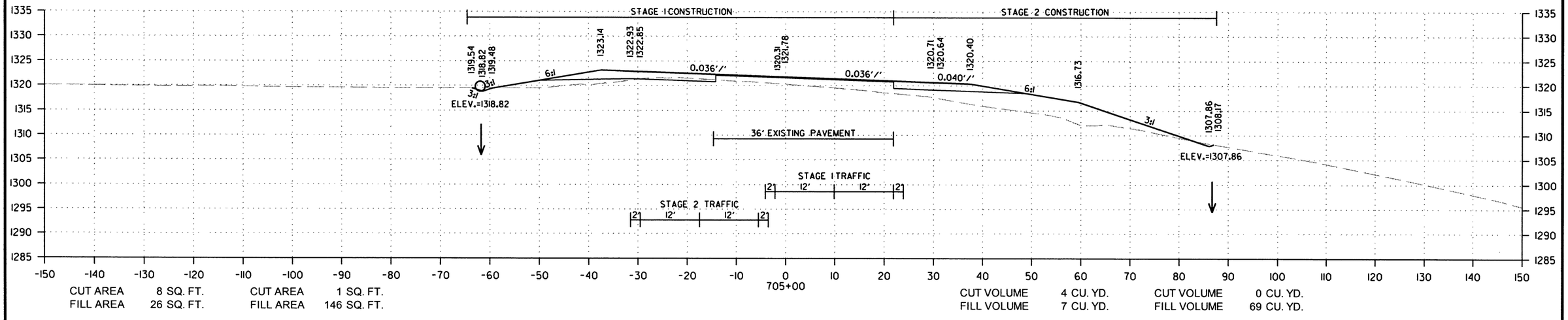
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	420	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	6 SQ. FT.	CUT AREA	6 SQ. FT.
FILL AREA	17 SQ. FT.	FILL AREA	72 SQ. FT.
CUT VOLUME	12 CU. YD.	CUT VOLUME	6 CU. YD.
FILL VOLUME	36 CU. YD.	FILL VOLUME	182 CU. YD.



CUT AREA	8 SQ. FT.	CUT AREA	1 SQ. FT.
FILL AREA	26 SQ. FT.	FILL AREA	146 SQ. FT.
CUT VOLUME	4 CU. YD.	CUT VOLUME	0 CU. YD.
FILL VOLUME	7 CU. YD.	FILL VOLUME	69 CU. YD.

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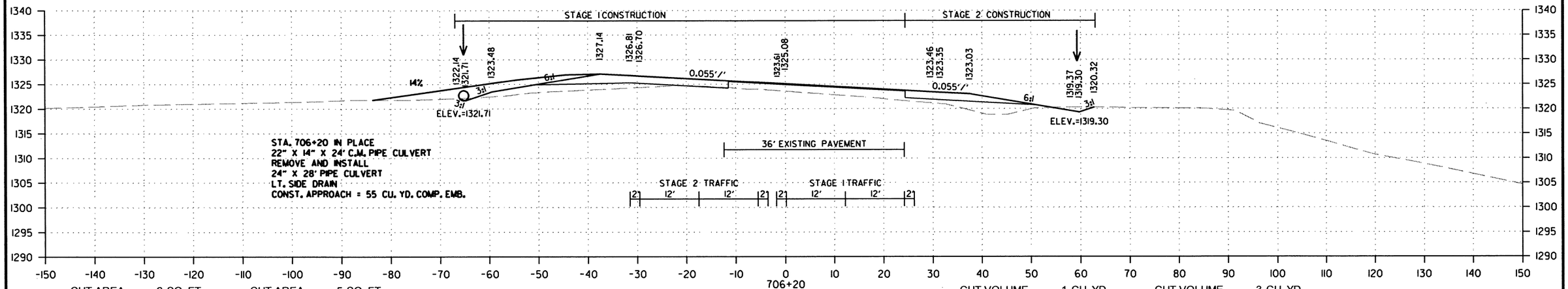
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 705+00 TO STA. 705+45

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	421	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



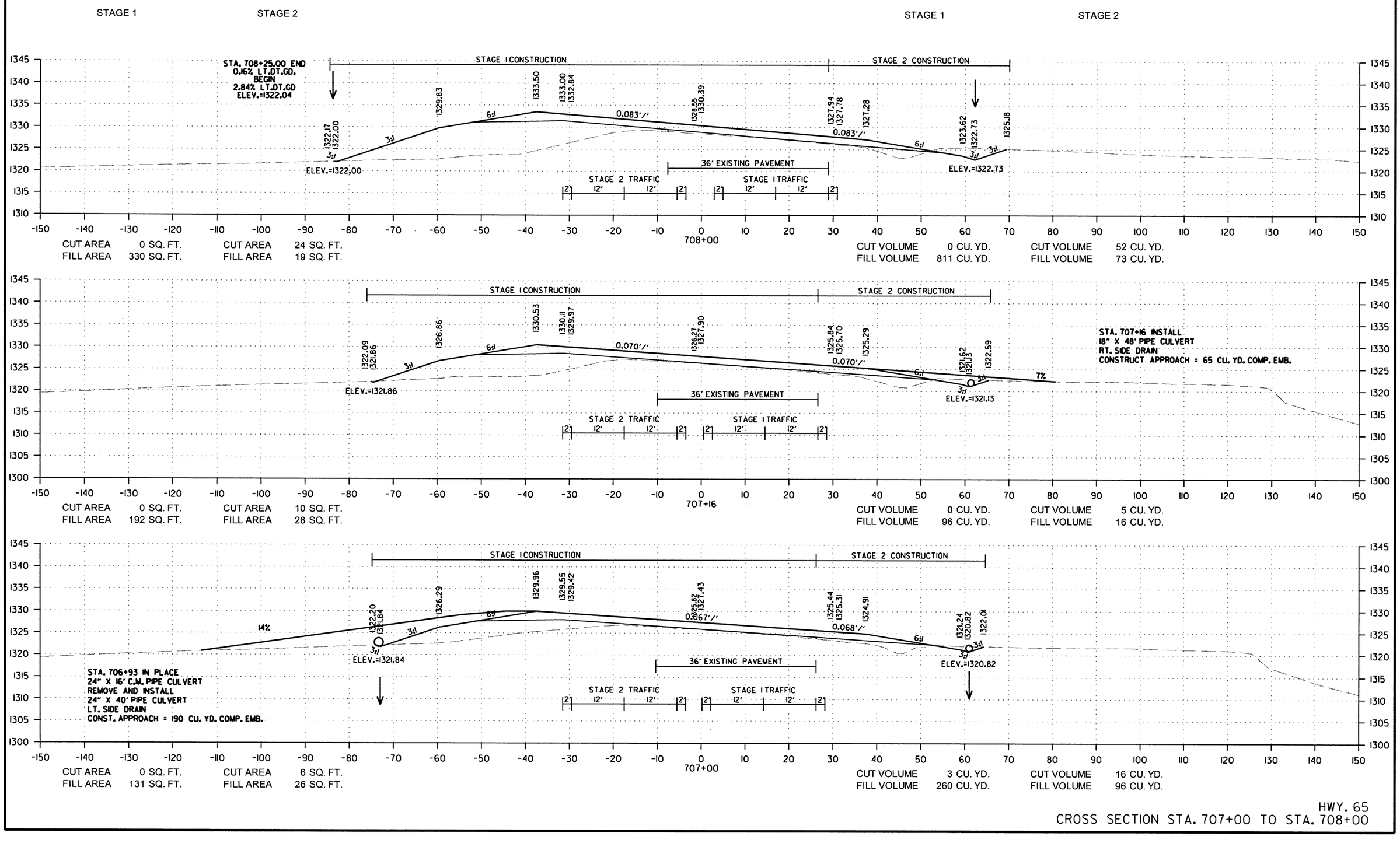
HWY. 65
CROSS SECTION STA. 706+00 TO STA. 706+20

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	422	605

(2) CROSS SECTIONS



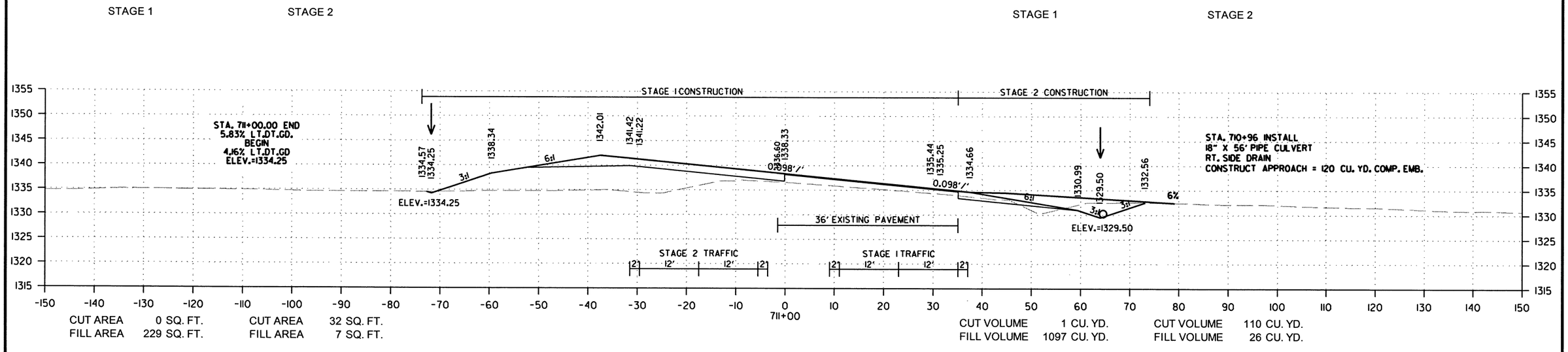
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 707+00 TO STA. 708+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	423	605

(2) CROSS SECTIONS



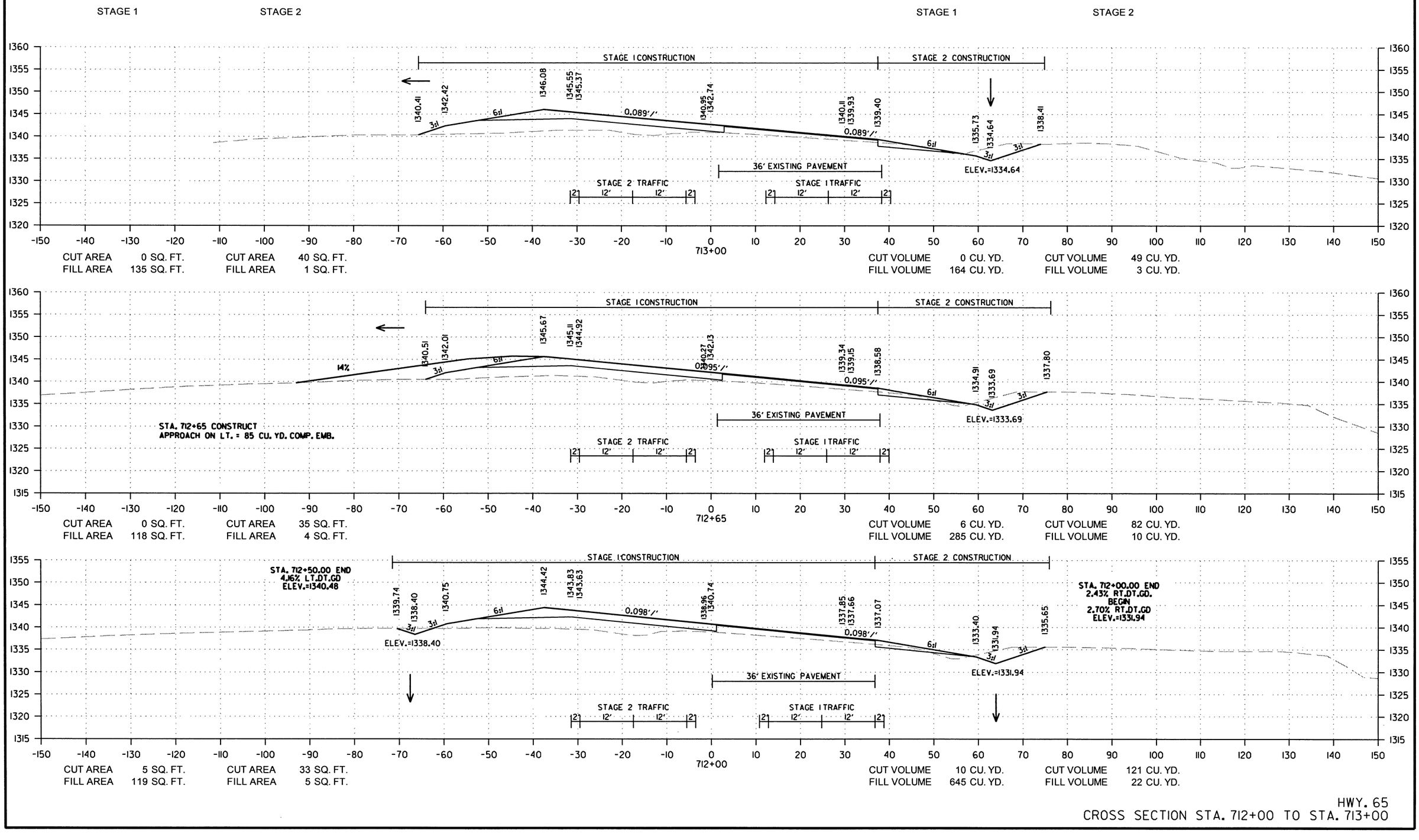
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 709+00 TO STA. 711+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	424	605

(2) CROSS SECTIONS



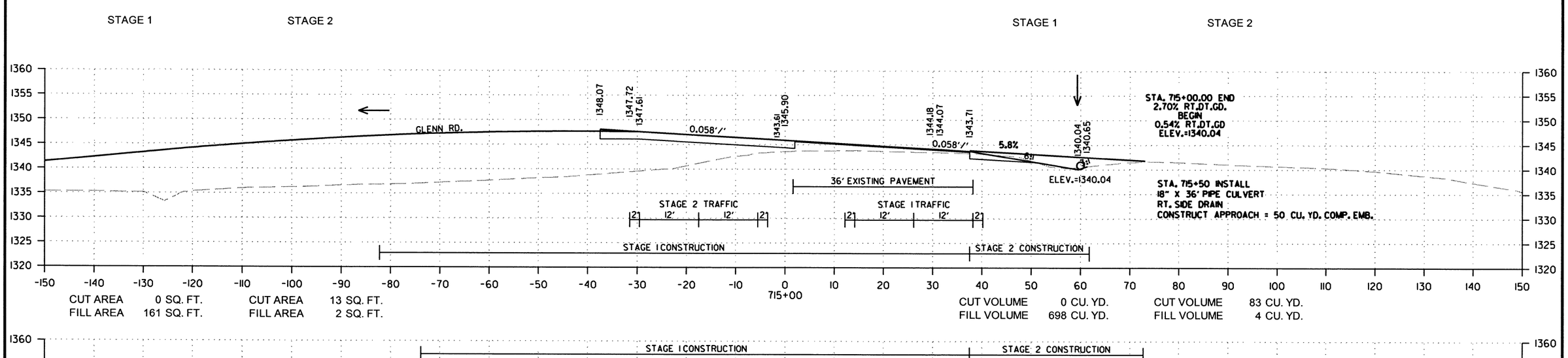
HWY. 65
CROSS SECTION STA. 712+00 TO STA. 713+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	425	605

(2) CROSS SECTIONS



11/13/2018

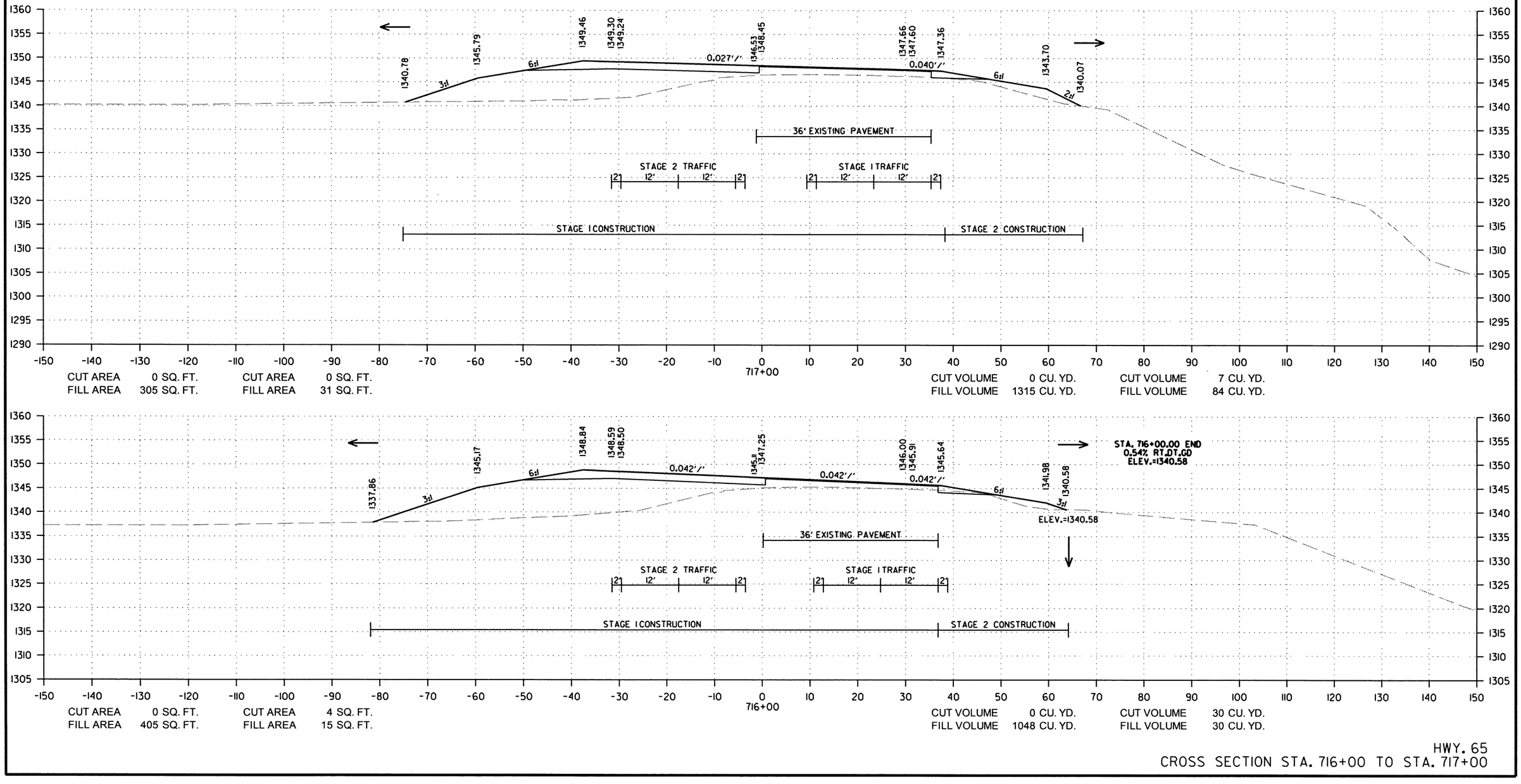
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 713+40 TO STA. 715+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	426	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



717+00

CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 305 SQ. FT. FILL AREA 31 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 7 CU. YD.
FILL VOLUME 1315 CU. YD. FILL VOLUME 84 CU. YD.

716+00

CUT AREA 0 SQ. FT. CUT AREA 4 SQ. FT.
FILL AREA 405 SQ. FT. FILL AREA 15 SQ. FT.

CUT VOLUME 0 CU. YD. CUT VOLUME 30 CU. YD.
FILL VOLUME 1048 CU. YD. FILL VOLUME 30 CU. YD.

HWY. 65
CROSS SECTION STA. 716+00 TO STA. 717+00

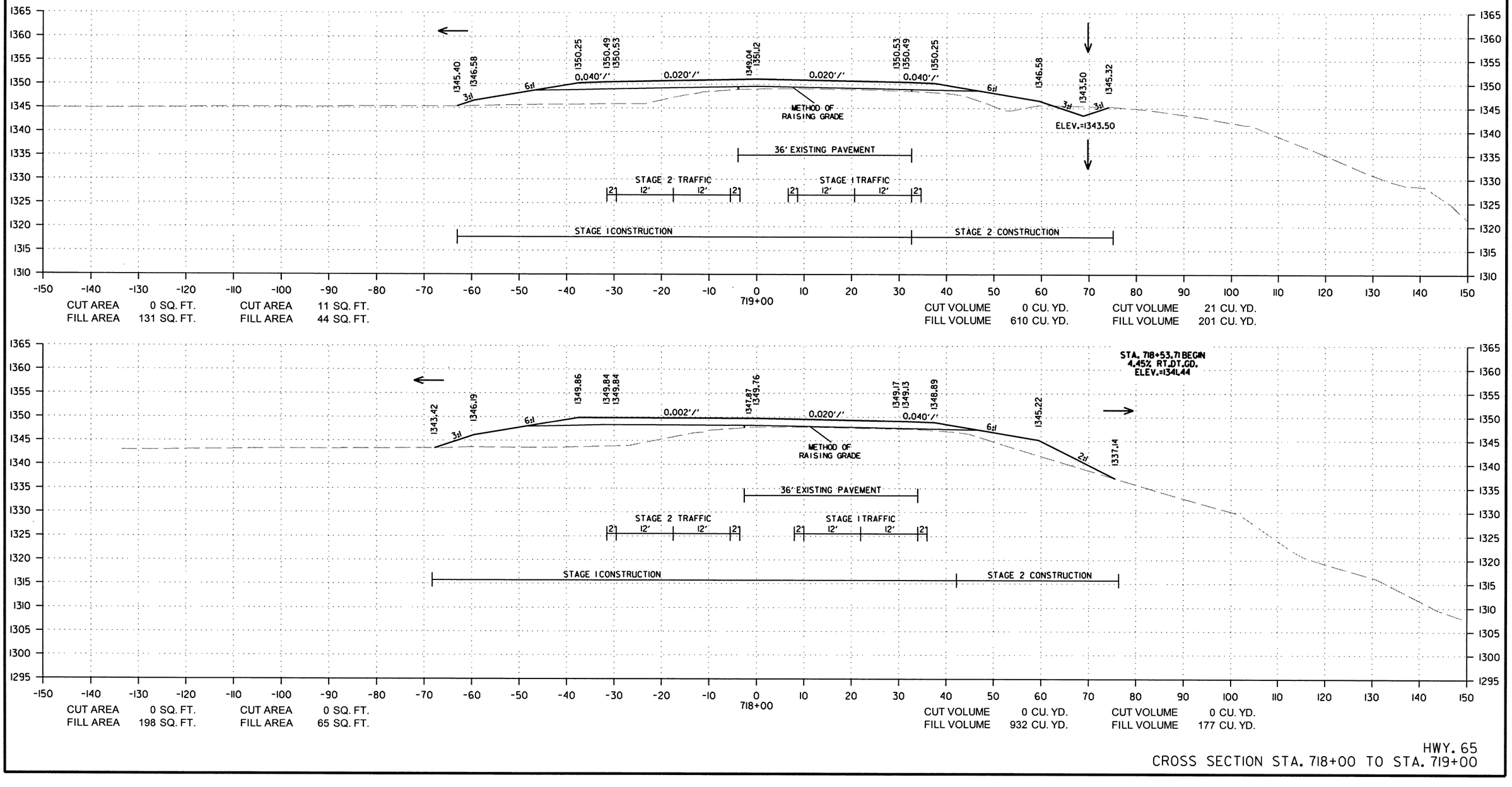
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	427	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



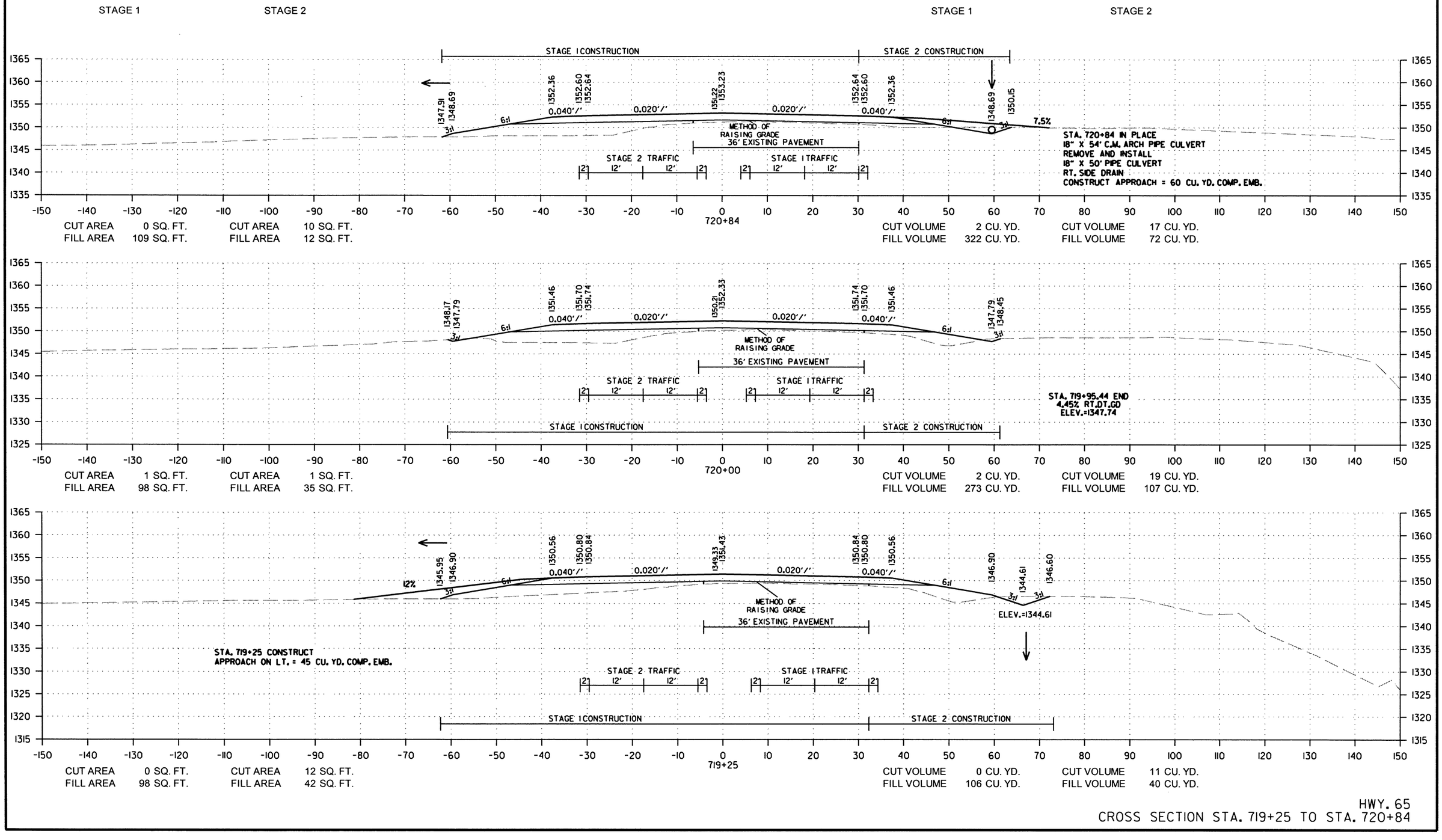
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 718+00 TO STA. 719+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	428	605

(2) CROSS SECTIONS



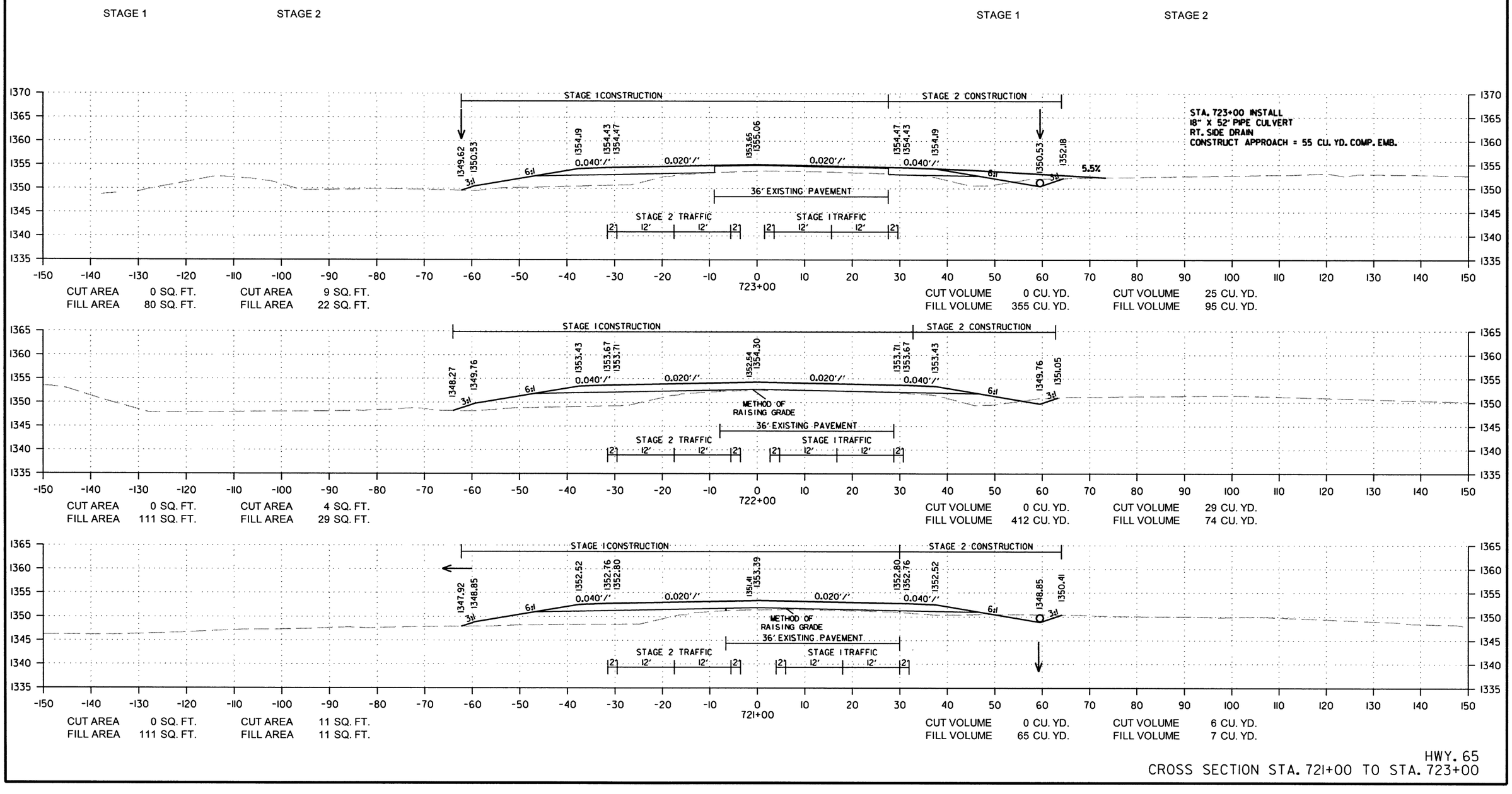
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 719+25 TO STA. 720+84

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	429	605

(2) CROSS SECTIONS



11/13/2018

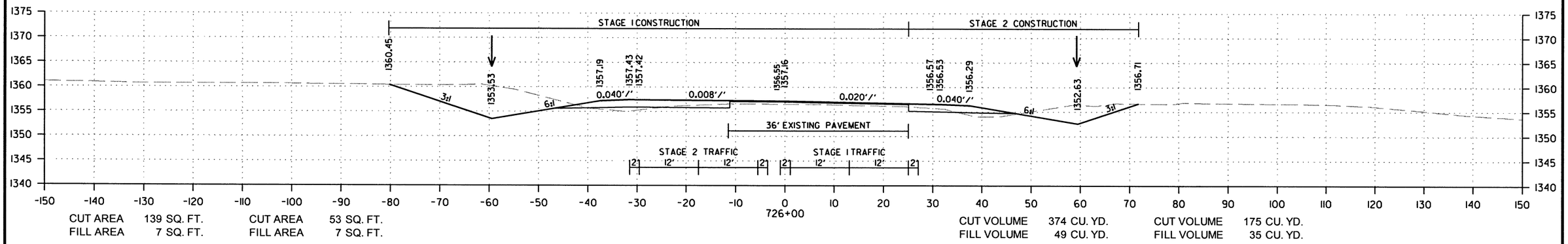
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 721+00 TO STA. 723+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	430	605

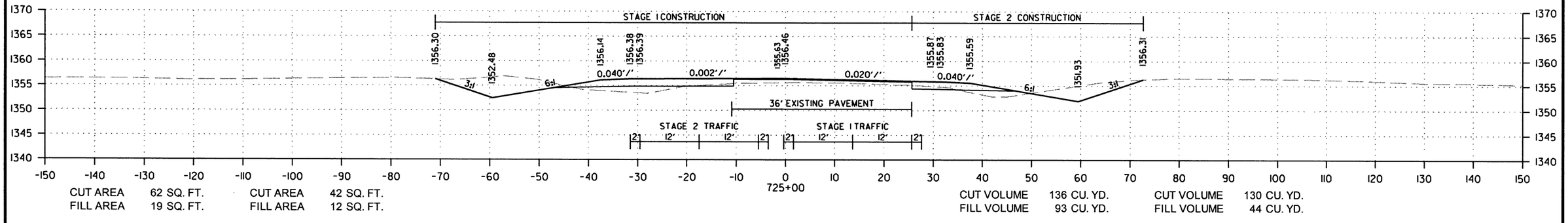
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



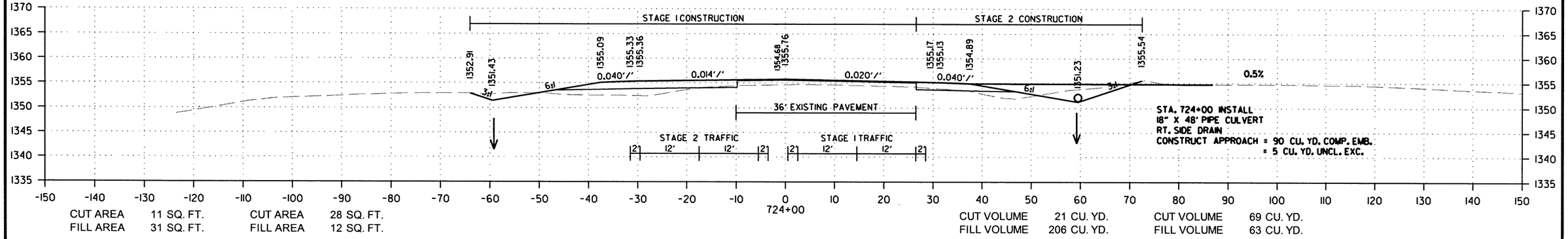
CUT AREA 139 SQ. FT. CUT AREA 53 SQ. FT.
FILL AREA 7 SQ. FT. FILL AREA 7 SQ. FT.

CUT VOLUME 374 CU. YD. CUT VOLUME 175 CU. YD.
FILL VOLUME 49 CU. YD. FILL VOLUME 35 CU. YD.



CUT AREA 62 SQ. FT. CUT AREA 42 SQ. FT.
FILL AREA 19 SQ. FT. FILL AREA 12 SQ. FT.

CUT VOLUME 136 CU. YD. CUT VOLUME 130 CU. YD.
FILL VOLUME 93 CU. YD. FILL VOLUME 44 CU. YD.



CUT AREA 11 SQ. FT. CUT AREA 28 SQ. FT.
FILL AREA 31 SQ. FT. FILL AREA 12 SQ. FT.

CUT VOLUME 21 CU. YD. CUT VOLUME 69 CU. YD.
FILL VOLUME 206 CU. YD. FILL VOLUME 63 CU. YD.

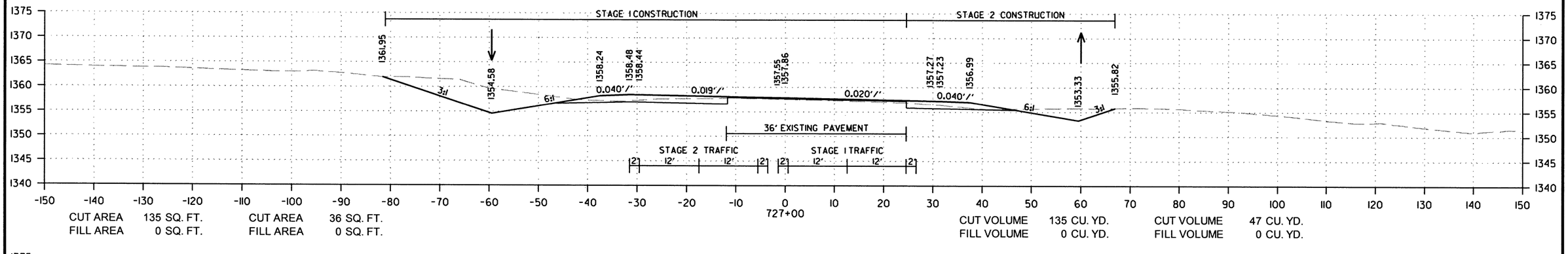
HWY. 65
CROSS SECTION STA. 724+00 TO STA. 726+00

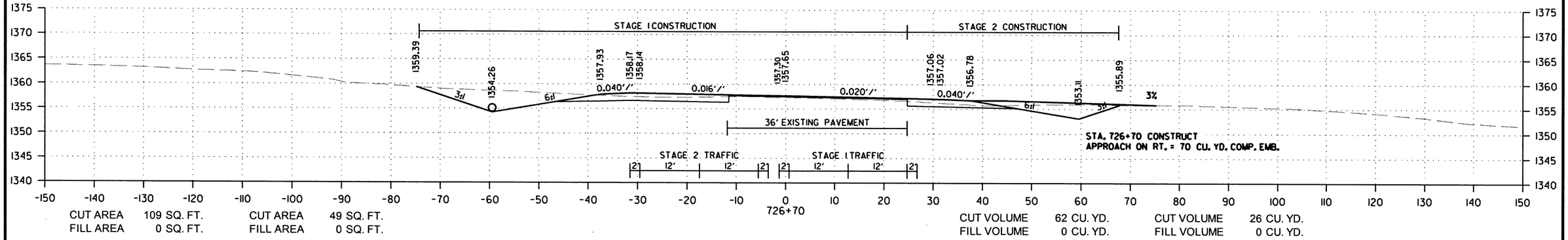
11/13/2018

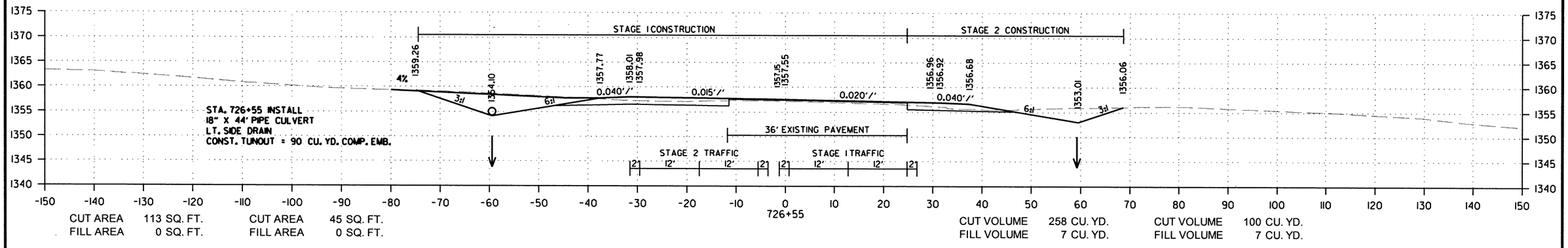
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	431	605

(2) CROSS SECTIONS







HWY. 65
CROSS SECTION STA. 726+55 TO STA. 727+00

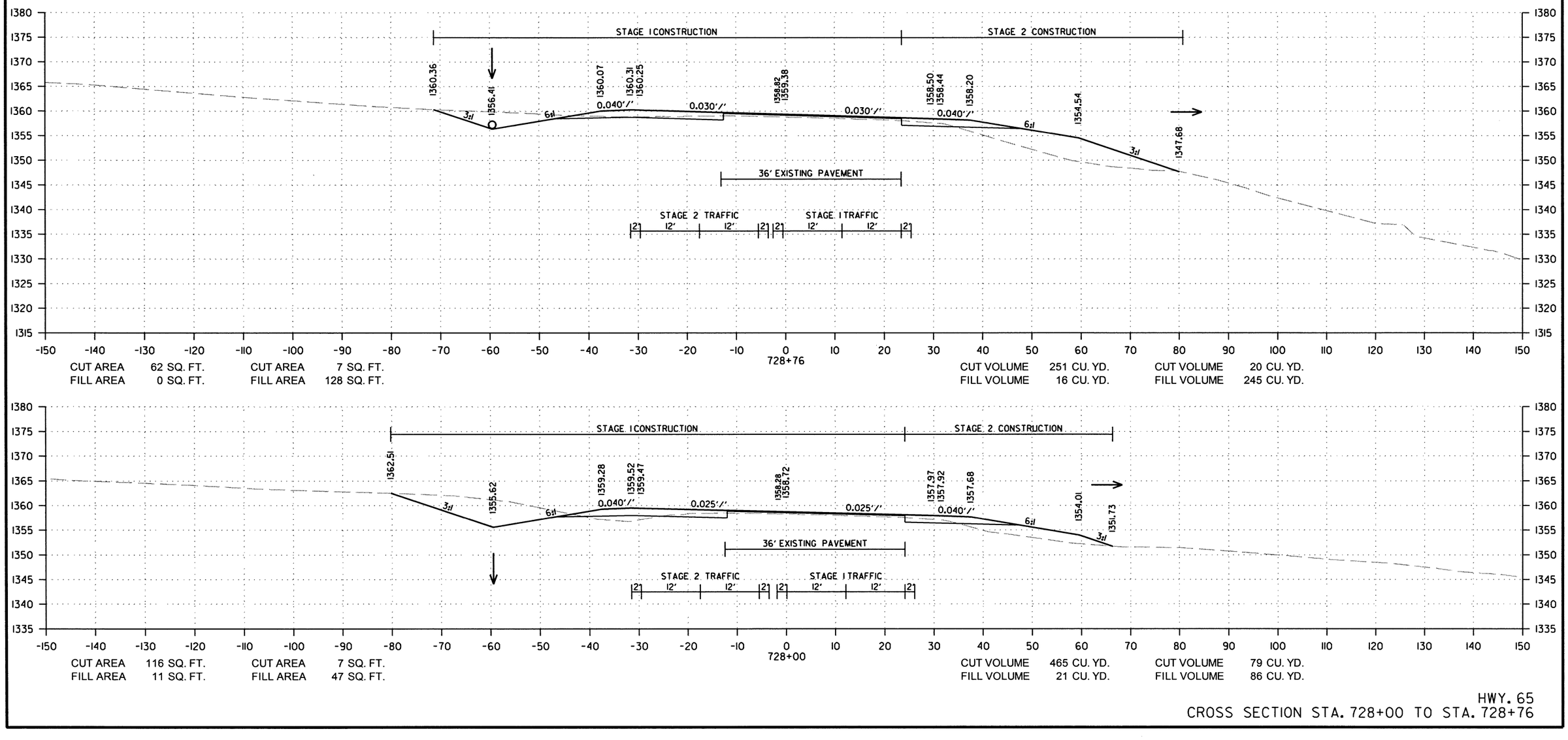
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	432	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

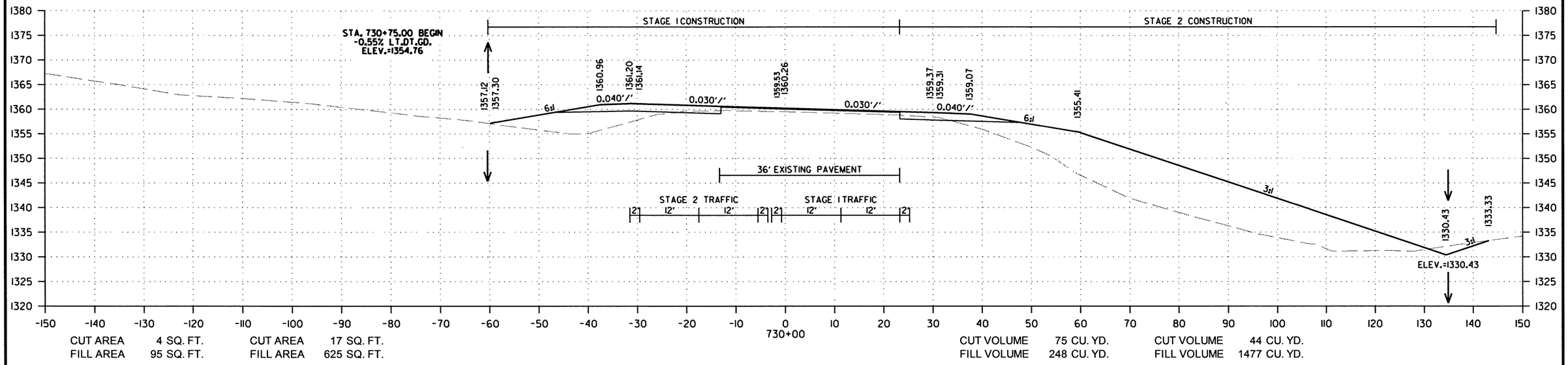
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 728+00 TO STA. 728+76

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	433	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

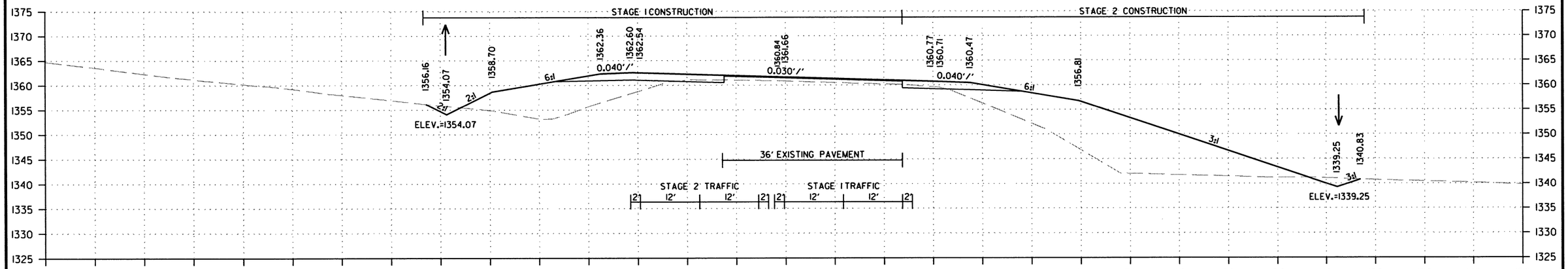
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 729+00 TO STA. 730+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	434	605

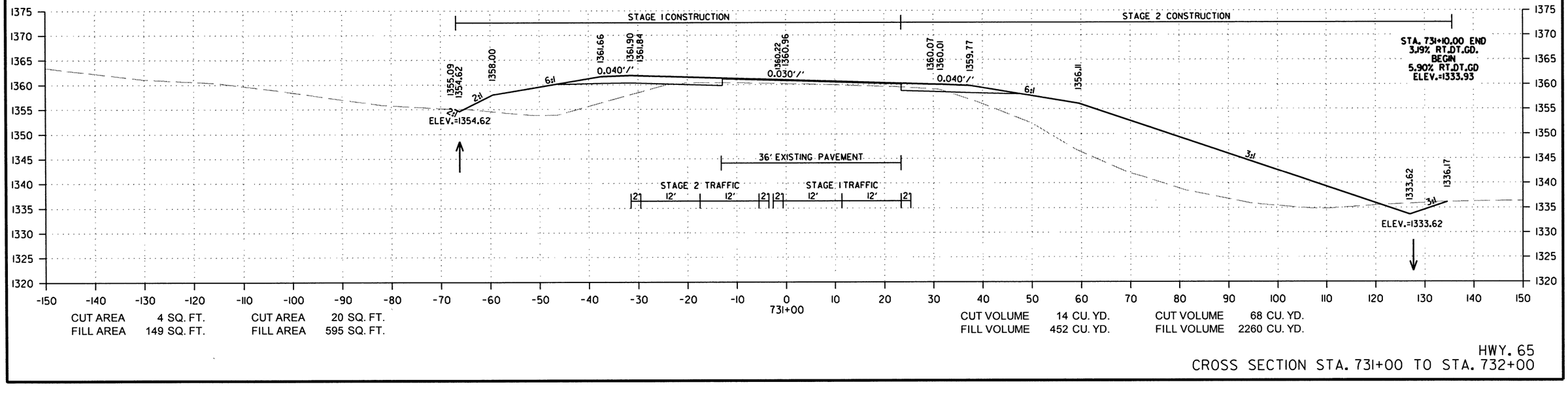
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 10 SQ. FT. CUT AREA 14 SQ. FT.
FILL AREA 177 SQ. FT. FILL AREA 449 SQ. FT.

CUT VOLUME 25 CU. YD. CUT VOLUME 63 CU. YD.
FILL VOLUME 605 CU. YD. FILL VOLUME 1935 CU. YD.



CUT AREA 4 SQ. FT. CUT AREA 20 SQ. FT.
FILL AREA 149 SQ. FT. FILL AREA 595 SQ. FT.

CUT VOLUME 14 CU. YD. CUT VOLUME 68 CU. YD.
FILL VOLUME 452 CU. YD. FILL VOLUME 2260 CU. YD.

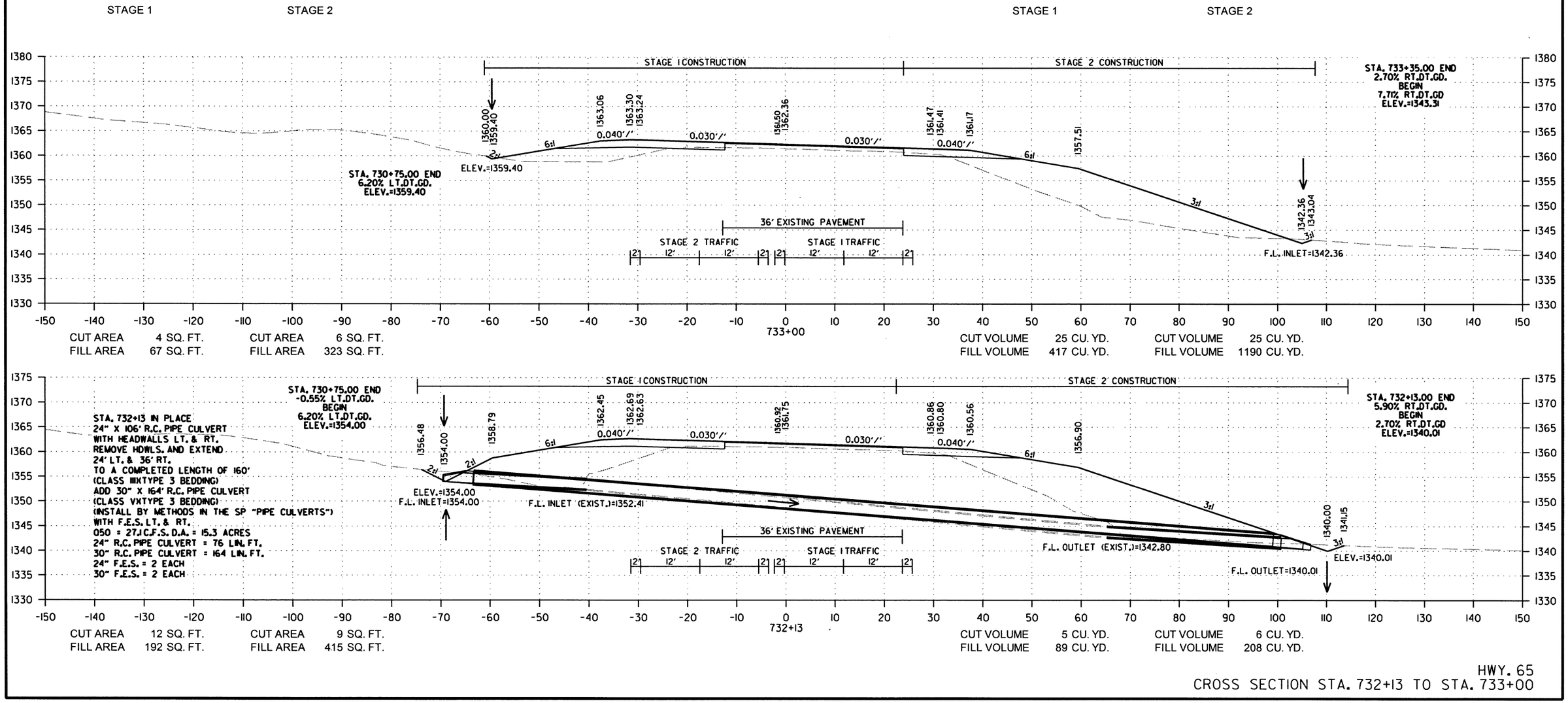
HWY. 65
CROSS SECTION STA. 731+00 TO STA. 732+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	435	605

(2) CROSS SECTIONS



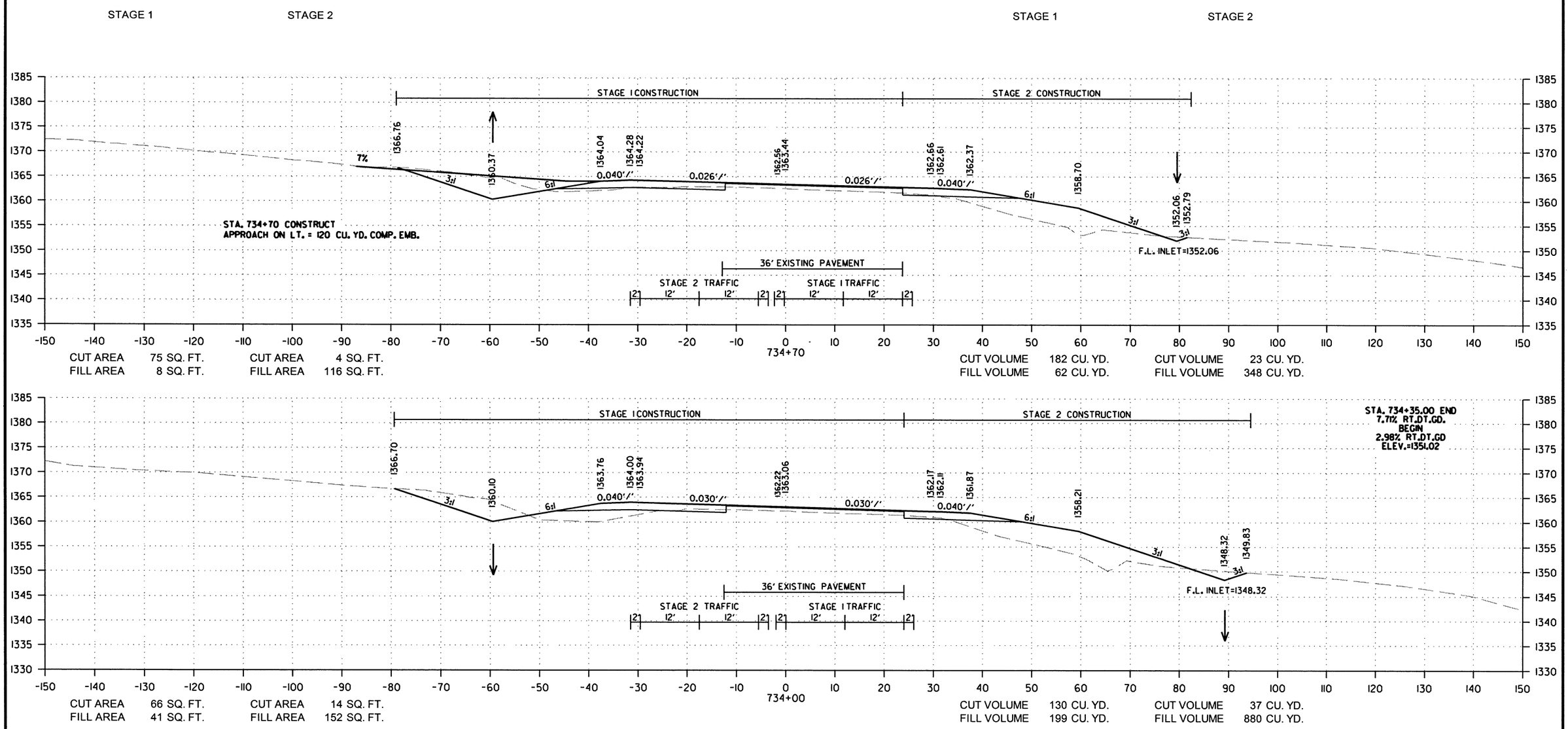
HWY. 65
CROSS SECTION STA. 732+13 TO STA. 733+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	436	605

(2) CROSS SECTIONS



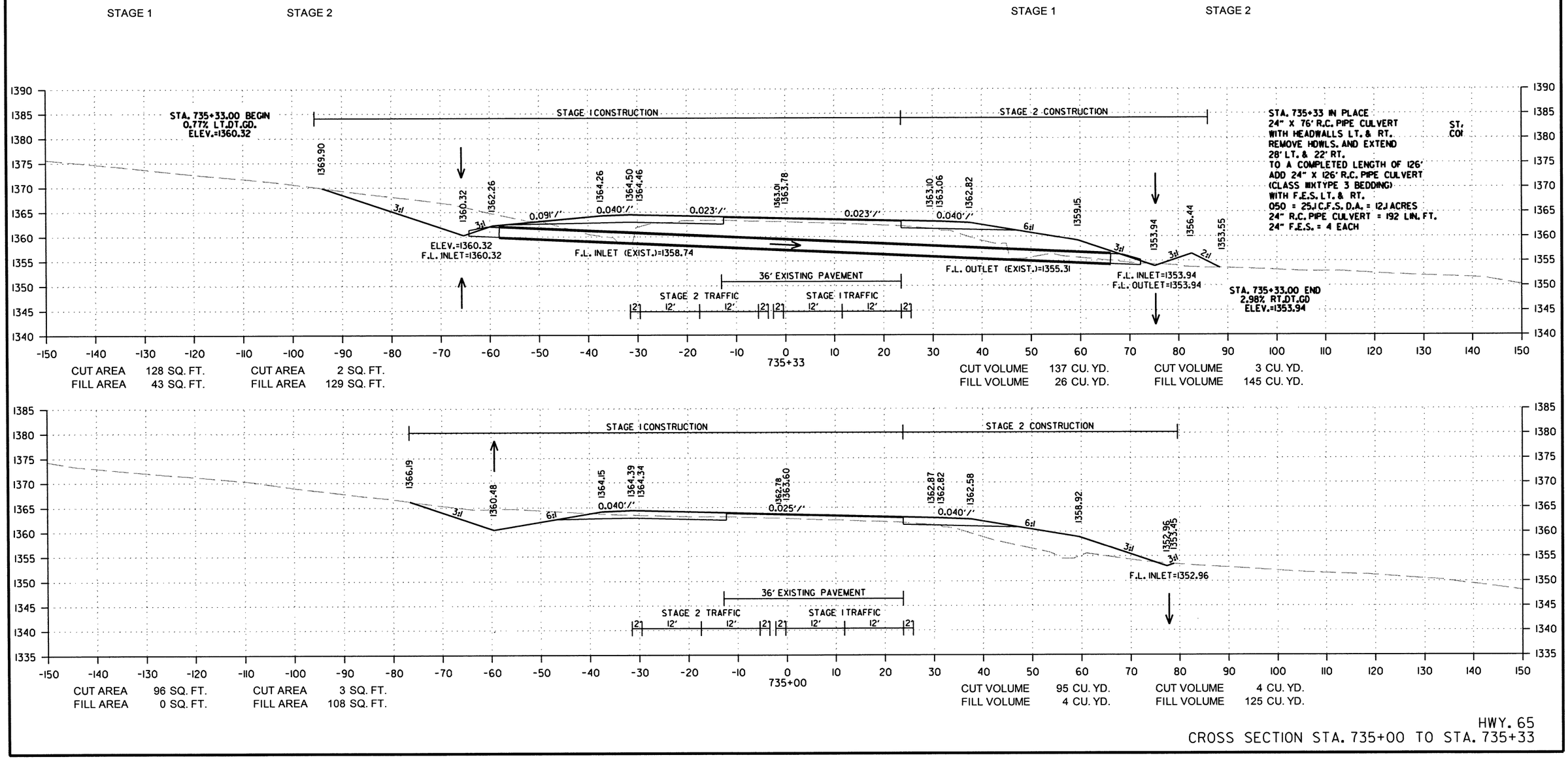
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 734+00 TO STA. 734+70

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	437	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 735+00 TO STA. 735+33

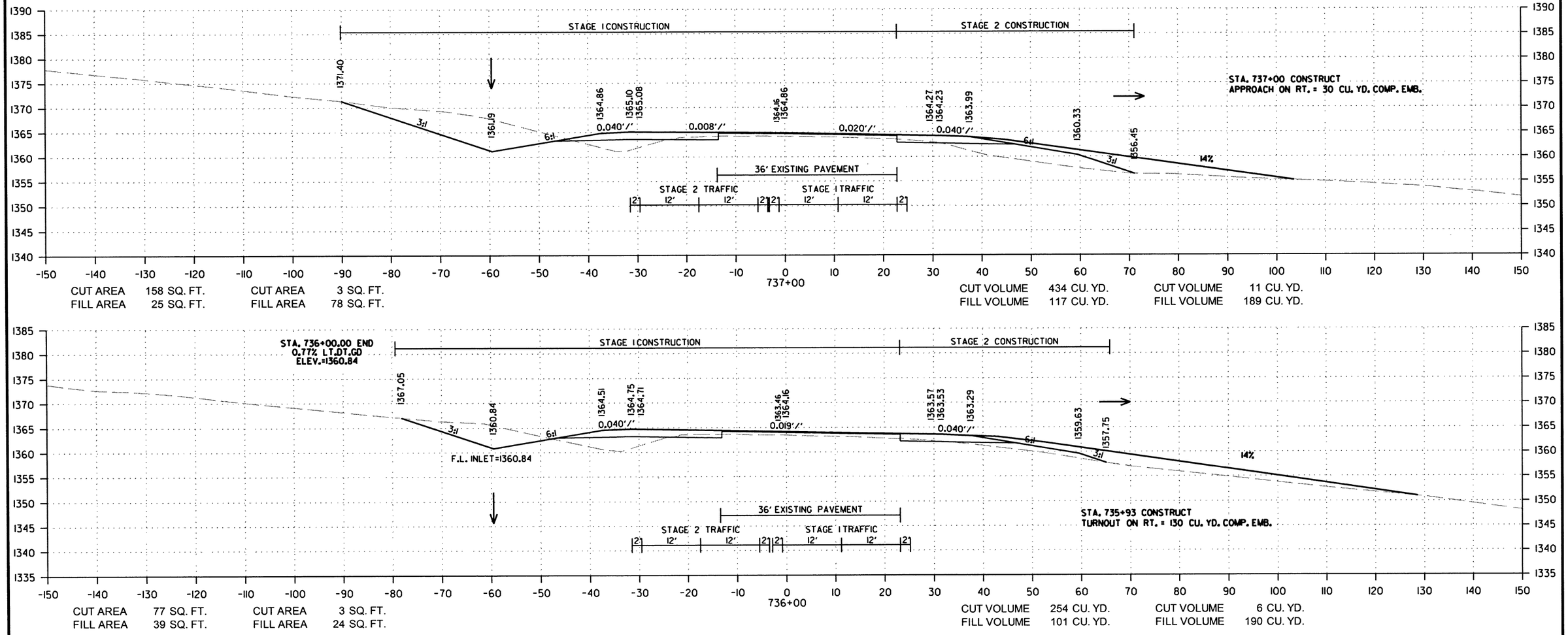
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	438	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

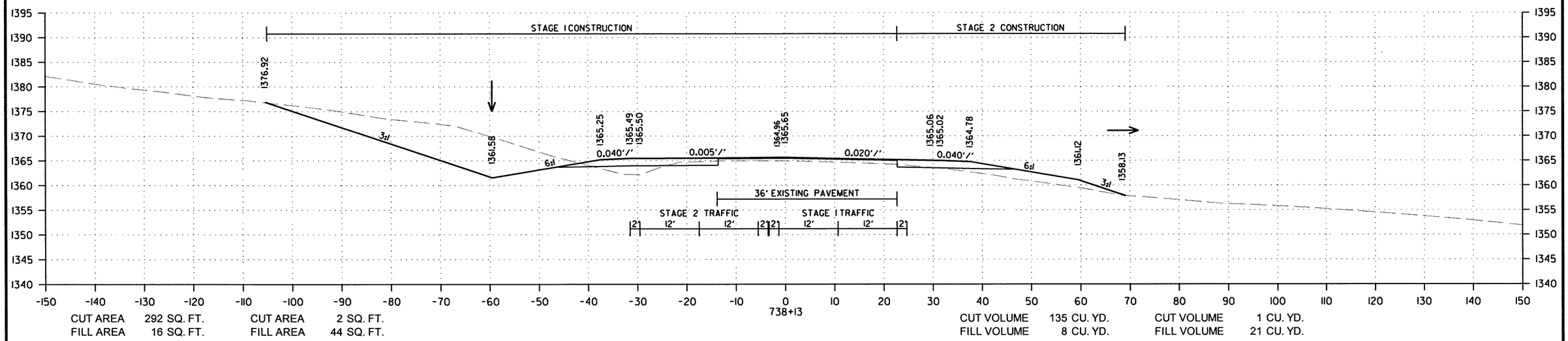
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 736+00 TO STA. 737+00

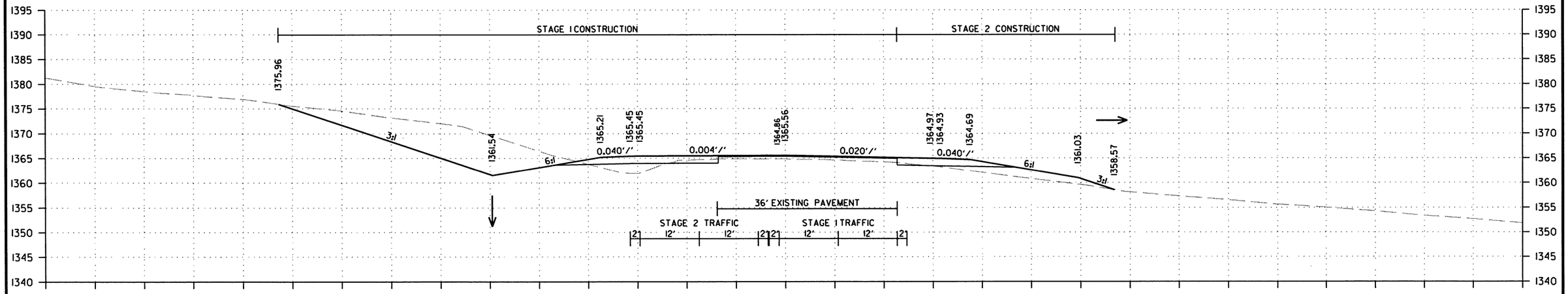
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	439	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	292 SQ. FT.	CUT AREA	2 SQ. FT.	CUT VOLUME	135 CU. YD.	CUT VOLUME	1 CU. YD.
FILL AREA	16 SQ. FT.	FILL AREA	44 SQ. FT.	FILL VOLUME	8 CU. YD.	FILL VOLUME	21 CU. YD.



CUT AREA	271 SQ. FT.	CUT AREA	2 SQ. FT.	CUT VOLUME	794 CU. YD.	CUT VOLUME	9 CU. YD.
FILL AREA	19 SQ. FT.	FILL AREA	41 SQ. FT.	FILL VOLUME	81 CU. YD.	FILL VOLUME	221 CU. YD.

HWY. 65
CROSS SECTION STA. 738+00 TO STA. 738+13

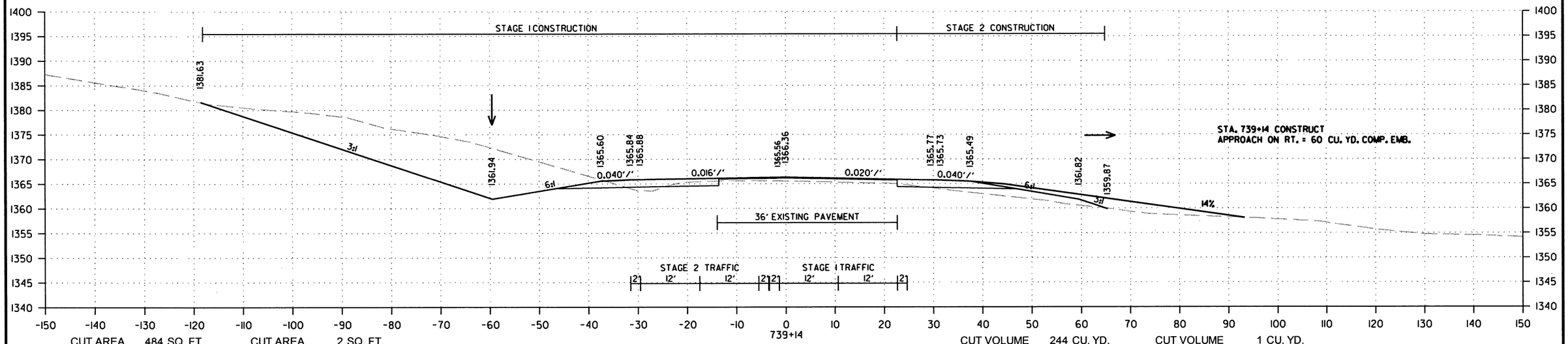
11/13/2018

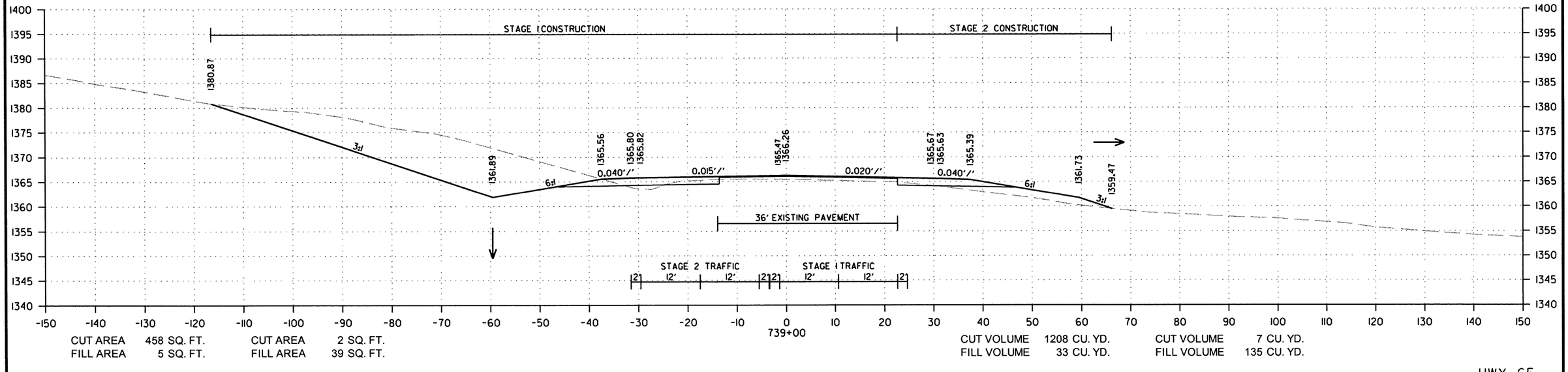
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	440	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





HWY. 65
CROSS SECTION STA. 739+00 TO STA. 739+14

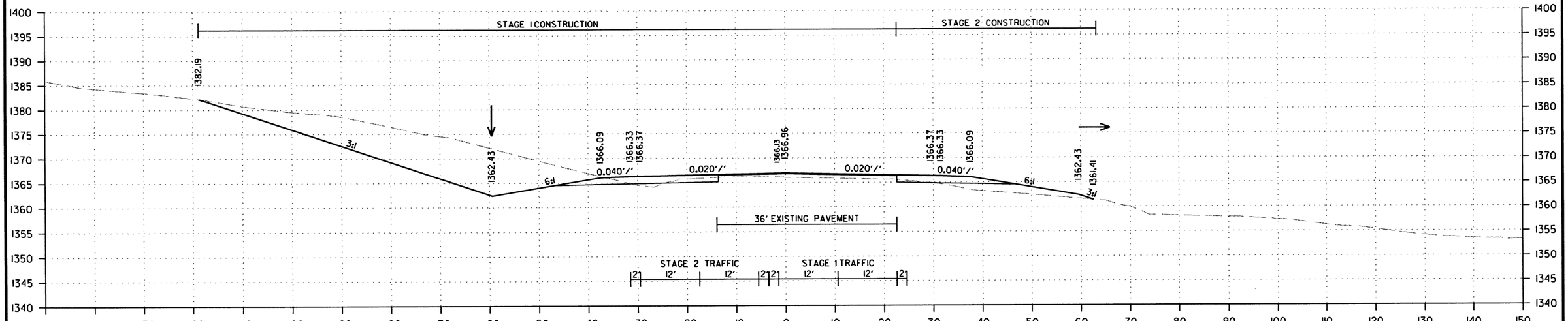
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	441	605

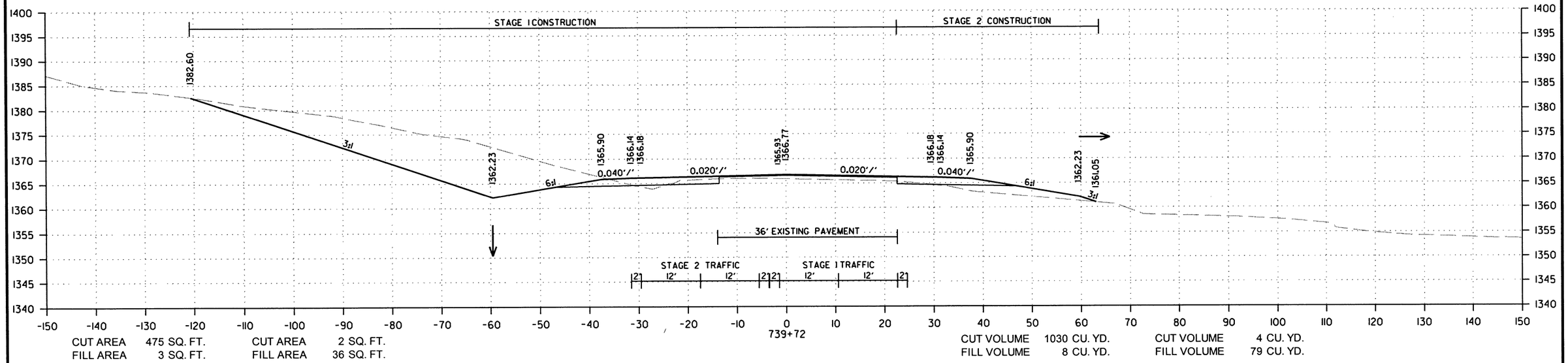
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 448 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 3 SQ. FT. FILL AREA 36 SQ. FT.

CUT VOLUME 479 CU. YD. CUT VOLUME 2 CU. YD.
FILL VOLUME 3 CU. YD. FILL VOLUME 37 CU. YD.



CUT AREA 475 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 3 SQ. FT. FILL AREA 36 SQ. FT.

CUT VOLUME 1030 CU. YD. CUT VOLUME 4 CU. YD.
FILL VOLUME 8 CU. YD. FILL VOLUME 79 CU. YD.

HWY. 65
CROSS SECTION STA. 739+72 TO STA. 740+00

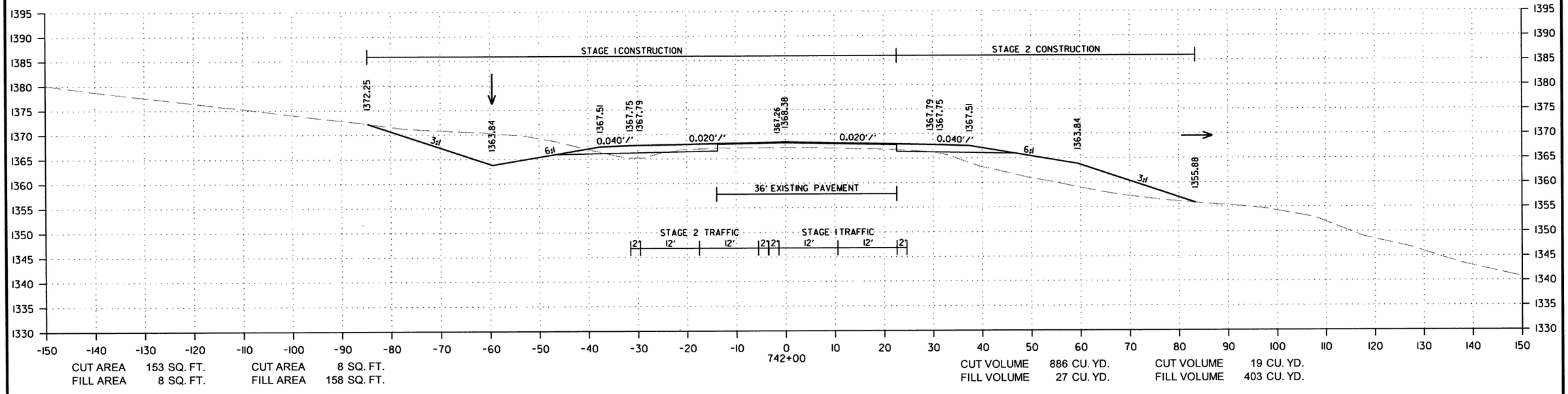
11/13/2018

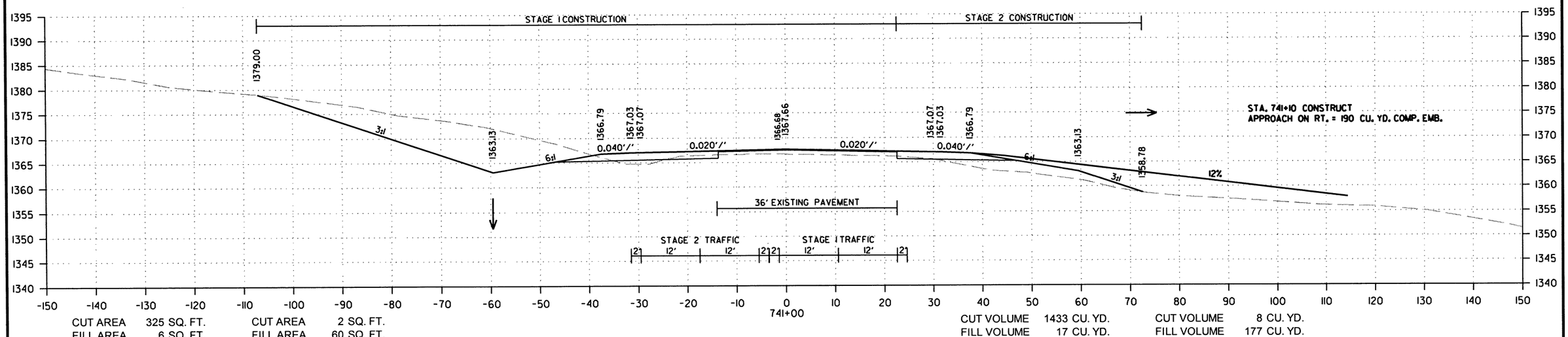
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	442	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





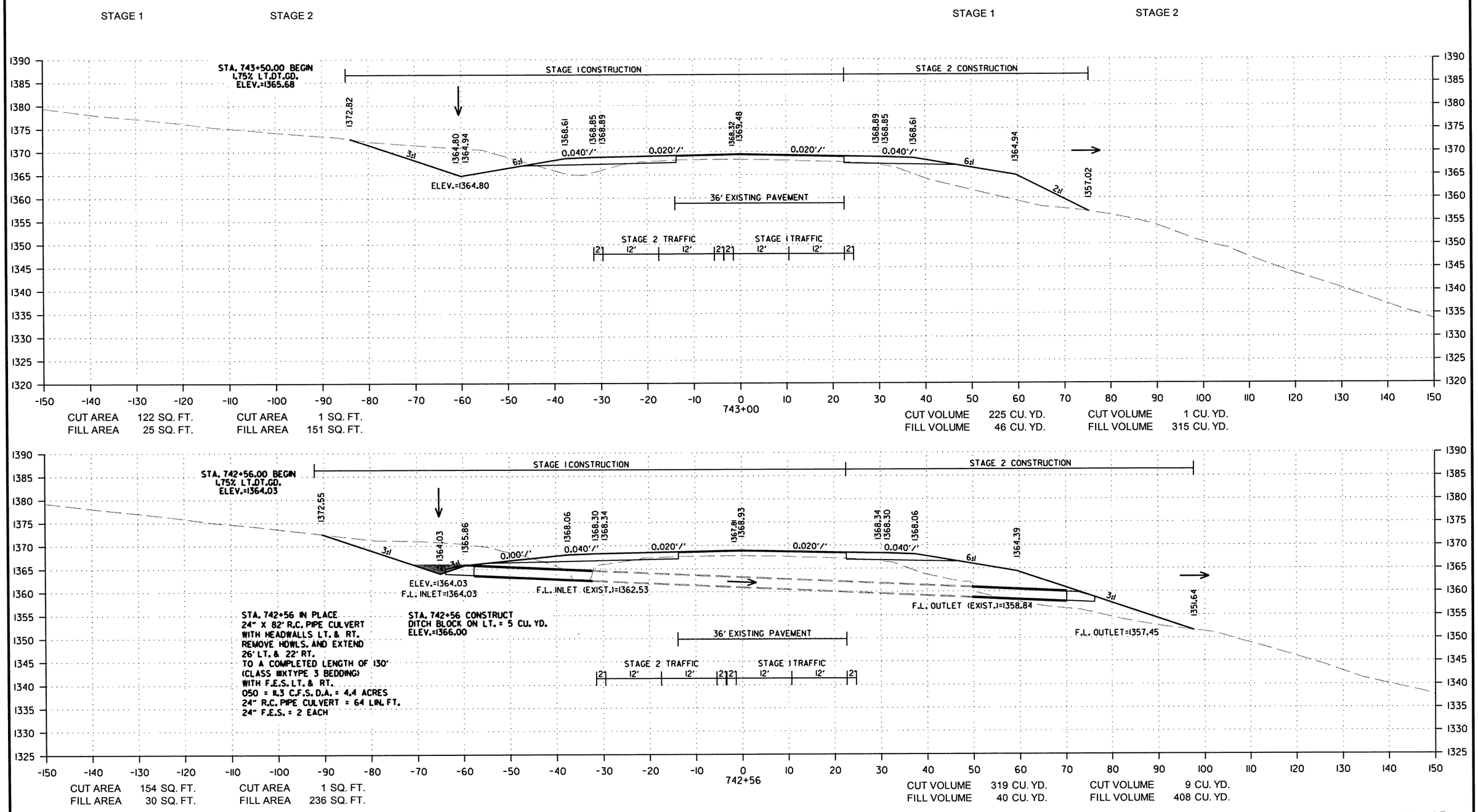
HWY. 65
CROSS SECTION STA. 741+00 TO STA. 742+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	443	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

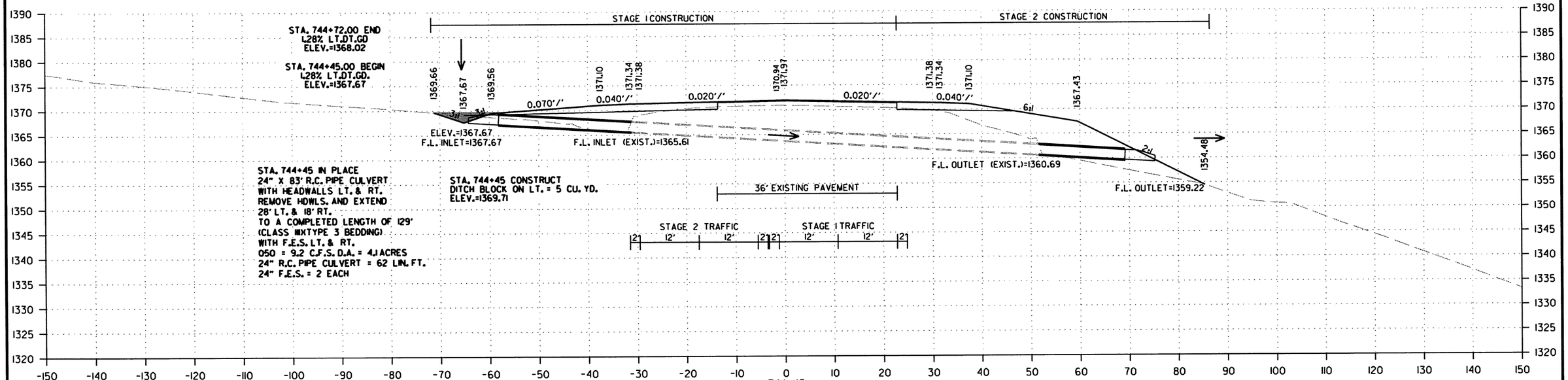
HWY. 65

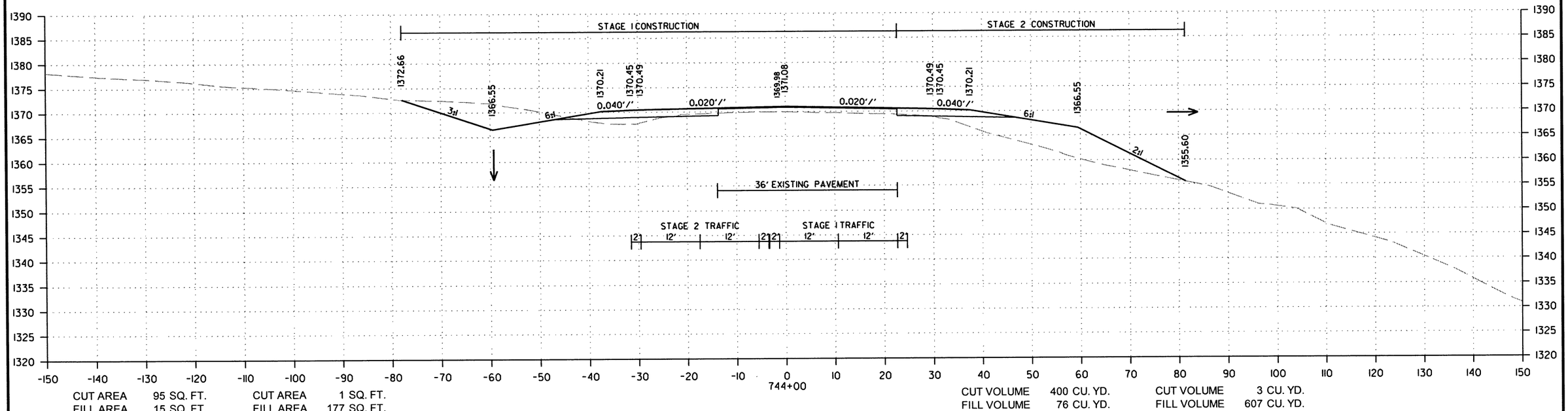
CROSS SECTION STA. 742+56 TO STA. 743+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	444	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





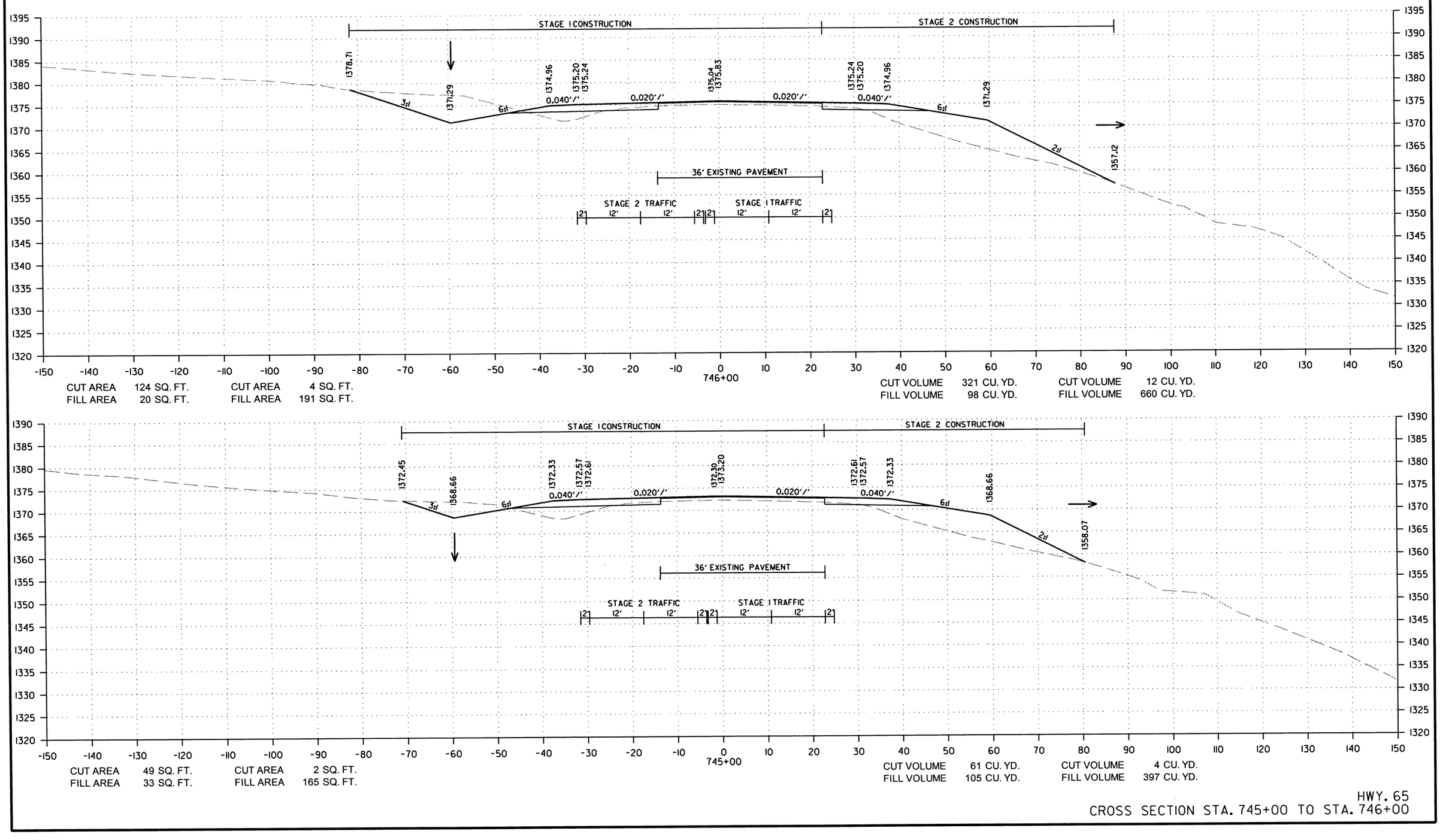
HWY. 65
CROSS SECTION STA. 744+00 TO STA. 744+45

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	445	605

(2) CROSS SECTIONS



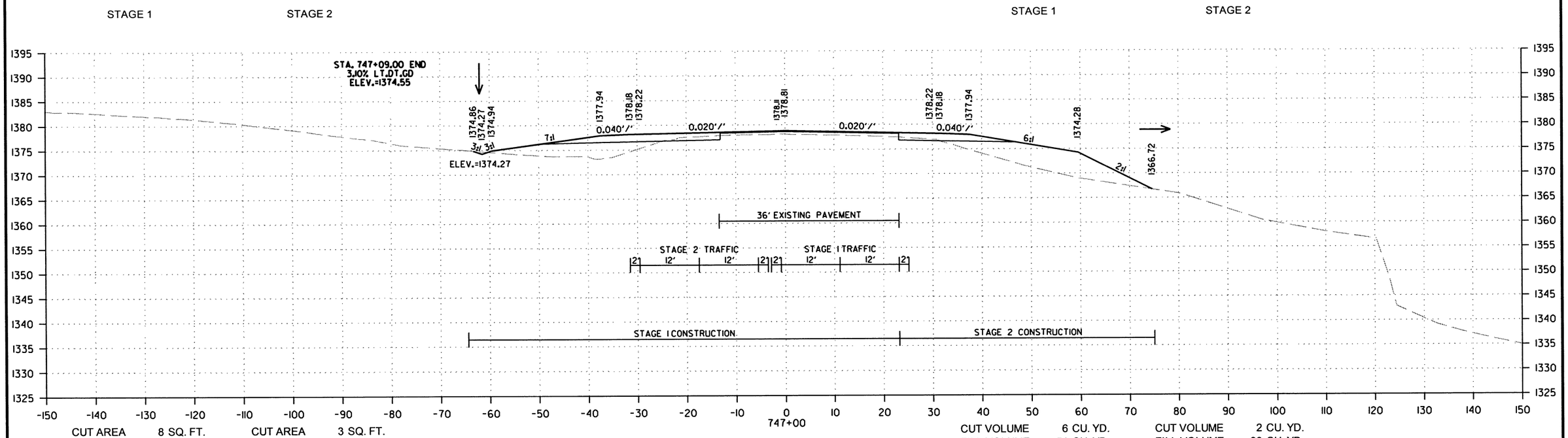
HWY. 65
CROSS SECTION STA. 745+00 TO STA. 746+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	446	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

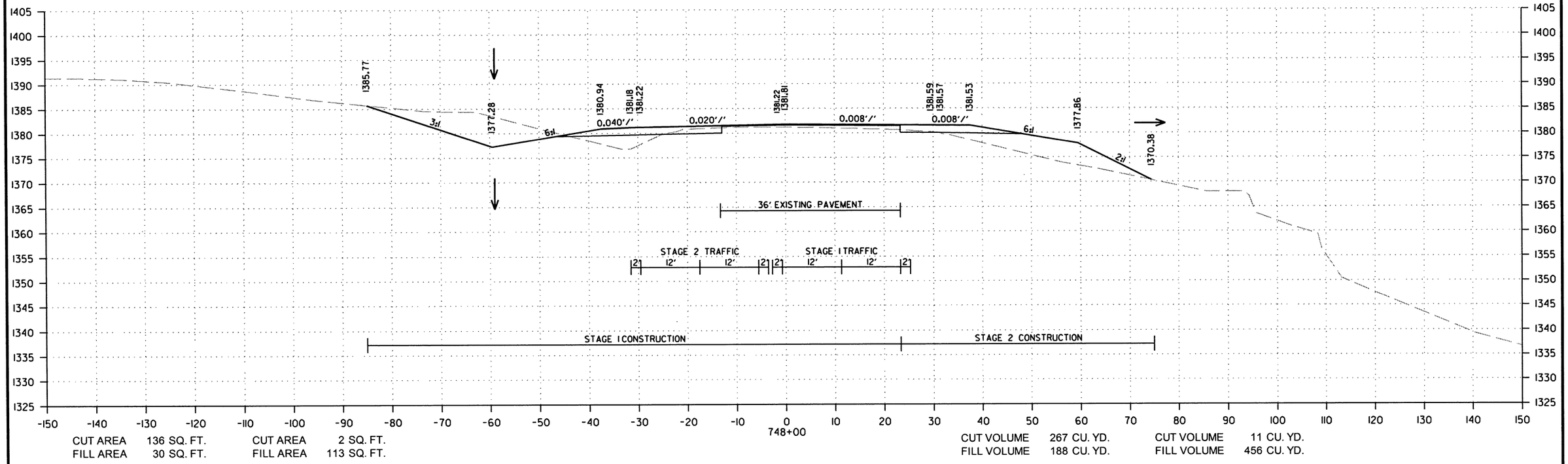
HWY. 65
CROSS SECTION STA. 746+82 TO STA. 747+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	447	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 136 SQ. FT.
FILL AREA 30 SQ. FT.

CUT AREA 2 SQ. FT.
FILL AREA 113 SQ. FT.

CUT VOLUME 267 CU. YD.
FILL VOLUME 188 CU. YD.

CUT VOLUME 11 CU. YD.
FILL VOLUME 456 CU. YD.

HWY. 65
CROSS SECTION STA. 748+00 TO STA. 748+00

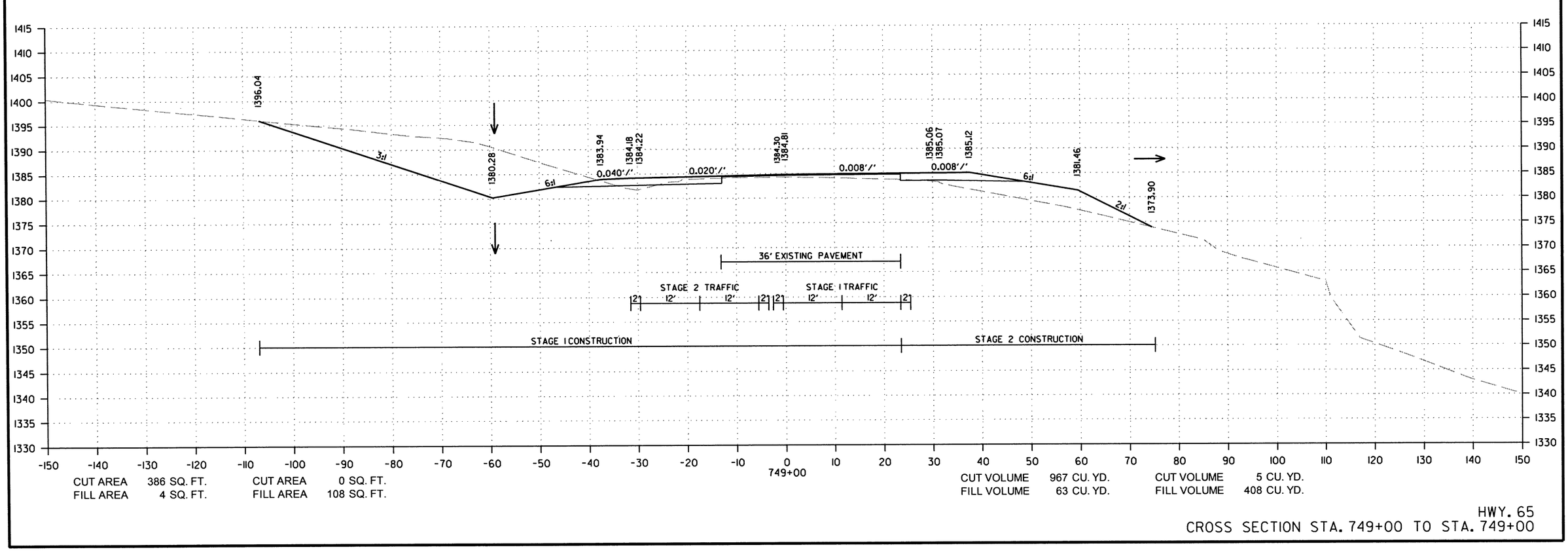
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	448	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 386 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 4 SQ. FT. FILL AREA 108 SQ. FT.

CUT VOLUME 967 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 63 CU. YD. FILL VOLUME 408 CU. YD.

HWY. 65
CROSS SECTION STA. 749+00 TO STA. 749+00

11/13/2018

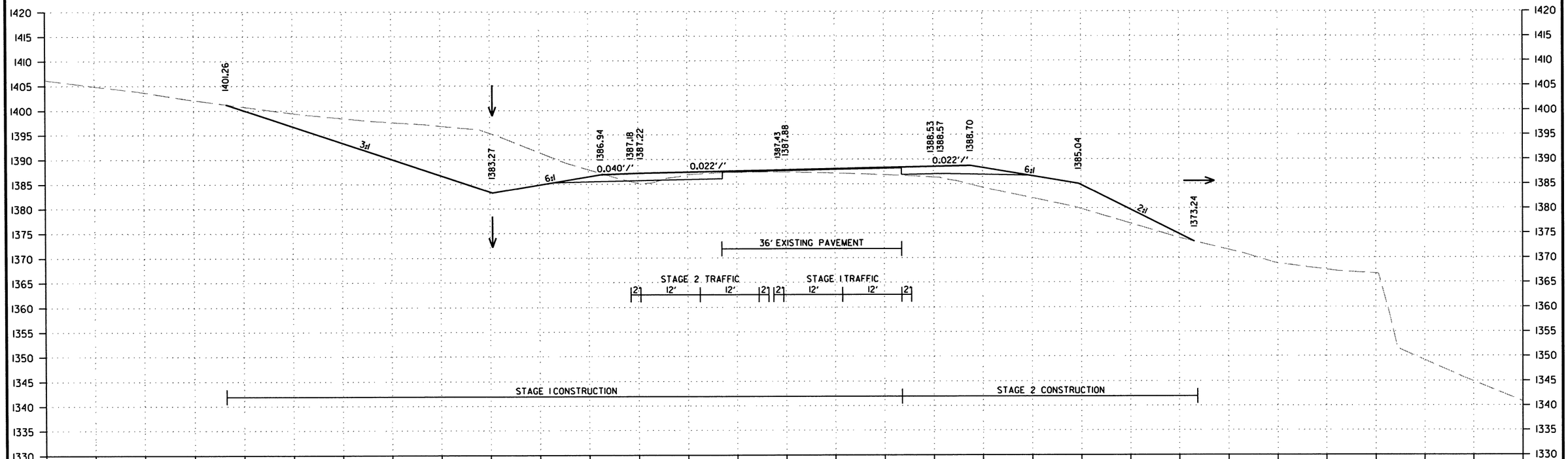
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	449	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 476 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 3 SQ. FT. FILL AREA 160 SQ. FT.

CUT VOLUME 1596 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 13 CU. YD. FILL VOLUME 495 CU. YD.

HWY. 65
CROSS SECTION STA. 750+00 TO STA. 750+00

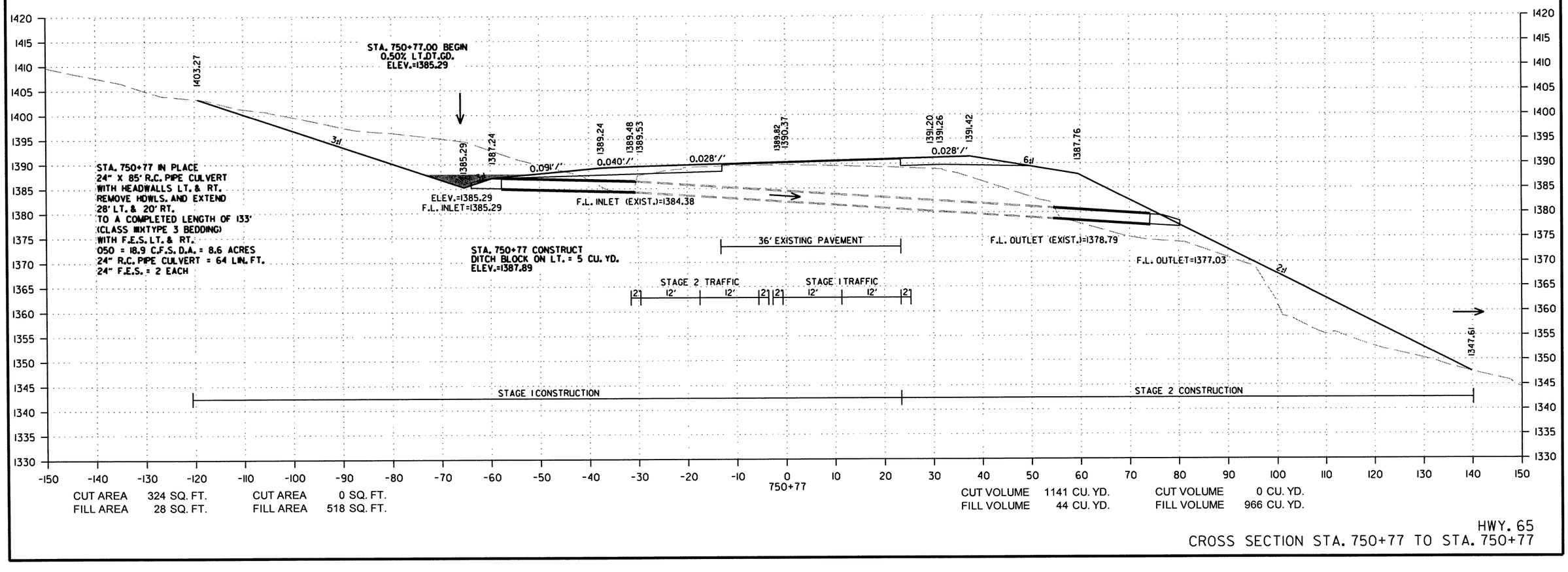
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	450	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 750+77 TO STA. 750+77

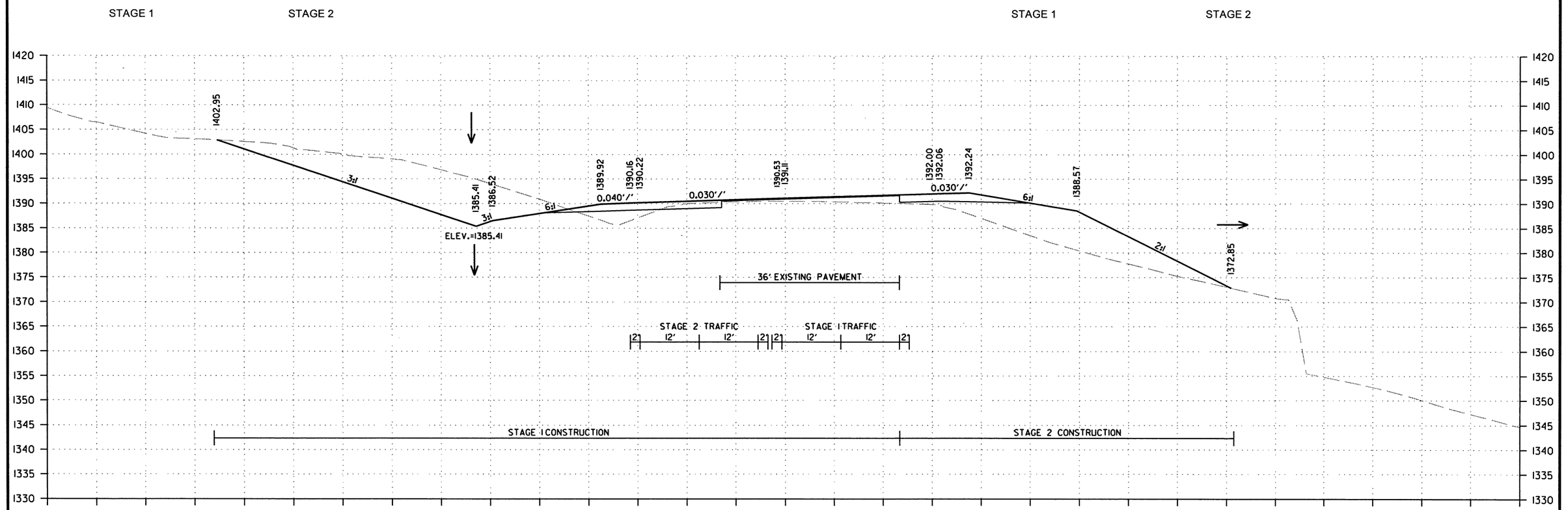
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	451	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 396 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 26 SQ. FT. FILL AREA 273 SQ. FT.

CUT VOLUME 307 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 23 CU. YD. FILL VOLUME 337 CU. YD.

HWY. 65
CROSS SECTION STA. 751+00 TO STA. 751+00

11/13/2018

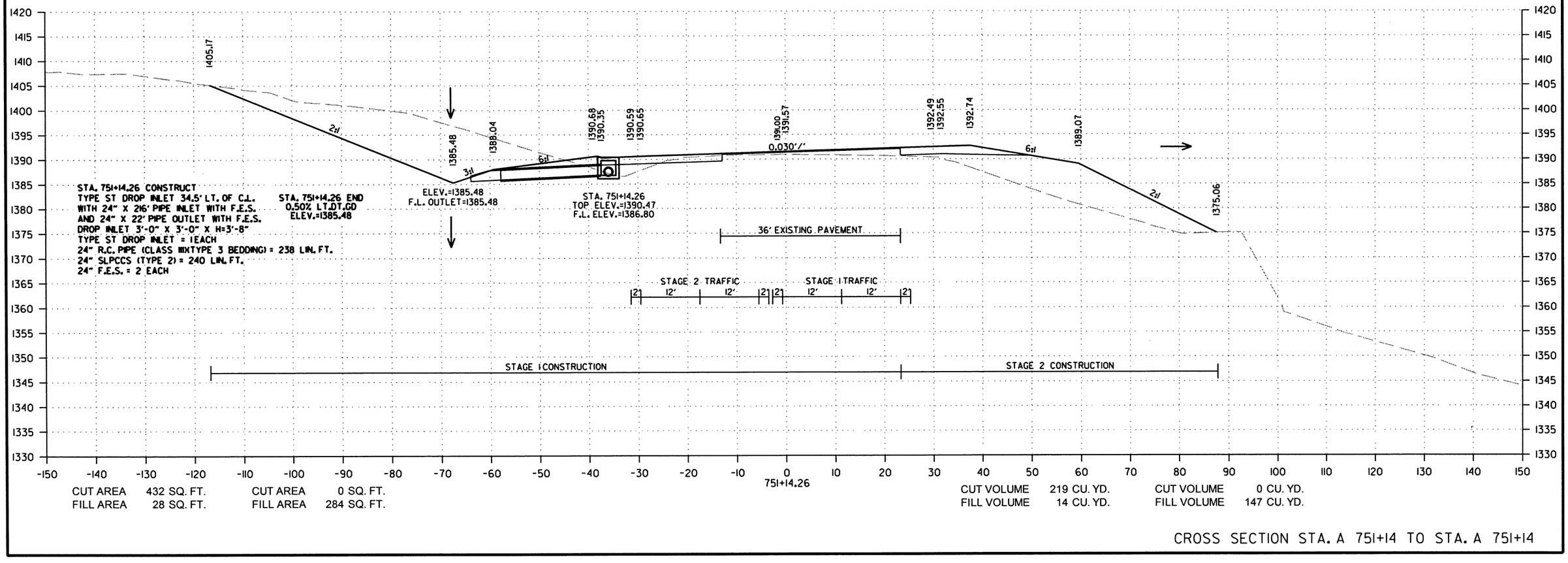
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	452	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 432 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 28 SQ. FT. FILL AREA 284 SQ. FT.

CUT VOLUME 219 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 14 CU. YD. FILL VOLUME 147 CU. YD.

CROSS SECTION STA. A 751+14 TO STA. A 751+14

11/13/2018

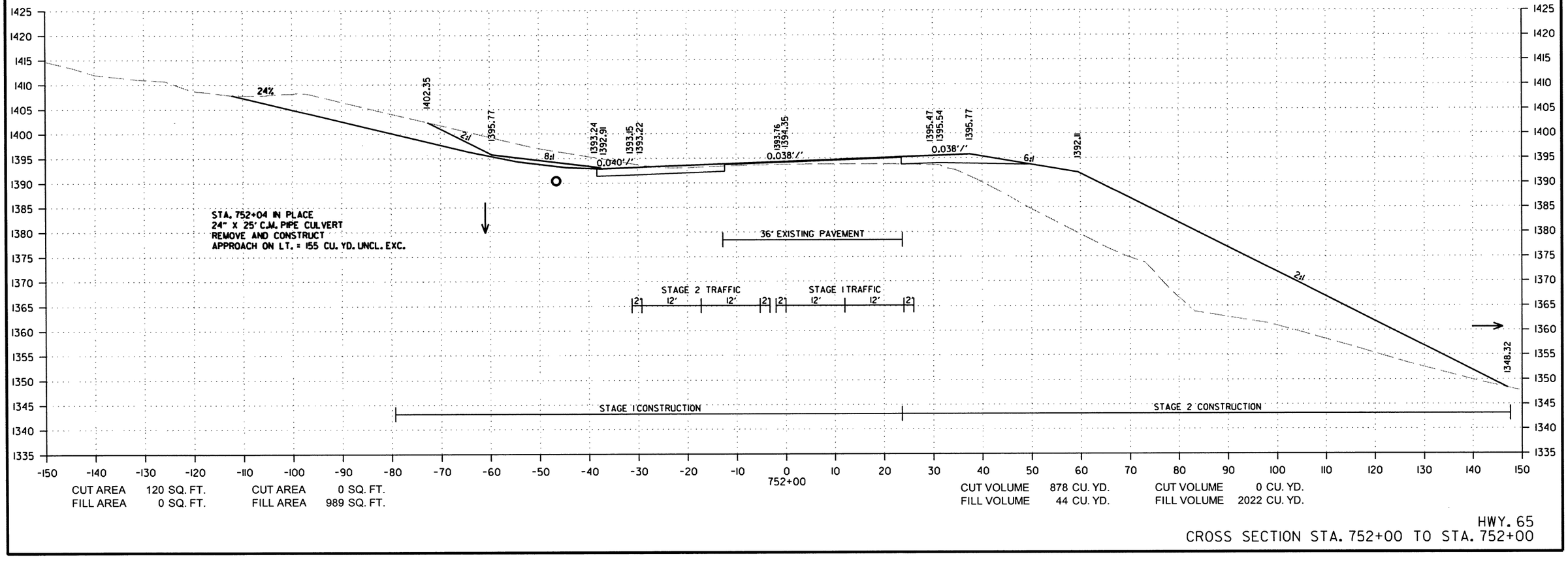
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	453	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 120 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 989 SQ. FT.

CUT VOLUME 878 CU. YD. CUT VOLUME 0 CU. YD.
FILL VOLUME 44 CU. YD. FILL VOLUME 2022 CU. YD.

HWY. 65
CROSS SECTION STA. 752+00 TO STA. 752+00

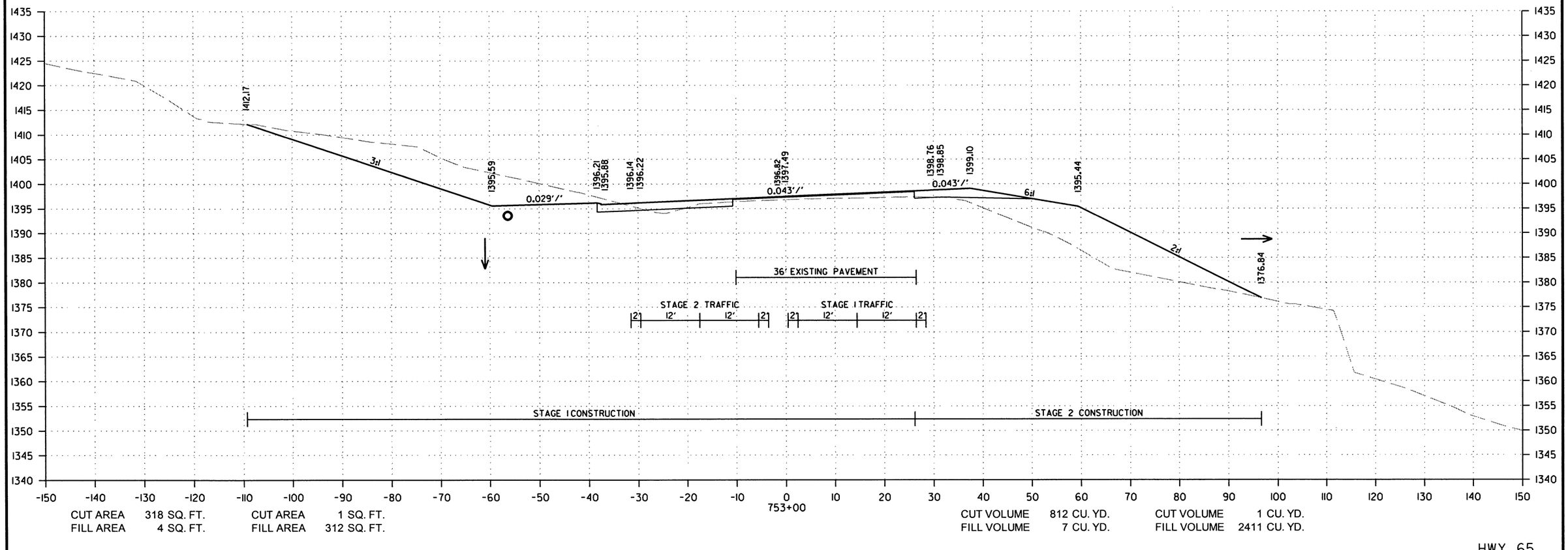
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	454	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 318 SQ. FT. CUT AREA 1 SQ. FT.
FILL AREA 4 SQ. FT. FILL AREA 312 SQ. FT.

CUT VOLUME 812 CU. YD. CUT VOLUME 1 CU. YD.
FILL VOLUME 7 CU. YD. FILL VOLUME 2411 CU. YD.

HWY. 65
CROSS SECTION STA. 753+00 TO STA. 753+00

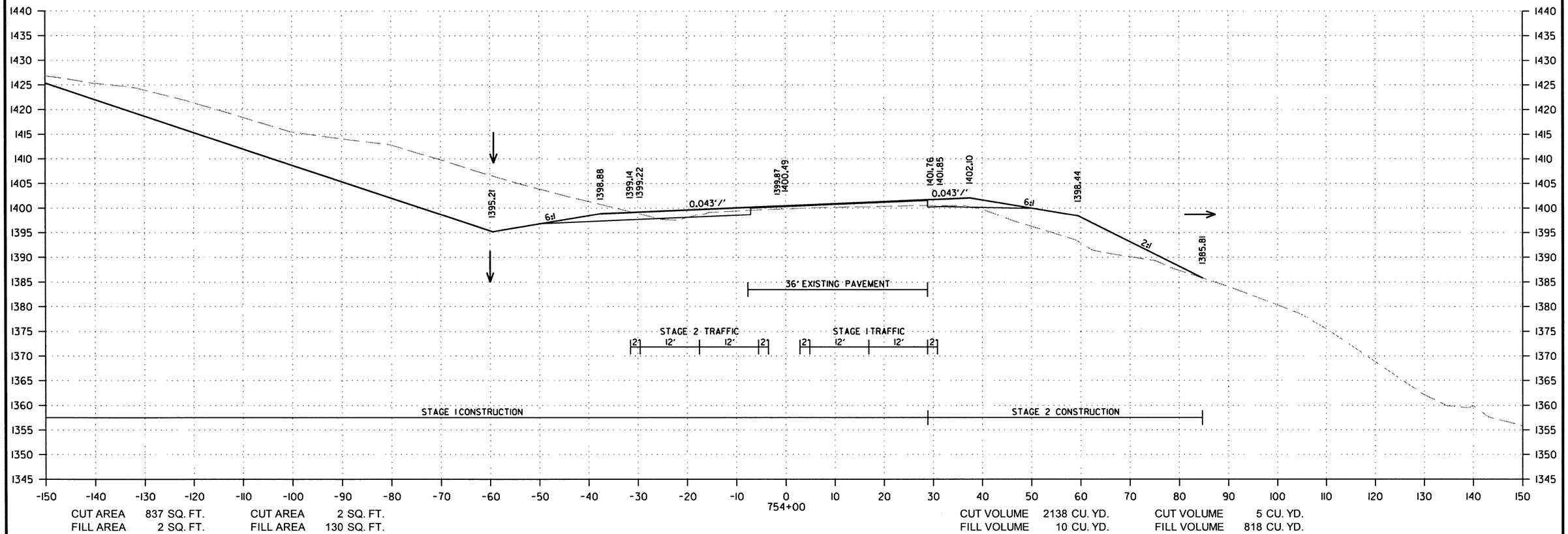
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	455	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 837 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 2 SQ. FT. FILL AREA 130 SQ. FT.

CUT VOLUME 2138 CU. YD. CUT VOLUME 5 CU. YD.
FILL VOLUME 10 CU. YD. FILL VOLUME 818 CU. YD.

HWY. 65
CROSS SECTION STA. 754+00 TO STA. 754+00

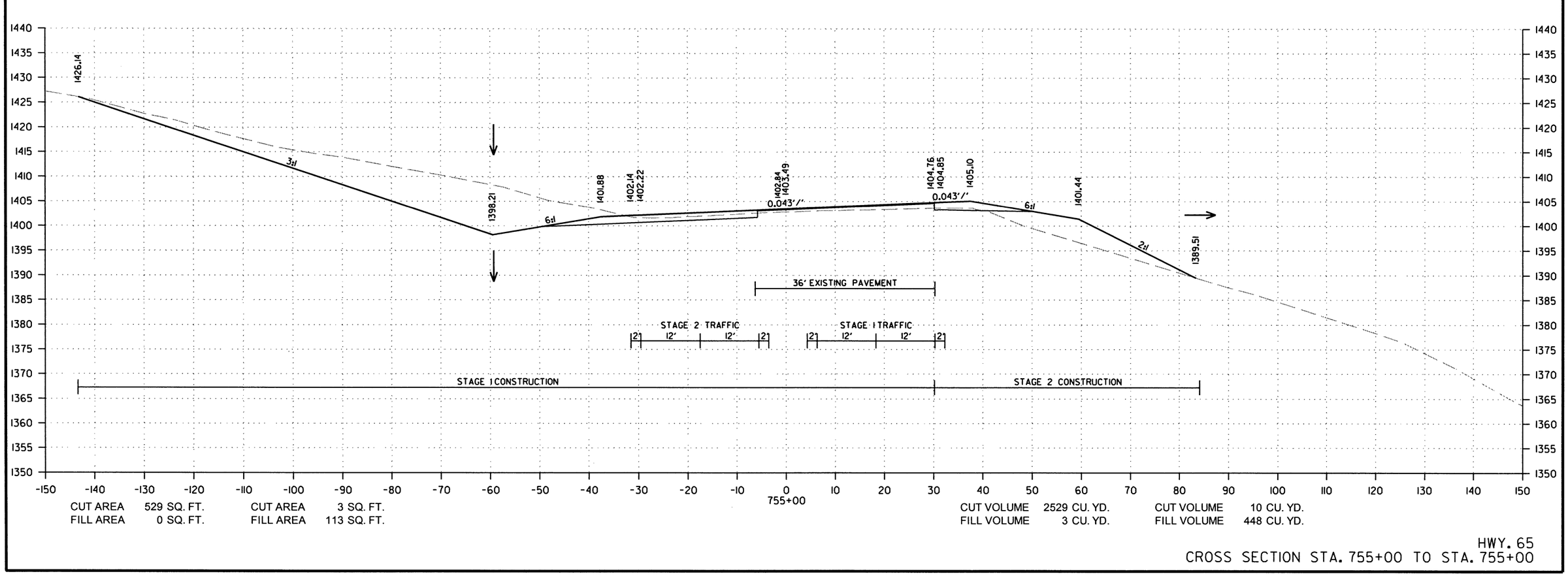
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	456	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 529 SQ. FT. CUT AREA 3 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 113 SQ. FT.

CUT VOLUME 2529 CU. YD. CUT VOLUME 10 CU. YD.
FILL VOLUME 3 CU. YD. FILL VOLUME 448 CU. YD.

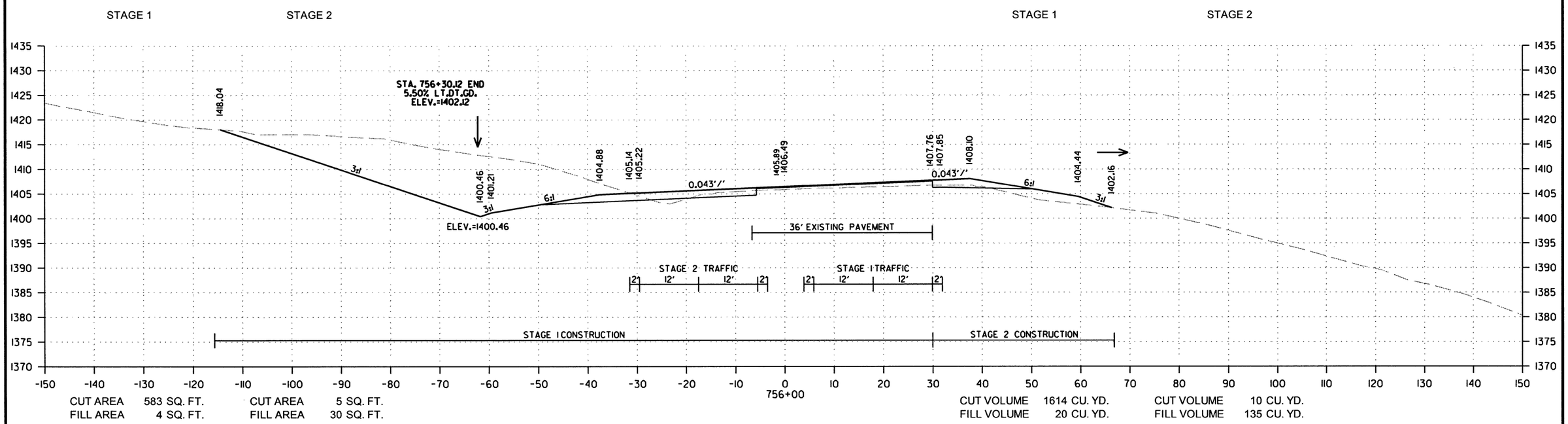
HWY. 65
CROSS SECTION STA. 755+00 TO STA. 755+00

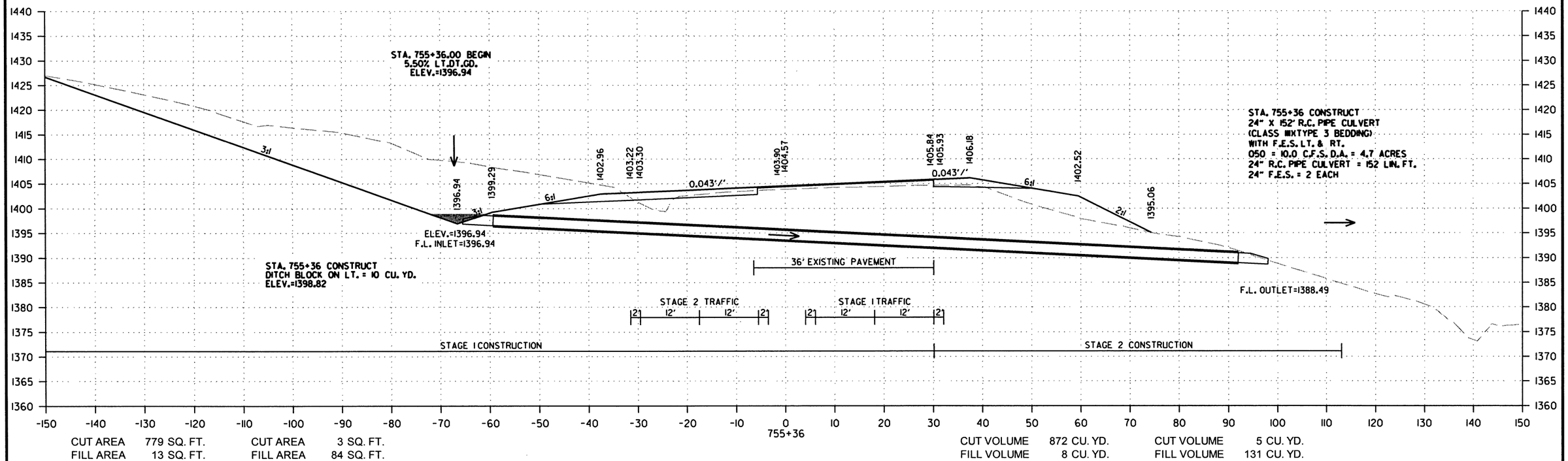
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	457	605

(2) CROSS SECTIONS





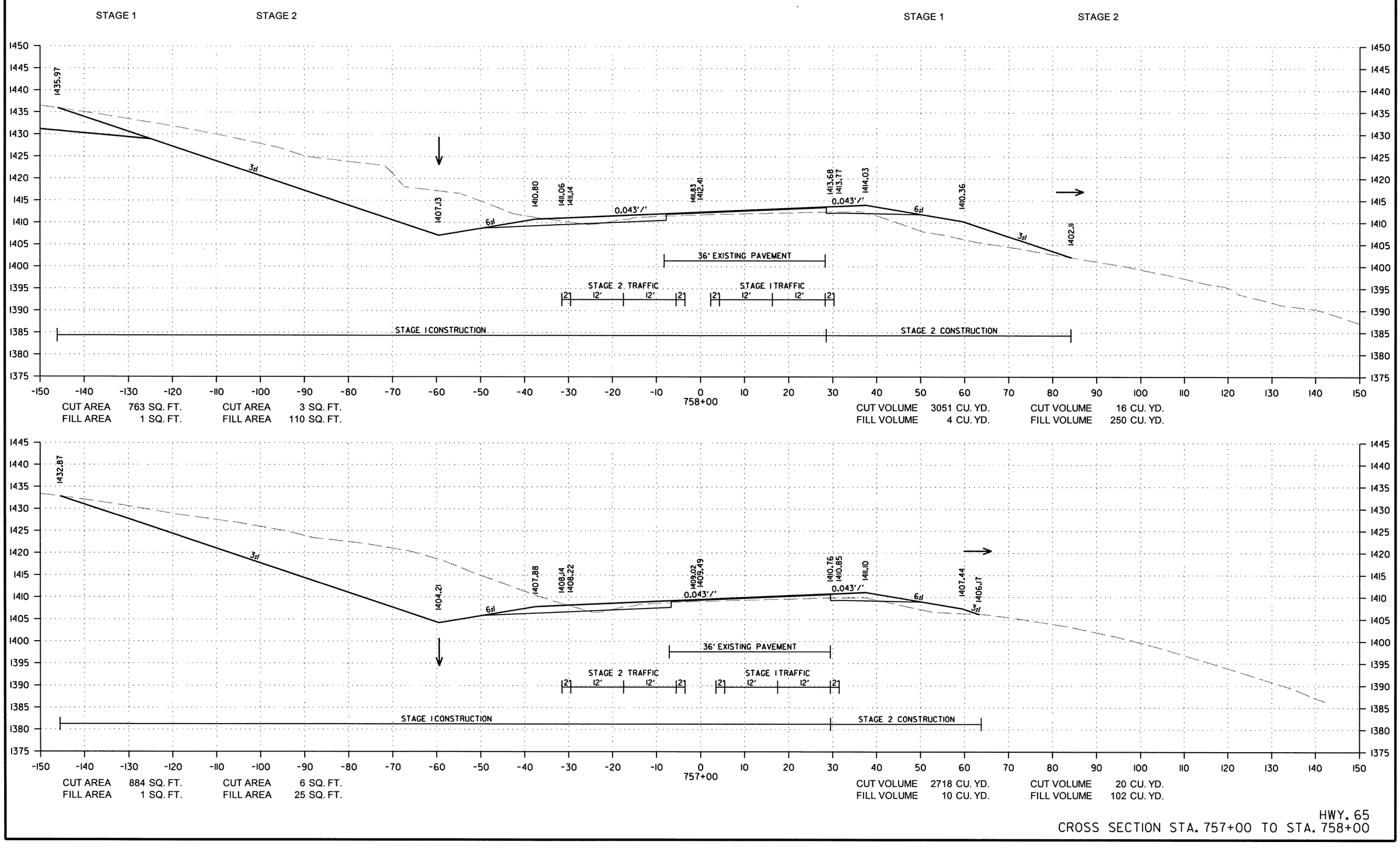
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 755+36 TO STA. 756+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	458	605

(2) CROSS SECTIONS



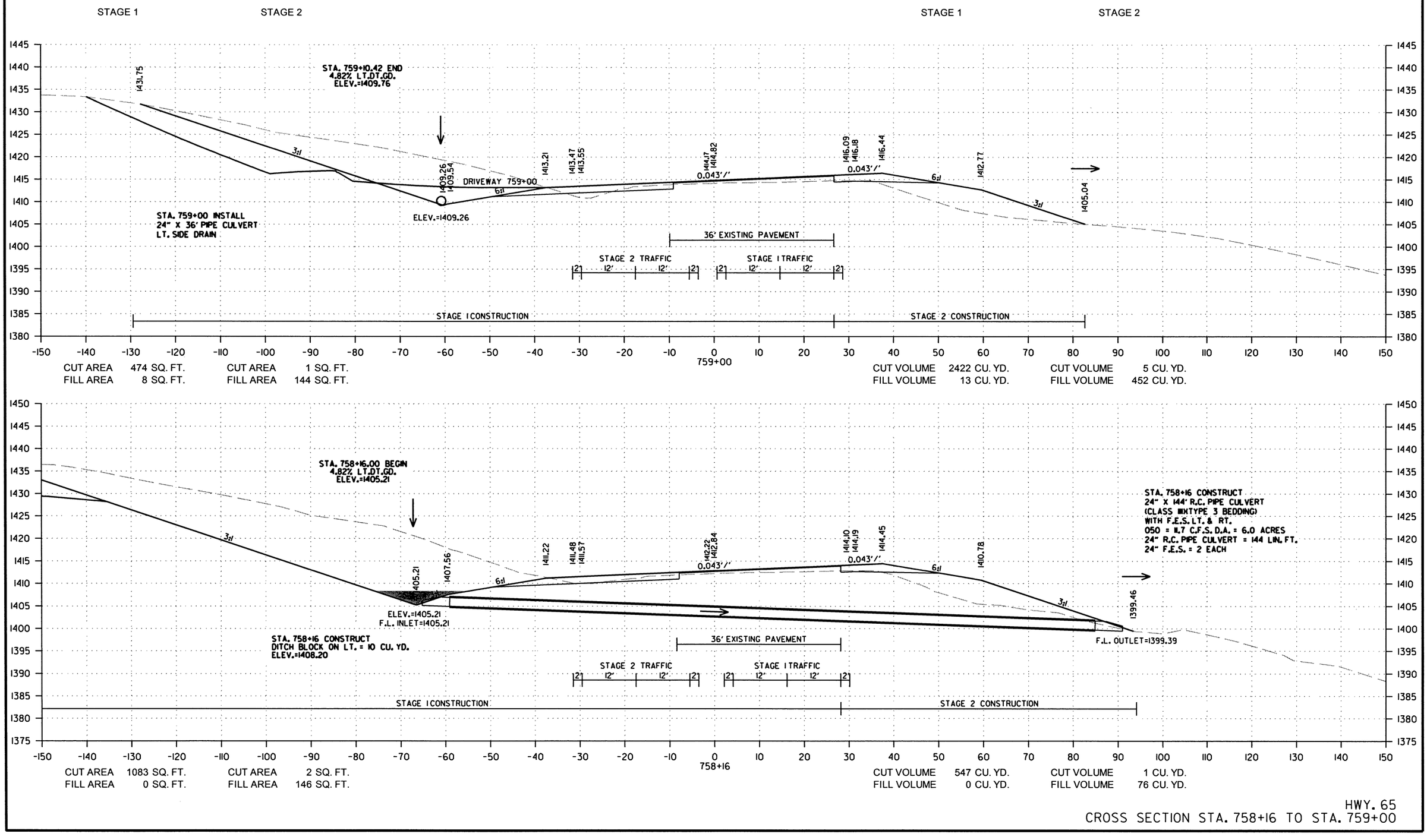
HWY. 65
CROSS SECTION STA. 757+00 TO STA. 758+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	459	605

(2) CROSS SECTIONS



11/13/2018

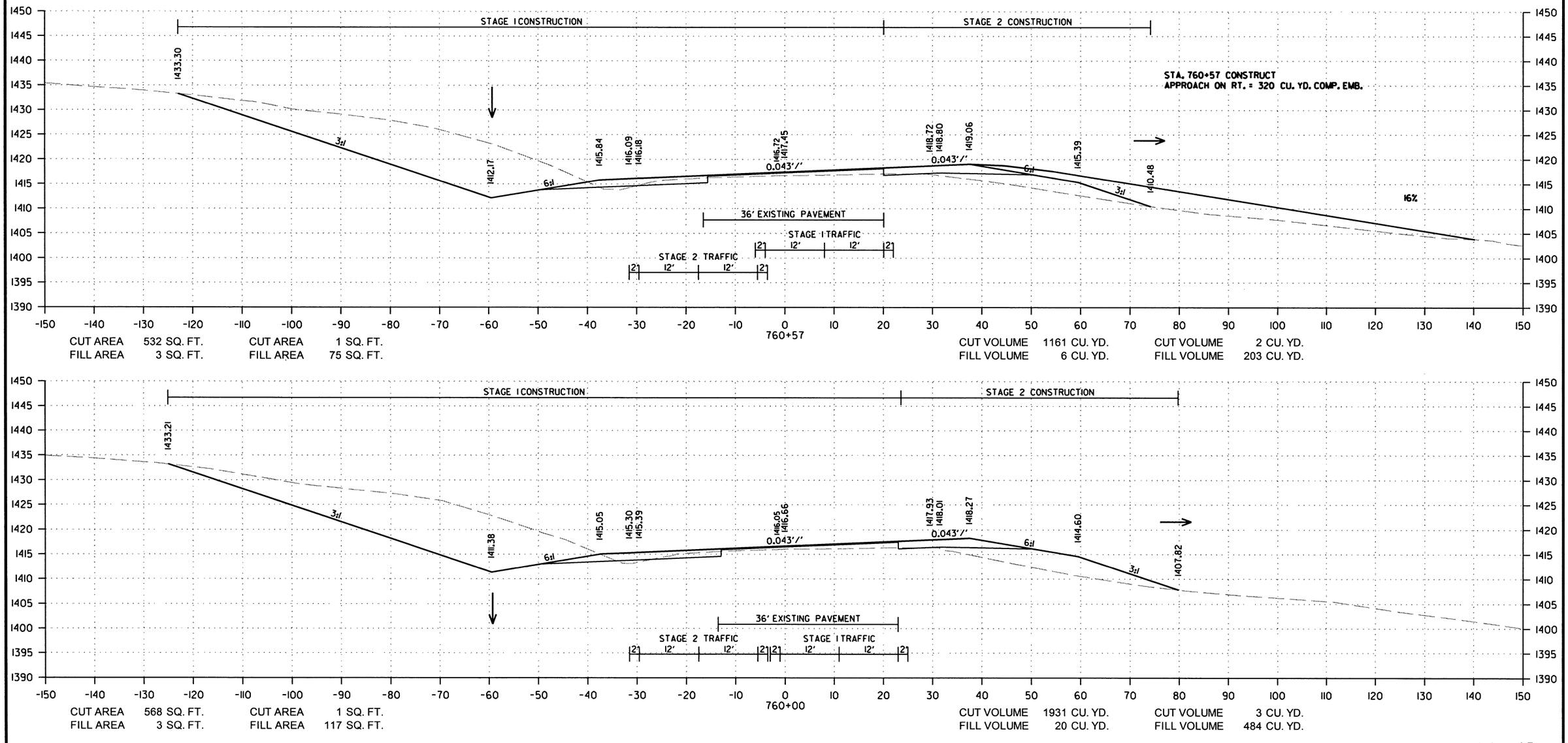
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 758+16 TO STA. 759+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	460	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



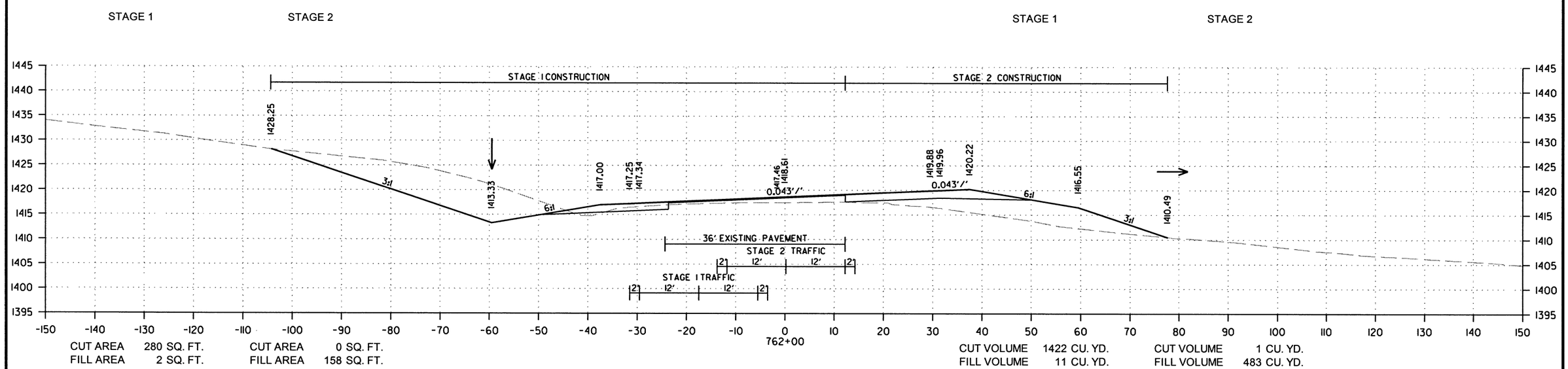
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 760+00 TO STA. 760+57

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	461	605

(2) CROSS SECTIONS



11/13/2018

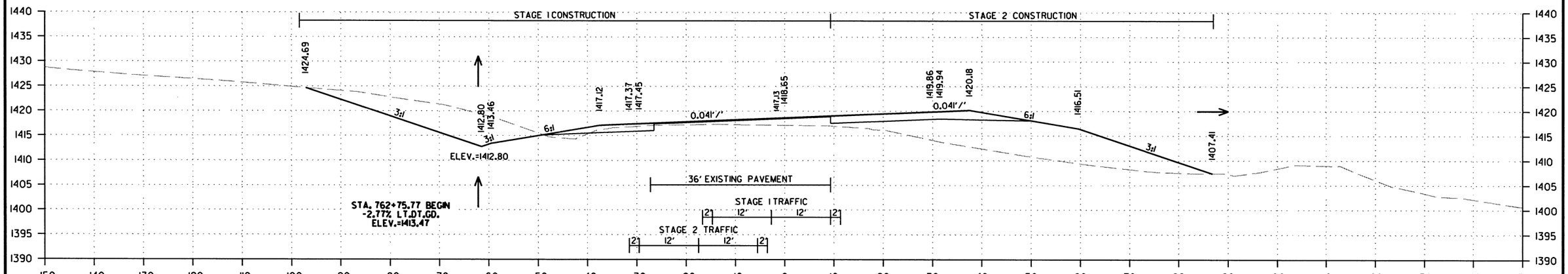
RCA0801.DGN

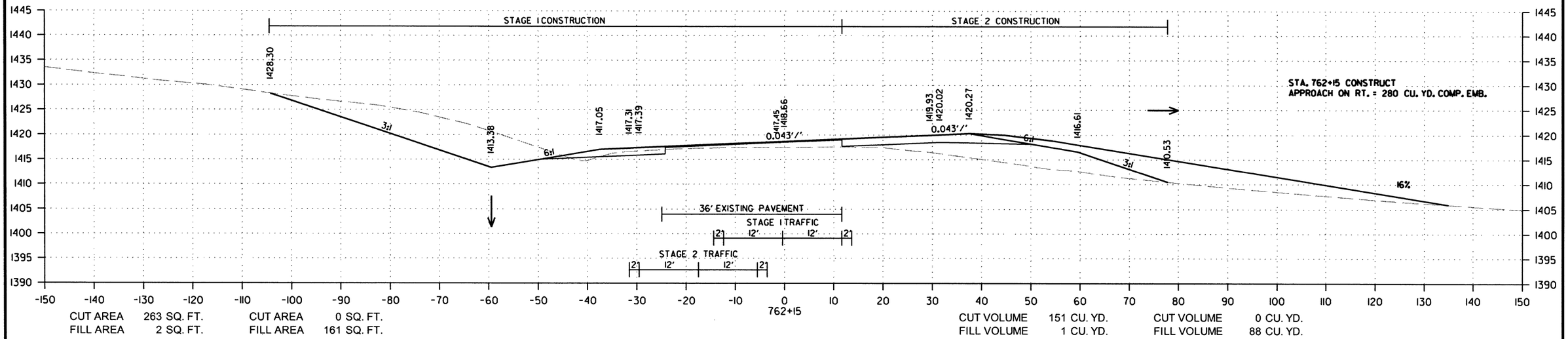
HWY. 65
CROSS SECTION STA. 761+00 TO STA. 762+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	462	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





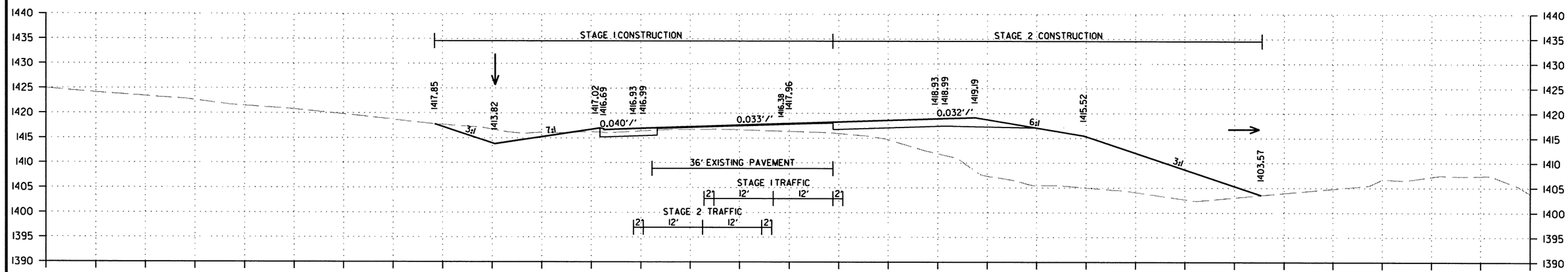
11/13/2018

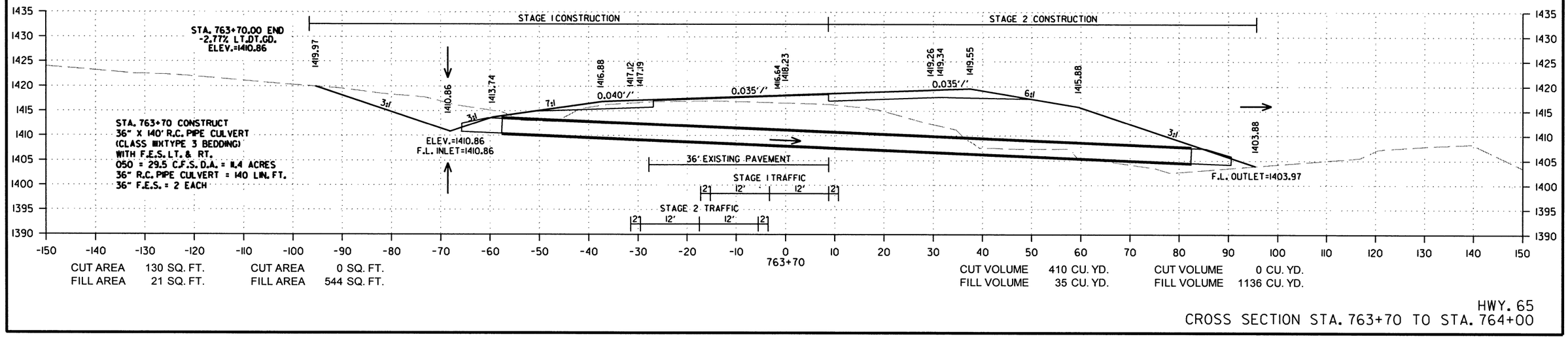
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 762+15 TO STA. 763+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	463	605

(2) CROSS SECTIONS





11/13/2018

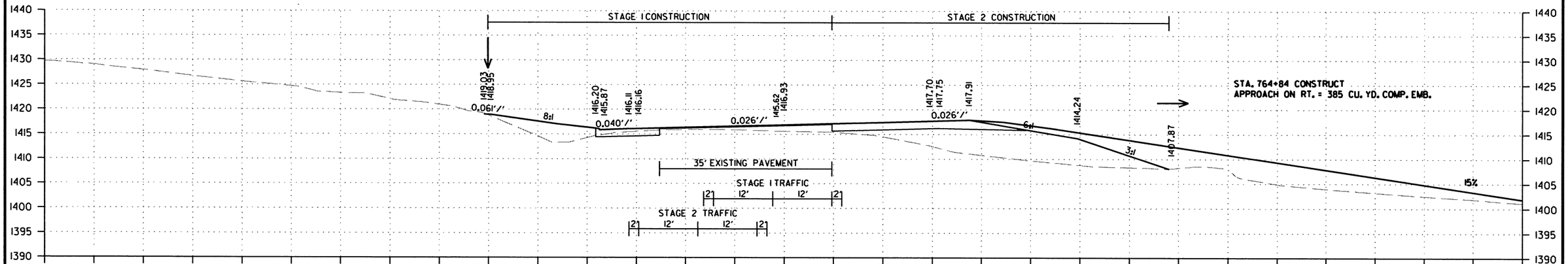
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 763+70 TO STA. 764+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	464	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

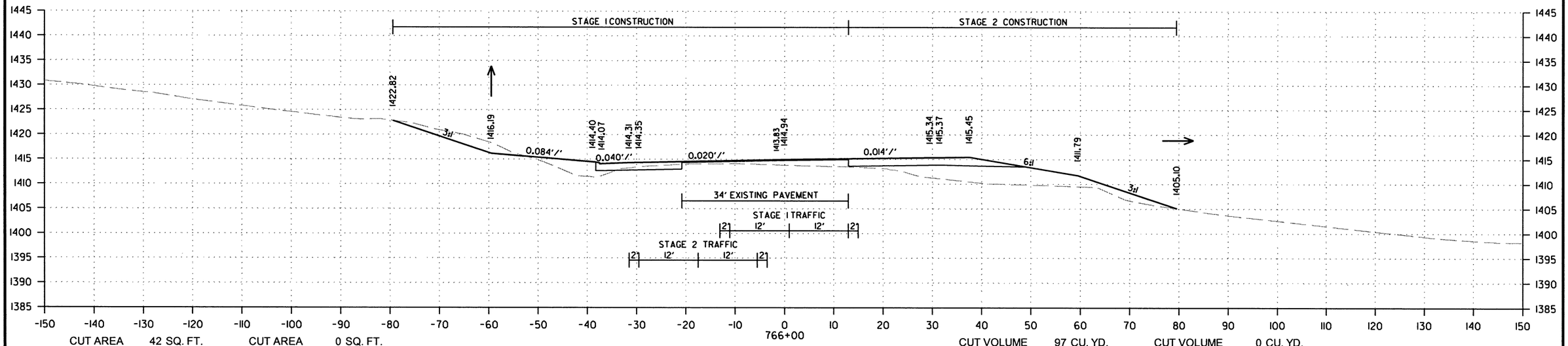
RCA0801.DGN

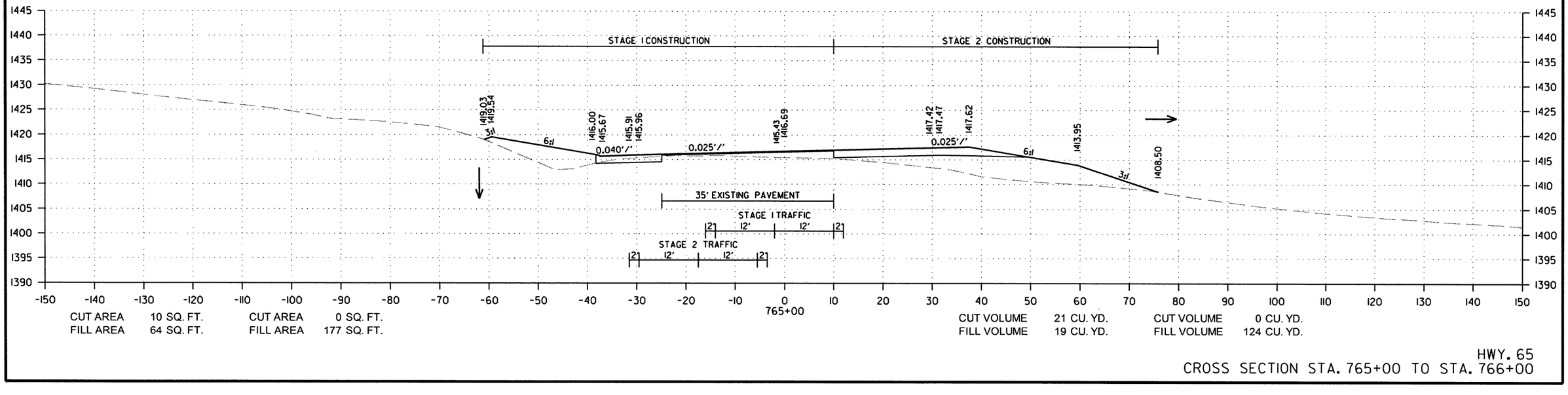
HWY. 65
CROSS SECTION STA. 764+28 TO STA. 764+84

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	465	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





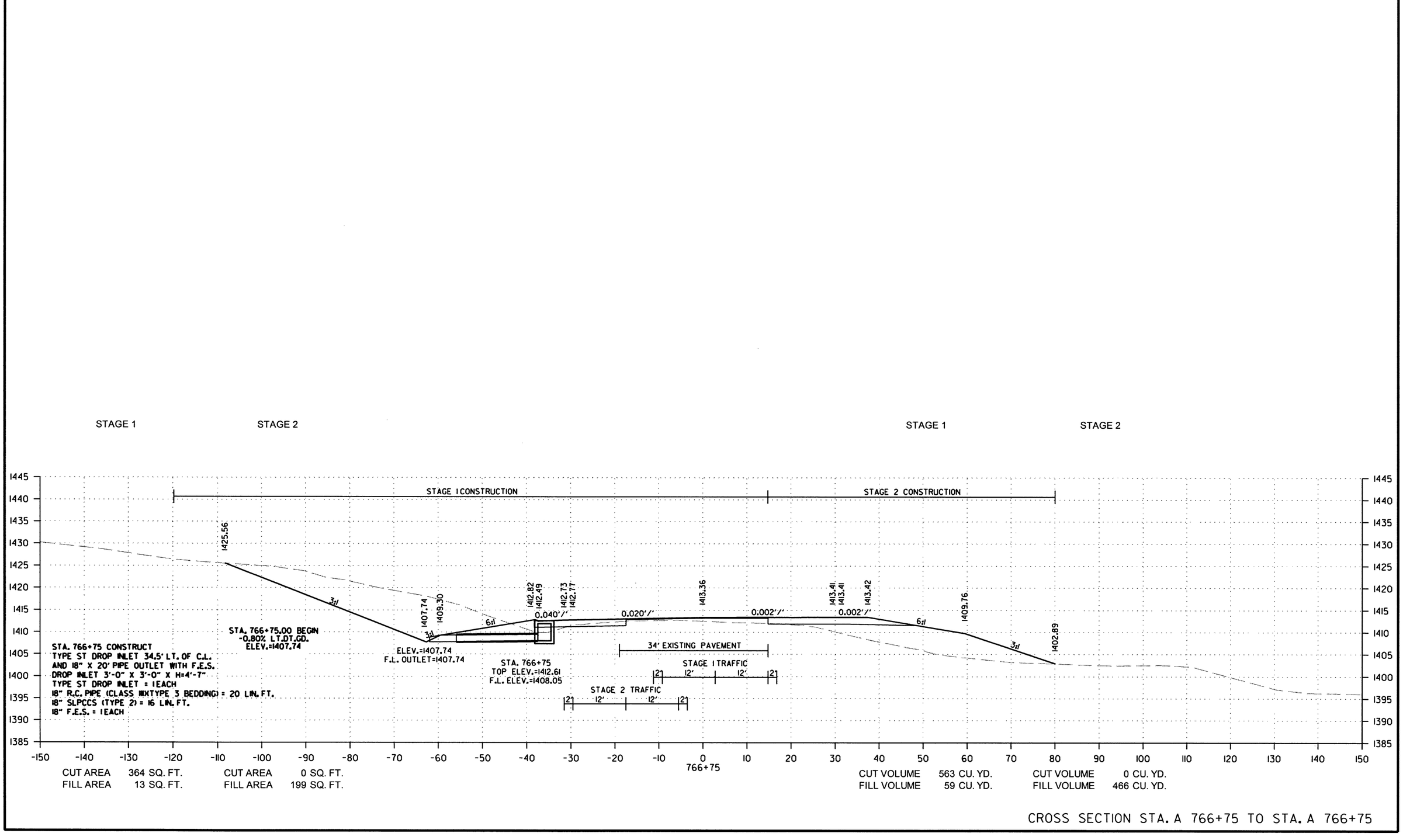
HWY. 65
CROSS SECTION STA. 765+00 TO STA. 766+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	466	605

(2) CROSS SECTIONS



CROSS SECTION STA. A 766+75 TO STA. A 766+75

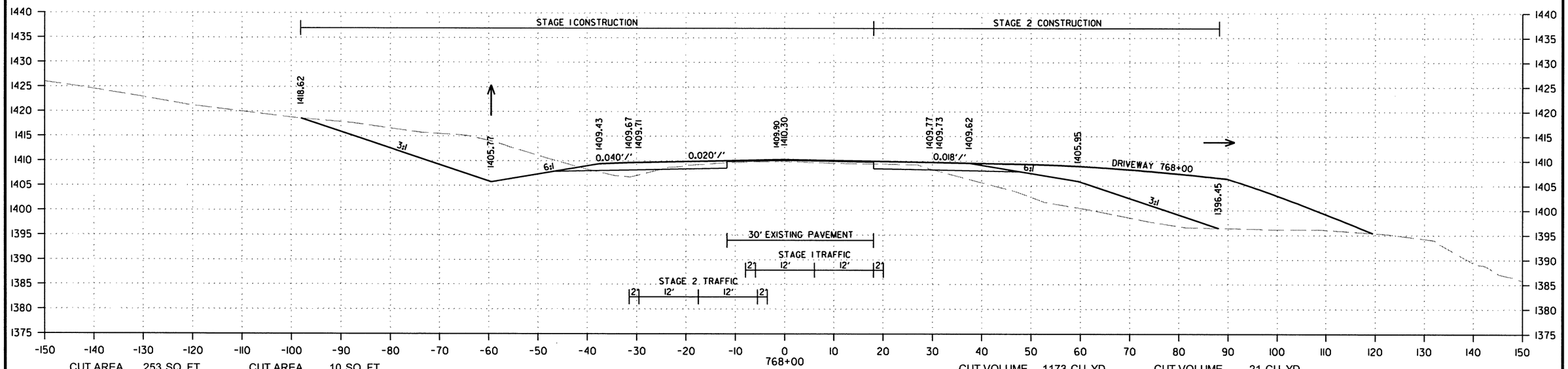
11/13/2018

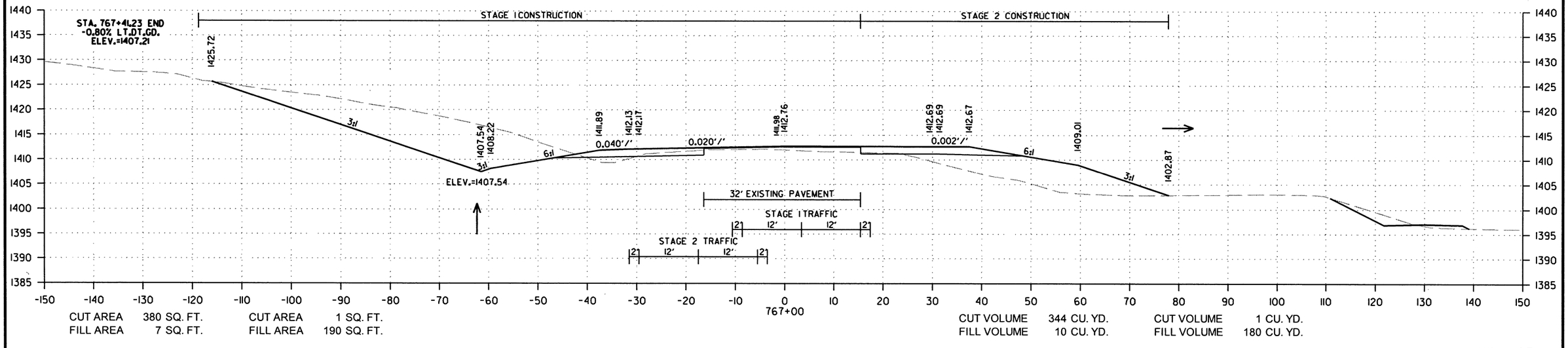
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	467	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





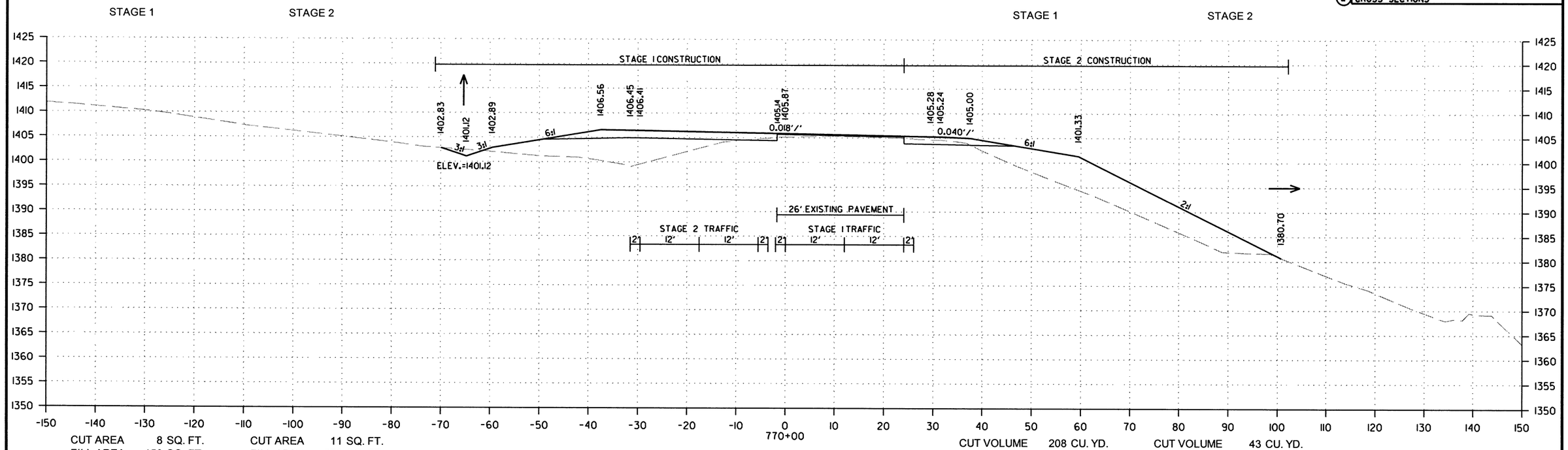
11/13/2018

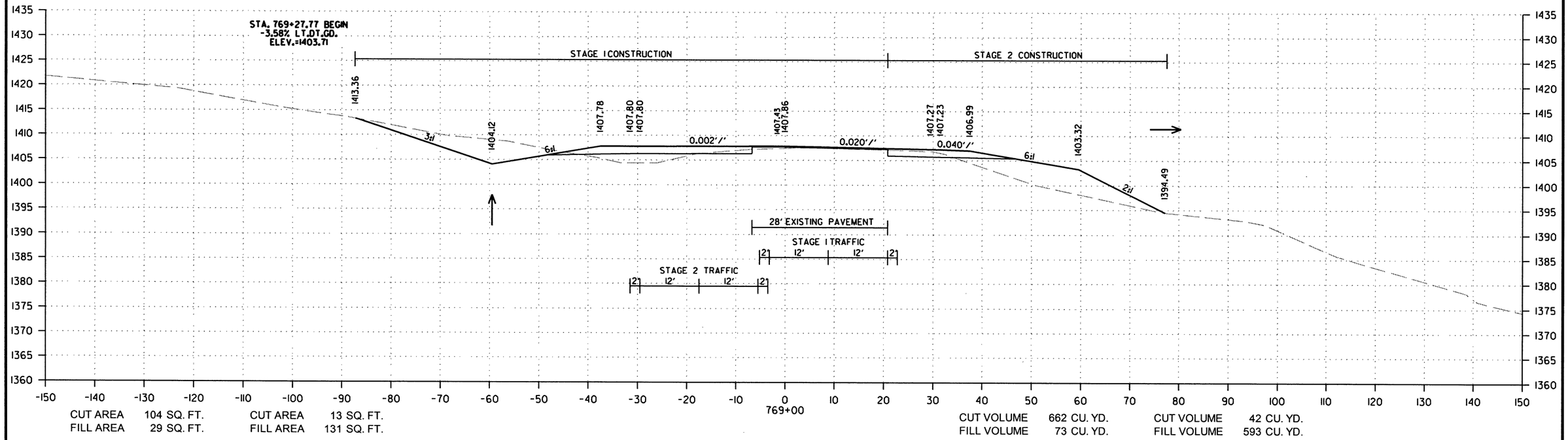
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 767+00 TO STA. 768+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	468	605

(2) CROSS SECTIONS





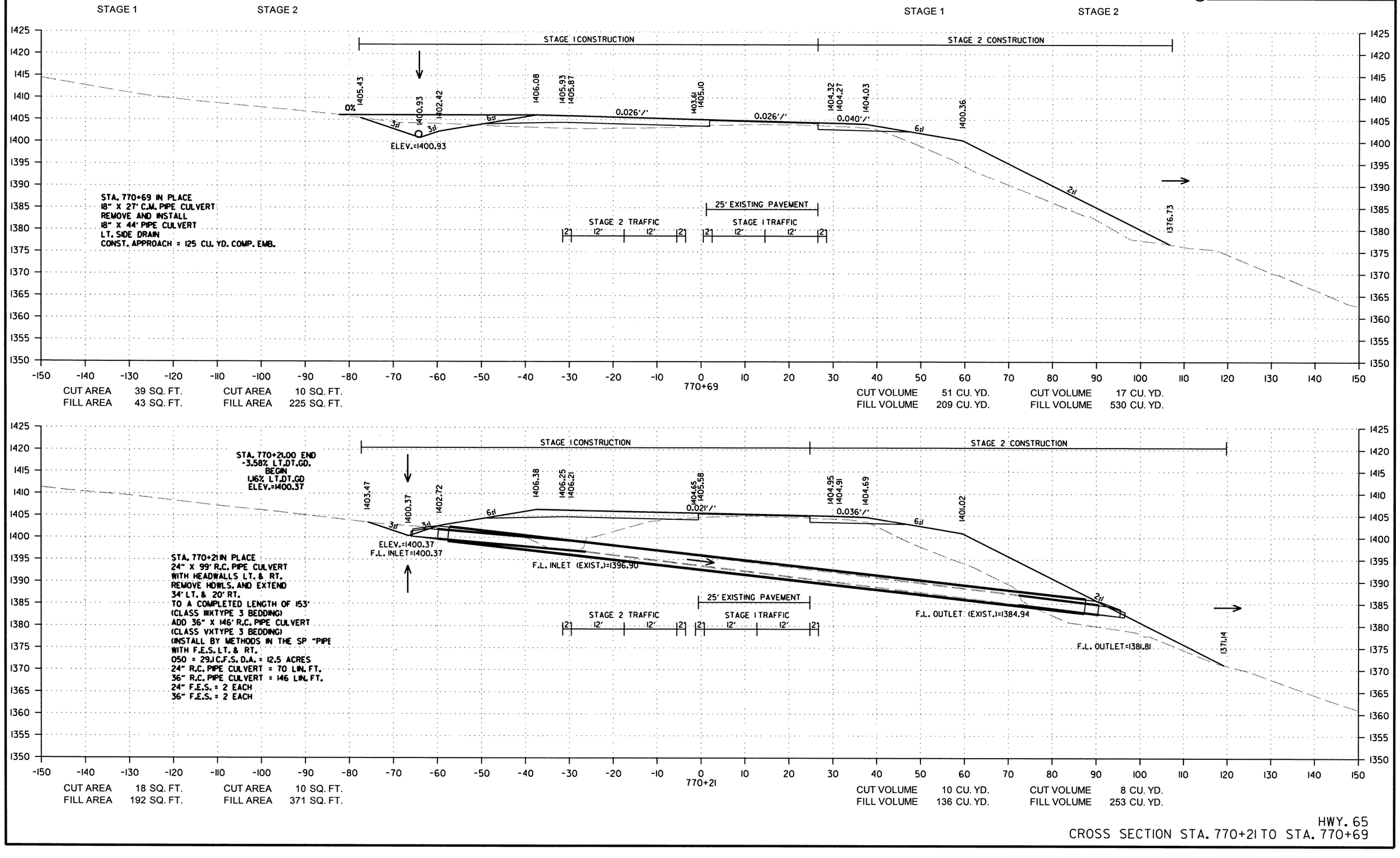
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 769+00 TO STA. 770+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	469	605

(2) CROSS SECTIONS



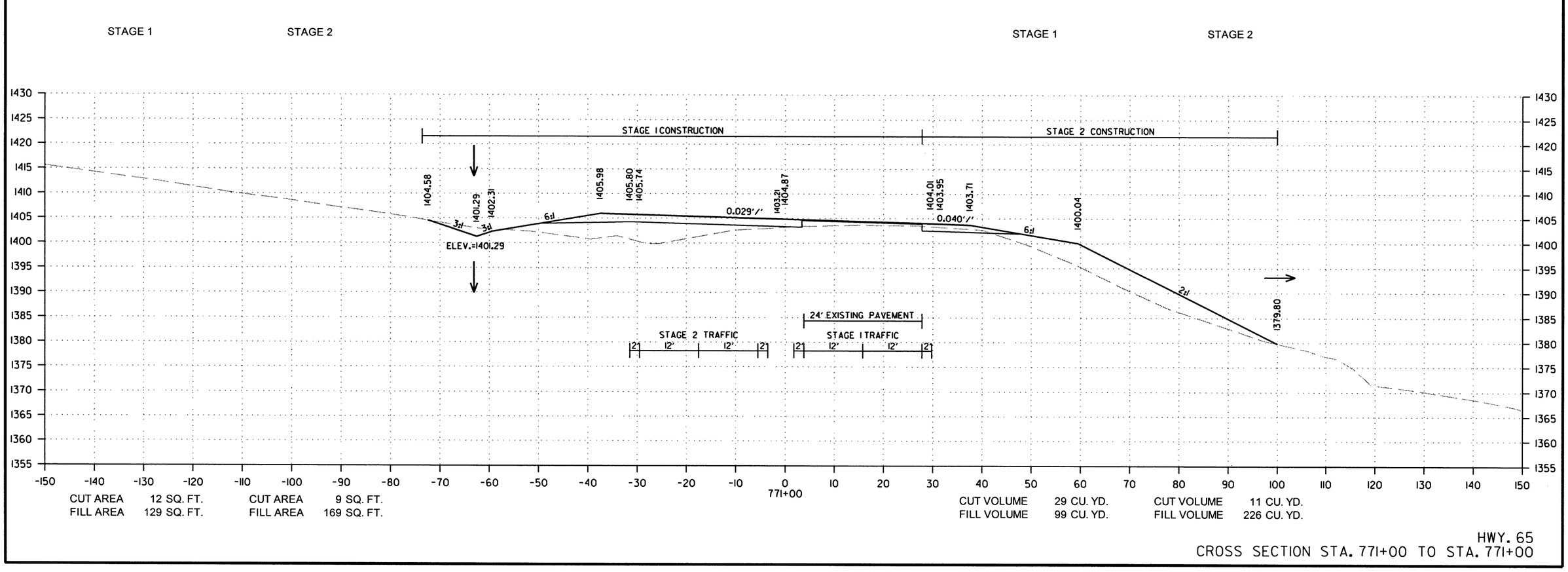
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 770+21 TO STA. 770+69

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	470	605

(2) CROSS SECTIONS



CUT AREA 12 SQ. FT.
FILL AREA 129 SQ. FT.

CUT AREA 9 SQ. FT.
FILL AREA 169 SQ. FT.

CUT VOLUME 29 CU. YD.
FILL VOLUME 99 CU. YD.

CUT VOLUME 11 CU. YD.
FILL VOLUME 226 CU. YD.

HWY. 65
CROSS SECTION STA. 771+00 TO STA. 771+00

11/13/2018

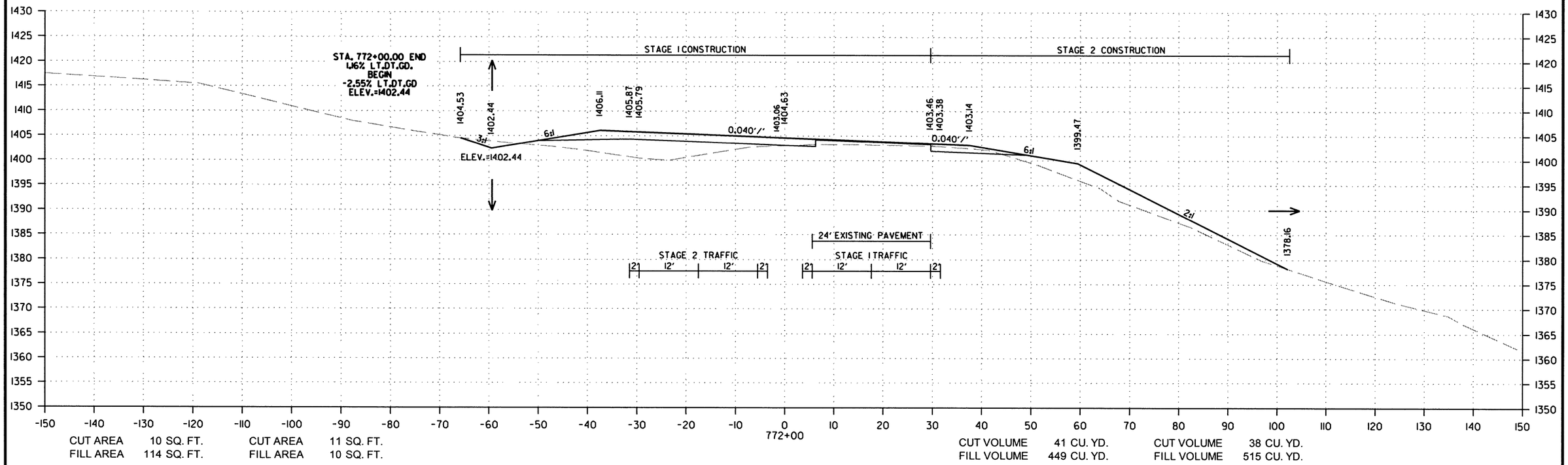
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	471	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 10 SQ. FT. CUT AREA 11 SQ. FT.
FILL AREA 114 SQ. FT. FILL AREA 10 SQ. FT.

CUT VOLUME 41 CU. YD. CUT VOLUME 38 CU. YD.
FILL VOLUME 449 CU. YD. FILL VOLUME 515 CU. YD.

HWY. 65
CROSS SECTION STA. 772+00 TO STA. 772+00

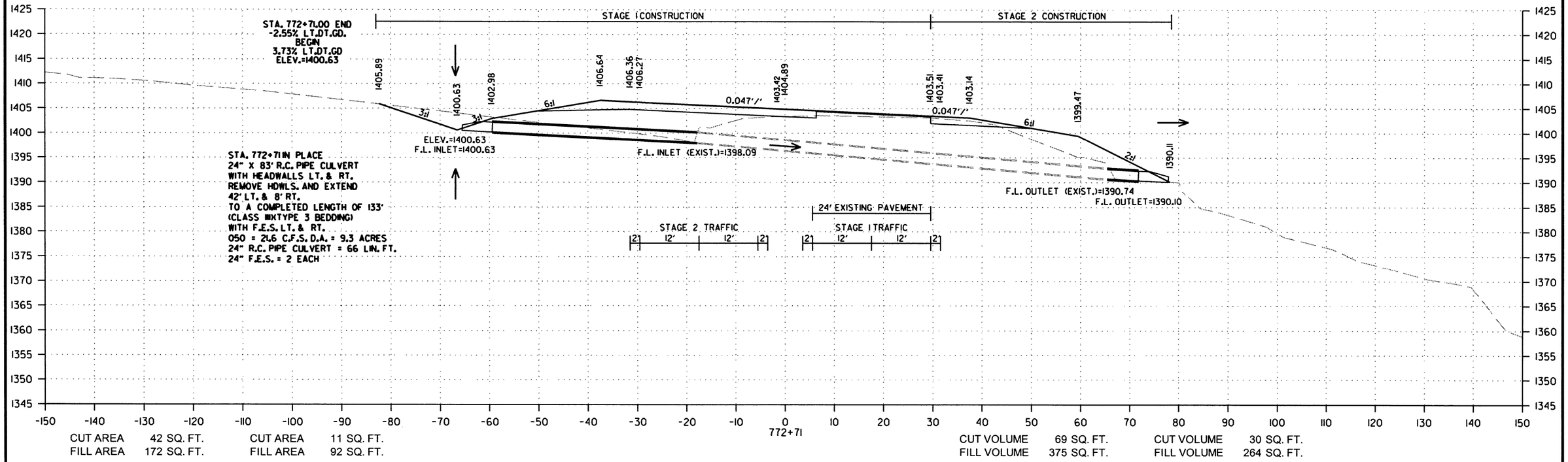
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	472	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 772+71 TO STA. 772+71

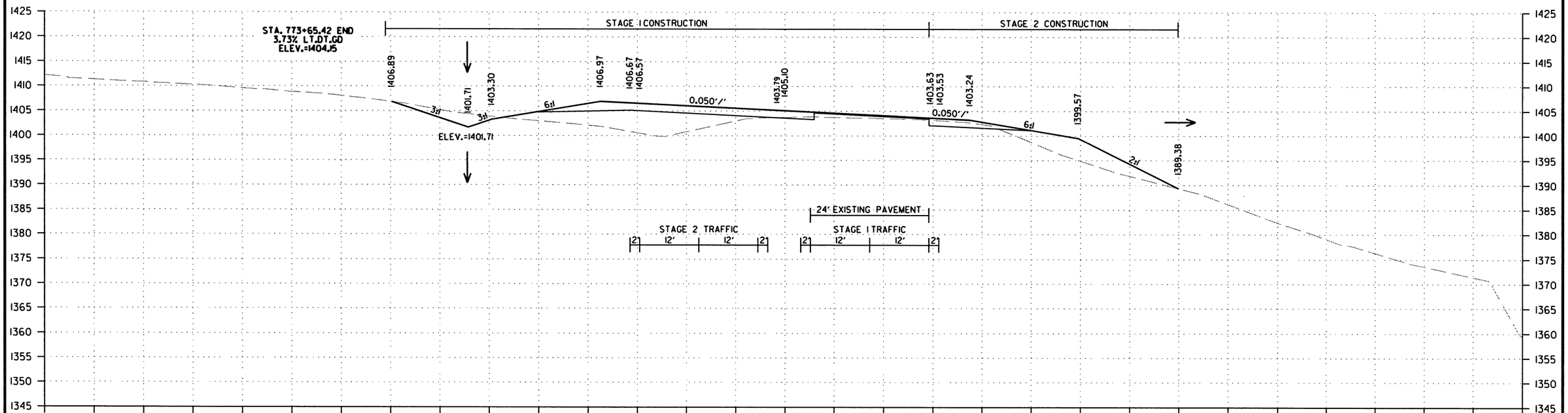
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	473	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 32 SQ. FT. CUT AREA 12 SQ. FT.
FILL AREA 140 SQ. FT. FILL AREA 91 SQ. FT.

CUT VOLUME 40 SQ. FT. CUT VOLUME 13 SQ. FT.
FILL VOLUME 167 SQ. FT. FILL VOLUME 99 SQ. FT.

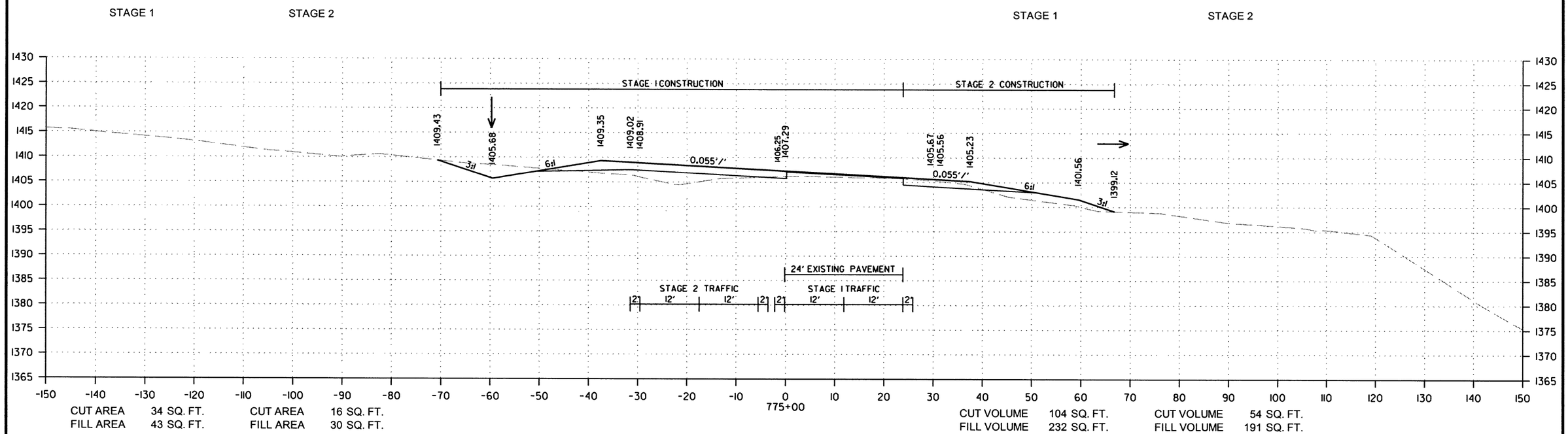
HWY. 65
CROSS SECTION STA. 773+00 TO STA. 773+00

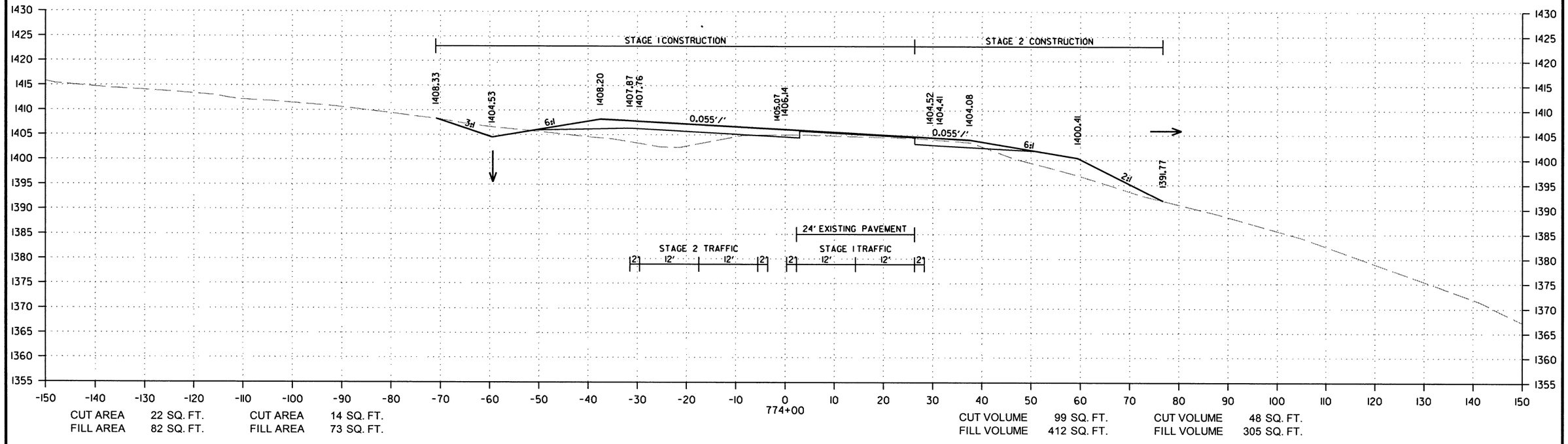
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	474	605

(2) CROSS SECTIONS





11/13/2018

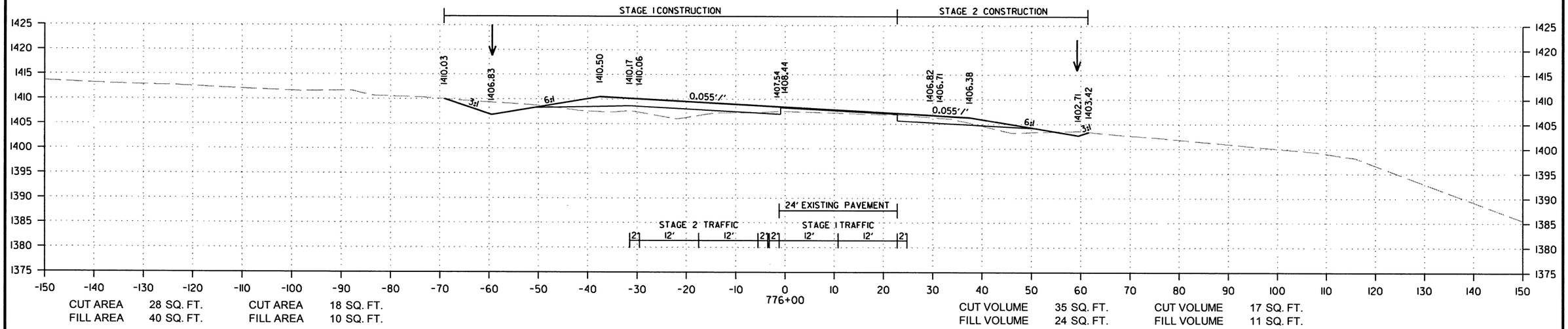
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 774+00 TO STA. 775+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	475	605

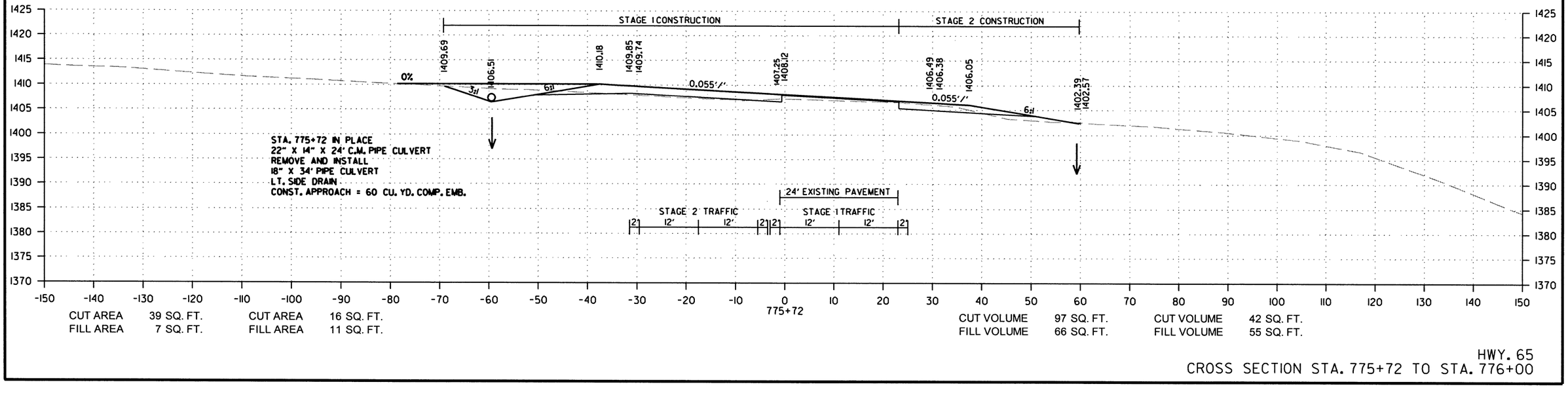
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	28 SQ. FT.	CUT AREA	18 SQ. FT.
FILL AREA	40 SQ. FT.	FILL AREA	10 SQ. FT.

CUT VOLUME	35 SQ. FT.	CUT VOLUME	17 SQ. FT.
FILL VOLUME	24 SQ. FT.	FILL VOLUME	11 SQ. FT.



CUT AREA	39 SQ. FT.	CUT AREA	16 SQ. FT.
FILL AREA	7 SQ. FT.	FILL AREA	11 SQ. FT.

CUT VOLUME	97 SQ. FT.	CUT VOLUME	42 SQ. FT.
FILL VOLUME	66 SQ. FT.	FILL VOLUME	55 SQ. FT.

HWY. 65
CROSS SECTION STA. 775+72 TO STA. 776+00

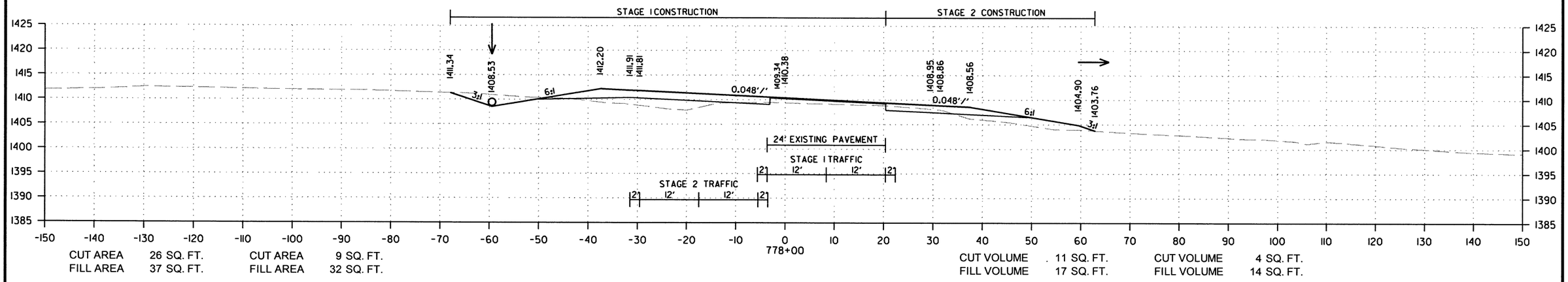
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	476	605

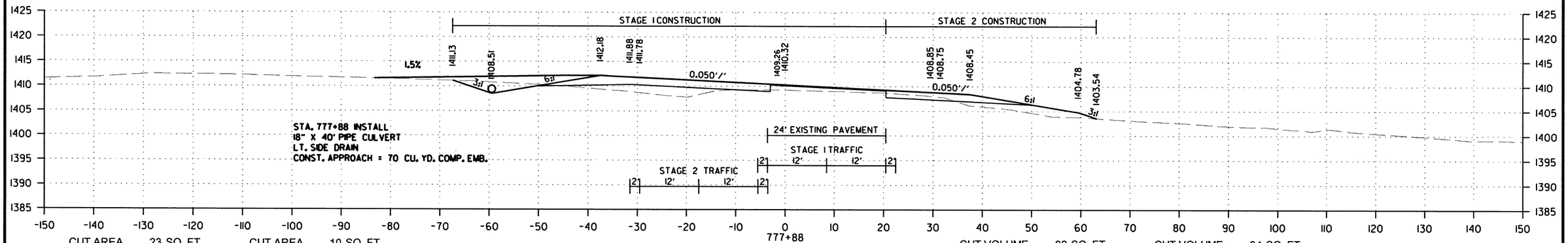
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 26 SQ. FT. CUT AREA 9 SQ. FT.
FILL AREA 37 SQ. FT. FILL AREA 32 SQ. FT.

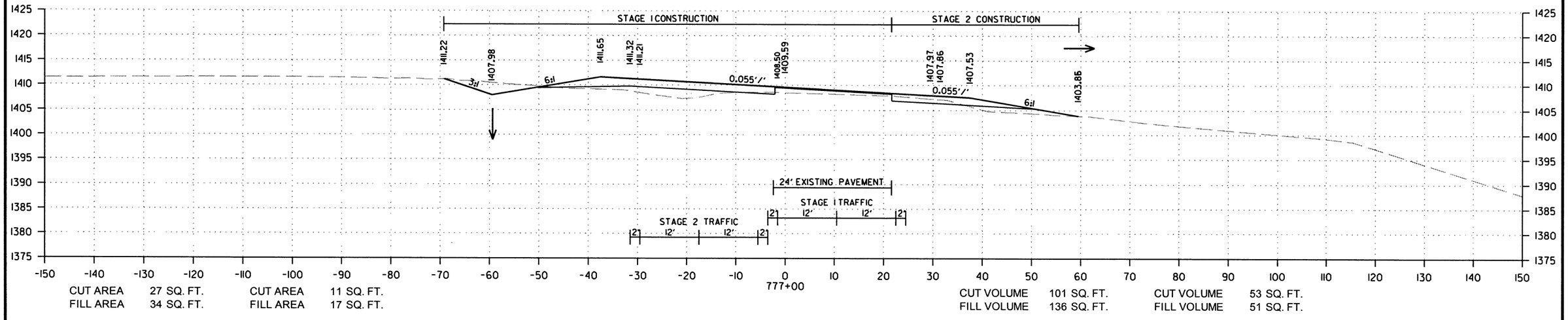
CUT VOLUME 11 SQ. FT. CUT VOLUME 4 SQ. FT.
FILL VOLUME 17 SQ. FT. FILL VOLUME 14 SQ. FT.



STA. 777+88 INSTALL
18" X 40' PIPE CULVERT
LT. SIDE DRAIN
CONST. APPROACH = 70 CU. YD. COMP. EMB.

CUT AREA 23 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 39 SQ. FT. FILL AREA 32 SQ. FT.

CUT VOLUME 82 SQ. FT. CUT VOLUME 34 SQ. FT.
FILL VOLUME 118 SQ. FT. FILL VOLUME 80 SQ. FT.



CUT AREA 27 SQ. FT. CUT AREA 11 SQ. FT.
FILL AREA 34 SQ. FT. FILL AREA 17 SQ. FT.

CUT VOLUME 101 SQ. FT. CUT VOLUME 53 SQ. FT.
FILL VOLUME 136 SQ. FT. FILL VOLUME 51 SQ. FT.

HWY. 65
CROSS SECTION STA. 777+00 TO STA. 778+00

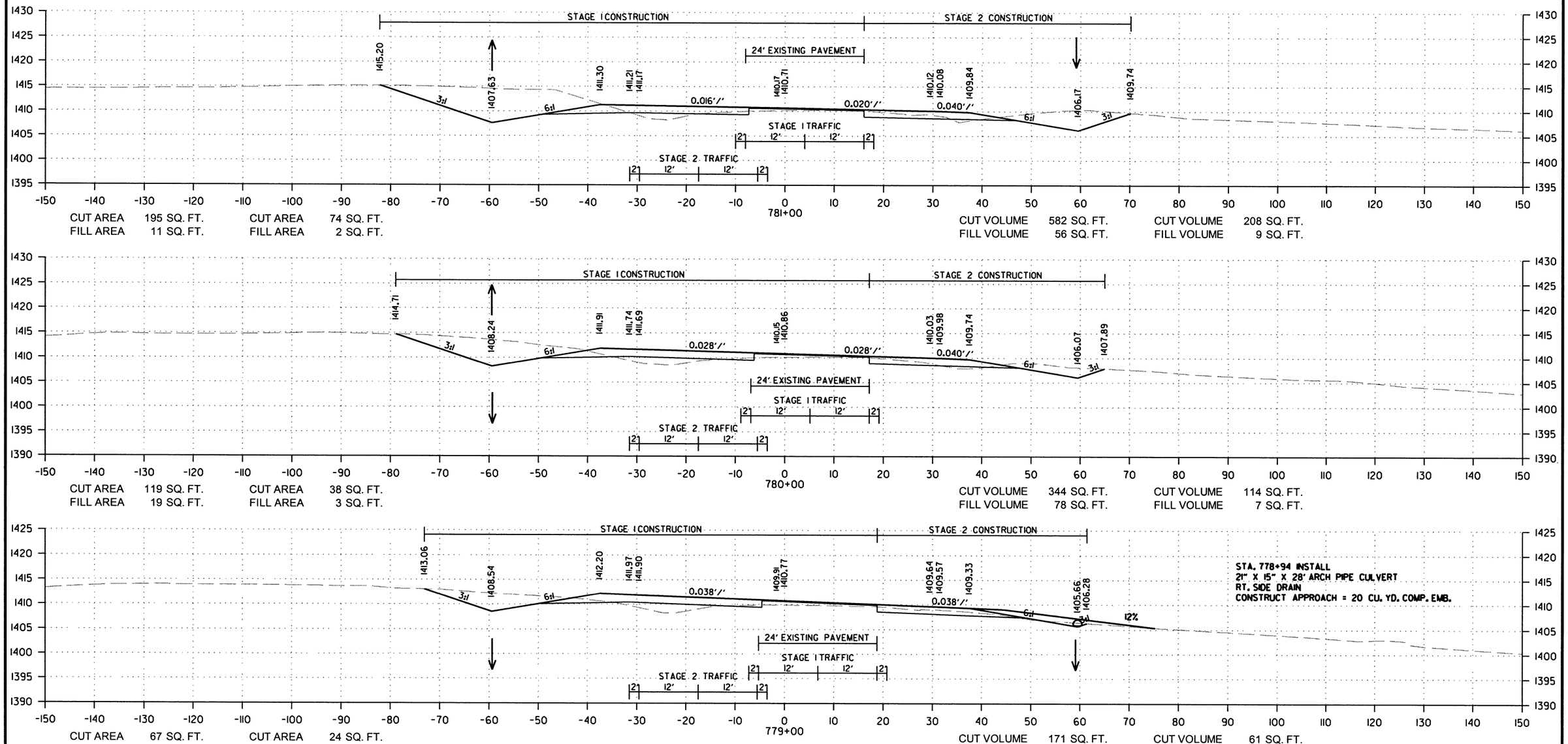
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	477	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



781+00
CUT AREA 195 SQ. FT. CUT AREA 74 SQ. FT.
FILL AREA 11 SQ. FT. FILL AREA 2 SQ. FT.
CUT VOLUME 582 SQ. FT. CUT VOLUME 208 SQ. FT.
FILL VOLUME 56 SQ. FT. FILL VOLUME 9 SQ. FT.

780+00
CUT AREA 119 SQ. FT. CUT AREA 38 SQ. FT.
FILL AREA 19 SQ. FT. FILL AREA 3 SQ. FT.
CUT VOLUME 344 SQ. FT. CUT VOLUME 114 SQ. FT.
FILL VOLUME 78 SQ. FT. FILL VOLUME 7 SQ. FT.

779+00
CUT AREA 67 SQ. FT. CUT AREA 24 SQ. FT.
FILL AREA 23 SQ. FT. FILL AREA 1 SQ. FT.
CUT VOLUME 171 SQ. FT. CUT VOLUME 61 SQ. FT.
FILL VOLUME 110 SQ. FT. FILL VOLUME 62 SQ. FT.

11/13/2018

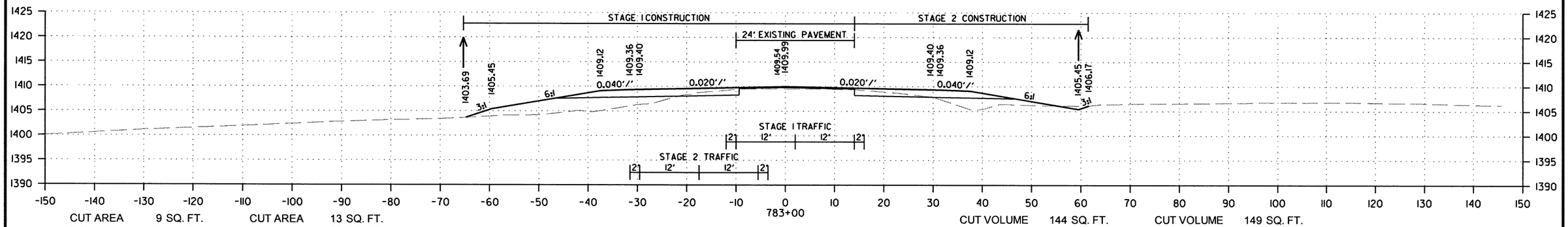
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 779+00 TO STA. 781+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	478	605

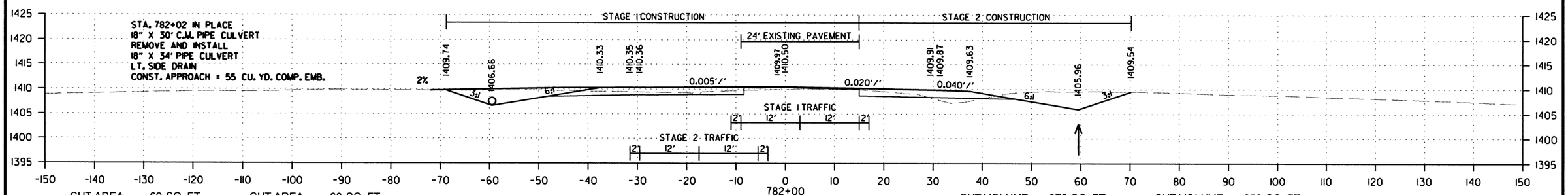
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



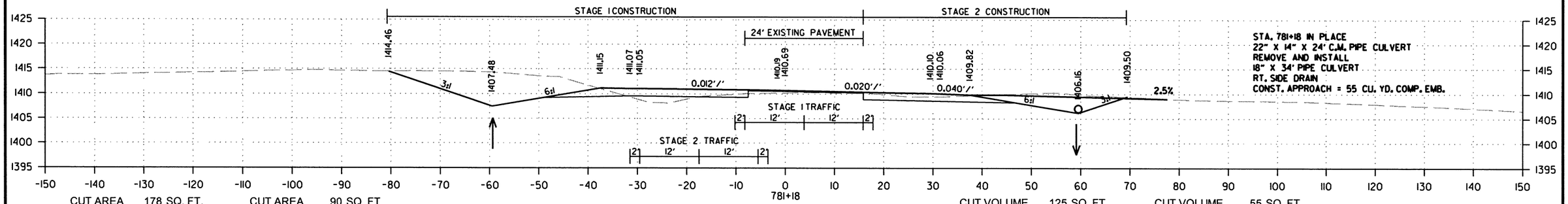
CUT AREA 9 SQ. FT. CUT AREA 13 SQ. FT.
FILL AREA 83 SQ. FT. FILL AREA 30 SQ. FT.

CUT VOLUME 144 SQ. FT. CUT VOLUME 149 SQ. FT.
FILL VOLUME 154 SQ. FT. FILL VOLUME 68 SQ. FT.



CUT AREA 69 SQ. FT. CUT AREA 68 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 7 SQ. FT.

CUT VOLUME 375 SQ. FT. CUT VOLUME 253 SQ. FT.
FILL VOLUME 18 SQ. FT. FILL VOLUME 10 SQ. FT.



CUT AREA 178 SQ. FT. CUT AREA 90 SQ. FT.
FILL AREA 12 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 125 SQ. FT. CUT VOLUME 55 SQ. FT.
FILL VOLUME 8 SQ. FT. FILL VOLUME 1 SQ. FT.

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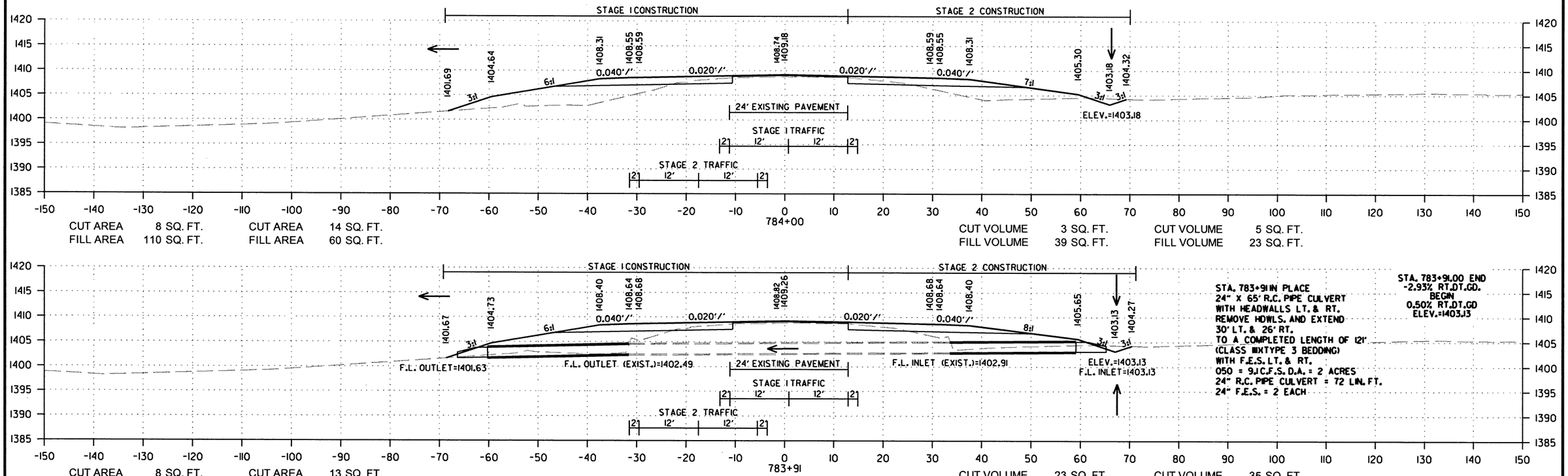
HWY. 65
CROSS SECTION STA. 781+18 TO STA. 783+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	479	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 8 SQ. FT. CUT AREA 14 SQ. FT. CUT VOLUME 3 SQ. FT. CUT VOLUME 5 SQ. FT.
FILL AREA 110 SQ. FT. FILL AREA 60 SQ. FT. FILL VOLUME 39 SQ. FT. FILL VOLUME 23 SQ. FT.

CUT AREA 8 SQ. FT. CUT AREA 13 SQ. FT. CUT VOLUME 23 SQ. FT. CUT VOLUME 35 SQ. FT.
FILL AREA 125 SQ. FT. FILL AREA 77 SQ. FT. FILL VOLUME 296 SQ. FT. FILL VOLUME 121 SQ. FT.

CUT AREA 8 SQ. FT. CUT AREA 12 SQ. FT. CUT VOLUME 5 SQ. FT. CUT VOLUME 7 SQ. FT.
FILL AREA 88 SQ. FT. FILL AREA 10 SQ. FT. FILL VOLUME 51 SQ. FT. FILL VOLUME 12 SQ. FT.

STA. 783+91 IN PLACE
24" X 65' R.C. PIPE CULVERT
WITH HEADWALLS LT. & RT.
REMOVE HDWLS. AND EXTEND
30' LT. & 26' RT.
TO A COMPLETED LENGTH OF 121'
(CLASS IIIXTYPE 3 BEDDING)
WITH F.E.S. LT. & RT.
050 = 9.1C.F.S. D.A. = 2 ACRES
24" R.C. PIPE CULVERT = 72 LIN. FT.
24" F.E.S. = 2 EACH

STA. 783+91.00 END
-2.93% RT.DT.GD.
BEGIN
0.50% RT.DT.GD
ELEV.=1403.13

STA. 783+50.00 BEGIN
-2.93% RT.DT.GD.
ELEV.=1404.33

STA. 783+16 IN PLACE
22" X 14" X 24' C.M. PIPE CULVERT
REMOVE AND INSTALL
18" X 28' PIPE CULVERT
RT. SIDE DRAIN
CONST. APPROACH = 25 CU. YD. COMP. EMB.

HWY. 65
CROSS SECTION STA. 783+16 TO STA. 784+00

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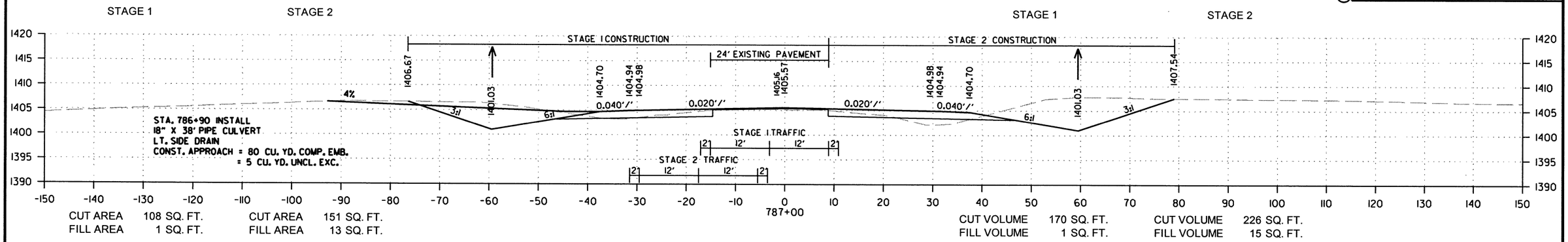
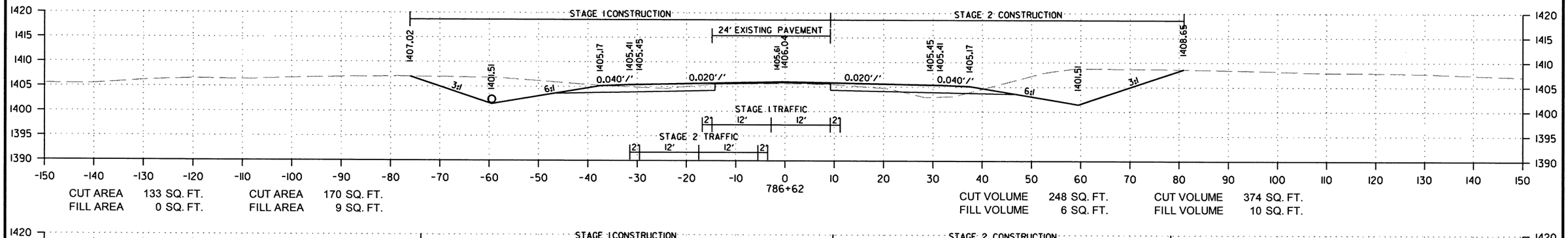
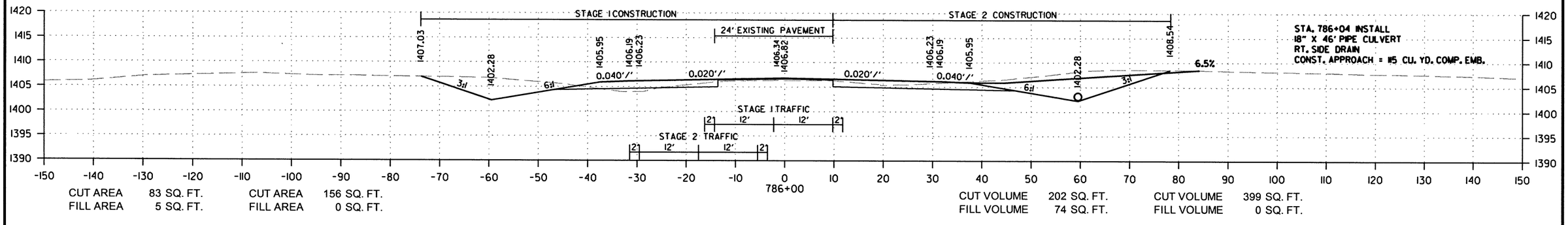
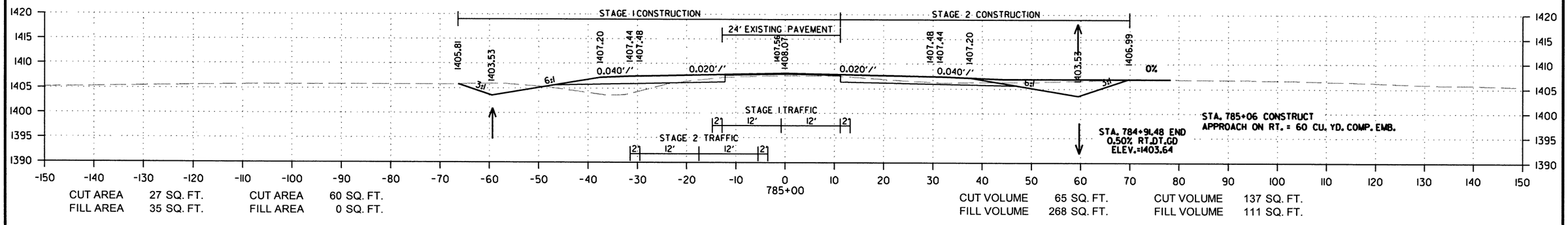
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	480	605

(2) CROSS SECTIONS









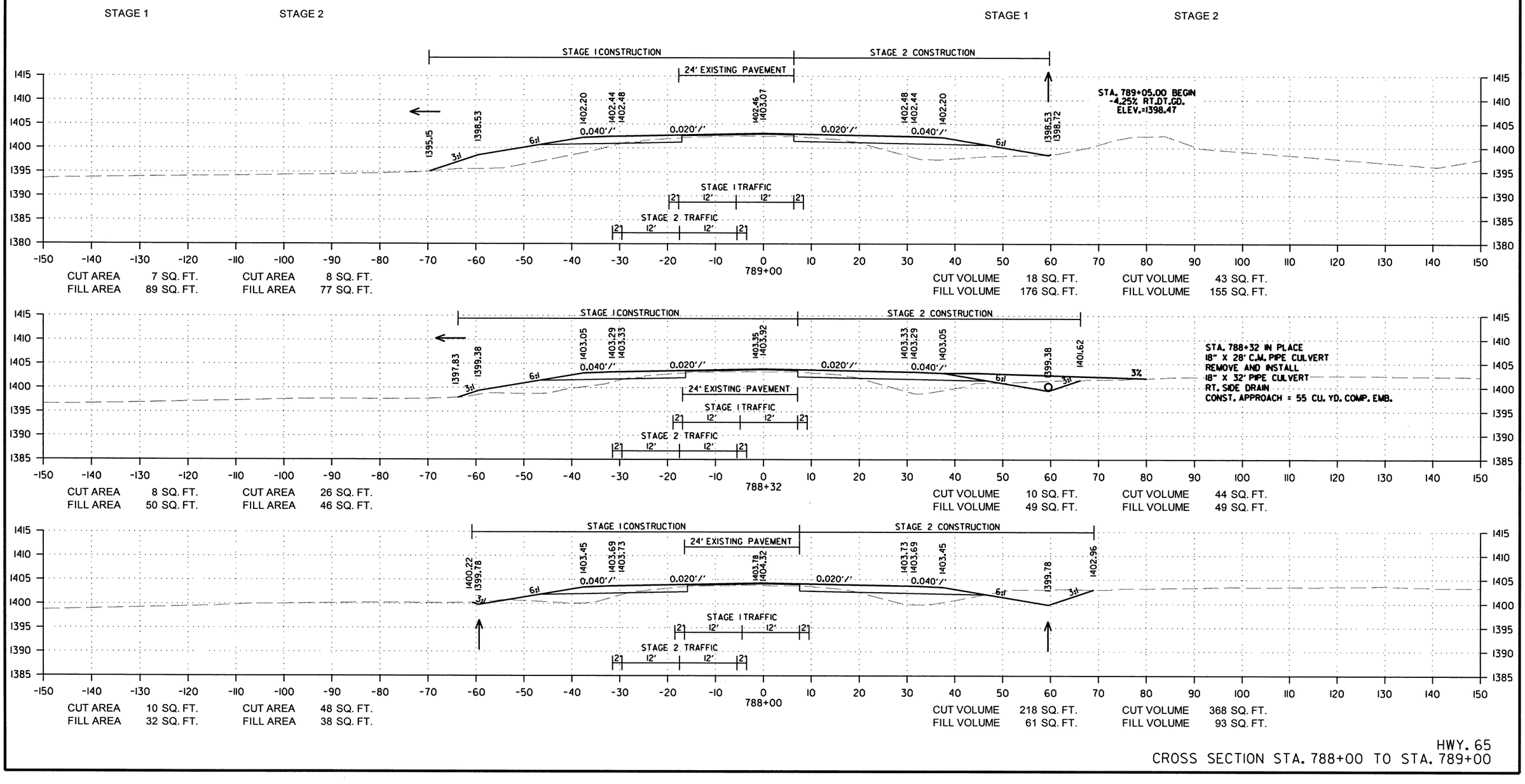
HWY. 65
CROSS SECTION STA. 785+00 TO STA. 787+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	481	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 788+00 TO STA. 789+00

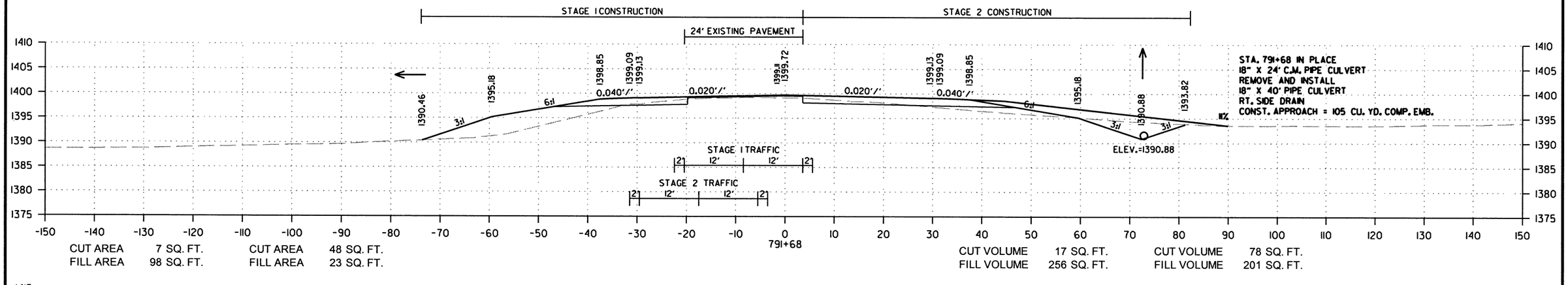
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	482	605

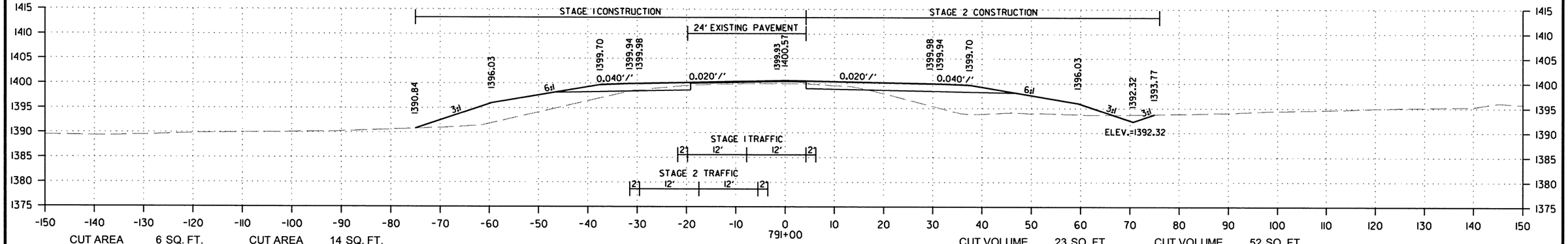
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



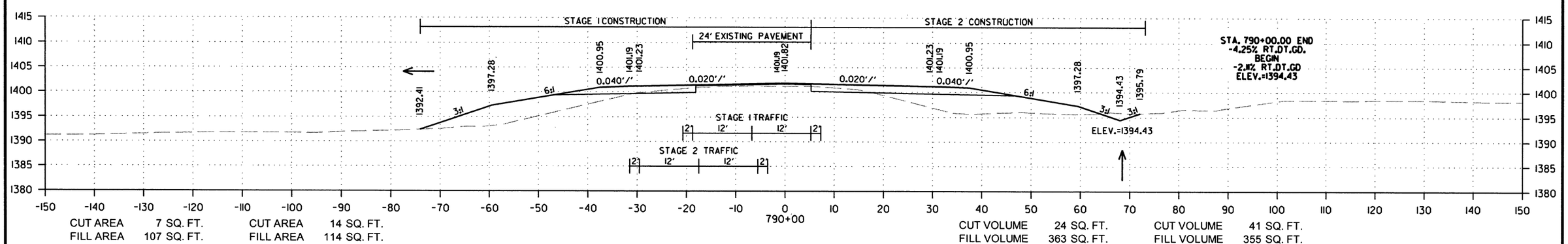
CUT AREA 7 SQ. FT. CUT AREA 48 SQ. FT.
FILL AREA 98 SQ. FT. FILL AREA 23 SQ. FT.

CUT VOLUME 17 SQ. FT. CUT VOLUME 78 SQ. FT.
FILL VOLUME 256 SQ. FT. FILL VOLUME 201 SQ. FT.



CUT AREA 6 SQ. FT. CUT AREA 14 SQ. FT.
FILL AREA 106 SQ. FT. FILL AREA 137 SQ. FT.

CUT VOLUME 23 SQ. FT. CUT VOLUME 52 SQ. FT.
FILL VOLUME 394 SQ. FT. FILL VOLUME 466 SQ. FT.



CUT AREA 7 SQ. FT. CUT AREA 14 SQ. FT.
FILL AREA 107 SQ. FT. FILL AREA 114 SQ. FT.

CUT VOLUME 24 SQ. FT. CUT VOLUME 41 SQ. FT.
FILL VOLUME 363 SQ. FT. FILL VOLUME 355 SQ. FT.

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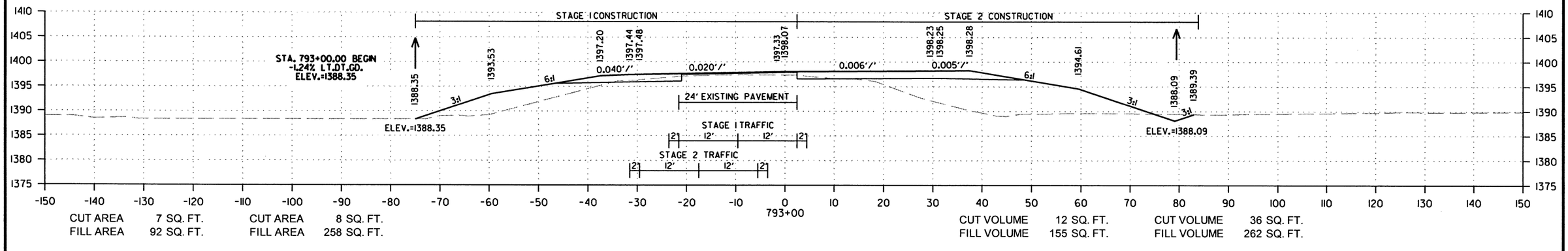
HWY. 65
CROSS SECTION STA. 790+00 TO STA. 791+68

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	483	605

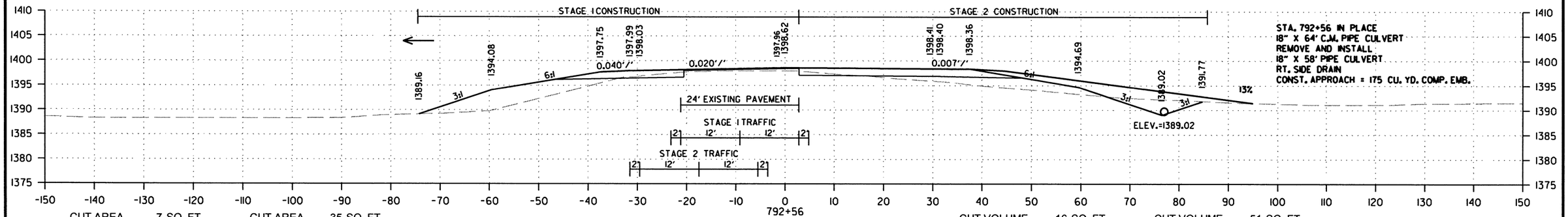
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



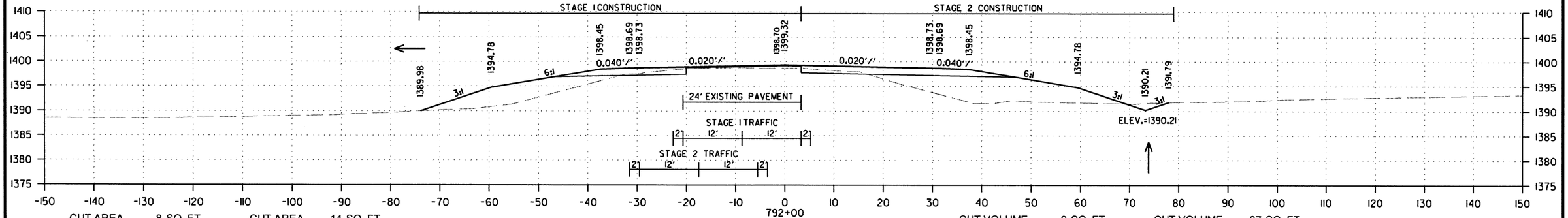
CUT AREA 7 SQ. FT. CUT AREA 8 SQ. FT.
FILL AREA 92 SQ. FT. FILL AREA 258 SQ. FT.

CUT VOLUME 12 SQ. FT. CUT VOLUME 36 SQ. FT.
FILL VOLUME 155 SQ. FT. FILL VOLUME 262 SQ. FT.



CUT AREA 7 SQ. FT. CUT AREA 35 SQ. FT.
FILL AREA 98 SQ. FT. FILL AREA 63 SQ. FT.

CUT VOLUME 16 SQ. FT. CUT VOLUME 51 SQ. FT.
FILL VOLUME 204 SQ. FT. FILL VOLUME 243 SQ. FT.



CUT AREA 8 SQ. FT. CUT AREA 14 SQ. FT.
FILL AREA 99 SQ. FT. FILL AREA 171 SQ. FT.

CUT VOLUME 9 SQ. FT. CUT VOLUME 37 SQ. FT.
FILL VOLUME 117 SQ. FT. FILL VOLUME 114 SQ. FT.

HWY. 65
CROSS SECTION STA. 792+00 TO STA. 793+00

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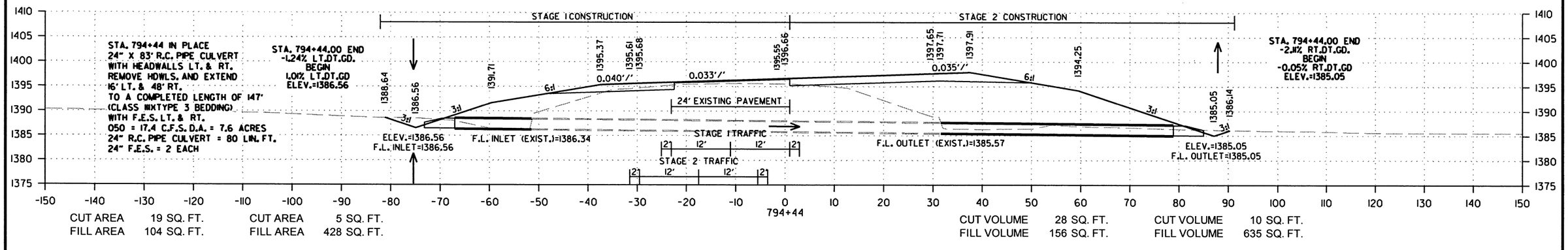
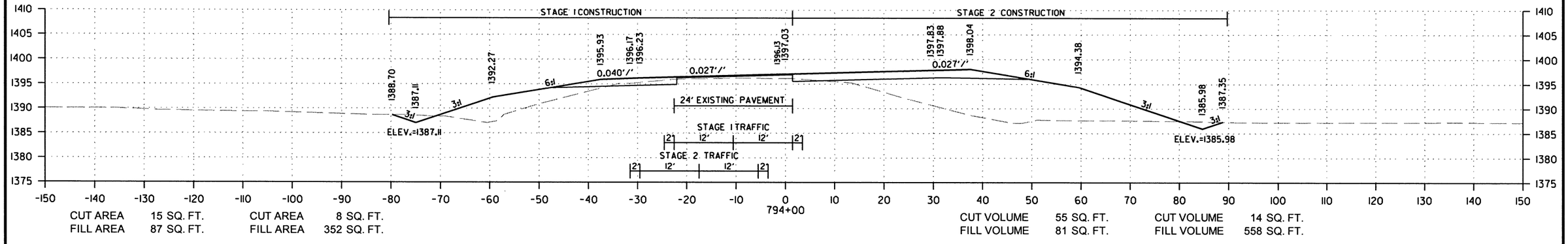
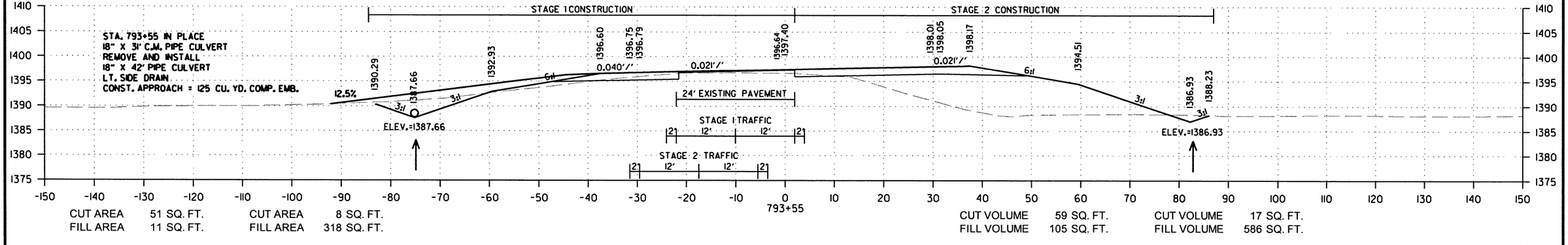
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	484	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2







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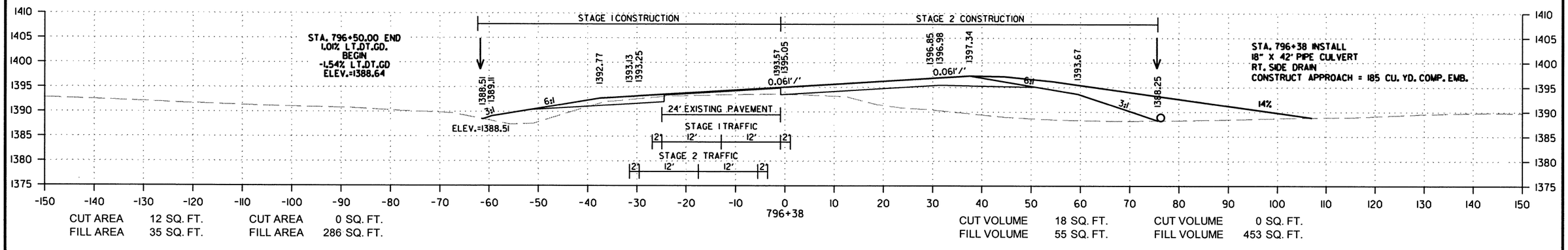
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 793+55 TO STA. 794+44

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	485	605

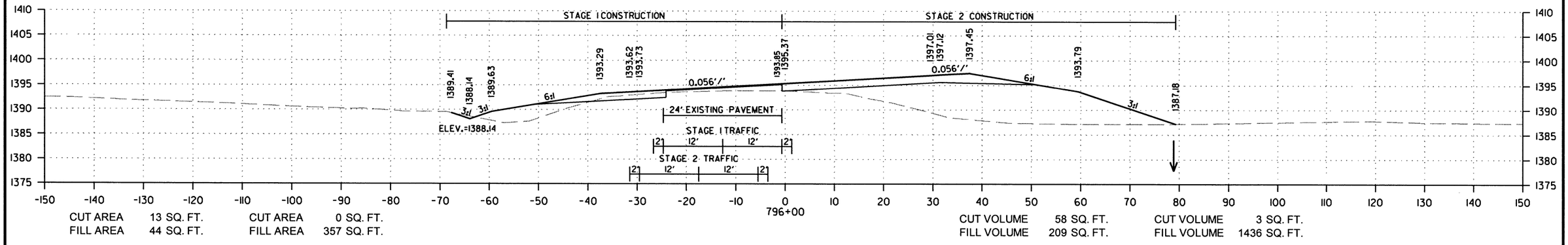
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



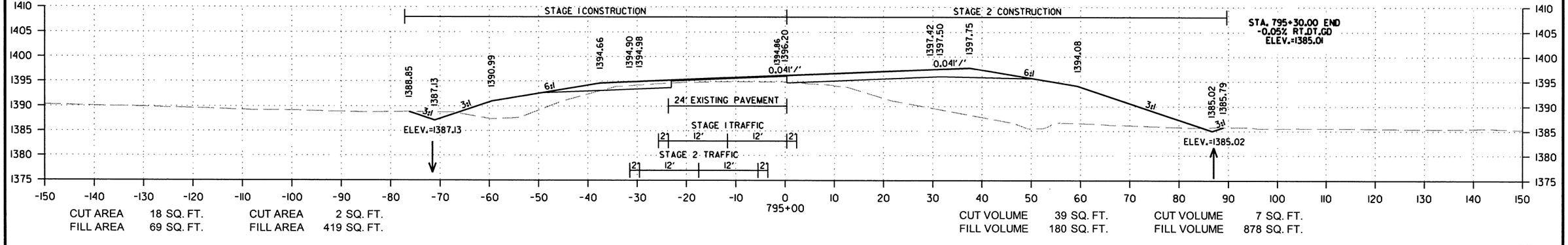
CUT AREA 12 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 35 SQ. FT. FILL AREA 286 SQ. FT.

CUT VOLUME 18 SQ. FT. CUT VOLUME 0 SQ. FT.
FILL VOLUME 55 SQ. FT. FILL VOLUME 453 SQ. FT.



CUT AREA 13 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 44 SQ. FT. FILL AREA 357 SQ. FT.

CUT VOLUME 58 SQ. FT. CUT VOLUME 3 SQ. FT.
FILL VOLUME 209 SQ. FT. FILL VOLUME 1436 SQ. FT.



CUT AREA 18 SQ. FT. CUT AREA 2 SQ. FT.
FILL AREA 69 SQ. FT. FILL AREA 419 SQ. FT.

CUT VOLUME 39 SQ. FT. CUT VOLUME 7 SQ. FT.
FILL VOLUME 180 SQ. FT. FILL VOLUME 878 SQ. FT.

HWY. 65
CROSS SECTION STA. 795+00 TO STA. 796+38

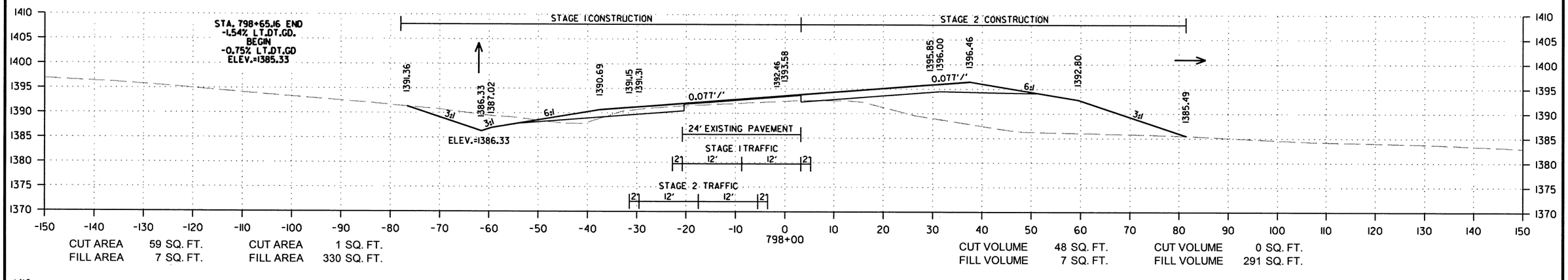
11/13/2018

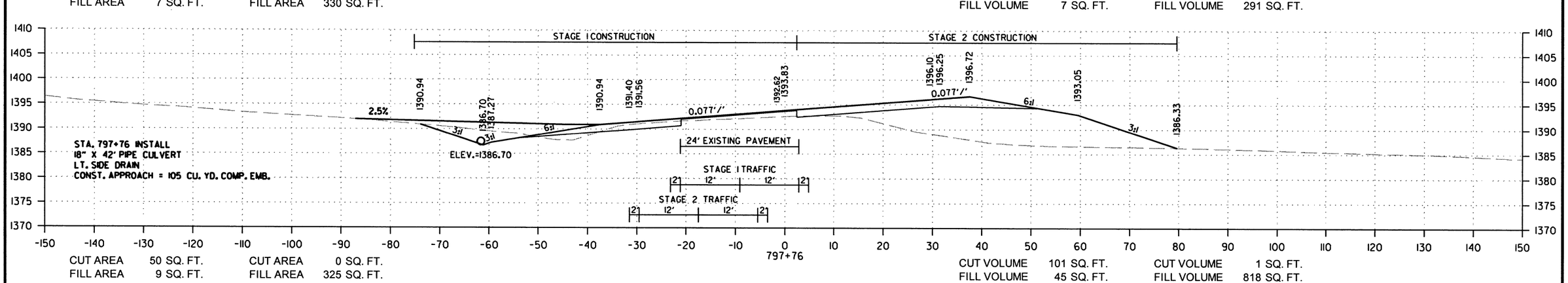
RCA0801.DGN

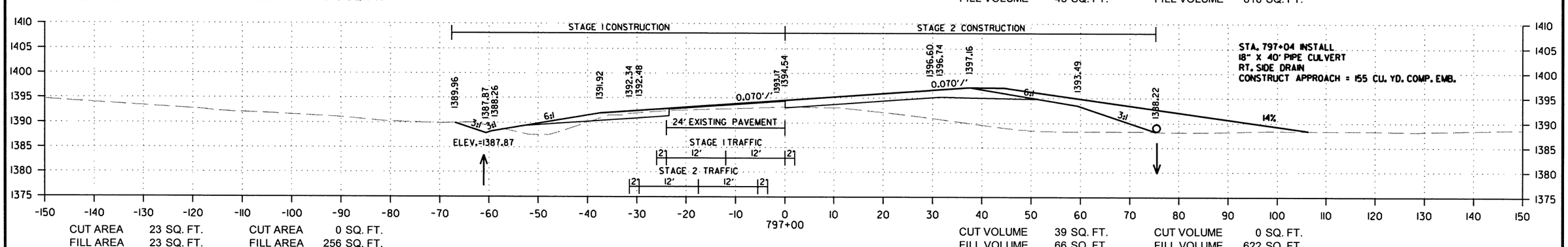
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	486	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2







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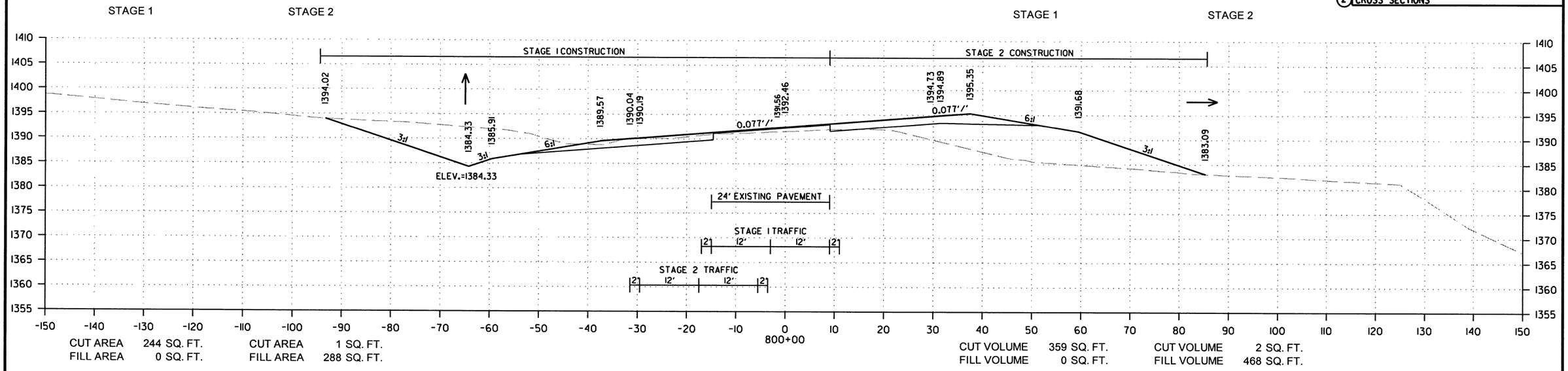
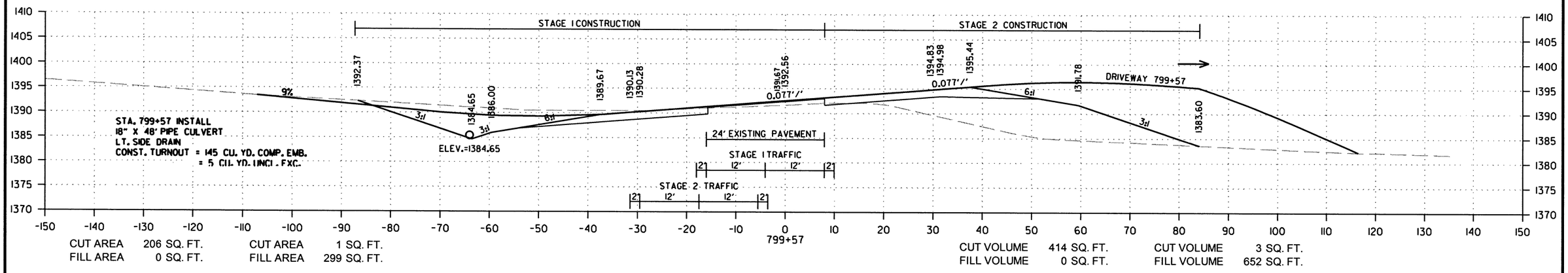
RCA0801.DGN

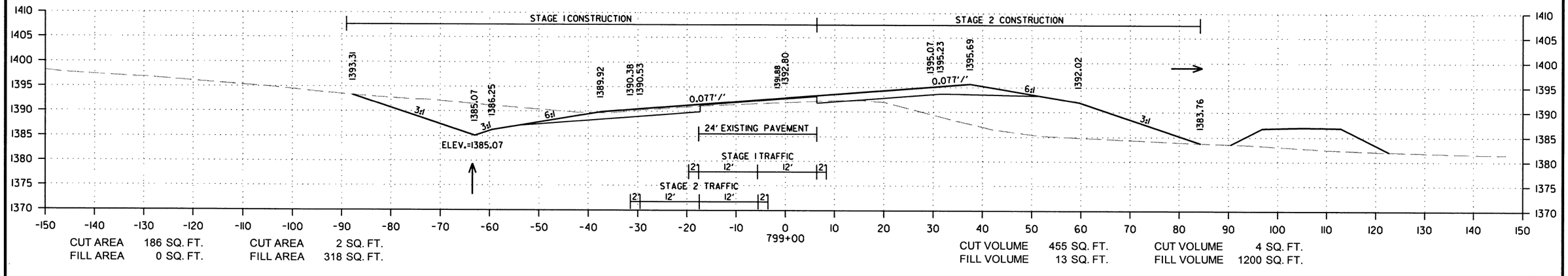
HWY. 65
CROSS SECTION STA. 797+00 TO STA. 798+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	487	605

(2) CROSS SECTIONS







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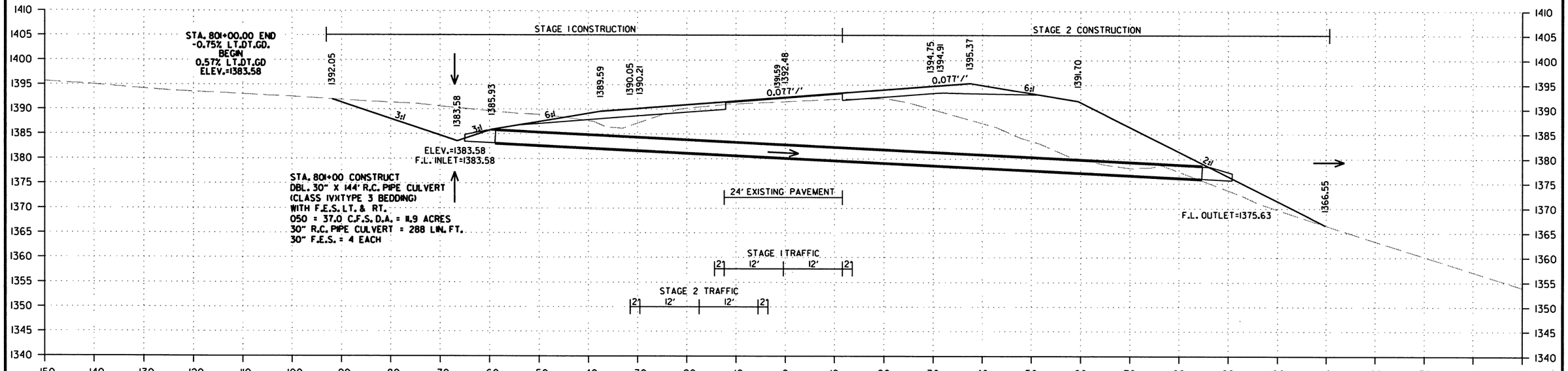
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 799+00 TO STA. 800+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	488	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 168 SQ. FT. CUT AREA 0 SQ. FT.
FILL AREA 20 SQ. FT. FILL AREA 471 SQ. FT.

CUT VOLUME 764 SQ. FT. CUT VOLUME 2 SQ. FT.
FILL VOLUME 36 SQ. FT. FILL VOLUME 1406 SQ. FT.

HWY. 65
CROSS SECTION STA. 801+00 TO STA. 801+00

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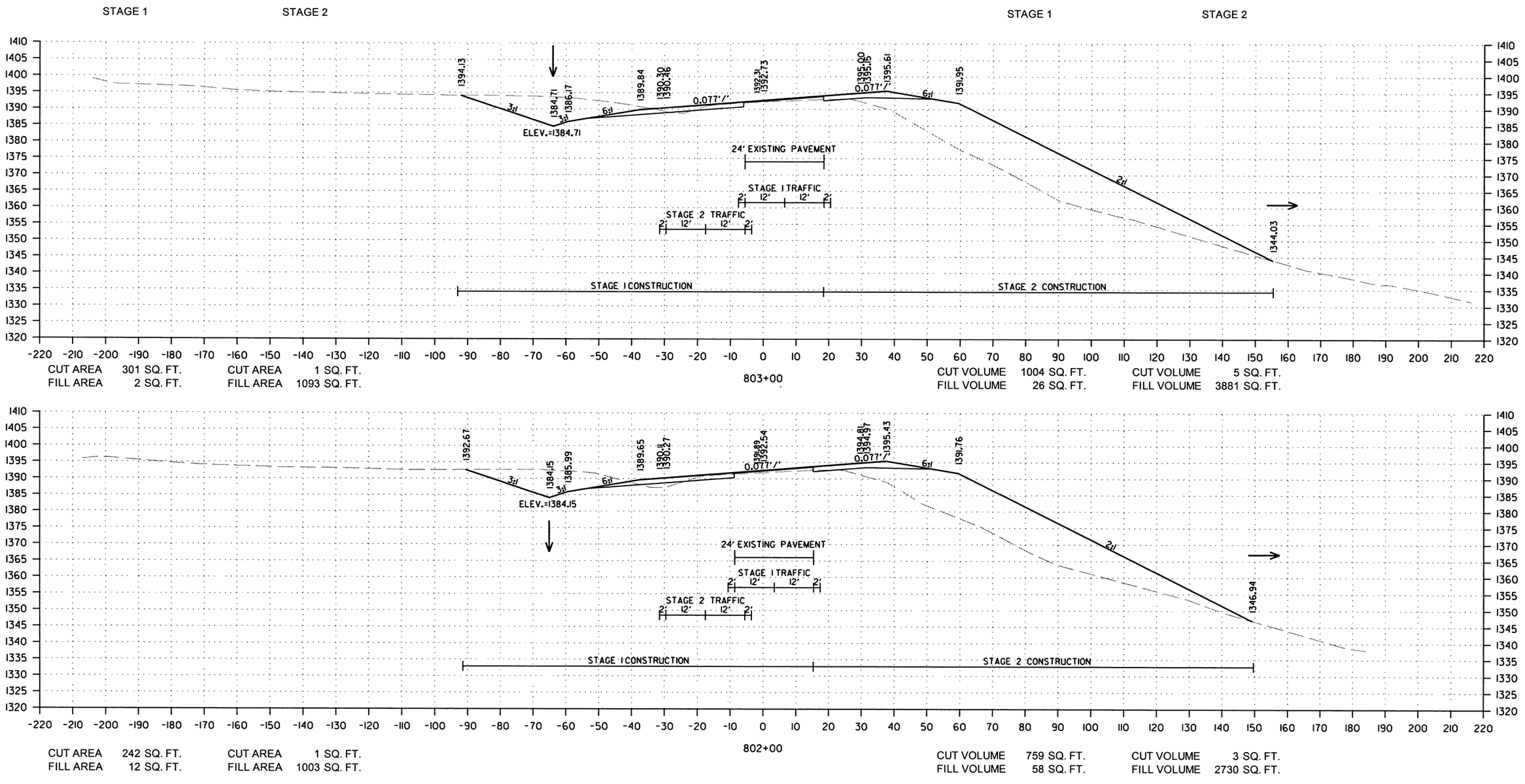
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	489	605

(2) CROSS SECTIONS



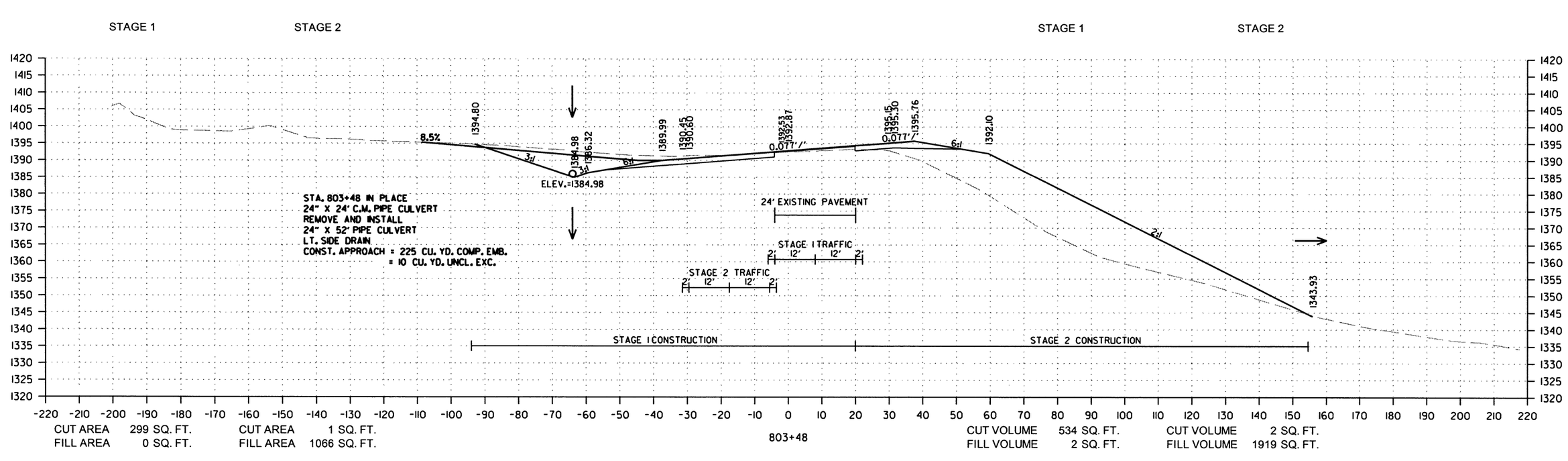
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 802+00 TO STA. 803+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	490	605

(2) CROSS SECTIONS



11/13/2018

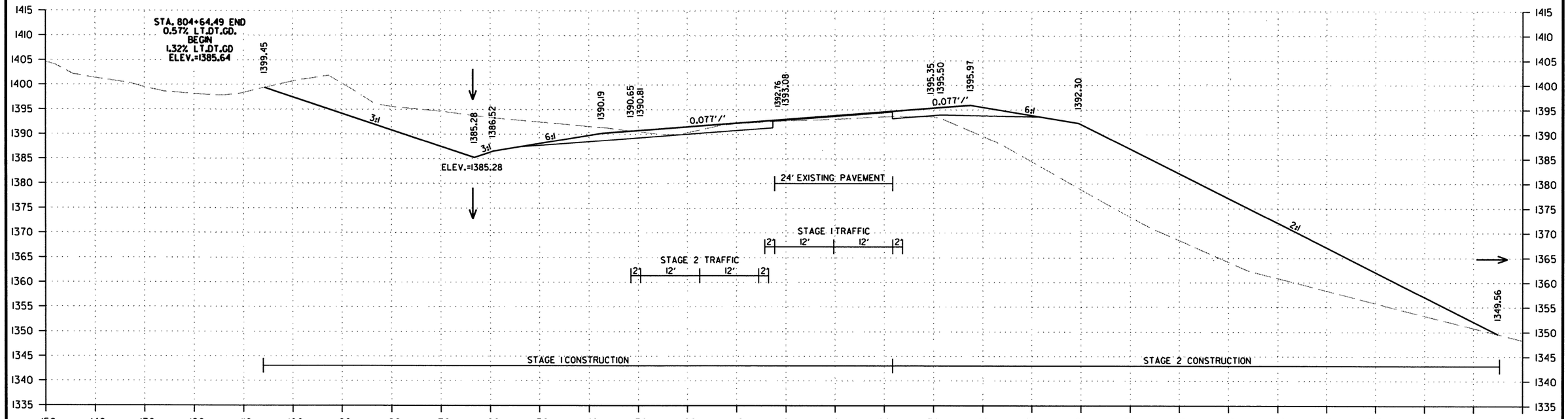
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 803+48 TO STA. 803+48

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	491	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 394 SQ. FT. CUT AREA 1 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 982 SQ. FT.

CUT VOLUME 668 SQ. FT. CUT VOLUME 2 SQ. FT.
FILL VOLUME 0 SQ. FT. FILL VOLUME 1972 SQ. FT.

HWY. 65
CROSS SECTION STA. 804+00 TO STA. 804+00

11/13/2018

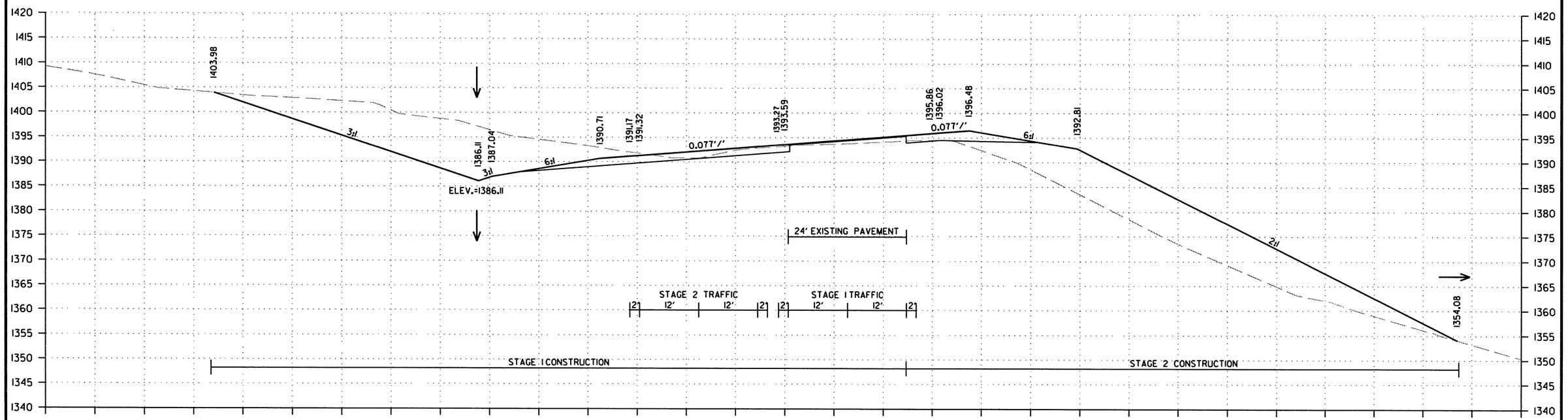
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	492	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 557 SQ. FT.
FILL AREA 0 SQ. FT.

CUT AREA 2 SQ. FT.
FILL AREA 608 SQ. FT.

CUT VOLUME 1761 SQ. FT.
FILL VOLUME 0 SQ. FT.

CUT VOLUME 5 SQ. FT.
FILL VOLUME 2945 SQ. FT.

HWY. 65
CROSS SECTION STA. 805+00 TO STA. 805+00

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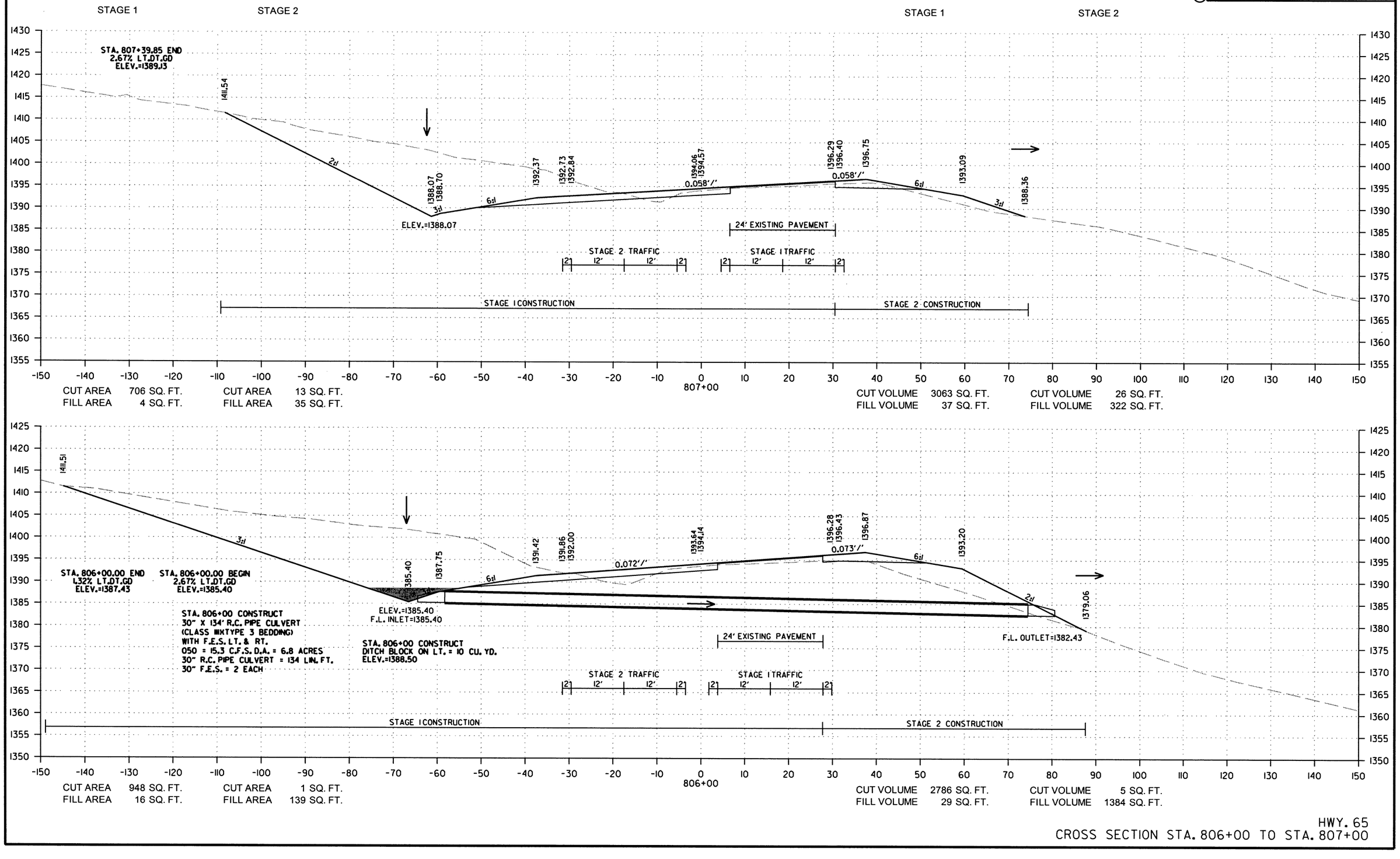
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	493	605

(2) CROSS SECTIONS



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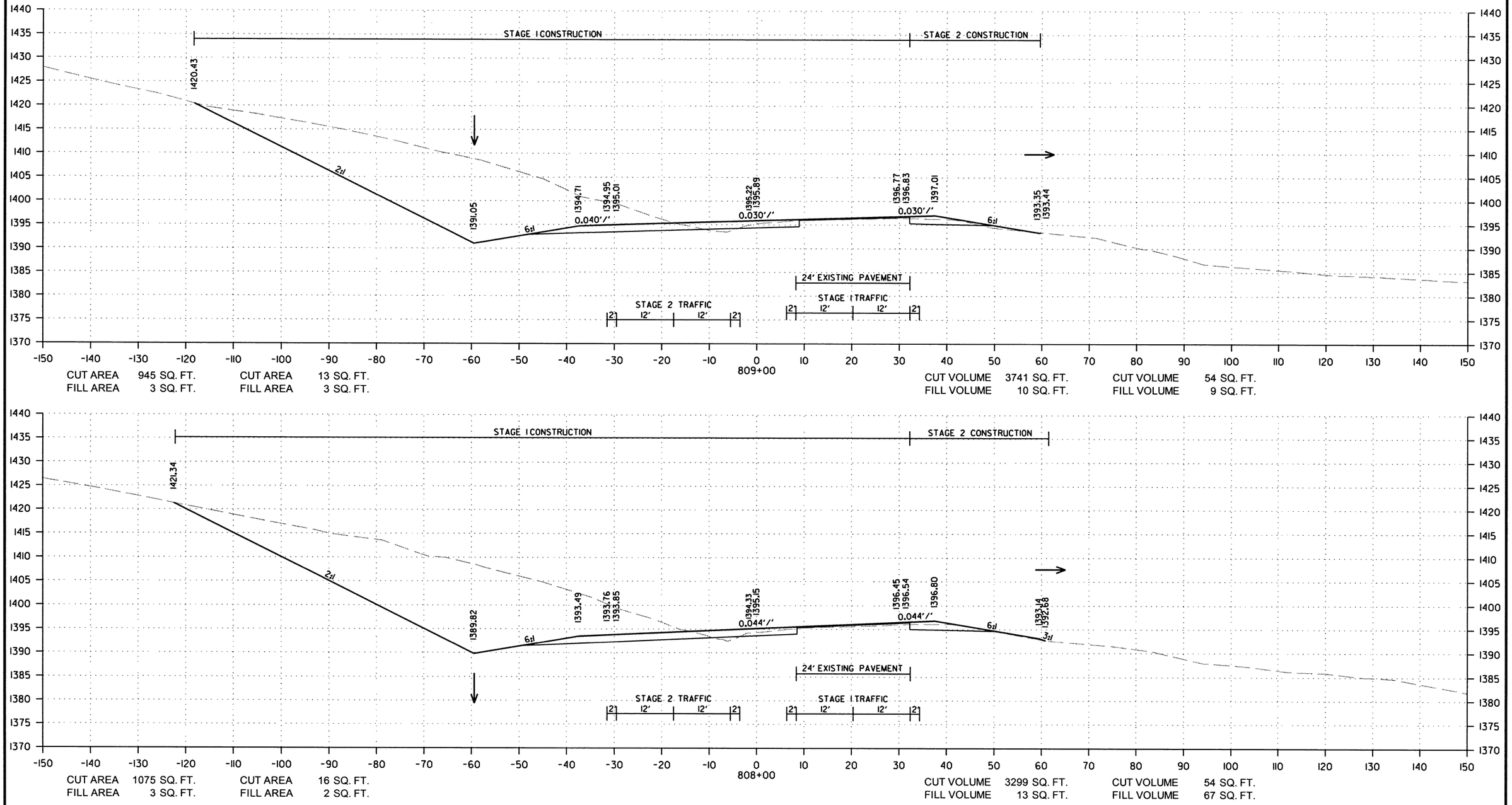
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 806+00 TO STA. 807+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	494	605

(2) CROSS SECTIONS



11/13/2018

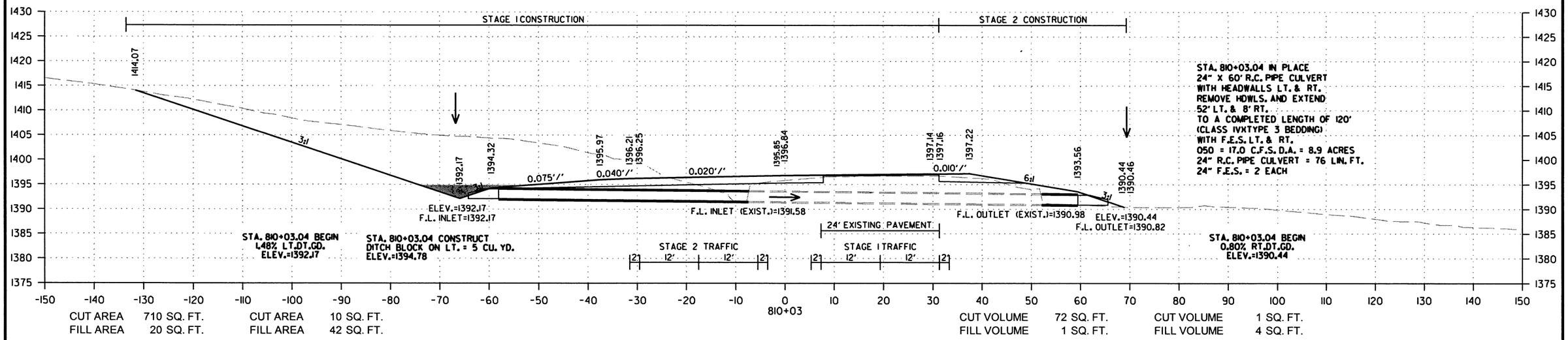
RCA0801.DGN

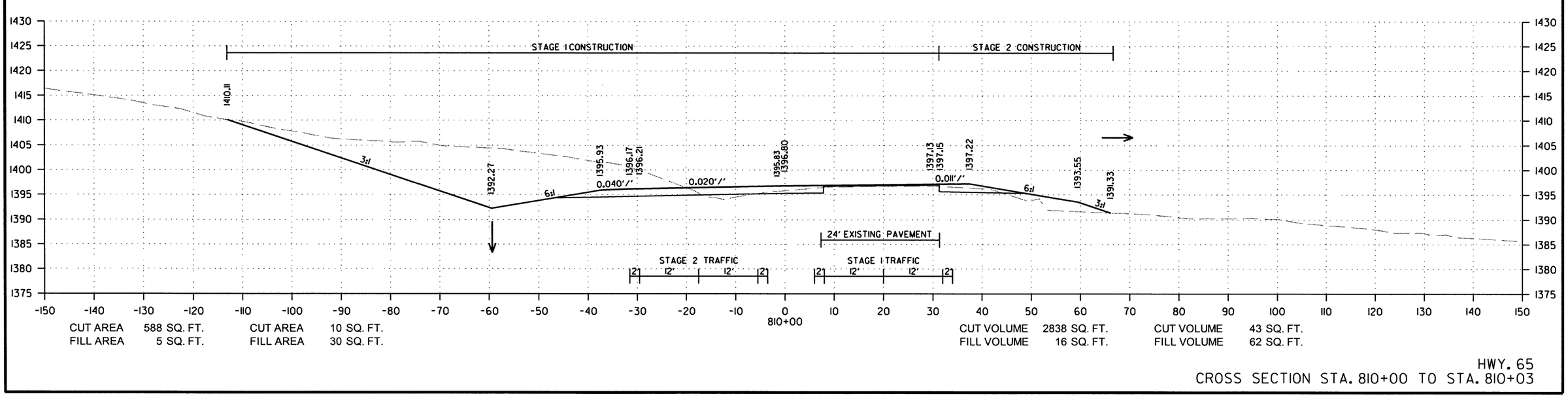
HWY. 65
CROSS SECTION STA. 808+00 TO STA. 809+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	495	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





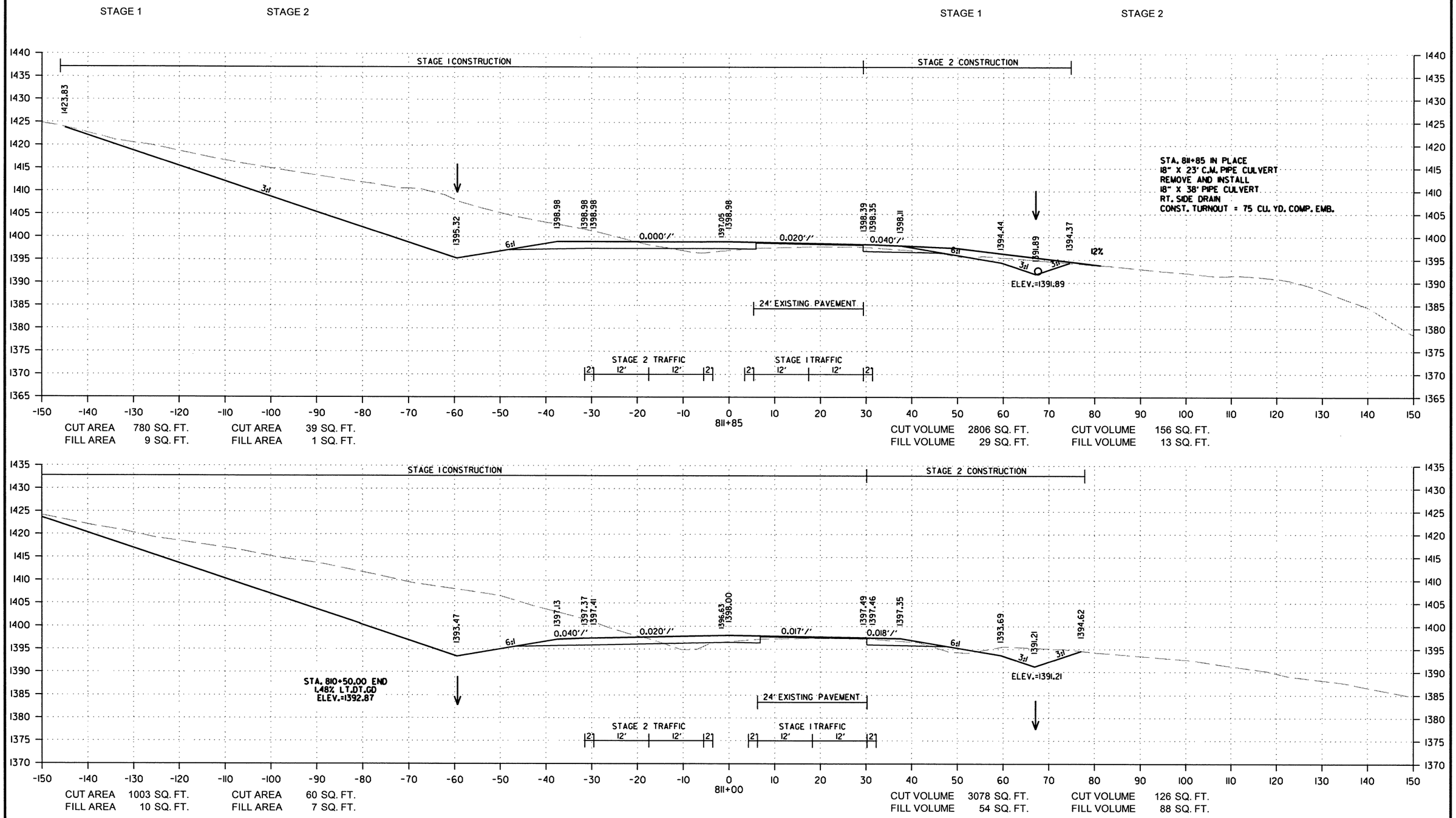
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 810+00 TO STA. 810+03

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	496	605

(2) CROSS SECTIONS



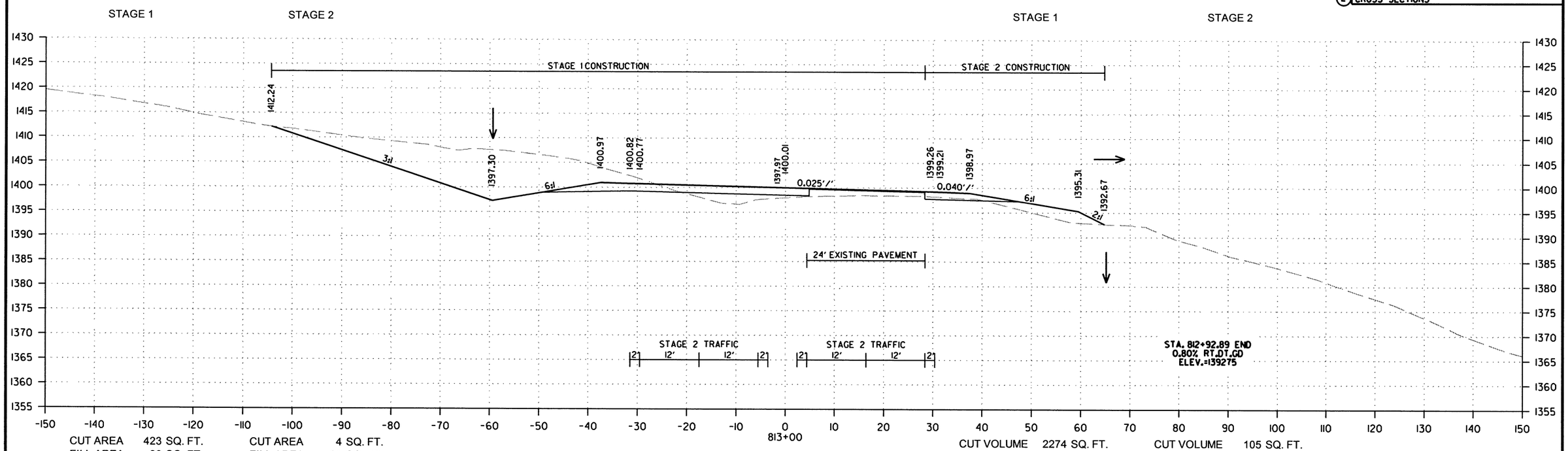
11/13/2018

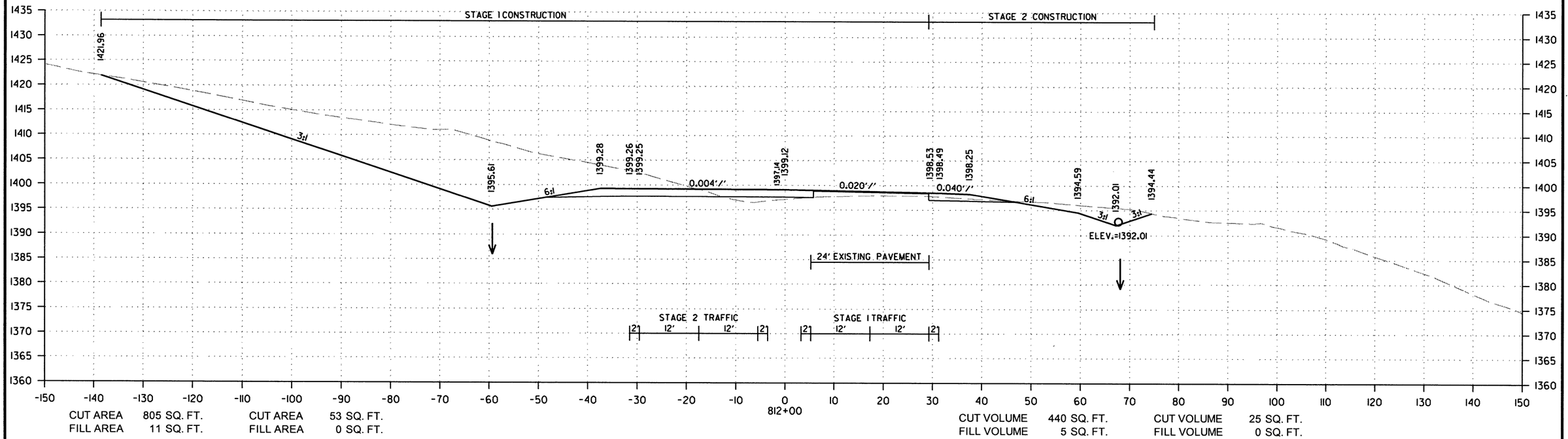
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 811+00 TO STA. 811+85

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	497	605

(2) CROSS SECTIONS





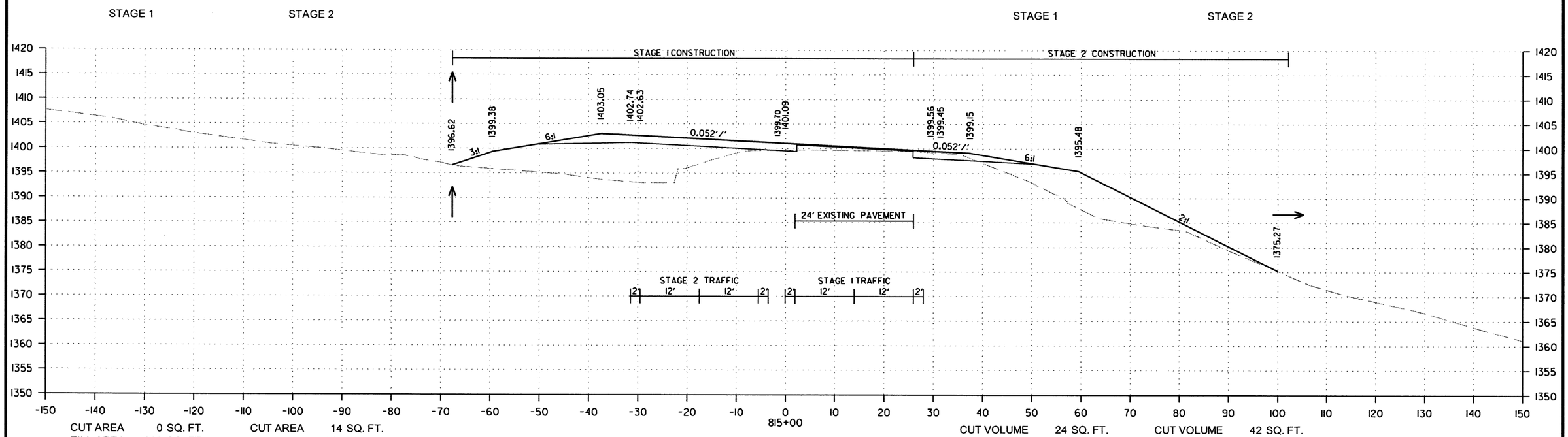
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 812+00 TO STA. 813+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	498	605

(2) CROSS SECTIONS



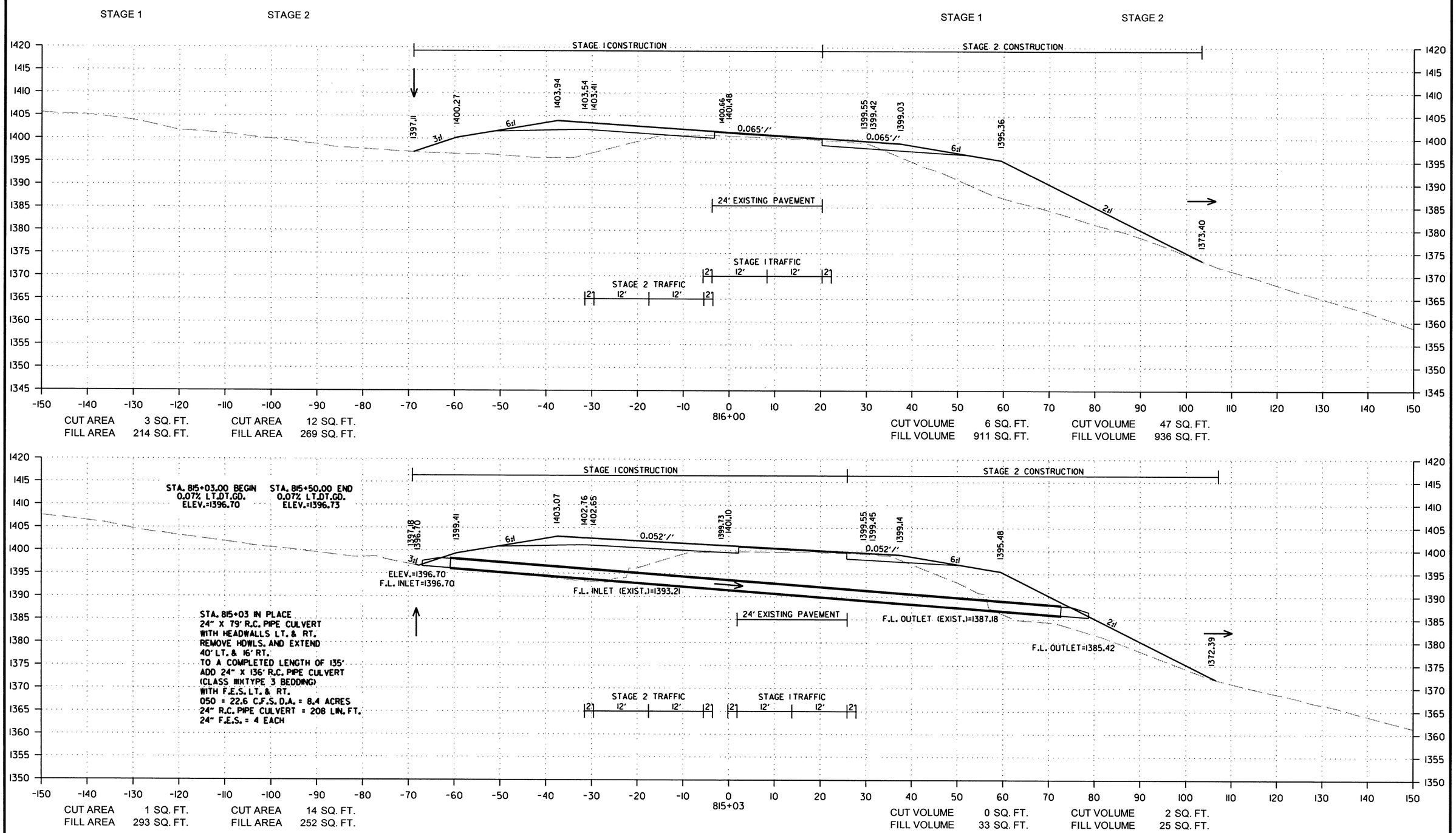
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 814+00 TO STA. 815+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	499	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

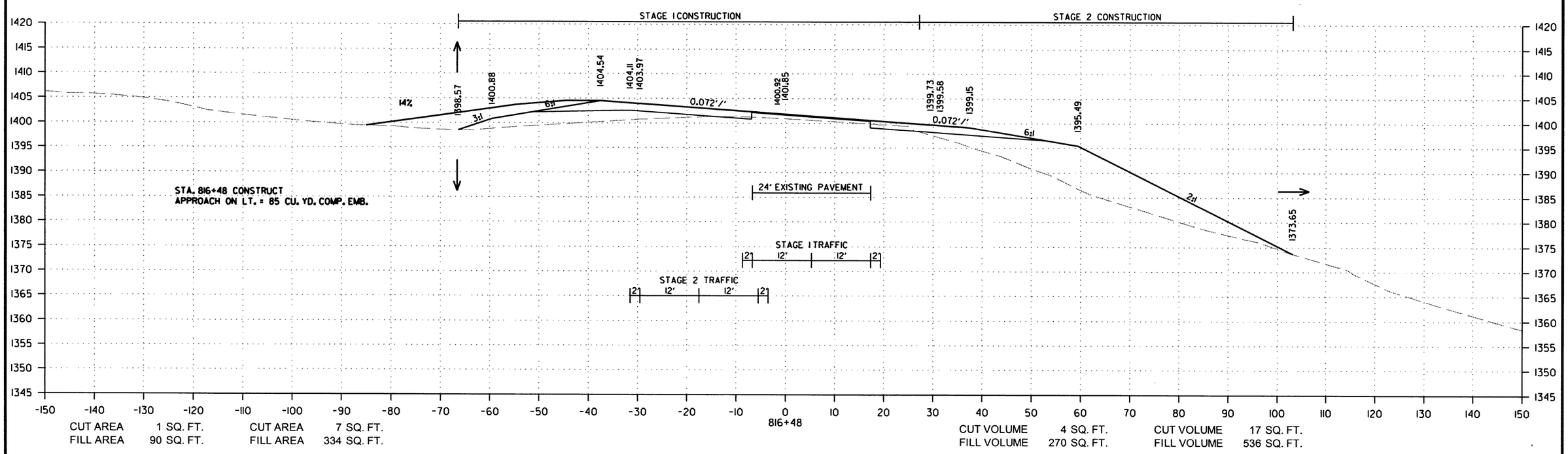
HWY. 65
CROSS SECTION STA. 815+03 TO STA. 816+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	500	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 1 SQ. FT. CUT AREA 7 SQ. FT.
FILL AREA 90 SQ. FT. FILL AREA 334 SQ. FT.

CUT VOLUME 4 SQ. FT. CUT VOLUME 17 SQ. FT.
FILL VOLUME 270 SQ. FT. FILL VOLUME 536 SQ. FT.

HWY. 65
CROSS SECTION STA. 816+48 TO STA. 816+48

11/13/2018

RCA0801.DGN

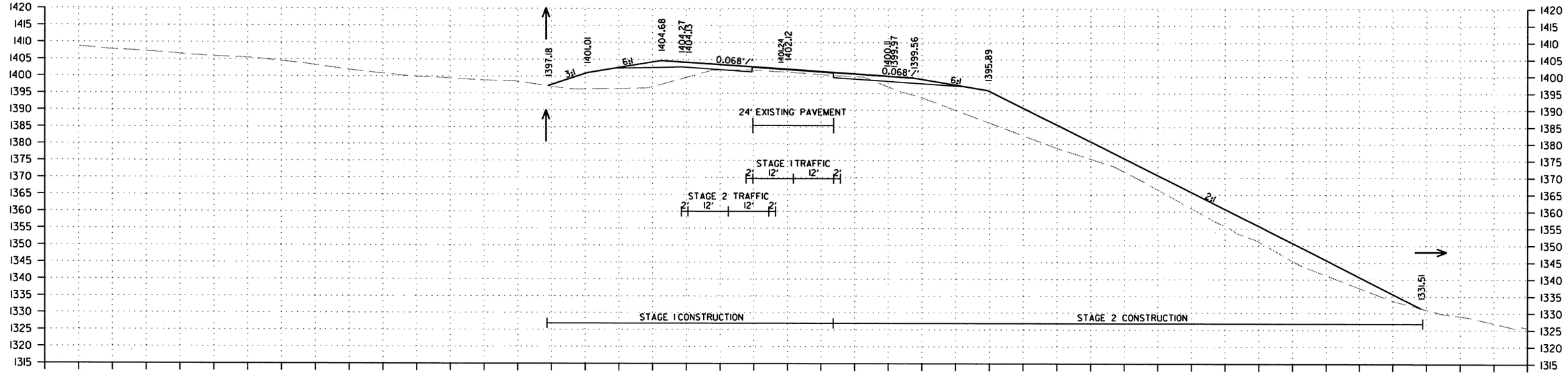
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	501	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2

STA. 817+14.60 BEGIN
-0.02% LT.DT.GD.
ELEV.=1397.02



CUT AREA 2 SQ. FT. CUT AREA 7 SQ. FT.
FILL AREA 199 SQ. FT. FILL AREA 799 SQ. FT.

CUT VOLUME 4 SQ. FT. CUT VOLUME 13 SQ. FT.
FILL VOLUME 278 SQ. FT. FILL VOLUME 1091 SQ. FT.

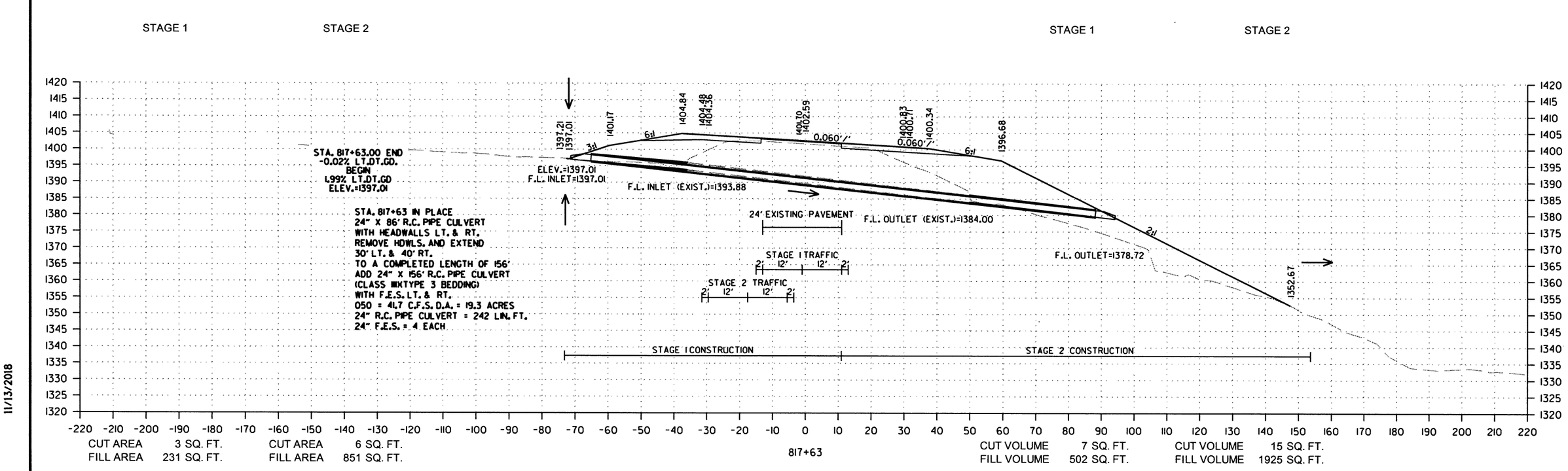
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 817+00 TO STA. 817+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	502	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

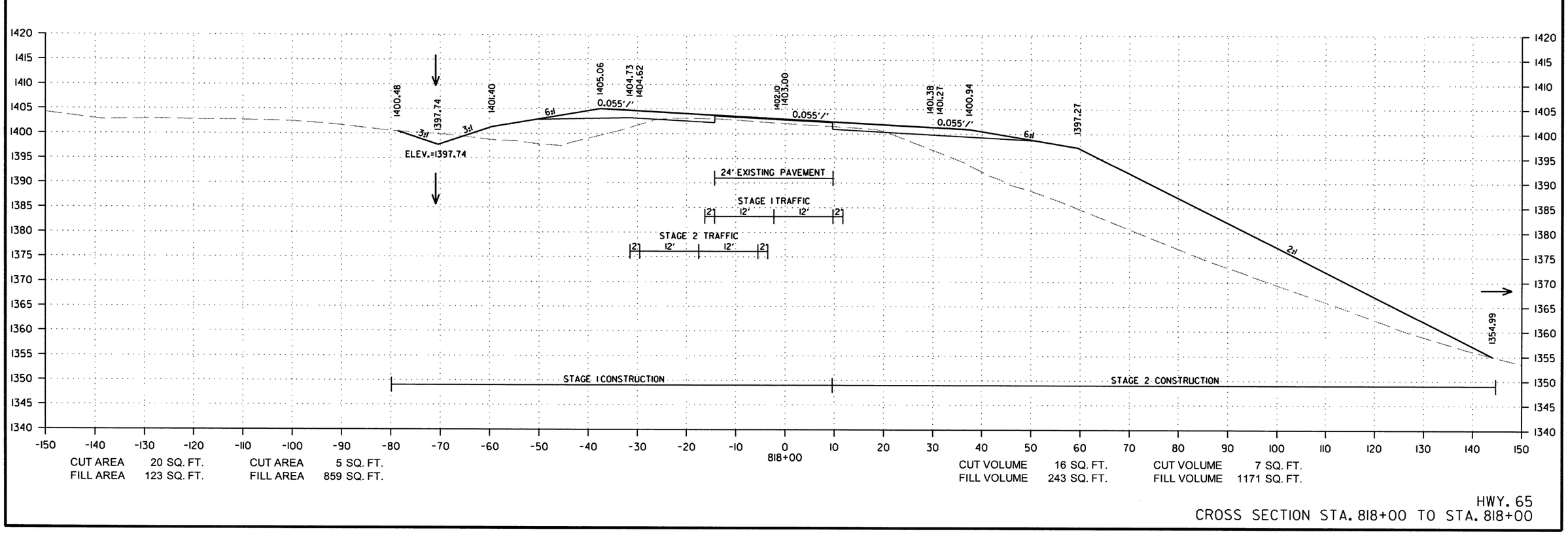
HWY. 65
CROSS SECTION STA. 817+63 TO STA. 817+63

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	503	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 818+00 TO STA. 818+00

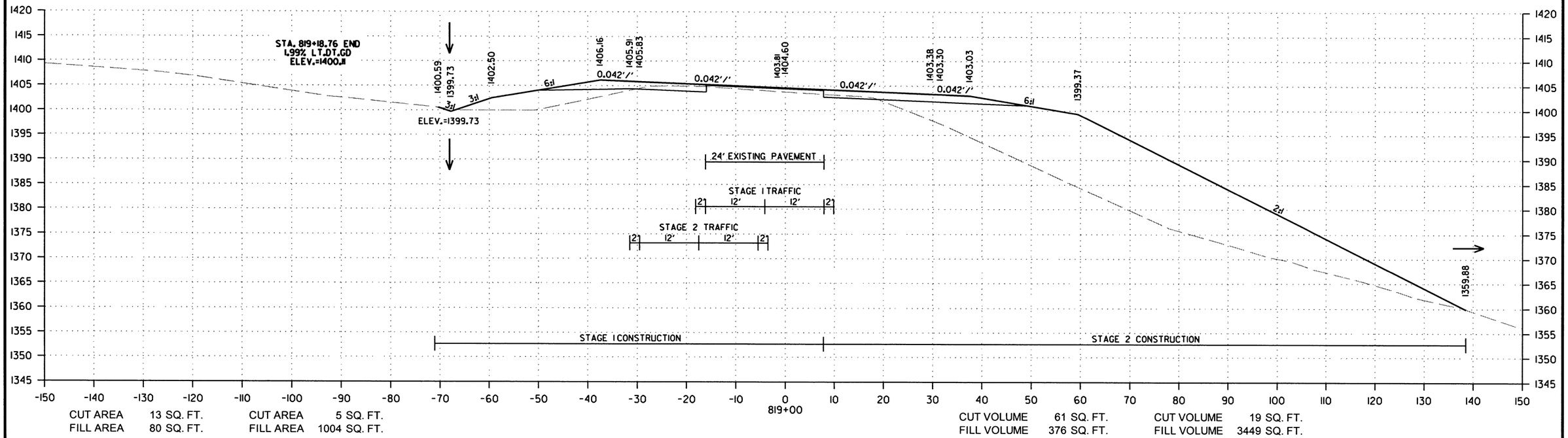
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	504	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 13 SQ. FT. CUT AREA 5 SQ. FT.
FILL AREA 80 SQ. FT. FILL AREA 1004 SQ. FT.

CUT VOLUME 61 SQ. FT. CUT VOLUME 19 SQ. FT.
FILL VOLUME 376 SQ. FT. FILL VOLUME 3449 SQ. FT.

HWY. 65
CROSS SECTION STA. 819+00 TO STA. 819+00

11/13/2018

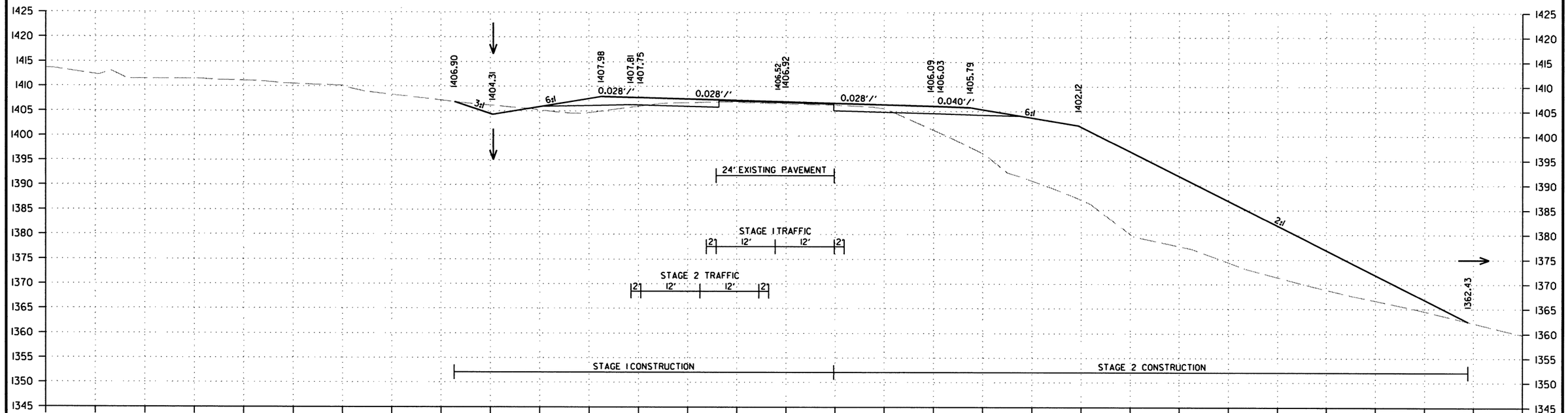
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	505	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 23 SQ. FT. CUT AREA 11 SQ. FT.
FILL AREA 22 SQ. FT. FILL AREA 1083 SQ. FT.

CUT VOLUME 67 SQ. FT. CUT VOLUME 29 SQ. FT.
FILL VOLUME 189 SQ. FT. FILL VOLUME 3865 SQ. FT.

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RCA0801.DGN

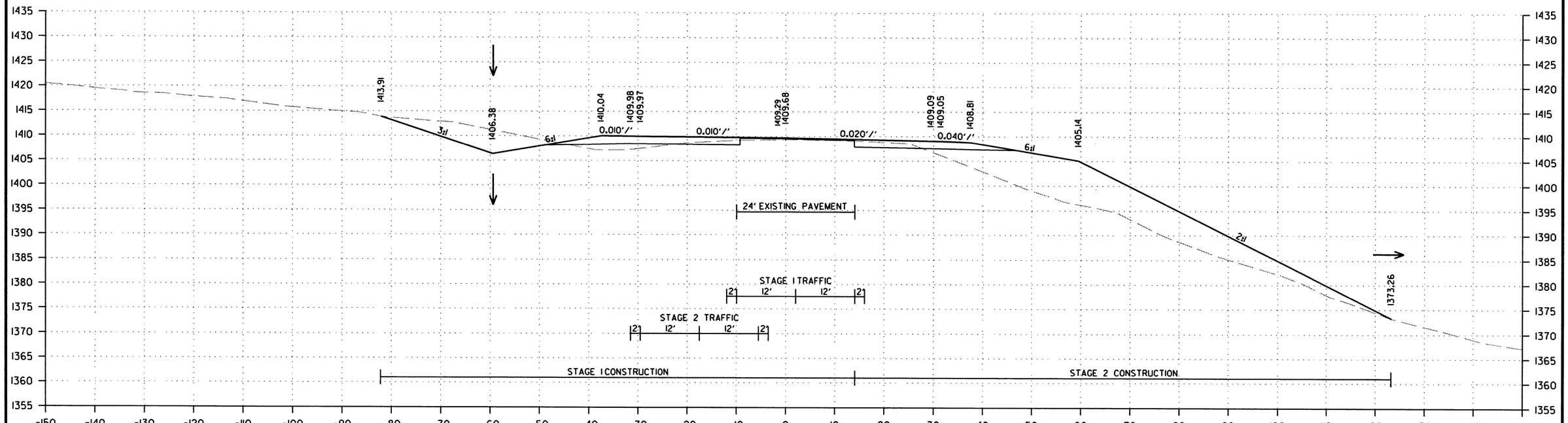
HWY. 65
CROSS SECTION STA. 820+00 TO STA. 820+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	506	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2

STAGE 1 STAGE 2



CUT AREA 101 SQ. FT. CUT AREA 13 SQ. FT.
FILL AREA 17 SQ. FT. FILL AREA 441 SQ. FT.

CUT VOLUME 231 SQ. FT. CUT VOLUME 44 SQ. FT.
FILL VOLUME 74 SQ. FT. FILL VOLUME 2822 SQ. FT.

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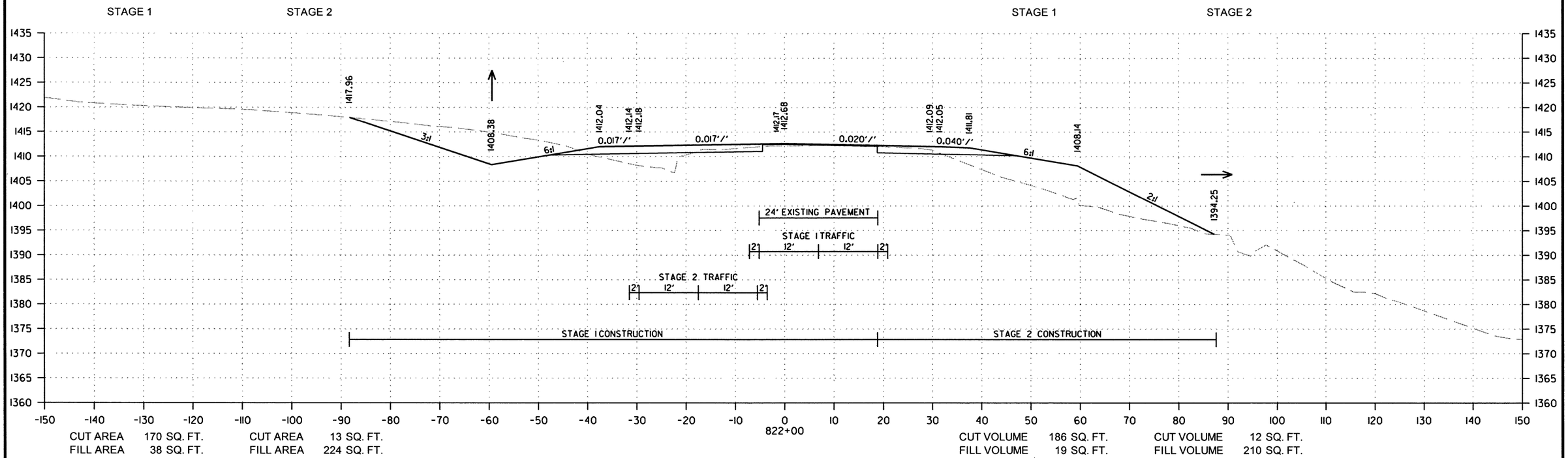
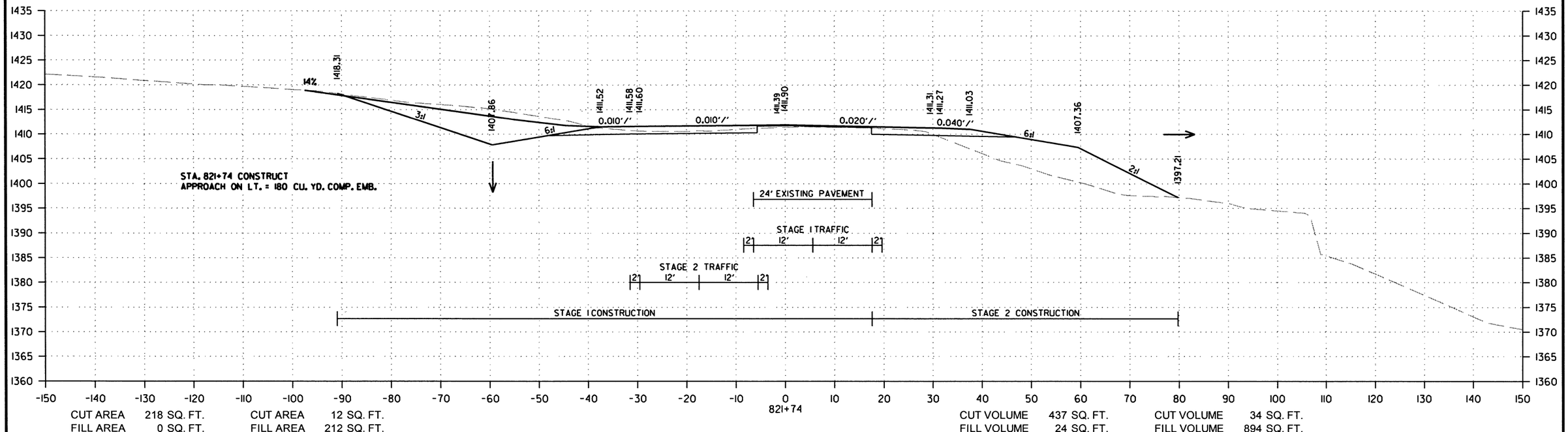
RC40801.DGN

HWY. 65
CROSS SECTION STA. 821+00 TO STA. 821+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	507	605

(2) CROSS SECTIONS





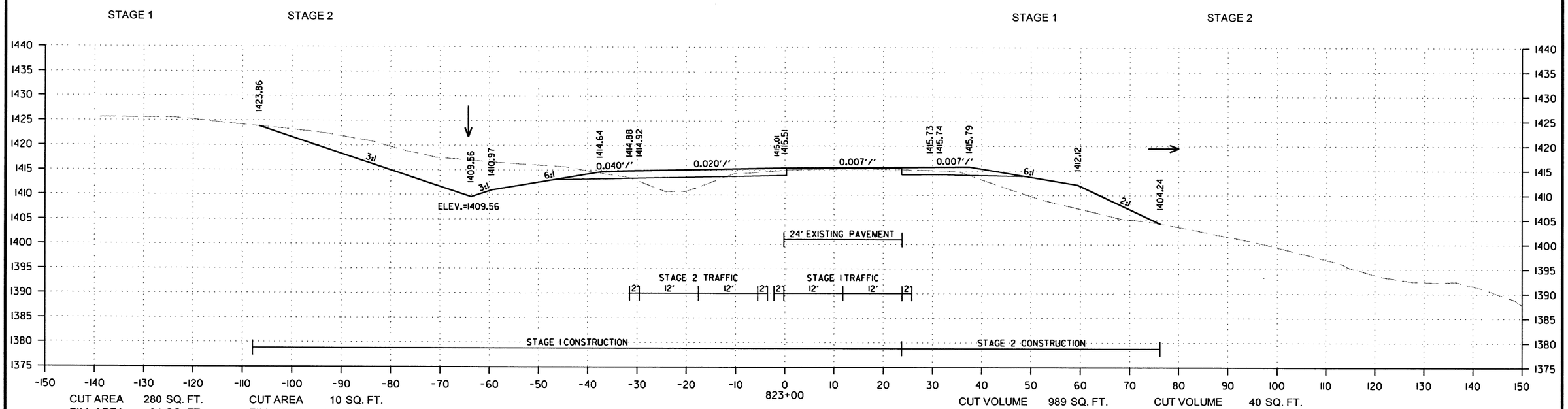
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 821+74 TO STA. 822+00

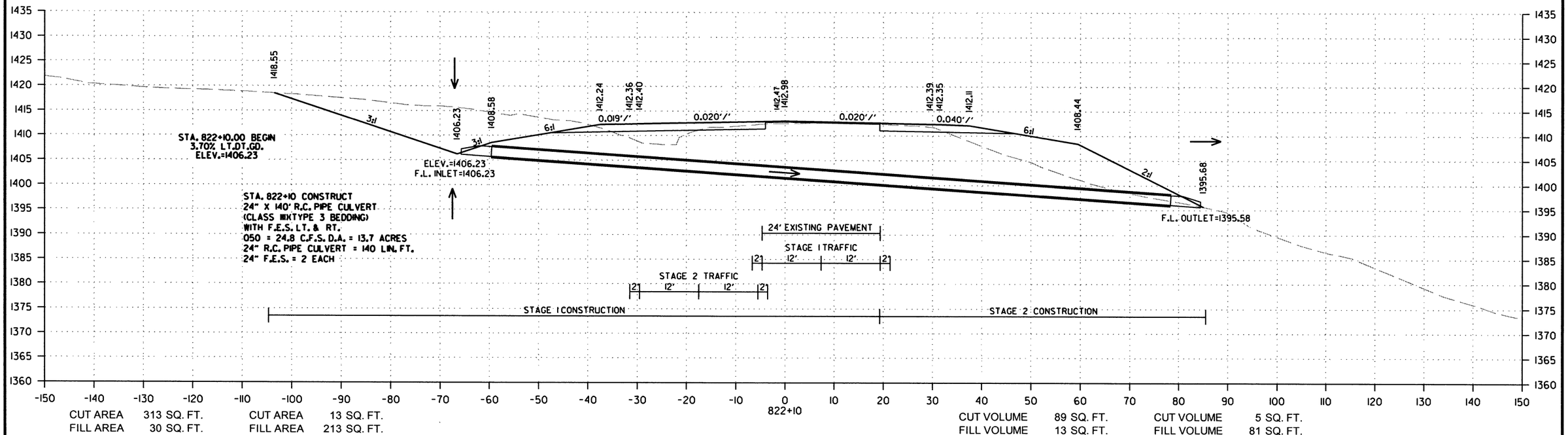
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	508	605

(2) CROSS SECTIONS



CUT AREA 280 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 34 SQ. FT. FILL AREA 111 SQ. FT.

CUT VOLUME 989 SQ. FT. CUT VOLUME 40 SQ. FT.
FILL VOLUME 106 SQ. FT. FILL VOLUME 540 SQ. FT.



CUT AREA 313 SQ. FT. CUT AREA 13 SQ. FT.
FILL AREA 30 SQ. FT. FILL AREA 213 SQ. FT.

CUT VOLUME 89 SQ. FT. CUT VOLUME 5 SQ. FT.
FILL VOLUME 13 SQ. FT. FILL VOLUME 81 SQ. FT.

11/13/2018

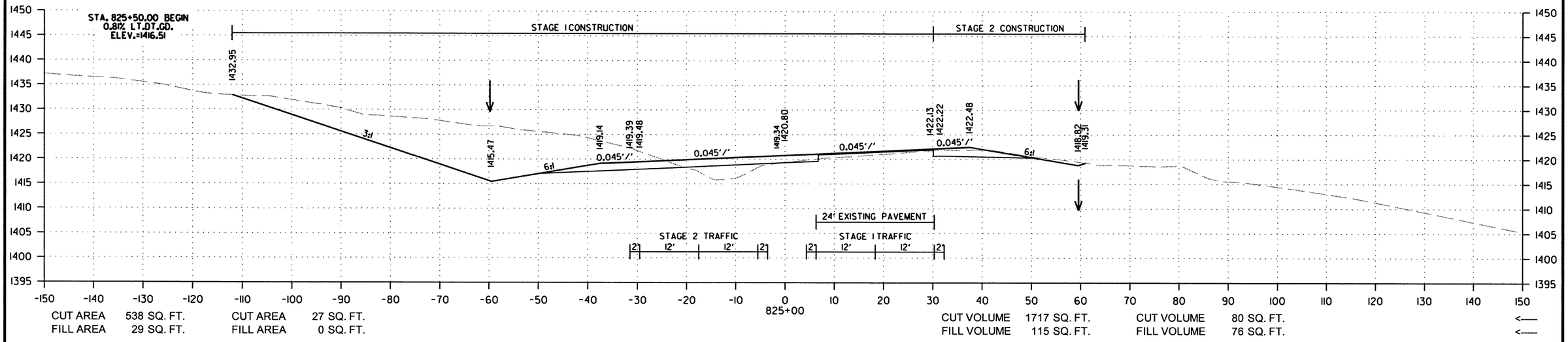
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 822+10 TO STA. 823+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	509	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 824+00 TO STA. 825+00

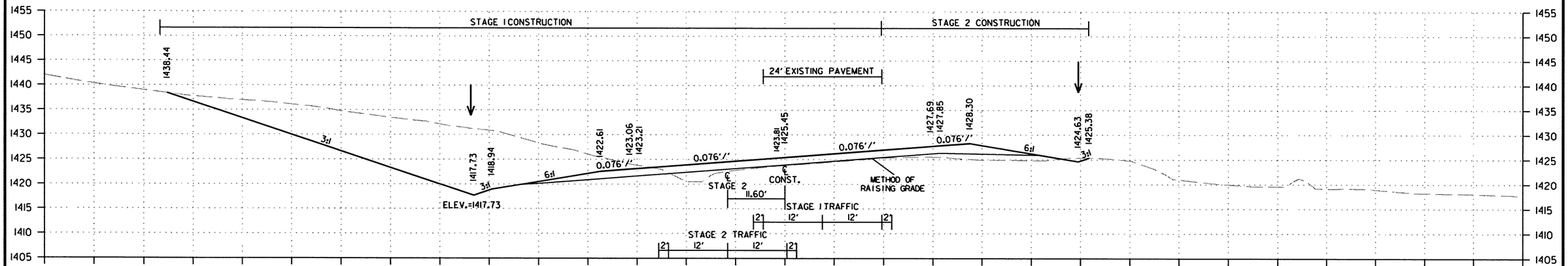
11/13/2018

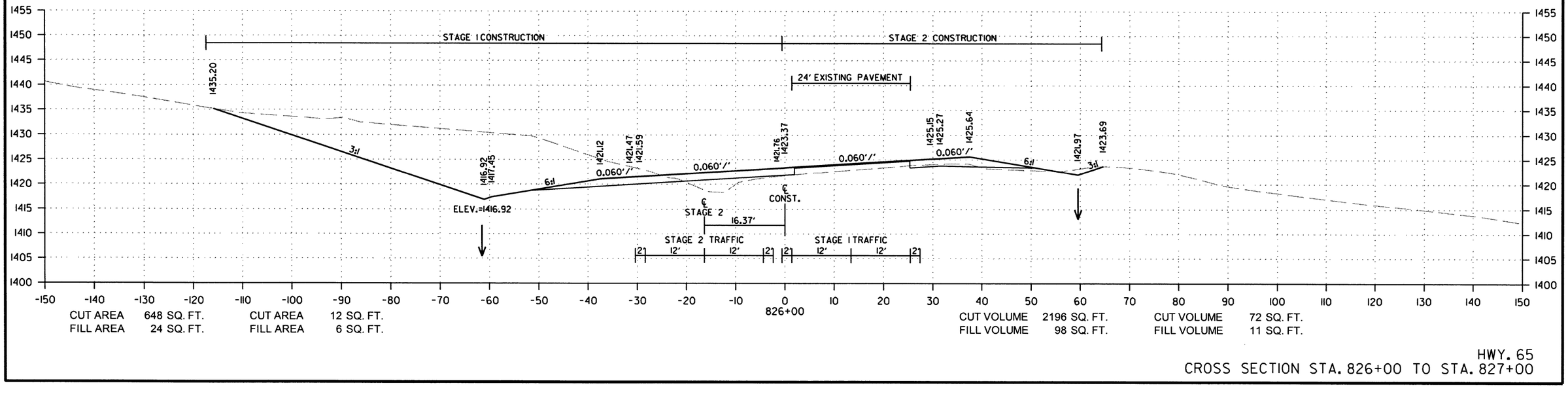
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	510	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





HWY. 65
CROSS SECTION STA. 826+00 TO STA. 827+00

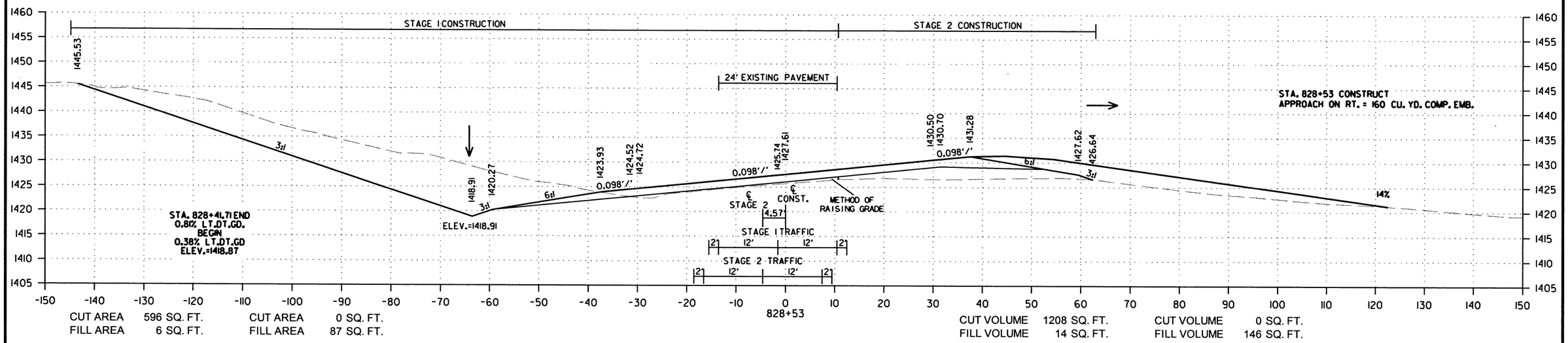
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	511	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 828+00 TO STA. 828+53

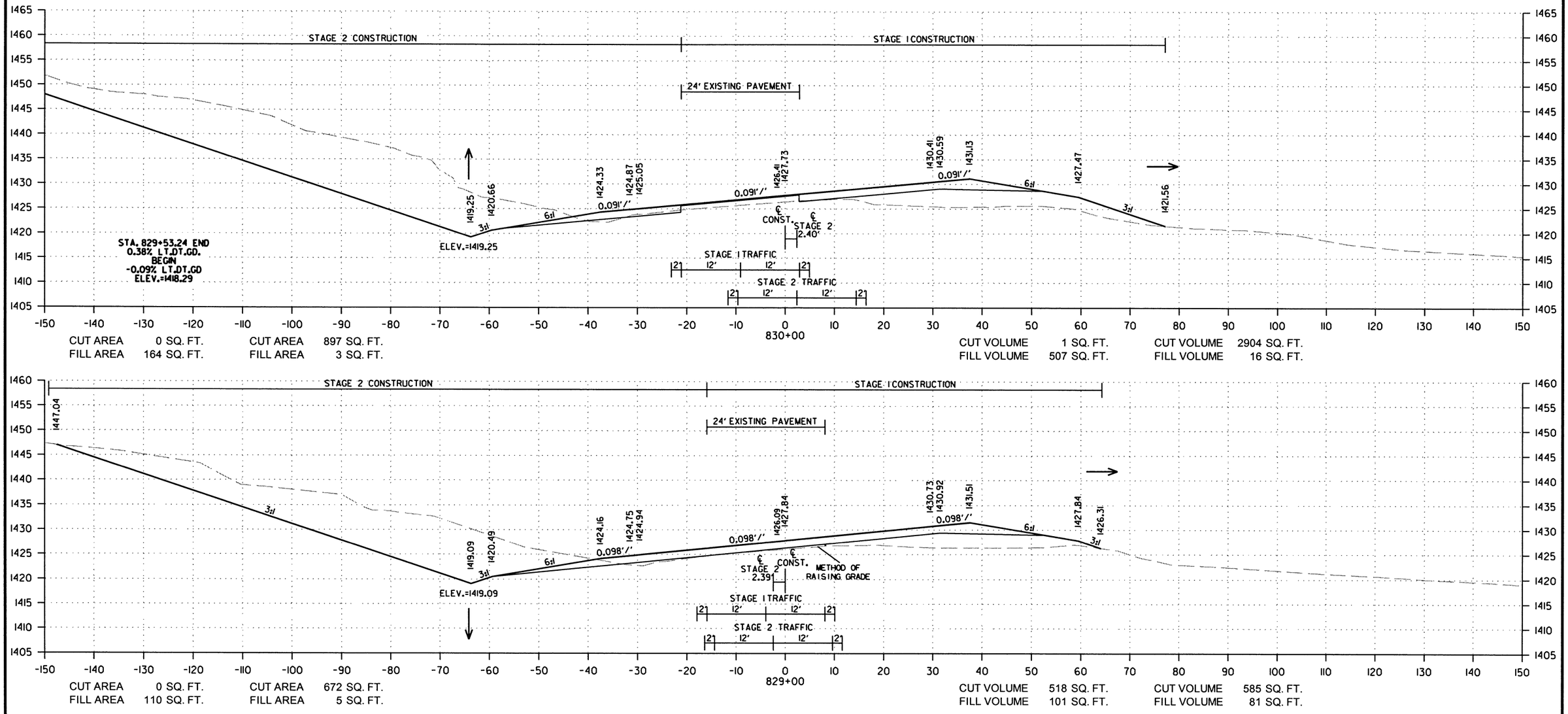
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	512	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 829+00 TO STA. 830+00

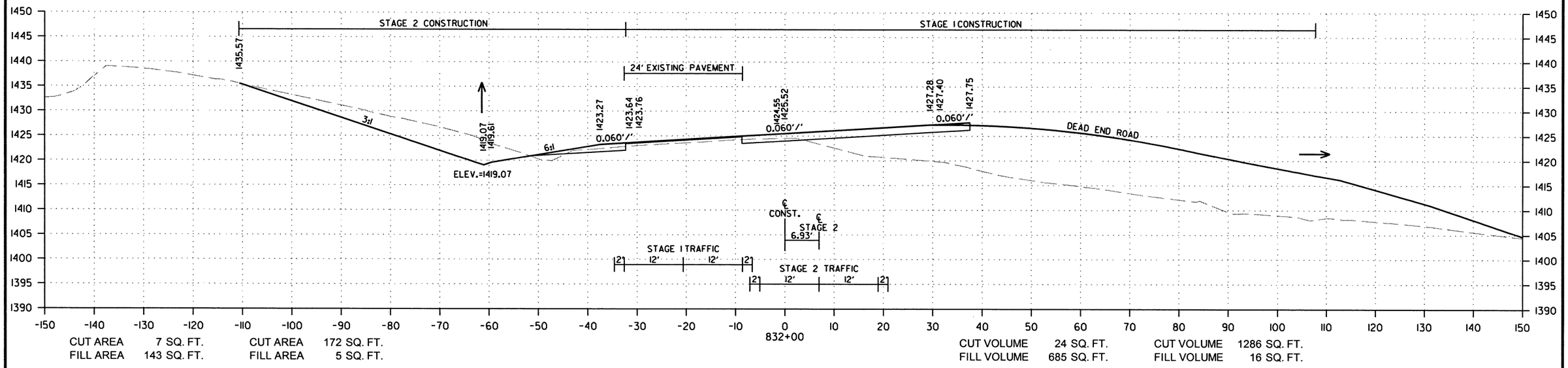
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	513	605

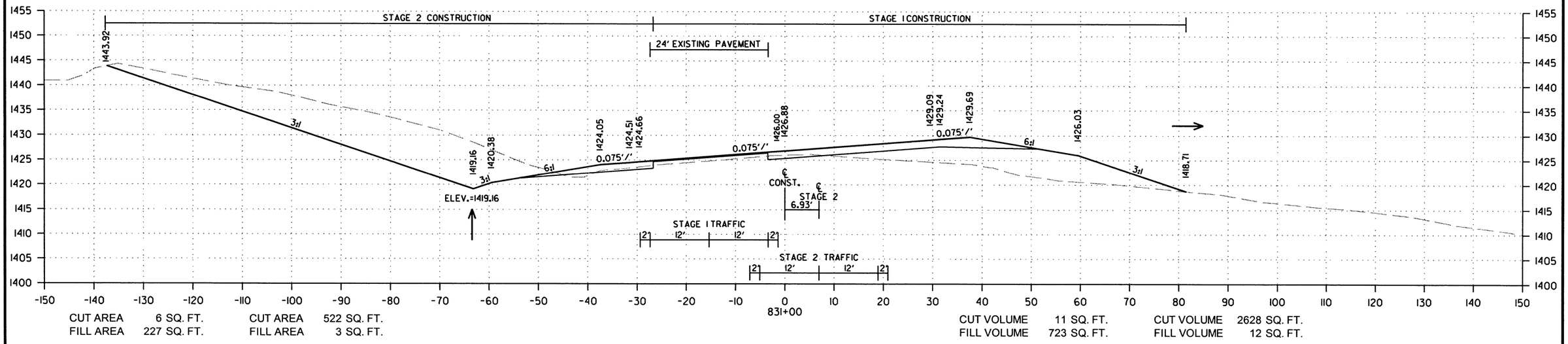
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 7 SQ. FT. CUT AREA 172 SQ. FT.
FILL AREA 143 SQ. FT. FILL AREA 5 SQ. FT.

CUT VOLUME 24 SQ. FT. CUT VOLUME 1286 SQ. FT.
FILL VOLUME 685 SQ. FT. FILL VOLUME 16 SQ. FT.



CUT AREA 6 SQ. FT. CUT AREA 522 SQ. FT.
FILL AREA 227 SQ. FT. FILL AREA 3 SQ. FT.

CUT VOLUME 11 SQ. FT. CUT VOLUME 2628 SQ. FT.
FILL VOLUME 723 SQ. FT. FILL VOLUME 12 SQ. FT.

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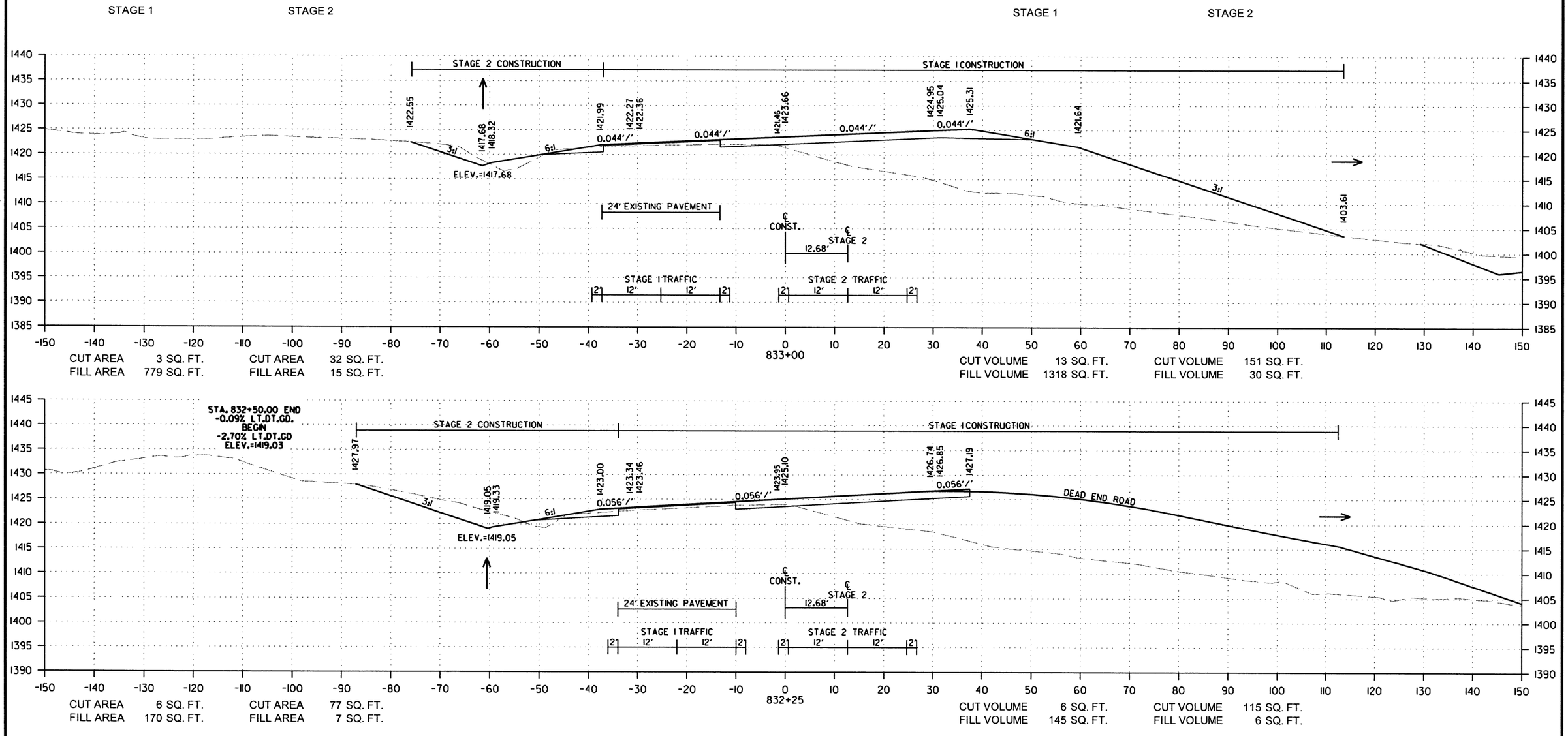
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 831+00 TO STA. 832+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	514	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 832+25 TO STA. 833+00

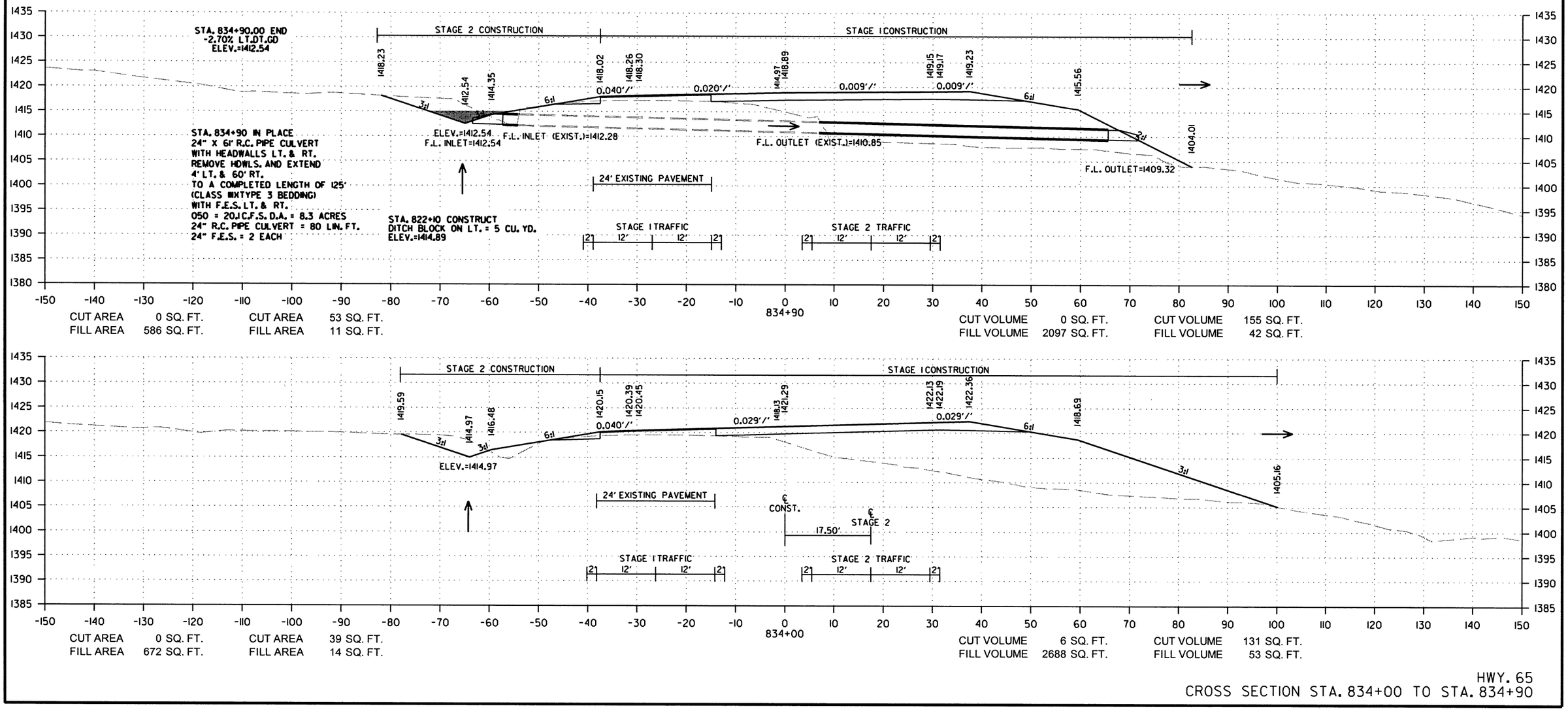
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	515	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

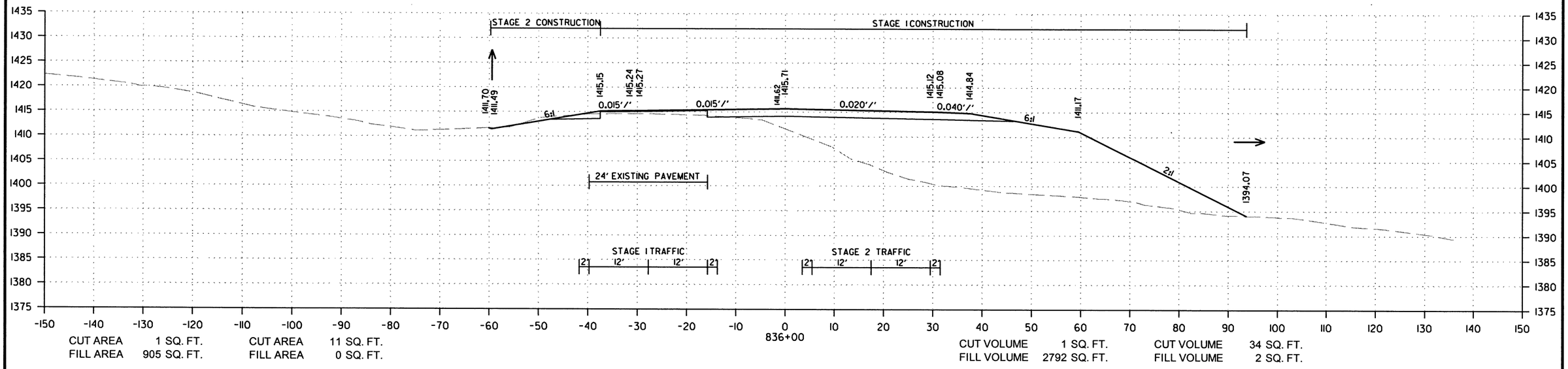
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 834+00 TO STA. 834+90

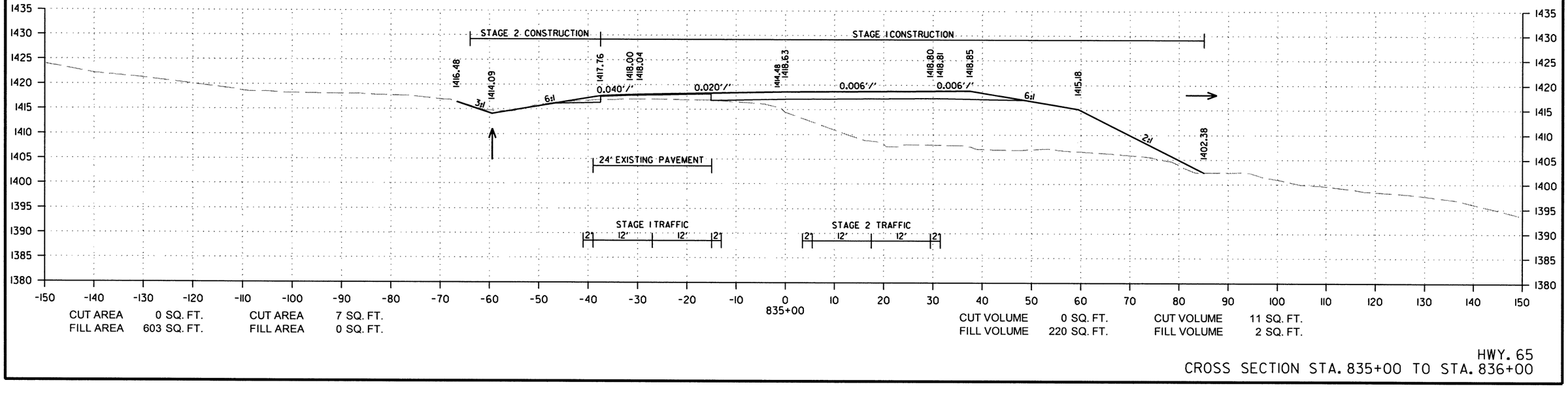
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	516	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	1 SQ. FT.	CUT AREA	11 SQ. FT.
FILL AREA	905 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	1 SQ. FT.	CUT VOLUME	34 SQ. FT.
FILL VOLUME	2792 SQ. FT.	FILL VOLUME	2 SQ. FT.



CUT AREA	0 SQ. FT.	CUT AREA	7 SQ. FT.
FILL AREA	603 SQ. FT.	FILL AREA	0 SQ. FT.
CUT VOLUME	0 SQ. FT.	CUT VOLUME	11 SQ. FT.
FILL VOLUME	220 SQ. FT.	FILL VOLUME	2 SQ. FT.

HWY. 65
CROSS SECTION STA. 835+00 TO STA. 836+00

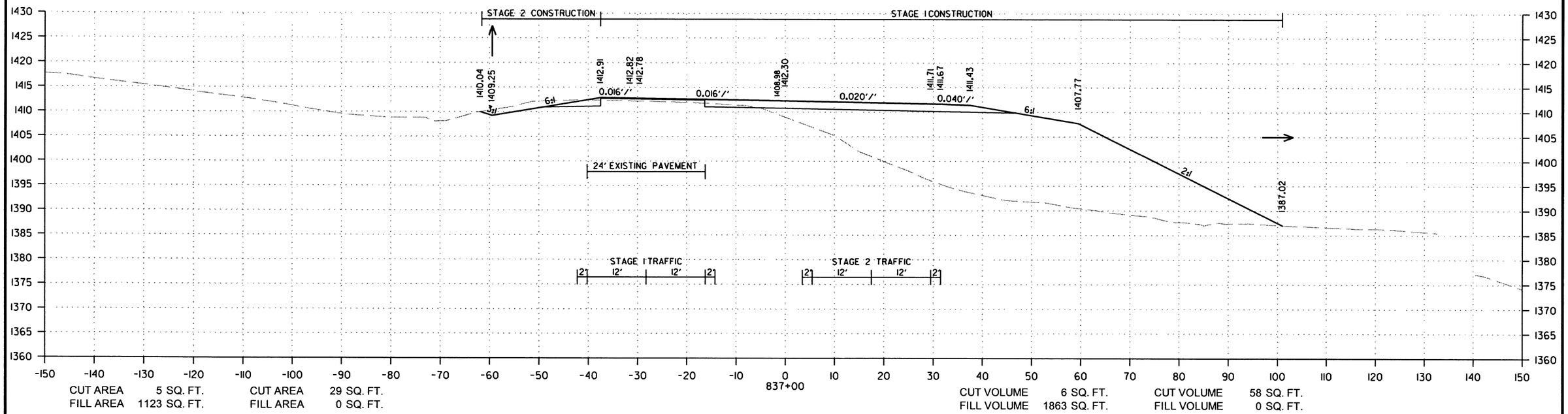
11/13/2018

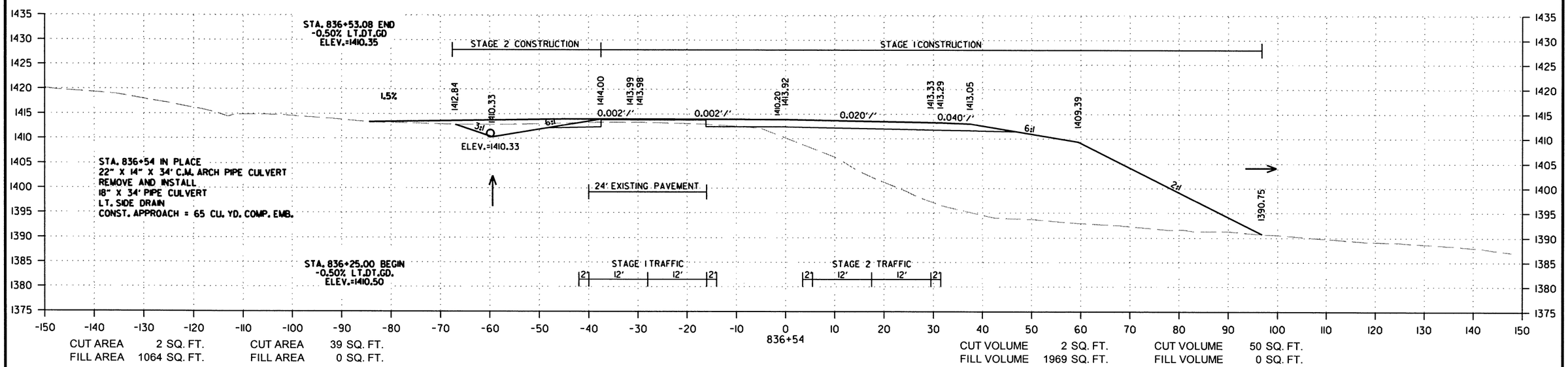
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	517	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





11/13/2018

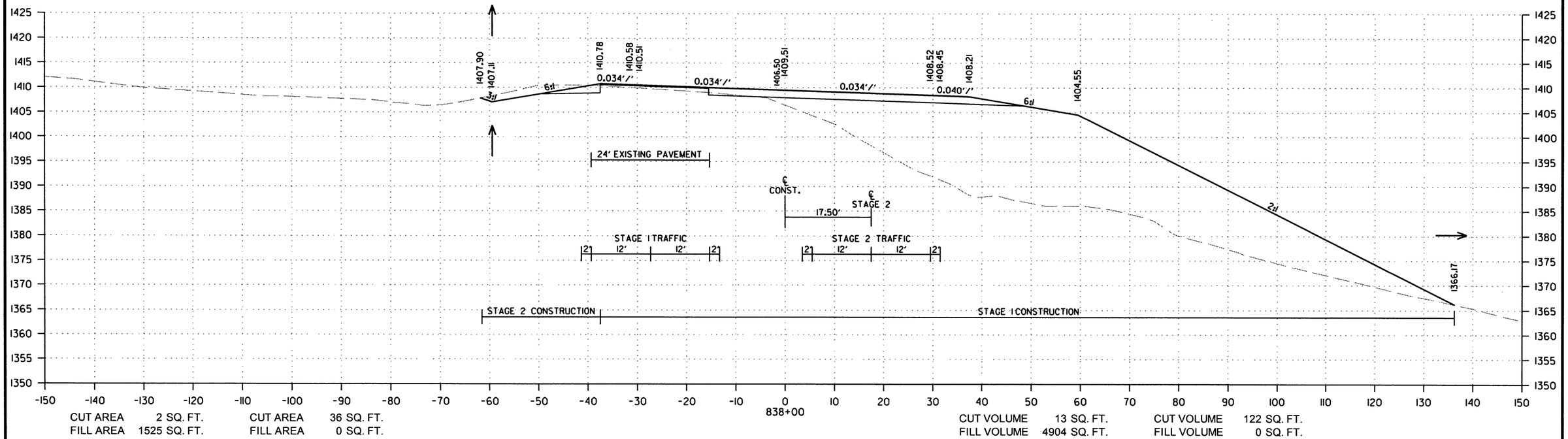
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 836+54 TO STA. 837+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	518	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 2 SQ. FT. CUT AREA 36 SQ. FT.
FILL AREA 1525 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 13 SQ. FT. CUT VOLUME 122 SQ. FT.
FILL VOLUME 4904 SQ. FT. FILL VOLUME 0 SQ. FT.

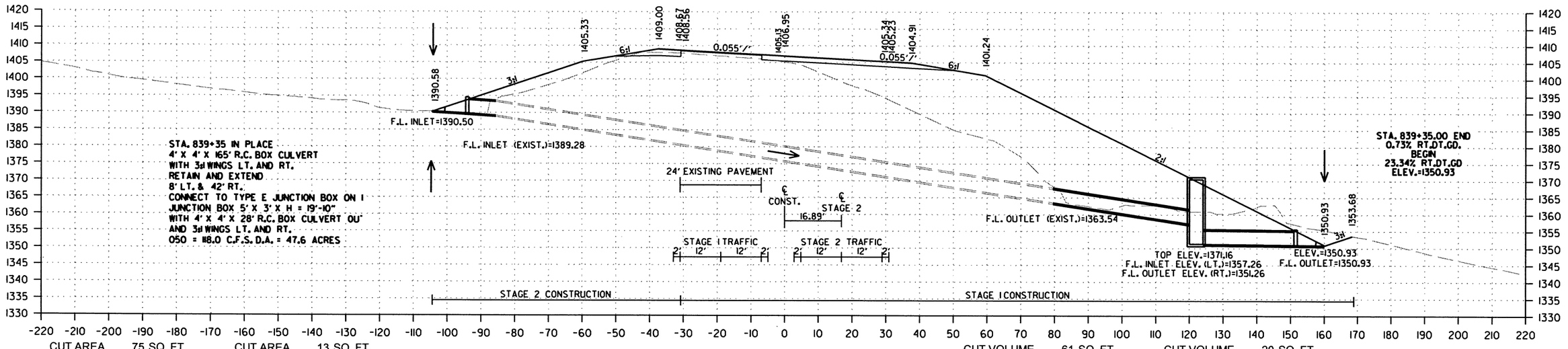
HWY. 65
CROSS SECTION STA. 838+00 TO STA. 838+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	519	605

(2) CROSS SECTIONS



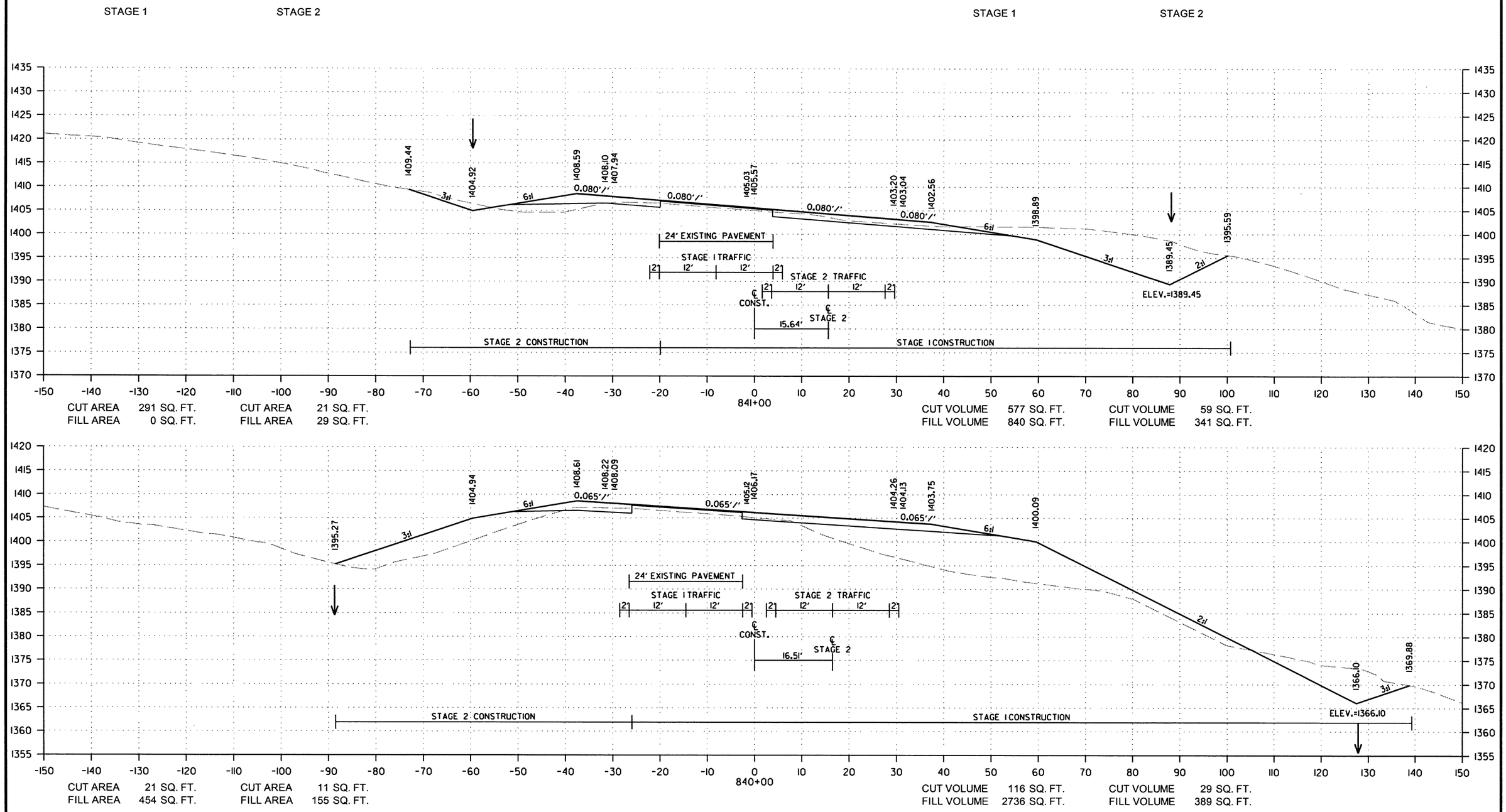
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 839+00 TO STA. 839+35

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	520	605

(2) CROSS SECTIONS



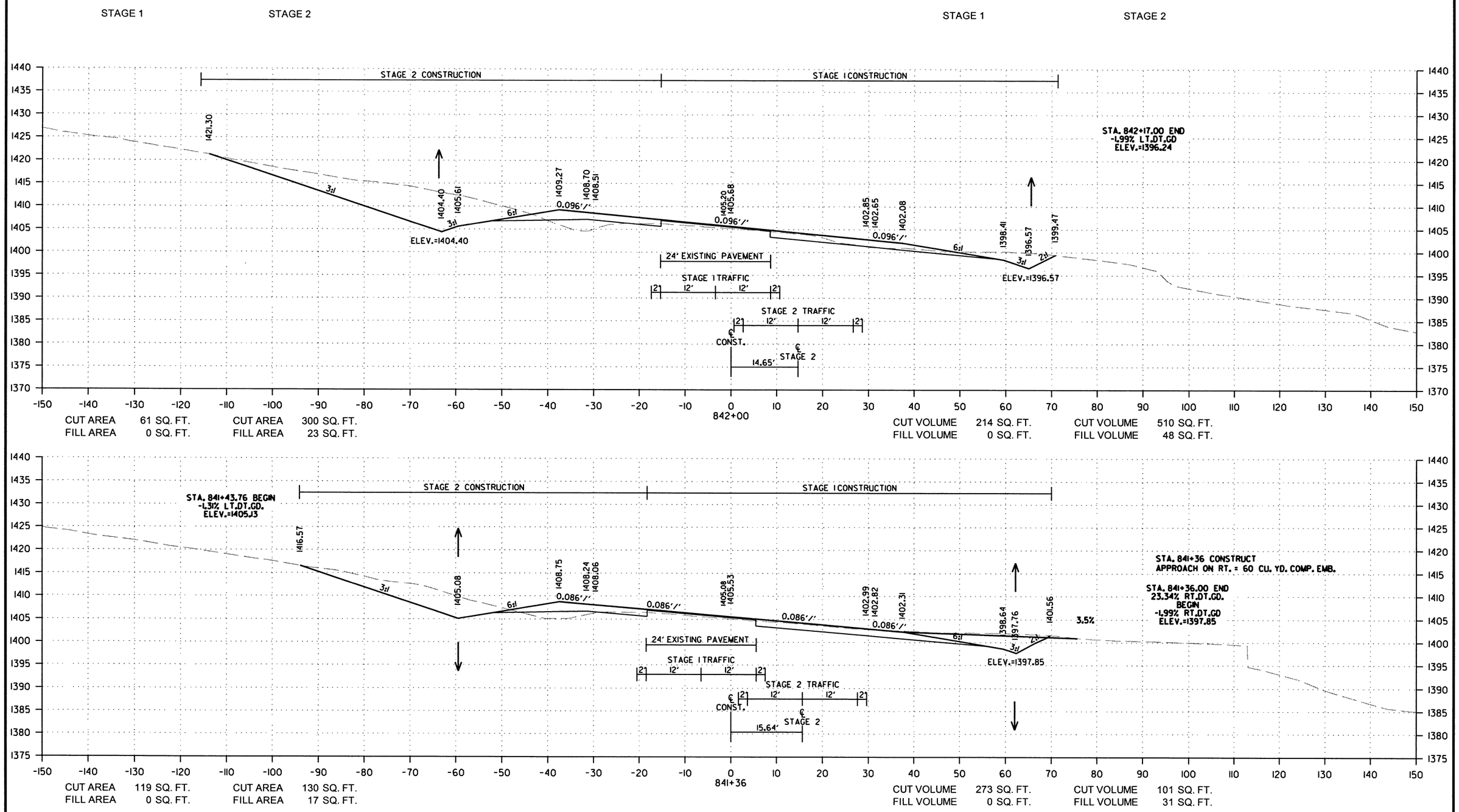
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 840+00 TO STA. 841+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	521	605

(2) CROSS SECTIONS



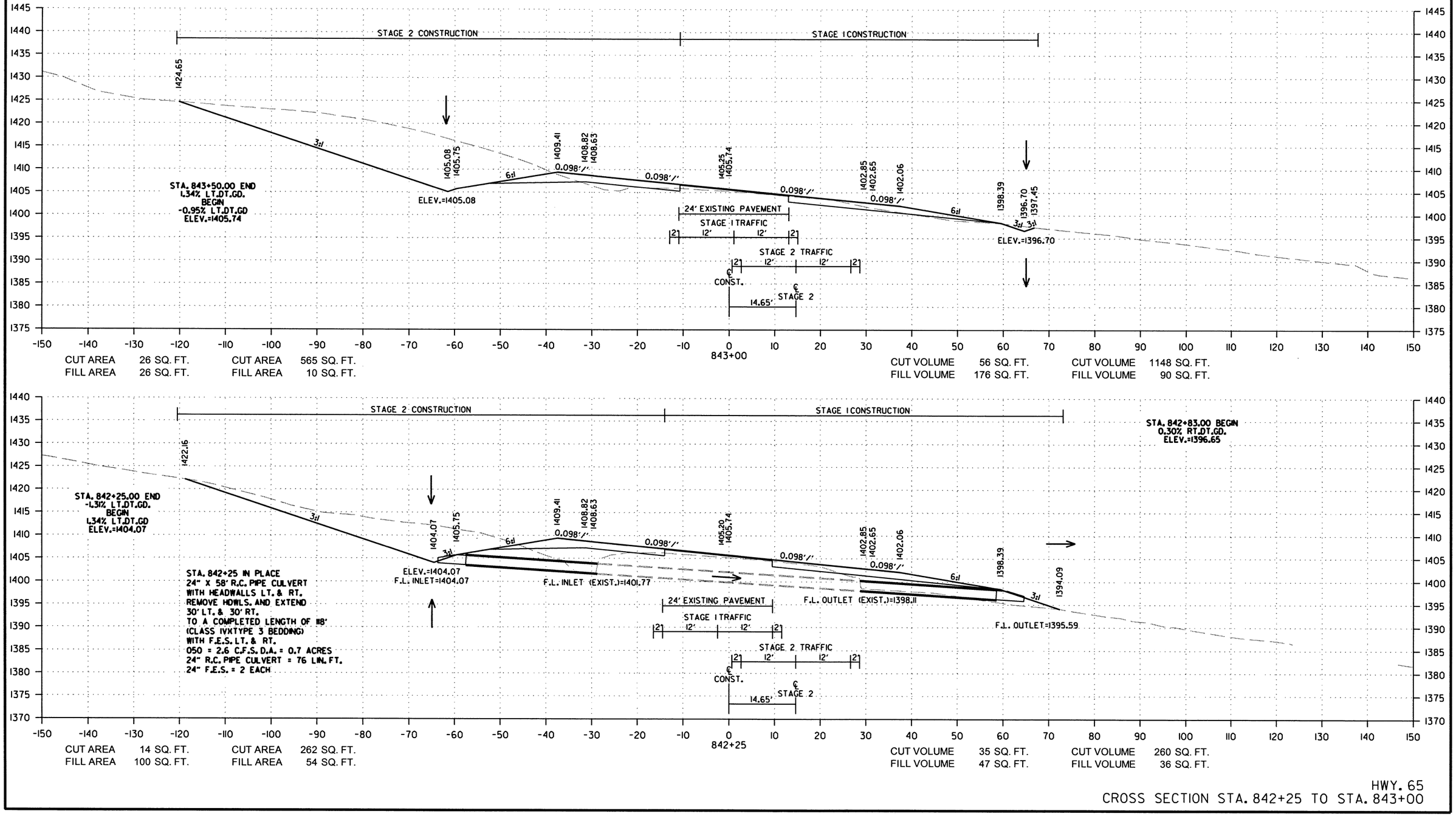
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 841+36 TO STA. 842+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	522	605

(2) CROSS SECTIONS



11/13/2018

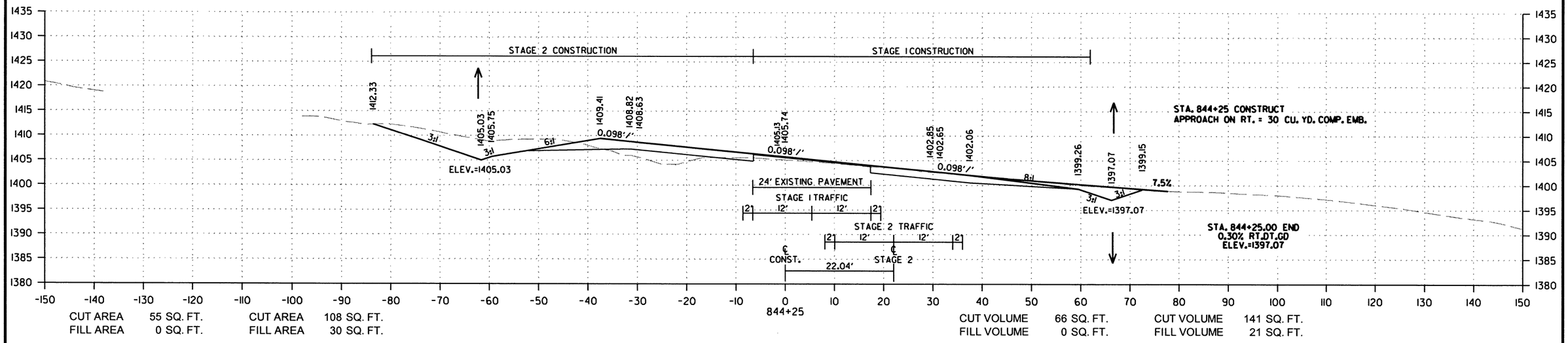
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 842+25 TO STA. 843+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	523	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	55 SQ. FT.	CUT AREA	108 SQ. FT.	CUT VOLUME	66 SQ. FT.	CUT VOLUME	141 SQ. FT.
FILL AREA	0 SQ. FT.	FILL AREA	30 SQ. FT.	FILL VOLUME	0 SQ. FT.	FILL VOLUME	21 SQ. FT.
CUT AREA	88 SQ. FT.	CUT AREA	197 SQ. FT.	CUT VOLUME	211 SQ. FT.	CUT VOLUME	1411 SQ. FT.
FILL AREA	0 SQ. FT.	FILL AREA	15 SQ. FT.	FILL VOLUME	48 SQ. FT.	FILL VOLUME	48 SQ. FT.

HWY. 65
CROSS SECTION STA. 844+00 TO STA. 844+25

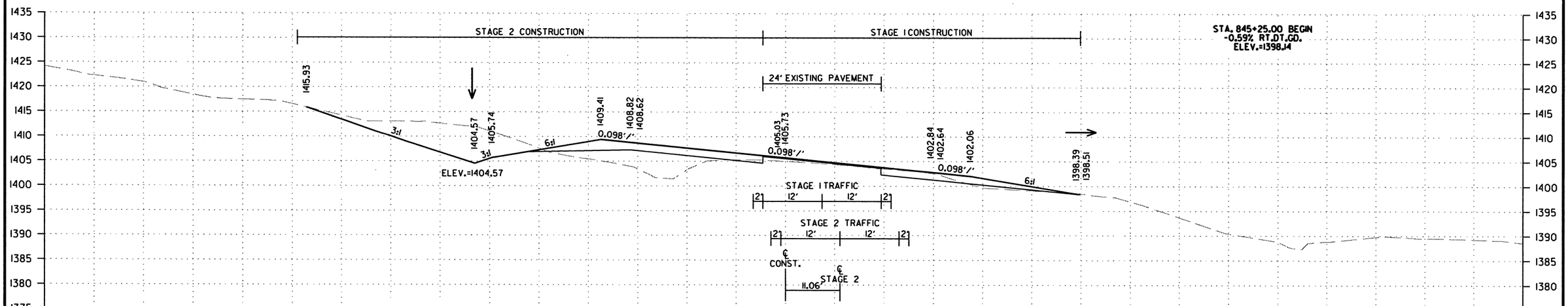
11/13/2018

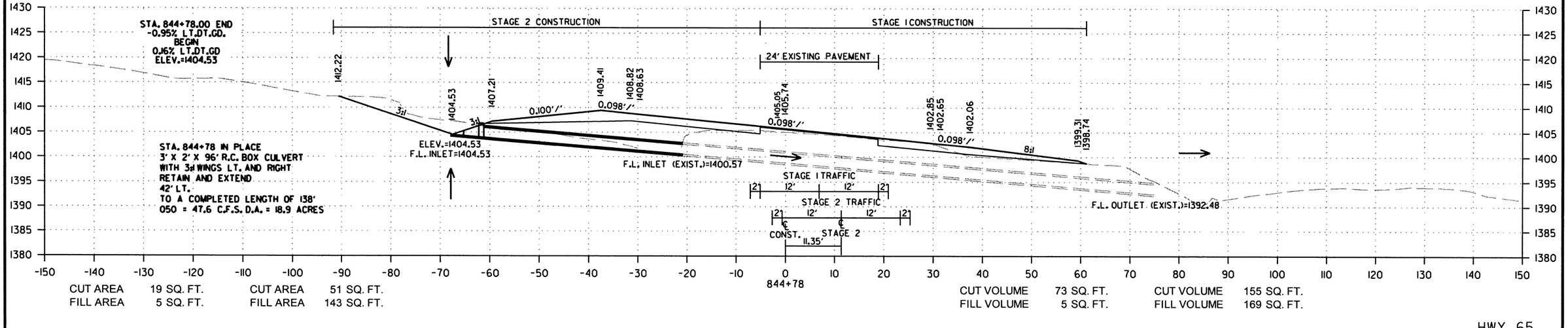
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	524	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





HWY. 65
CROSS SECTION STA. 844+78 TO STA. 845+00

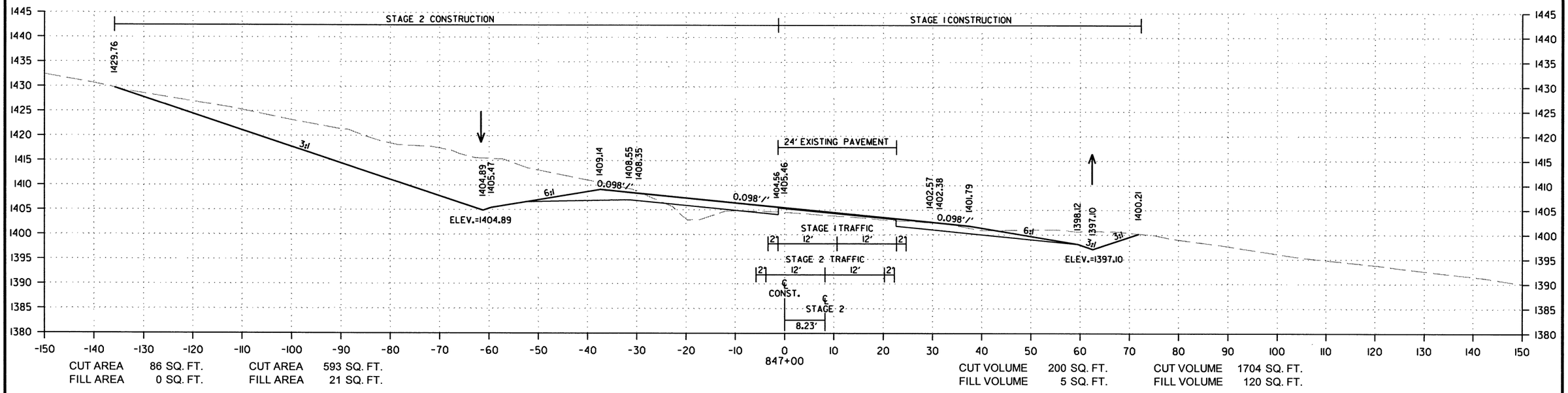
11/13/2018

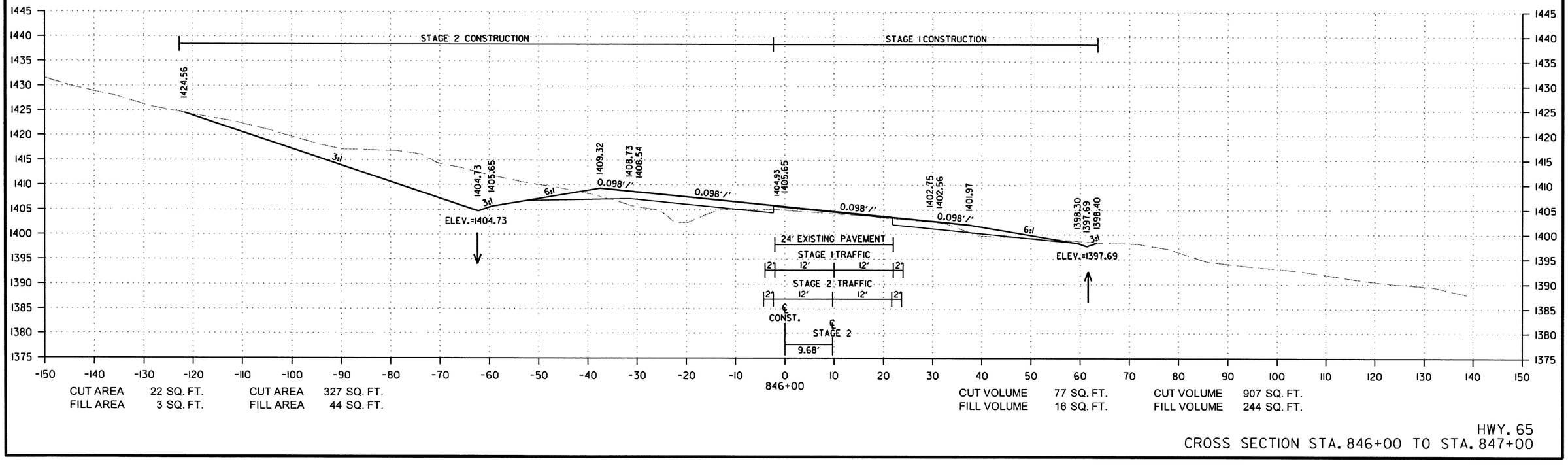
RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	525	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





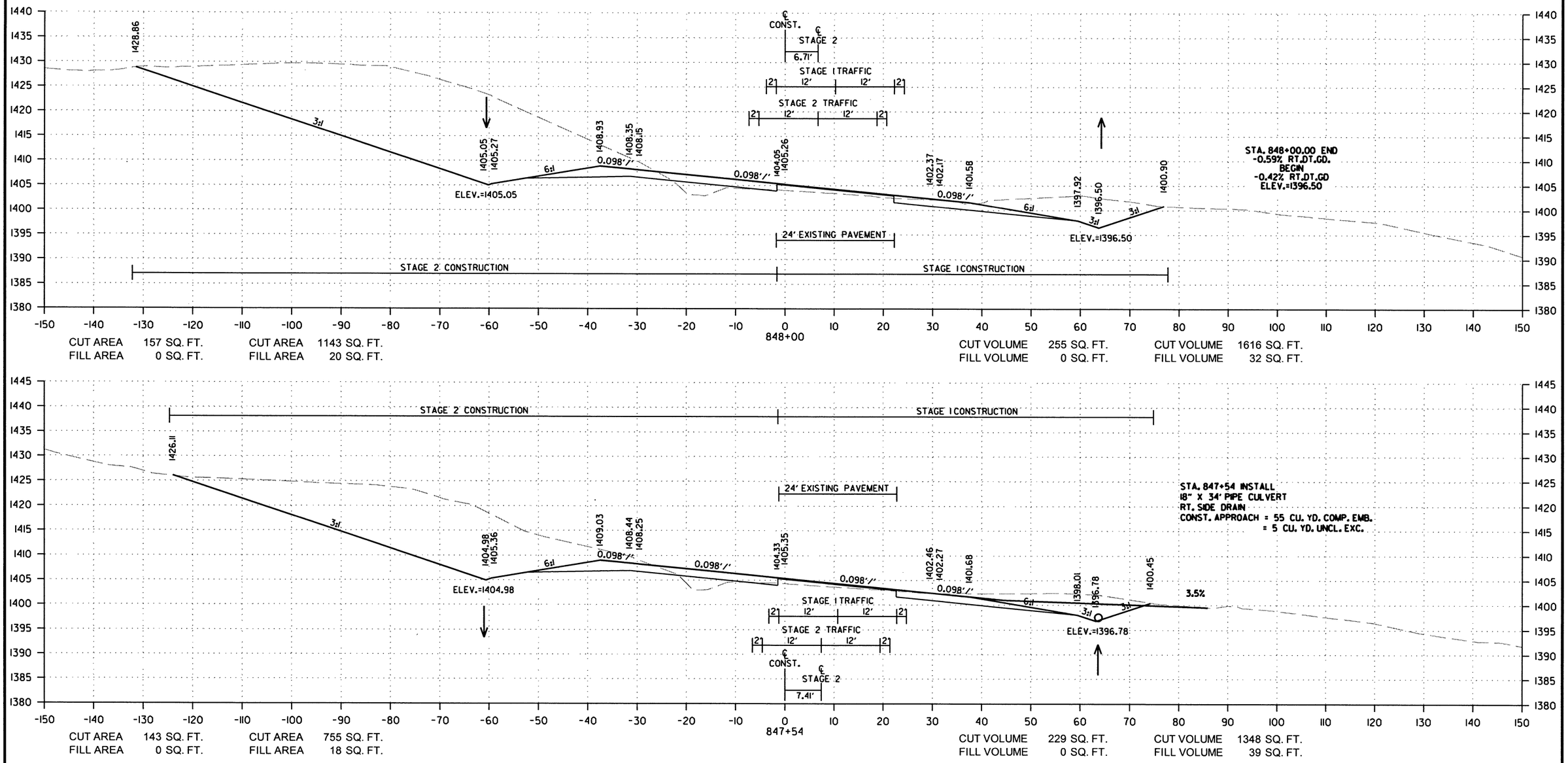
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 846+00 TO STA. 847+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	526	605

(2) CROSS SECTIONS



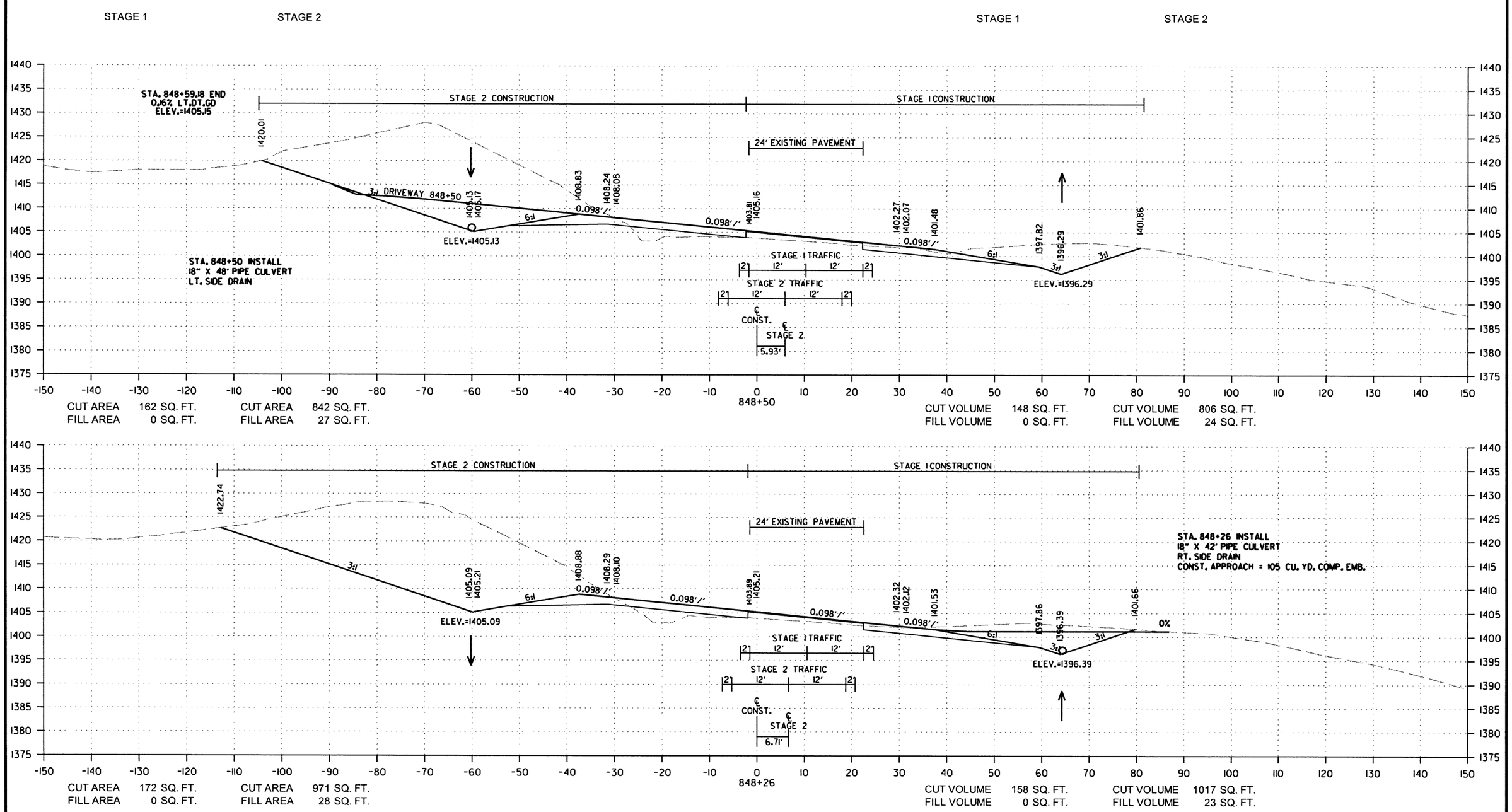
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 847+54 TO STA. 848+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	527	605

(2) CROSS SECTIONS



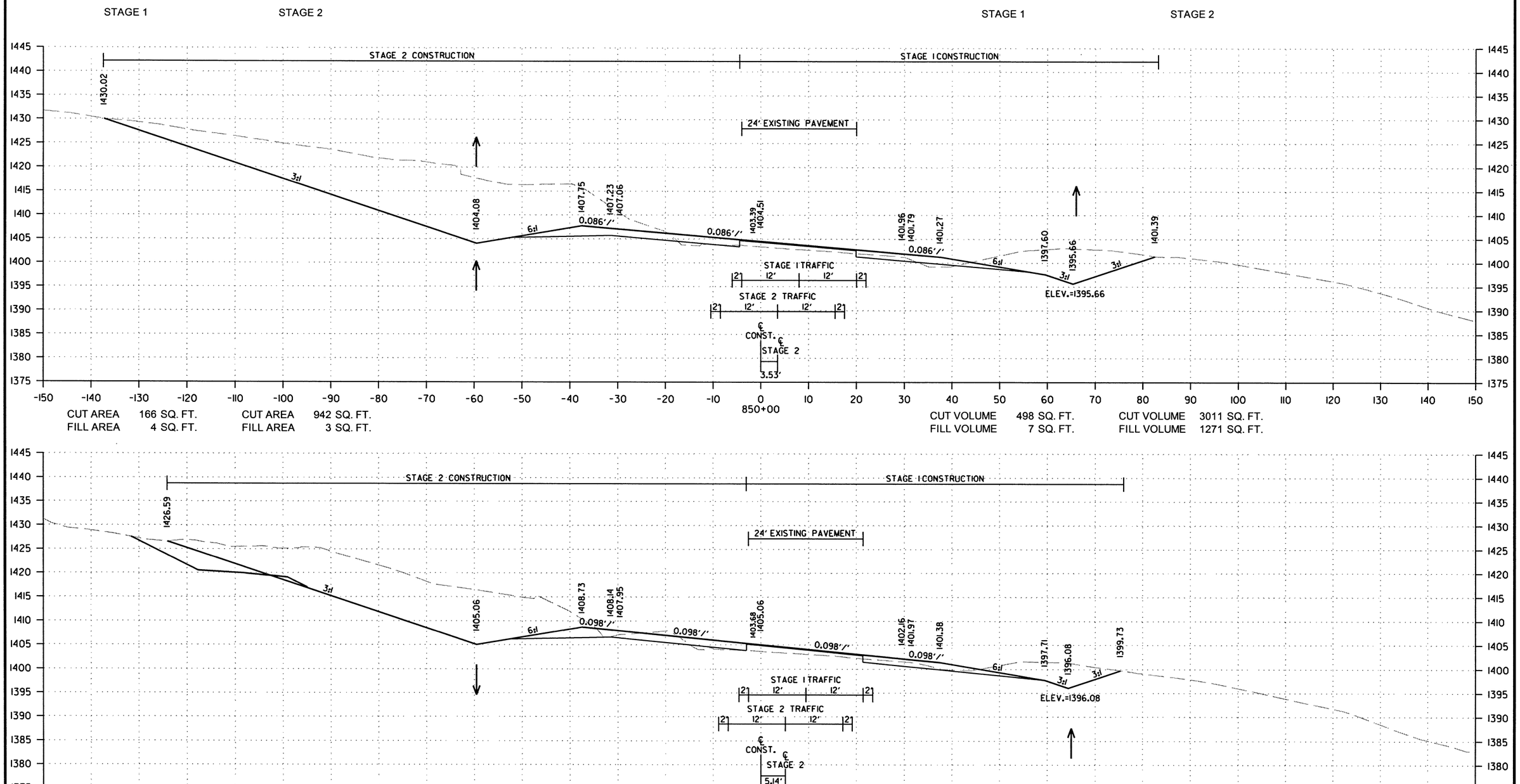
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 848+26 TO STA. 848+50

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	528	605

(2) CROSS SECTIONS



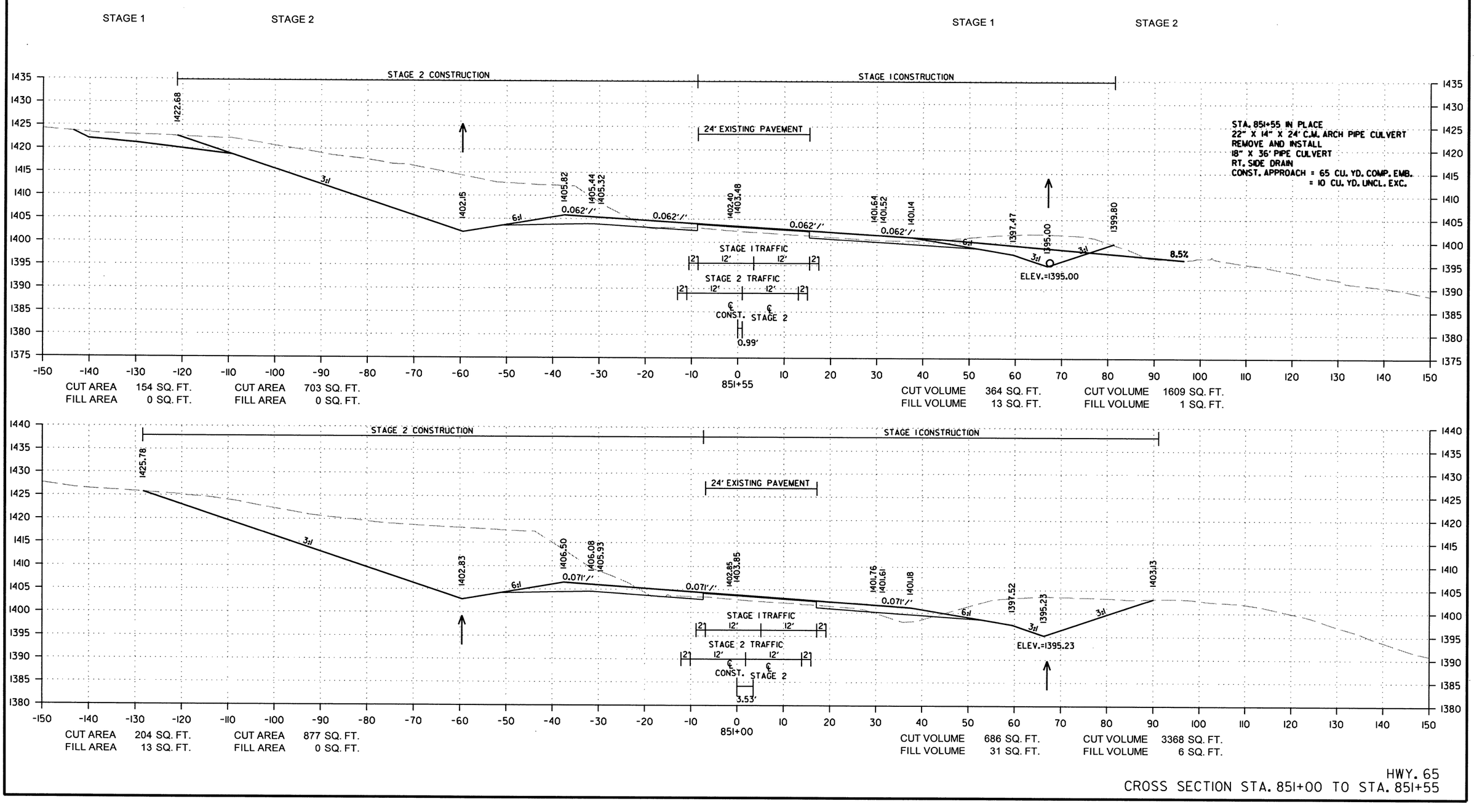
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 849+00 TO STA. 850+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	529	605

(2) CROSS SECTIONS



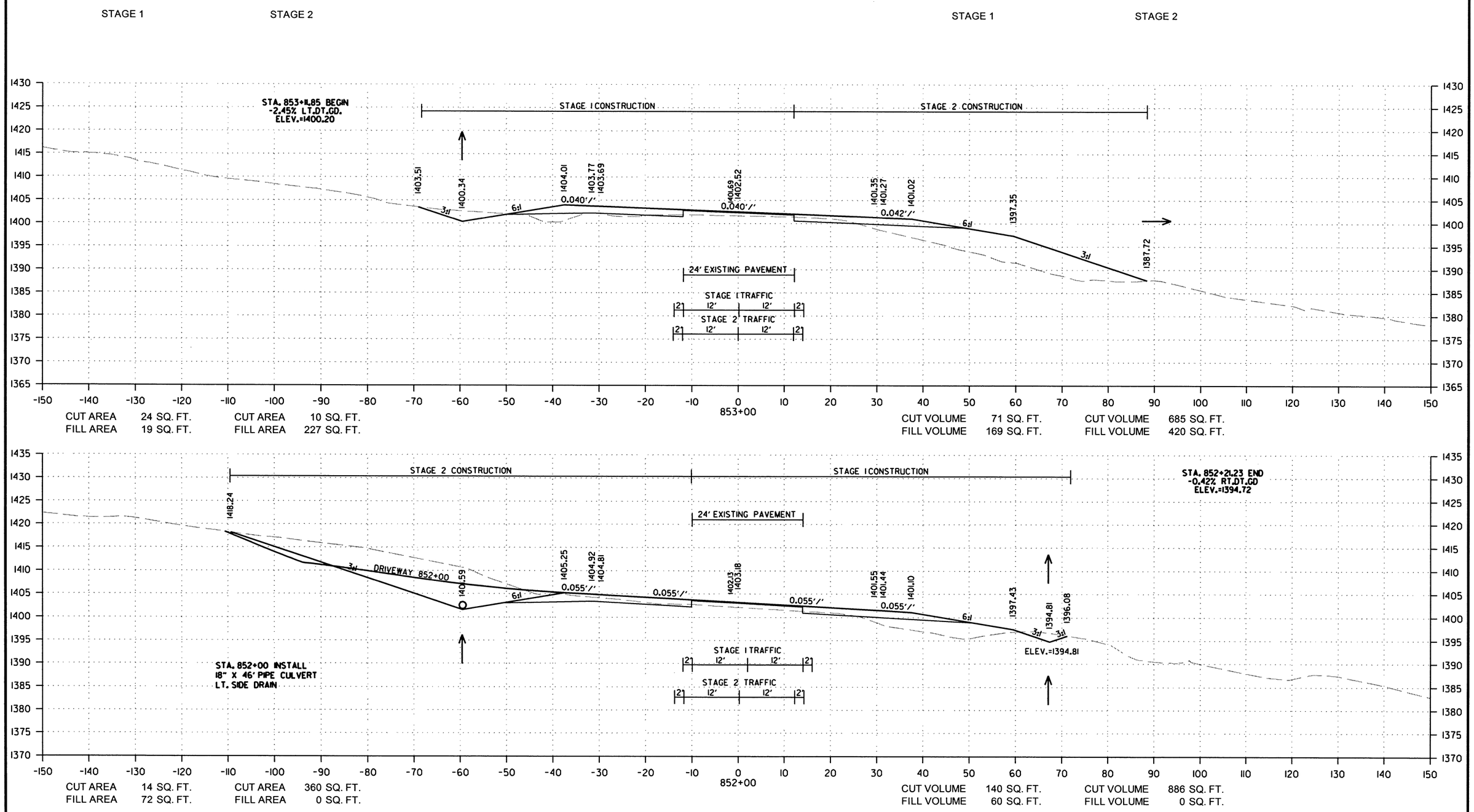
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 851+00 TO STA. 851+55

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	530	605

(2) CROSS SECTIONS



11/13/2018

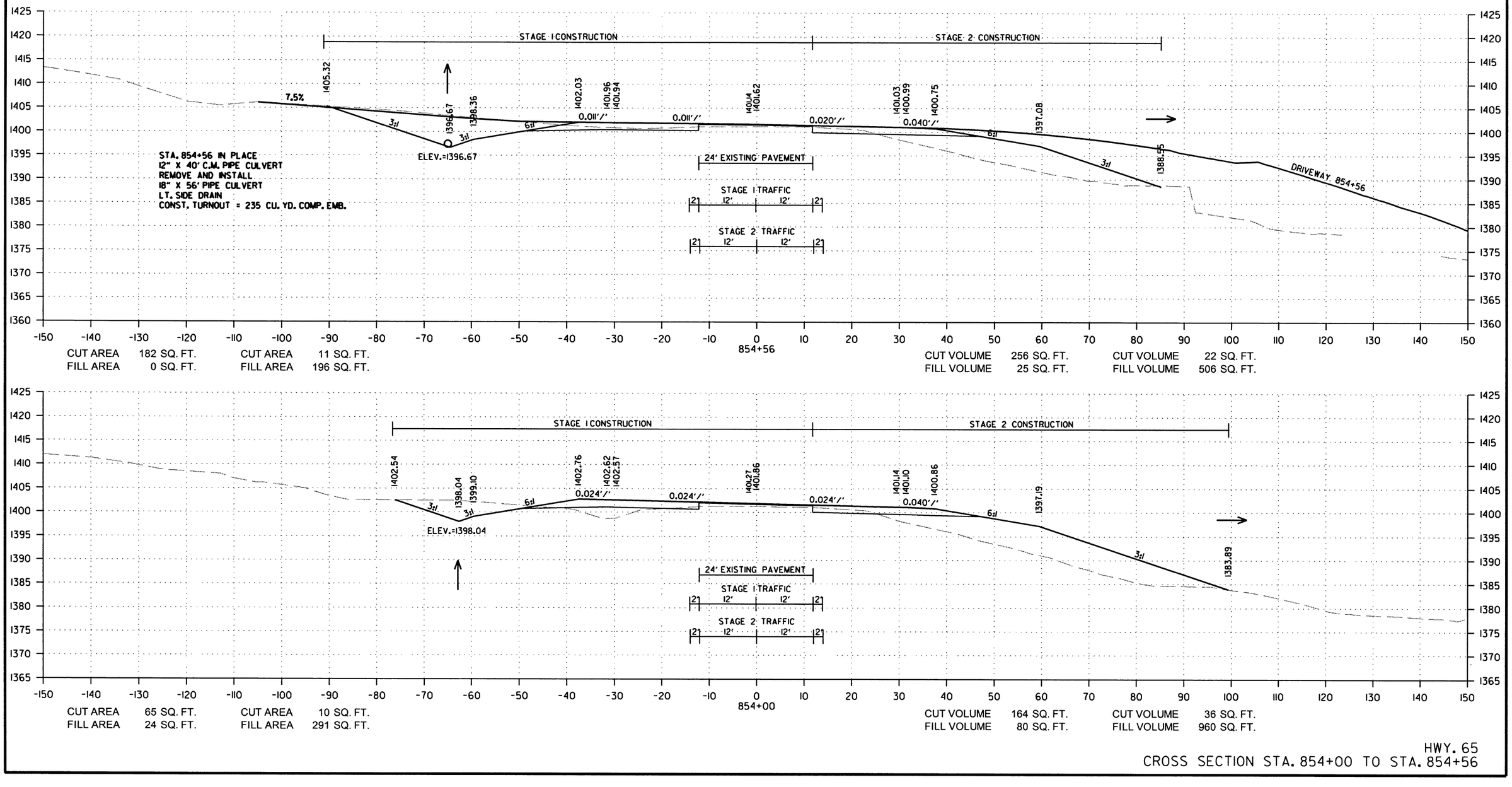
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 852+00 TO STA. 853+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	531	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



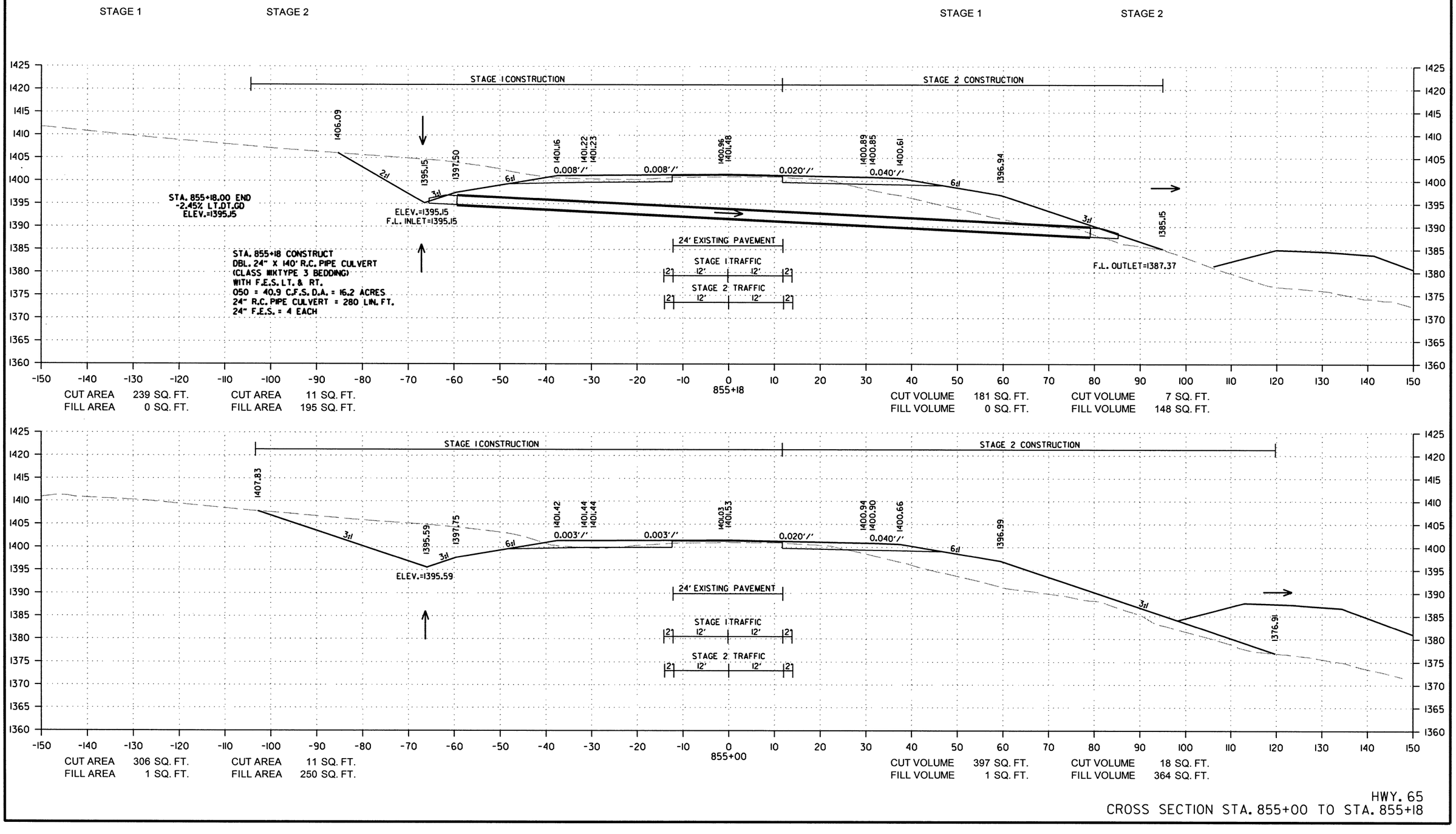
HWY. 65
CROSS SECTION STA. 854+00 TO STA. 854+56

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	532	605

(2) CROSS SECTIONS



11/13/2018

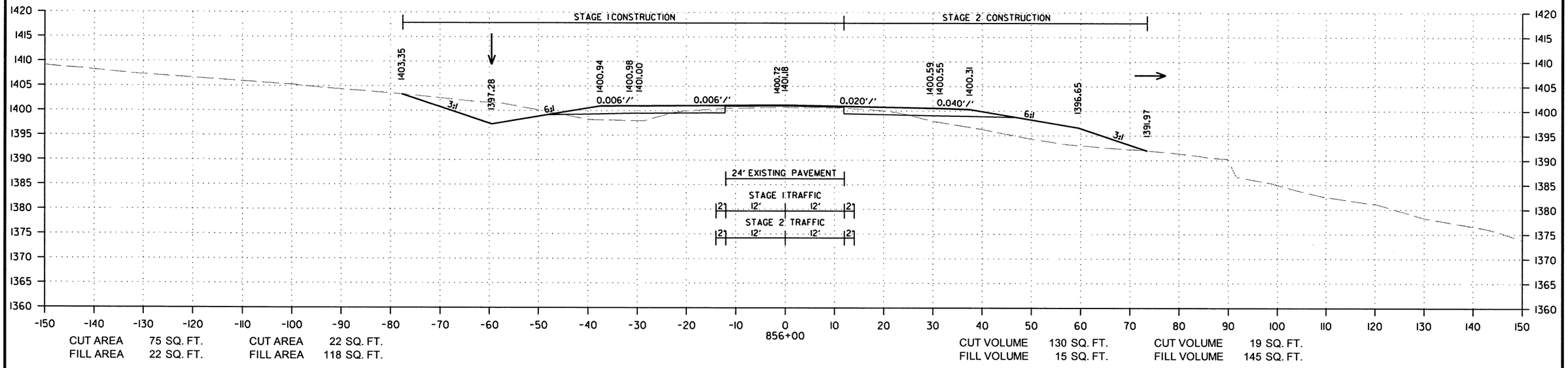
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 855+00 TO STA. 855+18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	533	605

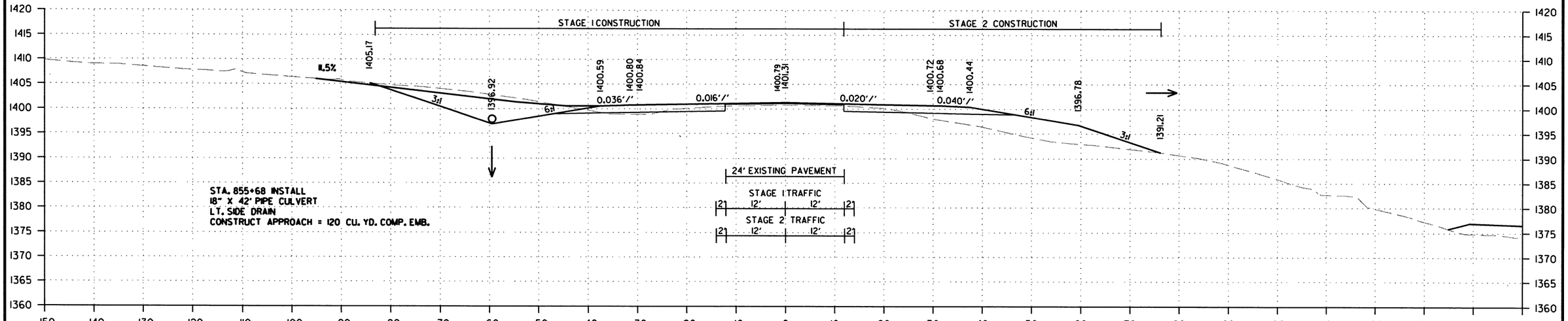
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 75 SQ. FT. CUT AREA 22 SQ. FT.
FILL AREA 22 SQ. FT. FILL AREA 118 SQ. FT.

CUT VOLUME 130 SQ. FT. CUT VOLUME 19 SQ. FT.
FILL VOLUME 15 SQ. FT. FILL VOLUME 145 SQ. FT.



CUT AREA 144 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 4 SQ. FT. FILL AREA 128 SQ. FT.

CUT VOLUME 354 SQ. FT. CUT VOLUME 19 SQ. FT.
FILL VOLUME 3 SQ. FT. FILL VOLUME 299 SQ. FT.

11/13/2018

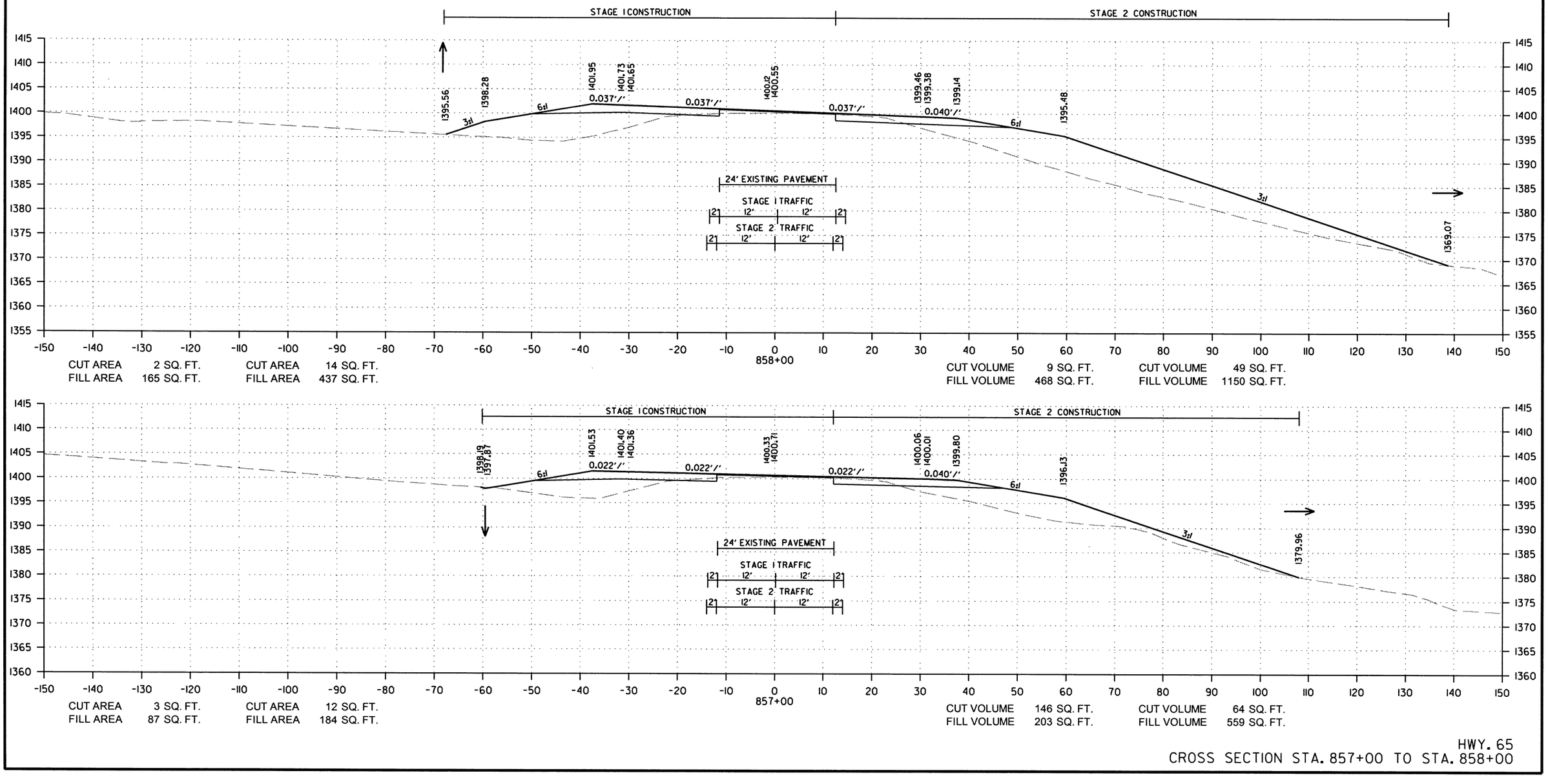
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 855+68 TO STA. 856+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	534	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



HWY. 65
CROSS SECTION STA. 857+00 TO STA. 858+00

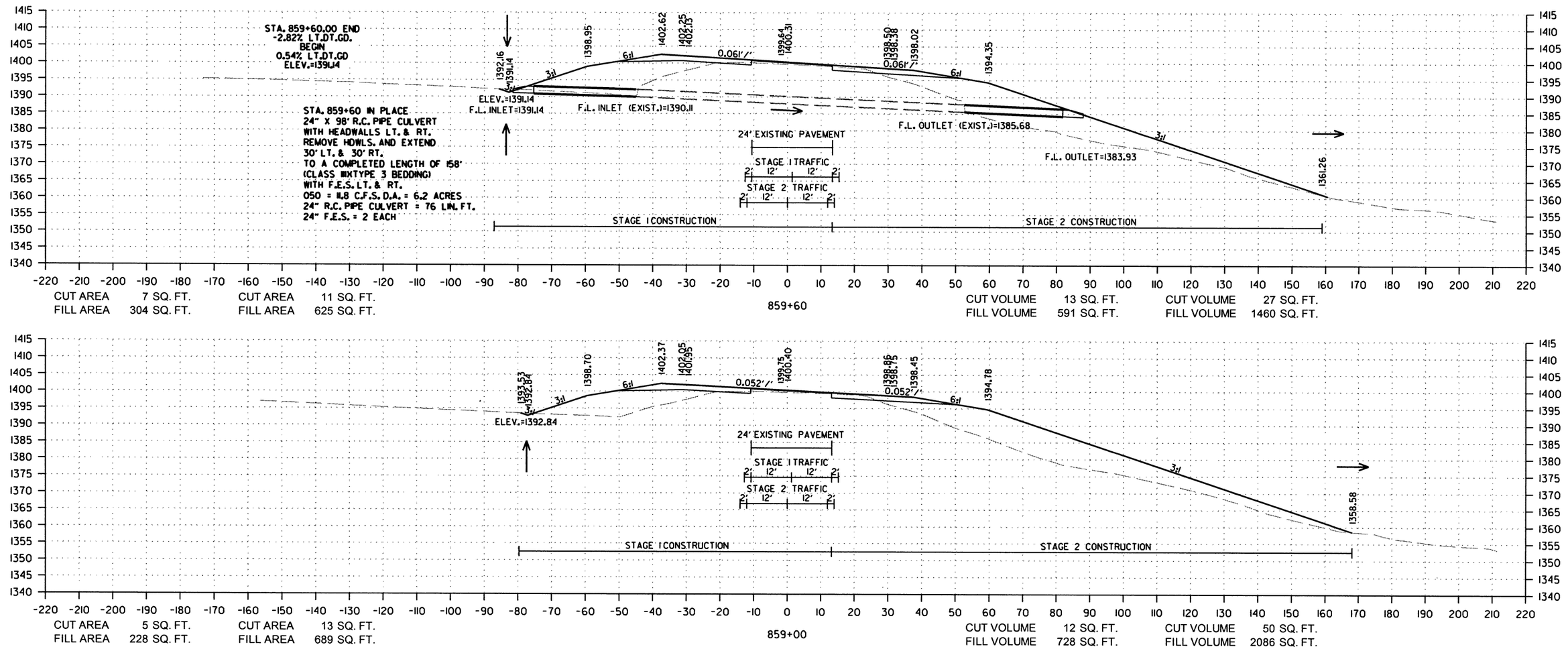
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	535	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

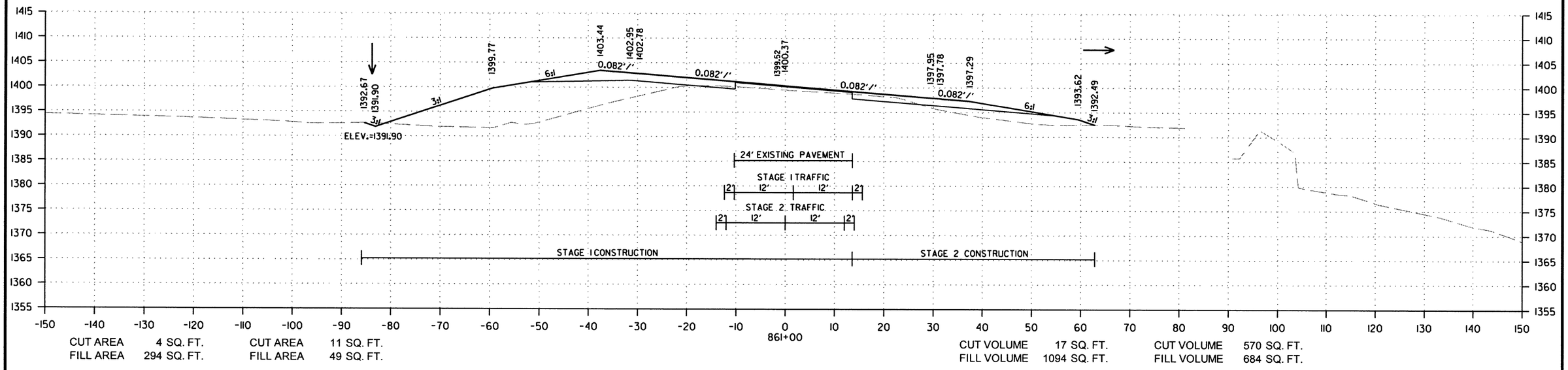
RCA0801.DGN

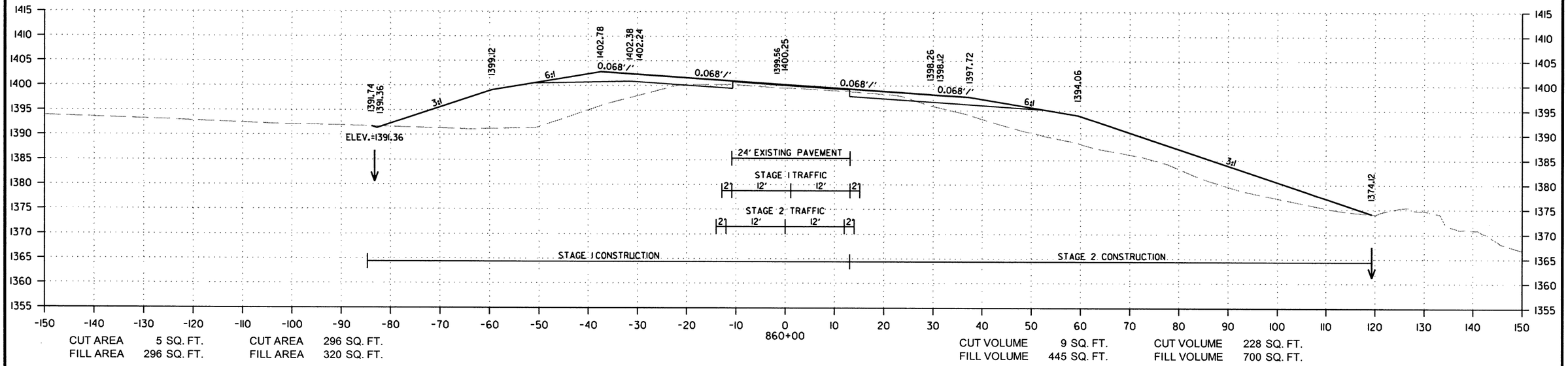
HWY. 65
CROSS SECTION STA. 859+00 TO STA. 859+60

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	536	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





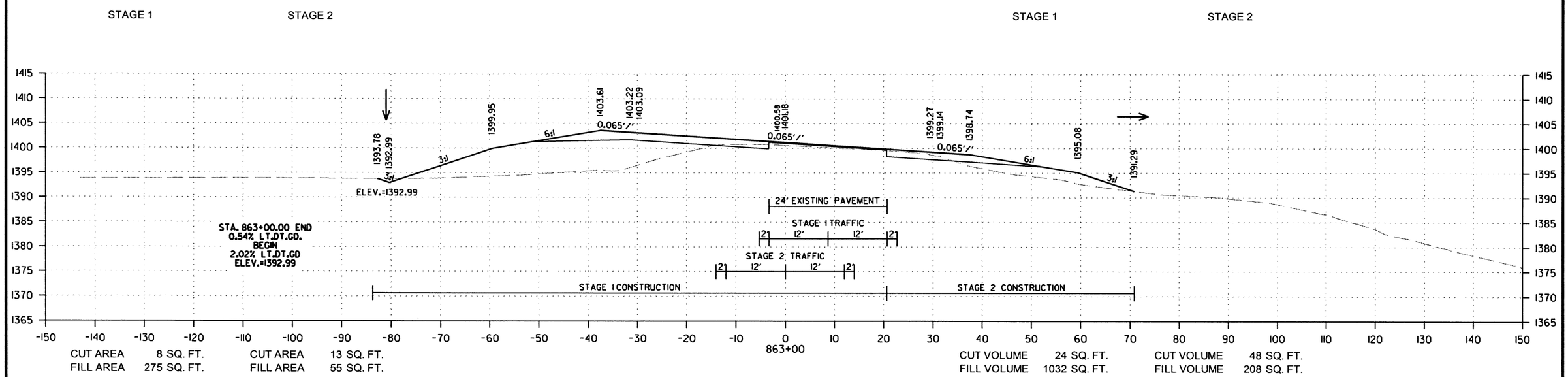
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 860+00 TO STA. 861+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	537	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 862+00 TO STA. 863+00

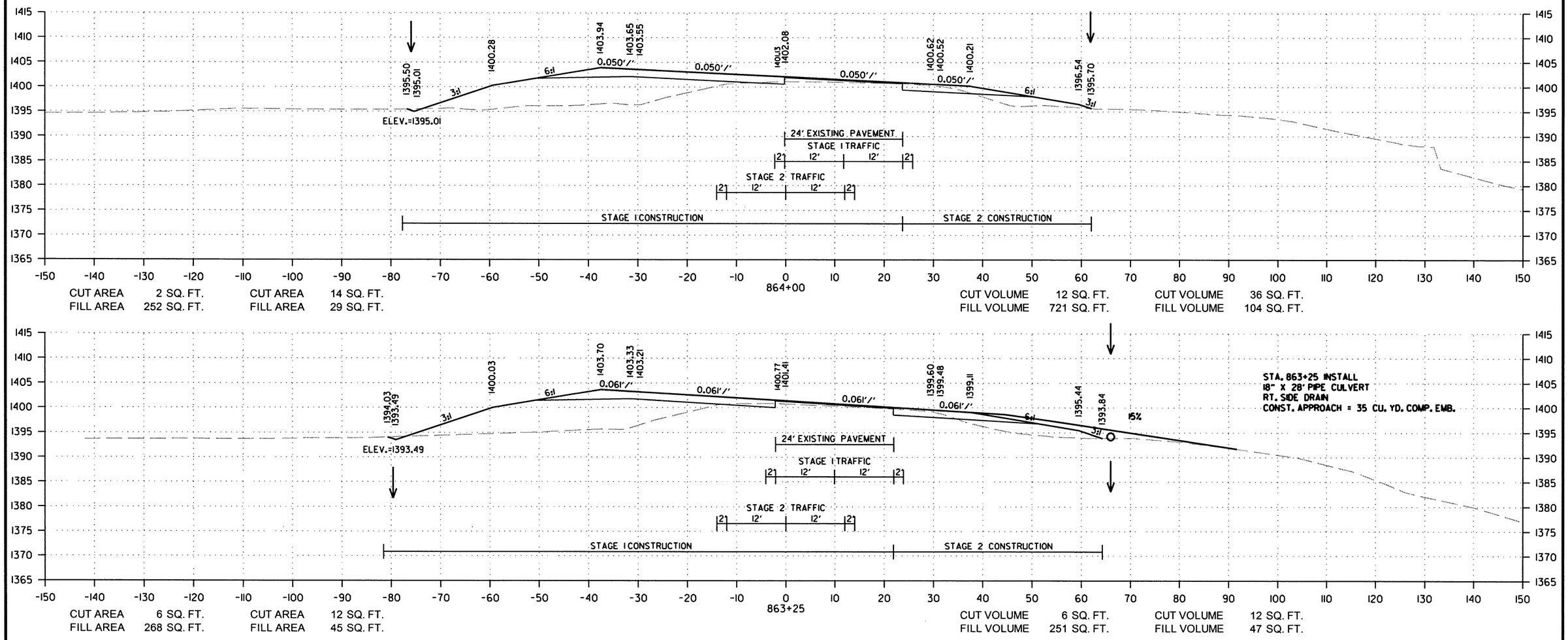
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	538	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



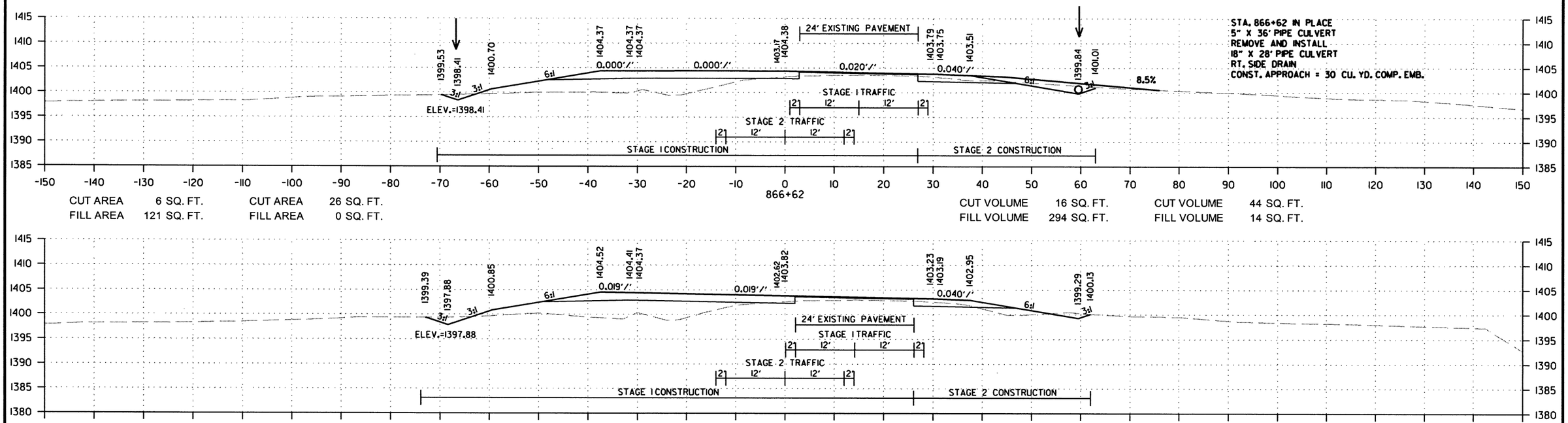
HWY. 65
CROSS SECTION STA. 863+25 TO STA. 864+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	539	605

(2) CROSS SECTIONS



11/13/2018

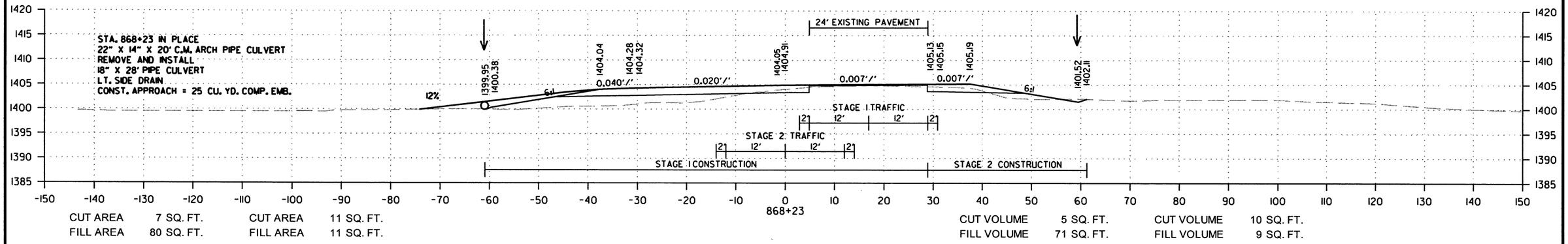
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 865+00 TO STA. 866+62

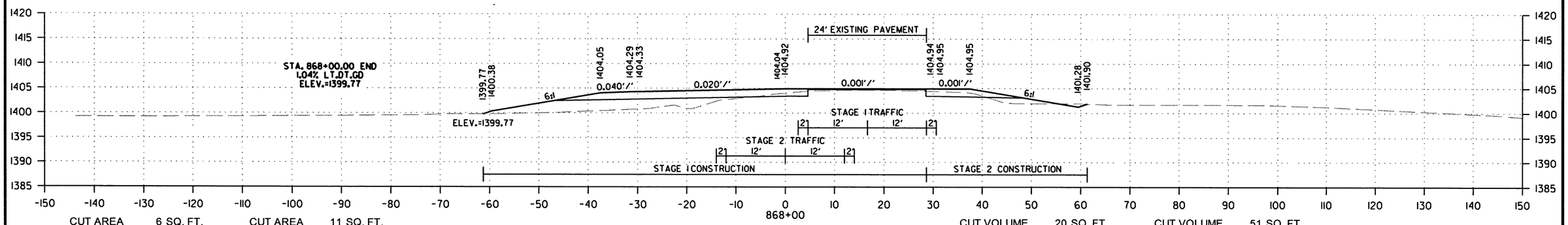
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	540	605

(2) CROSS SECTIONS

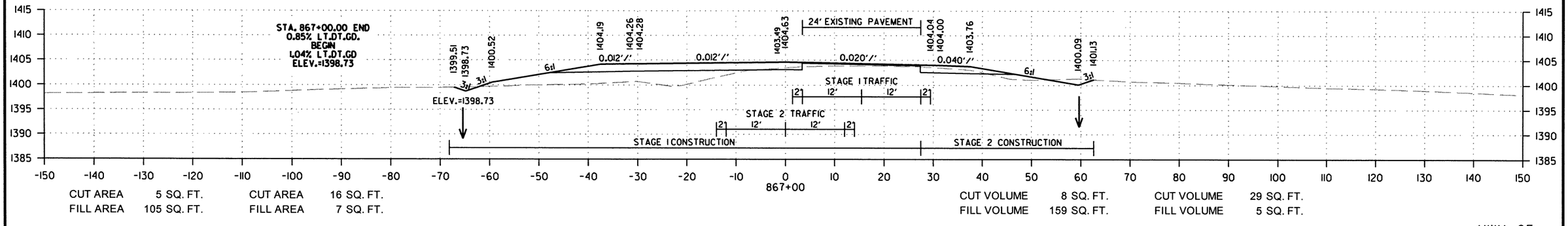
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	7 SQ. FT.	CUT AREA	11 SQ. FT.	CUT VOLUME	5 SQ. FT.	CUT VOLUME	10 SQ. FT.
FILL AREA	80 SQ. FT.	FILL AREA	11 SQ. FT.	FILL VOLUME	71 SQ. FT.	FILL VOLUME	9 SQ. FT.



CUT AREA	6 SQ. FT.	CUT AREA	11 SQ. FT.	CUT VOLUME	20 SQ. FT.	CUT VOLUME	51 SQ. FT.
FILL AREA	86 SQ. FT.	FILL AREA	11 SQ. FT.	FILL VOLUME	354 SQ. FT.	FILL VOLUME	35 SQ. FT.



CUT AREA	5 SQ. FT.	CUT AREA	16 SQ. FT.	CUT VOLUME	8 SQ. FT.	CUT VOLUME	29 SQ. FT.
FILL AREA	105 SQ. FT.	FILL AREA	7 SQ. FT.	FILL VOLUME	159 SQ. FT.	FILL VOLUME	5 SQ. FT.

HWY. 65
CROSS SECTION STA. 867+00 TO STA. 868+23

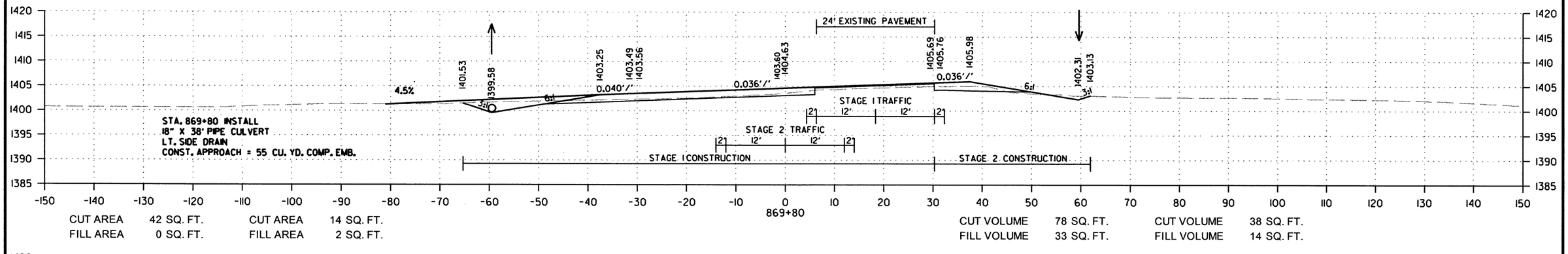
11/13/2018

RCA0801.DGN

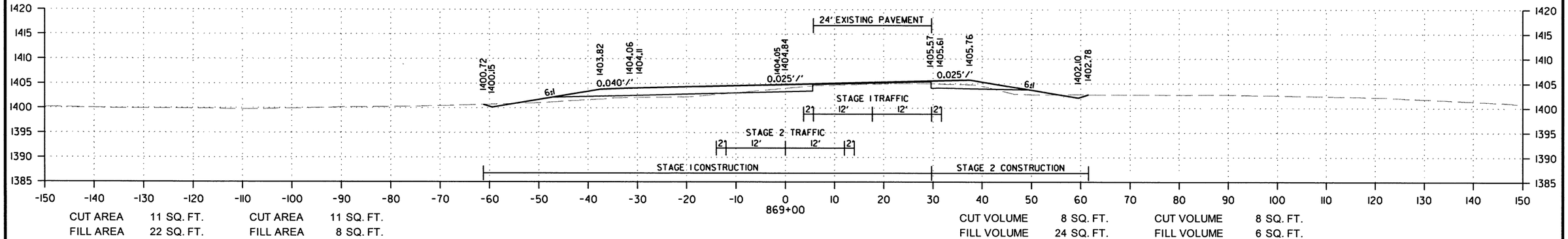
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	541	605

(2) CROSS SECTIONS

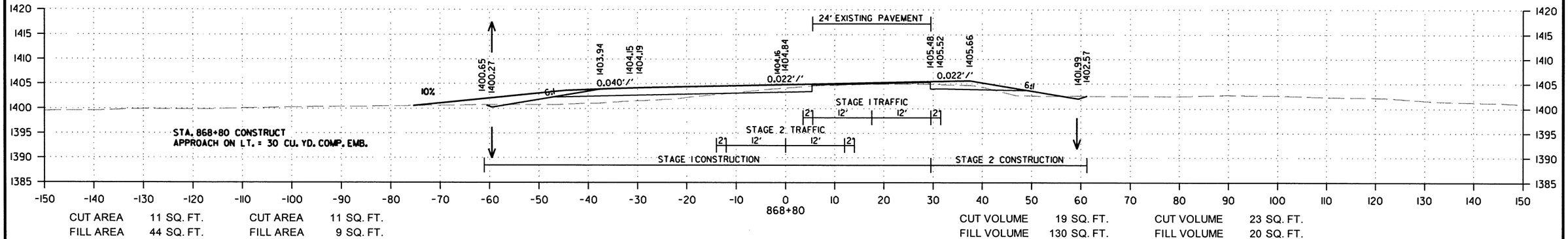
STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	42 SQ. FT.	CUT AREA	14 SQ. FT.	CUT VOLUME	78 SQ. FT.	CUT VOLUME	38 SQ. FT.
FILL AREA	0 SQ. FT.	FILL AREA	2 SQ. FT.	FILL VOLUME	33 SQ. FT.	FILL VOLUME	14 SQ. FT.



CUT AREA	11 SQ. FT.	CUT AREA	11 SQ. FT.	CUT VOLUME	8 SQ. FT.	CUT VOLUME	8 SQ. FT.
FILL AREA	22 SQ. FT.	FILL AREA	8 SQ. FT.	FILL VOLUME	24 SQ. FT.	FILL VOLUME	6 SQ. FT.



CUT AREA	11 SQ. FT.	CUT AREA	11 SQ. FT.	CUT VOLUME	19 SQ. FT.	CUT VOLUME	23 SQ. FT.
FILL AREA	44 SQ. FT.	FILL AREA	9 SQ. FT.	FILL VOLUME	130 SQ. FT.	FILL VOLUME	20 SQ. FT.

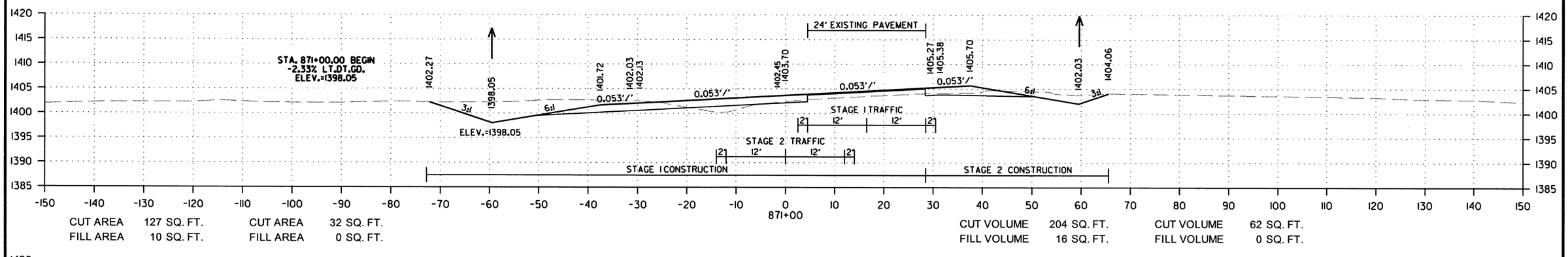
HWY. 65
CROSS SECTION STA. 868+80 TO STA. 869+80

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	542	605

(2) CROSS SECTIONS



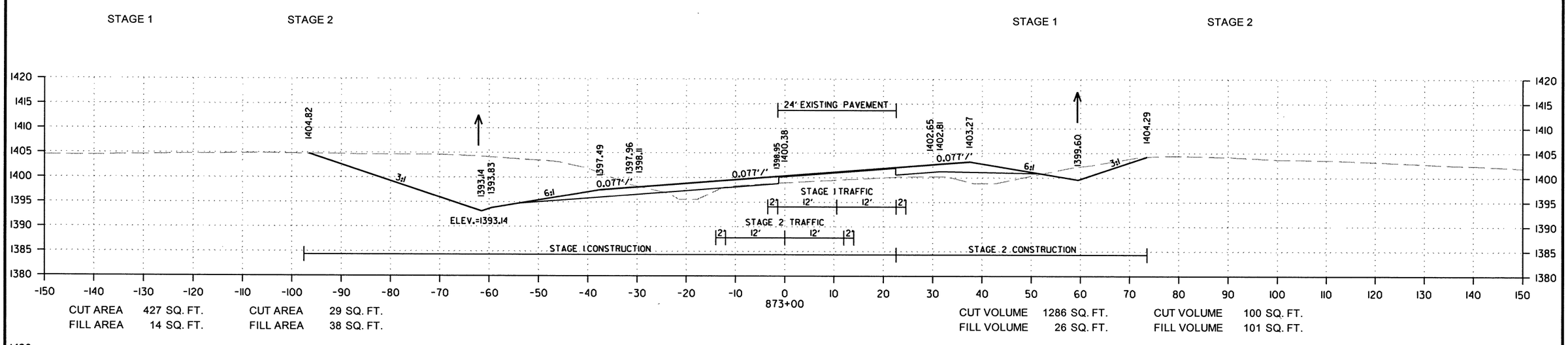
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 870+00 TO STA. 871+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	543	605

(2) CROSS SECTIONS



11/13/2018

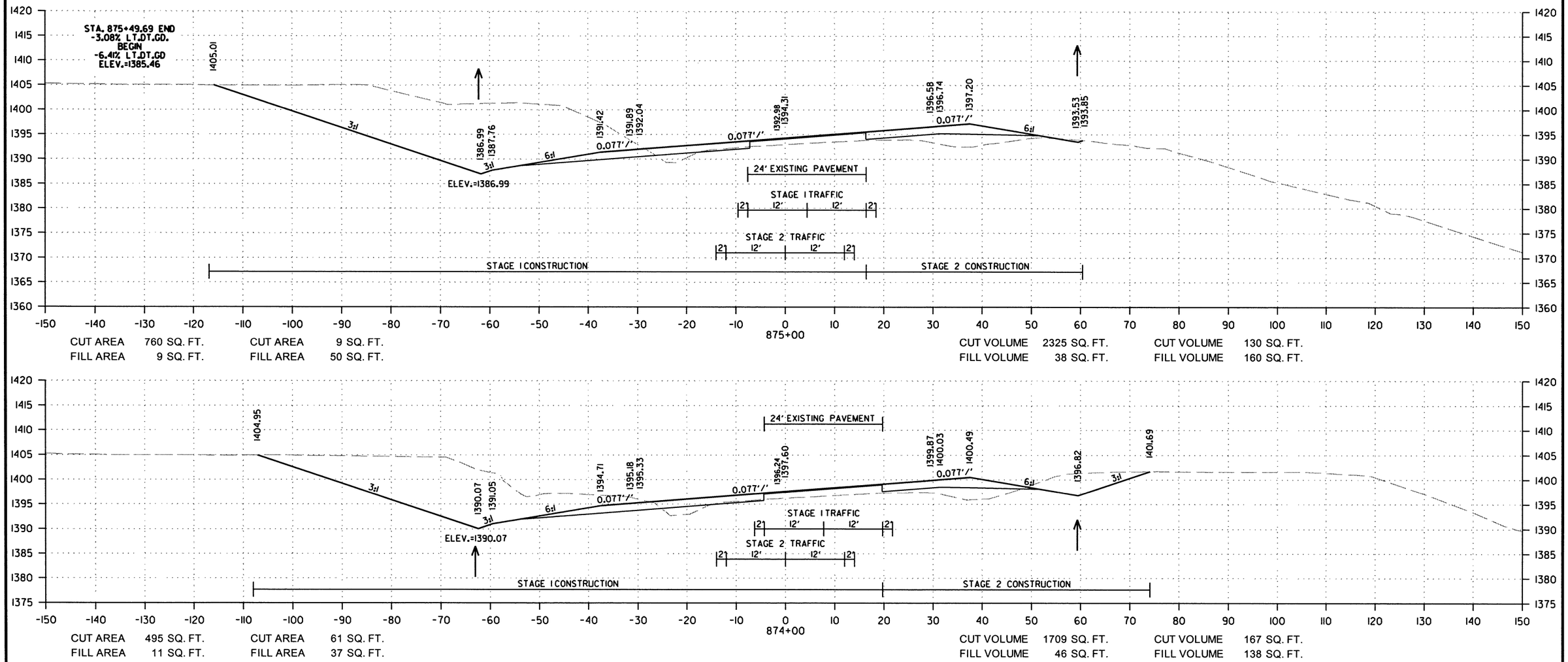
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 871+41 TO STA. 873+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	544	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

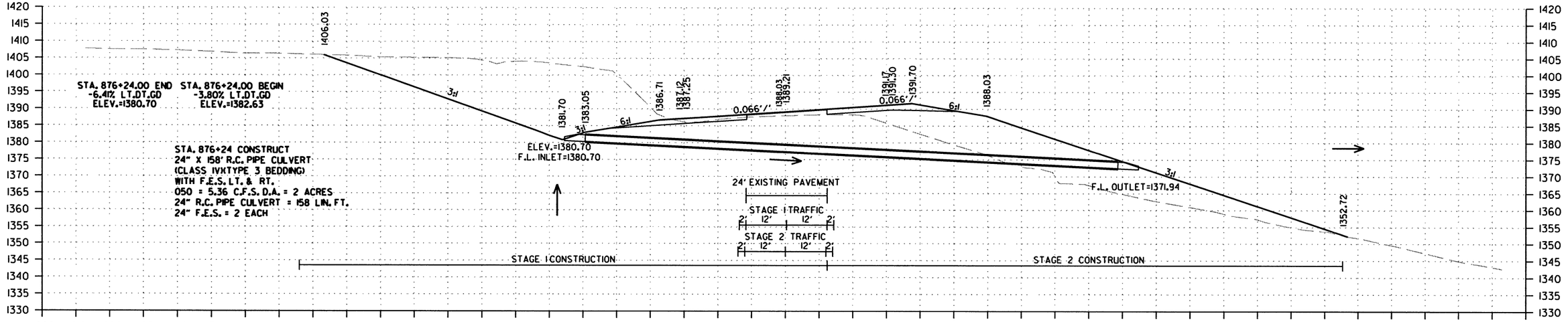
RCA0801.DGN

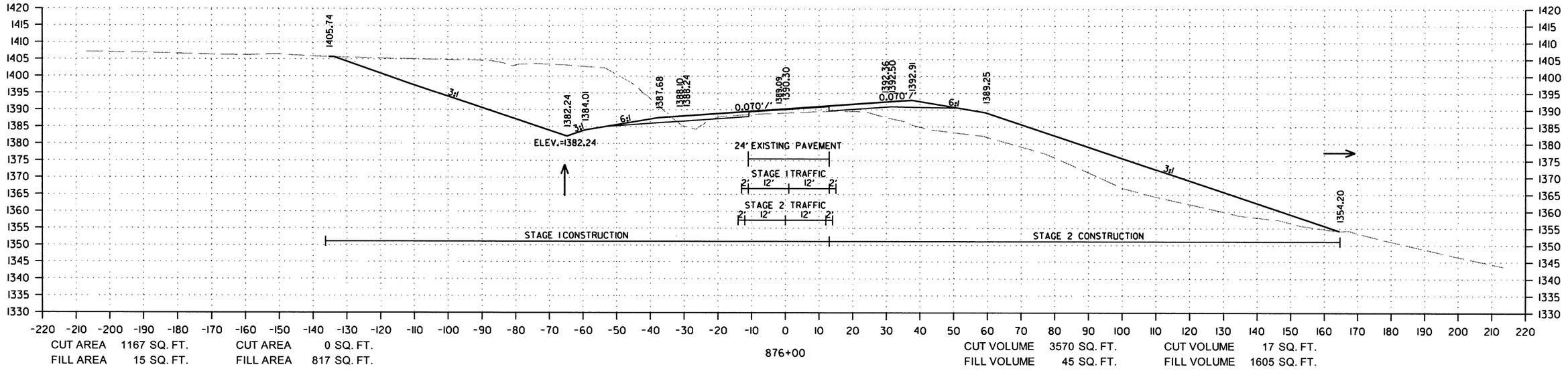
HWY. 65
CROSS SECTION STA. 874+00 TO STA. 875+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	545	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2





11/13/2018

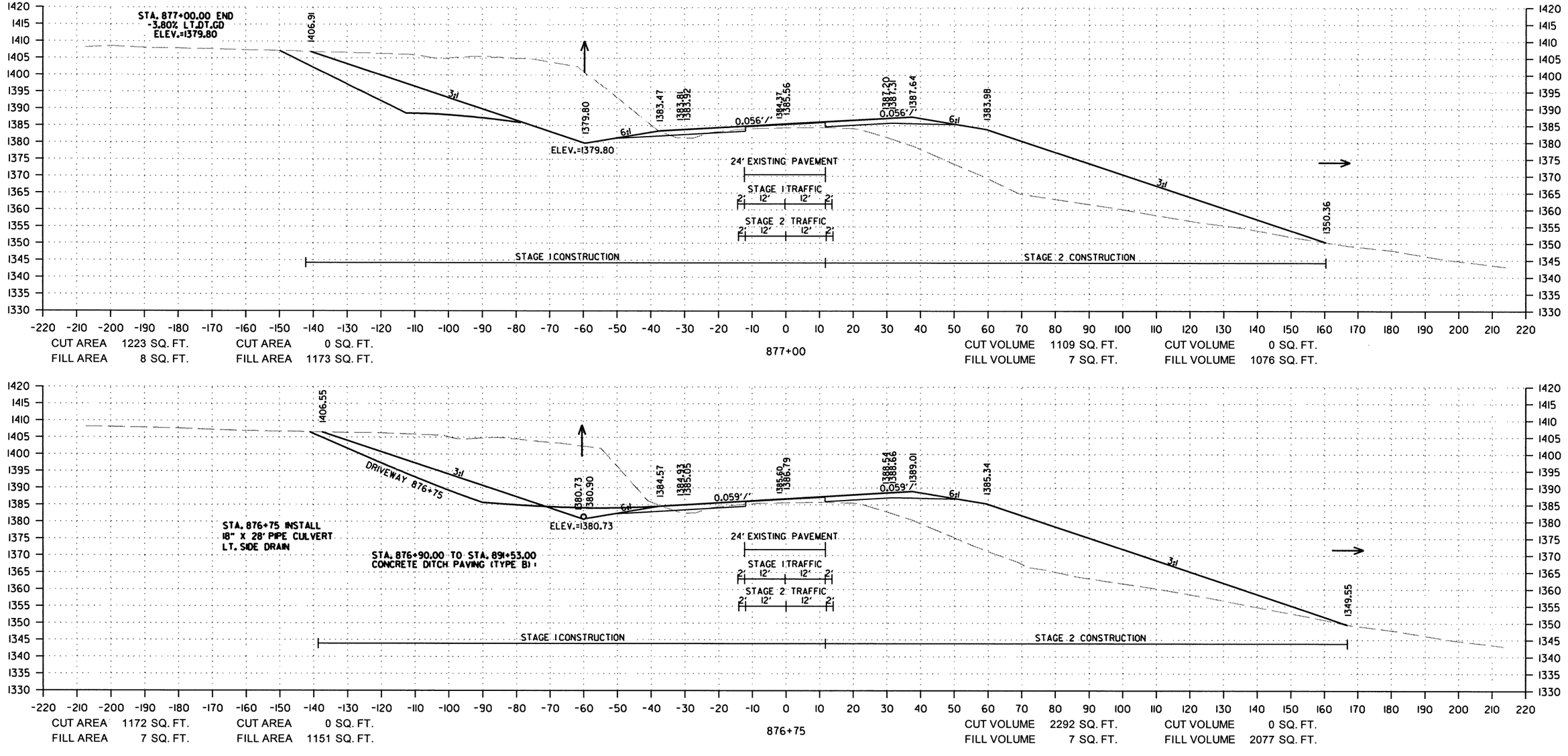
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 876+00 TO STA. 876+24

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	546	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



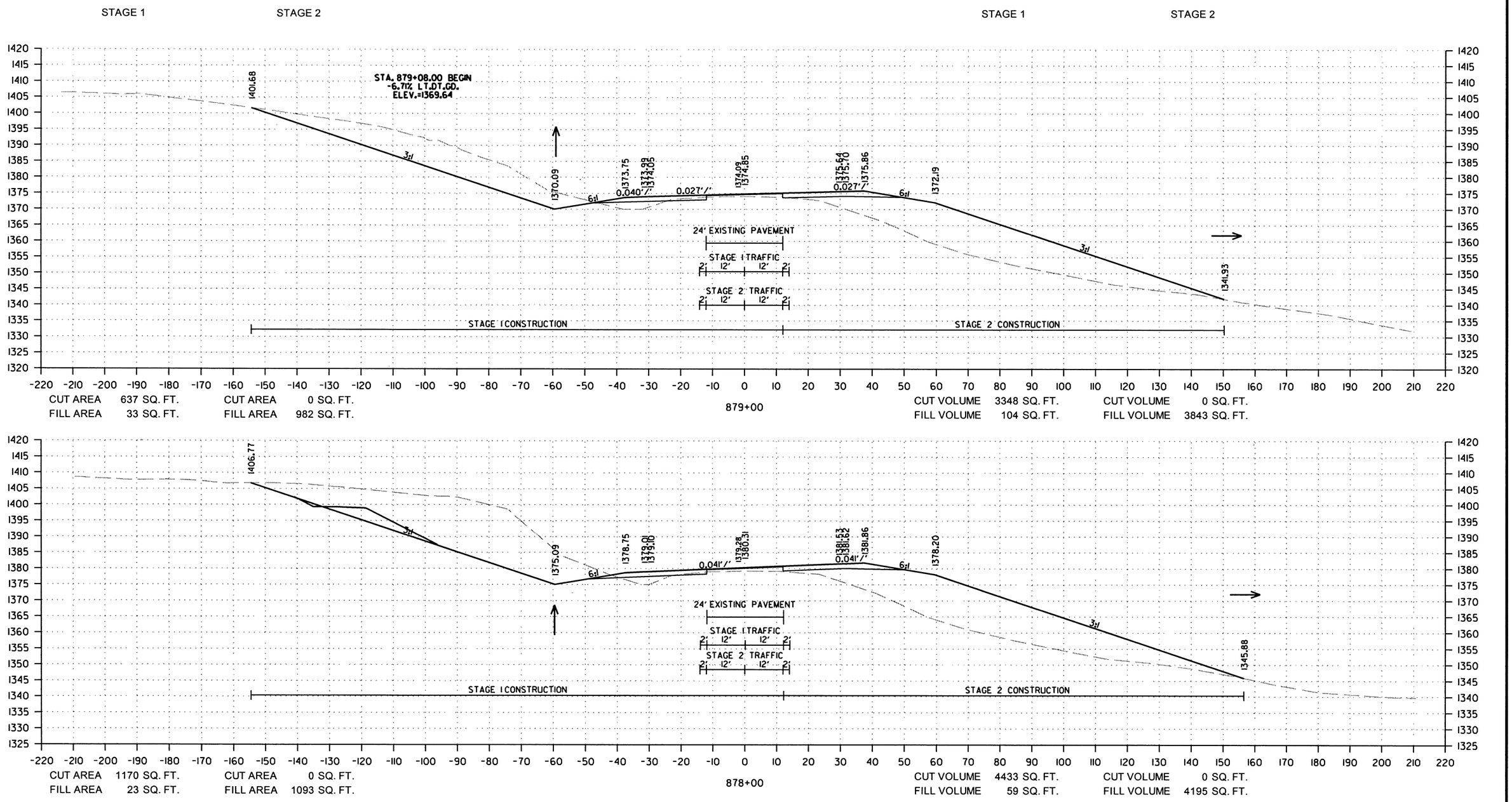
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 876+75 TO STA. 877+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	547	605

(2) CROSS SECTIONS



11/13/2018

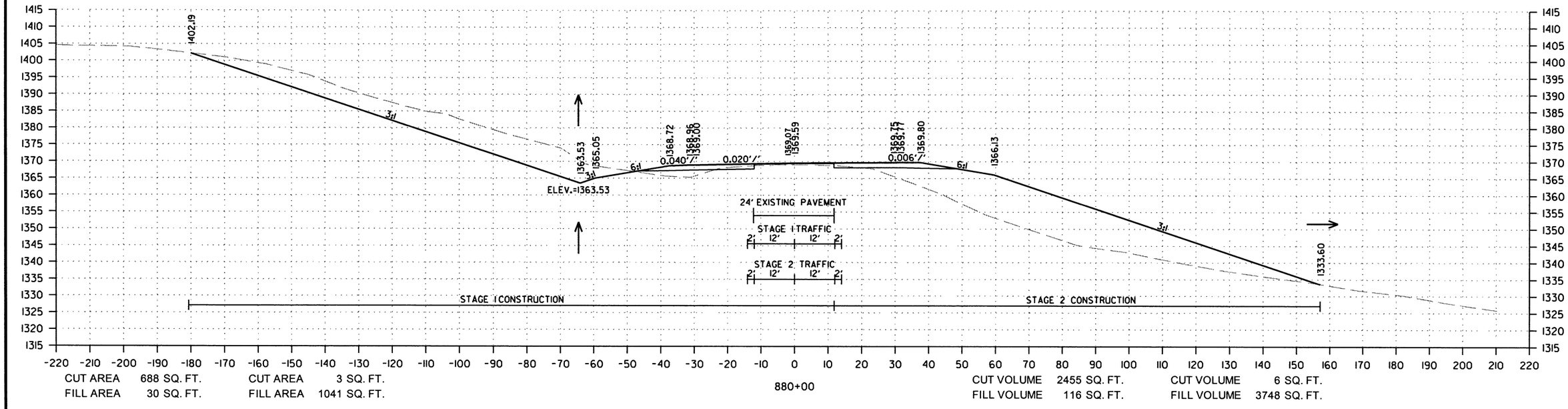
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 878+00 TO STA. 879+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	548	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 688 SQ. FT. CUT AREA 3 SQ. FT.
FILL AREA 30 SQ. FT. FILL AREA 1041 SQ. FT.

CUT VOLUME 2455 SQ. FT. CUT VOLUME 6 SQ. FT.
FILL VOLUME 116 SQ. FT. FILL VOLUME 3748 SQ. FT.

11/13/2018

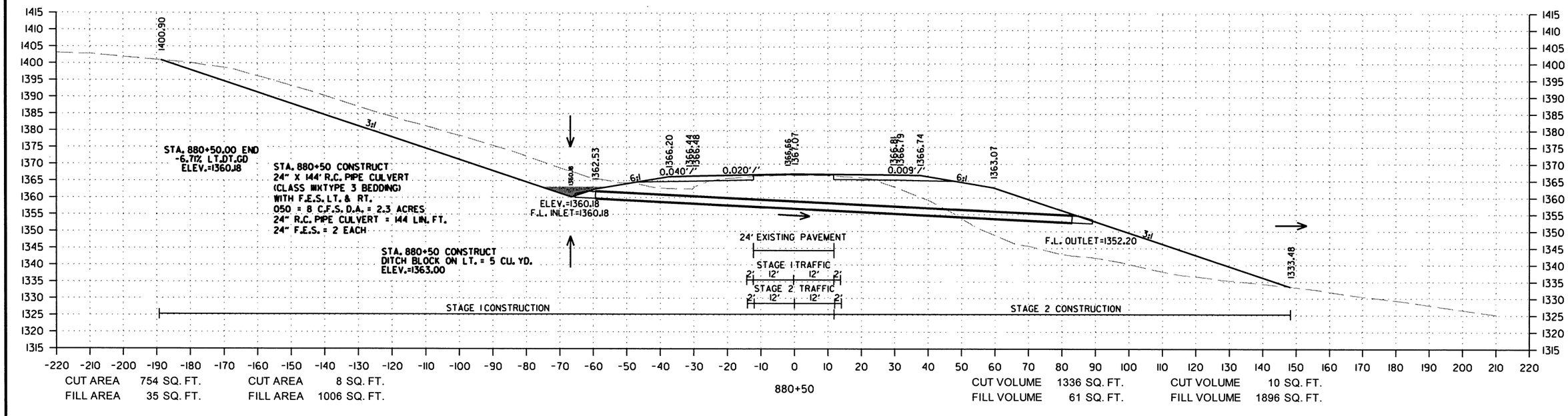
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 880+00 TO STA. 880+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	549	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



11/13/2018

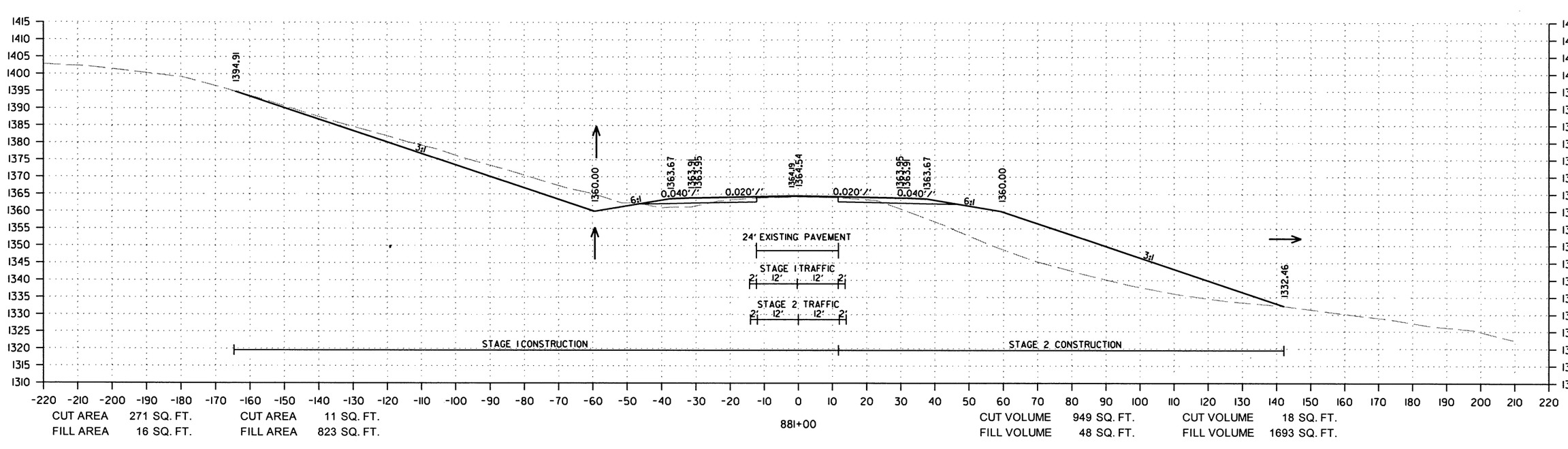
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 880+50 TO STA. 880+50

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	550	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 271 SQ. FT. CUT AREA 11 SQ. FT.
FILL AREA 16 SQ. FT. FILL AREA 823 SQ. FT.

CUT VOLUME 949 SQ. FT. CUT VOLUME 18 SQ. FT.
FILL VOLUME 48 SQ. FT. FILL VOLUME 1693 SQ. FT.

11/13/2018

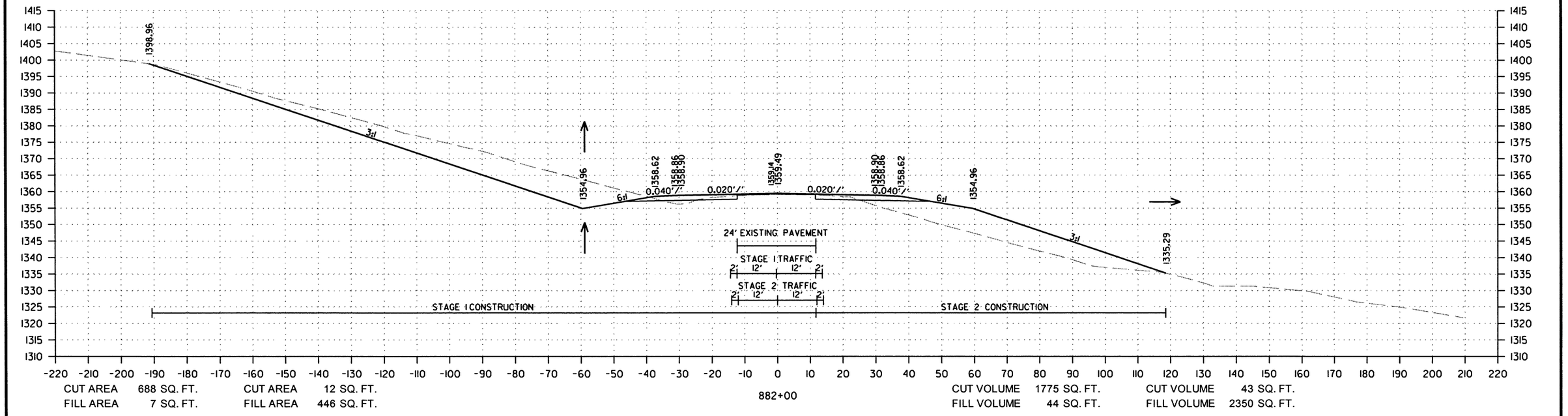
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 881+00 TO STA. 881+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	551	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



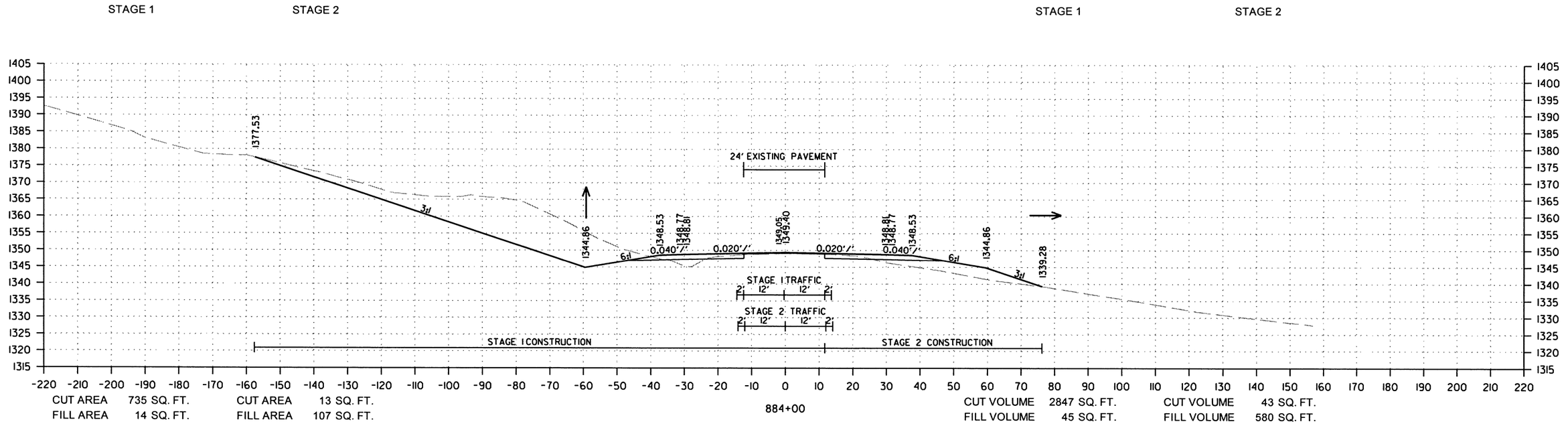
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 882+00 TO STA. 882+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	552	605

(2) CROSS SECTIONS



11/13/2018

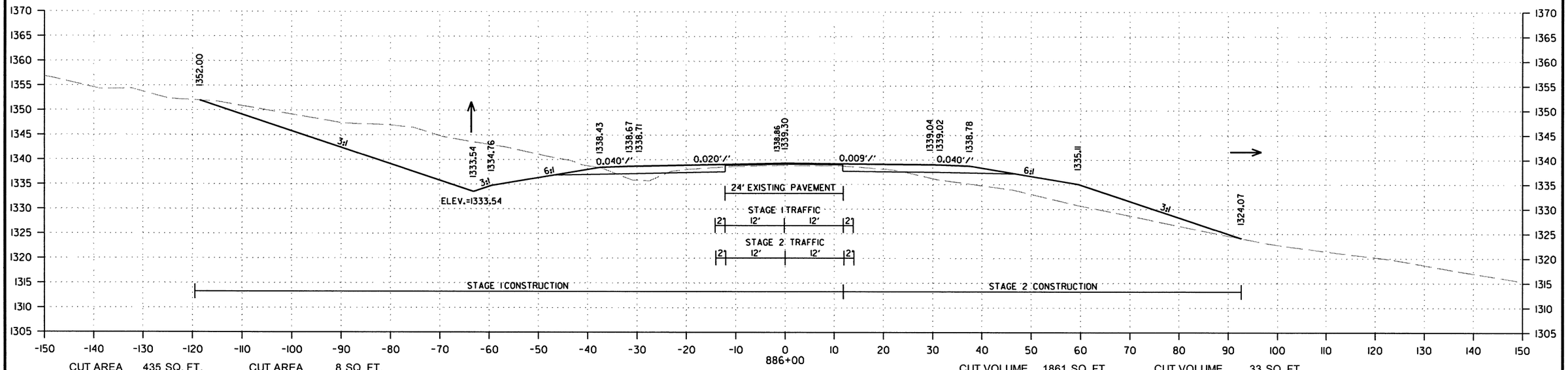
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 883+00 TO STA. 884+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	553	605

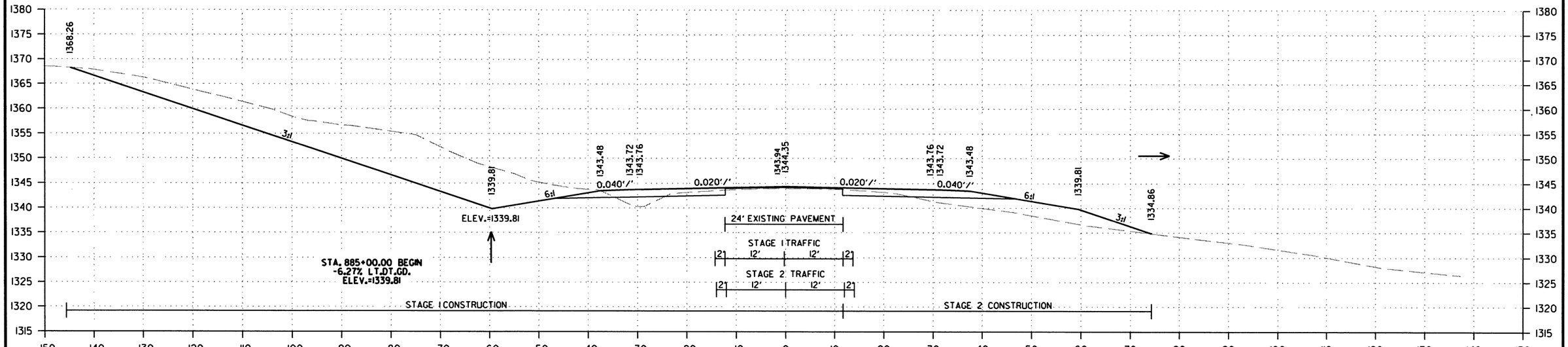
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 435 SQ. FT. CUT AREA 8 SQ. FT.
FILL AREA 10 SQ. FT. FILL AREA 165 SQ. FT.

CUT VOLUME 1861 SQ. FT. CUT VOLUME 33 SQ. FT.
FILL VOLUME 40 SQ. FT. FILL VOLUME 482 SQ. FT.



CUT AREA 570 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 12 SQ. FT. FILL AREA 95 SQ. FT.

CUT VOLUME 2417 SQ. FT. CUT VOLUME 43 SQ. FT.
FILL VOLUME 48 SQ. FT. FILL VOLUME 375 SQ. FT.

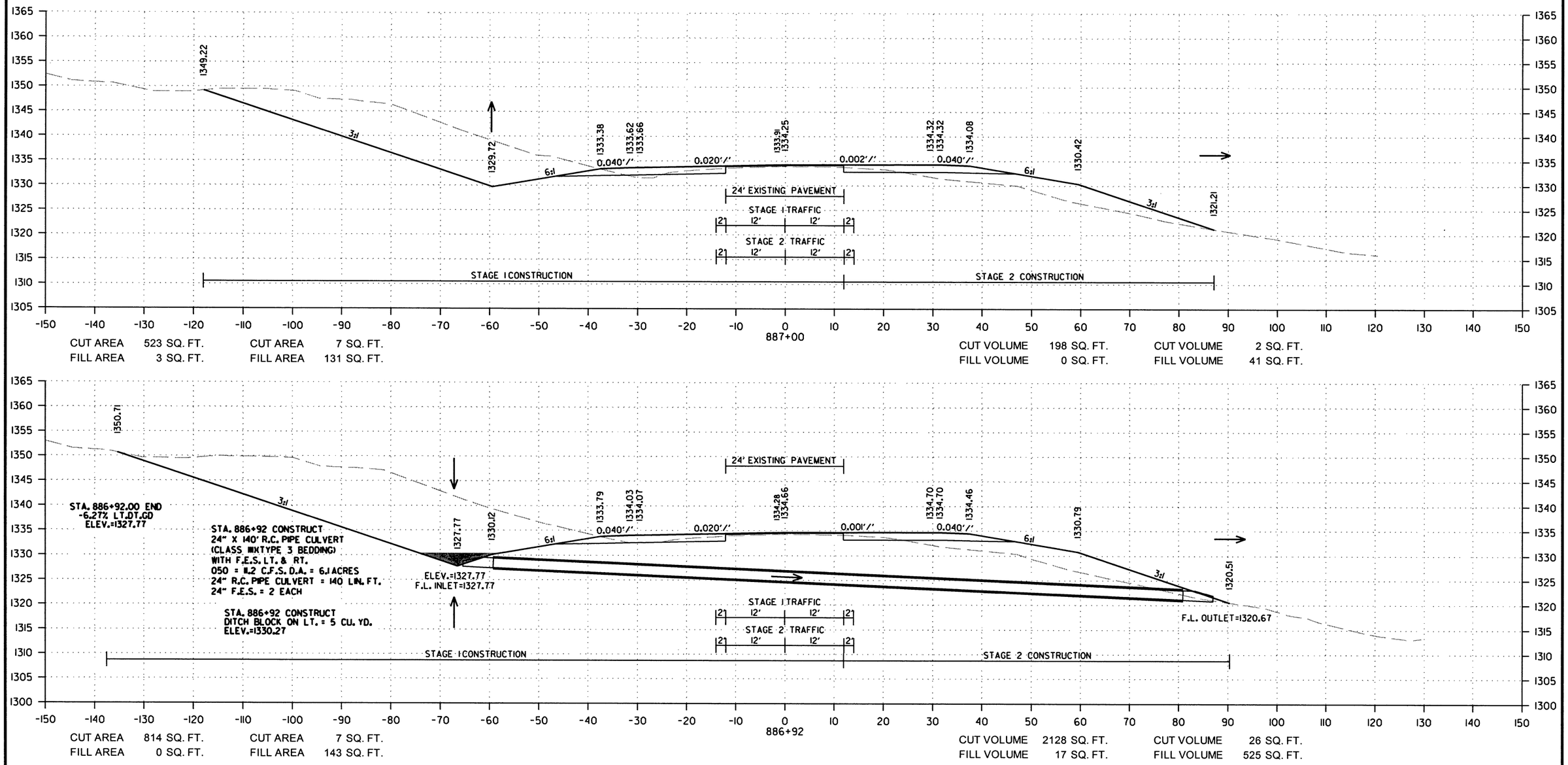
HWY. 65
CROSS SECTION STA. 885+00 TO STA. 886+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	554	605

(2) CROSS SECTIONS



11/13/2018

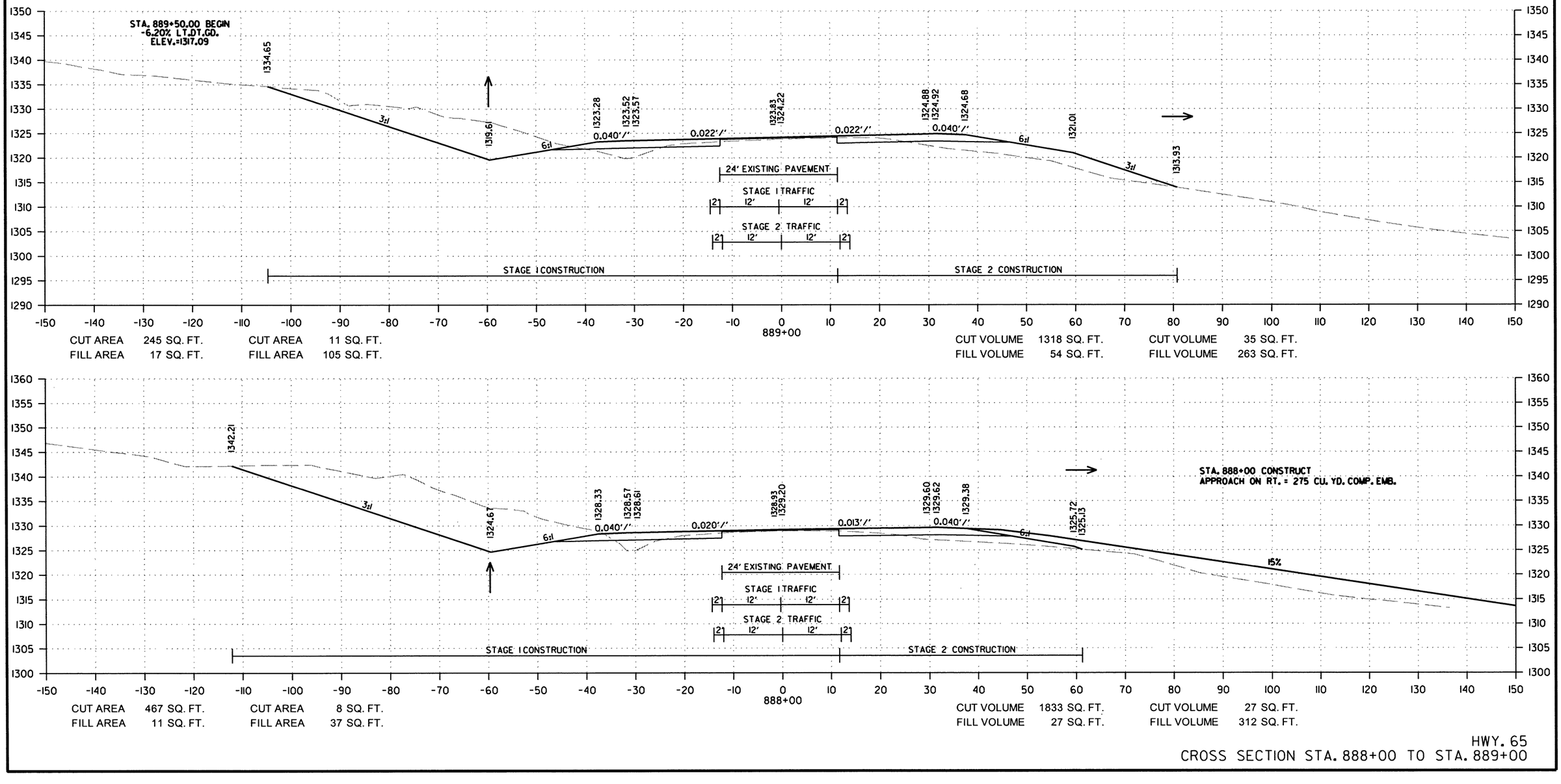
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 886+92 TO STA. 887+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	555	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



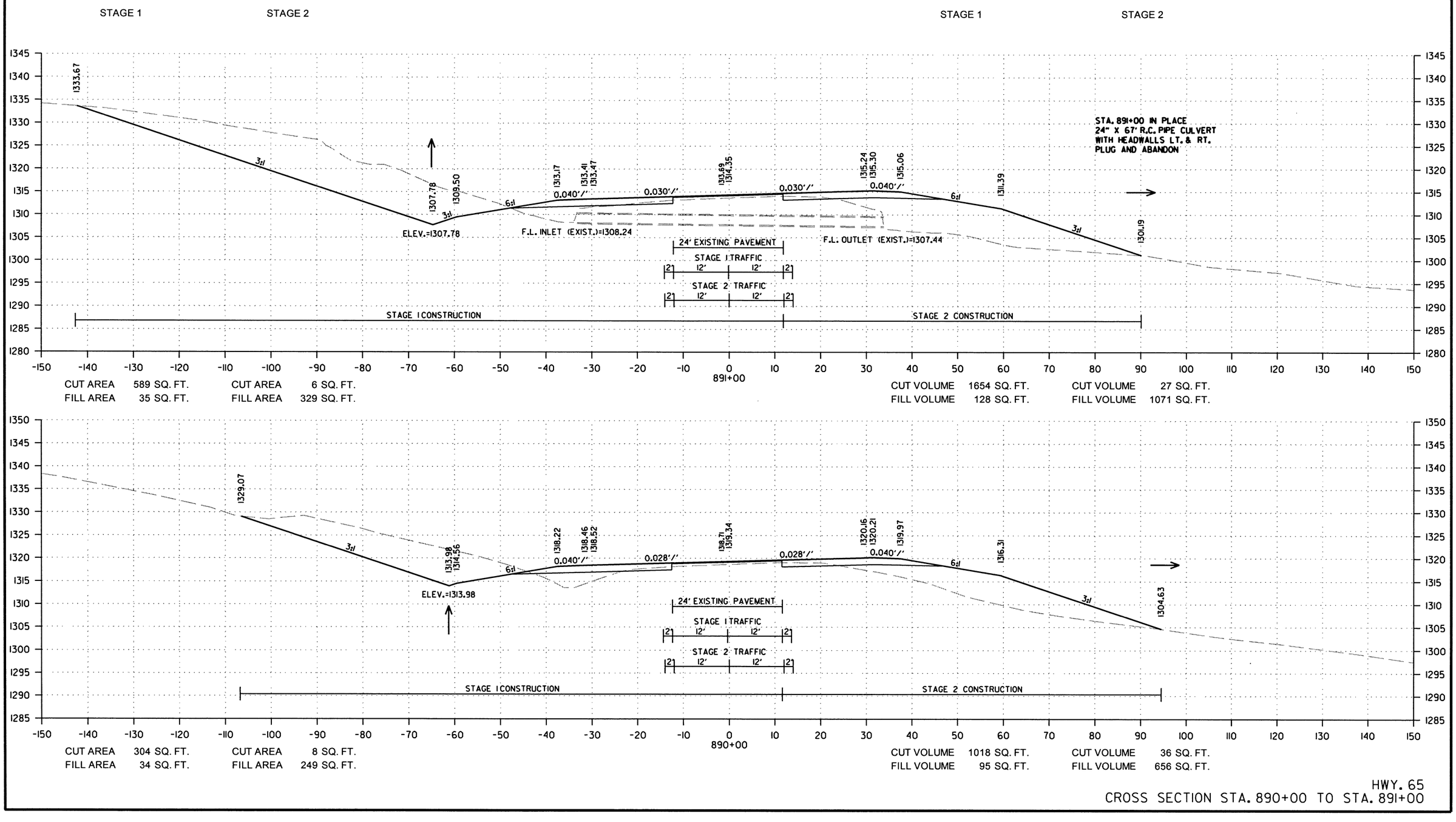
HWY. 65
CROSS SECTION STA. 888+00 TO STA. 889+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	556	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 890+00 TO STA. 891+00

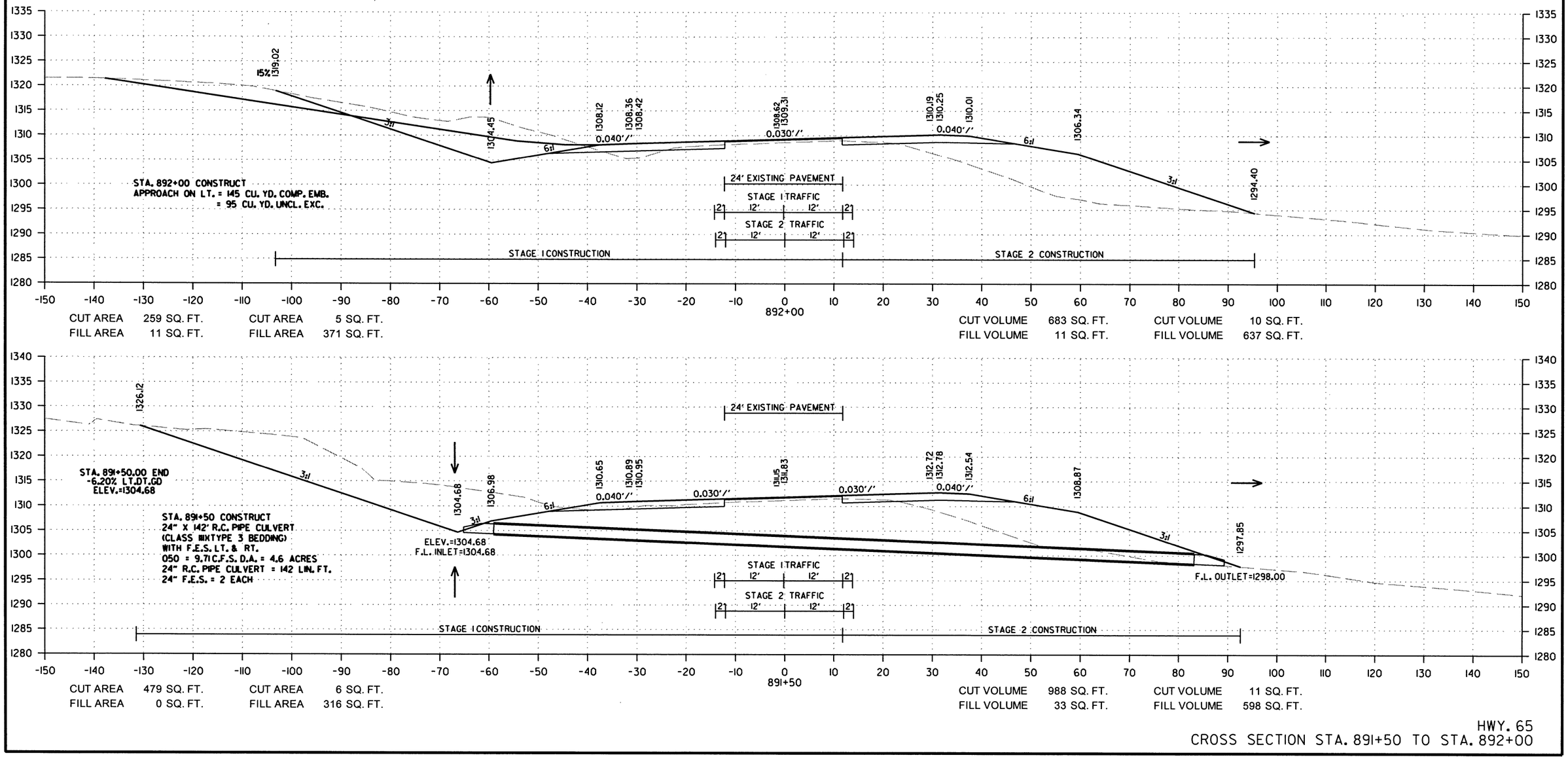
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	557	605

(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



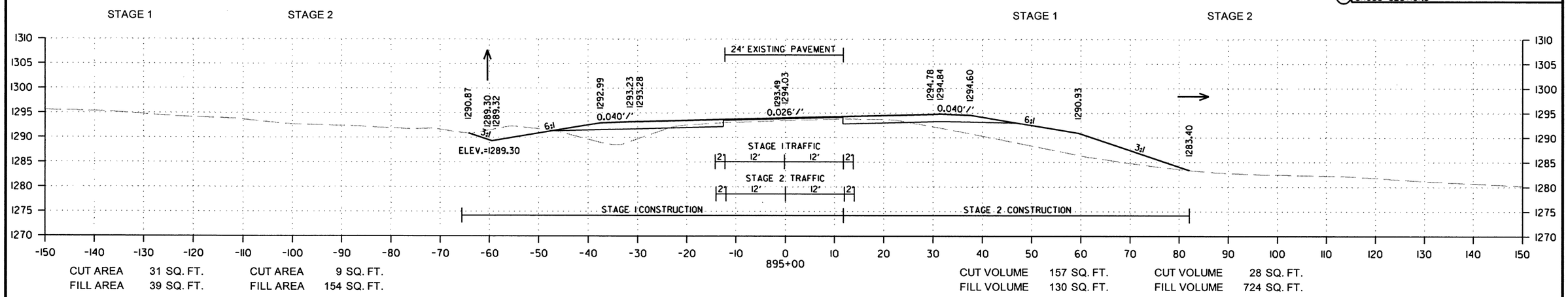
11/13/2018

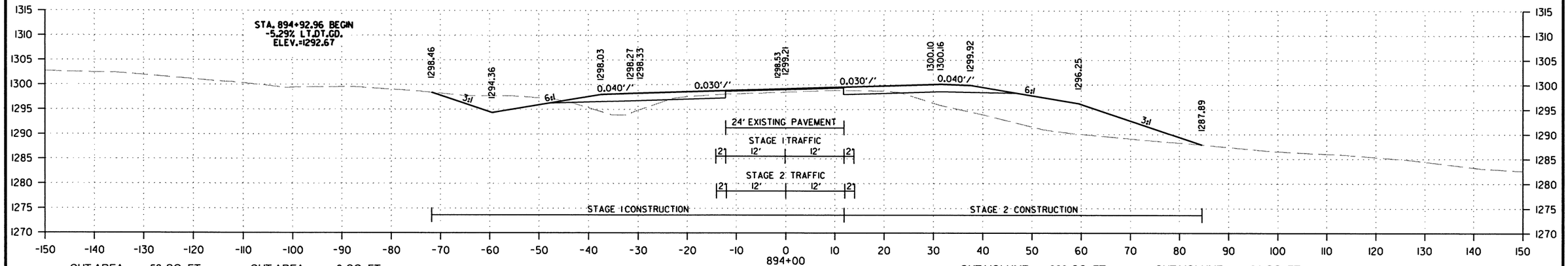
RCA0801.DGN

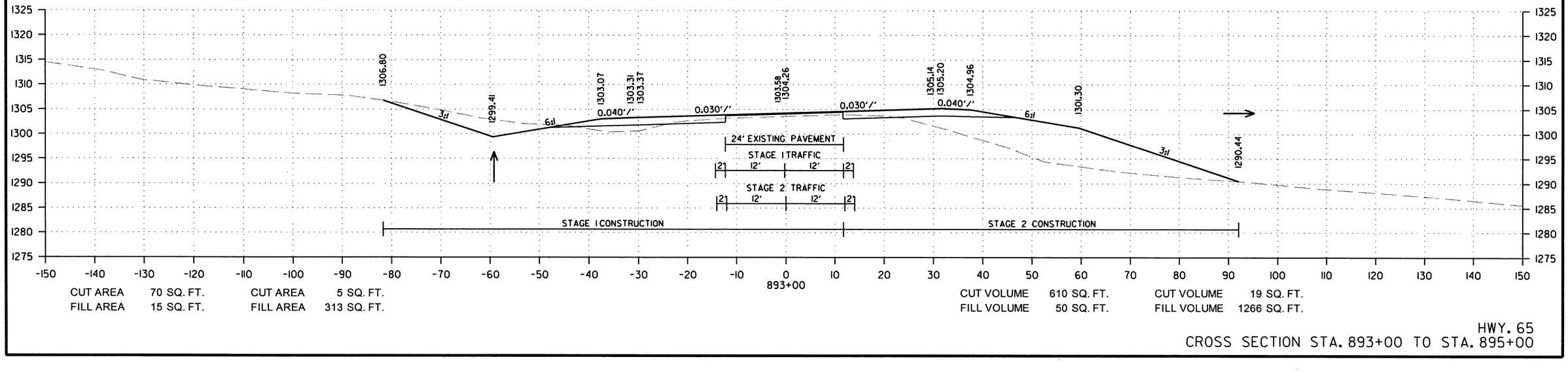
HWY. 65
CROSS SECTION STA. 891+50 TO STA. 892+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	558	605

(2) CROSS SECTIONS







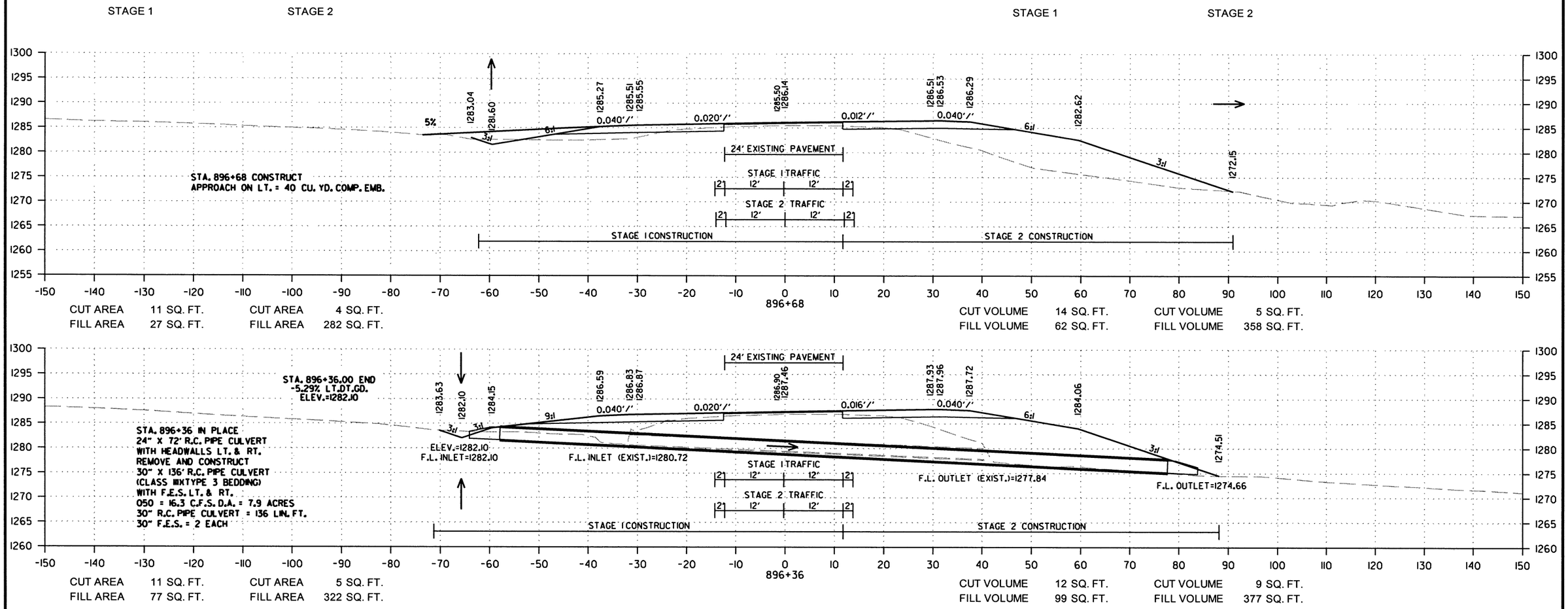
HWY. 65
CROSS SECTION STA. 893+00 TO STA. 895+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	559	605

(2) CROSS SECTIONS



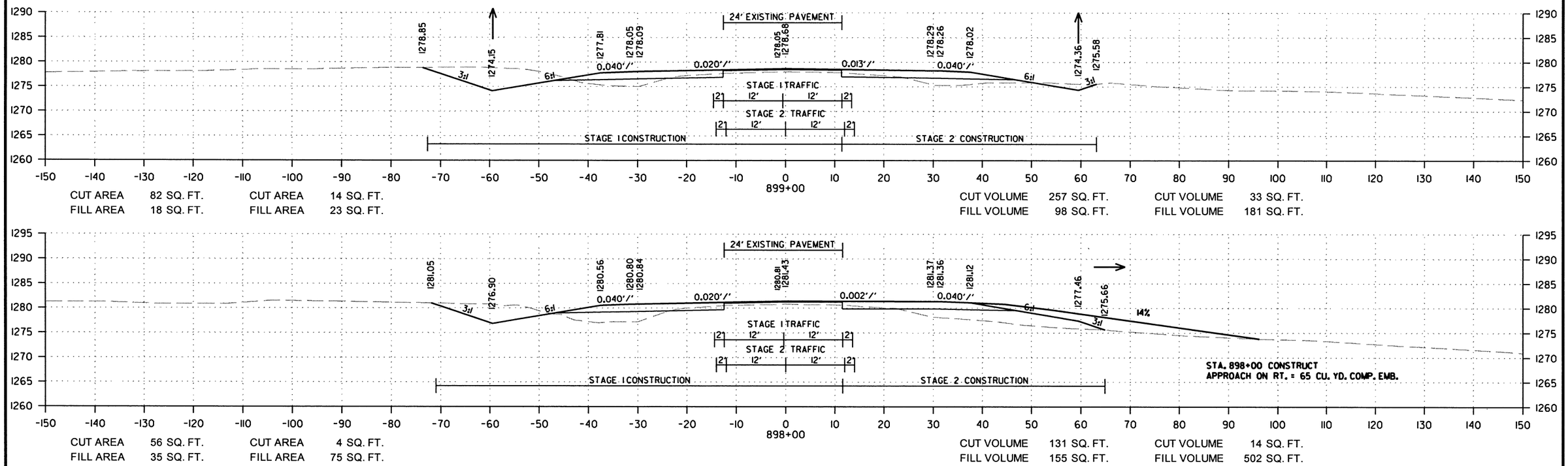
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 896+00 TO STA. 896+68

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	560	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 897+00 TO STA. 899+00

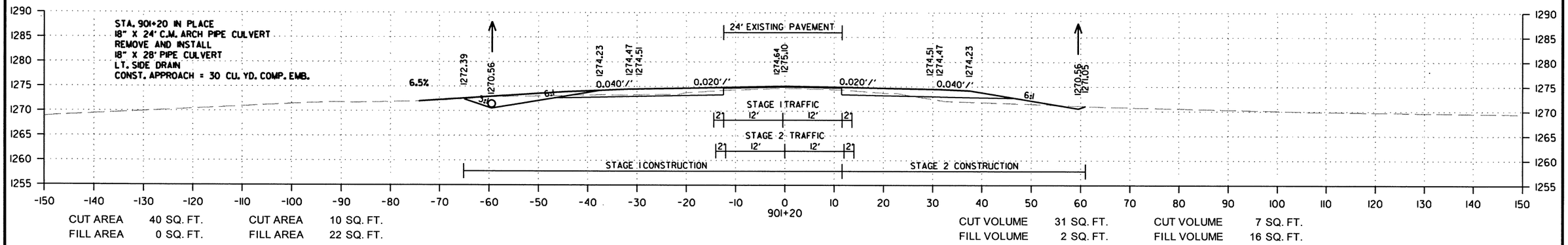
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	561	605

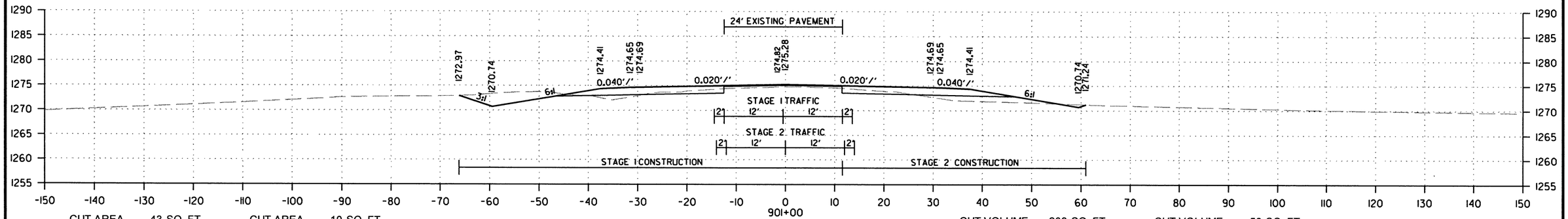
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



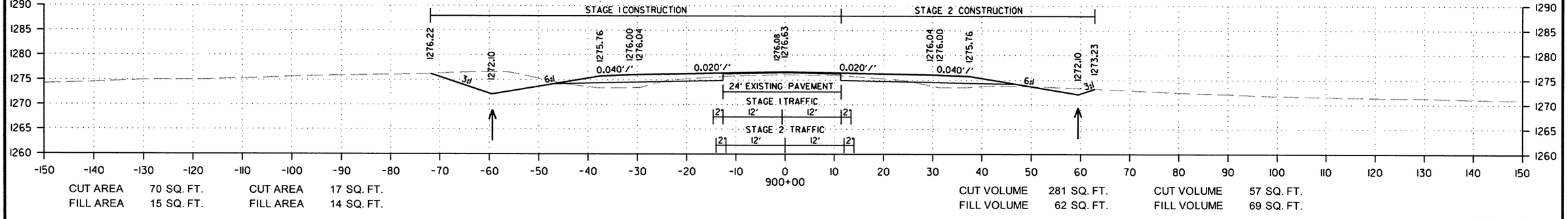
CUT AREA 40 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 22 SQ. FT.

CUT VOLUME 31 SQ. FT. CUT VOLUME 7 SQ. FT.
FILL VOLUME 2 SQ. FT. FILL VOLUME 16 SQ. FT.



CUT AREA 43 SQ. FT. CUT AREA 10 SQ. FT.
FILL AREA 5 SQ. FT. FILL AREA 23 SQ. FT.

CUT VOLUME 208 SQ. FT. CUT VOLUME 50 SQ. FT.
FILL VOLUME 38 SQ. FT. FILL VOLUME 69 SQ. FT.



CUT AREA 70 SQ. FT. CUT AREA 17 SQ. FT.
FILL AREA 15 SQ. FT. FILL AREA 14 SQ. FT.

CUT VOLUME 281 SQ. FT. CUT VOLUME 57 SQ. FT.
FILL VOLUME 62 SQ. FT. FILL VOLUME 69 SQ. FT.

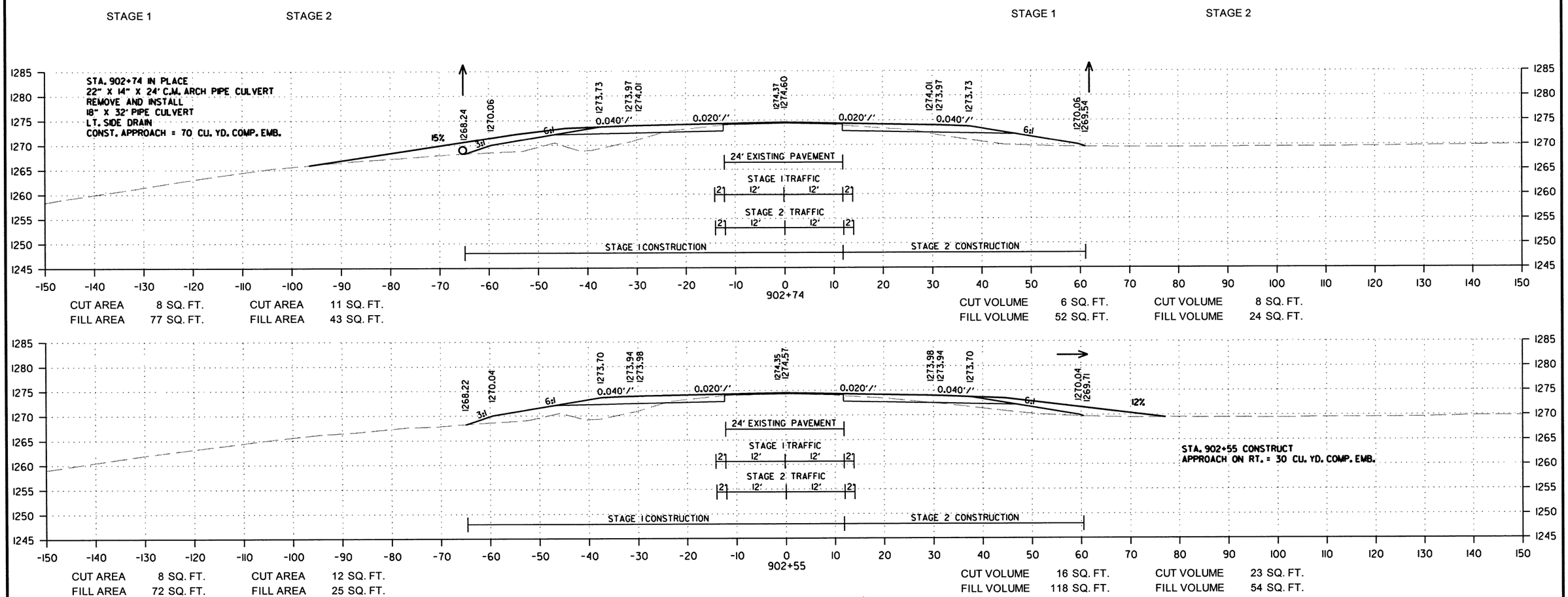
HWY. 65
CROSS SECTION STA. 900+00 TO STA. 901+20

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	562	605

(2) CROSS SECTIONS



HWY. 65
CROSS SECTION STA. 902+00 TO STA. 902+74

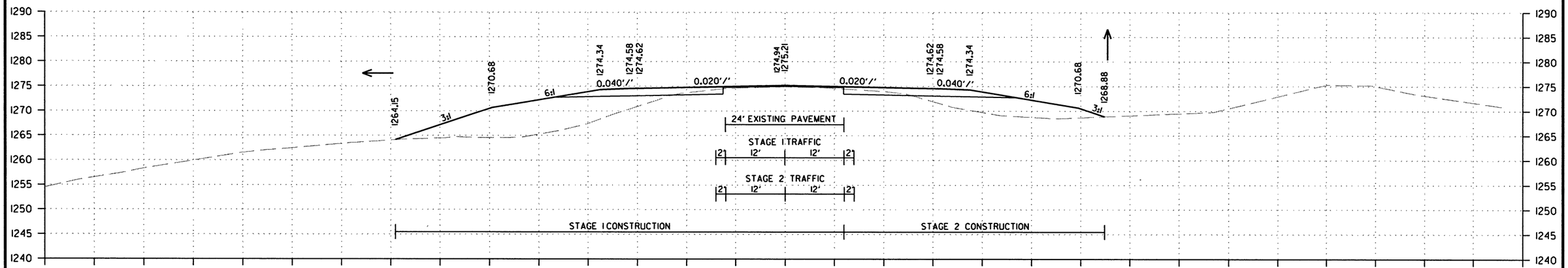
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	563	605

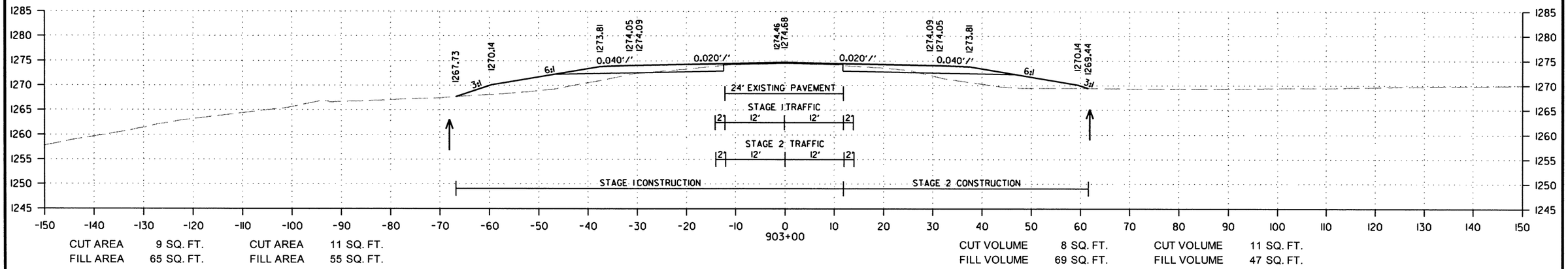
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA	6 SQ. FT.	CUT AREA	9 SQ. FT.
FILL AREA	231 SQ. FT.	FILL AREA	94 SQ. FT.

CUT VOLUME	28 SQ. FT.	CUT VOLUME	38 SQ. FT.
FILL VOLUME	549 SQ. FT.	FILL VOLUME	277 SQ. FT.



CUT AREA	9 SQ. FT.	CUT AREA	11 SQ. FT.
FILL AREA	65 SQ. FT.	FILL AREA	55 SQ. FT.

CUT VOLUME	8 SQ. FT.	CUT VOLUME	11 SQ. FT.
FILL VOLUME	69 SQ. FT.	FILL VOLUME	47 SQ. FT.

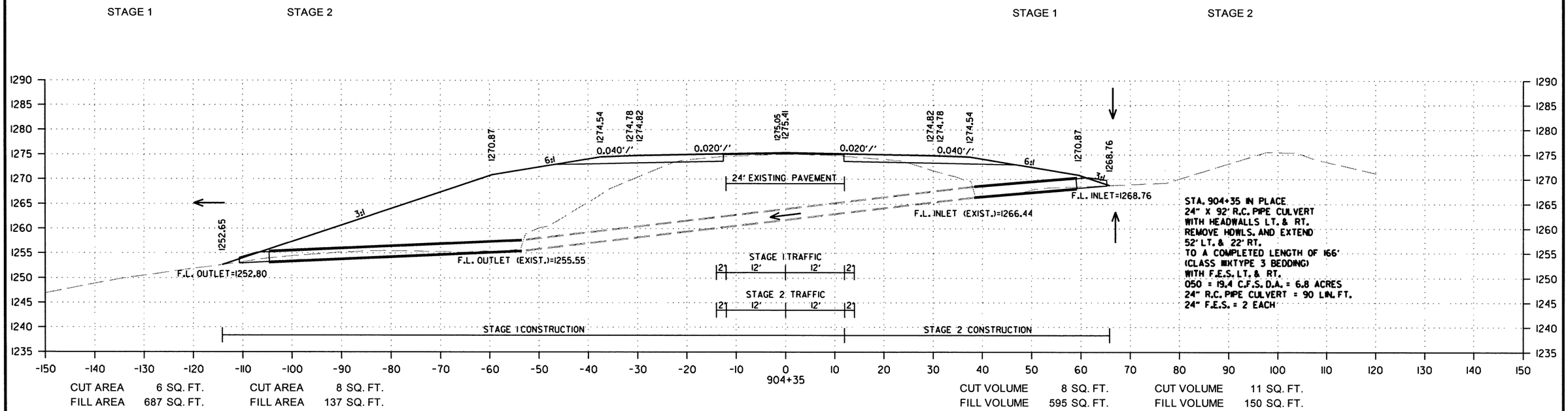
HWY. 65
CROSS SECTION STA. 903+00 TO STA. 904+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	564	605

(2) CROSS SECTIONS



CUT AREA 6 SQ. FT. CUT AREA 8 SQ. FT.
FILL AREA 687 SQ. FT. FILL AREA 137 SQ. FT.

CUT VOLUME 8 SQ. FT. CUT VOLUME 11 SQ. FT.
FILL VOLUME 595 SQ. FT. FILL VOLUME 150 SQ. FT.

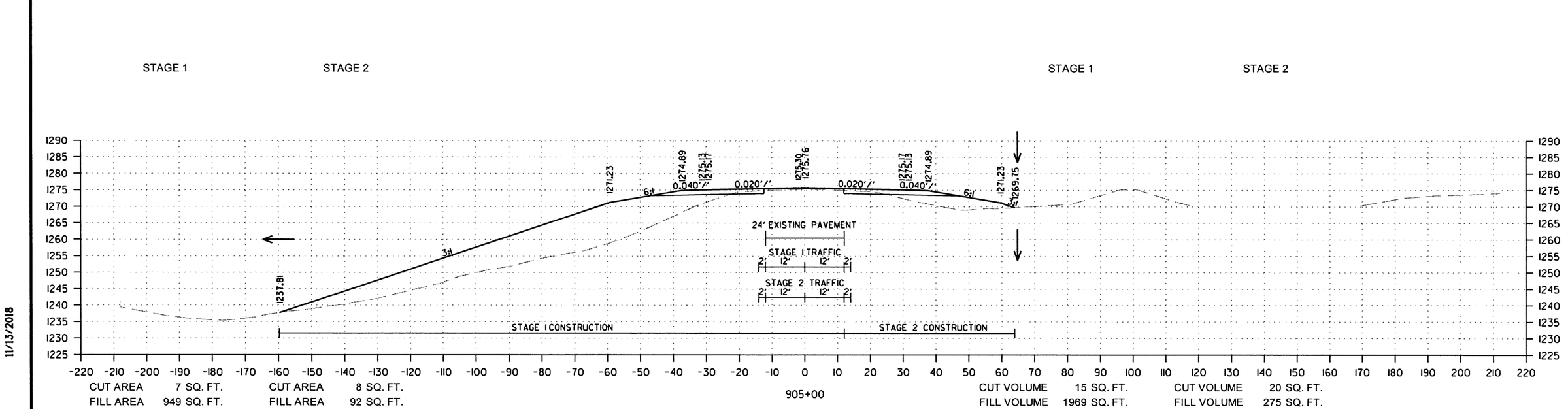
HWY. 65
CROSS SECTION STA. 904+35 TO STA. 904+35

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	565	605

(2) CROSS SECTIONS



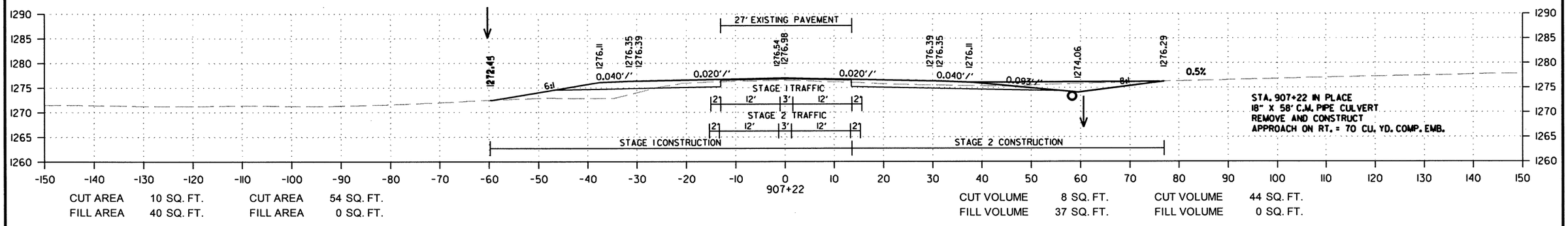
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 905+00 TO STA. 905+00

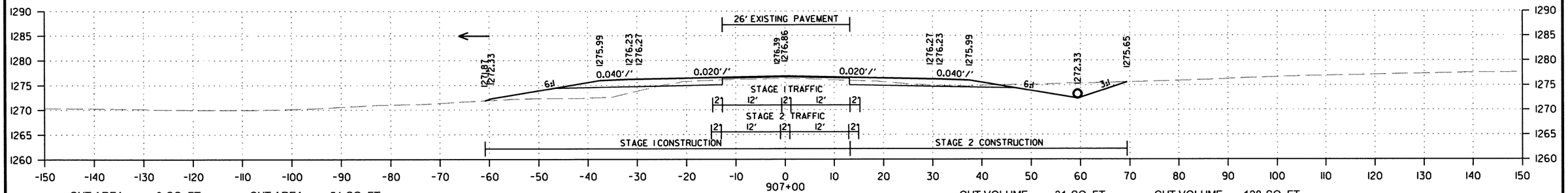
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	566	605

(2) CROSS SECTIONS



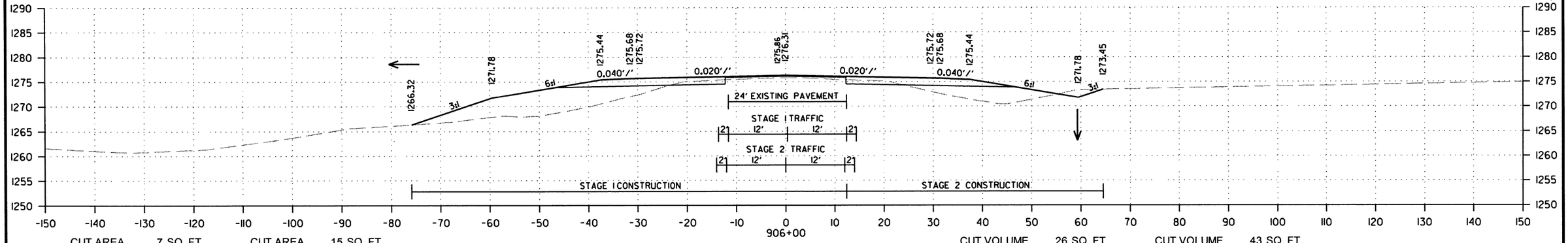
CUT AREA 10 SQ. FT. CUT AREA 54 SQ. FT.
FILL AREA 40 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 8 SQ. FT. CUT VOLUME 44 SQ. FT.
FILL VOLUME 37 SQ. FT. FILL VOLUME 0 SQ. FT.



CUT AREA 9 SQ. FT. CUT AREA 54 SQ. FT.
FILL AREA 50 SQ. FT. FILL AREA 0 SQ. FT.

CUT VOLUME 31 SQ. FT. CUT VOLUME 128 SQ. FT.
FILL VOLUME 390 SQ. FT. FILL VOLUME 114 SQ. FT.



CUT AREA 7 SQ. FT. CUT AREA 15 SQ. FT.
FILL AREA 161 SQ. FT. FILL AREA 62 SQ. FT.

CUT VOLUME 26 SQ. FT. CUT VOLUME 43 SQ. FT.
FILL VOLUME 2056 SQ. FT. FILL VOLUME 284 SQ. FT.

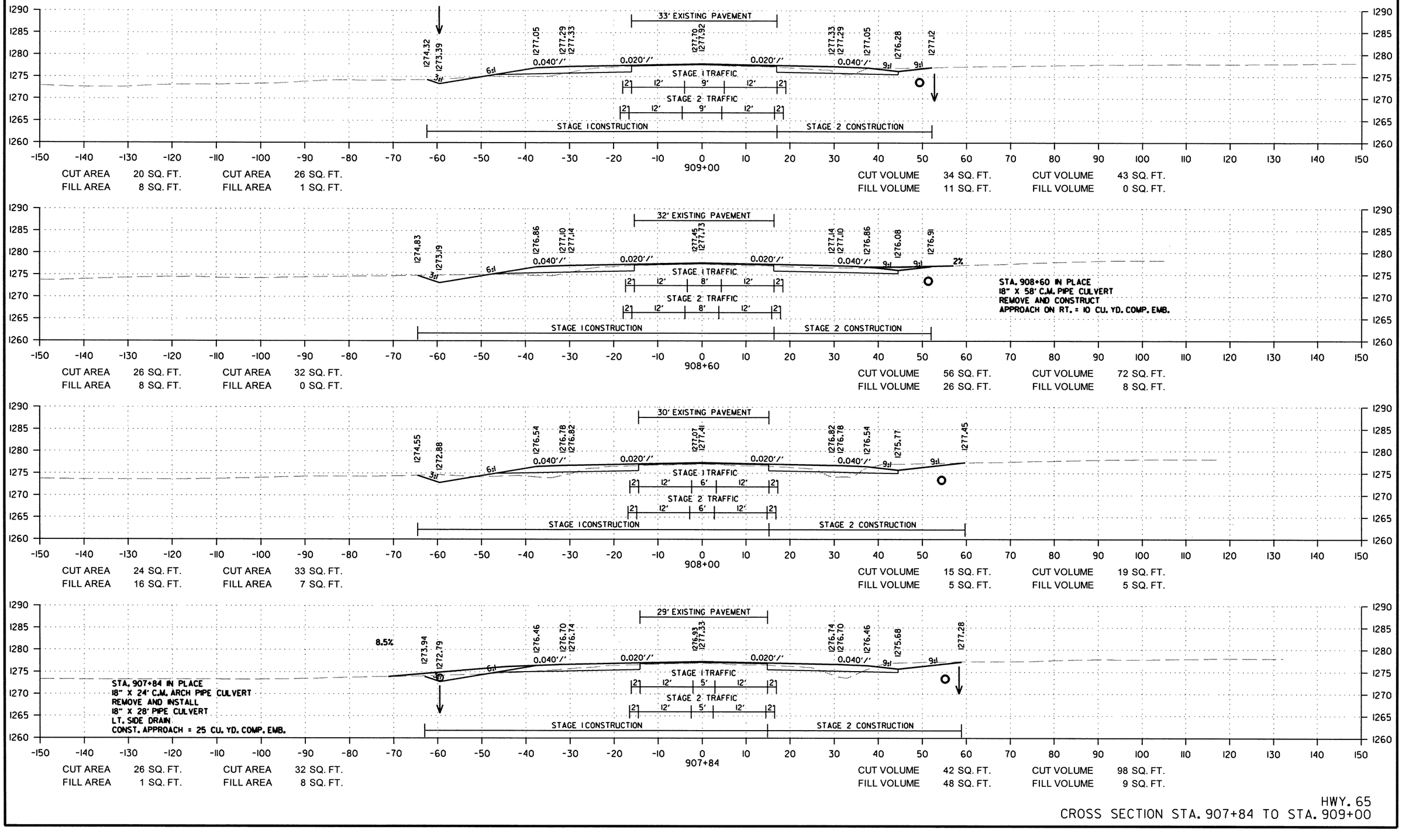
HWY. 65
CROSS SECTION STA. 906+00 TO STA. 907+22

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	567	605

(2) CROSS SECTIONS



11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 907+84 TO STA. 909+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	568	605

(2) CROSS SECTIONS

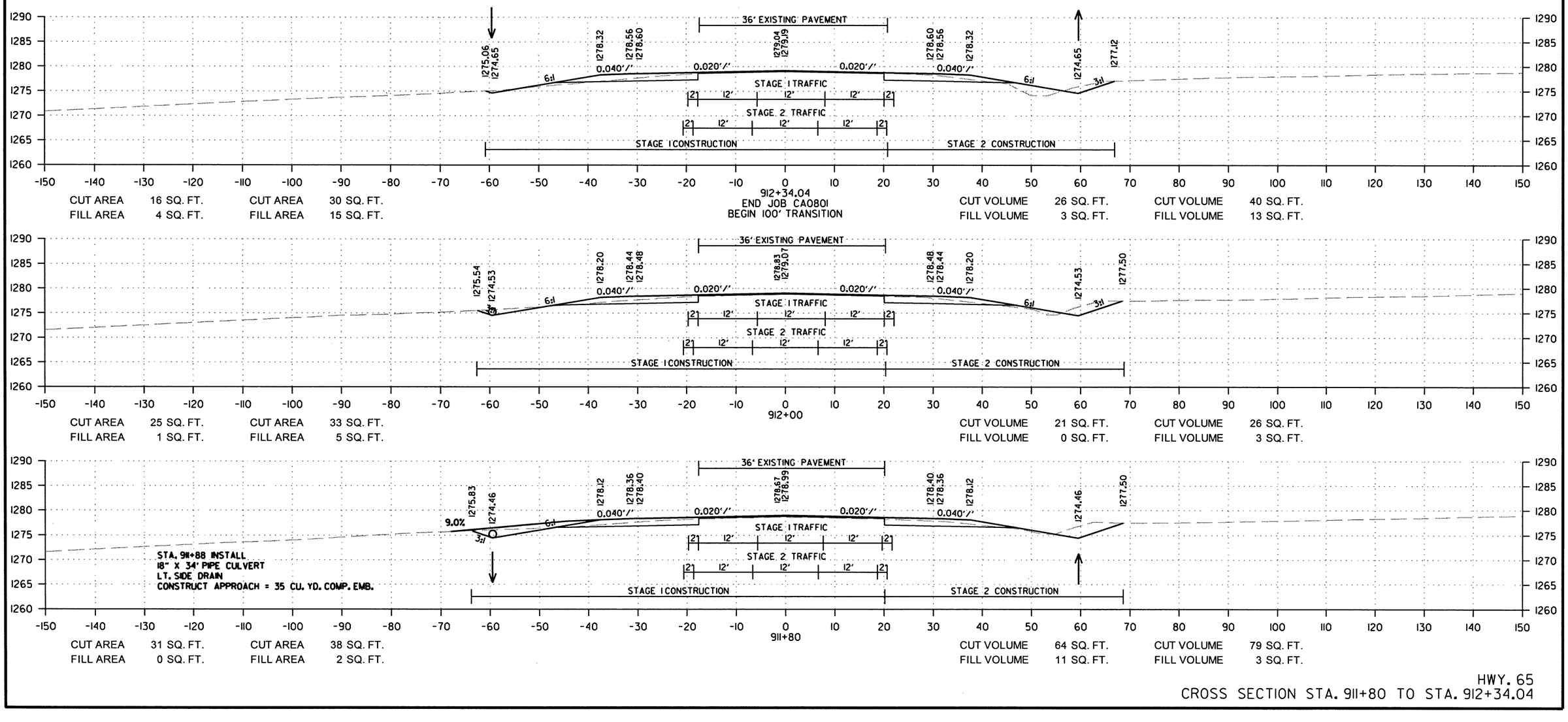
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 909+50 TO STA. 911+10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	569	605

(2) CROSS SECTIONS



11/13/2018

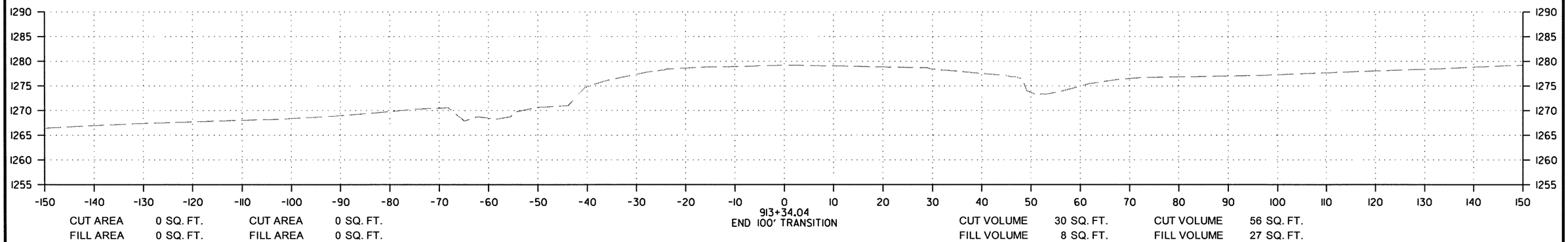
RCA0801.DGN

HWY. 65
CROSS SECTION STA. 911+80 TO STA. 912+34.04

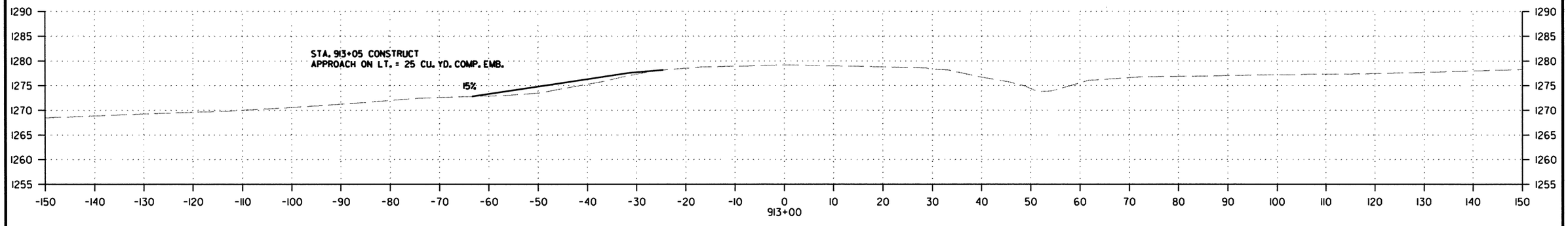
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	570	605

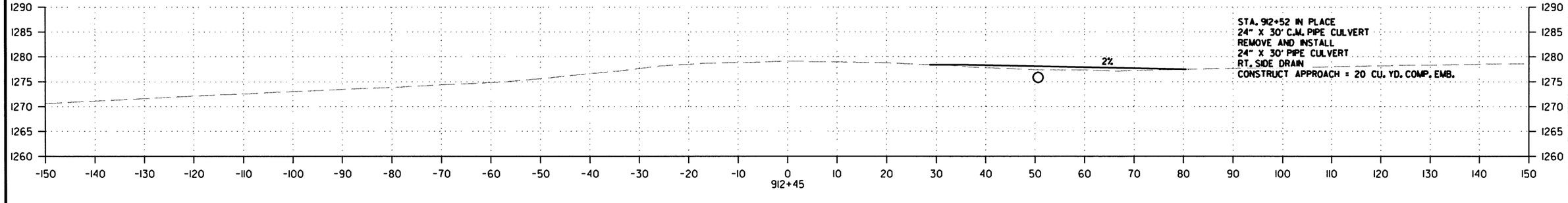
(2) CROSS SECTIONS

STAGE 1 STAGE 2 STAGE 1 STAGE 2



CUT AREA 0 SQ. FT. CUT AREA 0 SQ. FT. CUT VOLUME 30 SQ. FT. CUT VOLUME 56 SQ. FT.
FILL AREA 0 SQ. FT. FILL AREA 0 SQ. FT. FILL VOLUME 8 SQ. FT. FILL VOLUME 27 SQ. FT.





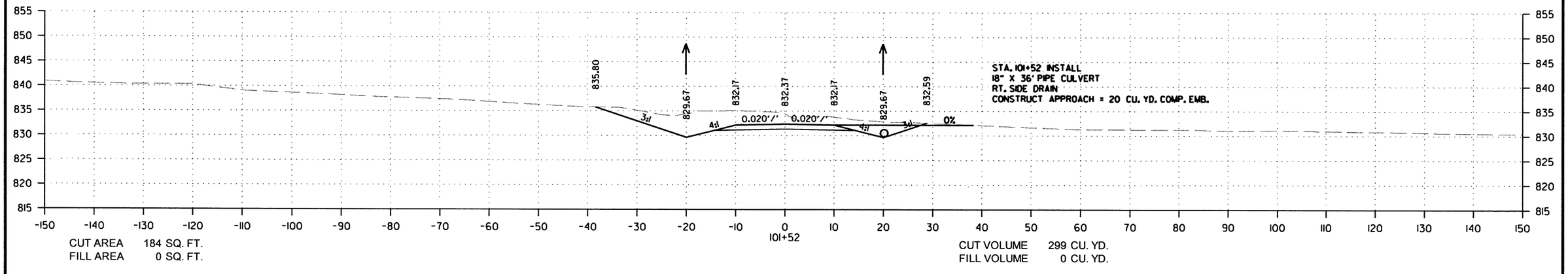
11/13/2018

RCA0801.DGN

HWY. 65
CROSS SECTION STA. 912+45 TO STA. 913+34.04

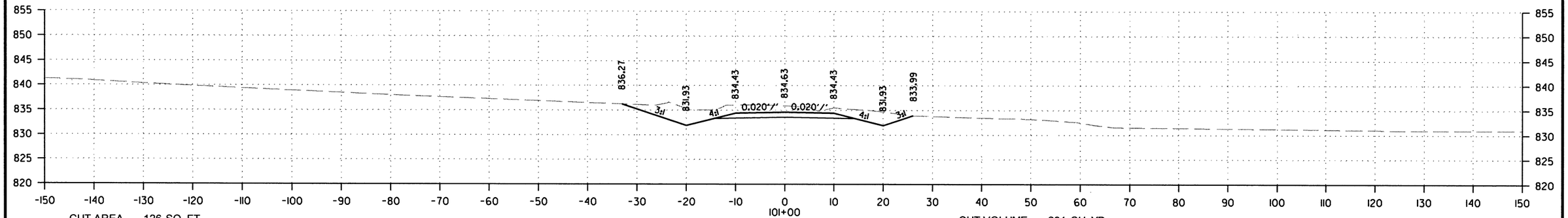
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	571	605

(2) CROSS SECTIONS



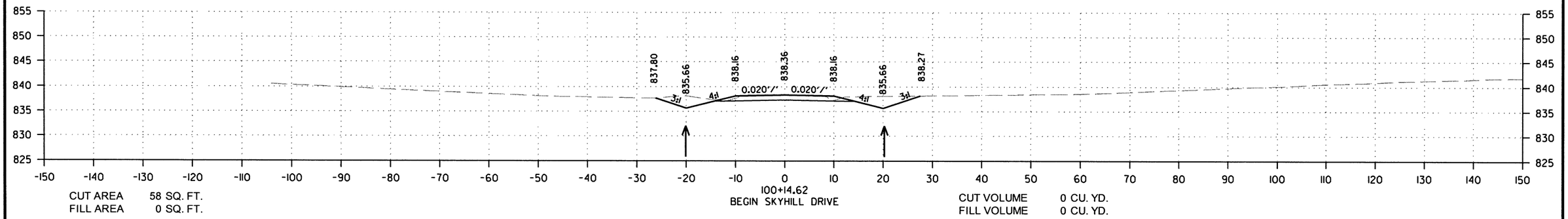
CUT AREA 184 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 299 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 126 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 291 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 58 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

SKYHILL DRIVE
CROSS SECTION STA. 100+140.62 TO STA. 101+52

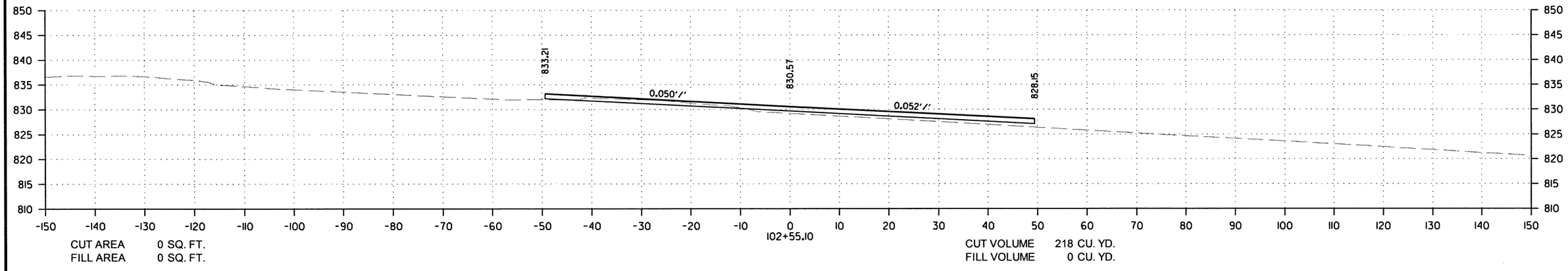
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	572	605

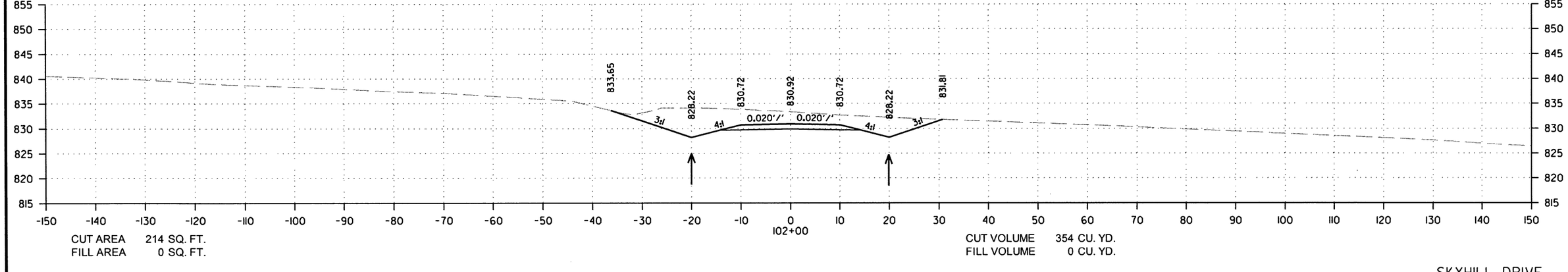
(2) CROSS SECTIONS

STA. 102+84.60 ON SKYHILL DRIVE=
STA. 539+10.00 ON HWY. 167
Δ 90°00'00"



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 218 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 214 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 354 CU. YD.
FILL VOLUME 0 CU. YD.

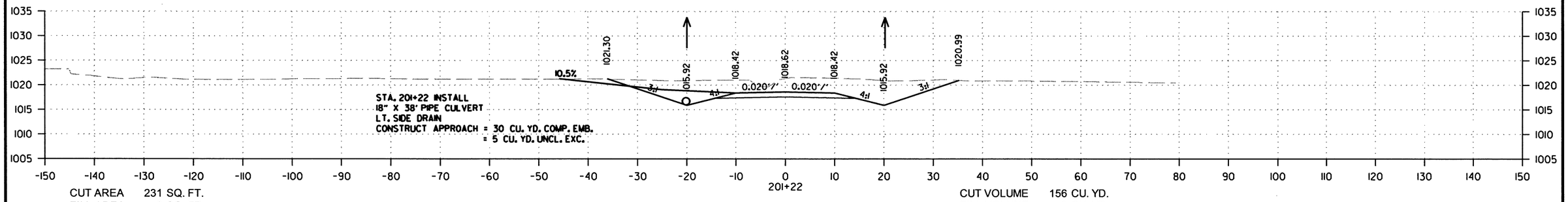
SKYHILL DRIVE
CROSS SECTION STA. 102+00 TO STA. 102+55.10

11/13/2018

RCA0801.DGN

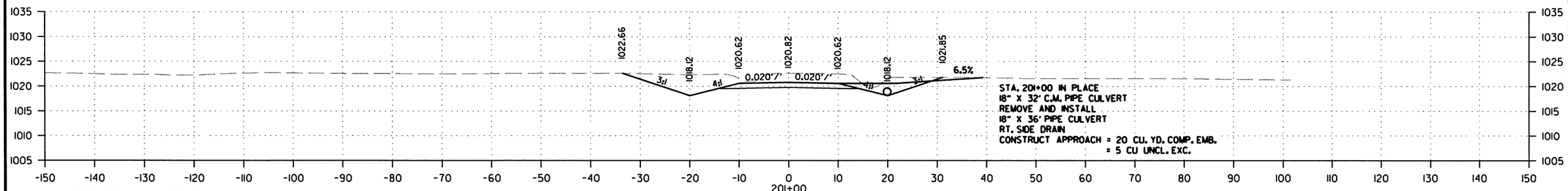
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	573	605

(2) CROSS SECTIONS



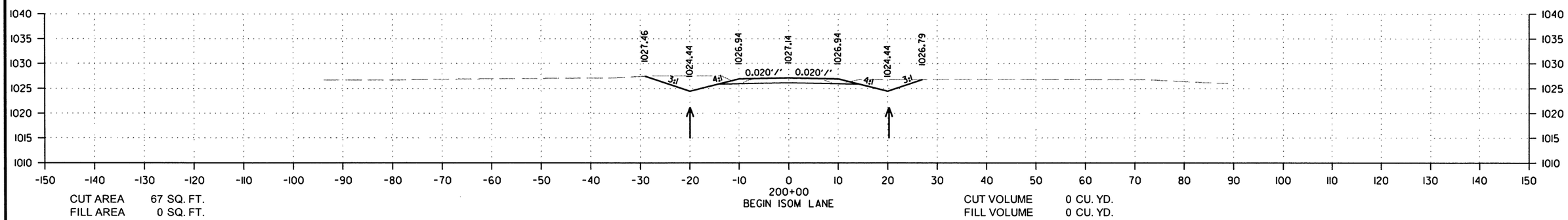
CUT AREA 231 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 156 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 151 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 404 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 67 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

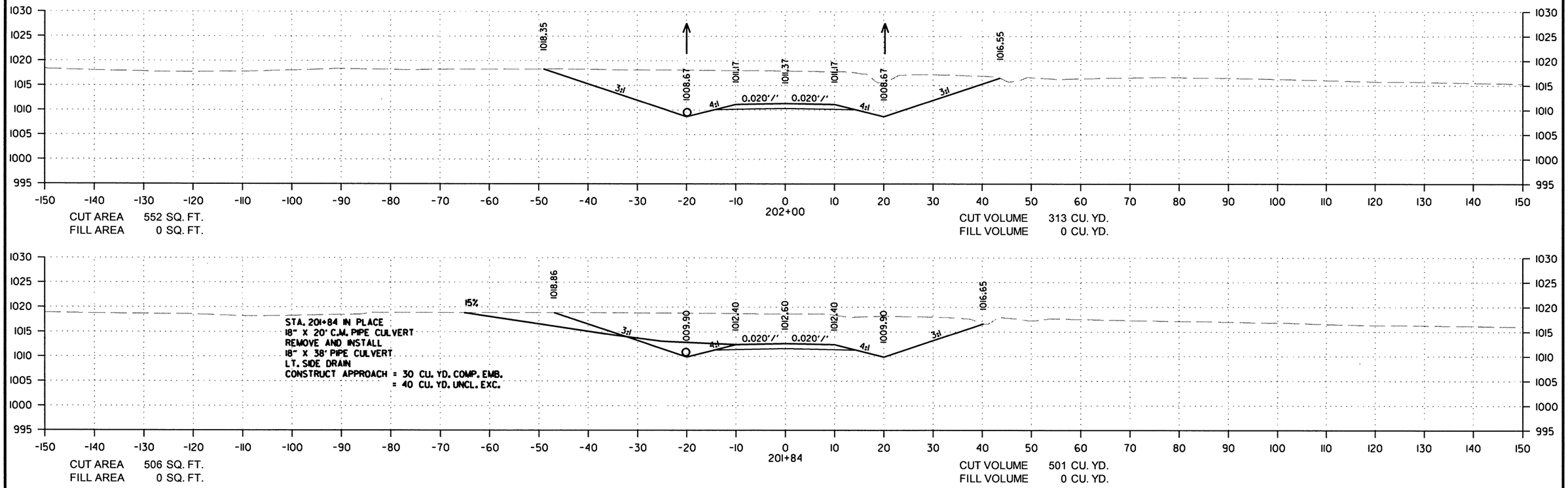
ISOM LANE
CROSS SECTION STA. 200+00 TO STA. 201+22

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	574	605

(2) CROSS SECTIONS



11/13/2018

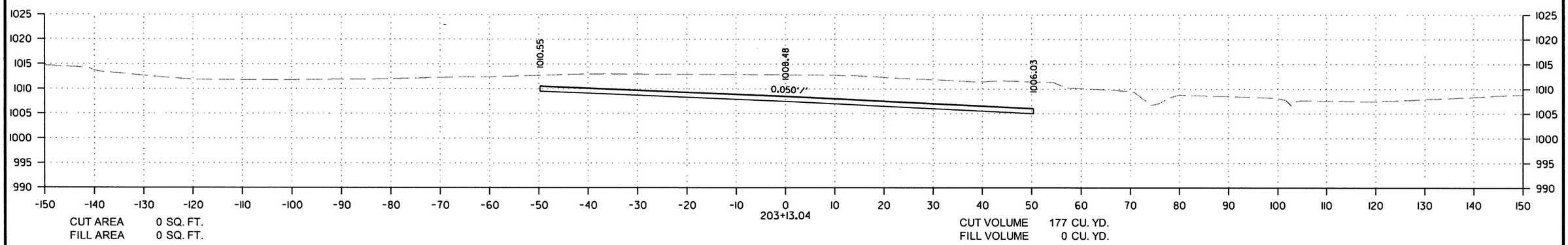
RCA0801.DGN

ISOM LANE
CROSS SECTION STA. 201+53 TO STA. 202+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	575	605

(2) CROSS SECTIONS

STA. 203+42.54 ON ISOM LANE=
STA. 581+25.00 ON HWY. 167
∡ 90°00'00"



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 177 CU. YD.
FILL VOLUME 0 CU. YD.

CUT AREA 733 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 2380 CU. YD.
FILL VOLUME 0 CU. YD.

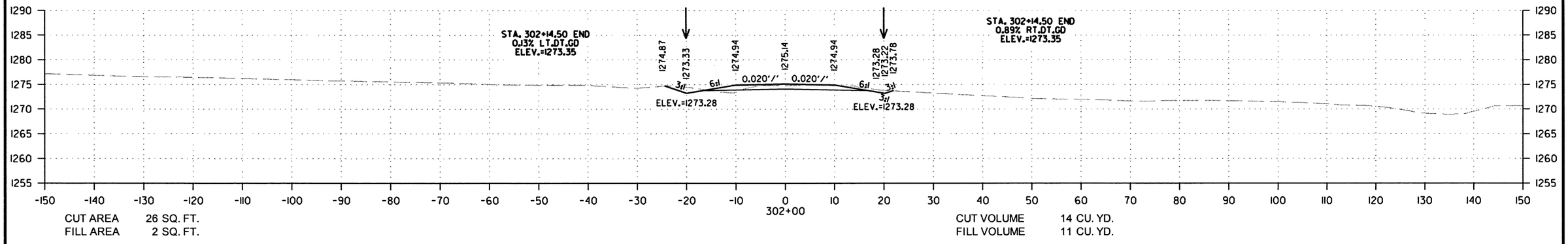
ISOM LANE
CROSS SECTION STA. 203+00 TO STA. 203+13.04

11/13/2018

RCA0801.DGN

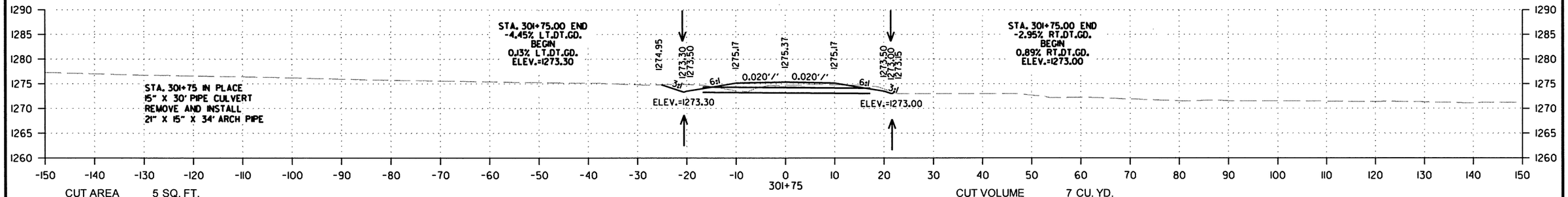
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	576	605

(2) CROSS SECTIONS



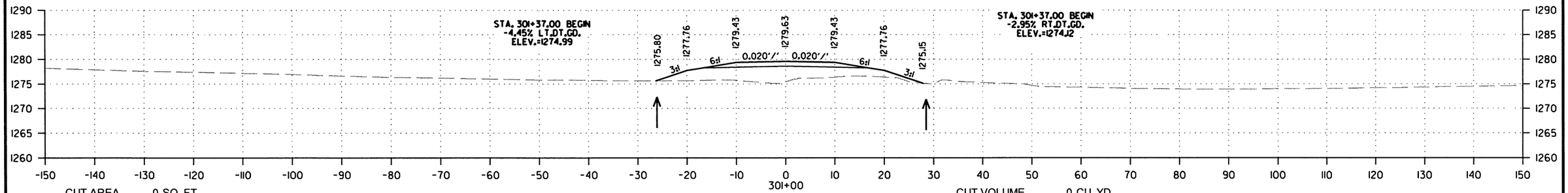
CUT AREA 26 SQ. FT.
FILL AREA 2 SQ. FT.

CUT VOLUME 14 CU. YD.
FILL VOLUME 11 CU. YD.



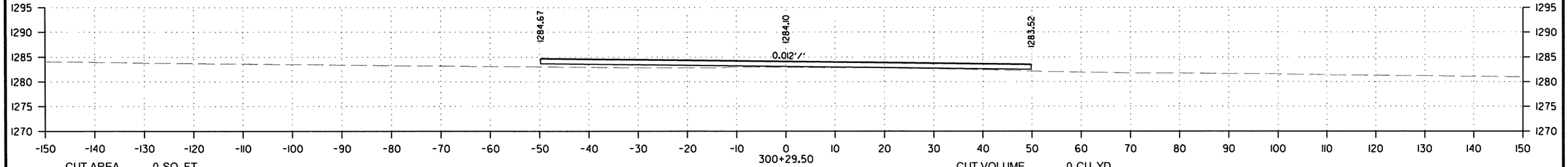
CUT AREA 5 SQ. FT.
FILL AREA 22 SQ. FT.

CUT VOLUME 7 CU. YD.
FILL VOLUME 182 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 109 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 142 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

STA. 300+00.00 ON HENDERSON ROAD=
STA. 649+95.51 ON HWY. 167
∡ 90°00'00"

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

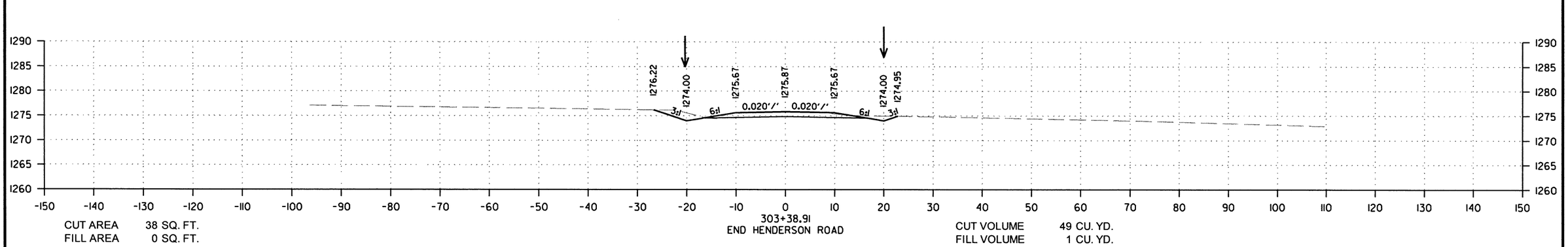
HENDERSON ROAD
CROSS SECTION STA. 300+30 TO STA. 302+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	577	605

(2) CROSS SECTIONS



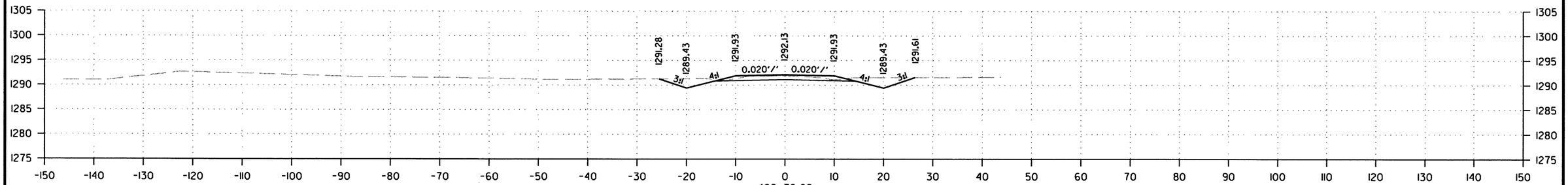
11/13/2018

RCA0801.DGN

HENDERSON ROAD
CROSS SECTION STA. 303+00 TO STA. 303+39

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	578	605

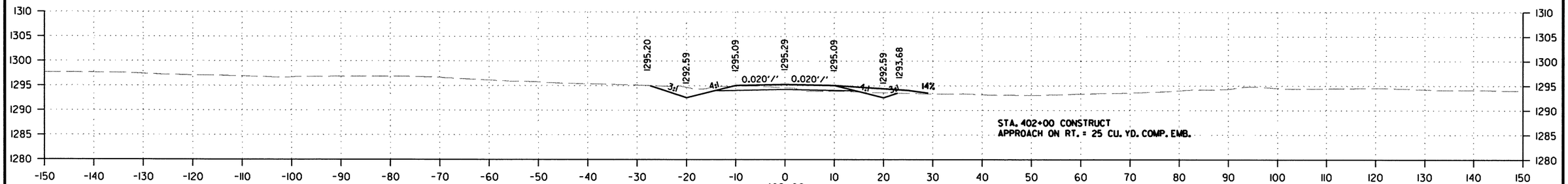
(2) CROSS SECTIONS



CUT AREA 43 SQ. FT.
FILL AREA 0 SQ. FT.

402+76.08
END NATURAL BRIDGE ROAD

CUT VOLUME 101 CU. YD.
FILL VOLUME 4 CU. YD.

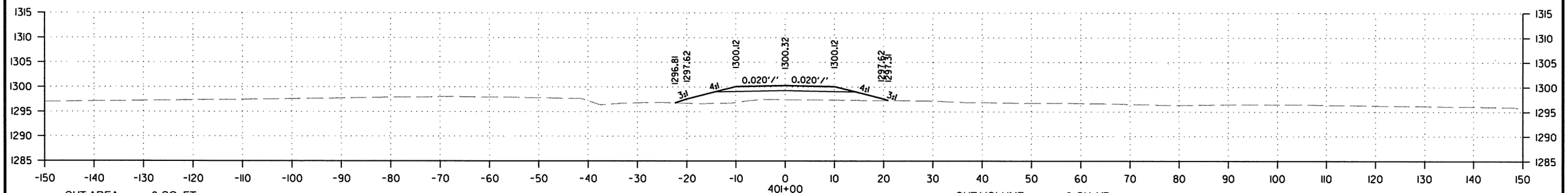


STA. 402+00 CONSTRUCT
APPROACH ON RT. = 25 CU. YD. COMP. EMB.

CUT AREA 29 SQ. FT.
FILL AREA 3 SQ. FT.

402+00

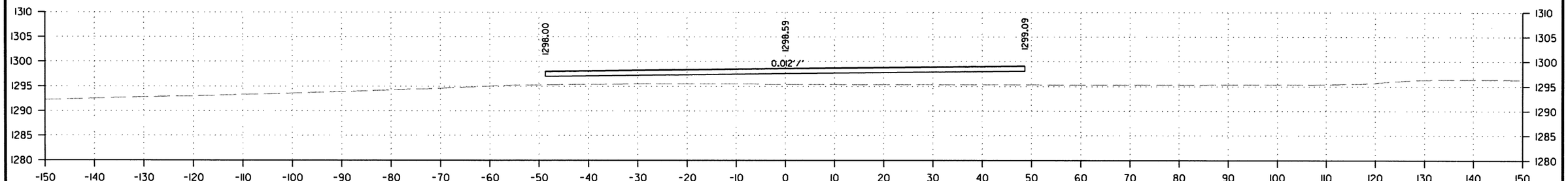
CUT VOLUME 54 CU. YD.
FILL VOLUME 137 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 71 SQ. FT.

401+00

CUT VOLUME 0 CU. YD.
FILL VOLUME 93 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

400+29.50

STA. 400+00.00 ON NATURAL BRIDGE ROAD=
STA. 664+86.36 ON HWY. 167
∠ 90°00'00"

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

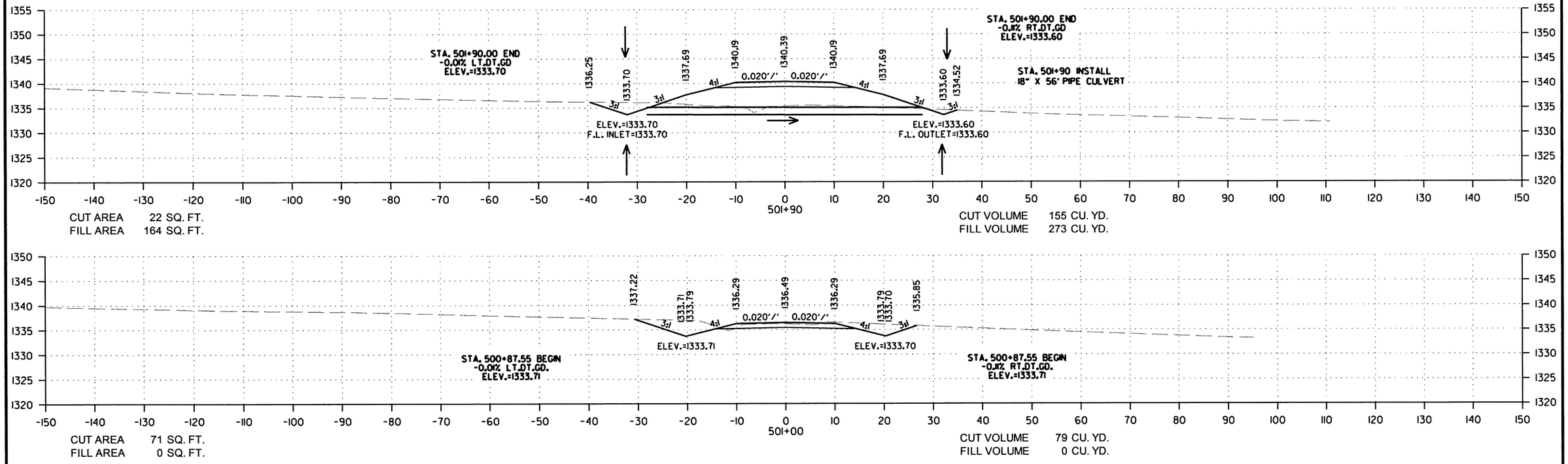
NATURAL BRIDGE ROAD
CROSS SECTION STA. 400+29.50 TO STA. 402+76

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	579	605

(2) CROSS SECTIONS



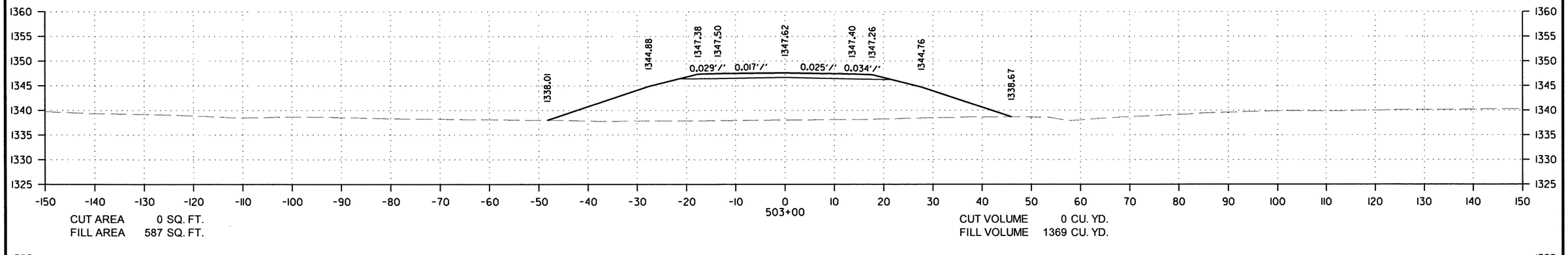
GLENN ROAD
CROSS SECTION STA. 500+71.97 TO STA. 501+90

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	580	605

(2) CROSS SECTIONS

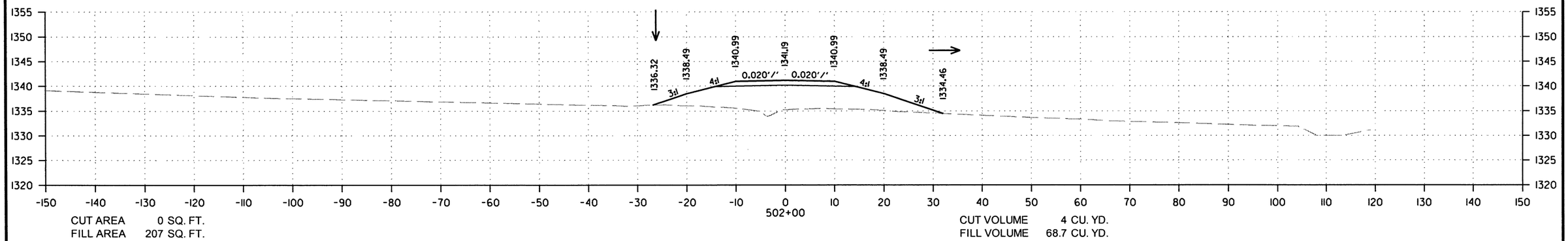


CUT AREA 0 SQ. FT.
FILL AREA 587 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 1369 CU. YD.

CUT AREA 0 SQ. FT.
FILL AREA 283 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 136 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 207 SQ. FT.

CUT VOLUME 4 CU. YD.
FILL VOLUME 68.7 CU. YD.

GLENN ROAD
CROSS SECTION STA. 502+00 TO STA. 503+00

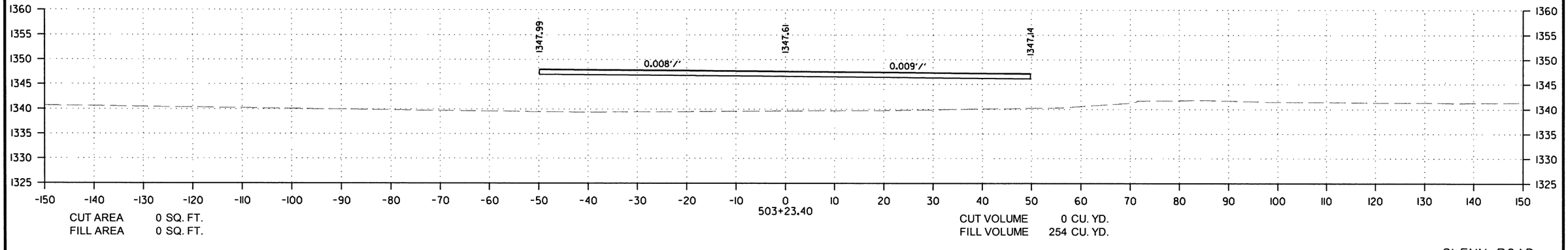
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	581	605

(2) CROSS SECTIONS

STA. 503+52.90 ON GLENN ROAD=
STA. 715+00.00 ON HWY. 167
∡ 90°00'00"



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 254 CU. YD.

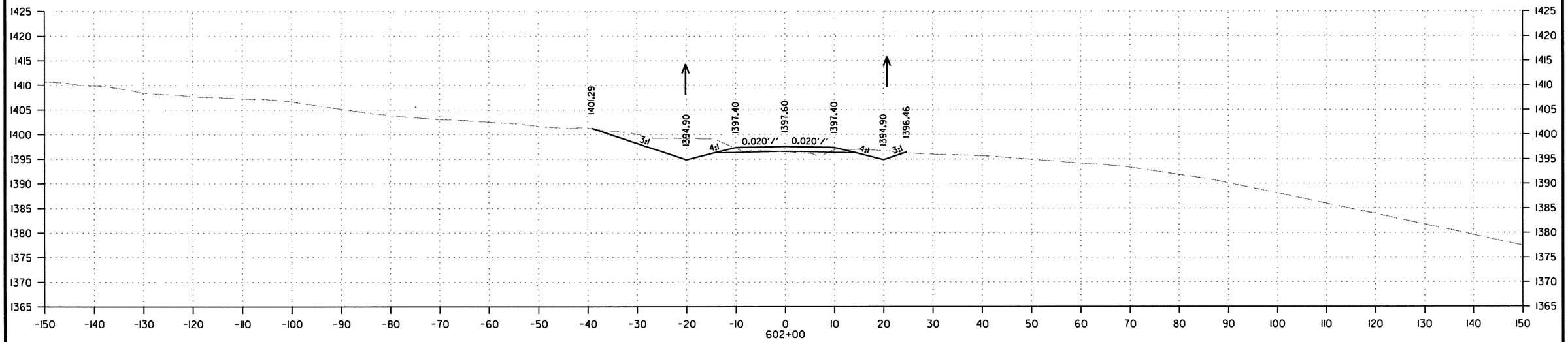
GLENN ROAD
CROSS SECTION STA. 503+23 TO STA. 503+23.40

11/13/2018

RCA0801.DGN

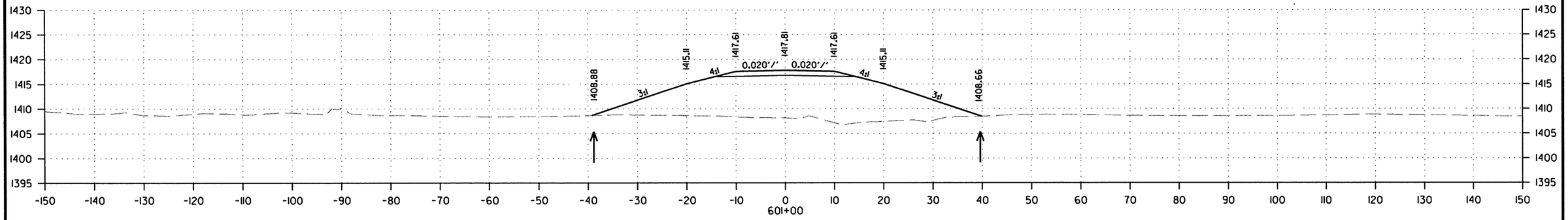
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	582	605

(2) CROSS SECTIONS



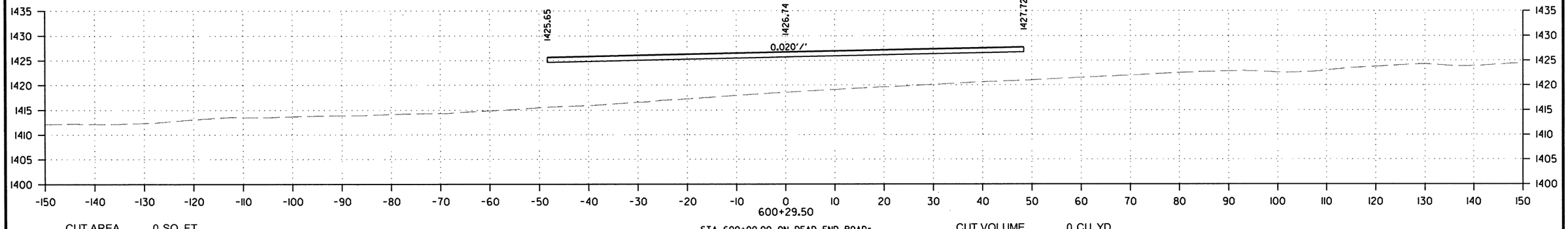
CUT AREA 79 SQ. FT.
FILL AREA 3 SQ. FT.

CUT VOLUME 146 CU. YD.
FILL VOLUME 885 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 475 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 620 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

STA. 600+00.00 ON DEAD END ROAD=
STA. 832+25.00 ON HWY. 167
∡ 90°00'00"

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

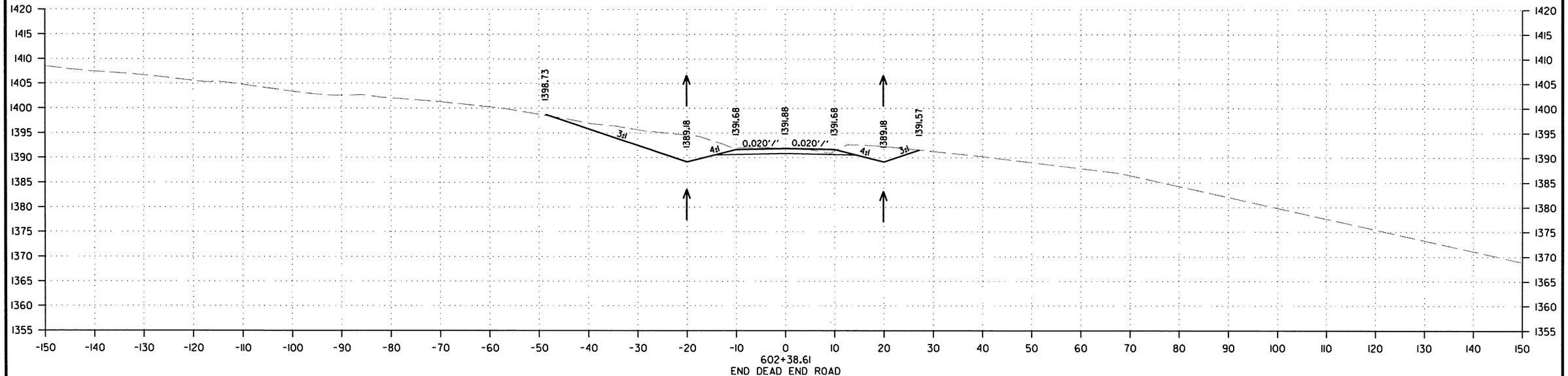
DEAD END ROAD
CROSS SECTION STA. 600+29.50 TO STA. 602+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	583	605

(2) CROSS SECTIONS



CUT AREA 155 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 167 CU. YD.
FILL VOLUME 2 CU. YD.

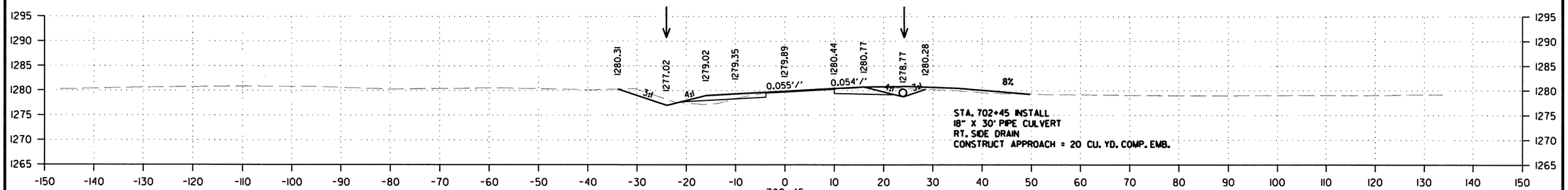
DEAD END ROAD
CROSS SECTION STA. 602+38.61

11/13/2018

RCA0801.DGN

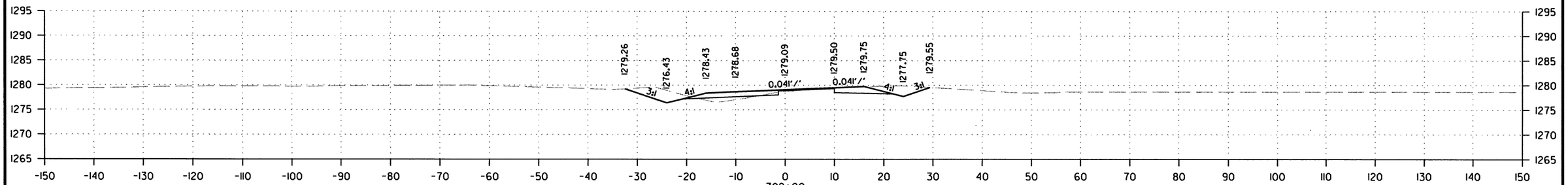
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	584	605

(2) CROSS SECTIONS



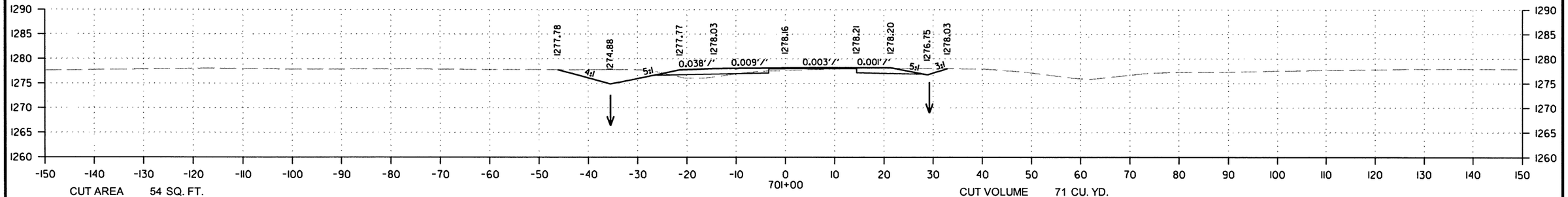
CUT AREA 37 SQ. FT.
FILL AREA 6 SQ. FT.

CUT VOLUME 70 CU. YD.
FILL VOLUME 11 CU. YD.



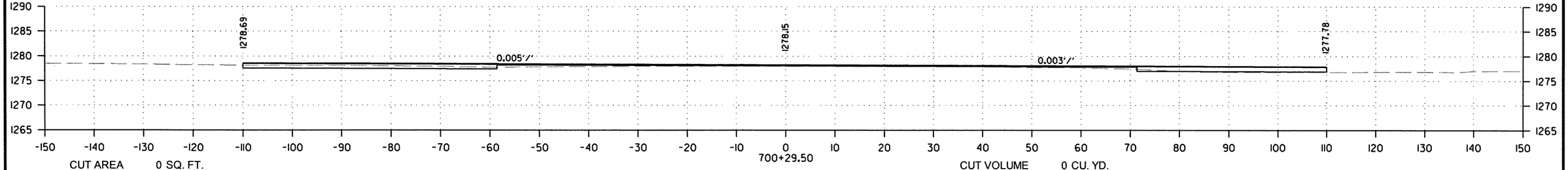
CUT AREA 47 SQ. FT.
FILL AREA 7 SQ. FT.

CUT VOLUME 187 CU. YD.
FILL VOLUME 26 CU. YD.



CUT AREA 54 SQ. FT.
FILL AREA 7 SQ. FT.

CUT VOLUME 71 CU. YD.
FILL VOLUME 9 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 0 SQ. FT.

STA. 700+00.00 ON HWY. 110=
STA. 911+10.00 ON HWY. 167
∠ 90°00'00"

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

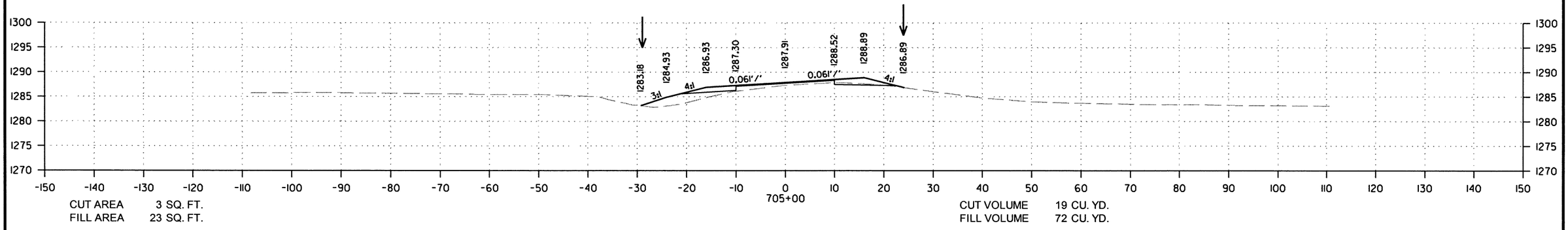
HWY. 110
CROSS SECTION STA. 700+29.50 TO STA. 702+45

11/13/2018

RCA0801.DGN

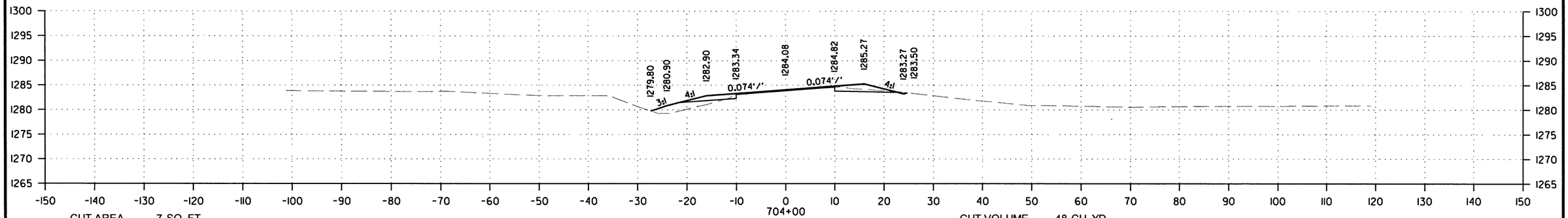
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	585	605

(2) CROSS SECTIONS



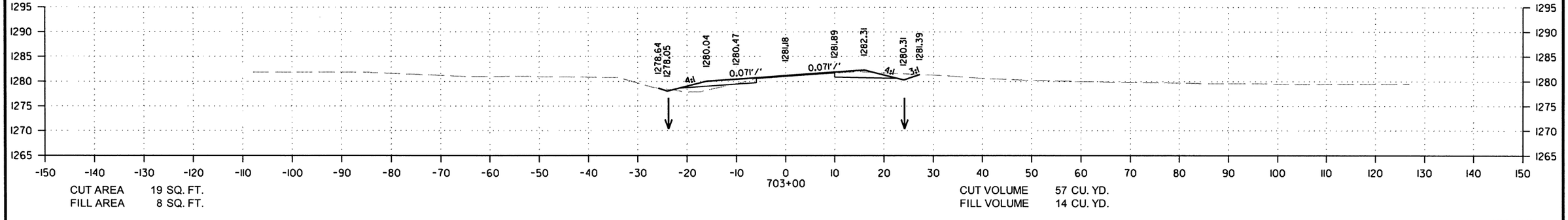
CUT AREA 3 SQ. FT.
FILL AREA 23 SQ. FT.

CUT VOLUME 19 CU. YD.
FILL VOLUME 72 CU. YD.



CUT AREA 7 SQ. FT.
FILL AREA 16 SQ. FT.

CUT VOLUME 48 CU. YD.
FILL VOLUME 44 CU. YD.



CUT AREA 19 SQ. FT.
FILL AREA 8 SQ. FT.

CUT VOLUME 57 CU. YD.
FILL VOLUME 14 CU. YD.

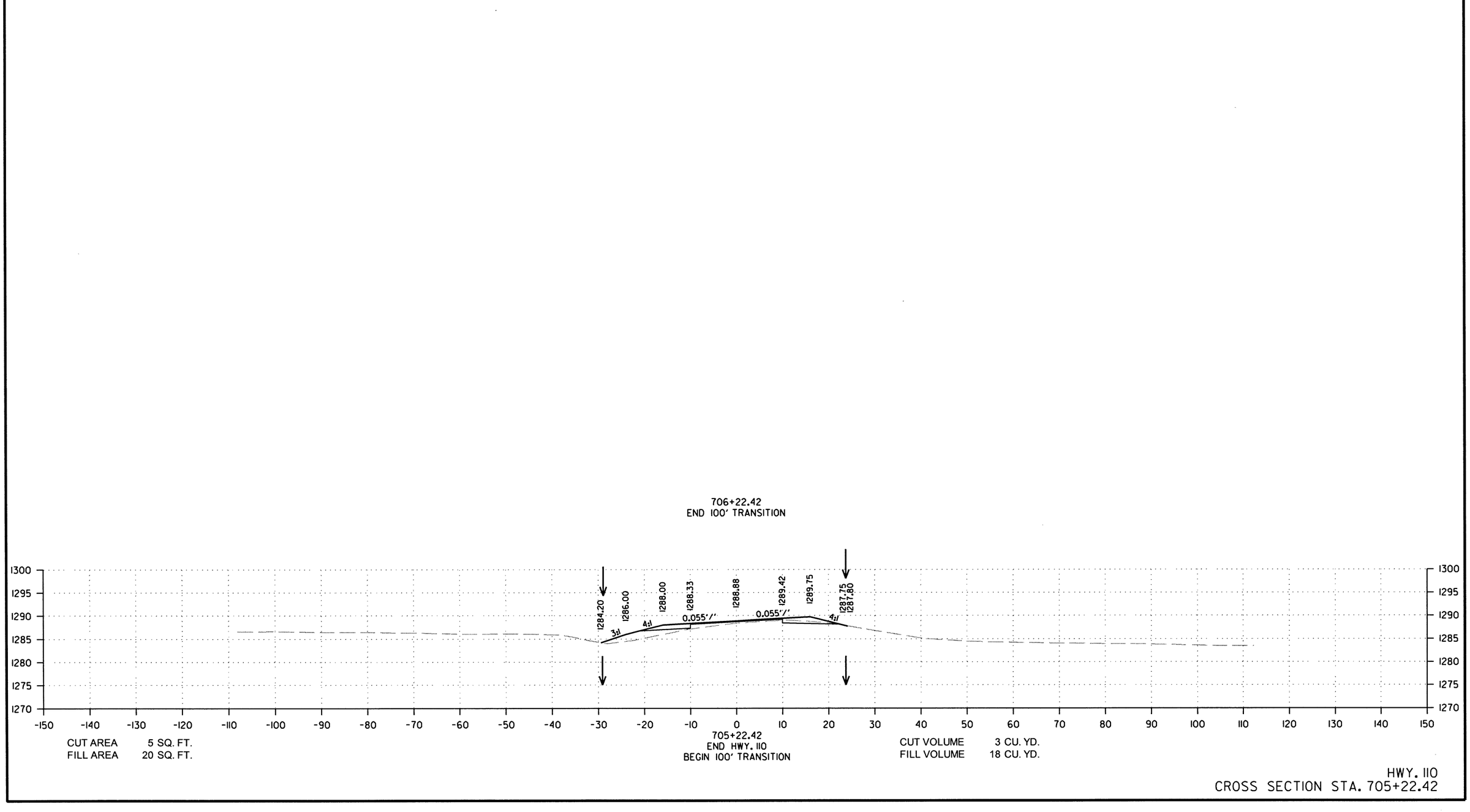
HWY. 110
CROSS SECTION STA. 703+00 TO STA. 705+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	586	605

(2) CROSS SECTIONS



CUT AREA 5 SQ. FT.
FILL AREA 20 SQ. FT.

CUT VOLUME 3 CU. YD.
FILL VOLUME 18 CU. YD.

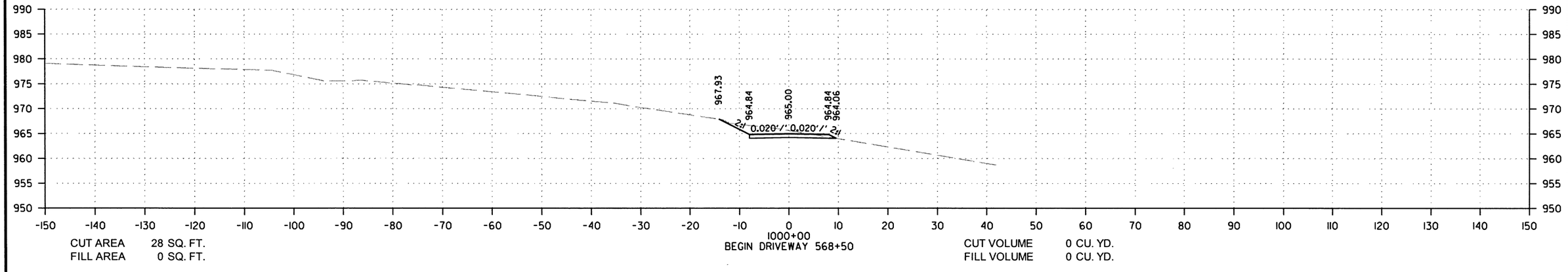
HWY. 110
CROSS SECTION STA. 705+22.42

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	587	605

(2) CROSS SECTIONS



CUT AREA 28 SQ. FT.
FILL AREA 0 SQ. FT.

1000+00
BEGIN DRIVEWAY 568+50

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

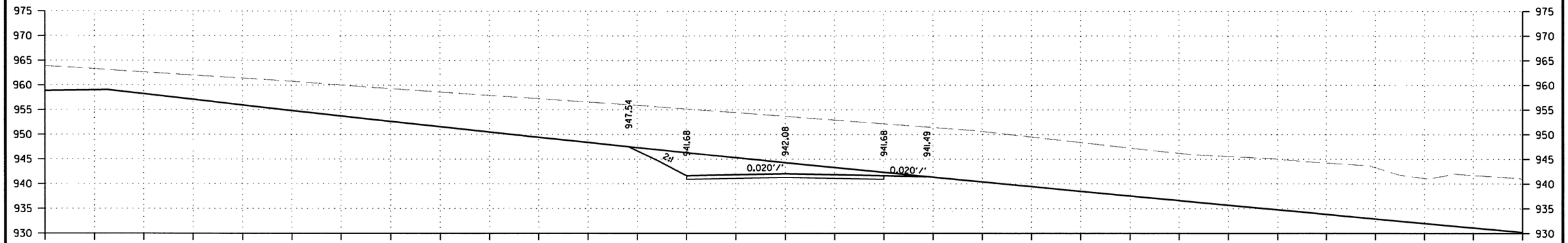
DRIVEWAY 568+50
CROSS SECTION STA. 1000+00 TO STA. 1000+00

11/13/2018

RCA0801.DGN

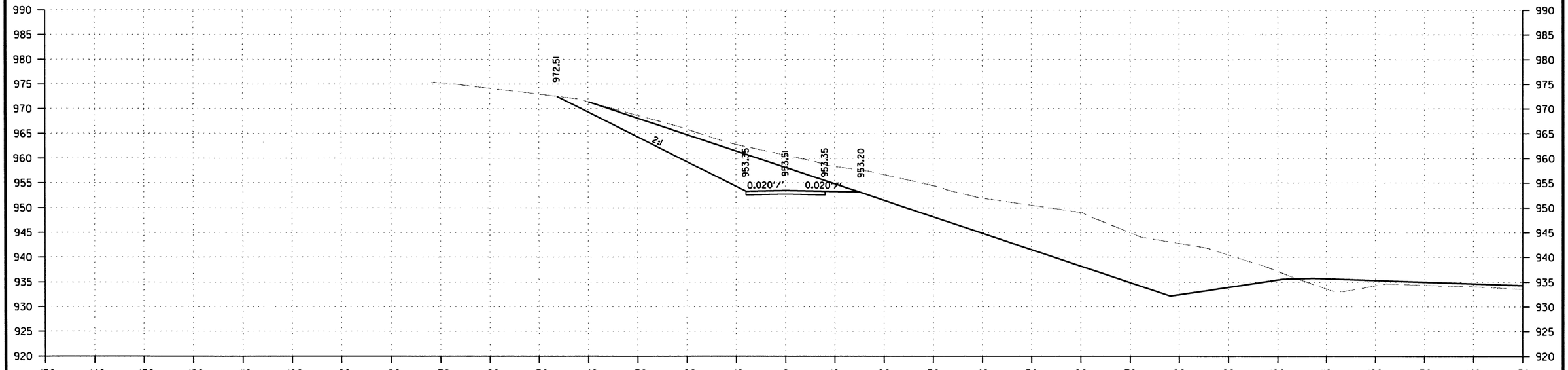
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	588	605

(2) CROSS SECTIONS



CUT AREA 158 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 765 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 255 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 524 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 568+50
CROSS SECTION STA. 1001+00 TO STA. 1002+00

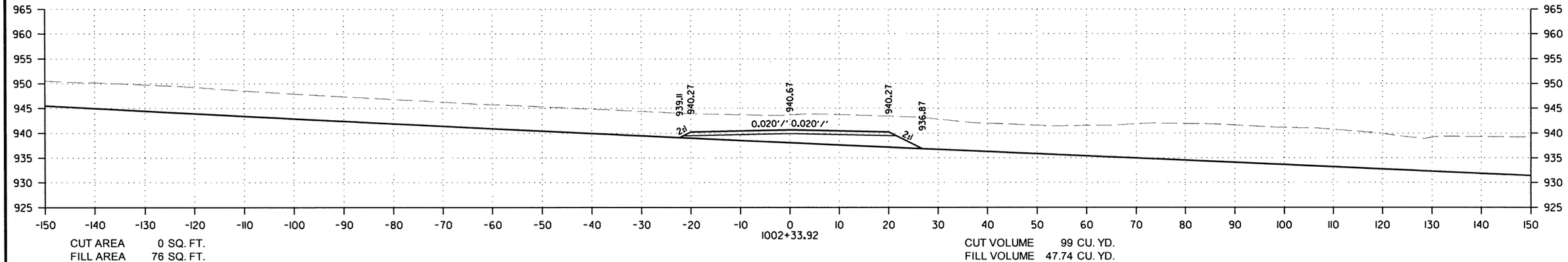
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	589	605

(2) CROSS SECTIONS

1002+51.87
END DRIVEWAY 568+50



CUT AREA 0 SQ. FT.
FILL AREA 76 SQ. FT.

CUT VOLUME 99 CU. YD.
FILL VOLUME 47.74 CU. YD.

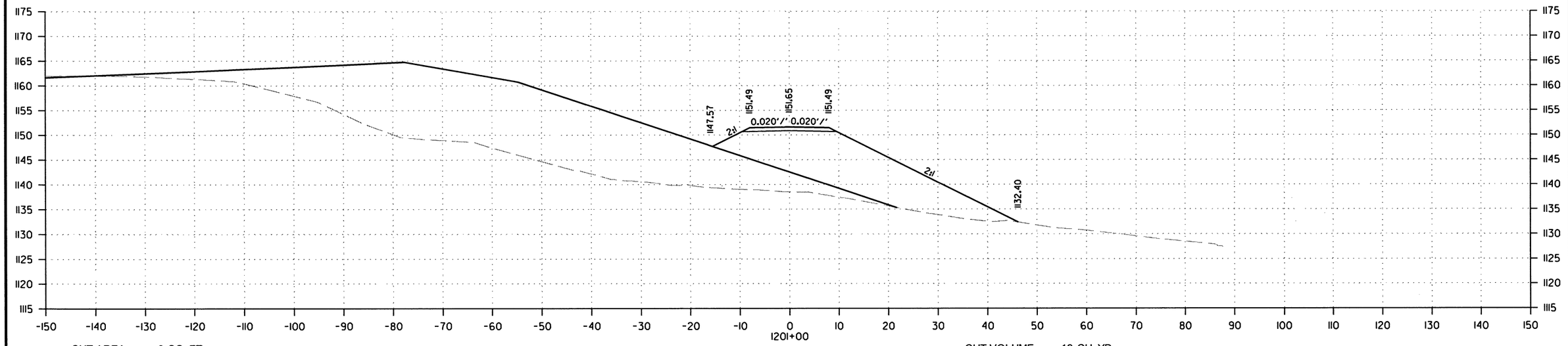
DRIVEWAY 568+50
CROSS SECTION STA. 1002+33.92

11/13/2018

RCA0801.DGN

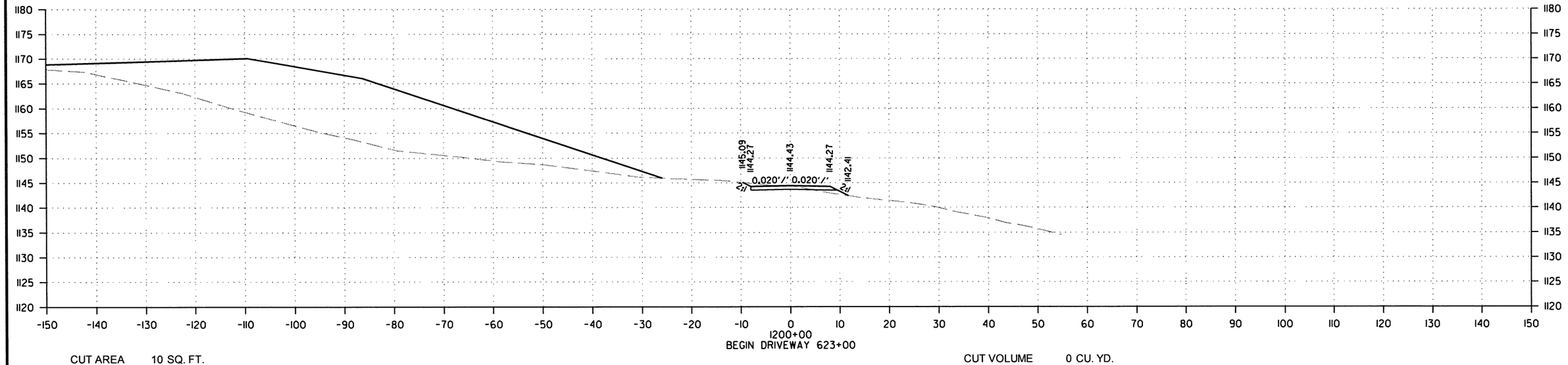
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	590	605

(2) CROSS SECTIONS



CUT AREA 0 SQ. FT.
FILL AREA 421 SQ. FT.

CUT VOLUME 19 CU. YD.
FILL VOLUME 785 CU. YD.



CUT AREA 10 SQ. FT.
FILL AREA 3 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 623+00
CROSS SECTION STA. 1200+00 TO STA. 1201+00

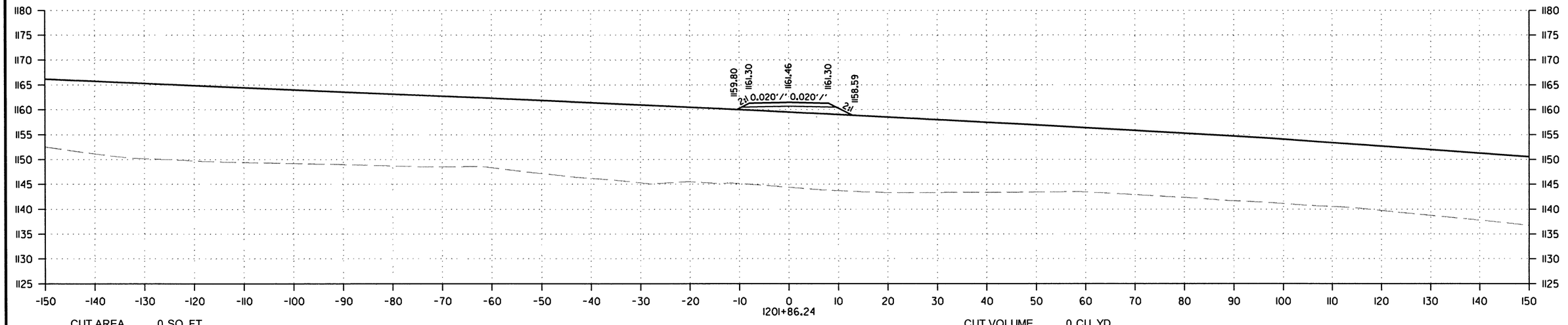
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	591	605

(2) CROSS SECTIONS

1201+98.01
END DRIVEWAY 623+00



CUT AREA 0 SQ. FT.
FILL AREA 23 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 709 CU. YD.

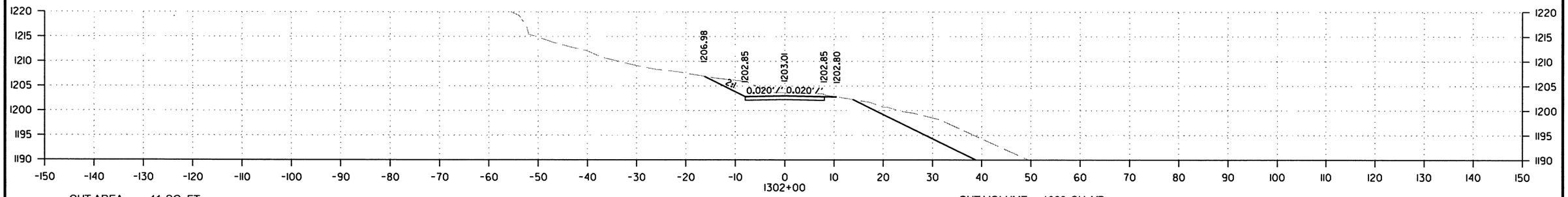
DRIVEWAY 623+00
CROSS SECTION STA. 1201+86.24

11/13/2018

RCA0801.DGN

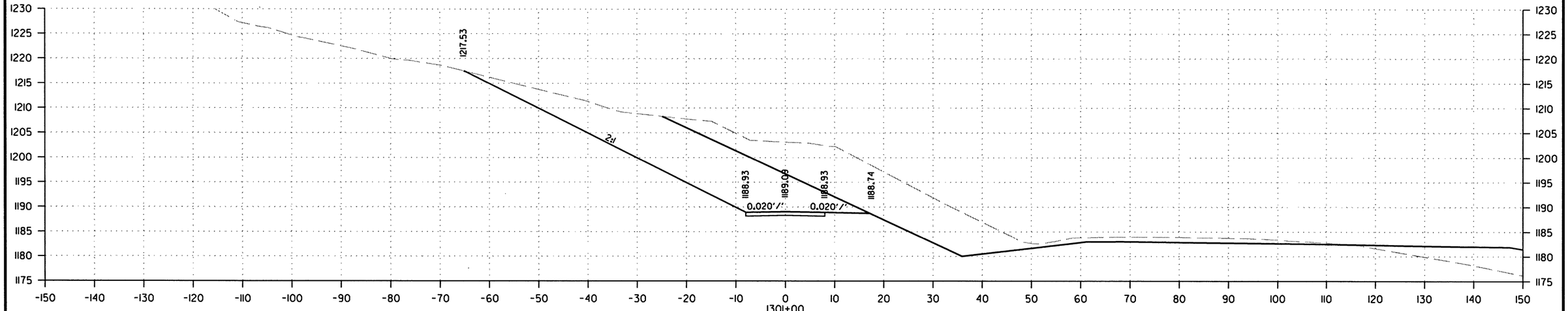
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	592	605

(2) CROSS SECTIONS



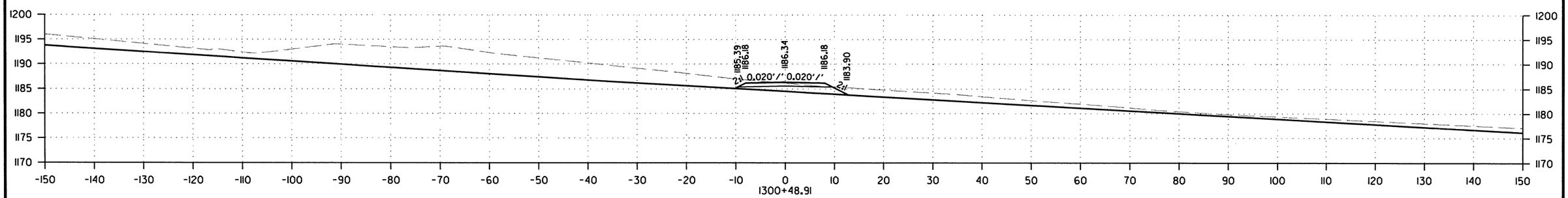
CUT AREA 41 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 1089 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 547 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 518 CU. YD.
FILL VOLUME 19.87 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 21 SQ. FT.

1300+37.50
BEGIN DRIVEWAY 628+00

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

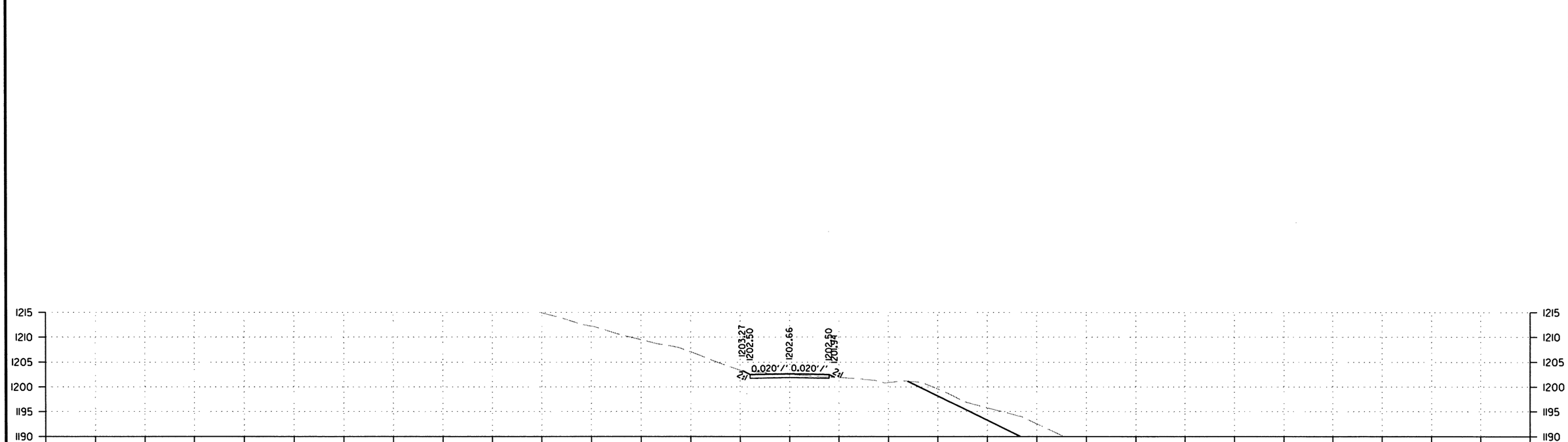
DRIVEWAY 628+00
CROSS SECTION STA. 1300+48.91 TO STA. 1302+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	593	605

(2) CROSS SECTIONS



CUT AREA 12 SQ. FT.
FILL AREA 0 SQ. FT.

1302+32.29
END DRIVEWAY 628+00

CUT VOLUME 32 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 628+00
CROSS SECTION STA. 1302+32.29

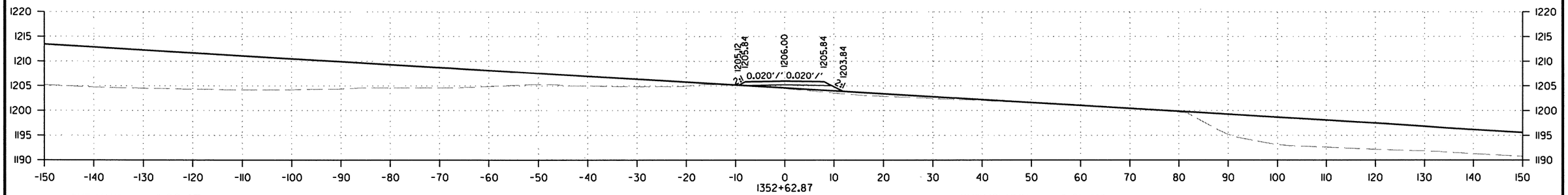
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	594	605

(2) CROSS SECTIONS

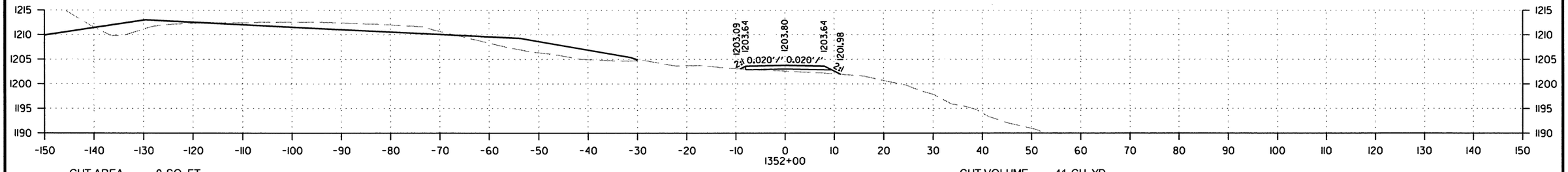
1352+74.62
END DRIVEWAY 631+35



1352+62.87

CUT AREA 0 SQ. FT.
FILL AREA 12 SQ. FT.

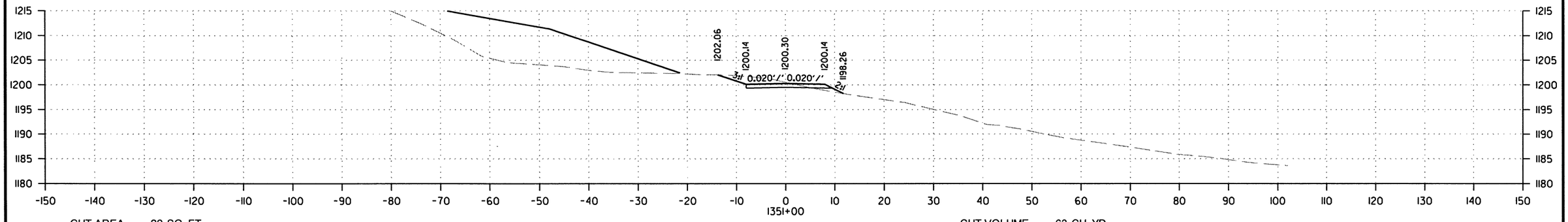
CUT VOLUME 0 CU. YD.
FILL VOLUME 23 CU. YD.



1352+00

CUT AREA 0 SQ. FT.
FILL AREA 8 SQ. FT.

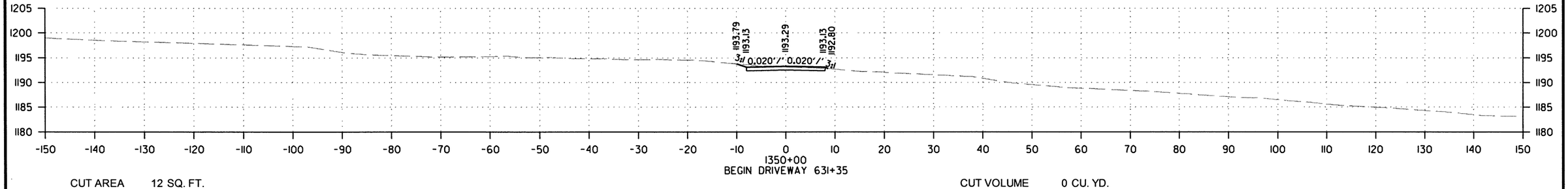
CUT VOLUME 41 CU. YD.
FILL VOLUME 20 CU. YD.



1351+00

CUT AREA 22 SQ. FT.
FILL AREA 3 SQ. FT.

CUT VOLUME 63 CU. YD.
FILL VOLUME 6 CU. YD.



1350+00
BEGIN DRIVEWAY 631+35

CUT AREA 12 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

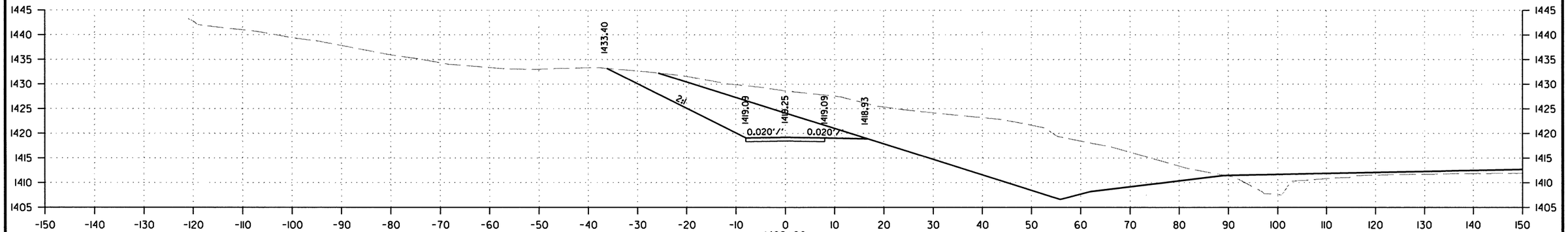
DRIVEWAY 631+35
CROSS SECTION STA. 1350+00 TO STA. 1352+62.87

11/13/2018

RCA0801.DGN

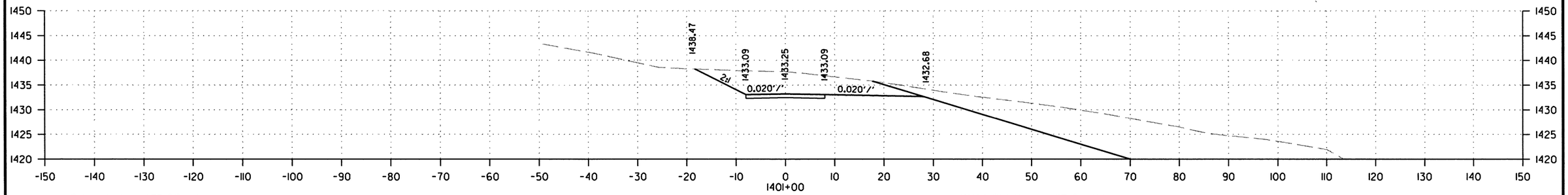
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	595	605

(2) CROSS SECTIONS



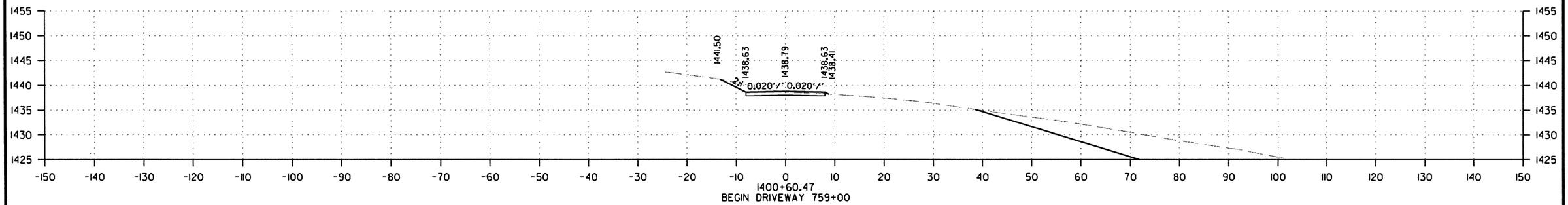
CUT AREA 231 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 715 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 155 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 127 CU. YD.
FILL VOLUME 0 CU. YD.



CUT AREA 19 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 759+00
CROSS SECTION STA. 1400+60.47 TO STA. 1402+00

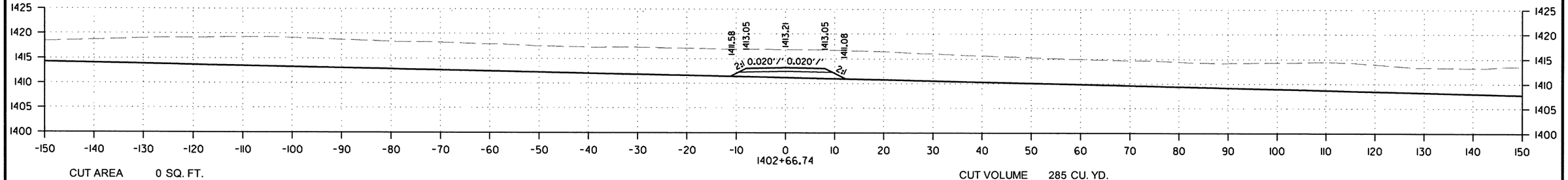
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	596	605

(2) CROSS SECTIONS

1402+78.84
END DRIVEWAY 759+00



CUT AREA 0 SQ. FT.
FILL AREA 25 SQ. FT.

CUT VOLUME 285 CU. YD.
FILL VOLUME 31 CU. YD.

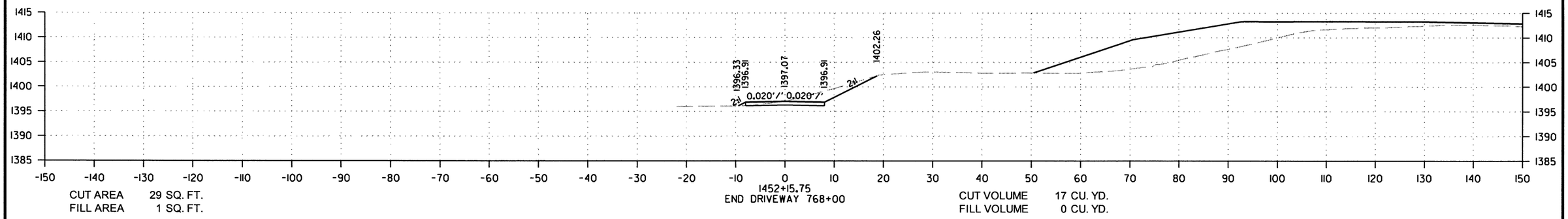
DRIVEWAY 759+00
CROSS SECTION STA. 1402+66.74

11/13/2018

RCA0801.DGN

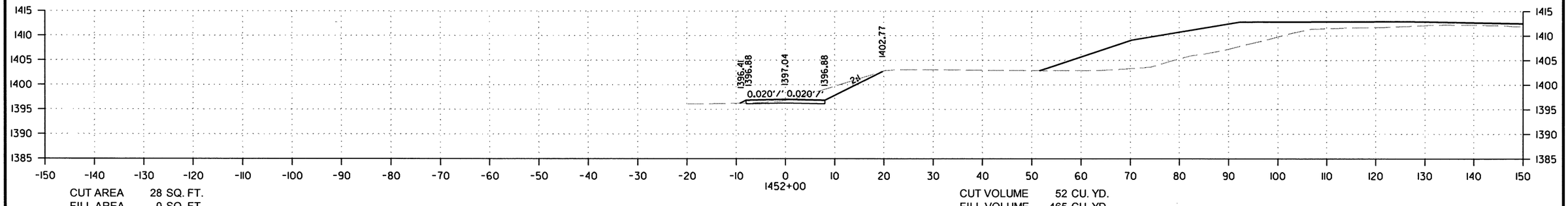
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	597	605

(2) CROSS SECTIONS



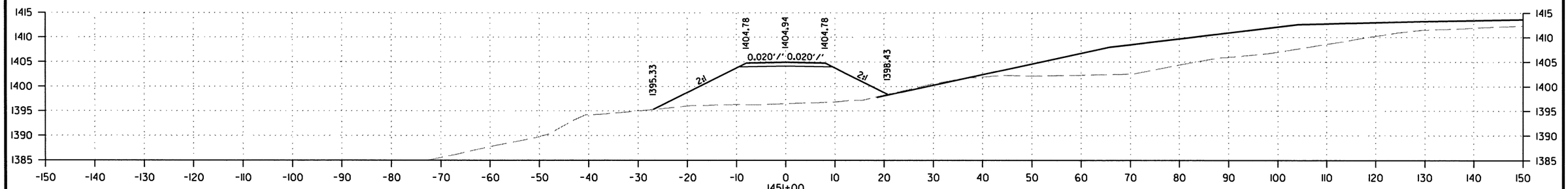
CUT AREA 29 SQ. FT.
FILL AREA 1 SQ. FT.

CUT VOLUME 17 CU. YD.
FILL VOLUME 0 CU. YD.



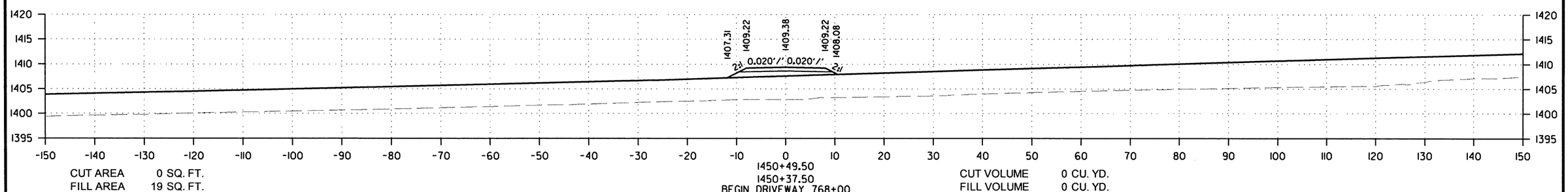
CUT AREA 28 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 52 CU. YD.
FILL VOLUME 465 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 251 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 253 CU. YD.



CUT AREA 0 SQ. FT.
FILL AREA 19 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

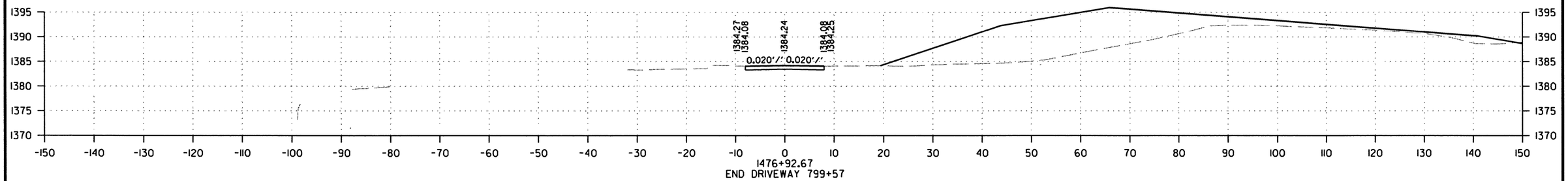
DRIVEWAY 768+00
CROSS SECTION STA. 1450+49.50 TO STA. 1452+15.75

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	598	605

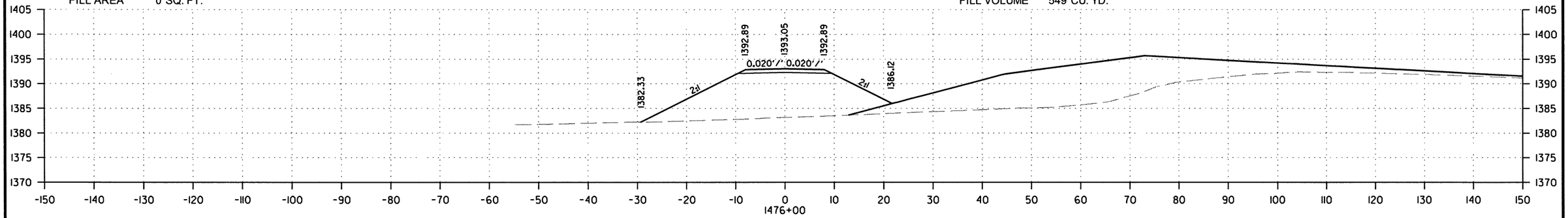
(2) CROSS SECTIONS



1476+92.67
END DRIVEWAY 799+57

CUT AREA 11 SQ. FT.
FILL AREA 0 SQ. FT.

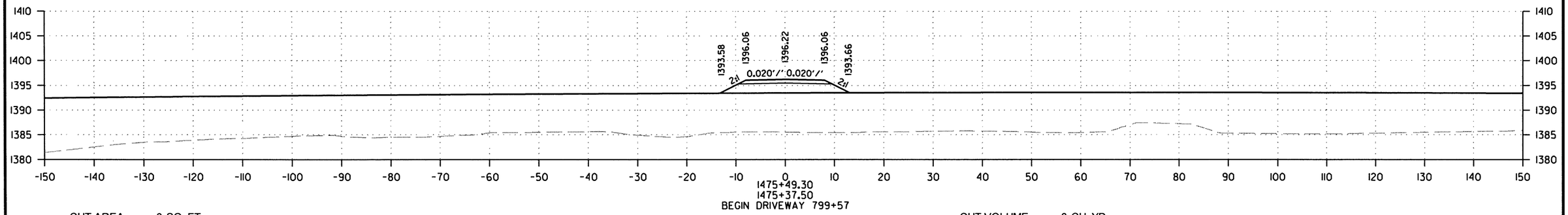
CUT VOLUME 19 CU. YD.
FILL VOLUME 549 CU. YD.



1476+00

CUT AREA 0 SQ. FT.
FILL AREA 320 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 341 CU. YD.



1475+49.30
1475+37.50
BEGIN DRIVEWAY 799+57

CUT AREA 0 SQ. FT.
FILL AREA 43 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 799+57
CROSS SECTION STA. 1475+49.30 TO STA. 1476+92.67

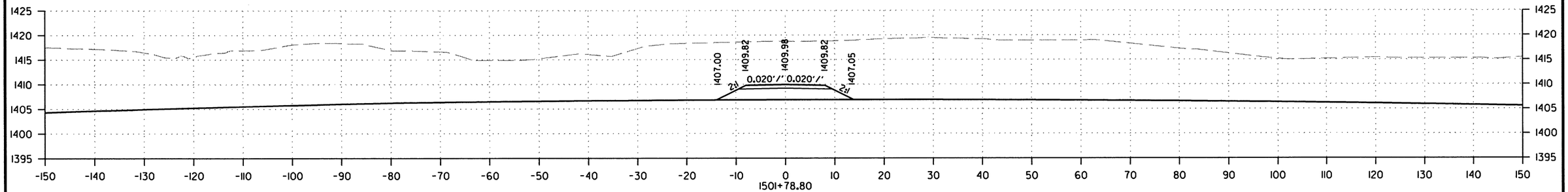
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	599	605

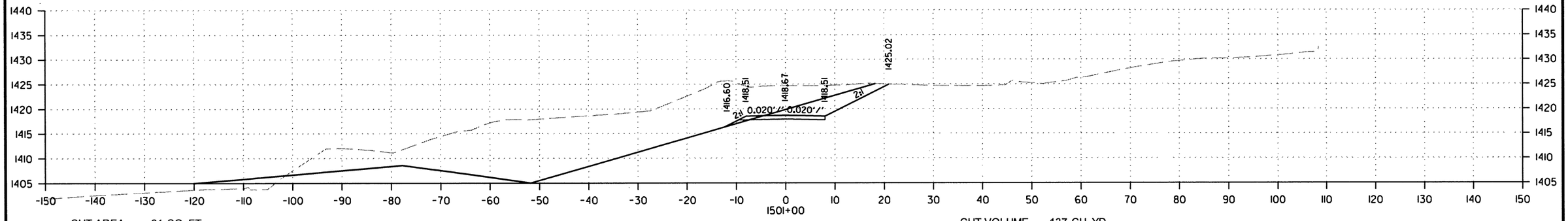
(2) CROSS SECTIONS

1501+90.49
END DRIVEWAY 848+50



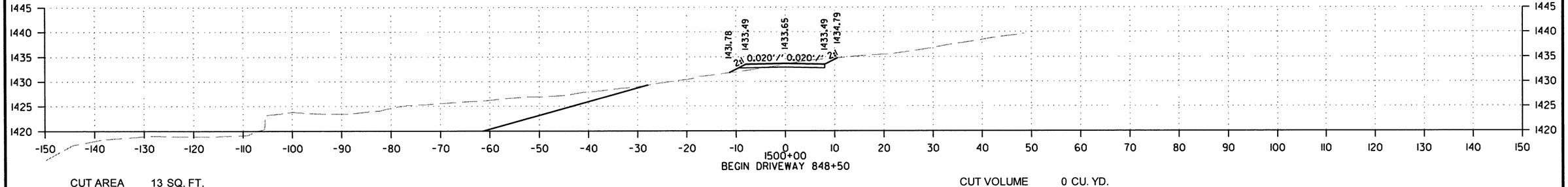
CUT AREA 0 SQ. FT.
FILL AREA 52 SQ. FT.

CUT VOLUME 89 CU. YD.
FILL VOLUME 79 CU. YD.



CUT AREA 61 SQ. FT.
FILL AREA 2 SQ. FT.

CUT VOLUME 137 CU. YD.
FILL VOLUME 9 CU. YD.



CUT AREA 13 SQ. FT.
FILL AREA 3 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 848+50
CROSS SECTION STA. 1500+00 TO STA. 1501+78.80

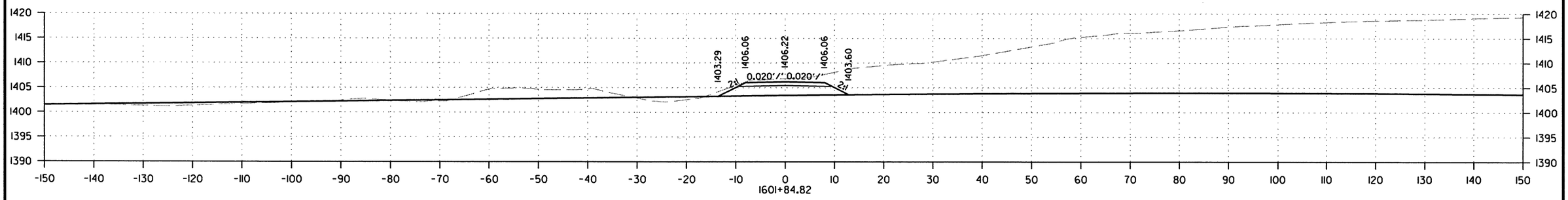
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	600	605

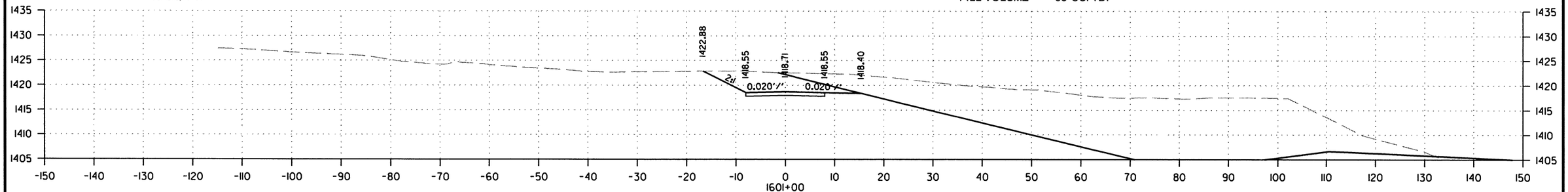
(2) CROSS SECTIONS

1601+96.49
END DRIVEWAY 852+00



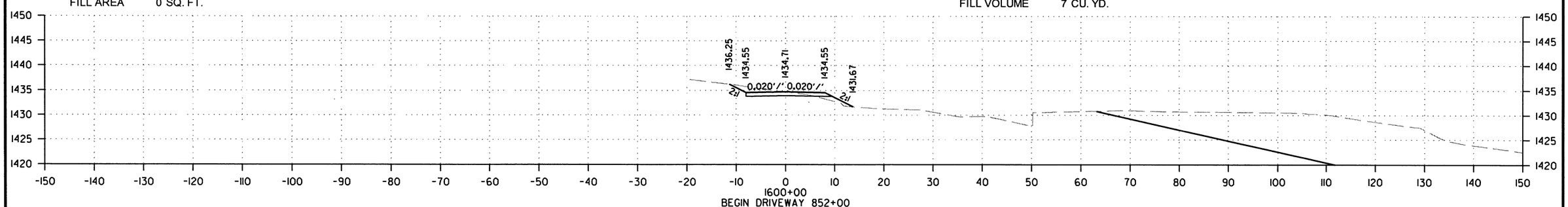
CUT AREA 0 SQ. FT.
FILL AREA 43 SQ. FT.

CUT VOLUME 141 CU. YD.
FILL VOLUME 68 CU. YD.



CUT AREA 90 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 194 CU. YD.
FILL VOLUME 7 CU. YD.



CUT AREA 15 SQ. FT.
FILL AREA 4 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

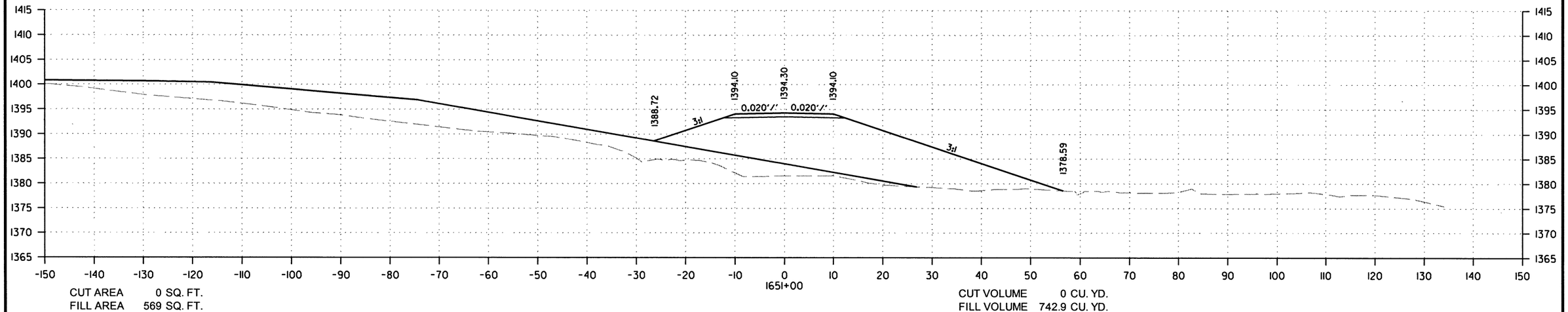
DRIVEWAY 852+00
CROSS SECTION STA. 1600+00 TO STA. 1601+84.82

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	601	605

(2) CROSS SECTIONS



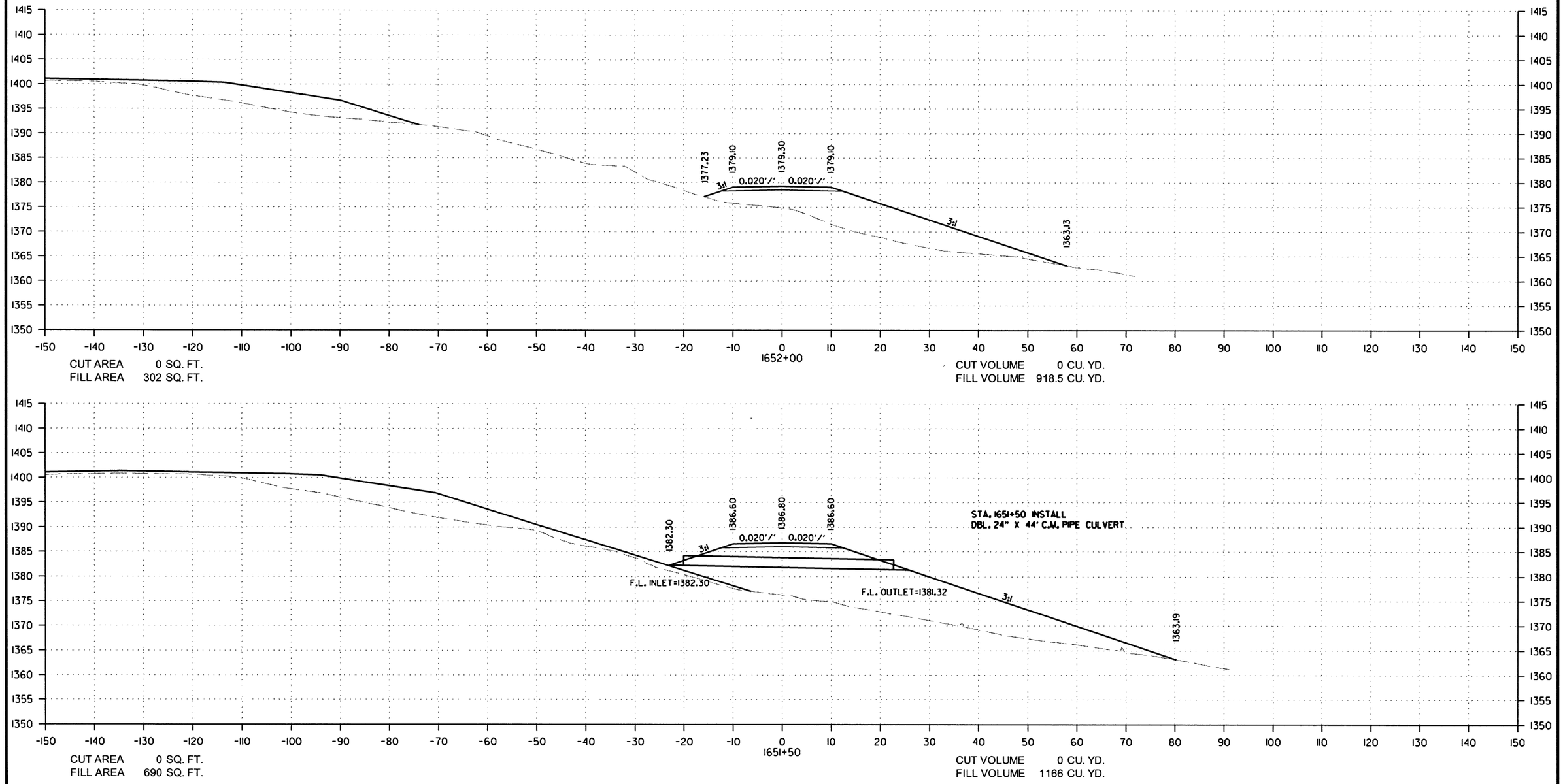
DRIVEWAY 854+56
CROSS SECTION STA. 1650+29.55 TO STA. 1651+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	602	605

(2) CROSS SECTIONS



CUT AREA 0 SQ. FT.
FILL AREA 302 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 918.5 CU. YD.

CUT AREA 0 SQ. FT.
FILL AREA 690 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 1166 CU. YD.

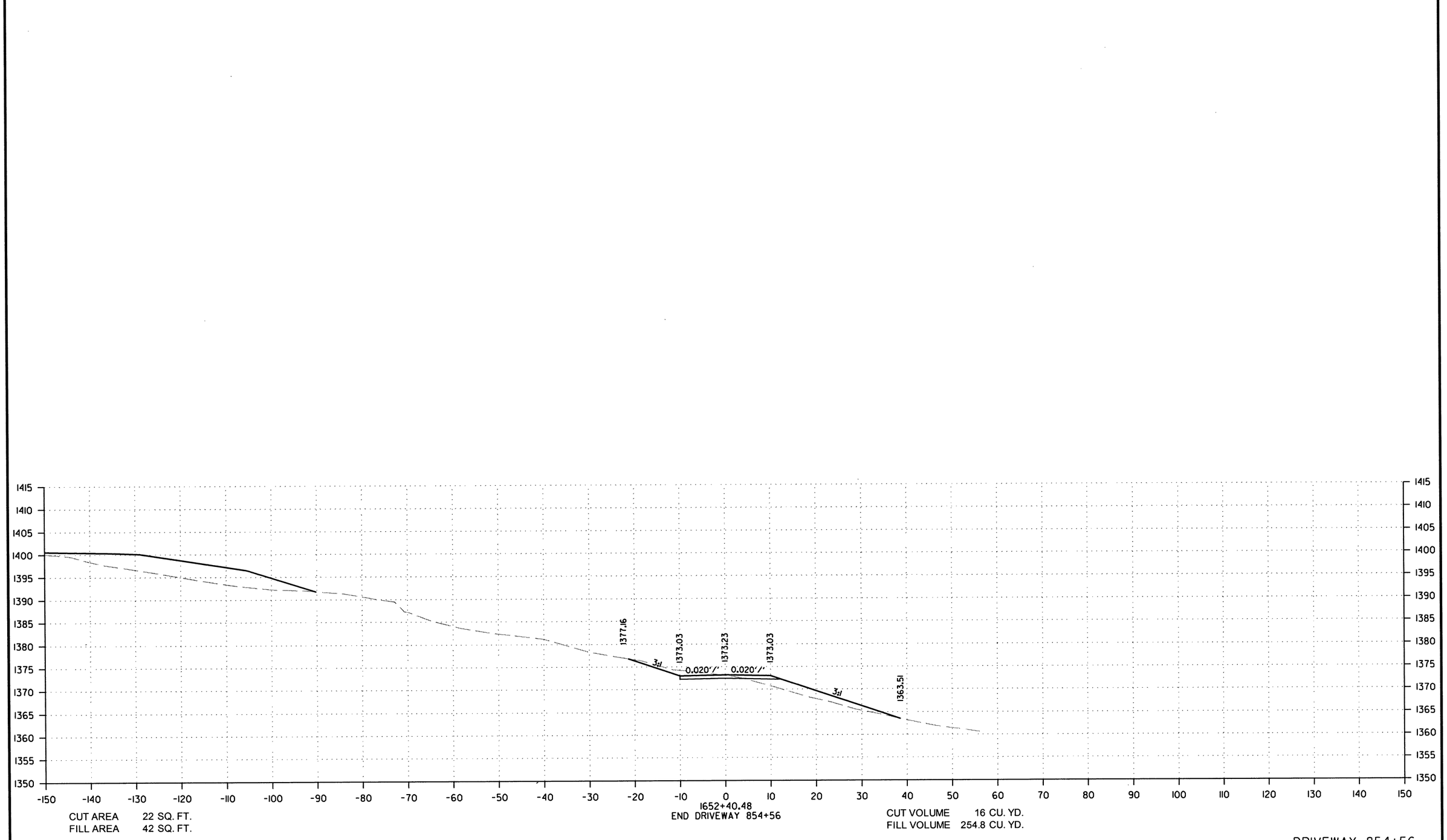
DRIVEWAY 854+56
CROSS SECTION STA. 1651+50 TO STA. 1652+00

11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	603	605

(2) CROSS SECTIONS



CUT AREA 22 SQ. FT.
FILL AREA 42 SQ. FT.

CUT VOLUME 16 CU. YD.
FILL VOLUME 254.8 CU. YD.

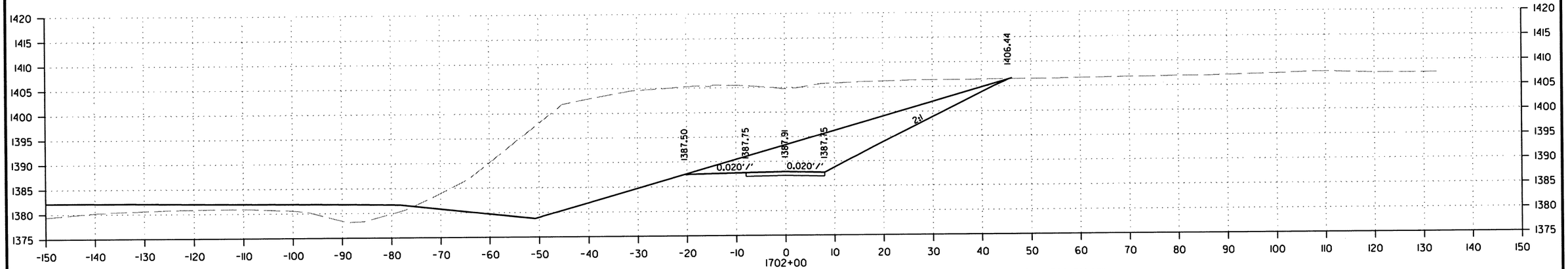
DRIVEWAY 854+56
CROSS SECTION STA. 1652+40.48 TO STA. 1652+40.48

11/13/2018

RCA0801.DGN

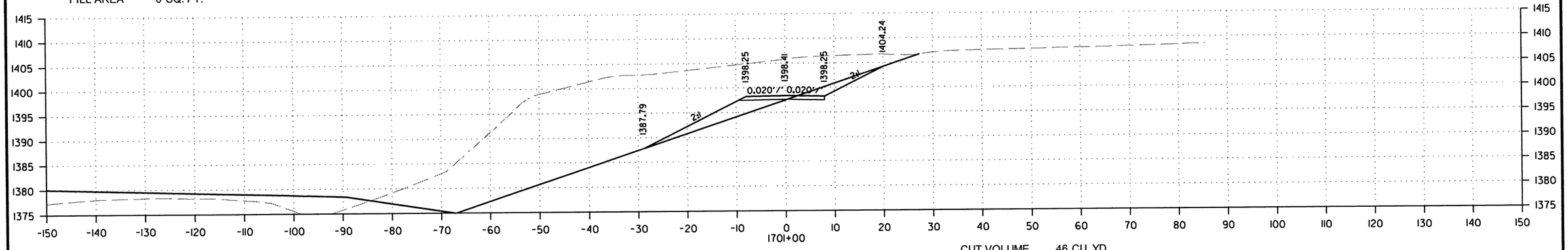
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	604	605

(2) CROSS SECTIONS



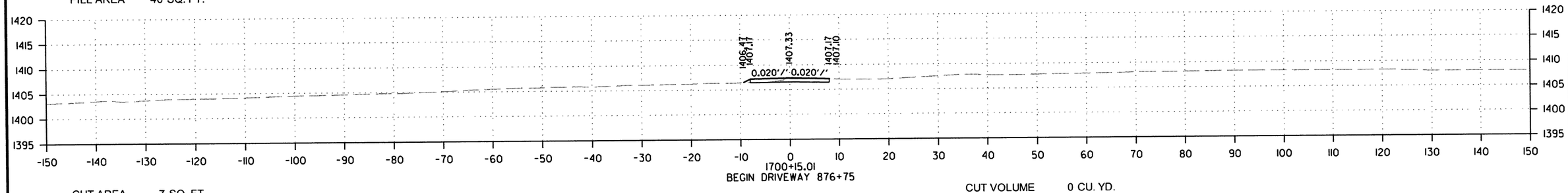
CUT AREA 264 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 530 CU. YD.
FILL VOLUME 85 CU. YD.



CUT AREA 22 SQ. FT.
FILL AREA 46 SQ. FT.

CUT VOLUME 46 CU. YD.
FILL VOLUME 72 CU. YD.



CUT AREA 7 SQ. FT.
FILL AREA 0 SQ. FT.

CUT VOLUME 0 CU. YD.
FILL VOLUME 0 CU. YD.

DRIVEWAY 876+75
CROSS SECTION STA. 1700+15.01 TO STA. 1702+00

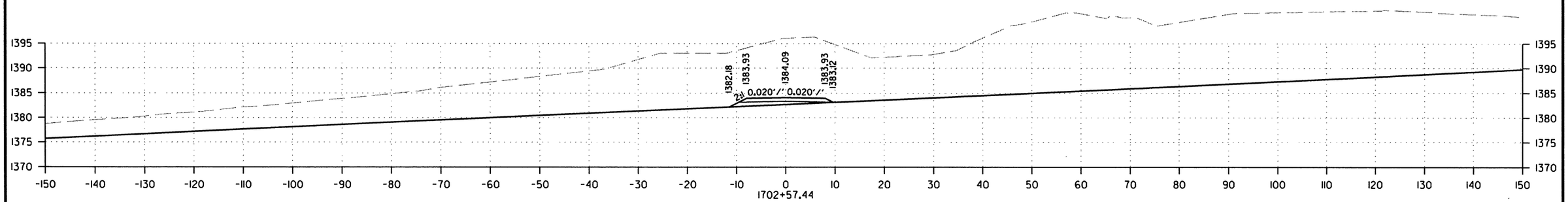
11/13/2018

RCA0801.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		CA0801	605	605

(2) CROSS SECTIONS

1702+69.65
END DRIVEWAY 876+75



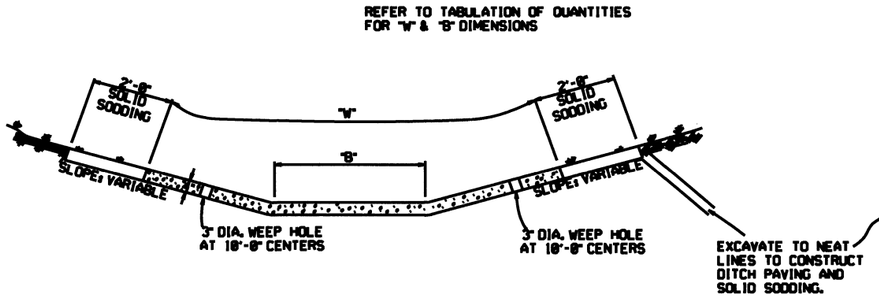
CUT AREA	0 SQ. FT.
FILL AREA	12 SQ. FT.

CUT VOLUME	281 CU. YD.
FILL VOLUME	13 CU. YD.

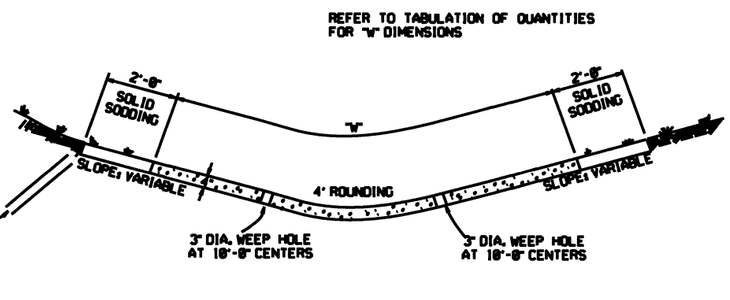
DRIVEWAY 876+75
CROSS SECTION STA. 1702+57.44

11/13/2018

RCA0801.DGN

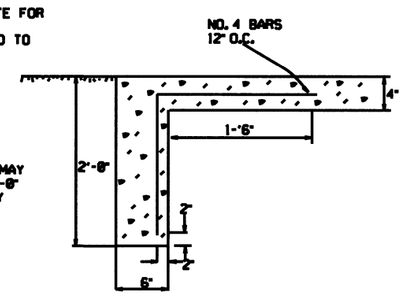


TYPE A



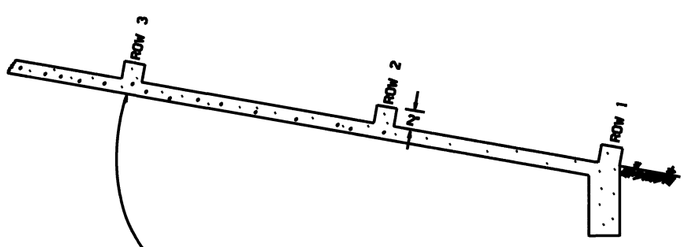
TYPE B

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."

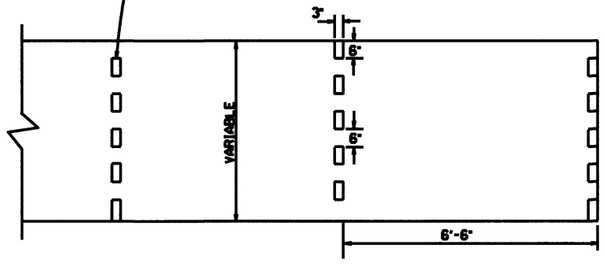


TOE WALL DEPTH MAY BE ALTERED TO 1'-6" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION

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.

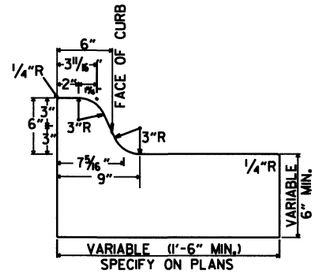
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
10-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
10-30-8	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	663-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	632-1-9-87
12-3-86	ADDED NOTE TO ENERGY DISS.	595-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
10-1-84	EXCAVATION DETAILS ADDED TYPES A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72

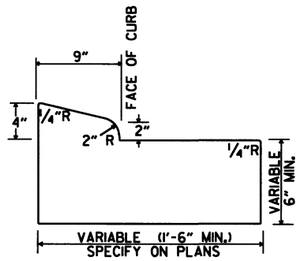
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

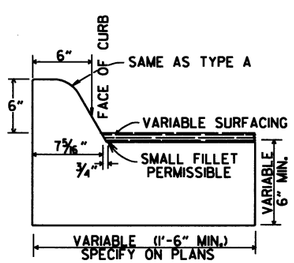
STANDARD DRAWING CDP-1



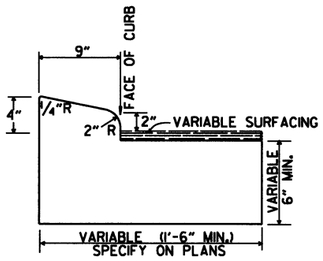
TYPE A



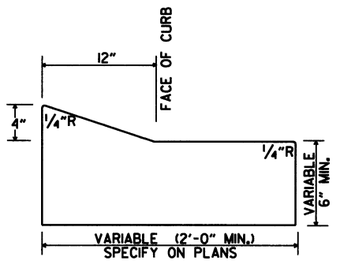
TYPE B-1



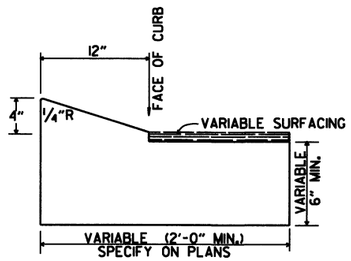
TYPE C



TYPE B-2

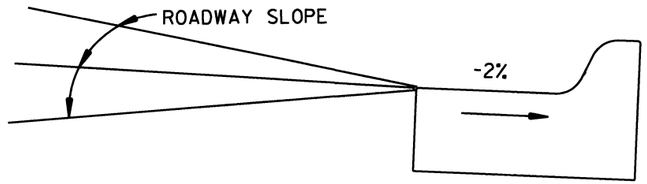


TYPE E-1



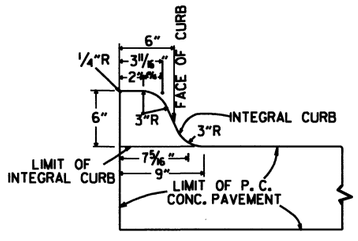
TYPE E-2

CONCRETE COMBINATION CURB AND GUTTER

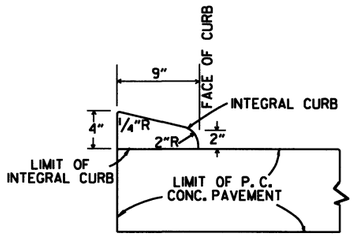


DETAIL OF GUTTER SLOPE

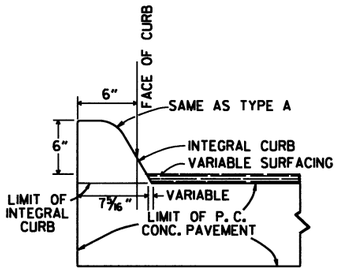
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



TYPE A

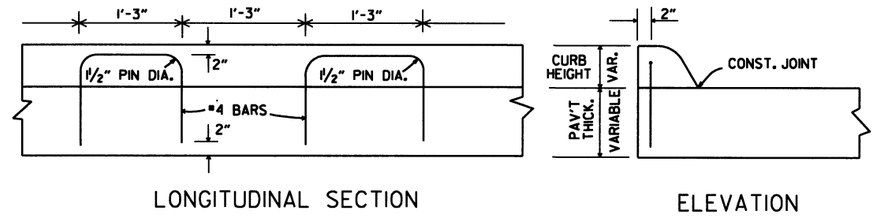


TYPE B



TYPE C

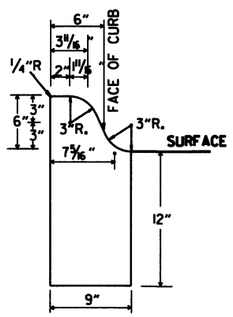
INTEGRAL CURB



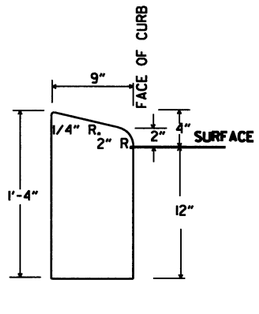
LONGITUDINAL SECTION

ELEVATION

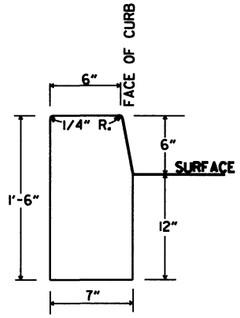
ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



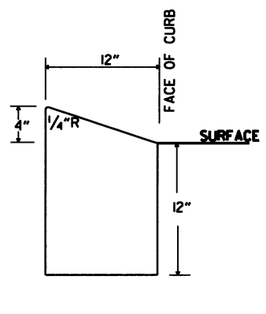
TYPE A



TYPE B

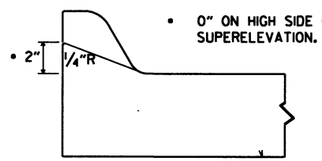


TYPE D



TYPE E

CONCRETE CURB



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

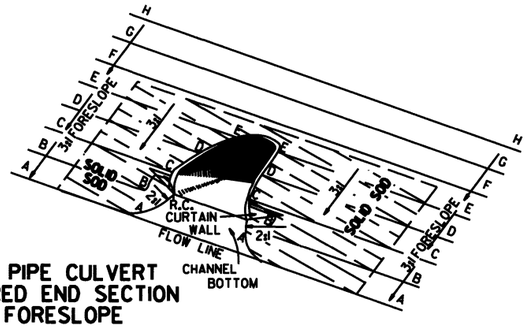
DETAILS OF MODIFIED CURB

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

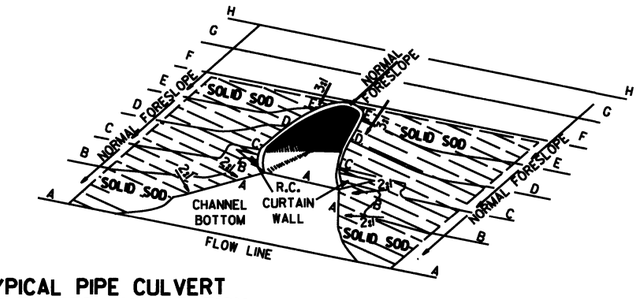
ARKANSAS STATE HIGHWAY COMMISSION

CURBING DETAILS

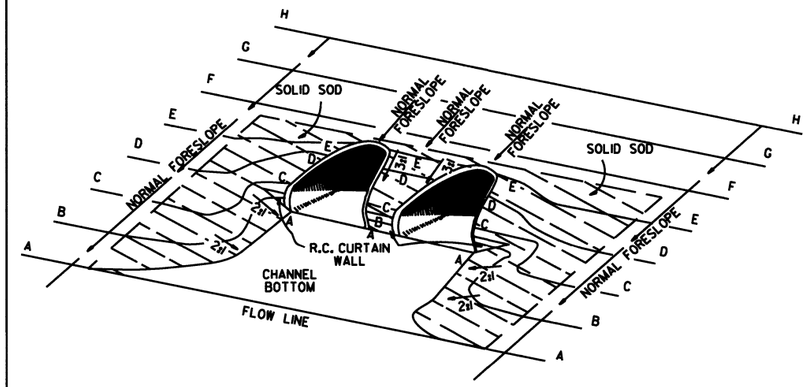
STANDARD DRAWING CG-1



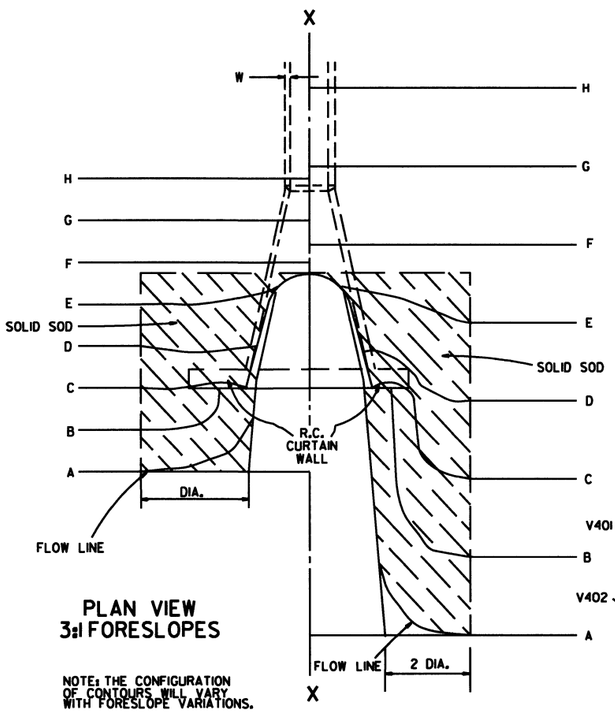
TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& FLATTENED ADJACENT SLOPES



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



PLAN VIEW
3:1 FORESLOPES

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

PLAN VIEW
FLATTENED FORESLOPES

R.C. CURTAIN WALL DIMENSIONS & QUANTITIES

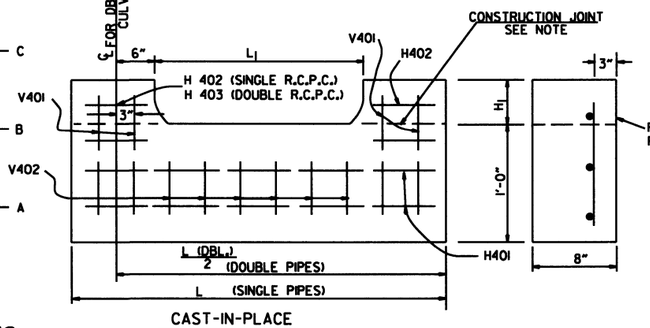
PIPE DIA.	H_1	L_1	L	L (DBL.)/2	SINGLE R.C.P.C. CONC.	SINGLE R.C.P.C. REINF. STEEL	DOUBLE R.C.P.C. CONC.	DOUBLE R.C.P.C. REINF. STEEL
					CU. YDS.	LBS.	CU. YDS.	LBS.
18"	1'-11½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	39.0	0.67	59.0
36"	1'-7"	6'-8"	13'-0"	10'-6"	0.58	52.6	0.83	73.9
42"	2'-1½"	7'-3"	15'-6"	12'-0"	0.82	77.1	1.10	100.7
48"	2'-5"	7'-10"	17'-0"	13'-0"	0.98	94.9	1.27	120.4
54"	2'-9½"	8'-5"	18'-6"	14'-0"	1.16	115.8	1.47	143.7
60"	3'-4"	9'-0"	20'-6"	15'-6"	1.47	149.7	1.84	180.3
72"	4'-5"	10'-2"	25'-6"	18'-6"	2.31	232.6	2.73	271.0

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

REINFORCING STEEL SCHEDULE

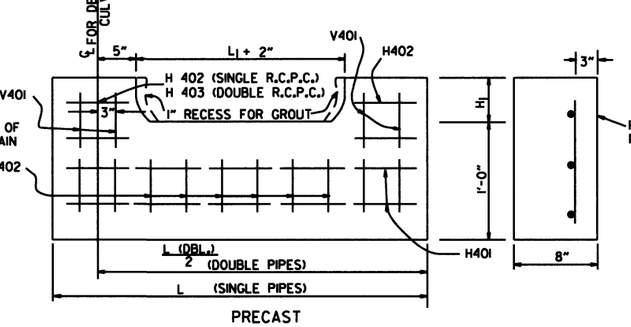
PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	V401 L	V401 NO.	V402 L	V402 NO.	DOUBLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	H403 L	H403 NO.	V401 L	V401 NO.	V402 L	V402 NO.
18"	7'-8"	2	1'-11½"	4	1'-7½"	8	8"	8	12'-2"	2	1'-11½"	4	8"	2	1'-7½"	10	8"	14
24"	9'-2"	2	2'-2"	4	1'-8½"	10	8"	9	14'-8"	2	2'-2"	4	8"	2	1'-8½"	12	8"	18
30"	10'-8"	2	2'-4½"	4	1'-11½"	10	8"	12	17'-8"	2	2'-4½"	4	8"	2	1'-11½"	14	8"	22
36"	12'-8"	2	2'-10"	6	2'-3"	12	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
42"	15'-2"	2	3'-9½"	8	2'-9½"	16	8"	15	23'-8"	2	3'-9½"	8	8"	4	2'-9½"	18	8"	30
48"	16'-8"	2	4'-3"	10	3'-1"	18	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
54"	18'-2"	2	4'-8½"	12	3'-5½"	20	8"	17	27'-8"	2	4'-9"	12	8"	6	3'-5½"	22	8"	34
60"	20'-2"	2	5'-5"	14	4'-0"	24	8"	18	30'-8"	2	5'-5"	14	8"	7	4'-0"	26	8"	36
72"	25'-2"	2	7'-4"	18	5'-1"	30	8"	20	36'-8"	2	7'-4"	18	8"	9	5'-1"	33	8"	40

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



CAST-IN-PLACE

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



PRECAST

NOTE: THE PRECAST CURTAIN WALL WILL BE SET AND BACKFILLED WITH COMPACTED MATERIAL. THE FLARED END SECTION SHALL THEN BE SET IN PLACE AND THE 1" RECESS FILLED WITH GROUT. WHERE "L" EXCEEDS 11' THE CURTAIN WALL MAY BE CAST IN TWO (2) OR MORE SECTIONS. THE METHOD OF JOINING THE SECTIONS FOR INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

R.C. CURTAIN WALL DETAILS

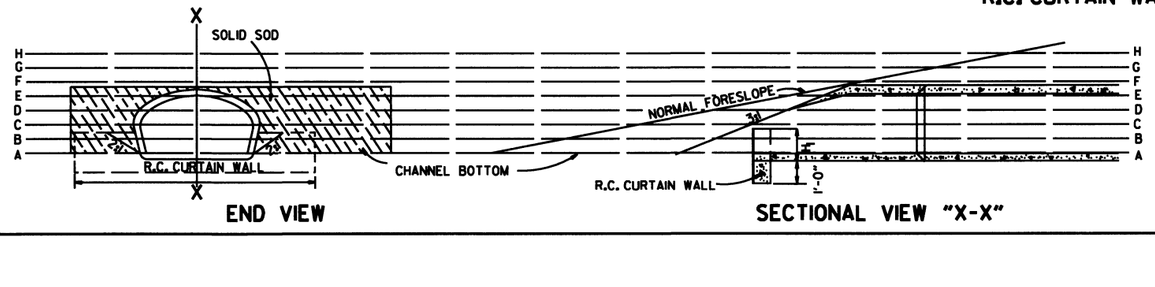
SOLID SODDING

PIPE DIA.	SINGLE R.C.P.C. 3:1	SINGLE R.C.P.C. 4:1	SINGLE R.C.P.C. 6:1	DOUBLE R.C.P.C. 3:1	DOUBLE R.C.P.C. 4:1	DOUBLE R.C.P.C. 6:1
	SQ. YDS.			SQ. YDS.		
18"	5	7	12	6	8	13
24"	8	12	19	9	13	20
30"	13	18	29	14	19	30
36"	17	26	41	18	28	43
42"	23	35	55	25	37	57
48"	29	46	68	31	48	70
54"	35	57	85	38	59	87
60"	45	67	104	48	68	107
72"	64	92	136	67	95	139

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

GENERAL NOTES

1. A CAST-IN-PLACE OR PRECAST CURTAIN WALL MAY BE USED. PAYMENT FOR THE CURTAIN WALL SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID EACH FOR FLARED END SECTIONS OF THE SEVERAL SIZES, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS INCLUDING REINFORCING STEEL AND CONCRETE: FOR FORMS, MIXING AND PLACING; FOR EXCAVATION AND BACKFILL, AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED ¾".
3. CONCRETE FOR CURTAIN WALL SHALL MEET THE REQUIREMENTS FOR CLASS A OR S CONCRETE AS PROVIDED IN SECTION 802 OF THE STANDARD SPECIFICATIONS OR FOR PAVING CONCRETE AS PROVIDED IN SECTION 501 OF THE STANDARD SPECIFICATIONS.
4. WELDED WIRE MESH 3 × 3 W/10 × W10 MAY BE USED IN LIEU OF REINFORCING BARS.



END VIEW

SECTIONAL VIEW "X-X"

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

ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

STANDARD DRAWING FES-1

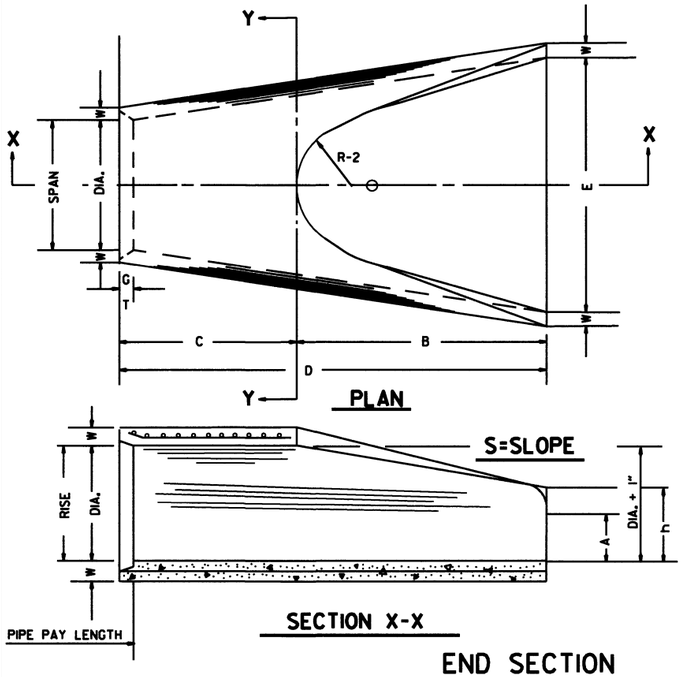


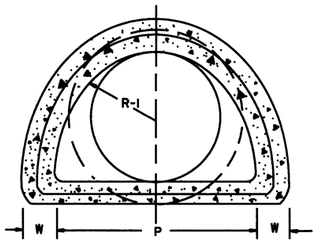
TABLE OF DIMENSIONS

DIA.	WALL	A	B	C	D	E	S	DIA. + 1"	P	R-1	R-2	G-T	WT.	h
18"	2½"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15½"	12"	2"	1000	1'-0½"
24"	3"	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	3:1	25"	33⅜"	16⅝"	14"	2½"	1600	1'-1½"
30"	3½"	1'-0"	4'-6"	1'-7¾"	6'-1¾"	5'-0"	3:1	31"	37"	18½"	15"	¾"	1940	1'-4⅝"
36"	4"	1'-3"	5'-3"	2'-10¼"	8'-1¼"	6'-0"	3:1	37"	47⅛"	24⅛"	20"	3½"	4100	1'-8"
42"	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53⅛"	27½"	22"	3½"	5380	2'-2½"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56½"	28½"	22"	3½"	6550	2'-6"
54"	5½"	2'-4"	6'-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65½"	33⅛"	24"	4"	8750	2'-10½"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72½"	36⅝"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77⅝"	38⅝"	24"	5"	13250	4'-6"

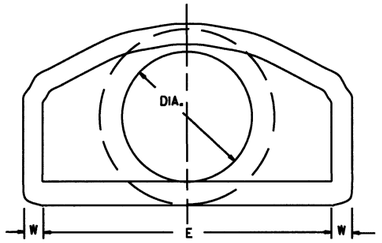
ARCH PIPE

EQUIV. DIA.	• SPAN AASHTO M 206	• SPAN AHD NOMINAL	• RISE AASHTO M 206	• RISE AHD NOMINAL	W	A	B	C	D	E	P	R2	G-T	S
	INCHES													
15	18	18	11	11	2"	4"	2'-0"	4'-0"	6'-0"	3'-0"	29"	12"	1½"	2½:1
18	22	22	13½	14	2½"	5"	2'-0"	4'-1"	6'-1"	3'-6"	32⅛"	13"	2½"	2½:1
21	26	26	15½	16	2¾"	7"	2'-3"	3'-10"	6'-1"	4'-0"	34⅛"	14"	2½"	2½:1
24	28½	29	18	18	3"	9"	2'-3"	3'-10"	6'-1"	5'-0"	36⅝"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47⅛"	20"	3"	2½:1
36	43¾	44	26⅝	27	4"	10½"	4'-0"	2'-1½"	6'-1½"	6'-6"	54⅝"	22"	3½"	2½:1
42	51⅛	51	31⅝	31	4½"	11½"	4'-7"	1-10¼"	6'-5¼"	7'-2"	59½"	23"	3¾"	2½:1
48	58½	59	36	36	5"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	7'-10"	70⅝"	24"	4¼"	2½:1
54	65	65	40	40	5½"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72⅛"	24"	4¾"	2½:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77⅝"	24"	5"	2½:1

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

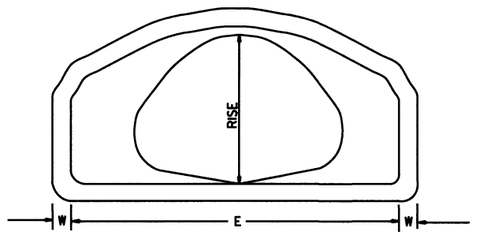


SECTION Y-Y



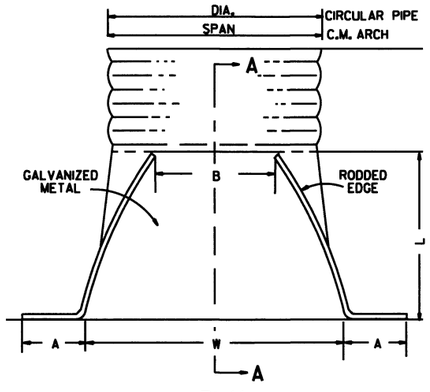
END VIEW

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

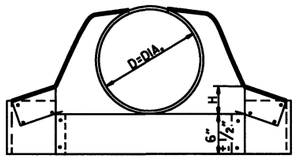


END VIEW
CONCRETE ARCH PIPE

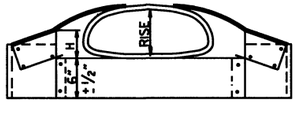
END SECTION FOR REINFORCED CONCRETE PIPE CULVERTS



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



CIRCULAR PIPE



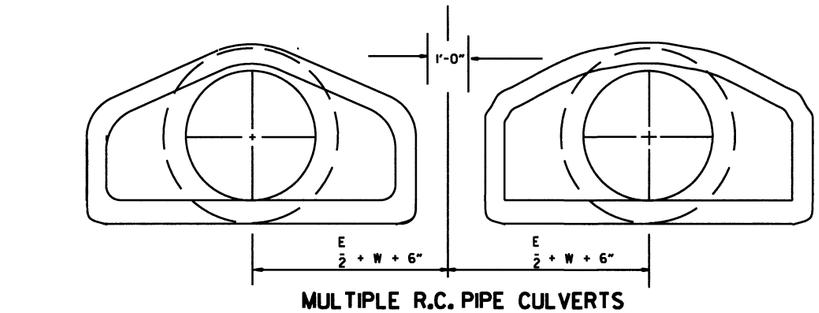
C.M. ARCH PIPE

CIRCULAR PIPE

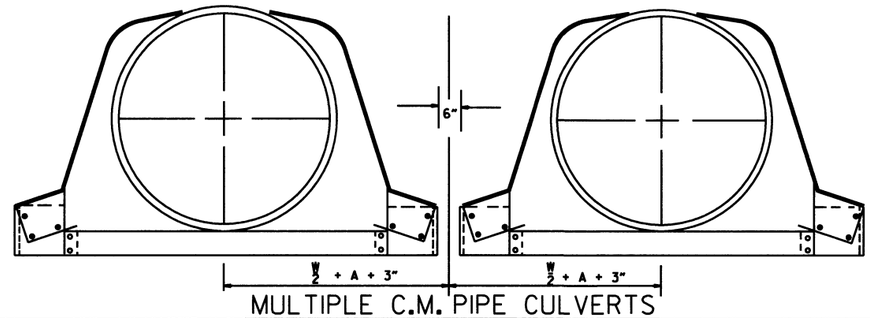
D. DIA.	GAUGE	A 1" ±	B MAX.	H 1" ±	L 1½" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2½:1
15	16	7	8	6	26	30	2½:1
18	16	8	10	6	31	36	2½:1
21	16	9	12	6	36	42	2½:1
24	16	10	13	6	41	48	2½:1
30	14	12	16	8	51	60	2½:1
36	14	14	19	9	60	72	2½:1
42	12	16	22	11	69	84	2½:1
48	12	18	27	12	78	90	2½:1
54	12	18	30	12	84	102	2:1
60	12	18	33	12	87	114	1¾:1
66	12	18	36	12	87	120	1½:1
72	12	18	39	12	87	126	1 1/3:1

C.M. ARCH PIPE

EQUIV. DIA.	SPAN	RISE	A 1" ±	B MAX.	H 1" ±	L 1½" ±	W 2" ±	S	GAUGE
	INCHES								
15"	17	13	7	9	6	19	30	2½:1	16
18"	21	15	7	10	6	23	36	2½:1	16
21"	24	18	8	12	6	28	42	2½:1	16
24"	28	20	9	14	6	32	48	2½:1	16
30"	35	24	10	16	6	39	60	2½:1	14
36"	42	29	12	18	8	46	75	2½:1	14
42"	49	33	13	21	9	53	85	2½:1	12
48"	57	38	18	26	12	63	90	2½:1	12
54"	64	43	18	30	12	70	102	2½:1	12
60"	71	47	18	33	12	77	114	2¼:1	12



MULTIPLE R.C. PIPE CULVERTS



MULTIPLE C.M. PIPE CULVERTS

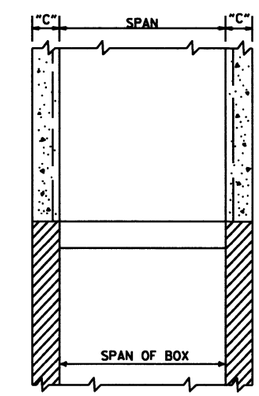
END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS

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

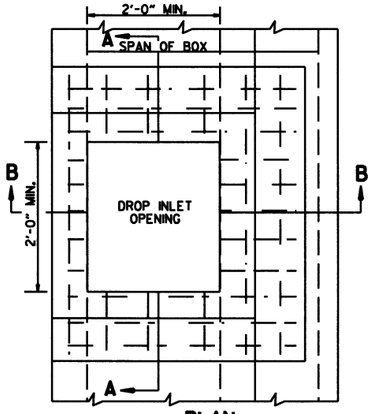
ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

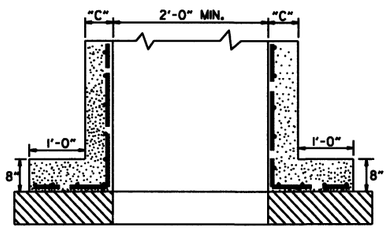
STANDARD DRAWING FES-2



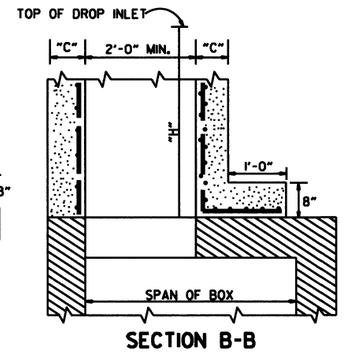
SECTION B-B



PLAN

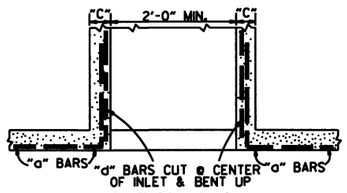


SECTION A-A

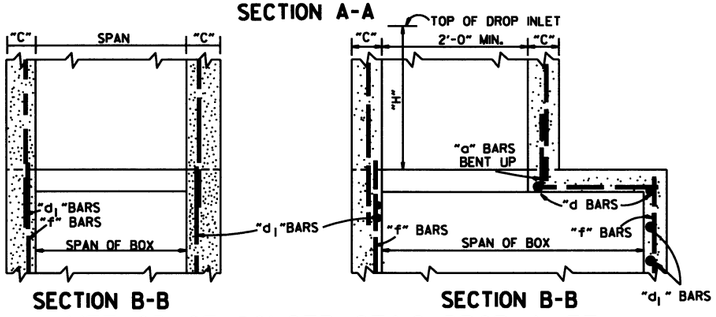


SECTION B-B

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



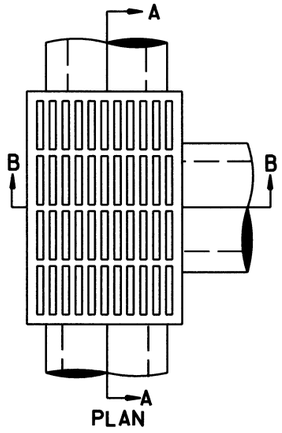
SECTION A-A



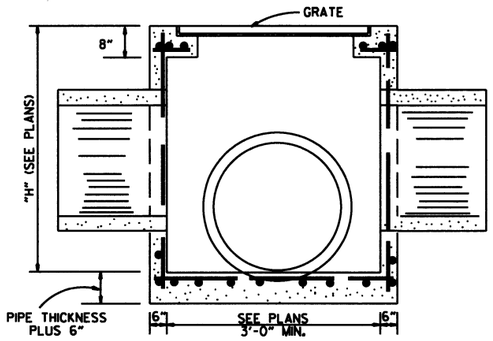
SECTION B-B SECTION B-B

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

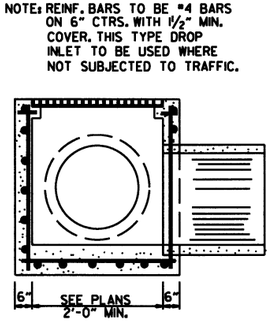
NOTE: "C" DIMENSIONS AND REINFORCING BAR SIZES, SHALL CONFORM TO THOSE SHOWN ON STANDARD DRAWING FOR DROP INLET.



PLAN

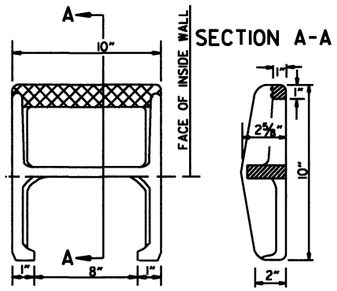


SECTION A-A



SECTION B-B

DROP INLET (TYPE E)

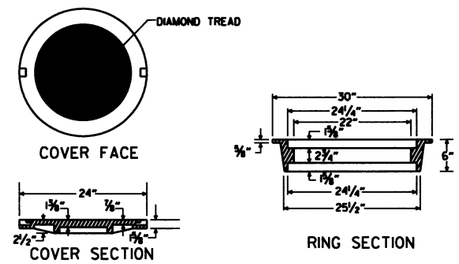


APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

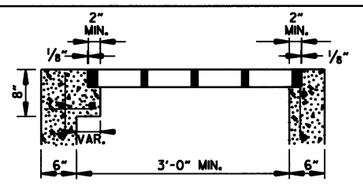
DETAIL OF STEP FOR DROP INLET



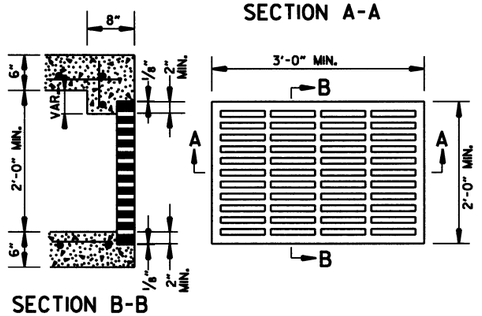
COVER SECTION RING SECTION

APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER



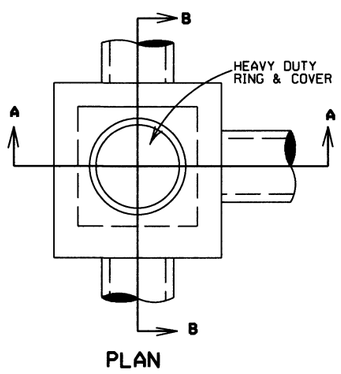
SECTION A-A



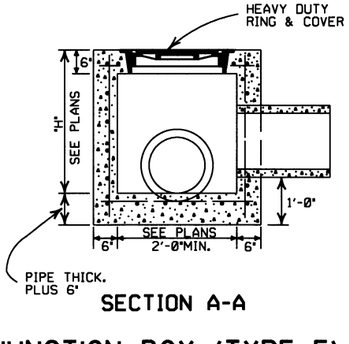
SECTION B-B

APPROXIMATE MINIMUM WATERWAY OPENING = 260 SQ. IN.

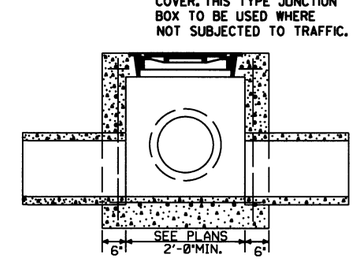
GRATE FOR TYPE E DROP INLET



PLAN

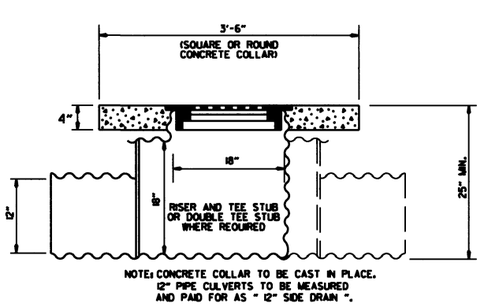


SECTION A-A

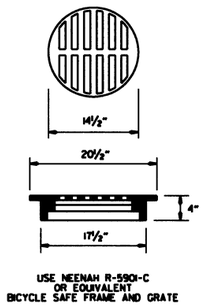


SECTION B-B

JUNCTION BOX (TYPE E)



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



USE NEENAH R-5901-C OR EQUIVALENT BICYCLE SAFE FRAME AND GRATE

DETAIL OF YARD DRAIN

GENERAL NOTES:

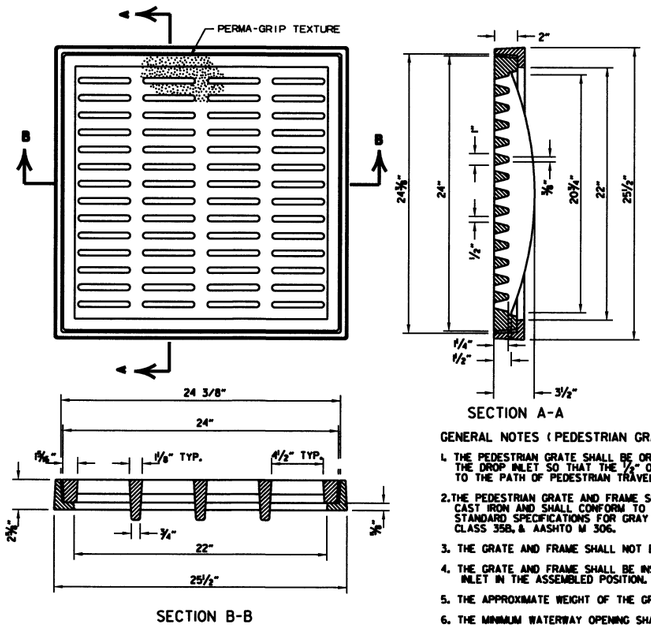
1. ALL EXPOSED CORNERS SHALL BE ¾" CHAMFERED.
2. STEPS SHALL BE INSTALLED ON 16" CENTERS ON ALL INLETS 4'-0" HIGH OR OVER, OR AS APPROVED BY THE ENGINEER.
3. EXPANSION JOINT MATERIAL SHALL BE ¾" PREFORMED FIBER.
4. GRATE OR GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B. GRATE MAY BE USED WITHOUT FRAME.
5. GRATE AND FRAME SHALL NOT BE PAINTED.
6. GRATE SHALL BE BICYCLE SAFE.
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
9. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
10. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

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

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS & JUNCTION BOXES

STANDARD DRAWING FPC-9



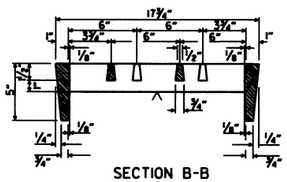
SECTION A-A

SECTION B-B

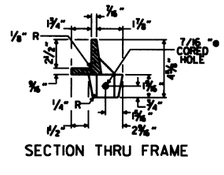
GENERAL NOTES (PEDESTRIAN GRATE & FRAME)

1. THE PEDESTRIAN GRATE SHALL BE ORIENTED IN THE TOP OF THE DROP INLET SO THAT THE ½" OPENINGS ARE PERPENDICULAR TO THE PATH OF PEDESTRIAN TRAVEL.
2. THE PEDESTRIAN GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
3. THE GRATE AND FRAME SHALL NOT BE PAINTED.
4. THE GRATE AND FRAME SHALL BE INSTALLED IN THE DROP INLET IN THE ASSEMBLED POSITION.
5. THE APPROXIMATE WEIGHT OF THE GRATE AND FRAME SHALL BE 2# LBS.
6. THE MINIMUM WATERWAY OPENING SHALL BE 122 SQ. IN.

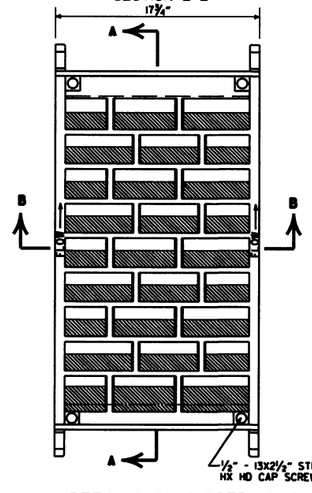
DETAILS OF PEDESTRIAN GRATE AND FRAME

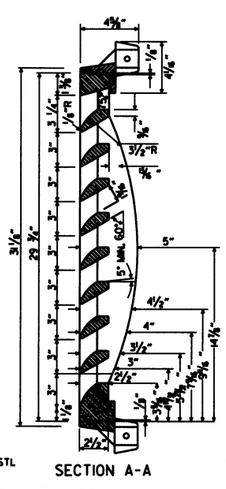


SECTION B-B



SECTION THRU FRAME



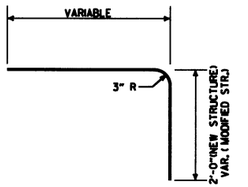


SECTION A-A

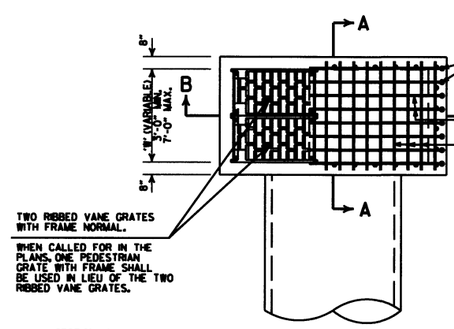
DETAILS OF RIBBED VANE GRATE AND FRAME

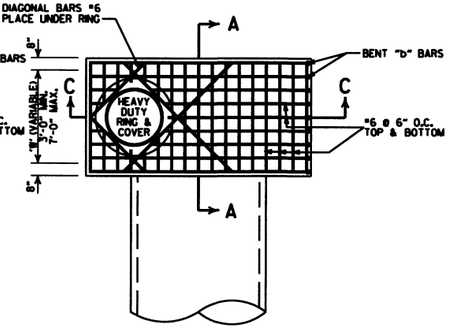
GENERAL NOTES (RIBBED VANE GRATE & FRAME)

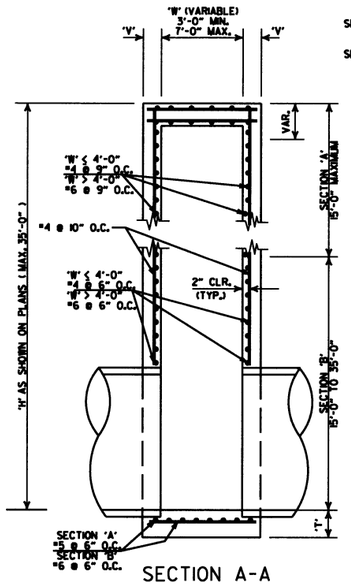
1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.



DETAIL OF BENT "b" BAR

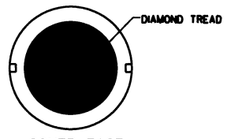




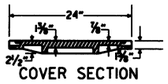


SECTION A-A

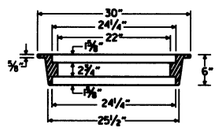
DETAILS OF DROP INLET (TYPE ST)



COVER FACE



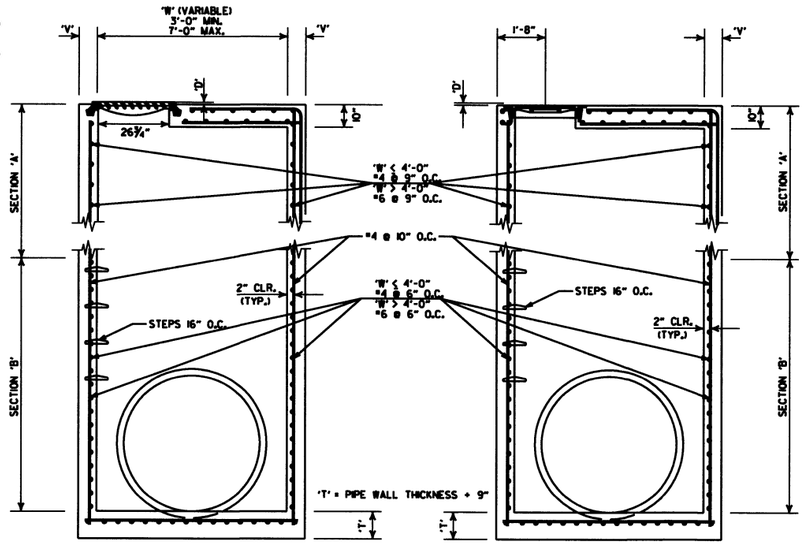
COVER SECTION



RING SECTION

HEAVY DUTY RING & COVER

APPROXIMATE TOTAL WEIGHT = 333 LBS.



SECTION B-B

SECTION C-C

DETAILS OF JUNCTION BOX (TYPE ST)

GENERAL NOTES (TYPE ST DROP INLET & JUNCTION BOX)

1. THE "D" DIMENSION SHALL MATCH THE FINAL LIFT OF ACHM SURFACE COURSE SHOWN IN THE PLANS WHEN ASPHALT PAVING SURROUNDS THE GRATE OR RING COVER, AND SHALL BE 0" AT OTHER INSTALLATIONS.
2. THE STEPS SHALL BE OMITTED WHERE "H" IS LESS THAN 4'-0".
3. ALL EXPOSED CORNERS ARE TO HAVE A ¾" CHAMFER.

GENERAL NOTES (HEAVY DUTY RING & COVER):

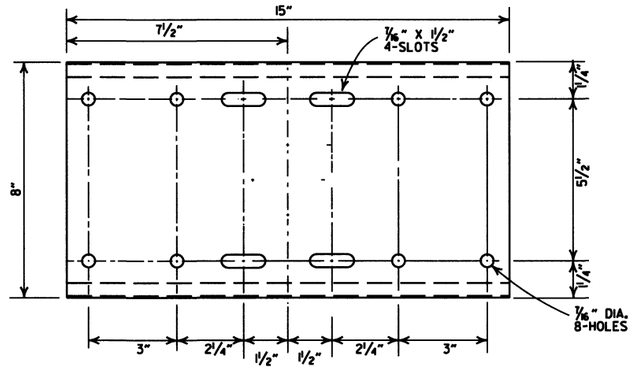
1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
4. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

DATE REVISED	DATE FILMED	DESCRIPTION
7-26-12		REMOVED NOTE 4, REVISED 'T', REVISED BOTTOM SLAB REBAR FOR SECTION 'A', SHOWED REBAR CLEARANCE IN SECTIONS
11-16-01		ADDED NOTE 4
1-12-00		REVISED HEAVY DUTY RING & COVER
5-13-99		ADDED PEDESTRIAN FRAME & GRATE
7-02-98		REMOVED NOTE 5, REV. DIMENSIONS, ADDED HEAVY DUTY RING & COVER ADDED AASHTO REF. REVISED GRATE
10-18-96		REVISED ASTM REF. TO AASHTO
10-1-92		REVISED & REISSUED
8-15-91	8-15-91	REVISED & REISSUED

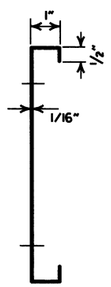
ARKANSAS STATE HIGHWAY COMMISSION

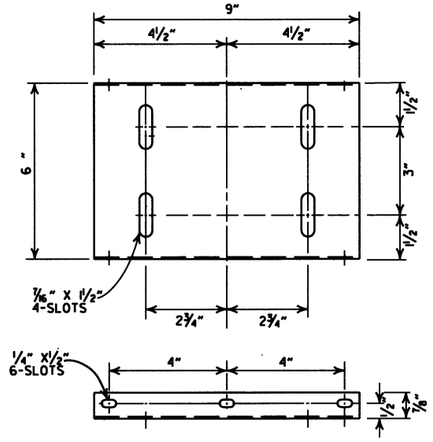
DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)

STANDARD DRAWING FPC-9S

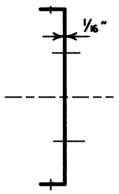


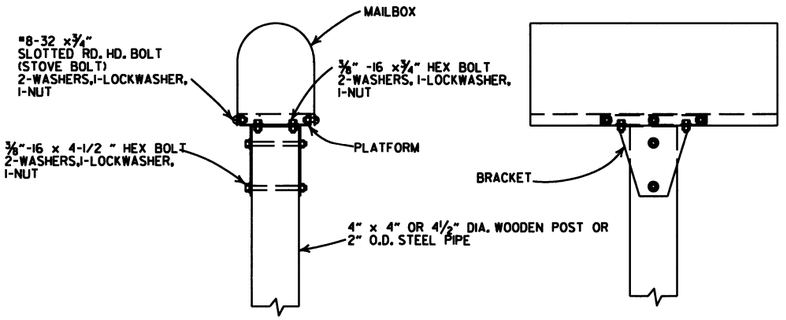
SHELF



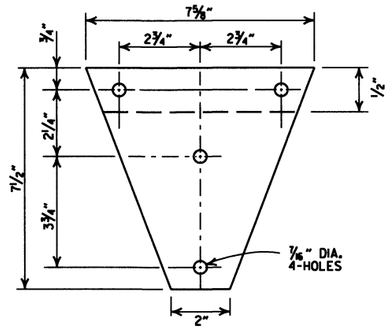


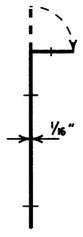
PLATFORM





SINGLE INSTALLATION

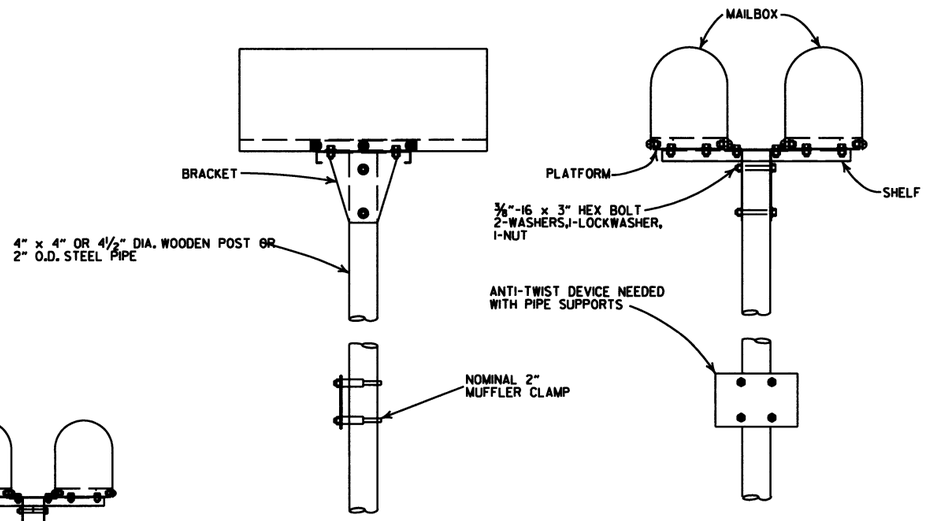




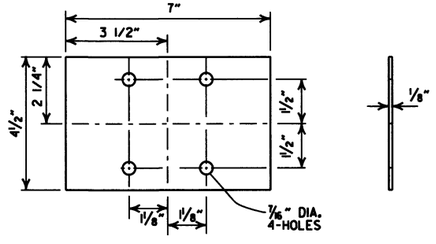
BRACKET

GENERAL NOTES

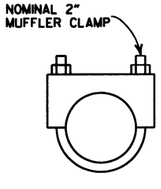
1. MAILBOX POSTS MAY BE WOOD OR METAL. WOOD POSTS SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH SECTION 637.02 OF THE STANDARD SPECIFICATIONS.
2. ANTI-TWIST PLATES SHALL BE USED ONLY ON METAL POSTS.
3. MAILBOX SHELF, BRACKET & PLATFORM SHALL BE GALVANIZED OR PAINTED STEEL, HOWEVER TREATED WOOD MAY BE USED WITH WOODEN POSTS. THE WOODEN SHELF, BRACKET & PLATFORM SHALL BE A MINIMUM OF ⅞" THICK AND SHALL BE ASSEMBLED WITH BOLTS OF THE APPROPRIATE LENGTH WITH SIX 8 X¾" 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 AHTD QUALIFIED PRODUCTS LIST FOR MAILBOX SUPPORTS.



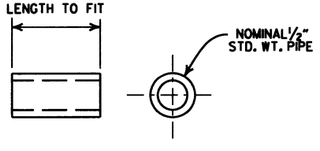
DOUBLE INSTALLATION



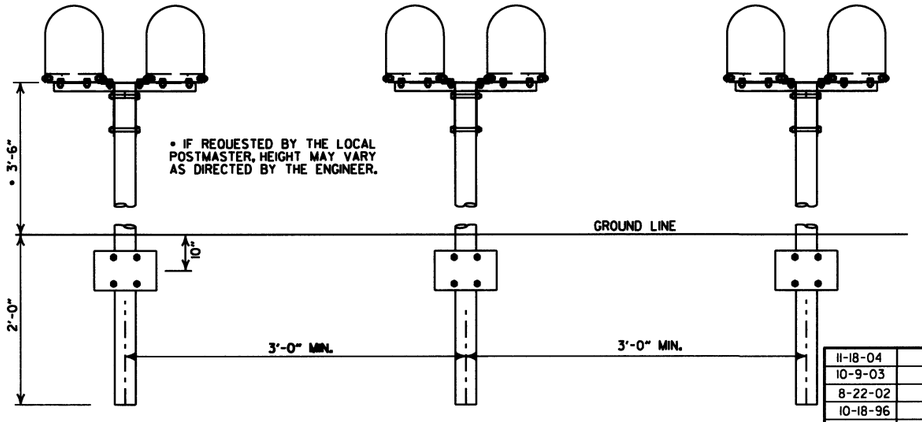
ANTI-TWIST PLATE



CLAMP



SPACER



SPACING FOR MULTIPLE POST 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	20-7-15-88	ISSUED

ARKANSAS STATE HIGHWAY COMMISSION

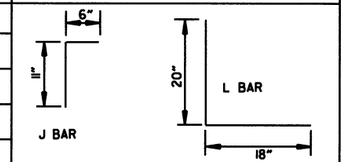
MAILBOX DETAILS

STANDARD DRAWING MB-1

PLAN VIEW

BAR LIST

BAR	NO.	SIZE	LENGTH	BAR BENDING DIAGRAM
H	2	#4	•	
I	•	#4	•	
J	•	#4	1'-5"	
L	•	#4	3'-2"	
M	•	#4	1'-8"	



• NOTE: LENGTH AND NUMBER OF BARS VARIES WITH SIZE OF CULVERT

GENERAL NOTES

WINGS, CURTAIN WALLS AND APRONS SHALL BE TIED TO THE PRECAST CULVERT SECTION BY CASTING BARS IN CULVERT END SECTIONS AS SHOWN OR BY DOWELING AND GROUTING. J BARS AND M BARS SHALL BE EMBEDDED A MINIMUM OF 10" IN PRECAST BOX.

WINGS, FOOTINGS, APRONS AND CURTAIN WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WING DRAWING. STEEL AND CONCRETE QUANTITIES WILL BE ADJUSTED TO FIT THE IN-PLACE WIDTH & HEIGHT OF THE PRECAST CONCRETE BOX CULVERTS.

ALL EXPOSED CORNERS TO HAVE ¾" CHAMFERS.

WINGWALLS AND FOOTINGS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

ALL CONCRETE, REINFORCING STEEL, LEAN GROUT, MEMBRANE WATERPROOFING, DRAINAGE FILL MATERIAL, GEOTEXTILE FILTER FABRIC, LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR INSTALLING PRECAST BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR THE ITEMS AS SPECIFIED IN SECTION 607 OF THE STANDARD SPECIFICATIONS.

LEAN GROUT SHALL CONSIST OF A SAND CEMENT MIXTURE MEETING THE FOLLOWING REQUIREMENTS:
PORTLAND CEMENT SHALL BE TYPE I AND SHALL MEET THE REQUIREMENTS OF AASHTO M 85.
SAND SHALL MEET THE REQUIREMENTS OF FINE AGGREGATE AS SPECIFIED IN SECTION 802.02 OF THE STANDARD SPECIFICATIONS.
THE SAND CEMENT MIXTURE SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF PORTLAND CEMENT PER TON OF MATERIAL MIXTURE.
THE MIXTURE SHALL CONTAIN SUFFICIENT WATER TO HYDRATE THE CEMENTS. THE SAND CEMENT MIXTURE SHALL BE PLACED IN MAXIMUM 8 INCH THICK LIFTS, LOOSE MEASURE, AND THOROUGHLY RODDED AND TAMPED AROUND BOX TO THOROUGHLY FILL ALL VOIDS.

MEMBRANE WATERPROOFING CONFORMING TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO ALL BOX CULVERT JOINTS.

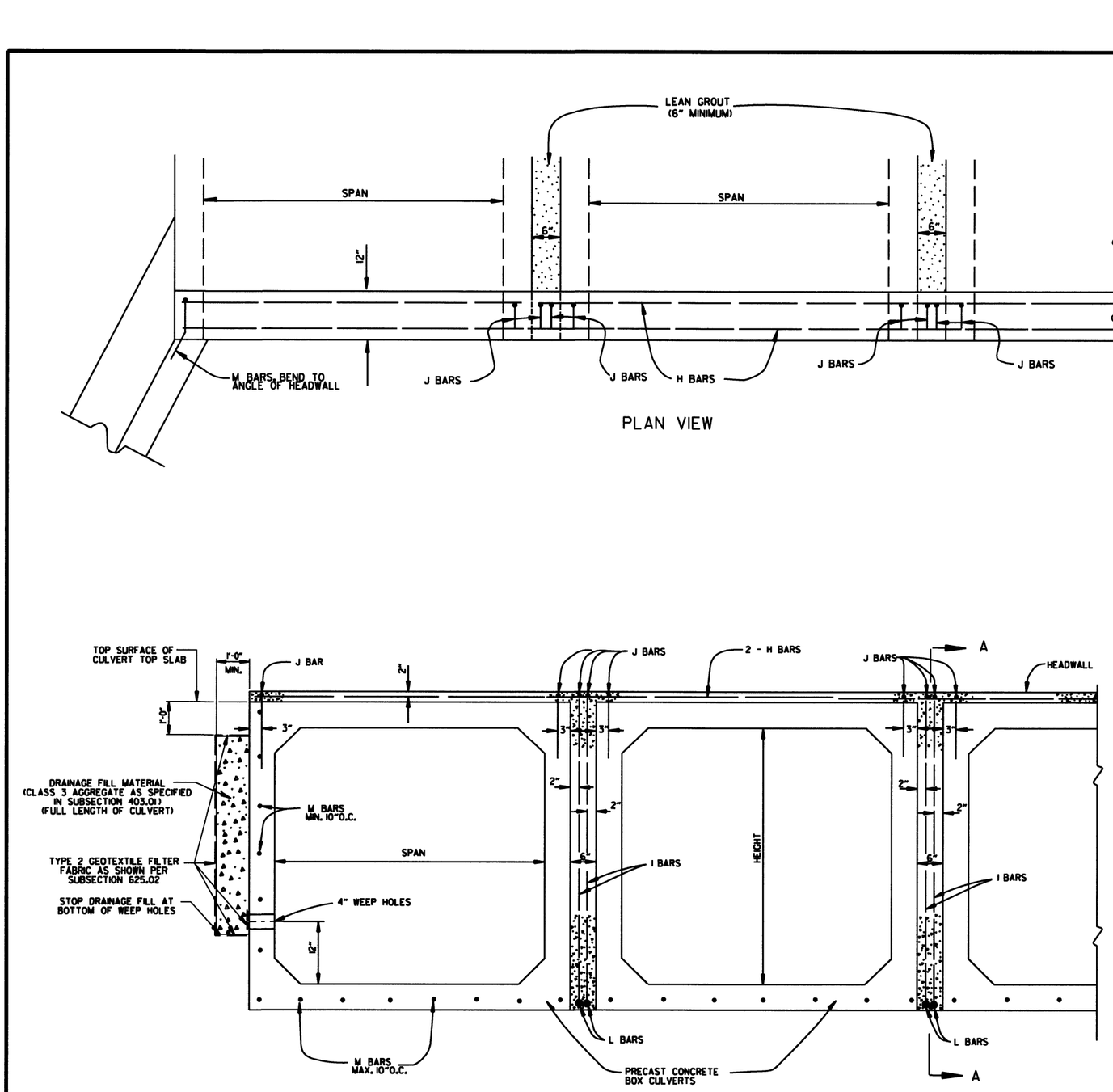
THE MEMBRANE WATERPROOFING WILL BE REQUIRED ON THE TOP EXTERNAL JOINT AND SHALL EXTEND 1 FOOT DOWN THE SIDES OF THE CULVERT.

IN OUTER BARRELS, ONE WEEP HOLE IS REQUIRED IN EXTERIOR WALLS OF EACH PRECAST CULVERT SECTION. WEEP HOLES SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" IN THE ASSEMBLED CULVERT AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE BOTTOM SLAB.

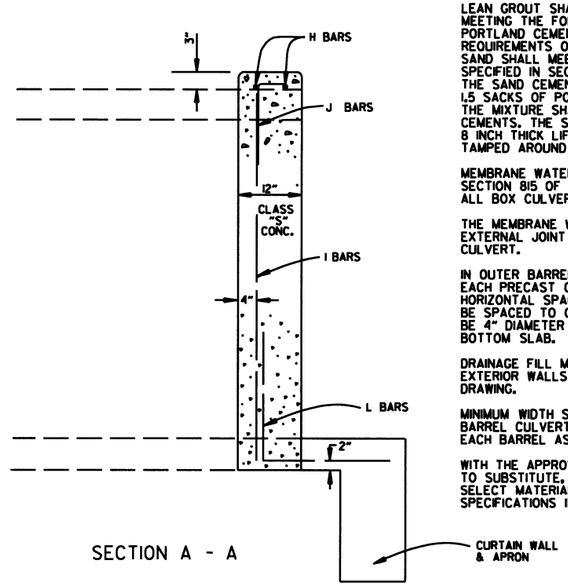
DRAINAGE FILL MATERIAL WITH GEOTEXTILE FABRIC IS REQUIRED AT THE EXTERIOR WALLS OF THE ASSEMBLED CULVERT, SEE DETAILS ON THIS DRAWING.

MINIMUM WIDTH SHALL BE 12" (6" ON EACH SIDE OF JOINT). ON MULTIPLE BARREL CULVERTS, MEMBRANE WATERPROOFING SHALL BE APPLIED TO EACH BARREL AS DESCRIBED ABOVE.

WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE, AT NO ADDITIONAL COST TO THE DEPARTMENT, FLOWABLE SELECT MATERIAL CONFORMING TO SECTION 206 OF THE STANDARD SPECIFICATIONS IN LIEU OF LEAN GROUT.



END VIEW



SECTION A - A

DATE	REVISION	DATE FILMED
1-28-15	REVISED GEOTEXTILE FABRIC PLACEMENT	
12-15-11	ADDED NOTE & DTLS FOR WEEP HOLE AND DRAINAGE FILL	
10-15-09	ADDED GENERAL NOTE	
8-10-05	REVISED SPACING OF "M" BARS	
4-10-03	REVISED GENERAL NOTES	
10-18-96	CORRECTED AASHTO REF.	
10-1-92	ADDED NOTE FOR MEMBRANE WATERPROOFING	
8-15-91	ADDED NOTE FOR LEAN GROUT	
11- 8-90	REVISED FOR 1991 SPECS	
11-30-89	ISSUED: JABE	

ARKANSAS STATE HIGHWAY COMMISSION

PRECAST CONCRETE BOX CULVERTS

STANDARD DRAWING PBC-1

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	AHTD NOMINAL	AASHTO M 206	AHTD 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	43⅜	44	26⅝	27
42	51⅛	51	31⅝	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	87⅛	87
120	154	154	96⅞	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.

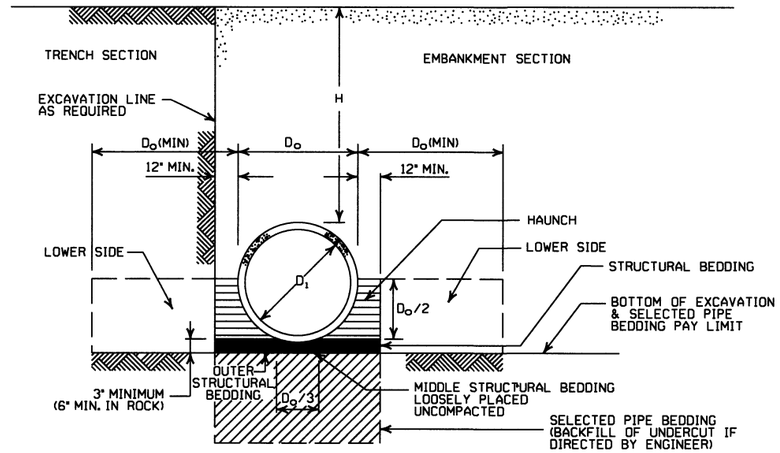
- LEGEND -

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 STATE HIGHWAY AND TRANSPORTATION DEPARTMENT 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.

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.

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 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.

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

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1

CORRUGATED STEEL PIPE (ROUND)

PIPE DIAMETER (INCHES)	① MINUMUM 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
2⅔ INCH BY ½ 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)	①MINUMUM 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
		2⅔ INCH BY ½ 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

CONSTRUCTION SEQUENCE

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

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

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

③ SM-3 WILL NOT BE ALLOWED.

EQUIVALENT METAL THICKNESSES AND GAUGES

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

CORRUGATED METAL PIPE ARCHES

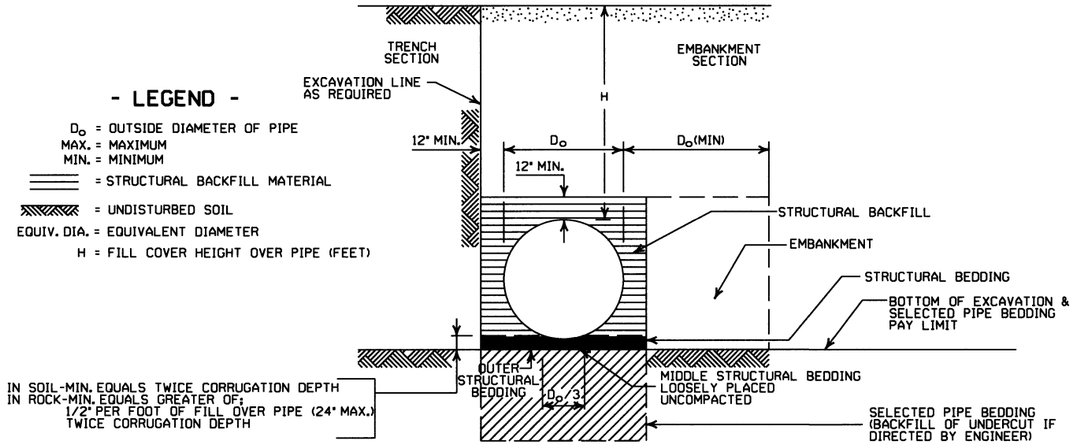
EQUIV. DIA. (INCHES)	PIPE DIMENSION SPAN X RISE (INCHES)	MINUMUM CORNER RADIUS (INCHES)	STEEL			ALUMINUM		
			MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)	MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)
				INSTALLATION	INSTALLATION		INSTALLATION	INSTALLATION
				TYPE 1	TYPE 1		TYPE 1	TYPE 1
			2 ⅔ INCH BY ½ INCH CORRUGATION RIVETED, WELDED, OR HELICAL LOCK-SEAM			2 ⅔ INCH BY ½ 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	3½	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	0.164	3	15
66	77x52	8	0.168	3	15			
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			

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

② WHERE THE STANDARD 2 2/3"x ½" CORRUGATION AND GAUGE IS SPECIFIED FOR A GIVEN DIAMETER, A PIPE OF THE SAME DIAMETER WITH A 3" x 1" OR 5" x 1" CORRUGATION MAY BE SUBSTITUTED, PROVIDING IT IS GAUGED FOR A FILL HEIGHT CONDITION EQUAL TO OR GREATER THAN THE MAXIMUM FILL HEIGHT CONDITION FOR THE SPECIFIED GAUGE AND CORRUGATION.

- LEGEND -

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



EMBANKMENT AND TRENCH INSTALLATIONS

1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. INSTALLATION TYPE 1 OR 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE (ROUND).
3. INSTALAALTION TYPE 1 SHALL BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 2⅔" X ½" 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 STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. METAL PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. METAL PIPE CULVERT MATERIALS AND INSTALLATIONS SHALL CONFORM TO SECTION 606 AND JOB SPECIAL PROVISION "METAL PIPE".
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
9. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

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

ARKANSAS STATE HIGHWAY COMMISSION

METAL PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCM-1

INSTALLATION TYPE	•• MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	•SELECTED MATERIALS (CLASS SM-1, SM-2 OR SM-4)

• AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.

SM3 WILL NOT BE ALLOWED.

•• STRUCTURAL BEDDING MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1INCH. STRUCTURAL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES LARGER THAN 1.50 INCH IN GREATEST DIMENSION, OR FROZEN LUMPS.

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 HDPE PIPE.

MULTIPLE INSTALLATION OF HIGH DENSITY POLYETHYLENE PIPES

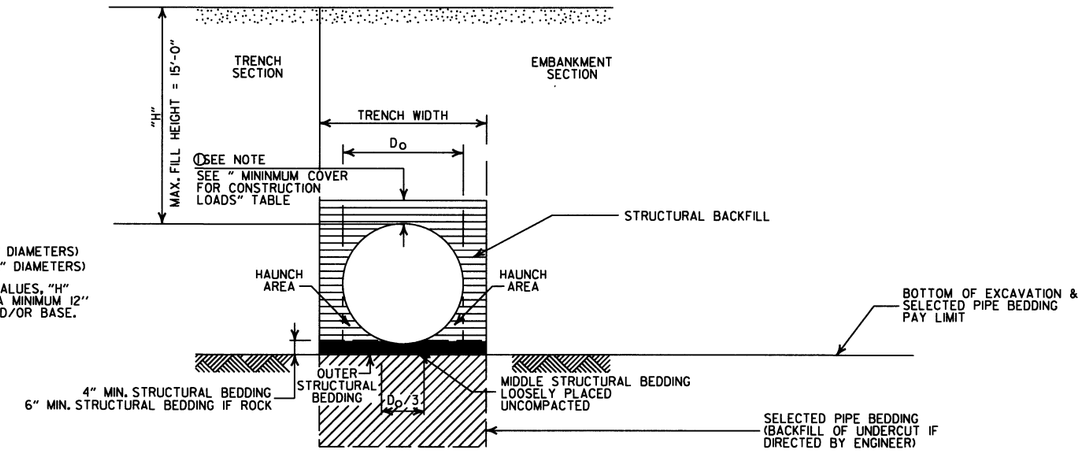
PIPE DIAMETER	CLEAR DISTANCE BETWEEN PIPES
18"	1'-6"
24"	2'-0"
30"	2'-6"
36"	3'-0"
42"	3'-6"
48"	4'-0"

MINIMUM TRENCH WIDTH BASED ON FILL HEIGHT "H"

PIPE DIAMETER	TRENCH WIDTH (FEET)	
	"H" < 10'-0"	"H" >OR= 10'-0"
18"	4'-6"	4'-6"
24"	5'-0"	6'-0"
30"	5'-6"	7'-6"
36"	6'-0"	9'-0"
42"	7'-0"	10'-6"
48"	8'-0"	12'-0"

①NOTE:
18" MIN. (18" - 30" DIAMETERS)
24" MIN. (36" - 48" DIAMETERS)

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



TYPE 2 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.

MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIAMETER	② MIN. COVER (FEET) FOR INDICATED CONSTRUCTION LOADS			
	18.0-50.0 (KIPS)	50.0-75.0 (KIPS)	75.0-110.0 (KIPS)	110.0-175.0 (KIPS)
36" OR LESS	2'-0"	2'-6"	3'-0"	3'-0"
42" OR GREATER	3'-0"	3'-0"	3'-6"	4'-0"

②MINIMUM COVER SHALL BE MEASURED FROM TOP OF PIPE TO TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE. THE SURFACE SHALL BE MAINTAINED.

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. THE STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8". THE LAYERS SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY TO THE ELEVATION OF THE MINIMUM COVER.
5. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

GENERAL NOTES

1. PIPE SHALL CONFORM TO AASHTO M294, TYPE S. INSTALLATION SHALL CONFROM TO JOB SPECIAL PROVISION "PLASTIC PIPE" AND SECTION 606 OF THE STANDARD SPECIFICIATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
2. PLASTIC PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PLUS A SUFFICIENT WIDTH TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIAL.
4. 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.
5. 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."
6. 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 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."
7. FOR PIPE TYPES THAT ARE NOT SMOOTH ON THE OUTSIDE (CORRUGATED OR PROFILE WALLS), BACKFILL GRADATIONS SHOULD BE SELECTED THAT WILL PERMIT THE FILLING OF THE CORRUGATION OR PROFILE VALLEY.
8. HIGH DENSITY POLYETHYLENE PIPES OF DIAMETERS OTHER THAN SHOWN WILL NOT BE ALLOWED.
9. JOINTS FOR HDPE PIPE SHALL MEET THE REQUIREMENTS FOR SOIL TIGHTNESS AS SPECIFIED IN AASHTO SECTION 26.4.2.4 AND 30.4.2 "AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS." JOINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

- LEGEND -

H = FILL HEIGHT (FT.)
Ø = OUTSIDE DIAMETER OF PIPE
MAX. = MAXIMUM
MIN. = MINIMUM

= STRUCTURAL BACKFILL MATERIAL

= UNDISTURBED SOIL

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED GENERAL NOTES & MINIMUM COVER NOTE	
11-17-10	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)

STANDARD DRAWING PCP-1

INSTALLATION TYPE	•• MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	•SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4)

• AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.

SM3 WILL NOT BE ALLOWED.

•• STRUCTURAL BEDDING MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1 INCH. STRUCTURAL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES LARGER THAN 1.50 INCH IN GREATEST DIMENSION, OR FROZEN LUMPS.

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 PVC PIPE.

MINIMUM TRENCH WIDTH BASED ON FILL HEIGHT "H"

PIPE DIAMETER	TRENCH WIDTH (FEET)	
	"H" < 10'-0"	"H" >OR= 10'-0"
18"	4'-6"	4'-6"
24"	5'-0"	6'-0"
30"	5'-6"	7'-6"
36"	6'-0"	9'-0"

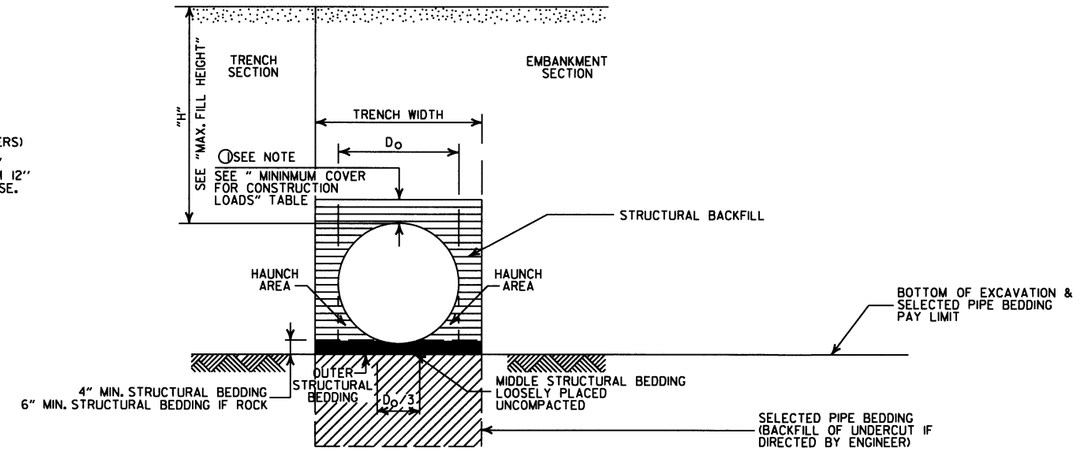
MULTIPLE INSTALLATION OF PVC PIPES

PIPE DIAMETER	CLEAR DISTANCE BETWEEN PIPES
18"	1'-6"
24"	2'-0"
30"	2'-6"
36"	3'-0"

MAXIMUM FILL HEIGHT BASED ON STRUCTURAL BACKFILL

PIPE DIAMETER	"H"
18"	45'-0"
24"	45'-0"
30"	40'-0"
36"	40'-0"

① NOTE:
12" MIN. (18" - 36" DIAMETERS)
MINIMUM COVER VALUE, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.



TYPE 2 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.

MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIAMETER	② MIN. COVER (FEET) FOR INDICATED CONSTRUCTION LOADS			
	18.0-50.0 (KIPS)	50.0-75.0 (KIPS)	75.0-110.0 (KIPS)	110.0-175.0 (KIPS)
18" THRU 36"	2'-0"	2'-6"	3'-0"	3'-0"

②MINIMUM COVER SHALL BE MEASURED FROM TOP OF PIPE TO TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE. THE SURFACE SHALL BE MAINTAINED.

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. THE STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8". THE LAYERS SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY TO THE ELEVATION OF THE MINIMUM COVER.
5. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

GENERAL NOTES

1. PIPE SHALL CONFORM TO ASTM F949, CELL CLASS 12454. INSTALLATION SHALL CONFROM TO JOB SPECIAL PROVISION "PLASTIC PIPE" AND SECTION 606 OF THE STANDARD SPECIFICIATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
2. PLASTIC PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PLUS A SUFFICIENT WIDTH TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIAL.
4. 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.
5. 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."
6. 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 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."
7. FOR PIPE TYPES THAT ARE NOT SMOOTH ON THE OUTSIDE (CORRUGATED OR PROFILE WALLS), BACKFILL GRADATIONS SHOULD BE SELECTED THAT WILL PERMIT THE FILLING OF THE CORRUGATION OR PROFILE VALLEY.
8. PVC PIPES OF DIAMETERS OTHER THAN SHOWN WILL NOT BE ALLOWED.
9. JOINTS FOR PVC PIPE SHALL MEET THE REQUIREMENTS FOR SOIL TIGHTNESS AS SPECIFIED IN AASHTO SECTION 26.4.2.4 AND 30.4.2 "AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS." JOINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

- LEGEND -

H = FILL HEIGHT (FT.)
D_O = OUTSIDE DIAMETER OF PIPE
MAX. = MAXIMUM
MIN. = MINIMUM

= STRUCTURAL BACKFILL MATERIAL

= UNDISTURBED SOIL

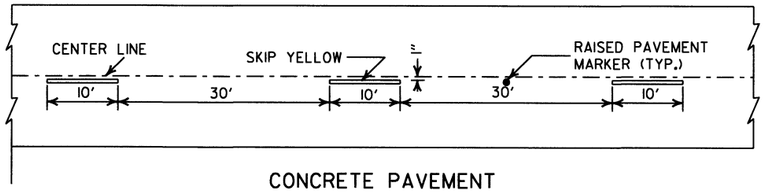
DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REV GENERAL NOTES & MINIMUM COVER NOTE; DELETED SM3 MATERIAL	
11-17-10	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

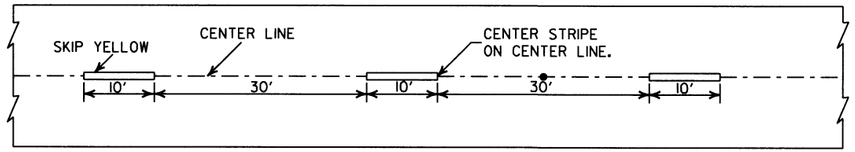
PLASTIC PIPE CULVERT (PVC F949)

STANDARD DRAWING PCP-2

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.

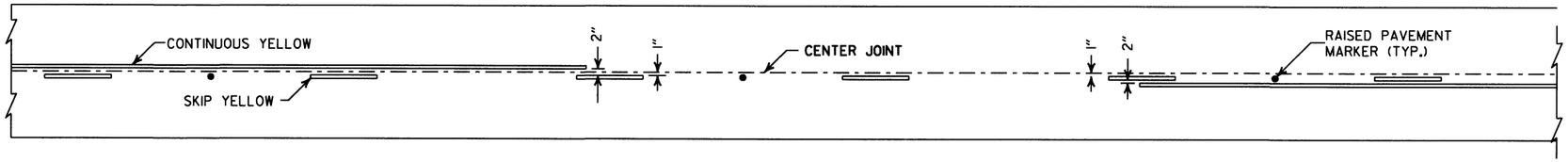


CONCRETE PAVEMENT

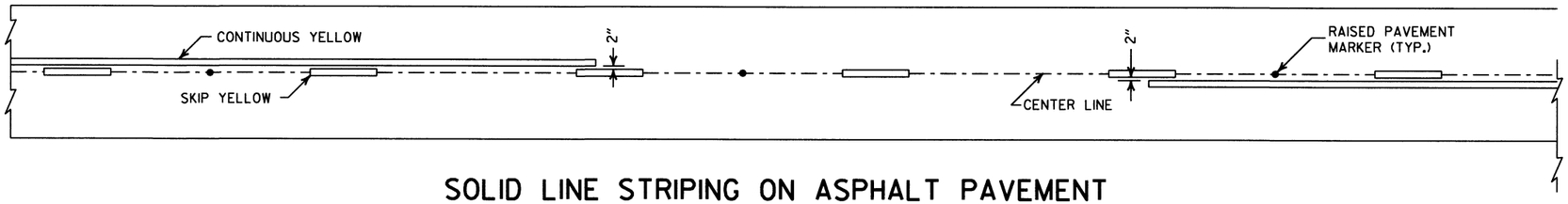


ASPHALT PAVEMENT

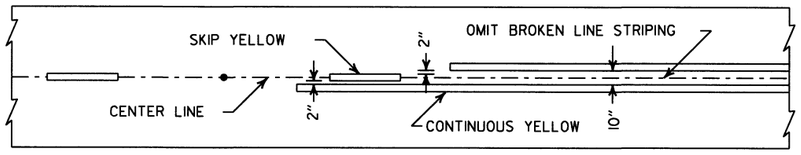
BROKEN LINE STRIPING



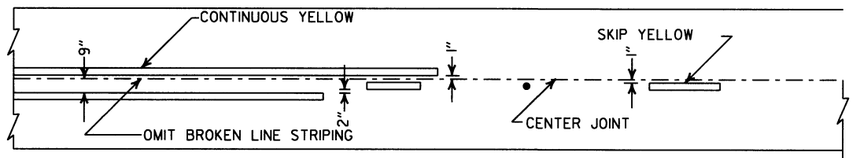
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT

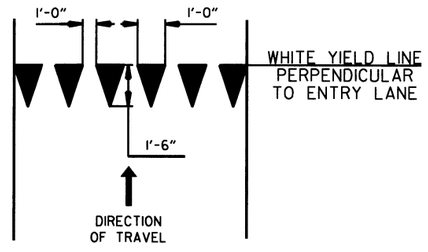


ASPHALT PAVEMENT

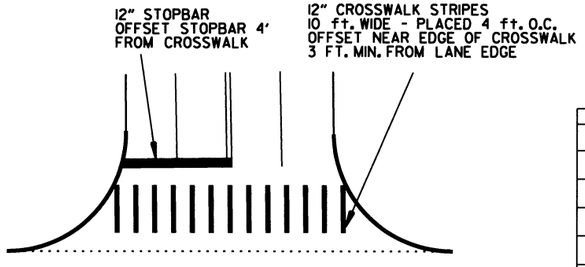


CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

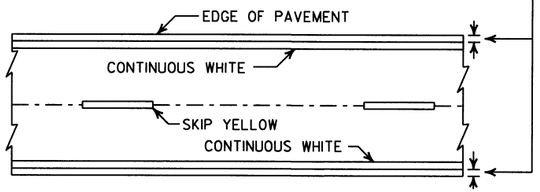


YIELD LINE DETAIL



CROSSWALK AND STOPBAR DETAILS

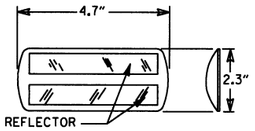
2" FOR ASPHALT OR CONCRETE PAVEMENT
6" FOR BITUMINOUS SURFACE TREATMENT



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



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 AHTD QUALIFIED PRODUCTS LIST.

DETAIL OF STANDARD RAISED PAVEMENT MARKERS

DATE	REVISION	FILMED
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

ARKANSAS STATE HIGHWAY COMMISSION

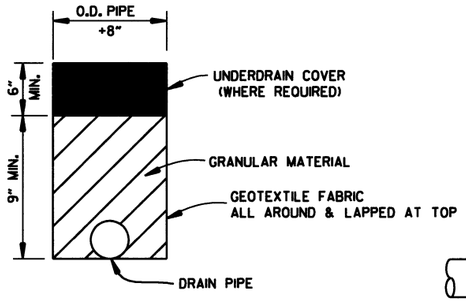
PAVEMENT MARKING DETAILS

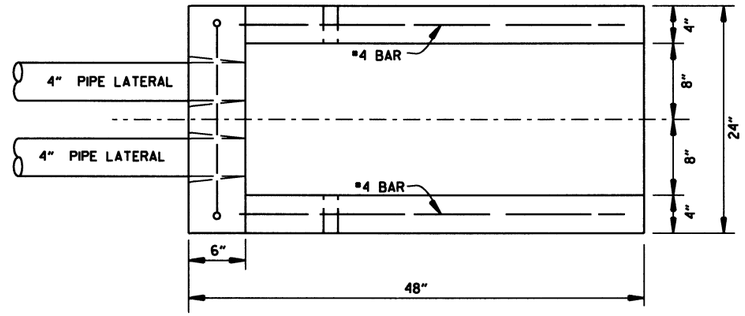
STANDARD DRAWING PM-1

NOTE:

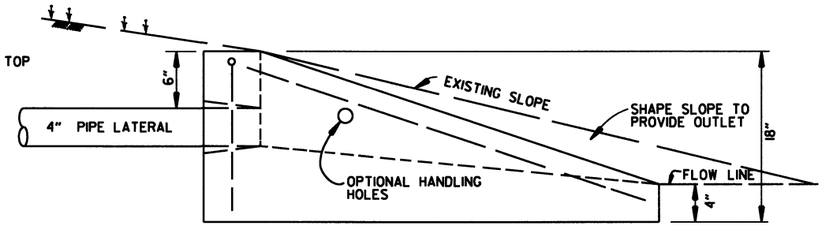
1. UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE UNDERDRAIN COVER SHALL BE THOROUGHLY COMPACTED EARTH AND SHALL BE SUBSIDIARY TO PIPE UNDERDRAIN.

2. GRANULAR MATERIAL SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. LAP FABRIC 12" OR THE WIDTH OF THE TRENCH AT THE TOP.

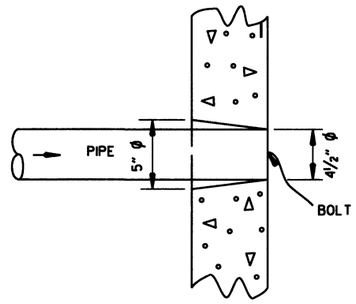




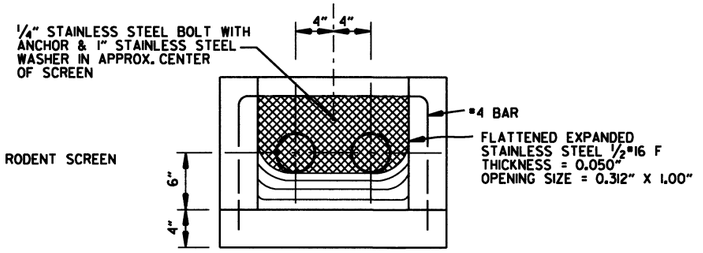
PLAN VIEW



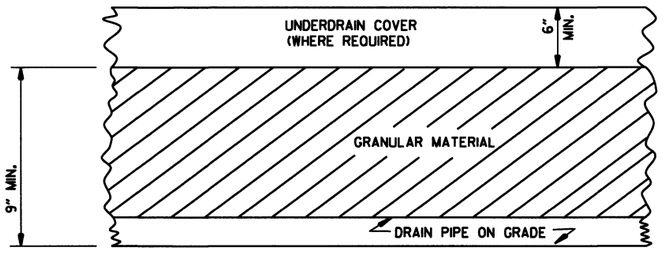
SIDE VIEW



DETAIL OF HOLE FOR 4" PIPE

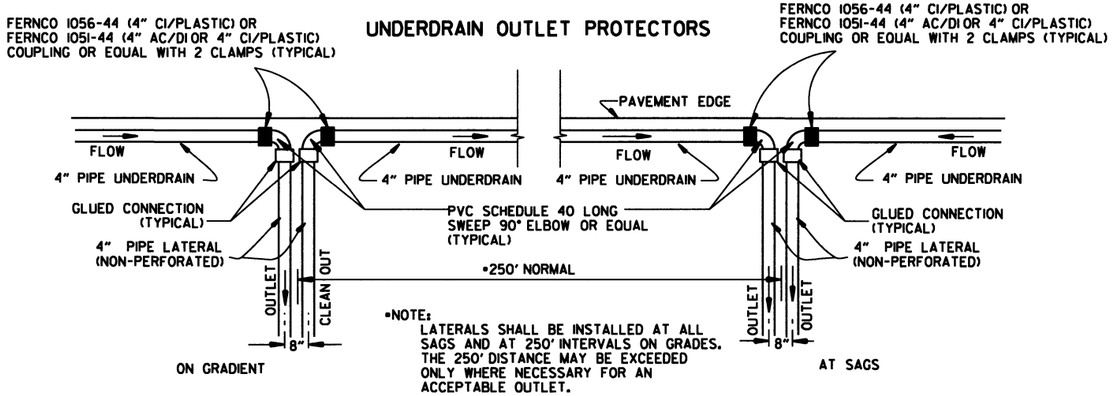


FRONT VIEW
(DETAIL OF RODENT SCREEN)



DETAILS OF PIPE UNDERDRAIN

UNDERDRAIN OUTLET PROTECTORS



DETAIL OF PIPE UNDERDRAIN LATERALS WHEN PLACED ALONG PAVEMENT EDGE

NOTE: PVC PIPE FOR LATERALS SHALL MEET THE REQUIREMENTS OF ASTM D 1785 (LATEST REVISION) FOR SCHEDULE 40 PIPE.

NOTES FOR PIPE UNDERDRAINS

1. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 625 FOR TYPE 1. PAYMENT FOR GEOTEXTILE FABRIC AND GRANULAR FILTER MATERIAL SHALL BE INCLUDED IN THE PRICE BID PER LIN. FT. FOR "4" PIPE UNDERDRAINS" IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

2. 4" NON-PERFORATED SCHEDULE 40 PVC PIPE LATERALS WITH OUTLET PROTECTORS SHALL BE INSTALLED AS SHOWN HEREON. LATERALS WILL BE MEASURED AND PAID FOR AS "4" PIPE UNDERDRAINS." UNDERDRAIN OUTLET PROTECTORS WILL BE MEASURED AND PAID FOR BY THE UNIT IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

3. EXISTING 4" PIPE UNDERDRAINS MAY BE CONNECTED TO PROPOSED DROP INLETS OR EXTENDED WHERE DIRECTED BY THE ENGINEER. PAYMENT FOR CONNECTING TO DROP INLETS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "4" PIPE UNDERDRAINS."

4. THE LOCATION OF ALL LATERALS SHALL BE MARKED WITH 4" X 12" PERMANENT PAVEMENT MARKING TAPE (TYPE III WHITE) AT THE OUTSIDE EDGE OF THE SHOULDER, PLACED TRANSVERSE TO TRAFFIC. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

5. PAYMENT FOR THE RODENT SCREEN SHALL BE INCLUDED IN THE PRICE BID PER EACH FOR "UNDERDRAIN OUTLET PROTECTORS."

6. ANY EXISTING UNDERDRAINS THAT INTERFERE WITH INSTALLATION OF THE NEW UNDERDRAIN SYSTEM SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS. EXISTING UNDERDRAIN OUTLET PROTECTORS SHALL BE REMOVED UNDER THE ITEM "REMOVAL AND DISPOSAL OF UNDERDRAIN OUTLET PROTECTORS."

7. AT LOCATIONS WHERE A SINGLE LATERAL IS USED THE CONTRACTOR SHALL HAVE THE FOLLOWING OPTIONS: 1. INSTALL OUTLET PROTECTOR AS SHOWN ON STANDARD DRAWING PU-1 AND GROUT THE UNUSED HOLE OR 2. INSTALL AN OUTLET PROTECTOR WITH A SINGLE HOLE.

DATE	REVISION	DATE FILMED
12-8-16	ADDED NOTES FOR PIPE UNDERDRAINS, REVISED RODENT SCREEN DETAIL AND NOTES, REMOVED NOTE 1 FOR GRANULAR MATERIAL, ADDED NOTE FOR GEOTEXTILE FABRIC	
4-10-03	REVISED NOTE 3	
1-12-00	REVISED DETAIL OF UNDERDRAIN LATERALS	
11-18-98	REVISED NOTE	
10-18-96	REVISED MIN. DEPTH & GEOTEXTILE FABRIC	
4-26-96	ADDED LATERAL NOTE; 5½" TO 5"	
11-22-95	REVISED LATERALS	
7-20-95	REVISED LATERALS & ADDED NOTE	
11- 3-94	REVISED FOR DUAL LATERALS	11- 3-94
10- 1-92	SUBSTITUTED GEOTEXTILE	10- 1-92
8-15-91	ADDED POLYEDTHYLENE PIPE	8-15-91
11- 8-90	DELETED ALTERNATE NOTE	11- 8-90
1-25-90	ADDED 4" SNAP ADAPTER	1-25-90
11-30-89	DEL. (SUBGRADE); ADDED (WHERE REQUIRED)	11-30-89
7-15-88	ISSUED P.L.M.	647-7-15-88

ARKANSAS STATE HIGHWAY COMMISSION

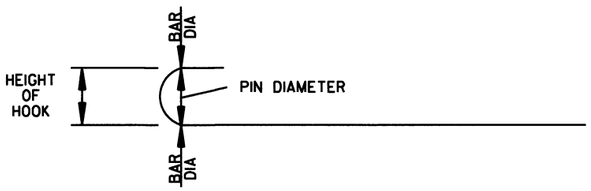
DETAILS OF PIPE UNDERDRAIN

STANDARD DRAWING PU-1

STEEL FABRICATION: REINFORCING STEEL FABRICATION SHALL CONFORM TO THE DIMENSIONS LISTED IN THE TABLE BELOW:

BAR SIZE	PIN DIAMETER	HOOK EXTENSION "K"
3	2 1/4"	4"
4	3 "	4 1/2"
5	3 3/4"	5"
6	4 1/2"	6"
7	5 1/4"	7"
8	6"	8"

IF THE OVERALL HEIGHT OF THE HOOK (SEE DIAGRAM BELOW) FOR A "b", "b1", "b2" or "b3" BENT BAR IS GREATER THAN THE CORRESPONDING TOP OR BOTTOM SLAB THICKNESS, LESS 2 3/4 INCHES, EACH BENT BAR SHALL BE REPLACED WITH ONE HOOKED BAR AND ONE STRAIGHT BAR, USING LENGTHS AS SHOWN IN THE TABLE BELOW. THE TWO BARS SHALL BE THE SAME DIAMETER AS, AND PLACED AT THE SAME SPACING AS, THE "b", "b1", "b2" OR "b3" BENT BARS THEY REPLACE.



NOTE: DIMENSIONS OF BARS ARE MEASURED OUT TO OUT OF BARS.

OVERALL HEIGHT OF HOOKED BAR DIAGRAM

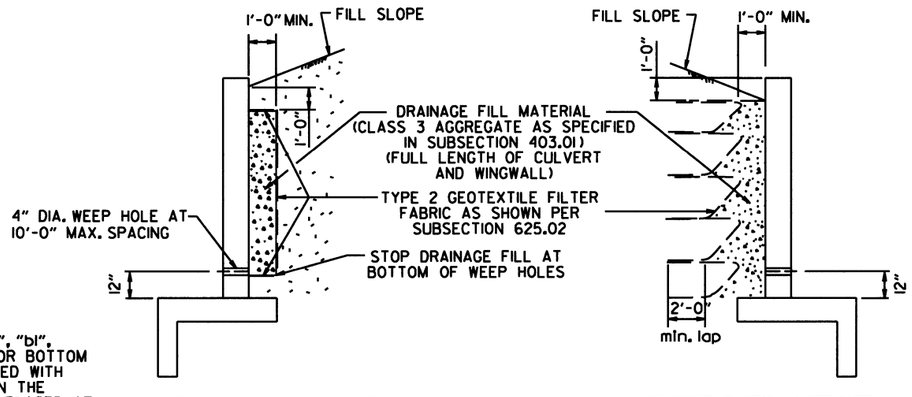
THE HOOKED BARS SHALL BE PLACED IN THE BOTTOM OF THE TOP SLAB AND THE TOP OF THE BOTTOM SLAB. THE STRAIGHT BARS SHALL BE PLACED IN THE TOP OF THE TOP SLAB AND THE BOTTOM OF THE BOTTOM SLAB. SEE TABLE BELOW FOR LENGTHS OF REPLACEMENT HOOKED AND STRAIGHT BARS.

FOR SKEWED CULVERTS, THE REPLACEMENT STRAIGHT BAR MAY HAVE TO BE CUT IN FIELD TO FIT.

REPLACEMENT BAR LENGTHS TABLE

BAR SIZE: "b", "b1", "b2" OR "b3"	LENGTH OF HOOKED BAR	LENGTH OF STRAIGHT BAR
#4	L + 1' - 0"	SEE "c" BAR LENGTH
#5	L + 1' - 2"	SEE "c" BAR LENGTH
#6	L + 1' - 4"	SEE "c" BAR LENGTH
#7	L + 1' - 8"	SEE "c" BAR LENGTH
#8	L + 1' - 10"	SEE "c" BAR LENGTH
#9	L + 2' - 6"	SEE "c" BAR LENGTH

L = "OW" - 3 INCHES



WINGWALL & CULVERT DRAINAGE DETAIL

REINFORCED CONCRETE BOX CULVERT GENERAL NOTES

CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI.

REINFORCING STEEL SHALL BE AASHTO M 31 OR M 53, GRADE 60.

CONSTRUCTION AND MATERIALS FOR WINGWALL & CULVERT DRAINAGE, INCLUDING WEEP HOLES AND GRANULAR MATERIAL, SHALL BE SUBSIDIARY TO THE BID ITEM, "CLASS S CONCRETE".

MEMBRANE WATERPROOFING SHALL CONFORM TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS.

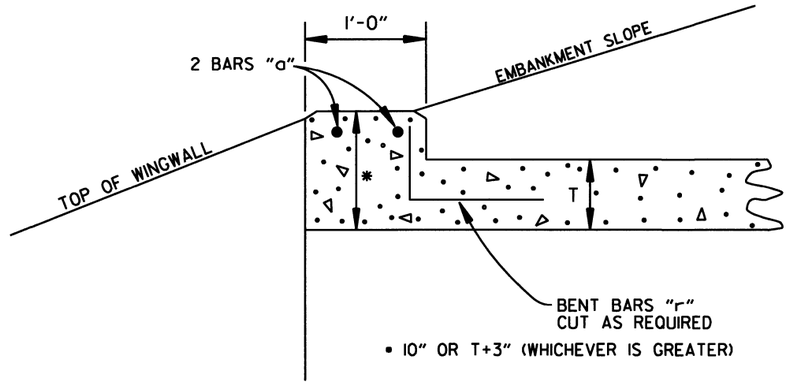
MEMBRANE WATERPROOFING SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS IN THE TOP SLAB AND THE SIDEWALLS OF R.C. BOX CULVERTS AS DIRECTED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THIS ITEM, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS BID FOR THE R.C. BOX CULVERT.

REINFORCING STEEL TOLERANCES: THE TOLERANCES FOR REINFORCING STEEL SHALL MEET THOSE LISTED IN "MANUAL OF STANDARD PRACTICE" PUBLISHED BY CONCRETE REINFORCING STEEL INSTITUTE (CRSI) EXCEPT THAT THE TOLERANCE FOR TRUSS BARS SUCH AS FIGURE 3 ON PAGE 7-4 OF THE CRSI MANUAL SHALL BE MINUS ZERO TO PLUS 1/2 INCH.

WEEP HOLES IN BOX CULVERT WALLS SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE BOTTOM SLAB.

WEEP HOLES IN WINGWALLS SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THERE SHALL BE A MINIMUM OF TWO (2) WEEP HOLES IN EACH WINGWALL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE WINGWALL FOOTING.

THE REQUIREMENTS SHOWN ON THIS DRAWING SHALL SUPERCEDE THE CORRESPONDING REQUIREMENTS ON ALL REINFORCED CONCRETE BOX CULVERT STANDARD DRAWINGS.



NOTE: FOR ALL SKEWED R.C. BOX CULVERTS THE LENGTH "K" OF THE MODIFIED HEADWALL SHALL BE EQUAL TO THE ROADWAY LENGTH "RL". THE ENDS OF THE HEADWALL SHALL BE CONSTRUCTED PARALLEL TO THE SKEW ANGLE OF THE BOX CULVERT.

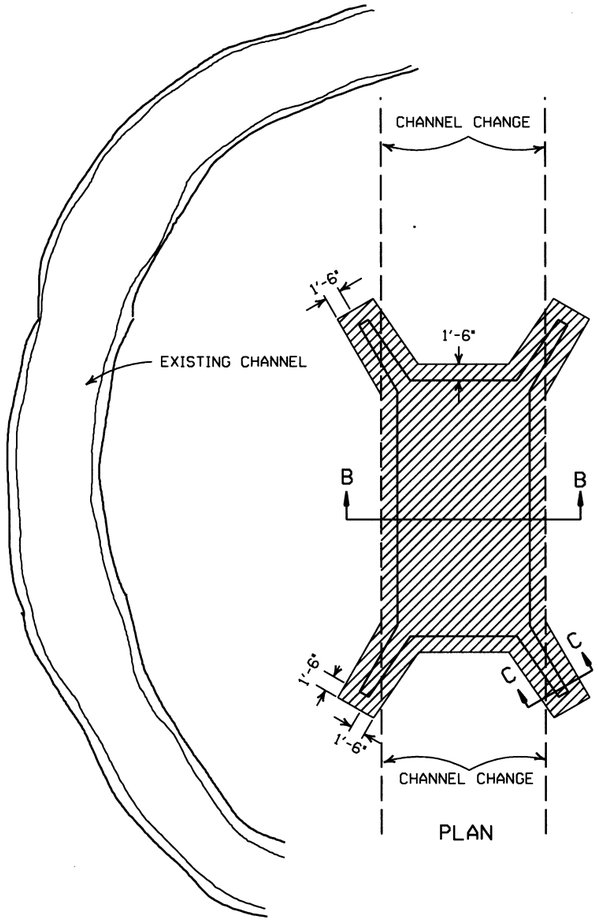
R.C. BOX CULVERT HEADWALL MODIFICATIONS

DATE	REVISION	DATE FILMED
7/26/12	REV. DRAINAGE FILL MATERIAL & DETAIL	
12/15/11	REQUIRE WEEP HOLES IN BOX CULVERT WALLS	
5-25-06	REV. GEN. NOTES AND DETAILS FOR WEEP HOLES; BAR DIAGRAM	
11-16-01	ADDED WINGWALL DRAINAGE DETAIL/EDITED GEN. NOTES	
10-18-96	REV. ASTM REF. TO AASHTO & ADDED BAR DIAGRAM	
10-12-95	MOVED SOLID SODDING DETAIL TO RCB-2	
6-2-94	ADDED SOLID SODDING PLAN DETAIL	
8-5-93	REVISED PIN DIAMETER TO SPECS.	
8-15-91	DRAWN AND ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

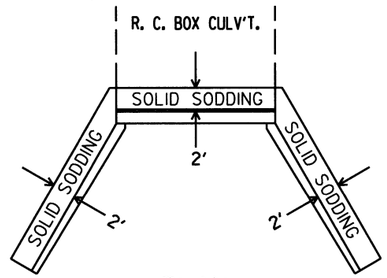
REINFORCED CONCRETE BOX CULVERT DETAILS

STANDARD DRAWING RCB-1



PLAN

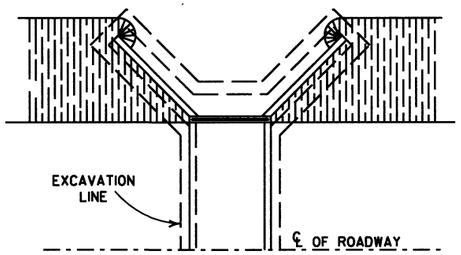
SOLID SODDING



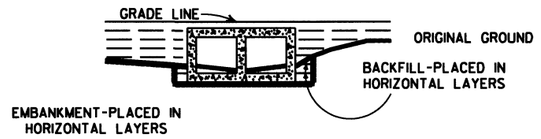
PLAN

PARTIAL SECTION SHOWING SOLID SODDING AT HEADWALLS AND WING WALLS

NOTE: LENGTH MEASURED ALONG THE CENTER OF 2' STRIP OF SOLID SODDING.

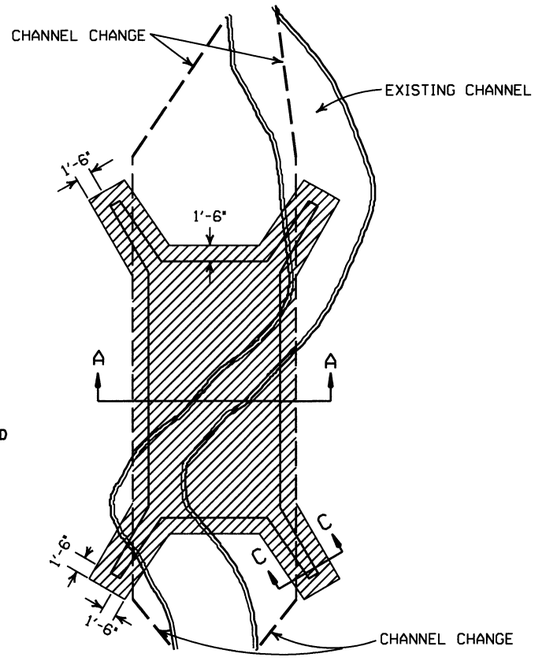


PLAN

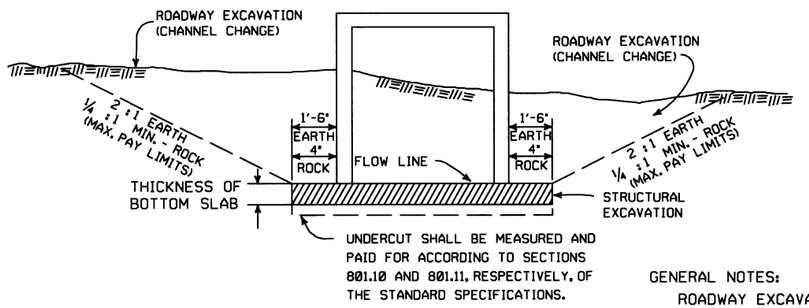


LONGITUDINAL SECTION

BACKFILL DETAILS FOR BOX CULVERT

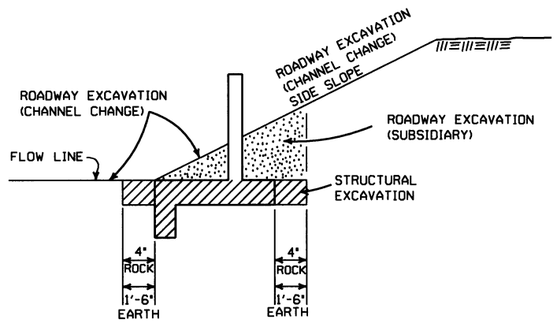


PLAN

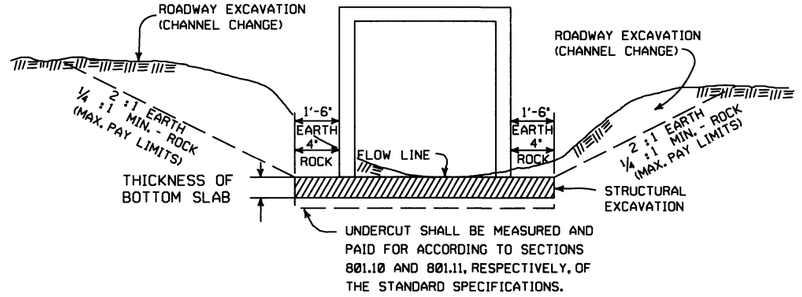


SECTION B-B

DETAILS FOR NEW CHANNELS



SECTION C-C



SECTION A-A

DETAILS THROUGH EXISTING CHANNELS

GENERAL NOTES:

ROADWAY EXCAVATION (CHANNEL CHANGE) WILL BE PAID FOR AT R.C. BOX CULVERT LOCATIONS. IT WILL BE PAID TO THE LIMITS ACTUALLY CUT AND WILL BE CONFINED TO THAT PORTION OF THE INDICATED AREA THAT IS ABOVE THE FLOW LINE. ROADWAY EXCAVATION (CHANNEL CHANGE) SHALL BE MEASURED BY CROSS SECTIONS AND VOLUMES COMPUTED BY AVERAGE END AREA METHOD. ALL CHANNEL CHANGES SHALL BE BROUGHT TO GRADE PRIOR TO MAKING ANY EXCAVATION FOR STRUCTURES.

EXCAVATION FOR STRUCTURES WILL BE PAID FOR AT ALL R.C. BOX CULVERT LOCATIONS. IT WILL BE PAID TO THE LIMITS SHOWN AND SHALL BE CONFINED TO THAT PORTION OF THE INDICATED AREA THAT IS BELOW THE CHANNEL FLOW LINE.

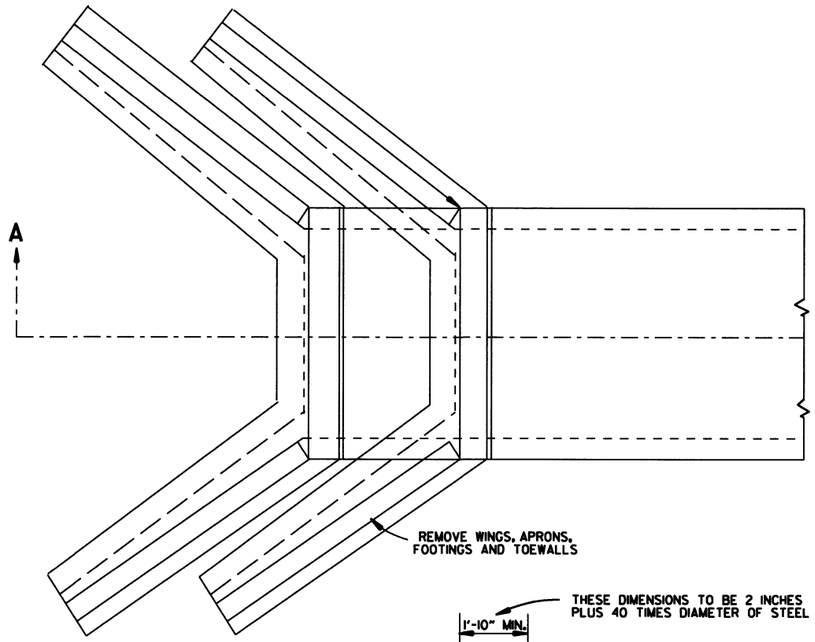
ROADWAY EXCAVATION SHOWN IN SECTION C-C ABOVE AS SUBSIDIARY WILL NOT BE MEASURED OR PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.

DATE	REVISION	FILMED
11-20-03	REVISED SECTION A-A NOTE	
8-22-02	REVISED SECTION B-B NOTE	
10-12-95	COMBINED 1891B AND 1888A	
1-4-83	REVISED GENERAL NOTES	674-1-4-83
	AND ADDED MAXIMUM PAY	
	LIMIT NOTES.	
2-2-76	EXCAV. PAY LIMITS	917-2-2-76
10-2-72	REVISED AND REDRAWN	564-10-16-72

ARKANSAS STATE HIGHWAY COMMISSION

EXCAVATION PAY LIMITS, BACKFILL, & SOLID SODDING FOR BOX CULVERTS

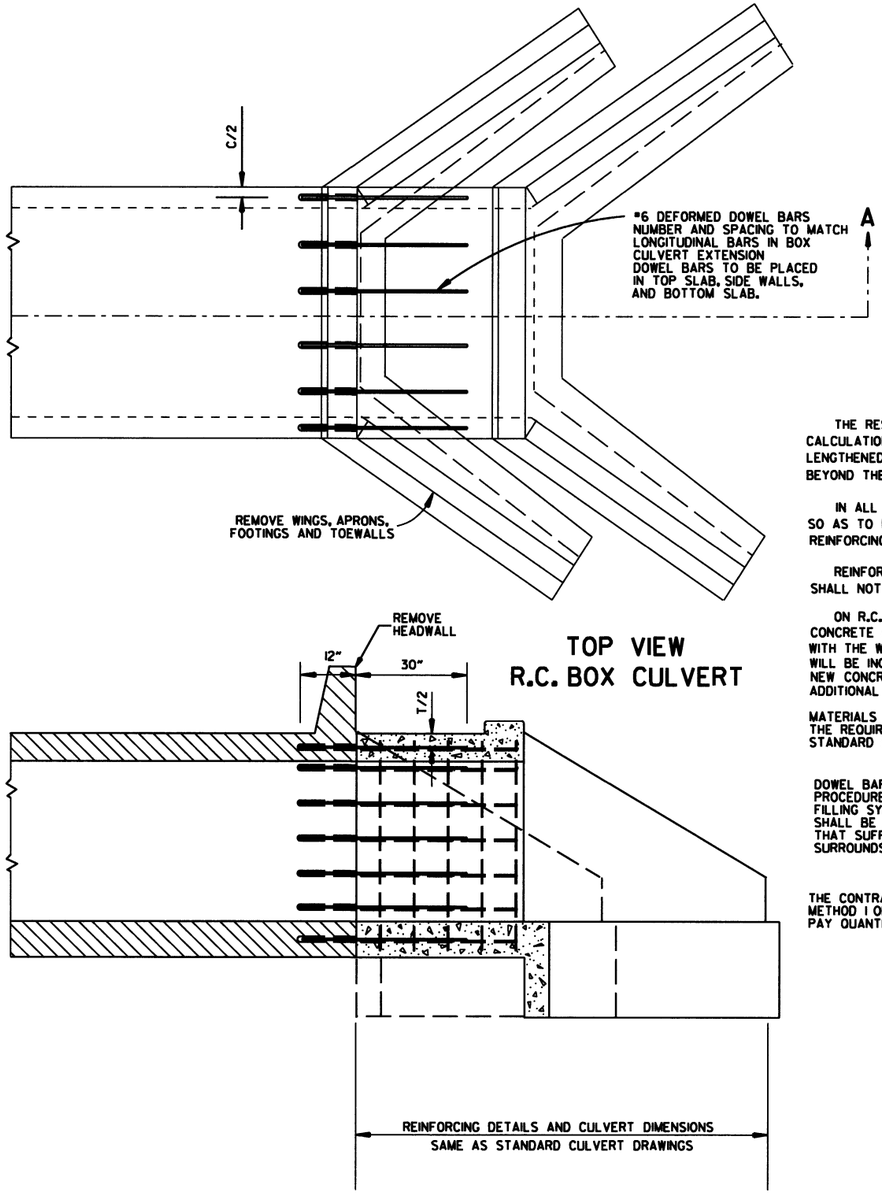
STANDARD DRAWING RCB-2



TOP VIEW
R.C. BOX CULVERT

SECTION A-A

METHOD 1



TOP VIEW
R.C. BOX CULVERT

SECTION A-A

METHOD 2

GENERAL NOTES

	USE FOR METHOD
THE RESIDENT ENGINEER WILL MAKE INDIVIDUAL CALCULATIONS OF QUANTITIES FOR EACH STRUCTURE LENGTHENED, MAKING NO ALLOWANCE FOR OVERBREAKAGE BEYOND THE LINES INDICATED.	1
IN ALL INSTANCES CONCRETE SHALL BE REMOVED SO AS TO PERMIT FULL 40 DIAMETER SPLICE OF REINFORCING STEEL.	1
REINFORCING STEEL REMOVED FROM EXISTING STRUCTURE SHALL NOT BE REUSED IN CONSTRUCTING EXTENSION.	1&2
ON R.C. BOX CULVERTS THAT HAVE AN EXISTING CONCRETE APRON; THE CONCRETE APRON SHALL BE REMOVED WITH THE WINGS. THE COST OF REMOVING ALL OLD CONCRETE WILL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR NEW CONCRETE OF THE CLASS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	1&2
MATERIALS FOR SECURING DOWEL BARS SHALL MEET THE REQUIREMENTS OF SECTION 507.02 OF THE STANDARD SPECIFICATIONS.	2
DOWEL BARS SHALL BE INSTALLED AS FOLLOWS; THE DRILLING PROCEDURE SHALL BE APPROVED BY THE ENGINEER. THE FILLING SYSTEM SHALL BE APPROVED BY THE ENGINEER. AND SHALL BE AN INJECTION-TYPE SYSTEM WHICH WILL INSURE THAT SUFFICIENT MATERIAL IS INJECTED SO IT COMPLETELY SURROUNDS THE BARS AND FILLS THE HOLES.	2
THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER METHOD 1 OR METHOD 2. REGARDLESS OF WHICH METHOD IS USED, PAY QUANTITIES WILL BE CALCULATED BASED ON METHOD 1.	1&2

NOTE:
NO PART OF THIS STANDARD IS TO BE USED FOR ANY DETAILS RELATIVE TO NEW CONSTRUCTION.

SEE STANDARD DRAWING LISTED IN TABULATION OF STRUCTURES FOR ALL NEW CONSTRUCTION DETAILS.

DATE	REVISION	DATE FILM
10-12-95	CHANGED DRAWING # FROM 144-A	
4-1-93	ADDED GENERAL NOTE	
10-1-92	ADDED ALT. METHOD OF EXTENSION	
11-30-89	REDRAWN	
1-4-83	ELIMINATED CONCRETE CLASS	
12-20-56	RETRACED	

ARKANSAS STATE HIGHWAY COMMISSION

METHOD OF EXTENDING EXISTING R.C. BOX CULVERTS

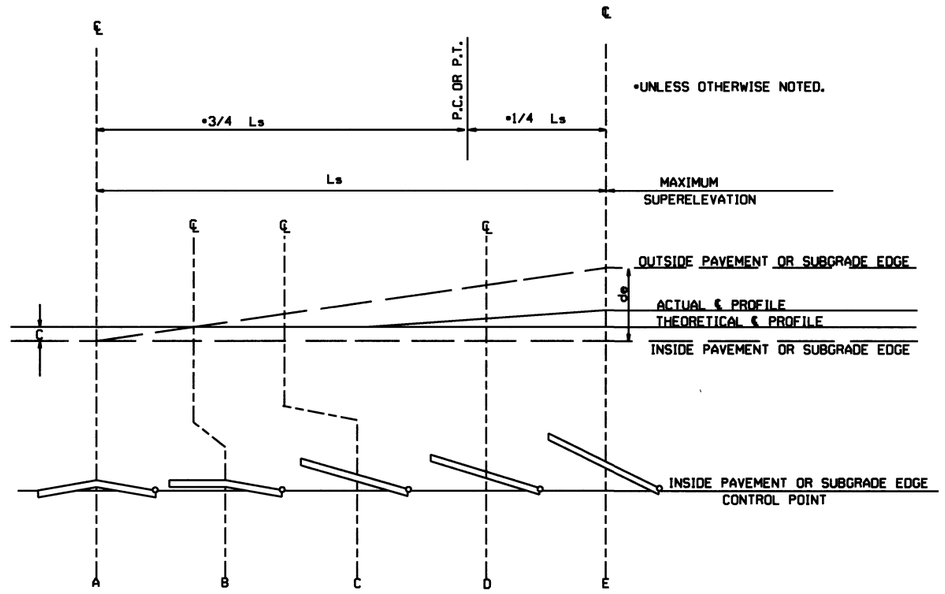
STANDARD DRAWING RCB-3

SUPERELEVATION TABLE FOR TWO - WAY TRAFFIC

DEGREE OF CURVE	30 MPH			40 MPH			50 MPH			55 MPH			60 MPH			70 MPH		
	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
0° 15'	N.C.			N.C.			N.C.			N.C.			N.C.			N.C.		
0° 30'	N.C.			N.C.			N.C.			N.C.			N.C.			N.C.		
0° 45'	N.C.			N.C.			R.C.			0.022			0.023			0.028		
1° 00'	N.C.			N.C.			0.021			0.025			0.030			0.037		
1° 15'	N.C.			R.C.			0.026			0.029			0.037			0.046		
1° 30'	N.C.			0.021			0.031	200		0.031	225		0.043	250		0.054	275	
1° 45'	N.C.			0.025	175		0.036			0.034			0.049			0.062		
2° 00'	R.C.			0.028			0.040			0.038			0.055			0.070		
2° 15'	R.C.			0.031			0.045			0.043			0.061			0.078	300	
2° 30'	0.021			0.034			0.049			0.048			0.067			0.085	315	350
2° 45'	0.023			0.037			0.053			0.053			0.072			0.091	335	
3° 00'	0.025	150		0.040			0.057			0.058			0.077	260		0.096	350	
3° 15'	0.027			0.043			0.061			0.063			0.082	275		0.098	360	400
3° 30'	0.029			0.046			0.065	205		0.067	230		0.086	285		0.100	360	
3° 45'	0.031			0.049			0.069	215		0.072	245		0.090	295				
4° 00'	0.033			0.051			0.072	225		0.076	255		0.093	305	350			
4° 30'	0.037			0.056			0.078	240		0.080	265		0.096	315				
5° 00'	0.040			0.061			0.083	250		0.083	270		0.098	320				
5° 30'	0.043			0.066	185		0.088	260		0.087	280							
6° 00'	0.046			0.070	190		0.092	270		0.091	295	350						
6° 30'	0.050			0.074	200		0.095	280		0.094	300							
7° 00'	0.053			0.078	210		0.098	285		0.096	305							
7° 30'	0.056			0.081	215		0.099	290	300	0.100	315							
8° 00'	0.058			0.084	220		0.100	290										
8° 30'	0.061			0.087	225	250												
9° 00'	0.063			0.089	230													
10° 00'	0.068	160		0.092	235													
11° 00'	0.072	170		0.094	245													
12° 00'	0.076	175		0.097	250													
13° 00'	0.080	180		0.099	250													
14° 00'	0.083	190		0.100	250													
15° 00'	0.086	195																
16° 00'	0.089	200																
17° 00'	0.091	200																
18° 00'	0.093	205																
19° 00'	0.095	210																
20° 00'	0.097	215	250															
21° 00'	0.098	215																
22° 00'	0.099	215																
23° 00'	0.099	215																
24° 00'	0.100	220																
	D MAX = 24° 45'			D MAX = 13° 15'			D MAX = 8° 15'			D MAX = 6° 30'			D MAX = 5° 15'			D MAX = 3° 30'		

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.)



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND INNER SUBGRADE POINT OR INNER PAVEMENT EDGE

NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.

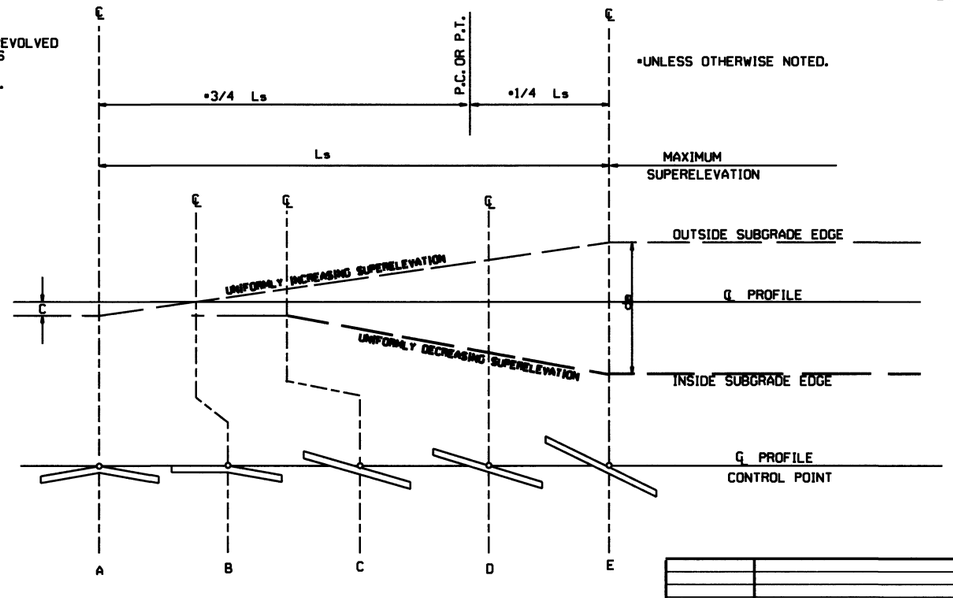
GENERAL NOTES

1. ON PAVEMENT WITH TWO-WAY TRAFFIC, THE SUPERELEVATION SHALL BE REVOLVED ON THE INSIDE PAVEMENT EDGE UNLESS OTHERWISE NOTED ON THE PLANS
2. SUPERELEVATION VALUES SHOWN ON THE CROSS SECTIONS ARE VALUES (+) OR (-) TO BE ADDED TO OR SUBTRACTED FROM THE POINT OF CONTROL.
3. LENGTHS FOR L MAY BE ROUNDED IN MULTIPLES OF 25 FT. OR 50 FT. TO PERMIT SIMPLER CALCULATIONS.
4. 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.



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND CENTER LINE

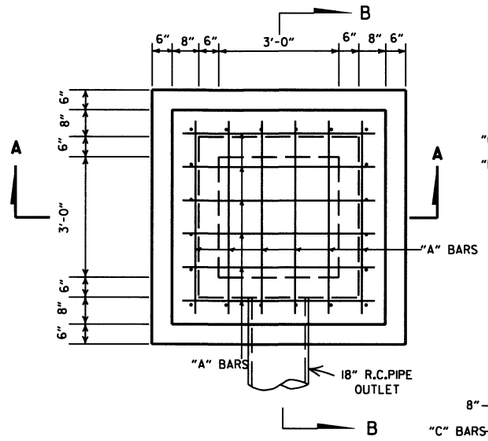
SUPERELEVATION FORMULA = $\frac{Lde}{Ls}$

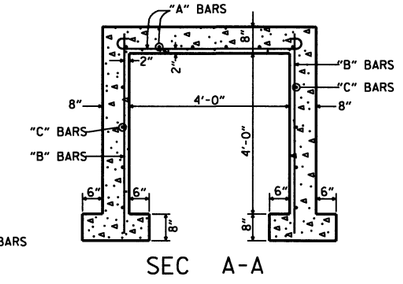
DATE	REVISION	DATE FILMED
10-18-96	ADDED FORMULA	
01-09-87	ISSUED	534-1-9-87

ARKANSAS STATE HIGHWAY COMMISSION

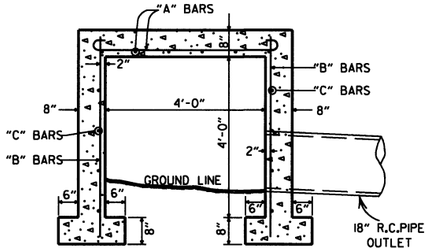
TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC

STANDARD DRAWING SE-2





SEC A-A



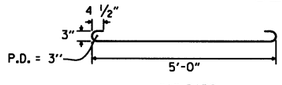
SEC B-B

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

STEEL SCHEDULE

BARS	NUMBER	LENGTH	SPACING
"A"	12	6'-0"	10"
"B"	20	5'-0"	10 ½"
"C"	16	5'-0"	12"

ALL STEEL TO BE #4 BARS



"A" BARS

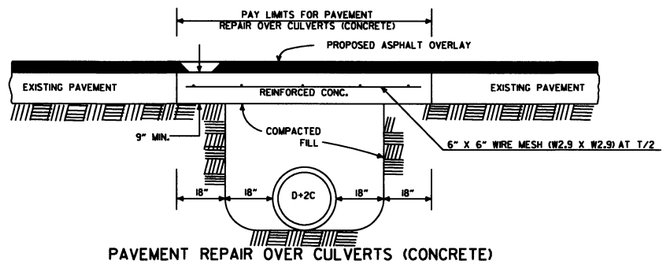
QUANTITIES

CONCRETE 3.31 CU. YDS.
REINFORCING STEEL 168 LB.

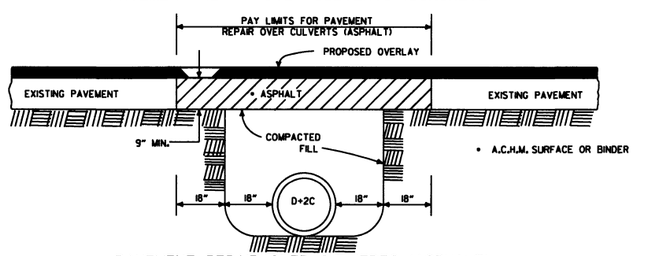
GENERAL NOTE:

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

REINFORCED CONCRETE SPRING BOX



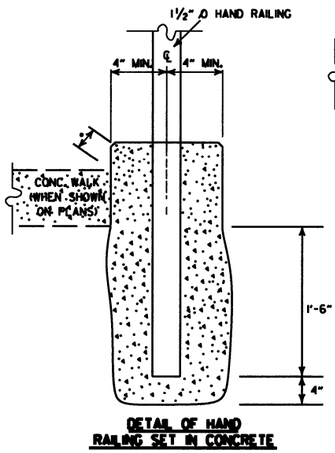
PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



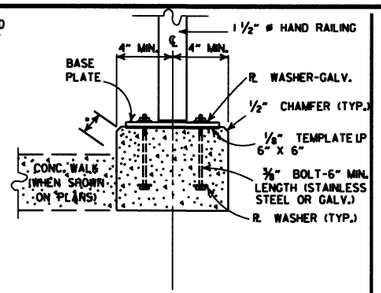
PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

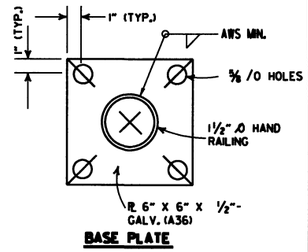
* A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

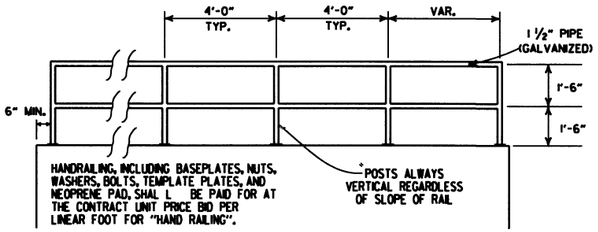


POST CONNECTION TO WALL

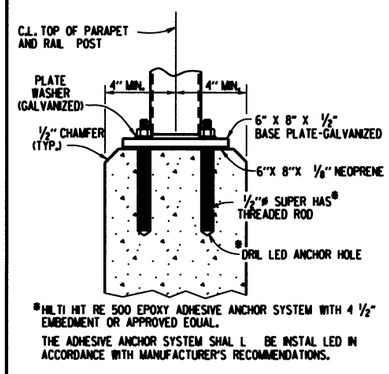


BASE PLATE

POST CONNECTION DETAILS



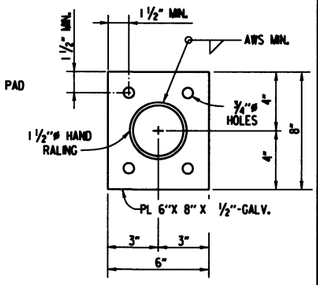
HAND RAILING SHALL CONFORM TO SECTION 633.



*HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 ½" EMBEDMENT OR APPROVED EQUAL.

THE ADHESIVE ANCHOR SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

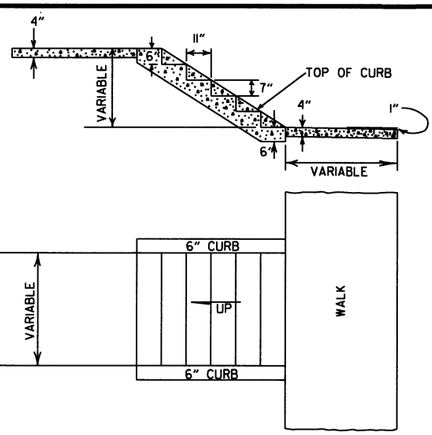
POST CONNECTION TO WALL



BASE PLATE

DETAILS OF ALTERNATE POST ANCHOR SYSTEM (EPOXY ADHESIVE ANCHORS)

HAND RAILING DETAILS



GENERAL NOTES

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

DETAILS OF CONCRETE STEPS & WALKS

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

ARKANSAS STATE HIGHWAY COMMISSION

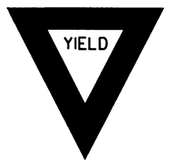
DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI-1

R1-1

STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1

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"

R4-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

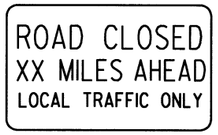
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

RII-2

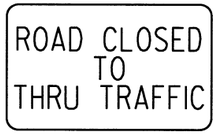
48"X30"

RII-3A



60"X30"

RII-4



60"X30"

W21-5a

STD. 36"X36"
FWY. 48"X48"

WI-1

STD. 36"X36"
FWY. 48"X48"

WI-2

STD. 36"X36"
FWY. 48"X48"

WI-3

STD. 48"X48"

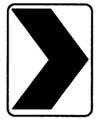
WI-4

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"

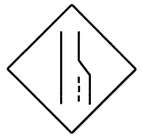
W3-1

STD. 36"X36"
SPECIAL 48"X48"

W3-2

STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1

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"

WI3-1

STD. 24"X24"

W20-1

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

STD. 36"X36"
FWY. 48"X48"

W21-2

STD. 30"X30"
SPECIAL 36"X36"

W21-5

STD. 30"X30"
SPECIAL 36"X36"

W24-1

STD. 36"X36"

WI-4b

STD. 48"X48"

R56-1

STD. 18"X18"

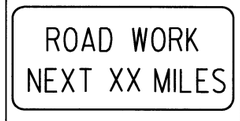
W8-11

STD. 36"X36"
FWY. 48"X48"

W8-9

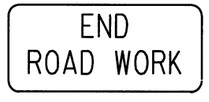
STD. 36"X36"
FWY. 48"X48"

G20-1



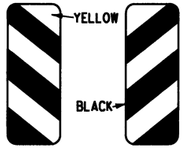
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

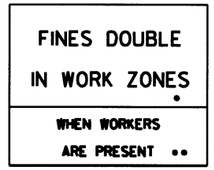
M4-9

STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10

48"X18"

R55-1



36"X60"

• USE 6" C LETTERS
•• USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ 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.

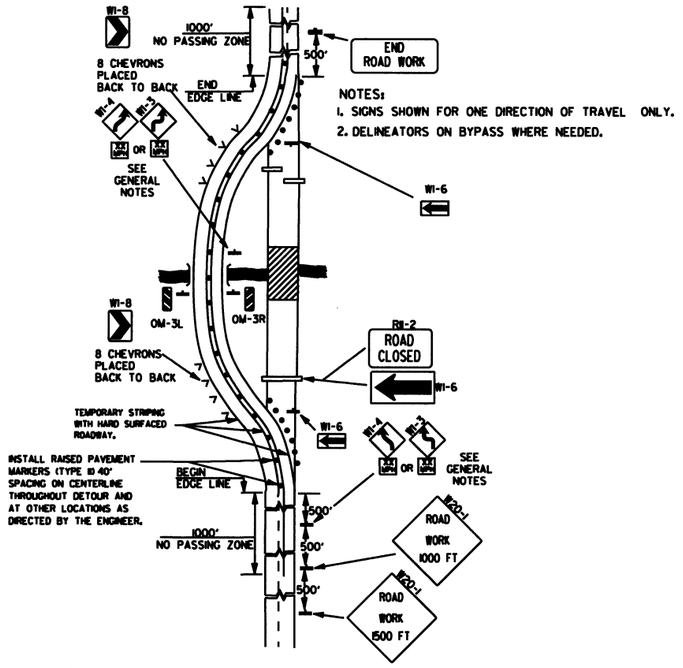
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

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

ARKANSAS STATE HIGHWAY COMMISSION

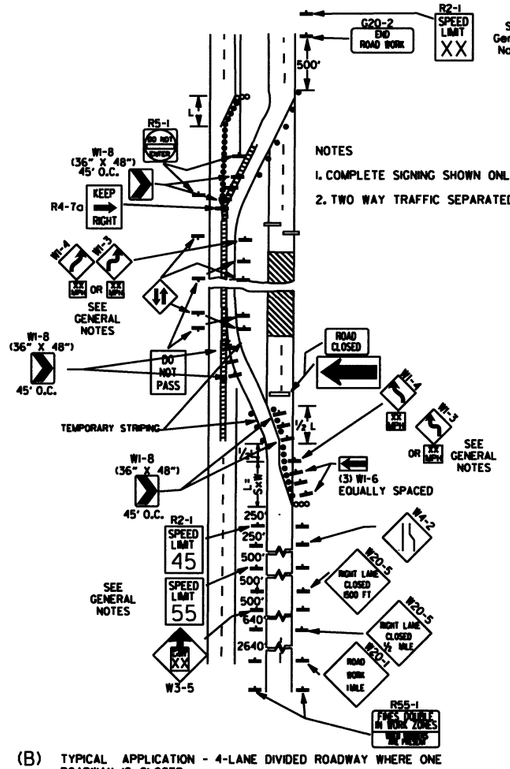
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



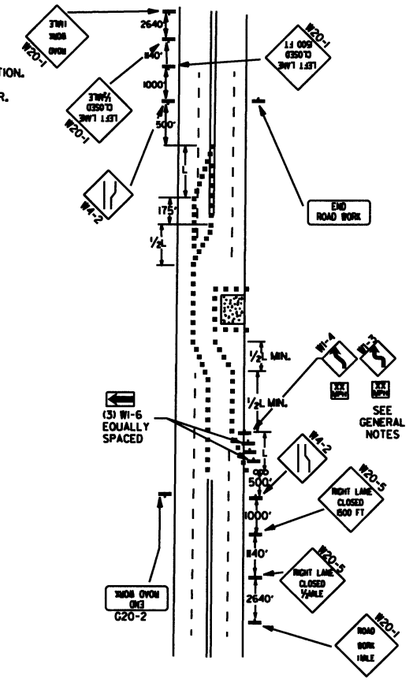
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

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

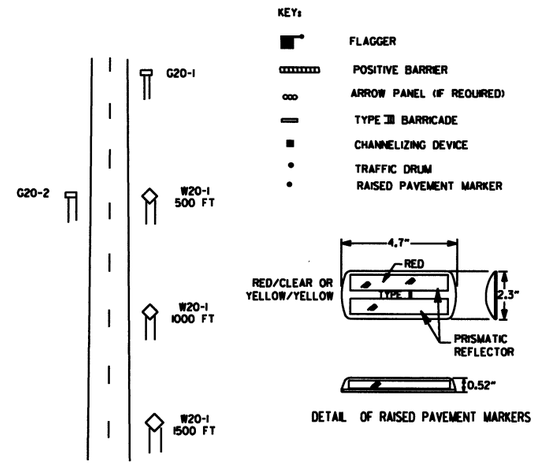


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(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.



DETAIL OF RAISED PAVEMENT MARKERS

TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

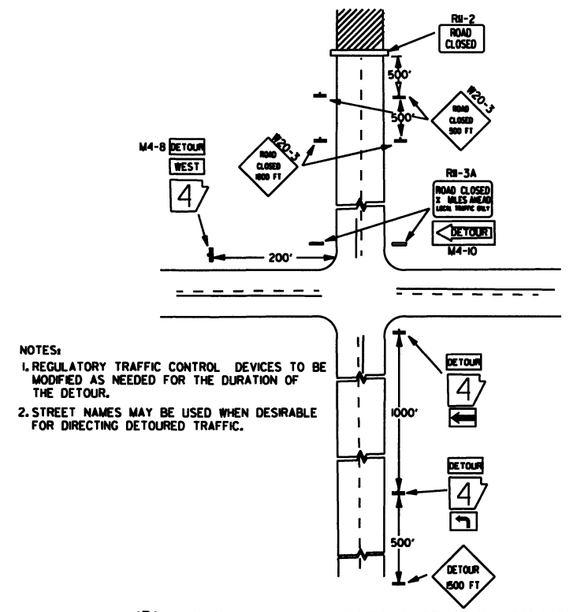
L=SXW FOR SPEEDS OF 45MPH OR MORE.

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

WHERE:
L= MINIMUM LENGTH OF TAPER.
S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.
W= WIDTH OF OFFSET.

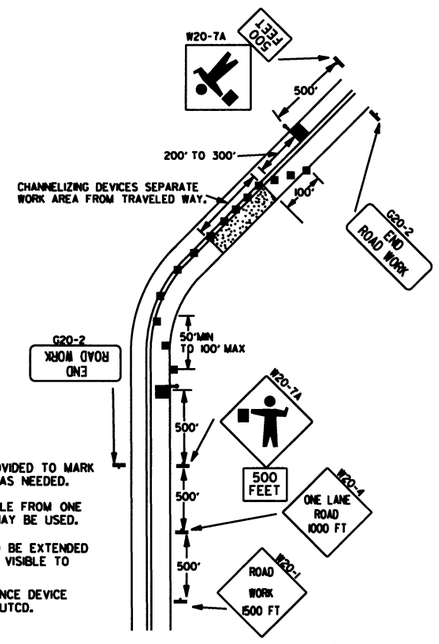
GENERAL NOTES:

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



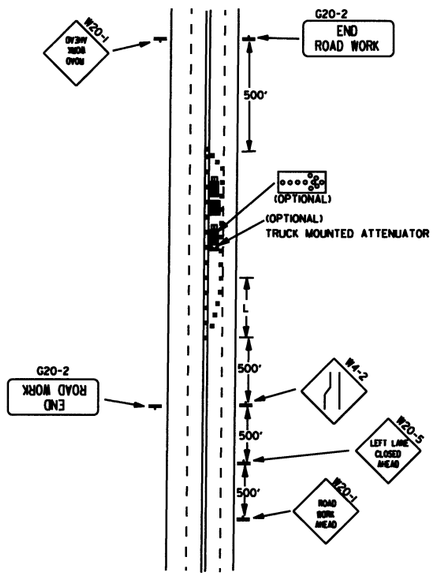
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

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



NOTES:
1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

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



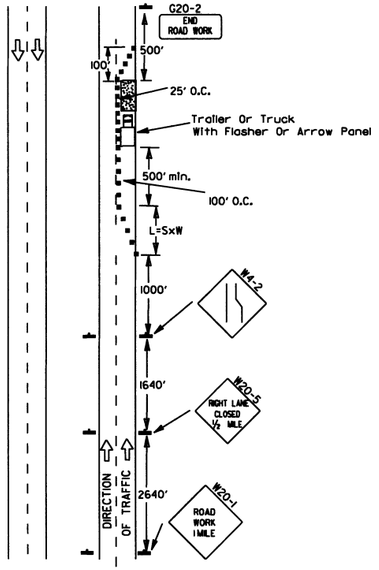
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
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	
3-8-10	ADDED (AFAD)	
8-20-08	REVISED SIGN DESIGNATIONS	
8-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

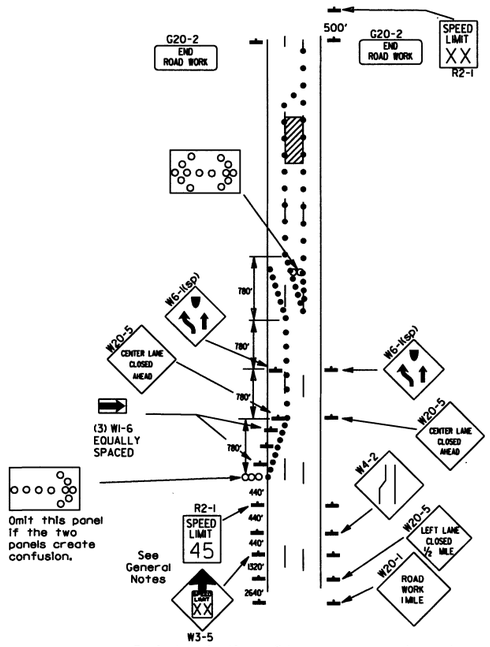
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

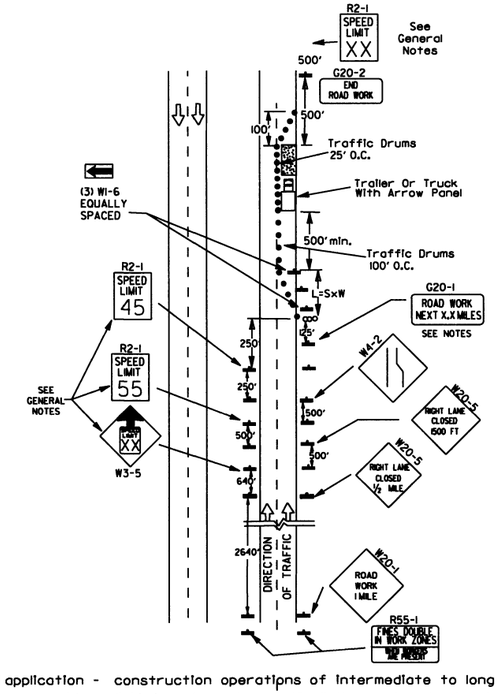
STANDARD DRAWING TC-2



(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



(B) Typical application - 3-lane oneway roadway where center lane is closed.



(C) Typical application - construction operatipns of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

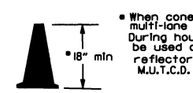
KEY:

- ∞ Arrow Panel (If Required)
- ■ Channelizing Device
- ● Traffic drum

GENERAL NOTES:

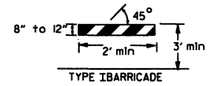
1. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(55) shall be omitted and the W3-5 shall be installed at that location. Additional R2-1 45mph speed limit signs shall be installed at a maximum of 1 mile intervals. At the end of the work area a R2-1(XX) shall be installed to match original speed limit.
3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-1 55mph 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.
4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
7. The G20-1 sign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-1 sign shall be erected 125' in advance of the job limit. Additional W20-1 (1 MILE) signs are not required in advance of lane closures that begin inside the project limits.
8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
9. All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).
10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

Channelizing devices



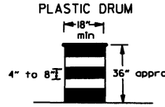
- When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D.

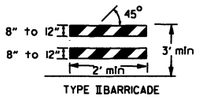
CONES



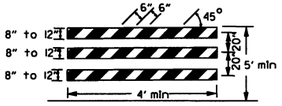
TYPE I BARRICADE

PLASTIC DRUM



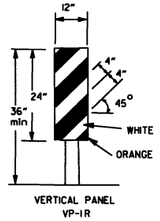


TYPE II BARRICADE



TYPE III BARRICADE

NOTE: For all road closures, the Type III barricades shall be of sufficient length to extend across entire roadway.



VERTICAL PANEL
VP-1R

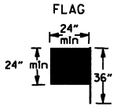
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	•RSP-1 and vertical panels, drums or concrete barrier
Greater than 3"	Edge of shoulder	•Vertical panels, drums or concrete barrier

- When shown on the plans concrete barrier will be used.

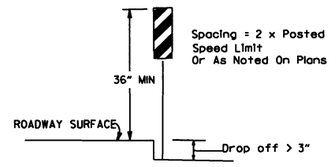
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.

FLAG

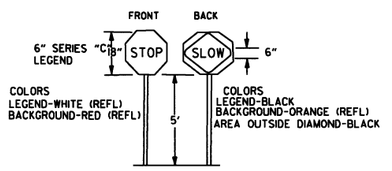


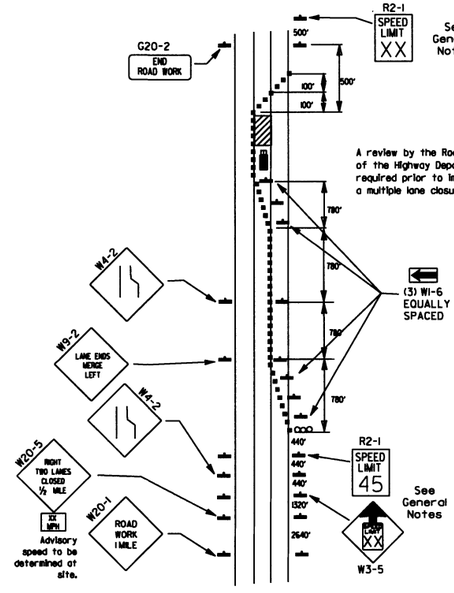
Flag shall be of good grade red material

VERTICAL PANEL PLACEMENT



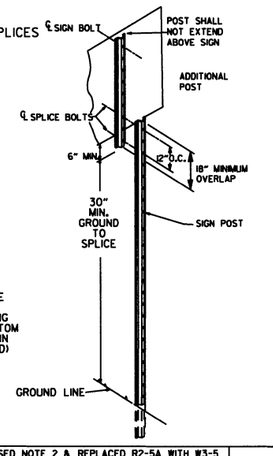
STOP SLOW PADDLE





(D) Typical application - closing multiple lanes of a multilane highway.

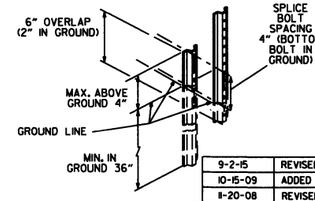
DETAIL OF SPLICES



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.



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

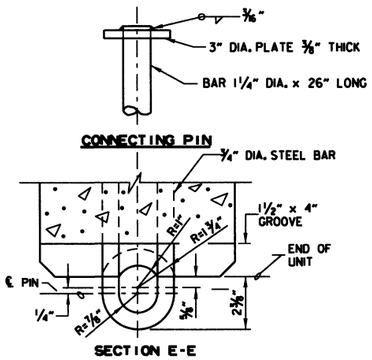
ARKANSAS STATE HIGHWAY COMMISSION

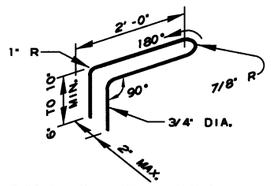
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

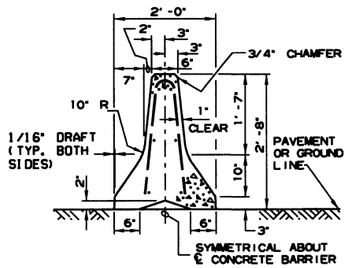
STANDARD DRAWING TC-3

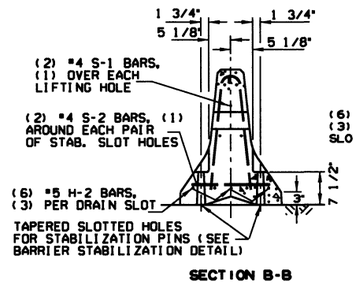
REINFORCING BAR TABLE PER BARRIER UNIT

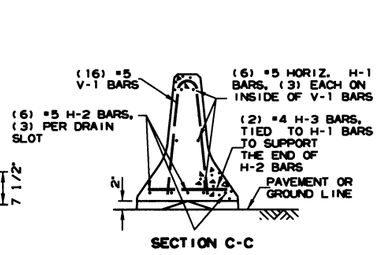
MARK	LOCATION	BAR SIZE	(NO. BARS)	SKETCH
H-1	HORIZONTAL IN BARRIER TIED INSIDE V-1 BARS	#5	(6)	19'-3"
H-2	CENTERED ABOVE DRAIN SLOTS LONG. & TRANSVERSELY	#5	(6)	6'-6"
H-3	TIED ABOVE H-1 BARS TO SUPPORT H-2, TIED TO V-1	#4	(2)	1'-6"
S-1	OVER LIFT HOLES	#4	(2)	2'-3" LIFTING HOLE 90° 3 3/8" R
S-2	HORIZ. AROUND SLOTS BETWEEN V-1'S @ DRAIN SLOTS	#4	(2)	1 1/2" R SLOTS 7" 1" MIN. CLEAR TO BAR 1'-6" 5'-1" BAR W/(4) 1 1/2" R BENDS & MIN. 1'-0" OVERLAP
V-1	VERTICAL IN BARRIER(3) EACH END & (2) AT EACH DRAIN SLOTS	#5	(16)	TOTAL LENGTH 4'-9" 2 3/16" R 12° 19 1/2" 2'-1 3/8" 4 3/8"

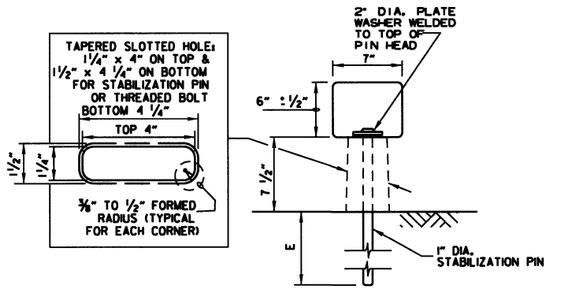




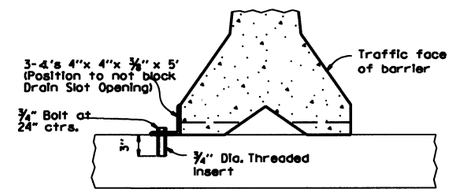






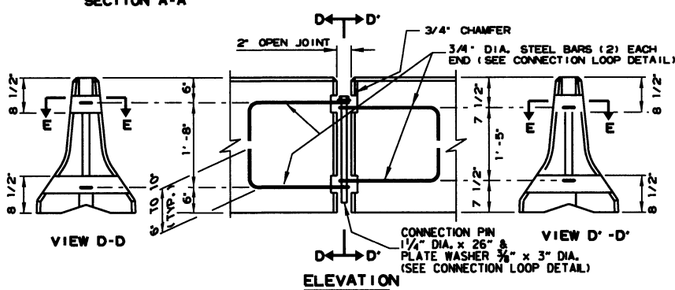


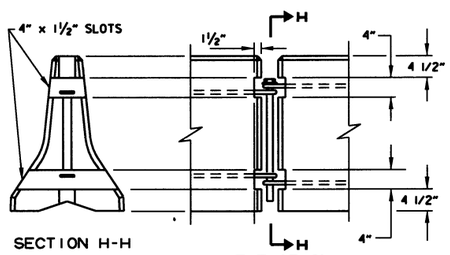
Ⓔ 4" - Concrete Pavement
8" - Asphalt Pavement
12" - Shoulder Areas

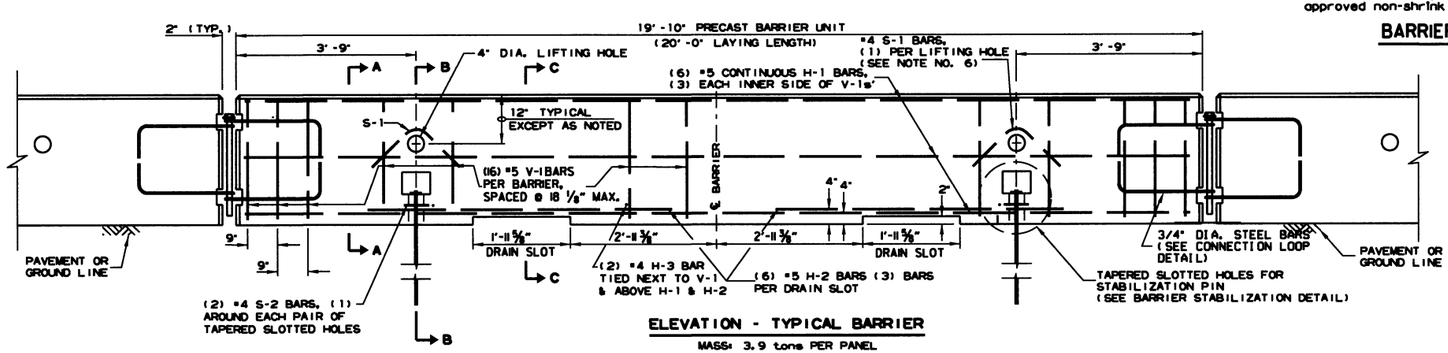


NOTE: 3/4" Threaded inserts shall be cast in place for all new bridge decks and drilled and grouted for existing bridge decks. Inserts shall have a minimum ultimate load capacity of 8000 lbs. in tension. After removal of barrier, bolts, and angles, the inserts shall be filled with approved non-shrink epoxy.

BARRIER STABILIZATION DETAIL
BRIDGE DECKS







General Notes

1. The contractor shall furnish the Precast Concrete Barrier Units and shall be responsible for the manufacture, shipment, storage, placement and removal. At the completion of the project, the precast units will remain the property of the contractor.

2. Materials shall meet the following minimum requirements:
   Concrete: 2500 psi compressive strength at 28 days.
   Reinforcing Steel: AASHTO M 31 or M 53, Grade 60
   Structural Steel: AASHTO-M270 Grade 36 shall be used for the Connection Pin, Connection Loops, and Stabilization Pins. A One Piece Pin with a 3" rounded top may be used in place of the detailed Connection Pin.
   Delineators: Delineators shall be mounted at 10' spacing on top of precast barrier.

   In applications where barrier wall is within 6 feet of a traffic lane, additional delineators shall be placed on the barrier at 10' spacing approximately one (1) foot from the top of the barrier. Delineators shall be on the AHTD Qualified Products List for Construction Concrete Barrier Markers. Delineator color shall be in accordance with the Manual on Uniform Traffic Control Devices.
   Payment for delineators shall be considered included in the price bid per Lin. Ft. for "Furnishing and Installing Precast Concrete Barrier". The contractor shall certify to the Engineer that the material and the design used in the precast barrier units meets the requirements as shown on this standard drawing.

3. Other Precast Concrete Barriers that have been crash tested and approved by the Federal Highway Administration to meet the requirements of NCHRP-350 test level 3 or Manual For Assessing Safety Hardware (MASH) will be accepted in lieu of the barrier shown. Drain slots shall be provided as needed or as directed by the Engineer. The Contractor shall furnish a certification of NCHRP Report 350 or Manual For Assessing Safety Hardware (MASH) compliance for any other types of precast barrier to be used. The certification shall state that the precast concrete barrier meets the requirements of NCHRP Report 350 or Manual For Assessing Safety Hardware (MASH) and include a copy of the Federal Highway Administration's (FHWA) approval letter with all attachments. Precast concrete barrier units shall be fabricated and installed in accordance with crash testing and documentation provided in the FHWA approval letter. Mixing of shapes will not be allowed in a continuous line of units.

4. Dowel holes in pavement or bridge slabs that are to remain in place shall be filled. Holes in concrete pavement and bridge slabs shall be filled with an approved non-shrink epoxy grout. Holes in asphalt pavement shall be filled with an approved asphalt joint filler. Payment for drilling and filling holes to be included in the price for various barrier items.

5. Attach Units To Roadway Surface with Stabilization Pins and to Deck Slabs using bolts when required.

6. A 4" White PVC Sleeve may be used to form the Lifting Hole and if used the Sleeve is to be left in place.

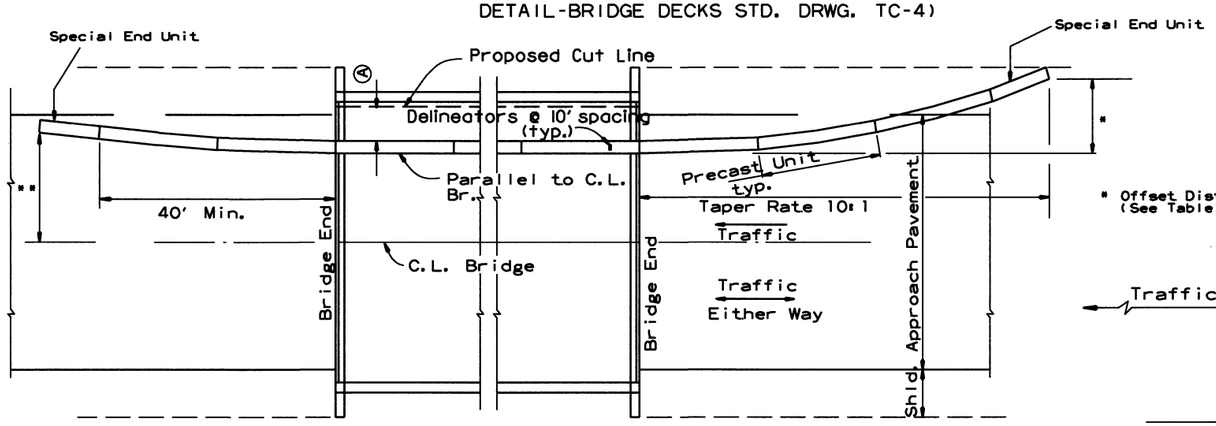
DATE	REVISION	FILMED
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO MASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED GENERAL NOTE 2	
8-22-02	ISSUED NEW DRAWING	

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

STANDARD DRAWING TC-4

Ⓐ 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)

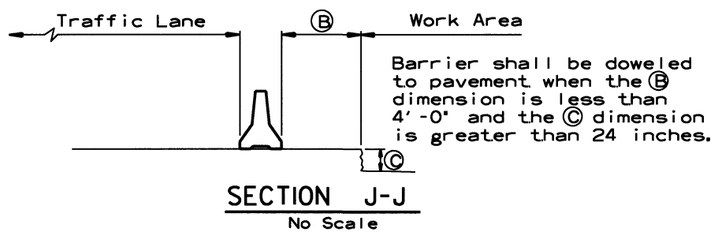


BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

No Scale

** Offset Distance for Two Way Traffic Only

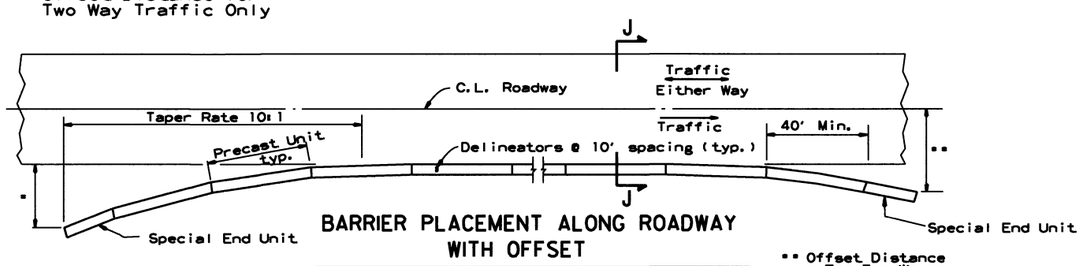
* Offset Distance (See Table)



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

SECTION J-J

No Scale



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

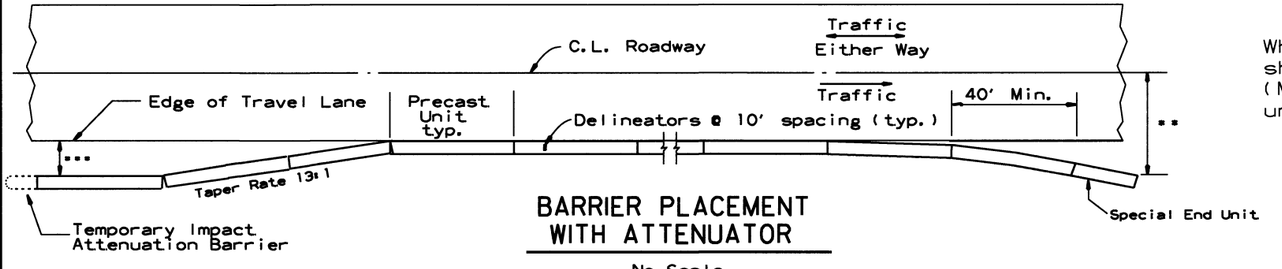
** Offset Distance For Two Way Traffic Only

* Offset Distance (See Table)

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.

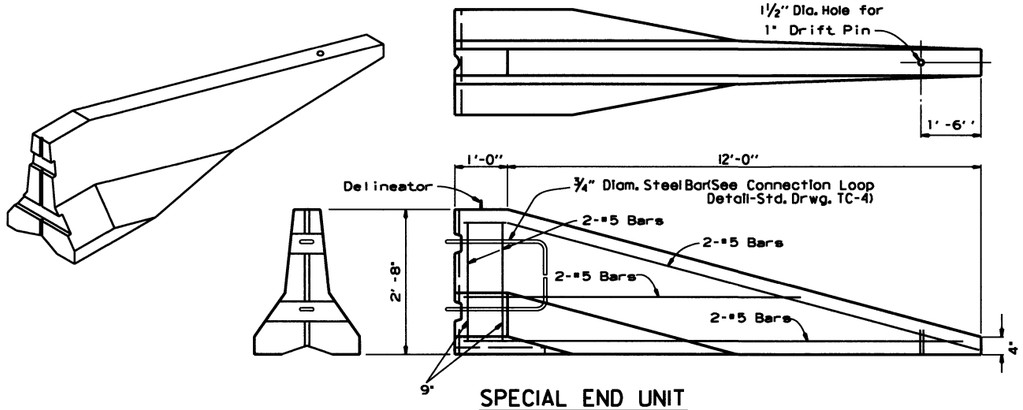


BARRIER PLACEMENT WITH ATTENUATOR

No Scale

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

** Offset Distance For Two Way Traffic Only



SPECIAL END UNIT

No Scale

General Notes

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with an NCHRP-350 or 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
10-15-09	ADDED REFERENCE TO MASH	
5-25-06	REVISED BARRIER PLACEMENT	
8-22-02	ISSUED NEW DRAWING	

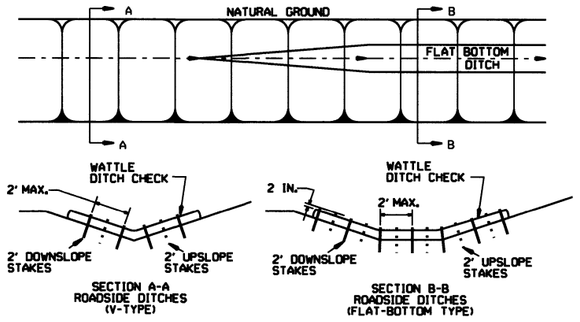
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

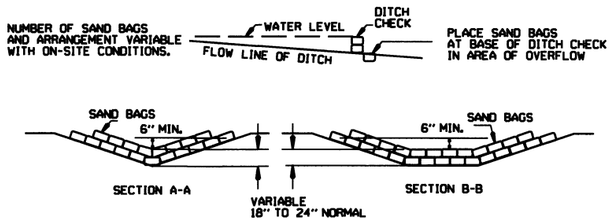
STANDARD DRAWING TC-5

GENERAL NOTES

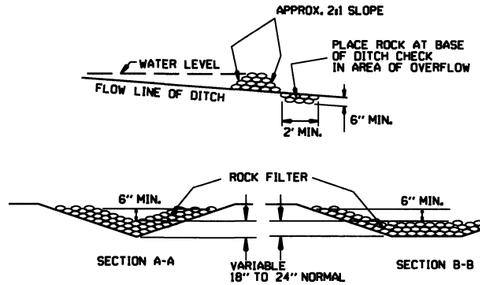
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

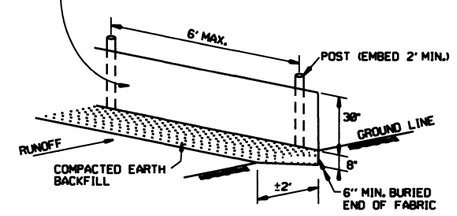


ROCK DITCH CHECK (E-6)

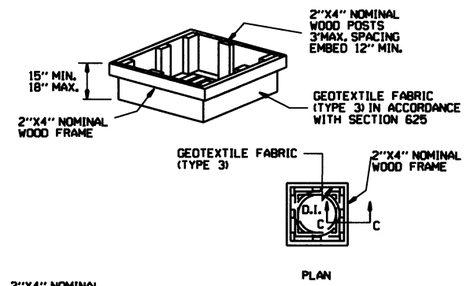
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

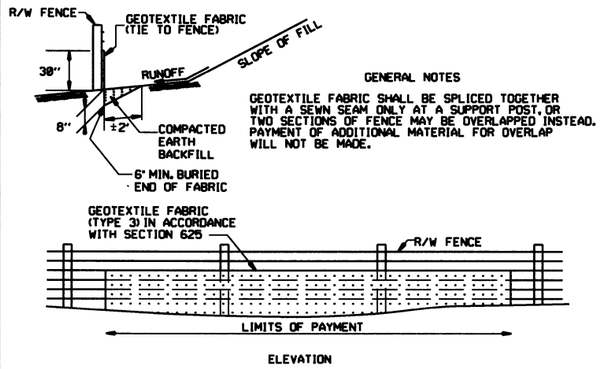
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)



DROP INLET SILT FENCE (E-7)



GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

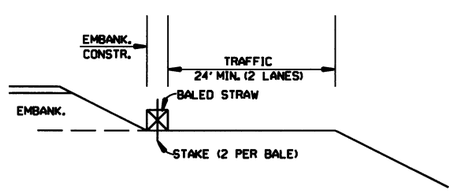
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

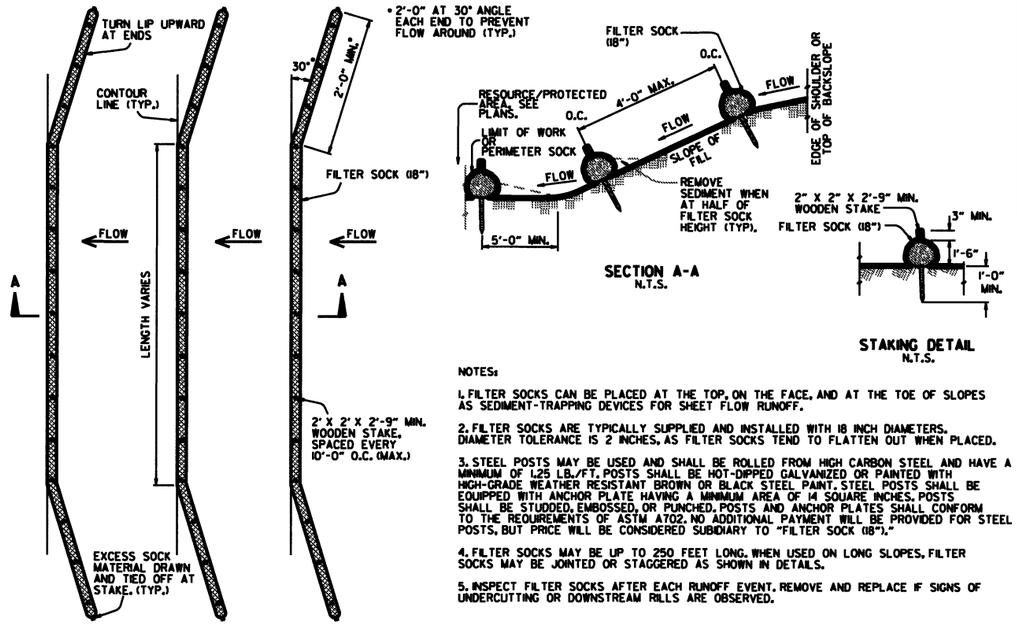
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

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)



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.

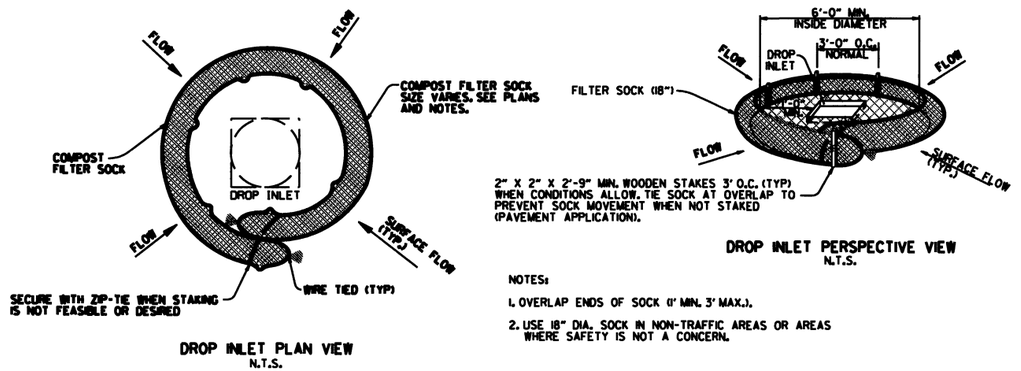
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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.

FILTER SOCK ALONG SLOPE (E-3)



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.

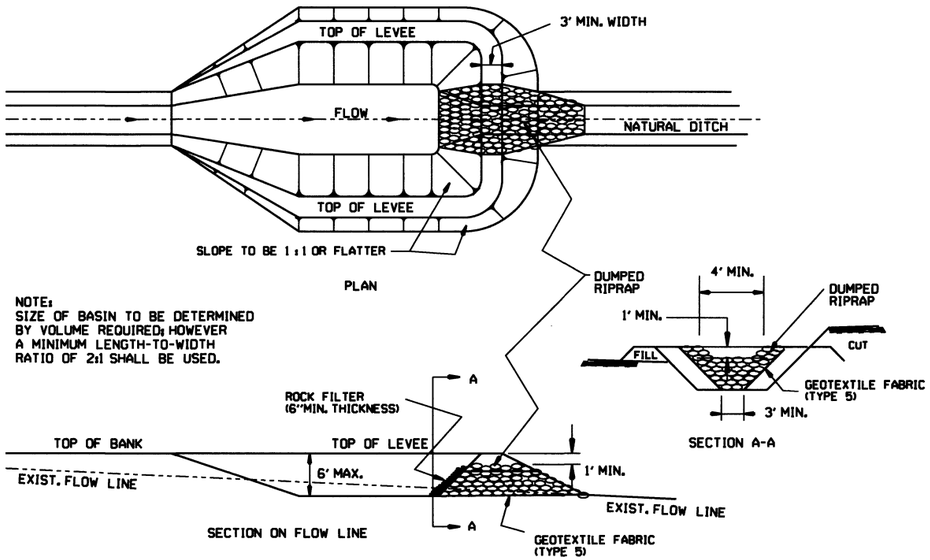
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-15-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 15" 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.D.M.	298-7-28-76

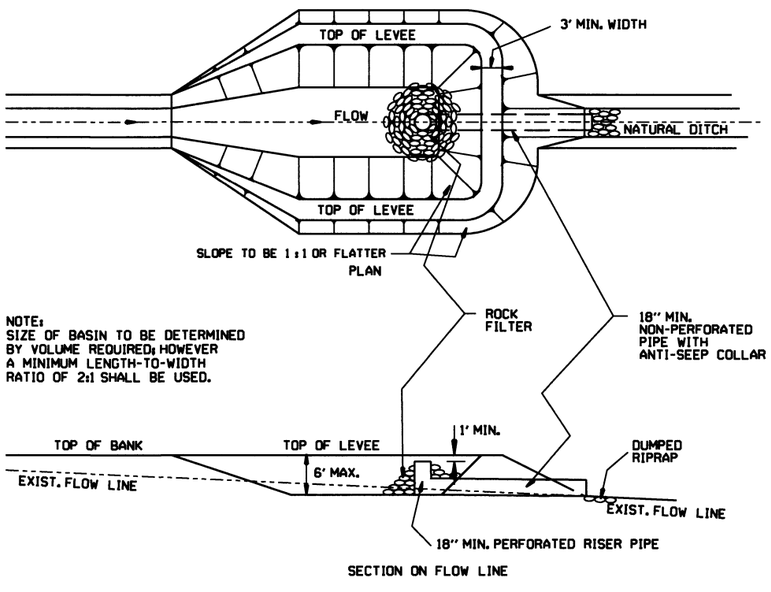
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

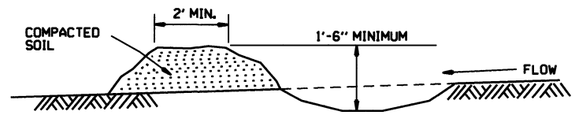
STANDARD DRAWING TEC-1



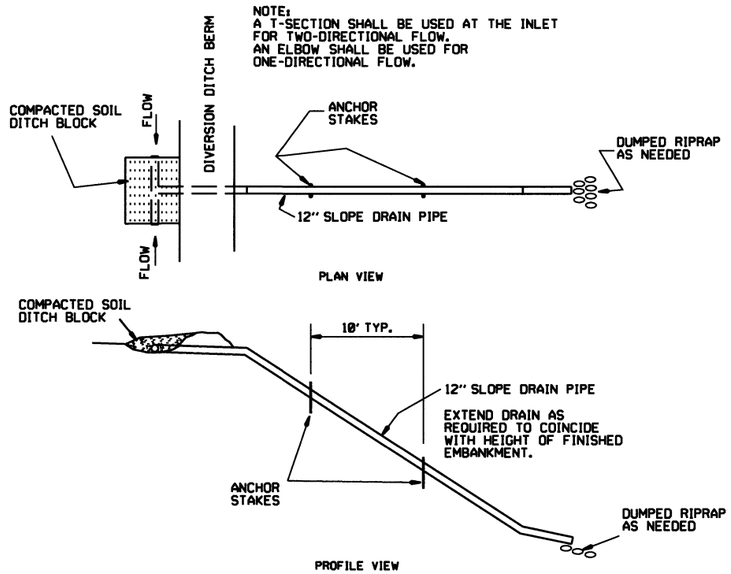
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



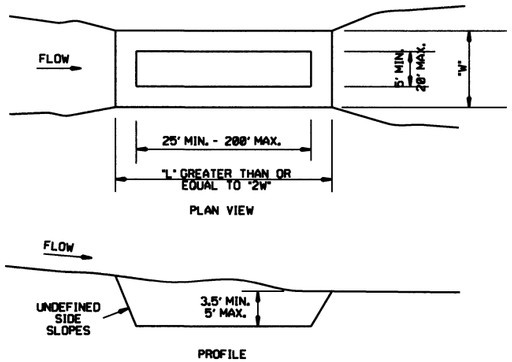
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

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

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

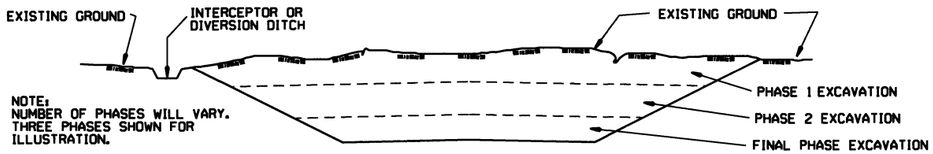
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

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

EXCAVATION



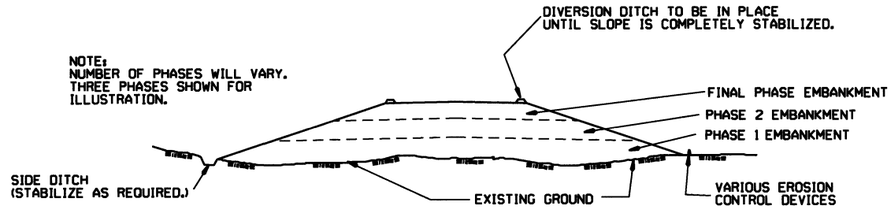
GENERAL NOTE

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

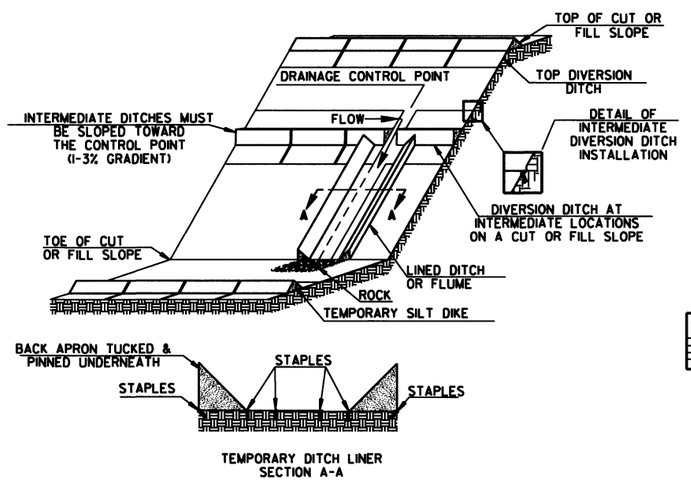
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD 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.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

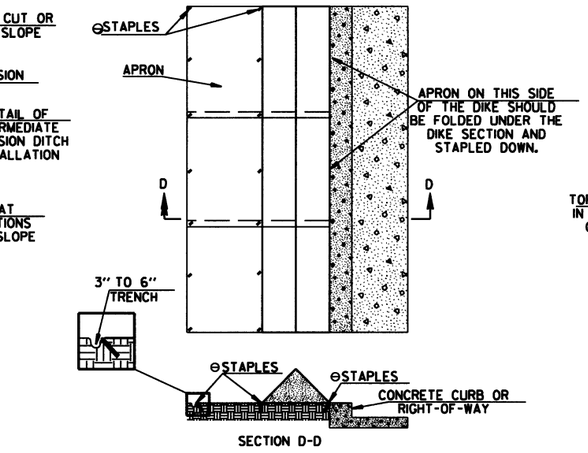
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

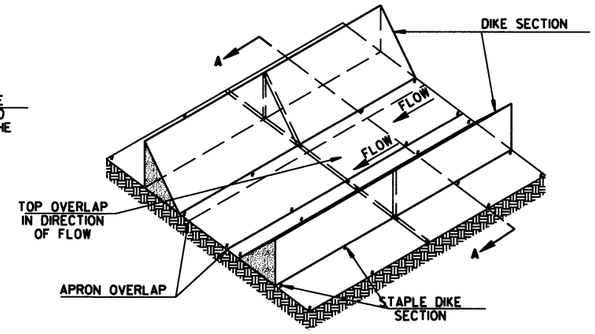
STANDARD DRAWING TEC-3



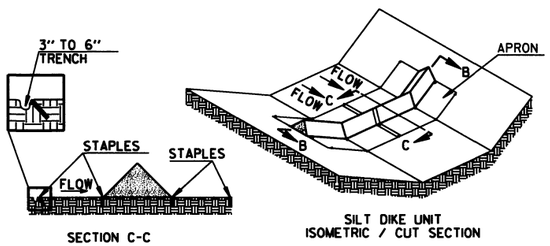
TRIANGULAR SILT DIKE INSTALLATION FOR DIVERSION DITCH AND/OR DITCH LINER

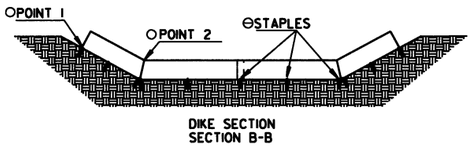


TRIANGULAR SILT DIKE INSTALLATION FOR CONTINUOUS BARRIER



TRIANGULAR SILT DIKE INSTALLATION FOR TEMPORARY DITCH LINER

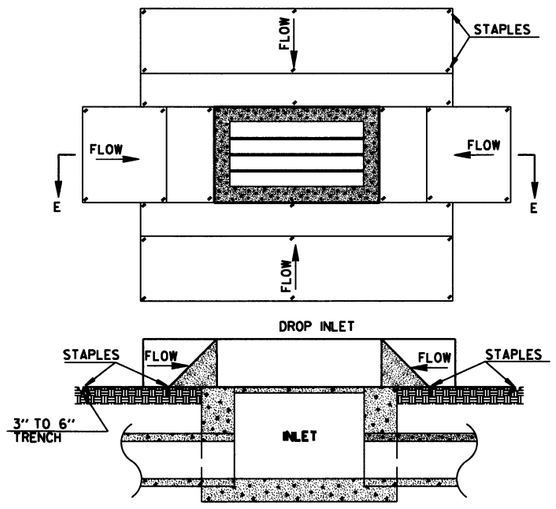




TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH

○ POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION FOR DROP INLETS

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

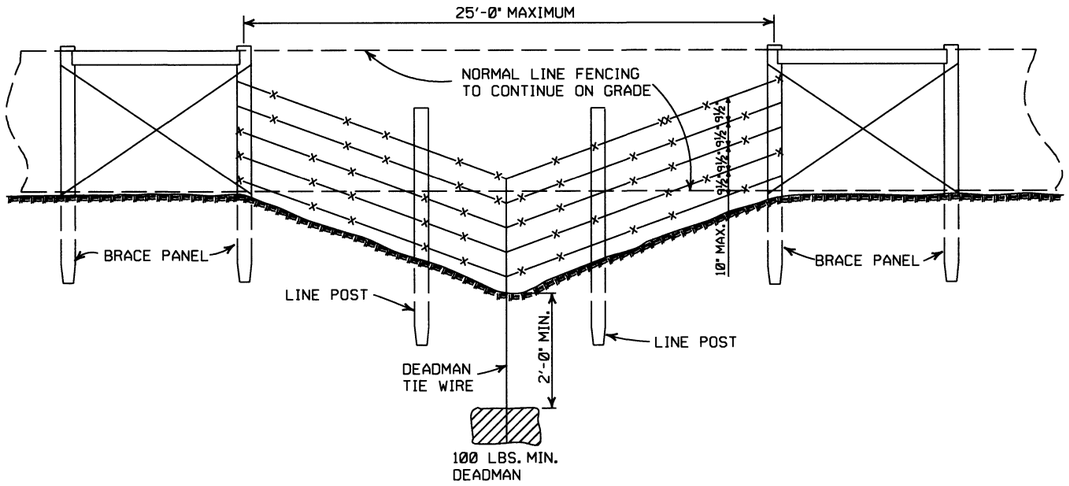
3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

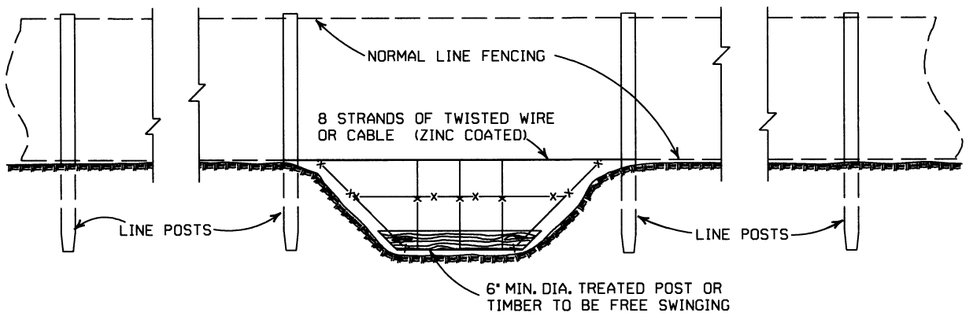
DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

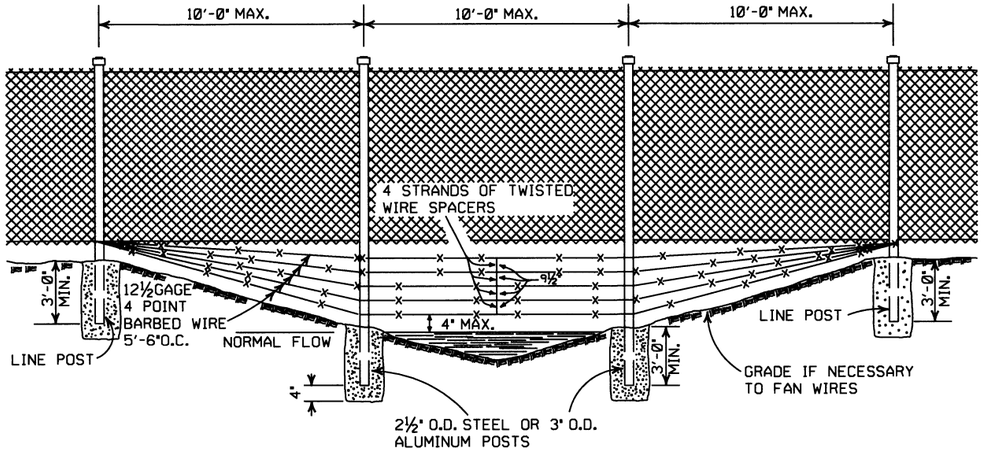
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-4







GENERAL NOTES:

THESE INSTALLATIONS TO BE USED WHERE NORMAL FENCING INSTALLATION WOULD CAUSE THE COLLECTING OF DRIFT IN THE CHANNEL OR THE DEPRESSION WILL NOT PERMIT NORMAL INSTALLATION. INSTALLATIONS WILL BE MADE ONLY WHERE DIRECTED BY THE ENGINEER.

WHEN A FENCE LINE APPROACHES A DITCH, GULLY OR DEPRESSION, THE LAST POST ON LEVEL GROUND SHALL BE PLACED CLOSE ENOUGH TO THE EDGE OF THE DROP OFF THAT THE FENCE MAY BE STRUNG TO THE POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND.

IN TERRAIN OF SUCH EXTREME IRREGULARITY THAT MINOR GRADING WILL NOT BE FEASIBLE, THE NORMAL FENCE SHALL CONTINUE ON GRADE AND THE GULLIES OR DEPRESSIONS TREATED BY AUXILIARY FENCES AS SHOWN.

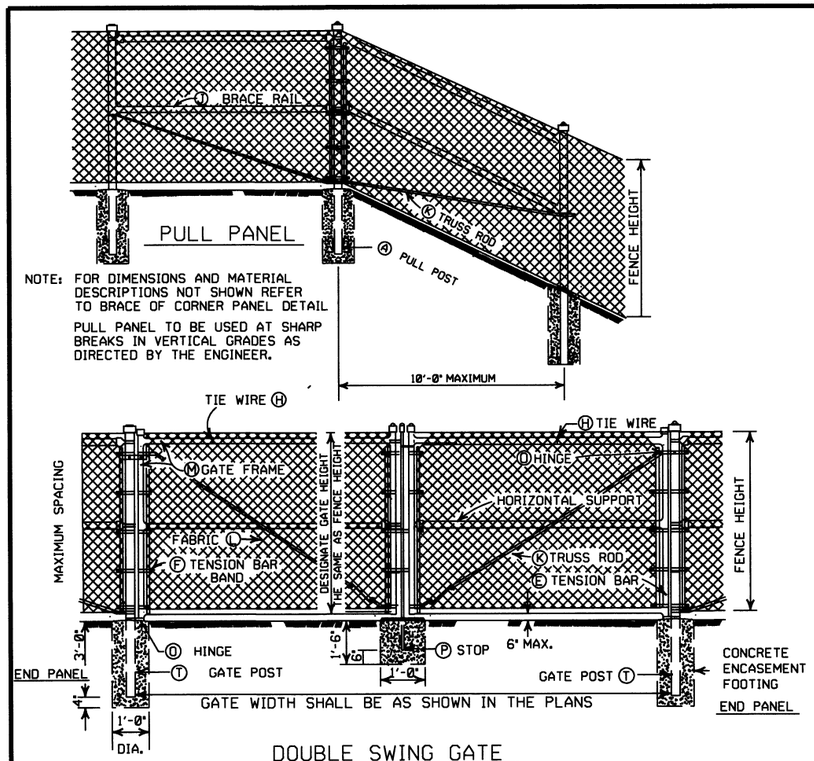
PAYMENT FOR THE TYPE INSTALLATION USED WILL NOT BE MADE DIRECTLY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR WIRE FENCE OR CHAIN LINK FENCE.

DATE	REVISION	FILMED
4-20-79	REVISED TOP RAIL & TENSION WIRE	696-4-20-79
10-2-72	REVISED AND REDRAWN	529-10-2-72

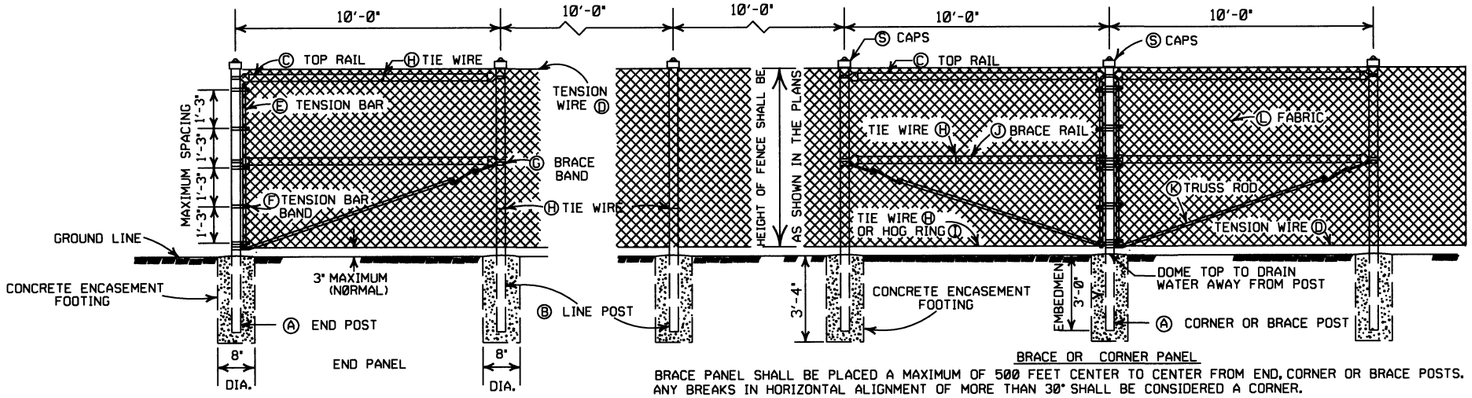
ARKANSAS STATE HIGHWAY COMMISSION

WIRE FENCE WATER GAPS

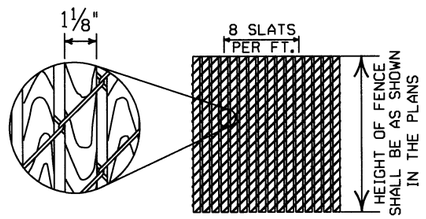
STANDARD DRAWING WF-2



POST SPACING DETAIL



BRACE PANEL SHALL BE PLACED A MAXIMUM OF 500 FEET CENTER TO CENTER FROM END, CORNER OR BRACE POSTS. ANY BREAKS IN HORIZONTAL ALIGNMENT OF MORE THAN 30° SHALL BE CONSIDERED A CORNER.



1⅛" X ¼" REDWOOD SLATS (LENGTH TO MATCH HEIGHT OF FENCE)

DETAIL OF REDWOOD SLAT INSTALLATION

(WHERE APPLICABLE)

GENERAL NOTES:

(C) CHAIN LINK FENCE BEING PLACED ON PRIVATE PROPERTY SHALL INCLUDE A TOP RAIL. ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER LIN. FT. OF CHAIN LINK FENCE.

(D) TENSION WIRE: SHALL BE SECURED TO ALL TERMINAL, PULL, BRACE OR CORNER POSTS WITH TENSION BAR BANDS.

(J) BRACE RAIL: BRACE RAILS SHALL BE PROVIDED AT ALL TERMINAL, PULL, BRACE OR CORNER POSTS HALFWAY BETWEEN THE TOP RAIL AND GROUND LEVEL WHEN TOPRAIL IS SPECIFIED AND TWELVE INCHES (12") DOWN FROM TOP OF FABRIC WHEN TOP TENSION WIRE IS SPECIFIED. BRACE RAIL SHALL EXTEND FROM SUCH POST TO THE FIRST ADJACENT LINE POST.

(L) FABRIC: SHALL CONFORM TO THE SPECIFICATIONS.

(M) GATE FRAMES: SHALL BE CONSTRUCTED OF TUBULAR MEMBERS ASSEMBLED BY USE OF HEAVY PRESSED STEEL, MALLEABLE FITTINGS OR BY WELDING. ALL GATES SHALL HAVE ONE HORIZONTAL SUPPORT EXTENDING THE WIDTH OF THE GATE AT THE MIDPOINTS OF VERTICAL FRAME MEMBERS. THE COMPLETE FRAME SHALL BE RIGID AND HAVE AMPLE STRENGTH TO BE FREE FROM SAG AND TWIST.

(O) HINGES: SHALL BE OF HEAVY PATTERN, OF ADEQUATE STRENGTH FOR GATE, AND WITH LARGE BEARING SURFACES FOR CLAMPING IN POSITION. THE HINGE SHALL BE OF THE PROPER TYPE TO ALLOW FOR THE DESIGNATED DEGREE OF SWING. THE HINGE SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. THE GATES SHALL BE CAPABLE OF BEING OPENED AND CLOSED EASILY BY ONE PERSON.

(P) LATCHES AND STOPS: SHALL BE PROVIDED FOR ALL GATES. GATES SHALL HAVE A DROP BAR LATCH. LATCHES SHALL BE ARRANGED FOR LOCKING. THE STOP FOR DROP BAR LATCHES SHALL BE SET IN CONCRETE AND ENGAGE THE PLUNGER OF THE BAR LATCH.

(S) CAPS: ALL POSTS, EXCEPT ROLL FORMED POSTS AND "T" POSTS SHALL BE CAPPED OVER THE EXTERIOR OF THE POST, AND SHALL CONFORM TO ASTM F626.

CONCRETE REQUIRED FOR THE EMBEDMENT OF ALL POSTS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR CHAIN LINK FENCE.

POSTS SHALL BE SPACED EQUIDISTANT ON A MAXIMUM OF 10' CENTERS.

EXCAVATION FOR POSTS: IN OTHER THAN ROCK SHALL BE OF THE DIMENSIONS INDICATED. IF ROCK IS ENCOUNTERED BEFORE REACHING THE REQUIRED DEPTH, THE EXCAVATION SHALL BE CONTINUED TO THE DEPTH INDICATED OR 1'-6" INTO THE ROCK, WHICHEVER IS LESS, AND SHALL BE A MINIMUM OF 8 INCHES IN DIAMETER.

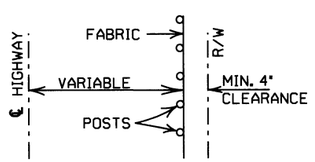
HEIGHT OF FENCE FABRIC	(A) END, PULL CORNER OR BRACE POST	(B) LINE POSTS SIZE	(B) LINE POSTS TIE SPACING	(C) TOP RAIL SIZE	(C) TOP RAIL TIE SPACING	(C) TOP RAIL MIN. LENGTH	(D) TENSION WIRE SIZE	(D) TENSION WIRE TIE SPACING	(E) TENSION BAR SIZE	(E) TENSION BAR LENGTH	(F) TENSION BAR BAND MIN.	(F) TENSION BAR BAND BOLT SIZE	(F) TENSION BAR BAND SPACING	(G) BRACE BAND SIZE	(G) BRACE BAND BOLT SIZE
6' AND LESS	2½" O.D.	2" O.D.	1 TIE EVERY 1'-2" OF FABRIC HEIGHT	1⅝" O.D.	1 TIE EVERY 2'-0"	10'-0"	7 GAUGE COIL SPRING WIRE	1 TIE EVERY 1'-0"	MIN. OF 3/16" X ¾"	MIN. OF 2" LESS THAN FABRIC HEIGHT	MIN. OF ¾" X 0.074	5/16" X 1¼"	1 BAND AT TOP AND BOTTOM 15" MAX. INTERVAL BETWEEN BANDS	MIN. OF ¾" X 0.105	5/16" X 1¼"
OVER 6' TO 12' INCL.	3" O.D.	2½" O.D.													

HEIGHT OF FENCE FABRIC	(H) TIE WIRE	(I) HOG RING	(J) BRACE RAIL SIZE	(J) BRACE RAIL TIE SPACING	(K) TRUSS ROD	(L) FABRIC SIZE	(L) FABRIC MESH	(L) FABRIC SELVAGE	(M) GATE FRAME SIZE	(M) GATE FRAME TIE SPACING	(N) HORIZONTAL SUPPORT SIZE	(N) HORIZONTAL SUPPORT TIE SPACING	(O) HINGE TYPE 180° SWING	(T) GATE POST GATE WIDTH 12' AND LESS	(T) GATE POST GATE WIDTH OVER 12' TO 24' INCL.
6' AND LESS	MIN. OF 12 GA. STEEL OR 9 GA. ALUM.	SAME GAUGE AS FABRIC	1⅝" O.D.	1 TIE EVERY 2'-0"	MIN. OF 5/16" ROUND WITH TIGHTNERS AND FITTINGS	9 GA.	2"	KNUCK-ING AND/OR TWIST-ING	2" O.D.	1 TIE EVERY 1'-0"	2" O.D.	1 TIE EVERY 1'-0"	OFFSET	3" O.D.	4" O.D.
OVER 6' TO 12' INCL.														4" O.D.	

NOTE: POST SIZES SHOWN ARE FOR STEEL. WHERE ALUMINUM IS PROVIDED, LINE POSTS SHALL HAVE AN OUT SIDE DIAMETER OF 2½" FOR FENCE HEIGHT OF 6' AND LESS, AN OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT OF 6' TO 12'. END, PULL, CORNER OR BRACE POSTS SHALL HAVE AN OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT OF 6' AND LESS; AN OUTSIDE DIAMETER OF 3½" FOR FENCE HEIGHTS OF 6' TO 12'. GATE POSTS WHERE GATE WIDTH IS 12' AND LESS SHALL HAVE AN OUTSIDE DIAMETER OF 3½" FOR FENCE HEIGHT OF 6' AND LESS. ALUMINUM TENSION WIRE SHALL BE 0.192" IN DIAMETER. MINIMUM THICKNESS OF MATERIAL FROM WHICH EXPANSION SLEEVES SHALL BE MADE WILL BE 0.078". POSTS AND RAILS MAY HAVE ANY CROSS-SECTIONAL SHAPE THAT WILL MEET THE SPECIFICATIONS.

OTHER DETAILS APPLY TO BOTH STEEL AND ALUMINUM FENCE.

ALL MISCELLANEOUS FITTINGS AND HARDWARE SHALL MEET THE REQUIREMENTS AND PRODUCTION TOLERANCES AS SET FORTH IN THE SPECIFICATIONS.
9 GAUGE ALUMINUM WIRE SHALL BE ACCEPTABLE FOR TIEING FABRIC TO TUBULAR AND ROLL FORMED MEMBERS OF STEEL FENCE.



INSTALLATION MAY BE MODIFIED AS SHOWN IN THE PLANS

TYPICAL INSTALLATION DIAGRAM

POSTS AND RAILS

SIZE O.D.	GRADE 1 AND ALUMINUM ALLOY O.D. INCHES	WALL THICKNESS	LBS. PER LINEAR FT. STEEL	LBS. PER LINEAR FT. ALUMINUM	GRADE 2 O.D. INCHES	WALL THICKNESS	LBS. PER LINEAR FT.
1⅝	1.660	0.140	2.27	0.786	1.660	0.111	1.84
2	1.900	0.145	2.72	0.940	1.900	0.120	2.28
2½	2.375	0.154	3.65	1.264	2.375	0.130	3.11
3	2.875	0.203	5.79	2.004	2.875	0.160	4.64
3½	3.500	0.216	7.58	2.621	3.500	0.160	5.71
4	4.000	0.226	9.11	3.151	4.000	0.160	6.56

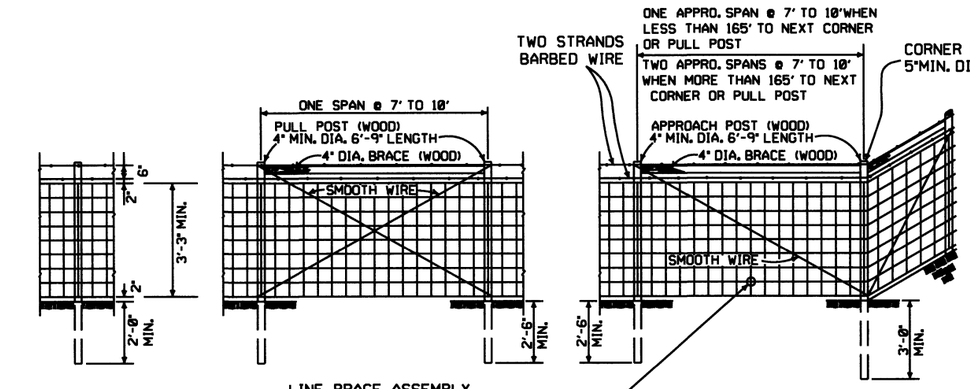
TOLERANCES ON DIMENSIONS AND WEIGHTS ACCORDING TO AASHTO M 181

DATE	REVISION	FILMED
11-17-10	REVISED TRUSS ROD	
12-10-09	REVISED POSTS & RAILS TABLE	
5-21-09	ADDED TABLE & GEN. NOTE (C)	
8-22-02	REVISED NOTES, REMOVED TABLE, & REMOVED FENCE ALTERNATE	
4-3-97	REVISED BRACE RAIL NOTE	
10-18-96	REVISED AASHTO & ASTM REF.	
11-3-94	REVISED NOTE (L)	
10-1-92	DELETED ALTERNATE POST	10-1-92
8-15-91	DELETED ROLL FORMED POST DETAIL & ADDED NOTE	8-15-91 8-15-91
11-30-89	DELETED CLASS CONCRETE	11-30-89
11-17-88	REVISED O.D. SIZES	668-11-17-88
10-30-87	GENERAL REVISIONS	548-10-30-87
4-20-79	REVISED TOP RAIL & TENSION WIRE	695-4-20-79
10-2-72	REVISED AND REDRAWN	530-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

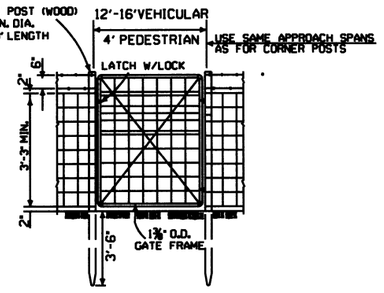
CHAIN LINK FENCE

STANDARD DRAWING WF-3



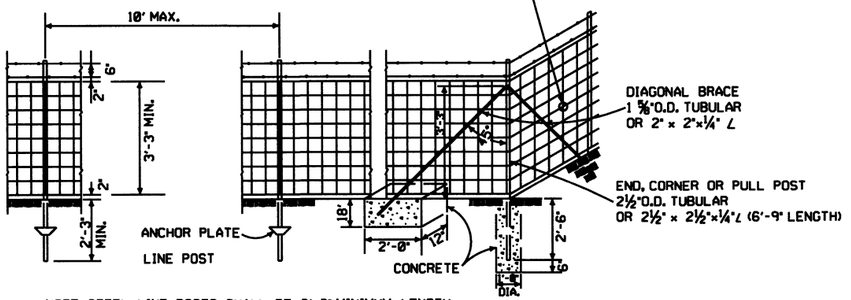
LINE POST
3" MIN. DIA. 6'-3" LENGTH
MAX. SPACING TO BE 10'-0"

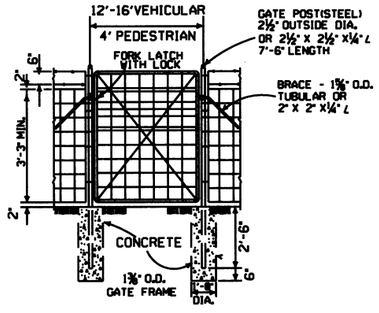
LINE BRACE ASSEMBLY
MAX. SPACING TO BE 330'



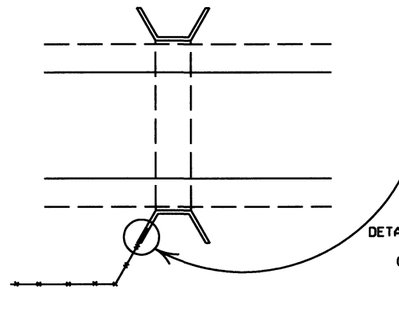
TYPE C FENCE (WOOD POSTS)

OTHER APPROVED TIES WILL BE PERMITTED

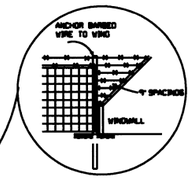




NOTE: STEEL LINE POSTS SHALL BE 6'-6" MINIMUM LENGTH.



NOTE: USE ⅜" X 1½" LAG BOLT & SHIELD OR AS APPROVED BY THE ENGINEER.



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

GENERAL NOTES:

STEEL LINE POSTS SHALL BE PAINTED OR GALVANIZED. TUBULAR END, CORNER, PULL, OR DIAGONAL BRACES MUST CONFORM TO THE DIMENSIONS AND WEIGHTS SPECIFIED ON STANDARD DRAWING WF-3 (CHAIN LINK). APPROVED ALTERNATES ARE ACCEPTABLE.
AN ACCEPTABLE TOLERANCE IN LENGTH OF TUBULAR OR WOODEN POSTS SHALL BE - 1" TO +2".
TUBULAR POSTS MUST BE PAINTED OR GALVANIZED.

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.

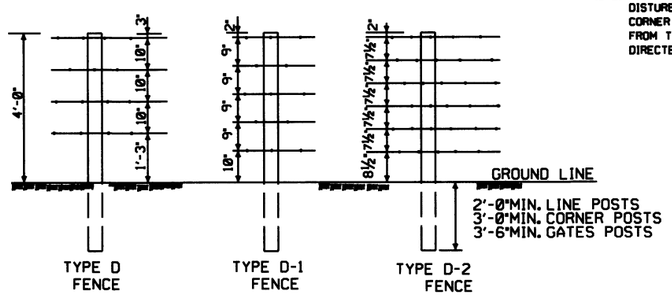
SPLICE FOR BARBED WIRE BETWEEN PULL POST ASSEMBLY SHALL BE BY THE "EYE METHOD" AS DESCRIBED AS FOLLOWS: THE ENDS OF THE BARBED WIRE SHALL BE BENT TO FORM A LOOP. THE LOOPS SHALL BE CONNECTED. AFTER THE LOOPS ARE CONNECTED THE ENDS OF THE WIRE SHALL BE WRAPPED AROUND THE PROJECTING WIRES A MINIMUM OF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

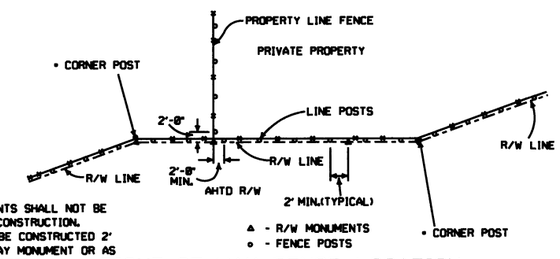
STAPLE AT LEAST TOP, BOTTOM AND ALTERNATE WIRES OF WOVEN FABRIC FOR WOOD LINE POSTS.

TYPE C FENCE (STEEL POSTS)

4 STRANDS BARBED WIRE (D)
5 STRANDS BARBED WIRE (D-1)
6 STRANDS BARBED WIRE (D-2)



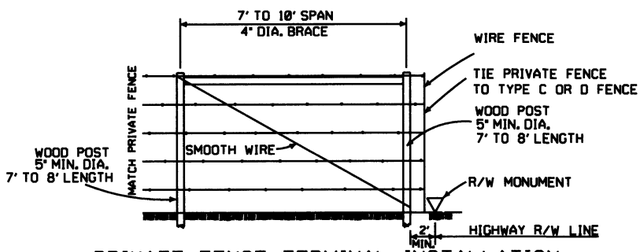
NOTE: SPACING AND SIZE (EXCEPT LENGTH) OF POSTS, APPROACH SPANS, PULL POST ASSEMBLIES, AND CORNER BRACING FOR TYPE D FENCE SHALL CONFORM TO TYPE C FENCE. USE GALVANIZED STAPLES ON WOOD POSTS AND APPROVED FASTENERS ON STEEL POSTS.



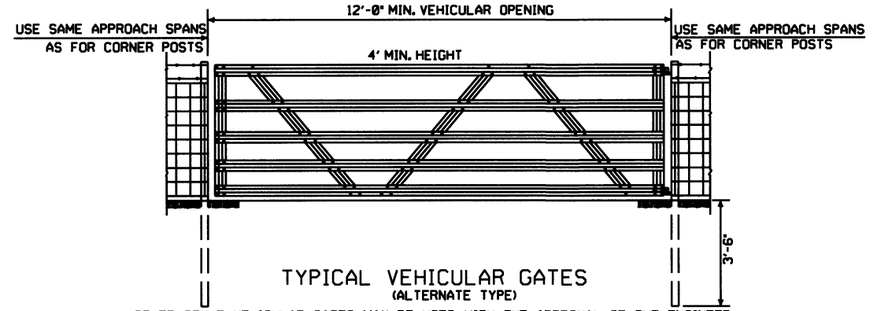
• NOTE: RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY FENCE CONSTRUCTION. CORNER POSTS SHALL BE CONSTRUCTED 2' FROM THE RIGHT-OF-WAY MONUMENT OR AS DIRECTED BY THE ENGINEER.

▲ - R/W MONUMENTS
o - FENCE POSTS

RIGHT-OF-WAY FENCE LOCATION



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.



TYPICAL VEHICULAR GATES
(ALTERNATE TYPE)

OTHER STYLE VEHICULAR GATES MAY BE USED WITH THE APPROVAL OF THE ENGINEER. THE METHOD OF SECURING GATE (LATCH AND/OR LOCK) SHALL MEET THE APPROVAL OF THE ENGINEER.

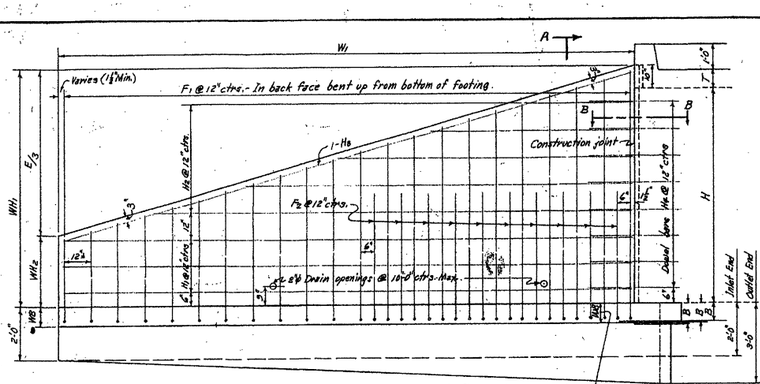
DATE	REVISION	FILMED
8-22-02	REVISED GENERAL NOTES	
10-18-96	REVISED AASHTO	
11-22-95	REVISED R-O-W LOCATION DETAIL	
6-2-94	REVISED BARB WIRE AND ADDED CORNER POST NOTES	6-2-94
8-5-93	REVISED R/W INSTALLATION FENCE	8-5-93
10-1-92	ADDED STAPLE NOTE	10-1-92
8-15-91	ADDED TYPE D-2 FENCE	8-15-91
11-30-89	DELETED CLASS CONCRETE	11-30-89
7-15-88	ADDED SPLICE NOTE	700-7-15-88
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

ARKANSAS STATE HIGHWAY COMMISSION

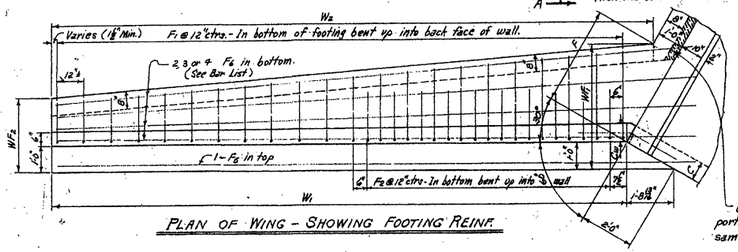
WIRE FENCE TYPE C AND D

STANDARD DRAWING WF-4

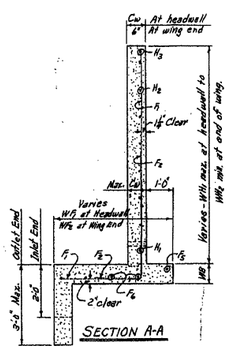
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



REAR ELEVATION OF WING - SHOWING BACK FACE REINF.

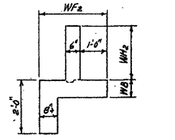


PLAN OF WING - SHOWING FOOTING REINF.



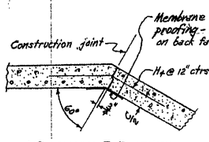
SECTION A-A

WB may be more, equal to, or less than the bottom slab thickness B.

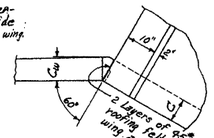


END VIEW OF WING

When B is more than WB, the shaded portion of the apron shall be made the same thickness as the barrel base B.



SECTION B-B THRU CONSTRUCTION JOINT



DETAIL AT TOP OF WING

Note:- Payment for membrane waterproofing and roofing felt to be included in the price bid for Class S Concrete.

WING DIMENSIONS

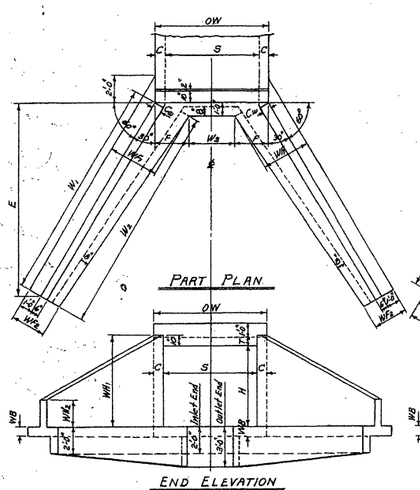
CLEAR HEIGHT OF BOX	THICKNESS OF WING FOOTING	THICKNESS OF WING AT HEADWALL = G	WINGWALL HEIGHTS		WIDTHS OF WING FOOTINGS		PERPENDICULAR FOOTING DIMENSION	PERPENDICULAR DIST. FROM HDWL. TO END OF WING	LENGTH OF WINGWALLS	INSIDE FOOTING DIMENSION	* QUANTITY PER WING CLASS S CONCRETE	
			AT HEADWALL	AT END OF WING	AT HEADWALL	AT END OF WING					INLET END	OUTLET END
H	WB	Cw	WH1	WH2	WF3	WF2	F	E	W1	W2	CU.YD.	CU.YD.
2'	7"	6"	2'-10"	0'-8"	2'-4"	2'-0"	0'-11½"	6'-6"	7'-6"	7'-1½"	0.889	0.986
3'	7"	6"	3'-10"	1'-0"	2'-8"	2'-1½"	1'-3⅜"	8'-6"	9'-3⅜"	9'-2¾"	1.338	1.966
4'	7"	6"	4'-10"	1'-8"	3'-0"	2'-3"	1'-9"	10'-6"	12'-1⅜"	12'-1⅜"	1.868	2.027
5'	7"	6"	5'-10"	1'-8"	3'-4"	2'-4½"	2'-1⅝"	12'-6"	14'-5⅜"	14'-7⅝"	2.578	2.668
		7"	5'-10"	1'-8"	3'-4"	2'-4½"	2'-1⅝"	12'-6"	14'-5⅜"	14'-7⅝"	2.582	2.772
6'	8"	6"	6'-10"	2'-0"	3'-8"	2'-6"	2'-6⅜"	14'-6"	16'-9"	17'-1⅝"	3.940	3.661
		7½"	6'-10"	2'-0"	3'-8"	2'-6"	2'-6⅜"	14'-6"	16'-9"	17'-1⅝"	3.611	3.732
		8"	6'-10"	2'-0"	3'-8"	2'-6"	2'-6⅜"	14'-6"	16'-9"	17'-1⅝"	3.588	3.808
7'	8½"	7½"	7'-10"	2'-8"	4'-2"	2'-7½"	3'-1⅛"	16'-6"	19'-0⅝"	19'-8⅜"	4.505	4.758
		8"	7'-10"	2'-8"	4'-2"	2'-7½"	3'-1⅛"	16'-6"	19'-0⅝"	19'-8⅜"	4.597	4.851
8'	9"	8"	8'-10"	2'-8"	4'-8"	2'-9"	3'-5"	18'-6"	21'-6⅝"	22'-2"	5.761	6.047

* Quantity per wing does not include headwall or that portion of apron or toewall for the length W3.

APRON DIMENSION W3

W3 = (OW - 2F)

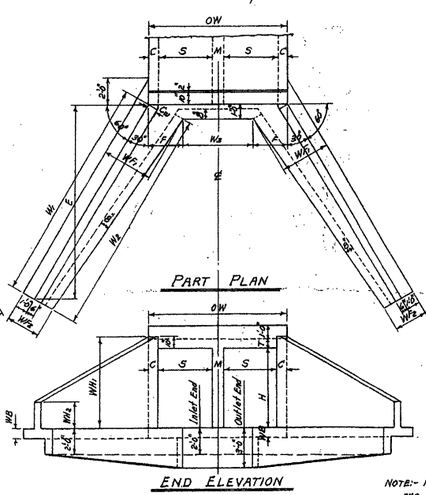
CLEAR SPAN	CLEAR HEIGHT	2 - F FOOTING DIMENSION	SINGLE BARREL CULVERT		DOUBLE BARREL CULVERT		TRIPLE BARREL CULVERT		QUADRUPLE BARREL CULVERT		QUINTUPLE BARREL CULVERT	
S	H	2F	OW	W3	OW	W3	OW	W3	OW	W3	OW	W3
4'	2'	1'-11½"	5'-0"	3'-0⅝"	9'-8"	7'-0⅝"	14'-4"	12'-4⅝"	19'-0"	17'-0⅝"	23'-8"	21'-8⅝"
	3'	2'-0⅜"	5'-0"	2'-3⅝"	9'-8"	6'-11⅛"	14'-4"	11'-7⅝"	19'-0"	16'-3⅝"	23'-8"	20'-11⅝"
	4'	2'-0⅜"	5'-0"	1'-6"	9'-8"	6'-2"	14'-4"	10'-10"	19'-0"	15'-6"	23'-8"	20'-2"
	5'	2'-0⅜"	5'-0"	0'-8⅜"	9'-8"	5'-4⅜"	14'-4"	10'-0⅜"	19'-0"	14'-8⅜"	23'-8"	19'-8⅜"
	6'	2'-0⅜"	5'-2"	0'-11"	9'-11"	4'-10⅝"	14'-8"	9'-7⅛"	19'-5"	14'-4⅝"	24'-2"	19'-11⅝"
5'	3'	2'-0⅜"	6'-0"	3'-3⅛"	11'-8"	8'-11⅛"	17'-4"	14'-7⅝"	23'-0"	20'-3⅛"	28'-8"	25'-1⅛"
	4'	3'-6"	6'-0"	2'-6"	11'-8"	8'-2"	17'-4"	13'-10"	23'-0"	19'-6"	28'-8"	25'-2"
	5'	4'-11⅝"	6'-0"	1'-8⅜"	11'-8"	7'-4⅜"	17'-4"	13'-0⅜"	23'-0"	18'-8⅜"	28'-8"	24'-8⅜"
	6'	5'-10⅜"	6'-2"	1'-1⅝"	11'-11"	6'-10⅛"	17'-8"	12'-7⅝"	23'-5"	18'-4⅝"	29'-2"	24'-11⅝"
	7'	6'-11⅝"	6'-5"	0'-10⅝"	12'-1"	6'-3⅛"	17'-11"	11'-11⅝"	23'-9"	17'-11⅝"	29'-7"	25'-4⅝"
6'	3'	2'-0⅜"	7'-0"	4'-3⅜"	13'-8"	10'-11⅛"	20'-4"	17'-7⅝"	27'-0"	24'-3⅛"	33'-8"	30'-11⅛"
	4'	3'-6"	7'-0"	3'-6"	13'-8"	10'-2"	20'-4"	16'-10"	27'-0"	23'-6"	33'-8"	30'-2"
	5'	4'-11⅝"	7'-0"	2'-8⅜"	13'-8"	9'-4⅜"	20'-4"	16'-0⅜"	27'-0"	22'-8⅜"	33'-8"	29'-8⅜"
	6'	5'-10⅜"	7'-2"	2'-1⅛"	13'-11"	8'-10⅝"	20'-8"	15'-7⅝"	27'-5"	22'-2⅛"	34'-2"	29'-1⅛"
	7'	6'-11⅝"	7'-5"	1'-10⅝"	14'-1"	7'-10⅛"	20'-11"	14'-11⅝"	27'-9"	21'-6⅛"	34'-7"	28'-5⅛"
	8'	7'-11"	7'-8"	2'-0"	14'-5"	6'-11"	21'-0"	13'-8"	27'-10"	20'-6"	34'-8"	27'-10"
7'	4'	3'-6"	8'-0"	4'-6"	15'-8"	12'-2"	23'-4"	19'-10"	31'-0"	27'-6"	38'-8"	35'-2"
	5'	4'-11⅝"	8'-0"	3'-8⅜"	15'-8"	11'-4⅜"	23'-4"	19'-0⅜"	31'-0"	26'-8⅜"	38'-8"	34'-8⅜"
	6'	5'-10⅜"	8'-2"	3'-1⅛"	15'-11"	10'-9⅝"	23'-8"	18'-7⅛"	31'-5"	26'-2⅛"	39'-2"	34'-1⅛"
	7'	6'-11⅝"	8'-5"	2'-10⅝"	16'-1"	9'-10⅛"	23'-11"	17'-11⅝"	31'-9"	25'-6⅛"	39'-7"	33'-5⅛"
	8'	7'-11"	8'-8"	3'-0"	16'-5"	8'-11"	24'-0"	16'-8"	31'-10"	24'-6"	39'-8"	32'-10"
9'	5'	4'-11⅝"	10'-2"	5'-0⅜"	19'-11"	15'-7⅜"	29'-8"	25'-0⅜"	39'-5"	35'-1⅜"	49'-2"	44'-10⅜"
	6'	5'-10⅜"	10'-3"	4'-3⅛"	20'-1"	15'-0⅝"	29'-11"	24'-1⅝"	39'-9"	34'-3⅛"	49'-7"	43'-11⅛"
	7'	6'-11⅝"	10'-5"	4'-0⅝"	20'-1"	14'-0⅛"	29'-11"	23'-1⅝"	39'-9"	33'-3⅛"	49'-7"	42'-11⅛"
	8'	7'-11"	10'-8"	4'-0"	20'-2"	13'-0"	30'-0"	22'-0"	39'-10"	32'-2"	49'-8"	41'-10"
10'	5'	4'-11⅝"	11'-2"	6'-0⅜"	21'-11"	17'-7⅜"	32'-8"	28'-4⅜"	43'-5"	39'-1⅜"	54'-2"	49'-10⅜"
	6'	5'-10⅜"	11'-3"	5'-3⅛"	22'-1"	17'-0⅝"	32'-11"	27'-5⅝"	43'-9"	38'-3⅛"	54'-7"	48'-11⅛"
	7'	6'-11⅝"	11'-5"	5'-0⅝"	22'-1"	16'-0⅛"	32'-11"	26'-5⅝"	43'-9"	37'-3⅛"	54'-7"	47'-11⅛"
	8'	7'-11"	11'-8"	5'-0"	22'-2"	14'-11"	33'-0"	25'-4"	43'-10"	36'-2"	54'-8"	46'-10"
11'	6'	5'-0⅜"	12'-4"	7'-3⅛"	24'-2"	19'-1⅝"	36'-0"	30'-11⅛"	47'-10"	43'-3⅛"		
	7'	6'-2⅛"	12'-4"	6'-11⅝"	24'-2"	18'-1⅛"	36'-0"	29'-11⅝"	47'-10"	42'-3⅛"		
	8'	7'-2"	12'-4"	6'-10"	24'-2"	17'-0"	36'-0"	28'-8"	47'-10"	40'-6"		
12'	6'	5'-0⅜"	13'-0"	7'-3⅛"	25'-2"	19'-1⅝"	37'-4"	30'-11⅛"	49'-5"	43'-3⅛"		
	7'	6'-2⅛"	13'-0"	7'-1⅝"	26'-2"	19'-1⅛"	38'-0"	32'-0⅛"	50'-10"	45'-7⅛"		
	8'	7'-2"	13'-0"	7'-0"	26'-2"	18'-10"	39'-0"	31'-8"	51'-10"	44'-6"		



PART PLAN

END ELEVATION

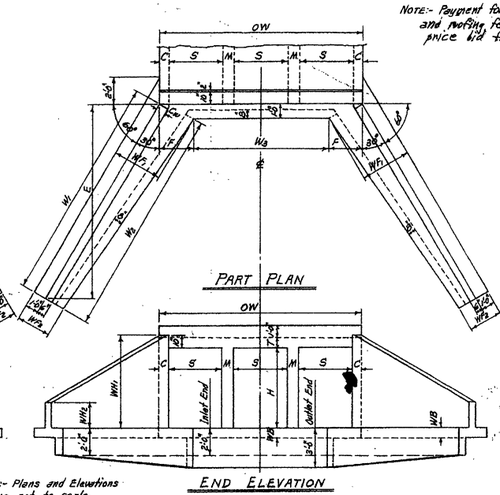
SINGLE BARREL CULVERT



PART PLAN

END ELEVATION

DOUBLE BARREL CULVERT

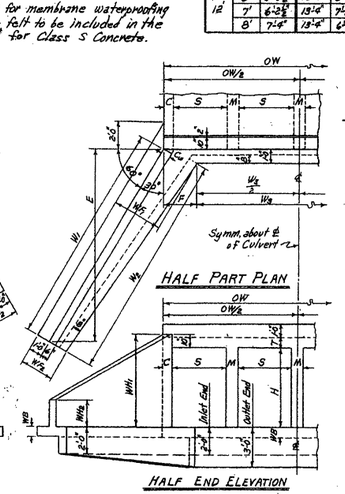


PART PLAN

END ELEVATION

TRIPLE BARREL CULVERT

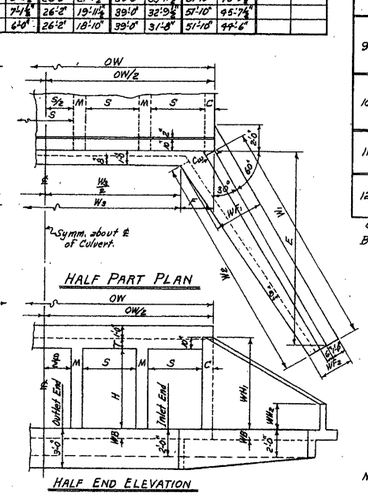
NOTE:- Plans and Elevations are not to scale.



HALF PART PLAN

HALF END ELEVATION

QUADRUPLE BARREL CULVERT



HALF PART PLAN

HALF END ELEVATION

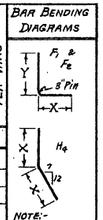
QUINTUPLE BARREL CULVERT

MEMBRANE:- A membrane waterproofing 12" wide, consisting of three mappings of waterproofing asphalt and two alternate layers of treated cotton fabric shall be applied to the back face of wing to cover the construction joints in wings.

BAR LIST FOR ONE WING - 4 REQUIRED

CLEAR HEIGHT H	F1 Bent: In bottom of footing, bent up into back face of wing. One bar of each length. Size	Spacing	No. Reqd	Lengths Vary Min.	Lengths Vary Max.	X Min.	X Max.	Y Min.	Y Max.	F2 Bent: In bottom of footing, bent up into back face of wing. Alt. with F1 bars. Size	Spacing	No. Reqd	Length	X	Y	F3 Straight: Longitudinal in top of wing footing heel. Size	No. Reqd	Length	F4 Straight: Longitudinal in bottom of wing footing toe. Size	No. Reqd	Length	H1 Straight: Horizontal in back face of wing. Size	Spacing	No. Reqd	Length	H2 Straight: Horizontal in back face of wing. One bar of each length. Size	Spacing	No. Reqd	Lengths Vary Max.	Lengths Vary Min.	H3 Straight: In back face of wing at top-on slope. Size	No. Reqd	Length	H4 Bent: Dowels thru construction joint at headwall. Size	Spacing	No. Reqd	Length	X	QUANTITY REINFORCING STEEL PER WING LB.
2'	#3	12"	8	1'-6"	3'-10"	0'-8"	1'-0"	0'-11"	2'-11"	—	—	—	—	—	—	#3	1	9'-8"	#3	2	8'-6"	#3	12"	1	7'-2"	#3	12"	2	2'-8"	1'-9"	#8	1	7'-4"	#3	12"	3	2'-8"	1'-9"	27.0
3'	#3	12"	10	2'-2"	5'-2"	0'-10"	1'-3"	1'-5"	4'-0"	—	—	—	—	—	—	#3	1	12'-0"	#3	2	11'-0"	#3	12"	1	9'-6"	#3	12"	2	7'-6"	4'-0"	#8	1	9'-8"	#9	12"	3	2'-8"	1'-9"	41.1
4'	#3	12"	13	2'-9"	6'-6"	0'-11"	1'-7"	1'-8"	5'-0"	—	—	—	—	—	—	#3	1	14'-3"	#3	3	13'-6"	#3	12"	1	11'-10"	#3	12"	3	10'-11"	4'-0"	#3	1	12'-2"	#3	12"	4	2'-8"	1'-9"	63.7
5'	#3	12"	15	3'-11"	7'-10"	1'-1"	1'-11"	1'-11"	6'-0"	#3	12"	4	3'-6"	1'-1"	2'-6"	#3	1	16'-9"	#3	3	16'-0"	#3	12"	2	14'-2"	#3	12"	3	10'-11"	4'-0"	#3	1	14'-7"	#3	12"	5	2'-8"	1'-9"	89.5
6'	#4	12"	17	3'-6"	9'-3"	1'-2"	2'-3"	2'-5"	7'-1"	#3	12"	4	4'-6"	1'-6"	3'-3"	#3	1	19'-0"	#3	3	18'-6"	#3	12"	2	16'-6"	#3	12"	4	14'-4"	4'-0"	#3	1	17'-0"	#3	12"	6	2'-8"	1'-9"	145.8
7'	#4	12"	20	3'-9"	10'-9"	1'-3"	2'-9"	2'-7"	8'-1"	#4	12"	7	5'-6"	1'-7"	4'-0"	#4	1	21'-6"	#4	4	21'-0"	#4	12"	2	18'-9"	#4	12"	5	17'-9"	4'-0"	#4	1	19'-5"	#4	12"	7	3'-6"	1'-9"	283.7
8'	#4	12"	22	4'-4"	12'-5"	1'-5"	3'-2"	3'-0"	9'-2"	#4	12"	10	6'-6"	1'-10"	4'-9"	#4	1	23'-6"	#4	4	23'-9"	#4	12"	3	21'-1"	#4	12"	5	17'-9"	4'-0"	#4	1	21'-10"	#4	12"	8	3'-6"	1'-9"	356.4

BAR BENDING DIAGRAMS



NOTE:- Dimensions are to bar centers.

REVISIONS:- Membrane added. 5-10-66 W.C.H.

Designed By:- W.C.H. 8-20-62.
Drawn By:- W.C.H. 12-4-62.
Quantities By:- W.C.H. 12-14-62.
Checked By:- RHS. 1-3-63
Checked By:- RHS. 1-31-63
Rechecked By:- RHS. 3-29-63

QUANTITIES

CLEAR SPAN	CLEAR HEIGHT	THICKNESS OF WING AT HEADWALL	THICKNESS OF WING FOOTING	REINFORCING STEEL - FOR 4 WINGS *	CLASS S CONCRETE - 4 WINGS				
					HEADWALLS, WINGWALLS, FOOTINGS, TOE WALLS AND APRONS				
					SINGLE BARREL CULVERT	DOUBLE BARREL CULVERT	TRIPLE BARREL CULVERT	QUADRUPLE BARREL CULVERT	QUINTUPLE BARREL CULVERT
S	H	Cw	WB	LB.	CU.YD.	CU.YD.	CU.YD.	CU.YD.	CU.YD.
4'	2'	6"	7"	108.0	4.50	5.46	6.42	7.38	8.34
	3'	6"	7"	169.0	6.26	7.21	8.17	9.13	10.09
	4'	6"	7"	259.6	8.33	9.28	10.24	11.20	12.16
	5'	6"	7"	357.8	10.72	11.68	12.64	13.60	14.56
	6'	7"	8"	583.1	14.55	15.53	16.52	17.51	18.49
5'	3'	6"	7"	169.9	6.97	7.63	8.79	9.96	11.12
	4'	6"	7"	259.6	8.54	9.70	10.87	10.03	12.20
	5'	6"	7"	357.8	10.94	12.10	13.26	14.93	15.59
	6'	7"	8"	583.1	14.77	15.96	17.15	18.34	19.54
	7'	7½	8½	1139.6	18.94	20.15	21.37	22.59	23.80
6'	3'	6"	7"	169.9	6.68	8.06	9.42	10.80	12.18
	4'	6"	7"	259.6	8.75	10.14	11.49	12.87	14.25
	5'	6"	7"	357.8	11.15	12.53	13.89	15.27	16.65
	6'	7"	8"	583.1	14.98	16.39	17.78	19.18	20.59
	7'	7½	8½	1139.6	19.16	20.58	22.00	23.43	24.86
	8'	8"	9"	1925.6	24.09	25.53	26.96	28.39	29.83
7'	4'	6"	7"	259.6	8.97	10.58	12.15	13.76	15.35
	5'	6"	7"	357.8	11.96	12.97	14.58	16.15	17.75
	6'	7"	8"	583.1	15.20	16.82	18.42	20.04	21.64
	7'	7½	8½	1139.6	19.38	21.02	22.69	24.28	25.92
	8'	8"	9"	1925.6	24.32	25.97	27.60	29.25	30.89
8'	4'	6"	7"	259.6	9.19	11.03	12.82	14.65	16.45
	5'	7"	7"	357.8	12.03	13.89	15.70	17.55	19.36
	6'	7"	8"	583.1	15.92	17.87	19.69	20.93	22.75
	7'	7½	8½	1139.6	19.59	21.46	23.30	25.16	26.99
	8'	8"	9"	1925.6	24.52	26.47	28.29	30.11	31.96
9'	5'	7"	7"	357.8	12.26	14.89	16.87	18.45	20.47
	6'	7½	8"	583.1	15.94	18.04	20.09	22.19	24.23
	7'	7½	8½	1139.6	19.81	21.91	23.96	26.06	28.10
	8'	8"	9"	1925.6	24.76	26.86	28.91	31.00	33.05
10'	5'	7"	7"	357.8	12.49	14.80	17.05	19.24	21.52
	6'	7½	8"	583.1	16.17	18.50	20.77	22.99	25.28
	7'	7½	8½	1139.6	20.09	22.37	24.64	26.87	29.15
	8'	8"	9"	1925.6	24.98	27.31	29.58	31.81	34.10
11'	6'	8"	8"	583.1	16.69	19.27	21.76	24.23	
	7'	8"	8½	1139.6	20.64	23.22	25.71	28.18	
	8'	8"	9"	1925.6	25.19	27.77	30.27	32.74	
12'	6'	8"	8"	583.1	16.92	19.75	22.95	25.18	
	7'	8"	8½	1139.6	20.87	23.69	26.90	29.13	
	8'	8"	9"	1925.6	25.42	28.25	30.96	33.69	

* For reinforcing steel in Headwalls and Aprons, See Details of Standard Barrel Sections for R.C. Box Culverts for the desired Span and Height.

GENERAL NOTES:-

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾ chamfers.

REINFORCING STEEL:- Reinforcing steel to be deformed bars of intermediate or hard grade.

CONSTRUCTION JOINTS:- Construction joints between wingwall, footings and sidewalls shall be only where shown on plans.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.

UNIT STRESSES:-

Class S Concrete (n=10) 1200#/□"
Reinforcing Steel 20,000#/□"

NOTE:- This drawing to be used in conjunction with Standard Barrel Sections, Drawing Nos. as listed below.

SINGLES	DOUBLES	TRIPLES	QUADRUPLES	QUINTUPLES
R-100X-0	R-200X-0	R-300X-0	R-400X-0	R-500X-0
R-100X-X1	R-200X-X1	R-300X-X1	R-400X-X1	R-500X-X1
R-100X-X2	R-200X-X2	R-300X-X2	R-400X-X2	
	R-200X-X3	R-300X-X3		

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD WINGS FOR REINFORCED CONCRETE BOX CULVERTS

4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS — 3:1 SLOPES

SINGLES, DOUBLES, TRIPLES, QUADRUPLES & QUINTUPLES. — ALL DEPTHS OF COVER FOR H = 8'-0" OR LESS

STANDARD DRAWING NO. W-X003-1

MYLAR

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					

BAR LIST FOR BARREL SECTION 60:0" IN LENGTH

DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"a" bars STRAIGHT In Top and Bottom Slabs of Barrel. 2 Add'l In Apron and Headwall- Each. SIZE	SPACING	NUMBER REQ'D 3:1	NUMBER REQ'D 4:1	LENGTH
0'-0" TO 5'-0" MAXIMUM	1 @ 4'	2'	#5	13"	120	120	4'-3"
		3'			120	120	4'-3"
		4'			120	120	4'-3"
		5'			120	120	4'-3"
		6'			120	120	4'-11"
	1 @ 5'	3'	#6	13"	120	120	5'-3"
		4'			120	120	5'-3"
		5'			120	120	5'-3"
		6'			120	120	5'-11"
		7'			120	120	6'-10"
	1 @ 6'	3'	#6	12"	128	128	6'-3"
		4'			128	128	6'-3"
		5'			128	128	6'-3"
		6'			128	128	6'-11"
		7'			128	128	7'-10"
		8'			128	128	7'-7"
	1 @ 7'	4'	#6	11"	140	140	7'-3"
		5'			140	140	7'-3"
		6'			140	140	7'-11"
		7'			140	140	8'-0"
		8'			140	140	8'-7"
		9'			140	140	8'3"
	1 @ 8'	4'	#7	12"	128	128	8'-9"
		5'			128	128	8'-11"
		6'			128	128	8'-11"
		7'			128	128	9'-0"
		8'			128	128	9'-1"
		9'			128	128	9'3"
		10'			128	128	9'5"
	1 @ 9'	5'	#7	11"	140	140	9'-11"
		6'			140	140	10'-0"
		7'			140	140	10'-0"
		8'			140	140	10'-1"
		9'			140	140	10'-3"
		10'			140	140	10'-5"
		11'			140	140	10'-7"
	1 @ 10'	5'	#7	11"	128	128	10'-11"
		6'			128	128	11'-0"
		7'			128	128	11'-0"
		8'			128	128	11'-1"
		9'			128	128	11'-3"
		10'			128	128	11'-5"
		11'			128	128	11'-7"
		12'			128	128	11'-9"
	1 @ 11'	6'	#7	11"	140	140	12'-1"
		7'			140	140	12'-1"
		8'			140	140	12'-1"
		9'			140	140	12'-3"
		10'			140	140	12'-5"
		11'			140	140	12'-7"
		12'			140	140	12'-9"
	1 @ 12'	6'	#8	12"	128	128	13'-1"
		7'			128	128	13'-1"
		8'			128	128	13'-1"
		9'			128	128	13'-3"
		10'			128	128	13'-5"
		11'			128	128	13'-7"
		12'			128	128	13'-9"

DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"b" bars BENT - See Diagram below. In Top and Bottom Slabs of Barrel. Alternate with "a" bars. SIZE	SPACING	NUMBER REQ'D 3:1	NUMBER REQ'D 4:1	LENGTH	X
0'-0" TO 5'-0" MAXIMUM	1 @ 4'	2'	#6	15"	110	110	5'-10"	4'-8"
		3'			110	110	5'-10"	4'-8"
		4'			110	110	5'-10"	4'-8"
		5'			110	110	5'-10"	4'-8"
		6'			110	110	6'-0"	4'-10"
	1 @ 5'	3'	#6	13"	110	110	6'-10"	5'-8"
		4'			110	110	6'-10"	5'-8"
		5'			110	110	6'-10"	5'-8"
		6'			110	110	7'-0"	5'-10"
		7'			110	110	7'-1"	5'-11"
	1 @ 6'	3'	#6	12"	118	118	7'-10"	6'-8"
		4'			118	118	7'-10"	6'-8"
		5'			118	118	7'-10"	6'-8"
		6'			118	118	8'-0"	6'-10"
		7'			118	118	8'-1"	6'-11"
		8'			118	118	8'-2"	7'-0"
	1 @ 7'	4'	#6	11"	130	130	8'-10"	7'-8"
		5'			130	130	8'-10"	7'-8"
		6'			130	130	9'-0"	7'-10"
		7'			130	130	9'-2"	7'-11"
		8'			130	130	9'-4"	8'-0"
		9'			130	130	9'-6"	8'-2"
	1 @ 8'	4'	#6	12"	118	118	9'-10"	8'-8"
		5'			118	118	10'-0"	8'-10"
		6'			118	118	10'-0"	8'-10"
		7'			118	118	10'-1"	8'-11"
		8'			118	118	10'-2"	9'-0"
		9'			118	118	10'-4"	9'-2"
		10'			118	118	10'-5"	9'-4"
	1 @ 9'	5'	#6	11"	130	130	11'-0"	9'-10"
		6'			130	130	11'-1"	9'-11"
		7'			130	130	11'-1"	9'-11"
		8'			130	130	11'-2"	10'-0"
		9'			130	130	11'-3"	10'-2"
		10'			130	130	11'-5"	10'-3"
		11'			130	130	11'-6"	10'-5"
	1 @ 10'	5'	#6	11"	118	118	12'-2"	10'-10"
		6'			118	118	12'-3"	10'-11"
		7'			118	118	12'-3"	10'-11"
		8'			118	118	12'-4"	11'-0"
		9'			118	118	12'-6"	11'-2"
		10'			118	118	12'-8"	11'-4"
		11'			118	118	12'-10"	11'-6"
		12'			118	118	13'-0"	11'-8"
	1 @ 11'	6'	#6	11"	130	130	13'-4"	12'-0"
		7'			130	130	13'-4"	12'-0"
		8'			130	130	13'-4"	12'-0"
		9'			130	130	13'-6"	12'-2"
		10'			130	130	13'-8"	12'-4"
		11'			130	130	13'-10"	12'-6"
		12'			130	130	14'-0"	12'-8"
	1 @ 12'	6'	#7	12"	118	118	14'-4"	13'-0"
		7'			118	118	14'-4"	13'-0"
		8'			118	118	14'-4"	13'-0"
		9'			118	118	14'-6"	13'-2"
		10'			118	118	14'-8"	13'-4"
		11'			118	118	14'-10"	13'-6"
		12'			118	118	15'-0"	13'-8"

DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"d" bars STRAIGHT. Longitudinal in Top Slab of Barrel SIZE	SPACING	NO. REQ'D	LENGTH
0'-0" TO 5'-0" MAXIMUM	1 @ 4'	2'	#5	10½"	6	
		3'			6	
		4'			6	
		5'			6	
		6'			6	
	1 @ 5'	3'	#5	10½"	7	
		4'			7	
		5'			7	
		6'			7	
		7'			7	
	1 @ 6'	3'	#5	10½"	8	
		4'			8	
		5'			8	
		6'			8	
		7'			8	
		8'			8	
	1 @ 7'	4'	#5	10½"	9	
		5'			9	
		6'			9	
		7'			9	
		8'			9	
		9'			9	
	1 @ 8'	4'	#5	10"	11	
		5'			11	
		6'			11	
		7'			11	
		8'			11	
		9'			11	
		10'			11	
	1 @ 9'	5'	#5	10"	12	
		6'			12	
		7'			12	
		8'			12	
		9'			12	
		10'			12	
		11'			12	
	1 @ 10'	5'	#5	10"	13	
		6'			13	
		7'			13	
		8'			13	
		9'			13	
		10'			13	
		11'			13	
		12'			13	
	1 @ 11'	6'	#5	9½"	15	
		7'			15	
		8'			15	
		9'			15	
		10'			15	
		11'			15	
		12'			15	
	1 @ 12'	6'	#5	9½"	16	
		7'			16	
		8'			16	
		9'			16	
		10'			16	
		11'			16	
		12'			16	

DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"d" bars STRAIGHT. Longitudinal in Sidewalls SIZE	SPACING	NO. REQ'D	LENGTH
0'-0" TO 5'-0" MAXIMUM	1 @ 4'	2'	#4	12"	4	
		3'			6	
		4'			8	
		5'			10	
		6'			12	
	1 @ 5'	3'	#4	12"	6	
		4'			8	
		5'			10	
		6'			12	
		7'			14	
	1 @ 6'	3'	#4	12"	6	
		4'			8	
		5'			10	
		6'			12	
		7'			14	
		8'			16	
	1 @ 7'	4'	#4	12"	8	
		5'			10	
		6'			12	
		7'			14	
		8'			16	
		9'			18	
	1 @ 8'	4'	#4	12"	8	
		5'			10	
		6'			12	
		7'			14	
		8'			16	
		9'			18	
		10'			20	
	1 @ 9'	5'	#4	12"	10	
		6'			12	
		7'			14	
		8'			16	
		9'			18	
		10'			20	
		11'			22	
	1 @ 10'	5'	#4	12"	10	
		6'			12	
		7'			14	
		8'			16	
		9'			18	
		10'			20	
		11'			22	
		12'			24	
	1 @ 11'	6'	#4	12"	12	
		7'			14	
		8'			16	
		9'			18	
		10'			20	
		11'			22	
		12'			24	
	1 @ 12'	6'	#4	12"	12	
		7'			14	
		8'			16	
		9'			18	
		10'			20	
		11'			22	
		12'			24	

DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"e" bars Longitudinal in Bottom Slab of Barrel SIZE	SPACING	NO. REQ'D	LENGTH
0'-0" TO 5'-0" MAXIMUM	1 @ 4'	2'	#4	12"	5	
		3'			5	
		4'			5	
		5'			5	
		6'			6	
	1 @ 5'	3'	#4	12"	6	
		4'			6	
		5'			6	
		6'			6	
		7'			7	
	1 @ 6'	3'	#4	12"	7	
		4'			7	
		5'			7	
		6'			7	
		7'			7	
		8'			8	
	1 @ 7'	4'	#4	12"	8	
		5'			8	
		6'			8	
		7'			8	
		8'			8	
		9'			9	
	1 @ 8'	4'	#4	12"	9	
		5'			9	
		6'			9	
		7'			9	
		8'			9	
		9'			9	
		10'			10	
	1 @ 9'	5'	#4	12"	10	
		6'			10	
		7'			10	
		8'			10	
		9'			10	
		10'			10	
		11'			10	
	1 @ 10'	5'	#4	12"	11	
		6'			11	
		7'			11	
		8'			11	
		9'			11	
		10'			11	
		11'			11	
		12'			11	
	1 @ 11'	6'	#4	12"	12	
		7'			12	
		8'			12	
		9'			12	
		10'			12	
		11'			12	
		12'			12	
	1 @ 12'	6'	#4	12"	13	
		7'			13	
		8'			13	
		9'			13	
		10'			13	
		11'			13	
		12'			13	

DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	"f" bars STRAIGHT Verticals in Side walls SIZE	SPACING	NUMBER REQ'D 3:1	NUMBER REQ'D 4:1	LENGTH
0'-0" TO 5'-0" MAXIMUM	1 @ 4'	2'	#4	12"	120	120	2'-11"
		3'			120	120	3'-11"
		4'			120	120	4'-11"
		5'			120	120	5'-11"
		6'			120	120	6'-11"
	1 @ 5'	3'	#4	12"	120	120	4'-0"
		4'			120	120	5'-0"
		5'			120	120	6'-0"
		6'			120	120	7'-0"
		7'			120	120	8'-0"
	1 @ 6'	3'	#4	12"	120	120	4'-1"
		4'			120	120	5'-1"
		5'			120	120	6'-1"
		6'			120	120	7'-1"
		7'			120	120	8'-1"
		8'			120	120	9'-1"
	1 @ 7'	4'	#4	12"	120	120	5'-2"
		5'			120	120	6'-2"
		6'			120	120	7'-2"
		7'			120	120	8'-2"
		8'			120	120	9'-2"
		9'			120	120	10'-2"
	1 @ 8'	4'	#4	12"	120	120	5'-9"
		5'			120	120	6'-9"
		6'			120	120	7'-9"
		7'			120	120	8'-9"
		8'			120	120	9'-9"
		9'			120	120	10'-9"
		10'			120	120	11'-9"
	1 @ 9'	5'	#4	12"	120	120	6'-5"
		6'			120	120	7'-5"
		7'			120	120	8'-5"
		8'			120	120	9'-5"
		9'			120	120	10'-5"
		10'			120	120	11'-5"
		11'			120	120	12'-5"
	1 @ 10'	5'	#5	12"	120	120	6'-6"
		6'			120	120	7'-6"
		7'			120	120	8'-6"
		8'			120	120	9'-6"
		9'			120	120	10'-6"
		10'			120	120	11'-6"
		11'			120	120	12'-6"
		12'			120	120	13'-6"
	1 @ 11'	6'	#5	12"	120	120	7'-7"
		7'			120	120	8'-7"
		8'			120	120	9'-7"
		9'			120	120	10'-7"
		10'			120	120	11'-7"
		11'			120	120	12'-7"
		12'			120	120	13'-7"
	1 @ 12'	6'	#5	12"	120	120	7'-9"
		7'			120	120	8'-9"
		8'			120	120	9'-9"
		9'			120	120	10'-9"
		10'			120	120	11'-9"
		11'			120	120	12'-9"
		12'			120	120	13'-9"

BAR SIZE	PIN DIAM.	K	ADD FOR 2 HOOKS	BENDING DIAGRAM Bars "b".
#6	3"	5"	1'-2"	K, Pin Diam., X
#7	3½"	5¾"	1'-9"	

NOTE:- Dimensions are to centers of bars.

DOWEL BARS FOR TWO HEADWALLS

SPAN	SIZE	SPACING	NO. REQ'D	LENGTH	X
4'	#4	11"/12	12	2'-6"	1'-3"
5'	#4	11"/12	14	2'-7"	1'-3⅝"
6'	#4	11"/12	16	2'-8"	1'-4"
7'	#4	11"/12	18	2'-9"	1'-4⅜"
8'	#4	11⅛"/12	20	2'-11"	1'-5⅛"
9'	#4	11⅛"/12	22	3'-0"	1'-6"
10'	#4	11⅛"/12	24	3'-1"	1'-6⅛"
11'	#4	12"/12	26	3'-2"	1'-7"
12'	#4	12"/12	28	3'-3"	1'-7½"

Bars "h" Dowel bars in Headwalls. (x, 12, X)

Designed By:- W.C.H. 1-23-63. Checked By:- RWS 5-24-63
Drawn By:- W.C.H. 2-8-63. Checked By:- RWS 5-24-63
Quantities By:- W.C.H. 2-12-63. Checked By:- RWS 5-24-63

DIMENSIONS

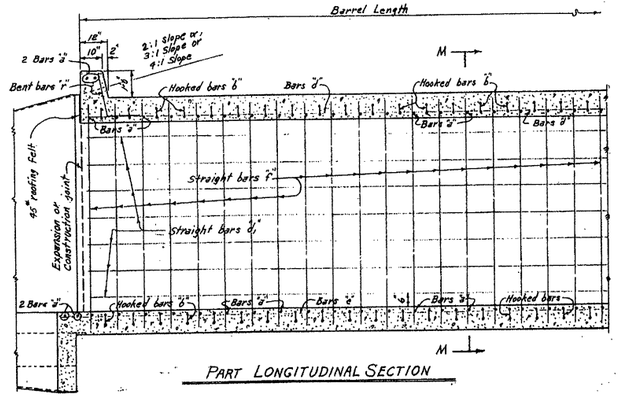
BARREL DIMENSIONS

MAX. DESIGN DEPTH OF COVER D	CLEAR SPAN S	CLEAR HEIGHT H	50 Ft. OPENING A	OVERALL WIDTH OW	THICKNESS OF TOP SLAB T	THICKNESS OF SIDEWALLS C	THICKNESS OF BOTTOM SLAB B	OVERALL HEIGHT OH
5'-0"	1 @ 4'	2'	8	5'-0"	7"	6"	6½"	3'-1½"
		3'	12	5'-0"		6"		3'-1½"
		4'	16	5'-0"		6"		5'-1½"
		5'	20	5'-0"		6"		6'-1½"
		6'	24	5'-2"		7"		7'-1½"
	1 @ 5'	3'	15	6'-0"	7⅞"	6"	7"	4'-2½"
		4'	20	6'-0"		6"		5'-2½"
		5'	25	6'-0"		6"		6'-2½"
		6'	30	6'-2"		7"		7'-2½"
		7'	35	6'-3"		7½"		8'-2½"
	1 @ 6'	3'	18	7'-0"	8"	6"	7½"	4'-3½"
		4'	24	7'-0"		6"		5'-3½"
		5'	30	7'-0"		6"		6'-3½"
		6'	36	7'-2"		7"		7'-3½"
		7'	42	7'-3"		7½"		8'-3½"
		8'	48	7'-4"		8"		9'-3½"
	1 @ 7'	4'	28	8'-0"	8½"	6"	8½"	5'-5"
		5'	35	8'-0"		6"		6'-5"
		6'	42	8'-2"		7"		7'-5"
		7'	49	8'-3"		7½"		8'-5"
		8'	56	8'-4"		8"		9'-5"
		9'	63	8'-6"		9"		10'-5"
	1 @ 8'	4'	32	9'-0"	9½"	6"	9½"	5'-7"
		5'	40	9'-2"		7"		6'-7"
		6'	48	9'-2"		7"		7'-7"
		7'	56	9'-3"		7½"		8'-7"
		8'	64	9'-4"		8"		9'-7"
		9'	72	9'-6"		9"		10'-7"
		10'	80	9'-8"		10"		11'-7"
	1 @ 9'	5'	45	10'-2"	10"	7"	10"	6'-8"
		6'	54	10'-3"		7½"		7'-8"
		7'	63	10'-3"		7½"		8'-8"
		8'	72	10'-4"		8"		9'-8"
		9'	81	10'-6"		9"		10'-8"
		10'	90	10'-8"		10"		11'-8"
		11'	99	10'-10"		11"		12'-8"
	1 @ 10'	5'	50	11'-2"	10⅝"	7"	11"	6'-9½"
		6'	60	11'-3"		7½"		7'-9½"
		7'	70	11'-3"		7½"		8'-9½"
		8'	80	11'-5"		8"		9'-9½"
		9'	90	11'-6"		9"		10'-9½"
		10'	100	11'-8"		10"		11'-9½"
		11'	110	11'-10"		11"		12'-9½"
		12'	120	12'-0"		12"		13'-9½"
	1 @ 11'	6'	66	12'-9"	11⅜"	8"	11⅞"	7'-10⅜"
		7'	77	12'-8"		8"		8'-10⅜"
		8'	88	12'-8"		8"		9'-10⅜"
		9'	99	12'-6"		9"		10'-10⅜"
		10'	110	12'-8"		10"		11'-10⅜"
		11'	121	12'-10"		11"		12'-10⅜"
		12'	132	13'-0"		12"		13'-10⅜"
	1 @ 12'	6'	72	13'-4"	12"	8"	12½"	8'-0"
		7'	84	13'-6"		8"		9'-0"
		8'	96	13'-4"		8"		10'-0"
		9'	108	13'-6"		9"		11'-0"
		10'	120	13'-8"		10"		12'-0"
		11'	132	13'-10"		11"		13'-0"
		12'	144	14'-0"		12"		14'-0"

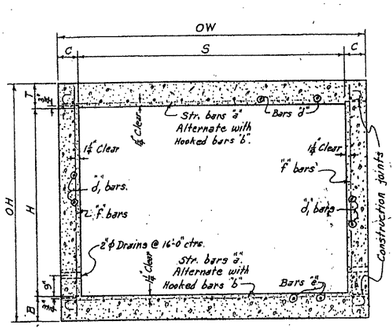
QUANTITIES

UNIT QUANTITIES: CLASS S CONC. PER LIN. FT. OF BARREL CU.YD.	REINFORCING STEEL PER LIN. FT. OF BARREL LB.	REINFORCING STEEL ADDITIONAL PER LAP LB.	REINFORCING STEEL ADDITIONAL TWO HEADWALLS & APRONS LB.
0.282	41.99	17.95	66.35
0.319	44.16	19.62	66.35
0.356	46.83	21.29	66.35
0.394	49.50	22.96	66.35
0.979	52.96	29.63	67.25
0.380	55.55	22.19	101.27
0.417	58.23	23.86	101.27
0.454	60.90	25.53	101.27
0.535	64.93	27.20	103.27
0.604	67.63	28.87	104.27
0.496	66.29	29.76	118.96
0.983	68.96	26.93	118.96
0.520	71.64	28.10	118.96
0.602	75.31	29.77	120.96
0.671	78.98	31.44	121.97
0.746	88.97	33.11	122.97
0.568	81.32	29.01	136.88
0.605	84.00	30.68	136.88
0.688	87.76	32.35	138.88
0.757	90.98	34.02	139.88
0.832	96.63	35.69	140.88
0.946	105.59	32.36	142.89
0.676	95.26	33.32	199.07
0.754	99.12	34.99	196.80
0.797	101.79	36.66	196.80
0.867	105.05	38.33	198.16
0.992	110.81	40.00	199.52
1.057	119.52	41.67	202.25
1.184	126.67	43.34	204.97
0.844	114.12	37.56	219.61
0.910	118.04	39.23	220.97
0.957	120.71	40.90	220.97
1.033	126.54	42.57	222.33
1.198	135.80	44.24	224.06
1.276	192.66	45.91	227.78
1.916	180.90	47.58	230.51
0.957	130.64	40.13	242.64
1.024	133.99	41.80	244.00
1.071	136.64	43.47	244.00
1.147	142.55	45.14	245.36
1.263	151.92	46.81	248.09
1.391	158.89	48.98	250.81
1.532	166.71	50.15	253.54
1.695	178.67	51.82	256.26
1.153	156.16	46.12	268.62
1.202	157.88	47.79	268.62
1.252	163.06	49.96	268.62
1.368	172.60	51.13	271.34
1.497	179.70	52.80	274.07
1.638	187.67	54.97	276.79
1.792	199.79	56.14	279.52
1.284	172.20	48.69	357.62
1.393	179.87	50.86	357.62
1.383	180.15	52.031	357.62
1.500	189.85	53.70	361.18
1.630	197.07	55.37	364.74
1.772	205.16	57.04	368.30
1.926	217.95	58.71	371.86

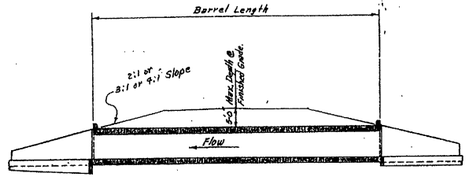
W-X002-1, W-X003-1 or W-X004-1 and W-X002-2, W-X003-2 or W-X004-2.



PART LONGITUDINAL SECTION



TYPICAL SECTION M-M



LONGITUDINAL SECTION

GENERAL NOTES:-

CONCRETE:- All concrete to be Class S, and shall be poured in the dry. All exposed corners to have ¾" chamfers.

REINFORCING STEEL:- Reinforcing to be deformed bars of intermediate or hard grade.

BAR LAP:- In computing the quantities of steel from the tables add one lap for each additional 33'-0" length of barrel over 32'-0". Lap longitudinal bars 30 diameters.

CONSTRUCTION JOINTS:- Construction joints between wingwalls, sidewalls and slabs shall be only where shown on plans.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction and applicable Special Provisions.

DESIGN LIVE LOAD

H20-S16 LOADING A.A.S.H.O. 1961
AND
SPECIAL MILITARY LOADING
Two 24,000 Lb. Axles @ 9'-0" ctrs.

UNIT STRESSES:-
Class S Concrete (n=10) 1200 #/in²
Reinforcing Steel 20,000 #/in²

NOTE:- This drawing to be used in conjunction with Standard Drawing Nos. W-X003-1 or W-X003-2 and W-X004-1 or W-X004-2. Also Drawing Nos. W-X002-1 or W-X002-2.

CLASS S CONCRETE

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD BARREL SECTIONS FOR REINFORCED CONCRETE BOX CULVERTS

4', 5', 6', 7', 8', 9', 10', 11' & 12' SPANS SINGLES
3:1 OR 4:1 SLOPES UNDER 5'-0" COVER

STANDARD DRAWING NO. R-100X-0