DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	1	320
		DIXIELAND RD. - 8TH ST. (ROGERS) (S)				

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

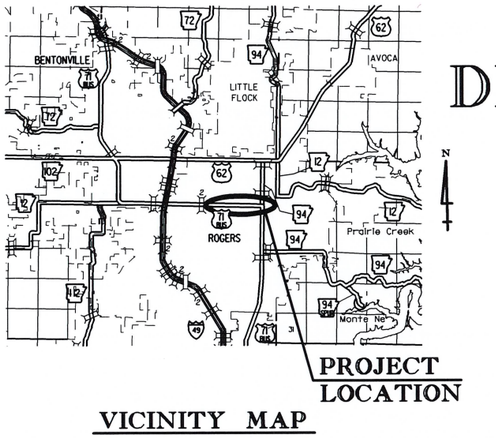
DIXIELAND RD. - 8TH ST. (ROGERS) (S)

BENTON COUNTY

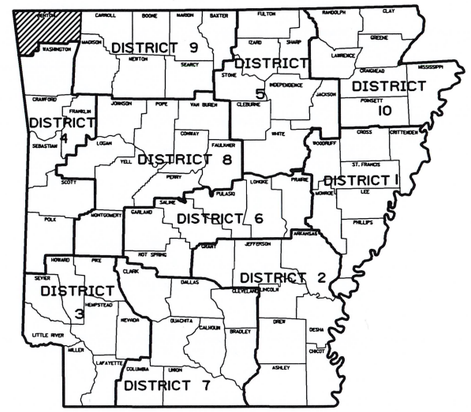
ROUTE 71B SECTION 18B

JOB 090338

FED. AID PROJ. NHPP-TAPU-9373(19)
9030

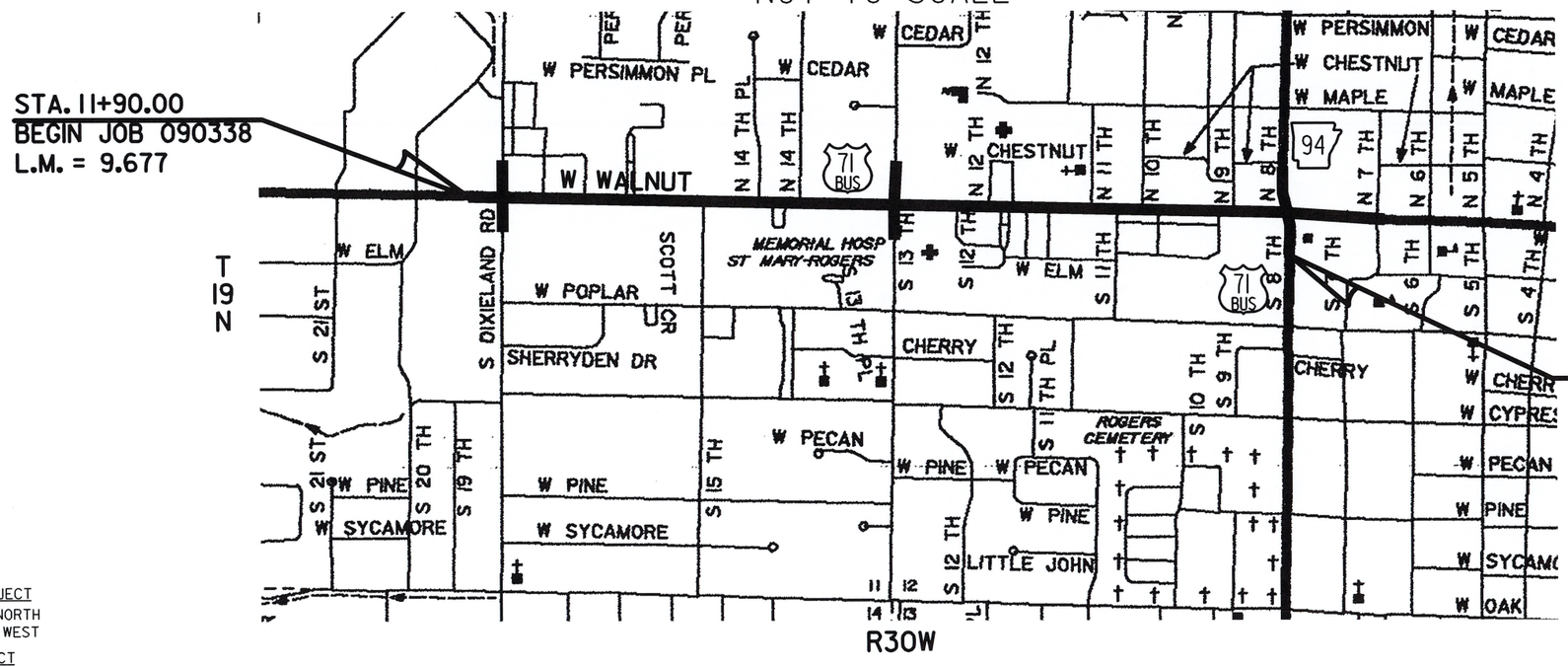


VICINITY MAP



ARKANSAS HIGHWAY DIST. 9

NOT TO SCALE



• DESIGN TRAFFIC DATA •

DESIGN YEAR	2043
2023 ADT	21600
2043 ADT	32095
2043 DHV	3530
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS	4%
DESIGN SPEED	45 MPH

BEGIN - POINT OF PROJECT
LATITUDE = 36°20'02.5" NORTH
LONGITUDE = 94°08'43.2" WEST

MID - POINT OF PROJECT
LATITUDE = 36°20'01.6" NORTH
LONGITUDE = 94°08'04.7" WEST

END - POINT OF PROJECT
LATITUDE = 36°19'55.5" NORTH
LONGITUDE = 94°07'32.5" WEST

	JOB 090338		
GROSS LENGTH OF PROJECT	6310.00	FEET OR 1.195	MILES
NET LENGTH OF ROADWAY	6310.00	FEET OR 1.195	MILES
NET LENGTH OF BRIDGES	0.00	FEET OR 0.000	MILES
NET LENGTH OF PROJECT	6310.00	FEET OR 1.195	MILES

P.E. JOB 090338

CERTIFICATE OF AUTHORIZATION
CRAFTON, TULL & ASSOCIATES, INC.
No. 109
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
8-10-23
HUBERT BURNS

USER: JD5103
DESIGN FILE: G:\110106100_Walnut St\TRANSP\dgn\misc\090338 Title.dgn MODEL: TITLE SHEET
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-04-2023		6	ARK.	090338	2	320
02-12-2024		INDEX OF SHEETS AND GENERAL NOTES				

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3	GOVERNING SPECIFICATIONS
4-7	TYPICAL SECTIONS OF IMPROVEMENT
8-13	LANDSCAPE PLANS
14-18	IRRIGATION PLANS
19-24	SPECIAL DETAILS
25-34	TEMPORARY EROSION CONTROL DETAILS
35-51	MAINTENANCE OF TRAFFIC DETAILS
52-56	PERMANENT PAVEMENT MARKING DETAILS
57-68	QUANTITIES
69-71	SUMMARY OF QUANTITIES AND REVISIONS
72-74	SURVEY CONTROL DETAILS
75-76	INTERSECTION PLANS
77-107	PLAN AND PROFILE SHEETS
108-120	DRIVEWAY PROFILES
121	SUMMARY OF TRAFFIC SIGNAL QUANTITIES
122	TRAFFIC SIGNAL NOTES
123	GROUNDING ARRAY DETAIL
124	TRAFFIC SIGNAL QUANTITIES - DIXIELAND ROAD
125-136	SIGNALIZATION PLAN SHEETS
137	TRAFFIC SIGNAL QUANTITIES - 13TH STREET
138-149	SIGNALIZATION PLAN SHEETS
150	TRAFFIC SIGNAL QUANTITIES - 8TH STREET
151-162	SIGNALIZATION PLAN SHEETS
163-168	ILLUMINATION LAYOUT
169	UTILITY RELOCATION INDEX
170	UTILITY LEGEND
171-181	W. WALNUT ST. UTILITY PLANS
182-194	SANITARY SEWER P&P
195-212	WATERLINE P&P
213	ROGERS SEWER DETAILS
214-215	ROGERS WATER DETAILS
216-219	AEP/SWEPCO PLANS
219A-219K	UTILITIES MAINTENANCE OF TRAFFIC
220-320	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	
CDP-1	CONCRETE DITCH PAVING	12-08-16
CG-1	CURBING DETAILS	11-29-07
DR-1	DETAILS OF DRIVEWAYS & ISLANDS	05-19-22
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9	DETAILS OF DROP INLETS & JUNCTION BOXES	11-16-01
FPC-9E	DETAILS OF DROP INLETS (TYPE C)	08-22-02
FPC-9M	DETAILS OF DROP INLETS (TYPE MO)	08-22-02
FPC-9S	DETAILS OF DROP INLETS & 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
PM-1	PAVEMENT MARKING DETAILS	02-27-20
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
SD-5	CONTROLLER CABINET UTILITY DRAWER	09-12-13
SD-6	HEAVY DUTY PULL BOX	02-13-24
SD-7	SPAN WIRE ASSEMBLY WOOD POLE	02-13-24
SD-8	SIGNAL HEAD PLACEMENT	12-08-16
SD-9	SERVICE POINT	11-07-19
SD-11	STEEL POLE WITH MAST ARM	02-13-24
SE-2	TABLES AND METHOD OF SUPERELEVATION FOR TWO-WAY TRAFFIC	11-07-19
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
SI-3	CONCRETE WALK (TYPE SPECIAL)	11-05-20
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21

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 NATIONWIDE 14 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 SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCT OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

ROADWAY STANDARD DRAWINGS (CONT.)

DRWG NO.	TITLE	
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER	11-07-19
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER	11-07-19
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WR-1	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS	11-10-05

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-04-2023		6	ARK.	090338	3	320
01-23-2024		GOVERNING SPECIFICATIONS				
02-12-2024						

GOVERNING SPECIFICATIONS

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

NUMBER	TITLE
ERRATA_____	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273_____	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273_____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273_____	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273_____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273_____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273_____	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273_____	SUPPLEMENT - WAGE RATE DETERMINATION
FHWA-1273_____	SUPPLEMENT - TRAINING PROGRAM - JOB 090338
100-3_____	CONTRACTOR'S LICENSE
100-4_____	DEPARTMENT NAME CHANGE
102-2_____	ISSUANCE OF PROPOSALS
103-2_____	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4_____	MAINTENANCE DURING CONSTRUCTION
107-2_____	RESTRAINING CONDITIONS
108-1_____	LIQUIDATED DAMAGES
108-2_____	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1_____	PROTECTION OF WATER QUALITY AND WETLANDS
210-1_____	UNCLASSIFIED EXCAVATION
303-1_____	AGGREGATE BASE COURSE
306-1_____	QUALITY CONTROL AND ACCEPTANCE
400-1_____	TACK COATS
400-4_____	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5_____	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6_____	LIQUID ANTI-STRIP ADDITIVE
400-7_____	TRACKLESS TRACK
404-3_____	DESIGN OF ASPHALT MIXTURES
409-2_____	ASPHALT LABORATORY FACILITY
410-1_____	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2_____	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4_____	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1_____	RECYCLED ASPHALT PAVEMENT
501-2_____	CEMENT
502-1_____	WELDED WIRE REINFORCEMENT
505-1_____	PORTLAND CEMENT CONCRETE DRIVEWAY
600-2_____	INCIDENTAL CONSTRUCTION
603-1_____	LANE CLOSURE NOTIFICATION
604-1_____	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3_____	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
605-1_____	CONCRETE DITCH PAVING
606-1_____	PIPE CULVERTS FOR SIDE DRAINS
620-1_____	MULCH COVER
621-1_____	FILTER SOCKS
632-1_____	CONCRETE ISLAND
633-1_____	CONCRETE WALKS, CONCRETE STEPS, AND HAND RAILING
634-1_____	CURBING
700-2_____	TRAFFIC CONTROL FACILITIES
800-1_____	STRUCTURES
802-4_____	CEMENT
804-2_____	REINFORCING STEEL FOR STRUCTURES
JOB 090338_____	1" COMBINATION AIR RELEASE VALVE AND ENCLOSURE
JOB 090338_____	4" PVC SCH 40 SEWER SERVICE
JOB 090338_____	8" CONCRETE PAD (96"x89") FOR 3 PHASE ELECTRIC TRANSFORMER
JOB 090338_____	ABANDON EXISTING MANHOLE
JOB 090338_____	ABANDON EXISTING WATER METER SETTING AND SERVICE LINE
JOB 090338_____	ACCESSIBLE PEDESTRIAN SIGNAL (APS)
JOB 090338_____	ACTUATED CONTROLLER
JOB 090338_____	ASSESSMENT OF WORKING DAYS - MAINTENANCE OF TRAFFIC
JOB 090338_____	BIDDING REQUIREMENTS AND CONDITIONS
JOB 090338_____	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 090338_____	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 090338_____	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 090338_____	CABINET DRAWER ASSEMBLY
JOB 090338_____	CARGO PREFERENCE ACT REQUIREMENTS
JOB 090338_____	CLASS 7 BACKFILL FOR WATER AND SEWER MAIN
JOB 090338_____	COLD MILLING - COUNTY PROPERTY
JOB 090338_____	CONCRETE WALKS (TYPE SPECIAL)
JOB 090338_____	CONNECT TO EXISITNG WATER MAIN WITH COMPRESSION COUPLING
JOB 090338_____	CONSTRUCTION PROJECT INFORMATION SIGN
JOB 090338_____	COORDINATION OF WORK
JOB 090338_____	CORE EXISTING MANHOLE AND CONNECT SEWER MAIN
JOB 090338_____	CUT AND CAP EXISTING WATER MAIN
JOB 090338_____	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB 090338_____	DESIGN OF ASPHALT MIXTURES - AGGREGATES
JOB 090338_____	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 090338_____	DUCTILE IRON FITTINGS
JOB 090338_____	DUCTILE IRON PIPE WATER MAIN, CLASS 50
JOB 090338_____	ELECTRICAL CONDUCTORS FOR LUMINAIRES

GOVERNING SPECIFICATIONS-CONTINUED

NUMBER	TITLE
JOB 090338_____	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 090338_____	ELECTRICAL CONDUCTORS-IN-CONDUIT (TRAFFIC SIGNALS)
JOB 090338_____	ELECTRIC SERVICE CONNECTIONS TO BUILDINGS
JOB 090338_____	EXISTING WATER AND SEWER UTILITIES
JOB 090338_____	FILL ABANDONED MAINS WITH FLOWABLE FILL (ABANDON-IN-PLACE)
JOB 090338_____	FIRE HYDRANT ASSEMBLY
JOB 090338_____	FLEXIBLE BEGINNING OF WORK - CALENDAR DAY CONTRACT
JOB 090338_____	GATE VALVE WITH BOX
JOB 090338_____	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 090338_____	HYBRID VIDEO/RADAR DETECTION SYSTEM
JOB 090338_____	INLAID PREFORMED THERMOPLASTIC ASPHALT PAVEMENT MARKING SYSTEM
JOB 090338_____	IRRIGATION SYSTEM
JOB 090338_____	JOINT TAPE (36")
JOB 090338_____	LANDSCAPE EDGING
JOB 090338_____	LANDSCAPE MULCH
JOB 090338_____	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
JOB 090338_____	LED LUMINAIRE ASSEMBLY (BUG U0 TYPE)
JOB 090338_____	LED TRAFFIC SIGNAL HEAD
JOB 090338_____	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 090338_____	LONGITUDINAL JOINT DENSITIES FOR ACHM SURFACE COURSES
JOB 090338_____	MAINTENANCE OF TRAFFIC
JOB 090338_____	MANDATORY ELECTRONIC CONTRACT
JOB 090338_____	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 090338_____	MANHOLE (4' DIAMETER)
JOB 090338_____	MANHOLE, EXTRA DEPTH, OVER 6' DEPTH (4' DIAMETER)
JOB 090338_____	MANHOLES ADJUSTED TO GRADE
JOB 090338_____	MAST ARM EXTENSION
JOB 090338_____	PARTNERING REQUIREMENTS
JOB 090338_____	PEDESTAL TYPE SERVICE POINT
JOB 090338_____	PERCENT AIR VOIDS AND NDESIGN FOR ACHM SURFACE MIX DESIGNS
JOB 090338_____	PRECAST REINFORCED CONCRETE BOX CULVERTS
JOB 090338_____	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 090338_____	PRICE ADJUSTMENT FOR FUEL
JOB 090338_____	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 090338_____	PROSECUTION AND PROGRESS WITH BID SCHEDULE
JOB 090338_____	PVC SCH 40 ELECTRICAL CONDUITS
JOB 090338_____	PVC SDR-26 SEWER MAIN
JOB 090338_____	RELOCATE OUTLET STRUCTURE
JOB 090338_____	RELOCATION OF TRAFFIC SIGNAL HEAD
JOB 090338_____	REMOVAL AND DISPOSAL OF CAST IRON PIPE WATER MAIN
JOB 090338_____	REMOVAL AND DISPOSAL OF MANHOLES
JOB 090338_____	REMOVAL AND RELOCATION OF WAYFARING SIGNS
JOB 090338_____	REMOVAL AND SALVAGE OF FIRE HYDRANT
JOB 090338_____	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
JOB 090338_____	REMOVAL, STORAGE, AND REINSTALLATION OF BUS STOP SHELTER
JOB 090338_____	RESTRICTIONS ON THE USE OF RECYCLED ASPHALT PAVEMENT MATERIAL
JOB 090338_____	RETROREFLECTIVE BACKPLATES
JOB 090338_____	SEQUENCE OF CONSTRUCTION
JOB 090338_____	SERVICE POINT ASSEMBLY (TRAFFIC CONTROL DEVICES)
JOB 090338_____	SHORING FOR CULVERTS
JOB 090338_____	SHRUB PLANTING
JOB 090338_____	SITE FURNISHINGS
JOB 090338_____	SITE USE (A + B + C METHOD) - CALENDAR DAY CONTRACT
JOB 090338_____	SOIL STABILIZATION
JOB 090338_____	STAMPED CONCRETE
JOB 090338_____	STEEL CASING BY DIRECT BURY
JOB 090338_____	STORM WATER POLLUTION PREVENTION PLAN
JOB 090338_____	STREET LIGHTING
JOB 090338_____	STREET NAME SIGN (MAST ARM MOUNTED)
JOB 090338_____	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 090338_____	SYSTEM LOCAL CONTROLLER
JOB 090338_____	TAPPING SLEEVE AND TAPPING VALVE WITH BOX
JOB 090338_____	TOTAL SOLAR ECLIPSE
JOB 090338_____	TREE PLANTING
JOB 090338_____	TRENCH EXCAVATION
JOB 090338_____	TRENCH SAFETY FOR WATER AND SEWER MAINS
JOB 090338_____	UTILITY ADJUSTMENTS
JOB 090338_____	VALUE ENGINEERING
JOB 090338_____	VIDEO DETECTOR ROTATION
JOB 090338_____	WARM MIX ASPHALT
JOB 090338_____	WATER SERVICE LINE AND METER SET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
2-22-2024
JEROME PAUL DAVIS

USER: jc5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\misc\090338 Gov. Spec.dgn
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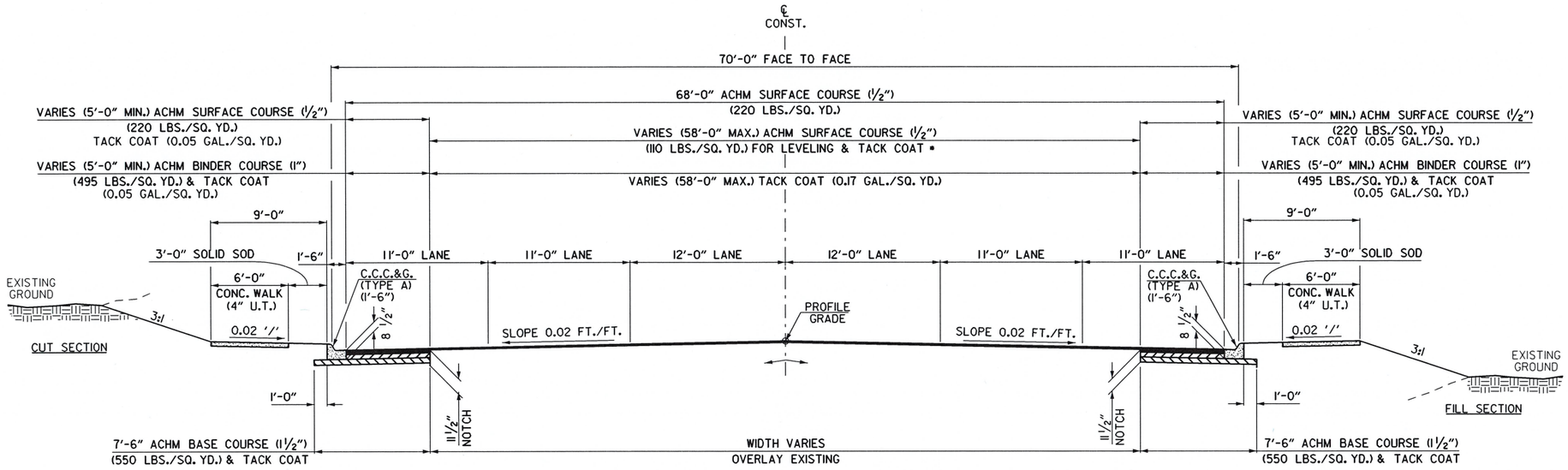
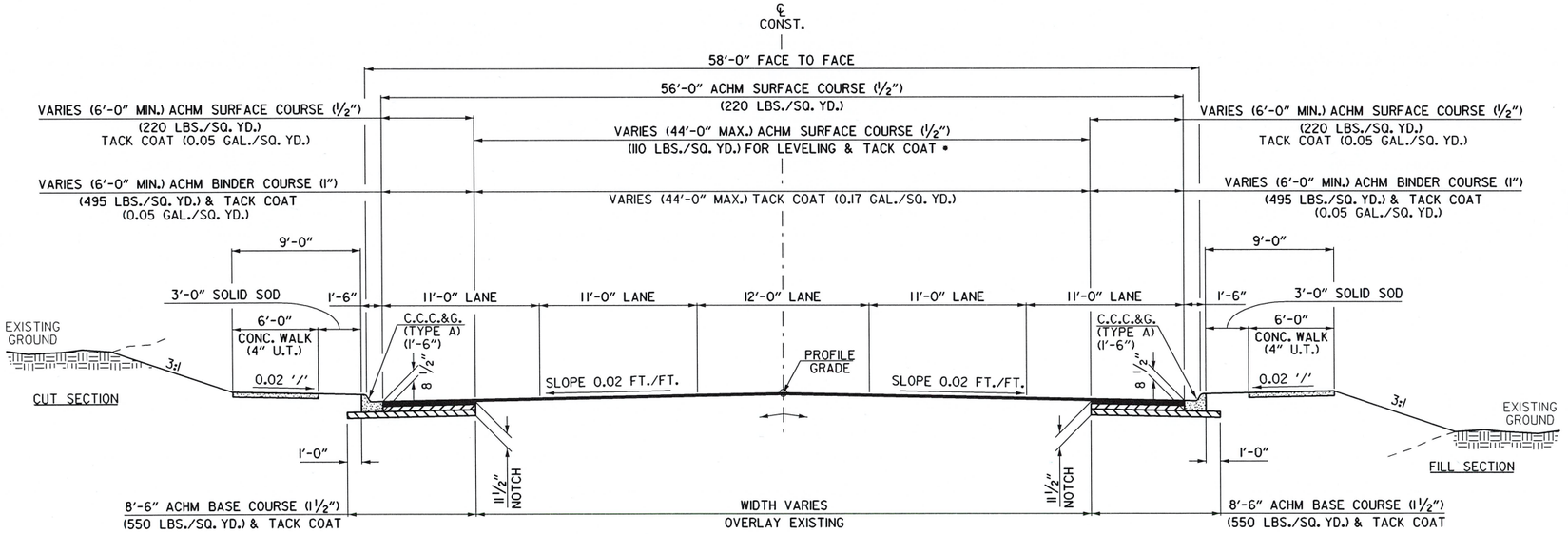
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	4	320
		TYPICAL SECTIONS OF IMPROVEMENT				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023



TYPICAL SECTION OF IMPROVEMENT
SIX LANES - HWY. 71B (W. WALNUT STREET) & DIXIELAND RD.

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.



TYPICAL SECTION OF IMPROVEMENT
FIVE LANES - HWY. 71B (W. WALNUT STREET)

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

TYPICAL SECTION NOTES:

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
2. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.
3. ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED 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.
4. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT LANE LINES.
5. 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 TO THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. REFER TO PLAN SHEETS FOR SIDEWALK LOCATIONS.

TYPICAL SECTIONS OF IMPROVEMENT

USER: JJ5206
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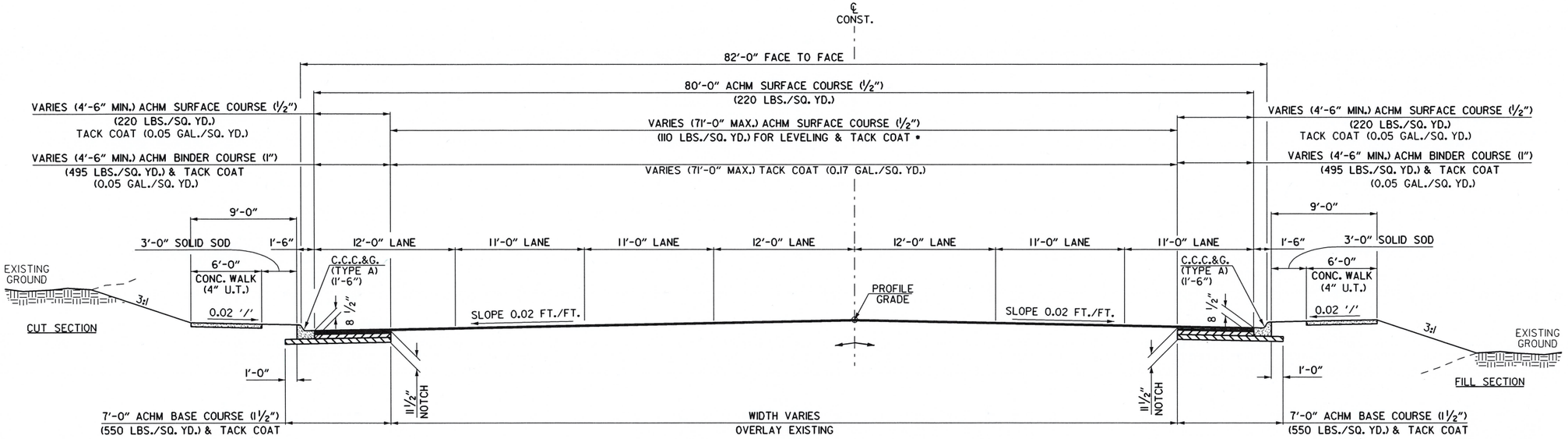
PLOTTED: 5/16/2023 16:37
SCALE: 1:20
MODEL: TYPICAL SECTIONS OF IMPROVMENT

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	5	320
		TYPICAL SECTIONS OF IMPROVEMENT				



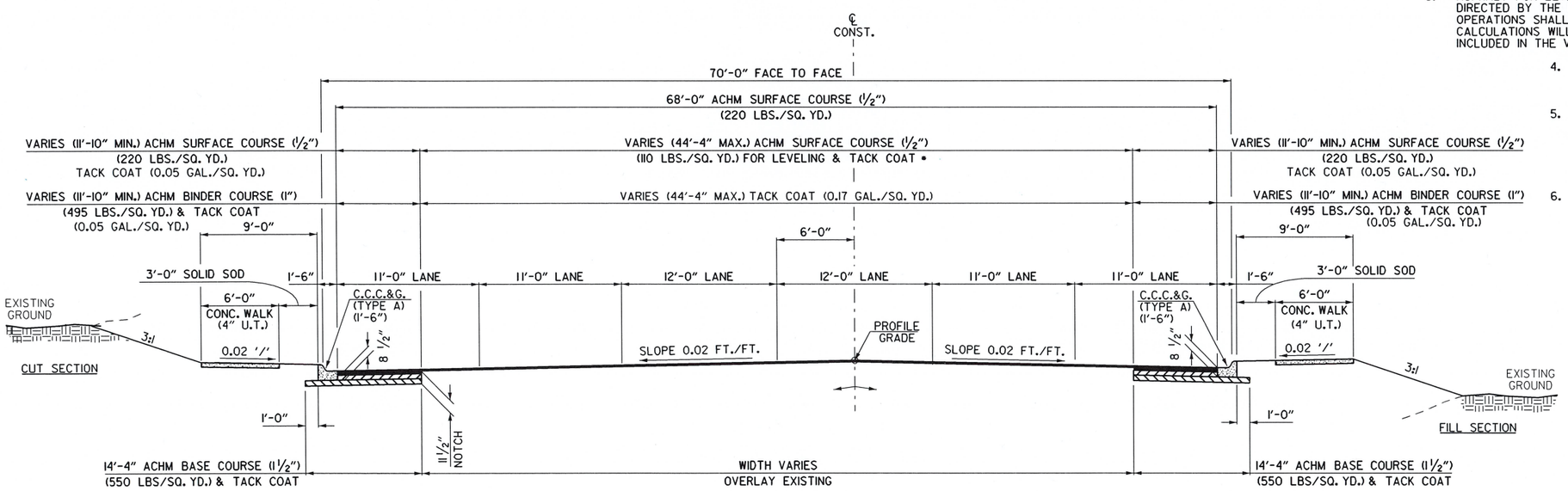
TYPICAL SECTION OF IMPROVEMENT
SEVEN LANES - HWY. 71B & HWY. 94

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
5-17-2023
JEROME PAUL DAVIS

TYPICAL SECTION NOTES:

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
2. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.
3. ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED 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.
4. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT LANE LINES.
5. 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 TO THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. REFER TO PLAN SHEETS FOR SIDEWALK LOCATIONS.



TYPICAL SECTION OF IMPROVEMENT
SIX LANES - W. WALNUT STREET

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

TYPICAL SECTIONS OF IMPROVEMENT

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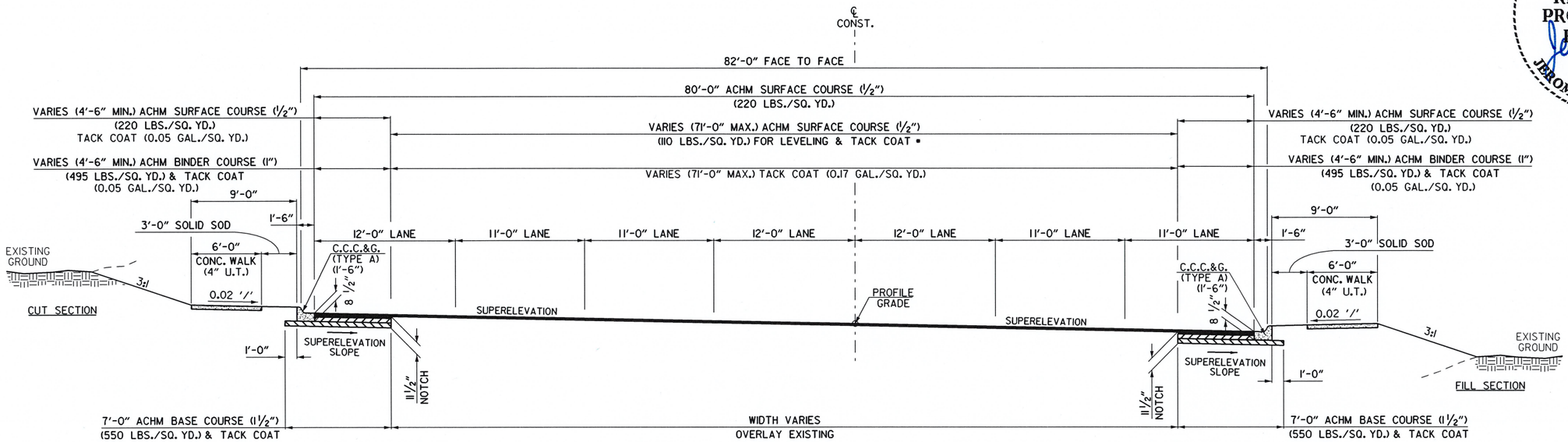
MODEL: TYPICAL SECTIONS OF IMPROVMENT
SCALE: 1:20

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	6	320
		TYPICAL SECTIONS OF IMPROVEMENT				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023



• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

SUPERELEVATION SECTION OF IMPROVEMENT SEVEN LANES - HWY. 71B & HWY. 94

TYPICAL SECTION NOTES:

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
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6. REFER TO PLAN SHEETS FOR SIDEWALK LOCATIONS.

TYPICAL SECTIONS OF IMPROVEMENT

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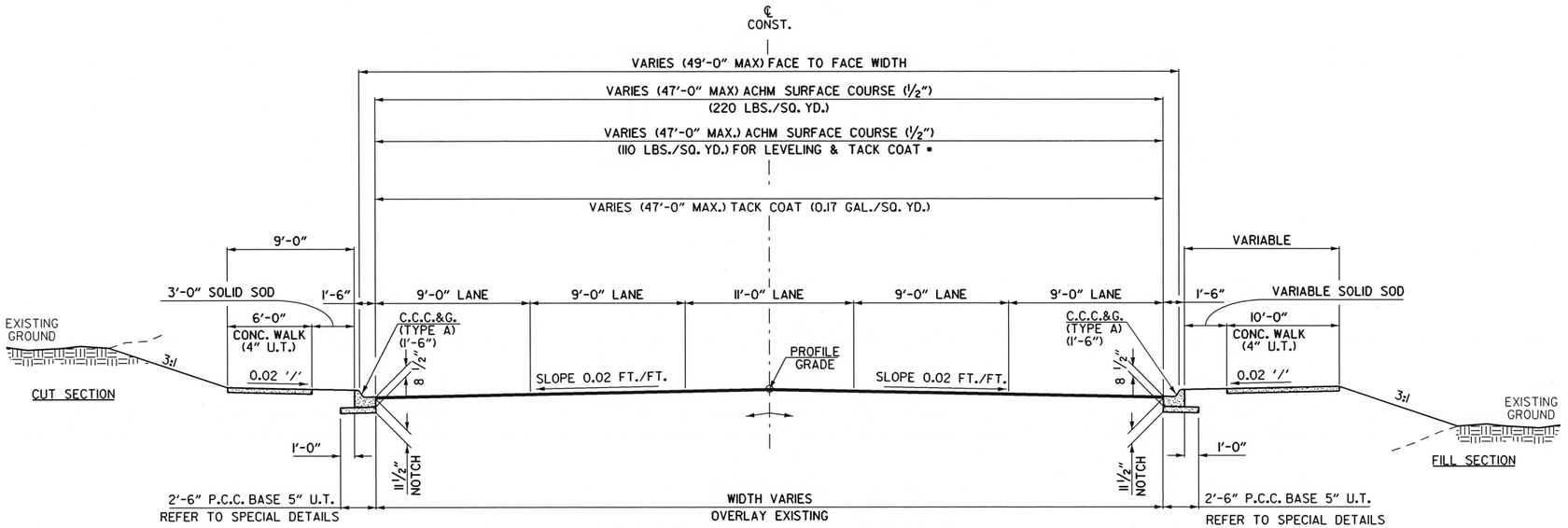
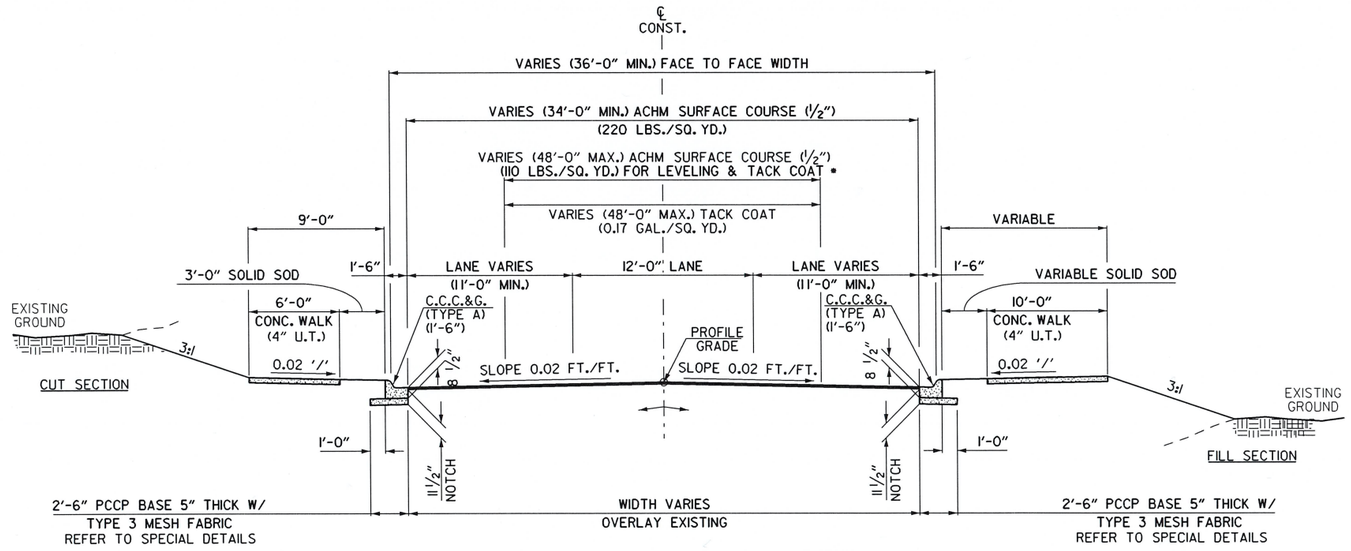
MODEL: TYPICAL SECTIONS OF IMPROVMENT

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	7	320
		TYPICAL SECTIONS OF IMPROVEMENT				



TYPICAL SECTION OF IMPROVEMENT
FIVE LANES - 13TH STREET

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.



TYPICAL SECTION OF IMPROVEMENT
THREE LANES - 13TH STREET

• TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

TYPICAL SECTION NOTES:

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
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6. REFER TO PLAN SHEETS FOR SIDEWALK LOCATIONS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

USER: JJ5206
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SCALE: 1:20
MODEL: TYPICAL SECTIONS OF IMPROVMENT

TYPICAL SECTIONS OF IMPROVEMENT

LANDSCAPE NOTES

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ONE-CALL SYSTEM. ALL UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON SURVEY INFORMATION, SITE DEVELOPMENT PLANS, UTILITY RECORDS, ETC.
2. ALL PLANT MATERIAL SHALL BE NURSERY GROWN. THE SIZE AND GRADING SHALL MEET OR EXCEED THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
3. ALL ENTRANCE/EXIT PLANTINGS SHALL BE INSTALLED AND MAINTAINED TO PROVIDE CLEAR SIGHT DISTANCE FROM THE STREETS AND THE ENTRANCE/EXIT LOCATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REQUIRED SHRUBS AND TREES PER CITY LANDSCAPE ORDINANCE OR UNTIL PROJECT IS TURNED OVER AND ACCEPTED BY OWNER.
5. NO CHANGES TO THE PLANT SCHEDULE ARE ALLOWED WITHOUT APPROVAL OF THE OWNER, LANDSCAPE ARCHITECT AND CITY. SUBSTITUTED PLANTS SHALL MEET THE SAME CRITERIA REGARDING TYPE, SIZE AND FUNCTION AS THOSE PLANTS SHOWN ON THE PLAN.
6. ALL LAWN AREAS ARE TO RECEIVE 4" OF TOPSOIL TO FINAL GRADE. ALL SHRUB AREAS SHALL RECEIVE 6" OF TOPSOIL. SOIL SHALL BE AMENDED TO ENHANCE FAVORABLE GROWING CONDITIONS. ALL EXISTING SOD/WEEDS SHALL BE REMOVED FROM PLANTING BED AREAS.
7. ALL PLANT BEDS SHALL BE TREATED WITH A WEED BARRIER AND A MINIMUM OF 3" SHREDDED HARDWOOD MULCH. TREES NOT LOCATED IN PLANT BEDS SHALL RECEIVE A MULCH SAUCER PER DETAIL.
8. ALL TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
9. ALL SHRUBS AND TREES SHALL BE TREATED WITH 13-13-13 TIME RELEASE FERTILIZER UPON COMPLETION OF THEIR INSTALLATION.
10. ALL DISTURBED AREAS NOT TO RECEIVE PLANTINGS SHALL BE SEEDED WITH 60% BERMUDA GRASS AND 40% ANNUAL RYEGRASS AT 5 LBS PER 1,000 SF DURING THE APPROPRIATE TIME OF YEAR FOR THE SEED TO GERMINATE; IF THIS CANNOT BE ACCOMPLISHED, THE CONTRACTOR SHALL CALL THE LANDSCAPE ARCHITECT FOR A GRASS SEED SUBSTITUTION.
11. AT A MINIMUM, SOD SHALL BE INSTALLED ON 3:1 SLOPES AND GREATER AND AN EIGHTEEN INCH (18") STRIP OF SOD SHALL BE INSTALLED BEHIND ALL CURBS AND ADJACENT TO ALL SIDEWALKS AND ENTRY WALKS.
12. A LANDSCAPE IRRIGATION SYSTEM IS PROPOSED, LANDSCAPE CONTRACTOR TO CONFIRM LOCATION OF PROPOSED IRRIGATION LINES WITH THE IRRIGATION CONTRACTOR PRIOR TO PLANT BED AND PLANT INSTALLATION.

PLANT LIST LEGEND (9030)

SHRUBS

SYMBOL	QUANTITY	COMMON NAME	SCIENTIFIC NAME	PLANTING SIZE
	67	PINK MUHLY GRASS	MUHLENBERGIA CAPILLARIS	3 GAL. 18" HT. X 18" SPR.
	450	SHAMROCK COMPACT INKBERRY	ILEX GLABRA 'SHAMROCK'	3 GAL. 15"-18" HT.X18"SPR

TREES

SYMBOL	QUANTITY	COMMON NAME	SCIENTIFIC NAME	PLANTING SIZE
	10	BURGUNDY HEARTS REDBUD	CERCUS CANADENSIS 'GRESWAN'	2" CAL 12'-14' HT.
	145	HIGHBEAM OVERCUP OAK	QUERCUS LYRATA 'QLFTB'	3"-CAL, 14'-16' HT.
	36	SHUMARD OAK	QUERCUS SHUMARDII	3"-CAL, 14'-16' HT.

SHRUBS

SYMBOL	QUANTITY	COMMON NAME	SCIENTIFIC NAME	PLANTING SIZE
	15,416 SY	BERMUDA GRASS	CYNODON DACTYLON	SOLID SOD

SITE FURNISHINGS LEGEND (9030)

SYMBOL	QUANTITY	DESCRIPTION
	27	6' BENCH, COLOR-BRONZE, SURFACE MOUNT
	16	TRASH/RECYCLE RECEPTACLE, COLOR-BRONZE, SURFACE MOUNT

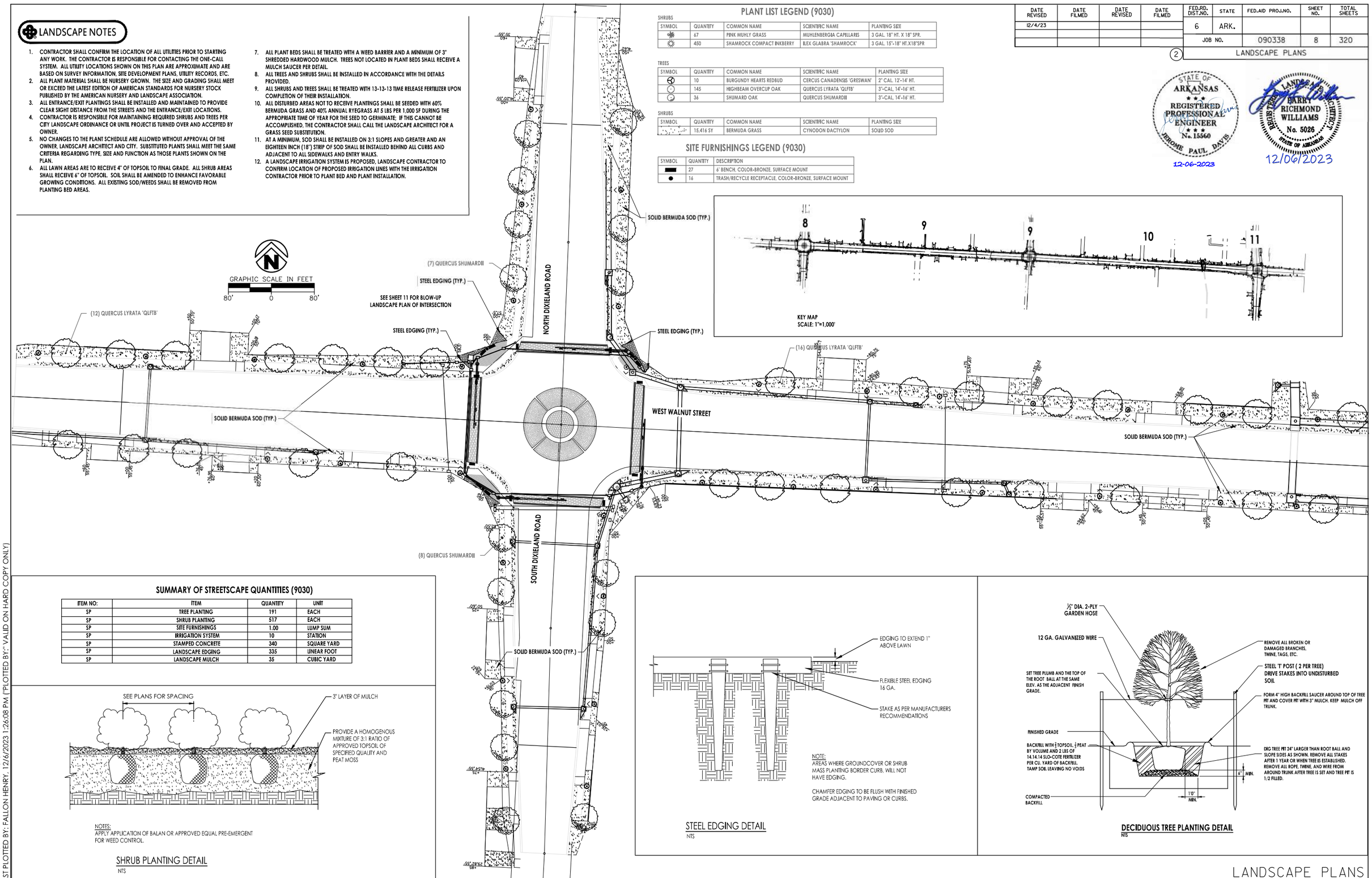
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
12/4/23				6	ARK.			
				JOB NO.		090338	8	320

2 LANDSCAPE PLANS

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 15560 — JEROME PAUL DAVIS
12-06-2023

REGISTERED LANDSCAPE ARCHITECT — RICHMOND WILLIAMS — No. 5026 — STATE OF ARKANSAS
12/06/2023

GRAPHIC SCALE IN FEET
80' 0 80'



SUMMARY OF STREETSCAPE QUANTITIES (9030)

ITEM NO:	ITEM	QUANTITY	UNIT
SP	TREE PLANTING	191	EACH
SP	SHRUB PLANTING	517	EACH
SP	SITE FURNISHINGS	1.00	LUMP SUM
SP	IRRIGATION SYSTEM	10	STATION
SP	STAMPED CONCRETE	340	SQUARE YARD
SP	LANDSCAPE EDGING	335	LINEAR FOOT
SP	LANDSCAPE MULCH	35	CUBIC YARD

NOTES:
APPLY APPLICATION OF BALAN OR APPROVED EQUAL PRE-EMERGENT FOR WEED CONTROL.

SHRUB PLANTING DETAIL
NTS

NOTE:
AREAS WHERE GROUNDCOVER OR SHRUB MASS PLANTING BORDER CURB, WILL NOT HAVE EDGING.

CHAMFER EDGING TO BE FLUSH WITH FINISHED GRADE ADJACENT TO PAVING OR CURBS.

STEEL EDGING DETAIL
NTS

DECIDUOUS TREE PLANTING DETAIL
NTS

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12/4/23			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090338	9	320

2 LANDSCAPE PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-06-2023

GRAPHIC SCALE IN FEET
80' 0 80'

REGISTERED LANDSCAPE ARCHITECT
BARRY RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
12/06/2023

(28) QUERCUS LYRATA 'QLFTB'
(2) CERCUS CANADENSIS 'GRESWAN'
REST STOP (TYP.) SEE DETAIL SHEET 12
SOLID BERMUDA SOD (TYP.)
WEST WALNUT STREET
SOLID BERMUDA SOD (TYP.)
(2) CERCUS CANADENSIS 'GRESWAN'
REST STOP (TYP.) SEE DETAIL SHEET 12

(4) QUERCUS SHUMARDII
SOLID BERMUDA SOD (TYP.)
STEEL EDGING (TYP.)
N. 13TH STREET
STEEL EDGING (TYP.)
SEE SHEET 11 FOR BLOW-UP LANDSCAPE PLAN OF INTERSECTION
STEEL EDGING (TYP.)
(12) QUERCUS LYRATA 'QLFTB'
(13) QUERCUS LYRATA 'QLFTB'
REST STOP (TYP.) SEE DETAIL SHEET 12
SOLID BERMUDA SOD (TYP.)
WEST WALNUT STREET
SOLID BERMUDA SOD (TYP.)
(2) CERCUS CANADENSIS 'GRESWAN'
EXISTING BUS STOP
STEEL EDGING (TYP.)
S. 13TH STREET
STEEL EDGING (TYP.)
STEEL EDGING (TYP.)

LANDSCAPE PLANS

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12/4/23			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090338	10	320

(2) LANDSCAPE PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-06-2023

GRAPHIC SCALE IN FEET
80' 0 80'

LANDSCAPE ARCHITECT
CARRIE RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
12/06/2023

(30) QUERCUS LYRATA 'QLFTB'

(2) CERCUS CANADENSIS 'GRESWAN'

REST STOP (TYP.)
SEE DETAIL SHEET 12

REST STOP (TYP.)
SEE DETAIL SHEET 12

WEST WALNUT STREET

SOLID BERMUDA SOD (TYP.)

SOLID BERMUDA SOD (TYP.)

(2) CERCUS CANADENSIS 'GRESWAN'

DRAWING: \\ROGFILE\JOBFILES\11106100_WALNUTST\CIV\FALLON 5-9-23\FALLON 5-9-23\11106100-WALNUT-8TH\DWG\REV\LANDSCAPE.DWG
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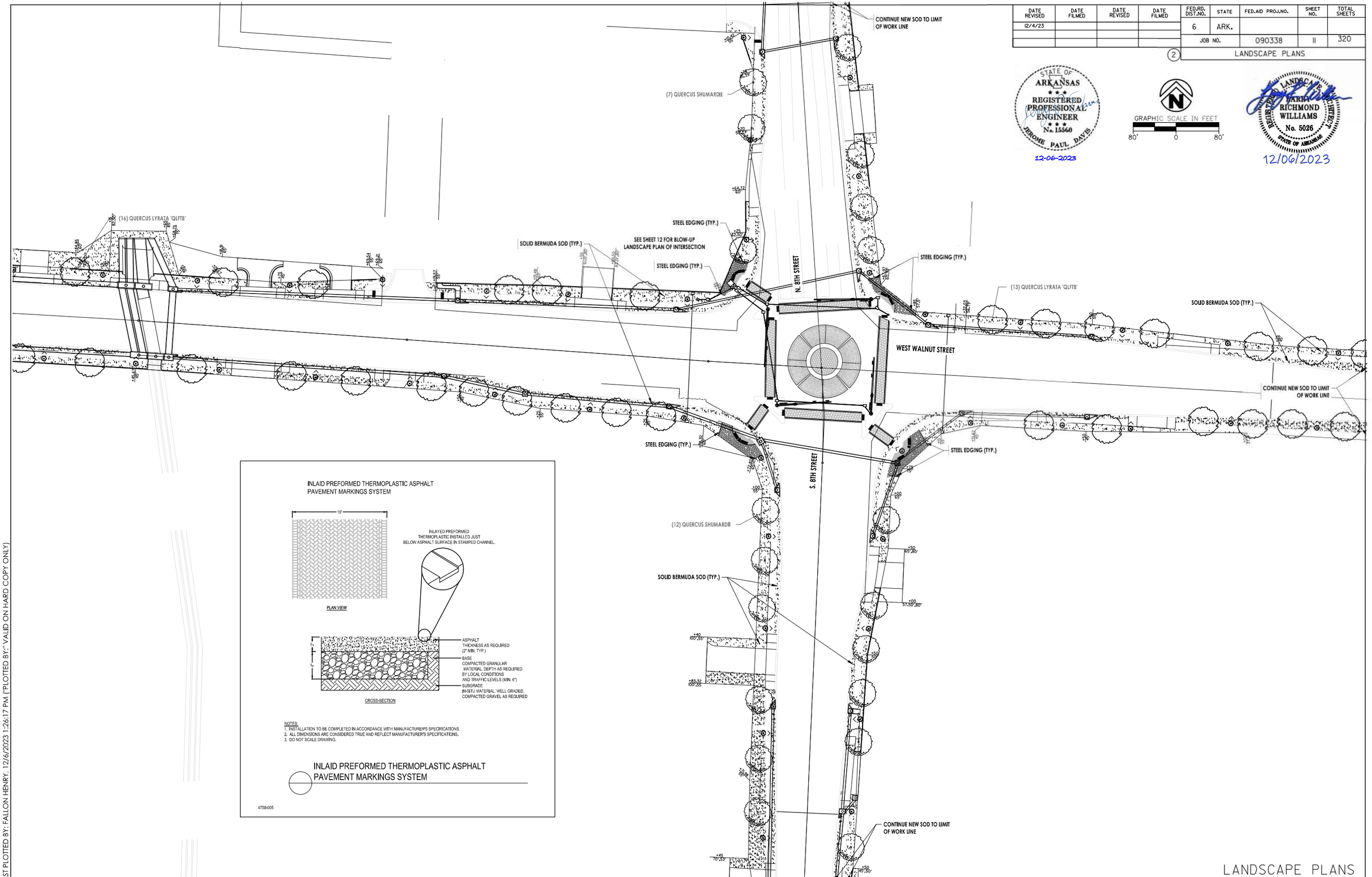
12/4/23				6	ARK.			
				JOB NO.		090338	II	320

2 LANDSCAPE PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-06-2023

GRAPHIC SCALE IN FEET
80' 0 80'

LANDSCAPE ARCHITECT
ARK.
RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
12/06/2023



INLAID PREFORMED THERMOPLASTIC ASPHALT
PAVEMENT MARKINGS SYSTEM

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.

INLAID PREFORMED THERMOPLASTIC ASPHALT
PAVEMENT MARKINGS SYSTEM

4758-005

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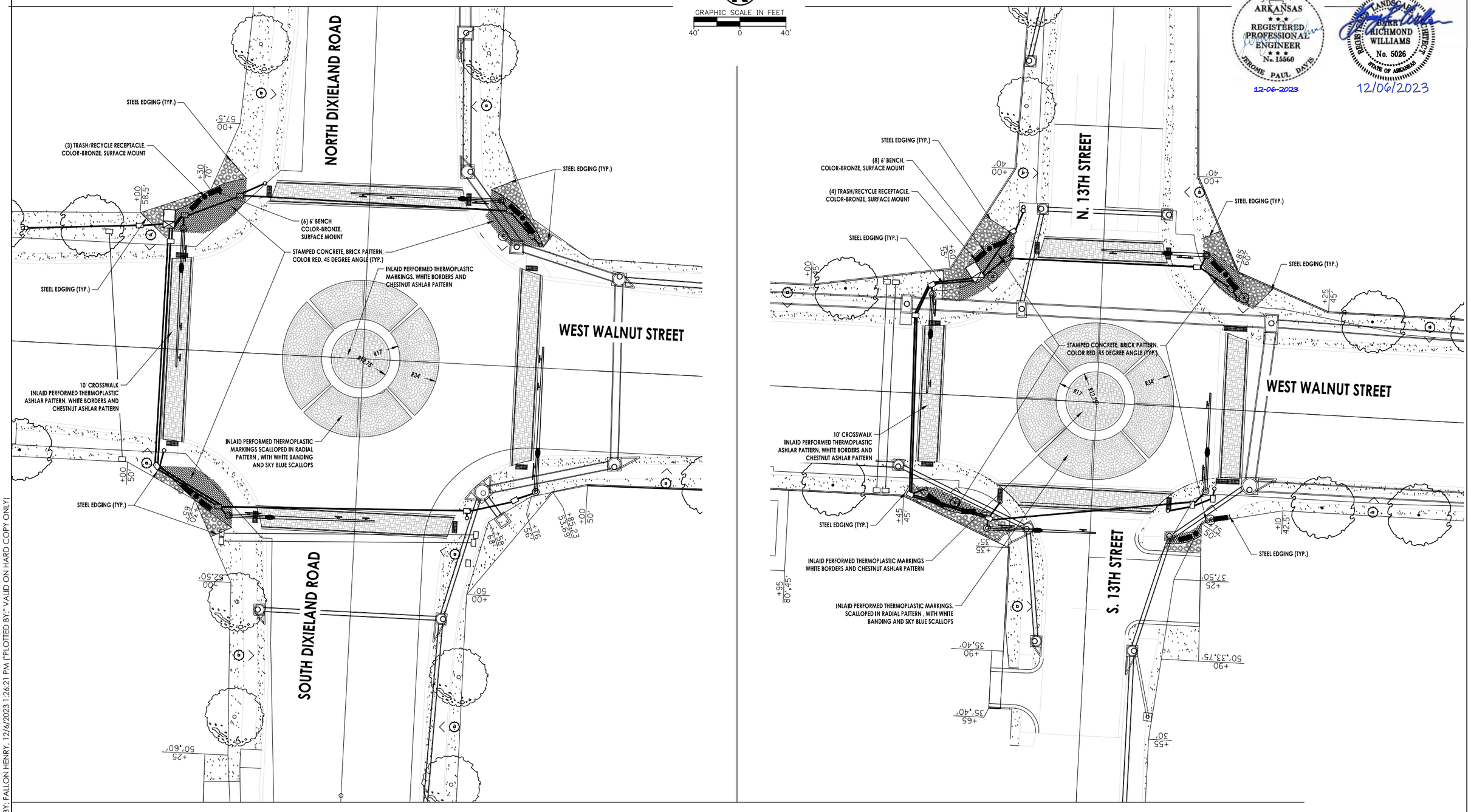
				JOB NO.		090338	12	320

(2) LANDSCAPE PLANS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 15560 JEROME PAUL DAVIS
12-06-2023

REGISTERED LANDSCAPE ARCHITECT BARRY RICHMOND WILLIAMS No. 5026 STATE OF ARKANSAS
12/06/2023

GRAPHIC SCALE IN FEET
40' 0 40'



LANDSCAPE PLANS

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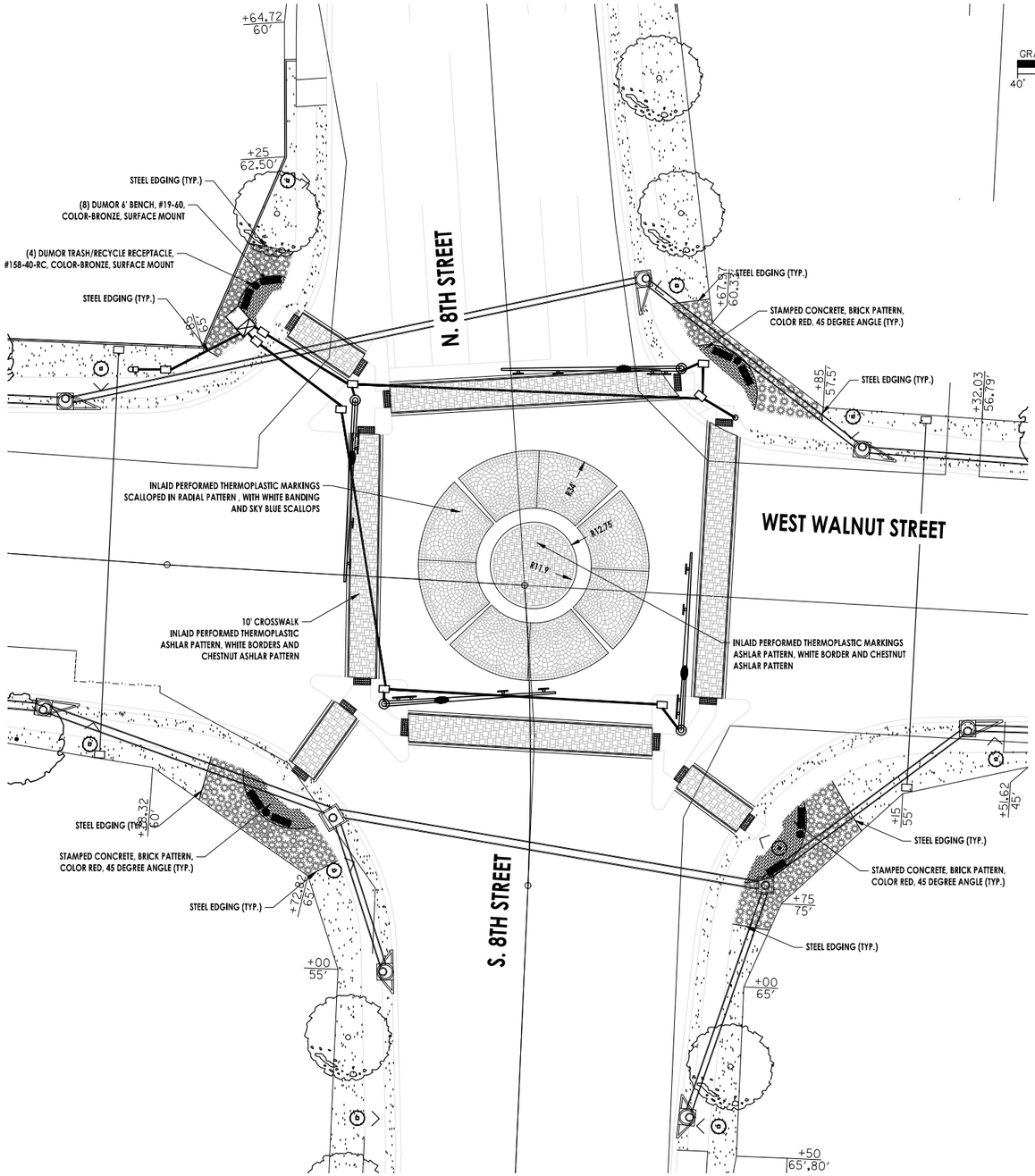
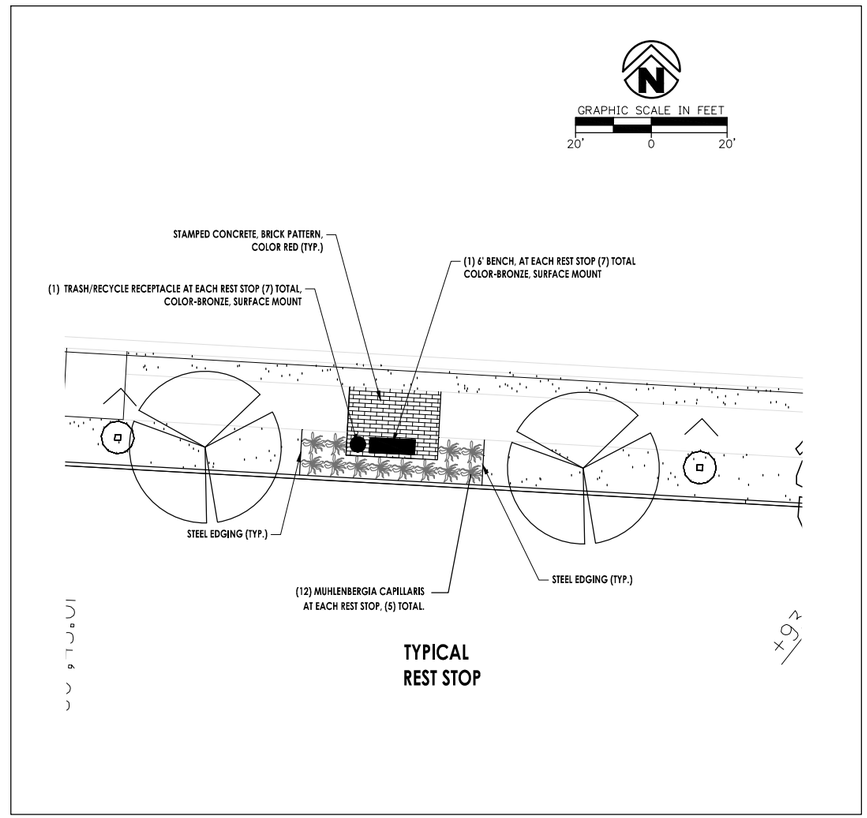
2 LANDSCAPE PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-06-2023

LANDSCAPE ARCHITECT
BIRR RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
12/06/2023





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CRITICAL ANALYSIS

P.O.C. NUMBER: 01		P.O.C. NUMBER: 02	
Water Source Information:	WATER METER 1	Water Source Information:	WATER METER 2
FLOW AVAILABLE		FLOW AVAILABLE	
Water Meter Size:	1"	Water Meter Size:	1"
Flow Available:	37.50 gpm	Flow Available:	37.50 gpm
PRESSURE AVAILABLE		PRESSURE AVAILABLE	
Static Pressure at POC:	80.00 psi	Static Pressure at POC:	80.00 psi
Elevation Change:	7.00 ft	Elevation Change:	7.00 ft
Service Line Size:	1 1/2"	Service Line Size:	1 1/2"
Length of Service Line:	5.00 ft	Length of Service Line:	5.00 ft
Pressure Available:	77.00 psi	Pressure Available:	77.00 psi
DESIGN ANALYSIS		DESIGN ANALYSIS	
Maximum Station Flow:	29.46 gpm	Maximum Station Flow:	29.46 gpm
Flow Available at POC:	37.50 gpm	Flow Available at POC:	37.50 gpm
Residual Flow Available:	8.04 gpm	Residual Flow Available:	8.04 gpm
Critical Station:	3	Critical Station:	3
Design Pressure:	30.00 psi	Design Pressure:	30.00 psi
Friction Loss:	10.66 psi	Friction Loss:	10.66 psi
Fittings Loss:	1.07 psi	Fittings Loss:	1.07 psi
Elevation Loss:	0.00 psi	Elevation Loss:	0.00 psi
Loss through Valve:	6.30 psi	Loss through Valve:	6.30 psi
Pressure Req. at Critical Station:	48.03 psi	Pressure Req. at Critical Station:	48.03 psi
Loss for Fittings:	0.67 psi	Loss for Fittings:	0.52 psi
Loss for Main Line:	6.71 psi	Loss for Main Line:	5.21 psi
Loss for POC to Valve Elevation:	0.00 psi	Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	13.50 psi	Loss for Backflow:	13.50 psi
Loss for Master Valve:	0.80 psi	Loss for Master Valve:	0.80 psi
Loss for Water Meter:	3.86 psi	Loss for Water Meter:	3.86 psi
Critical Station Pressure at POC:	73.57 psi	Critical Station Pressure at POC:	71.92 psi
Pressure Available:	77.00 psi	Pressure Available:	77.00 psi
Residual Pressure Available:	3.43 psi	Residual Pressure Available:	5.08 psi

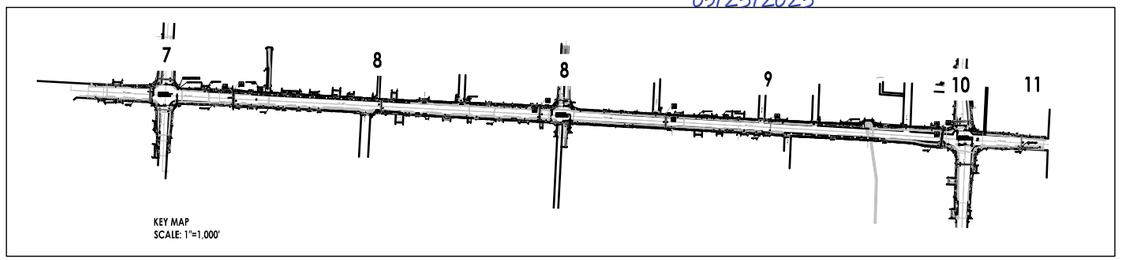
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-23-2023

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090338	14	320

IRRIGATION PLANS

REGISTERED LANDSCAPE ARCHITECT
BARRY RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
05/23/2023

GRAPHIC SCALE IN FEET
80' 0 80'



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
ES LCS RCS CS SS	HUNTER PROS-06-PRS40-CV-F 5' STRIP SPRAY SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FLOGUARD	20	30
Q H F	HUNTER PROS-06-PRS40-CV-F 5' RADIUS SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FLOGUARD	1	30
Q T H F	HUNTER PROS-06-PRS40-CV-F 8' RADIUS SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FLOGUARD	2	30
SST	HUNTER PROS-06-PRS40-CV-F 9' SIDE STRIP SPRAY SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FLOGUARD	2	30
Q T H F	HUNTER PROS-06-PRS40-CV-F 10' RADIUS SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FLOGUARD	1	30
④ ⑥ ⑧ ⑩ ⑫ ⑮ ⑰	HUNTER PROS-06-PRS40-CV-F ADJUSTABLE ARC SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FLOGUARD	124	30
1401 1402 1404 1408	RAIN BIRD RWS-B-C 1401 ROOT WATERING SYSTEM WITH 4.0" DIAMETER X 36.0" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE, AND CHECK VALVE. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	382	30

Valve Callout

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICV-G-BSP-DC 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH DC LATCHING SOLENOID FACTORY INSTALLED OPTION.	10
M1	HUNTER IBV-BSP 1-1/2 BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
M2	HUNTER IBV-BSP 1-1/2" BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
BF	ZURN 975XL 2" REDUCED PRESSURE BACKFLOW DEVICE	1
BF2	ZURN 975XL 2" REDUCED PRESSURE BACKFLOW DEVICE	1
M1	WATER METER 1"	1
M2	WATER METER 2"	1
RSD	HUNTER RAIN-CLIK RAIN SENSOR	
	2" IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	16,768 L.F.
	1 1/2" IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	3,131 L.F.
	1" IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	1,567 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	9,747 L.F.
	6" IRRIGATION SLEEVES PER SLEEVE INSTALLATION DETAIL	

IRRIGATION PLANS

DRAWING: G:\1106100_WALNUTST\CIV\FALLON 5-9-23\FALLON 5-9-23\1106100-WALNUT-8TH\DWG\REV-IRRIGATION.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.		090338	15	320

IRRIGATION PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-23-2023

LANDSCAPE ARCHITECT
BARRY RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
05/23/2023

GRAPHIC SCALE IN FEET
80' 0 80'

WEST WALNUT STREET
S. 15TH STREET
N. 14TH PLACE
N. 13TH STREET
S. 13TH STREET
N. 12TH STREET

4
1½" 29.5

3
1½" 25.5

IRRIGATION PLANS

DRAWING: G:\11106100_WALNUTST\CIV\FALLON 5-9-23\FALLON 5-9-23\11106100-WALNUT-8TH\DWG\REV-IRRIGATION.DWG
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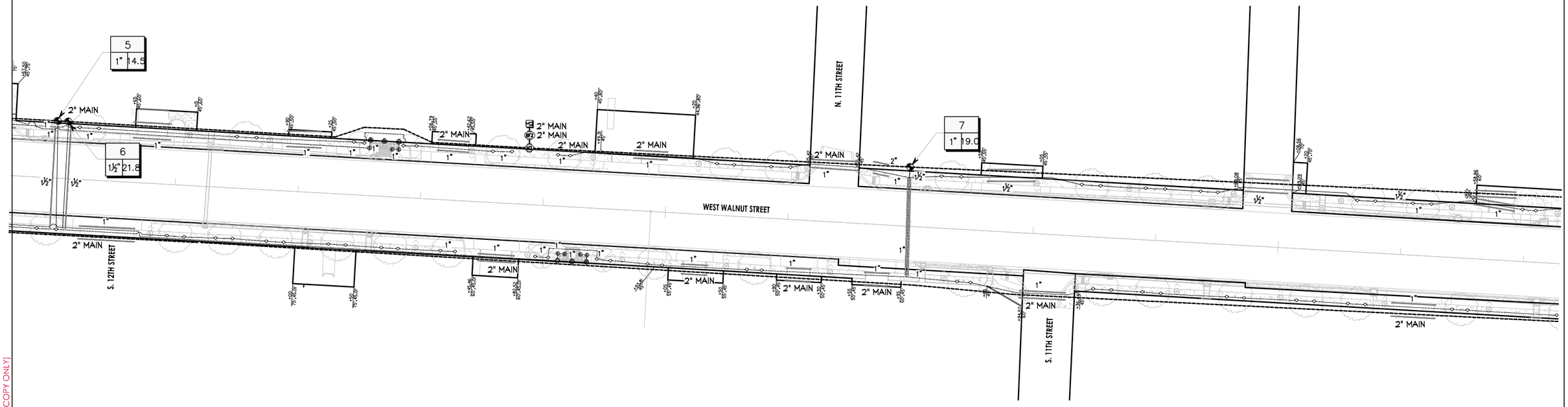
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090338	16	320
				IRRIGATION PLANS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 25560
JEROME PAUL DAVIS
05-23-2023

REGISTERED LANDSCAPE ARCHITECT
BARRY RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
05/23/2023

GRAPHIC SCALE IN FEET
80' 0 80'



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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.		090338	17	320

IRRIGATION PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-23-2023

REGISTERED LANDSCAPE ARCHITECT
BARRY RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
05/23/2023

GRAPHIC SCALE IN FEET
80' 0 80'

N. 9TH STREET
N. 8TH STREET
S. 8TH STREET
2" MAIN
9 1" 16.0
10 1½" 20.1
8 1½" 21.6
VZ52B
VZ52A

DRAWING: G:\111106100_WALNUTST\CIV\FALLON 5-9-23\FALLON 5-9-23\111106100-WALNUT-8TH\DWG\REV-IRRIGATION.DWG
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IRRIGATION NOTES

1. CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 80psi WITH A MINIMUM FLOW RATE OF 37.5gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
2. PLEASE NOTE: IF PRESSURE IS NOT SATISFACTORY THERE MAY BE A NEED FOR A BOOSTER PUMP TO ENHANCE PERFORMANCE OF THE SYSTEM. THE LANDSCAPE CONTRACTOR SHALL REPORT PRESSURE FINDINGS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE SYSTEM FOR DETERMINATION OF ANY BOOSTER NEEDS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES DURING THE INSTALLATION. CONTRACTOR SHALL SEEK ASSISTANCE FROM THE LOCAL UTILITIES IN THE LOCATION OF THE UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS, ADHERE TO ALL MUNICIPAL CODES AND FOLLOW STANDARD AND ACCEPTED LOCAL PRACTICES.
5. A DRAIN VALVE SHALL BE INSTALLED AT THE LOWEST PORTION OF EACH ZONE AND AT 100' INTERVALS ON THE MAINLINE FOR WINTERIZATION.
6. VALVE WIRING SHALL BE 12 GAUGE SINGLE STRAND COPPER DIRECT BURIAL DECODER SYSTEM IRRIGATION WIRE. PROVIDE ALL SPLICES SHALL BE WATERPROOF AND PLACED AT VALVE LOCATIONS ONLY.
7. ALL LATERAL LINE PIPING SHALL BE CLASS 200 SDR 21 PVC. ALL MAINLINE PIPING SHALL BE SCHEDULE 40 PVC. ALL FITTINGS SHALL BE SCH. 40 TYPE 1. USE A PVC SOLVENT AND PRIMER AS RECOMMENDED/APPROVED BY THE PIPE MANUFACTURER. ALL MATERIAL AND EQUIPMENT SHALL BE OF DOMESTIC MANUFACTURER PROCEEDING WITH RELATED WORK.
8. PLACE ALL PIPING ON THE PERIMETER OF LANDSCAPE AREAS WHERE POSSIBLE. PLACE VALVES IN PLANTING AREAS WHERE POSSIBLE. LIMIT TRENCHING AROUND EXISTING TREES AS MUCH AS POSSIBLE. BE AWARE OF THE LOCATION OF NEW TREES AND SHRUBS AND PLACE PIPING AWAY FROM THE ROOT BALLS.
9. THERE SHALL BE A CLOSED LOOP MAINLINE AS INDICATED IN PLAN SET TO AID IN BALANCE OF FLOWS AND PRESSURE.
10. PROVIDE FOR WINTERIZATION BY THE BLOW OUT METHOD.
11. COORDINATE LOCATION OF THE CONTROL BOX AND RAIN SENSOR WITH THE OWNER.
12. PROVIDE 100% COVERAGE FOR ALL LANDSCAPE AREAS AND MAKE FINAL ADJUSTMENTS TO OBTAIN OPTIMAL PERFORMANCE.
13. CONTRACTOR TO PROVIDE SERVICE TAPS, LINES AND METER FOR IRRIGATION SYSTEM SERVICE
14. COMPACT BACK FILL IN ALL TRENCHES TO STANDARD SUB GRADE COMPACTION REQUIREMENTS GIVEN IN SITE GRADING SPECIFICATIONS.
15. CONTRACTOR IS RESPONSIBLE FOR SIZING ALL WIRING TO CONTROL VALVES. DIRECT BURIAL QUALITY WIRE WITH SEALED WATERPROOF CONNECTORS REQUIRED.
16. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS DETAILS AND SPECIFICATIONS.
17. WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.

USE EQUIPMENT SPECIFIED AND INSTALL PER MANUFACTURER SPECIFICATIONS AND DETAILS

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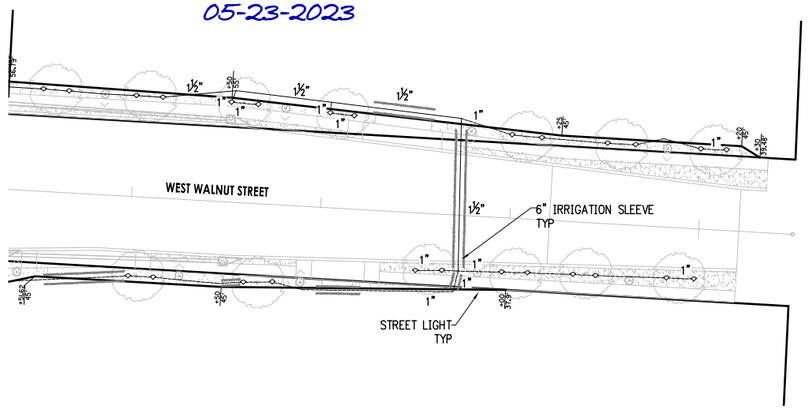
				6	ARK.			
				JOB NO.		090338	18	320

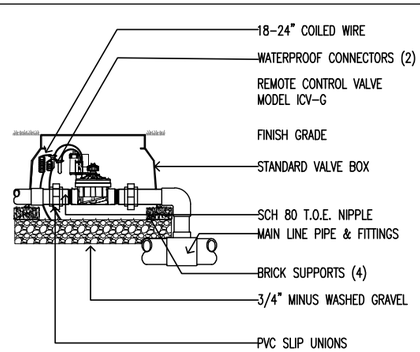
IRRIGATION PLANS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-23-2023

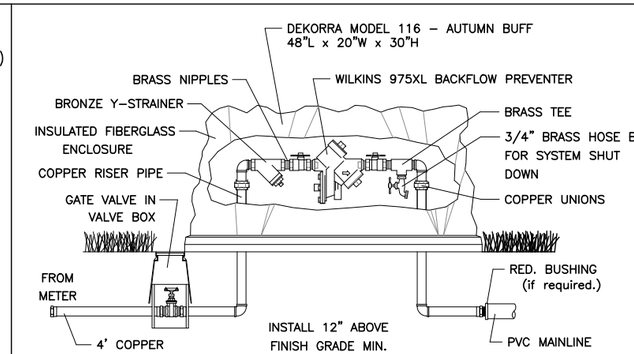
REGISTERED LANDSCAPE ARCHITECT
BARRY RICHMOND WILLIAMS
No. 5026
STATE OF ARKANSAS
05/23/2023

GRAPHIC SCALE IN FEET
80' 0 80'

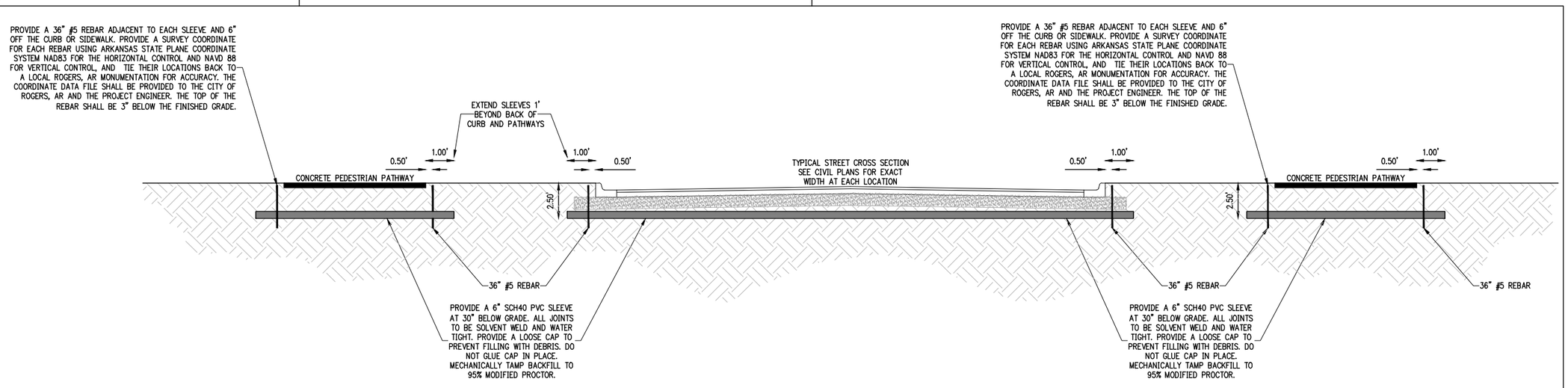




02 ICV GLOBE VALVE
SCALE: 1" = 1'-0" Hunter IRRIGATION DETAIL



01 WILKINS 975XL BACKFLOW PREVENTER
NOT TO SCALE REDUCED PRESSURE PRINCIPLE ASSEMBLY WITH DEKORRA COVER



03 SLEEVE INSTALLATION DETAIL
NTS

IRRIGATION PLANS

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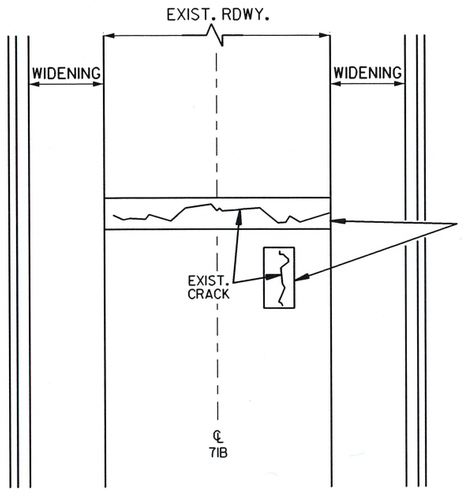
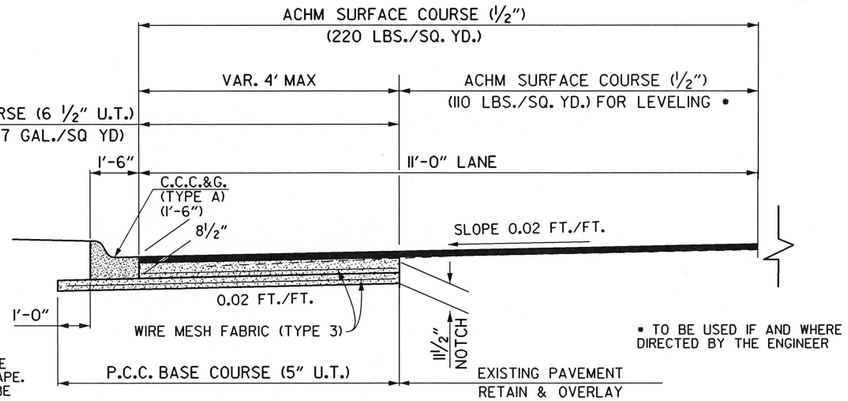
		6	ARK.	090338	19	320
		SPECIAL DETAILS				



NOTES:

1. SEE SPECIAL PROVISION "JOINT TAPE" FOR DETAILS.
2. TO BE APPLIED ON REFLECTIVE CRACKS 3/4" OR GREATER.
3. MUST BE APPLIED BEFORE NEW ASPHALT IS PLACED ON EXISTING SURFACE.
4. ANY VERTICAL JOINT DIFFERENTIAL SHALL BE REMOVED PRIOR TO PLACEMENT OF JOINT TAPE. THIS MAY REQUIRE COLD MILLING AND WILL BE CONSIDERED SUBSIDIARY TO PLACEMENT OF THE JOINT TAPE.

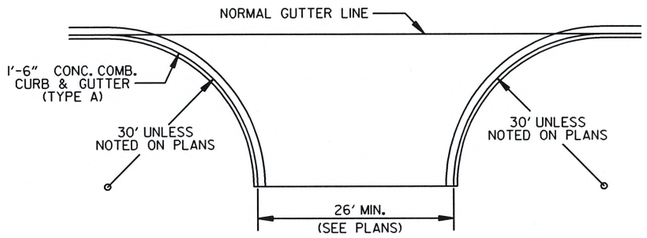
JOINT MEMBRANE DETAIL



* TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

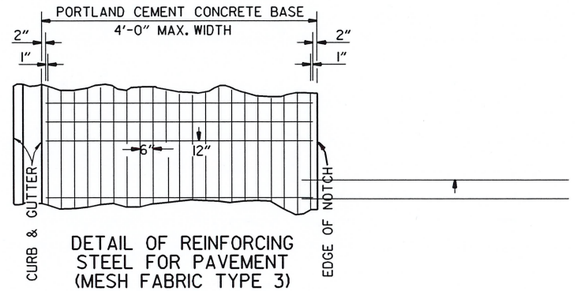
P.C.C. BASE WIDENING DETAIL

P.C.C. BASE WIDENING TO BE USED AS SHOWN ON THE PLANS & IF OR WHERE DIRECTED BY THE ENGINEER.



DETAIL OF TURNOUTS
ASPHALT STREETS, COUNTY ROADS
& STATE HIGHWAYS

NOTE: THE TYPICAL SECTION FOR THE CITY STREET CONNECTIONS IN THE CURB & GUTTER SECTION SHALL MATCH THE PROPOSED WIDENING SECTION SHOWN FOR THE MAIN LANES. UNLESS OTHERWISE NOTED ON THE PLANS. ALL CITY STREET RADII WILL BE 30'.

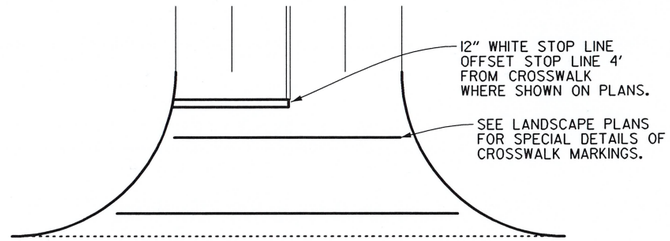


DETAIL OF REINFORCING STEEL FOR PAVEMENT (MESH FABRIC TYPE 3)

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

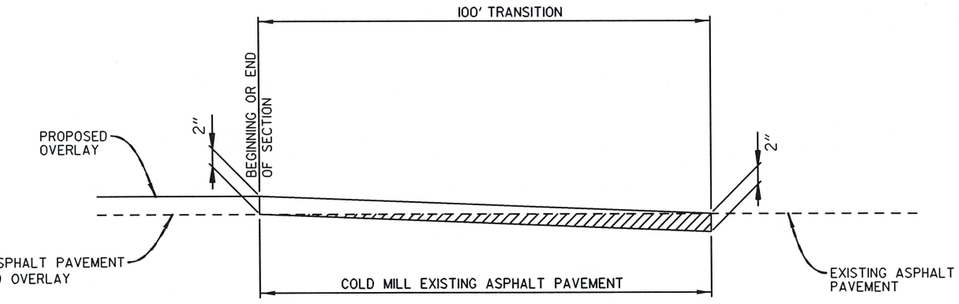
NOTES:

1. LAP MESH FABRIC MIN. 12" LONGITUDINALLY AND MIN. 6" TRANSVERSELY.
2. MESH FABRIC IS NOT REQUIRED WHEN WIDTH OF PORTLAND CEMENT CONCRETE BASE IS LESS THAN 12".
3. MESH FABRIC (TYPE 3) WILL NOT BE PAID FOR DIRECTLY, BUT FULL COMPENSATION THEREFORE WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE BID PER SQ. YD. FOR PORTLAND CEMENT CONCRETE BASE (6.5" U.T.) AND PORTLAND CEMENT CONCRETE BASE (5" U.T.)

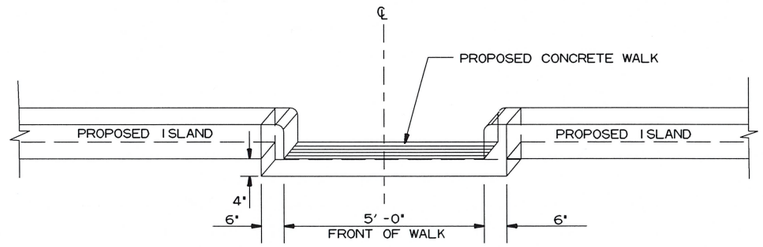


NOTE:
THIS DETAIL SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE", LATEST REVISION.

CROSSWALK AND STOP LINE DETAILS



MILL & OVERLAY TRANSITION DETAIL



FACE SHALL MEET REQUIREMENTS OF TYPE B CURB

NOTE: CONCRETE WALK THROUGH ISLAND SHALL BE POURED MONOLITHICALLY. ALL MATERIALS REQUIRED TO CONSTRUCT CONCRETE WALK THROUGH ISLAND SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE ISLAND.

CONCRETE WALK THROUGH ISLAND

(NOT TO SCALE)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\special_details\090338 SpecialDetails.dgn MODEL: SPECIAL DETAILS
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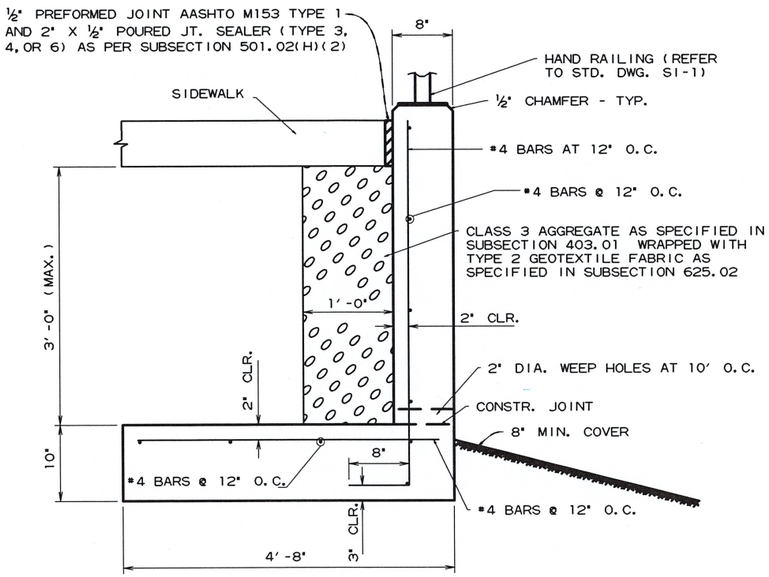
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	20	320
		SPECIAL DETAILS				



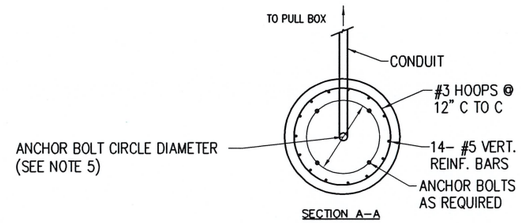
NOTES:
JOINTS IN THE WALL SHALL MATCH THE TYPE AND SPACING OF THE JOINTS IN THE WALK.

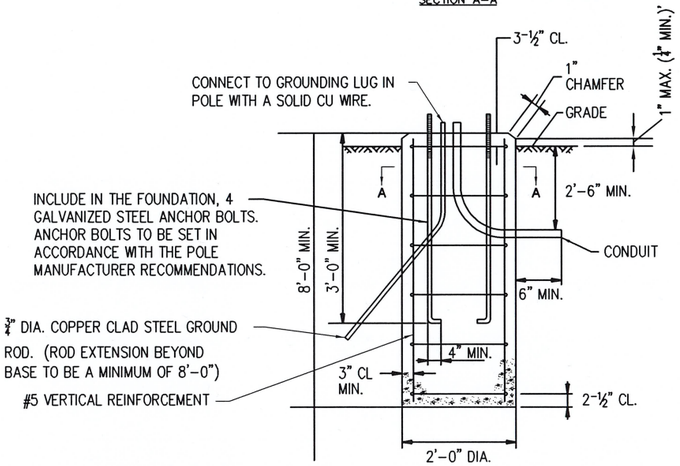
ALL CONCRETE SHALL BE CLASS S (F'C=3,500 PSI) AND SHALL BE POURED IN THE DRY.

REINFORCING STEEL SHALL BE AASHTO M31 OR M53, GRADE 60 (FY=60,000 PSI).

PAYMENT FOR THE WEEP HOLES, CLASS 3 AGGREGATE, TYPE 2 GEOTEXTILE FABRIC, PREFORMED JOINT FILLER, POURED JOINT SEALER, REINF. STEEL, AND CONCRETE SHALL BE INCLUDED IN THE UNIT BID PRICE PER SQ. YD. FOR CONCRETE WALKS (TYPE SPECIAL).

CONCRETE RETAINING WALL SPECIAL DETAIL
MAX HEIGHT 3'-0"

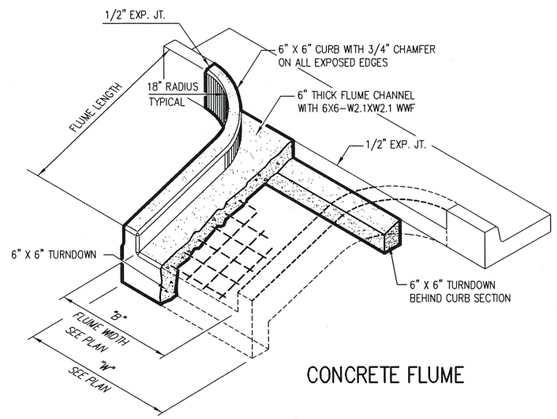




FOUNDATION NOTES:

1. CONCRETE FOR LIGHT POLE STRUCTURE FOUNDATION SHALL HAVE A MINIMUM OF 4000 PSI. ALL REINFORCEMENT SHALL BE DEFORMED STEEL BARS AND CONFORM TO ASTM M31 OR M53, GRADE 60.
2. CONTRACTOR SHALL PROVIDE PRE-CAST OR CAST-IN-PLACE FOUNDATIONS.
3. PROVIDE WATERTIGHT CAPS FOR ANY UNUSED CONDUITS.
4. THE CONTRACTOR SHALL COORDINATE WITH THE LIGHTING FIXTURE, FOUNDATION AND POLE MANUFACTURERS TO ENSURE PROPER FIT OF ALL COMPONENTS.
5. DIMENSIONS AND SIZE OF ANCHOR BOLTS, INCLUDING BOLT CIRCLE, TO BE VERIFIED BY LIGHT POLE MANUFACTURER.
6. CONTRACTOR TO COORDINATE THE APPROPRIATE DIMENSION TO ASSURE THE MINIMUM CONDUIT DEPTH IS 2'-9" WHEN LEADING TO PULLBOX.

CONCRETE FOUNDATION FOR LIGHT POLE



CONCRETE FLUME

NOTES:

PAYMENT FOR CONCRETE, WELDED WIRE FABRIC, & ALL ITEMS TO CONSTRUCT CONCRETE FLUME SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD FOR CONCRETE DITCH PAVING (TYPE SPECIAL).

AT LOCATIONS ON PLANS NOTED AS CONCRETE FLUME EXTENSION, THE RADIUS PORTION OF THE CURB IS NOT REQUIRED.

(NOT TO SCALE)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

SPECIAL DETAILS

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MODEL: SPECIAL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	21	320
		SPECIAL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
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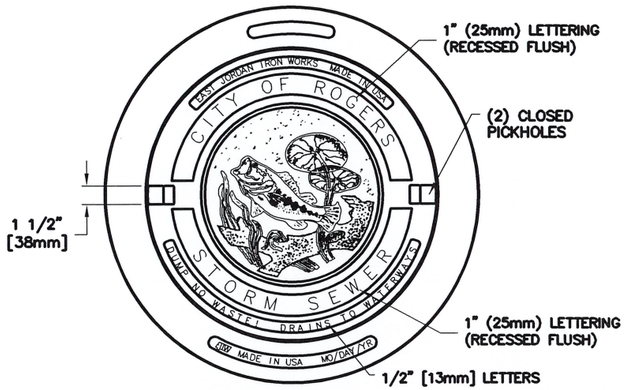

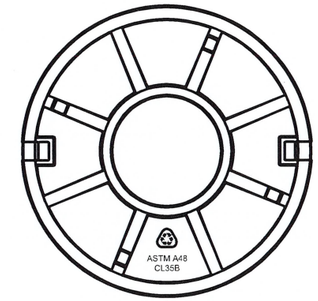

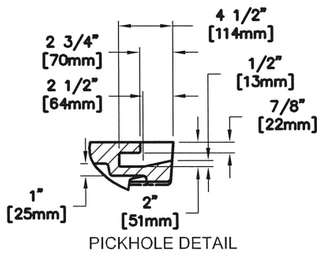

√ MACHINED SURFACE

1. SHALL BE USED ON ALL STORM SEWER MANHOLE COVERS.
2. ALL COVERS SHALL BE RATED HEAVY DUTY.
3. EAST JORDAN IRON WORKS PRODUCT 2750 ASSEMBLY SHOWN, AN APPROVED EQUAL MAY ALSO BE USED.

RING AND COVER DETAIL



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

SPECIAL DETAILS

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		SPECIAL DETAILS				

NOTE: 1) EXCEPT FOR TOP & THROAT REINFORCING STEEL IS NOT SHOWN FOR CLARITY. SEE STANDARD DRAWING FPC-9E FOR REINFORCING STEEL DETAIL.

2) FOR DETAILS OF NOTCH FOR SIDEWALK, BACK OPENING, HEAVY DUTY RING AND COVER, AND STEP FOR DROP INLET SEE STANDARD DRAWING FPC-9E.

3) PIPES MAY ENTER BOX FROM ANY ANGLE OR ELEVATION AS MAY BE APPROVED BY THE ENGINEER. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 1½"

4) COVER SHALL COMPLY WITH CITY OF ROGERS STANDARD DETAIL.

4' - 0" LENGTH DROP INLET WITH 5' THROAT

PIPE SIZE	MIN. WIDTH	HEIGHT 5'-0" CLASS A CONC. CU.YDS	HEIGHT 5'-0" REINF. STEEL POUNDS	PLUS OR MINUS PER LIN. FT. OF HEIGHT CLASS A CONC. CU.YDS	PLUS OR MINUS PER LIN. FT. OF HEIGHT REINF. STEEL POUNDS
18"	2'-6"	3.1	298	0.28	22
24"	2'-6"	3.12	298	0.28	22
30"	3'-2"	3.43	347	0.30	26
36"	3'-8"	3.67	378	0.32	28
42"	4'-4"	3.98	392	0.34	30
48"	4'-10"	4.24	407	0.36	32
54"	5'-5"	4.54	415	0.38	34

DROP INLET EXTENSION

4'-0" CLASS A CONC. CU.YDS	4'-0" REINF. STEEL POUNDS	8'-0" CLASS A CONC. CU.YDS	8'-0" REINF. STEEL POUNDS
0.58	38	0.87	72
DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED			
0.04	3		

STATE OF ARKANSAS
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5-17-2023
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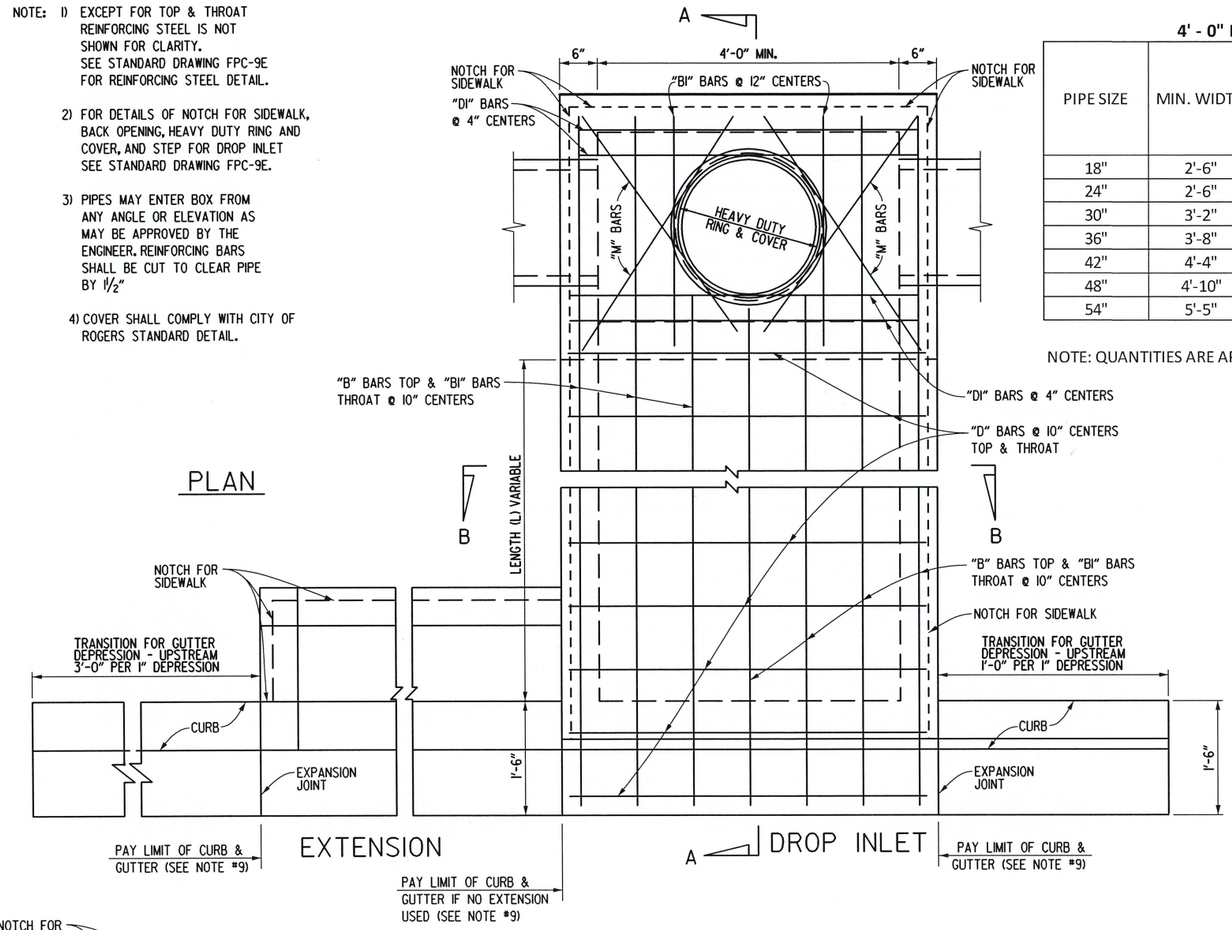
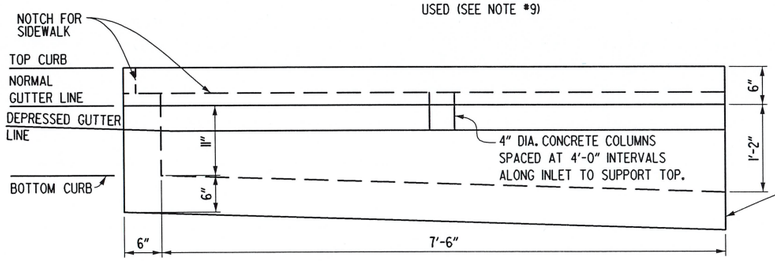
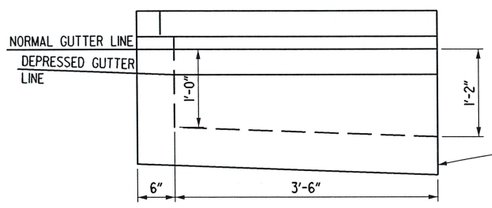
NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY

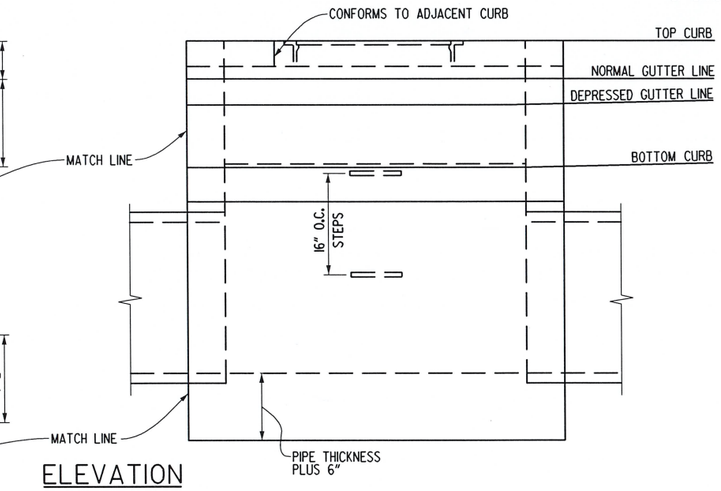




8' EXTENSION

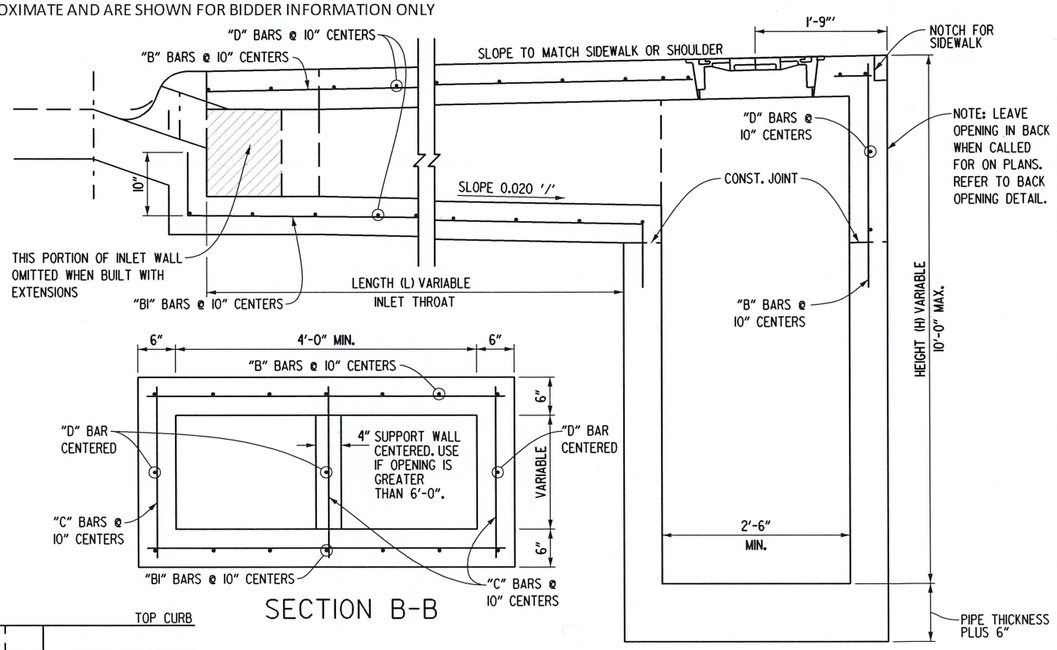


4' EXTENSION



ELEVATION

TYPE C SPECIAL DROP INLET
(NOT TO SCALE)



SECTION B-B

SECTION A-A

GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
3. ALL REINF. BARS SHALL BE #4 AND HAVE 1½" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO CURVATURE OF THE CURB.
5. THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
6. WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (F.P.C.-9D).
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
9. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
10. 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.
11. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTINGS DESIGNS MAY BE REFERRING TO PREVIOUSLY APPROVED DRAWINGS.
14. 4" DIA. COLUMNS SPACED AT MAX. 4'-0" INTERVALS SHALL BE INSTALLED ALONG INLET AND EXTENSION TO SUPPORT TOP.
15. THE THROAT SHALL BE CAST INTEGRALLY WITH THE GUTTER.

SPECIAL DETAILS

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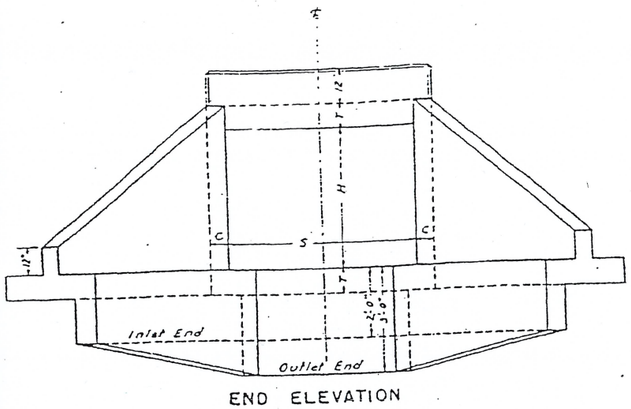
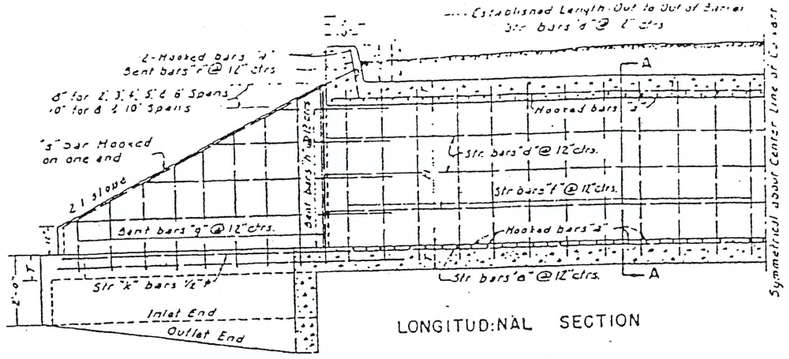
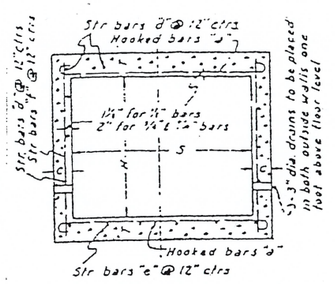
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	23	320
		SPECIAL DETAILS				



END ELEVATION



LONGITUDINAL SECTION



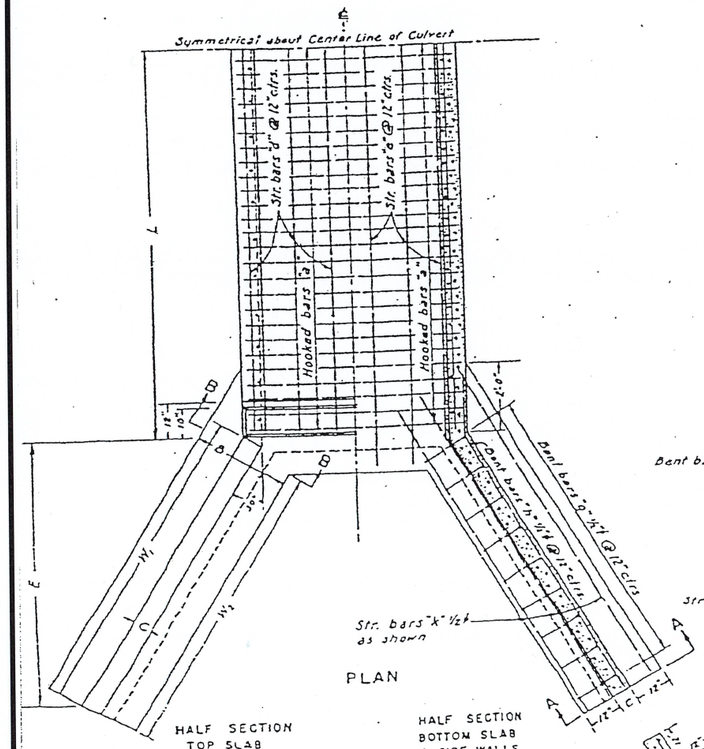
SECTION A-A

DIMENSIONS & QUANTITIES

SPAN	HEIGHT	SKEW (Degrees)	MINIMUM DEPTH OF COVER	THICKNESS OF TOP SLAB WALLS	THICKNESS OF SIDE WALLS	WIDTH OF FOOTING	LENGTH OF FOOTING	LENGTH OF WING WALLS	LENGTH OF WINGWALLS FROM END OF BARREL	CONCRETE CU YD: HEADWALL(S) WINGWALLS & FOOTING	CONCRETE CU YD: PER LINEAR FT OF BARREL	STEEL LB.: HEADWALL(S) WINGWALLS & FOOTING	STEEL LB.: PER LINEAR FT OF BARREL	STEEL LB.: ADD STEEL FOR LAPS
S	H	A	D	T	C	B	W_2	W_1	E					
2	2	20°-0"	6'-9"	8"	8"	2'-6"	3'-5½"	3'-10"	3'-4"	2.38	1.94	155	17.91	8.9
3	2	6	20°-0"	7"	8"	2'-6"	3'-5½"	3'-10"	3'-4"	2.63	2.47	164	22.77	11.1
	3	9			8"		3'-10½"	4'-2"	3'-4"	4.10	2.84	242	25.43	13.4
4	2	6	16°-0"	7½"	8"	2'-6"	3'-6½"	3'-10"	3'-4"	2.90	3.06	173	28.28	13.4
	3	12			8"		5'-10½"	6'-2"	5'-4"	4.36	3.43	251	30.94	15.6
	4	16			8"		8'-2"	8'-5¾"	7'-4"	5.93	3.80	332	33.60	17.8
5	2	10	10°-0"	8"	8"	2'-6"	3'-6½"	3'-10"	3'-4"	3.15	3.70	189	34.56	15.6
	3	15			8"		5'-10½"	6'-2"	5'-4"	4.60	4.07	267	37.22	17.8
	4	20			8"		8'-2"	8'-5¾"	7'-4"	6.29	4.41	370	39.89	20.0
	5	25			7"		10'-8"	10'-9¾"	9'-4"	8.78	5.11	478	42.55	22.3
6	3	18	7'-8"	8½"	8"	2'-6"	5'-10½"	6'-2"	5'-4"	4.94	4.78	278	41.88	20.0
	4	24			8"		8'-2"	8'-5¾"	7'-4"	6.61	5.15	383	43.54	22.3
	5	30			7"		10'-8"	10'-9¾"	9'-4"	9.14	5.92	492	47.20	24.5
	6	36			7"		13'-5"	13'-7"	11'-4"	11.58	6.35	611	49.86	26.7
8	3	24	5'-0"	10½"	7"	2'-9"	6'-3¾"	6'-6½"	5'-8"	6.28	7.14	336	60.81	24.5
	4	32			7"		8'-7½"	8'-10½"	7'-8"	8.25	7.67	429	63.47	26.7
	5	40			7"		11'-0¾"	11'-2"	9'-8"	10.51	8.10	536	66.13	28.9
	6	48			7"		13'-5¾"	13'-5¾"	11'-8"	13.06	8.53	673	68.80	31.2
	7	56			7"		16'-0"	16'-1"	13'-8"	16.03	8.97	976	71.46	33.4
	8	66			8"		18'-10"	18'-1"	15'-8"	20.69	1.000	1168	74.81	35.6
10	4	40	6'-0"	11¾"	7"	2'-9"	6'-7¾"	6'-10½"	7'-8"	8.91	9.43	505	90.62	31.2
	5	50			7"		8'-11¾"	9'-2"	9'-8"	11.33	1.026	611	93.28	33.4
	6	60			7"		11'-4¾"	11'-5¾"	11'-8"	13.99	1.067	749	95.94	35.6
	7	70			7"		13'-9¾"	13'-9"	13'-8"	17.27	1.112	1060	98.60	37.9
	8	80			8"		16'-2"	16'-1"	15'-8"	21.88	1.217	1253	101.26	40.1
	9	90			9"		18'-6¾"	18'-1"	17'-8"	27.55	1.334	1740	111.86	42.3
	10	100			10"		21'-3½"	22'-0½"	19'-8"	34.76	1.463	2181	115.27	44.5

10	3	30	4'-0"	11 3/4"	7"	2'-7"	8'-3 1/2"	6'-6 1/2"	5'-5 1/2"	6.58	0.84	399	88.01	29

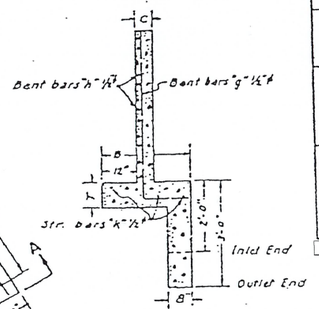
LAP NOTE:
In computing quantities of steel from the above table, add one lap for culverts up to 50' in length and one lap for each additional 25' in length.



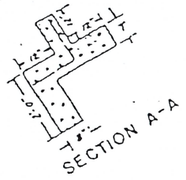
PLAN

HALF SECTION TOP SLAB

HALF SECTION BOTTOM SLAB & SIDE WALLS



SECTION B-B



SECTION A-A

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

STEEL SCHEDULE

For Culvert 32' in Length Out to Out of Barrel

S	H	"a" bars: Size	"a" bars: Spacing	"a" bars: Number	"a" bars: Length	X	"b" bars: Number	"b" bars: Length	"c" bars: Number	"c" bars: Length	"f" bars: Size	"f" bars: Spacing	"f" bars: Number	"f" bars: Length	"g" bars: Size	"g" bars: Spacing	"g" bars: Number	"g" bars: Length	X Min.	X Max.	Y Min.	Y Max.	"h" bars: Size	"h" bars: Spacing	"h" bars: Number	"h" bars: Length	Z Min.	Z Max.	"k" bars: Number	"k" bars: Length	"r" bars: Number	"r" bars: Length	"s" bars: Number	"s" bars: Length
2	2	½"ϕ	6"	122	3'-7"	2'-9"	5		3		½"ϕ	12"	64	2'-10"	½"ϕ	12"	64	2'-11"	1'-4"	2'-9"	1'-3"	1'-3"	½"ϕ	12"	16	3'-4"	1'-4"	3'-8"	12	4'-7"	6	3'-2"	4	5'-3"
3	2			132	4'-7"	3'-9"	5		4										1'-4½"	2'-9½"	1'-3"	1'-3"					1'-4"	3'-8"						
	3	⅝"ϕ	6"	132	4'-7"	3'-9"	5		4																24	3'-9½"							
4	2			144	5'-7"	4'-9"	7		5										1'-5"	2'-10"	1'-3"	1'-3"			16	3'-3"	1'-5"	2'-10"	12	4'-7"	8	3'-2"	4	5'-3"
	3			144	5'-7"	4'-9"	9		5										1'-5"	4'-10"	1'-3"	1'-3"			20	3'-11"	1'-5"	4'-10"	12	5'-11"	10	3'-2"	4	7'-3"
	4	¾"ϕ	5¾"	144	5'-7"	4'-9"	11		5										1'-5"	2'-11"	1'-3"	1'-3"			24	3'-11"	1'-5"	2'-11"	12	4'-7"	12	3'-2"	4	5'-3"
5	2			158	6'-7"	5'-9"	8		6										1'-5"	3'-11"	1'-3"	1'-3"			16	3'-11"	1'-5"	3'-11"	12	4'-7"	14	3'-2"	4	5'-3"
	3			158	6'-7"	5'-9"	10		6										1'-5"	4'-11"	1'-3"	1'-3"			20	3'-11"	1'-5"	4'-11"	12	5'-11"	16	3'-2"	4	7'-3"
	4	¾"ϕ	5"	158	6'-7"	5'-9"	12		6										1'-5"	5'-11"	1'-3"	1'-3"			24	3'-11"	1'-5"	5'-11"	12	5'-11"	18	3'-2"	4	7'-3"
	5			158	6'-7"	5'-9"	14		6										1'-5"	6'-11"	1'-3"	1'-3"			28	3'-11"	1'-5"	6'-11"	12	5'-11"	20	3'-2"	4	7'-3"
6	3			158	7'-7"	6'-9"	11		7										1'-5"	4'-3"	1'-3"	1'-3"			16	4'-3"	1'-5"	4'-3"	12	5'-11"	14	3'-2"	4	10'-3"
	4			158	7'-7"	6'-9"	13		7										1'-5"	5'-3"	1'-3"	1'-3"			20	4'-3"	1'-5"	5'-3"	12	7'-2"	16	3'-2"	4	12'-3"
	5	¾"ϕ	5"	158	7'-7"	6'-9"	15		7										1'-5"	6'-3"	1'-3"	1'-3"			24	4'-3"	1'-5"	6'-3"	12	8'-5"	18	3'-2"	4	14'-3"
	6			158	7'-7"	6'-9"	17		7										1'-5"	7'-3"	1'-3"	1'-3"			28	4'-3"	1'-5"	7'-3"	12	9'-8"	20	3'-2"	4	16'-3"
8	3			132	5'-8"	4'-10"	13		9										1'-6"	4'-5"	1'-3"	1'-3"			16	4'-6"	1'-6"	4'-5"	12	5'-11"	14	3'-2"	4	10'-3"
	4			132	5'-8"	4'-10"	15		9										1'-6"	5'-5"	1'-3"	1'-3"			20	4'-6"	1'-6"	5'-5"	12	7'-2"	16	3'-2"	4	12'-3"
	5	⅞"ϕ	6"	132	5'-8"	4'-10"	17		9										1'-6"	6'-5"	1'-3"	1'-3"			24	4'-6"	1'-6"	6'-5"	12	8'-5"	18	3'-2"	4	14'-3"
	6			132	5'-8"	4'-10"	19		9										1'-6"	7'-5"	1'-3"	1'-3"			28	4'-6"	1'-6"	7'-5"	12	9'-8"	20	3'-2"	4	16'-3"
	7			132	5'-8"	4'-10"	21		9										1'-6"	8'-5"	1'-3"	1'-3"			32	4'-6"	1'-6"	8'-5"	12	11'-2"	22	3'-2"	4	18'-3"
	8			132	5'-8"	4'-10"	23		9										1'-6"	9'-5"	1'-3"	1'-3"			36	4'-6"	1'-6"	9'-5"	12	12'-8"	24	3'-2"	4	20'-3"
10	4			132	5'-10"	9'-0"	23		11										1'-7"	6'-7"	1'-3"	1'-3"			20	5'-0"	1'-7"	6'-7"	12	7'-2"	16	3'-2"	4	12'-3"
	5			86	12'-4"	10'-10"	17		11										1'-7"	7'-7"	1'-3"	1'-3"			24	5'-0"	1'-7"	7'-7"	12	8'-5"	18	3'-2"	4	14'-3"
	6			86	12'-4"	10'-10"	19		11										1'-7"	8'-7"	1'-3"	1'-3"			28	5'-0"	1'-7"	8'-7"	12	9'-8"	20	3'-2"	4	16'-3"
	7			86	12'-4"	10'-10"	21		11										1'-7"	9'-7"	1'-3"	1'-3"			32	5'-0"	1'-7"	9'-7"	12	11'-2"	22	3'-2"	4	18'-3"
	8			86	12'-4"	10'-10"	23		11										1'-7"	10'-7"	1'-3"	1'-3"			36	5'-0"	1'-7"	10'-7"	12	12'-8"	24	3'-2"	4	20'-3"
	9			86	12'-8"	11'-2"	27		11										1'-7"	11'-7"	1'-3"	1'-3"			40	5'-0"	1'-7"	11'-7"	12	14'-2"	24	3'-2"	4	22'-3"
	10			86	12'-10"	11'-4"	29		11										1'-7"	12'-7"	1'-3"	1'-3"			44	5'-0"	1'-7"	12'-7"	12	15'-8"	24	3'-2"	4	24'-3"

10	3	#7	9 1/2"	86	12'-4"	10'-10"	15	31'-9"	11	33'-9"	#4	12"	64	4'-7"	#4	12"	28	4'-4"	1'-5"	4'-4"	1'-4"	1'-4"	16	4'-4"	1'-4"	4'-5"	12	3'-4"	24	3'-6"	4	8'-3"

NOTE: LENGTHS GIVEN ABOVE DO NOT INCLUDE OVERLAP

SPECIFICATIONS:- *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 "S"*

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

SPECIAL DETAILS

ARKANSAS STATE HIGHWAY COMMISSION

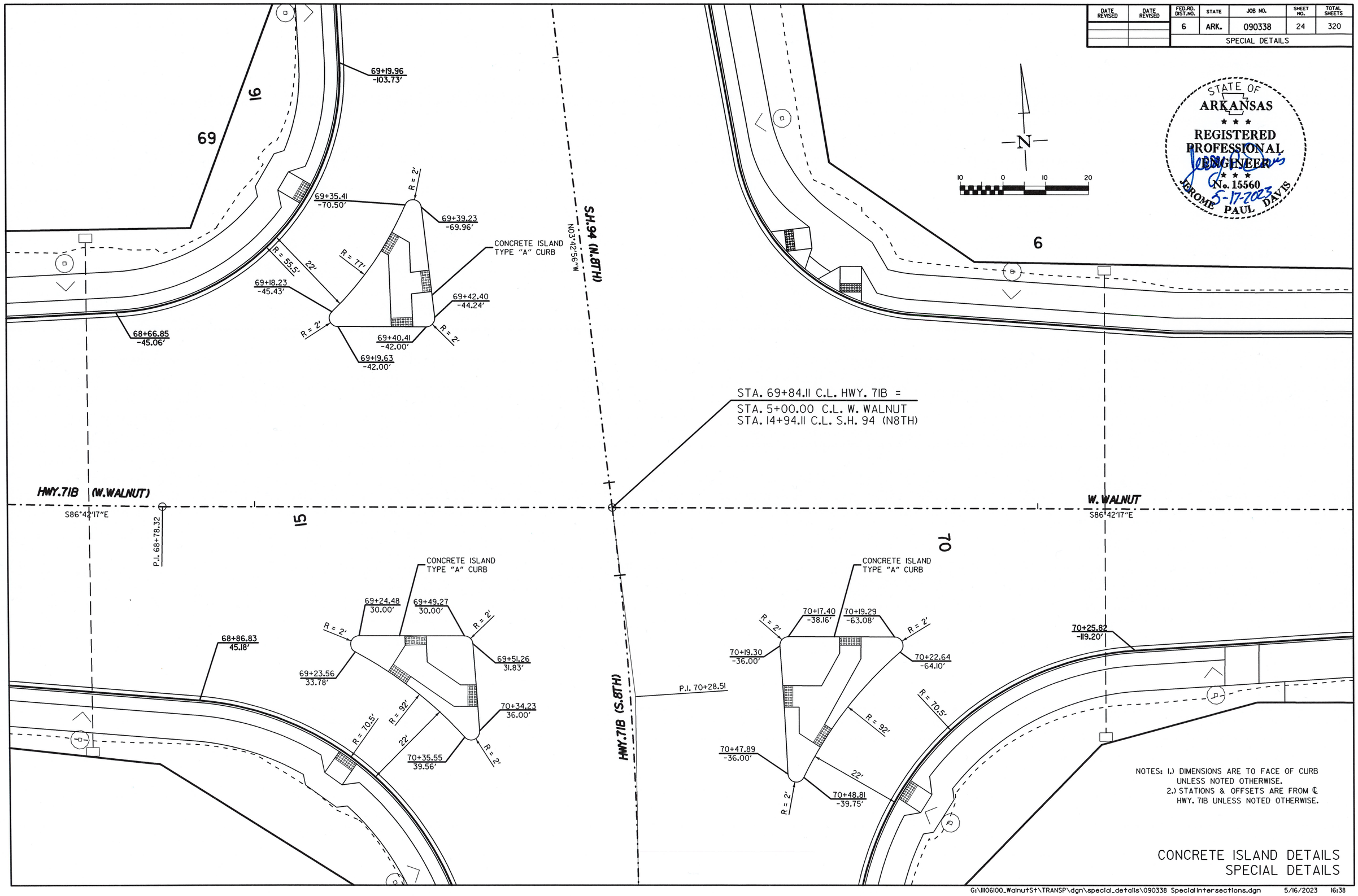
REINFORCED CONCRETE BOX CULVERTS

SINGLE

USER: JJS206
DESIGN FILE: G:\110106100_WalnutSt\TRANSP\dgn\special_details\090338 SpecialDetails.dgn
PLOTTED: 5/16/2023 16:37
SCALE: NOO
MODEL: SPECIAL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	24	320
		SPECIAL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023



NOTES: 1.) DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
2.) STATIONS & OFFSETS ARE FROM ℄ HWY. 71B UNLESS NOTED OTHERWISE.

CONCRETE ISLAND DETAILS
SPECIAL DETAILS

USER: JJ5206
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MODEL: PERMANENT PAVEMENT MARKING DETAILS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	25	320

TEMPORARY EROSION CONTROL DETAILS

STA. 11+90.00
BEGIN JOB 090338

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

P.I. 11+70.00

P.I. 8+10.00

P.I. 30+27.21

DIXIELAND ROAD

HWY.71B (W.WALNUT)

N.14TH PLACE

N.14TH STREET

S.15TH STREET

EXIST. R/W

PROPOSED R/W

CONST. LIMITS

T.C.E.

E-13 +15, +14, +73, +89, +43, +83, +11, +86, +31, +45, +20, +95, +83, +40, +80, +60, +65, +48, +58, +05, +12, +04

50 25 0 25 50 100

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-11 = SILT FENCE
E-13 = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

25' BUFFER ZONE

S 87°02'29.5" E

36+53.40

REVISIONS

DATE	REVISION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
JEROME PAUL DAVIS
No. 15560
05-17-2023

STAGE 1
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
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MODEL: EC STAGE ISHEETS
SCALE: 1:100

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	26	320

TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
JEROME PAUL DAVIS
No. 13560
5-17-2023

℄ N. 13TH STREET STA. 17+20.00
END CONST.

℄ HWY. 71B STA. 43+26.63 =
℄ 13th ST. P.I. STA. 15+00.00
△ = 90°42'06.3"

℄ S. 13TH STREET STA. 13+55.00
BEGIN CONST.

N.14TH PLACE · N.14TH STREET · N.13TH STREET · 12TH STREET · S.13TH STREET · S.12TH STREET · N.10TH STREET · S.10TH STREET

HWY.71B (W.WALNUT)

25' BUFFER ZONE · CONST. LIMITS · T.C.E. · PROPOSED R/W · EXIST. R/W

P.I. 36+53.40 · P.I. 41+62.35 · P.I. 46+79.63 · P.I. 54+87.94 · P.I. 58+13.63 · P.I. 59+90.03 · P.I. 63+45.04

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
(E-13) = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

REVISIONS

DATE	REVISION

STAGE 1
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\110610O_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
PLOTTED: 5/16/2023 16:38
MODEL: EC STAGE 1SHEETS
SCALE: 1:100

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	27	320

TEMPORARY EROSION CONTROL DETAILS

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
= GENERAL SITE FLOW DIRECTION INDICATOR
(E-13) = INLET BARRIER FILTER SOCK

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

℄ HWY. 94 STA. 19+35.00
END CONST.

P.T. 19+07.80

P.C. 17+99.00

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ HWY. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

℄ W. WALNUT ST. STA. 10+21.00
END CONST.

P.I. 68+78.32

P.I. 63+45.04

P.I. 65+96.36

P.T. 70+72.82

P.I. 70+28.51

P.I. 10+49.55

STA. 75+00.00
END JOB 090338

N. 9TH STREET

HWY. 94 (8TH STREET)

HWY. 71B (W. WALNUT)

W. WALNUT

HWY. 71B (8TH STREET)

25' BUFFER ZONE

CONST. LIMITS

PROPOSED R/W

EXIST. R/W

T.C.E.

REVISIONS

DATE	REVISION

STAGE 1
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
PLOTTED: 5/16/2023 16:38
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MODEL: EC STAGE 1SHEETS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	28	320

TEMPORARY EROSION CONTROL DETAILS

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
(E-13) = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

50 25 0 25 50 100

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

℄ DIXIELAND RD. STA. 6+00.00
BEGIN CONST.

℄ DIXIELAND RD. STA. 13+80.00
END CONST.

HWY. 71B (W. WALNUT)

DIXIELAND ROAD

P.I. 5+00.00
P.I. 5+99.94
P.I. 8+10.00
P.I. 11+70.00
P.I. 13+84.70
P.I. 15+00.00

EXIST. R/W
PROPOSED R/W
T.C.E.
CONST. LIMITS
25' BUFFER

N 03°02'36.2" E
N 1°36'40.6" E
N 2°56'01.4" E
S 87°03'54.0" E
N 2°15'37.1" E
N 1°42'10.4" E
N 2°54'30.0" E
S 87°02'23.5" E

REVISIONS

DATE	REVISION

STAGE 1
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
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SCALE: 1:100
MODEL: EC STAGE 1 SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	29	320

TEMPORARY EROSION CONTROL DETAILS

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
(E-13) = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

50 25 0 25 50 100

STA. 75+00.00
END JOB 090338

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ HWY. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

℄ HWY. 94 STA. 19+35.00
END CONST.

HWY.71B (8TH STREET)
HWY.94 (8TH STREET)
HWY. 71B (W.WALNUT)
W. WALNUT
N. 9TH STREET

P.I. 65+96.36
P.I. 68+78.32
P.I. 70+28.5
P.T. 70+72.82
P.C. 17+99.00
P.T. 19+07.80
P.I. 18+93.46

S 85°54'38.8" E
S 86°42'17.4" E
S 2°29'39.4" W
N03°42'56.6"W
N 2°48'44.2" E

T.C.E.
PROPOSED R/W
EXIST. R/W
CONST. LIMITS

REVISIONS

DATE	REVISION

STAGE 1
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
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SCALE: 1:100
MODEL: EC STAGE I SHEETS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	30	320

TEMPORARY EROSION CONTROL DETAILS

STA. 11+90.00
BEGIN JOB 090338

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

N

50 25 0 25 50 100

CONST. LIMITS
P.I. 11+70.00
DIXIELAND ROAD
N 1°42'10.4" E
N 2°15'37.1" E
N 2°56'01.4" E
EXIST. R/W
PROPOSED R/W
T.C.E.
HWY.71B (W.WALNUT)
S 87°03'54.0" E
S 87°02'29.5" E
P.I. 8+10.00
PROPOSED R/W

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
= GENERAL SITE FLOW DIRECTION INDICATOR
(E-13) = INLET BARRIER FILTER SOCK

25' BUFFER ZONE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

P.I. 30+27.21
N.14TH PLACE
N.14TH STREET
S.15TH STREET
36+53.40

REVISIONS

DATE	REVISION

STAGE 2
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
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MODEL: EC STAGE 3 SHEETS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	31	320

TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

℄ N. 13TH STREET STA. 17+20.00
END CONST.

℄ HWY. 71B STA. 43+26.63 =
℄ 13th ST. P.I. STA. 15+00.00
△ = 90°42'06.3"

℄ S. 13TH STREET STA. 13+55.00
BEGIN CONST.

N.14TH PLACE · N.14TH STREET · N.13TH STREET · 12TH STREET · HWY.71B (W.WALNUT)

EXIST. R/W · PROPOSED R/W · CONST. LIMITS · 25' BUFFER ZONE · T.C.E.

P.I. 41+62.35 · P.I. 36+53.40

S 87°02'29.5" E · S 87°03'49.0" E · S 86°47'55.9" E

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
(E-13) = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

REVISIONS

DATE	REVISION

S.13TH STREET · S.12TH STREET · N.10TH STREET · S.10TH STREET · HWY.71B (W.WALNUT)

P.I. 54+87.94 · P.I. 58+13.63 · P.I. 59+90.03 · P.I. 63+45.04 · 46+79.63

STAGE 2
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJS206
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
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MODEL: EC STAGE 3 SHEETS

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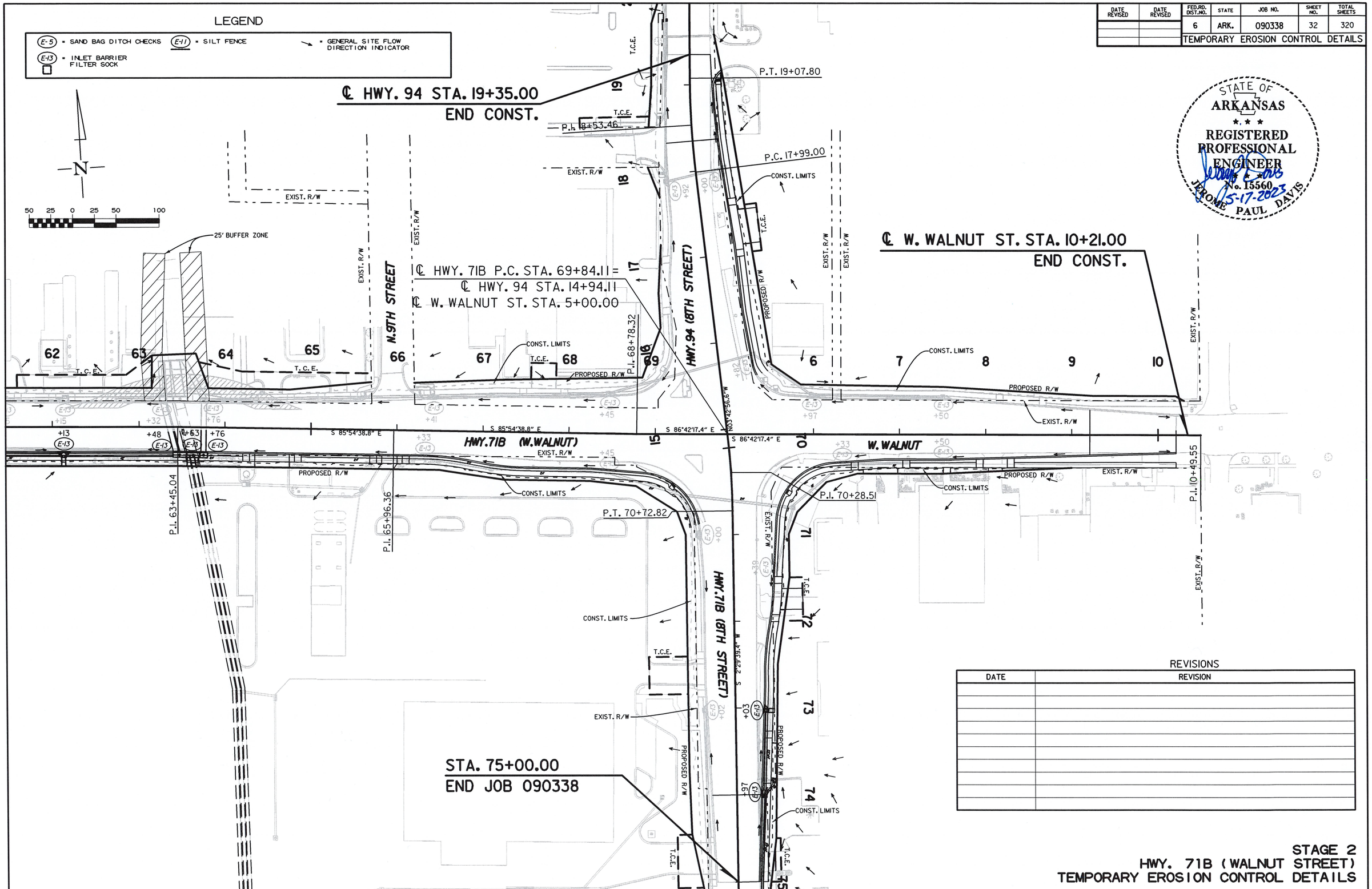
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	32	320

TEMPORARY EROSION CONTROL DETAILS



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

REVISIONS

DATE	REVISION

STAGE 2
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	33	320

TEMPORARY EROSION CONTROL DETAILS

LEGEND

(E-5) = SAND BAG DITCH CHECKS
(E-11) = SILT FENCE
(E-13) = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

50 25 0 25 50 100

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

℄ DIXIELAND RD. STA. 6+00.00
BEGIN CONST.

℄ DIXIELAND RD. STA. 13+80.00
END CONST.

HWY. 71B (W. WALNUT)

DIXIELAND ROAD

P.I. 5+00.00
P.I. 5+99.94
P.I. 8+10.00
P.I. 11+70.00
P.I. 13+84.70
P.I. 15+00.00

EXIST. R/W
PROPOSED R/W
CONST. LIMITS
T.C.E.
25' BUFFER

N 03°02'36.2" E
N 1°36'40.6" E
N 2°56'01.4" E
N 2°15'37.1" E
N 1°42'10.4" E
N 2°54'30.0" E
S 87°03'54.0" E
S 87°02'23.5" E

REVISIONS

DATE	REVISION

STAGE 2
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
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SCALE: 1:00
MODEL: EC STAGE 3 SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	34	320

TEMPORARY EROSION CONTROL DETAILS

LEGEND

E-5 = SAND BAG DITCH CHECKS
E-11 = SILT FENCE
E-13 = INLET BARRIER FILTER SOCK
= GENERAL SITE FLOW DIRECTION INDICATOR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

STA. 75+00.00
END JOB 090338

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ HWY. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

℄ HWY. 94 STA. 19+35.00
END CONST.

HWY.71B (8TH STREET)
HWY.71B (N.WALNUT)
HWY.94 (8TH STREET)
N.9TH STREET
W.WALNUT

P.I. 65+96.36
P.I. 68+78.32
P.I. 70+28.5
P.T. 70+72.82
P.I. 18+53.46
P.C. 17+99.00
P.T. 19+07.80

S 85°54'38.8" E
S 86°42'17.4" E
S 2°29'39.4" W
N03°42'56.6"W
N 2°48'44.2" E

CONST. LIMITS
PROPOSED R/W
EXIST. R/W
T.C.E.

REVISIONS

DATE	REVISION

STAGE 2
HWY. 71B (WALNUT STREET)
TEMPORARY EROSION CONTROL DETAILS

USER: JJ5206
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\erosion\090338 E C Sheets.dgn
PLOTTED: 5/16/2023 16:38
SCALE: 1:100
MODEL: EC STAGE 3 SHEETS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	35	320
		MAINTENANCE OF TRAFFIC DETAILS				

STAGE IA:

CONSTRUCT TEMP. PAVEMENT WIDENING STA. 21+51 RT. TO STA. 26+21 RT., MODIFY DROP INLET AT STA. 23+83 RT.

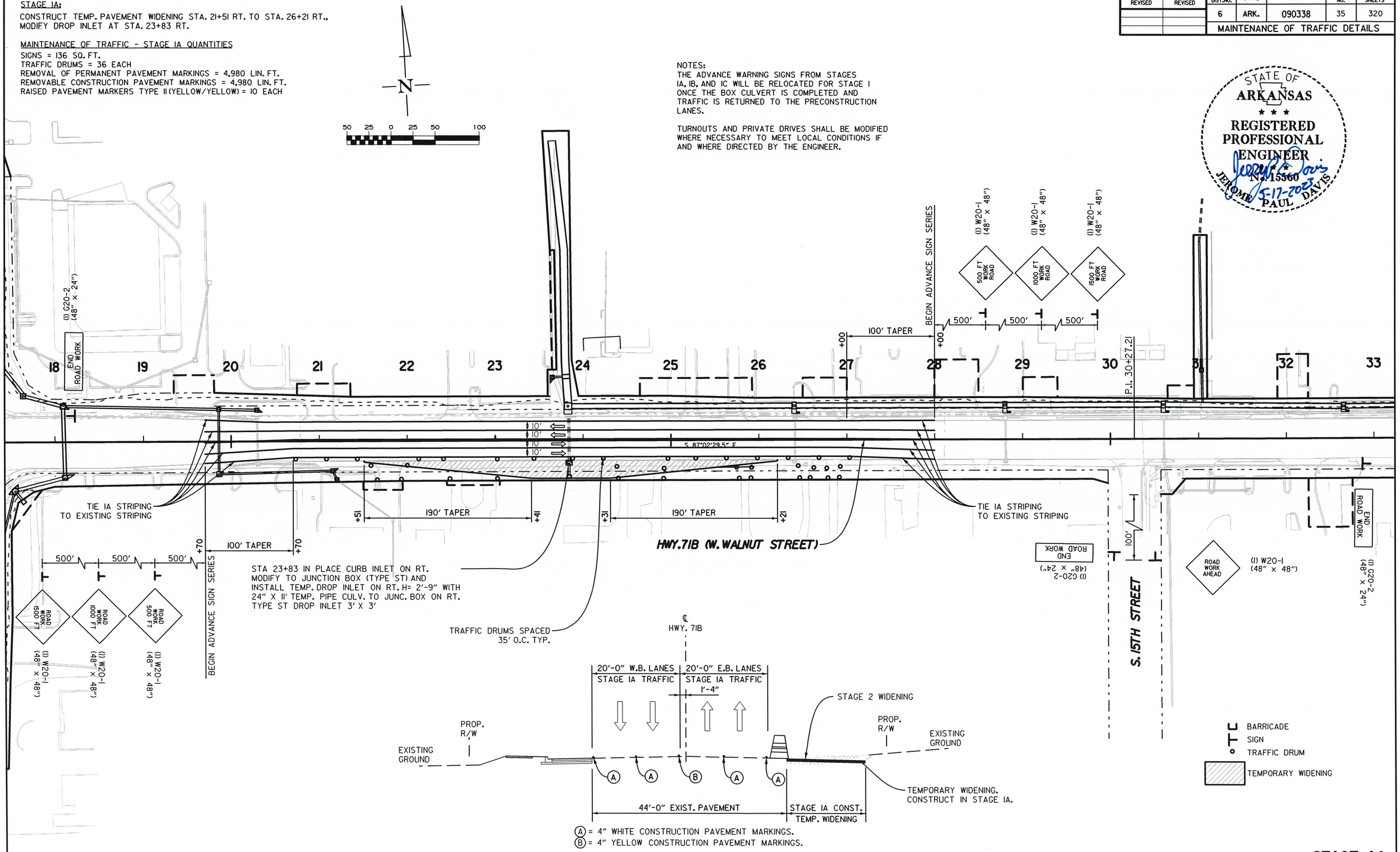
MAINTENANCE OF TRAFFIC - STAGE IA QUANTITIES

SIGNS = 136 SQ. FT.
TRAFFIC DRUMS = 36 EACH
REMOVAL OF PERMANENT PAVEMENT MARKINGS = 4,980 LIN. FT.
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS = 4,980 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) = 10 EACH

NOTES:
THE ADVANCE WARNING SIGNS FROM STAGES IA, IB, AND IC WILL BE RELOCATED FOR STAGE I ONCE THE BOX CULVERT IS COMPLETED AND TRAFFIC IS RETURNED TO THE PRECONSTRUCTION LANES.

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
JEROME PAUL DAVIS
No. 15360
Jerome P. Davis 5-17-2023



HWY. 71B STA. 23+83
STAGING DETAIL

STAGE 1A
HWY. 71B (WALNUT STREET)
MAINTENANCE OF TRAFFIC DETAILS

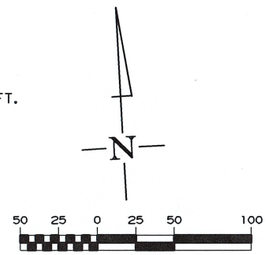
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn MODEL: MOT STAGE Ia SHEETS
PLOTTED: 5/17/2023 13:36 SCALE: 1:98.0294

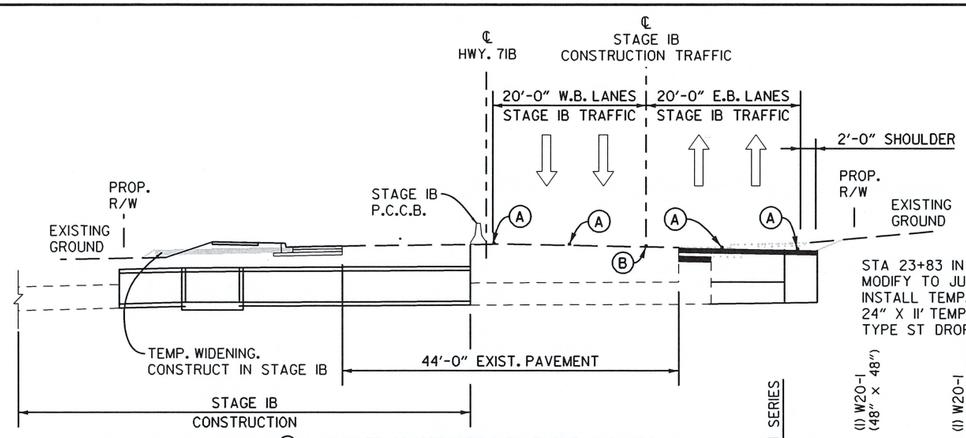
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	36	320
		MAINTENANCE OF TRAFFIC DETAILS				

STAGE IB:
REMOVE CONFLICTING PAVEMENT MARKINGS AND STRIPE STAGE IB TRAFFIC TO SHIFT RIGHT STA. 21+51 RT. TO STA. 26+21 RT. CONSTRUCT BOX CULVERT STA. 23+83 LT. CONSTRUCT TEMPORARY WIDENING STA. 21+16 LT. TO STA. 26+34 LT. PROVIDE POSITIVE DRAINAGE TO EXIST. 5'X3' BOX CULVERT STA. 23+83 LT.

MAINTENANCE OF TRAFFIC - STAGE IB QUANTITIES

SIGNS = 176 SQ. FT.
TRAFFIC DRUMS = 73 EACH
FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER = 186 LIN. FT.
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS = 4,992 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) = 10 EACH





Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.

STA 23+83 IN PLACE CURB INLET ON RT. MODIFY TO JUNCTION BOX (TYPE ST) AND INSTALL TEMP. DROP INLET ON RT. H= 2'-9" WITH 24" X 11' TEMP. PIPE CULV. TO JUNC. BOX ON RT. TYPE ST DROP INLET 3' X 3'

STATE OF ARKANSAS ★ ★ ★ REGISTERED PROFESSIONAL ENGINEER ★ ★ ★ No. 15560 JEROME PAUL DAVIS
Jerome Davis 5-22-2023

STA. 23+83 LT. CONSTRUCT TEMPORARY CONNECTION TO EXISTING STORM SEWER

FURNISH & INSTALL 160' P.C.C.B +(2) END UNITS

STORM SEWER CROSSING HWY. 71B STA. 23+83 STAGING DETAIL

TRAFFIC DRUMS SPACED 20' O.C. TYP.

(1) W24-1aL (36" X 36")
(1) W13-1 (18" X 18")
20 M.P.H.
100' TAPER
BEGIN ADVANCE SIGN SERIES
(1) W20-1 (48" X 48") 500 FT WORK ROAD
(1) W20-1 (48" X 48") 1000 FT WORK ROAD
(1) W20-1 (48" X 48") 1500 FT WORK ROAD
500' 500' 500'

(1) G20-2 (48" X 24") END ROAD WORK

(3) OM-3L (12"X 36")
(4) OM-3R (12"X 36")

18 19 20 21+16 22 23 +45 24 +05 25 26 +34 27 +00 28 +00 29 30 P.I. 30+27.21 31 32 33

S 87°02'29.5" E

10' 10' 10' 10'

TIE IB STRIPING TO EXISTING STRIPING

+51 190' TAPER +41

+31 190' TAPER +21

TRAFFIC DRUMS SPACED 35' O.C. TYP.

TRAFFIC DRUMS SPACED 35' O.C. TYP.

TIE IB STRIPING TO EXISTING STRIPING

HWY. 71B (W. WALNUT STREET)

S. 15TH STREET

100'

END ROAD WORK (1) G20-2 (48" X 24")

ROAD WORK AHEAD (1) W20-1 (48" X 48")

END ROAD WORK (1) G20-2 (48" X 24")

500' 500' 500' +70 100' TAPER +70

BEGIN ADVANCE SIGN SERIES

20 M.P.H. (1) W13-1 (18" X 18")

(1) W24-1aR (36" X 36")

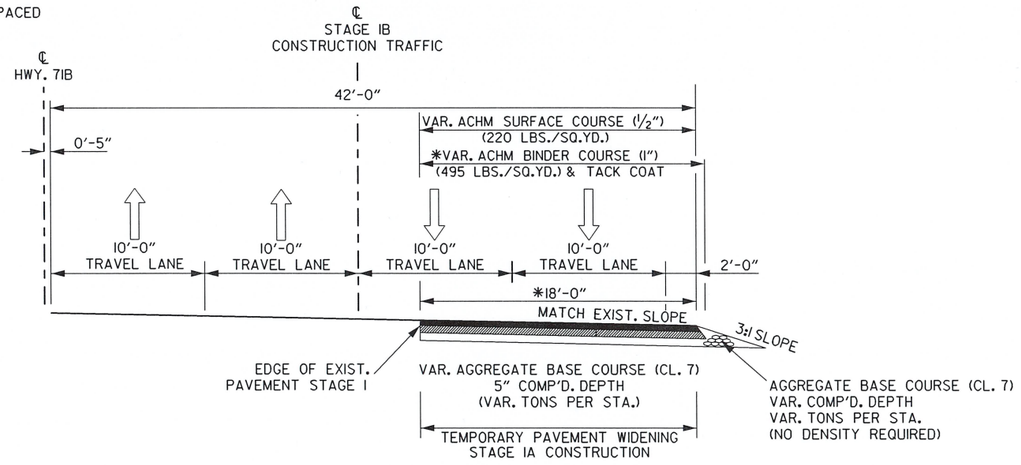
ROAD WORK 1500 FT (1) W20-1 (48" X 48")

ROAD WORK 1000 FT (1) W20-1 (48" X 48")

ROAD WORK 500 FT (1) W20-1 (48" X 48")

NOTES:
THE ADVANCE WARNING SIGNS FROM STAGES IA, IB, AND IC WILL BE RELOCATED FOR STAGE I ONCE THE BOX CULVERT IS COMPLETED AND TRAFFIC IS RETURNED TO THE PRECONSTRUCTION LANES.

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



*WIDTH VARIES FROM 2'-0" AT STA. 21+51 TO 20'-5" AT STA. 23+40 AND 20'-5" AT STA. 24+30 TO 2'-0" AT STA. 26+19.

WIDENING FOR MAINTENANCE OF TRAFFIC LT.
STA. 21+51 TO STA. 26+19

BARRICADE
SIGN
TRAFFIC DRUM
TEMPORARY WIDENING

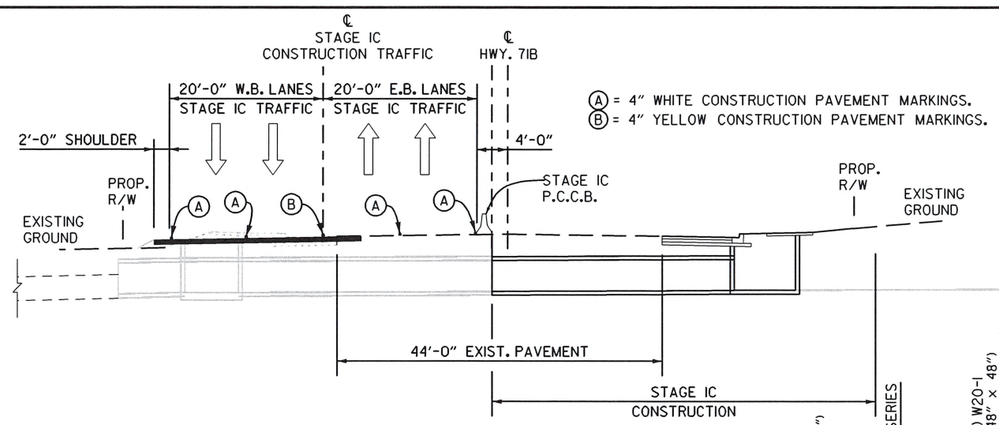
STAGE 1B
HWY. 71B (WALNUT STREET) MAINTENANCE OF TRAFFIC DETAILS

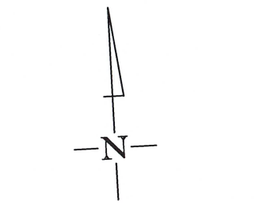
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn MODEL: MOT STAGE Ib SHEETS
PLOTTED: 5/22/2023 13:57 SCALE: 1:98.0294

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	37	320
		MAINTENANCE OF TRAFFIC DETAILS				

STAGE IC:
REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE REMOVABLE PAVEMENT MARKINGS FOR STAGE IC TRAFFIC TO SHIFT LEFT STA. 21+16 LT. TO STA. 26+34 LT. ON TEMP. WIDENING. REMOVE TEMP. WIDENING RT. CONSTRUCT BOX CULVERT RT. AT STA. 23+83.

MAINTENANCE OF TRAFFIC - STAGE IC QUANTITIES
SIGNS = 176 SQ. FT.
TRAFFIC DRUMS = 83 EACH
RELOCATING PRECAST CONCRETE BARRIER = 186 LIN. FT.
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS = 4,980 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) = 10 EACH





STORM SEWER CROSSING
HWY. 71B STA. 23+83
STAGING DETAIL

*WIDTH VARIES FROM 2'-0" AT STA. 21+16 TO 24'-0" AT STA. 23+45 AND 24'-0" AT STA. 24+05 TO 2'-0" AT STA. 26+34.

WIDENING FOR MAINTENANCE OF TRAFFIC LT.
STA. 21+16 TO STA. 26+34

NOTES:
THE ADVANCE WARNING SIGNS FROM STAGES IA, IB, AND IC WILL BE RELOCATED FOR STAGE I ONCE THE BOX CULVERT IS COMPLETED AND TRAFFIC IS RETURNED TO THE PRECONSTRUCTION LANES.

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

BARRICADE
SIGN
TRAFFIC DRUM
TEMPORARY WIDENING

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-22-2023

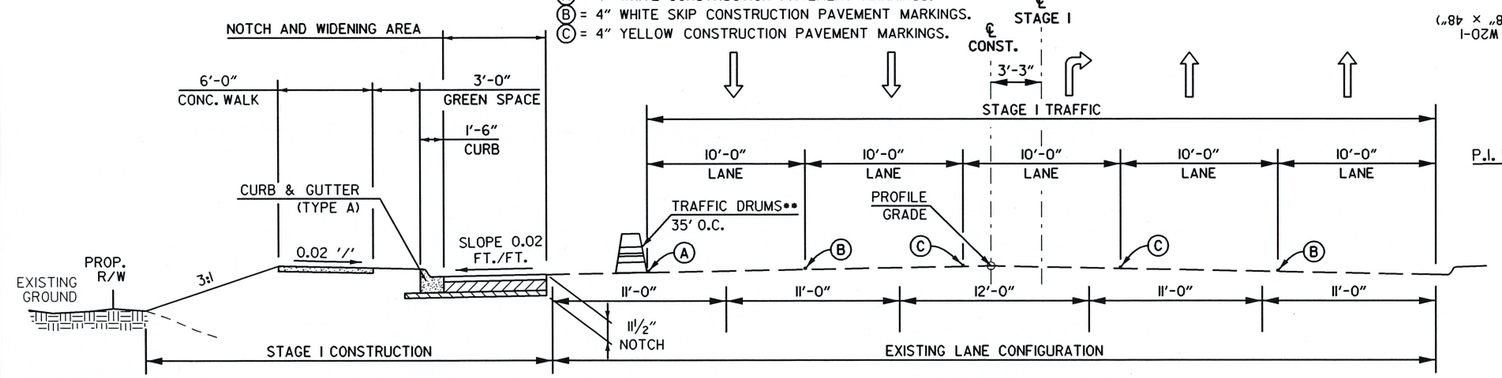
STAGE 1C
HWY. 71B (WALNUT STREET)
MAINTENANCE OF TRAFFIC DETAILS

DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn MODEL: MOT STAGE Ic SHEETS
PLOTTED: 5/22/2023 13:57 SCALE: 1:98.0294

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	38	320

MAINTENANCE OF TRAFFIC DETAILS

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.



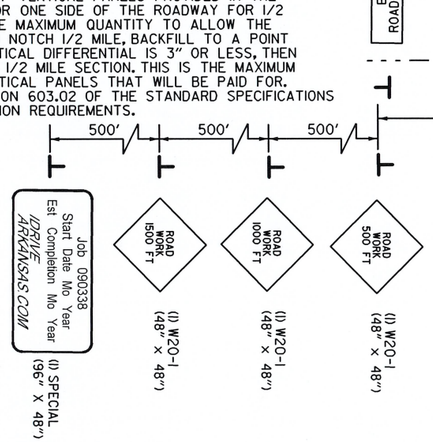
•• USE VERTICAL PANELS IN LOCATIONS WHERE THERE IS INSUFFICIENT ROOM FOR TRAFFIC DRUMS.

FILL SECTION

MAINTENANCE OF TRAFFIC - STAGE I QUANTITIES

SIGNS = 804 SQ. FT.
TYPE II BARRICADES RT. = 80 LIN. FT.
TYPE II BARRICADES LT. = 80 LIN. FT.
TRAFFIC DRUMS = 400 EACH
VERTICAL PANELS = 150 EACH
REMOVAL OF PERMANENT PAVEMENT MARKINGS = 17,610 LIN. FT.
REMOVAL OF PERMANENT PAVEMENT MARKINGS WORDS = 14 EACH
REMOVAL OF PERMANENT PAVEMENT MARKINGS ARROWS = 18 EACH
CONSTRUCTION PAVEMENT MARKINGS = 19,475 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 139 EACH
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) = 70 EACH

NOTE:
THE QUANTITY OF VERTICAL PANELS PROVIDED IN THE CONTRACT IS FOR ONE SIDE OF THE ROADWAY FOR 1/2 MILE. THIS IS THE MAXIMUM QUANTITY TO ALLOW THE CONTRACTOR TO NOTCH 1/2 MILE, BACKFILL TO A POINT WHERE THE VERTICAL DIFFERENTIAL IS 3" OR LESS, THEN NOTCH ANOTHER 1/2 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.



STAGE I

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
Δ = 90°41'53.4"

STA. 11+90.00
BEGIN JOB 090338

(1) G20-2 (48" × 24")
END ROAD WORK
8' BARR. TYP. II LT.
(1) R9-9 (24" × 12")
SIDEWALK CLOSED
TRAFFIC DRUMS SPACED 20' O.C. TYP.
HWY. 71B (W. WALNUT STREET)
S 87°03'54.0" E
TRAFFIC DRUMS SPACED 35' O.C. TYP.

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

STAGE I:

REMOVE CONFLICTING PAVEMENT MARKINGS AND STRIPE STAGE I CONSTRUCTION LANES (4 OR 5-10' LANES) AS SHOWN TO MAINTAIN TRAFFIC.
CONSTRUCT STORM SEWER DRAINAGE AND SIDEWALKS IN AND ADJACENT TO WIDENED AREAS.
NOTCH AND WIDEN HWY. 71B (W. WALNUT STREET) LT.
CONSTRUCT STORM SEWER CROSSINGS AND CONNECT TO EXISTING STORM SEWER AS NEEDED TO MAINTAIN POSITIVE DRAINAGE OF PAVEMENT. ALL CROSSINGS EXCEPT AT STA. 23+83 TO BE CONSTRUCTED DURING NON-PEAK HOURS.
NOTCH AND WIDEN EAST SIDE DIXIELAND RD. AT INTERSECTION.
NOTCH AND WIDEN WEST SIDE 13TH STREET NORTH OF INTERSECTION.
NOTCH AND WIDEN EAST SIDE 13TH STREET SOUTH OF INTERSECTION.
NOTCH AND WIDEN WEST SIDE AT 8TH ST. AT INTERSECTION.
REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURES IN STAGE I WORK AREA.
DELINEATE THE WORK ZONE USING TRAFFIC DRUMS AT 35' O.C. ON THE SIDE BEING WIDENED.
DELINEATE CITY STREETS AND DRIVEWAYS THROUGHOUT THE PROJECT USING TRAFFIC DRUMS AT 20' O.C. ON THE SIDE BEING WIDENED.

CONSTRUCT APPROACHES, SIDEWALKS & LIGHTING IN STAGE I OF WIDENING AREAS.

WIDENING WILL NOT INCLUDE FINAL LIFT OF ASPHALT IN STAGE I.

CONSTRUCT SIGNALS AT THE INTERSECTIONS OF DIXIELAND, 13TH, AND 8TH ST.

STAGE IA:

CONSTRUCT TEMP. PAVEMENT WIDENING STA. 21+51 RT. TO STA. 26+21 RT., MODIFY DROP INLET AT STA. 23+83 RT.

STAGE IB:

REMOVE CONFLICTING PAVEMENT MARKINGS AND STRIPE STAGE IB TRAFFIC TO SHIFT RIGHT STA. 21+51 RT. TO STA. 26+21 RT. CONSTRUCT BOX CULVERT STA. 23+83 LT. CONSTRUCT TEMPORARY WIDENING STA. 21+16 LT. TO STA. 26+34 LT. PROVIDE POSITIVE DRAINAGE TO EXIST. 5'X3' BOX CULVERT STA. 23+83 LT.

STAGE IC:

REMOVE CONFLICTING PAVEMENT MARKINGS AND STRIPE STAGE IC TRAFFIC TO SHIFT LEFT STA. 21+16 LT. TO STA. 26+34 LT. ON TEMP. WIDENING. REMOVE TEMP. WIDENING RT. CONSTRUCT BOX CULVERT RT. AT STA. 23+83.

STAGE 2:

REMOVE TEMPORARY WIDENING LT. AND CONSTRUCT CURB & GUTTER AND WIDENING STA. 20+71 TO STA. 27+87 RT., AND STA. 62+00 TO STA. 64+90 LT.

REMOVE CONFLICTING PAVEMENT MARKING & STRIPE STAGE 2 CONSTRUCTION LANES AS SHOWN TO MAINTAIN TRAFFIC.
CONSTRUCT REMAINDER OF STORM SEWER DRAINAGE.
NOTCH AND WIDEN HWY. 71B (W. WALNUT ST.) RT.
NOTCH AND WIDEN WEST SIDE DIXIELAND RD. AT INTERSECTION.
NOTCH AND WIDEN EAST SIDE 13TH ST. NORTH OF INTERSECTION.
NOTCH AND WIDEN WEST SIDE 13TH ST. SOUTH OF INTERSECTION.
NOTCH AND WIDEN EAST SIDE 8TH ST. AT INTERSECTION.
REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURES IN STAGE 2 WORK AREA.
DELINEATE THE WORK ZONE USING TRAFFIC DRUMS AT 35' O.C. ON THE SIDE BEING WIDENED.
DELINEATE CITY STREETS AND DRIVEWAYS THROUGHOUT THE PROJECT USING TRAFFIC DRUMS AT 20' O.C. ON THE SIDE BEING WIDENED.
CONSTRUCT APPROACHES, SIDEWALKS & LIGHTING IN STAGE 2 WIDENING AREAS.

PLACE FINAL LIFT OF 2" ACHM SURFACE COURSE, PLACE PERMANENT PAVEMENT MARKINGS, CLEANUP AND OPENING COMPLETED ROADWAY TO FULL TWO-WAY TRAFFIC UTILIZING ALL LANES.
CONSTRUCT LANDSCAPE AND IRRIGATION ITEMS.

℄ DIXIELAND RD. STA. 6+00.00
BEGIN CONST.

P.I. 15+00.00
END ROAD WORK
(1) G20-2
(48" × 48") (1) W20-1
ROAD WORK AHEAD
℄ DIXIELAND RD. STA. 13+80.00
END CONST.
P.I. 13+84.70
DIXIELAND ROAD
8' BARR. TYP. II LT.
SIDEWALK CLOSED
(1) R9-9 (24" × 12")
TRAFFIC DRUMS SPACED 35' O.C. TYP.
FOR MOT DEVICE INFORMATION SEE DIXIELAND STAGE I DETAIL
88' TAPER
P.I. 11+70.00
N 02°15'37.7" E
N 02°56'01.4" E
160' TAPER
99' TAPER
P.I. 8+10.00
FOR MOT DEVICE INFORMATION SEE DIXIELAND STAGE I DETAIL
P.I. 5+99.94
SIDEWALK CLOSED
(1) R9-9 (24" × 12")
8' BARR. TYP. II RT.
50 25 0 25 50 100
BARRICADE
SIGN
TRAFFIC DRUM
REFER TO DIXIELAND ROAD & HWY. 71B SHEET FOR ADVANCE SIGNING THIS LOCATION.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
Jerome Davis 05-17-2023

STAGE 1
HWY. 71B (WALNUT STREET) & DIXIELAND ROAD
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn
PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE I SHEETS

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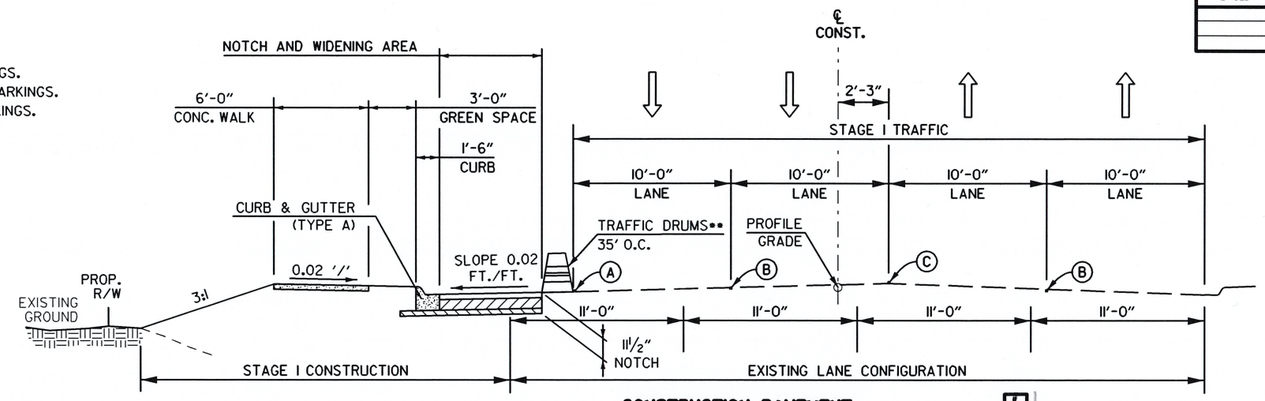
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	39	320
		MAINTENANCE OF TRAFFIC DETAILS				

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.

N

50 25 0 25 50 100



CONSTRUCTION PAVEMENT MARKING DETAIL (TYPICAL)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023

SEE STAGE IA, IB, AND IC

STA. 23+81 RT. CONSTRUCT TEMPORARY CONNECTION TO EXISTING STORM SEWER

TRAFFIC DRUMS SPACED 20' O.C. TYP.

TRAFFIC DRUMS SPACED 35' O.C. TYP.

P.I. 30+27.21

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

Ⓐ Ⓒ Ⓑ

10' 10' 10' 10'

S 87°02'29.5" E

S 87°02'29.5" E

STA 23+83 IN PLACE
CURB INLET ON RT.
MODIFY D.I. TO
TEMPORARY GRATE INLET

HWY.71B (W. WALNUT STREET)

N. 14TH PLACE

(1) W20-1 (48" × 48")
ROAD WORK AHEAD

100'

8' BARR. TYP. II LT.

(1) G20-2 (48" × 24")
END ROAD WORK

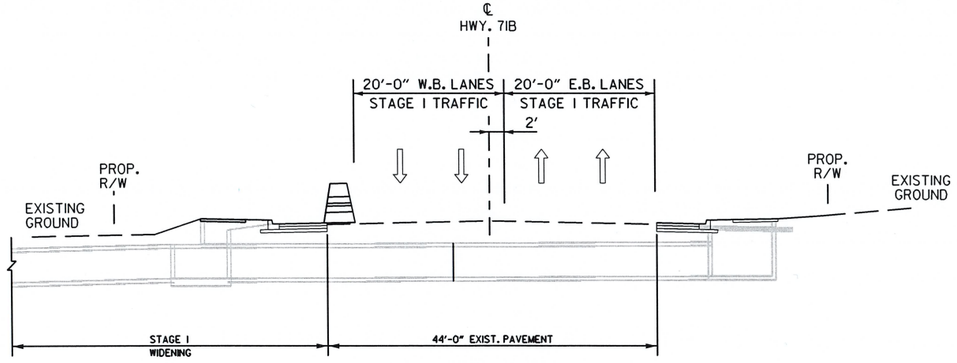
(1) R9-9 (24" × 12")
SIDEWALK CLOSED

(1) G20-2 (48" × 24")
END ROAD WORK

(1) W20-1 (48" × 48")
ROAD WORK AHEAD

S. 15TH STREET

NOTE:
TEMPORARY WIDENING ON RT.
NOT REMOVED UNTIL STAGE 2



STORM SEWER CROSSING HWY. 71B STA. 23+83 STAGING DETAIL

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

T BARRICADE
T SIGN
° TRAFFIC DRUM
TEMPORARY WIDENING

STAGE 1
HWY. 71B (WALNUT STREET)
MAINTENANCE OF TRAFFIC DETAILS

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MODEL: MOT STAGE 1 SHEETS

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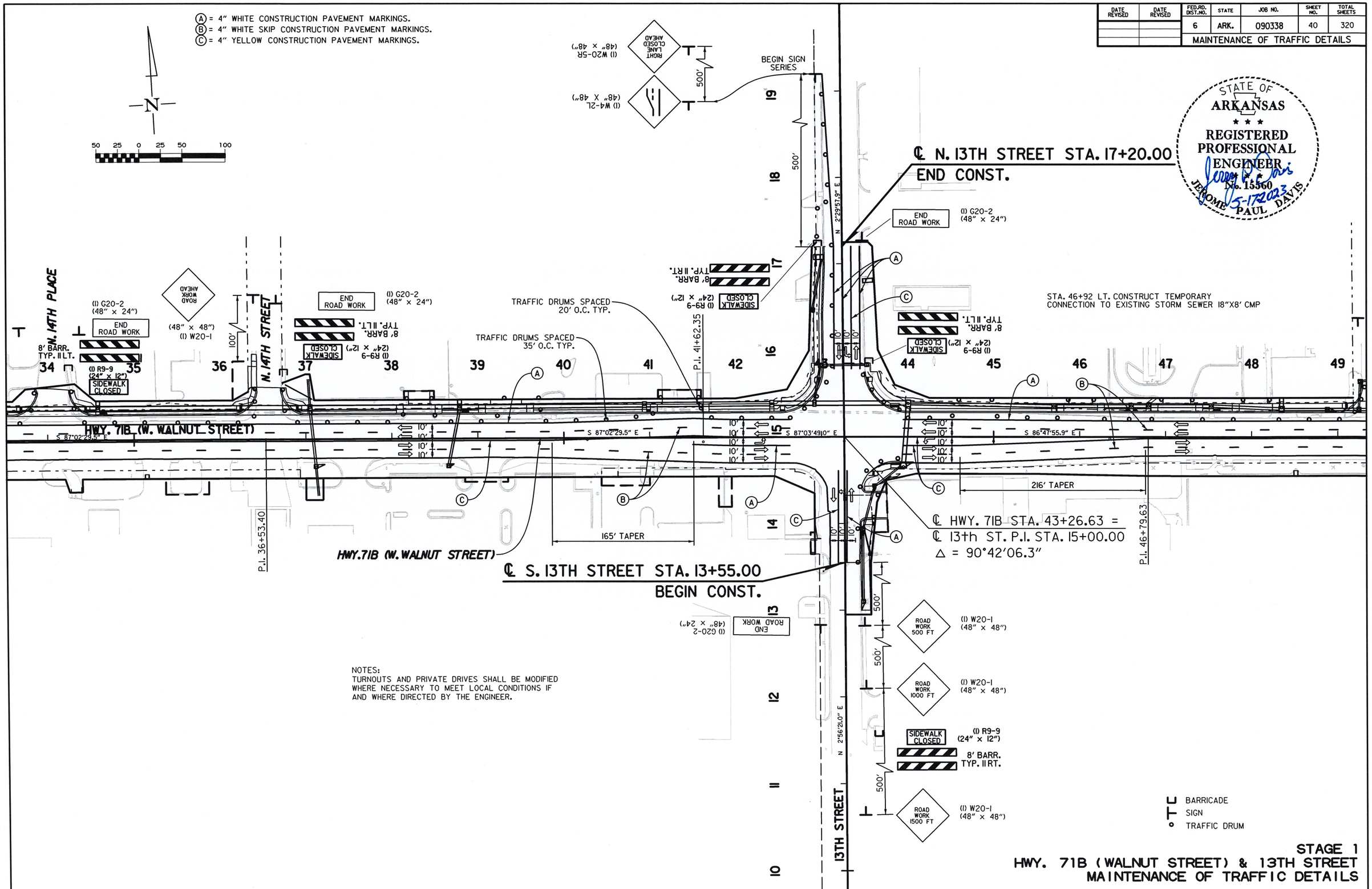
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	40	320
		MAINTENANCE OF TRAFFIC DETAILS				



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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

STAGE 1
HWY. 71B (WALNUT STREET) & 13TH STREET
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
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SCALE: 1:100
MODEL: MOT STAGE 1SHEETS

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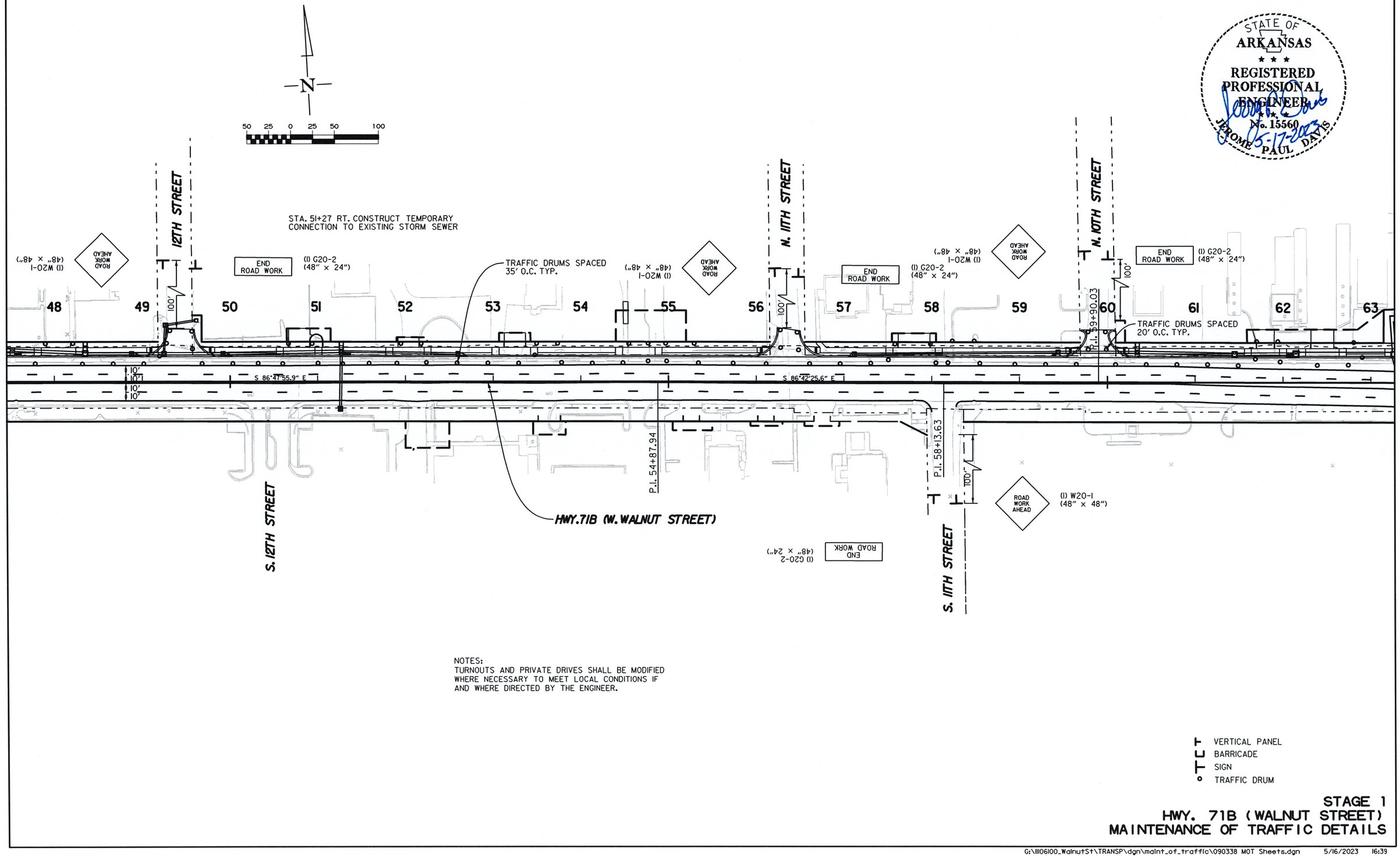
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	41	320
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023



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

T VERTICAL PANEL
⊔ BARRICADE
⊤ SIGN
∘ TRAFFIC DRUM

STAGE 1
HWY. 71B (WALNUT STREET)
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
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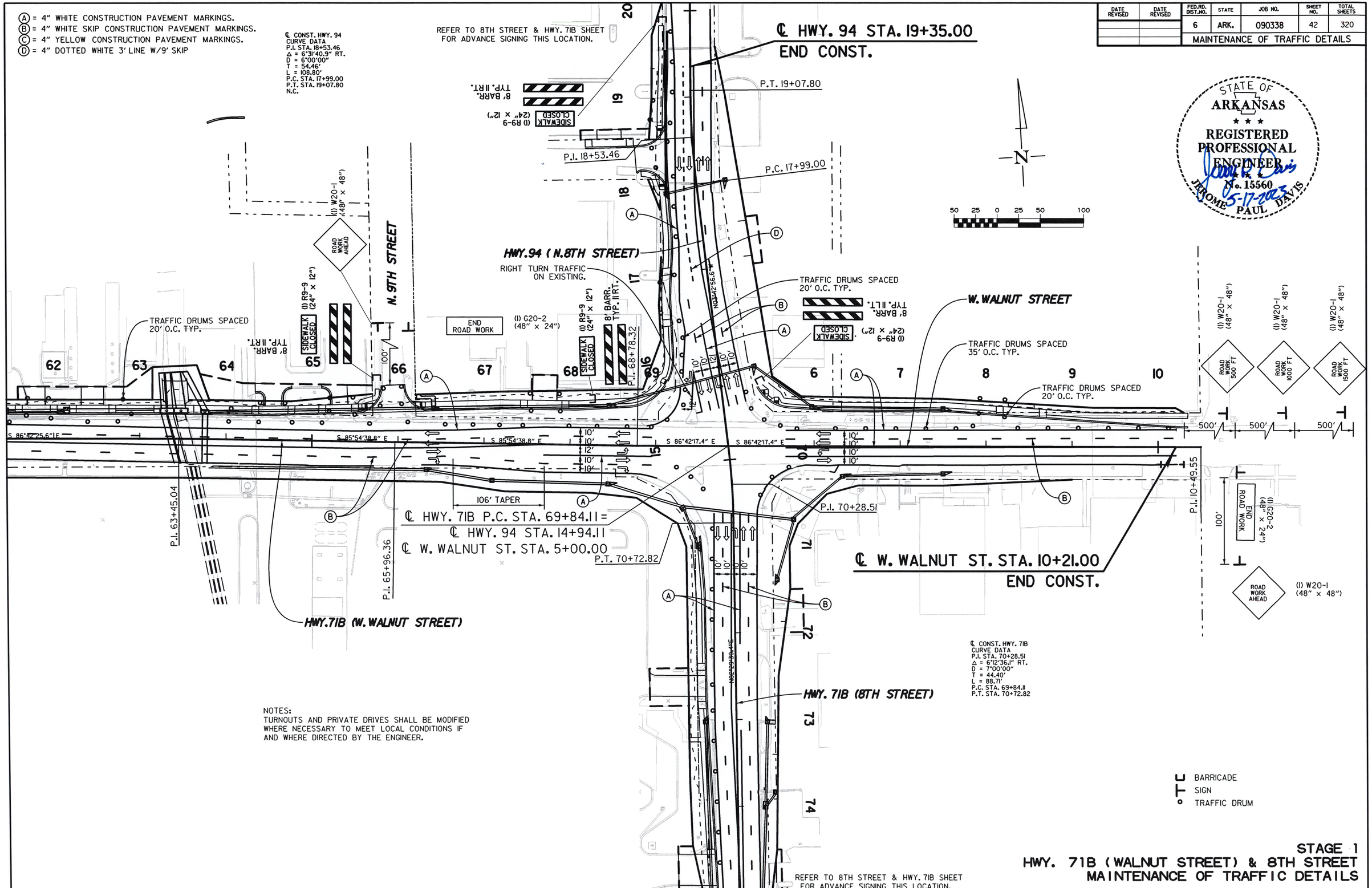
SCALE: 1:100
MODEL: MOT STAGE 1SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	42	320

MAINTENANCE OF TRAFFIC DETAILS



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

REFER TO 8TH STREET & HWY. 71B SHEET FOR ADVANCE SIGNING THIS LOCATION.

STAGE 1
HWY. 71B (WALNUT STREET) & 8TH STREET
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	43	320
		MAINTENANCE OF TRAFFIC DETAILS				

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

HWY. 71B (8TH STREET)

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

℄ DIXIELAND RD. STA. 6+00.00
BEGIN CONST.

TRAFFIC DRUMS SPACED 20' O.C. TYP.

DIXIELAND ROAD

N 03°02'36.2" E
N 01°36'40.6" E
N 02°56'01.4" E
N 02°15'37.1" E
N 01°42'10.4" E
N 02°54'30.0" E

P.I. 5+00.00
P.I. 5+99.94
P.I. 8+10.00
P.I. 11+70.00
P.I. 13+84.70
P.I. 15+00.00

200'
500'
99' TAPER
88' TAPER
160' TAPER

(1) G20-2 (48" × 24") END ROAD WORK
(1) R9-9 (24" × 12") SIDEWALK CLOSED
8' BARR. TYP. IIRT.
8' BARR. TYP. IILT.
(1) W20-1 (48" × 48") ROAD WORK AHEAD
(1) W20-1 (48" × 48") ROAD WORK 500 FT
(1) W20-5L (48" × 48") LEFT LANE CLOSED AHEAD
(1) W4-2R (48" × 48") BEGIN SIGN SERIES

TRAFFIC DRUMS SPACED 35' O.C. TYP.

℄ DIXIELAND RD. STA. 13+80.00
END CONST.

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

BARRICADE
SIGN
TRAFFIC DRUM

STAGE 1
DIXIELAND ROAD & HWY. 71B
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn
PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE 1 SHEETS

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Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 4" DOTTED WHITE 3' LINE W/9' SKIP

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	44	320
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

HWY. 71B (W.WALNUT STREET)

P.I. 65+96.36
TRAFFIC DRUMS SPACED 20' O.C. TYP.

(1) R9-9 (24" × 12") SIDEWALK CLOSED
(1) W20-1 (48" × 48") ROAD WORK AHEAD
(1) G20-2 (48" × 24") END ROAD WORK
106' TAPER
8' BARR. TYP. II RT.
(1) R9-9 (24" × 12") SIDEWALK CLOSED
P.I. 68+78.32
P.I. 18+53.46
(1) R9-9 (24" × 12") SIDEWALK CLOSED
8' BARR. TYP. II RT.
STA. 19+58 END CONSTRUCTION
(1) W20-1 (48" × 48") ROAD WORK 500 FT
(1) W20-1 (48" × 48") ROAD WORK 1000 FT
(1) W20-1 (48" × 48") ROAD WORK 1500 FT
(1) SPECIAL (96" × 48") Job 090338 Start Date Mo Year Est. Completion Mo Year IDRIVEARKANSAS.COM
500' 500' 500' 500'

STA. 75+00.00
END JOB 090338

(1) G20-2 (48" × 24") END ROAD WORK
213' TAPER
TRAFFIC DRUMS SPACED 35' O.C. TYP.
P.T. 70+72.82
HWY. 71B (8TH STREET)
N02°29'39.1"E
S 86°42'17.4" E
N03°42'56.6"W
HWY. 94 (8TH STREET)
N02°48'44.2"E
P.C. 17+99.00
P.T. 19+07.80
(1) G20-2 (48" × 24") END ROAD WORK

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ W. WALNUT ST. STA. 5+00.00

P.I. 70+28.51
(1) R9-9 (24" × 12") SIDEWALK CLOSED
8' BARR. TYP. II LT.

℄ HWY. 94 STA. 19+35.00
END CONST.

℄ CONST. HWY. 71B
CURVE DATA
P.I. STA. 70+28.51
Δ = 6°12'36.1" RT.
D = 7°00'00"
T = 44.40'
L = 88.71'
P.C. STA. 69+84.11
P.T. STA. 70+72.82

℄ CONST. HWY. 94
CURVE DATA
P.I. STA. 18+53.46
Δ = 6°31'40.9" RT.
D = 6°00'00"
T = 54.46'
L = 108.80'
P.C. STA. 17+99.00
P.T. STA. 19+07.80
N.C.

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

W.WALNUT STREET

REFER TO HWY. 71B (WALNUT STREET) & 8TH STREET SHEET FOR ADVANCE SIGNING THIS LOCATION.

⊔ BARRICADE
⊤ SIGN
° TRAFFIC DRUM

STAGE 1
8TH STREET & HWY. 71B
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn
PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE 1SHEETS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	45	320
		MAINTENANCE OF TRAFFIC DETAILS				

STAGE 2:

REMOVE TEMPORARY WIDENING AND CONSTRUCT CURB & GUTTER AND WIDENING STA. 20+71 RT. TO STA. 74+75 RT.

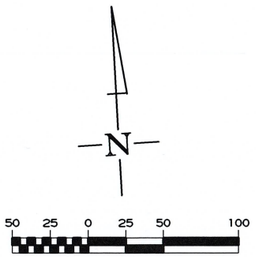
REMOVE CONFLICTING PAVEMENT MARKING & STRIPE STAGE 2 CONSTRUCTION LANES AS SHOWN TO MAINTAIN TRAFFIC.
CONSTRUCT REMAINDER OF STORM SEWER DRAINAGE.
NOTCH AND WIDEN HWY. 71B (W. WALNUT ST.) RT.
NOTCH AND WIDEN WEST SIDE DIXIELAND RD. AT INTERSECTION.
NOTCH AND WIDEN EAST SIDE 13TH ST. NORTH OF INTERSECTION.
NOTCH AND WIDEN WEST SIDE 13TH ST. SOUTH OF INTERSECTION.
NOTCH AND WIDEN EAST SIDE 8TH ST. AT INTERSECTION.
REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURES IN STAGE 2 WORK AREA.
DELINEATE THE WORK ZONE USING TRAFFIC DRUMS AT 35' O.C. ON THE SIDE BEING WIDENED.
DELINEATE CITY STREETS AND DRIVEWAYS THROUGHOUT THE PROJECT USING TRAFFIC DRUMS AT 20' O.C. ON THE SIDE BEING WIDENED.
CONSTRUCT APPROACHES, SIDEWALKS, & LIGHTING IN STAGE 2 WIDENING AREAS.

PLACE FINAL LIFT OF 2" ACHM SURFACE COURSE, PLACE PERMANENT PAVEMENT MARKINGS, CLEANUP AND OPENING COMPLETED ROADWAY TO FULL TWO-WAY TRAFFIC UTILIZING ALL LANES.
CONSTRUCT LANDSCAPE AND IRRIGATION ITEMS.

MAINTENANCE OF TRAFFIC - STAGE 2 QUANTITIES

SIGNS = 728 SQ. FT.
TYPE II BARRICADES RT. = 64 LIN. FT.
TYPE II BARRICADES LT. = 8 LIN. FT.
TRAFFIC DRUMS = 327 EACH
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS = 19,475 LIN. FT.
CONSTRUCTION PAVEMENT MARKINGS = 20,963 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 139 EACH
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) = 70 EACH

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



STAGE 2

STAGE 2
HWY. 71B (WALNUT STREET)
MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn
PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE 2 SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	46	320
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

N

50 25 0 25 50 100

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 12" WHITE CONSTRUCTION PAVEMENT MARKINGS.

270' TAPER

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

HWY. 71B (W. WALNUT STREET)

P.I. 30+27.21

N. 14TH PLACE

(1) G20-2 (48" × 24") END ROAD WORK

(1) W20-1 (48" × 48") ROAD WORK AHEAD

100'

S 87°02'29.5" E

TRAFFIC DRUMS SPACED 20' O.C. TYP.

TRAFFIC DRUMS SPACED 35' O.C. TYP.

SIDEWALK CLOSED (1) R9-9 (24" × 12")

8' BARR. TYP. II RT.

(1) W20-1 (48" × 48") ROAD WORK AHEAD

(1) G20-2 (48" × 24") END ROAD WORK

S. 15TH STREET

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

BARRICADE
SIGN
TRAFFIC DRUM

STAGE 2
HWY. 71B (WALNUT STREET) MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
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PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE 2 SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	47	320
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 12" WHITE CONSTRUCTION PAVEMENT MARKINGS.

N

50 25 0 25 50 100

(1) W20-1 (48" × 48") ROAD WORK 1500 FT
(1) W20-1 (48" × 48") ROAD WORK 1000 FT
(1) W20-1 (48" × 48") ROAD WORK 500 FT

500'
500'
500'

℄ N. 13TH STREET STA. 17+20.00
END CONST.

(1) R9-9 (24" × 12") SIDEWALK CLOSED
8' BARR. TYP. II LT.

END ROAD WORK (1) G20-2 (48" × 24")

N. 14TH PLACE

(1) G20-2 (48" × 24") END ROAD WORK
(1) W20-1 (48" × 48") ROAD WORK AHEAD
100'
N. 14TH STREET
END ROAD WORK (1) G20-2 (48" × 24")

N. 13TH STREET

HWY. 71B (W. WALNUT STREET)

56' TAPER
TRAFFIC DRUMS SPACED 35' O.C. TYP.

℄ HWY. 71B STA. 43+26.63 =
℄ 13TH ST. P.I. STA. 15+00.00
△ = 90°42'06.3"
218' TAPER

(1) W20-1 (48" × 48") ROAD WORK AHEAD

P.I. 41+62.35

34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

S 87°02'29.5" E
S 86°47'55.9" E

TRAFFIC DRUMS SPACED 20' O.C. TYP.
TRAFFIC DRUMS SPACED 35' O.C. TYP.

156' TAPER

P.I. 36+53.40
P.I. 46+79.63

℄ S. 13TH STREET STA. 13+55.00
BEGIN CONST.

STA. 13+55.00
BEGIN CONSTRUCTION

HWY. 71B (W. WALNUT STREET)

(1) G20-2 (48" × 24") END ROAD WORK
S. 13TH STREET

500'
ROAD WORK 500 FT (1) W20-1 (48" × 48")
500'
ROAD WORK 1000 FT (1) W20-1 (48" × 48")
SIDEWALK CLOSED (1) R9-9 (24" × 12")
8' BARR. TYP. II RT.
500'
ROAD WORK 1500 FT (1) W20-1 (48" × 48")

19 18 17 16 15 14 13 12 11 10

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

BARRICADE
SIGN
TRAFFIC DRUM

STAGE 2
HWY. 71B (WALNUT STREET) & 13TH STREET
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn
PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE 2 SHEETS

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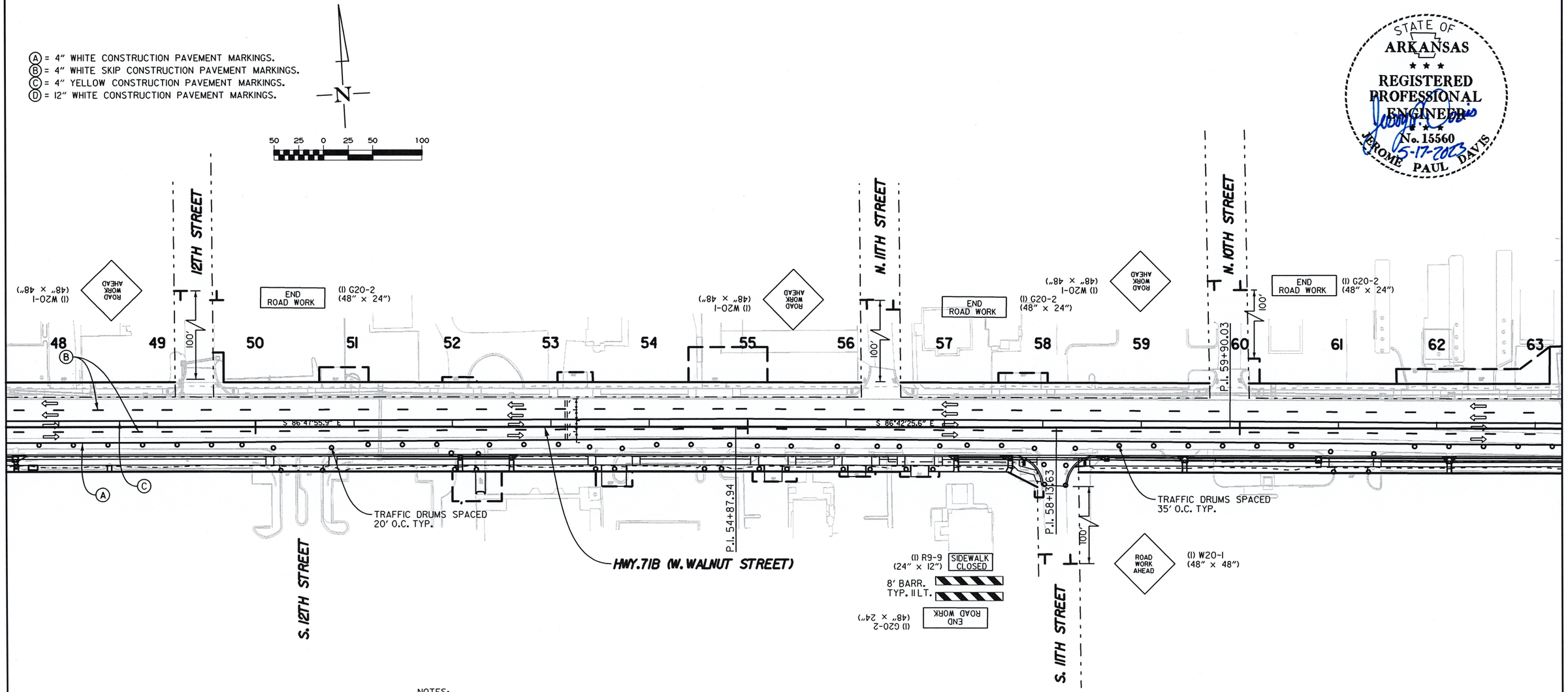
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	48	320
		MAINTENANCE OF TRAFFIC DETAILS				

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 12" WHITE CONSTRUCTION PAVEMENT MARKINGS.

N

50 25 0 25 50 100

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023



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

BARRICADE
SIGN
TRAFFIC DRUM

STAGE 2
HWY. 71B (WALNUT STREET) MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
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PLOTTED: 5/16/2023 16:39
SCALE: 1:100
MODEL: MOT STAGE 2 SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	49	320
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

REFER TO 8TH STREET & HWY. 71B SHEET FOR ADVANCE SIGNING THIS LOCATION.

SIDEWALK CLOSED (1) R9-9 (24" × 12")

8' BARR. TYP. II RT.

℄ HWY. 94 STA. 19+35.00
END CONST.

℄ CONST. HWY. 94
CURVE DATA
P.I. STA. 18+53.46
Δ = 6°31'40.9" RT.
D = 6°00'00"
T = 54.46'
L = 108.80'
P.C. STA. 17+99.00
P.T. STA. 19+07.80
N.C.

P.T. 19+07.80

P.I. 18+53.46

P.C. 17+99.00

HWY.94 (8TH STREET)

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 12" WHITE CONSTRUCTION PAVEMENT MARKINGS.

(1) W20-1 (48" × 48")
ROAD WORK AHEAD

HWY.71B (W. WALNUT STREET)

N. 9TH STREET

N03°42'56.6"W

END ROAD WORK
(1) G20-2 (48" × 24")

270' TAPER

100'

P.I. 68+78.32

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ HWY. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

266' TAPER

W. WALNUT STREET

(1) W20-1 (48" × 48")
ROAD WORK 500 FT

(1) W20-1 (48" × 48")
ROAD WORK 1000 FT

(1) W20-1 (48" × 48")
ROAD WORK 1500 FT

500' 500' 500'

S 85°54'38.8" E

S 85°54'38.8" E

S 86°42'17.4" E

S 86°42'17.4" E

P.I. 63+45.04

TRAFFIC DRUMS SPACED 20' O.C. TYP.

P.I. 65+96.36

P.T. 70+72.82

P.I. 70+28.51

TRAFFIC DRUMS SPACED 35' O.C. TYP.

P.I. 10+49.55

100'

(1) G20-2 (48" × 24")
END ROAD WORK

℄ W. WALNUT ST. STA. 10+21.00
END CONST.

(1) G20-2 (48" × 24")
END ROAD WORK

(1) W20-1 (48" × 48")
ROAD WORK AHEAD

℄ CONST. HWY. 71B
CURVE DATA
P.I. STA. 70+28.51
Δ = 6°12'36.1" RT.
D = 7°00'00"
T = 44.40'
L = 88.71'
P.C. STA. 69+84.11
P.T. STA. 70+72.82

N02°29'39.4"E

HWY.71B (8TH STREET)

225' TAPER

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

REFER TO 8TH STREET & HWY. 71B SHEET FOR ADVANCE SIGNING THIS LOCATION.

BARRICADE
SIGN
TRAFFIC DRUM

STAGE 2
HWY. 71B (WALNUT STREET) & 8TH STREET
MAINTENANCE OF TRAFFIC DETAILS

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SCALE: 1:100
MODEL: MOT STAGE 2 SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	50	320
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

50 25 0 25 50 100

Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 12" WHITE CONSTRUCTION PAVEMENT MARKINGS.

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
Δ = 90°41'53.4"

℄ DIXIELAND RD. STA. 6+00.00
BEGIN CONST.

(1) C20-2 (48" × 24")
END ROAD WORK

P.I. 5+93.94

P.I. 8+10.00

P.I. 11+70.00

P.I. 13+84.70
BEGIN WORK AREA
JOB 090338

(1) W20-1 (48" × 48")
ROAD WORK 500 FT

(1) W20-1 (48" × 48")
ROAD WORK 1000 FT

(1) W20-1 (48" × 48")
ROAD WORK 1500 FT

500′ 500′ 500′

TRAFFIC DRUMS SPACED
20′ O.C. TYP.

236′ TAPER

HWY.71B (W.WALNUT)

S 87°50'54.0" E

N 03°02'36.2" E
N 01°36'40.6" E
N 02°56'01.4" E
N 02°15'37.1" E
N 01°42'10.4" E
N 02°54'30.0" E

DIXIELAND ROAD

P.I. 5+00.00

500′ 500′ 500′

(1) W20-1 (48" × 48")
ROAD WORK 1500 FT

(1) W20-1 (48" × 48")
ROAD WORK 1000 FT

(1) W20-1 (48" × 48")
ROAD WORK 500 FT

211′ TAPER

211′ TAPER

DIXIELAND ROAD

P.I. 15+00.00
(1) C20-2 (48" × 24")
END ROAD WORK

TRAFFIC DRUMS SPACED
35′ O.C. TYP.

S 87°02'29.5" E

196′ TAPER

HWY.71B (W.WALNUT)

℄ DIXIELAND RD. STA. 13+80.00
END CONST.

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

BARRICADE
SIGN
TRAFFIC DRUM

STAGE 2
DIXIELAND ROAD & HWY. 71B
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
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SCALE: 1:100
MODEL: MOT STAGE 2 SHEETS

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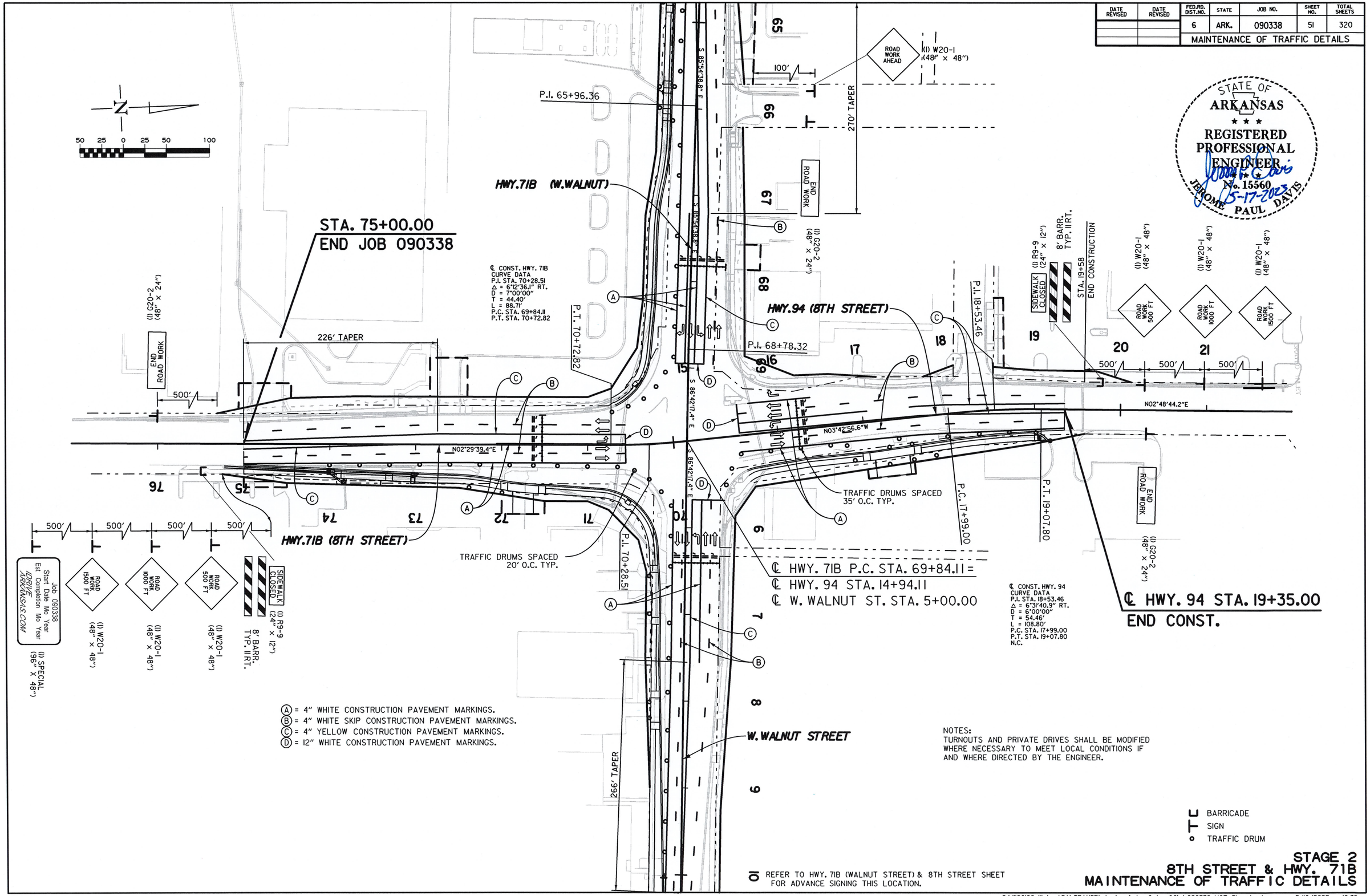
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	51	320
		MAINTENANCE OF TRAFFIC DETAILS				



Ⓐ = 4" WHITE CONSTRUCTION PAVEMENT MARKINGS.
Ⓑ = 4" WHITE SKIP CONSTRUCTION PAVEMENT MARKINGS.
Ⓒ = 4" YELLOW CONSTRUCTION PAVEMENT MARKINGS.
Ⓓ = 12" WHITE CONSTRUCTION PAVEMENT MARKINGS.

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

BARRICADE
SIGN
TRAFFIC DRUM

REFER TO HWY. 71B (WALNUT STREET) & 8TH STREET SHEET FOR ADVANCE SIGNING THIS LOCATION.

STAGE 2
8TH STREET & HWY. 71B
MAINTENANCE OF TRAFFIC DETAILS

USER: JJ5206
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\maint_of_traffic\090338 MOT Sheets.dgn
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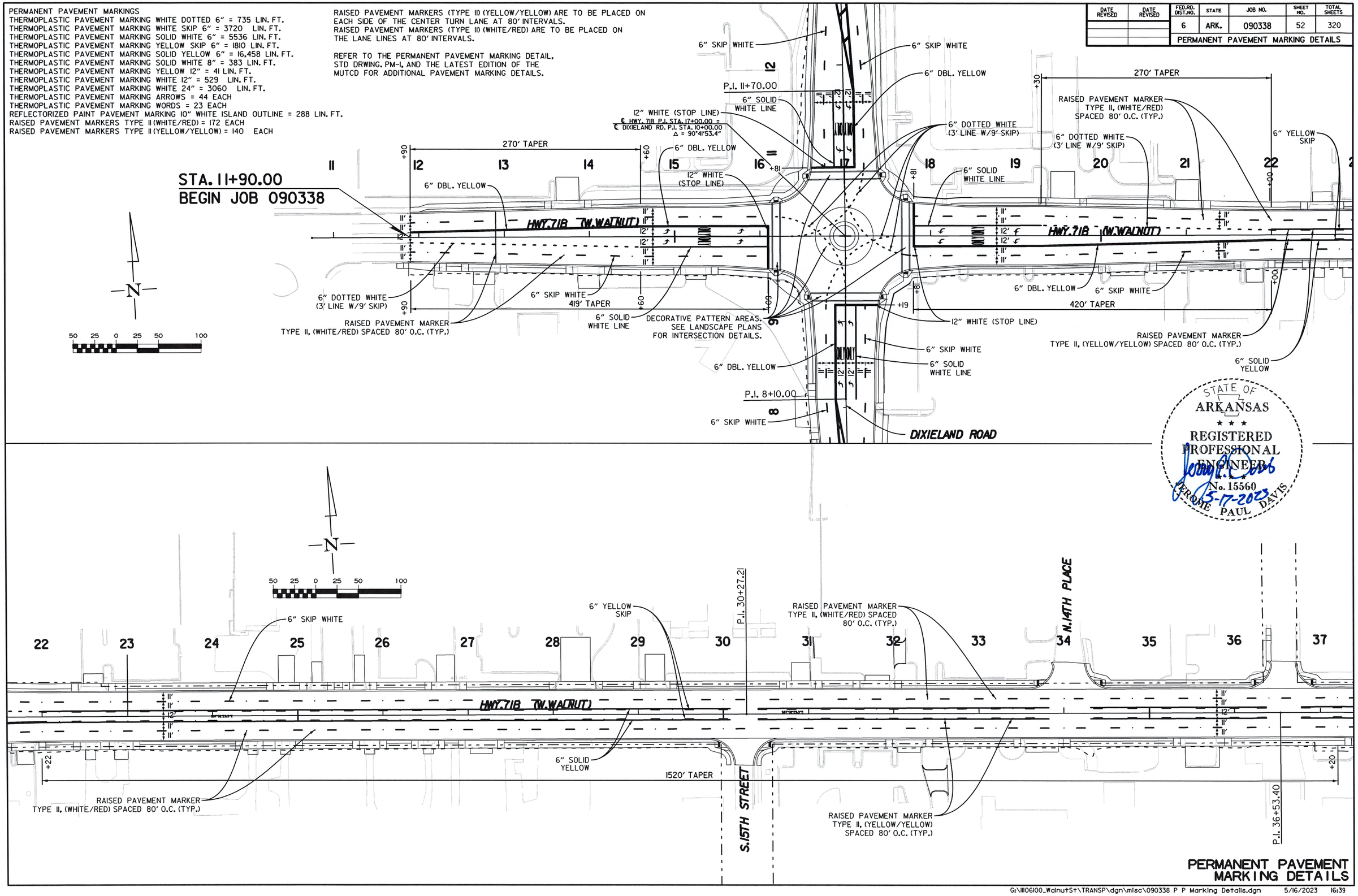
PERMANENT PAVEMENT MARKINGS
THERMOPLASTIC PAVEMENT MARKING WHITE DOTTED 6" = 735 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING WHITE SKIP 6" = 3720 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING SOLID WHITE 6" = 5536 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING YELLOW SKIP 6" = 1810 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING SOLID YELLOW 6" = 16,458 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING SOLID WHITE 8" = 383 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING YELLOW 12" = 41 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING WHITE 12" = 529 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING WHITE 24" = 3060 LIN. FT.
THERMOPLASTIC PAVEMENT MARKING ARROWS = 44 EACH
THERMOPLASTIC PAVEMENT MARKING WORDS = 23 EACH
REFLECTORIZED PAINT PAVEMENT MARKING 10" WHITE ISLAND OUTLINE = 288 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 172 EACH
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW) = 140 EACH

RAISED PAVEMENT MARKERS (TYPE II) (YELLOW/YELLOW) ARE TO BE PLACED ON EACH SIDE OF THE CENTER TURN LANE AT 80' INTERVALS.
RAISED PAVEMENT MARKERS (TYPE II) (WHITE/RED) ARE TO BE PLACED ON THE LANE LINES AT 80' INTERVALS.

REFER TO THE PERMANENT PAVEMENT MARKING DETAIL, STD DRWING. PM-I, AND THE LATEST EDITION OF THE MUTCD FOR ADDITIONAL PAVEMENT MARKING DETAILS.

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	52	320
		PERMANENT PAVEMENT MARKING DETAILS				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

PERMANENT PAVEMENT MARKING DETAILS

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MODEL: PERMANENT PAVEMENT MARKING DETAILS
SCALE: 1:100

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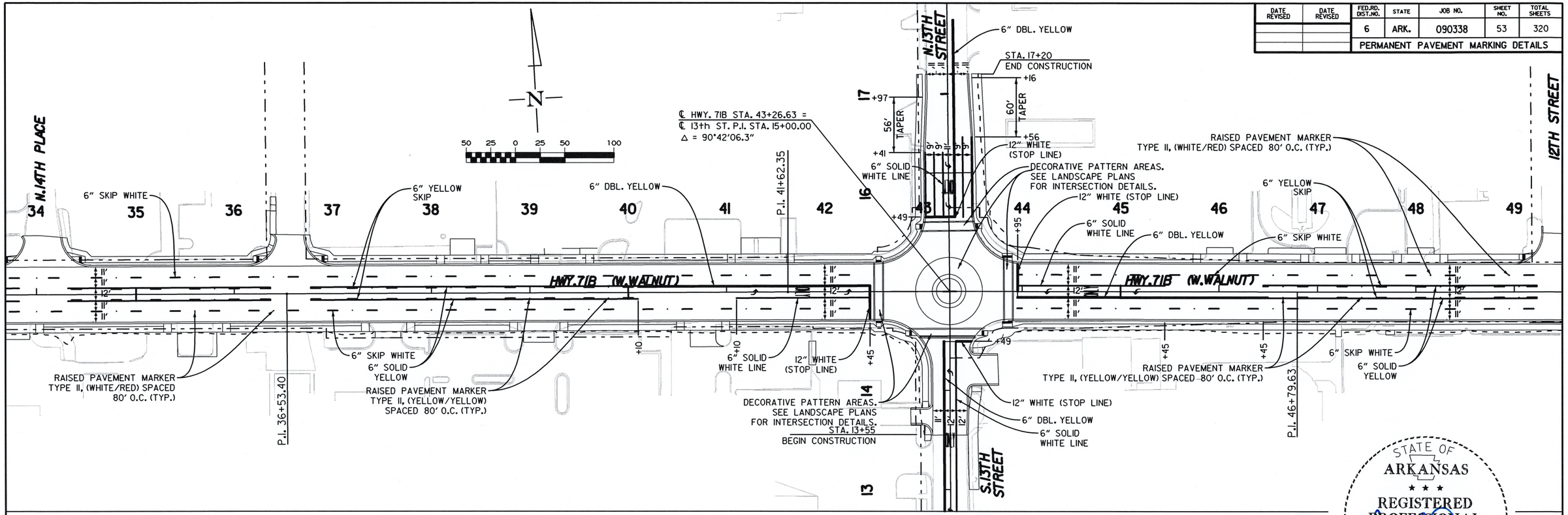
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	53	320
		PERMANENT PAVEMENT MARKING DETAILS				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

PERMANENT PAVEMENT MARKING DETAILS

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MODEL: PERMANENT PAVEMENT MARKING DETAILS

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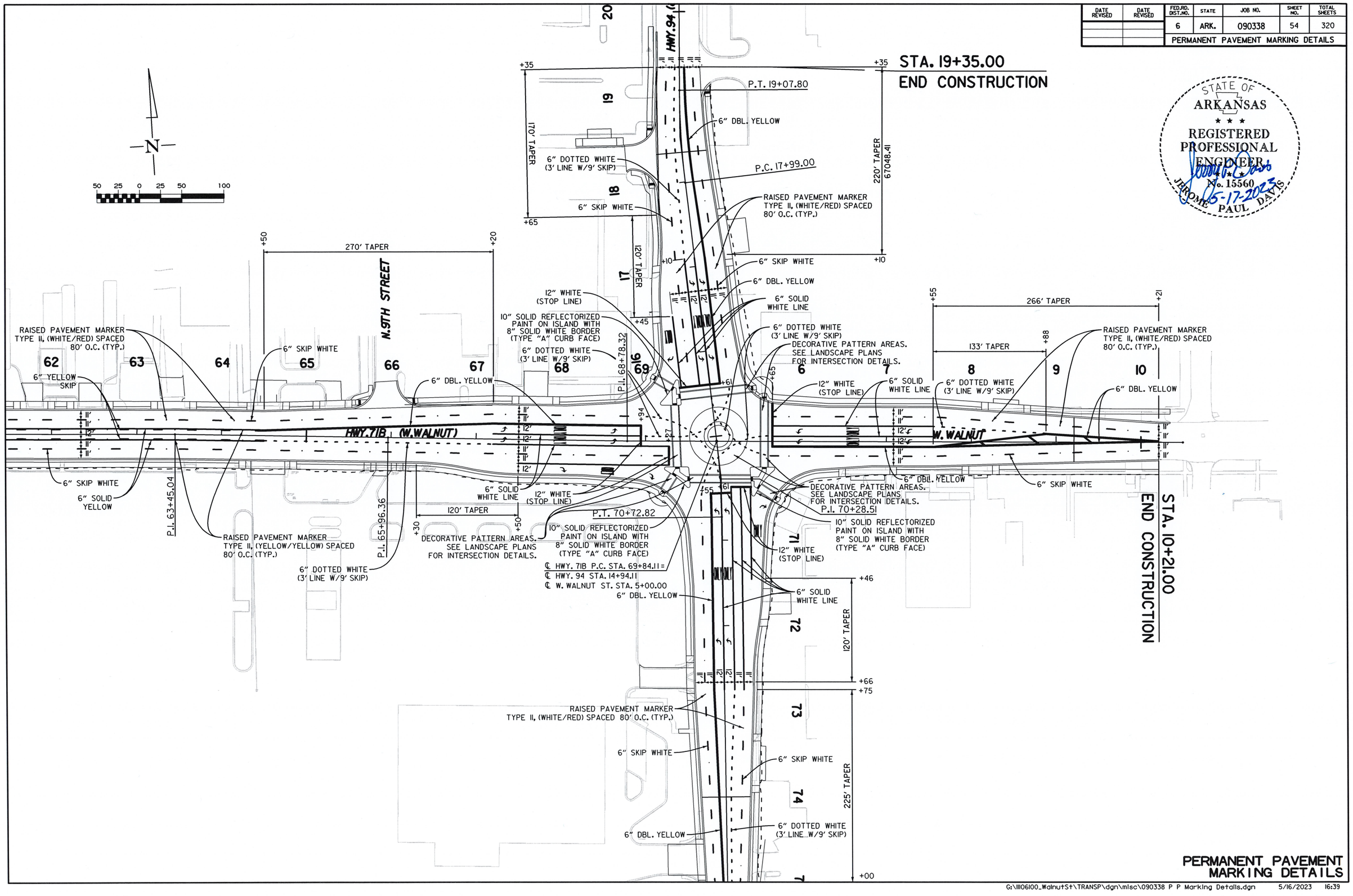
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	54	320
		PERMANENT PAVEMENT MARKING DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

STA. 19+35.00
END CONSTRUCTION



PERMANENT PAVEMENT MARKING DETAILS

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SCALE: 1:100
MODEL: PERMANENT PAVEMENT MARKING DETAILS

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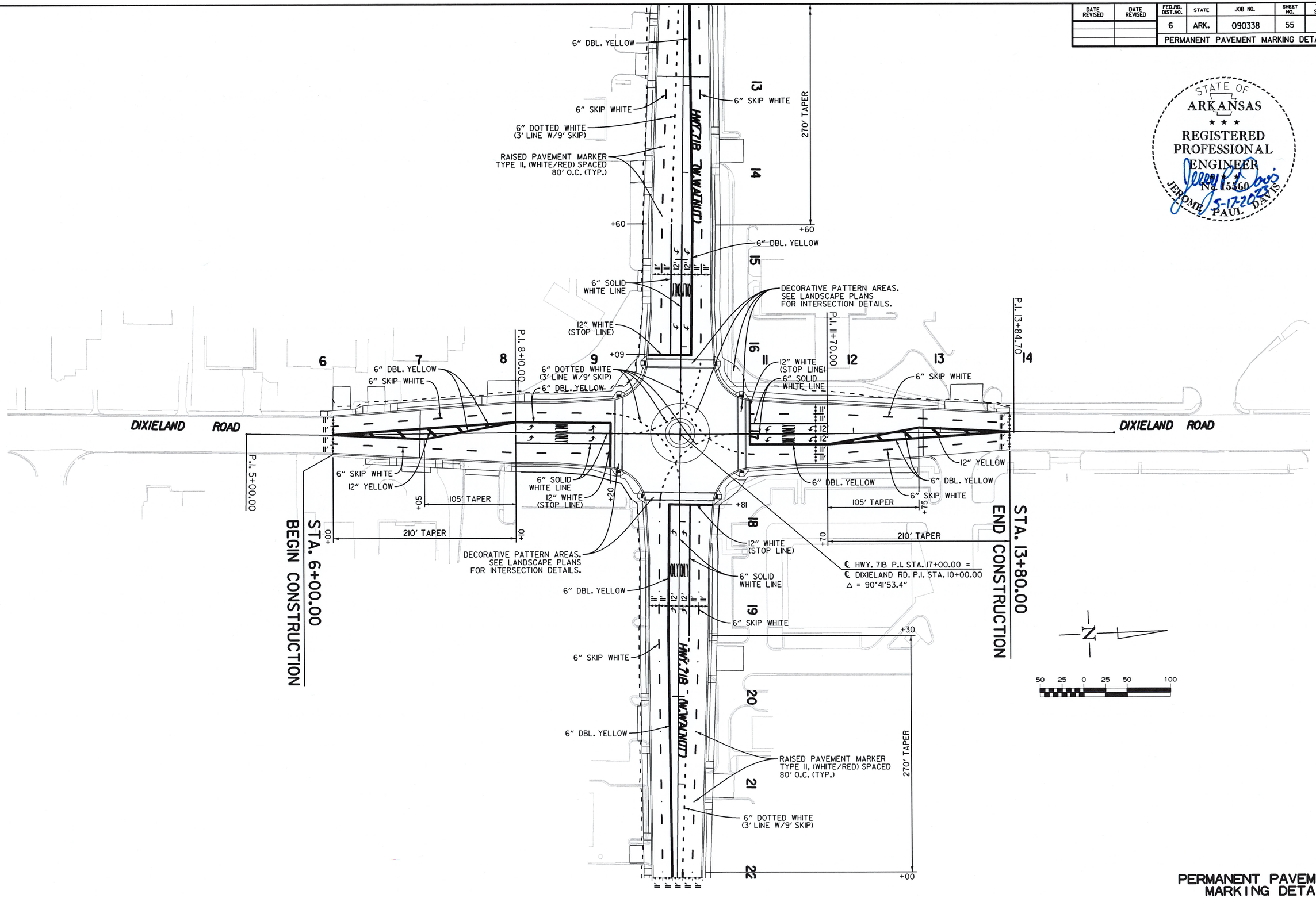
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	55	320
		PERMANENT PAVEMENT MARKING DETAILS				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

PERMANENT PAVEMENT MARKING DETAILS

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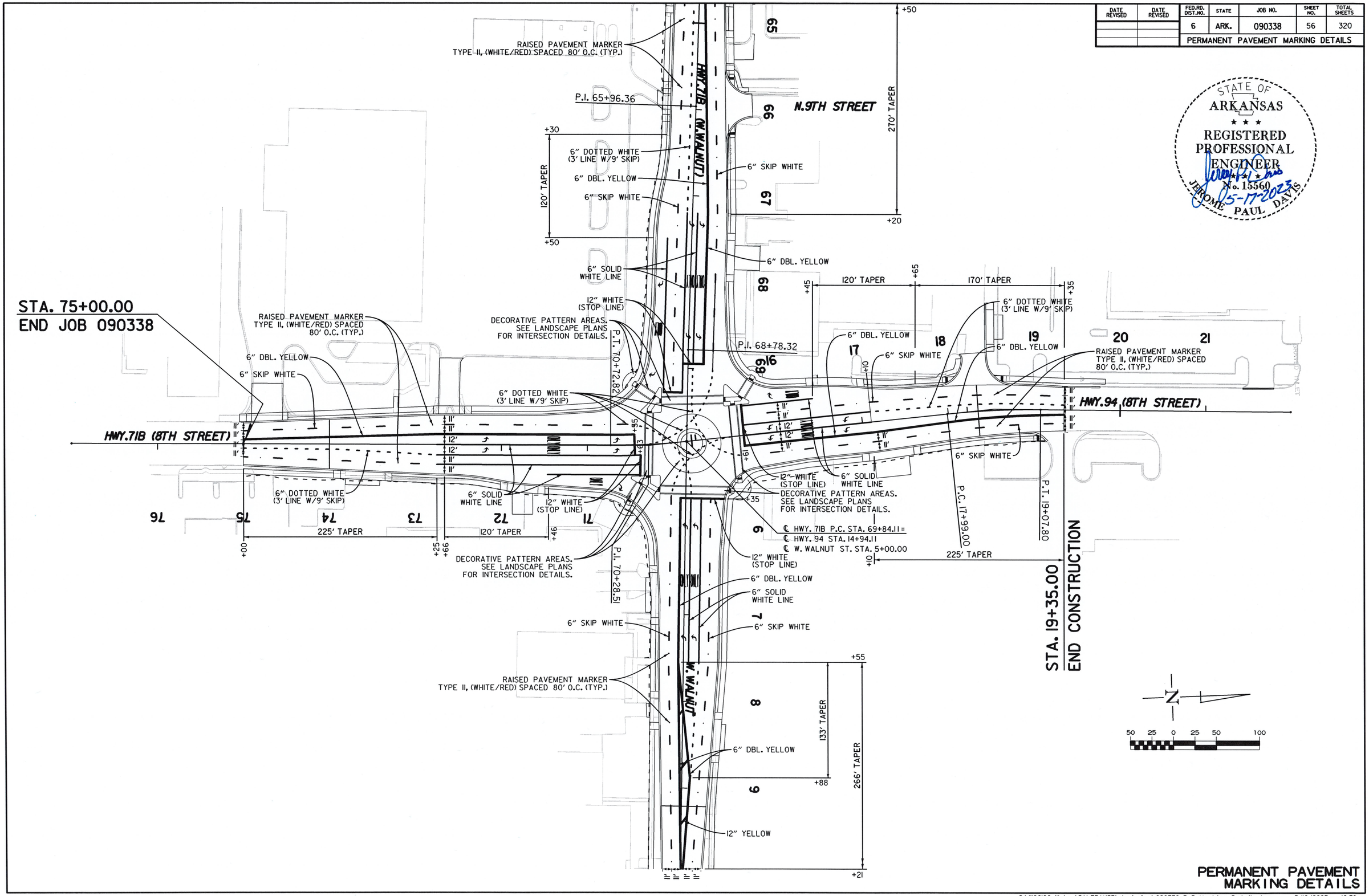
PLOTTED: 5/17/2023 13:13 SCALE: 1:100 MODEL: PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	56	320
		PERMANENT PAVEMENT MARKING DETAILS				



PERMANENT PAVEMENT MARKING DETAILS

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USER: JJ5206
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PLOTTED: 5/16/2023 16:39 SCALE: 1:100 MODEL: PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-04-2023		6	ARK.	090338	57	320
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-5-2023

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1A	STAGE 1B	STAGE 1C	STAGE 1	STAGE 2	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		VERTICAL PANELS	TRAFFIC DRUMS	BARRICADES RIGHT	BARRICADES LEFT	RELOCATING PRECAST CONCRETE BARRIER	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE
			LIN. FT. - EACH						NO.	SQ. FT.	EACH			LIN. FT.		EACH
W20-1	ROAD WORK 1500 FT.	48"x48"	2	2	2	6	6	6	6	96.0						
W20-1	ROAD WORK 1000 FT.	48"x48"	2	2	2	6	6	6	6	96.0						
W20-1	ROAD WORK 500 FT.	48"x48"	2	2	2	7	7	7	7	112.0						
W20-1	ROAD WORK AHEAD	48"x48"	1	1	1	9	9	9	9	144.0						
G20-2	END ROAD WORK	48"x24"	3	3	3	16	16	16	16	128.0						
W13-1	SPEED LIMIT (ADVISORY)	24"X24"		2	2			2	2	8.0						
W24-1aL	LEFT DOUBLE REVERSE CURVE	48"x48"		1	1			1	1	16.0						
W24-1aR	RIGHT DOUBLE REVERSE CURVE	48"x48"		1	1			1	1	16.0						
W4-2L	MERGE LEFT	48"x48"							1	16.0						
W4-2R	MERGE RIGHT	48"x48"				1		1	1	16.0						
W20-5L	LEFT LANE CLOSED AHEAD	48"x48"				1		1	1	16.0						
W20-5R	RIGHT LANE CLOSED AHEAD	48"x48"				1		1	1	16.0						
R9-9	SIDEWALK CLOSED	24"x12"				14	13	14	14	28.0						
OM-3L	OBJECT MARKER	12"x36"		3	3			3	3	9.0						
OM-3R	OBJECT MARKER	12"x36"		4	4			4	4	12.0						
SPECIAL	CONSTRUCTION PROJECT INFORMATION SIGN	96"X48"				3	3	3	3	96.0						
SPECIAL	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE					10	10	10								10
	BARRICADES TYPE II RT. (8')					10	8	10					80			
	BARRICADES TYPE II LT. (8')					10	1	10						80		
	VERTICAL PANELS					150	150	150			150					
	TRAFFIC DRUMS		36	73	83	400	327	400				400				
	RELOCATING PRECAST CONCRETE BARRIER			186	186			372							372	
TOTALS:										**825.0**	**150**	**400**	**80**	**80**	**372**	**10**

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.
THE QUANTITY OF VERTICAL PANELS PROVIDED IN THE CONTRACT IS FOR ONE SIDE OF THE ROADWAY FOR 1 MILE. THIS IS THE MAXIMUM QUANTITY REQUIRED TO ALLOW THE CONTRACTOR TO NOTCH 1/2 MILE, BACKFILL TO A POINT WHERE THE VERTICAL DIFFERENTIAL IS 4" OR LESS, AND THEN NOTCH ANOTHER 1/2 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 1A	STAGE 1B	STAGE 1C	STAGE 1	STAGE 2	END OF JOB	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	REMOVAL OF PERMANENT PAVEMENT MARKINGS	REMOVAL OF PERMANENT PAVEMENT MARKINGS (WORDS)	REMOVAL OF PERMANENT PAVEMENT MARKINGS (ARROWS)	CONSTRUCTION PAVEMENT MARKINGS	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)	RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)	THERMOPLASTIC PAVEMENT MARKINGS 6" WHITE	6" YELLOW	8" WHITE	12" WHITE	12" YELLOW	WORDS	ARROWS	REFLECTORIZED PAINT PAVEMENT MARKINGS 10" WHITE
	LIN. FT. - EACH						LIN. FT.		EACH		LIN. FT.	LIN. FT.	EACH		LIN. FT.					EACH	EACH	LIN. FT.
CONSTRUCTION PAVEMENT MARKINGS				19475	20963						40438											
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	4980	4992	4980									14952										
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS					19475		19475															
REMOVAL OF PERMANENT PAVEMENT MARKINGS	4980			17610				22590														
REMOVAL OF PERMANENT PAVEMENT MARKINGS WORDS				14					14													
REMOVAL OF PERMANENT PAVEMENT MARKINGS ARROWS				18						18												
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)				139	139	172							450									
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)	10	10	10	70	70	140								310								
THERMOPLASTIC PAVEMENT MARKINGS WHITE (6")						9991									9991							
THERMOPLASTIC PAVEMENT MARKINGS YELLOW (6")						18268										18268						
THERMOPLASTIC PAVEMENT MARKINGS WHITE (8")						383											383					
THERMOPLASTIC PAVEMENT MARKINGS WHITE (12")						529												529				
THERMOPLASTIC PAVEMENT MARKINGS YELLOW (12")						41													41			
THERMOPLASTIC PAVEMENT MARKINGS WORDS						23														23		
THERMOPLASTIC PAVEMENT MARKINGS ARROWS						44															44	
REFLECTORIZED PAINT PAVEMENT MARKINGS WHITE (10")						288																288
TOTALS:							**19475**	**22590**	**14**	**18**	**40438**	**14952**	**450**	**310**	**9991**	**18268**	**383**	**529**	**41**	**23**	**44**	**288**

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.

SOIL LOG

STATION	LOCATION	DEPTH FEET	LIQUID LIMIT	PLASTICITY INDEX	AASHTO CLASSIFICATION	COLOR
12+00	WB	2.5-5.0	36	21	A-6	RD, RD/TN &TN
15+50	EB	1.1-4.0	37	20	A-6	BR & GR
20+00	WB	1.1-3.5	37	23	A-6	BR & RB
24+00	EB	0.9-4.5	33	16	A-6	BR,GR & RD
32+00	EB	1.0-4.5	35	19	A-6	GR & BR
36+00	WB	1.1-3.0	33	19	A-6	RB
52+25	WB	2.5-10.0	37	20	A-2-6	RB, RD,TN & RT
60+75	WB	2.0-10.0	30	14	A-2-6	RD & RT

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THIS 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 RESPOSIBLE FOR VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATIONS.

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING STATION	GRUBBING STATION
20+00	31+00	HWY. 71B	11	11
34+90	35+60	HWY. 71B	1	1
46+00	53+10	HWY. 71B	7	7
54+75	55+50	HWY. 71B	1	1
59+75	67+00	HWY. 71B	7	7
TOTALS:			**27**	**27**

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	58	320
		QUANTITIES				

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS

STATION	DESCRIPTION	PIPE CULVERTS	BOX CULVERTS	JUNCTION BOXES	DROP INLETS
		EACH			
13+15	CURB INLET W/8' EXT. AND 18" X 179' R.C. PIPE RT. SIDE	1			1
13+16	CURB INLET W/8' EXT. LT. AND 18" X 63' R.C. CROSS PIPE	1			1
14+74	CURB INLET W/8' EXT. AND 18" X 158' R.C. PIPE RT. SIDE	1			1
7+34	D.I. AND 18" X 186' R.C. PIPE RT. SIDE DIXIELAND RD.	1			1
9+21	D.I. AND 18" X 34' R.C. PIPE RT. SIDE DIXIELAND RD.	1			1
9+41	24" X 18' C.M. PIPE RT. SIDE DIXIELAND RD.	1			
11+98	24" X 102' R.C. PIPE RT. SIDE DIXIELAND RD.	1			
12+50	JUNC. AND 42" X 4' R.C. PIPE RT. SIDE DIXIELAND RD.				1
17+23	CURB INLET AND 24" X 82' R.C. PIPE LT. SIDE	1			1
17+43	CURB INLET W/8' EXT. AND 24" X 18' R.C. PIPE RT. SIDE	1			1
19+97	CURB INLET AND 18" X 30' R.C. PIPE RT. SIDE	1			1
20+30	CURB INLET AND 18" X 64' R.C. PIPE RT. SIDE	1			1
20+29	CURB INLET AND 18" X 93' R.C. PIPE LT. SIDE	1			1
21+15	GRATE INLET AND 18" X 22' R.C. PIPE RT. SIDE	1			1
23+84	CURB INLET AND 24" X 48' R.C. PIPE RT. SIDE	1			1
23+84	CURB INLET AND 5' X 3' X 49' R.C. BOX LT. SIDE		1		1
23+69	CURB INLET AND 5' X 3' X 259' R.C. BOX LT. SIDE		1		1
26+40	CURB INLET RT. SIDE				1
26+41	CURB INLET AND 5' X 3' X 257' R.C. BOX LT. SIDE		1		1
28+81	CURB INLET RT. SIDE				1
28+81	CURB INLET AND 5' X 3' X 240' R.C. BOX LT. SIDE		1		1
30+60	CURB INLET AND 5' X 3' X 179' R.C. BOX LT. SIDE		1		1
30+61	CURB INLET AND 24" X 32' R.C. RT. SIDE	1			1
34+21	CURB INLET AND 36" X 8' AND 18" X 271' R.C. PIPE RT. SIDE	2			1
34+24	GRATE INLET LT. SIDE AND 5' X 3' X 359' R.C. BOX LT. SIDE		1		1
36+93	CURB INLET & 24" X 264' R.C. PIPE & 18" X 44' C. M. PIPE LT. SIDE	2			1
36+94	CURB INLET AND 18" X 45' R.C. PIPE RT. SIDE	1			1
39+88	D.I. AND 24" X 296' R.C. PIPE LT. SIDE	1			1
40+50	D.I. AND 24" X 61' R.C. PIPE LT. SIDE	1			1
40+88	GRATE INLET RT. SIDE				1
41+17	GRATE INLET AND 12" X 65' R.C. PIPE LT. SIDE	1			1
41+08	CURB INLET AND 12" X 181' AND 12" X 26' R.C. PIPE RT. SIDE	2			1
42+81	JUNCTION BOX AND 24" X 7' R.C. PIPE LT. SIDE	1		1	
42+84	DROP INLET LT. SIDE				1
42+90	CURB INLET RT. SIDE				1
43+01	JUNCTION BOX RT. SIDE			1	
43+50	JUNCTION BOX RT. SIDE			1	
43+50	DROP INLET LT. SIDE				1
43+57	CURB INLET RT. SIDE				1
43+65	CURB INLET LT. SIDE AND 24" X 90' R.C. PIPE CULVERT	1			1
45+78	CURB INLET AND 12" X 81' R.C. PIPE RT. SIDE	1			1
46+60	CURB INLET AND 18" X 90' R.C. PIPE LT. SIDE	1			1
46+61	CURB INLET AND 12" X 94' R.C. PIPE RT. SIDE	1			1
47+54	CURB INLET AND 18" X 371' R.C. PIPE LT. SIDE	1			1
47+57	CURB INLET AND 18" X 14' R.C. PIPE RT. SIDE	1			1
51+27	CURB INLET RT. AND 18" X 45' R.C. CROSS PIPE	1			1
51+29	GRATE INLET AND 18" X 45' R.C. PIPE LT. SIDE	1			1
56+97	GRATE INLET & 24" X 40" X 77' C.M. ARCH PIPE RT. SIDE	1			1
57+75	GRATE INLET AND 18" X 11' C.M. PIPE RT. SIDE	1			1
57+80	CURB INLET AND 18" X 66' R.C PIPE RT. SIDE	1			1
58+48	CURB INLET AND 18" X 118' R.C. PIPE RT. SIDE	1			1
59+59	CURB INLET AND 18" X 63' R.C. PIPE LT. SIDE	1			1
59+70	CURB INLET AND 18" X 382' R.C. PIPE RT. SIDE	1			1
60+23	CURB INLET AND 18" X 187' R.C. PIPE LT. SIDE	1			1
62+13	CURB INLET AND 18" X 4' R.C. PIPE RT. SIDE	1			1
62+13	CURB INLET AND 18" X 127' R.C. PIPE LT. SIDE	1			1
63+47	DROP INLET LT. SIDE				1
63+60	DROP INLET LT. SIDE				1
63+61	DROP INLET RT. SIDE				1
73+02	CURB INLET AND 18" X 393' R.C. PIPE RT. SIDE	1			1
73+03	GRATE INLET AND 18" X 16' R.C. PIPE LT. SIDE	1			1
73+03	CURB INLET AND 18" X 80' R.C. PIPE LT. SIDE	1			1
73+84	18" X 18' R.C. PIPE LT. SIDE	1			
73+84	CURB INLET AND 18" X 136' R.C. PIPE LT. SIDE	1			1
17+97	CURB INLET AND 18" X 15' R.C. PIPE RT. SIDE 8TH ST.	1			1
18+04	CURB INLET AND 18" X 153' R.C. PIPE LT. SIDE 8TH ST.	1			1
TOTALS:		50	6	3	60

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

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	LOCATION	WIDTH	LENGTH	TON
		FEET		
13+15	HWY. 71B	7.92	55	35
18+10	HWY. 71B	9.67	58	45
19+86	HWY. 71B	7.92	48	30
23+83	HWY. 71B	13.00	48	50
37+08	HWY. 71B	8.50	44	30
38+72	HWY. 71B	8.50	45	30
43+98	HWY. 71B	10.83	59	51
51+27	HWY. 71B	8.50	59	40
63+39	HWY. 71B	18.75	49	73
63+75	HWY. 71B	12.33	50	49
70+61	HWY. 71B	8.50	72	49
7+36	DIXIELAND RD.	7.92	40	25
8+89	DIXIELAND RD.	7.92	48	30
	15TH STREET	11.42	27	24
	14TH PLACE	11.42	39	35
	14TH STREET	11.42	30	27
15+39	13TH STREET	11.42	92	83
15+83	13TH STREET	7.92	49	31
	12TH STREET	9.08	38	27
	12TH STREET	7.92	32	20
	10TH STREET	8.50	26	18
	9TH STREET	8.50	24	16
15+76	HWY. 94	7.92	70	44
17+96	HWY. 94	7.92	99	62
	CHESTNUT STREET	7.92	43	27
TOTAL:				951

AVG. DEPTH = 13"

FLOWABLE SELECT MATERIAL

STATION	LOCATION	CU. YD.
13+15	HWY. 71B	16.35
18+10	HWY. 71B	44.61
19+86	HWY. 71B	17.38
23+83	HWY. 71B	43.73
37+12	HWY. 71B	17.20
38+66	HWY. 71B	18.00
44+00	HWY. 71B	42.65
51+27	HWY. 71B	14.90
63+39	HWY. 71B	54.26
63+75	HWY. 71B	33.96
70+54	HWY. 71B	53.91
7+36	DIXIELAND RD.	13.60
8+89	DIXIELAND RD.	16.26
15+83	13TH STREET	14.71
15+82	HWY. 94	49.77
18+00	HWY. 94	14.80
TOTAL:		466

TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.
NOTE: QUANTITY IS ESTIMATED.
SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
2-22-2024
JEROME PAUL DAVIS

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL						TEMPORARY EROSION CONTROL							
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SOLID SODDING	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	ROCK DITCH CHECKS (E-6)	FILTER SOCK (8") (E-13)	SILT FENCE (E-11)	* SEDIMENT REMOVAL AND DISPOSAL
			ACRE	TON	ACRE	M. GAL.	ACRE	SQ. YD.	ACRE	ACRE	M. GAL.	BAG	CU. YD.	LIN. FT.	LIN.FT.	CU. YD.
11+90	37+00	HWY. 71B - STAGE 1	0.30	0.60	0.30	62.7	0.30	2548.60	0.82	0.82	16.7			500		20
37+00	63+00	HWY. 71B - STAGE 1	0.01	0.02	0.01	30.7	0.01	2352.90	0.50	0.50	10.2			700		28
63+00	75+00	HWY. 71B - STAGE 1	0.04	0.08	0.04	23.6	0.04	1545.76	0.35	0.35	7.1			325		13
6+00	13+80	DIXIELAND RD. - STAGE 1	0.01	0.02	0.01	9.1	0.01	644.45	0.13	0.13	2.7			175		7
14+94	19+35	S.H. 94 - STAGE 1	0.01	0.02	0.01	4.8	0.01	301.62	0.07	0.07	1.4			75		3
11+90	37+00	HWY. 71B - STAGE 2	0.03	0.06	0.03	24.6	0.03	1706.16	0.39	0.39	8.0			175		7
37+00	63+00	HWY. 71B - STAGE 2	0.01	0.02	0.01	28.7	0.01	2197.30	0.46	0.46	9.4			375		15
63+00	75+00	HWY. 71B - STAGE 2	0.02	0.04	0.02	19.1	0.02	1354.09	0.28	0.28	5.7			125		5
6+00	13+80	DIXIELAND RD. - STAGE 2	0.01	0.02	0.01	7.8	0.01	535.43	0.11	0.11	2.2					
14+94	19+35	S.H. 94 - STAGE 2	0.01	0.02	0.01	5.7	0.01	370.09	0.08	0.08	1.6					
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			0.11	0.22	0.11	53.9	0.10	3390.00	0.80	1.05	16.3	440	30	612.5	2000	180
TOTALS:			0.56	1.12	0.56	270.7	0.55	16946.40	3.99	4.24	81.3	440	30	3063	2000	278

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
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
FILTER SOCKS.....25 LIN.FT./LOCATION
ROCK DITCH CHECKS.....3 CU. YDS. PER DITCH

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 ARE ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

QUANTITIES

USER: qp518
DESIGN FILE: G:\II06100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn MODEL: QUANTITIES
PLOTTED: 2/22/2024 12:33 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	59	320
		QUANTITIES				

REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB AND GUTTER	CONCRETE DRIVEWAYS	WALKS	BRICK WALLS	RETAINING WALLS	STEEL POST	SPRINKLER SYSTEM	PLANTER
			LIN. FT.	SQ. YD.	SQ. YD.	LIN. FT.	LIN. FT.	EA.	EA.	EA.
11+90	16+71	HWY. 71B LT. - BEGIN TO DIXIELAND RD.	592	24	113					
11+74	16+74	HWY. 71B RT. - BEGIN TO DIXIELAND RD.	531	323						
17+21	33+79	HWY. 71B LT. - DIXIELAND RD. TO 14TH PL.	2178	648	434					
17+26	30+14	HWY. 71B RT. - DIXIELAND RD. TO 15TH ST.	1319		328					
17+50	21+00	HWY. 71B RT.							1	
24+39		HWY. 71B LT.								1
25+48		HWY. 71B LT.				10				
30+36	43+06	HWY. 71B RT. - 15TH ST. TO 13TH ST.	1929	802	423					
34+25	43+01	HWY. 71B LT. - 14TH PL.TO 13TH ST.	1126	305	344		10			
41+88		HWY. 71B RT.						2		
43+46	57+99	HWY. 71B RT. - 13TH ST. TO 11TH ST.	2681		599	113				
43+50	49+08	HWY. 71B LT. - 13TH ST. TO 12TH PL.	697	286	216					
49+59	56+22	HWY. 71B LT. - 12TH PL. TO 11TH PL.	871	464	161					
49+95	50+20	HWY. 71B RT.				30				
50+70	51+00	HWY. 71B RT.				30				
56+50	59+69	HWY. 71B LT. - 11TH PL. TO 10TH ST.	539	108	14					
56+79		HWY. 71B LT. - CONCRETE BLOCK WALL				8				
60+01	56+57	HWY. 71B LT. - 10TH ST. TO 9TH ST.	774	314	155		39			
58+28	70+90	HWY. 71B RT. - 11TH ST. TO 8TH ST.	2167	160	91					
64+50	65+80	HWY. 71B LT.							1	
66+05	68+60	HWY. 71B LT. - 9TH ST. TO 8TH ST.	528	889	9					
72+10	75+06	HWY. 71B RT. - 8TH ST. TO END OF JOB	128	162	46					
70+14	75+00	HWY. 71B LT. - 8TH ST. TO END OF JOB	776	56	143					
5+86	9+70	DIXIELAND RD. LT. - BEG. CONST. TO 71B	337	347	169					
6+00	9+18	DIXIELAND RD. RT. - BEG. CONST. TO 71B	314	57	115					
6+77		DIXIELAND RD. LT.				10				
10+65	12+99	DIXIELAND RD. RT. - 71B TO END CONST.	252							
10+72	13+80	DIXIELAND RD. LT. - 71B TO END CONST.	287		146					
13+00	14+44	13TH ST. RT. - BEG. CONST. TO 71B	97	131	42					
13+43	14+33	13TH ST. LT. - BEG. CONST. TO 71B	27	77	9					
15+59	17+13	13TH ST. LT. - 71B TO END CONST.	264							
15+89	17+20	13TH ST. RT. - 71B TO END CONST.	131							
15+06	19+35	HWY. 94 RT. - 71B TO END CONST.	487		135					
15+29	19+35	HWY. 94 LT. - 71B TO END CONST.	782	66	243					
19+35	21+50	HWY. 94 LT. - PARKING BEYOND END CONST	80		18					
5+40	10+21	WALNUT ST. RT. - 71B TO END CONST.	413	608	201					
5+48	10+34	WALNUT ST. LT. - 71B TO END CONST.	169	282	152					
TOTALS:			20476	6109	4306	201	49	2	2	1

SIGN REMOVALS

STATION	LOCATION	REMOVAL AND DISPOSAL OF SIGN FOUNDATIONS	REMOVAL AND DISPOSAL OF SIGNS
		EACH	
16+34	HWY. 71B - SIGN ON LT.	1	2
17+81	HWY. 71B - SIGN ON RT.	2	2
21+22	HWY. 71B - SIGN ON LT.	1	2
21+66	HWY. 71B - SIGN ON RT.	2	2
24+39	HWY. 71B - SIGN ON LT.	1	2
25+48	HWY. 71B - SIGN ON LT.	1	1
29+43	HWY. 71B - SIGN ON RT.		1
29+61	HWY. 71B - SIGN ON LT.	1	4
31+11	HWY. 71B - SIGN ON LT.	1	1
32+37	HWY. 71B - SIGN ON RT.		1
32+48	HWY. 71B - SIGN ON RT.	1	1
34+64	HWY. 71B - SIGN ON LT.	1	1
35+30	HWY. 71B - SIGN ON LT.	2	1
36+28	HWY. 71B - SIGN ON LT.	2	2
40+97	HWY. 71B - SIGN ON RT.	1	1
41+89	HWY. 71B - SIGN ON RT.	1	1
50+97	HWY. 71B - SIGN ON LT.	1	2
52+49	HWY. 71B - SIGN ON LT.	4	1
53+42	HWY. 71B - SIGN ON LT.	1	2
53+72	HWY. 71B - SIGN ON RT.	1	1
54+39	HWY. 71B - SIGN ON LT.	1	1
54+86	HWY. 71B - SIGN ON LT.	1	4
55+09	HWY. 71B - SIGN ON RT.	1	1
55+41	HWY. 71B - SIGN ON RT.	1	1
55+63	HWY. 71B - SIGN ON RT.	1	2
55+95	HWY. 71B - SIGN ON RT.	1	1
56+10	HWY. 71B - SIGN ON LT.	2	1
56+80	HWY. 71B - SIGN ON LT.	1	1
57+40	HWY. 71B - SIGN ON LT.	1	1
57+84	HWY. 71B - SIGN ON RT.	1	1
58+50	HWY. 71B - SIGN ON LT.	1	1
59+58	HWY. 71B - SIGN ON LT.	1	8
60+60	HWY. 71B - SIGN ON LT.	1	2
61+68	HWY. 71B - SIGN ON LT.	1	1
62+14	HWY. 71B - SIGN ON LT.	1	
62+29	HWY. 71B - SIGN ON LT.	1	1
63+58	HWY. 71B - SIGN ON LT.	1	1
64+40	HWY. 71B - SIGN ON LT.	1	1
65+55	HWY. 71B - SIGN ON LT.	1	1
66+27	HWY. 71B - SIGN ON LT.	1	1
69+04	HWY. 71B - SIGN ON LT.	1	3
71+67	HWY. 71B - SIGN ON LT.	1	1
71+96	HWY. 71B - SIGN ON LT.	2	1
72+43	HWY. 71B - SIGN ON RT.	1	1
6+77	DIXIELAND RD - SIGN ON LT.	1	1
7+09	WALNUT ST - SIGN ON RT.	1	1
7+76	WALNUT ST - SIGN ON LT.	1	1
TOTALS:		54	71



REMOVAL AND DISPOSAL OF FENCE & PIPE RAILING

STATION	STATION	LOCATION	CHAIN LINK FENCE	PIPE RAILING
			LIN. FT.	
38+67		HWY. 71B - C.L. FENCE ON WALL ON LT.	10	
63+41	63+53	HWY. 71B - PIPE RAILING ON LT.		12
73+25		HWY. 71B - PIPE RAILING ON RT.		39
TOTALS:			10	51

REMOVAL AND DISPOSAL OF LIGHT POLES & FLAG POLES

STATION	LOCATION	FLAG POLES	LUMINAIRE POLE AND FOUNDATION
			EACH
18+40	HWY. 71B - LIGHT POLE ON RT.		1
19+20	HWY. 71B - LIGHT POLE ON RT.		1
20+10	HWY. 71B - LIGHT POLE ON RT.		1
31+55	HWY. 71B - LIGHT POLE ON RT.		1
46+86	HWY. 71B - LIGHT POLE ON RT.		1
47+79	HWY. 71B - LIGHT POLE ON RT.		1
48+97	HWY. 71B - LIGHT POLE ON RT.		1
49+94	HWY. 71B - LIGHT POLE ON RT.		1
51+01	HWY. 71B - LIGHT POLE ON RT.		1
64+35	HWY. 71B - LIGHT POLE ON LT.		1
64+86	HWY. 71B - FLAG POLE ON LT.	1	
65+50	HWY. 71B - LIGHT POLE ON LT.		1
66+85	HWY. 71B - FLAG POLE ON LT.	1	
5+88	WALNUT ST. - LIGHT POLE ON LT.		1
7+08	WALNUT ST. - LIGHT POLE ON RT.		1
7+68	WALNUT ST. - LIGHT POLE ON LT.		1
7+88	WALNUT ST. - FLAG POLE ON RT.	1	
8+37	WALNUT ST. - LIGHT POLE ON RT.		1
8+97	WALNUT ST. - LIGHT POLE ON LT.		1
TOTALS:		3	16

REMOVAL AND DISPOSAL OF CONCRETE

STATION	STATION	LOCATION	CONCRETE ISLANDS	CONCRETE SLABS	CONCRETE DITCH PAVING
			SQ. YD.		
23+62	23+73	HWY. 71B - CONC. DITCH PAVING LT.			3
34+16	34+38	HWY. 71B - CONC. DITCH PAVING RT.			36
41+30		HWY. 71B - CONCRETE ISLAND ON DRIVEWAY LT.	9		
13+64		13TH STREET - CONC. DITCH PAVING RT.			5
16+45		13TH STREET - CONC. DITCH PAVING LT.			7
17+08		13TH STREET - CONC. DITCH PAVING LT.			1
47+72		HWY. 71B - CONCRETE SLAB RT.		10	
50+43		HWY. 71B - CONCRETE ISLAND ON DRIVEWAY RT	9		
62+13		HWY. 71B - CONC. DITCH PAVING RT.			9
63+43		HWY. 71B - CONC. DITCH PAVING LT.			135
63+63		HWY. 71B - CONC. DITCH PAVING RT.			25
69+34	69+54	HWY. 71B - CONC. ISLAND ON RT.	25		
69+35	69+48	HWY. 71B - CONC. ISLAND ON LT.	15		
72+60		HWY. 71B - CONCRETE ISLAND ON DRIVEWAY RT	15		
TOTALS:			73	10	221

BENCH MARKS

STATION	LOCATION	BENCH MARKS
		EACH
13+14	TOP OF DROP INLET ON RT.	1
63+40	HDWL. OF R.C. BOX CULVERT ON LT.	1
TOTAL:		2

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

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn MODEL: QUANTITIES
PLOTTED: 5/16/2023 16:42 SCALE: 1:10

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	60	320
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-22-2023

STRUCTURES (BOX 1 OF 3)

STATION	DESCRIPTION	REINFORCED CONCRETE PIPE CULVERT										REINFORCED CONCRETE ARCH PIPE CULVERT		SIDE DRAIN	PIPE CULVERT STORM DRAIN ALTERNATES 1 & 2									FLARED END SECTIONS FOR R.C. PIPE CULVERTS	DROP INLETS					DROP INLET EXTENSIONS		MODIFYING DROP INLETS	JUNCTION BOXES		SOLID SODDING	WATER	STD. DWG. NOS.
		CLASS III					CLASS IV			CLASS V		CLASS IV	CLASS V												TYPE MO	TYPE C	TYPE ST	YARD DRAIN	TYPE C SPECIAL	4'	8'		TYPE E	TYPE ST			
		18"	24"	36"	48"	54"	18"	24"	30"	18"	24"	54"	65" X 40"	51' X 31"	12"	18"	24"	30"	36"	42"	48"	54"	22"X14"	51"X31"	54"													
		LIN. FT.																							EACH											SQ. YD.	M.GAL.	
	HWY. 71B																																					
13+14	DROP INLET ON RT.															177										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
13+15	DROP INLET ON LT.						65																			1						1						FPC-9E,FPC-9M,PCC-1
14+73	DROP INLET ON RT.															155										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
18+09	DROP INLET ON LT.																		43							1					1							FPC-9E,FPC-9M,PCC-1, PCM-1
18+11	DROP INLET ON RT.			76																						1						1						FPC-9E,FPC-9M,PCC-1
19+86	DROP INLET ON LT.																173									1												FPC-9E,FPC-9M,PCC-1,PCM-1
19+86	DROP INLET ON RT.									69																	1					1						FPC-9E,PCC-1
20+29	DROP INLET ON LT.																39									1					1							FPC-9E,FPC-9M,PCC-1,PCM-1
21+15	DROP INLET ON RT.															125										1					1							FPC-9E,FPC-9M,PCC-1,PCM-1
21+20	DROP INLET ON RT.															7										1												FPC-9E,FPC-9M,PCC-1,PCM-1
23+65	DROP INLET ON LT IN PARKING LOT															10										1					1							FPC-9E,FPC-9M,PCC-1,PCM-1
23+81	JUNCTION BOX ON LT.																																	1				FPC-9,PCC-1
23+83	DROP INLET ON LT.																													1								FPC-9E
23+83	DROP INLET ON RT. W/BACK OPENING																										1					1						FPC-9E
25+10	DROP INLET ON RT. W/BACK OPENING																										1					1						FPC-9E
26+23	DROP INLET ON RT. W/BACK OPENING																					109				1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
26+40	DROP INLET ON LT.																													1		1						FPC-9E
28+80	DROP INLET ON LT.																													1		1						SP. DTLS.,FPC-9E
28+80	DROP INLET ON RT.																					253				1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
30+60	DROP INLET ON LT.																													1		1						SP. DTLS.,FPC-9E
30+66	MODIFY DROP INLET ON RT.																32																	1				
30+85	DROP INLET ON RT. W/BACK OPENING											201														1					1							FPC-9E,FPC-9M,PCC-1,PCM-1
31+04	DROP INLET ON LT.															180											1											FPC-9E,PCC-1,PCM-1
32+65	DROP INLET ON LT.																													1		1						SP. DTLS.,FPC-9E
32+65	DROP INLET ON RT. W/BACK OPENING																					176				1							1					FPC-9E,FPC-9M,PCC-1,PCM-1
33+48	DROP INLET ON LT.																					79								1		1						SP. DTLS.,FPC-9E,PCC-1,PCM-1
34+20	DROP INLET ON RT W/INLET PIPE & FES					16																151			1	1						1				35	0.44	FES-1,FES-2,FPC-9E,FPC-9M,PCC-1,PCM-1
34+58	HWY. 71B											106																		1		1						SP. DTLS.,FPC-9E,PCC-1
37+05	DROP INLET ON LT.					243										30														1				1				SP. DTLS.,FPC-9E,PCC-1,PCM-1
37+12	DROP INLET ON RT.									32	64															1						1	1					FPC-9E,FPC-9M,PCC-1
38+66	DROP INLET ON RT.		65																							1					1							FPC-9E,FPC-9M,PCC-1
38+79	DROP INLET ON LT W/BACK OPENING																					170								1		1						SP. DTLS.,FPC-9E,PCC-1,PCM-1
40+94	DROP INLET ON LT.																					211								1		1						SP. DTLS.,FPC-9E,PCC-1,PCM-1
41+05	DROP INLET ON RT. W/BACK OPENING																236									1					1							FPC-9E,FPC-9M,PCC-1,PCM-1
42+42	DROP INLET ON LT.																					144								1								SP. DTLS.,FPC-9E,PCC-1,PCM-1
42+42	DROP INLET ON RT.																134									1												FPC-9E,FPC-9M,PCC-1,PCM-1
42+92	JUNC. BOX ON LT.					47																												1				FPC-9S,PCC-1
43+95	DROP INLET ON RT.				66																					1						1						FPC-9E,FPC-9M,PCC-1
44+00	DROP INLET ON LT.					105																								1								SP. DTLS.,FPC-9E,PCC-1
45+70	DROP INLET ON LT.																		165											1								SP. DTLS.,FPC-9E,PCC-1,PCM-1
45+80	DROP INLET ON RT.																				181					1												FPC-9E,FPC-9M,PCC-1,PCM-1
46+60	DROP INLET ON LT.																		86											1		2						SP. DTLS.,FPC-9E,PCC-1, PCM-1
46+61	DROP INLET ON RT.																				77					1						2						FPC-9E,FPC-9M,PCC-1,PCM-1
46+80	DROP INLET ON LT. W/BACK OPENING																		16											1								SP. DTLS.,FPC-9E,PCC-1,PCM-1
47+53	DROP INLET ON LT.																		69											1				1				SP. DTLS.,FPC-9E,PCC-1,PCM-1
47+56	DROP INLET ON RT.																			91						1							1					FPC-9E,FPC-9M,PCC-1,PCM-1
47+57	DROP INLET ON RT.																4										1											FPC-9E,PCC-1,PCM-1,PCM-1
48+35	DROP INLET ON LT. W/BACK OPENING																	78								1												FPC-9E,FPC-9M,PCC-1,PCM-1
48+88	DROP INLET ON LT																	50								1							1					FPC-9E,FPC-9M,PCC-1,PCM-1
49+25	JUNCTION BOX ON LT								34																									1				FPC-9S,PCC-1
49+27	DROP INLET ON LT						29																			1												FPC-9E,FPC-9M,PCC-1
49+62	DROP INLET ON LT.						32																					1										FPC-9E,FPC-9M,PCC-1
49+92	DROP INLET ON LT.								64																	1							1					FPC-9E,FPC-9M,PCC-1
51+26	DROP INLET ON RT.							59																		1												FPC-9E,FPC-9M,PCC-1
51+27	DROP INLET ON LT. W/BACK OPENING																	132												1			1					SP. DTLS.,FPC-9E,PCC-1,PCM-1
52+08	DROP INLET ON RT. W/BACK OPENING																79									1												FPC-9E,FPC-9M,PCC-1,PCM-1
52+60	DROP INLET ON LT.															130										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
52+60	DROP INLET ON RT. W/BACK OPENING															49										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
57+12	DROP INLET ON LT.															229										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
57+12	DROP INLET ON RT. W/BACK OPENING															52										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
SUBTOTALS (BOX 1 OF 3):			**65**	**76**	**66**	**411**	**126**	**59**	**98**	**101**	**64**	**307**				**1144**	**697**	**260**	**379**	**91**	**258**	**1293**			**1**	**33**	**5**	**1**		**17**	**21**	**20**	**3**	**1**	**2**	**35**	**0.44**	

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.

QUANTITIES

USER: ap5181 DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn MODEL: QUANTITIES PLOTTED: 5/22/2023 16:41 SCALE: 1i0

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	61	320
		QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-22-2023

STRUCTURES (BOX 2 OF 3)

STATION	DESCRIPTION	REINFORCED CONCRETE PIPE CULVERT										REINFORCED CONCRETE ARCH PIPE CULVERT		SIDE DRAIN	PIPE CULVERT STORM DRAIN ALTERNATES 1 & 2								FLARED END SECTIONS FOR R.C. PIPE CULVERTS	DROP INLETS					DROP INLET EXTENSIONS		MODIFYING DROP INLETS	JUNCTION BOXES		SOLID SODDING	WATER	STD. DWG. NOS.
		CLASS III					CLASS IV			CLASS V		CLASS IV	CLASS V											TYPE MO	TYPE C	TYPE ST	YARD DRAIN	TYPE C SPECIAL	4'	8'		TYPE E	TYPE ST			
		18"	24"	36"	48"	54"	18"	24"	30"	18"	24"	54"	65" X 40"	51' X 31"	12"	18"	24"	30"	36"	42"	48"	54"	22"X14"	51"X31"	54"												
		LIN. FT.																							EACH										SQ. YD.	M.GAL.	
57+67	DROP INLET ON RT. W/BACK OPENING		95																						1						1					FPC-9E,FPC-9M,PCC-1
58+65	DROP INLET ON RT.															75									1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
59+44	DROP INLET ON LT.							86																					1	1						SPECIAL DTLS,FPC-9E,PCC-1
59+44	DROP INLET ON RT. W/BACK OPENING																	132								1				1						FPC-9E,FPC-9M,PCC-1,PCM-1
60+34	DROP INLET ON LT. W/BACK OPENING																	108											1							SPECIAL DTLS,FPC-9E,PCC-1,PCM-1
60+80	DROP INLET ON RT.																		129						1											FPC-9E,FPC-9M,PCC-1,PCM-1
61+45	DROP INLET ON LT.																	66							1											FPC-9E,FPC-9M,PCC-1,PCM-1
62+13	DROP INLET ON RT. W/BACK OPENING																			125					1					2						FPC-9E,FPC-9M,PCC-1,PCM-1
62+15	DROP INLET ON LT.																							122	1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
63+32	DROP INLET ON LT.												80													1										FPC-9E,PCC-1
63+45	JUNCTION BOX ON LT.																																1			FPC-9S
63+48	DROP INLET ON RT.												124													1										FPC-9E,PCC-1
63+63	DROP INLET ON RT. W/BACK OPENING																									1										FPC-9E
63+76	DROP INLET ON LT.												51													1					1					FPC-9E,PCC-1
63+76	DROP INLET ON RT.												59													1					1					FPC-9E,PCC-1
66+33	DROP INLET ON RT.															252									1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
66+41	DROP INLET ON LT. W/BACK OPENING							261																	1							1					FPC-9E,FPC-9M,PCC-1
67+10	JUNCTION BOX ON RT.															74																	1				FPC-9S,PCC-1, PCM-1
68+45	DROP INLET ON LT.														201										1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
68+45	DROP INLET ON RT.															132									1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
70+54	JUNCTION BOX ON RT.															89																	1				FPC-9S,PCC-1,PCM-1
70+70	JUNCTION BOX ON LT.							126																									1				FPC-9S,PCC-1
71+00	DROP INLET ON RT.														45										1					2						FPC-9E,FPC-9M,PCC-1,PCM-1
71+39	DROP INLET ON LT.														69										1					2						FPC-9E,FPC-9M,PCC-1,PCM-1
73+02	DROP INLET ON RT.																						394		1					1						FPC-9E,FPC-9M,PCC-1,PCM-1
73+03	DROP INLET ON LT. W/BACK OPENING																						90		1					1						FPC-9E,FPC-9M,PCC-1,PCM-1
73+84	JUNCTION BOX ON LT.														17																	1				FPC-9S,PCC-1,PCM-1
73+97	DROP INLET ON LT.																						124			1				1						FPC-9E,PCC-1,PCM-1
	DIXIELAND ROAD																																			
7+36	DROP INLET ON LT.	62																							1					1						FPC-9E,FPC-9M,PCC-1
7+36	DROP INLET ON RT.														149										1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
8+89	DROP INLET ON LT.	76																							1					1						FPC-9E,FPC-9M,PCC-1
8+89	DROP INLET ON RT.														54										1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
9+33	CONNECT DETENTION STRUC. ON RT.															11																				FPC-9S,PCC-1,PCM-1
9+45	DROP INLET ON RT.																		55						1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
10+51	JUNCTION BOX ON RT.																		37															1			FPC-9S,PCC-1,PCM-1
10+83	DROP INLET ON RT.																		56						1					1						FPC-9E,FPC-9M,PCC-1,PCM-1
11+43	DROP INLET ON RT.													104												1					1					FPC-9E,PCC-1
	13TH STREET																																			
13+10	DROP INLET ON RT. W/BACK OPENING														80										1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
13+65	YARD DRAIN ON RT.													28														1								FPC-9,PCM-1
13+93	DROP INLET ON RT.														49										1						1					FPC-9E,FPC-9M,PCC-1,PCM-1
13+95	DROP INLET ON LT.														46										1					1						FPC-9E,FPC-9M,PCC-1,PCM-1
14+44	DROP INLET ON LT. W/BACK OPENING														59										1											FPC-9E,FPC-9M,PCC-1,PCM-1
14+44	JUNCTION BOX ON RT.														39																		1			FPC-9S,PCC-1,PCM-1
15+83	DROP INLET ON LT.	40																							1											FPC-9E,FPC-9M,PCC-1
15+83	DROP INLET ON RT.	50																							1											FPC-9E,FPC-9M,PCC-1
16+47	DROP INLET ON LT.														58										1											FPC-9E,FPC-9M,PCC-1,PCM-1
16+80	DROP INLET ON RT. ADJ. TO GRADE W/B.O.																															1				FPC-9E,FPC-9M,PCC-1
17+08	DROP INLET ON LT. ADJ. TO GRADE W/B.O.																															1				FPC-9E,FPC-9M,PCC-1
	S.H. 94																																			
15+82	DROP INLET ON RT.	171																							1						1					FPC-9E,FPC-9M,PCC-1
17+92	DROP INLET ON LT.														165										1					1						FPC-9E,FPC-9M,PCC-1,PCM-1
18+00	DROP INLET ON RT.	67																							1						1					FPC-9E,FPC-9M,PCC-1
19+56	DROP INLET ON LT. MODIFY TO GRATE																										1					1				FPC-9N,FPC9S
SUBTOTALS (BOX 2 OF 3):		466	95					473					314	104	28	1031	633	306	277	125			608	122		30	8	1	1	2	19	14	3	5	2			

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.

QUANTITIES

USER: ap518l
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 5/22/2023 16:42
SCALE: 1:1
MODEL: QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	62	320
		QUANTITIES				

STRUCTURES (BOX 3 OF 3)

STATION	DESCRIPTION	REINFORCED CONCRETE PIPE CULVERT										REINFORCED CONCRETE ARCH		SIDE DRAIN	PIPE CULVERT STORM DRAIN ALTERNATES 1 & 2									FLARED END SECTIONS FOR R.C. PIPE	DROP INLETS					DROP INLET EXTENSIONS		MODIFYING DROP INLETS	JUNCTION BOXES		SOLID SODDING	WATER	STD. DWG. NOS.
		CLASS III					CLASS IV			CLASS V		CLASS IV	CLASS V												TYPE MO	TYPE C	TYPE ST	YARD DRAIN	TYPE C SPECIAL	4'	8'		TYPE E	TYPE ST			
		18"	24"	36"	48"	54"	18"	24"	30"	18"	24"	54"	65" X 40"	51" X 31"	12"	18"	24"	30"	36"	42"	48"	54"	22"X14"	51"X31"	54"												
		LIN. FT.																							EACH										SQ. YD.	M.GAL.	
	WALNUT STREET																																				
5+97	DROP INLET ON LT.														79										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
6+33	DROP INLET ON RT.														74										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
7+50	DROP INLET ON LT.														149										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
7+50	DROP INLET ON RT.														114										1						1						FPC-9E,FPC-9M,PCC-1,PCM-1
* ENTIRE PROJECT - TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER														100														3								
SUBTOTALS (BOX 1 OF 3):			65	76	66	411	126	59	98	101	64	307				1144	697	260	379	91	258	1293			1	33	5	1		17	21	20	3	1	2	35	0.44	
SUBTOTALS (BOX 2 OF 3):		466	95				473						314	104	28	1031	633	306	277	125			608	122		30	8	1	1	2	19	14	3	5	2			
SUBTOTALS (BOX 3 OF 3):															100	416										4			3			4					
TOTALS:		466	160	76	66	411	126	532	98	101	64	307	314	104	128	2591	1330	566	656	216	258	1293	608	122	1	67	13	2	4	19	40	38	6	6	4	35	0.44	

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: QUANTITIES ARE ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

R.C. BOX CULVERTS

STATION	DESCRIPTION	REINF. CONCRETE BOX CULVERTS						UNCL. EXC. FOR STR. (ROADWAY)	CLASS S CONCRETE-ROADWAY	REINF. STEEL-ROADWAY (GRADE 60)	SOLID SODDING	WATER	STD. DWG. NOS.
		SPAN	HEIGHT	LENGTH	PRECAST R.C. BOX 5' X 4'	PRECAST R.C. BOX 6' X 4'	PRECAST R.C. BOX 8' X 4'						
		FEET			LIN. FT.			CU. YD.	CU. YD.	POUND	SQ. YD.	M.GAL.	
	HWY. 71B												
23+81	FROM JUNCTION BOX TO OUTLET W/ 3:1 WINGWALLS ON LT.	8	4	265			265	119.11			6	0.10	FPC-9,PBC-1,PCC-1,RCB-2, W-X003-1
23+83	FROM DROP INLET TO JUNC BOX ON LT.	8	4	29			29	14.22					FPC-9E,PBC-1,RCB-2
23+83	FROM DROP INLET ON RT. TO DROP INLET ON LT.	6	4	65		65		25.19					FPC-9E,PBC-1,RCB-2
25+10	FROM DROP INLET ON RT.	6	4	121		121		45.93					FPC-9E,PBC-1,RCB-2
26+40	FROM DROP INLET ON LT.	5	4	251	251			84.67					FPC-9E,PBC-1,RCB-2
28+80	FROM DROP INLET ON LT.	5	4	236	236			79.67					FPC-9E,PBC-1,RCB-2
30+60	FROM DROP INLET ON LT.	5	4	176	176			59.67					FPC-9E,PBC-1,RCB-2
32+65	FROM DROP INLET ON LT.	5	4	201	201			68.00					FPC-9E,PBC-1,RCB-2
63+45	EXTEND EXISTING BOX 10' LT.	10	3	9				5.23	9.24	968			SPECIAL DETAILS, FPC-9S,PBC-1,RCB-1, RCB-2,RCB-3
63+45	FROM DROP INLET ON LT,	10	3	42				23.33	41.86	4124	9	0.11	SPECIAL DETAILS, FPC-9S,PBC-1,RCB-1, RCB-2,RCB-4
TOTALS:					864	186	294	525.02	51.10	5092	15	0.21	

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

RELOCATE OUTLET STRUCTURE

STATION	LOCATION	EACH
9+33	DIXIELAND RD. RT.	1
TOTAL:		1

WHEELCHAIR RAMPS

STATION	SIDE	DESCRIPTION	TYPE 3
			SQ. YD.
16+19	LT.	HWY. 71B	7.7
16+19	RT.	HWY. 71B	7.6
17+71	LT.	HWY. 71B	8.9
17+71	RT.	HWY. 71B	8.2
29+93	RT.	HWY. 71B	11.2
30+55	RT.	HWY. 71B	11.2
33+69	LT.	HWY. 71B	8.6
34+45	LT.	HWY. 71B	11.2
36+23	LT.	HWY. 71B	11.2
36+92	LT.	HWY. 71B	11.2
42+55	LT.	HWY. 71B	3.5
42+55	RT.	HWY. 71B	3.3
42+85	RT.	HWY. 71B	5.0
42+96	LT.	HWY. 71B	3.8
13+59	LT.	13TH STREET	5.4
13+85	LT.	13TH STREET	4.9
14+01	RT.	13TH STREET	7.1
14+40	RT.	13TH STREET	6.7
43+56	LT.	HWY. 71B	3.7
43+60	RT.	HWY. 71B	4.7
43+85	RT.	HWY. 71B	6.7
43+86	LT.	HWY. 71B	7.2
49+09	LT.	HWY. 71B	8.3
49+77	LT.	HWY. 71B	8.6
56+06	LT.	HWY. 71B	8.6
56+68	LT.	HWY. 71B	8.6
57+80	RT.	HWY. 71B	11.2
58+43	RT.	HWY. 71B	8.6
59+58	LT.	HWY. 71B	8.6
60+20	LT.	HWY. 71B	8.6
65+63	LT.	HWY. 71B	11.2
66+26	LT.	HWY. 71B	8.6
69+09	LT.	HWY. 71B	3.4
69+19	RT.	HWY. 71B	3.4
5+43	LT.	WALNUT ST.	8.7
5+57	LT.	WALNUT ST.	8.4
70+58	LT.	HWY. 71B	3.3
18+00	LT.	HWY. 94	11.0
18+62	LT.	HWY. 94	7.8
19+05	RT.	HWY. 94	8.3
9+29	LT.	DIXIELAND RD.	8.2
9+29	RT.	DIXIELAND RD.	8.2
10+71	LT.	DIXIELAND RD.	8.2
10+71	RT.	DIXIELAND RD.	9.0
TOTAL:			337.8

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
6-28-2023

QUANTITIES

USER: ap5181
DESIGN FILE: G:\M06100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 6/28/2023 09:30
SCALE: 1:0
MODEL: QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12/04/2023		6	ARK.	090338	63	320
		QUANTITIES				

DRIVEWAYS & TURNOUTS (BOX 1 OF 2)

STATION	SIDE	LOCATION	WIDTH	*MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)
			FEET	STATION	STATION	SQ. YD.	SQ. YD.	TON	TON
12+03	RT.	HWY. 71B	30	11+74	12+32	74.27			
12+76	RT.	HWY. 71B	25	12+50	13+03	93.49			
13+76	LT.	HWY. 71B	27	13+48	14+03	55.01	82.21	9.04	33.57
13+99	LT.	HWY. 71B	25	13+73	14+26	99.73			
15+25	RT.	HWY. 71B	24	14+99	15+51	66.64			
19+56	LT.	HWY. 71B	28	19+28	19+84	152.63			
20+31	RT.	HWY. 71B	40	19+97	20+65	87.99			
21+01	LT.	HWY. 71B	27	20+74	21+29	55.01	72.93	8.02	29.78
21+80	RT.	HWY. 71B	20	21+56	22+04	48.01	35.51	3.91	14.50
22+56	RT.	HWY. 71B	12	22+36	22+78	41.99	15.33	1.69	6.26
22+60	LT.	HWY. 71B	23	22+35	23+86	80.39			
22+95	RT.	HWY. 71B	16	22+68	23+14	36.00	20.44	2.25	8.35
24+47	RT.	HWY. 71B	12	24+27	24+67	40.00	8.67	0.95	3.54
24+85	RT.	HWY. 71B	12	24+65	25+05	38.00	8.67	0.95	3.54
24+87	LT.	HWY. 71B	19	24+64	25+11	47.50	66.50	7.32	27.15
25+23	LT.	HWY. 71B	12	25+03	25+43	40.00	42.00	4.62	17.15
25+73	LT.	HWY. 71B	12	25+53	25+93	40.00	42.00	4.62	17.15
25+84	RT.	HWY. 71B	12	25+64	26+04	40.00	8.67	0.95	3.54
26+53	RT.	HWY. 71B	12	26+33	26+72	40.00	8.67	0.95	3.54
26+74	LT.	HWY. 71B	21	26+50	26+99	49.00	73.50	8.09	30.01
27+15	RT.	HWY. 71B	26	26+88	27+42	54.00	18.78	2.07	7.67
28+27	LT.	HWY. 71B	35	27+97	28+59	63.00	200.28	22.03	81.78
29+20	LT.	HWY. 71B	23	28+95	29+46	131.50			
30+91	LT.	HWY. 71B	22	30+66	31+16	102.56			
31+81	LT.	HWY. 71B	29	31+52	32+10	77.94			
32+08	LT.	HWY. 71B	24			42.73			
32+19	RT.	HWY. 71B	27	31+91	32+46	74.50			
32+50	RT.	HWY. 71B	24			75.93			
33+74	RT	HWY. 71B	38	33+41	34+07	93.44			
35+95	RT.	HWY. 71B	34	35+64	36+26	124.33			
36+82	RT.	HWY. 71B	16	36+60	37+05	56.60			
37+56	RT.	HWY. 71B	26	37+29	37+83	72.78			
38+32	LT.	HWY. 71B	25	38+06	38+59	53.00	45.83	5.04	18.71
39+04	RT.	HWY. 71B	31	38+80	39+39	72.78	39.61	4.36	16.17
39+33	LT.	HWY. 71B	36	39+01	39+65	64.00	25.00	2.75	10.21
40+76	RT.	HWY. 71B	26	40+49	41+03	54.00	49.50	5.45	20.21
41+35	LT.	HWY. 71B	40	41+01	41+69	68.00	73.33	8.07	29.94
46+01	LT.	HWY. 71B	27	45+73	46+29	55.00	19.50	2.15	7.96
47+13	LT.	HWY. 71B	32	46+83	47+43	60.00	23.11	2.54	9.44
48+05	LT.	HWY. 71B	27	47+78	48+33	55.00	18.75	2.06	7.66
50+48	RT.	HWY. 71B	44	50+11	50+83	72.00	31.78	3.50	12.98
50+81	LT.	HWY. 71B	20	50+57	51+05	48.00	59.56	6.55	24.32
52+03	LT.	HWY. 71B	24	51+77	52+30	47.00	24.28	2.67	9.91
52+20	RT.	HWY. 71B	20				22.25	2.45	9.09
53+62	RT.	HWY. 71B	25	53+37	53+78	84.56	17.56	1.93	7.17
53+61	LT.	HWY. 71B	20	53+37	53+85	48.00	36.67	4.03	14.97
54+86	LT.	HWY. 71B	25	54+56	55+91	147.11			
55+26	RT.	HWY. 71B	18	55+03	55+49	45.33	33.00	3.63	13.48
56+11	RT.	HWY. 71B	18	55+88	56+34	45.33	22.67	2.49	9.26
56+75	RT.	HWY. 71B	18	56+52	56+98	53.00	22.67	2.49	9.26
58+36	LT.	HWY. 71B	21	58+12	58+61	87.50			
58+19	LT.	HWY. 71B	24			24.53			
61+13	RT.	HWY. 71B	33	60+83	61+44	53.00	31.94	3.51	13.04
61+80	LT.	HWY. 71B	20	61+56	62+04	48.00	51.66	5.68	21.09
62+45	LT.	HWY. 71B	26	62+18	62+72	54.00	61.89	6.81	25.27
63+43	LT.	HWY. 71B	23	63+17	63+71	54.00	87.35	9.61	35.67
64+56	RT.	HWY. 71B	40	64+21	64+89	68.00	28.88	3.18	11.79
65+30	LT.	HWY. 71B	30	65+01	65+52	49.28	83.57	9.19	34.12
66+17	RT.	HWY. 71B	15	65+69	66+15	45.95	12.96	1.43	5.29
67+70	LT.	HWY. 71B	28	67+42	67+98	156.33			
71+75	LT.	HWY. 71B	24	71+49	72+01	52.30	66.93	7.36	27.33
SUBTOTALS (BOX 1 OF 2):						**3959.97**	**1694.41**	**186.39**	**691.87**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.0% MIN. AGGR.....6.0% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

* FOR INFORMATION ONLY

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.

DRIVEWAYS & TURNOUTS (BOX 2 OF 2)

STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7)
			FEET	STATION	STATION	SQ. YD.	SQ. YD.	TON	TON
72+61	RT.	HWY. 71B	24	72+35	72+87	52.02	148.91	16.38	60.80
73+61	LT.	HWY. 71B	40	73+27	73+95	68.07	29.09	3.20	11.88
74+75	RT.	HWY. 71B	36	74+49	74+97	56.11	137.08	15.08	55.97
6+11	LT.	DIXIELAND RD.	20	5+86	6+27	85.78			
6+50	LT.	DIXIELAND RD.	20	6+27	6+75	93.03			
6+96	RT.	DIXIELAND RD.	33	6+65	7+26	61.13	22.63	2.49	9.24
7+71	RT.	DIXIELAND RD.	39	7+38	8+05	67.14	25.91	2.85	10.58
7+96	LT.	DIXIELAND RD.	36	7+64	8+29	129.92			
13+30	LT.	DIXIELAND RD.	37	12+98	13+63	65.13	85.41	9.40	34.88
13+74	LT.	13TH STREET	14			39.22			
14+21	RT.	13TH STREET	32			103.52			
16+73	LT.	HWY. 94	39	16+40	17+07	67.54			
17+30	RT.	HWY. 94	40	16+96	17+64	68.05	94.79	10.43	38.71
18+49	LT.	HWY. 94 CHESTNUT	24	-0+69	-1+25	56.00	33.21	3.65	13.56
6+78	RT.	WALNUT ST.	40	6+44	7+12	68.09	26.52	2.92	10.83
8+41	LT.	WALNUT ST.	30	8+12	8+70	58.13	13.97	1.54	5.70
8+11	RT.	WALNUT ST.	16	7+89	8+33	49.65	7.33	0.81	2.99
* ENTIRE PROJECT TEMPORARY DRIVES									900.00
SUBTOTALS (BOX 1 OF 2):						**3959.97**	**1694.41**	**186.39**	**691.87**
SUBTOTALS (BOX 2 OF 2):						**1188.53**	**624.85**	**68.75**	**1155.14**
TOTALS:						**5148.50**	**2319.26**	**255.14**	**1847.01**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.0% MIN. AGGR.....6.0% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

* QUANTITIY ESTIMATED
SEE SECTION 104.03 OF THE STANDARD SPECS. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.
** FOR INFORMATION ONLY

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.

STATE OF ARKANSAS
★ ★ ★
REGISTERED PROFESSIONAL ENGINEER
No. 15560
12-20-2023
JEROME PAUL DAVIS

SELECTED PIPE BEDDING

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

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

JOINT TAPE (36")

DESCRIPTION	LIN. FT.
ENTIRE PROJECT - TO BE USED IF AND WHERE	9100
DIRECTED BY THE ENGINEER	
TOTAL:	**9100**

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

CONCRETE BASE

STATION	STATION	LOCATION	LENGTH	TACK COAT				PORTLAND CEMENT CONCRETE BASE			
				AVG. WID.	SQ.YD.	GALLONS / SQ.YD.	GALLON	AVG. WID.	6 1/2" U.T.	AVG. WID.	5" U.T.
			FEET	FEET				FEET	SQ.YD.	FEET	SQ.YD.
11+90.00	12+90.00	HWY. 71B WIDENING LT. & RT.	100.00	2.43	27.00	0.17	4.59	2.43	27.00	7.43	82.63
40+83.09	45+62.68	HWY. 71B WIDENING RT.	479.59	1.03	54.89	0.17	9.33	1.84	54.89	5.24	152.65
40+97.62	45+62.68	HWY. 71B WIDENING LT.	465.06	0.84	43.41	0.17	7.38	1.84	43.41	5.24	131.17
62+79.89	66+30.15	HWY. 71B WIDENING RT.	350.26	2.72	105.86	0.17	18.00	2.70	105.86	5.20	202.88
74+00.00	75+00.00	HWY. 71B WIDENING LT. & RT.	100.00	2.87	31.89	0.17	5.42	2.82	31.89	7.79	87.45
6+00.00	6+61.39	DIXIELAND ROAD WIDENING LT. & RT.	61.39	3.69	25.17	0.17	4.28	3.69	25.17	7.96	54.27
13+22.66	13+80.00	DIXIELAND ROAD WIDENING LT. & RT.	57.34	3.13	19.94	0.17	3.39	3.13	19.94	7.94	47.40
		15TH STREET WIDENING LT. & RT.		VAR.	4.57	0.17	0.78	VAR.	4.57	VAR.	12.17
		14TH PLACE WIDENING LT. & RT.		VAR.	6.91	0.17	1.17	VAR.	6.91	VAR.	16.20
		14TH STREET WIDENING LT. & RT.		VAR.	6.16	0.17	1.05	VAR.	6.16	VAR.	14.14
13+55.00	14+72.00	13TH STREET WIDENING LT. & RT.	117.00	3.65	47.45	0.17	8.07	3.65	47.45	9.71	126.23
15+28.00	17+20.00	13TH STREET WIDENING LT. & RT.	192.00	1.46	31.15	0.17	5.30	1.46	31.15	7.18	153.12
		12TH PLACE WIDENING LT. & RT.		VAR.	10.55	0.17	1.79	VAR.	10.55	VAR.	29.20
		11TH PLACE WIDENING LT. & RT.		VAR.	1.49	0.17	0.25	VAR.	1.49	VAR.	8.41
		11TH STREET WIDENING LT. & RT.		VAR.	5.97	0.17	1.01	VAR.	5.97	VAR.	12.43
		10TH STREET WIDENING LT. & RT.		VAR.	6.70	0.17	1.14	VAR.	6.70	VAR.	13.62
		9TH STREET WIDENING LT. & RT.		VAR.	5.25	0.17	0.89	VAR.	5.25	VAR.	12.63
		HWY. 94 WIDENING LT. & RT.		VAR.	27.23	0.17	4.63	VAR.	27.23	VAR.	85.06
		CHESTNUT STREET WIDENING LT. & RT.		VAR.	9.00	0.17	1.53	VAR.	9.00	VAR.	25.37
		WALNUT STREET WIDENING LT. & RT.		VAR.	19.38	0.17	3.29	VAR.	19.38	VAR.	57.97
* ENTIRE PROJECT		TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			50.00	0.17	8.50	VAR.	50.00	VAR.	135.00
TOTALS:					**539.97**		**91.79**		**539.97**		**1460.00**

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

QUANTITIES

USER: jc5296
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\quantities\090338.QTY.dgn MODEL: QUANTITIES
PLOTTED: 12/20/2023 10:16 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	64	320
		QUANTITIES				

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH	WIDTH "W"	"B"	CONC. DITCH PAVING (TYPE A)	CONC. DITCH PAVING (TYPE SPECIAL)	SOLID SODDING	WATER
			FT.			SQ.YD.			M.GAL.
30+85	30+85	HWY. 71B RT. - CONC. FLUME	9	5.0	4.0		5	4	0.05
32+65	32+86	HWY. 71B RT. - CONC. FLUME	24	5.0	4.0		13	11	0.14
34+26	34+38	HWY. 71B RT.	12	10.0	5.0	13		5	0.06
34+58	34+58	HWY. 71B LT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
35+15	35+15	HWY. 71B RT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
38+79	38+79	HWY. 71B LT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
41+05	41+10	HWY. 71B RT. - CONC. FLUME	9	5.0	4.0		5	4	0.05
46+80	46+80	HWY. 71B LT. - CONC. FLUME	10	5.0	4.0		6	4	0.05
47+57	47+57	HWY. 71B RT. - CONC. FLUME	3	5.0	4.0		2	1	0.01
48+35	48+35	HWY. 71B LT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
48+51	48+51	HWY. 71B RT. - CONC. FLUME	7	5.0	4.0		4	3	0.04
51+27	51+27	HWY. 71B LT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
52+08	52+08	HWY. 71B RT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
52+60	52+60	HWY. 71B RT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
57+12	57+12	HWY. 71B RT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
57+62	57+69	HWY. 71B RT. - CONC. FLUME	6	5.0	4.0		3	3	0.04
59+44	59+44	HWY. 71B RT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
60+27	60+27	HWY. 71B LT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
62+13	62+13	HWY. 71B RT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
63+63	63+63	HWY. 71B RT. - CONC. FLUME	5	13.0	12.0		7	2	0.03
66+20	66+43	HWY. 71B LT. - CONC. FLUME	24	4.0	3.0		11	11	0.14
14+36	14+40	13TH ST. LT. - CONC. FLUME	5	5.0	4.0		3	2	0.03
16+80	16+80	13TH ST. RT. - CONC. FLUME	3	5.0	4.0		2	1	0.01
* ENTIRE PROJECT		TO BE USED IF AND WHERE				50	50		
		DIRECTED BY THE ENGINEER							
TOTALS:						63	144	73	0.98

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

MAILBOXES

LOCATION	MAILBOXES	MAILBOX SUPPORTS (SINGLE)
	EACH	
HWY. 71B 24+32 RT.	1	1
HWY. 71B 24+76 RT.	1	1
TOTALS:	2	2

CONCRETE ISLANDS

STATION	STATION	LOCATION	CURB FACE TYPE	CONCRETE ISLANDS SQ.YD.
69+18	69+42	HWY. 71B ON LT.	"A"	45
69+23	70+36	HWY. 71B ON RT.	"A"	43
70+17	70+50	HWY. 71B ON LT.	"A"	58
TOTAL:				146

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
11+90.00	75+00.00	HWY. 71B	6199	1618
6+00.00	13+80.00	DIXIELAND ROAD	1063	261
13+55.00	17+20.00	13TH STREET	71	73
15+82.00	19+35.00	HWY. 94	516	43
5+97.00	10+31.00	WALNUT STREET	370	111
ENTIRE PROJECT		DRIVEWAYS	670	255
TOTALS:			8889	2361

EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

CONCRETE COMBINATION CURB AND GUTTER (TYPE A)

STATION	STATION	SIDE	DESCRIPTION	CONC. COMB. CURB AND GUTTER (TYPE A) (1'6")	CONC. COMB. CURB AND GUTTER (TYPE A) (2'0")
				LIN.FT.	LIN.FT.
11+90	16+61	LT.	HWY. 71B	481	
11+90	16+62	RT.	HWY. 71B	468	
17+37	33+89	LT.	HWY. 71B	1616	
17+38	30+14	RT.	HWY. 71B	1218	
30+35	43+09	RT.	HWY. 71B	1246	
34+25	36+43	LT.	HWY. 71B	241	
36+71	43+03	LT.	HWY. 71B	589	
43+47	58+00	RT.	HWY. 71B	1464	
43+49	49+30	LT.	HWY. 71B	579	
49+58	56+25	LT.	HWY. 71B	671	
56+49	59+76	LT.	HWY. 71B	344	
58+23	75+00	RT.	HWY. 71B	1475	
60+00	65+81	LT.	HWY. 71B	585	
64+35	64+78	LT.	HWY. 71B - IN PARKING		44
65+04	65+15	LT.	HWY. 71B - IN PARKING		18
66+06	69+21	LT.	HWY. 71B	338	
71+15	75+00	LT.	HWY. 71B	386	
6+00	9+19	LT.	DIXIELAND RD.	302	
6+00	9+19	RT.	DIXIELAND RD.	293	
10+81	13+80	LT.	DIXIELAND RD.	298	
10+81	12+94	RT.	DIXIELAND RD.	191	
13+55	14+21	LT.	13TH ST.	49	
13+55	14+44	RT.	13TH ST.	47	
15+79	17+20	LT.	13TH ST.	129	
15+79	17+20	RT.	13TH ST.	132	
15+72	18+94	RT.	S.H. 94 (8TH ST.)	318	
16+05	18+22	LT.	S.H. 94 (8TH ST.)	230	
18+48	19+55	LT.	S.H. 94 (8TH ST.)	134	
21+43	21+79	LT.	S.H. 94 (8TH ST.)	36	
5+28	10+34	LT.	W. WALNUT ST.	499	
5+56	10+21	RT	W. WALNUT ST.	475	
TOTALS:				14834	62

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FT.	SQ.YD.
11+90	12+90	HWY. 71B	56	622
12+90	74+00	HWY. 71B	14	9504
74+00	75+00	HWY. 71B	50	556
6+00	6+50	DIXIELAND RD.	40	222
13+30	13+80	DIXIELAND RD.	41	228
		15TH STREET	VAR.	118
		14TH PLACE	VAR.	172
		14TH STREET	VAR.	143
13+55	14+05	13TH ST.	33	183
16+70	17+20	13TH ST.	42	233
		12TH PLACE	VAR.	145
		11TH PLACE	VAR.	128
		11TH STREET	VAR.	125
		10TH STREET	VAR.	127
		9TH STREET	VAR.	132
18+85	19+35	S.H. 94	51	283
9+71	10+21	WALNUT ST.	43	239
ENTIRE	PROJECT	TO BE USED IF AND WHERE		
		DIRECTED BY THE ENGINEER		1000
TOTAL:				14160

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

SOIL STABILIZATION

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

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

CONCRETE CURB (TYPE D)

STATION	STATION	SIDE	DESCRIPTION	CONC. CURB (TYPE D) (6")
				LIN.FT.
11+90	13+54	LT.	HWY. 71B	164
17+82	20+10	RT.	HWY. 71B	230
21+01	21+64	RT.	HWY. 71B	64
22+81	23+63	LT.	HWY. 71B	82
25+95	26+40	LT.	HWY. 71B	45
30+81	31+13	RT.	HWY. 71B	25
31+17	31+54	RT.	HWY. 71B	37
31+61	31+99	RT.	HWY. 71B	38
32+26	32+51	LT.	HWY. 71B	25
32+57	33+56	LT.	HWY. 71B	99
32+85	33+25	RT.	HWY. 71B	40
34+34	34+55	LT.	HWY. 71B	28
34+61	35+26	LT.	HWY. 71B	65
35+10	35+11	RT.	HWY. 71B	1
35+18	35+42	RT.	HWY. 71B	24
35+44	36+37	LT.	HWY. 71B	100
36+76	37+08	LT.	HWY. 71B	36
37+97	38+92	RT.	HWY. 71B	95
38+83	39+15	LT.	HWY. 71B	32
39+42	40+13	RT.	HWY. 71B	71
39+99	40+38	LT.	HWY. 71B	39
40+43	40+63	RT.	HWY. 71B	26
41+04	41+07	RT.	HWY. 71B	3
41+13	42+86	RT.	HWY. 71B	176
41+55	42+88	LT.	HWY. 71B	158
43+85	45+88	LT.	HWY. 71B	211
46+15	46+35	LT.	HWY. 71B	27
47+25	47+53	RT.	HWY. 71B	29
47+61	48+48	RT.	HWY. 71B	88
48+19	49+10	LT.	HWY. 71B	91
48+55	49+97	RT.	HWY. 71B	142
50+42	50+45	RT.	HWY. 71B	4
50+93	51+64	RT.	HWY. 71B	72
51+06	51+23	LT.	HWY. 71B	18
51+31	51+67	LT.	HWY. 71B	36
52+03	52+04	RT.	HWY. 71B	1
52+12	52+56	RT.	HWY. 71B	44
53+12	53+13	LT.	HWY. 71B	19
52+64	53+51	RT.	HWY. 71B	93
53+37	54+54	LT.	HWY. 71B	128
53+77	55+17	RT.	HWY. 71B	140
54+78	56+12	LT.	HWY. 71B	152
55+35	55+60	RT.	HWY. 71B	30
55+66	56+02	RT.	HWY. 71B	41
56+20	56+42	RT.	HWY. 71B	27
56+46	56+66	RT.	HWY. 71B	25
56+84	57+08	RT.	HWY. 71B	26
57+16	57+62	RT.	HWY. 71B	28
57+47	57+62	LT.	HWY. 71B	15
57+69	57+95	RT.	HWY. 71B	95
57+98	58+15	LT.	HWY. 71B	17
58+23	58+48	LT.	HWY. 71B	25
58+36	59+66	RT.	HWY. 71B	125
58+53	59+48	LT.	HWY. 71B	95
60+07	60+30	LT.	HWY. 71B	37
60+38	61+70	LT.	HWY. 71B	139
61+43	62+09	RT.	HWY. 71B	66
61+90	62+32	LT.	HWY. 71B	53
62+17	63+55	RT.	HWY. 71B	138
62+79	63+28	LT.	HWY. 71B	51
63+56	64+18	LT.	HWY. 71B	65
63+71	64+19	RT.	HWY. 71B	48
65+41	65+64	LT.	HWY. 71B	42
66+20	67+55	LT.	HWY. 71B	146
67+85	68+85	LT.	HWY. 71B	100
71+88	73+41	LT.	HWY. 71B	154
74+65	74+88	LT.	HWY. 71B	23
6+32	6+79	RT.	DIXIELAND RD.	47
13+83	14+35	LT.	13TH ST.	58
15+55	16+60	LT.	13TH ST.	112
15+59	16+77	RT.	13TH ST.	122
16+85	17+25	RT.	13TH ST.	42
16+90	17+25	LT.	13TH ST.	38
15+71	16+54	LT.	S.H. 94 (8TH ST.)	93
16+60	17+10	RT.	S.H. 94 (8TH ST.)	50
17+50	18+40	RT.	S.H. 94 (8TH ST.)	88
17+85	18+03	LT.	S.H. 94 (8TH ST.)	20
18+72	19+00	LT.	S.H. 94 (8TH ST.)	30
TOTAL:				5309

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
6-19-2023

QUANTITIES

USER: JJ5206
DESIGN FILE: G:\ll06100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 6/19/2023 14:42
SCALE: 1=10
MODEL: QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	65	320
		QUANTITIES				

CONCRETE WALKS (BOX 1 OF 2)

STATION	STATION	SIDE	DESCRIPTION	LENGTH	NHPP-9373(19) CONCRETE WALKS	NHPP-TAPU-9373(19) CONCRETE WALKS	NHPP-9373(19) CONCRETE WALKS (TYPE SPECIAL)	NHPP-TAPU-9373(19) CONCRETE WALKS (TYPE SPECIAL)
				LIN.FT.	SQ.YD.	SQ.YD.	SQ.YD.	SQ.YD.
11+90	13+48	LT.	HWY. 71B	158	88	18		
14+02	16+12	LT.	HWY. 71B	210	116	23		
16+12		LT.	HWY. 71B RADIUS ON LEFT		32	6		
17+80		LT.	HWY. 71B RADIUS ON LEFT		28	6		
17+80	18+49	LT.	HWY. 71B	69			38	8
18+49	19+28	LT.	HWY. 71B	79	44	9		
19+84	20+74	LT.	HWY. 71B	90	50	10		
21+28	22+35	LT.	HWY. 71B	107	59	12		
22+85	24+63	LT.	HWY. 71B	178	99	20		
25+43	25+53	LT.	HWY. 71B	10	6	1		
25+93	26+50	LT.	HWY. 71B	57	31	6		
26+98	27+96	LT.	HWY. 71B	97	54	11		
28+59	28+95	LT.	HWY. 71B	36	20	4		
29+45	30+66	LT.	HWY. 71B	121	67	13		
31+16	31+53	LT.	HWY. 71B	37	20	4		
32+10	33+65	LT.	HWY. 71B	155	86	17		
34+40		LT.	HWY. 71B TO SIDE STREET		19	4		
34+55	36+19	LT.	HWY. 71B	164	91	18		
36+27		LT.	HWY. 71B TO SIDE STREET		16	3		
37+00		LT.	HWY. 71B TO SIDE STREET		20	4		
37+03	38+06	LT.	HWY. 71B	103	57	11		
38+58	39+01	LT.	HWY. 71B	43	24	5		
39+65	41+01	LT.	HWY. 71B	136	76	15		
41+69	42+44	LT.	HWY. 71B	75	42	8		
42+82		LT.	HWY. 71B TO SIDE STREET		39	8		
43+68		LT.	HWY. 71B TO SIDE STREET		32	6		
43+95	45+73	LT.	HWY. 71B	178	99	20		
46+28	46+83	LT.	HWY. 71B	55	30	6		
47+43	47+78	LT.	HWY. 71B	35	19	4		
48+32	49+05	LT.	HWY. 71B	73	40	8		
49+83	50+58	LT.	HWY. 71B	75	42	8		
51+05	51+78	LT.	HWY. 71B	73	40	8		
52+29	53+37	LT.	HWY. 71B	108	60	12		
53+51	54+40	LT.	HWY. 71B	89	49	10		
54+93	56+01	LT.	HWY. 71B	108	60	12		
56+65	58+11	LT.	HWY. 71B	146	81	16		
58+60	59+53	LT.	HWY. 71B	93	51	10		
60+24	61+56	LT.	HWY. 71B	132	73	15		
62+04	62+18	LT.	HWY. 71B	14	8	2		
62+72	63+17	LT.	HWY. 71B	45	25	5		
63+71	65+01	LT.	HWY. 71B	132	73	15		
65+64		LT.	HWY. 71B TO SIDE STREET		17	3		
66+31	67+41	LT.	HWY. 71B	110	61	12		
67+99	68+67	LT.	HWY. 71B	68	38	8		
69+00		LT.	HWY. 71B RADIUS ON LEFT		62	12		
71+00		LT.	HWY. 71B RADIUS ON LEFT		98	20		
72+01	73+28	LT.	HWY. 71B	127	70	14		
73+95	75+00	LT.	HWY. 71B	105	58	12		
12+32	12+50	RT.	HWY. 71B	18	10	2		
13+03	13+73	RT.	HWY. 71B	70	39	8		
14+25	14+99	RT.	HWY. 71B	74	41	8		
15+51	16+12	RT.	HWY. 71B	61	34	7		
16+12		RT.	HWY. 71B RADIUS ON RIGHT		34	7		
18+00		RT.	HWY. 71B RADIUS ON RIGHT		42	8		
18+42	19+97	RT.	HWY. 71B	155	86	17		
20+65	21+56	RT.	HWY. 71B	91	51	10		
22+04	22+36	RT.	HWY. 71B	32	18	4		
23+14	24+27	RT.	HWY. 71B	113	63	13		
25+05	25+64	RT.	HWY. 71B	59	33	7		
26+04	26+33	RT.	HWY. 71B	29	16	3		
27+04	27+50	RT.	HWY. 71B	46	26	5		
27+96	29+90	RT.	HWY. 71B	194	108	22		
30+08		RT.	HWY. 71B RADIUS ON RIGHT		16	3		
30+49		RT.	HWY. 71B RADIUS ON RIGHT		15	3		
30+59	31+90	RT.	HWY. 71B	131	73	15		
32+45	33+41	RT.	HWY. 71B	96	53	11		
34+07	35+64	RT.	HWY. 71B	157	87	17		
36+26	36+60	RT.	HWY. 71B	34	19	4		
37+04	37+29	RT.	HWY. 71B	25	14	3		
37+83	38+79	RT.	HWY. 71B	96	54	11		
39+38	40+49	RT.	HWY. 71B	111	61	12		
41+07	42+99	RT.	HWY. 71B	190	106	21		
43+00		RT.	HWY. 71B RADIUS ON RIGHT		72	14		
43+72		RT.	HWY. 71B RADIUS ON RIGHT		33	7		
43+92	50+10	RT.	HWY. 71B	631	351	70		
50+83	53+38	RT.	HWY. 71B	254	141	28		
53+91	55+03	RT.	HWY. 71B	112	62	12		
SUBTOTALS (BOX 1 OF 2):					4128	826	38	8

HAND RAILING

STATION	STATION	LOCATION	LIN.FT.
17+80	18+42	HWY. 71B LT.	62
8+17	9+47	DIXIELAND RD. RT.	146
TOTAL:			208

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-22-2023

CONCRETE WALKS (BOX 2 OF 2)

STATION	STATION	SIDE	DESCRIPTION	LENGTH	NHPP-9373(19) CONCRETE WALKS	NHPP-TAPU-9373(19) CONCRETE WALKS	NHPP-9373(19) CONCRETE WALKS (TYPE SPECIAL)	NHPP-TAPU-9373(19) CONCRETE WALKS (TYPE SPECIAL)
				LIN.FT.	SQ.YD.	SQ.YD.	SQ.YD.	SQ.YD.
55+49	55+88	RT.	HWY. 71B	39	22	4		
56+34	56+52	RT.	HWY. 71B	18	10	2		
56+98	57+69	RT.	HWY. 71B	68	40	8		
57+82		RT.	HWY. 71B RADIUS ON RIGHT		18	4		
58+48	60+83	RT.	HWY. 71B	235	131	26		
61+44	64+21	RT.	HWY. 71B	277	154	31		
64+89	68+43	RT.	HWY. 71B	354	197	39		
70+50		RT.	HWY. 71B RADIUS ON RIGHT		108	22		
71+53	72+34	RT.	HWY. 71B	81	45	9		
72+87	74+49	RT.	HWY. 71B	183	102	20		
6+26	6+35	LT.	DIXIELAND RD.	10	5	1		
6+75	7+65	LT.	DIXIELAND RD.	90	50	10		
8+29	9+19	LT.	DIXIELAND RD.	90	50	10		
10+79	12+97	LT.	DIXIELAND RD.	218	121	24		
13+61	13+81	LT.	DIXIELAND RD.	20	11	2		
6+37	6+65	RT.	DIXIELAND RD.	28	15	3		
7+25	7+45	RT.	DIXIELAND RD.	20	11	2		
8+04	8+17	RT.	DIXIELAND RD.	12	6	1		
8+17	9+45	RT.	DIXIELAND RD. - TURNED DOWN EDGE	157			87	17
10+78	12+74	RT.	DIXIELAND RD.	196	109	22		
13+49	13+55	LT.	13TH ST.	6	4	1		
15+74	17+20	LT.	13TH ST.	146	81	16		
13+00	13+99	RT.	13TH ST.	99	55	55		
15+73	17+20	RT.	13TH ST.	146	81	81		
17+00	18+23	LT.	S.H. 94 (8TH ST.)	123	68	14		
18+68	19+83	LT.	S.H. 94 (8TH ST.)	115	64	13		
15+57	16+95	RT.	S.H. 94 (8TH ST.)	138	77	15		
17+68	19+21	RT.	S.H. 94 (8TH ST.)	53	30	6		
5+53		LT.	W. WALNUT ST. RADIUS ON LEFT		24	5		
5+71	8+12	LT.	W. WALNUT ST.	274	152	30		
8+70	10+35	LT.	W. WALNUT ST.	165	92	18		
7+12	7+89	RT.	W. WALNUT ST. INCL. SIDE WALK	86	48	10		
8+33	10+21	RT.	W. WALNUT ST.	188	104	21		
SUBTOTALS (BOX 1OF 2):					4128	826	38	8
SUBTOTALS (BOX 2 OF 2):					2085	525	87	17
TOTALS:					6213	1351	125	25

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC

LOCATION	TON
ENTIRE PROJECT - TO BE USED IF AND WHERE	
DIRECTED BY THE ENGINEER	40
TOTAL:	40

NOTE: QUANTITIES ARE ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

ACHM PATCHING OF EXISTING ROADWAY

DESCRIPTION	TON
ENTIRE PROJECT - TO BE USED IF AND WHERE	40
DIRECTED BY THE ENGINEER	
TOTAL:	40

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

QUANTITIES

USER: JJ5206
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 5/22/2023 15:57
SCALE: 1:1
MODEL: QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	66	320
		QUANTITIES				

REMOVAL AND RELOCATION OF SIGN (9030)

STATION	LOCATION	EACH
14+64	HWY. 71B - ROGERS WAYFARING SIGN ON RT.	1
19+15	HWY. 71B - ROGERS WAYFARING SIGN ON LT.	1
67+32	HWY. 71B - ROGERS WAYFARING SIGN ON RT.	1
72+93	HWY. 71B - ROGERS WAYFARING SIGN ON LT.	1
17+05	HWY. 94 - ROGERS WAYFARING SIGN ON LT.	1
18+58	HWY. 94 - ROGERS WAYFARING SIGN ON LT.	1
6+70	WALNUT ST - ROGERS WAYFARING SIGN ON LT.	1
7+75	WALNUT ST - ROGERS WAYFARING SIGN ON LT.	1
TOTAL:		8

INLAID PREFORMED THERMOPLASTIC ASPHALT PAVEMENT MARKING SYSTEM (9030)

STATION	LOCATION	LENGTH	WIDTH	RADIUS	AREA
		FT.	FT.	FT.	SQ.YD.
16+20	HWY. 71B CROSSWALK	76	10		84
17+00	HWY. 71B\DIXIELAND RD.			34	404
17+72	HWY. 71B CROSSWALK	80	10		89
9+29	DIXIELAND RD. CROSSWALK	80	10		89
12+70	DIXIELAND RD. CROSSWALK	80	10		89
42+55	HWY. 71B CROSSWALK	56	10		62
43+27	HWY. 71B\13TH STREET			34	404
14+58	13TH ST. CROSSWALK	62	10		69
15+66	13TH ST. CROSSWALK	51	10		57
43+86	HWY. 71B CROSSWALK	58	10		64
69+37	HWY. 71B CROSSWALK	72	10		80
69+28	HWY. 71B CROSSWALK RT.	21	10		23
69+21	HWY. 71B CROSSWALK LT.	21	10		23
69+84	HWY. 71B\8TH STREET			34	404
70+29	HWY. 71B CROSSWALK	72	10		80
70+43	HWY. 71B CROSSWALK LT.	20	10		22
5+56	W. WALNUT CROSSWALK	77	10		86
15+51	HWY. 94 CROSSWALK	81	10		90
TOTAL:					2219

STATE OF ARKANSAS
* * *
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-22-2023

REMOVAL, STORAGE, AND REINSTALLATION OF BUS STOP SHELTER (9030)

STATION	STATION	LOCATION	EACH
47+74		HWY. 71B - BUS STOP RT.	1
TOTAL:			1

STREETSCAPE ITEMS (9030)

DESCRIPTION	LOCATION	TREE PLANTING	SHRUB PLANTING	SITE FURNISHINGS	IRRIGATION SYSTEM	STAMPED CONCRETE	LANDSCAPE EDGING	LANDSCAPE MULCH
		EACH		LUMP SUM	STATION	SQ. YD.	LIN. FT.	CU. YD.
TREE PLANTING	71B (WALNUT ST.) LT. AND RT.	191						
SHRUB PLANTING	71B (WALNUT ST.) LT. AND RT.		517					
SITE FURNISHINGS	71B (WALNUT ST.) LT. AND RT.			1.00				
IRRIGATION SYSTEMS	71B (WALNUT ST.) LT. AND RT.				10			
STAMPED CONCRETE	INTERSECTIONS DIXIELAND, 13TH, AND 8TH					340		
LANDSCAPE EDGING	INTERSECTIONS DIXIELAND, 13TH, AND 8TH						335	
LANDSCAPE MULCH	INTERSECTIONS DIXIELAND, 13TH, AND 8TH							35
TOTALS:		**191**	**517**	**1.00**	**10**	**340**	**335**	**35**

NOTE: SEE LANDSCAPE PLANS FOR DETAILS.

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 5/22/2023 15:58
SCALE: 1:10
MODEL: QUANTITIES

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12/04/2023		6	ARK.	090338	67	320
		QUANTITIES				

BASE AND SURFACING (BOX 1 OF 2)

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE		TACK COAT				ACHM BASE COURSE (1 1/2")				ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (1/2")							
				TON / STATION	TON	AVG. WID.	SQ.YD.	GALLONS / SQ.YD.	GALLON	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 76-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 76-22	TOTAL PG 76-22
			FEET			FEET				FEET			TON	FEET			TON	FEET			TON	FEET			TON	TON
11+90.00	12+90.00	HWY. 71B WIDENING LT. & RT. - TRANSITION	100.00			58.20	646.67	0.05	32.33									2.43	27.00	220	2.97	58.20	646.67	220	71.13	74.10
12+90.00	14+60.00	HWY. 71B WIDENING LT. & RT. - TAPER	170.00			144.11	2722.08	0.05	136.10	15.67	295.97	550	81.39	64.22	1213.04	495	300.23	12.84	242.53	220	26.68	64.22	1213.04	220	133.43	160.11
14+60.00	15+57.00	HWY. 71B WIDENING LT. & RT.	97.00			101.49	1093.84	0.05	54.69	21.30	229.52	550	63.12	12.19	131.38	495	32.52	16.30	175.68	220	19.32	68.00	732.89	220	80.62	99.94
15+57.00	16+18.00	HWY. 71B WIDENING LT. & RT. - TAPER	61.00			168.52	1142.19	0.05	57.11	24.40	165.39	550	45.48	72.06	488.41	495	120.88	19.39	131.42	220	14.46	72.06	488.41	220	53.73	68.19
16+18.00	17+80.00	HWY. 71B WIDENING LT. & RT. - INTERSECTION	162.00			160.38	2886.84	0.05	144.34	10.36	186.41	550	51.26	75.01	1350.18	495	334.17	8.45	152.10	220	16.73	75.01	1350.18	220	148.52	165.25
17+80.00	18+42.00	HWY. 71B WIDENING LT. & RT. - TAPER	62.00			167.58	1154.44	0.05	57.72	23.32	160.63	550	44.17	72.13	496.90	495	122.98	18.34	126.34	220	13.90	72.13	496.90	220	54.66	68.56
18+42.00	19+30.00	HWY. 71B WIDENING LT. & RT.	88.00			157.06	1535.70	0.05	76.79	21.12	206.47	550	56.78	67.97	664.60	495	164.49	16.12	157.62	220	17.34	67.97	664.60	220	73.11	90.45
19+30.00	22+00.00	HWY. 71B WIDENING LT. & RT. - TAPER	270.00			149.73	4491.90	0.05	224.60	25.75	772.55	550	212.45	61.99	1859.70	495	460.28	20.75	622.50	220	68.48	61.99	1859.70	220	204.57	273.05
22+00.00	40+97.62	HWY. 71B WIDENING LT.	1897.62			67.12	14152.03	0.05	707.60	11.12	2344.84	550	644.83	28.00	5903.71	495	1461.17	8.27	1743.70	220	191.81	28.00	5903.71	220	649.41	841.22
22+00.00	40+83.09	HWY. 71B WIDENING RT.	1883.09			66.41	13895.11	0.05	694.76	10.41	2178.72	550	599.15	28.00	5858.50	495	1449.98	7.73	1617.37	220	177.91	28.00	5858.50	220	644.44	822.35
40+83.09	45+62.68	HWY. 71B WIDENING RT.	479.59			27.87	1485.13	0.05	74.26									1.03	54.89	220	6.04	27.87	1485.13	220	163.36	169.40
40+97.62	45+62.68	HWY. 71B WIDENING LT.	465.06			28.17	1455.64	0.05	72.78									0.40	20.67	220	2.27	28.17	1455.64	220	160.12	162.39
45+62.68	64+50.03	HWY. 71B WIDENING LT.	1887.35			66.54	13953.81	0.05	697.69	10.48	2197.70	550	604.37	28.03	5878.05	495	1454.82	7.41	1553.92	220	170.93	28.03	5878.05	220	646.59	817.52
45+62.68	62+79.89	HWY. 71B WIDENING RT.	1717.21			66.91	12766.50	0.05	638.33	10.91	2080.80	550	572.22	28.00	5342.43	495	1322.25	8.22	1568.39	220	172.52	28.00	5342.43	220	587.67	760.19
62+79.89	66+30.15	HWY. 71B WIDENING RT.	350.26			27.98	1088.92	0.05	54.45									2.72	105.86	220	11.64	27.98	1088.92	220	119.78	131.42
64+50.03	67+20.00	HWY. 71B WIDENING LT. - TAPER	269.97			83.88	2516.12	0.05	125.81	15.88	476.22	550	130.96	34.00	1019.89	495	252.42	11.85	355.46	220	39.10	34.00	1019.89	220	112.19	151.29
66+30.15	67+50.00	HWY. 71B WIDENING RT. - TAPER	119.85			79.16	1054.15	0.05	52.71	11.16	148.67	550	40.88	34.00	452.77	495	112.06	8.49	113.06	220	12.44	34.00	452.77	220	49.80	62.24
67+20.00	68+06.00	HWY. 71B WIDENING LT.	86.00			101.25	967.50	0.05	48.38	21.25	203.04	550	55.84	40.00	382.22	495	94.60	18.75	179.17	220	19.71	40.00	382.22	220	42.04	61.75
67+50.00	68+25.97	HWY. 71B WIDENING RT.	75.97			92.44	780.30	0.05	39.02	12.44	104.97	550	28.87	40.00	337.64	495	83.57	9.94	83.90	220	9.23	40.00	337.64	220	37.14	46.37
68+06.00	69+29.00	HWY. 71B WIDENING LT. - INCLUDES RADIUS	123.00			154.61	2113.00	0.05	105.65	31.83	435.02	550	119.63	61.39	839.00	495	207.65	19.13	261.44	220	28.76	61.39	839.00	220	92.29	121.05
68+25.97	70+97.38	HWY. 71B WIDENING RT. - INCLUDES RADIUS	271.41			86.59	2611.27	0.05	130.56	8.39	252.94	550	69.56	39.10	1179.13	495	291.83	6.63	199.94	220	21.99	39.10	1179.13	220	129.70	151.69
70+97.38	71+53.07	HWY. 71B WIDENING RT. - TAPER	55.69			82.65	511.42	0.05	25.57	10.95	67.79	550	18.64	35.85	221.83	495	54.90	8.45	52.29	220	5.75	35.85	221.83	220	24.40	30.15
70+85.00	71+45.00	HWY. 71B WIDENING LT. - TAPER	60.00			122.12	814.13	0.05	40.71	25.82	172.15	550	47.34	48.15	321.00	495	79.45	23.23	154.87	220	17.04	48.15	321.00	220	35.31	52.35
71+53.07	72+75.00	HWY. 71B WIDENING RT.	121.93			79.24	1073.53	0.05	53.68	11.24	152.32	550	41.89	34.00	460.62	495	114.00	8.74	118.41	220	13.03	34.00	460.62	220	50.67	63.70
71+45.00	72+66.00	HWY. 71B WIDENING LT. - TAPER	121.00			99.21	1333.82	0.05	66.69	19.13	257.26	550	70.75	40.04	538.32	495	133.23	16.62	223.45	220	24.58	40.04	538.32	220	59.22	83.80
72+75.00	74+00.00	HWY. 71B WIDENING RT. - TAPER	125.00			72.67	1009.31	0.05	50.47	10.23	142.05	550	39.06	31.22	433.61	495	107.32	7.72	107.22	220	11.79	31.22	433.61	220	47.70	59.49
72+66.00	72+75.00	HWY. 71B WIDENING LT.	9.00			82.04	82.04	0.05	4.10	14.04	14.04	550	3.86	34.00	34.00	495	8.42	11.47	11.47	220	1.26	34.00	34.00	220	3.74	5.00
72+75.00	74+00.00	HWY. 71B WIDENING LT. - TAPER	125.00			73.88	1026.11	0.05	51.31	11.44	158.87	550	43.69	31.22	433.61	495	107.32	8.88	123.33	220	13.57	31.22	433.61	220	47.70	61.27
74+00.00	75+00.00	HWY. 71B WIDENING LT. & RT. - TRANSITION	100.00			52.43	582.56	0.05	29.13									2.84	31.56	220	3.47	52.43	582.56	220	64.08	67.55
5+99.94	6+43.31	DIXIELAND ROAD WIDENING LT.	43.37			22.26	107.27	0.05	5.36									2.21	10.65	220	1.17	22.26	107.27	220	11.80	12.97
5+99.94	6+61.90	DIXIELAND ROAD WIDENING RT.	61.96			22.65	155.93	0.05	7.80									2.13	14.66	220	1.61	22.65	155.93	220	17.15	18.76
6+43.31	8+10.00	DIXIELAND ROAD WIDENING LT. - TAPER	166.69			71.34	1321.30	0.05	66.07	14.28		550		28.53	528.41	495	130.78	11.74	217.44	220	23.92	28.53	528.41	220	58.13	82.05
6+61.90	8+10.00	DIXIELAND ROAD WIDENING RT. - TAPER	148.10			68.91	1133.95	0.05	56.70	9.77	264.56	550	72.75	29.57	486.59	495	120.43	7.27	119.63	220	13.16	29.57	486.59	220	53.52	66.68
8+10.00	8+56.91	DIXIELAND ROAD WIDENING LT.	46.91			86.83	452.58	0.05	22.63	18.77	160.78	550	44.21	34.03	177.37	495	43.90	16.33	85.12	220	9.36	34.03	177.37	220	19.51	28.87
8+10.00	8+58.00	DIXIELAND ROAD WIDENING RT.	48.00			81.02	432.11	0.05	21.61	12.92	97.81	550	26.90	34.05	181.60	495	44.95	10.35	55.20	220	6.07	34.05	181.60	220	19.98	26.05
8+56.91	9+18.44	DIXIELAND ROAD WIDENING LT. - TAPER	61.53			89.47	611.68	0.05	30.58	17.27	68.89	550	18.94	36.10	246.80	495	61.08	14.78	101.05	220	11.12	36.10	246.80	220	27.15	38.27
8+58.00	9+18.44	DIXIELAND ROAD WIDENING RT. - TAPER	60.44			87.05	584.59	0.05	29.23	14.95	118.06	550	32.47	36.05	242.10	495	59.92	12.44	83.54	220	9.19	36.05	242.10	220	26.63	35.82
9+18.44	9+60.00	DIXIELAND ROAD WIDENING RT. AND LT.	41.56			247.97	1145.07	0.05	57.25	45.21	100.43	550	27.62	101.38	468.15	495	115.87	41.05	189.56	220	20.85	101.38	468.15	220	51.50	72.35
10+40.00	10+82.51	DIXIELAND ROAD WIDENING LT.	42.51			120.82	570.67	0.05	28.53	19.40	208.75	550	57.41	50.71	239.52	495	59.28	17.62	83.23	220	9.16	50.71	239.52	220	26.35	35.51
10+40.00	10+80.55	DIXIELAND ROAD WIDENING RT.	40.55			132.32	596.18	0.05	29.81	30.30	91.63	550	25.20	51.01	229.83	495	56.88	28.19	127.01	220	13.97	51.01	229.83	220	25.28	39.25
10+82.51	11+43.03	DIXIELAND ROAD WIDENING LT. - TAPER	60.52			84.11	565.59	0.05	28.28	12.25	136.51	550	37.54	35.93	241.61	495	59.80	9.74	65.50	220	7.21	35.93	241.61	220	26.58	33.79
10+80.55	11+42.03	DIXIELAND ROAD WIDENING RT. - TAPER	61.48			92.36	630.92	0.05	31.55	20.34	82.35	550	22.65	36.01	245.99	495	60.88	17.83	121.80	220	13.40	36.01	245.99	220	27.06	40.46
11+43.03	11+70.00	DIXIELAND ROAD WIDENING LT.	26.97			78.94	236.56	0.05	11.83	10.88	138.93	550	38.21	34.03	101.98	495	25.24	8.37	25.08	220	2.76	34.03	101.98	220	11.22	13.98
11+42.03	11+70.00	DIXIELAND ROAD WIDENING RT.	27.97			87.86	273.05	0.05	13.65	19.86	32.60	550	8.97	34.00	105.66	495	26.15	17.33	53.86	220	5.92	34.00	105.66	220	11.62	17.54
11+70.00	13+22.66	DIXIELAND ROAD WIDENING LT. - TAPER	152.66			67.64	1147.32	0.05	57.37	9.28	61.71	550	16.97	29.18	494.96	495	122.50	6.77	114.83	220	12.63	29.18	494.96	220	54.45	67.08
11+70.00	13+58.68	DIXIELAND ROAD WIDENING RT. - TAPER	188.68			63.67	1334.81	0.05	66.74	12.59	157.43	550	43.29	25.54	535.43	495	132.52	10.69	224.11	220	24.65	25.54	535.43	220	58.90	83.55
13+22.66	13+80.00	DIXIELAND ROAD TRANSITION LT.	57.34			22.40	142.71	0.05	7.14									1.51	9.62	220	1.06	22.40	142.71	220	15.70	16.76
13+58.68	13+80.00	DIXIELAND ROAD TRANSITION RT.	21.32			42.39	100.42	0.05	5.02									1.34	3.17	220	0.35	42.39	100.42	220	11.05	11.40
30+25.00	30+66.12	HWY. 71B, 15TH STREET WIDENING LT. & RT.	41.12			60.42	276.05	0.05	13.80	8.76		550		25.83	118.01	495	29.21	8.97	40.98	220	4.51	25.83	118.01	220	12.98	17.49
33+57.87	34+55.94	HWY. 71B, 14TH PLACE WIDENING LT. & RT.	98.07			34.92	380.51	0.05	19.03	3.40	40.03	550	11.01	15.76	171.73	495	42.50	3.66	39.88	220	4.39	15.76	171.73	220	18.89	23.28
36+12.32	37+02.24	HWY. 71B, 14TH STREET WIDENING LT. & RT.	89.92			33.21	331.80	0.05	16.59	4.57	37.02	550	10.18	14.32	143.07	495	35.41	4.89	48.86	220	5.37	14.32	143.07	220	15.74	21.11
13+55.00	14+72.00	13TH STREET WIDENING LT. & RT.	117.00			43.00	559.00	0.05	27.95									3.65	47.45	220	5.22	43.00	559.00	220	61.49	66.71
15+28.00	17+20.00	13TH STREET WIDENING LT. & RT.	192.00			50.75	1082.67	0.05	54.13									1.46	31.15	220	3.43	50.75	1082.67	220	119.09	122.52
49+11.55	49+75.96	HWY. 71B, 12TH PLACE WIDENING LT. & RT.	64.41			45.64	326.63	0.05	16.33	4.98		550		20.33	145.50	495	36.01	5.73	41.01	220	4.51	20.33	145.50	220	16.01	20.52
55+93.87	56+79.90	HWY. 71B, 11TH PLACE WIDENING LT. & RT.	86.03			31.33	299.48	0.05	14.97	4.65	35.61	550	9.79	13.34	127.52	495	31.56	4.38	41.87	220	4.61	13.34	127.52	220	14.03	18.64
57+68.98	58+54.74	HWY. 71B, 11TH STREET WIDENING LT. & RT.	85.76			31.23	297.59	0.05	14.88	5.05	44.43	550	12.22	13.09	124.73	495	30.87	5.40	51.46	220	5.66	13.09	124.73	220	13.72	19.38
59+46.05	60+31.16	HWY. 71B, 10TH STREET WIDENING LT. & RT.	85.11			31.94	302.05	0.05	15.10	5.06	48.17	550	13.25	13.44	127.10	495	31.46	5.32	50.31	220	5.53	13.44	127.10	220	13.98	19.51
65+50.96	66+38.47	HWY. 71B, 9TH STREET WIDENING LT. & RT.	87.51			31.97	310.85	0.05	15.54	4.75	46.17	550	12.70	13.61	132.33	495	32.75	5.18	50.37	220	5.54	13.61	132.33	220	14.56	20.10
SUBTOTALS (BOX 1 OF 2):							**106655.40**		**5332.81**		**15376.21**		**4228.47**		**41456.53**		**10260.49**		**12463.96**		**1371.05**		**49464.96**		**5441.19**	**6812.24**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2") .....94.0% MIN. AGGR .....6.0% ASPHALT BINDER
ACHM BINDER COURSE (1") .....95.7% MIN. AGGR .....4.3% ASPHALT BINDER
ACHM BASE COURSE (1 1/2") .....96.0% MIN. AGGR .....4.0% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
MAXIMUM NUMBER OF GYRATIONS = 205 FOR PG 76-22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-20-2023

QUANTITIES

USER: jc5296
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 12/20/2023 10:17
SCALE: 1:10
MODEL: QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12/04/2023		6	ARK.	090338	68	320
		QUANTITIES				

BASE AND SURFACING (BOX 2 OF 2)

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE		TACK COAT				ACHM BASE COURSE (1 1/2")				ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (1/2")								
				TON / STATION	TON	AVG. WID.	SQ.YD.	GALLONS / SQ.YD.	GALLON	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 76-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 76-22	TOTAL PG 76-22
			FEET			FEET				FEET			TON	FEET			TON	FEET			TON	FEET			TON	TON
15+38.58	16+04.83	HWY. 94 SURFACING LT.	66.25			39.57	291.28	0.05	14.56									18.01	132.57	220	14.58	39.57	291.28	220	32.04	46.62
15+38.96	15+71.96	HWY. 94 SURFACING RT.	33.00			122.34	448.58	0.05	22.43	25.40	93.14	550	25.61	48.47	177.72	495	43.99	21.87	80.19	220	8.82	48.47	177.72	220	19.55	28.37
16+04.83	16+59.00	HWY. 94 WIDENING LT.	54.17			107.61	647.69	0.05	32.38	10.69	64.34	550	17.69	48.46	291.68	495	72.19	8.13	48.93	220	5.38	48.46	291.68	220	32.08	37.46
15+71.96	16+32.00	HWY. 94 WIDENING RT.	60.04			91.56	610.81	0.05	30.54	19.56	130.49	550	35.88	36.00	240.16	495	59.44	17.06	113.81	220	12.52	36.00	240.16	220	26.42	38.94
16+59.00	17+65.00	HWY. 94 WIDENING LT. - TAPER	106.00			81.31	957.65	0.05	47.88	2.89	34.04	550	9.36	39.21	461.81	495	114.30	2.72	32.04	220	3.52	39.21	461.81	220	50.80	54.32
16+32.00	17+10.00	HWY. 94 WIDENING RT.	78.00			90.20	781.73	0.05	39.09	22.18	192.23	550	52.86	34.01	294.75	495	72.95	19.67	170.47	220	18.75	34.01	294.75	220	32.42	51.17
17+65.00	19+35.00	HWY. 94 SURFACING LT.	170.00			60.48	1142.40	0.05	57.12					30.24	571.20			1.01	19.08	220	2.10	30.24	571.20	220	62.83	64.93
17+10.00	18+85.00	HWY. 94 WIDENING RT. - TAPER	175.00			60.80	1182.22	0.05	59.11	16.40	318.89	550	87.69	22.20	431.67	495	106.84	13.95	271.25	220	29.84	22.20	431.67	220	47.48	77.32
18+85.00	19+35.00	HWY. 94 SURFACING RT.	50.00			51.89	288.28	0.05	14.41									1.27	7.06	220	0.78	51.89	288.28	220	31.71	32.49
18+56.00		HWY. 94, CHESTNUT STREET SURFACING	VAR.			VAR.	465.66	0.05	23.28	VAR.		550		VAR.	155.22	660	51.22	VAR.	36.46	220	4.01	VAR.	155.22	220	17.07	21.08
5+00.00	6+23.03	WALNUT STREET WIDENING RT. - INCLUDES RADIUS	123.03			161.95	2213.86	0.05	110.69	24.71	337.79	550	92.89	68.62	938.04	495	232.16	14.67	200.54	220	22.06	68.62	938.04	220	103.18	125.24
5+00.00	5+70.99	WALNUT STREET WIDENING LT. - INCLUDES RADIUS	70.99			119.37	941.56	0.05	47.08	25.07	197.75	550	54.38	47.15	371.91	495	92.05	14.91	117.61	220	12.94	47.15	371.91	220	40.91	53.85
5+70.99	6+32.03	WALNUT STREET WIDENING LT. - TAPER	61.04			105.80	717.56	0.05	35.88	21.74	147.45	550	40.55	42.03	285.06	495	70.55	21.73	147.38	220	16.21	42.03	285.06	220	31.36	47.57
6+23.03	6+83.00	WALNUT STREET WIDENING RT. - TAPER	59.97			70.47	469.57	0.05	23.48	10.49	69.90	550	19.22	29.99	199.83	495	49.46	10.49	69.90	220	7.69	29.99	199.83	220	21.98	29.67
6+32.03	7+55.00	WALNUT STREET WIDENING LT.	122.97			99.70	1362.23	0.05	68.11	19.68	268.89	550	73.94	40.01	546.67	495	135.30	19.68	268.89	220	29.58	40.01	546.67	220	60.13	89.71
6+83.00	7+55.00	WALNUT STREET WIDENING RT.	72.00			64.62	516.96	0.05	25.85	8.62	68.96	550	18.96	28.00	224.00	495	55.44	8.61	68.88	220	7.58	28.00	224.00	220	24.64	32.22
7+55.00	9+71.00	WALNUT STREET WIDENING LT. - TAPER	216.00			88.37	2120.88	0.05	106.04	12.03	288.72	550	79.40	38.17	916.08	495	226.73	12.03	288.72	220	31.76	38.17	916.08	220	100.77	132.53
7+55.00	9+45.23	WALNUT STREET WIDENING RT. - TAPER	190.23			56.68	1198.03	0.05	59.90	6.46	136.54	550	37.55	25.11	530.74	495	131.36	6.46	136.54	220	15.02	25.11	530.74	220	58.38	73.40
9+71.00	10+21.00	WALNUT STREET WIDENING LT. - TAPER	50.00			23.68	131.56	0.05	6.58									1.39	7.72	220	0.85	23.68	131.56	220	14.47	15.32
9+45.23	10+21.00	WALNUT STREET WIDENING RT. - TAPER	75.77			21.20	178.48	0.05	8.92									1.39	11.70	220	1.29	21.20	178.48	220	19.63	20.92
ADDITIONAL FOR LEVELING																										
12+90.00	75+00.00	HWY. 71B LEVELING	6210.00			45.94	31698.60	0.17	5388.76									45.94	31698.60	110	1743.42					1743.42
6+00.00	9+61.91	DIXIELAND ROAD LEVELING	361.91			42.56	1711.43	0.17	290.94									42.56	1711.43	110	94.13					94.13
10+38.06	13+80.00	DIXIELAND ROAD LEVELING	341.94			42.38	1610.16	0.17	273.73									42.38	1610.16	110	88.56					88.56
		15TH STREET LEVELING				VAR.	112.60	0.17	19.14									VAR.	112.60	110	6.19					6.19
		14TH PLACE LEVELING				VAR.	191.42	0.17	32.54									VAR.	191.42	110	10.53					10.53
		14TH STREET LEVELING				VAR.	134.53	0.17	22.87									VAR.	134.53	110	7.40					7.40
13+55.00	14+72.00	13TH STREET LEVELING	117.00			39.36	511.68	0.17	86.99									39.36	511.68	110	28.14					28.14
15+28.00	17+20.00	13TH STREET LEVELING	192.00			50.14	1069.65	0.17	181.84									50.14	1069.65	110	58.83					58.83
		12TH PLACE LEVELING				VAR.	148.51	0.17	25.25									VAR.	148.51	110	8.17					8.17
		11TH PLACE LEVELING				VAR.	121.89	0.17	20.72									VAR.	121.89	110	6.70					6.70
		11TH STREET LEVELING				VAR.	107.73	0.17	18.31									VAR.	107.73	110	5.93					5.93
		10TH PLACE LEVELING				VAR.	113.76	0.17	19.34									VAR.	113.76	110	6.26					6.26
		9TH STREET LEVELING				VAR.	127.61	0.17	21.69									VAR.	127.61	110	7.02					7.02
15+38.58	19+35.00	HWY. 94 LEVELING	396.42			52.40	2308.05	0.17	392.37									52.40	2308.05	165	190.41					190.41
5+50.35	10+21.00	WALNUT STREET LEVELING	470.65			40.40	2112.70	0.17	359.16									40.40	2112.70	275	290.50					290.50
		CHESTNUT STREET LEVELING				VAR.	118.76	0.17	20.19									VAR.	118.76	110	6.53					6.53
ADDITIONAL FOR MAINTENANCE OF TRAFFIC																										
21+51.28	26+20.50	HWY. 71B TEMP. WIDENING FOR STAGE 1B	469.22	60.69	284.75	15.20	792.46	0.05	39.62					15.20	792.46	495	196.13	12.86	670.46	220	73.75					73.75
21+16.00	26+34.00	HWY. 71B TEMP. WIDENING FOR STAGE 1C	518.00	56.39	292.10	14.23	819.02	0.05	40.95					14.23	819.02	495	202.71	13.96	803.48	220	88.38					88.38
SUBTOTALS (BOX 1 OF 2):							**106655.40**		**5332.81**		**15376.21**		**4228.47**		**41456.53**		**10260.49**		**12463.96**		**1371.05**		**49464.96**		**5441.19**	**6812.24**
SUBTOTALS (BOX 2 OF 2):					**576.85**		**60477.55**		**8087.74**		**2349.13**		**645.98**		**8248.02**		**1912.82**		**45902.76**		**2966.13**		**7526.14**		**827.85**	**3793.98**
TOTALS:					**576.85**		**167132.95**		**13420.55**		**17725.34**		**4874.45**		**49704.55**		**12173.31**		**58366.72**		**4337.18**		**56991.10**		**6269.04**	**10606.22**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2") .....94.0% MIN. AGGR .....6.0% ASPHALT BINDER
ACHM BINDER COURSE (1") .....95.7% MIN. AGGR .....4.3% ASPHALT BINDER
ACHM BASE COURSE (1 1/2") .....96.0% MIN. AGGR .....4.0% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
MAXIMUM NUMBER OF GYRATIONS = 205 FOR PG 76-22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
Jerry P. Davis
No. 15560
12-20-2023
JEROME PAUL DAVIS

QUANTITIES

USER: jd5296
DESIGN FILE: G:\110610O_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 12/20/2023 10:17
SCALE: 1:1
MODEL: QUANTITIES

USER: ap5181
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\quantities\090338_QTY.dgn
PLOTTED: 2/22/2024 12:33 SCALE: 1:10 MODEL: QUANTITIES

SUMMARY OF QUANTITIES (BOX 1 OF 3)

ITEM NUMBER	ITEM	QUANTITY (9030)	QUANTITY NHPP- 9373 (19)	QUANTITY NHPP-TAPU-9373 (19)	TOTAL QUANTITY	UNIT
201	CLEARING		27		27	STATION
201	GRUBBING		27		27	STATION
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER		20476		20476	LIN. FT.
SP & 202	REMOVAL AND DISPOSAL OF MANHOLES	7			7	EACH
202	REMOVAL AND DISPOSAL OF CHAIN LINK FENCE		10		10	LIN. FT.
202	REMOVAL AND DISPOSAL OF STEEL POSTS		2		2	EACH
202	REMOVAL AND DISPOSAL OF CONCRETE SLABS		10		10	SQ. YD.
202	REMOVAL AND DISPOSAL OF RETAINING WALLS		49		49	LIN. FT.
202	REMOVAL AND DISPOSAL OF BRICK WALLS		201		201	LIN. FT.
202	REMOVAL AND DISPOSAL OF CONCRETE ISLANDS		73		73	SQ. YD.
202	REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS		6109		6109	SQ. YD.
202	REMOVAL AND DISPOSAL OF WALKS		4306		4306	SQ. YD.
202	REMOVAL AND DISPOSAL OF SIGN FOUNDATIONS		54		54	EACH
202	REMOVAL AND DISPOSAL OF JUNCTION BOXES		3		3	EACH
202	REMOVAL AND DISPOSAL OF DROP INLETS		60		60	EACH
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS		50		50	EACH
202	REMOVAL AND DISPOSAL OF BOX CULVERTS		6		6	EACH
202	REMOVAL AND DISPOSAL OF CONCRETE DITCH PAVING		221		221	SQ. YD.
202	REMOVAL AND DISPOSAL OF PIPE RAILING		51		51	LIN. FT.
202	REMOVAL AND DISPOSAL OF LUMINAIRE POLE AND FOUNDATION		16		16	EACH
202	REMOVAL AND DISPOSAL OF SIGNS		71		71	EACH
202	REMOVAL AND DISPOSAL OF PLANTERS		1		1	EACH
202	REMOVAL AND DISPOSAL OF FLAG POLE		3		3	EACH
202	REMOVAL AND DISPOSAL OF SPRINKLER SYSTEM		2		2	EACH
SP	REMOVAL, STORAGE, AND REINSTALLATION OF BUS STOP SHELTER	1			1	EACH
SP & 202	REMOVAL AND RELOCATION OF SIGN	8			8	EACH
SS & 206	FLOWABLE SELECT MATERIAL		466		466	CU. YD.
SP, SS, & 210	UNCLASSIFIED EXCAVATION		8889		8889	CU. YD.
SP & 210	COMPACTED EMBANKMENT		2361		2361	CU. YD.
SP & 210	SOIL STABILIZATION		100		100	TON
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)		2424		2424	TON
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (5" UNIFORM THICKNESS)		1460		1460	SQ. YD.
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (6 1/2" UNIFORM THICKNESS)		540		540	SQ. YD.
SS & 401	TACK COAT		13512		13512	GAL.
SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")		4679		4679	TON
SP, SS, & 405	ASPHALT BINDER (PG 70-22) IN ACHM BASE COURSE (1 1/2")		195		195	TON
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")		11650		11650	TON
SP, SS, & 406	ASPHALT BINDER (PG 70-22) IN ACHM BINDER COURSE (1")		523		523	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")		10209		10209	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE CCURSE (1/2")		15		15	TON
SP, SS, & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE CCURSE (1/2")		636		636	TON
SP & 412	COLD MILLING ASPHALT PAVEMENT		14160		14160	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC		40		40	TON
SP, SS, & 415	ACHM PATCHING OF EXISTING ROADWAY		40		40	TON
SP, SS, & 505	PORTLAND CEMENT CONCRETE DRIVEWAY		5149		5149	SQ. YD.
601	MOBILIZATION		1.00		1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE		1		1	EACH
602	FURNISHING FIELD LABORATORY		1		1	EACH
SP, SS, & 603	MAINTENANCE OF TRAFFIC		1.00		1.00	LUMP SUM
SS & 604	SIGNS	203	825		1028	SQ. FT.
SP, SS, & 604	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE		10		10	EACH
SS & 604	BARRICADES		160		160	LIN. FT.
SS & 604	TRAFFIC DRUMS	106	400		506	EACH
SS & 604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	3566			3566	LIN. FT.
SS & 604	RELOCATING PRECAST CONCRETE BARRIER	6998	372		7370	LIN. FT.
604	CONSTRUCTION PAVEMENT MARKINGS		40438		40438	LIN. FT.
604	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS		14952		14952	LIN. FT.
604	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS		19475		19475	LIN. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS		22590		22590	LIN. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS (WORDS)		14		14	EACH
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS (ARROWS)		18		18	EACH
SS & 604	VERTICAL PANELS		150		150	EACH
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE A)		63		63	SQ. YD.
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE SPECIAL)		144		144	SQ. YD.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		466		466	LIN. FT.
* SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		2591		2591	LIN. FT.
* SS & 606	18" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		2591		2591	LIN. FT.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)		126		126	LIN. FT.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)		101		101	LIN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		160		160	LIN. FT.
* SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		1330		1330	LIN. FT.
* SS & 606	24" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		1330		1330	LIN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)		532		532	LIN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)		64		64	LIN. FT.
* SS & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		566		566	LIN. FT.
* SS & 606	30" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		566		566	LIN. FT.
SS & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)		98		98	LIN. FT.
SS & 606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		76		76	LIN. FT.
* SS & 606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		656		656	LIN. FT.
* SS & 606	36" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		656		656	LIN. FT.
* SS & 606	42" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		216		216	LIN. FT.
* SS & 606	42" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		216		216	LIN. FT.
SS & 606	48" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		66		66	LIN. FT.
* SS & 606	48" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		258		258	LIN. FT.
* SS & 606	48" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		258		258	LIN. FT.
SS & 606	54" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)		411		411	LIN. FT.
* SS & 606	54" REINFORCED CONCRETE PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		1,293		1293	LIN. FT.
* SS & 606	54" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 2)		1,293		1293	LIN. FT.

* DENOTES ALTERNATE BID ITEMS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PAUL DAVIS
No. 15560
2-22-2024

DATE REVISED	DATE REVISED	REVISION NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-04-2023 01-23-2024 02-12-2024		6	ARK.	090338	69	320

SUMMARY OF QUANTITIES AND REVISIONS

SUMMARY OF QUANTITIES

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SUMMARY OF QUANTITIES (BOX 2 OF 3)

	ITEM NUMBER	ITEM	QUANTITY (9030)	QUANTITY NHPP- 9373 (19)	QUANTITY NHPP-TAPU-4373 (19)	TOTAL QUANTITY	UNIT
	SS & 606	54" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)		307		307	LIN. FT.
	SS & 606	65" X 40" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS IV)		314		314	LIN. FT.
*	SS & 606	51" X 31" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		122		122	LIN. FT.
*	SS & 606	51" X 31" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL ARCH PIPE (ALTERNATE NO. 2)		122		122	LIN. FT.
	SS & 606	51" X 31" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS V)		104		104	LIN. FT.
*	SS & 606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III) (ALTERNATE NO. 1)		608		608	LIN. FT.
*	SS & 606	21" X 15" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL ARCH PIPE (ALTERNATE NO. 2)		608		608	LIN. FT.
	SS & 606	12" SIDE DRAIN		128		128	LIN. FT.
	SS & 606	54" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS		1		1	EACH
	SS & 606	SELECTED PIPE BEDDING		300		300	CU. YD.
	SP & 607	PRECAST REINFORCED CONCRETE BOX CULVERT (8' X 4')		294		294	LIN. FT.
	SP & 607	PRECAST REINFORCED CONCRETE BOX CULVERTS (6' X 4')		186		186	LIN. FT.
	SP & 607	PRECAST REINFORCED CONCRETE BOX CULVERTS (5' X 4')		864		864	LIN. FT.
	SP	RELOCATE OUTLET STRUCTURE		1		1	EACH
	SS & 609	DROP INLETS (TYPE C)		13		13	EACH
	SS & 609	DROP INLETS (TYPE C SPECIAL)		19		19	EACH
	SS & 609	DROP INLETS (TYPE MO)		67		67	EACH
	SS & 609	DROP INLETS (TYPE ST)		2		2	EACH
	SS & 609	JUNCTION BOXES (TYPE E)		6		6	EACH
	SS & 609	JUNCTION BOXES (TYPE ST)		4		4	EACH
	SS & 609	DROP INLET EXTENSIONS (4')		40		40	EACH
	SS & 609	DROP INLET EXTENSIONS (8')		38		38	EACH
	SS & 609	YARD DRAINS		4		4	EACH
	SP & 610	MANHOLES ADJUSTED TO GRADE	1			1	EACH
	SS & 615	PAVEMENT REPAIR OVER CULVERTS (ASPHALT)	2510	951		3461	TON
	620	LIME		1		1	TON
	620	SEEDING		0.56		0.56	ACRE
	SS & 620	MULCH COVER		4.80		4.80	ACRE
	SP	LANDSCAPE MULCH	35			35	CU. YD.
	620	WATER		353.6		353.6	M. GAL.
	621	TEMPORARY SEEDING		3.99		3.99	ACRE
	621	SILT FENCE		2,000		2000	LIN. FT.
	621	SAND BAG DITCH CHECKS		440		440	BAG
	621	SEDIMENT REMOVAL AND DISPOSAL		278		278	CU. YD.
	621	ROCK DITCH CHECKS		30		30	CU. YD.
	SS & 621	FILTER SOCK (8")		3063		3063	LIN. FT.
	623	SECOND SEEDING APPLICATION		0.55		0.55	ACRE
	624	SOLID SODDING		17069		17069	SQ. YD.
	SP, SS, & 632	CONCRETE ISLAND		146		146	SQ. YD.
	SP, SS, & 633	CONCRETE WALKS		6213	1351	7564	SQ. YD.
	SP, SS, & 633	CONCRETE WALKS (TYPE SPECIAL)		125	25	150	SQ. YD.
	SP	STAMPED CONCRETE	340			340	SQ. YD.
	SS & 633	HAND RAILING		208		208	LIN. FT.
	SS & 634	CONCRETE CURB (TYPE D)		5309		5309	LIN. FT.
	SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")		14834		14834	LIN. FT.
	SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (2' 0")		62		62	LIN. FT.
	635	ROADWAY CONSTRUCTION CONTROL		1.00		1.00	LUMP SUM
	637	MAILBOXES		2		2	EACH
	637	MAILBOX SUPPORTS (SINGLE)		2		2	EACH
	SS & 640	MODIFYING DROP INLETS		6		6	EACH
	SP, SS, & 641	WHEELCHAIR RAMPS (TYPE 3)		338		338	SQ. YD.
	SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)		5		5	EACH
	SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)		5		5	EACH
	SP	CELLULAR MODEM		5		5	EACH
	SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)		56		56	EACH
	SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)		12		12	EACH
	SP	RELOCATION OF TRAFFIC SIGNAL HEAD		36		36	EACH
	SP & 707	CENTRAL CONTROL UNIT		3		3	EACH
	SP & 707	POLE MOUNTED ASSEMBLY		24		24	EACH
	SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED		24		24	EACH
	708	TRAFFIC SIGNAL CABLE (5C/12 A.W.G.)		3851		3851	LIN. FT.
	708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)		8681		8681	LIN. FT.
	708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)		1785		1785	LIN. FT.
	708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)		2065		2065	LIN. FT.
	SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)		2473		2473	LIN. FT.
	SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)		660		660	LIN. FT.
	SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)		405		405	LIN. FT.
	SP	ELECTRICAL CONDUCTORS-IN-CONDUIT, COPPER (3C/6 A.W.G., E.G.C.)	21000			21000	LIN. FT.
	SP	ELECTRICAL CONDUCTORS-IN-CONDUIT, COPPER (2C/6 A.W.G., E.G.C.)	36000			36000	LIN. FT.
	SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES		2729		2729	LIN. FT.
	709	GALVANIZED STEEL CONDUIT (2")		309		309	LIN. FT.
	709	GALVANIZED STEEL CONDUIT (3")		161		161	LIN. FT.
	710	NON-METALLIC CONDUIT (2")		107		107	LIN. FT.
	710	NON-METALLIC CONDUIT (3")	21000	2045		23045	LIN. FT.
	SS & 711	CONCRETE PULL BOX (TYPE 2)		10		10	EACH
	SS & 711	CONCRETE PULL BOX (TYPE 1 HD)		8		8	EACH
	SS & 711	CONCRETE PULL BOX (TYPE 2 HD)	196	13		209	EACH
	SS & 713	SPAN WIRE ASSEMBLY		2		2	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (42')		2		2	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (44')		1		1	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (48')		1		1	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (50')		1		1	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (52')		1		1	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (54')		2		2	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (60')		1		1	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (64')		2		2	EACH
	SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (66')		1		1	EACH
	SP	LED LUMINAIRE ASSEMBLY		12		12	EACH
	SP	LED LUMINAIRE ASSEMBLY WITH 14' POLE AND FOUNDATION	121			121	EACH
	SP	LED LUMINAIRE ASSEMBLY WITH 14' POLE W/ BANNER ARMS AND FOUNDATION	51			51	EACH
	SP, SS, & 714	MAST ARM EXTENSION (5')		1		1	EACH
	SP, SS, & 714	MAST ARM EXTENSION (10')		1		1	EACH

* DENOTES ALTERNATE BID ITEMS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
PAUL DAVIS
2.22.2024

DATE REVISED	DATE REVISED	DESIGN ASSIGNMENT	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-04-2023 02-12-2024		6	ARK.	090338	70	320

SUMMARY OF QUANTITIES AND REVISIONS

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES (BOX 3 OF 3)

ITEM NUMBER	ITEM	QUANTITY 9030	QUANTITY NHPP- 9373 (19)	QUANTITY NHPP-TAPU-4373 (19)	TOTAL QUANTITY	UNIT
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION		11		11	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)		5		5	EACH
SP	PEDESTAL TYPE SERVICE POINT (100 AMP)	3			3	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT		1.00		1.00	LUMP SUM
716	TREATED WOOD POLE (CLASS 2, 45')		9		9	EACH
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (10")		288		288	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")		9991		9991	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (8")		383		383	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")		529		529	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")		18268		18268	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (12")		41		41	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (WORDS)		23		23	EACH
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)		44		44	EACH
SP	INLAID PREFORMED THERMOPLASTIC ASPHALT PAVEMENT MARKING SYSTEM	2219			2219	SQ. YD.
721	RAISED PAVEMENT MARKERS (TYPE II)		760		760	EACH
SP	18" STREET NAME SIGN		12		12	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER	2			2	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	2			2	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (RELOCATION)	6			6	EACH
SP	VIDEO DETECTOR ROTATION		8		8	EACH
SP & 733	VIDEO DETECTOR (IP)		12		12	EACH
SP & 733	HYBRID VIDEO/RADAR DETECTOR		12		12	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)		5534		5534	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)		6		6	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)		6		6	EACH
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-ROADWAY		525		525	CU. YD.
SP, SS, & 802	CLASS S CONCRETE-ROADWAY		51.10		51.10	CU. YD.
SS & 804	REINFORCING STEEL-ROADWAY (GRADE 60)		5092		5092	POUND
SP	TREE PLANTING	191			191	EACH
SP	SHRUB PLANTING	517			517	EACH
SP	SITE FURNISHINGS	1.00			1.00	LUMP SUM
SP	JOINT TAPE (36")		9100		9100	LIN. FT.
SP	IRRIGATION SYSTEM	10			10	STATION
SP	8" DUCTILE IRON PIPE WATER MAIN, CLASS 50	7266			7266	LIN. FT.
SP	6" X 6" TAPPING SLEEVE, 6" TAPPING VALVE WITH BOX	3			3	EACH
SP	8" X 8" TAPPING SLEEVE, 8" TAPPING VALVE WITH BOX	9			9	EACH
SP	12" X 12" TAPPING SLEEVE, 12" TAPPING VALVE WITH BOX	1			1	EACH
SP	8" GATE VALVE WITH BOX	24			24	EACH
SP	CUT AND CAP EXISTING WATER MAIN (4")	1			1	EACH
SP	CUT AND CAP EXISTING WATER MAIN (6")	2			2	EACH
SP	CUT AND CAP EXISTING WATER MAIN (8")	9			9	EACH
SP	4" PVC SCH 40 SEWER SERVICE	1110			1110	LIN. FT.
SP	6" PVC SDR-26 SEWER MAIN	155			155	LIN. FT.
SP	8" PVC SDR-26 SEWER MAIN	2225			2225	LIN. FT.
SP	10" PVC SDR-26 SEWER MAIN	2645			2645	LIN. FT.
SP	MANHOLE (4' DIAMETER)	30			30	EACH
SP	MANHOLE, EXTRA DEPTH, OVER 6' DEPTH (4' DIAMETER)	114			114	EACH
SP	16" STEEL CASING BY DIRECT BURY (SEWER MAIN)	96			96	LIN. FT.
SP	16" STEEL CASING BY DIRECT BURY (WATER MAIN)	230			230	LIN. FT.
SP	18" STEEL CASING BY DIRECT BURY (SEWER MAIN)	52			52	LIN. FT.
SP	TRENCH EXCAVATION (0-6 ft DEEP)	100			100	LIN. FT.
SP	TRENCH EXCAVATION (6-8 ft DEEP)	330			330	LIN. FT.
SP	TRENCH EXCAVATION (8-10 ft DEEP)	1350			1350	LIN. FT.
SP	TRENCH EXCAVATION (10-12 ft DEEP)	2225			2225	LIN. FT.
SP	TRENCH EXCAVATION (12-14 ft DEEP)	1020			1020	LIN. FT.
SP	CLASS 7 BACKFILL FOR SEWER MAIN	10223			10223	TON
SP	FILL ABANDONED SEWER MAINS WITH FLOWABLE FILL (ABANDON-IN-PLACE)	6796			6796	LIN. FT.
SP	ABANDON EXISTING MANHOLE	13			13	EACH
SP	CORE EXISTING MANHOLE AND CONNECT SEWER MAIN	2			2	EACH
SP	TRENCH SAFETY FOR SEWER MAIN	1.00			1.00	LUMP SUM
SP	ABANDON EXISTING WATER METER SETTING AND SERVICE LINE	32			32	EACH
SP	FIRE HYDRANT ASSEMBLY	18			18	EACH
SP	DUCTILE IRON FITTINGS	11965			11965	POUND
SP	CONNECT TO EXISTING 2" WATER MAIN WITH 4'x2" COMPRESSION COUPLING	1			1	EACH
SP	CONNECT TO EXISTING 3" WATER MAIN WITH 4'x3" COMPRESSION COUPLING	1			1	EACH
SP	1" COMBINATION AIR RELEASE VALVE AND ENCLOSURE	1			1	EACH
SP	1" WATER SERVICE WITH SINGLE 5/8" METER SET (NEAR SIDE OF STREET)	45			45	EACH
SP	1" WATER SERVICE WITH SINGLE 5/8" METER SET (FAR SIDE OF STREET)	17			17	EACH
SP	1" WATER SERVICE WITH DOUBLE 5/8" METER SET (FAR SIDE OF STREET)	1			1	EACH
SP	CLASS 7 BACKFILL FOR WATER MAIN	3351			3351	TON
SP	FILL ABANDONED WATER MAINS WITH FLOWABLE FILL (ABANDON-IN-PLACE)	1422			1422	LIN. FT.
SP	REMOVAL AND DISPOSAL OF CAST IRON WATER MAIN	5325			5325	LIN. FT.
SP	REMOVAL AND SALVAGE OF FIRE HYDRANT	12			12	EACH
SP	TRENCH SAFETY FOR WATER MAIN	1.00			1.00	LUMP SUM
SP	ELECTRIC SERVICE CONNECTION TO BUILDINGS	1.00			1.00	LUMP SUM
SP	2 - 2" PVC SCH 40 ELECTRICAL CONDUITS	1352			1352	LF
SP	2 - 3" PVC SCH 40 ELECTRICAL CONDUITS	551			551	LF
SP	2 - 4" PVC SCH 40 ELECTRICAL CONDUITS	4510			4510	LF
SP	2 - 6" PVC SCH 40 ELECTRICAL CONDUITS	6525			6525	LF
SP	8" CONCRETE PAD (96"X89") FOR 3-PHASE ELECTRIC TRANSFORMER	14			14	EA
SP	LANDSCAPE EDGING	335			335	LIN. FT.

REVISIONS

DATE	REVISION	SHEET NUMBER
12/4/2023	ADDED SHEET NOS. TO INDEX OF SHEETS, ADDED "SS__ CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS" TO GOVERNING SPECIFICATIONS LIST,	2, 3, 8-13, 57, 63, 67-71, 169,
	ADDED INLAID THERMOPLASTIC MARKING DETAILS TO LANDSCAPE PLANS, REVISED SUMMARY OF QUANTITIES: SIGNS, FURNISHING AND INSTALLING P.C.C.B.,	219A-219K
	RELOCATING P.C.C.B., PAVEMENT REPAIR OVER CULVERTS (ASPHALT), TEMPORARY IMPACT ATTENUATION BARRIER, TEMPORARY ATTENUATION BARRIER	
	REPAIR AND RELOCATING TEMPORARY ATTENUATION BARRIER FROM THE UTILITY PLAN SHEET. REVISED ASPHALT PERCENTAGES FOR SURFACING. REVISED	
	SURFACING QUANTITIES. ADDED MAINTENANCE OF TRAFFIC QUANTITIES TO UTILITY PLAN SHEET 169, ADDED MOT SHEETS 219-219K TO UTILITY PLANS.	
	ADDED SP "PERCENT AIR VOIDS AND NDESIGN FOR ACHM SURFACE MIX DESIGNS" , CHANGED ASPHALT PERCENTAGES FOR SURFACE COURSES, REVISED	
	SP "MAINTENANCE OF TRAFFIC". REVISED SP "PRICE ADJUSTMENT FOR FUEL". ADDED SS "409-2 ASPHALT LABORATORY FACILITY."	
1/23/2024	REMOVED SPECIAL PROVISION "SITE USE (A + C METHOD) - CALENDAR DAY CONTRACT". ADDED SPECIAL PROVISION "SITE USE (A + B + C METHOD) -	3, 69, 71
	CALENDAR DAY CONTRACT". REVISED SPECIAL PROVISION "MAINTENANCE OF TRAFFIC". ADDED SS "416-1 RECYCLED ASPHALT PAVEMENT".	
	REVISED QUANTITY "TRAFFIC DRUMS".	
2/12/2024	REVISED REVISION DATE ON STANDARD DRAWINGS SD-6, SD-7 AND SD-11. REMOVED SPECIAL PROVISONS "EDGE CARD VIDEO PROCESSOR",	2, 3, 58, 69-71, 121,122,
	"IP VIDEO DETECTION SYSTEM", AND "VIDEO DETECTION (COLOR)". ADDED SPECIAL PROVISION "HYBRID VIDEO/ RADAR DETECTION SYSTEM" AND "EXISTING WATER	124-162
	AND SEWER UTILITIES". REVISED SPECIALPROVISIONS "ACCESSIBLE PEDESTRIAN SIGNAL (APS)", "ELECTRICAL CONDUCTORS-IN-CONDUIT", "LED LUMINAIRE	
	ASSEMBLY (BUG U0)", AND "LED TRAFFIC SIGNAL HEAD". REMOVED QUANTITIES "INFRARED PROGRAMMING DEVICE", "VIDEO DETECTOR (CLR)", "VIDEO CABLE", "VIDEO	
	MONITOR (CLR)", "VIDEO PROCESSOR, EDGE CARD (2 CAMERA)", AND "VEHICLE DETECTOR RACK (16 CHANNEL)". ADDED QUANTITIES FOR HYBRID VIDEO/RADAR	
	DETECTOR AND TRAFFIC SIGNAL CABLE (5C/12 A.W.G.). REVISED QUANTITIES FOR VIDEO CABLE (EXTERIOR CAT 5E), VIDEO DETECTOR ROTATION, VIDEO	
	DETECTOR (IP), VIDEO MONITOR (CLR), AND TRAFFIC SIGNAL CABLE (5C/12 A.W.G.). REVISED TRAFFIC SIGNAL NOTES. REVISED TRAFFIC SIGNAL PLANS TO REPLACE	
	THE IP VIDEO DETECTION SYSTEM WITH HYBRID VIDEO/RADAR DETECTION SYSTEM. REVISED TOTAL QUANTITY OF "CLASS S CONCRETE - ROADWAY".	
	REMOVED QUANTITY "REMOVAL AND DISPCSAL OF BUILDING".	

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
PAUL DAVIS
2-22-2024

DATE REVISED	DATE REVISED
12-04-2023	
01-23-2024	
02-12-2024	

FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	090338	71	320

SUMMARY OF QUANTITIES AND REVISIONS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	72	320
		SURVEY CONTROL DETAILS				

CONTROL POINT DATA

ARKANSAS STATE PLANE, NORTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.

U.S. FOOT UNITS

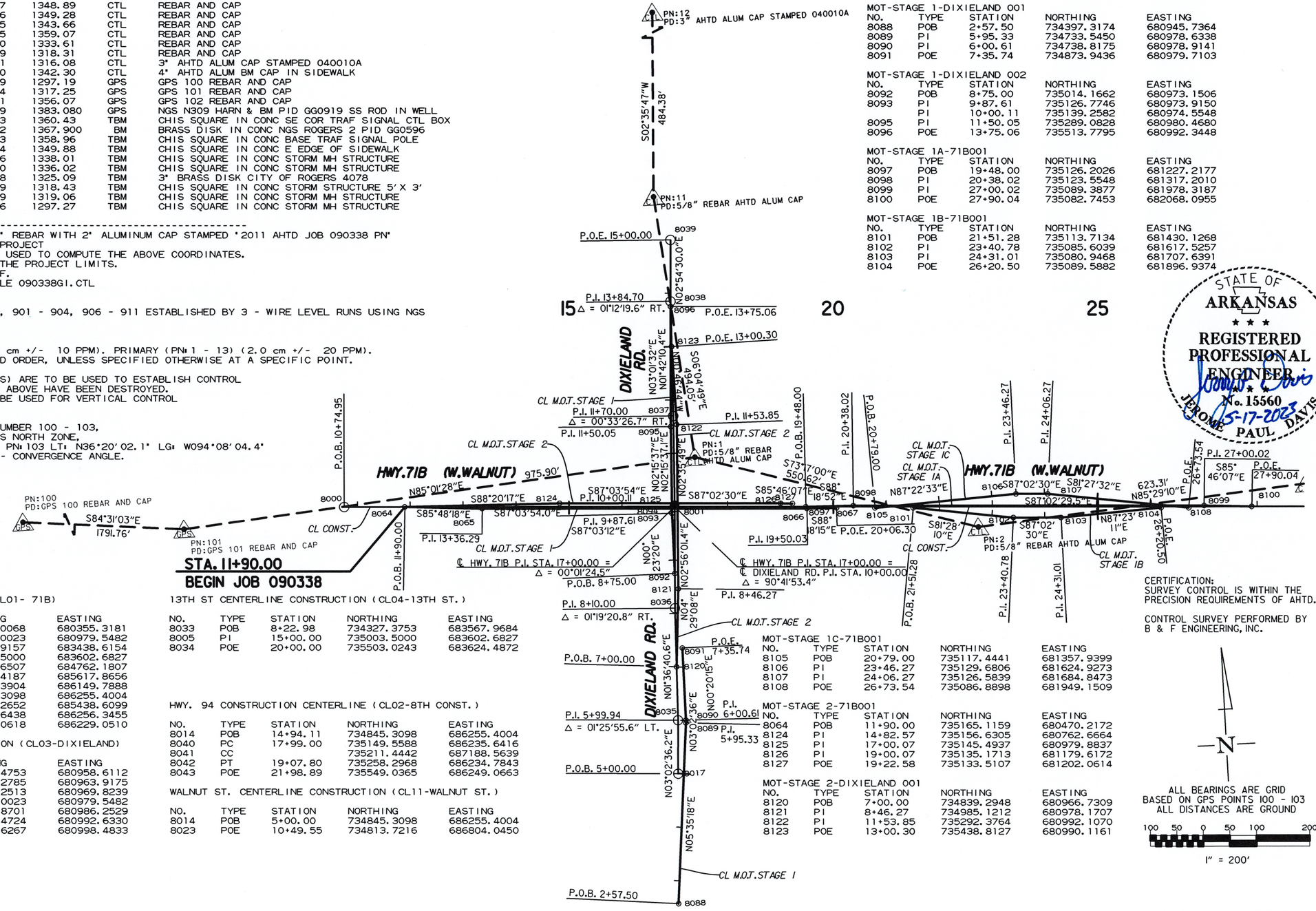
POINT	NORTHING	EASTING	ELEVATION	FEATURE	DESCRIPTION
1	735229.8435	681023.0326	1323.85	CTL	REBAR AND CAP*
2	735071.4635	681550.3799	1330.87	CTL	REBAR AND CAP
3	735120.5187	682171.7527	1332.81	CTL	REBAR AND CAP
4	734998.3355	682939.0677	1338.86	CTL	REBAR AND CAP
5	735540.8958	683597.0453	1340.54	CTL	REBAR AND CAP
6	734923.1231	684404.1477	1348.89	CTL	REBAR AND CAP
7	734963.0524	684975.4336	1349.28	CTL	REBAR AND CAP
8	734862.1792	685575.5895	1343.66	CTL	REBAR AND CAP
9	734889.6784	686300.9335	1359.07	CTL	REBAR AND CAP
10	736355.5845	683705.9540	1333.61	CTL	REBAR AND CAP
11	735721.1127	680970.7029	1318.31	CTL	REBAR AND CAP
12	736204.9953	680992.6461	1316.08	CTL	3" AHTD ALUM CAP STAMPED 040010A
13	735049.4013	683646.7920	1342.30	CTL	4" AHTD ALUM BM CAP IN SIDEWALK
100	735316.3925	678267.2379	1297.19	GPS	GPS 100 REBAR AND CAP
101	735145.2018	680050.8054	1317.25	GPS	GPS 101 REBAR AND CAP
102	733836.2449	686186.1361	1356.07	GPS	GPS 102 REBAR AND CAP
103	732036.2600	686172.9959	1383.080	GPS	NGS N309 HARN & BM PID GG0919 SS ROD IN WELL
901	734070.9987	686262.8683	1360.43	TBM	CHIS SQUARE IN CONC SE COR TRAF SIGNAL CTL BOX
902	734263.1439	688291.4152	1367.900	BM	BRASS DISK IN CONC NGS ROGERS 2 PID GG0596
903	734893.6058	686288.6573	1358.96	TBM	CHIS SQUARE IN CONC BASE TRAF SIGNAL POLE
904	734981.2115	684949.4184	1349.88	TBM	CHIS SQUARE IN CONC E EDGE OF SIDEWALK
906	735882.4248	683615.0366	1338.01	TBM	CHIS SQUARE IN CONC STORM MH STRUCTURE
907	735011.1610	682341.1100	1336.02	TBM	CHIS SQUARE IN CONC STORM MH STRUCTURE
908	735081.9774	680930.7478	1325.09	TBM	3" BRASS DISK CITY OF ROGERS 4078
909	735754.7858	681040.6319	1318.43	TBM	CHIS SQUARE IN CONC STORM STRUCTURE 5'X 3'
910	735148.0053	680135.4919	1319.06	TBM	CHIS SQUARE IN CONC STORM MH STRUCTURE
911	735309.9329	678344.4266	1297.27	TBM	CHIS SQUARE IN CONC STORM MH STRUCTURE

*NOTE - REBAR AND CAP - STANDARD 5/8" REBAR WITH 2" ALUMINUM CAP STAMPED "2011 AHTD JOB 090338 PN"
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT
A PROJECT CAF OF 0.99995783 HAS BEEN USED TO COMPUTE THE ABOVE COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE 090338G1.CTL
HORIZONTAL DATUM: NAD 83 (2007)
VERTICAL DATUM: NAVD 88
ELEVATIONS FOR PN: 1 - 13, 100 - 103, 901 - 904, 906 - 911 ESTABLISHED BY 3 - WIRE LEVEL RUNS USING NGS BENCHMARKS AND REQUIREMENTS.

POSITIONAL ACCURACY - SECOND ORDER
HORIZONTAL - GPS (PN: 100 - 103) (1.0 cm +/- 10 PPM). PRIMARY (PN: 1 - 13) (2.0 cm +/- 20 PPM).
VERTICAL - POSITIONAL ACCURACY SECOND ORDER, UNLESS SPECIFIED OTHERWISE AT A SPECIFIC POINT.

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

BASIS OF BEARING:
GRID BASED ON GPS CONTROL AT POINT NUMBER 100 - 103,
ARKANSAS STATE PLANE GRID COORDINATES NORTH ZONE,
CONVERGENCE ANGLE: 01°14'13" LEFT AT PN: 103 LT: N36°20'02.1" LG: W094°08'04.4"
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.



HWY. 71B CONSTRUCTION CENTERLINE (CL01- 71B)

NO.	TYPE	STATION	NORTHING	EASTING
8000	POB	10+74.95	735171.0068	680355.3181
8001	PI	17+00.00	735139.0023	680979.5482
8004	PI	41+62.35	735011.9157	683438.6154
8005	PI	43+26.63	735003.5000	683602.6827
8007	PI	54+87.94	734938.6507	684762.1807
8011	PI	63+45.04	734889.4187	685617.8656
8013	PI	68+78.32	734851.3904	686149.7888
8014	PC	69+84.11	734845.3098	686255.4004
8015	CC		734792.2652	685438.6099
8016	PT	70+72.82	734756.6438	686256.3455
8009	POE	77+00.00	734130.0618	686229.0510

DIXIELAND RD. CENTERLINE CONSTRUCTION (CL03-DIXIELAND)

NO.	TYPE	STATION	NORTHING	EASTING
8017	POB	5+00.00	734639.4753	680958.6112
8035	PI	5+99.94	734739.2785	680963.9175
8036	PI	8+10.00	734949.2513	680969.8239
8001	PI	10+00.00	735139.0023	680979.5482
8037	PI	11+70.00	735308.8701	680986.2529
8038	PI	13+84.70	735523.4724	680992.6330
8039	POE	15+00.00	735638.6267	680998.4833

13TH ST CENTERLINE CONSTRUCTION (CL04-13TH ST.)

NO.	TYPE	STATION	NORTHING	EASTING
8033	POB	8+22.98	734327.3753	683567.9684
8005	PI	15+00.00	735003.5000	683602.6827
8034	POE	20+00.00	735503.0243	683624.4872

HWY. 94 CONSTRUCTION CENTERLINE (CL02-8TH CONST.)

NO.	TYPE	STATION	NORTHING	EASTING
8014	POB	14+94.11	734845.3098	686255.4004
8040	PC	17+99.00	735149.5588	686235.6416
8041	CC		735211.4442	687188.5639
8042	PT	19+07.80	735258.2968	686234.7843
8043	POE	21+98.89	735549.0365	686249.0663

WALNUT ST. CENTERLINE CONSTRUCTION (CL11-WALNUT ST.)

NO.	TYPE	STATION	NORTHING	EASTING
8014	POB	5+00.00	734845.3098	686255.4004
8023	POE	10+49.55	734813.7216	686804.0450

MOT-STAGE 1-71B001

NO.	TYPE	STATION	NORTHING	EASTING
8064	POB	11+90.00	735165.1159	680470.2172
8065	PI	13+36.29	735154.4152	680616.1107
8066	PI	19+50.03	735122.8639	681229.0478
8067	POE	20+06.30	735121.1989	681285.2863

MOT-STAGE 1-DIXIELAND 001

NO.	TYPE	STATION	NORTHING	EASTING
8088	POB	2+57.50	734397.3174	680945.7364
8089	PI	5+95.33	734733.5450	680978.6338
8090	PI	6+00.61	734738.8175	680978.9141
8091	POE	7+35.74	734873.9436	680979.7103

MOT-STAGE 1-DIXIELAND 002

NO.	TYPE	STATION	NORTHING	EASTING
8092	POB	8+75.00	735014.1662	680973.1506
8093	PI	9+87.61	735126.7746	680973.9150
	PI	10+00.11	735139.2582	680974.5548
8095	PI	11+50.05	735289.0828	680980.4680
8096	POE	13+75.06	735513.7795	680992.3448

MOT-STAGE 1A-71B001

NO.	TYPE	STATION	NORTHING	EASTING
8097	POB	19+48.00	735126.2026	681227.2177
8098	PI	20+38.02	735123.5548	681317.2010
8099	PI	27+00.02	735089.3877	681978.3187
8100	POE	27+90.04	735082.7453	682068.0955

MOT-STAGE 1B-71B001

NO.	TYPE	STATION	NORTHING	EASTING
8101	POB	21+51.28	735113.7134	681430.1268
8102	PI	23+40.78	735085.6039	681617.5257
8103	PI	24+31.01	735080.9468	681707.6391
8104	POE	26+20.50	735089.5882	681896.9374

MOT-STAGE 1C-71B001

NO.	TYPE	STATION	NORTHING	EASTING
8105	POB	20+79.00	735117.4441	681357.9399
8106	PI	23+46.27	735129.6806	681624.9273
8107	PI	24+06.27	735126.5839	681684.8473
8108	POE	26+73.54	735086.8898	681949.1509

MOT-STAGE 2-71B001

NO.	TYPE	STATION	NORTHING	EASTING
8064	POB	11+90.00	735165.1159	680470.2172
8124	PI	14+82.57	735156.6305	680762.6664
8125	PI	17+00.07	735145.4937	680979.8837
8126	PI	19+00.07	735135.1713	681179.6172
8127	POE	19+22.58	735133.5107	681202.0614

MOT-STAGE 2-DIXIELAND 001

NO.	TYPE	STATION	NORTHING	EASTING
8120	POB	7+00.00	734839.2948	680966.7309
8121	PI	8+46.27	734985.1212	680978.1707
8122	PI	11+53.85	735292.3764	680992.1070
8123	POE	13+00.30	735438.8127	680990.1161

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

CERTIFICATION:
SURVEY CONTROL IS WITHIN THE PRECISION REQUIREMENTS OF AHTD.

CONTROL SURVEY PERFORMED BY B & F ENGINEERING, INC.

N

ALL BEARINGS ARE GRID
BASED ON GPS POINTS 100 - 103
ALL DISTANCES ARE GROUND

100 50 0 50 100 200

1" = 200'

SURVEY CONTROL DETAILS

DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\Survey_Ctl\090338 Survey Control.dgn MODEL: SURVEY CONTROL DETAILS
PLOTTED: 5/16/2023 16:47 SCALE: 1"=96.059

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	73	320
		SURVEY CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
N. 15560
JEROME PAUL DAVIS
5-17-2023



MOT-STAGE 1-13TH 001

NO.	TYPE	STATION	NORTHING	EASTING
8058	POB	12+00.00	734703.8946	683587.3001
8059	PI	13+23.78	734827.6228	683590.8990
8060	PI	13+40.75	734844.5742	683591.7694
8061	PI	16+59.35	735162.4008	683613.9530
8062	PI	17+00.11	735203.1209	683615.7304
8063	POE	18+95.16	735398.1242	683619.9083

MOT-STAGE 1-71B002

NO.	TYPE	STATION	NORTHING	EASTING
8068	POB	40+27.35	735016.8859	683303.6932
8069	PI	41+62.38	735006.9224	683438.3574
8070	PI	43+26.66	734998.5071	683602.4151
8071	PI	45+00.01	734988.8266	683775.5010
8072	POE	46+35.05	734984.2834	683910.4579

MOT-STAGE 2-71B002

NO.	TYPE	STATION	NORTHING	EASTING
8128	POB	39+37.00	735029.5384	683213.8765
8129	PI	41+62.06	735012.9324	683438.3185
8130	PI	44+68.06	734996.6042	683743.8860
8131	POE	46+93.11	734989.0321	683968.8141

N

ALL BEARINGS ARE GRID
BASED ON GPS POINTS 100 - 103
ALL DISTANCES ARE GROUND

100 50 0 50 100 200

1" = 200'

SURVEY CONTROL DETAILS

DESIGN FILE: G:\111061O0_WalnutSt\TRANSP\dgn\Survey_Ctl\090338 Survey Control.dgn
PLOTTED: 5/16/2023 16:47 SCALE: 1:196.059 MODEL: SURVEY CONTROL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	74	320
		SURVEY CONTROL DETAILS				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023



℄ HWY. 94/8TH ST M.O.T. STAGE 2
P.I. STA. 8+17.38
Δ = 06°31'40.9" RT.
D = 6°00'00"
T = 54.46'
L = 108.80'
P.C. STA. 7+62.92
P.T. STA. 8+71.72

℄ CONST. HWY. 94
CURVE DATA
P.I. STA. 18+53.46
Δ = 6°31'40.9" RT.
D = 6°00'00"
T = 54.46'
L = 108.80'
P.C. STA. 17+99.00
P.T. STA. 19+07.80
N.C.

℄ HWY. 94/8TH ST M.O.T. STAGE 1
CURVE DATA
P.I. STA. 6+98.89
Δ = 10°46'35.3" RT.
D = 8°00'00"
T = 67.55'
L = 134.71'
P.C. STA. 6+31.34
P.T. STA. 7+66.05

℄ CONST. HWY. 71B
CURVE DATA
P.I. STA. 70+28.51
Δ = 6°12'36.1" RT.
D = 7°00'00"
T = 44.40'
L = 88.71'
P.C. STA. 69+84.11
P.T. STA. 70+72.82

℄ HWY. 71B/8TH ST M.O.T. STAGE 1
CURVE DATA
P.I. STA. 4+62.56
Δ = 10°27'30.5" LT.
D = 8°00'00"
T = 65.55'
L = 130.73'
P.C. STA. 3+97.01
P.T. STA. 5+27.74

℄ HWY. 71B/8TH ST M.O.T. STAGE 2
P.I. STA. 4+13.80
Δ = 06°12'36.1" LT.
D = 7°03'22"
T = 44.05'
L = 88.01'
P.C. STA. 3+69.75
P.T. STA. 4+57.76

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ S.H. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

P.I. 54+87.94
Δ = 00°05'30.3" RT.

P.O.B. 64+16.36
P.I. 63+45.04
Δ = 00°47'46.8" RT.

MOT-STAGE 1-71B003

NO.	TYPE	STATION	NORTHING	EASTING
8073	POB	64+16.36	734882.3381	685688.8599
8074	PI	65+96.40	734865.5124	685868.1164
8075	PI	68+78.41	734845.4027	686149.4024
8076	PI	72+29.24	734825.2372	686499.6504
8077	POE	74+99.30	734815.7077	686769.5489

MOT-STAGE 1-8TH 001

NO.	TYPE	STATION	NORTHING	EASTING
8078	POB	0+00.00	734364.8392	686239.2781
8079	PI	0+67.52	734432.2099	686243.7143
8080	PC	3+97.01	734761.3915	686258.0538
	PI	4+62.56	734826.8770	686260.9064
8081	CC	734792.5603	685542.5351	
8082	PT	5+27.74	734891.7924	686251.8245
8083	PC	6+31.34	734994.3938	686237.4702
	PI	6+98.89	735061.2945	686228.1105
8084	CC	735093.6259	686946.7596	
8085	PT	7+66.05	735128.7653	686231.4249
8086	PI	9+87.78	735350.2339	686242.3041
8087	POE	11+22.82	735485.2185	686245.9314

MOT-STAGE 2-71B003

NO.	TYPE	STATION	NORTHING	EASTING
8132	POB	64+50.00	734887.9189	685722.9842
8133	PI	67+42.57	734873.5441	686015.2031
8134	PI	68+78.31	734863.8648	686150.5938
8135	PI	72+32.76	734843.4911	686504.4576
8136	POE	75+14.29	734814.8456	686784.5241

MOT-STAGE 2-8TH 001

NO.	TYPE	STATION	NORTHING	EASTING
8109	POB	0+00.00	734387.3179	686240.2573
8110	PI	2+92.57	734679.8236	686246.4930
8111	PC	3+69.75	734756.9266	686249.8517
	PI	4+13.80	734800.9330	686251.7686
8015	CC	734792.2652	685438.6099	
8112	PT	4+57.76	734844.8886	686248.9140
8113	PT	4+88.64	734875.7091	686246.9125
8114	PI	5+51.65	734938.5184	686241.9316
8115	PI	5+88.65	734975.4406	686239.5337
8116	PC	7+62.92	735149.5501	686232.1064
	PI	8+17.38	735203.9597	686229.7853
8117	CC	735190.2495	687186.1683	
8118	PT	8+71.72	735258.2804	686233.6651
8119	POE	9+22.00	735308.4317	686237.2471

ALL BEARINGS ARE GRID
BASED ON GPS POINTS 100 - 103
ALL DISTANCES ARE GROUND

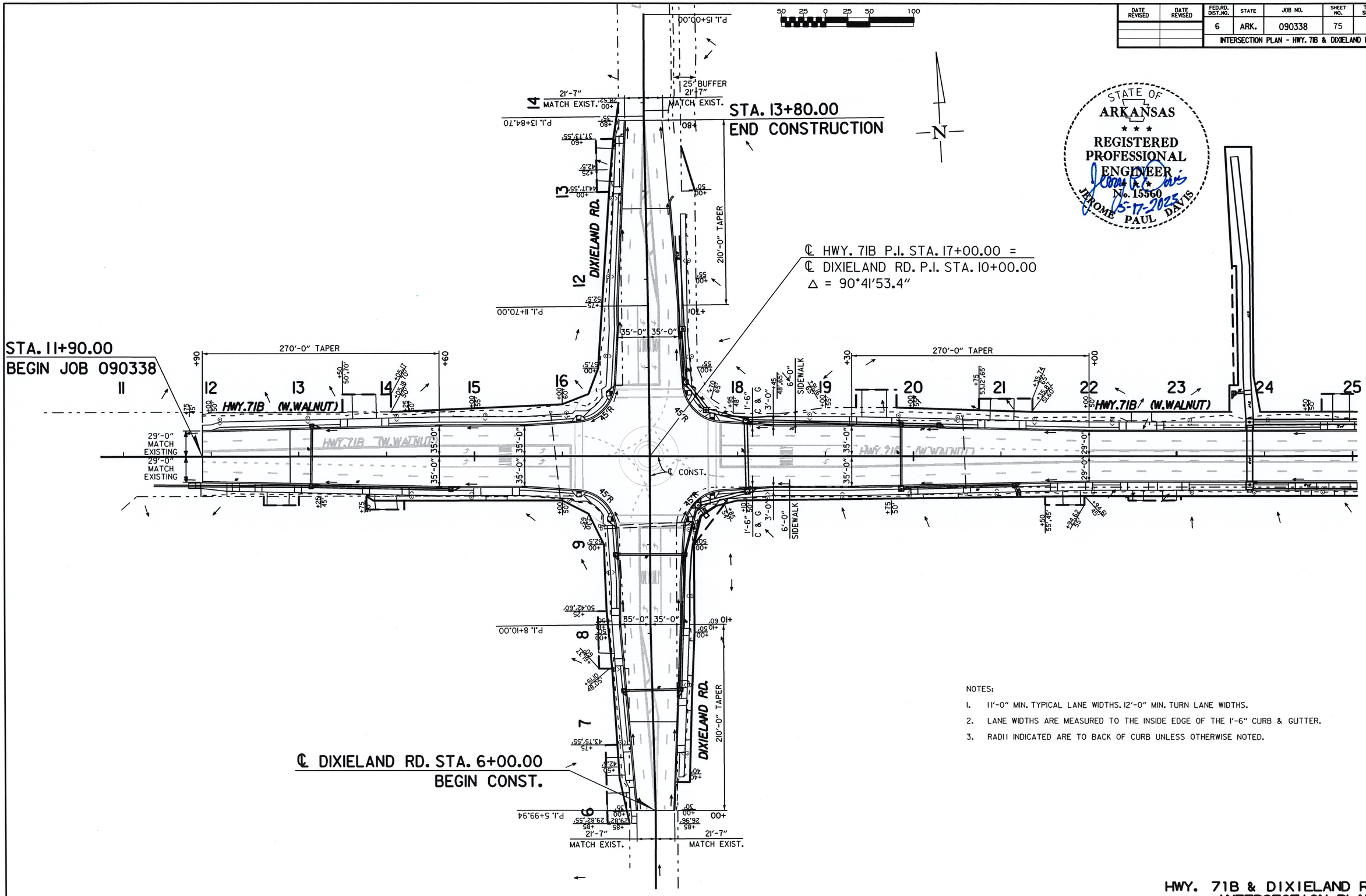
100 50 0 50 100 200
1" = 200'

SURVEY CONTROL DETAILS

DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\Survey_Ctl\090338 Survey Control.dgn MODEL: SURVEY CONTROL DETAILS
PLOTTED: 5/16/2023 16:47 SCALE: 1"=96.059

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	75	320
		INTERSECTION PLAN - HWY. 71B & DIXIELAND RD.				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023



NOTES:

1. 11'-0" MIN. TYPICAL LANE WIDTHS. 12'-0" MIN. TURN LANE WIDTHS.
2. LANE WIDTHS ARE MEASURED TO THE INSIDE EDGE OF THE 1'-6" CURB & GUTTER.
3. RADII INDICATED ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

HWY. 71B & DIXIELAND RD. INTERSECTION PLANS

USER: JJS206
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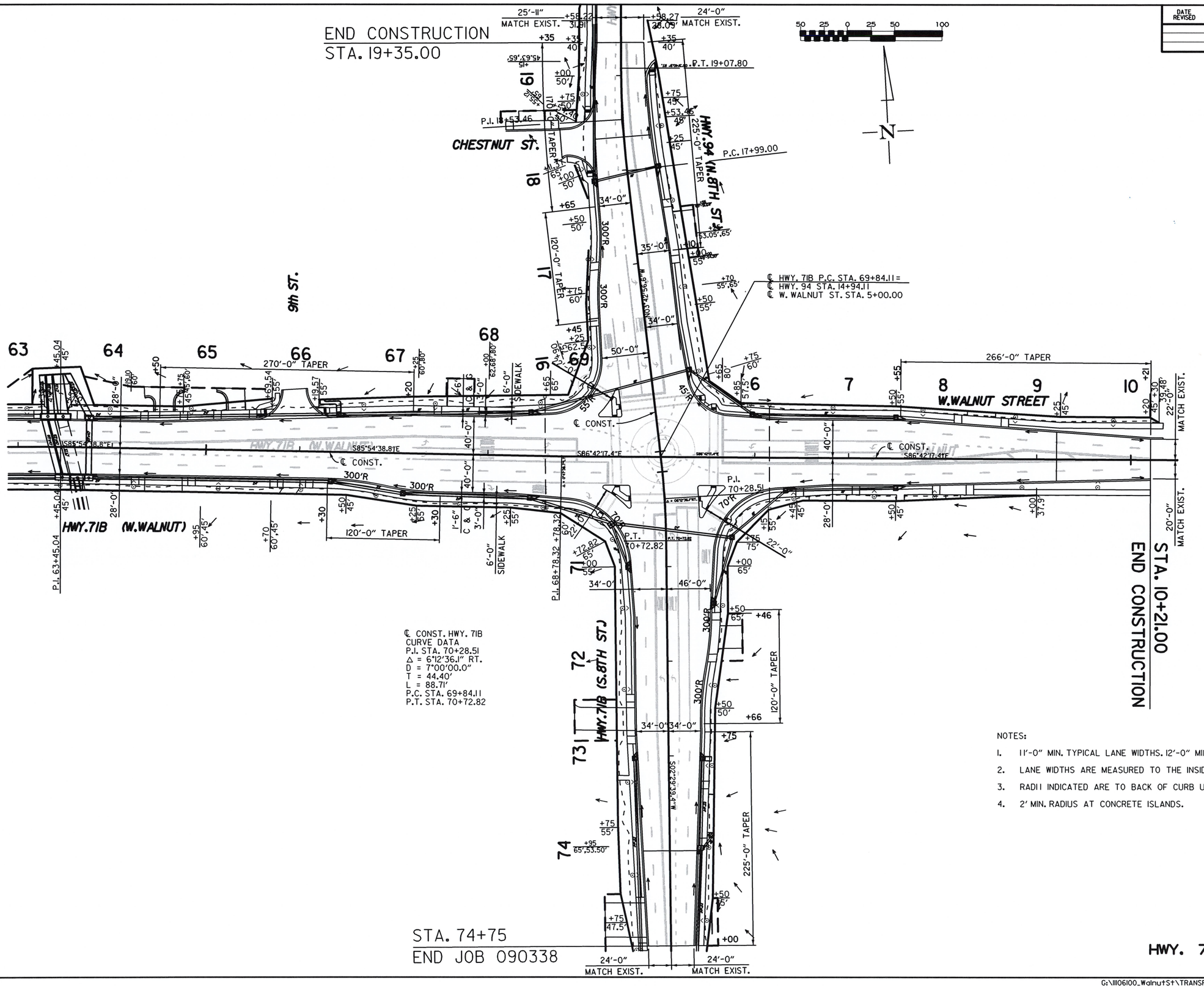
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	76	320
		INTERSECTION PLANS				

END CONSTRUCTION
STA. 19+35.00



STA. 74+75
END JOB 090338

STA. 10+21.00
END CONSTRUCTION

NOTES:

1. 11'-0" MIN. TYPICAL LANE WIDTHS. 12'-0" MIN. TURN LANE WIDTHS.
2. LANE WIDTHS ARE MEASURED TO THE INSIDE EDGE OF THE 1'-6" CURB & GUTTER.
3. RADII INDICATED ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
4. 2' MIN. RADIUS AT CONCRETE ISLANDS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

HWY. 71B, WALNUT ST. & HWY. 94 INTERSECTION PLANS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	77	320
		PLAN & PROFILE HWY. 71B STA. 11+90.00 TO 16+00.00				

20 10 0 10 20 40

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN.FT.
11+90	13+54	LT.	164

STATE OF ARKANSAS
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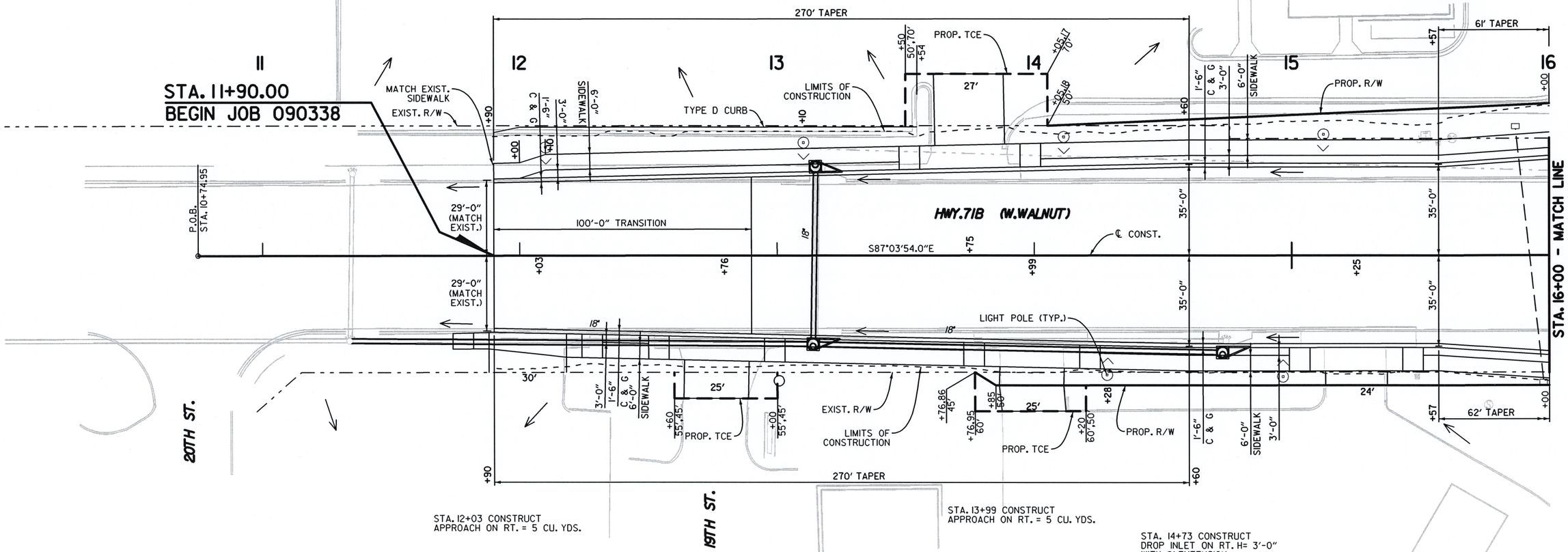
No. 15560
JEROME PAUL DAVIS
5-17-2023

STA. 13+16 IN PLACE
CURB INLET ON LT.
18" X 63' R.C. PIPE CULVERT
REMOVE

STA. 13+15 CONSTRUCT
DROP INLET ON LT. H= 4'-4"
WITH 8' EXTENSION
18" x 65' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 13+14 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 13+75 CONSTRUCT
APPROACH ON LT. = 15 CU. YDS.



STA. 12+03 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.

STA. 13+14 CONSTRUCT
DROP INLET ON RT. H= 4'-6"
WITH 8' EXTENSION
18" x 177' PIPE CULVERT
TO EXIST. D.I. STA. 11+34 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 12+76 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.

STA. 13+15 IN PLACE
CURB INLET ON RT.
18" X 179' R.C. PIPE CULVERT
REMOVE

STA. 13+99 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.

STA. 14+73 CONSTRUCT
DROP INLET ON RT. H= 3'-0"
WITH 8' EXTENSION
18" x 155' PIPE CULVERT
TO D.I. STA. 13+14 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 14+74 IN PLACE
CURB INLET ON RT.
18" X 158' R.C. PIPE CULVERT
REMOVE

STA. 15+25 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

HWY. 71B (W. WALNUT)

USER: JJ5206
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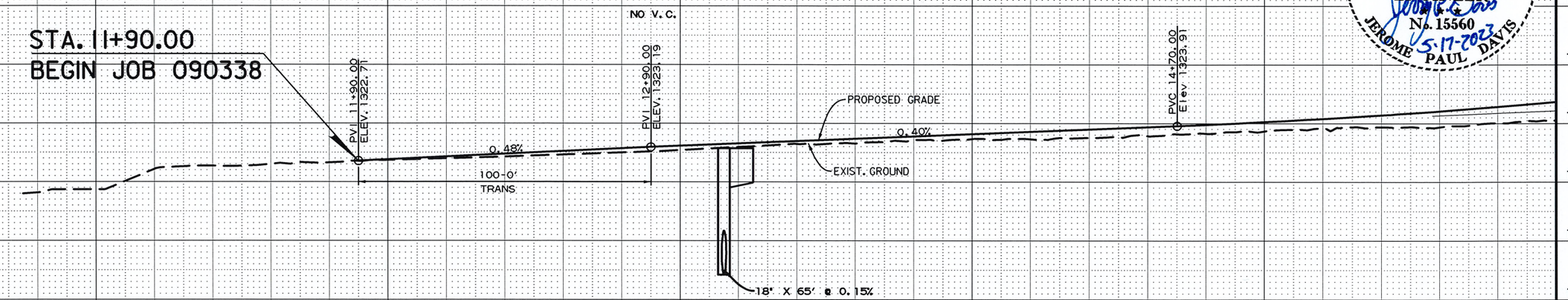
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	78	320

PLAN & PROFILE HWY. 71B STA. 11+90.00 TO 16+00.00

LEFT SIDE OF HWY. 71B

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



STATE OF ARKANSAS
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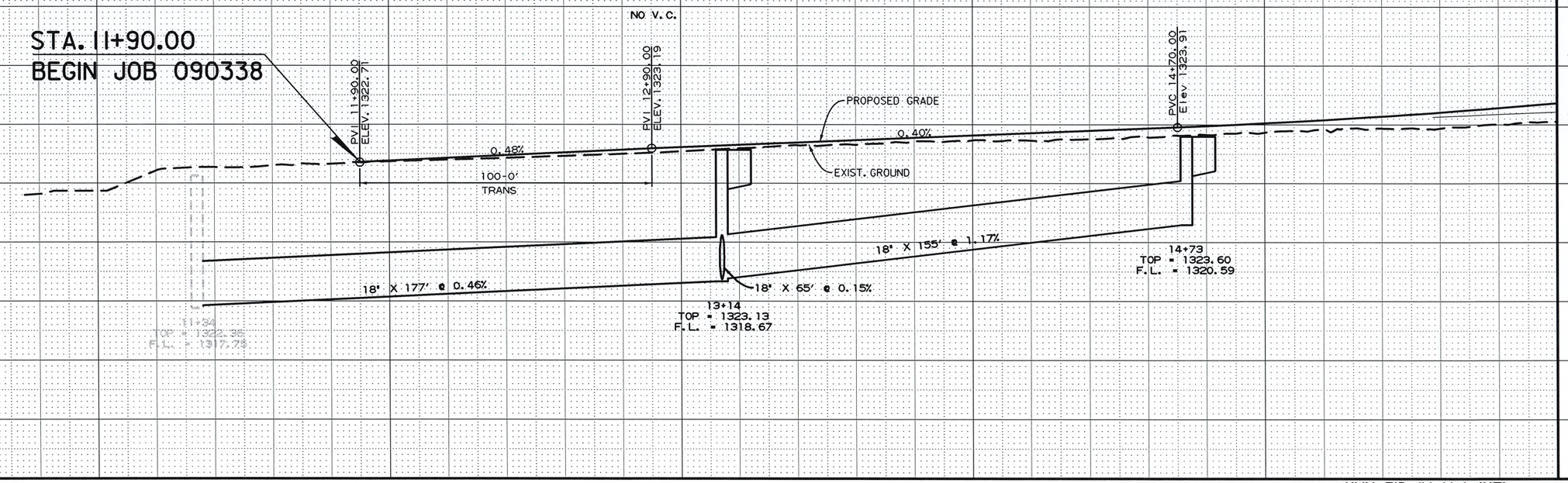
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

RIGHT SIDE OF HWY. 71B



10+00 11+00 12+00 13+00 14+00 15+00 16+00

HWY. 71B (W. WALNUT)

USER: JJ5206
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	79	320
		PLAN & PROFILE HWY. 7IB STA. 16+00.00 TO 22+00.00				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
5-17-2023
JEROME PAUL DAVIS

20 10 0 10 20 40

STA. 17+23 IN PLACE
CURB INLET ON LT.
24" X 82' C.M. PIPE CULVERT
REMOVE
24" X 95' C.M. PIPE CULVERT
PLUG AND ABANDON

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN.FT.
17+82	20+10	RT.	230
21+01	21+64	RT.	64

STA. 17+71 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.9 SQ. YDS.

STA. 18+09 CONSTRUCT
DROP INLET ON LT. H= 7'-0"
WITH 4' EXTENSION
AND 36" x 43' PIPE CULVERT
TO J.B. STA. 17+65 ON LT.
TYPE MO DROP = 5' DIA.
TYPE C DROP INLET = 5'x5'

STA. 18+86 TO 19+41 CONSTRUCT
CONNECTING DRIVE 68' LT.
APPROACH ON LT. = 26 CU. YDS.
UNCLASSIFIED EXC.

STA. 19+56 CONSTRUCT
APPROACH ON LT. = 20 CU. YDS.

STA. 17+80 TO STA. 18+42 ON LT. CONSTRUCT
SIDEWALK (TYPE SPECIAL)
TURNED DOWN WALL H=3'-0" MAX.
WITH 62 LIN. FT. HAND RAILING

STA. 20+29 IN PLACE
CURB INLET ON LT.
18" X 93' R.C. PIPE CULVERT
REMOVE

STA. 20+29 CONSTRUCT
DROP INLET ON LT. H= 4'-5"
WITH 4' EXTENSION
24" x 39' PIPE CULVERT
TO D.I. STA. 19+86 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 19+86 CONSTRUCT
DROP INLET ON LT. H= 5'-2"
24" x 173' PIPE CULVERT
TO D.I. STA. 18+09 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 21+01 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.

℄ HWY. 7IB P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

P.I. = STA. 17+00.00 (7IB)
△ = 00°01'24.5" RT.

P.I. = 10+00.00 (DIXIELAND)
△ = 00°40'24.3" LT.

DIXIELAND RD.

HWY. 7IB (W.WALNUT)

STA. 16+19 CONSTRUCT
TYPE 3 WHEELCHAIR
RAMP = 7.7 SQ. YDS.

STA. 16+19 CONSTRUCT
TYPE 3 WHEELCHAIR
RAMP = 7.6 SQ. YDS.

STA. 18+11 CONSTRUCT
DROP INLET ON RT. H= 6'-8"
WITH 8' EXTENSION
36" x 76' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. 18+09 ON LT.
TYPE MO DROP = 5' DIA.
TYPE C DROP INLET = 5'x5'

STA. 17+71 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.2 SQ. YDS.

DIXIELAND RD. STA. 8+17 TO
HWY. 7IB STA. 17+75 ON RT. CONSTRUCT
SIDEWALK (TYPE SPECIAL)
TURNED DOWN WALL H=3'-0" MAX.
WITH 146 LIN. FT. HAND RAILING

STA. 17+43 IN PLACE
CURB INLET ON RT.
24" X 18' C.M. PIPE CULVERT
REMOVE
15" X 24" X 70' C.M. PIPE CULVERT
PLUG & ABANDON

STA. 19+86 CONSTRUCT
DROP INLET ON RT. H= 3'-9"
WITH 8' EXTENSION
18" X 69' R.C. PIPE CULVERT
(CLASS V) (TYPE 3 BEDDING)
TO D.I. STA. 19+86 ON LT.
TYPE C DROP INLET = 6'x4'

STA. 19+97 IN PLACE
CURB INLET ON RT.
18" X 30' R.C. PIPE CULVERT
REMOVE

STA. 20+31 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 20+30 IN PLACE
DROP INLET ON RT.
18" X 64' R.C. PIPE CULVERT
REMOVE
18" X 47' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 21+80 CONSTRUCT
APPROACH ON RT. = 15 CU. YDS.
UNCLASSIFIED EXC.

STA. 21+15 CONSTRUCT
DROP INLET ON RT. H= 3'-9"
WITH 4' EXTENSION
18" X 125' PIPE CULVERT
TO D.I. STA. 19+86 ON RT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 21+20 CONSTRUCT
DROP INLET ON RT. H= 4'-3"
AND 18" X 7' PIPE CULVERT
TO D.I. STA. 21+15 ON RT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 21+15 IN PLACE
1.6' X 3.2' GRATED INLET ON RT.
18" X 22' R.C. PIPE CULVERT
REMOVE
12" X 80' R.C. PIPE CULVERT
RETAIN AND MODIFY 6' RT.
CONNECT TO D.I. ON RT. ℄ STA. 21+20

STA. 21+83 IN PLACE
DROP INLET ON RT.
12" X 233' R.C. PIPE CULVERT
RETAIN

HWY. 7IB (W. WALNUT)

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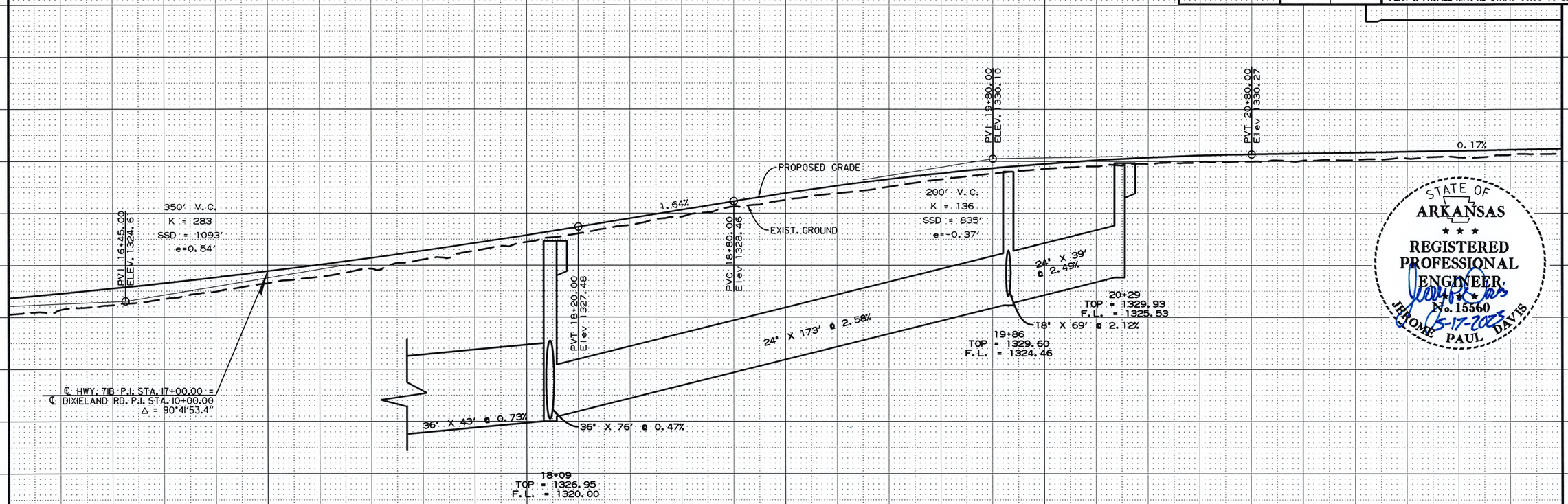
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	80	320

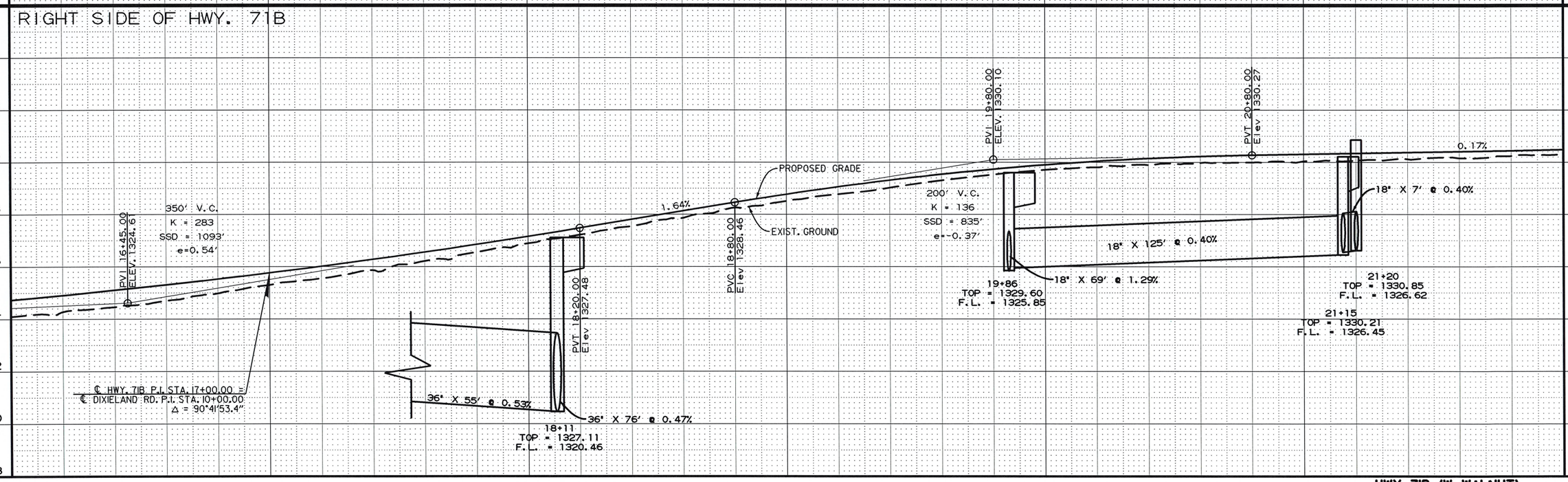
PLAN & PROFILE HWY. 71B STA. 16+00.00 TO 22+00.00

LEFT SIDE OF HWY. 71B

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



RIGHT SIDE OF HWY. 71B



16+00 17+00 18+00 19+00 20+00 21+00 22+00

HWY. 71B (W. WALNUT)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

USER: JJ5206
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\p&p\Prof-02 HWY71B.dgn
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	81	320
		PLAN & PROFILE HWY. 71B STA. 22+00.00 TO 28+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN.FT.
22+81	23+63	LT.	82
25+95	26+40	LT.	45

STATE OF ARKANSAS
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No. 15560
JEROME PAUL DAVIS
5-17-2023

STA. 22+60 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 23+66, 338.73' LT.
8'x4'x265' R.C. BOX CULVERT

STA. 23+83 CONSTRUCT
DROP INLET ON LT. H= 7'-8"
8' x 4' x 29' PRECAST BOX CULVERT
TO J.B. STA. 23+81 ON LT.
TYPE C SPECIAL DROP INLET = 8'x7'
L= 5'-0"

STA. 23+81 CONSTRUCT
JUNCTION BOX ON LT. H= 5'-0"
8' x 4' x 265' PRECAST BOX CULVERT
TO HEADWALL WITH WINGWALLS ON LT.
TYPE E JUNCTION BOX = 8'x4'

STA. 23+65 CONSTRUCT
DROP INLET ON LT. H= 4'-0"
WITH 4' EXTENSION
AND 18" x 10' PIPE CULVERT
TO J.B. STA. 23+81 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 23+69 IN PLACE
DROP INLET ON LT.
5' X 3' X 259' R.C. BOX CULVERT
REMOVE

STA. 23+84 IN PLACE
CURB INLET ON LT.
5' X 3' X 49' R.C. BOX CULVERT
5' X 3' X 257' R.C. BOX CULVERT
REMOVE

STA. 24+87 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.

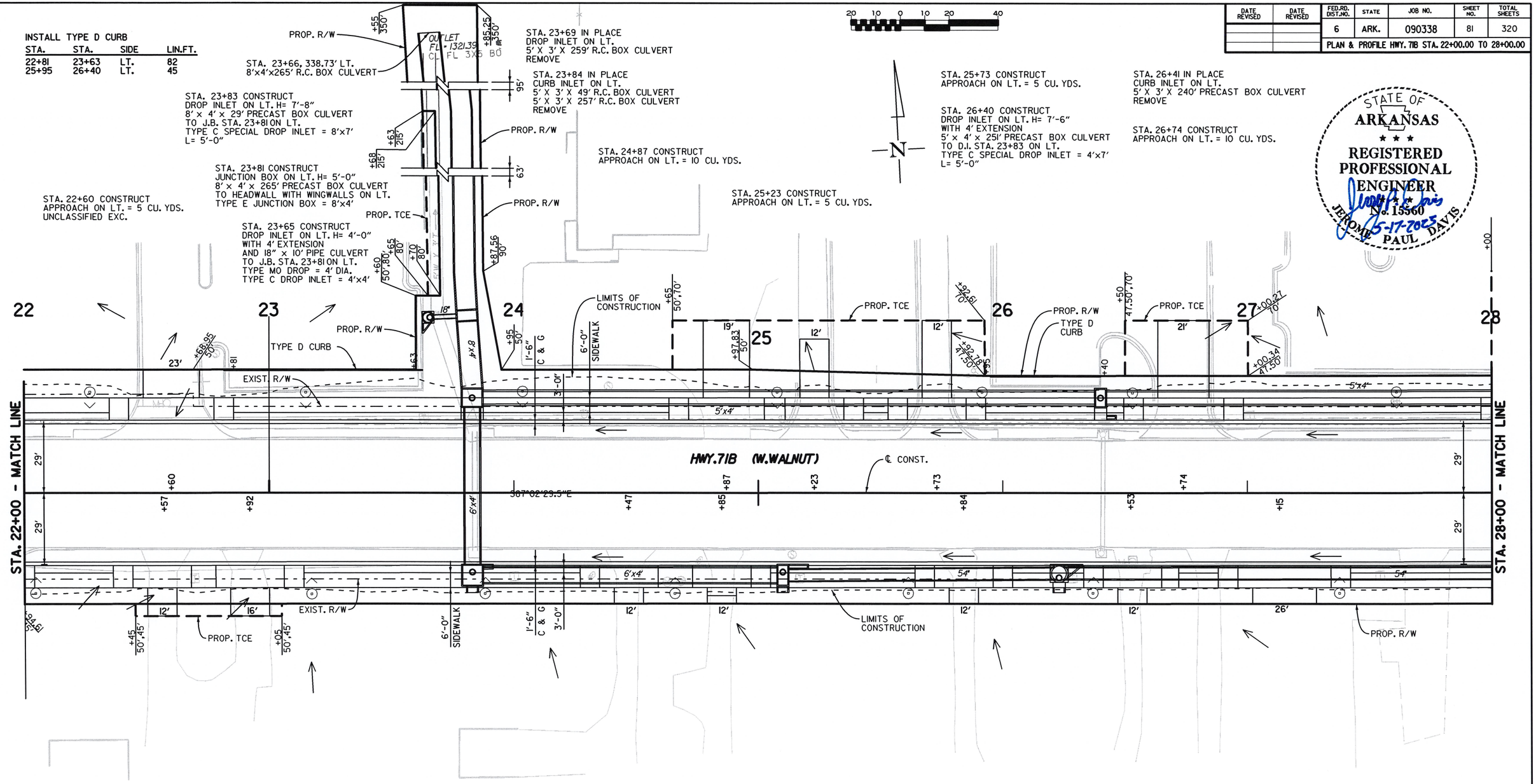
STA. 25+23 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.

STA. 25+73 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.

STA. 26+40 CONSTRUCT
DROP INLET ON LT. H= 7'-6"
WITH 4' EXTENSION
5' x 4' x 251' PRECAST BOX CULVERT
TO D.I. STA. 23+83 ON LT.
TYPE C SPECIAL DROP INLET = 4'x7'
L= 5'-0"

STA. 26+41 IN PLACE
CURB INLET ON LT.
5' X 3' X 240' PRECAST BOX CULVERT
REMOVE

STA. 26+74 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.



STA. 22+56 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 22+95 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 23+83 CONSTRUCT
DROP INLET ON RT. H= 7'-4"
WITH 8' EXTENSION & BACK OPENING
6'x 4'x 65' PRECAST BOX CULVERT
TO D.I. STA. 23+83 ON LT.
TYPE C DROP INLET = 8'x8'

STA. 24+47 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 24+85 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 25+10 CONSTRUCT
DROP INLET ON RT. H= 7'-3"
WITH 8' EXTENSION & BACK OPENING
6'x 4' x 121' PRECAST BOX CULVERT
TO D.I. STA. 23+83 ON RT.
TYPE C DROP INLET = 4'x8'

STA. 25+84 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 26+23 CONSTRUCT
DROP INLET ON RT. H=7'-5"
WITH 8' EXTENSION & BACK OPENING
AND 54" x 109' PIPE CULVERT
TO D.I. STA. 25+10 ON RT.
TYPE MO DROP = 6' DIA.
TYPE C DROP INLET = 4'x6'

STA. 26+53 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 27+15 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 23+84 IN PLACE
CURB INLET ON RT.
24" X 48' R.C. PIPE CULVERT
REMOVE

STA. 26+40 IN PLACE
CURB INLET ON RT.
REMOVE
18" X 46' R.C. PIPE CULVERT
PLUG & ABANDON

HWY. 71B (W. WALNUT)

DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\p&p\Plan-03 HWY71B.dgn
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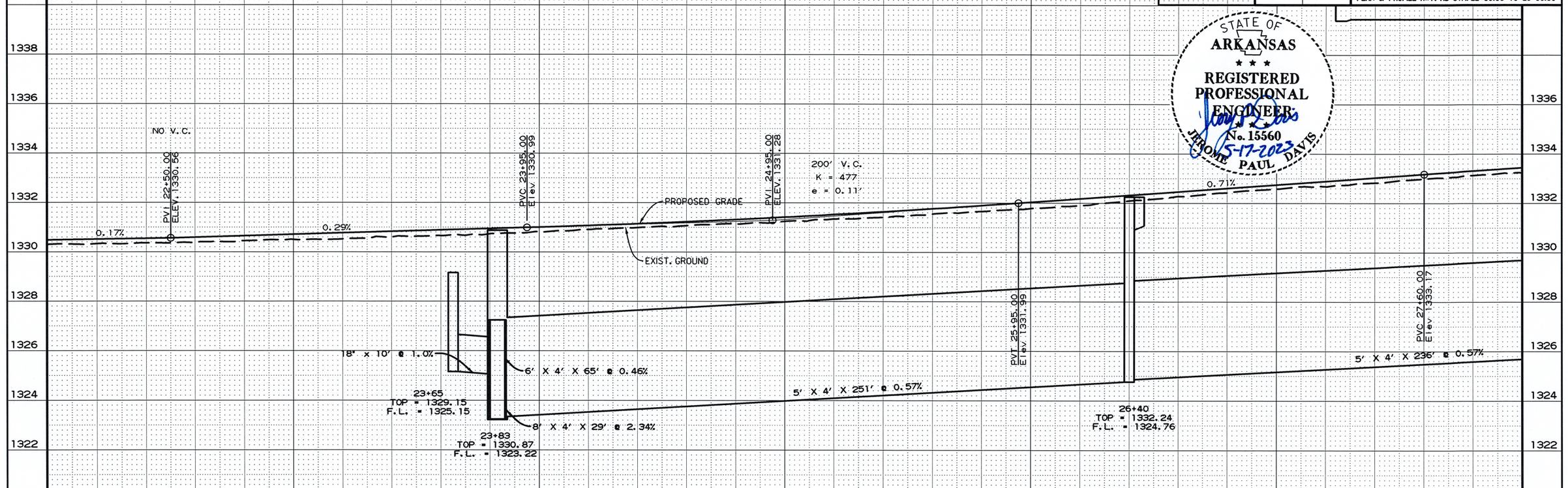
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	82	320

PLAN & PROFILE HWY. 71B STA. 22+00.00 TO 28+00.00

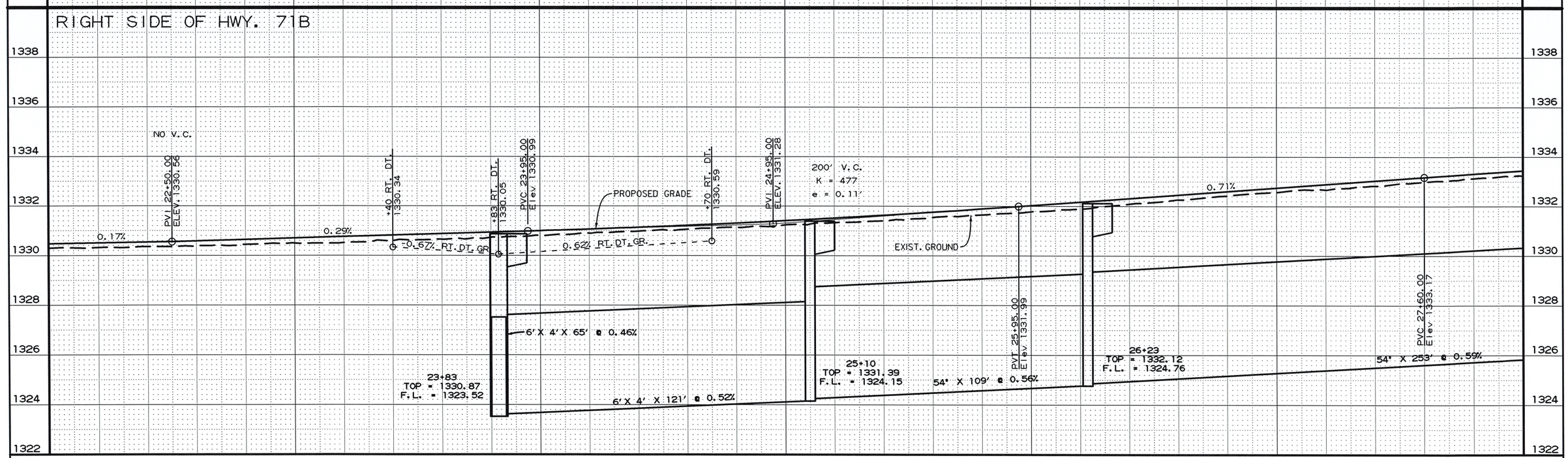
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

LEFT SIDE OF HWY. 71B

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



RIGHT SIDE OF HWY. 71B



22+00 23+00 24+00 25+00 26+00 27+00 28+00

HWY. 71B (W. WALNUT)

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	83	320
		PLAN & PROFILE HWY. 71B STA. 28+00.00 TO 34+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN.FT.
32+26	32+51	LT.	25
32+57	33+56	LT.	99
30+81	31+13	RT.	25
31+17	31+54	RT.	37
31+61	31+99	RT.	38
32+85	33+25	RT.	40

STA. 28+81 IN PLACE
CURB INLET ON LT.
5′ X 3′ X 240′ R.C. BOX CULVERT
REMOVE

STA. 30+60 IN PLACE
CURB INLET ON LT.
5′ X 3′ X 179′ R.C. BOX CULVERT
REMOVE

STA. 32+00 TO 32+15
CONSTRUCT CONNECTING
DRIVE 74′ LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 31+81 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 33+48 CONSTRUCT
DROP INLET ON LT. H= 6′-6″
WITH 4′ EXTENSION
AND 54″ x 79′ PIPE CULVERT
TO D.I. STA. 32+65 ON LT.
TYPE C SPECIAL DROP
INLET = 4′x6′ L= 3′-6″

STATE OF ARKANSAS
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STA. 28+80 CONSTRUCT
DROP INLET ON LT. H= 7′-9″
WITH 4′ EXTENSION
5′ x 4′ x 236′ PRECAST BOX CULVERT
TO D.I. STA. 26+40 ON LT.
TYPE C SPECIAL DROP INLET = 4′x7′
L= 5′-0″

STA. 30+60 CONSTRUCT
DROP INLET ON LT. H= 7′-4″
WITH 4′ EXTENSION
5′ x 4′ x 176′ PRECAST BOX CULVERT
TO D.I. STA. 28+80 ON LT.
TYPE C SPECIAL DROP INLET = 4′x7′
L= 5′-0″

STA. 31+04 CONSTRUCT
DROP INLET 77.30′ LT. H= 4′-10″
WITH 18″ x 143′ PIPE CULVERT INLET
CONNECT TO EXIST. C.M. PIPE OUTLET
AT 31+01, 222′ LT. AND WITH
18″x 37′ PIPE CULVERT
TO PRECAST BOX CULVERT ON LT.
TYPE C DROP INLET = 4′x4′

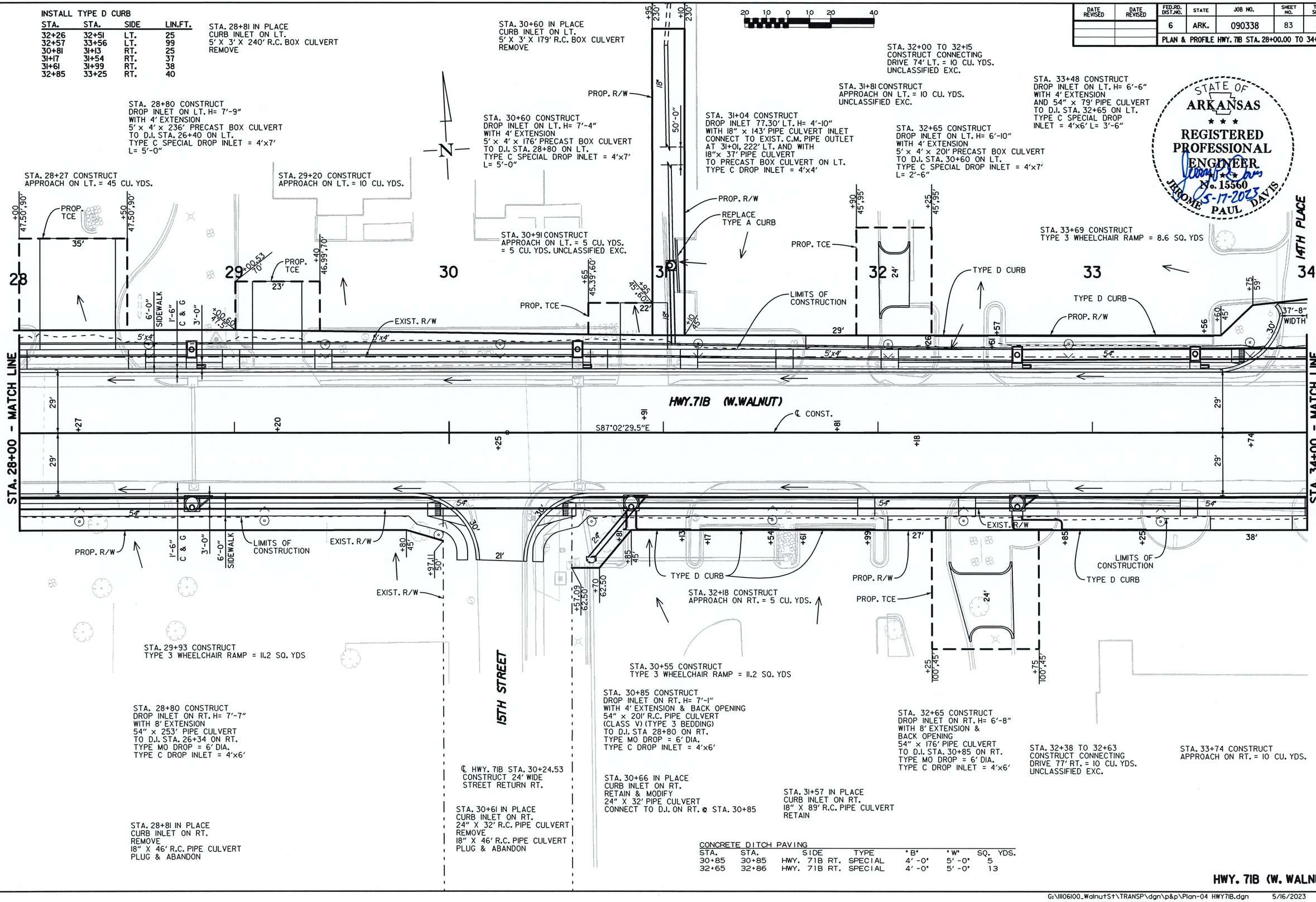
STA. 32+65 CONSTRUCT
DROP INLET ON LT. H= 6′-10″
WITH 4′ EXTENSION
5′ x 4′ x 201′ PRECAST BOX CULVERT
TO D.I. STA. 30+60 ON LT.
TYPE C SPECIAL DROP INLET = 4′x7′
L= 2′-6″

STA. 28+27 CONSTRUCT
APPROACH ON LT. = 45 CU. YDS.

STA. 29+20 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.

STA. 30+91 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
= 5 CU. YDS. UNCLASSIFIED EXC.

STA. 33+69 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.6 SQ. YDS



STA. 29+93 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS

STA. 30+55 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS

STA. 28+80 CONSTRUCT
DROP INLET ON RT. H= 7′-7″
WITH 8′ EXTENSION
54″ x 253′ PIPE CULVERT
TO D.I. STA. 26+34 ON RT.
TYPE MO DROP = 6′ DIA.
TYPE C DROP INLET = 4′x6′

STA. 30+85 CONSTRUCT
DROP INLET ON RT. H= 7′-1″
WITH 4′ EXTENSION & BACK OPENING
54″ x 201′ R.C. PIPE CULVERT
(CLASS V) (TYPE 3 BEDDING)
TO D.I. STA 28+80 ON RT.
TYPE MO DROP = 6′ DIA.
TYPE C DROP INLET = 4′x6′

STA. 32+65 CONSTRUCT
DROP INLET ON RT. H= 6′-8″
WITH 8′ EXTENSION &
BACK OPENING
54″ x 176′ PIPE CULVERT
TO D.I. STA. 30+85 ON RT.
TYPE MO DROP = 6′ DIA.
TYPE C DROP INLET = 4′x6′

STA. 32+38 TO 32+63
CONSTRUCT CONNECTING
DRIVE 77′ RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 33+74 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.

STA. 28+81 IN PLACE
CURB INLET ON RT.
REMOVE
18″ X 46′ R.C. PIPE CULVERT
PLUG & ABANDON

℄ HWY. 71B STA. 30+24.53
CONSTRUCT 24′ WIDE
STREET RETURN RT.

STA. 30+61 IN PLACE
CURB INLET ON RT.
24″ X 32′ R.C. PIPE CULVERT
REMOVE
18″ X 46′ R.C. PIPE CULVERT
PLUG & ABANDON

STA. 30+66 IN PLACE
CURB INLET ON RT.
RETAIN & MODIFY
24″ X 32′ PIPE CULVERT
CONNECT TO D.I. ON RT. @ STA. 30+85

STA. 31+57 IN PLACE
CURB INLET ON RT.
18″ X 89′ R.C. PIPE CULVERT
RETAIN

CONCRETE DITCH PAVING

STA.	STA.	SIDE	TYPE	"B"	"W"	SQ. YDS.
30+85	30+85	HWY. 71B RT.	SPECIAL	4′-0"	5′-0"	5
32+65	32+86	HWY. 71B RT.	SPECIAL	4′-0"	5′-0"	13

HWY. 71B (W. WALNUT)

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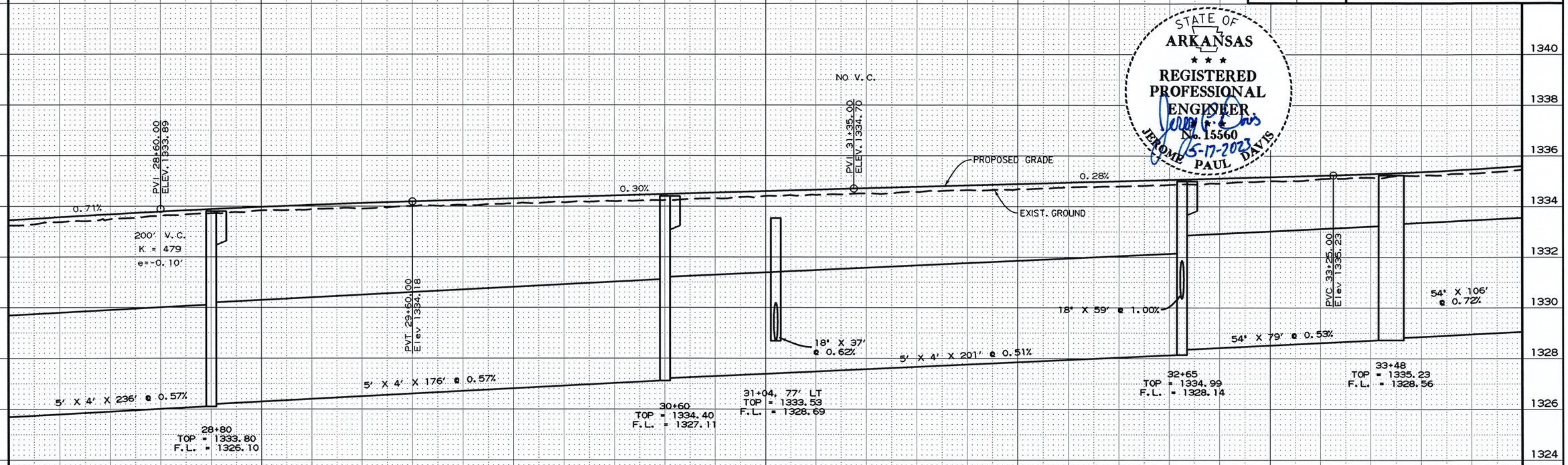
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	84	320
		PLAN & PROFILE HWY. 71B STA. 28+00.00 TO 34+00.00				

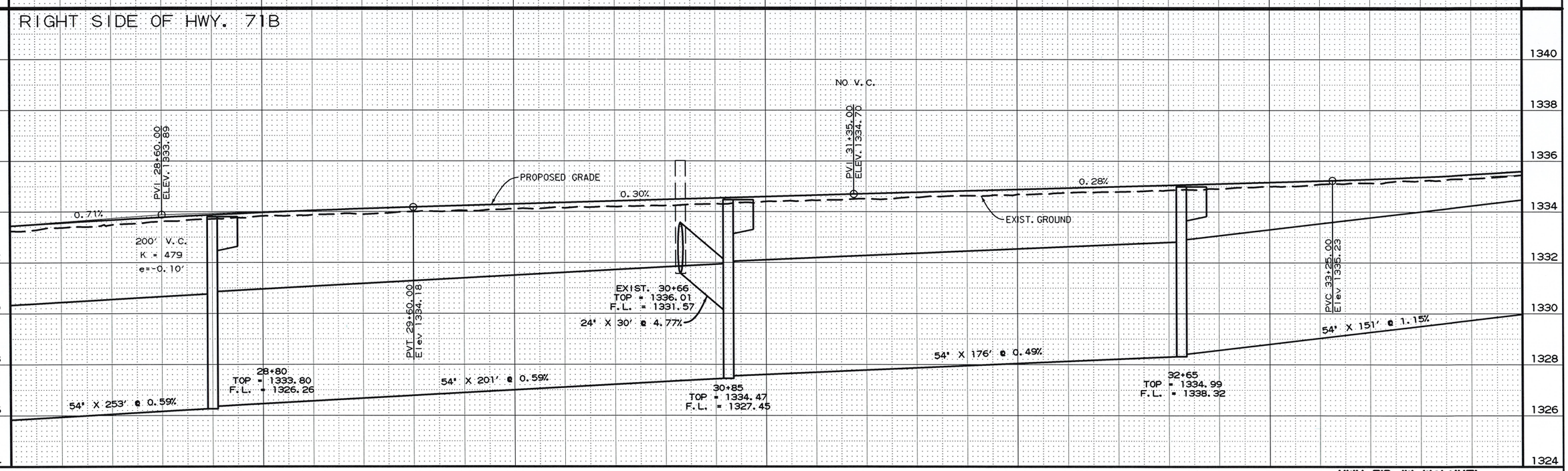
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023

LEFT SIDE OF HWY. 71B

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



RIGHT SIDE OF HWY. 71B



28+00 29+00 30+00 31+00 32+00 33+00 **HWY. 71B (W. WALNUT)** 34+00

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PLOTTED: 5/16/2023 16:49 SCALE: 1:40

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	85	320
		PLAN & PROFILE HWY. 71B STA. 34+00.00 TO 40+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
34+34	34+55	LT.	28
34+61	35+26	LT.	65
35+10	35+11	RT.	1
35+18	35+42	RT.	24
35+44	36+37	LT.	100
36+76	37+08	LT.	36
37+97	38+92	RT.	95
38+83	39+15	LT.	32
39+42	40+13	RT.	71

STA. 34+24 IN PLACE
DBL. 2' X 2' GRATED INLET ON LT.
5' X 3' X 359' R.C. BOX CULVERT
REMOVE

STA. 34+45 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS

℄ HWY. 71B STA. 34+06.68
CONSTRUCT 38' WIDE
STREET RETURN LT.

STA. 34+58 CONSTRUCT
DROP INLET ON LT. H= 6'-8"
WITH 8' EXTENSION AND OPENING IN BACK
AND 54" x 106' R.C. PIPE CULVERT
(CLASS V)(TYPE 3 BEDDING)
TO D.I. STA. 33+48 ON LT.
TYPE C SPECIAL DROP INLET = 4'x6'
L= 3'-6"

14TH PLACE

STA. 36+42 CONSTRUCT
APPROACH AT 14TH ST.
ON LT. = 5 CU. YDS.

STA. 36+23 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS

14TH STREET

STA. 36+93 IN PLACE
CURB INLET ON LT.
18" X 44' C.M. PIPE CULVERT
24" X 264' R.C. PIPE CULVERT
REMOVE

STA. 36+92 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS

℄ HWY. 71B STA. 36+57.34
CONSTRUCT 30' WIDE
STREET RETURN LT.

STA. 37+05 CONSTRUCT
DROP INLET ON LT. H= 8'-9"
AND 54" x 243' R.C. PIPE CULVERT
(CLASS III)(TYPE 3 BEDDING)
TO D.I. STA. 34+58 ON LT.
AND 18" x 30' INLET
TO EXIST. GRATE INLET ON LT.
TYPE C SPECIAL DROP INLET = 4'x6'
L= 3'-6"

20 10 0 10 20 40

N

STA. 37+03 IN PLACE
3' X 3' GRATED INLET ON LT.
RETAIN & MODIFY
CONNECT TO D.I. ON LT. @ STA. 37+05

STA. 38+32 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 38+79 CONSTRUCT
DROP INLET ON LT. H= 10'-1"
WITH 8' EXTENSION & BACK OPENING
AND 54" x 170' PIPE CULVERT
TO D.I. STA. 36+98 ON LT.
TYPE C SPECIAL DROP INLET = 4'x6'
L= 3'-6"

STA. 39+88 IN PLACE
CURB INLET ON LT.
24" X 296' R.C. PIPE CULVERT
REMOVE

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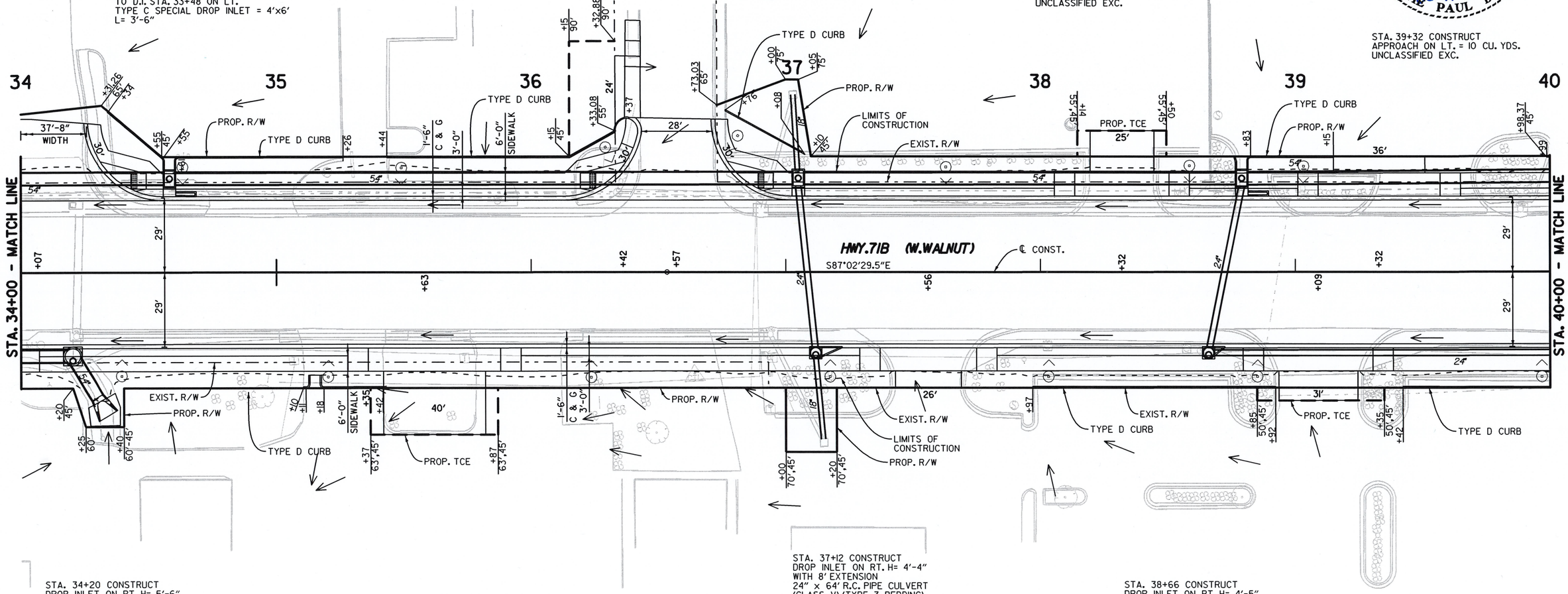
STA. 39+32 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.



STA. 34+20 CONSTRUCT
DROP INLET ON RT. H= 5'-6"
WITH 4' EXTENSION
54" x 151' PIPE CULVERT
TO D.I. STA. 32+65 ON RT.
54" X 16' R.C. PIPE CULVERT INLET
(CLASS III) (TYPE 3 BEDDING)
WITH F.E.S.
TYPE MO DROP INLET = 6' DIA.
TYPE C DROP INLET = 6'x6'
D.A. = 48 AC. Q50 = 128.2 CFS

CONCRETE DITCH PAVING

STA.	STA.	SIDE	TYPE	"B"	"W"	SQ. YDS.
33+26	33+38	HWY. 71B RT.	A	4'-0"	5'-0"	13
34+58	34+58	HWY. 71B LT.	SPECIAL	4'-0"	5'-0"	3
35+15	35+15	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3
38+79	38+79	HWY. 71B LT.	SPECIAL	4'-0"	5'-0"	3

STA. 35+63 CONSTRUCT
APPROACH ON RT. = 23.5 CU. YDS.
UNCLASSIFIED EXC.

STA. 34+21 IN PLACE
CURB INLET ON RT.
36" X 8' R.C. PIPE CULVERT W/ HEADWALL
18" X 271' R.C. PIPE CULVERT
REMOVE
36" X 46' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 36+94 IN PLACE
CURB INLET ON RT.
18" X 45' R.C. PIPE CULVERT
REMOVE

STA. 37+12 CONSTRUCT
DROP INLET ON RT. H= 4'-4"
WITH 8' EXTENSION
24" x 64' R.C. PIPE CULVERT
(CLASS V) (TYPE 3 BEDDING)
TO D.I. STA. 37+05 ON LT.
18" x 32' R.C. PIPE CULVERT INLET
(CLASS V) (TYPE 3 BEDDING)
TO EXIST. GRATE ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 37+15 IN PLACE
3' X 3' GRATED INLET ON RT.
RETAIN & MODIFY
CONNECT TO D.I. ON RT. @ STA. 37+12

STA. 37+56 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 38+66 CONSTRUCT
DROP INLET ON RT. H= 4'-5"
WITH 4' EXTENSION
24" x 65' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. STA. 38+79 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 39+09 CONSTRUCT
APPROACH ON RT. = 15 CU. YDS.
UNCLASSIFIED EXC.

HWY. 71B (W. WALNUT)

DESIGN FILE: G:\1106100_Walnut St\TRANSP\dgn\p&p\Plan-05 HWY71B.dgn MODEL: PLAN AND PROFILE SHEETS
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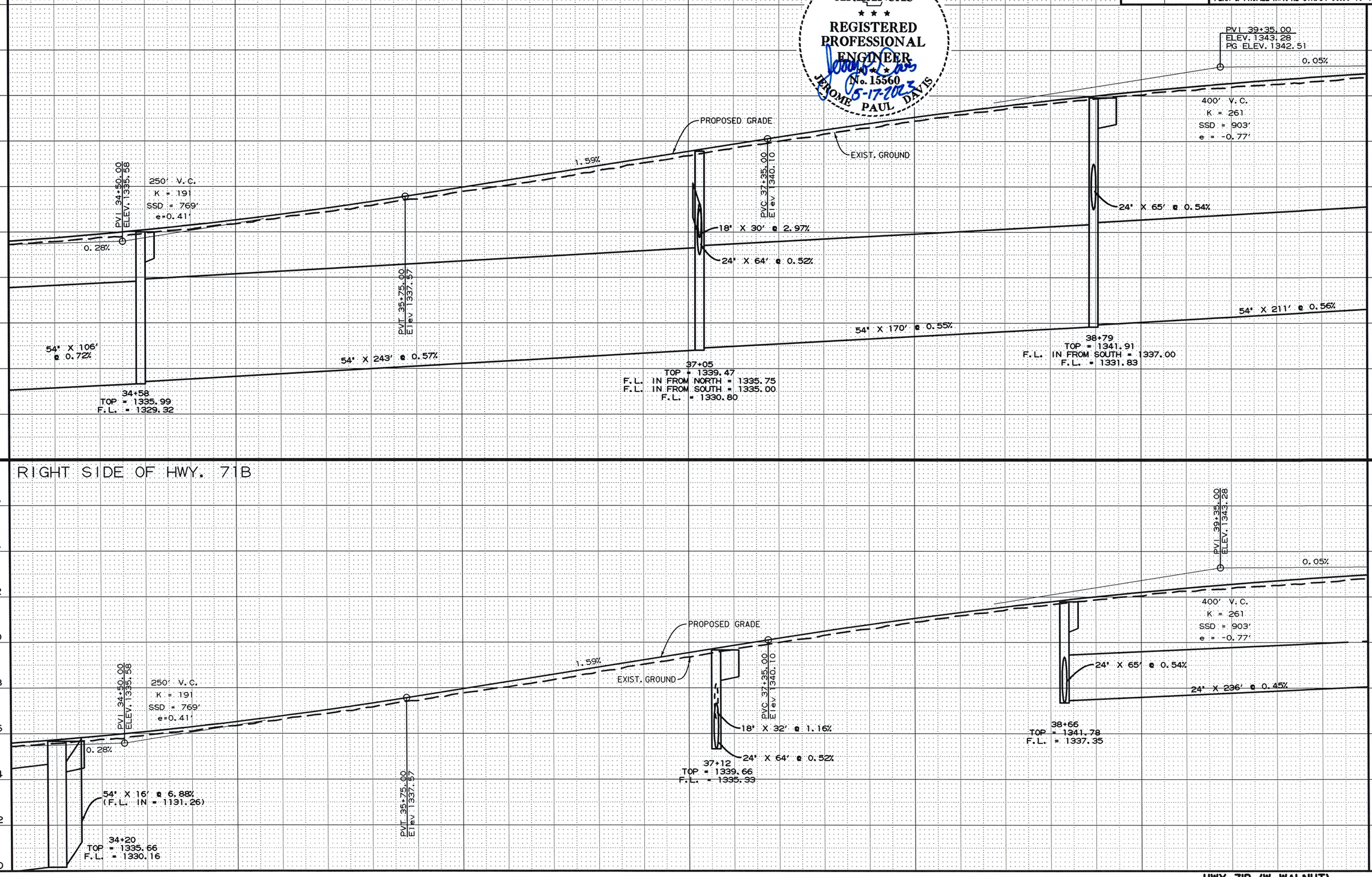
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	86	320
		PLAN & PROFILE HWY. 71B STA. 34+00.00 TO 40+00.00				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

LEFT SIDE OF HWY. 71B

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



RIGHT SIDE OF HWY. 71B

34+00 35+00 36+00 37+00 38+00 39+00 40+00

HWY. 71B (W. WALNUT)

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\p&p\Prof-05 HWY71B.dgn MODEL: PLAN AND PROFILE SHEETS
PLOTTED: 5/16/2023 16:49 SCALE: 1:40

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	87	320
		PLAN & PROFILE HWY. 71B STA. 40+00.00 TO 46+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
39+99	40+38	LT.	39
41+55	42+88	LT.	158
43+85	45+88	LT.	211
40+43	40+63	RT.	26
41+04	41+07	RT.	3
41+13	42+86	RT.	176

STA. 41+17 IN PLACE
1' DIA. GRATED INLET ON LT.
12" X 65' C.M. PIPE CULVERT
REMOVE

STA. 42+81 IN PLACE
CURB INLET ON LT.
24" X 7' R.C. PIPE CULVERT
REMOVE
24" X 242' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 42+84 IN PLACE
DROP INLET ON LT.
REMOVE
24" X 64' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 40+50 IN PLACE
CURB INLET ON LT.
24" X 61' R.C. PIPE CULVERT
REMOVE

STA. 42+42 CONSTRUCT
DROP INLET ON LT. H= 9'-5"
AND 54" x 144' PIPE CULVERT
TO D.I. STA. 40+98 ON LT.
TYPE C SPECIAL DROP INLET = 4'x6'
L= 5'-0"

STA. 42+55 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 3.5 SQ. YDS

STA. 40+94 CONSTRUCT
DROP INLET ON LT. H= 10'-2"
WITH 4' EXTENSION
AND 54" x 211' PIPE CULVERT
TO D.I. STA. 38+79 ON LT.
TYPE C SPECIAL DROP INLET = 4'x6'
L= 5'-0"

STA. 42+92 CONSTRUCT
JUNC. BOX ON LT. H= 8'-3"
54" x 47' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. STA. 42+42 ON LT.
TYPE ST JUNC. BOX. = 3'x6'

STA. 42+96 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 3.8 SQ. YDS

STA. 41+35 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 43+56 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 3.7 SQ. YDS

STA. 43+65 IN PLACE
CURB INLET ON LT.
24" X 90' R.C. PIPE CULVERT
REMOVE
24" X 13' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 43+86 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 7.2 SQ. YDS

STA. 44+00 CONSTRUCT
DROP INLET ON LT. H= 8'-7"
54" x 105' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO J.B. STA. 42+92 ON LT.
TYPE C SPECIAL DROP INLET = 5'x6'
L= 5'-0"

STA. 43+50 IN PLACE
DROP INLET ON LT.
REMOVE
18" X 307' R.C. PIPE CULVERT
24" X 64' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 45+70 CONSTRUCT
DROP INLET ON LT. H= 3'-5"
AND 36" x 165' PIPE CULVERT
TO D.I. STA. 44+00 ON LT.
TYPE C SPECIAL DROP INLET = 4'x5'
L= 3'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023

℄ HWY. 71B STA. 43+26.63 =
℄ 13th ST. P.I. STA. 15+00.00
△ = 90°42'06.3"

P.I. 41+62.35
△ = 0°1'19.5"LT

P.I. = STA. 43+26.63 (71B)
△ = 00°15'53.1"RT.

P.I. = 15+00.00 (13TH ST.)
△ = 00°26'23.1" LT.

13TH STREET

HWY.71B (W.WALNUT)

S87°02'29.5"E

S87°03'49.0"E

S86°47'55.9"E

℄ CONST.

STA. 40+00 - MATCH LINE

STA. 46+00 - MATCH LINE

TYPE D CURB
PROP. R/W
LIMITS OF CONSTRUCTION
PROP. TCE
EXIST. R/W
SIDEWALK
TRANSITION
56' TAPER
60' TAPER
100'-0" TRANSITION
MATCH EXISTING
150' GAP

STA. 42+55 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 3.3 SQ. YDS

STA. 42+85 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 5.0 SQ. YDS

STA. 42+90 IN PLACE
CURB INLET ON RT.
REMOVE
18" X 17' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 42+42 CONSTRUCT
DROP INLET ON RT. H= 4'-3"
AND 24" x 134' PIPE CULVERT
TO D.I. STA. 41+05 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 40+76 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 41+05 CONSTRUCT
DROP INLET ON RT. H= 4'-9"
WITH 4' EXTENSION & BACK OPENING
AND 24" x 236' PIPE CULVERT
TO D.I. STA. 38+66 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 40+88 IN PLACE
1' DIA. GRATED INLET ON RT.
REMOVE

STA. 41+08 IN PLACE
CURB INLET ON RT.
12" X 181' R.C. PIPE CULVERT
12" X 26' R.C. PIPE CULVERT
REMOVE

℄ S. 13TH STREET STA. 13+55.00
BEGIN CONST.

CONCRETE DITCH PAVING					(TYPE SPECIAL)
STA.	STA.	SIDE	"B"	"W"	SQ. YDS.
41+05	41+10	HWY. 71B RT. -CONC. FLUME	4'-0"	5'-0"	5

STA. 43+01 IN PLACE
JUNCTION BOX ON RT.
REMOVE
18" X 47' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 43+50 IN PLACE
JUNCTION BOX ON RT.
REMOVE
18" X 47' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 43+57 IN PLACE
CURB INLET ON RT.
REMOVE
18" X 20' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 43+60 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 4.7 SQ. YDS

STA. 43+85 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 6.7 SQ. YDS

STA. 43+95 CONSTRUCT
DROP INLET ON RT. H= 7'-0"
WITH 8' EXTENSION
48" x 66' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. STA. 44+00 ON LT.
TYPE MO DROP = 6' DIA.
TYPE C DROP INLET = 4'x6'

℄ HWY. 71B STA. 43+75 TO 45+11RT.
DO NOT DISTURB EXIST. WALL

STA. 45+80 CONSTRUCT
DROP INLET ON RT. H= 6'-1"
AND 48" x 181' PIPE CULVERT
TO D.I. STA. 43+95 ON RT.
TYPE MO DROP = 6' DIA.
TYPE C DROP INLET = 4'x6'

STA. 45+78 IN PLACE
CURB INLET ON RT.
12" X 81' R.C. PIPE CULVERT
REMOVE

HWY. 71B (W. WALNUT)

DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\p&p\Plan-06 HWY71B.dgn MODEL: PLAN AND PROFILE SHEETS
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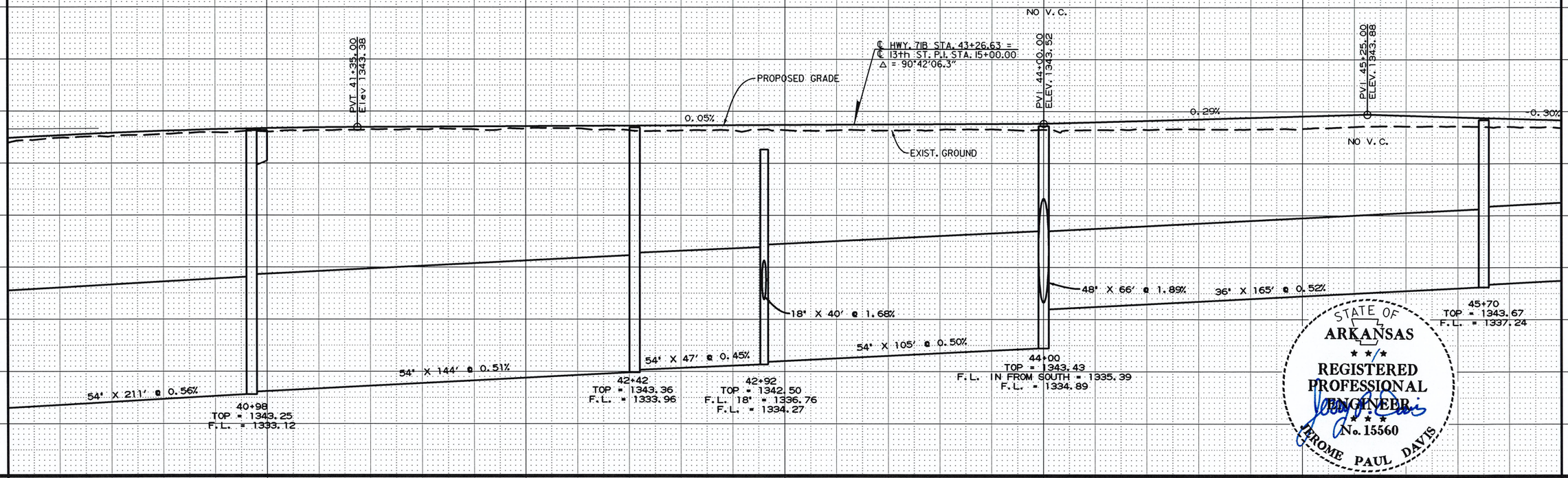
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	88	320
		PLAN & PROFILE HWY. 71B STA. 40+00.00 TO 46+00.00				

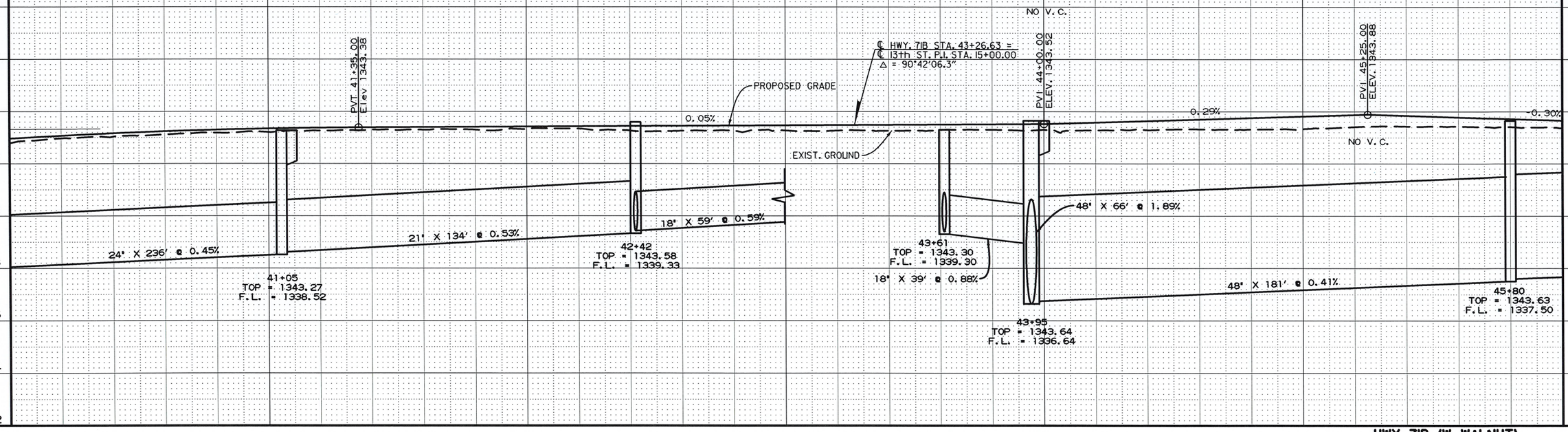
LEFT SIDE OF HWY. 71B

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



STATE OF ARKANSAS
* * *
REGISTERED PROFESSIONAL ENGINEER
* * *
No. 15560
JEROME PAUL DAVIS

RIGHT SIDE OF HWY. 71B



40+00 41+00 42+00 43+00 44+00 45+00 46+00

HWY. 71B (W. WALNUT)

USER: JJ5206
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SCALE: 1:40

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	89	320
		PLAN & PROFILE HWY. 71B STA. 46+00.00 TO 52+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
46+15	46+35	LT.	27
47+25	47+53	RT.	29
47+61	48+48	RT.	88
48+19	49+10	LT.	91
48+55	49+97	RT.	142
50+42	50+45	RT.	4
50+93	51+64	RT.	72
51+06	51+23	LT.	18
51+31	51+67	LT.	36

STA. 46+60 IN PLACE
CURB INLET ON LT.
18" X 90' R.C. PIPE CULVERT
REMOVE

STA. 46+01 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 46+50 TO 46+97 CONSTRUCT
CONCRETE ISLAND ON LT.
ADJACENT TO DRIVEWAY
6' WIDE
31 SQ. YDS.

STA. 47+13 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 48+05 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 46+80 CONSTRUCT
DROP INLET ON LT. H= 5'-6"
WITH BACK OPENING
36" x 16' PIPE CULVERT
TO D.I. AT STA. 46+60 ON LT.
TYPE C SPECIAL DROP INLET = 4'x5'
L= 3'-0"

STA. 48+35 CONSTRUCT
DROP INLET ON LT. H= 5'-0"
WITH BACK OPENING
30" x 78' PIPE CULVERT
TO D.I. STA. 47+53 ON LT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 46+60 CONSTRUCT
DROP INLET ON LT. H= 5'-8"
WITH 2-4' EXTENSIONS
AND 36" x 86' PIPE CULVERT
TO D.I. STA. 45+70 ON LT.
TYPE C SPECIAL DROP INLET = 4'x5'
L= 3'-0"

STA. 47+53 CONSTRUCT
DROP INLET ON LT. H= 6'-3"
WITH 8' EXTENSION
AND 36" x 69' PIPE CULVERT
TO D.I. STA 46+80 ON LT.
TYPE C SPECIAL DROP INLET = 5'x4'
L= 3'-0"

STA. 47+54 IN PLACE
CURB INLET ON LT.
18" X 371' R.C. PIPE CULVERT
REMOVE

STA. 49+09 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.3 SQ. YDS

STA. 49+27 CONSTRUCT
DROP INLET 64' LT. H= 4'-0"
18" x 29' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO J.B. STA. 49+25 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 48+88 CONSTRUCT
DROP INLET ON LT. H= 4'-11"
WITH 8' EXTENSION
30" x 50' PIPE CULVERT
TO D.I. STA. 48+35 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 49+25 CONSTRUCT
JUNC. BOX ON LT. H= 4'-2"
30" x 34' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 48+88 ON LT.
TYPE ST JUNC. BOX = 3'x3'

STA. 49+77 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.6 SQ. YDS

℄ HWY. 71B STA. 49+43.97
CONSTRUCT 32' WIDE
STREET RETURN LT.

STA. 49+62 CONSTRUCT
DROP INLET 69' LT. H= 4'-4"
18" x 32' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 49+27 ON LT.
TYPE ST DROP INLET = 3'x3'

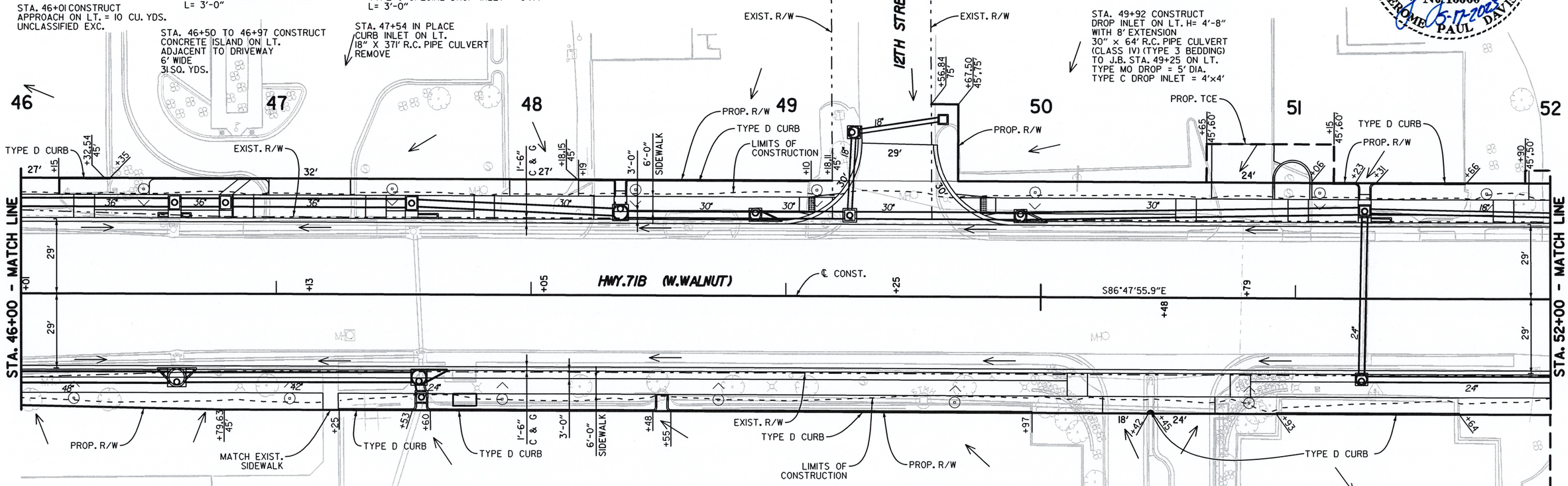
STA. 50+79 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 51+29 IN PLACE
4.4' X 3.4' GRATED INLET ON LT.
18" X 45' R.C. PIPE CULVERT
REMOVE

STA. 51+27 CONSTRUCT
DROP INLET ON LT. H= 4'-10"
WITH 8' EXTENSION
& BACK OPENING
30" x 132' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 49+92 ON LT.
TYPE C SPECIAL DROP INLET = 4'x4'
L= 2'-0"

STA. 49+92 CONSTRUCT
DROP INLET ON LT. H= 4'-8"
WITH 8' EXTENSION
30" x 64' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO J.B. STA. 49+25 ON LT.
TYPE MO DROP = 5' DIA.
TYPE C DROP INLET = 4'x4'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15360
JEROME PAUL DAVIS
5-17-2023



STA. 46+61 CONSTRUCT
DROP INLET ON RT. H= 5'-6"
WITH 2-4' EXTENSIONS
AND 48" x 77' PIPE CULVERT
TO D.I. STA. 45+80 ON RT.
TYPE MO DROP INLET = 6' DIA.
TYPE C DROP INLET = 4'x6'

STA. 46+61 IN PLACE
CURB INLET ON RT.
12" X 94' R.C. PIPE CULVERT
REMOVE

STA. 47+34 IN PLACE
2' X 2' GRATED INLET ON RT.
RETAIN
24" X 76' R.C. PIPE CULVERT
RETAIN & MODIFY
CONNECT TO D.I. ON RT. @ STA. 47+57

STA. 47+56 CONSTRUCT
DROP INLET ON RT. H= 4'-6"
WITH 8' EXTENSION
AND 42" x 91' PIPE CULVERT
TO D.I. STA. 46+61 ON RT.
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 5'x5'

STA. 47+57 CONSTRUCT
DROP INLET ON RT. H= 4'-6"
AND 24" x 4' PIPE CULVERT
TO D.I. STA. 47+56 ON RT.
TYPE C DROP INLET = 4'x4'

STA. 47+57 IN PLACE
CURB INLET ON RT.
18" X 14' R.C. PIPE CULVERT
REMOVE
18" X 46' R.C. PIPE CULVERT
PLUG & ABANDON

STA. 47+57 IN PLACE
CURB INLET ON RT.
REMOVE

STA. 48+51 IN PLACE
DROP INLET ON RT. H= 3'-11"
WITH 30" x 93' R.C. PIPE CULVERT
TO DROP INLET STA. 47+57 ON RT.
RETAIN

STA. 47+74, 30.70' RT. IN PLACE
BUS STOP SHELTER
RELOCATE TO 47+74, 41' RT.

STA. 49+54 IN PLACE
JUNC. BOX ON RT. H= 4'-2"
WITH 18" x 100' R.C. PIPE CULVERT
TO DROP INLET STA. 48+51 ON RT.
RETAIN

STA. 50+48 CONSTRUCT
APPROACH ON RT. = 15 CU. YDS.
UNCLASSIFIED EXC.

CONCRETE DITCH PAVING

STA.	STA.	SIDE	TYPE	"B"	"W"	SQ. YDS.
46+80	46+80	HWY. 71B LT.	SPECIAL	4'-0"	5'-0"	11
47+57	47+57	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	2
48+35	48+35	HWY. 71B LT.	SPECIAL	4'-0"	5'-0"	3
48+51	48+51	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	4
51+27	51+27	HWY. 71B LT.	SPECIAL	4'-0"	5'-0"	4

STA. 50+71 IN PLACE
DROP INLET ON RT. H= 4'-4"
WITH 18" x 114' R.C. PIPE CULVERT
TO JUNC. BOX STA. 49+54 ON RT.
RETAIN

STA. 51+26 CONSTRUCT
DROP INLET ON RT. H= 4'-0"
24" x 59' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 51+27 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 51+27 IN PLACE
CURB INLET ON RT.
18" X 45' R.C. CROSS PIPE
REMOVE

HWY. 71B (W. WALNUT)

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SCALE: 1:39.218
MODEL: PLAN AND PROFILE SHEETS

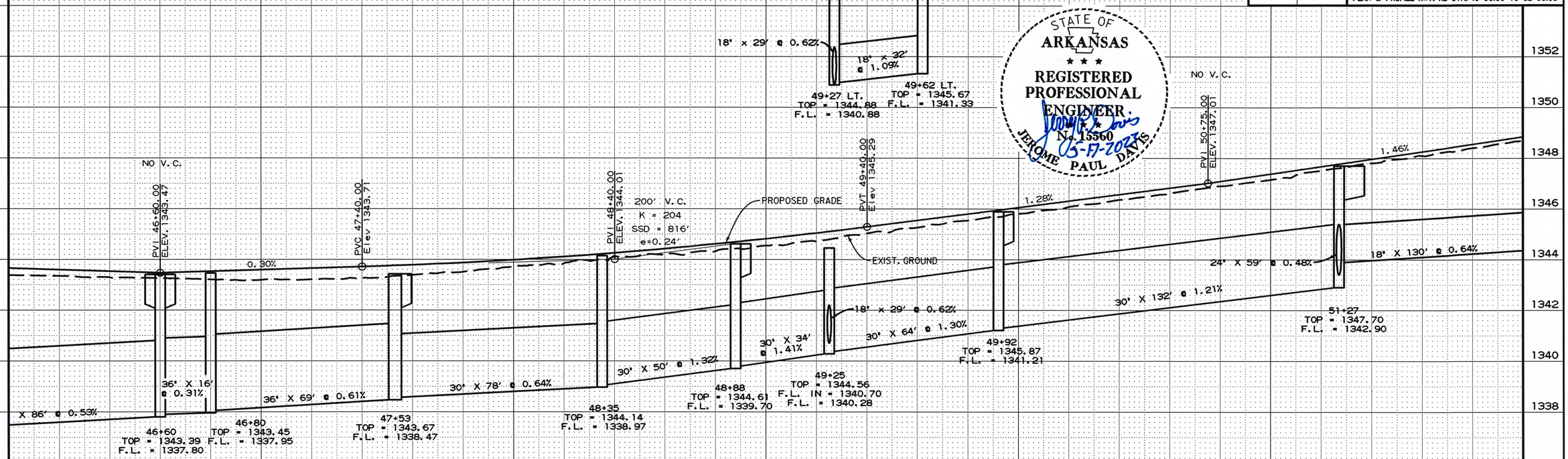
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	90	320

PLAN & PROFILE HWY. 71B STA. 46+00.00 TO 52+00.00

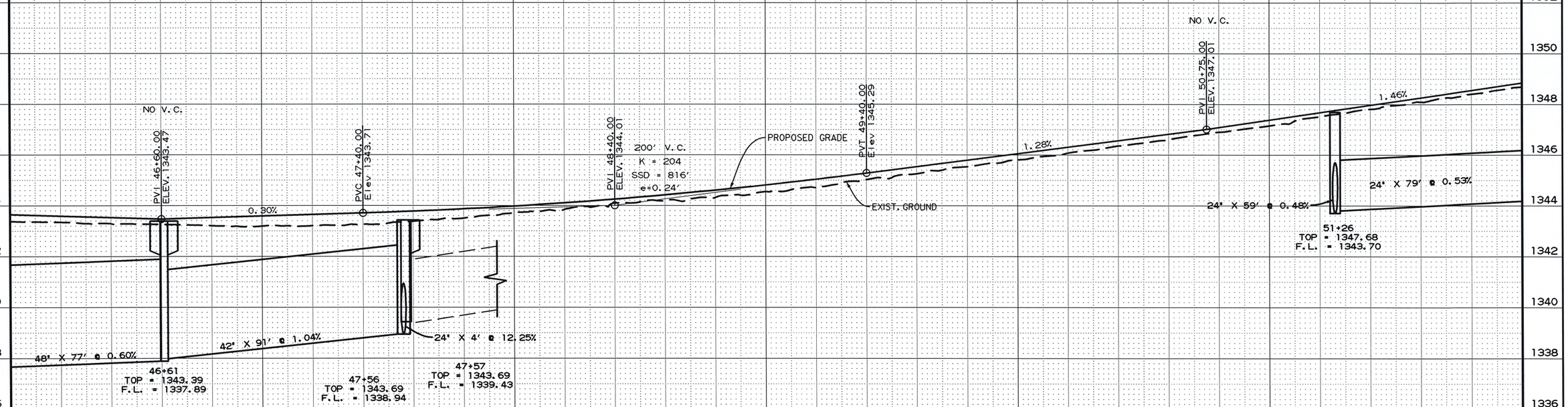
LEFT SIDE OF HWY. 71B

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023



RIGHT SIDE OF HWY. 71B



46+00 47+00 48+00 49+00 50+00 51+00 52+00

HWY. 71B (W. WALNUT)

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PLOTTED: 5/16/2023 16:50
MODEL: PLAN AND PROFILE SHEETS
SCALE: 1:40

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	91	320
		PLAN & PROFILE HWY. 71B STA. 52+00.00 TO 58+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
52+03	53+04	RT.	1
52+12	52+56	RT.	44
53+12	53+13	LT.	19
52+64	53+51	RT.	93
53+37	54+54	LT.	128
53+77	55+17	RT.	140
54+78	56+12	LT.	152
55+35	55+60	RT.	30
55+66	56+02	RT.	41
56+20	56+42	RT.	27
56+46	56+66	RT.	25
56+84	57+08	RT.	26
57+16	57+62	RT.	28
57+47	57+62	LT.	15
57+69	57+95	RT.	95
57+98	58+15	LT.	17

20 10 0 10 20 40

STA. 52+60 CONSTRUCT
DROP INLET ON LT. H= 4'-11"
WITH 8' EXTENSION
AND 18" x 130' PIPE CULVERT
TO D.I. STA. 51+27 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 52+03 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 53+25 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 54+40 CONSTRUCT
CONNECTING DRIVE ON LT. = 5 CU. YDS.
UNCLASSIFIED EXC.

CONSTRUCT APPROACH
CONNECTING PARKING LOT
NORTH EDGE 90' NORTH OF
C.L. 71B

STA. 54+86 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.

STA. 56+06 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.6 SQ. YDS

STA. 56+68 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.6 SQ. YDS

℄ HWY. 71B STA. 56+37.64
CONSTRUCT 26' WIDE
STREET RETURN LT.

STA. 57+12 CONSTRUCT
DROP INLET ON LT. H= 4'-0"
WITH 4' EXTENSION
AND 18" x 229' PIPE CULVERT
TO D.I. STA. 59+44 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STATE OF ARKANSAS
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05-17-2023

52 53 54 55 56 57 58

EXIST. R/W
PROP. TCE
TYPE D CURB
LIMITS OF CONSTRUCTION
PROP. R/W
3'-0" 1'-6" C & G 6'-0" SIDEWALK
11TH STREET

HWY.71B (W.WALNUT)

S86°47'55.9"E
S86°42'25.6"E
℄ CONST.

STA. 52+00 - MATCH LINE
STA. 58+00 - MATCH LINE

20' 18' 25' 18' 18' 18' 18'

75',45.01' 60',45.01' 60',45.01' 55',45' 50',45' 50',45' 50',45' 50',45' 60' 45'

P.I. 54+87.94
Δ = 0°05'30.3"RT

STA. 52+20 CONSTRUCT
CONNECTING DRIVE ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 52+08 CONSTRUCT
DROP INLET ON RT. H= 4'-8"
WITH BACK OPENING
24" x 79' PIPE CULVERT
TO D.I. STA. 51+26 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 52+60 CONSTRUCT
DROP INLET ON RT. H= 4'-6"
WITH 4' EXTENSION & BACK OPENING
AND 18" x 49' PIPE CULVERT
TO D.I. STA. 52+08 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 53+62 CONSTRUCT
APPROACH ON RT. = 17 CU. YDS.
UNCLASSIFIED EXC.

STA. 55+26 CONSTRUCT
APPROACH ON RT. = 20 CU. YDS.
UNCLASSIFIED EXC.

STA. 56+11 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 56+75 CONSTRUCT
APPROACH ON RT. = 15 CU. YDS.
UNCLASSIFIED EXC.

STA. 56+97 IN PLACE
2.5' X 1.5' GRATED INLET ON RT.
24" X 40" X 77' ELLIPTICAL C.M. PIPE CULVERT
REMOVE

STA. 57+12 CONSTRUCT
DROP INLET ON RT. H= 4'-0"
WITH 4' EXTENSION & BACK OPENING
AND 18" x 52' PIPE CULVERT
TO D.I. 57+67 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 57+67 CONSTRUCT
DROP INLET ON RT. H= 5'-0"
WITH 8' EXTENSION & BACK OPENING
AND 24" x 95' R.C. PIPE CULVERT
(CLASS III)(TYPE 2 BEDDING)
TO D.I. 58+65 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 57+75 IN PLACE
2.5' X 1.5' GRATED INLET ON RT.
18" X 11' C.M. PIPE CULVERT
REMOVE

STA. 57+80 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS

STA. 57+80 IN PLACE
CURB INLET ON RT.
18" X 66' R.C. PIPE CULVERT
REMOVE

CONCRETE DITCH PAVING

STA.	STA.	SIDE	TYPE	'B'	'W'	SQ. YDS.
52+08	52+08	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3
52+60	52+60	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3
57+12	57+12	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3
57+62	57+69	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3

HWY. 71B (W. WALNUT)

DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\p&p\Plan-08 HWY71B.dgn MODEL: PLAN AND PROFILE SHEETS
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	92	320
		PLAN & PROFILE HWY. 71B STA. 52+00.00 TO 58+00.00				

STATE OF ARKANSAS
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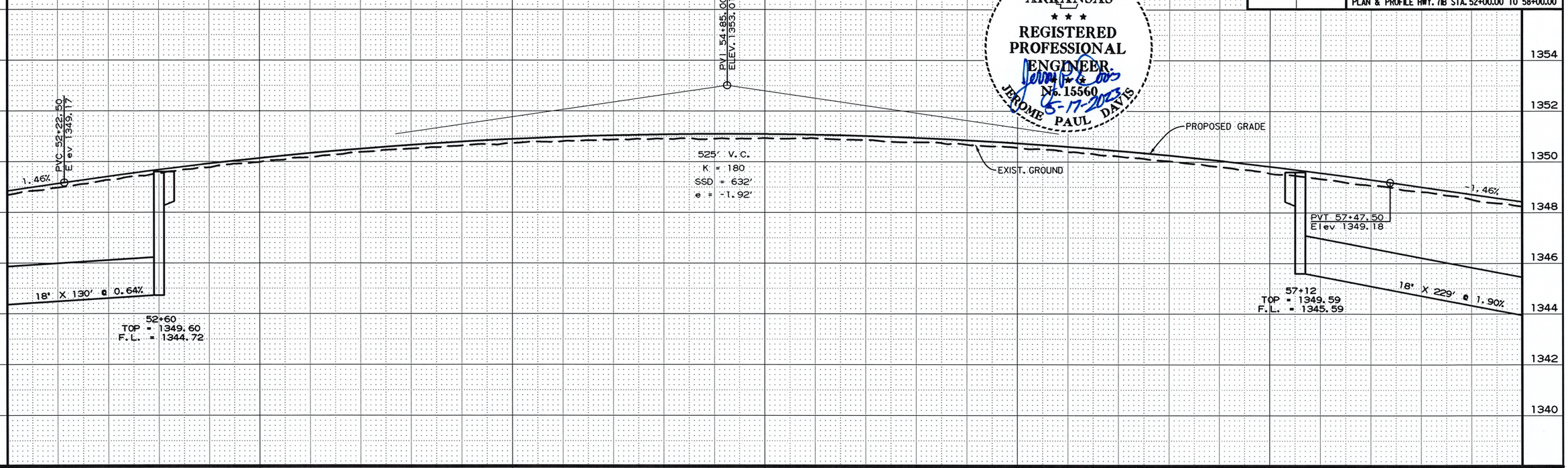
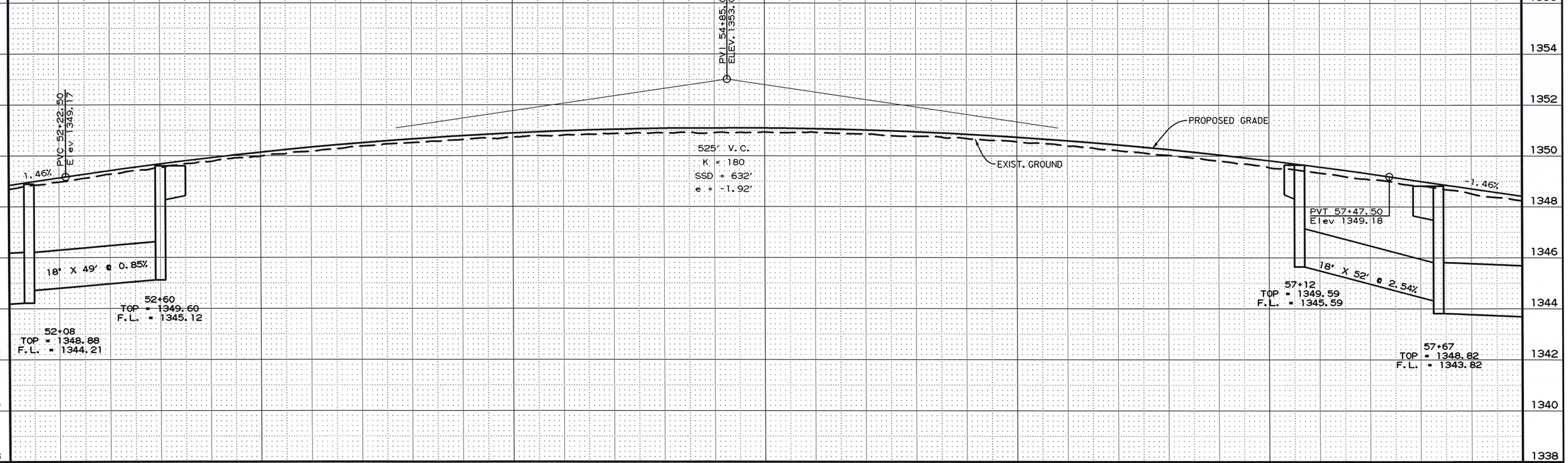
No. 15560
JEROME PAUL DAVIS
5-17-2023

LEFT SIDE OF HWY. 71B

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



RIGHT SIDE OF HWY. 71B



52+00 53+00 54+00 55+00 56+00 57+00 58+00

HWY. 71B (W. WALNUT)

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USER: JJ5206
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MODEL: PLAN AND PROFILE SHEETS
SCALE: 1:40

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	93	320
		PLAN & PROFILE HWY. 71B STA. 58+00.00 TO 64+00.00				

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
58+23	58+48	LT.	25
58+36	59+66	RT.	125
58+53	59+48	LT.	95
60+07	60+30	LT.	37
60+38	61+70	LT.	139
61+43	62+09	RT.	66
61+90	62+32	LT.	53
62+17	63+55	RT.	138
62+79	63+28	LT.	51
63+56	64+18	LT.	65
63+71	64+19	RT.	48

STA. 59+59 IN PLACE
CURB INLET ON LT.
18" X 63' R.C. PIPE CULVERT
REMOVE

STA. 59+58 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.61 SQ. YDS

STA. 59+44 CONSTRUCT
DROP INLET ON LT. H= 5'-6"
WITH 4' EXTENSION
24" x 86' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 60+34 ON LT.
TYPE C SPECIAL DROP INLET = 4'x4'
L= 2'-0"

STA. 60+23 IN PLACE
CURB INLET ON LT.
18" X 187' R.C. PIPE CULVERT
REMOVE

STA. 60+20 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.6 SQ. YDS

℄ HWY. 71B STA. 59+88.31
CONSTRUCT 26' WIDE
STREET RETURN LT.

STA. 60+34 CONSTRUCT
DROP INLET ON LT. H= 5'-5"
WITH BACK OPENING
30" x 108' PIPE CULVERT
TO D.I. STA. 61+45 ON LT.
TYPE C SPECIAL DROP INLET = 4'x4'
L= 2'-0"

STA. 61+45 CONSTRUCT
DROP INLET ON LT. H= 4'-11"
30" x 66' PIPE CULVERT
TO D.I. STA. 62+15 ON LT.
TYPE MO DROP = 5' DIA.
TYPE C DROP INLET = 4'x5'

STA. 61+80 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.

STA. 62+45 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 63+47 IN PLACE
DROP INLET ON LT.
W/ HEADWALL
REMOVE

STA. 62+13 IN PLACE
CURB INLET ON LT.
18" X 127' R.C. PIPE CULVERT
REMOVE

STA. 62+15 CONSTRUCT
DROP INLET ON LT. H= 5'-2"
WITH 8' EXTENSION
51"x 31" x 122' ARCH PIPE CULVERT
TO J.B. STA. 63+45 ON LT.
TYPE MO DROP INLET = 6' DIA.
TYPE C DROP INLET = 4'x4'

STA. 63+76 CONSTRUCT
DROP INLET ON LT. H= 6'-2"
WITH 4' EXTENSION
65"x 40" x 51' R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING)
TO HEADWALL ON LT.
TYPE C DROP INLET = 8'x5'

STA. 63+45 CONSTRUCT
JUNC. BOX ON LT. H= 5'-11"
EXTEND EXIST. 10'x 3' R.C. BOX 10'
FROM D.I. STA. 63+63 ON RT.
WITH 10'x 3' x 42' R.C. BOX
CULVERT TO HEADWALL ON LT.
TYPE ST JUNC. BOX = 15'x5'
10'x 3' R.C. BOX = 52'

STA. 63+43 CONSTRUCT
APPROACH ON LT. = 110 CU. YDS.

STA. 63+60 IN PLACE
DROP INLET ON LT.
REMOVE

STA. 63+32 CONSTRUCT
DROP INLET ON LT. H= 6'-0"
DBL. 65"x 40" x 40' R.C. ARCH PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO HEADWALL ON LT.
TYPE C DROP INLET = 15'x5'

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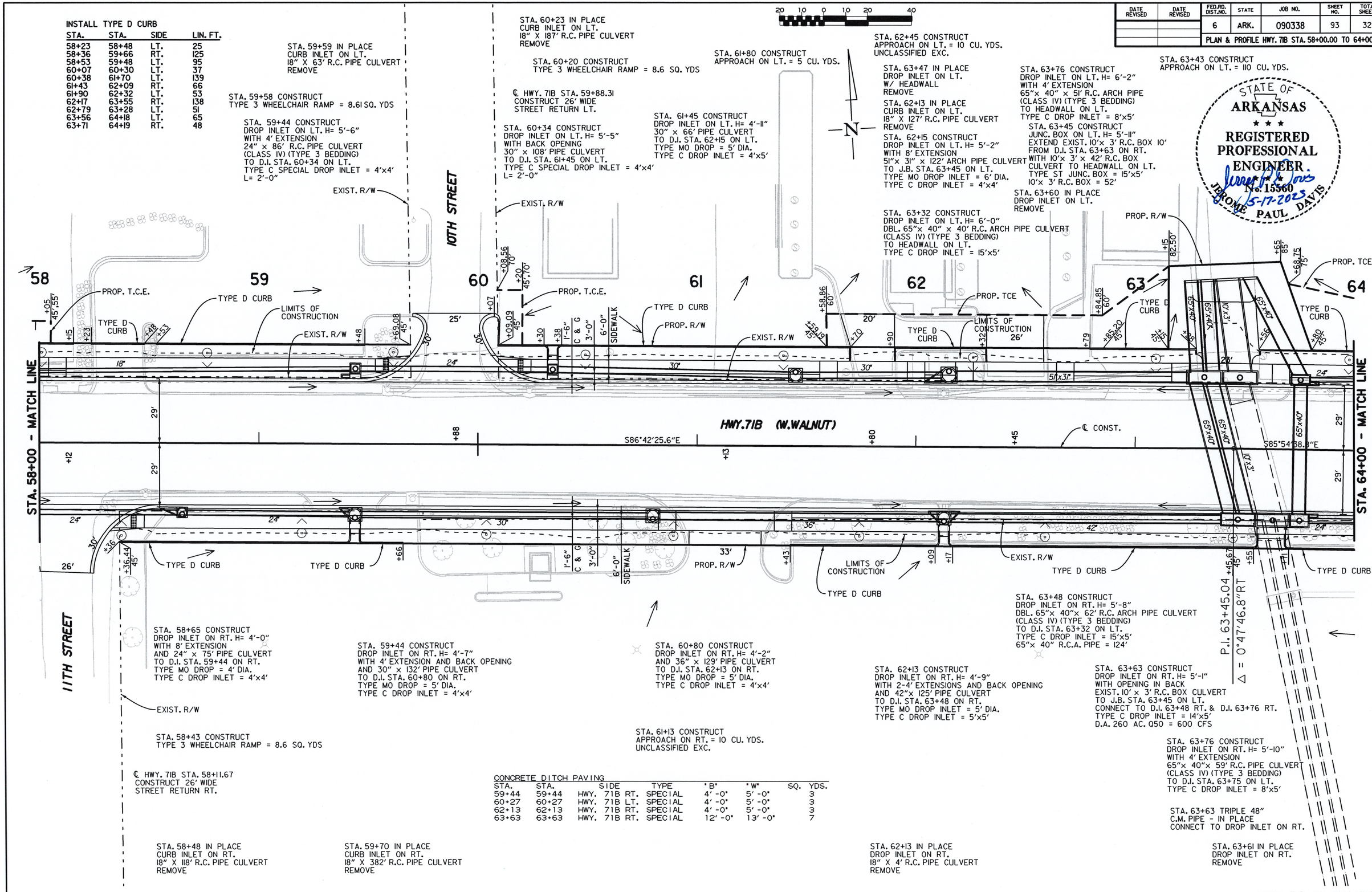

STA. 58+65 CONSTRUCT
DROP INLET ON RT. H= 4'-0"
WITH 8' EXTENSION
AND 24" x 75' PIPE CULVERT
TO D.I. STA. 59+44 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 59+44 CONSTRUCT
DROP INLET ON RT. H= 4'-7"
WITH 4' EXTENSION AND BACK OPENING
AND 30" x 132' PIPE CULVERT
TO D.I. STA. 60+80 ON RT.
TYPE MO DROP = 5' DIA.
TYPE C DROP INLET = 4'x4'

STA. 60+80 CONSTRUCT
DROP INLET ON RT. H= 4'-2"
AND 36" x 129' PIPE CULVERT
TO D.I. STA. 62+13 ON RT.
TYPE MO DROP = 5' DIA.
TYPE C DROP INLET = 4'x4'

STA. 63+48 CONSTRUCT
DROP INLET ON RT. H= 5'-8"
DBL. 65"x 40"x 62' R.C. ARCH PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 63+32 ON LT.
TYPE C DROP INLET = 15'x5'
65"x 40" R.C.A. PIPE = 124'

STA. 58+43 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.6 SQ. YDS

℄ HWY. 71B STA. 58+11.67
CONSTRUCT 26' WIDE
STREET RETURN RT.

STA. 61+13 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

CONCRETE DITCH PAVING

STA.	STA.	SIDE	TYPE	'B'	'W'	SQ. YDS.
59+44	59+44	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3
60+27	60+27	HWY. 71B LT.	SPECIAL	4'-0"	5'-0"	3
62+13	62+13	HWY. 71B RT.	SPECIAL	4'-0"	5'-0"	3
63+63	63+63	HWY. 71B RT.	SPECIAL	12'-0"	13'-0"	7

STA. 62+13 CONSTRUCT
DROP INLET ON RT. H= 4'-9"
WITH 2-4' EXTENSIONS AND BACK OPENING
AND 42"x 125' PIPE CULVERT
TO D.I. STA. 63+48 ON RT.
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 5'x5'

STA. 63+63 CONSTRUCT
DROP INLET ON RT. H= 5'-1"
WITH OPENING IN BACK
EXIST. 10' x 3' R.C. BOX CULVERT
TO J.B. STA. 63+45 ON LT.
CONNECT TO D.I. 63+48 RT. & D.I. 63+76 RT.
TYPE C DROP INLET = 14'x5'
D.A. 260 AC. Q50 = 600 CFS

STA. 63+76 CONSTRUCT
DROP INLET ON RT. H= 5'-10"
WITH 4' EXTENSION
65"x 40"x 59' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 63+75 ON LT.
TYPE C DROP INLET = 8'x5'

STA. 63+63 TRIPLE 48"
C.M. PIPE - IN PLACE
CONNECT TO DROP INLET ON RT.

STA. 58+48 IN PLACE
CURB INLET ON RT.
18" X 118' R.C. PIPE CULVERT
REMOVE

STA. 59+70 IN PLACE
CURB INLET ON RT.
18" X 382' R.C. PIPE CULVERT
REMOVE

STA. 62+13 IN PLACE
DROP INLET ON RT.
18" X 4' R.C. PIPE CULVERT
REMOVE

STA. 63+63 IN PLACE
DROP INLET ON RT.
REMOVE

HWY. 71B (W. WALNUT)

DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\p&p\Plan-09 HWY71B.dgn
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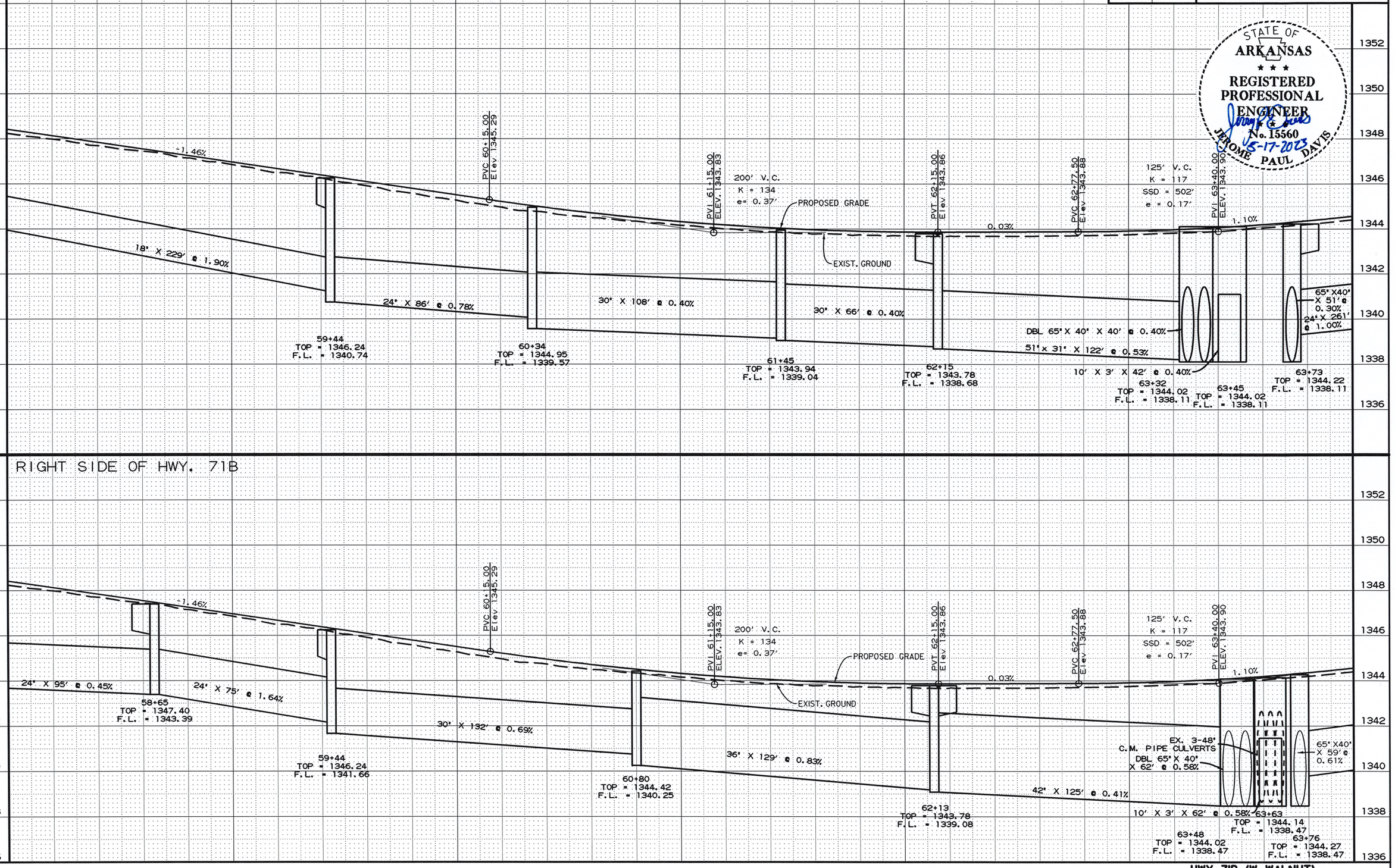
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	94	320
		PLAN & PROFILE HWY. 71B STA. 58+00.00 TO 64+00.00				

LEFT SIDE OF HWY. 71B

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



RIGHT SIDE OF HWY. 71B

58+00 59+00 60+00 61+00 62+00 63+00 64+00

HWY. 71B (W. WALNUT)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\p&p\Prof-09 HWY71B.dgn MODEL: PLAN AND PROFILE SHEETS
PLOTTED: 5/16/2023 16:51 SCALE: 1:40

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	95	320

PLAN & PROFILE HWY. 71B STA. 64+00.00 TO 70+00.00

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

20 10 0 10 20 40

N

STA. 65+61 ON LT.
CONSTRUCT TYPE 3
WHEELCHAIR RAMP = 10.8 SQ. YDS

EXIST. R/W

STA. 64+56 CONSTRUCT
APPROACH ON LT. = 23.9 CU. YDS.

STA. 65+30 CONSTRUCT
APPROACH ON LT. = 18.5 CU. YDS.

℄ HWY. 71B STA. 65+93.35
CONSTRUCT 28' WIDE
STREET RETURN LT.

STA. 66+28 ON LT.
CONSTRUCT TYPE 3
WHEELCHAIR RAMP = 8.6 SQ. YDS

STA. 67+70 CONSTRUCT
APPROACH ON LT. = 45 CU. YDS.
UNCLASSIFIED EXC.

STA. 68+45 CONSTRUCT
DROP INLET ON LT. H= 5'-4"
WITH 8' EXTENSION
18" x 201' PIPE CULVERT
TO D.I. STA. 66+41 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 66+41 CONSTRUCT
DROP INLET ON LT. H= 5'-4"
WITH 8' EXTENSION & BACK OPENING
24" x 261' R.C. PIPE CULVERT
(CLASS IV) (TYPE 3 BEDDING)
TO D.I. STA. 63+73 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 69+09 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 3.4 SQ. YDS

9TH STREET

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ HWY. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

SH. 94 (N. 8TH)

N03°42'56.6"W

PROP. R/W

PROP. TCE

NEW CURB & GUTTER
(TYPE A, 2'-0")

TYPE D CURB

SIDEWALK

LIMITS OF CONSTRUCTION

270' TAPER

61' TAPER

CONCRETE ISLAND CURB FACE TYPE A

P.T. = STA. 69+84.11 (HWY 71B)
Δ = 97°00'39.2"RT.

P.C. = 69+84.11 (HWY. 71)
Δ = 06°12'36.1"RT.

S86°42'17.4"E

S85°54'38.8"E

℄ CONST.

HWY. 71B (W. WALNUT)

STA. 64+00 - MATCH LINE

STA. 70+00 - MATCH LINE

P.I. 68+78.32
Δ = 0°47'38.7"LT

P.I. 70+28.51
Δ = 06°12'36.1"RT.

P.T. 70+72.82

120' TAPER

EXIST. R/W

PROP. R/W

DROP INLET
TOP = 1343.87
FL = 1339.68

CURB INLET
TOP = 1346.06
FL = 1340.80

12" HDPE

STA. 64+56 CONSTRUCT
APPROACH ON RT. = 15 CU. YDS.
UNCLASSIFIED EXC.

STA. 66+17 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 66+33 CONSTRUCT
DROP INLET ON RT. H= 3'-10"
WITH 4' EXTENSION
AND 24" x 252' PIPE CULVERT
TO D.I. STA. 63+76 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 67+10 CONSTRUCT
JUNC. BOX ON RT. H= 3'-9"
AND 24" x 74' PIPE CULVERT
TO D.I. STA. 66+33 ON RT.
TYPE E JUNC. BOX = 4'x4'

STA. 68+45 CONSTRUCT
DROP INLET ON RT. H= 4'-4"
WITH 8' EXTENSION
24" x 132' PIPE CULVERT
TO J.B. STA. 67+10 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

℄ CONST. HWY. 71B
CURVE DATA
P.I. STA. 70+28.51
Δ = 6°12'36.1" RT.
D = 7°00'00.0"
T = 44.40'
L = 88.71'
P.C. STA. 69+84.11
P.T. STA. 70+72.82

STA. 69+19 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 3.4 SQ. YDS

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
65+41	65+64	LT.	42
66+20	67+55	LT.	146
67+85	68+85	LT.	100

CONCRETE DITCH PAVING (TYPE A)

STA.	STA.	SIDE	"B"	"W"	SQ. YDS.
66+20	66+43	HWY. 71B LT. -CONC. FLUME	4'-0"	5'-0"	11

HWY. 71B (S. 8TH)

S02°29'39.4"W

USER: JJ5206
DESIGN FILE: G:\111061.00_Walnut St\TRANSP\dgn\p&p\Plan-10 HWY71B.dgn
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MODEL: PLAN AND PROFILE SHEETS
SCALE: 1:40

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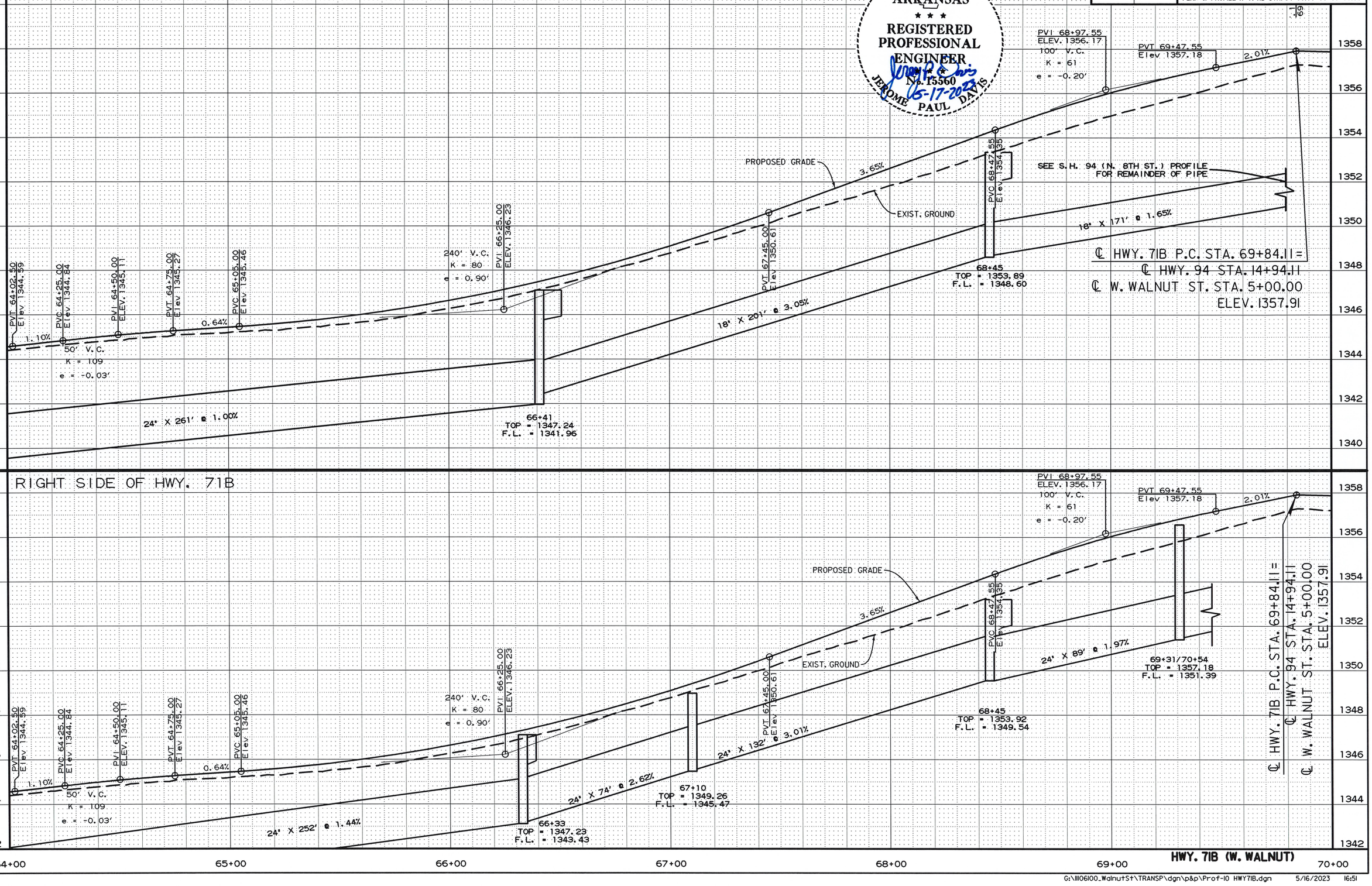
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	96	320
		PLAN & PROFILE HWY. 71B STA. 64+00.00 TO 70+00.00				

LEFT SIDE OF HWY. 71B

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023



RIGHT SIDE OF HWY. 71B

64+00 65+00 66+00 67+00 68+00 69+00 70+00

HWY. 71B (W. WALNUT)

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USER: JJ5206
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\p&p\Prof-10 HWY71B.dgn
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MODEL: PLAN AND PROFILE SHEETS
SCALE: 1:40

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	97	320
		PLAN & PROFILE HWY. 71B STA. 70+00.00 TO 75+00.00				

20 10 0 10 20 40

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

W.WALNUT STREET

STA. 70+00 - MATCH LINE

HWY.71B (W.WALNUT)

STA. 70+70 CONSTRUCT JUNC. BOX ON LT. H= 5'-9" AND 24" x 126' OUTLET (CLASS IV)(TYPE 3 BEDDING) TO J.B. STA. 70+54 ON RT. TYPE E JUNC. BOX = 4'x4'

STA. 71+75 CONSTRUCT APPROACH ON LT. = 25 CU. YDS. UNCLASSIFIED EXC.

STA. 73+03 IN PLACE CURB INLET ON LT. 2' X 2' GRATED INLET ON LT. 18" X 80' R.C. PIPE CULVERT 18" X 16' R.C. PIPE CULVERT REMOVE

STA. 73+84 IN PLACE CURB INLET ON LT. 18" X 136' R.C. PIPE CULVERT 18" X 18' R.C. PIPE CULVERT REMOVE

STA. 73+82 IN PLACE 2' X 2' GRATED INLET ON LT. RETAIN AND MODIFY CONNECT TO D.I. ON J.B. @ STA. 73+84 ON LT.

STA. 75+23 IN PLACE CURB INLET ON LT. RETAIN & MODIFY CONNECT TO D.I. ON LT. @ STA. 73+97

STA. 70+58 CONSTRUCT TYPE 3 WHEELCHAIR RAMP = 3.3 SQ. YDS

STA. 71+39 CONSTRUCT DROP INLET ON LT. H= 5'-6" WITH 2-4' EXTENSIONS AND 18" x 69' PIPE CULVERT TO J.B. STA. 70+70 ON LT. TYPE MO DROP = 4' DIA. TYPE C DROP INLET = 4'x4'

STA. 73+03 CONSTRUCT DROP INLET ON LT. H= 2'-5" WITH 4' EXTENSION AND OPENING IN BACK 22"x 14" x 90' ARCH PIPE CULVERT TO D.I. STA. 73+97 ON LT. TYPE MO DROP = 4' DIA. TYPE C DROP INLET = 4'x4'

STA. 73+84 CONSTRUCT JUNC. BOX 44' LT. H= 2'-10" AND 18" x 17' PIPE CULVERT TO D.I. STA. 73+97 ON LT. TYPE E JUNC. BOX = 4'x4'

STA. 73+97 CONSTRUCT DROP INLET ON LT. H= 3'-3" WITH 4' EXTENSION 22"x 14" x 124' ARCH PIPE CULVERT TO EXIST. D.I. STA. 75+23 ON LT. TYPE C DROP INLET = 4'x5'

120'-0" TAPER

60' TAPER

225' TAPER

71

72

73

74

PROP. TCE

PROP. R/W

TYPE D CURB

LIMITS OF CONSTRUCTION

EXIST. R/W

STA. 73+61 CONSTRUCT APPROACH ON LT. = 5 CU. YDS. UNCLASSIFIED EXC.

6'-0" SIDEWALK

1'-6" C & G

3'-0"

22'-0"

70'R

300'R

24'

40'

22"x14"

P.I. 70+28.51
Δ=06°12'36.1"RT.

CONCRETE ISLAND CURB FACE TYPE A

HWY.71B (S.8TH)

℄ CONST.

S02°29'39.4"W

100'-0" TRANSITION

MATCH EXISTING 25'-0"

STA. 75+00.00
END JOB 090338

P.T. 70+72.82

59' TAPER

61' TAPER

36'

℄ CONST. HWY. 71B
CURVE DATA
P.I. STA. 70+28.51
Δ = 6°12'36.1" RT.
D = 7°00'00.0"
T = 44.40'
L = 88.71'
P.C. STA. 69+84.11
P.T. STA. 70+72.82
Ls = 332.5'
e = 0.04 '/'

STA. 71+00 CONSTRUCT DROP INLET ON RT. H= 5'-0" WITH 2-4' EXTENSIONS AND 18" x 45' PIPE CULVERT TO J.B. STA. 70+54 ON RT. TYPE MO DROP = 4' DIA. TYPE C DROP INLET = 4'x4'

STA. 70+54 CONSTRUCT JUNC. BOX ON RT. H= 5'-9" 24" x 89' PIPE CULVERT TO D.I. STA. 68+45 ON RT. TYPE E JUNC. BOX = 5'x5'

STA. 69+19 CONSTRUCT TYPE 3 WHEELCHAIR RAMP = 3.4 SQ. YDS

STA. 72+63 CONSTRUCT APPROACH ON RT. = 20 CU. YDS. UNCLASSIFIED EXC.

STA. 74+75 CONSTRUCT APPROACH ON RT. = 15 CU. YDS. UNCLASSIFIED EXC.

STA. 73+02 CONSTRUCT DROP INLET ON RT. H= 2'-2" WITH 4' EXTENSION 22"x 14" x 394' ARCH PIPE CULVERT TO EXIST. D.I. STA. 76+98 ON RT. TYPE MO DROP = 4' DIA. TYPE C DROP INLET = 4'x4'

STA. 73+02 IN PLACE CURB INLET ON RT. 18" X 393 R.C. PIPE CULVERT REMOVE

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
71+88	73+41	LT.	154
74+65	74+88	LT.	23

HWY. 71B (W. WALNUT)

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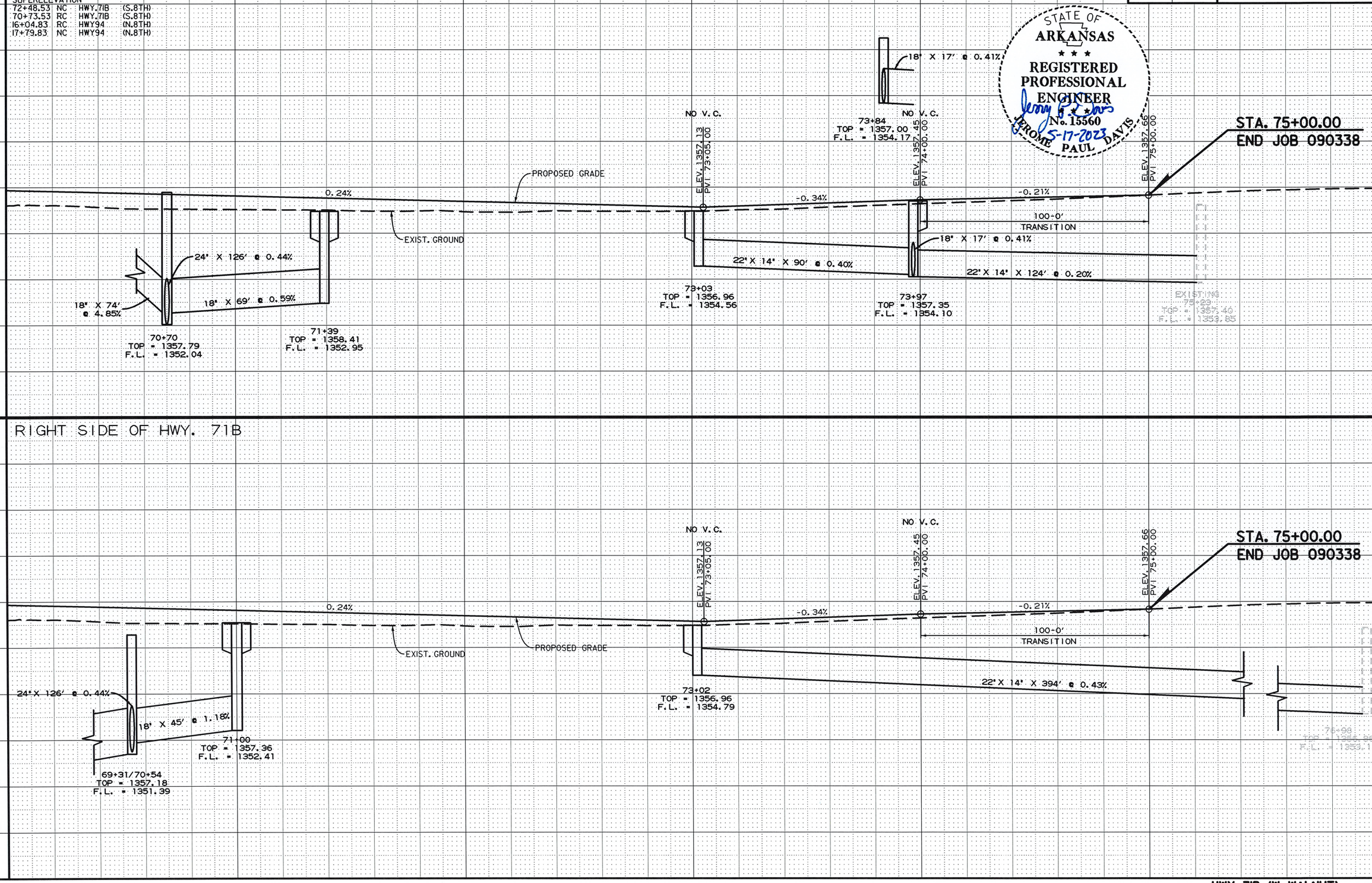
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	98	320
		PLAN & PROFILE HWY. 71B STA. 70+00.00 TO 75+00.00				

LEFT SIDE OF HWY. 71B

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

SUPERELEVATION
72+48.53 NC HWY.71B (S.8TH)
70+73.53 RC HWY.71B (S.8TH)
16+04.83 RC HWY94 (N.8TH)
17+79.83 NC HWY94 (N.8TH)



STATE OF ARKANSAS
★ ★ ★
REGISTERED PROFESSIONAL ENGINEER
Jerry P. Davis
No. 15560
5-17-2023
JEROME PAUL DAVIS

RIGHT SIDE OF HWY. 71B

70+00 71+00 72+00 73+00 74+00 75+00 76+00

HWY. 71B (W. WALNUT)

DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\p&p\Prof-ll HWY71B.dgn MODEL: PLAN AND PROFILE SHEETS
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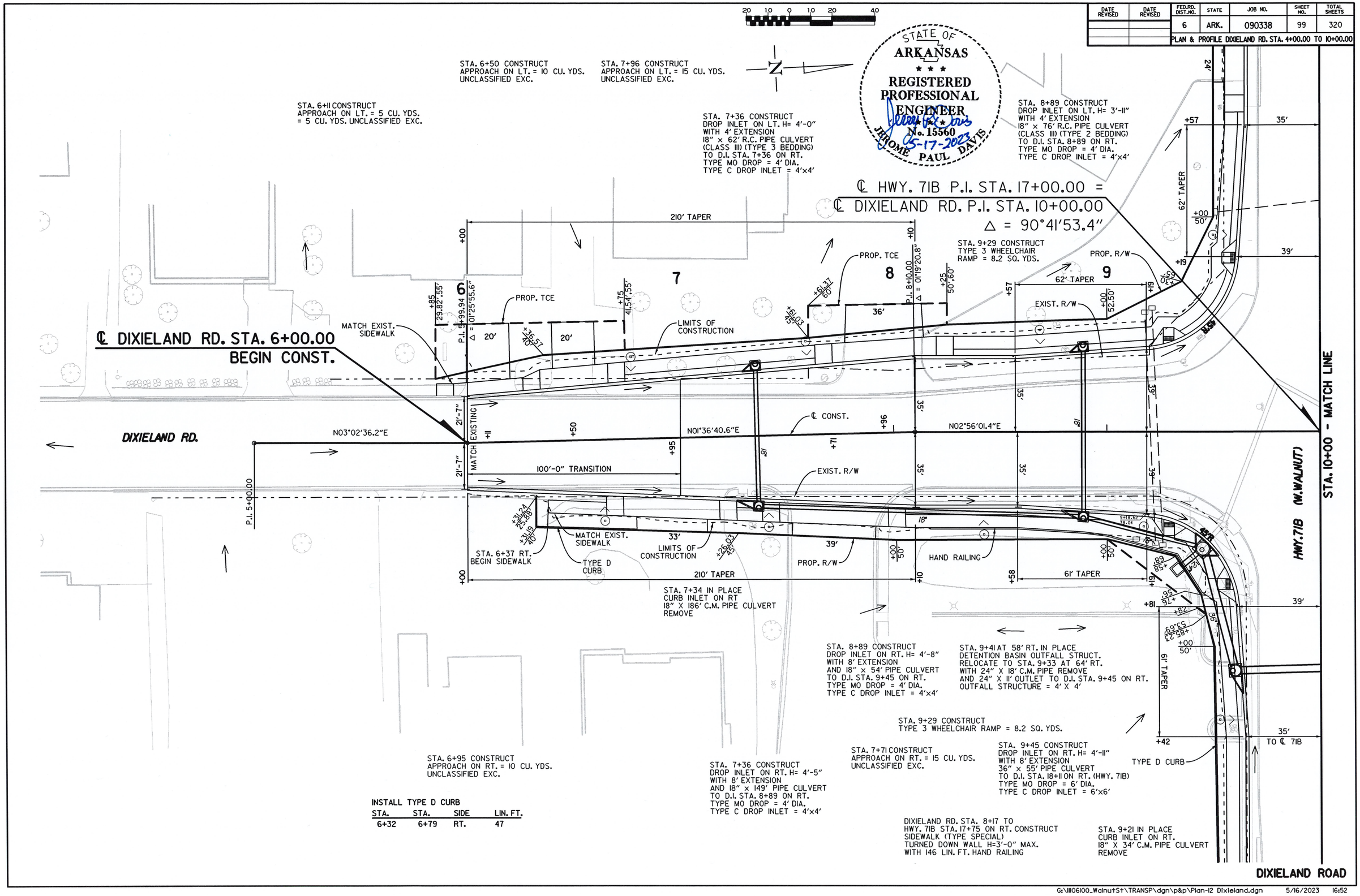
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	99	320

PLAN & PROFILE DIXIELAND RD. STA. 4+00.00 TO 10+00.00



INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
6+32	6+79	RT.	47

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\p&p\Plan-12 Dixieland.dgn
PLOTTED: 5/16/2023 16:52
SCALE: 1:40
MODEL: PLAN AND PROFILE SHEETS

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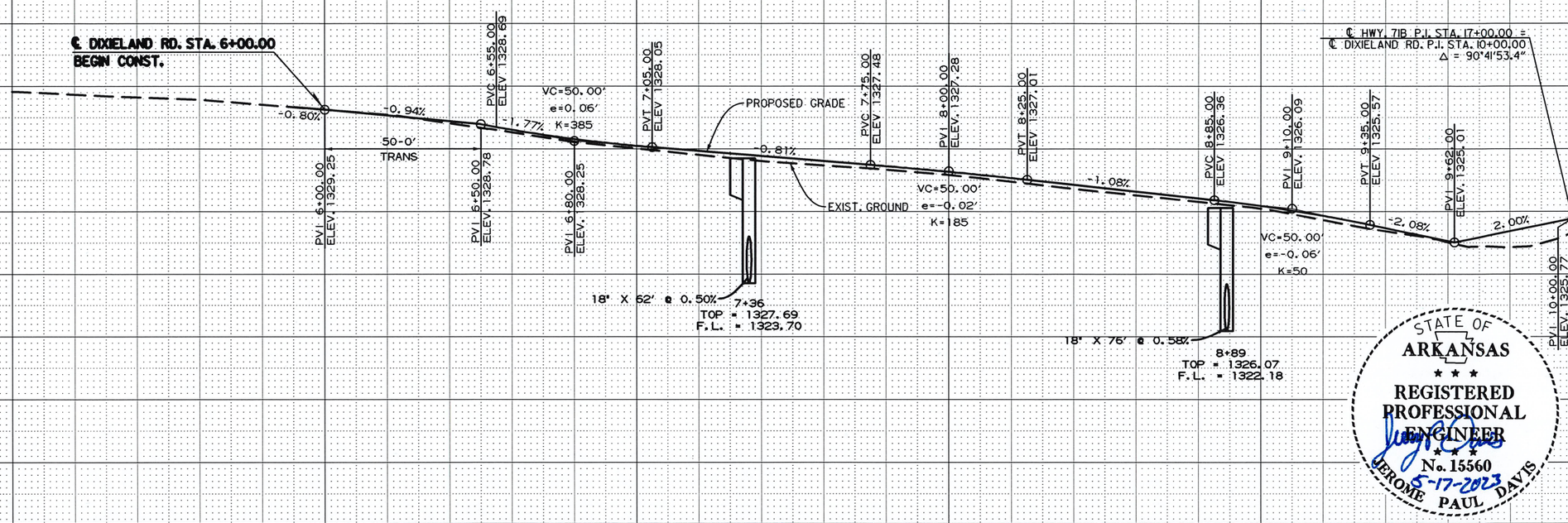
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	100	320

PLAN & PROFILE DIXIELAND RD. STA. 4+00.00 TO 10+00.00

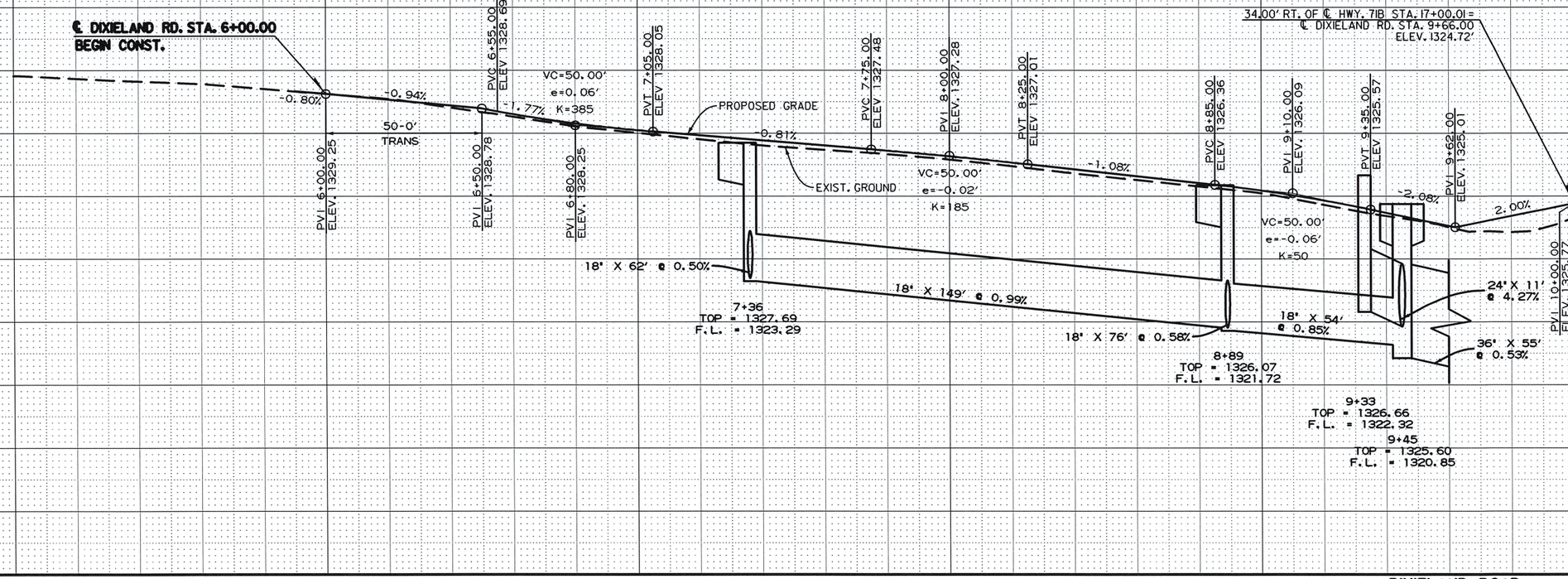
LEFT SIDE OF DIXIELAND RD.

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



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

RIGHT SIDE OF DIXIELAND RD.



4+00 5+00 6+00 7+00 8+00 9+00 10+00

DIXIELAND ROAD

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutST\TRANSP\dgn\p&p\Prof-12 Dixieland.dgn
PLOTTED: 5/16/2023 16:52
MODEL: PLAN AND PROFILE SHEETS
SCALE: 1:40

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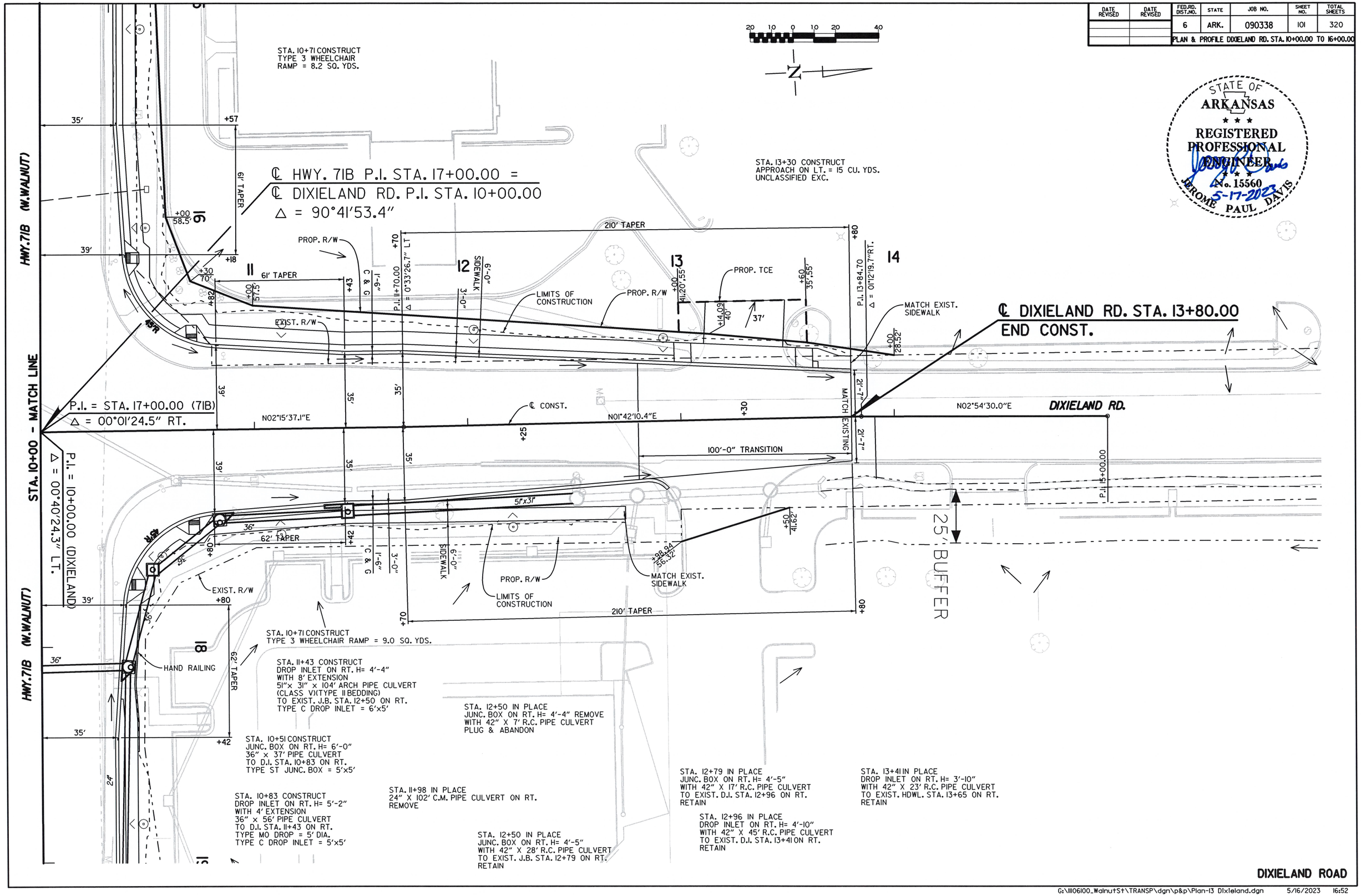
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	101	320

PLAN & PROFILE DIXIELAND RD. STA. 10+00.00 TO 16+00.00



DIXIELAND ROAD

DESIGN FILE: G:\11106100_WalnutSt\TRANSP\dgn\p&p\Plan-13 Dixieland.dgn
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SCALE: 1:39.2118
MODEL: PLAN AND PROFILE SHEETS

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RIGHT SIDE OF DIXIELAND RD.

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

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	102	320

PLAN & PROFILE DIXIELAND RD. STA. 10+00.00 TO 16+00.00

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

℄ HWY. 71B P.I. STA. 17+00.00 =
℄ DIXIELAND RD. P.I. STA. 10+00.00
△ = 90°41'53.4"

PROPOSED GRADE

-2.00%

PVI 10+00.00
ELEV. 1325.77

36" X 37'
@ 1.35%

10+51
TOP = 1325.59
F.L. = 1319.59

36" X 56' @ 0.82%

10+83
TOP = 1324.09
F.L. = 1318.99

11+43
TOP = 1322.76
F.L. = 1318.43

EXIST. GROUND

51"X 31" X 104' @ 0.30%

PVC 12+07.50
ELEV 1321.62

VC=110.00'
e=0.20'
K=75

PVI 12+62.50
ELEV. 1320.52

PVT 13+17.50
ELEV 1320.23

PVI 13+30.00
ELEV. 1320.16

-0.53%

-0.88%

PVI 13+80.00
ELEV. 1319.72

-0.60%

℄ DIXIELAND RD. STA. 13+80.00
END CONST.

50-0'
TRANS

PVI 13+90.00
ELEV. 1319.66

1330 1328 1326 1324 1322 1320 1318 1316 1314 1312 1310

10+00 11+00 12+00 13+00 14+00 15+00 16+00

DIXIELAND ROAD

USER: JJ5206
DESIGN FILE: G:\1106100_WalnutSt\TRANSP\dgn\p&p\Prof-13 Dixieland.dgn
PLOTTED: 5/16/2023 16:52
MODEL: PLAN AND PROFILE SHEETS
SCALE: 1:40

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	103	320

PLAN & PROFILE 13TH ST. STA. 12+00.00 TO 18+00.00

STA. 13+59 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 5.4 SQ. YDS

STA. 13+74 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
UNCLASSIFIED EXC.

STA. 13+95 CONSTRUCT
DROP INLET ON LT. H= 4'-0"
WITH 4' EXTENSION
18" x 46' PIPE CULVERT
TO D.I. STA. 14+44 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 14+44 CONSTRUCT
DROP INLET ON LT. H= 4'-0"
WITH BACK OPENING
AND 18" x 59' PIPE CULVERT
TO D.I. STA. 42+42 ON RT. (HWY. 7IB)
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 13+85 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 4.9 SQ. YDS

℄ 13TH ST. STA. 13+55.00
BEGIN CONST.

S.13TH STREET

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
13+83	14+35	LT.	58
15+55	16+60	LT.	112
15+59	16+77	RT.	122
16+85	17+25	RT.	42
16+90	17+25	LT.	38

STA. 13+10 CONSTRUCT
DROP INLET ON RT. H= 4'-0"
WITH 8' EXTENSION & BACK OPENING
AND 18" x 80' PIPE CULVERT
TO D.I. STA. 13+93 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 13+65 CONSTRUCT
YARD DRAIN ON RT. H= 2'-1"
WITH 12" x 28' SIDE DRAIN
TO D.I. STA. 13+93 ON RT.

STA. 14+21 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
= 10 CU. YDS. UNCLASSIFIED EXC.

STA. 13+93 CONSTRUCT
DROP INLET ON RT. H= 4'-1"
WITH 8' EXTENSION
18" x 49' PIPE CULVERT
TO J.B. STA. 14+44 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 14+01 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 7.1 SQ. YDS

STA. 14+40 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 6.7 SQ. YDS

STA. 14+44 CONSTRUCT
JUNCTION BOX ON RT. H = 4'-0"
AND 18" X 39' PIPE CULVERT
TO D.I. STA. 14+68 ON RT.
TYPE E JUNC. BOX = 3' X 3'

P.I. = 15+00.00 (13TH ST.)
Δ = 00°26'23.1" LT.

S87°03'49.0"E

STA. 15+83 CONSTRUCT
DROP INLET ON LT. H= 4'-8"
18" x 40' R.C. PIPE CULVERT
(CLASS III) (TYPE 2 BEDDING)
TO J.B. STA. 42+92 ON LT. (HWY. 7IB)
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

℄ HWY. 7IB P.I. STA. 43+26.63 =
℄ 13TH ST. P.I. STA. 15+00.00
Δ = 90°42'06.3"

P.I. = STA. 43+26.63 (7IB)
Δ = 00°15'53.1"RT.

STA. 17+08 IN PLACE
DROP INLET ON LT.
ADJUST TO GRADE
WITH BACK OPENING
H= 3'-10"

STA. 17+80 IN PLACE
DROP INLET ON LT. H= 3'-7"
TO REMAIN

STA. 16+47 CONSTRUCT
DROP INLET ON LT. H= 3'-7"
AND 18" x 58' PIPE CULVERT
TO EXIST. D.I. STA. 17+08 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

N.13TH STREET

N02°29'57.9"E

℄ 13TH ST.
STA. 17+20.00
END CONST.

HWY. 7IB (N.WALNUT)

STA. 15+83 CONSTRUCT
DROP INLET ON RT. H= 4'-3"
18" x 50' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. STA. 15+83 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 16+94 IN PLACE
24" X 54' R.C. PIPE CULVERT
RETAIN

STA. 16+80 IN PLACE
DROP INLET ON RT.
ADJUST TO GRADE
WITH BACK OPENING
H= 3'-7"

13TH STREET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
JEROME PAUL DAVIS
No. 15560
5-17-2023

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

28.00' RT. OF ℄ 7IB STA.43+26.76=
℄ 13TH ST. STA. 14+72, ELEV. 1342.92
28.00' LT. OF ℄ 7IB STA.43+26.42=
℄ 13TH ST. STA. 15+28, ELEV. 1342.92

CONCRETE DITCH PAVING (TYPE A)

STA.	STA.	SIDE	"B"	"W"	SQ. YDS.
14+36	14+40	13TH ST. LT. - CONC. FLUME	4'-0"	5'-0"	3
16+80	16+80	13TH ST. RT. - CONC. FLUME	4'-0"	5'-0"	2

LEFT SIDE OF 13TH ST.

℄ 13TH STR. STA. 13+55.00
BEGIN CONST.

13+10 RT
TOP = 1345.05
F.L. = 1341.05

18" X 80' @ 0.64%

12" X 28' @ 11.50%

13+65
TOP = 1345.15
F.L. = 1343.07

13+93
TOP = 1344.44
F.L. = 1340.35

18" X 49' @ 1.94%

13+95
TOP = 1344.30
F.L. = 1340.40

18" X 46' @ 1.13%

14+44
TOP = 1343.60
F.L. = 1339.78

18" X 59' @ 2.39%

14+44
TOP = 1343.30
F.L. = 1339.30

18" X 39' @ 0.88%

14+68
TOP = 1343.64
F.L. = 1336.64

18" X 40' @ 1.68%

15+83
TOP = 1341.83
F.L. = 1337.43

18" X 50' @ 0.64%

15+83
TOP = 1341.84
F.L. = 1337.85

18" X 50' @ 0.64%

16+47
TOP = 1341.23
F.L. = 1337.81

18" X 58' @ 1.03%

17+08
EXIST. TOP = 1340.70
NEW TOP = 1340.98
F.L. = 1337.00

EXISTING 24" X 68' @ 0.81%

17+80
TOP = 1340.64
F.L. = 1337.11

EXISTING 24" X 54' @ 0.83%

16+80
EXIST. TOP = 1340.71
NEW TOP = 1341.10
F.L. = 1337.57

EXISTING 24" X 142' @ 0.46%

PVI 13+50.00 ELEV. 1344.96
PVI 13+55.00 ELEV. 1344.87
PVC 13+80.00 ELEV 1344.44
PVI 14+05.00 ELEV. 1344.01
PVT 14+30.00 ELEV 1343.40
PVI 14+59.52 ELEV. 1342.67
PVI 15+00.00 ELEV. 1343.48
PVC 15+75.00 ELEV 1341.98
PVI 16+00.00 ELEV. 1341.48
PVI 16+25.00 ELEV. 1341.34
PVI 16+70.00 ELEV. 1341.09
PVI 17+20.00 ELEV. 1340.85
PVI 17+30.00 ELEV. 1340.82

-1.80% -1.72% -2.46% 2.00% -2.00% -0.56% -0.48% -0.30%

50'-0" TRANS
VC=50.00'
e=-0.05'
K=68

VC=50.00'
e=0.09'
K=35

EXIST. GROUND
PROPOSED GRADE

48" X 66' @ 1.89%

℄ 13TH ST. STA.
17+20.00
END CONST.

1352 1350 1348 1346 1344 1342 1340 1338 1336

12+00 13+00 14+00 15+00 16+00 17+00 18+00

USER: JJ5206
DESIGN FILE: G:\III06100_Walnut St\TRANSP\dgn\p&p\Plan-14 13th St.dgn
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SCALE: 1:40

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	104	320
		PLAN & PROFILE HWY. 94 STA. 15+00.00 TO 20+00.00				

20 10 0 10 20 40

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER.
No. 15560
JEROME PAUL DAVIS
5-17-2023

℄ CHESTNUT ST.
CONSTRUCT APPROACH
ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 19+56 IN PLACE
CURB INLET ON LT. H= 4'-0"
MODIFY TO DROP INLET
H= 3'-6"
TYPE ST DROP INLET = 4'x4'

STA. 18+62 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.5 SQ. YDS.

STA. 18+04 IN PLACE
CURB INLET ON LT.
18" X 153' R.C. PIPE CULVERT
REMOVE

STA. 17+92 CONSTRUCT
DROP INLET ON LT. H= 5'-0"
WITH 4' EXTENSION
AND 18" X 165' PIPE CULVERT
TO EXIST. D.I. STA. 19+56 ON LT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET= 4' X 4'

STA. 18+00 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 11.2 SQ. YDS.

SUPERELEVATION

72+48.53	NC	HWY.71B	(S.8TH)
70+73.53	RC	HWY.71B	(S.8TH)
16+04.83	RC	HWY94	(N.8TH)
17+59.83	NC	HWY94	(N.8TH)

STA. 16+73 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 17+30 CONSTRUCT
APPROACH ON RT. = 35 CU. YDS.
UNCLASSIFIED EXC.

STA. 18+00 CONSTRUCT
DROP INLET ON RT. H= 4'-3"
WITH 8' EXTENSION
18" X 67' R.C. PIPE CULVERT
(CLASS III) (TYPE 2 BEDDING)
TO D.I. STA. 17+92 ON LT.
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET= 4' X 4'

STA. 15+82 CONSTRUCT
DROP INLET ON RT. H= 7'-5"
WITH 8' EXTENSION
18" X 171' PIPE CULVERT
TO D.I. STA. 68+45 ON LT. (HWY. 71B)
TYPE MO DROP INLET = 4' DIA.
TYPE C DROP INLET= 4' X 4'

STA. 17+97 IN PLACE
CURB INLET ON RT.
18" X 15' R.C. PIPE CULVERT
REMOVE
18" X 37' R.C. PIPE CULVERT
PLUG & ABANDON

℄ CONST. HWY. 94
CURVE DATA
P.I. STA. 18+53.46
Δ = 6°31'40.9" RT.
D = 6°00'00.0"
T = 54.46'
L = 108.80'
P.C. STA. 17+99.00
P.T. STA. 19+07.80
N.C.

STA. 19+05 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.3 SQ. YDS.

INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
15+71	16+54	LT.	93
16+60	17+10	RT.	50
17+50	18+40	RT.	88
17+85	18+03	LT.	20
18+72	19+00	LT.	30

STA. 19+56 IN PLACE
DROP INLET ON RT.
18" X 52' R.C. PIPE CULVERT
RETAIN

℄ HWY. 94
STA. 19+35.00
END CONST.

HWY. 94 (N. 8TH STREET)

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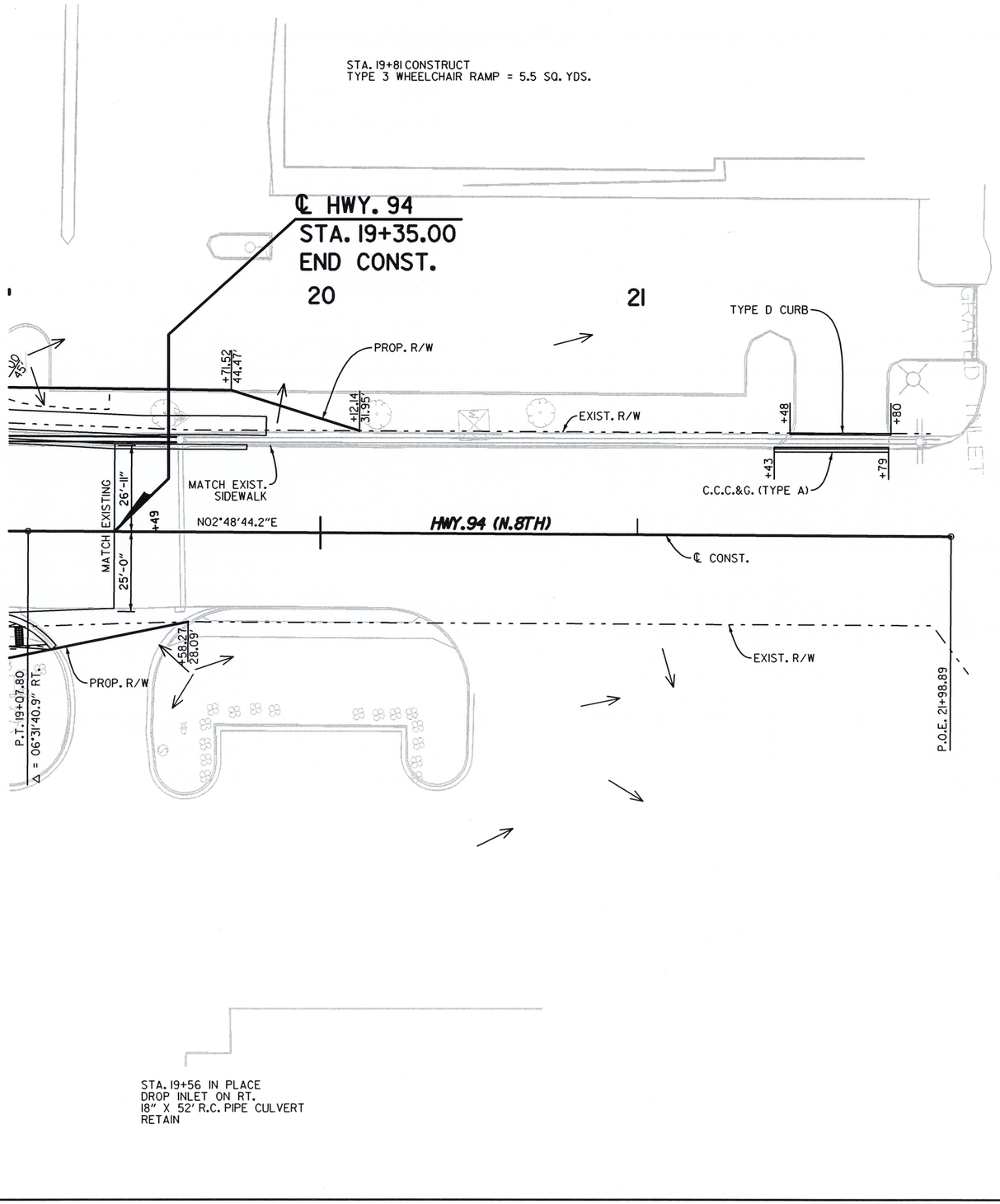
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	105	320
		PLAN HWY. 94 STA. 20+00.00 TO 22+00.00				

STA. 19+49 CONSTRUCT
APPROACH ON LT. = 14.8 CU. YDS.
UNCLASSIFIED EXC.

STA. 19+56 IN PLACE
CURB INLET ON LT. H= 4'-0"
MODIFY TO DROP INLET
H= 3'-6"
TYPE ST DROP INLET = 4'x4'

STA. 19+81 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 5.5 SQ. YDS.



INSTALL TYPE D CURB

STA.	STA.	SIDE	LIN. FT.
21+48	21+80	LT.	32

STA. 19+56 IN PLACE
DROP INLET ON RT.
18" X 52' R.C. PIPE CULVERT
RETAIN

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

HWY. 94 (N. 8TH STREET)

DESIGN FILE: G:\II06100_WalnutSt\TRANSP\dgn\p&p\Plan-15A SH94.dgn MODEL: PLAN AND PROFILE SHEETS
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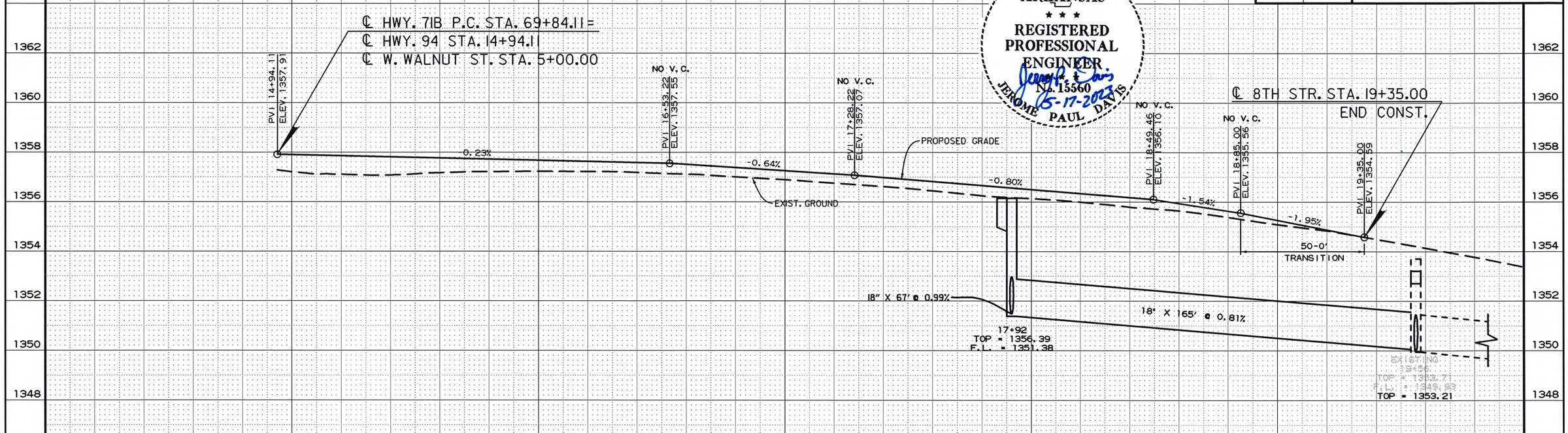
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	106	320
		PLAN & PROFILE HWY. 94 STA. 14+00.00 TO 20+00.00				

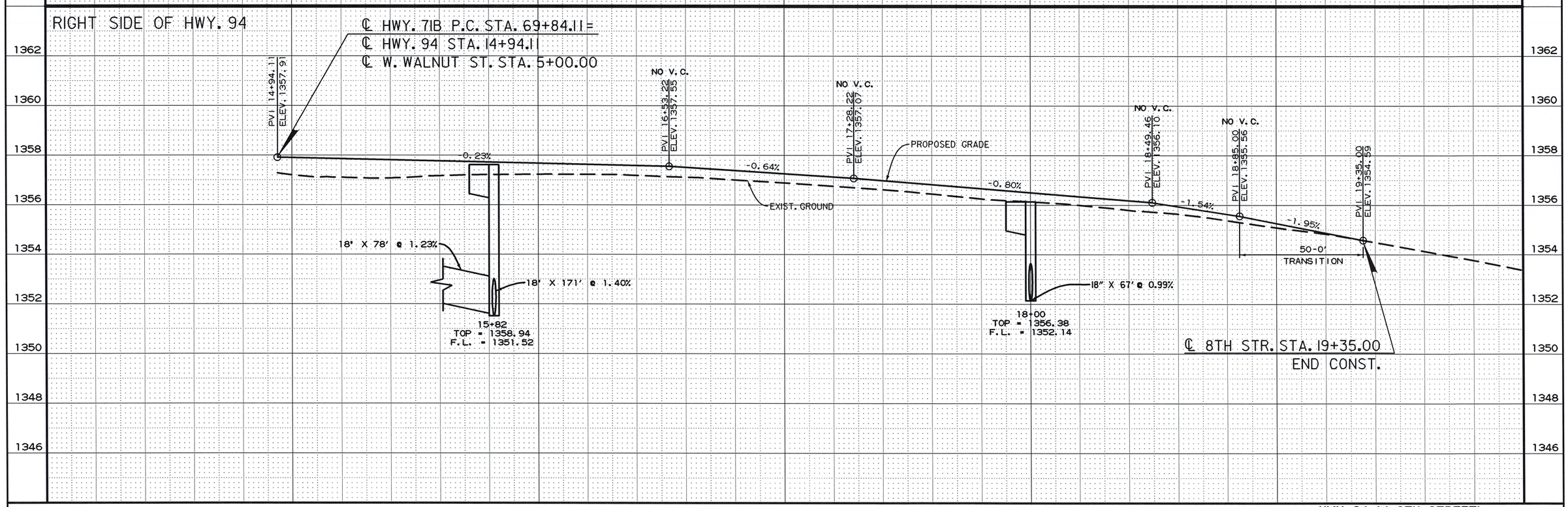
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-17-2023

LEFT SIDE OF HWY. 94

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



RIGHT SIDE OF HWY. 94



14+00 15+00 16+00 17+00 18+00 19+00 20+00

HWY. 94 (N. 8TH STREET)

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USER: JJ5206
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PLOTTED: 5/16/2023 16:53
SCALE: 1:40
MODEL: PLAN AND PROFILE SHEETS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	107	320

PLAN & PROFILE-WALNUT ST. STA. 5+00.00 TO 11+00.00

STA. 5+43 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.7 SQ.YDS

STA. 5+57 CONSTRUCT
TYPE 3 WHEELCHAIR RAMP = 8.4 SQ.YDS

℄ HWY. 71B P.C. STA. 69+84.11 =
℄ HWY. 94 STA. 14+94.11
℄ W. WALNUT ST. STA. 5+00.00

STA. 5+97 CONSTRUCT
DROP INLET ON LT. H= 7'-4"
WITH 8' EXTENSION
AND 18" x 79' PIPE CULVERT
TO D.I. STA. 15+82 ON LT. (HWY. 94)
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 7+50 CONSTRUCT
DROP INLET ON LT. H= 5'-2"
WITH 8' EXTENSION
AND 18" x 149' PIPE CULVERT
TO D.I. STA. 5+97 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

20 10 0 10 20 40

N

STA. 8+41 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

HWY. 94 (N. 8TH)

61' TAPER

LIMITS OF CONSTRUCTION

EXIST. R/W

1'-6" C & G 3'-0" 6'-0" SIDEWALK

266' TAPER

PROP. R/W

MATCH EXIST. LT. EDGE OF SIDEWALK ALIGNMENT STA. 9+24 TO STA 10+34.42 LT.

MATCH EXIST. SIDEWALK STA. 10+34.42 LT.

7TH STREET

P.C. = 69+84.11 (HWY. 71)
△ = 06°12'36.1"RT.

W. WALNUT STREET

℄ CONST.

S86°42'17.4"E

P.O.E. 10+49.55

MATCH EXISTING

MATCH EXIST. RT. EDGE OF SIDEWALK ALIGNMENT STA. 7+77 TO STA 8+25 RT.

100' TRANSITION

P.I. 70+28.51

P.T. = STA. 69+84.11 (HWY 71B)
△ =97°00'39.2"RT.
HWY. 71B (S. 8TH)

22'-0" 70'R

60' TAPER

STA. 6+33 CONSTRUCT
DROP INLET ON RT. H= 4'-5"
WITH 8' EXTENSION
AND 18" x 74' PIPE CULVERT
TO J.B. STA. 70+70 ON LT. (HWY. 71B)
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 6+78 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

STA. 7+50 CONSTRUCT
DROP INLET ON RT. H= 3'-8"
WITH 8' EXTENSION
AND 18" x 114' PIPE CULVERT
TO D.I. STA. 6+38 ON RT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

STA. 8+11 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.

℄ W. WALNUT ST. STA. 10+21.00
END CONST.

W. WALNUT STREET

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

34.01' LT. OF ℄ HWY. 71B STA. 69+88.12 =
℄ W.WALNUT STREET STA. 5+34.26, ELEV. 1358.58'

PVI 5+00.00 ELEV. 1357.91

5+97 LT
TOP = 1359.89
F.L. = 1352.58

1.96%

PVC 5+65.00 Elev 1359.19

PVI 6+40.00 ELEV. 1360.66

150' V.C.
K = 245
SSD = 1839'
e = -0.12'

PVT 7+15.00 Elev 1361.67

PVC 7+75.00 Elev 1362.49

7+50 LT
TOP = 1361.83
F.L. = 1356.67

1.35%

EXIST. GROUND

PROPOSED GRADE

PVI 8+50.00 ELEV. 1363.50

150' V.C.
K = 108
SSD = 851'
e = -0.26'

PVT 9+25.00 Elev 1363.47

-0.04%

PVI 9+71.00 ELEV. 1363.45

-0.60%

50-0' TRANSITION

PVI 10+21.00 ELEV. 1363.15

18" X 79' @ 1.22%

18" X 149' @ 2.66% LT

18" X 74' @ 4.85%

18" X 114' @ 1.91% RT

6+33 RT
TOP = 1360.54
F.L. = 1356.13

7+50 RT
TOP = 1362.07
F.L. = 1358.41

1366 1364 1362 1360 1358 1356 1354 1352 1350

5+00 6+00 7+00 8+00 9+00 10+00 11+00

STATE OF ARKANSAS
★ ★ ★
REGISTERED PROFESSIONAL ENGINEER
★ ★ ★
No. 15560
JEROME PAUL DAVIS
5-17-2023

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\p&p\Plan-16 Walnut St.dgn
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SCALE: 1:40

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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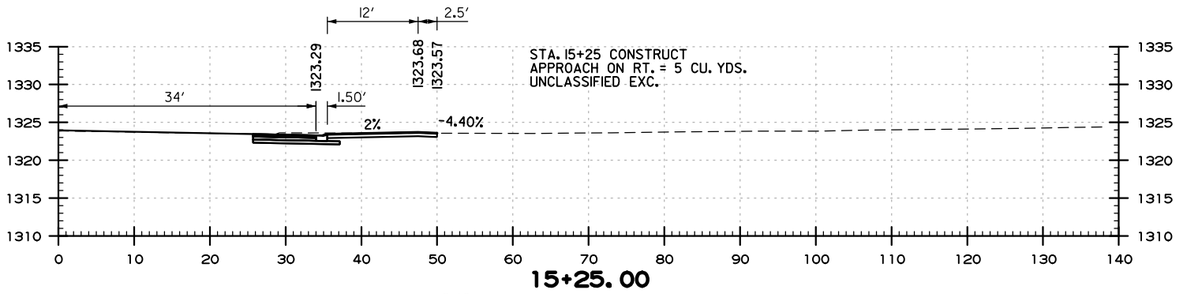
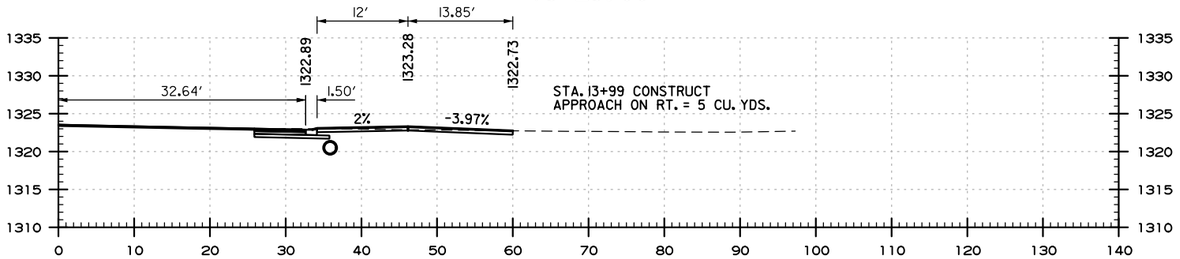
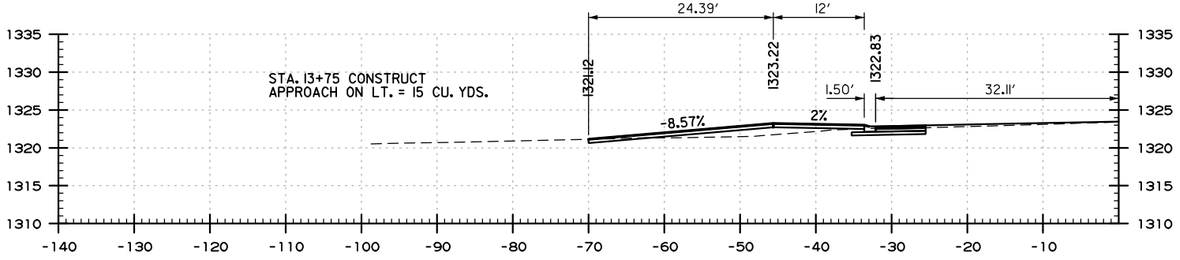
		HWY. 71B - DRIVEWAY PROFILES				



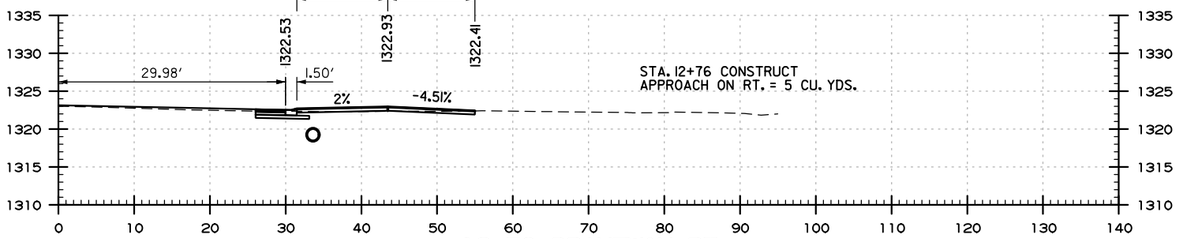
15+25.00



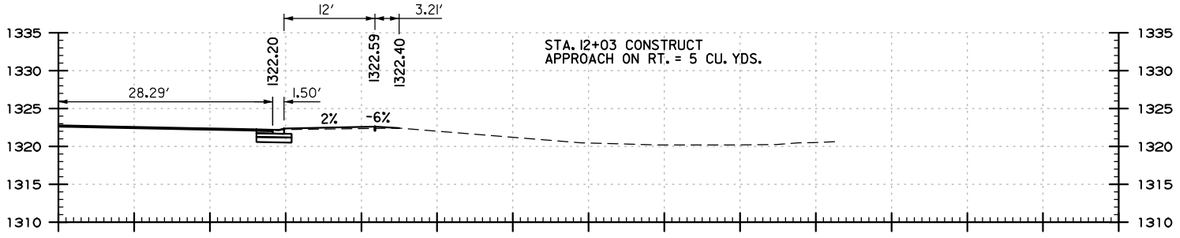
13+99 DRIVEWAY RT



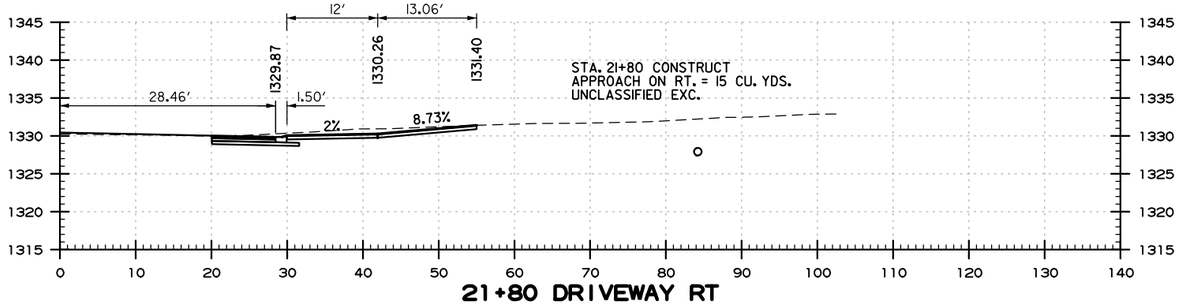
13+75 DRIVEWAY LT



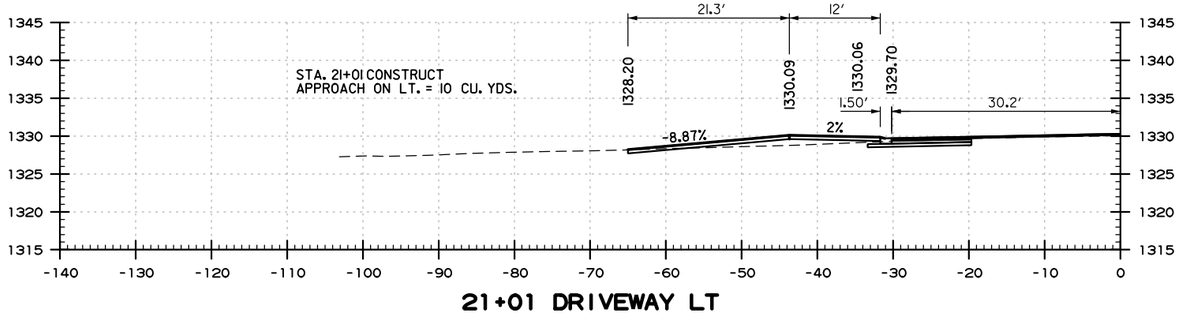
12+79 DRIVEWAY RT



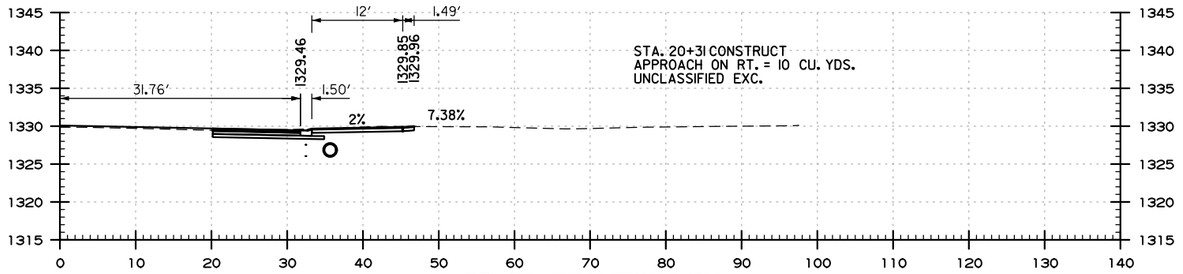
12+03.00



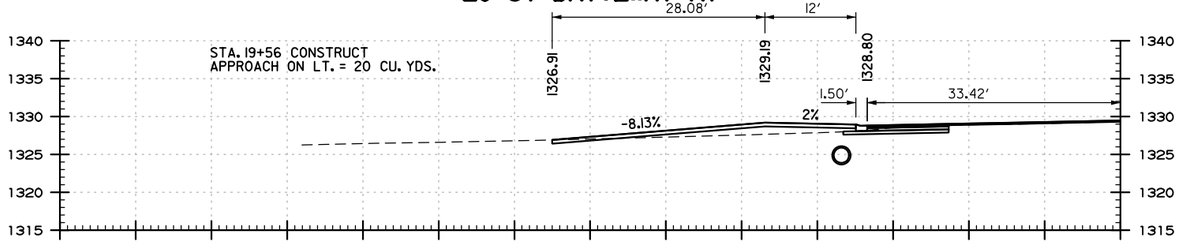
21+80 DRIVEWAY RT



21+01 DRIVEWAY LT



20+31 DRIVEWAY RT



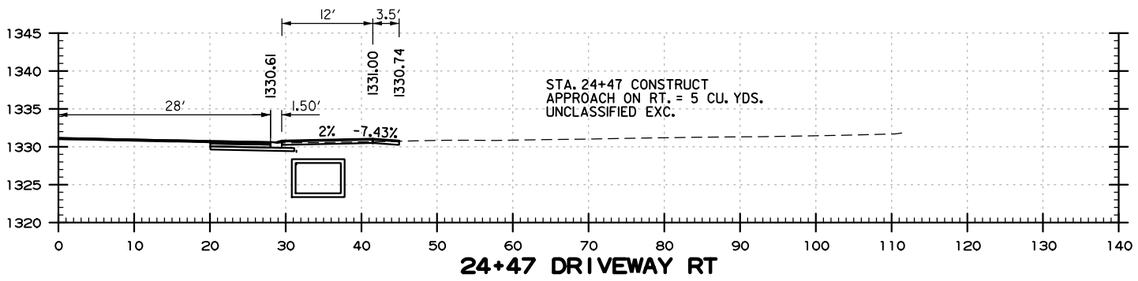
19+56 DRIVEWAY LT

DRIVEWAY PROFILES
STA. 12+03.00 TO STA. 21+80.00

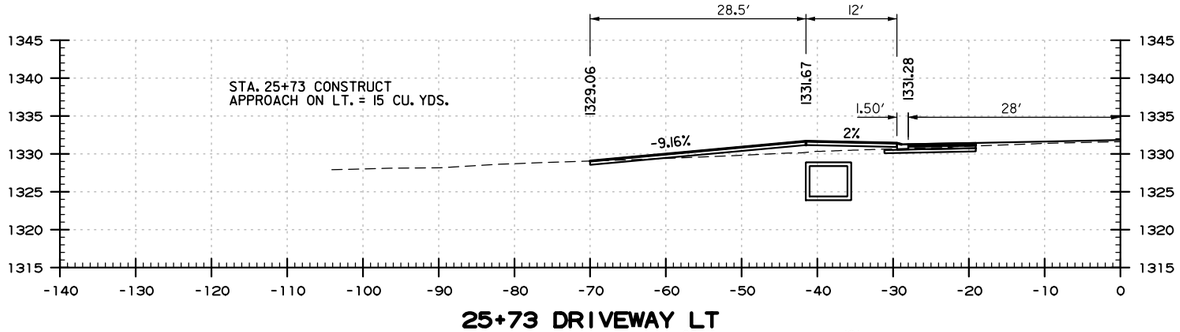
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 16:53
MODEL: Driveway Profiles
SCALE: h20

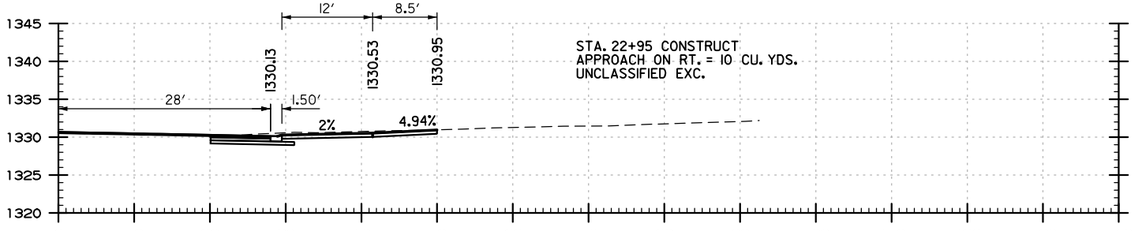
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	109	320
		HWY. 71B - DRIVEWAY PROFILES				



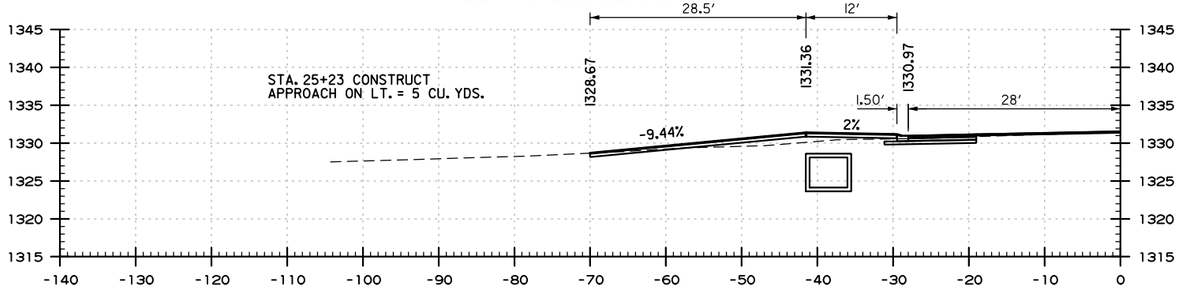
24+47 DRIVEWAY RT



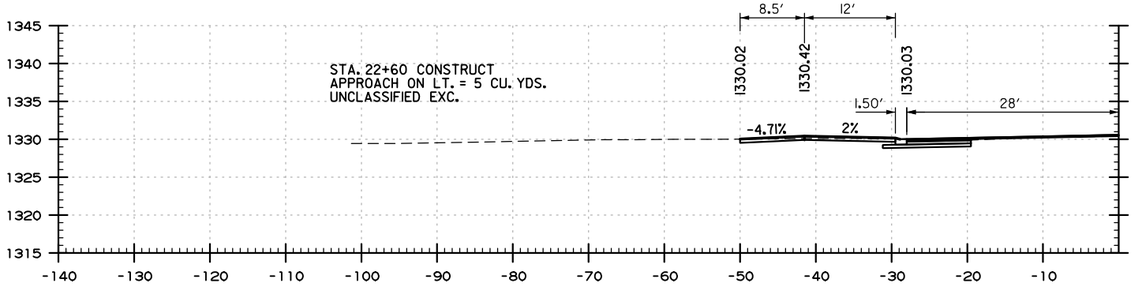
25+73 DRIVEWAY LT



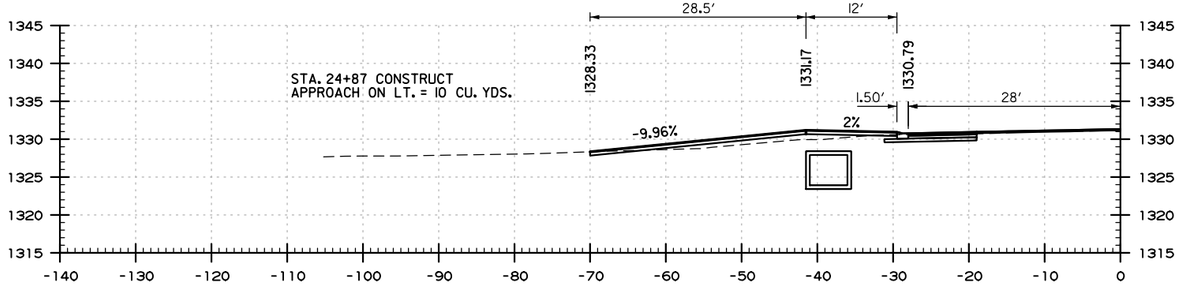
22+95 DRIVEWAY RT



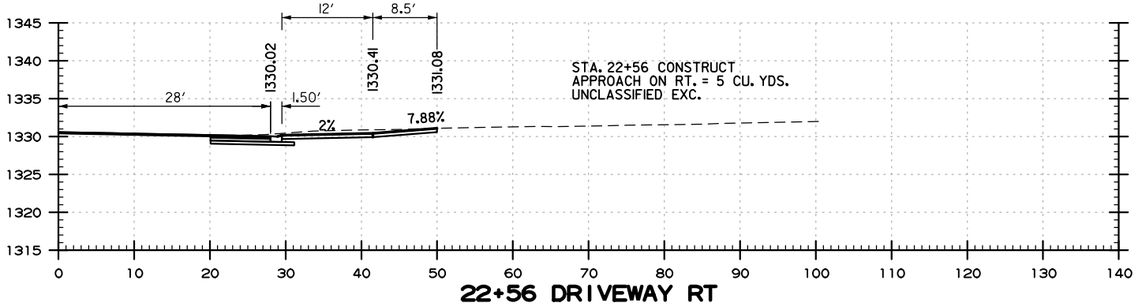
25+23 DRIVEWAY LT



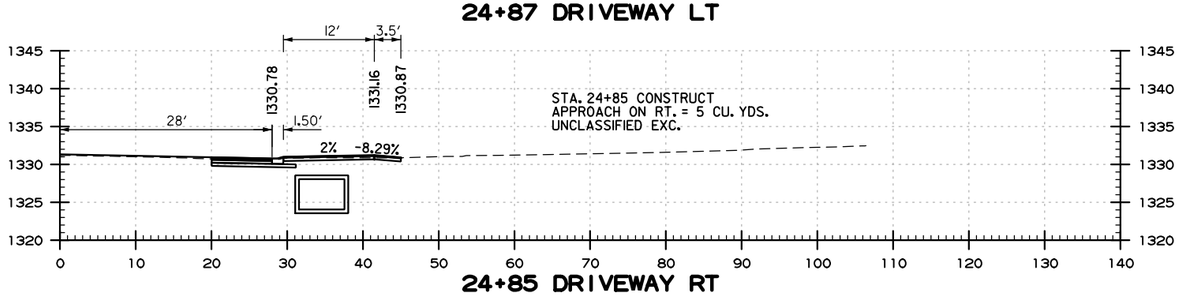
22+60 DRIVEWAY LT



24+87 DRIVEWAY LT



22+56 DRIVEWAY RT



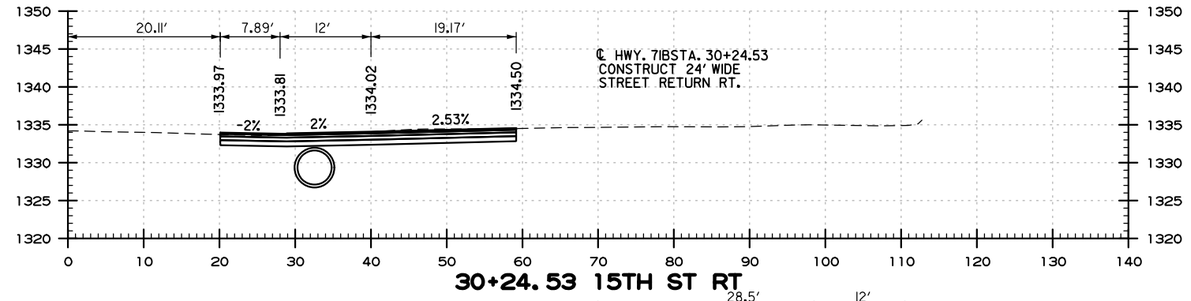
24+85 DRIVEWAY RT

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: Driveway Profiles
PLOTTED: 5/16/2023 16:53 SCALE: 1:20

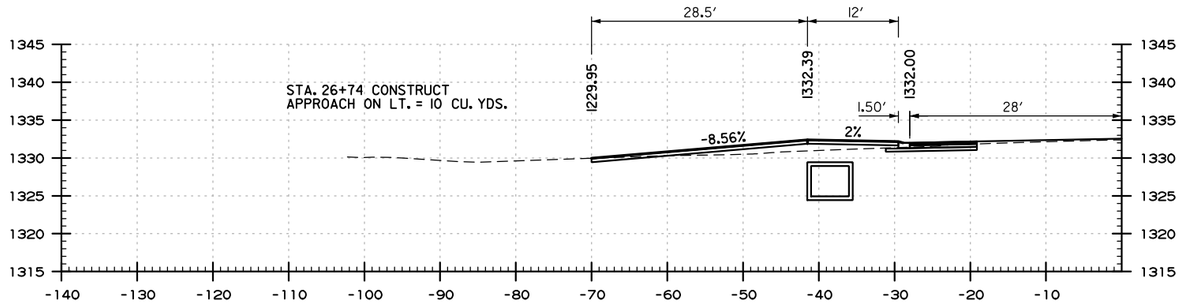
DRIVEWAY PROFILES
STA. 22+56.00 TO STA. 25+73.00

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

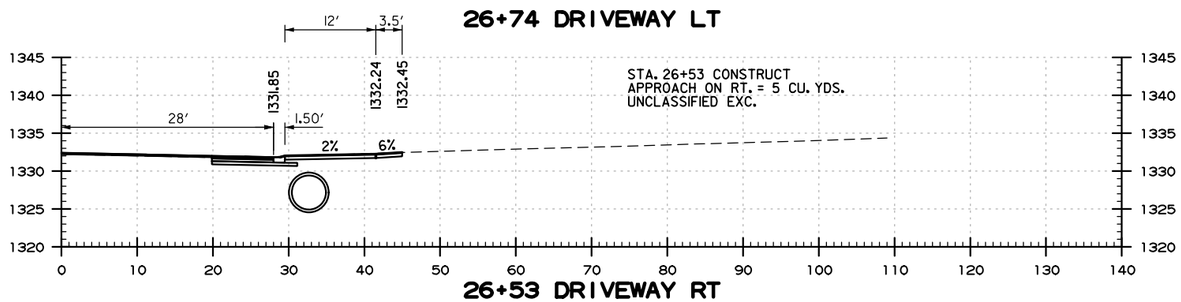
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	110	320
		HWY. 71B - DRIVEWAY PROFILES				



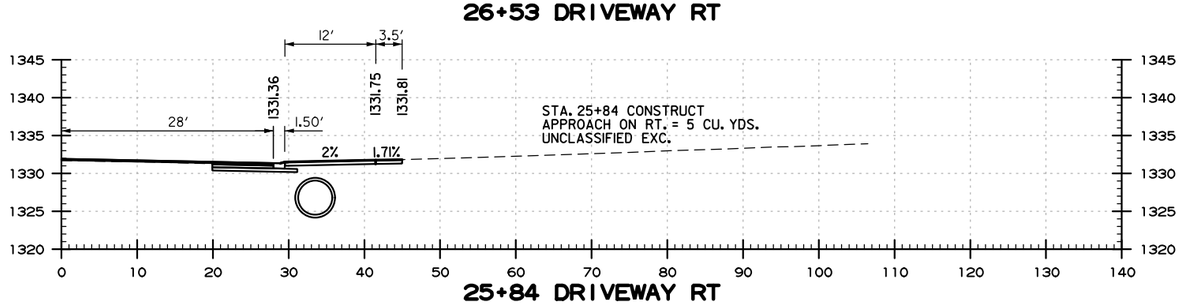
30+24.53 15TH ST RT



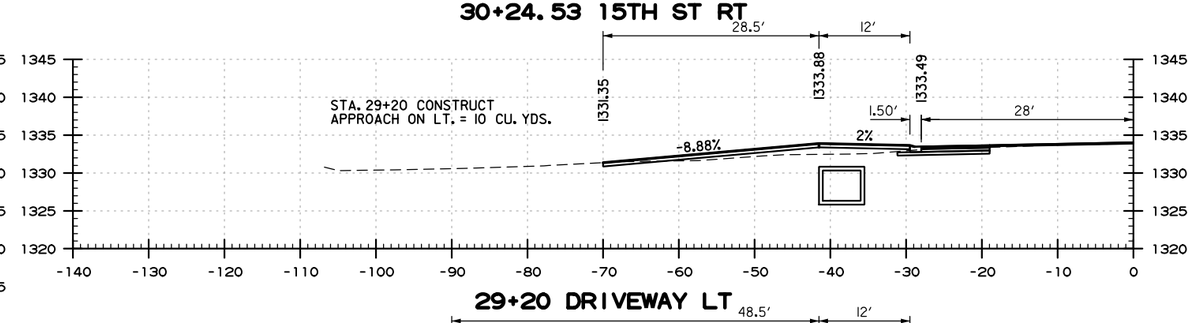
26+74 DRIVEWAY LT



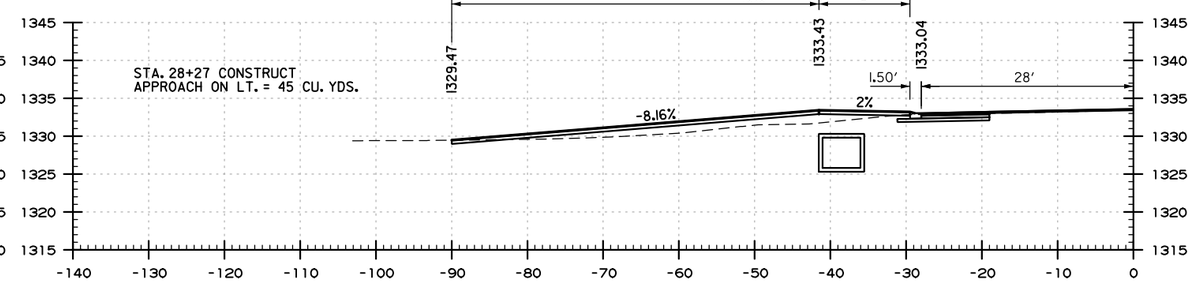
26+53 DRIVEWAY RT



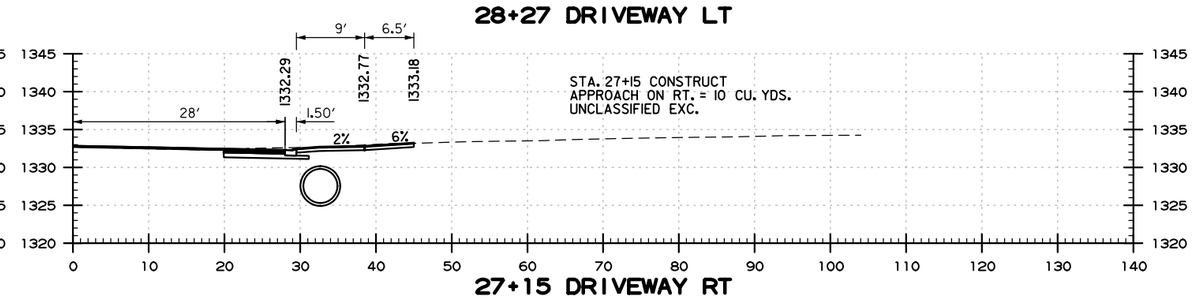
25+84 DRIVEWAY RT



29+20 DRIVEWAY LT



28+27 DRIVEWAY LT



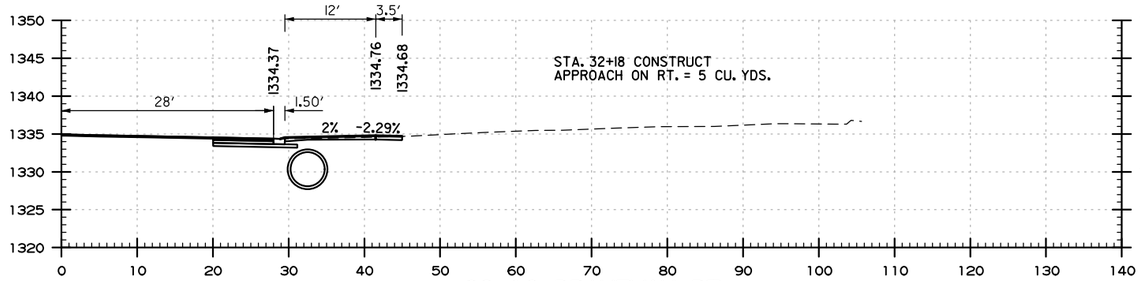
27+15 DRIVEWAY RT

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 16:53
MODEL: Driveway Profiles
SCALE: h20

DRIVEWAY PROFILES
STA. 25+84.00 TO STA. 30+24.53

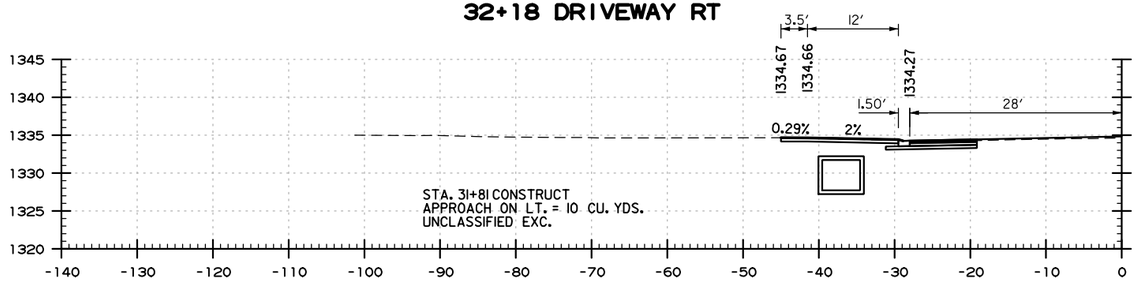
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	III	320
		HWY. 71B - DRIVEWAY PROFILES				



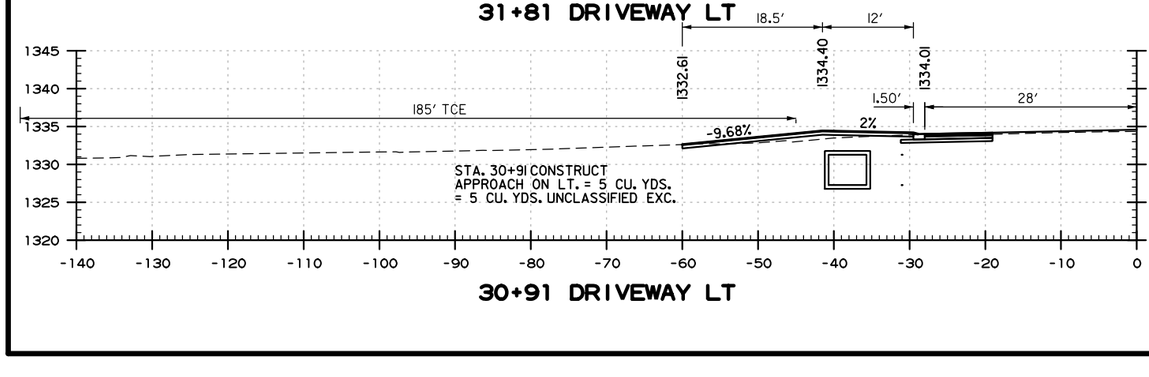
STA. 32+18 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.

32+18 DRIVEWAY RT



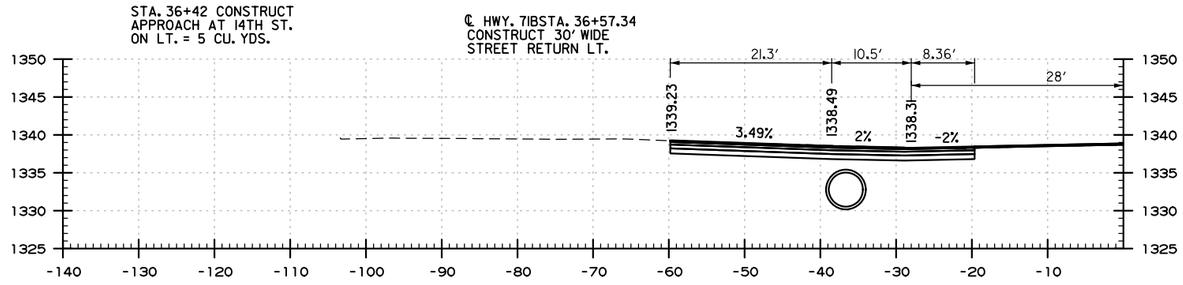
STA. 31+81 CONSTRUCT
APPROACH ON LT. = 10 CU. YDS.
UNCLASSIFIED EXC.

31+81 DRIVEWAY LT



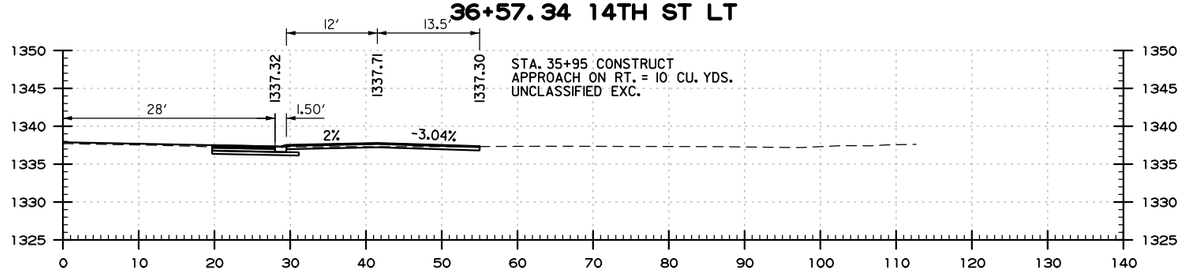
STA. 30+91 CONSTRUCT
APPROACH ON LT. = 5 CU. YDS.
= 5 CU. YDS. UNCLASSIFIED EXC.

30+91 DRIVEWAY LT



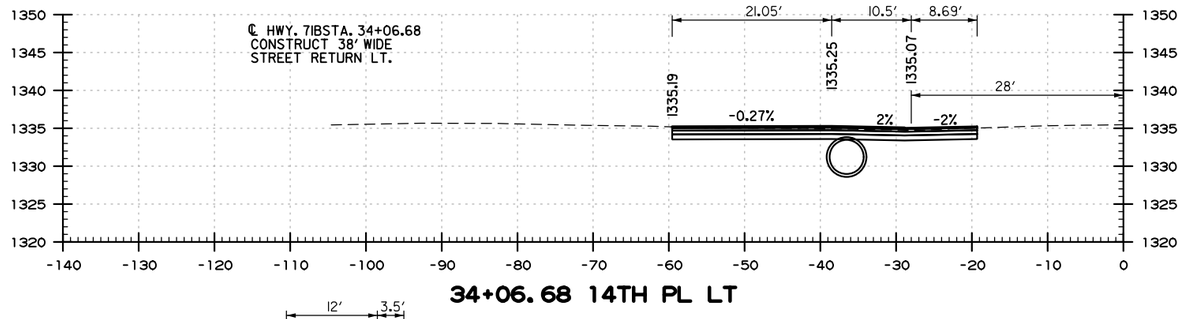
STA. 36+42 CONSTRUCT
APPROACH AT 14TH ST.
ON LT. = 5 CU. YDS.

36+57.34 14TH ST LT

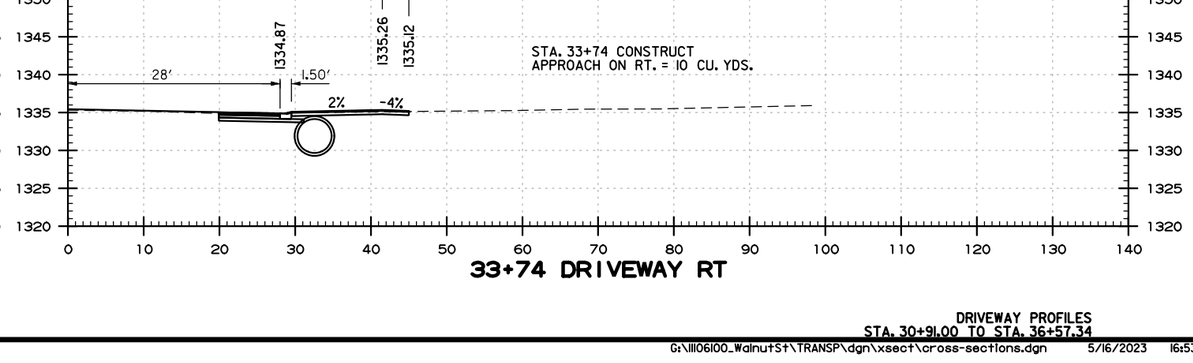


STA. 35+95 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.
UNCLASSIFIED EXC.

35+95 DRIVEWAY RT



34+06.68 14TH PL LT



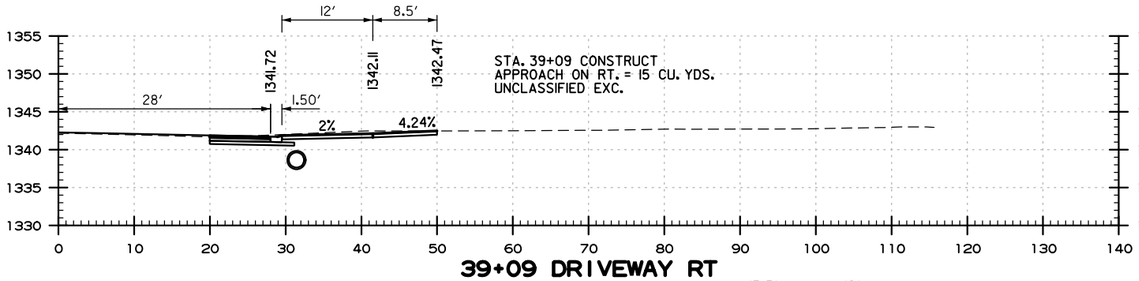
STA. 33+74 CONSTRUCT
APPROACH ON RT. = 10 CU. YDS.

33+74 DRIVEWAY RT

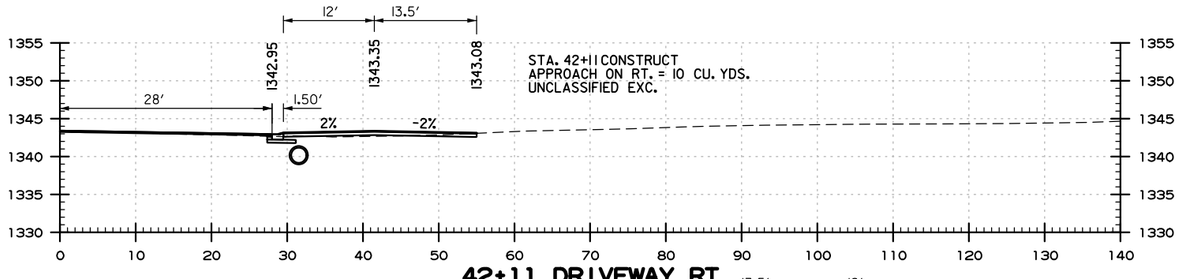
USER: JJ5206
DESIGN FILE: G:\III06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: Driveway Profiles
PLOTTED: 5/16/2023 16:53 SCALE: 1:20

DRIVEWAY PROFILES
STA. 30+91.00 TO STA. 36+57.34

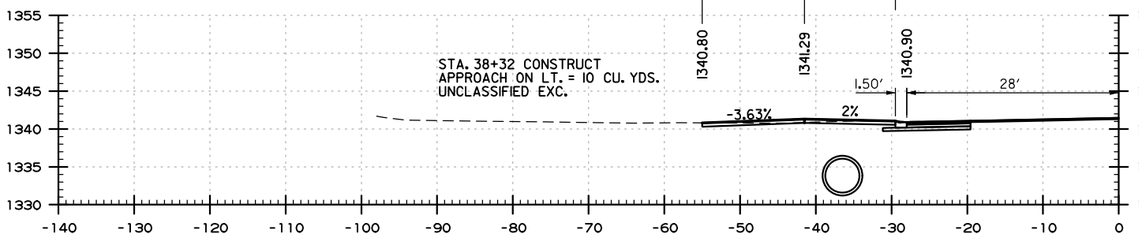
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	112	320
		HWY. 71B - DRIVEWAY PROFILES				



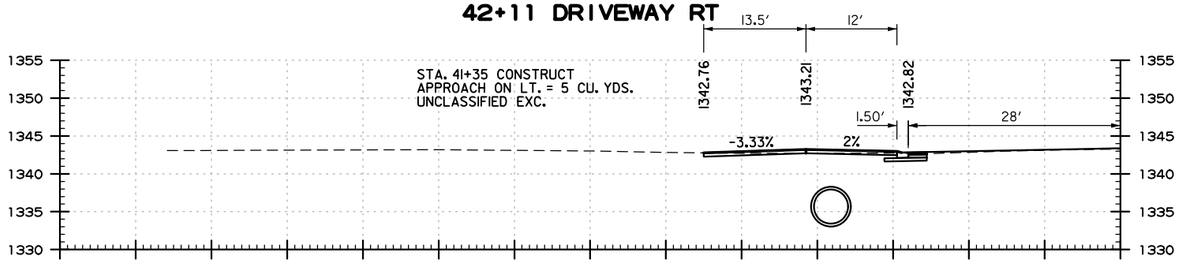
39+09 DRIVEWAY RT



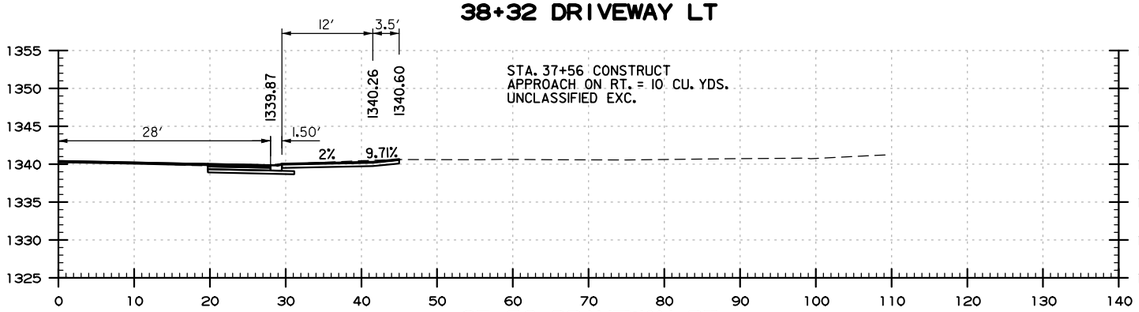
42+11 DRIVEWAY RT



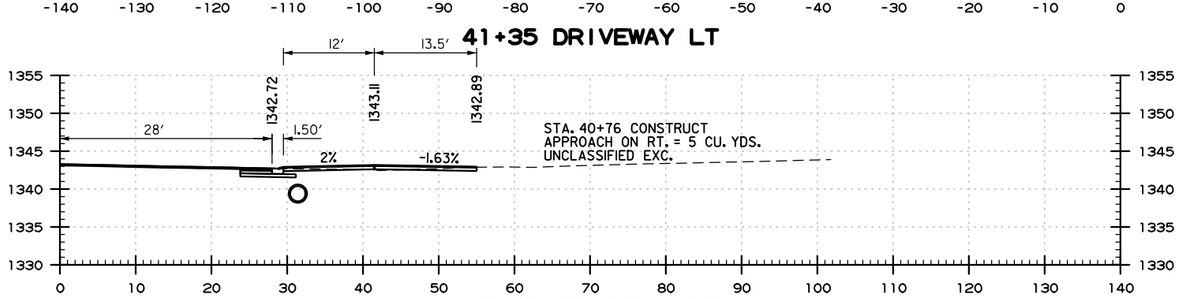
38+32 DRIVEWAY LT



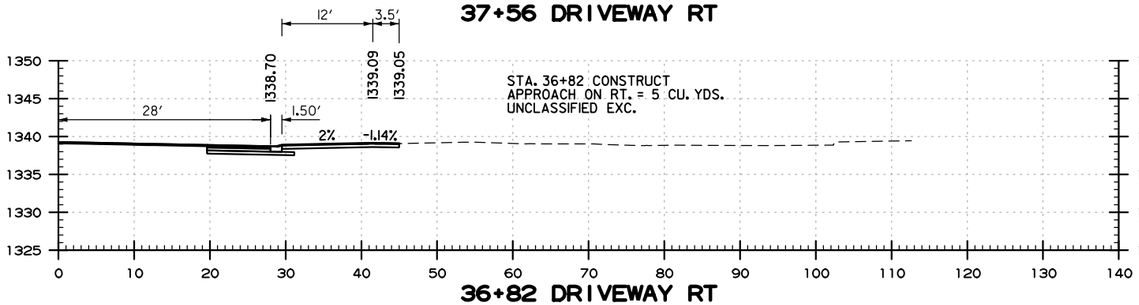
41+35 DRIVEWAY LT



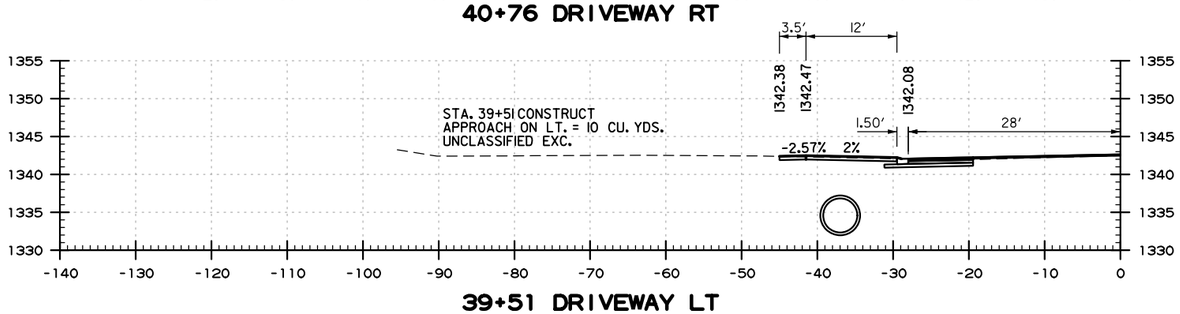
37+56 DRIVEWAY RT



40+76 DRIVEWAY RT



36+82 DRIVEWAY RT



39+51 DRIVEWAY LT

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 16:53
MODEL: Driveway Profiles
SCALE: 1:20

DRIVEWAY PROFILES
STA. 36+82.00 TO STA. 42+11.00

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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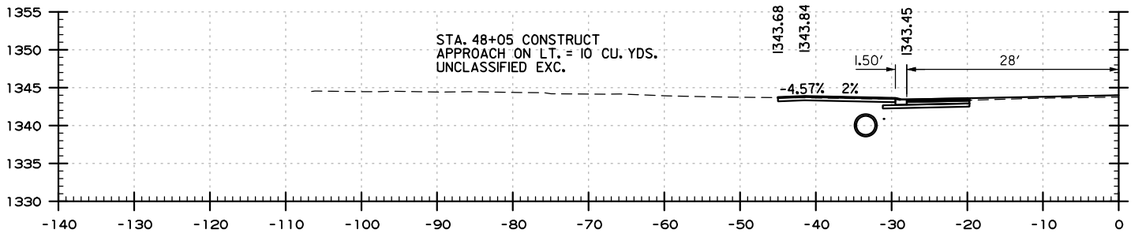
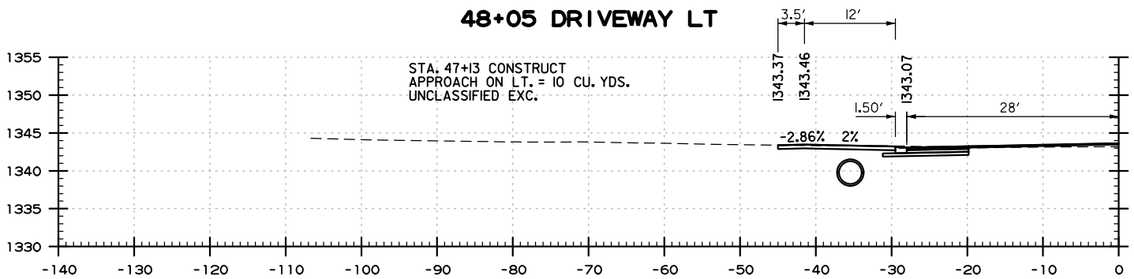
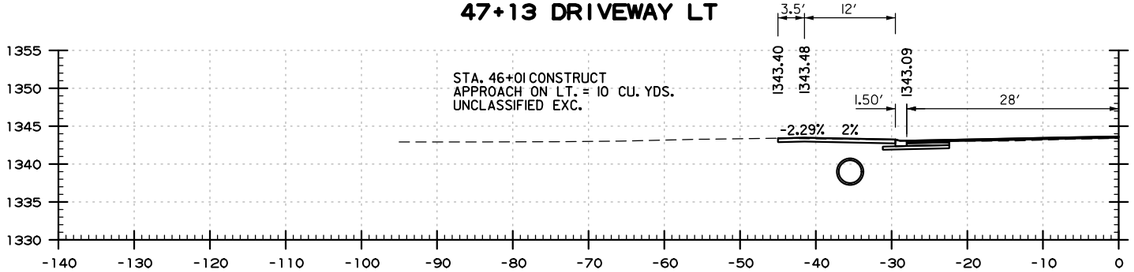
		HWY. 71B - DRIVEWAY PROFILES				



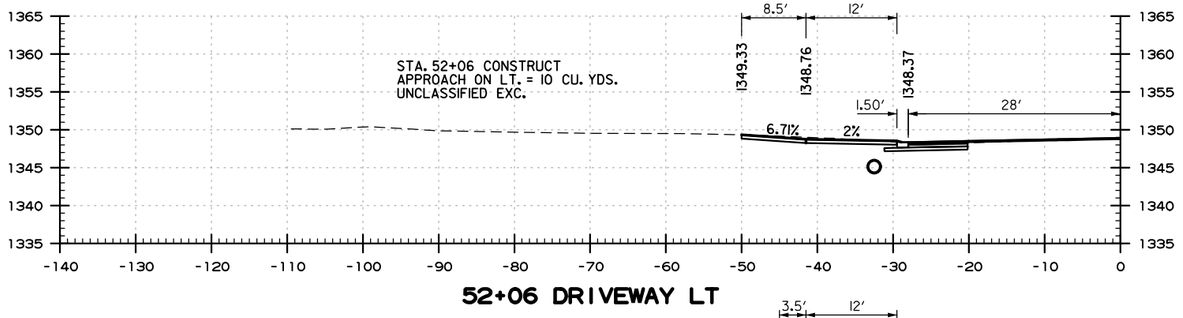
48+05 DRIVEWAY LT



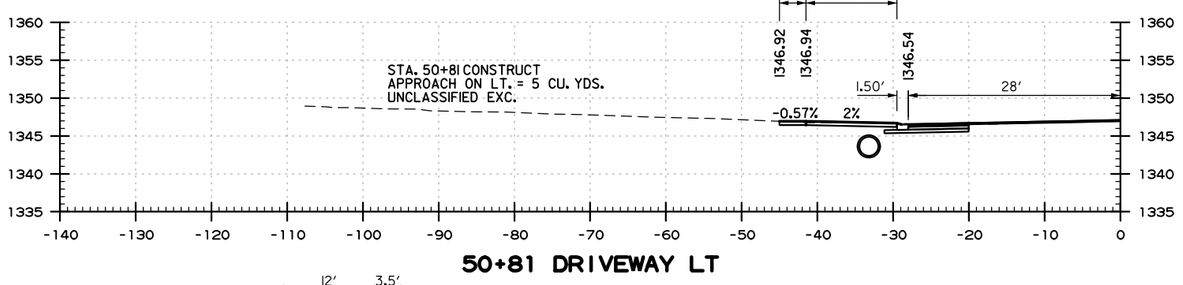
47+13 DRIVEWAY LT



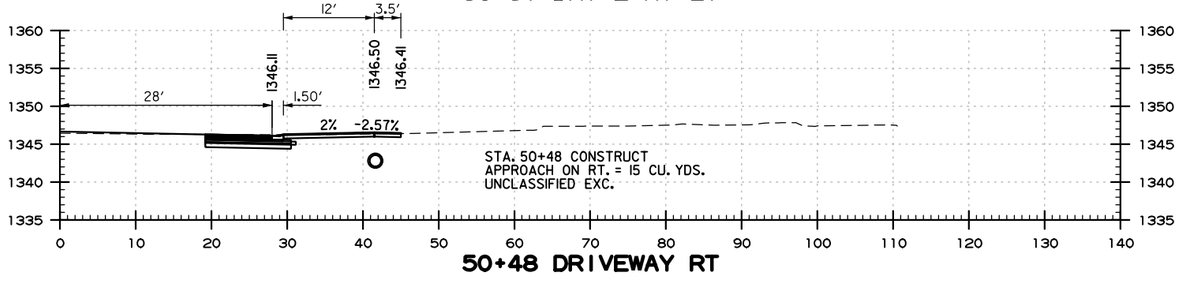
46+01 DRIVEWAY LT



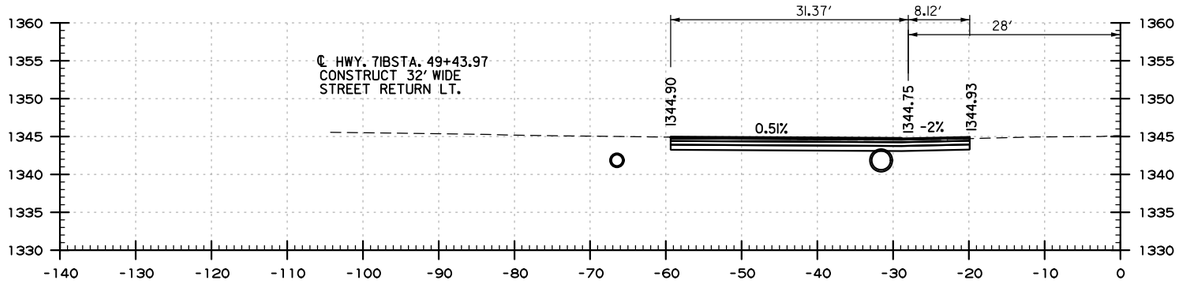
52+06 DRIVEWAY LT



50+81 DRIVEWAY LT



50+48 DRIVEWAY RT



49+43.97 12TH PL LT

DRIVEWAY PROFILES
STA. 46+01.00 TO STA. 52+06.00

G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

USER: JJ5206
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 16:53
MODEL: Driveway Profiles
SCALE: 1:20

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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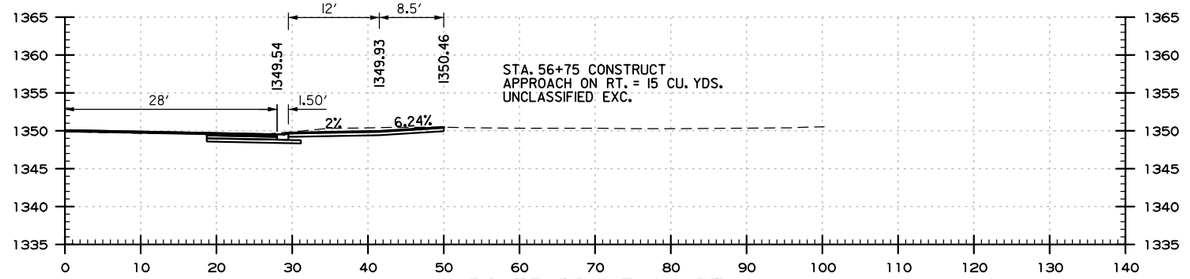
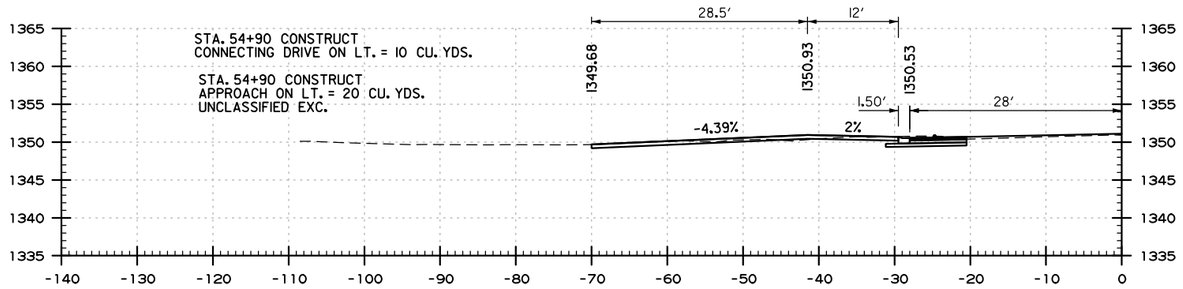
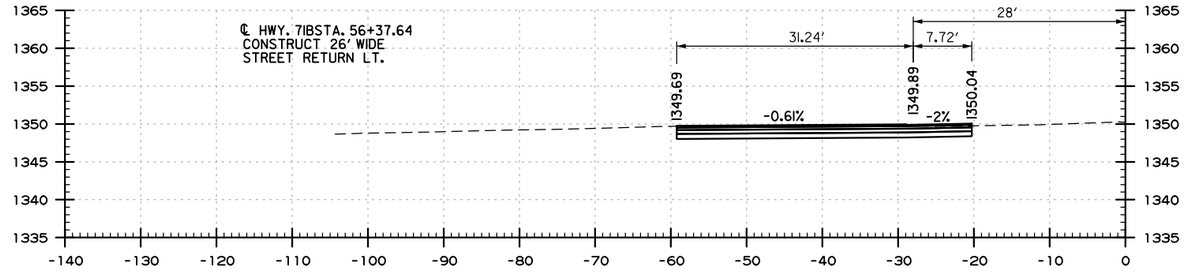
		HWY. 71B - DRIVEWAY PROFILES				



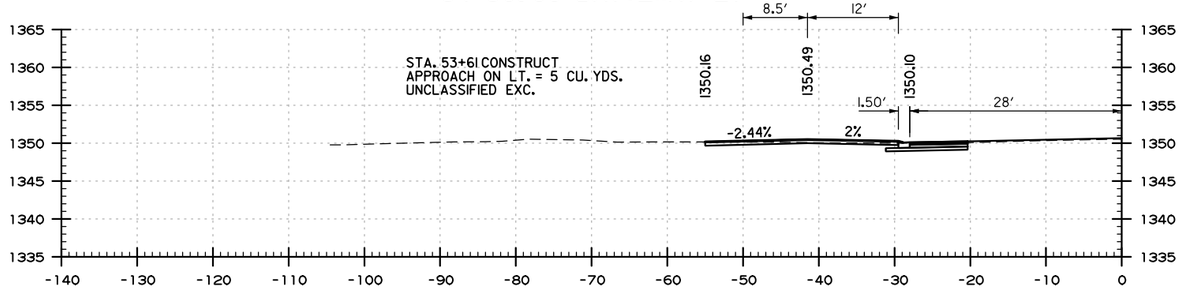
56+75 DRIVEWAY RT



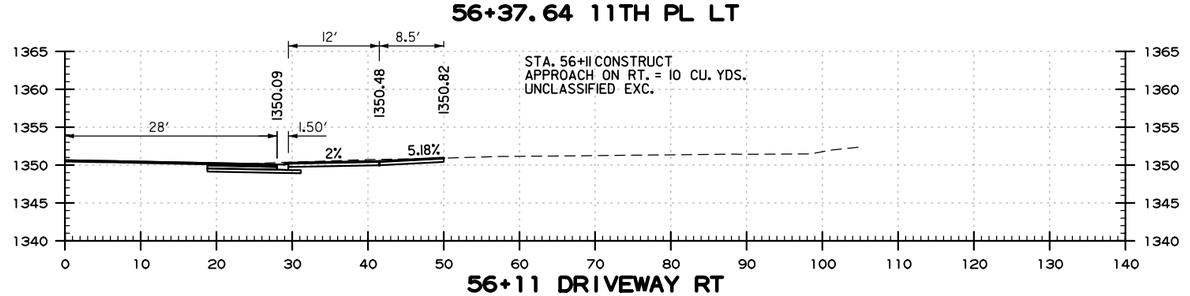
54+90.00 DRIVEWAY LT



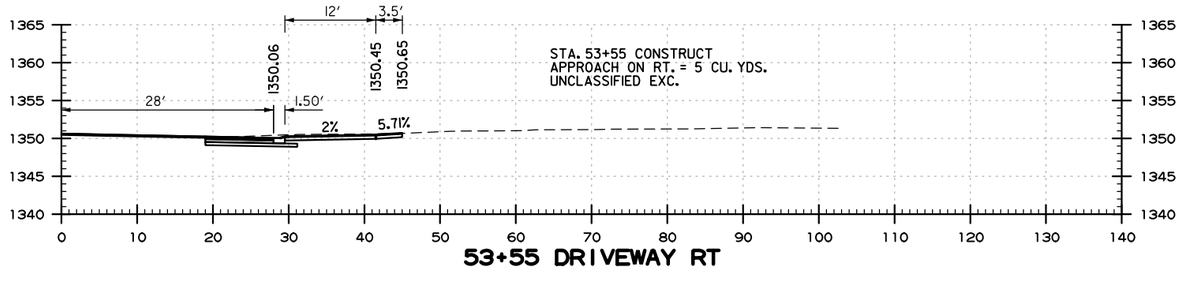
56+37.64 11TH PL LT



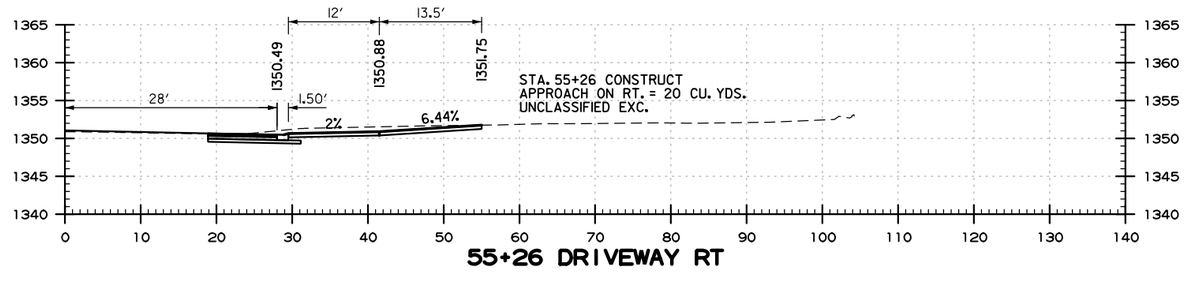
53+61 DRIVEWAY LT



56+11 DRIVEWAY RT



53+55 DRIVEWAY RT



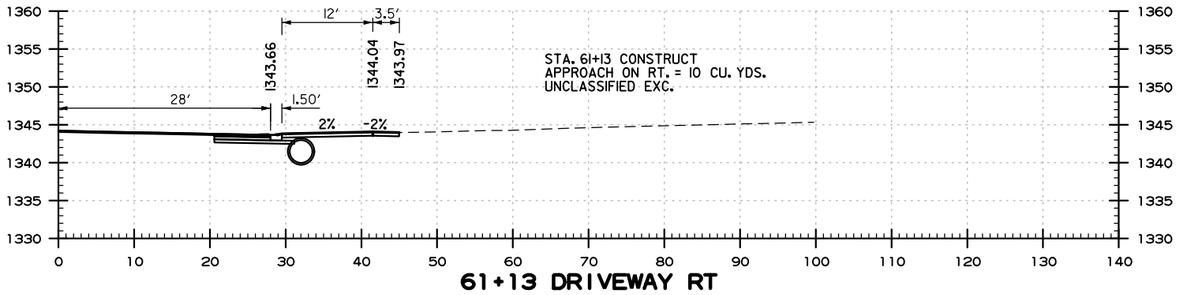
55+26 DRIVEWAY RT

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: Driveway Profiles
PLOTTED: 5/16/2023 16:53 SCALE: h:20

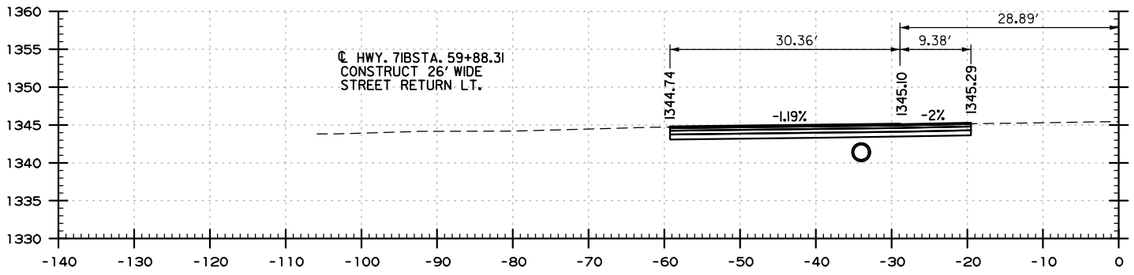
DRIVEWAY PROFILES
STA. 53+55.00 TO STA. 56+75.00

G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

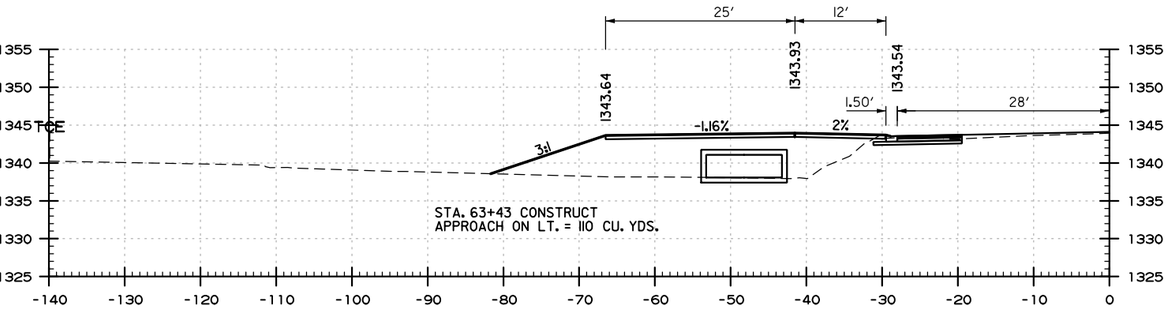
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	115	320
		HWY. 71B - DRIVEWAY PROFILES				



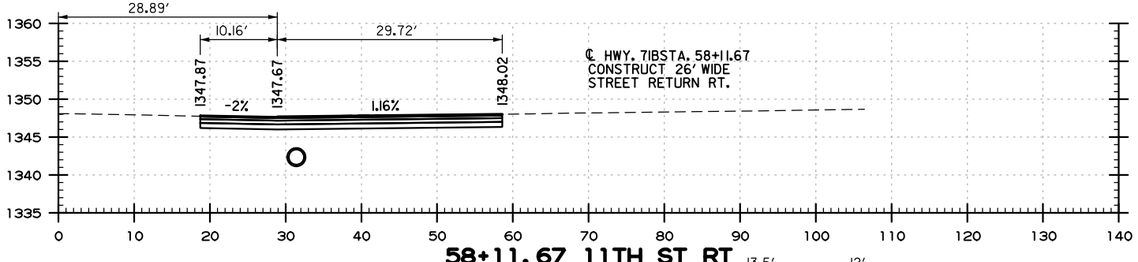
61+13 DRIVEWAY RT



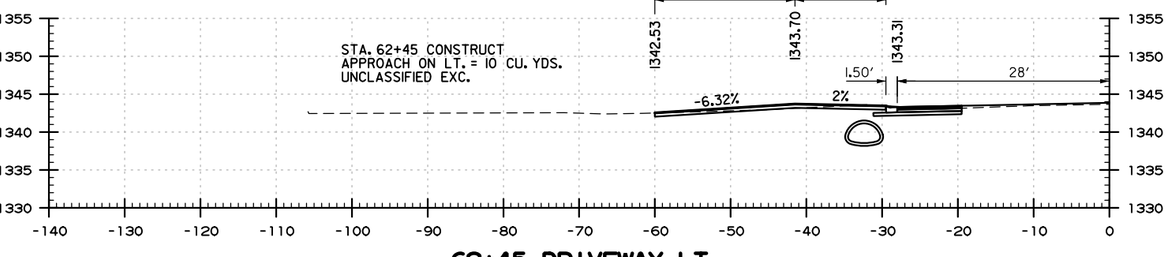
59+88.31 10TH ST LT



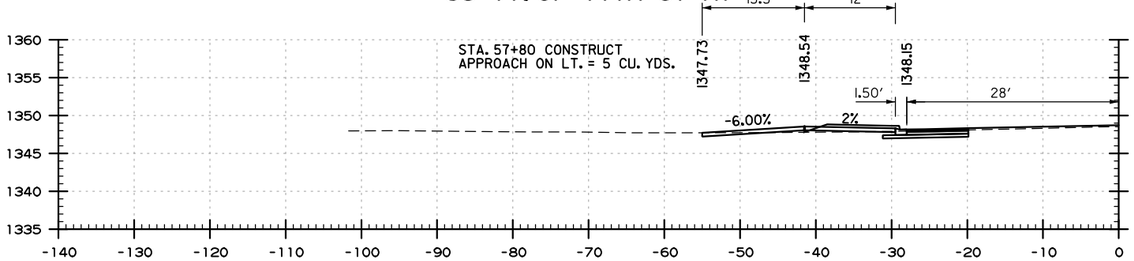
63+45 DRIVEWAY LT



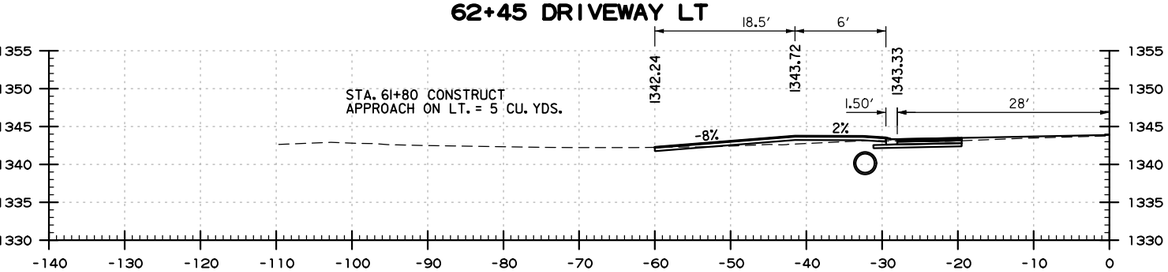
58+11.67 11TH ST RT



62+45 DRIVEWAY LT



57+80 DRIVEWAY LT

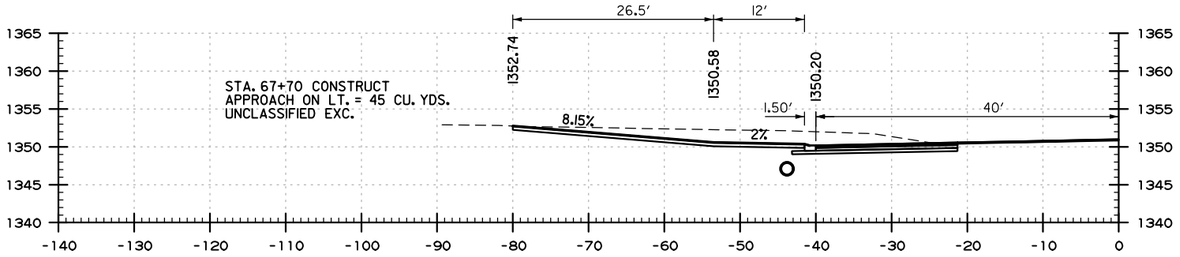


61+82 DRIVEWAY LT

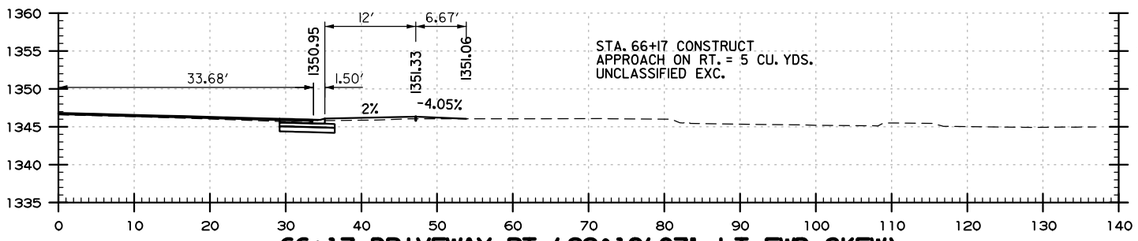
DRIVEWAY PROFILES
STA. 57+80.00 TO STA. 64+55.00

USER: JJ5206
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: Driveway Profiles
PLOTTED: 5/16/2023 16:53 SCALE: 1:20

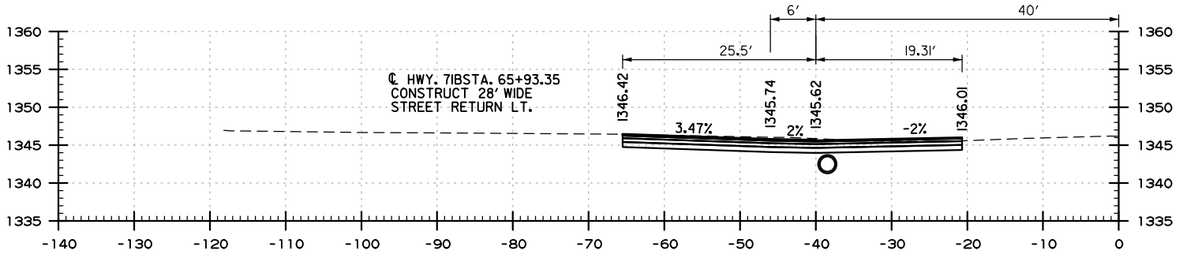
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	116	320
		HWY. 71B - DRIVEWAY PROFILES				



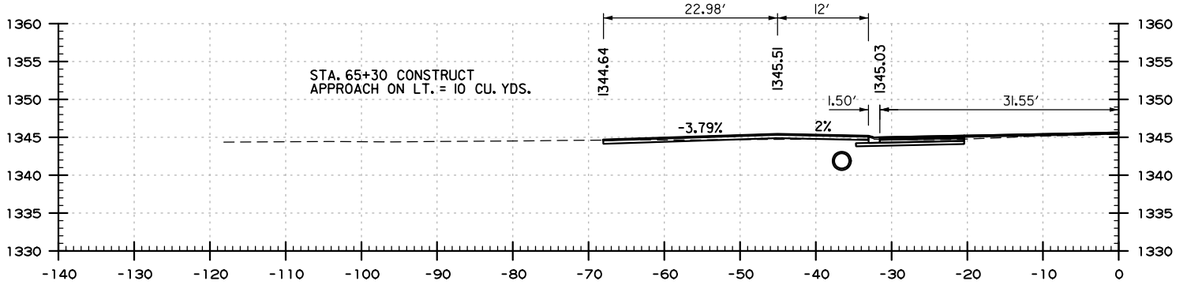
67+70 DRIVEWAY LT



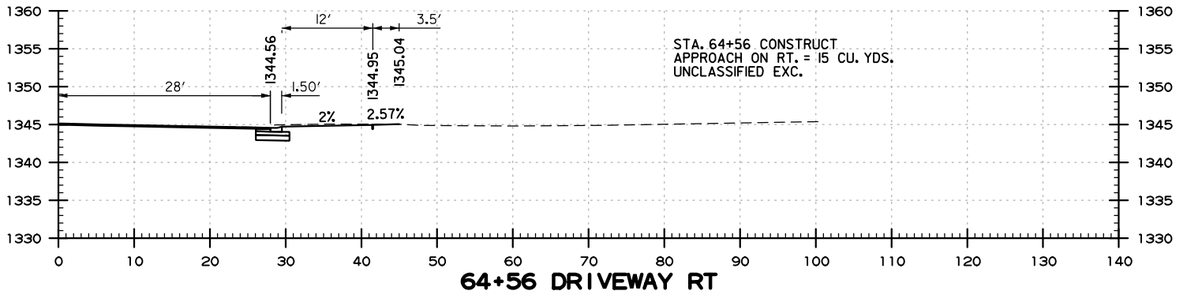
66+17 DRIVEWAY RT (33°19'07" LT FWD SKEW)



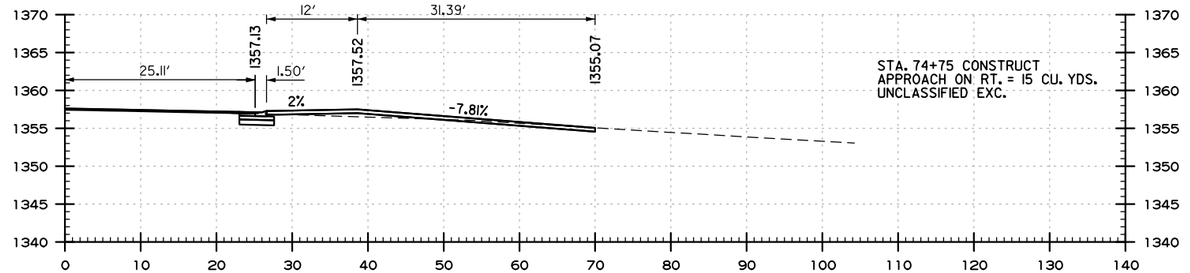
65+93.35 9TH ST LT



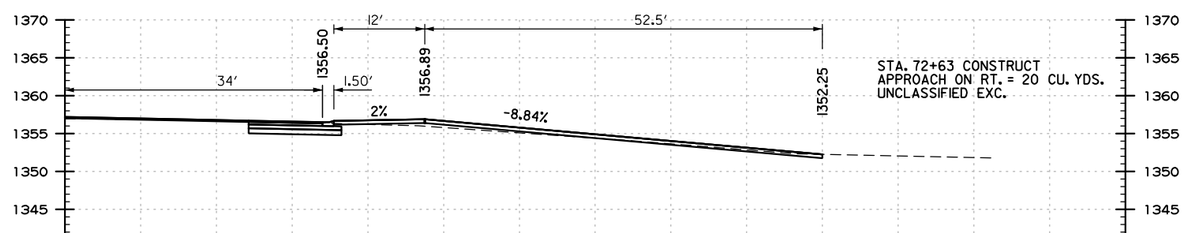
65+30 DRIVEWAY LT



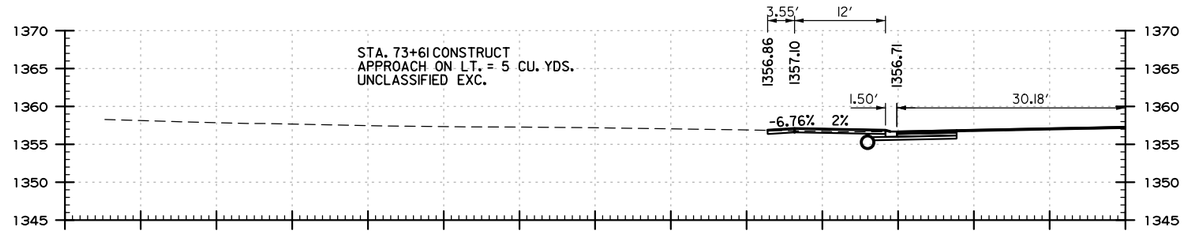
64+56 DRIVEWAY RT



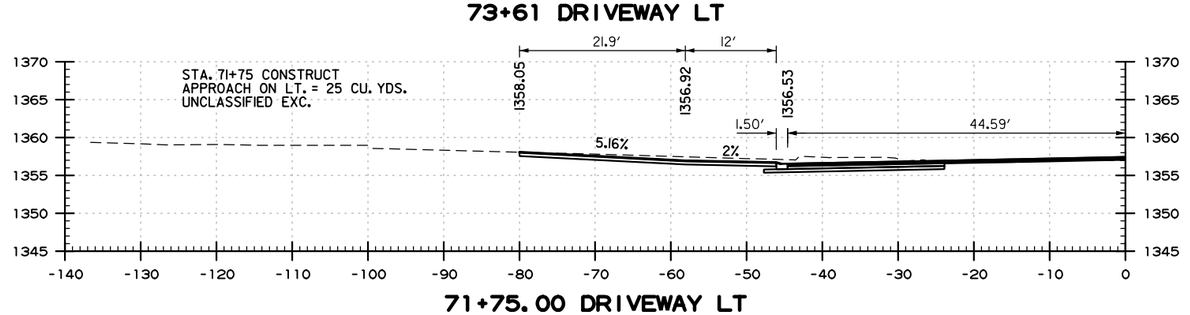
74+75 DRIVEWAY RT



72+63 DRIVEWAY RT



73+61 DRIVEWAY LT



71+75.00 DRIVEWAY LT

DRIVEWAY PROFILES
STA. 64+56.00 TO STA. 74+75.00

G:\III06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

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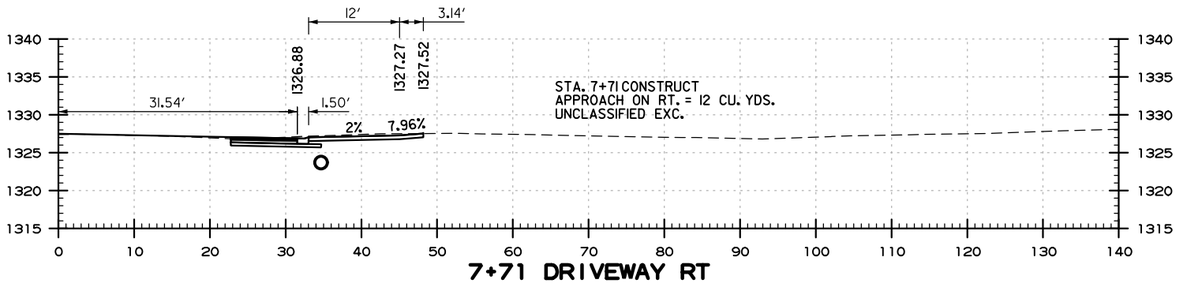
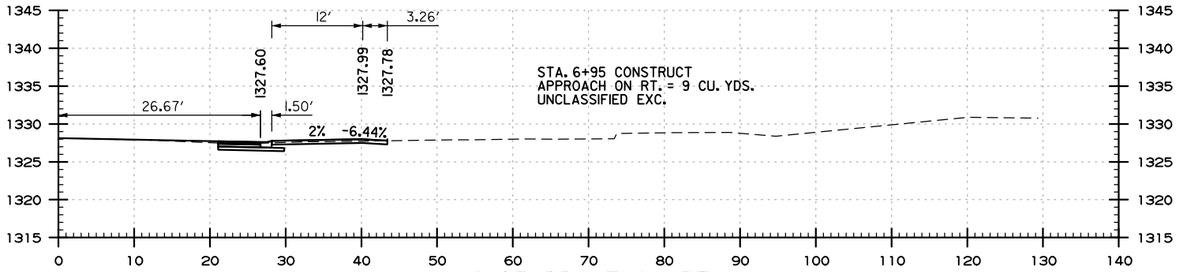
PLOTTED: 5/16/2023 16:53
SCALE: H:20
MODEL: Driveway Profiles

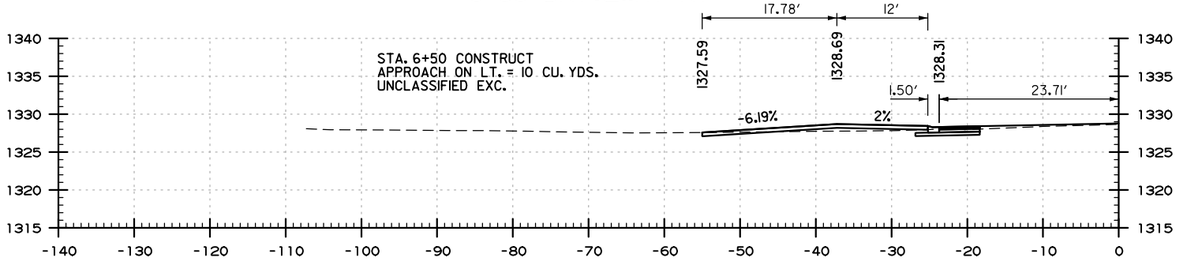
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	117	320
		DIXIELAND RD. - DRIVEWAY PROFILES				



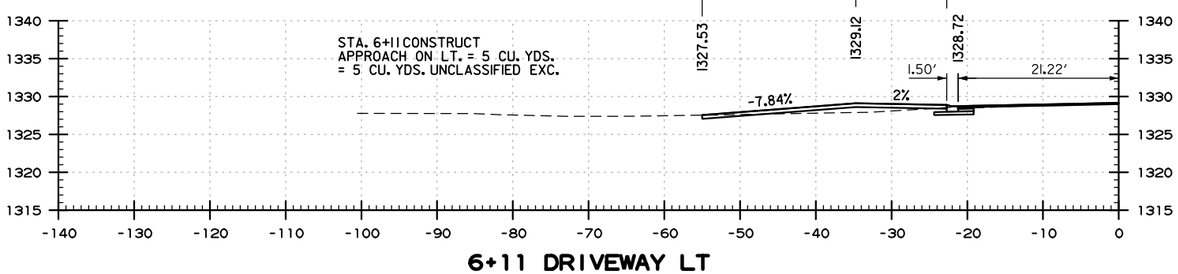
7+71 DRIVEWAY RT



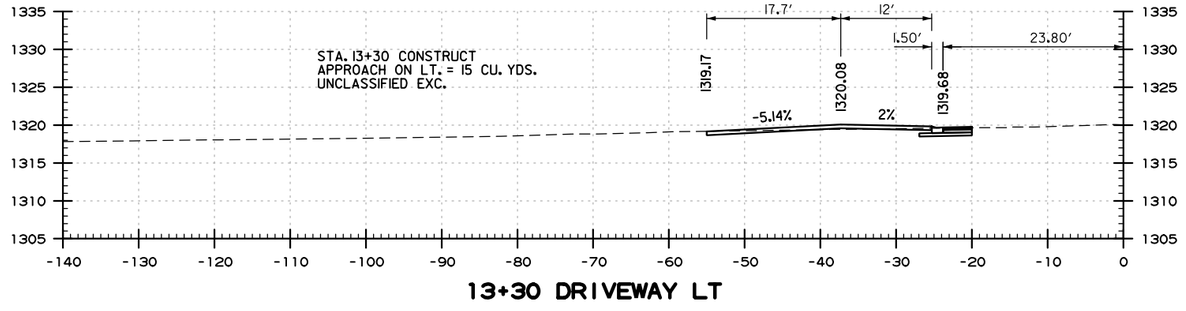
6+95 DRIVEWAY RT



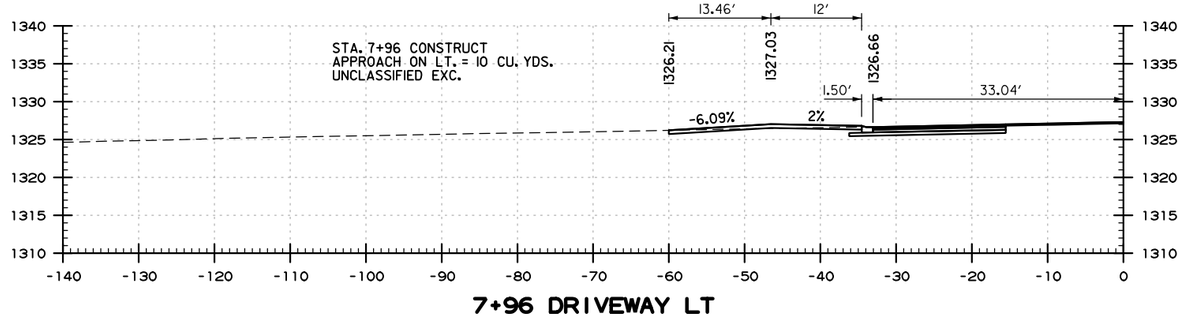
6+50 DRIVEWAY LT



6+11 DRIVEWAY LT



13+30 DRIVEWAY LT



7+96 DRIVEWAY LT

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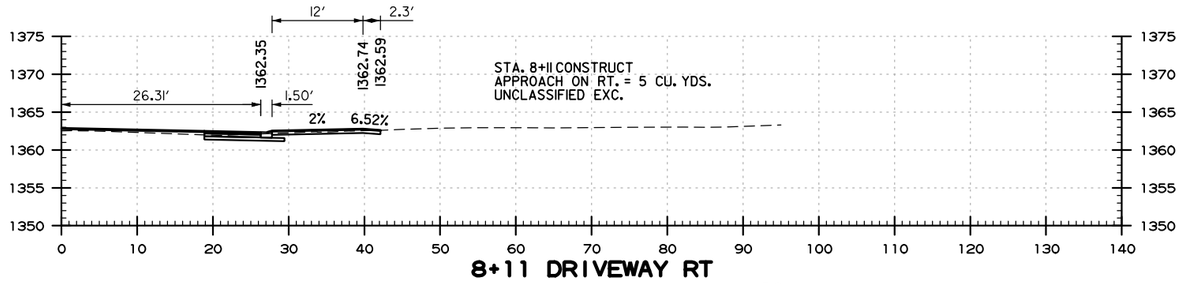
PLOTTED: 5/16/2023 16:53
MODEL: Driveway Profiles
SCALE: 1:20

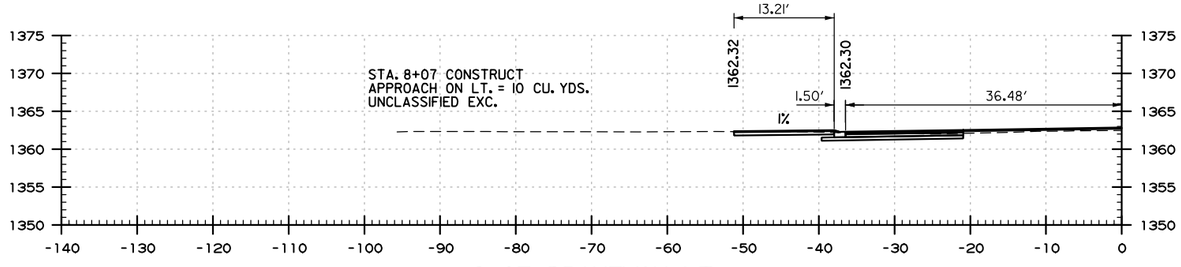
DIXIELAND RD. DRIVEWAY PROFILES
STA. 6+11.00 TO STA. 13+30.00

G:\III06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

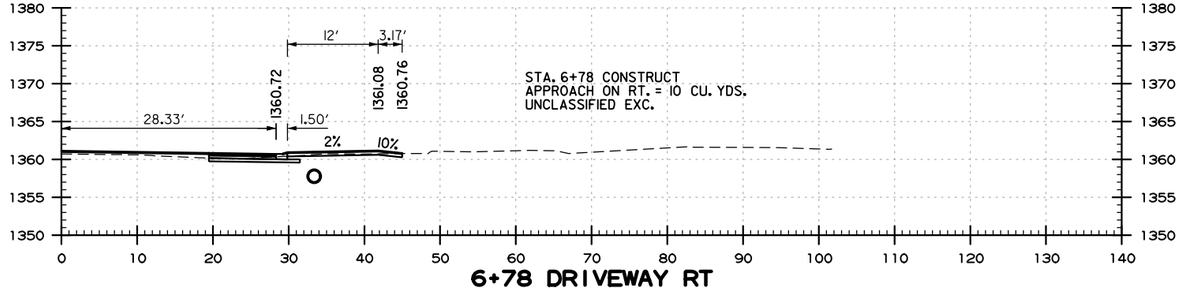
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	118	320
		E. WALNUT ST. - DRIVEWAY PROFILES				



8+11 DRIVEWAY RT



8+07 DRIVEWAY LT



6+78 DRIVEWAY RT

USER: JJ5206
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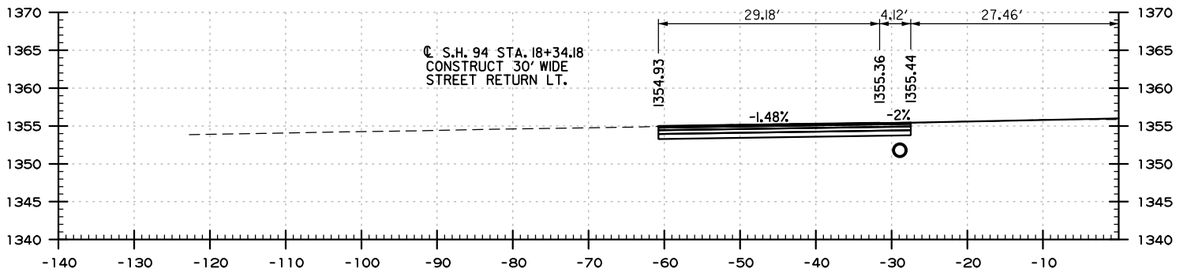
PLOTTED: 5/16/2023 16:53 SCALE: 1:20

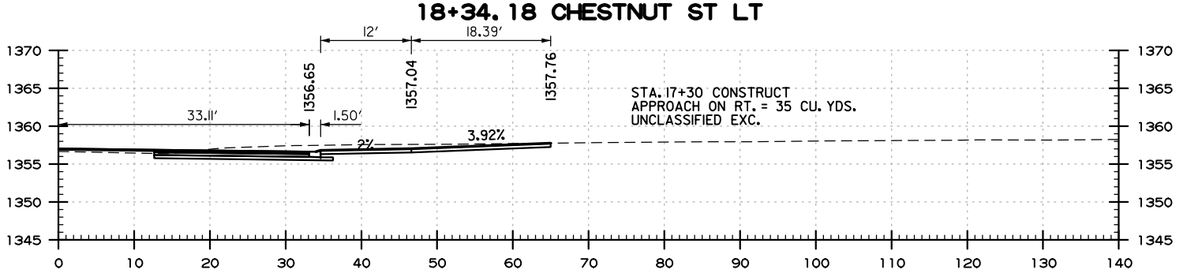
E. WALNUT ST. DRIVEWAY PROFILES
STA. 6+78.00 TO STA. 8+11.00

G:\II06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

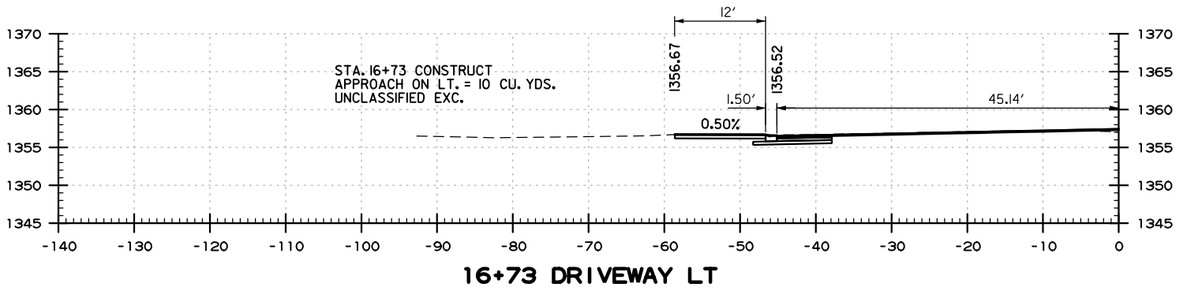
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	119	320
		N. 8TH ST. - DRIVEWAY PROFILES				



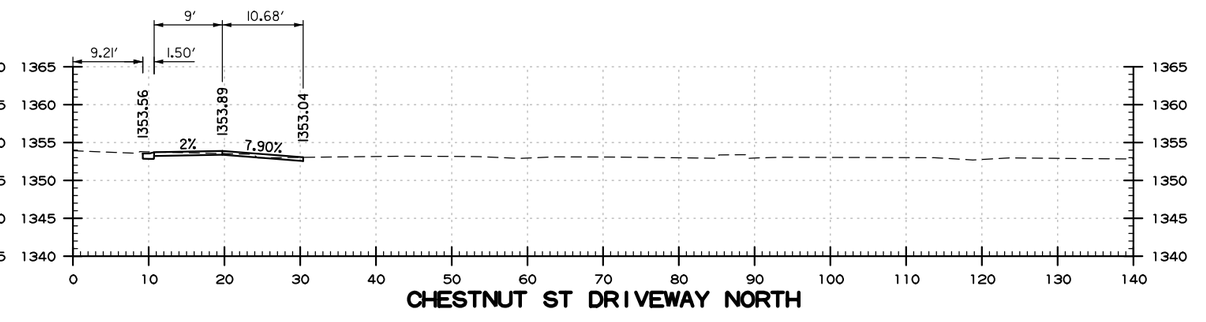
18+34.18 CHESTNUT ST LT



17+30 DRIVEWAY RT



16+73 DRIVEWAY LT



CHESTNUT ST DRIVEWAY NORTH

N. 8TH ST. (HWY. 94) DRIVEWAY PROFILES
STA. 16+73.00 TO STA. 18+34.18

G:\III06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 16:53

USER: JJ5206
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PLOTTED: 5/16/2023 16:53
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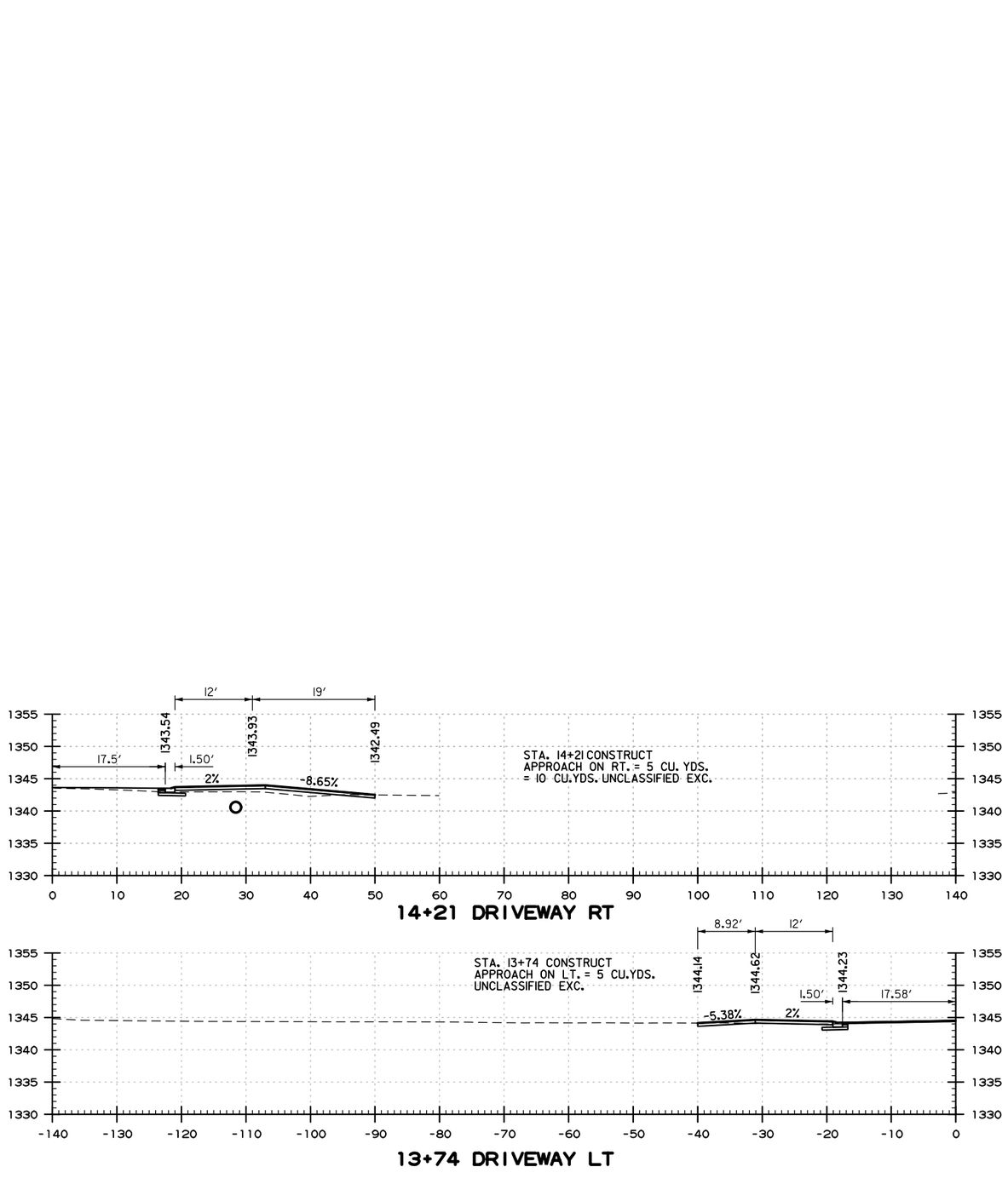
SCALE: 1:20

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	120	320
		13TH ST. - DRIVEWAY PROFILES				



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PLOTTED: 5/16/2023 16:53
MODEL: Driveway Profiles
SCALE: 1:20

13TH ST DRIVEWAY PROFILES
STA. 13+74.00 TO STA. 14+21.00

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	121	320
		SUMMARY OF TRAFFIC SIGNAL QUANTITIES				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-20-2024

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	HWY. 71B & DIXIELAND RD.	HWY. 71B & 13TH ST.	HWY. 71B & 8TH ST.	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)	2	1	2	5	EACH
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	2	1	2	5	EACH
SP	CELLULAR MODEM	2	1	2	5	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	24	8	24	56	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	4	4	4	12	EACH
SP	RELOCATION OF TRAFFIC SIGNAL HEAD	12	12	12	36	EACH
SP & 707	CENTRAL CONTROL UNIT	1	1	1	3	EACH
SP & 707	POLE MOUNTED ASSEMBLY	8	8	8	24	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	8	8	24	EACH
708	TRAFFIC SIGNAL CABLE (5C/12 A.W.G.)	1500	1420	931	3851	LIN. FT.
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	3036	2471	3174	8681	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	621	400	764	1785	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	714	663	688	2065	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	959	802	712	2473	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	220	220	220	660	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	204	67	134	405	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	946	887	896	2729	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	149	43	117	309	LIN. FT.
709	GALVANIZED STEEL CONDUIT (3")	60	41	60	161	LIN. FT.
710	NON-METALLIC CONDUIT (2")	61		46	107	LIN. FT.
710	NON-METALLIC CONDUIT (3")	784	767	494	2045	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 2)	2		8	10	EACH
SS & 711	CONCRETE PULL BOX (TYPE 1 HD)	3	3	2	8	EACH
SS & 711	CONCRETE PULL BOX (TYPE 2 HD)	6	7		13	EACH
SS & 713	SPAN WIRE ASSEMBLY	1		1	2	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (42')		2		2	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (44')		1		1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (48')		1		1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (50')			1	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (52')			1	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (54')			2	2	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (60')	1			1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (64')	2			2	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (66')	1			1	EACH
SP	LED LUMINAIRE ASSEMBLY	4	4	4	12	EACH
SP, SS, & 714	MAST ARM EXTENSION (5')		1		1	EACH
SP, SS, & 714	MAST ARM EXTENSION (10')		1		1	EACH
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	4	6	1	11	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	2	1	2	5	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	0.40	0.20	0.40	1.00	LUMP SUM
716	TREATED WOOD POLE (CLASS 2, 45')	4		5	9	EACH
SP	18" STREET NAME SIGN	4	4	4	12	EACH
SP	VIDEO DETECTOR ROTATION	4		4	8	EACH
SP & 733	VIDEO DETECTOR (IP)	4	4	4	12	EACH
SP & 733	HYBRID VIDEO/RADAR DETECTOR	4	4	4	12	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	1966	1708	1860	5534	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	2	2	2	6	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	2	2	2	6	EACH

LOCATION: HWY. 71B
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: FLS

USER: cp5181
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\ISUMMARY OF QUANTITIES.dgn
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SCALE: 1:1
MODEL: TRAFFIC SIGNAL QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	122	320
		TRAFFIC SIGNAL NOTES				

TRAFFIC SIGNAL NOTES:

1. THE TRAFFIC SIGNAL SHALL NOT BE PUT INTO OPERATION OR SWITCHED TO THE NEXT CONSTRUCTION STAGE PRIOR TO THE FOLLOWING:
   A. ALL TRAFFIC SIGNAL EQUIPMENT HAS BEEN INSTALLED ACCORDING TO THE PLANS, SPECIAL PROVISIONS, AND PROPERLY FUNCTIONAL. THIS INCLUDES BUT NOT LIMITED TO: CABINETS, PULL BOXES, JUNCTION BOXES, POLES, MAST ARMS, FOUNDATIONS, LUMINAIRES, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS, DETECTION SYSTEM, CONDUITS, CONDUCTORS, CABLES, TRAFFIC CONTROLLER, CONFLICT MONITOR, COMMUNICATION SYSTEM, SERVICE POINT, AND RAILROAD INTERCONNECT SYSTEM.
   B. THE DETECTION SYSTEM SHALL BE INSTALLED, SETUP, AND CONFIGURED BY THE CONTRACTOR OR THEIR SUPPLIER PER PLANS. A TRAFFIC OPERATIONS INSPECTOR SHALL INSPECT AND PROVIDE APPROVAL IN ORDER TO PUT THE TRAFFIC SIGNAL INTO OPERATION.
   C. THE TRAFFIC CONTROLLER AND CONFLICT MONITOR SHALL BE PROGRAMMED TO OPERATE AS REQUIRED PER THE PLANS (PHASING DIAGRAM, INTERVAL CHART, AND ANY ADDITIONAL NOTES), SPECIAL PROVISIONS AND ARDOT SPECIFICATIONS.
   D. TIMING SETTINGS HAVE BEEN PROGRAMMED AND APPROVED AS REQUIRED BY ITS MANAGEMENT SECTION-MAINTENANCE DIVISION.
   E. THE TRAFFIC SIGNAL HAS BEEN INSPECTED AND APPROVED BY A TRAFFIC OPERATIONS INSPECTOR.
   F. ALL REQUIRED DOCUMENTS RELATED TO THE TRAFFIC SIGNAL EQUIPMENT, THIS INCLUDES BUT NOT LIMITED TO: TEST RESULTS, CONFIGURATION/DATA REPORTS, WARRANTIES, AND ANY OTHER DOCUMENTATION REQUIRED PER PLANS AND SPECIAL PROVISIONS.
2. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.
3. TRAFFIC SIGNAL CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO SIGNAL RELATED WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR NOTIFICATION.
4. THE CONTRACTOR SHALL PERFORM ALL WORK POSSIBLE THAT WILL MINIMIZE THE TIME THAT THE TRAFFIC SIGNAL IS OUT OF OPERATION. IF, IN THE OPINION OF THE ENGINEER, TRAFFIC CONDITIONS WARRANT, THE CONTRACTOR SHALL PROVIDE FLAGMEN TO DIRECT TRAFFIC WHILE THE TRAFFIC SIGNAL IS OUT OF OPERATION.
5. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (CURRENT EDITION) NATIONAL ELECTRICAL CODE, NFPA 101 (CURRENT EDITION) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.
6. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND E.G.C. TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.
7. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. IF THE SERVICE POINT IS OVER 10 FEET FROM THE CONTROLLER, THE CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE TWO CIRCUIT EXTERNAL BREAKER (SECONDARY BREAKER) ON OR NEAR THE TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL INSTALL CONDUIT, ELECTRICAL SERVICE WIRE (2c/#6 A.W.G. USE RATED, WITH GROUND TYPICAL), AND PERFORM WIRING TO TAP INTO THE CITY'S/ COUNTY'S MAIN BREAKER AS PART OF THIS CONTRACT. CONDUIT IS PAID FOR AS A SEPARATE ITEM OF THIS CONTRACT. TWO CIRCUIT BREAKERS, CONSIDERED SUBSIDIARY TO THE CONTROL EQUIPMENT, ARE NEEDED WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2c/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT FROM THE CIRCUIT SERVING THE TRAFFIC SIGNAL CONTROL EQUIPMENT FROM THE POINT OF TIE-IN AT THE SECONDARY BREAKER PROVIDED BY THE CONTRACTOR.
8. CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.
9. TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.
10. CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.
11. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, STANDARD DRAWINGS, AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
12. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.
13. DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL JUMPERS MAY REQUIRE MODIFICATION.
14. ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER SURGE PROTECTION.
15. ONE VIDEO PROGRAMMNG MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE JOB.
16. HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE. COMBINATION (COMB.) DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.
17. THE LOCAL RADIO WITH ANTENNA AND TRAFFIC SIGNAL CONTROLLER SHALL BE COMPATIBLE WITH THE EXISTING COORDINATION SYSTEM IN THE CITY/COUNTY.
18. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHOD OR AS DIRECTED BY THE ENGINEER. PVC OR HDPE CONDUIT SHALL BE USED AND SHALL BE UL LISTED. PVC CONDUIT SHALL BE MARKED "DIR. BORING" OR "DIRECTIONAL BORING" PER NEC. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE STANDARD DRAWINGS MAY BE USED. THE ENGINEER SHALL GRANT A WRITTEN APPROVAL PRIOR TO USING THE TRENCHING METHOD.
19. ALL CONDUIT SHALL BE THREE (3") INCH DIAMETER UNLESS SPECIFIED ON PLANS. ALL CONDUIT UNDER THE ROADWAY, SIDEWALKS, AND DRIVEWAYS SHALL HAVE A MINIMUM DEPTH OF 24" FROM THE TOP OF THE CONDUIT TO THE FINISHED GRADE. CONDUIT DEPTH MAY NEED TO INCREASE NEAR DRAINAGE STRUCTURES.
20. CONDUIT BELL END FITTINGS SHALL BE INSTALLED ON ALL TERMINATING ENDS OF NON-METALLIC CONDUIT RUNS. THIS INCLUDES PULL BOXES, POLE BASES, AND TRAFFIC SIGNAL CABINETS. THE COST OF THE FITTINGS SHALL BE CONSIDERED SUBSIDARY TO THE PAY ITEM. ALL NON-METALLIC CONDUIT SHALL USE LONG SWEEP 90 DEGREE ELBOWS ON ALL CONDUIT BENDS.
21. ALL CONCRETE PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. PULL BOX LIDS SHALL CLOSE FLUSH WITHOUT PINCHING ANY CONDUCTORS. CONDUIT LENGTHS IN PULL BOXES SHALL BE SET ACCORDINGLY. ANY CONDUCTORS THAT HAVE BEEN DAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT THE CONTRACTOR'S EXPENSE.
22. ALL CONCRETE PULL BOXES SHALL BE SET ON A GRAVEL OR CRUSHED STONE BEDDING AS SPECIFIED IN SECTION 711, CONCRETE PULL BOX, OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014.
23. CONTRACTOR SHALL ATTACH A PERMANENT TAG OF RIGID PLASTIC OR NON-FERROUS METAL TO EACH CONDUIT AT PULLBOXES, POLE BASES, JUNCTION BOXES AND CONTROLLER CABINETS. TAGS SHALL BE EMBOSSED, STAMPED OR ENGRAVED WITH LETTERS 1/4" OR GREATER IN HEIGHT AND SECURED TO THE CONDUIT WITH NYLON OR PLASTIC TIES. EACH TAG SHALL INDICATE THE END LOCATION OF CONDUIT RUN. THE COST OF THE TAGS SHALL BE SUBSIDIARY TO THE CONDUIT PAY ITEM.
    EXAMPLES FOR CONDUIT IN SIDE CABINET: "TO POLE A AND B" OR "TO POLE C"
    EXAMPLES FOR CONDUIT IN PULL BOX: "TO POLE A" OR "TO TRAFFIC CABINET"
24. ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION (2001) WITH 2003 AND 2006 INTERIMS.
25. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED.
26. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING. PAYMENT FOR TERMINAL STRIPS SHALL BE INCLUDED IN ITEM 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

27. FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENTS FOR SIGNAL HEAD CLEARANCE ABOVE ROADWAY ONLY AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY (SEE NOTES ON STANDARD DRAWING). PAYMENT WILL BE INCLUDED IN SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
28. TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, THIRTY-EIGHT (38') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF TWENTY-ONE (21') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL SIX (6') FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR" AT LOCATIONS SHOWN ON THE SIGNAL PLANS.
29. THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS SIX (6') FEET. REFER TO TRAFFIC SIGNAL PLANS FOR SPECIFIC LOCATION OF POLES, CONTROLLER AND ANY OTHER NON-BREAKAWAY OBSTRUCTIONS. REFER TO "DESIGN PARAMETERS, MINIMUM CLEAR ZONE DISTANCE" FOR MINIMUM DISTANCE FROM THE EDGE OF TRAVELED WAY TO THE FACE OF A NON-BREAKAWAY POLE OR OBSTRUCTION. TRAFFIC SIGNAL POLES OR ANY OTHER NON-BREAKAWAY OBSTRUCTION SHALL NOT BE INSTALLED WITHIN THE CLEAR ZONE.
30. AS DETERMINED BY THE ENGINEER, FOUNDATION EMBEDMENT MAY BE DECREASED BY A MAXIMUM OF TWO FEET IF COMPETENT ROCK IS ENCOUNTERED PRIOR TO ACHIEVING PLAN EMBEDMENT AND AT LEAST HALF OF THE REMAINING PLAN EMBEDMENT LENGTH IS KEYED INTO COMPETENT ROCK.
31. LED LUMINAIRE ASSEMBLIES SHALL HAVE A BUG RATING OF U0.
32. BACKPLATES SHALL BE SUPPLIED FOR ALL TRAFFIC SIGNAL HEADS, REFER TO THE RETROREFLECTIVE BACKPLATES SPECIAL PROVISION FOR REQUIREMENTS.
33. PAVEMENT MARKINGS SHOWN FOR REFERENCE ONLY. SEE PERMANENT PAVEMENT MARKING DETAILS.
34. BEFORE FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL, THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF LEDGER SIZE (11" X 17") AS-BUILT TRAFFIC SIGNAL PLANS TO THE MAINTENANCE AUTHORITY AND ARDOT.
35. IN AREAS WHERE STAMPED BRICK CONCRETE IS TO BE PLACED AS SHOWN IN THE LANDSCAPE PLANS, PULL BOXES SHALL BE INSTALLED SO THEY CAN BE COMPLETELY WITHIN THE STAMPED AREA OR COMPLETELY OUTSIDE THE STAMPED CONCRETE AREA.

LOCATION: HWY. 71B
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jd5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\lsignal notes.dgn MODEL: TRAFFIC SIGNAL NOTES
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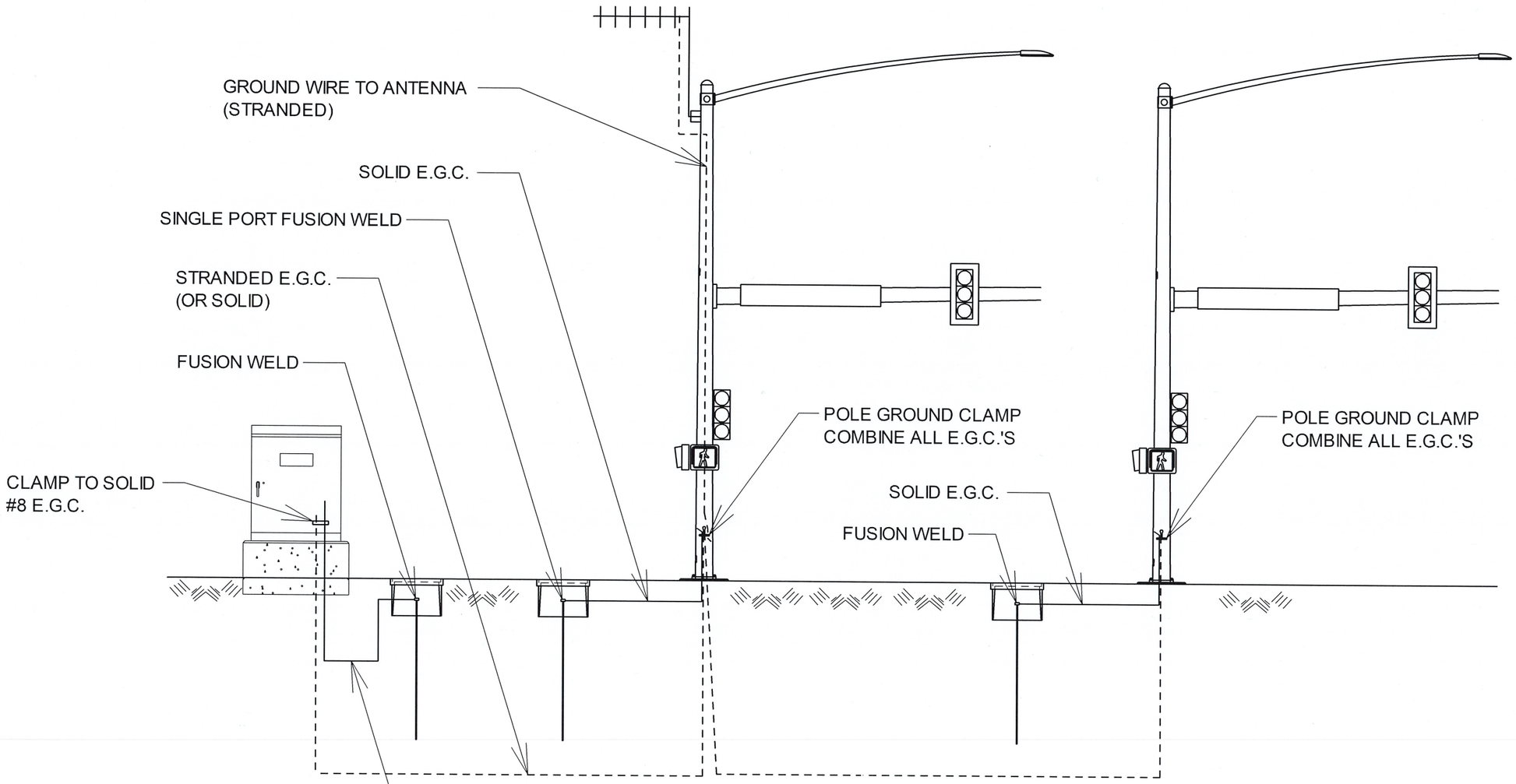
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	123	320
		GROUNDING ARRAY DETAIL				

GROUNDING ARRAY
SINGLE-PORT FUSION WELDS



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
05-17-2023

USER: JJ5206
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\ISYSTEM MAP.dgn MODEL: I02 SYSTEM MAP
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LOCATION: HWY. 71B
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=500' DRAWN BY: ETM

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	124	320
		TRAFFIC SIGNAL QUANTITIES DIXIELAND RD.				

STAGE 1 TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)	1	EACH
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	1	EACH
SP	CELLULAR MODEM	1	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	8	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	4	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	1242	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	621	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	110	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	110	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	106	LIN. FT.
709	GALVANIZED STEEL CONDUIT (3")	60	LIN. FT.
710	NON-METALLIC CONDUIT (2")	20	LIN. FT.
710	NON-METALLIC CONDUIT (3")	12	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 1 HD)	1	EACH
SS & 713	SPAN WIRE ASSEMBLY	1	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	0.20	LUMP SUM
716	TREATED WOOD POLE (CLASS 2, 45')	4	EACH
SP & 733	VIDEO DETECTOR (IP)	4	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	894	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	1	EACH

STAGE 1
INSTALL ALL STAGE 1 TRAFFIC SGNAL EQUIPMENT AND REMOVE ALL EXISTING TRAFFIC SIGNAL EQUIPMENT.
MAINTAIN THIS TRAFFIC SIGNAL CONFIGURATION AS SHOWN ON THE STAGE 1 TRAFFIC SIGNAL PLANS.
(REFER TO MAINTENANCE OF TRAFFIC DETAILS.)

STAGE 2 TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	RELOCATION OF TRAFFIC SIGNAL HEAD	12	EACH
SP	VIDEO DETECTOR ROTATION	4	EACH

STAGE 2
ROTATE ALL VIDEO DETECTORS AND RELOCATE ALL TRAFFIC SIGNAL HEADS TO ACCOMMODATE THE LANE SHIFTS AT HWY.
MAINTAIN THIS TRAFFIC SIGNAL CONFIGURATION AS SHOWN ON THE STAGE 2 TRAFFIC SIGNAL PLANS.
(REFER TO MAINTENANCE OF TRAFFIC DETAILS.)

PERMANENT TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)	1	EACH
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	1	EACH
SP	CELLULAR MODEM	1	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	16	EACH
SP & 707	CENTRAL CONTROL UNIT	1	EACH
SP & 707	POLE MOUNTED ASSEMBLY	8	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/12 A.W.G.)	1500	LIN. FT.
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	1794	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	714	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	849	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	220	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	94	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	946	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	43	LIN. FT.
710	NON-METALLIC CONDUIT (2")	41	LIN. FT.
710	NON-METALLIC CONDUIT (3")	772	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 2)	2	EACH
SS & 711	CONCRETE PULL BOX (TYPE 1 HD)	2	EACH
SS & 711	CONCRETE PULL BOX (TYPE 2 HD)	6	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (60')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (64')	2	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (66')	1	EACH
SP	LED LUMINAIRE ASSEMBLY	4	EACH
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	4	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	0.20	LUMP SUM
SP	18" STREET NAME SIGN	4	EACH
SP & 733	HYBRID VIDEO/RADAR DETECTOR	4	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	1072	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	1	EACH

PERMANENT TRAFFIC SIGNAL:
THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL REMAIN IN OPERATION UNTIL PERMANENT TRAFFIC SIGNAL IS COMPLETED AND OPERATIONAL. INSTALL THE PERMANENT TRAFFIC SIGNAL AND REMOVE ALL TEMPORARY TRAFFIC SIGNAL COMPONENTS.
(REFER TO PERMANENT TRAFFIC SIGNAL PLANS.)

STATE OF ARKANSAS
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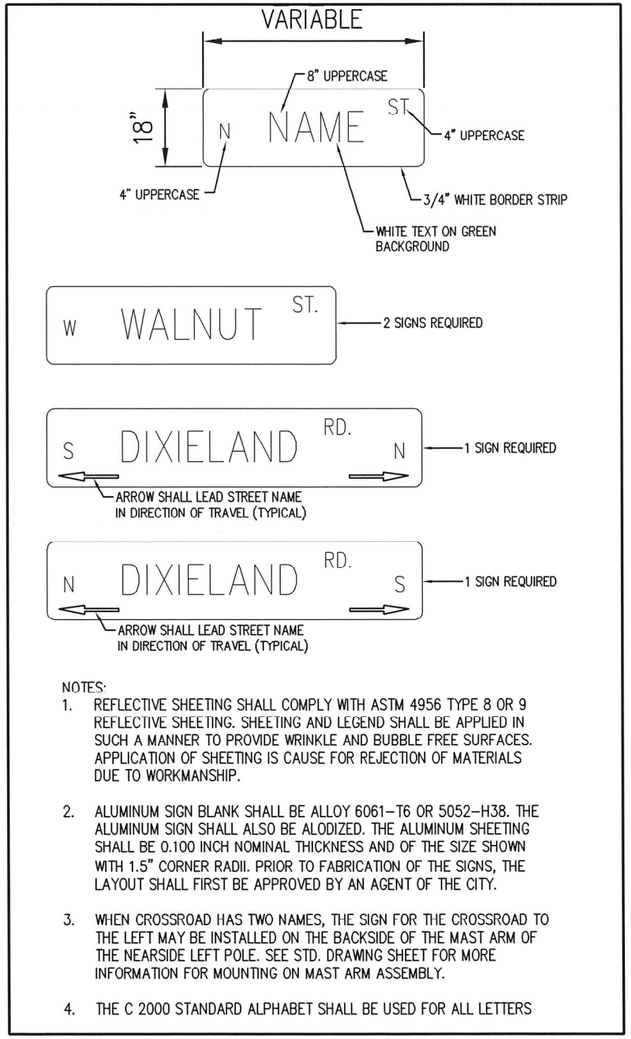
No. 15560
JEROME PAUL DAVIS
12.16.2024

OVERHEAD STREET NAME MARKER STANDARD MAST ARM MOUNTED



NOTES:
1. REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES. APPLICATION OF SHEETING IS CAUSE FOR REJECTION OF MATERIALS DUE TO WORKMANSHIP.
2. ALUMINUM SIGN BLANK SHALL BE ALLOY 6061–T6 OR 5052–H38. THE ALUMINUM SIGN SHALL ALSO BE ALODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN WITH 1.5" CORNER RADII. PRIOR TO FABRICATION OF THE SIGNS, THE LAYOUT SHALL FIRST BE APPROVED BY AN AGENT OF THE CITY.
3. WHEN CROSSROAD HAS TWO NAMES, THE SIGN FOR THE CROSSROAD TO THE LEFT MAY BE INSTALLED ON THE BACKSIDE OF THE MAST ARM OF THE NEARSIDE LEFT POLE. SEE STD. DRAWING SHEET FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.
4. THE C 2000 STANDARD ALPHABET SHALL BE USED FOR ALL LETTERS

LOCATION: HWY. 71B/DIXIELAND RD.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc6296
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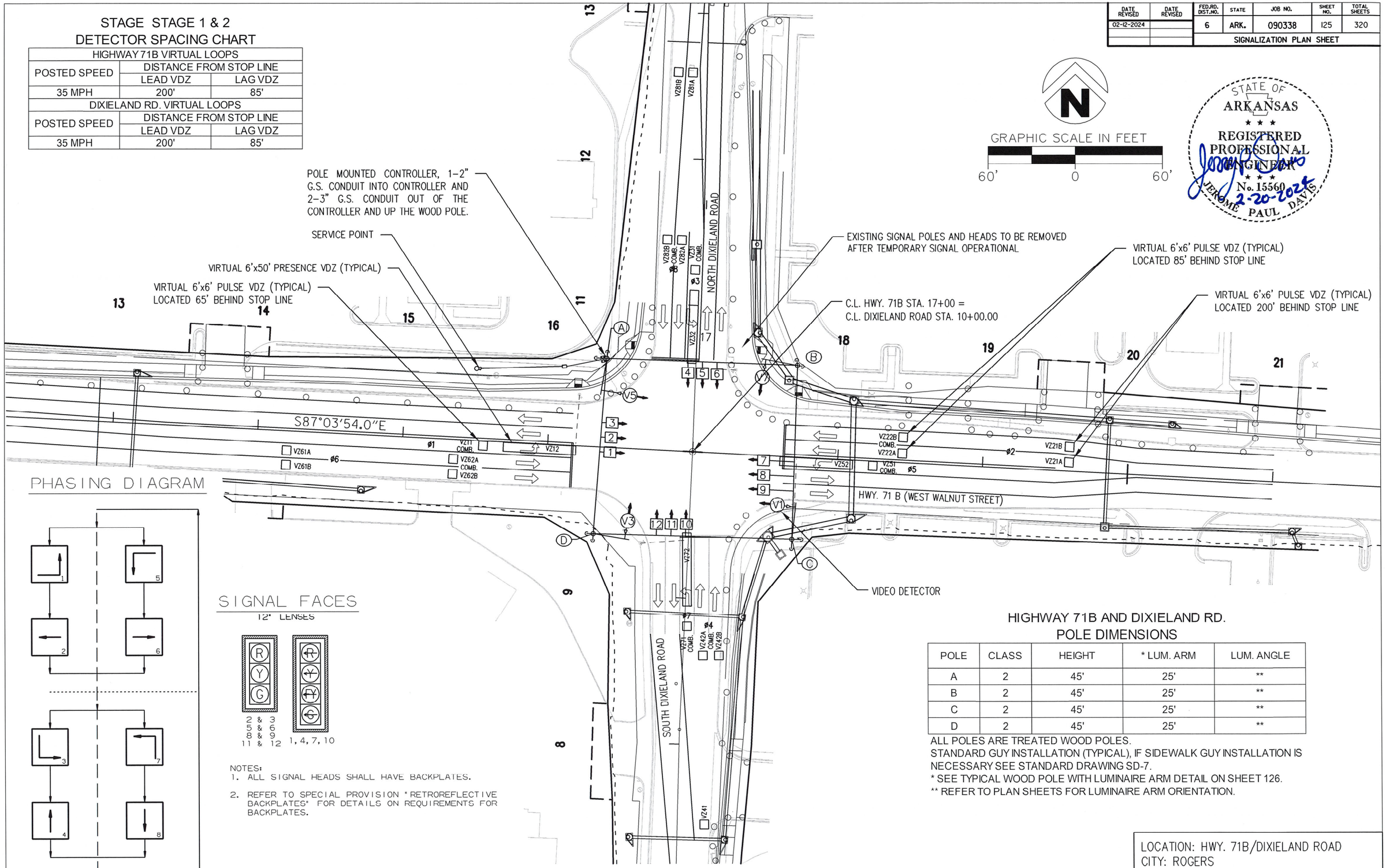
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	125	320
		SIGNALIZATION PLAN SHEET				

STAGE STAGE 1 & 2
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
DIXIELAND RD. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-20-2024

PHASING DIAGRAM

SIGNAL FACES

12" LENSES

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

HIGHWAY 71B AND DIXIELAND RD.
POLE DIMENSIONS

POLE	CLASS	HEIGHT	* LUM. ARM	LUM. ANGLE
A	2	45'	25'	**
B	2	45'	25'	**
C	2	45'	25'	**
D	2	45'	25'	**

ALL POLES ARE TREATED WOOD POLES.
STANDARD GUY INSTALLATION (TYPICAL), IF SIDEWALK GUY INSTALLATION IS NECESSARY SEE STANDARD DRAWING SD-7.
* SEE TYPICAL WOOD POLE WITH LUMINAIRE ARM DETAIL ON SHEET 126.
** REFER TO PLAN SHEETS FOR LUMINAIRE ARM ORIENTATION.

STAGE I CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: dp5181
DESIGN FILE: G:\1106100_Walnut St\TRANSP\dgn\SIGNALS\IMOT PHI SIGNAL.dgn
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SCALE: 1:1
MODEL: MOT | @ DIXIELAND 60SCALE

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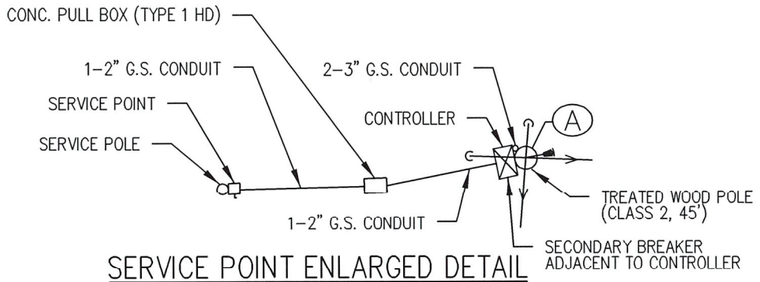
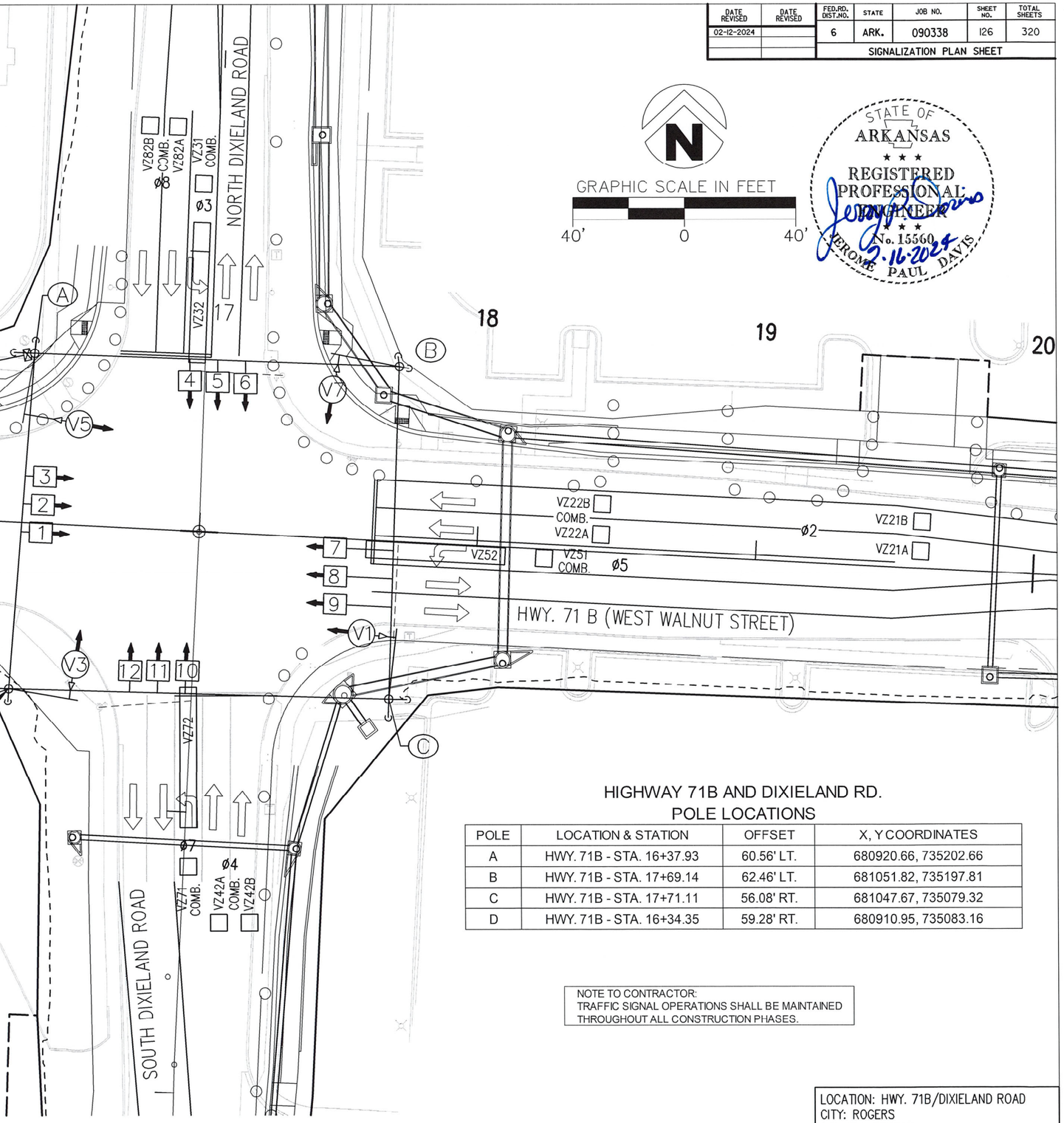
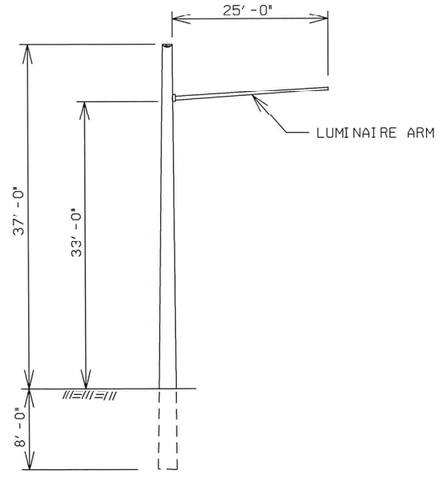
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	126	320
		SIGNALIZATION PLAN SHEET				



SERVICE POINT ENLARGED DETAIL

NOTE: SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER.





TREATED WOOD POLE (CLASS 2, 45') (TYPICAL)

TYPICAL WOOD POLE WITH LUMINAIRE ARM

NOTE TO CONTRACTOR:
LUMINAIRE ARMS (OR APPROVED MOUNTING HARDWARE) SHALL BE USED TO MOUNT VIDEO DETECTORS.
LUMINAIRE ARM SHALL NOT INCLUDE LUMINAIRE ASSEMBLIES.
THE COST FOR LUMINAIRE ARMS, MOUNTING, AND ALL HARDWARE IS INCLUDED IN PRICE BID FOR ITEM 716 TREATED WOOD POLE.

HIGHWAY 71B AND DIXIELAND RD. POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 16+37.93	60.56' LT.	680920.66, 735202.66
B	HWY. 71B - STA. 17+69.14	62.46' LT.	681051.82, 735197.81
C	HWY. 71B - STA. 17+71.11	56.08' RT.	681047.67, 735079.32
D	HWY. 71B - STA. 16+34.35	59.28' RT.	680910.95, 735083.16

NOTE TO CONTRACTOR:
TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.

STAGE I CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5296
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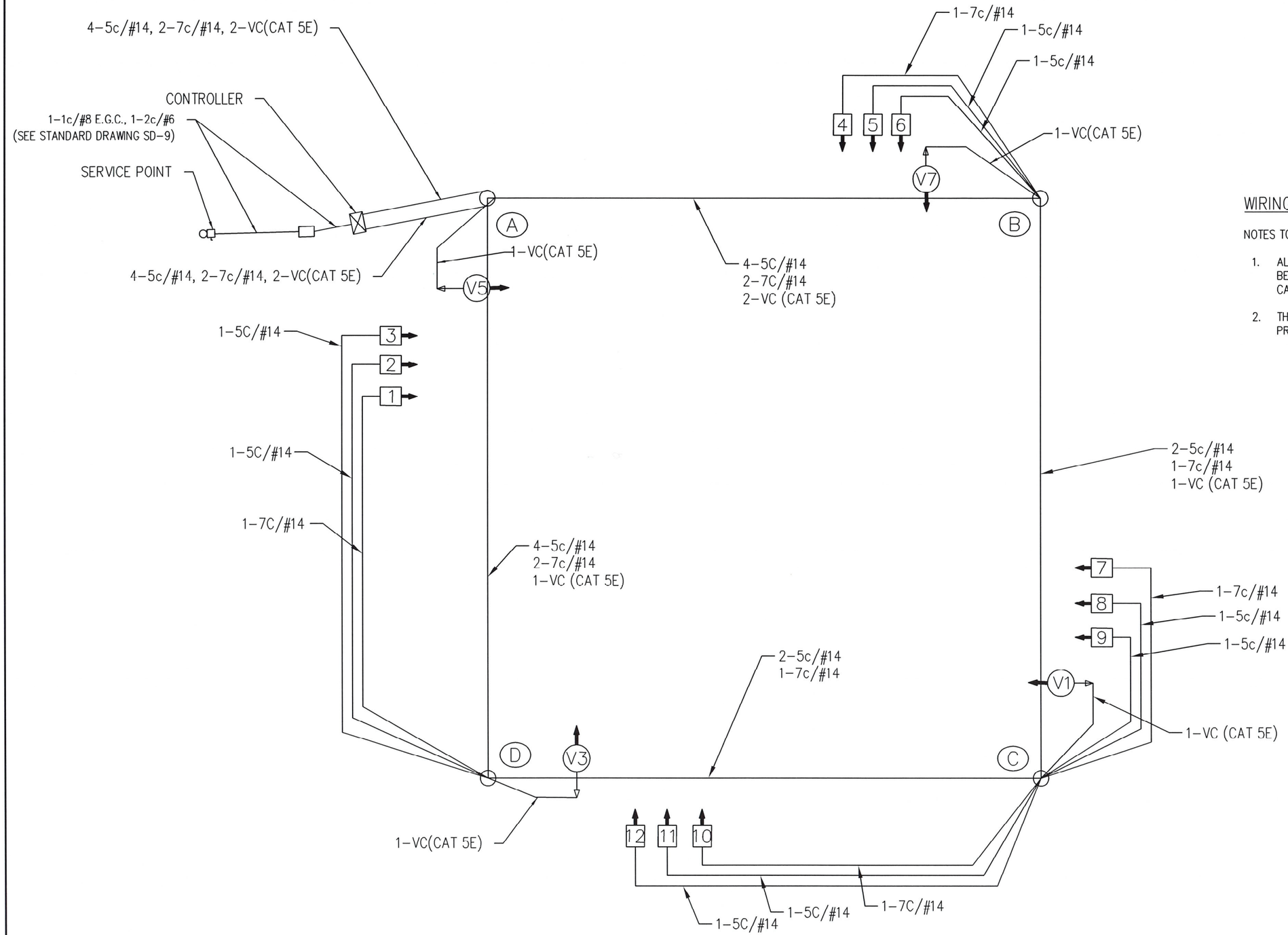
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	127	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-20-2024

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
2. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.

STAGE I CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: dp518
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\IM0T PHI SIGNAL.dgn MODEL: MOT ø DIXIELAND WIRING DIAGRAM
PLOTTED: 2/20/2024 16:06 SCALE: 1:1

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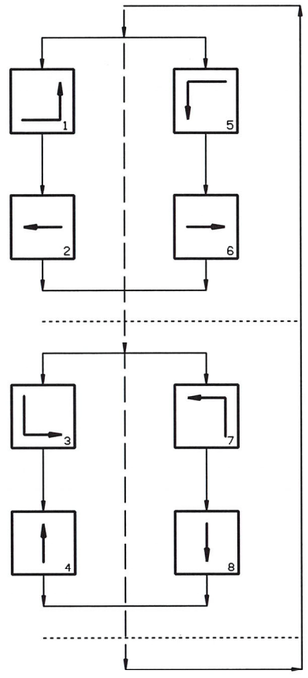
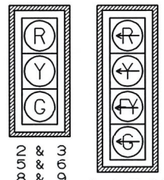
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	128	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



2 & 3
5 & 6
8 & 9
11 & 12

1, 4, 7, 10

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-11-2024

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND DIXIELAND RD. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #	DETECTOR NUMBERS		
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	23"
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	23"
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V5	23"
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	23"
Vz31	SB LEFT TURN FAR	COMB.			9	V11	3	3		CAMERA V3	23"
Vz32	SB LEFT TURN	LOCAL			10	V3	3			CAMERA V3	23"
Vz41	NB ADVANCE	LOCAL			13	V4	4			CAMERA V7	23"
Vz42 A&B	NB NEAR	COMB.			14	V12	4	4		CAMERA V7	23"
Vz51	WB LEFT TURN FAR	COMB.			7	V13	5	5		CAMERA V5	23"
Vz52	WB LEFT TURN	LOCAL			8	V5	5			CAMERA V5	23"
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V1	23"
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	23"
Vz71	NB LEFT TURN FAR	COMB.			15	V15	7	7		CAMERA V7	23"
Vz72	NB LEFT TURN	LOCAL			16	V7	7			CAMERA V7	23"
Vz81 A&B	SB ADVANCE	LOCAL			11	V8	8			CAMERA V3	23"
Vz82 A&B	SB NEAR	COMB.			12	V16	8	8		CAMERA V3	23"
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: "AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND DIXIELAND RD. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQUENCE
1	~~←G~~	*	~~←FY~~	***	~~←G~~	*	~~←FY~~	***	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
4	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←G~~	*	~~←FY~~	***	~~←G~~	*	~~←FY~~	***	~~←R~~
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	~~←G~~	*	~~←G~~	*	~~←FY~~	***	~~←FY~~	***	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
10	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←G~~	*	~~←G~~	*	~~←FY~~	***	~~←FY~~	***	~~←R~~
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

STAGE I CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jd5296
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn MODEL: MOT I@ DIXIELAND charts
PLOTTED: 2/16/2024 15:34 SCALE: 1:1

G:\111106100_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn 2/16/2024 15:34

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	129	320
		SIGNALIZATION PLAN SHEET				

STAGE STAGE 1 & 2
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
DIXIELAND RD. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

GRAPHIC SCALE IN FEET
60' 0 60'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

C.L. HWY. 71B STA. 17+00 =
C.L. DIXIELAND ROAD STA. 10+00.00

NORTH DIXIELAND ROAD

HWY. 71B (WEST WALNUT STREET)

HWY. 71 B (WEST WALNUT STREET)

SOUTH DIXIELAND ROAD

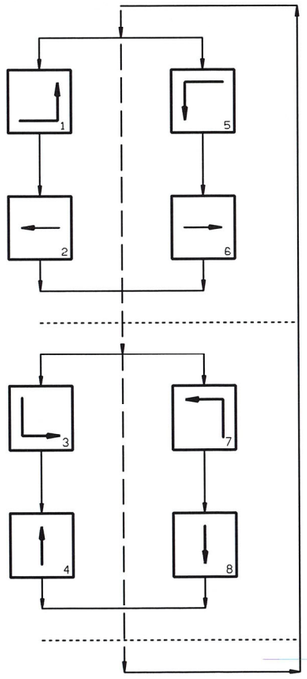
VIRTUAL 6'x6' PULSE VDZ (TYPICAL)
LOCATED 85' BEHIND STOP LINE

VIRTUAL 6'x6' PULSE VDZ (TYPICAL)
LOCATED 200' BEHIND STOP LINE

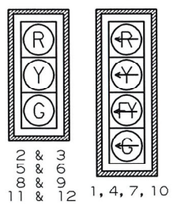
VIRTUAL 6'x6' PULSE VDZ (TYPICAL)
LOCATED 65' BEHIND STOP LINE

VIRTUAL 6'x50' PRESENCE VDZ (TYPICAL)

PHASING DIAGRAM



SIGNAL FACES
12" LENSES



NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

HIGHWAY 71B AND DIXIELAND RD.
POLE DIMENSIONS

POLE	CLASS	HEIGHT	* LUM. ARM	LUM. ANGLE
A	2	45'	25'	**
B	2	45'	25'	**
C	2	45'	25'	**
D	2	45'	25'	**

ALL POLES ARE TREATED WOOD POLES.
STANDARD GUY INSTALLATION (TYPICAL), IF SIDEWALK GUY INSTALLATION IS NECESSARY SEE STANDARD DRAWING SD-7.
* SEE TYPICAL WOOD POLE WITH LUMINAIRE ARM DETAIL ON SHEET 126.
** REFER TO PLAN SHEETS FOR LUMINAIRE ARM ORIENTATION.

STAGE II CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061.00_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PH2 SIGNAL.dgn MODEL: Dixieland (GScale)
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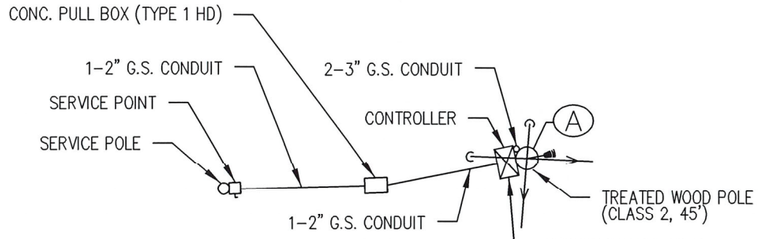
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	130	320
		SIGNALIZATION PLAN SHEET				



SERVICE POINT ENLARGED DETAIL

NOTE: SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER.

GRAPHIC SCALE IN FEET

40' 0 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

STAGE II:
ROTATE ALL VIDEO DETECTORS AND RELOCATE ALL SIGNAL HEADS TO ACCOMMODATE LANE SHIFT FOR HWY. 71B AND DIXIELAND RD.

SERVICE POINT

NORTH DIXIELAND ROAD

HWY. 71B (WEST WALNUT STREET)

VZ61A, VZ61B, ø6, ø1, VZ11 COMB., VZ12, VZ62A COMB., VZ62B, VZ82B COMB., VZ82A, ø8, VZ31 COMB., ø3, VZ32, VZ22B COMB., VZ22A, ø2, VZ21B, VZ21A, VZ51 COMB., ø5, VZ52

C.L. HWY. 71B STA. 17+00 =
C.L. DIXIELAND ROAD STA. 10+00.00

SOUTH DIXIELAND ROAD

VZ71 COMB., ø7, VZ42A COMB., VZ42B, ø4, VZ72

HIGHWAY 71B AND DIXIELAND RD.
POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 16+37.93	60.56' LT.	680920.66, 735202.66
B	HWY. 71B - STA. 17+69.14	62.46' LT.	681051.82, 735197.81
C	HWY. 71B - STA. 17+71.11	56.08' RT.	681047.67, 735079.32
D	HWY. 71B - STA. 16+34.35	59.28' RT.	680910.95, 735083.16

NOTE TO CONTRACTOR:
TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.

STAGE II CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5296
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PLOTTED: 2/16/2024 15:34 SCALE: 1:1

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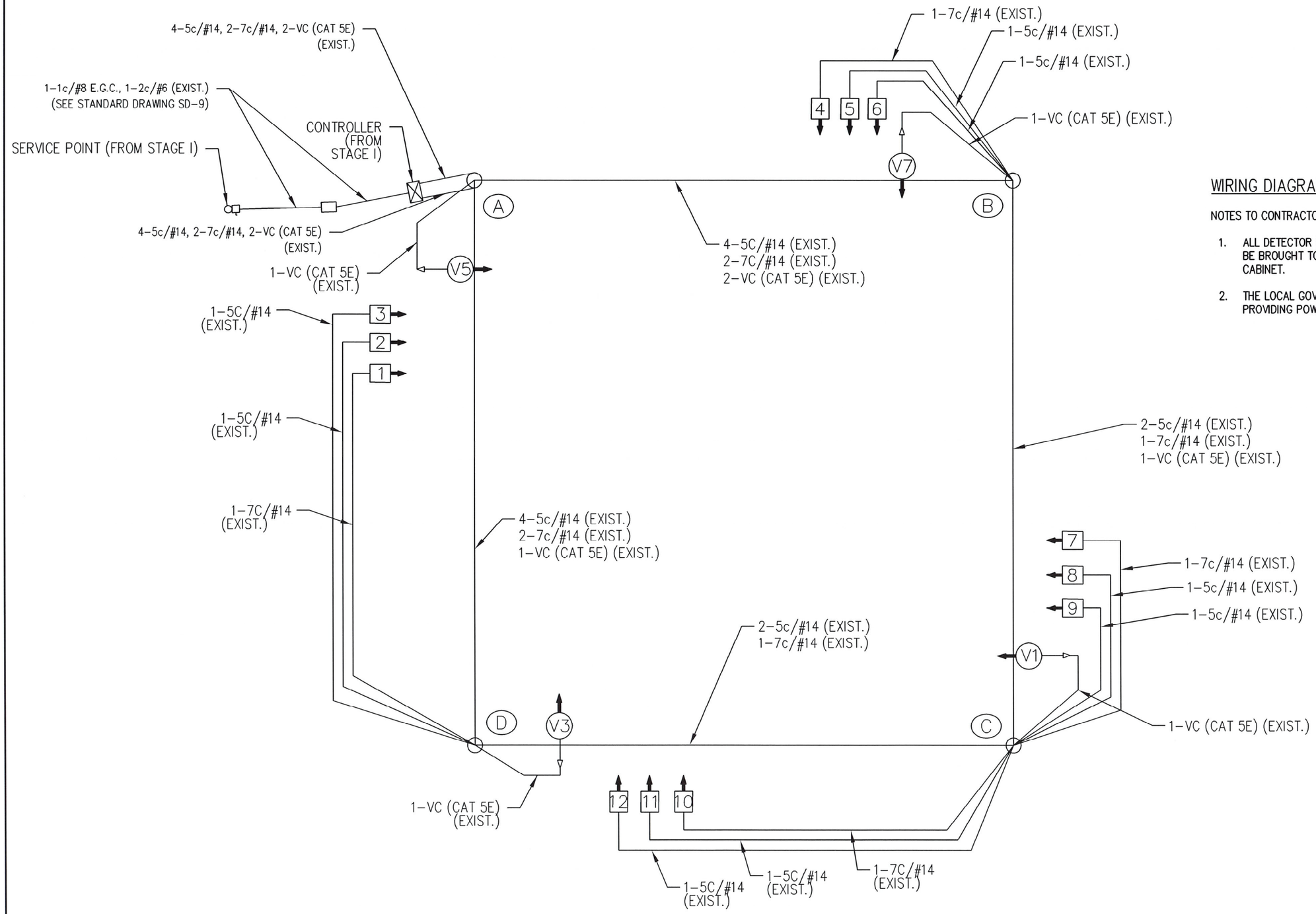
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	131	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2.20.2024

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
2. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.

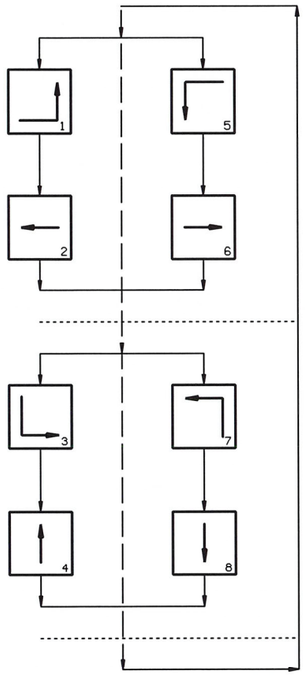
STAGE II CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: qp518
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\SIGNALS\IMOT PH2 WIRING DIAGRAMS.dgn
PLOTTED: 2/20/2024 16:06
SCALE: 1:1
MODEL: MOT 10 DIXIE AND WIRING DIAGRAM

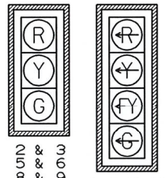
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	132	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



2 & 3
5 & 6
8 & 9
11 & 12

1, 4, 7, 10

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION 'RETROREFLECTIVE BACKPLATES' FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAYS
2.16.2024

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND DIXIELAND RD. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS LOCAL		MASTER SYSTEM DETECTOR NUMBERS	COMMENTS	TUBE LENGTHS
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #			
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	23"
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	23"
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V5	23"
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	23"
Vz31	SB LEFT TURN FAR	COMB.			9	V11	3	3		CAMERA V3	23"
Vz32	SB LEFT TURN	LOCAL			10	V3	3			CAMERA V3	23"
Vz41	NB ADVANCE	LOCAL			13	V4	4			CAMERA V7	23"
Vz42 A&B	NB NEAR	COMB.			14	V12	4	4		CAMERA V7	23"
Vz51	WB LEFT TURN FAR	COMB.			7	V13	5	5		CAMERA V5	23"
Vz52	WB LEFT TURN	LOCAL			8	V5	5			CAMERA V5	23"
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V1	23"
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	23"
Vz71	NB LEFT TURN FAR	COMB.			15	V15	7	7		CAMERA V7	23"
Vz72	NB LEFT TURN	LOCAL			16	V7	7			CAMERA V7	23"
Vz81 A&B	SB ADVANCE	LOCAL			11	V8	8			CAMERA V3	23"
Vz82 A&B	SB NEAR	COMB.			12	V16	8	8		CAMERA V3	23"
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: "AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND DIXIELAND RD. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQUENCE
1	~~<G~~	*	~~<FY~~	***	~~<G~~	*	~~<FY~~	***	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
4	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<G~~	*	~~<FY~~	***	~~<G~~	*	~~<FY~~	***	~~<R~~
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	~~<G~~	*	~~<G~~	*	~~<FY~~	***	~~<FY~~	***	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
10	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<G~~	*	~~<G~~	*	~~<FY~~	***	~~<FY~~	***	~~<R~~
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

STAGE II CONSTRUCTION: HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PH2 SIGNAL.dgn MODEL: DIXIELAND charts
PLOTTED: 2/16/2024 15:34 SCALE: 1:1

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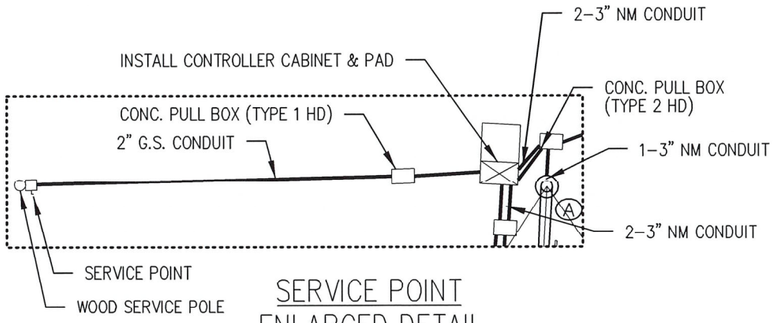
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	133	320
		SIGNALIZATION PLAN SHEET				



SERVICE POINT ENLARGED DETAIL

SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER

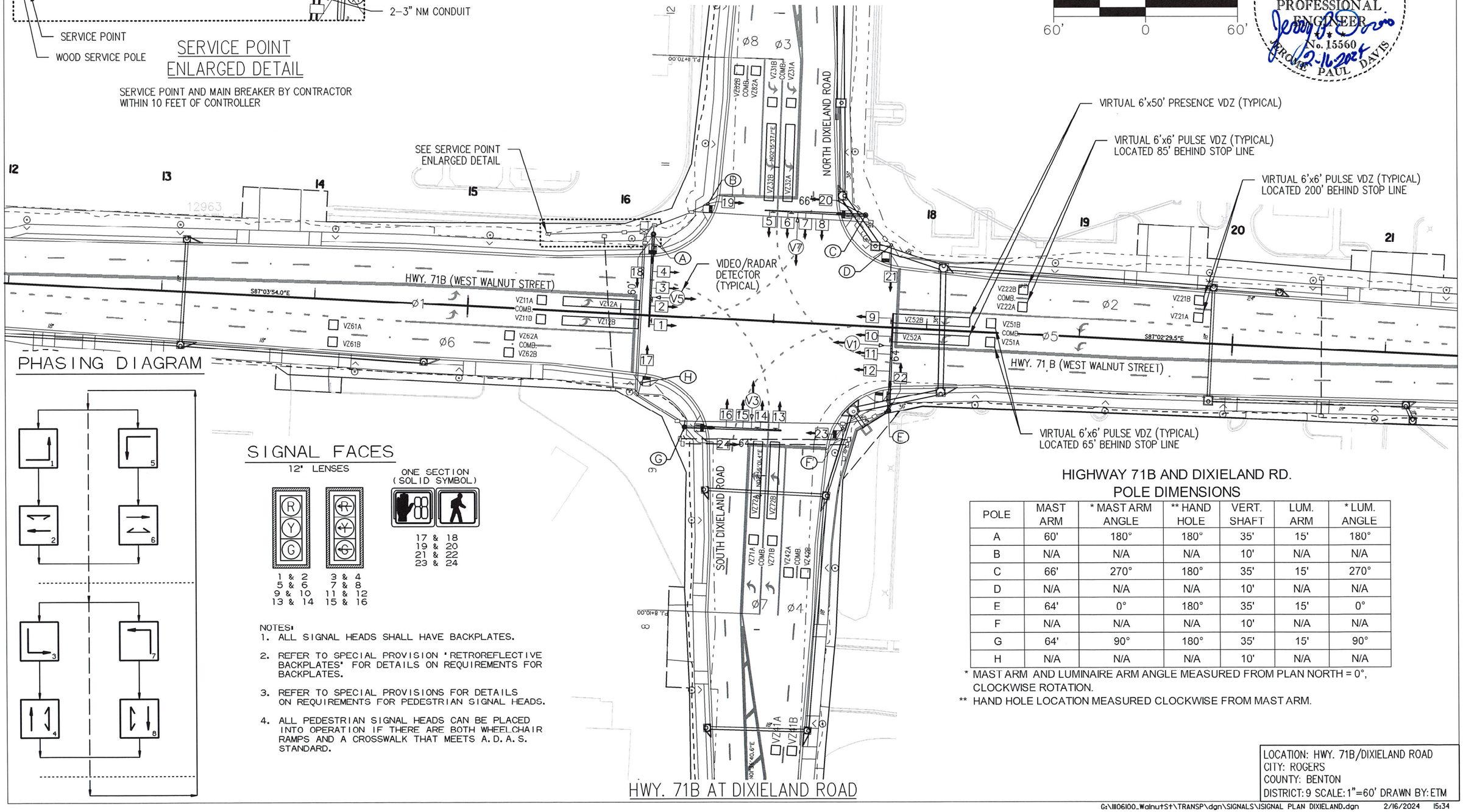
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
DIXIELAND RD. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

GRAPHIC SCALE IN FEET

60' 0 60'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024



PHASING DIAGRAM

SIGNAL FACES

12" LENSES

1 & 2
5 & 6
9 & 10
13 & 14

3 & 4
7 & 8
11 & 12
15 & 16

ONE SECTION (SOLID SYMBOL)

17 & 18
19 & 20
21 & 22
23 & 24

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.

HIGHWAY 71B AND DIXIELAND RD. POLE DIMENSIONS

POLE	MAST ARM	* MAST ARM ANGLE	** HAND HOLE	VERT. SHAFT	LUM. ARM	* LUM. ANGLE
A	60'	180°	180°	35'	15'	180°
B	N/A	N/A	N/A	10'	N/A	N/A
C	66'	270°	180°	35'	15'	270°
D	N/A	N/A	N/A	10'	N/A	N/A
E	64'	0°	180°	35'	15'	0°
F	N/A	N/A	N/A	10'	N/A	N/A
G	64'	90°	180°	35'	15'	90°
H	N/A	N/A	N/A	10'	N/A	N/A

* MAST ARM AND LUMINAIRE ARM ANGLE MEASURED FROM PLAN NORTH = 0°, CLOCKWISE ROTATION.

** HAND HOLE LOCATION MEASURED CLOCKWISE FROM MAST ARM.

HWY. 71B AT DIXIELAND ROAD

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jg5296
DESIGN FILE: G:\III06100_Walnut St\TRANSP\dgn\SIGNALS\SIGNAL PLAN DIXIELAND.dgn MODEL: SIGNALIZATION PLAN SHEET (60SCALE)
PLOTTED: 2/16/2024 15:34 SCALE: 1:1

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	134	320
		SIGNALIZATION PLAN SHEET				

CONTROLLER CABINET LOCATION

LOCATION & STATION	* OFFSET	* X, Y COORDINATES
HWY. 71B - STA. 16+12.63	53.91' LT.	680895.06, 735197.32

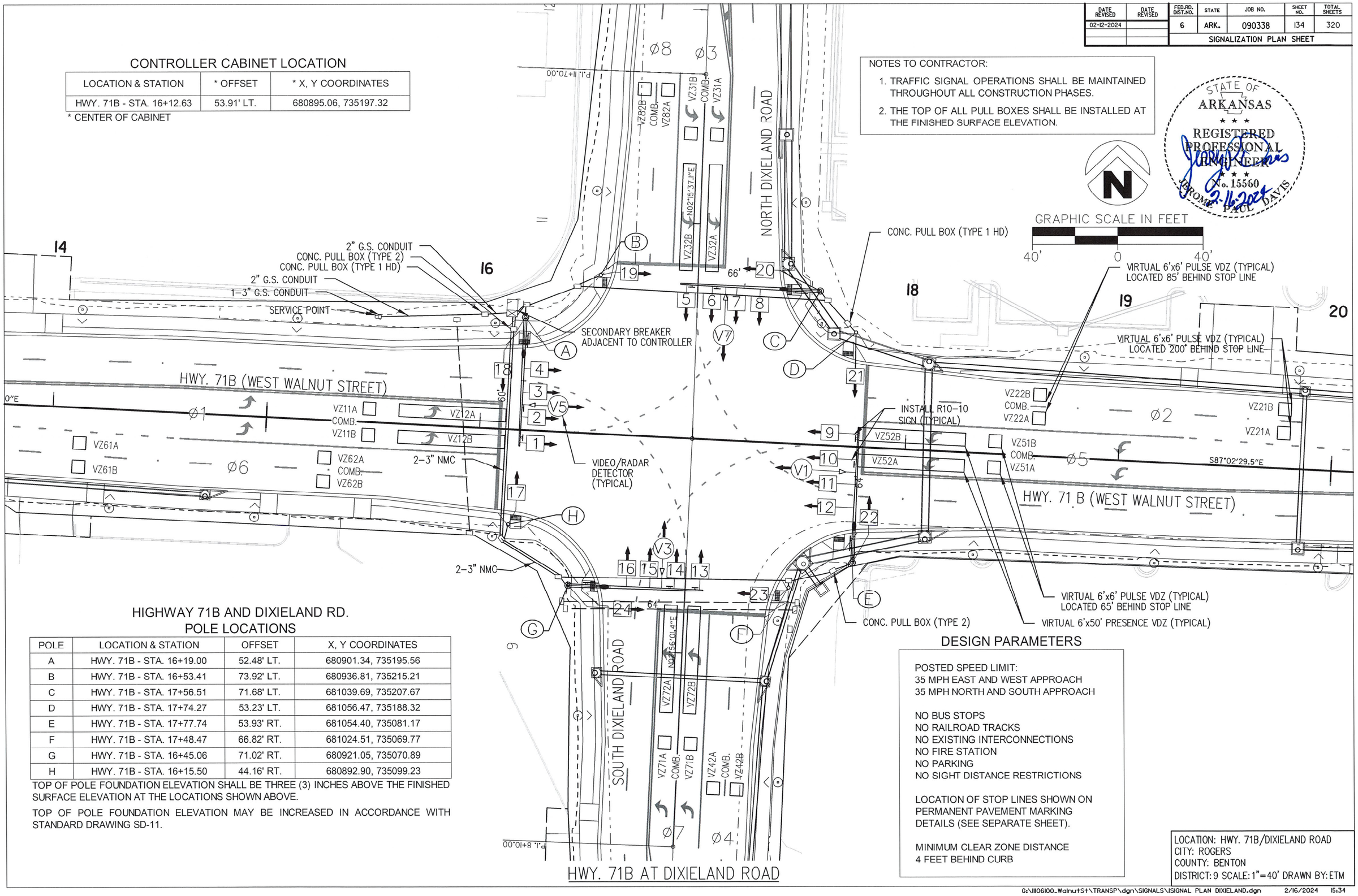
* CENTER OF CABINET

NOTES TO CONTRACTOR:

1. TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
2. THE TOP OF ALL PULL BOXES SHALL BE INSTALLED AT THE FINISHED SURFACE ELEVATION.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

GRAPHIC SCALE IN FEET
40' 0 40'



HIGHWAY 71B AND DIXIELAND RD. POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 16+19.00	52.48' LT.	680901.34, 735195.56
B	HWY. 71B - STA. 16+53.41	73.92' LT.	680936.81, 735215.21
C	HWY. 71B - STA. 17+56.51	71.68' LT.	681039.69, 735207.67
D	HWY. 71B - STA. 17+74.27	53.23' LT.	681056.47, 735188.32
E	HWY. 71B - STA. 17+77.74	53.93' RT.	681054.40, 735081.17
F	HWY. 71B - STA. 17+48.47	66.82' RT.	681024.51, 735069.77
G	HWY. 71B - STA. 16+45.06	71.02' RT.	680921.05, 735070.89
H	HWY. 71B - STA. 16+15.50	44.16' RT.	680892.90, 735099.23

TOP OF POLE FOUNDATION ELEVATION SHALL BE THREE (3) INCHES ABOVE THE FINISHED SURFACE ELEVATION AT THE LOCATIONS SHOWN ABOVE.

TOP OF POLE FOUNDATION ELEVATION MAY BE INCREASED IN ACCORDANCE WITH STANDARD DRAWING SD-11.

DESIGN PARAMETERS

POSTED SPEED LIMIT:
35 MPH EAST AND WEST APPROACH
35 MPH NORTH AND SOUTH APPROACH

NO BUS STOPS
NO RAILROAD TRACKS
NO EXISTING INTERCONNECTIONS
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

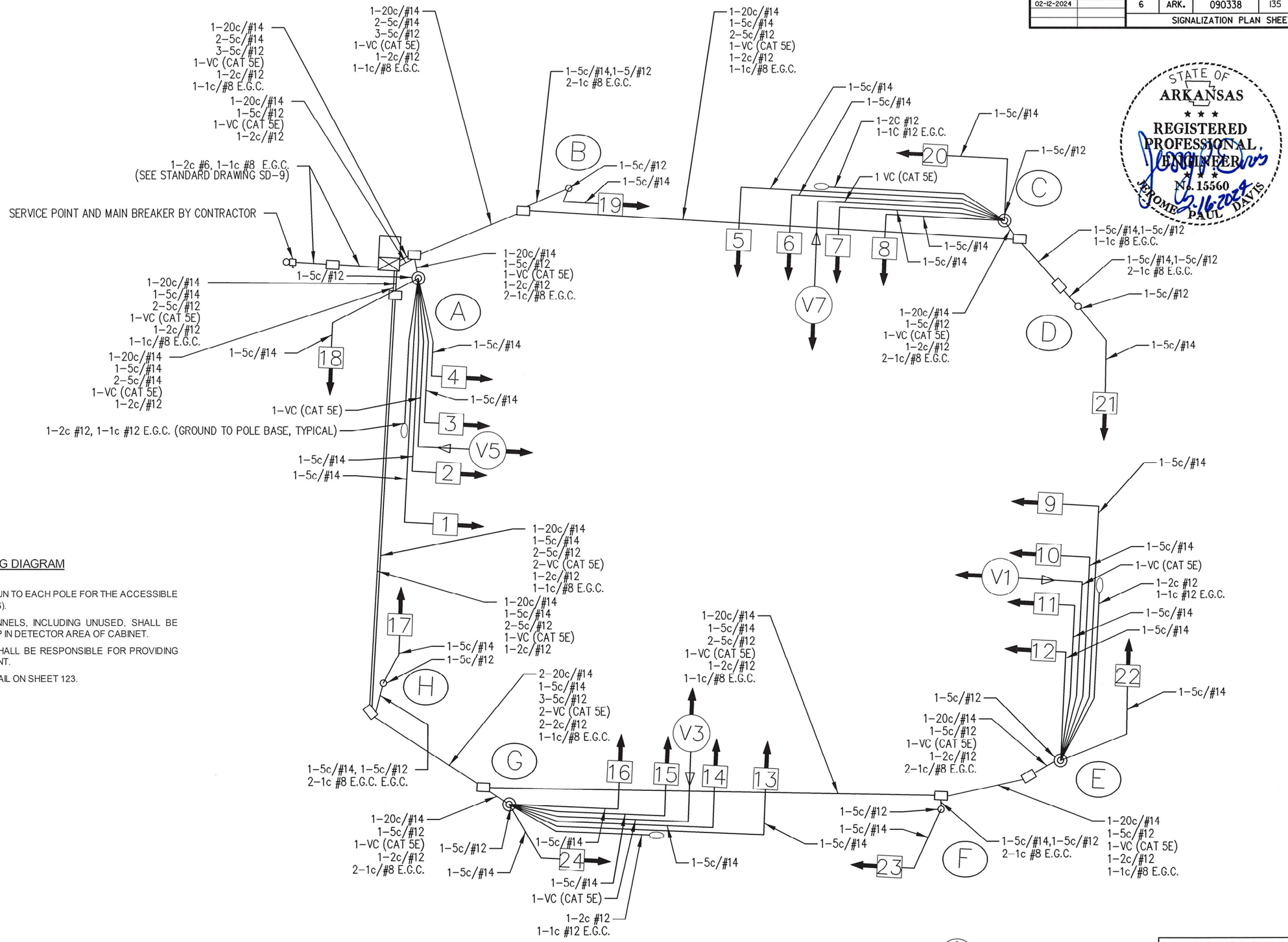
LOCATION OF STOP LINES SHOWN ON PERMANENT PAVEMENT MARKING DETAILS (SEE SEPARATE SHEET).

MINIMUM CLEAR ZONE DISTANCE
4 FEET BEHIND CURB

LOCATION: HWY. 71B/DIXIELAND ROAD
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5236
DESIGN FILE: G:\110600_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN DIXIELAND.dgn MODEL: SIGNALIZATION PLAN SHEET (40SCALE)
PLOTTED: 2/16/2024 15:34 SCALE: 1=1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	135	320
		SIGNALIZATION PLAN SHEET				



WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ONE SEPARATE 1-5c/#12 IS RUN TO EACH POLE FOR THE ACCESSIBLE PEDESTRIAN PUSH BUTTON(S).
2. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
3. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.
4. SEE GROUNDING ARRAY DETAIL ON SHEET 123.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
5-16-2024

HWY. 71B AT DIXIELAND ROAD

NTS

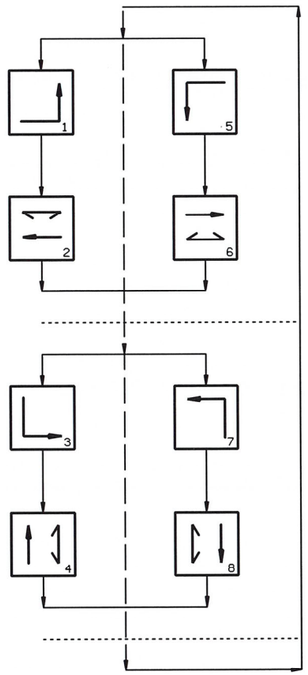
LOCATION: HWY. 71B/DIXIELAND RD.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

G:\III06100_Walnut St\TRANSP\dgn\SIGNALS\ISIGNAL PLAN DIXIELAND.dgn 2/16/2024 15:34

USER: jd5296
DESIGN FILE: G:\III06100_Walnut St\TRANSP\dgn\SIGNALS\ISIGNAL PLAN DIXIELAND.dgn MODEL: WIRING DIAGRAM
PLOTTED: 2/16/2024 15:34 SCALE: 1:1

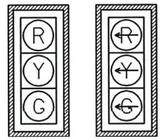
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	136	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



1 & 2
5 & 6
9 & 10
13 & 14

3 & 4
7 & 8
11 & 12
15 & 16

ONE SECTION
(SOLID SYMBOL)



17 & 18
19 & 20
21 & 22
23 & 24

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12.16.2024

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND DIXIELAND RD. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #	DETECTOR NUMBERS		
Vz11 A&B	EB LEFT TURN FAR	COMB.				V9	1	1		CAMERA V1	
Vz12 A&B	EB LEFT TURN	LOCAL				V1	1			CAMERA V1	
Vz21 A&B	WB ADVANCE	LOCAL				V2	2			CAMERA V5	
Vz22 A&B	WB NEAR	COMB.				V10	2	2		CAMERA V5	
Vz31 A&B	SB LEFT TURN FAR	COMB.				V11	3	3		CAMERA V3	
Vz32 A&B	SB LEFT TURN	LOCAL				V3	3			CAMERA V3	
Vz41 A&B	NB ADVANCE	LOCAL				V4	4			CAMERA V7	
Vz42 A&B	NB NEAR	COMB.				V12	4	4		CAMERA V7	
Vz51 A&B	WB LEFT TURN FAR	COMB.				V13	5	5		CAMERA V5	
Vz52 A&B	WB LEFT TURN	LOCAL				V5	5			CAMERA V5	
Vz61 A&B	EB ADVANCE	LOCAL				V6	6			CAMERA V1	
Vz62 A&B	EB NEAR	COMB.				V14	6	6		CAMERA V1	
Vz71 A&B	NB LEFT TURN FAR	COMB.				V15	7	7		CAMERA V7	
Vz72 A&B	NB LEFT TURN	LOCAL				V7	7			CAMERA V7	
Vz81 A&B	SB ADVANCE	LOCAL				V8	8			CAMERA V3	
Vz82 A&B	SB NEAR	COMB.				V16	8	8		CAMERA V3	
PB2 A&B	DIXIELAND RD. N. LEG	PED.				P2	2				
PB4 A&B	HWY. 71B E. LEG	PED.				P4	4				
PB6 A&B	DIXIELAND RD. S. LEG	PED.				P6	6				
PB8 A&B	HWY. 71B W. LEG	PED.				P8	8				
						SPARE:					

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2
HYBRID VIDEO/RADAR DETECTORS ARE MAST ARM MOUNTED.

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND DIXIELAND RD. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQUENCE
1 & 2	~~←G~~	*	~~←R~~	~~←R~~	~~←G~~	*	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~
3 & 4	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
5 & 6	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←G~~	*	~~←R~~	~~←R~~	~~←G~~	*	~~←R~~	~~←R~~	~~←R~~
7 & 8	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
9 & 10	~~←G~~	*	~~←G~~	*	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~
11 & 12	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
13 & 14	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←G~~	*	~~←G~~	*	~~←R~~	~~←R~~	~~←R~~	~~←R~~	~~←R~~
15 & 16	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
17 & 18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLK
19 & 20	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK
21 & 22	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLK
23 & 24	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE

LOCATION: HWY. 71B/DIXIELAND RD.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\110610O_Walnut St\TRANSP\dgn\SIGNALS\SIGNAL PLAN DIXIELAND.dgn MODEL: SIGNALIZATION CHARTS
PLOTTED: 2/16/2024 15:34 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	137	320
		TRAFFIC SIGNAL QUANTITIES 13TH ST.				

STAGE 1 TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	RELOCATION OF TRAFFIC SIGNAL HEAD	6	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	118	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	74	LIN. FT.
SP, SS, & 714	MAST ARM EXTENSION (10')	1	EACH
SP & 733	VIDEO DETECTOR (IP)	4	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	696	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	1	EACH

STAGE 1
EXISTING TRAFFIC SIGNAL TO BE UTILIZED FOR STAGE CONSTRUCTION. INSTALL 10 FOOT MAST EXTENSION ON POLE A. INSTALL NEW VIDEO DETECTION SYSTEM AND RELOCATE SIGNAL HEADS 1, 2, 3, 7, 8, & 9 TO ACCOMMODATE THE LANE SHIFT ON HWY. 71B. REFER TO ADDITIONAL NOTES ON THE PLAN SHEETS.
MAINTAIN THIS TRAFFIC SIGNAL CONFIGURATION AS SHOWN ON THE STAGE 1 TRAFFIC SIGNAL PLANS.
(REFER TO MAINTENANCE OF TRAFFIC DETAILS.)

STAGE 2 TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	RELOCATION OF TRAFFIC SIGNAL HEAD	6	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	110	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	72	LIN. FT.
SP, SS, & 714	MAST ARM EXTENSION (5')	1	EACH

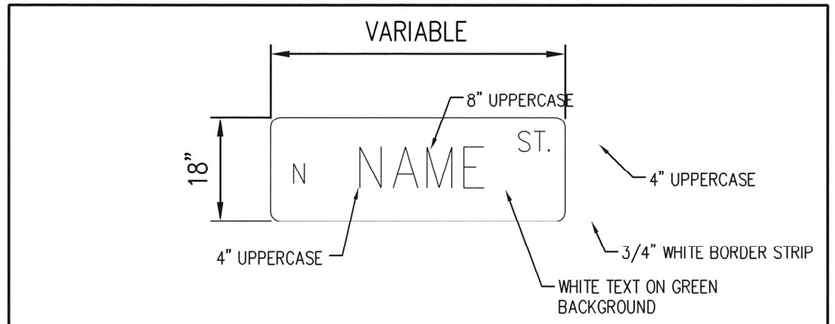
STAGE 2
EXISTING TRAFFIC SIGNAL TO BE UTILIZED FOR STAGE CONSTRUCTION. INSTALL 5 FOOT MAST EXTENSION ON POLE C. RELOCATE SIGNAL HEADS 1, 2, 3, 7, 8, & 9 TO ACCOMMODATE THE LANE SHIFT ON HWY. 71B. REFER TO ADDITIONAL NOTES ON THE PLAN SHEETS.
MAINTAIN THIS TRAFFIC SIGNAL CONFIGURATION AS SHOWN ON THE STAGE 2 TRAFFIC SIGNAL PLANS.
(REFER TO MAINTENANCE OF TRAFFIC DETAILS.)

PERMANENT TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)	1	EACH
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	1	EACH
SP	CELLULAR MODEM	1	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	8	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	4	EACH
SP & 707	CENTRAL CONTROL UNIT	1	EACH
SP & 707	POLE MOUNTED ASSEMBLY	8	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/12 A.W.G.)	1420	LIN. FT.
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	2243	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	254	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	663	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	802	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	220	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	67	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	887	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	43	LIN. FT.
709	GALVANIZED STEEL CONDUIT (3")	41	LIN. FT.
710	NON-METALLIC CONDUIT (3")	767	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 1 HD)	3	EACH
SS & 711	CONCRETE PULL BOX (TYPE 2 HD)	7	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (42')	2	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (44')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (48')	1	EACH
SP	LED LUMINAIRE ASSEMBLY	4	EACH
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	6	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	0.20	LUMP SUM
SP	18" STREET NAME SIGN	4	EACH
SP & 733	HYBRID VIDEO/RADAR DETECTOR	4	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	1012	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	1	EACH

PERMANENT TRAFFIC SIGNAL:
THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL REMAIN IN OPERATION UNTIL PERMANENT TRAFFIC SIGNAL IS COMPLETED AND OPERATIONAL. INSTALL THE PERMANENT TRAFFIC SIGNAL AND REMOVE ALL TEMPORARY TRAFFIC SIGNAL COMPONENTS.
(REFER TO PERMANENT TRAFFIC SIGNAL PLANS.)

OVERHEAD STREET NAME MARKER STANDARD MAST ARM MOUNTED





2 SIGNS REQUIRED



1 SIGN REQUIRED

ARROW SHALL LEAD STREET NAME IN DIRECTION OF TRAVEL (TYPICAL)



1 SIGN REQUIRED

ARROW SHALL LEAD STREET NAME IN DIRECTION OF TRAVEL (TYPICAL)

NOTES:
1. REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES. APPLICATION OF SHEETING IS CAUSE FOR REJECTION OF MATERIALS DUE TO WORKMANSHIP.

2. ALUMINUM SIGN BLANK SHALL BE ALLOY 6061-T6 OR 5052-H38. THE ALUMINUM SIGN SHALL ALSO BE ALODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN WITH 1.5" CORNER RADII. PRIOR TO FABRICATION OF THE SIGNS, THE LAYOUT SHALL FIRST BE APPROVED BY AN AGENT OF THE CITY.

3. WHEN CROSSROAD HAS TWO NAMES, THE SIGN FOR THE CROSSROAD TO THE LEFT MAY BE INSTALLED ON THE BACKSIDE OF THE MAST ARM OF THE NEARSIDE LEFT POLE. SEE STD. DETAIL DRAWING FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.

4. THE C 2000 STANDARD ALPHABET SHALL BE USED FOR ALL LETTERS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-20-2024

LOCATION: HWY. 71B/13TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: ap5181
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN THIRTEENTH STREET.dgn
PLOTTED: 2/20/2024 17:06
SCALE: 1:1
MODEL: TRAFFIC SIGNAL QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	138	320
		SIGNALIZATION PLAN SHEET				

STAGE 1 & 2
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

13TH ST. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

GRAPHIC SCALE IN FEET
60' 0 60'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

VIRTUAL 6'x50' PRESENCE VDZ (TYPICAL)
VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 65' BEHIND STOP LINE
VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 85' BEHIND STOP LINE
VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 200' BEHIND STOP LINE

NORTH 13TH STREET
SOUTH 13TH STREET
HWY. 71B (WEST WALNUT STREET) S87°03'49.0"E
HWY. 71B (WEST WALNUT STREET) S86°47'55.9"E
10' MAST ARM EXTENSION

VZ11 COMB. VZ12 VZ61A VZ61B VZ62A COMB. VZ62B VZ81 VZ82 COMB. VZ31 COMB. VZ32 VZ22B COMB. VZ22A VZ21B VZ21A VZ52 VZ51 COMB. VZ72 VZ71 COMB. VZ42 COMB. VZ41

C.L. HWY. 71B STA. 43+26.63=
C.L. 13TH ST. STA. 15+00.00

STAGE I:
INSTALL NEW VIDEO DETECTION SYSTEM AND RELOCATE SIGNAL HEADS 1, 2, 3, 7, 8, AND 9 TO ACCOMMODATE LANE SHIFT FOR HWY. 71B.

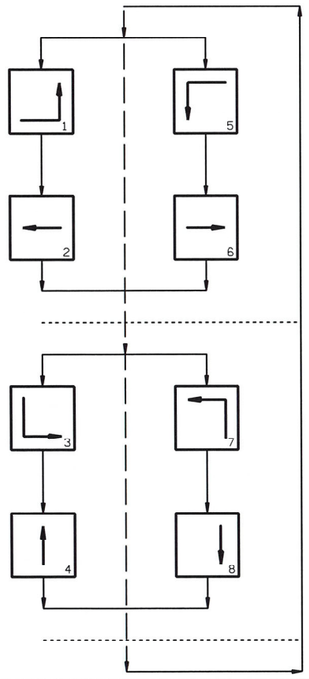
NOTES:
1. TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
2. MAINTAIN EXISTING SIGNAL FOR BOTH STAGES OF CONSTRUCTION.

   SIDEWALKS ARE TO BE CLOSED DURING THIS STAGE OF CONSTRUCTION, REFER TO M.O.T. DETAILS. PEDESTRIAN HEADS ARE TO BE BAGGED DURING THIS STAGE OF CONSTRUCTION.

NOTE TO CONTRACTOR:

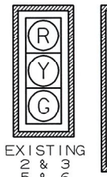
TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES. MAST ARM EXTENSIONS WILL BE NEEDED TO ENSURE PROPER SIGNAL HEAD PLACEMENT FOR SHIFTING TRAFFIC. MAINTAIN PEDESTRIAN CROSSING WHEN POSSIBLE DURING STAGE CONSTRUCTION.

PHASING DIAGRAM

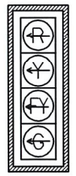


SIGNAL FACES

12" LENSES



EXISTING
2 & 3
5 & 6
8 & 9
11 & 12



EXISTING
1, 4, 7, 10

ONE SECTION
(SOLID SYMBOL)



EXISTING
13 & 14
15 & 16
17 & 18
19 & 20

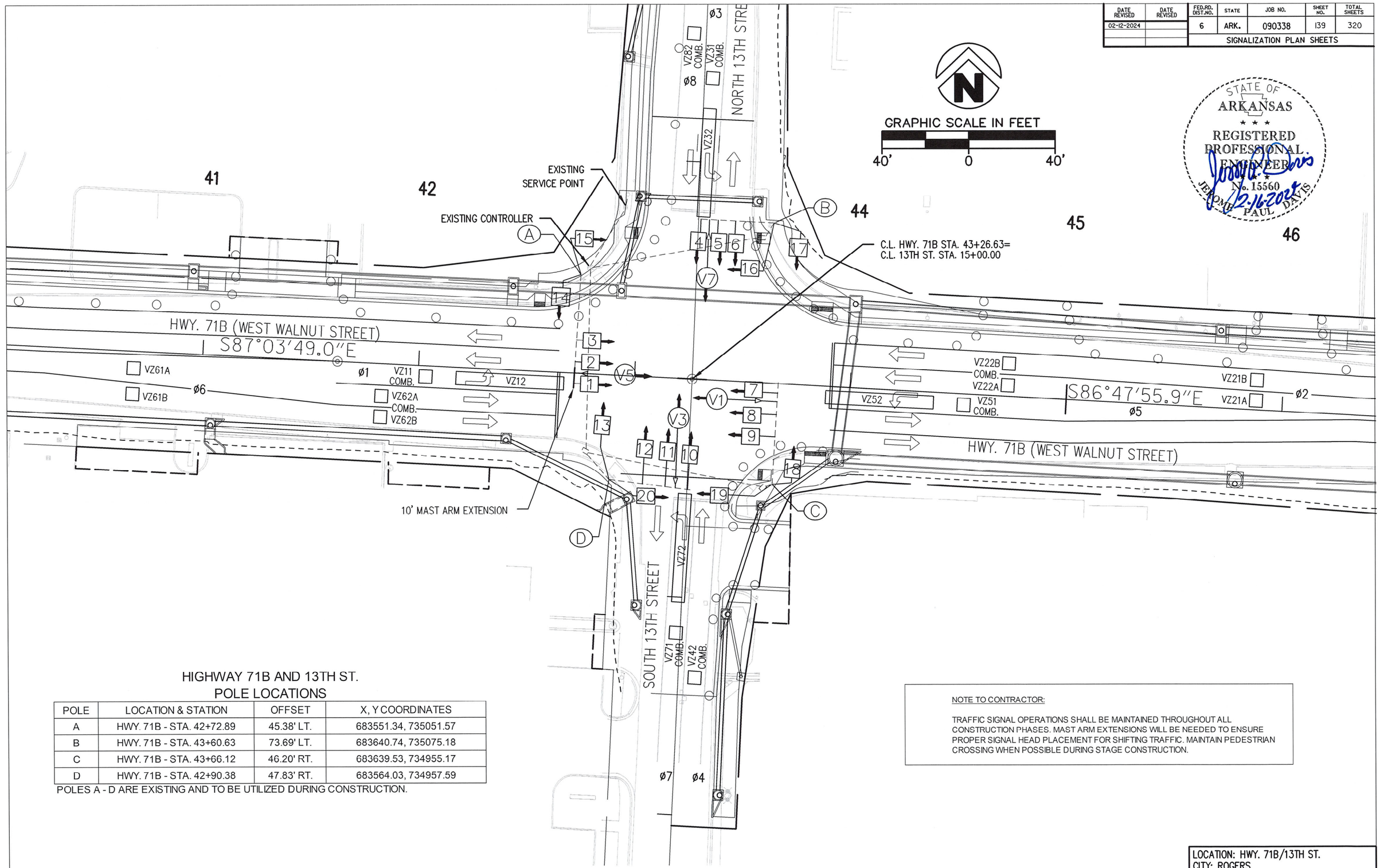
NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
3. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.
4. BAG PEDESTRIAN SIGNAL HEADS WHEN SIDEWALKS AND WHEELCHAIR RAMPS ARE CLOSED.

STAGE I CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn MODEL: MOT 1@ 13th st 60SCALE
PLOTTED: 2/16/2024 15:35 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	139	320
		SIGNALIZATION PLAN SHEETS				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2024

HIGHWAY 71B AND 13TH ST.
POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 42+72.89	45.38' LT.	683551.34, 735051.57
B	HWY. 71B - STA. 43+60.63	73.69' LT.	683640.74, 735075.18
C	HWY. 71B - STA. 43+66.12	46.20' RT.	683639.53, 734955.17
D	HWY. 71B - STA. 42+90.38	47.83' RT.	683564.03, 734957.59

POLES A - D ARE EXISTING AND TO BE UTILIZED DURING CONSTRUCTION.

NOTE TO CONTRACTOR:

TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES. MAST ARM EXTENSIONS WILL BE NEEDED TO ENSURE PROPER SIGNAL HEAD PLACEMENT FOR SHIFTING TRAFFIC. MAINTAIN PEDESTRIAN CROSSING WHEN POSSIBLE DURING STAGE CONSTRUCTION.

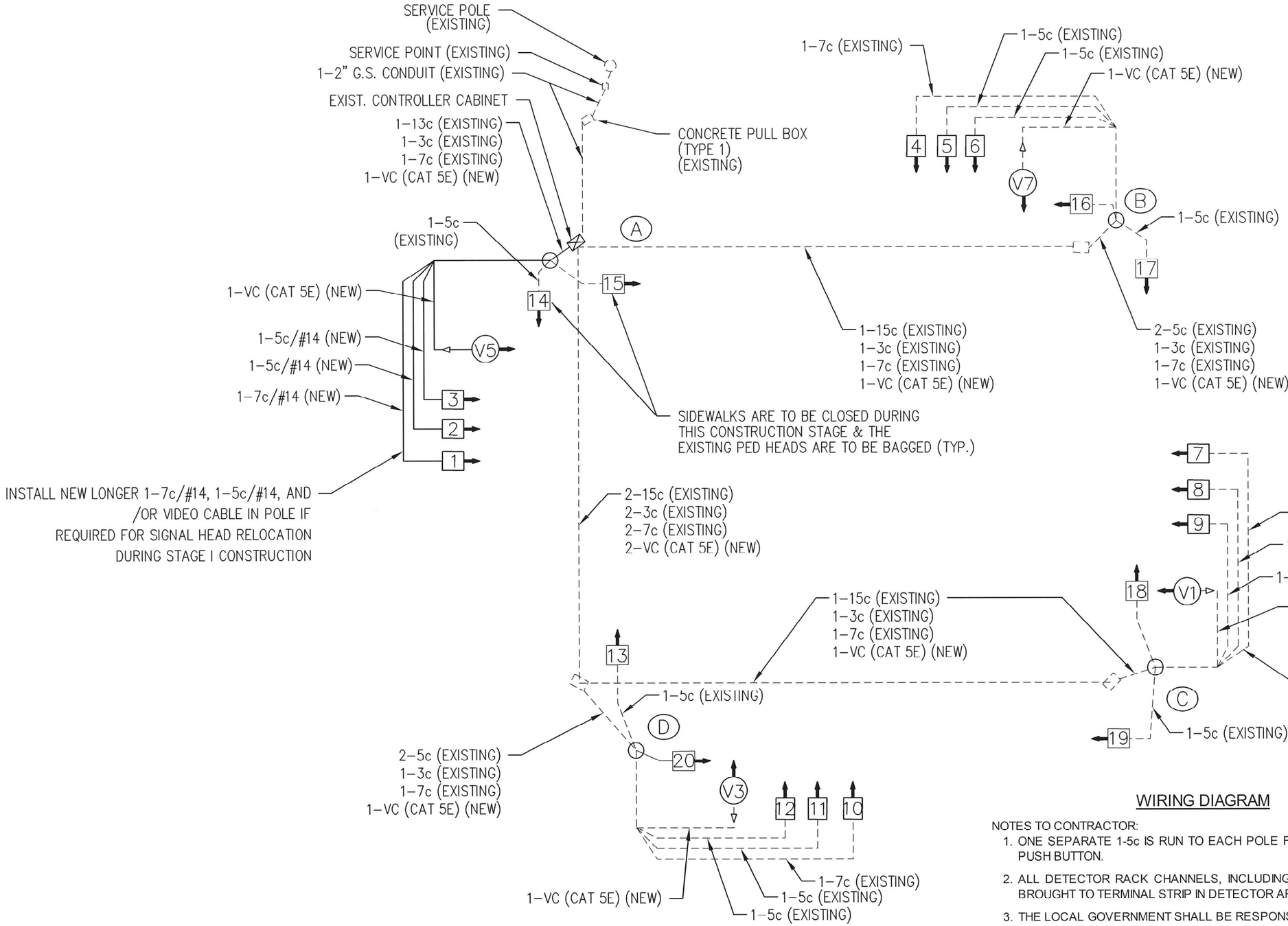
STAGE I CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn
PLOTTED: 2/16/2024 15:35
SCALE: 1:1
MODEL: MOT 1@ 13th st 40SCALE

G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn 2/16/2024 15:35

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	140	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2/16/2024

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ONE SEPARATE 1-5c IS RUN TO EACH POLE FOR THE PEDESTRIAN PUSH BUTTON.
2. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
3. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.
4. SEE GROUNDING ARRAY DETAIL ON SHEET 123.

STAGE I CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jd5296
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PLOTTED: 2/16/2024 15:35
SCALE: 1:1
MODEL: MOT @ 12TH ST WIRING DIAGRAM

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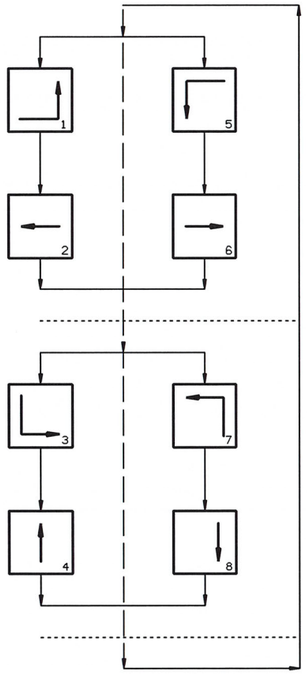
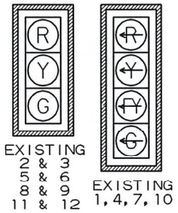
PHASING DIAGRAM



SIGNAL FACES

12" LENSES



EXISTING
2 & 3
5 & 6
8 & 9
11 & 12

EXISTING
1, 4, 7, 10

ONE SECTION
(SOLID SYMBOL)



EXISTING
13 & 14
15 & 16
17 & 18
19 & 20

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
3. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.
4. BAG PEDESTRIAN SIGNAL HEADS WHEN SIDEWALKS AND WHEELCHAIR RAMPS ARE CLOSED.

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	141	320
		SIGNALIZATION PLAN SHEET				



DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND 13TH ST. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #	DETECTOR NUMBERS		
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	74"
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	74"
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V5	74"
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	74"
Vz31	SB LEFT TURN FAR	COMB.			9	V11	3	3		CAMERA V3	74"
Vz32	SB LEFT TURN	LOCAL			10	V3	3			CAMERA V3	74"
Vz41	NB ADVANCE	LOCAL			13	V4	4			CAMERA V7	74"
Vz42	NB NEAR	COMB.			14	V12	4	4		CAMERA V7	74"
Vz51	WB LEFT TURN FAR	COMB.			7	V13	5	5		CAMERA V5	74"
Vz52	WB LEFT TURN	LOCAL			8	V5	5			CAMERA V5	74"
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V1	74"
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	74"
Vz71	NB LEFT TURN FAR	COMB.			15	V15	7	7		CAMERA V7	74"
Vz72	NB LEFT TURN	LOCAL			16	V7	7			CAMERA V7	74"
Vz81 A&B	SB ADVANCE	LOCAL			11	V8	8			CAMERA V3	74"
Vz82 A&B	SB NEAR	COMB.			12	V16	8	8		CAMERA V3	74"
PB2 A&B	13TH ST. N. LEG	PED.				P2	2				
PB4 A&B	HWY. 71B E. LEG	PED.				P4	4				
PB6 A&B	13TH ST. S. LEG	PED.				P6	6				
PB8 A&B	HWY. 71B W. LEG	PED.				P8	8				
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: "AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND 13TH ST. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.		FLASH SEQUENCE
1	R/~~G~~	**/*	R	R	G/~~G~~	**/*	G	**	R	R	R	R	R	R	R	R		R
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R		R
4	R	R	R	R	R	R	R	R	R/~~G~~	**/*	R	R	G/~~G~~	**/*	G	**		R
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**		R
7	R/~~G~~	**/*	G/~~G~~	**/*	R	R	G	**	R	R	R	R	R	R	R	R		R
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R		R
10	R	R	R	R	R	R	R	R	R/~~G~~	**/*	G/~~G~~	**/*	R	R	G	**		R
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**		R
13 & 14	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW		BLK
15 & 16	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW		BLK
17 & 18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW		BLK
19 & 20	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW		BLK

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
NOTE SIDEWALKS ARE TO BE CLOSED DURING THIS STAGE AND PEDESTRIAN SIGNAL HEADS ARE TO BE BAGGED.

STAGE I CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn MODEL: MOT @ 13TH ST charts
PLOTTED: 2/16/2024 15:35 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	142	320
		SIGNALIZATION PLAN SHEET				

STAGE STAGE 1 & 2
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
DIXIELAND RD. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

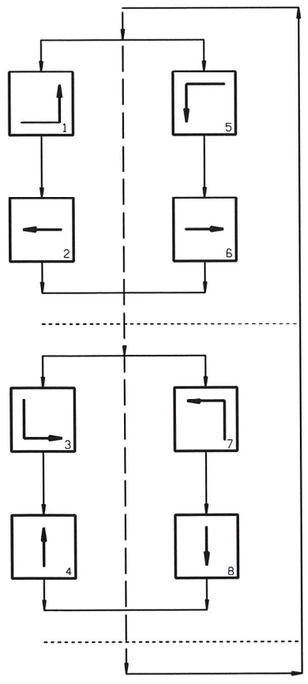
GRAPHIC SCALE IN FEET
60' 0 60'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

VIRTUAL 6'x50' PRESENCE VDZ (TYPICAL)
VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 65' BEHIND STOP LINE
VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 85' BEHIND STOP LINE
VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 200' BEHIND STOP LINE
5' MAST ARM EXTENSION
NORTH 13TH STREET
SOUTH 13TH STREET
HWY. 71B (WEST WALNUT STREET)
VZ61A
VZ61B
VZ62A COMB. VZ62B
VZ11 COMB.
VZ12
VZ81B
VZ81A
VZ82B COMB. VZ82A
VZ31 COMB.
VZ32
VZ22B COMB. VZ22A
VZ21B
VZ21A
VZ52
VZ51 COMB.
VZ71 COMB. VZ72 COMB.
VZ72
VZ41
39 40 41 42 44 45 46 47
A B C D
V1 V3 V5 V7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
ø1 ø2 ø3 ø4 ø5 ø6 ø7 ø8

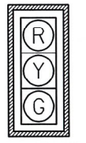
C.L. HWY. 71B STA. 43+26.63=
C.L. 13TH ST. STA. 15+00.00

PHASING DIAGRAM

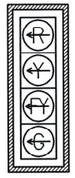


SIGNAL FACES

12" LENSES



EXISTING
2 & 3
5 & 6
8 & 9
11 & 12



EXISTING
1, 4, 7, 10

ONE SECTION (SOLID SYMBOL)



EXISTING
13 & 14
15 & 16
17 & 18
19 & 20

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
3. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.
4. BAG PEDESTRIAN SIGNAL HEADS WHEN SIDEWALKS AND WHEELCHAIR RAMPS ARE CLOSED.

STAGE II:
RELOCATE SIGNAL HEADS 1, 2, 3, 7, 8, AND 9 TO ACCOMMODATE LANE SHIFT FOR HWY. 71B.

NOTES:
1. TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
2. MAINTAIN EXISTING SIGNAL FOR BOTH STAGES OF CONSTRUCTION.

   SIDEWALKS ARE TO BE CLOSED DURING THIS STAGE OF CONSTRUCTION, REFER TO M.O.T. DETAILS. PEDESTRIAN HEADS ARE TO BE BAGGED DURING THIS STAGE OF CONSTRUCTION.

NOTE TO CONTRACTOR:

TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES. MAST ARM EXTENSIONS WILL BE NEEDED TO ENSURE PROPER SIGNAL HEAD PLACEMENT FOR SHIFTING TRAFFIC. MAINTAIN PEDESTRIAN CROSSING WHEN POSSIBLE DURING STAGE CONSTRUCTION.

STAGE II CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jd5296
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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	143	320
		SIGNALIZATION PLAN SHEET				

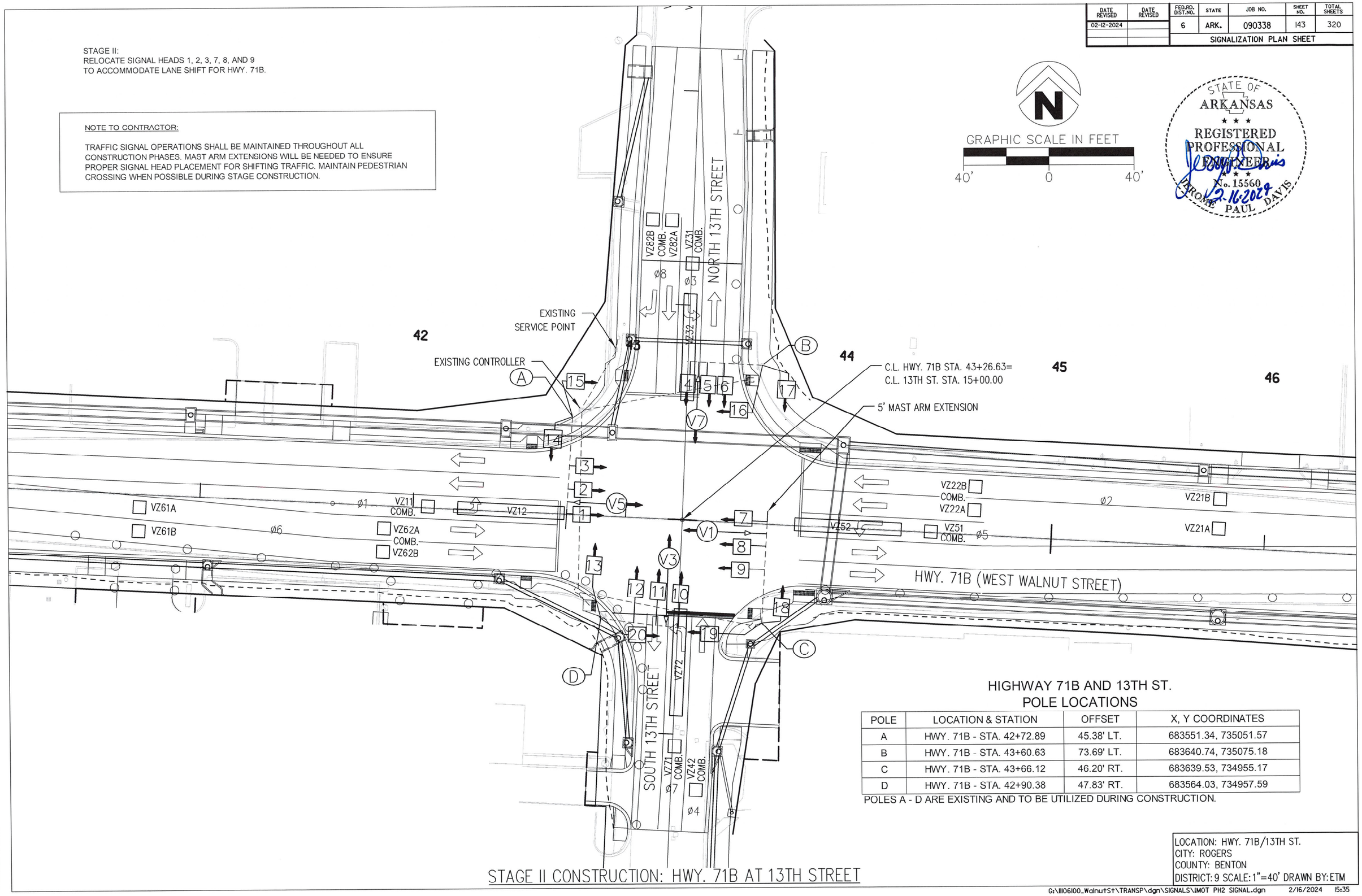
STAGE II:
RELOCATE SIGNAL HEADS 1, 2, 3, 7, 8, AND 9
TO ACCOMMODATE LANE SHIFT FOR HWY. 71B.

NOTE TO CONTRACTOR:

TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES. MAST ARM EXTENSIONS WILL BE NEEDED TO ENSURE PROPER SIGNAL HEAD PLACEMENT FOR SHIFTING TRAFFIC. MAINTAIN PEDESTRIAN CROSSING WHEN POSSIBLE DURING STAGE CONSTRUCTION.

GRAPHIC SCALE IN FEET
40' 0 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2024



STAGE II CONSTRUCTION: HWY. 71B AT 13TH STREET

HIGHWAY 71B AND 13TH ST.
POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 42+72.89	45.38' LT.	683551.34, 735051.57
B	HWY. 71B - STA. 43+60.63	73.69' LT.	683640.74, 735075.18
C	HWY. 71B - STA. 43+66.12	46.20' RT.	683639.53, 734955.17
D	HWY. 71B - STA. 42+90.38	47.83' RT.	683564.03, 734957.59

POLES A - D ARE EXISTING AND TO BE UTILIZED DURING CONSTRUCTION.

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jo5296
DESIGN FILE: G:\110610O_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PH2 SIGNAL.dgn MODEL: 13th st (40scale)
PLOTTED: 2/16/2024 15:35 SCALE: 1:1

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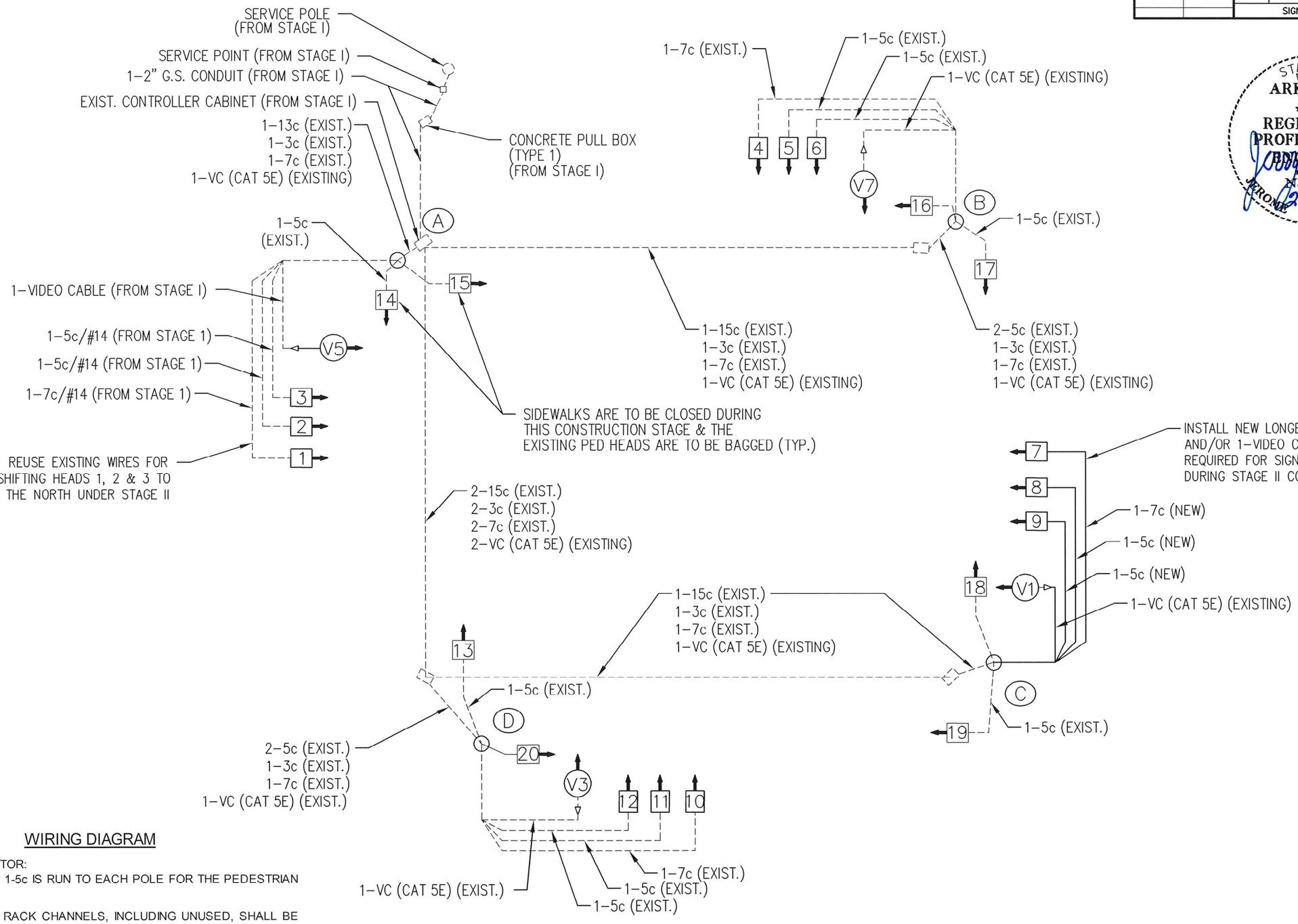
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	144	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
02-16-2024

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ONE SEPARATE 1-5c IS RUN TO EACH POLE FOR THE PEDESTRIAN PUSH BUTTON.
2. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
3. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.
4. SEE GROUNDING ARRAY DETAIL ON SHEET 123.

STAGE II CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
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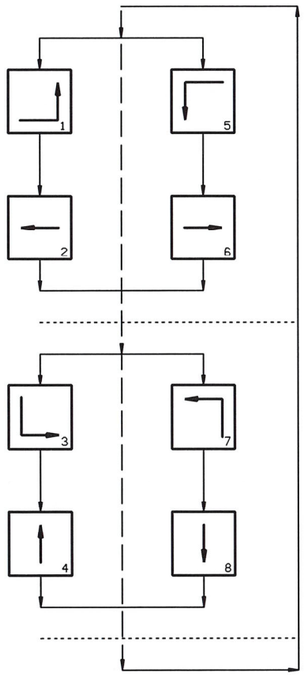
PLOTTED: 2/16/2024 15:35
SCALE: 1:1
MODEL: MOT @ 13TH ST WIRING DIAGRAM

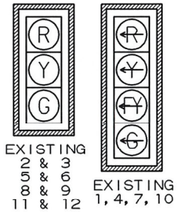
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	145	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



EXISTING
2 & 3
5 & 6
8 & 9
11 & 12

EXISTING
1, 4, 7, 10

ONE SECTION
(SOLID SYMBOL)



EXISTING
13 & 14
15 & 16
17 & 18
19 & 20

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
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4. BAG PEDESTRIAN SIGNAL HEADS WHEN SIDEWALKS AND WHEELCHAIR RAMPS ARE CLOSED.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2.16.2024

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND 13TH ST. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS LOCAL		MASTER SYSTEM DETECTOR NUMBERS	COMMENTS	TUBE LENGTHS
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #			
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	74"
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	74"
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V5	74"
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	74"
Vz31	SB LEFT TURN FAR	COMB.			9	V11	3	3		CAMERA V3	74"
Vz32	SB LEFT TURN	LOCAL			10	V3	3			CAMERA V3	74"
Vz41	NB ADVANCE	LOCAL			13	V4	4			CAMERA V7	74"
Vz42	NB NEAR	COMB.			14	V12	4	4		CAMERA V7	74"
Vz51	WB LEFT TURN FAR	COMB.			7	V13	5	5		CAMERA V5	74"
Vz52	WB LEFT TURN	LOCAL			8	V5	5			CAMERA V5	74"
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V1	74"
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	74"
Vz71	NB LEFT TURN FAR	COMB.			15	V15	7	7		CAMERA V7	74"
Vz72	NB LEFT TURN	LOCAL			16	V7	7			CAMERA V7	74"
Vz81 A&B	SB ADVANCE	LOCAL			11	V8	8			CAMERA V3	74"
Vz82 A&B	SB NEAR	COMB.			12	V16	8	8		CAMERA V3	74"
PB2 A&B	13TH ST. N. LEG	PED.				P2	2				
PB4 A&B	HWY. 71B E. LEG	PED.				P4	4				
PB6 A&B	13TH ST. S. LEG	PED.				P6	6				
PB8 A&B	HWY. 71B W. LEG	PED.				P8	8				
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: "AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND 13TH ST. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQUENCE
1	R/~~G~~	**/*	R	R	G/~~G~~	**/*	G	**	R	R	R	R	R	R	R	R	R
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R/~~G~~	**/*	R	R	G/~~G~~	**/*	G	**	R
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	R/~~G~~	**/*	G/~~G~~	**/*	R	R	G	**	R	R	R	R	R	R	R	R	R
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
10	R	R	R	R	R	R	R	R	R/~~G~~	**/*	G/~~G~~	**/*	R	R	G	**	R
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
13 & 14	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLK
15 & 16	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK
17 & 18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLK
19 & 20	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
NOTE SIDEWALKS ARE TO BE CLOSED DURING THIS STAGE AND PEDESTRIAN SIGNAL HEADS ARE TO BE BAGGED.

STAGE II CONSTRUCTION: HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PH2 SIGNAL.dgn MODEL: MOT @ 13TH ST chart's
PLOTTED: 2/16/2024 15:35 SCALE: 1:1

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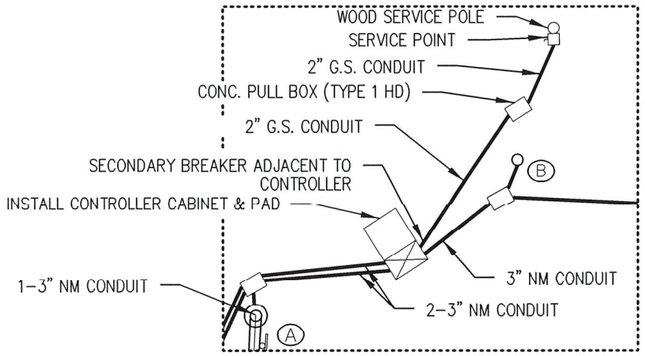
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	146	320
		SIGNALIZATION PLAN SHEET				

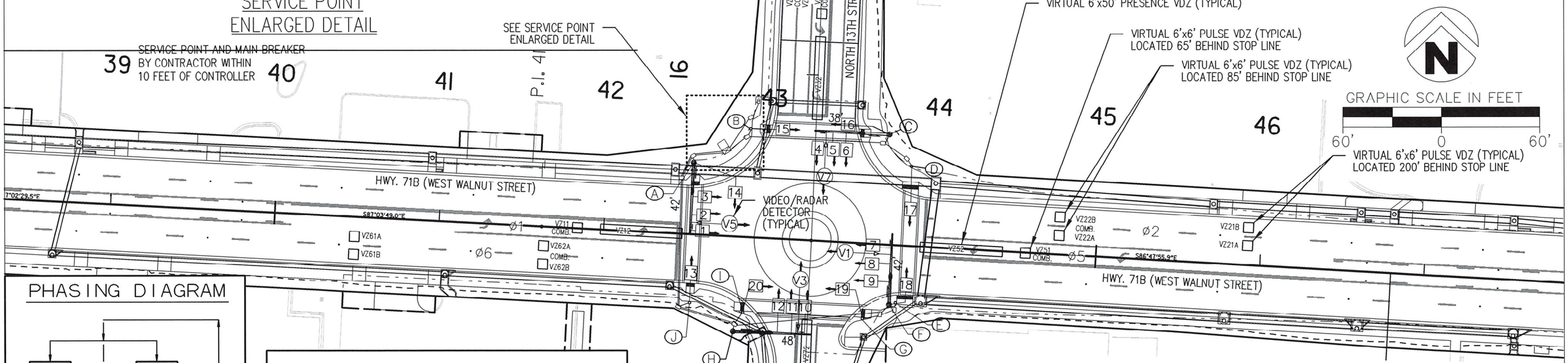


SERVICE POINT ENLARGED DETAIL

DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
13TH ST. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

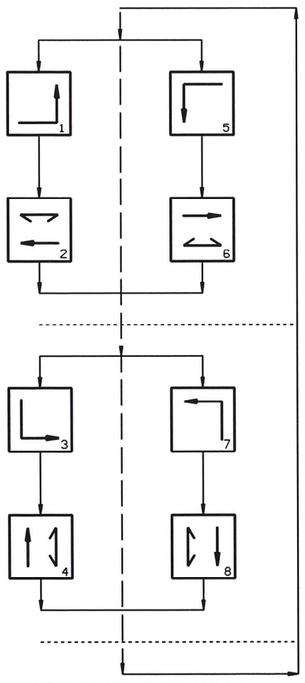
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2.16.2024



N

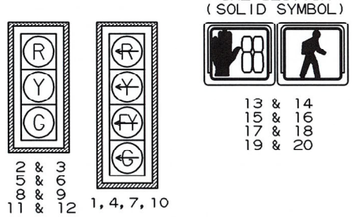
GRAPHIC SCALE IN FEET
60' 0 60'

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



ONE SECTION (SOLID SYMBOL)

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.

HIGHWAY 71B AND 13TH ST. POLE DIMENSIONS

POLE	MAST ARM	* MAST ARM ANGLE	** HAND HOLE	VERT. SHAFT	LUM. ARM	* LUM. ANGLE
A	42'	180°	180°	35'	15'	180°
B	N/A	N/A	N/A	10'	N/A	N/A
C	44'	270°	180°	35'	15'	270°
D	N/A	N/A	N/A	10'	N/A	N/A
E	N/A	N/A	N/A	10'	N/A	N/A
F	42'	0°	180°	35'	15'	0°
G	N/A	N/A	N/A	10'	N/A	N/A
H	48'	90°	180°	35'	15'	90°
I	N/A	N/A	N/A	10'	N/A	N/A
J	N/A	N/A	N/A	10'	N/A	N/A

* MAST ARM AND LUMINAIRE ARM ANGLE MEASURED FROM PLAN NORTH = 0°, CLOCKWISE ROTATION.
** HAND HOLE LOCATION MEASURED CLOCKWISE FROM MAST ARM.

HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\ISIGNAL PLAN THIRTEENTH STREET.dgn MODEL: SIGNALIZATION PLAN SHEET 60SCALE
PLOTTED: 2/16/2024 15:35 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	147	320
		SIGNALIZATION PLAN SHEET				

CONTROLLER CABINET LOCATION

LOCATION & STATION	* OFFSET	* X, Y COORDINATES
HWY. 71B - STA. 42+72.52	51.54' LT.	683551.28, 735057.75

* CENTER OF CABINET

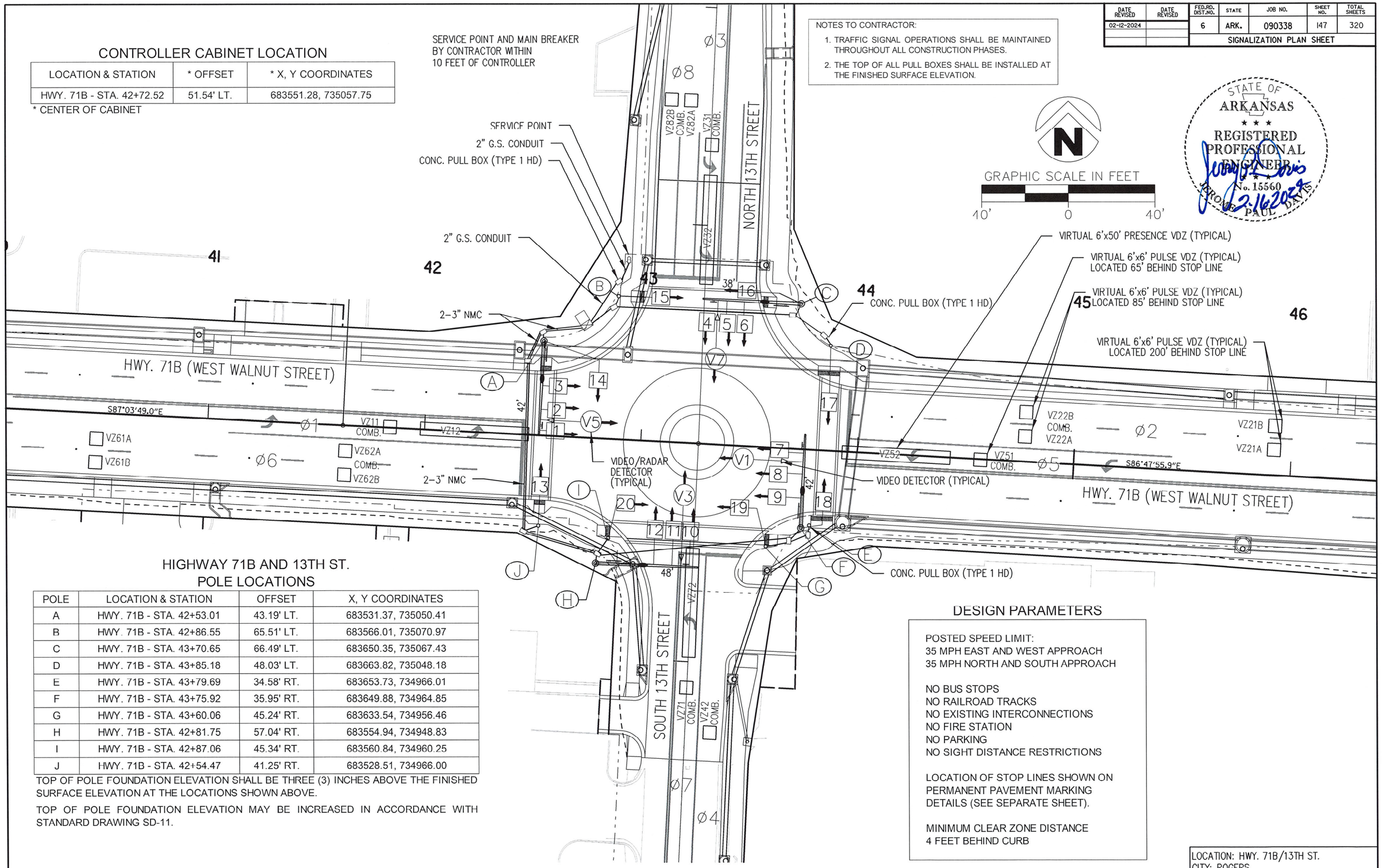
SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER

NOTES TO CONTRACTOR:

1. TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
2. THE TOP OF ALL PULL BOXES SHALL BE INSTALLED AT THE FINISHED SURFACE ELEVATION.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

GRAPHIC SCALE IN FEET
40' 0 40'



HIGHWAY 71B AND 13TH ST. POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 42+53.01	43.19' LT.	683531.37, 735050.41
B	HWY. 71B - STA. 42+86.55	65.51' LT.	683566.01, 735070.97
C	HWY. 71B - STA. 43+70.65	66.49' LT.	683650.35, 735067.43
D	HWY. 71B - STA. 43+85.18	48.03' LT.	683663.82, 735048.18
E	HWY. 71B - STA. 43+79.69	34.58' RT.	683653.73, 734966.01
F	HWY. 71B - STA. 43+75.92	35.95' RT.	683649.88, 734964.85
G	HWY. 71B - STA. 43+60.06	45.24' RT.	683633.54, 734956.46
H	HWY. 71B - STA. 42+81.75	57.04' RT.	683554.94, 734948.83
I	HWY. 71B - STA. 42+87.06	45.34' RT.	683560.84, 734960.25
J	HWY. 71B - STA. 42+54.47	41.25' RT.	683528.51, 734966.00

TOP OF POLE FOUNDATION ELEVATION SHALL BE THREE (3) INCHES ABOVE THE FINISHED SURFACE ELEVATION AT THE LOCATIONS SHOWN ABOVE.

TOP OF POLE FOUNDATION ELEVATION MAY BE INCREASED IN ACCORDANCE WITH STANDARD DRAWING SD-11.

DESIGN PARAMETERS

POSTED SPEED LIMIT:
35 MPH EAST AND WEST APPROACH
35 MPH NORTH AND SOUTH APPROACH

NO BUS STOPS
NO RAILROAD TRACKS
NO EXISTING INTERCONNECTIONS
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

LOCATION OF STOP LINES SHOWN ON PERMANENT PAVEMENT MARKING DETAILS (SEE SEPARATE SHEET).

MINIMUM CLEAR ZONE DISTANCE
4 FEET BEHIND CURB

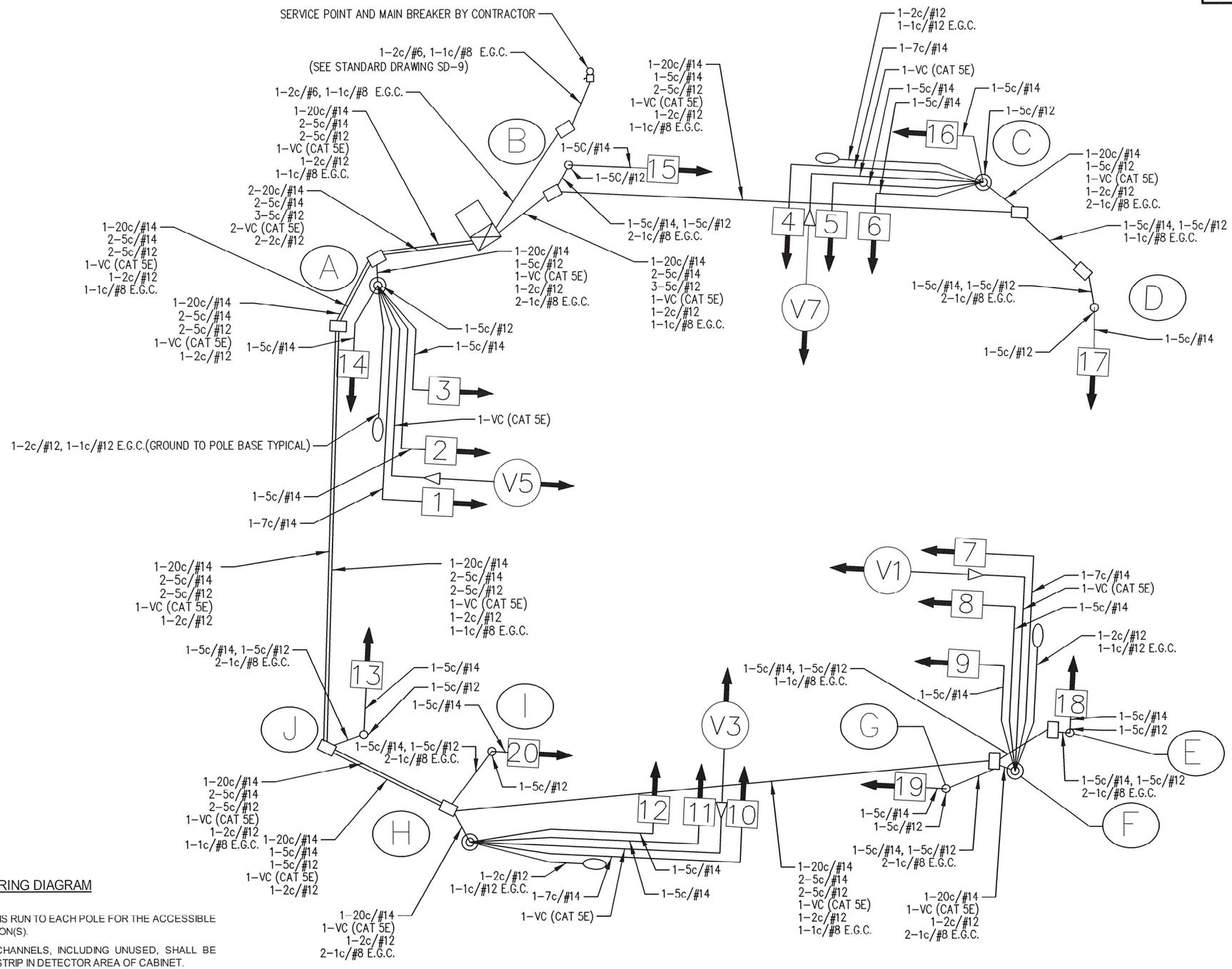
HWY. 71B AT 13TH STREET

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN THIRTEENTH STREET.dgn MODEL: SIGNALIZATION PLAN SHEET 40SCALE
PLOTTED: 2/16/2024 15:35 SCALE: 1:1

G:\111106100_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN THIRTEENTH STREET.dgn 2/16/2024 15:35

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	148	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ONE SEPARATE 1-5c/#12 IS RUN TO EACH POLE FOR THE ACCESSIBLE PEDESTRIAN PUSH BUTTON(S).
2. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
3. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.
4. SEE GROUNDING ARRAY DETAIL ON SHEET 123.

HWY. 71B AT 13TH STREET

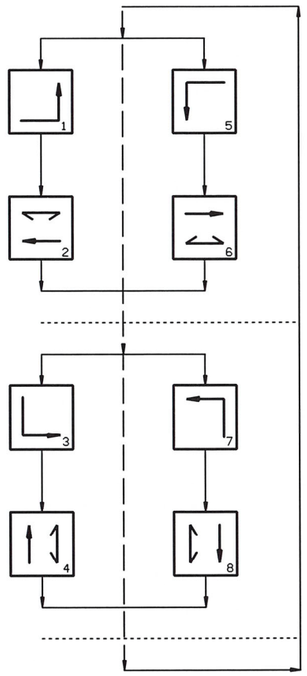
NTS

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN THIRTEENTH STREET.dgn MODEL: WIRING DIAGRAM
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

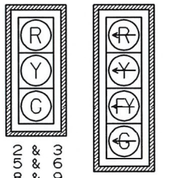
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	149	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



2 & 3
5 & 6
8 & 9
11 & 12

1, 4, 7, 10

ONE SECTION
(SOLID SYMBOL)



13 & 14
15 & 16
17 & 18
19 & 20

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND 13TH ST. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #	DETECTOR NUMBERS		
Vz11	EB LEFT TURN FAR	COMB.				V9	1	1		CAMERA V1	
Vz12	EB LEFT TURN	LOCAL				V1	1			CAMERA V1	
Vz21 A&B	WB ADVANCE	LOCAL				V2	2			CAMERA V5	
Vz22 A&B	WB NEAR	COMB.				V10	2	2		CAMERA V5	
Vz31	SB LEFT TURN FAR	COMB.				V11	3	3		CAMERA V3	
Vz32	SB LEFT TURN	LOCAL				V3	3			CAMERA V3	
Vz41	NB ADVANCE	LOCAL				V4	4			CAMERA V7	
Vz42	NB NEAR	COMB.				V12	4	4		CAMERA V7	
Vz51	WB LEFT TURN FAR	COMB.				V13	5	5		CAMERA V5	
Vz52	WB LEFT TURN	LOCAL				V5	5			CAMERA V5	
Vz61 A&B	EB ADVANCE	LOCAL				V6	6			CAMERA V1	
Vz62 A&B	EB NEAR	COMB.				V14	6	6		CAMERA V1	
Vz71	NB LEFT TURN FAR	COMB.				V15	7	7		CAMERA V7	
Vz72	NB LEFT TURN	LOCAL				V7	7			CAMERA V7	
Vz81 A&B	SB ADVANCE	LOCAL				V8	8			CAMERA V3	
Vz82 A&B	SB NEAR	COMB.				V16	8	8		CAMERA V3	
PB2 A&B	13TH ST. N. LEG	PED.				P2	2				
PB4 A&B	HWY. 71B E. LEG	PED.				P4	4				
PB6 A&B	13TH ST. S. LEG	PED.				P6	6				
PB8 A&B	HWY. 71B W. LEG	PED.				P8	8				
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2
HYBRID VIDEO/RADAR DETECTORS ARE MAST ARM MOUNTED.

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND 13TH ST. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQUENCE
1	←G	*	←FY	***	←G	*	←FY	***	R	R	R	R	R	R	←R		←R
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
4	←R	←R	←R	←R	←R	←R	←R	←R	←G	*	←FY	***	←G	*	←FY	***	←R
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	←G	*	←G	*	←FY	***	←FY	***	R	R	R	R	R	R	←R		←R
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
10	←R	←R	←R	←R	←R	←R	←R	←R	←G	*	←G	*	←FY	***	←FY	***	←R
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
13 & 14	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLK
15 & 16	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK
17 & 18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLK
19 & 20	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

LOCATION: HWY. 71B/13TH ST.
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\ISIGNAL PLAN THIRTEENTH STREET.dgn MODEL: SIGNALIZATION CHARTS
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	150	320
		TRAFFIC SIGNAL QUANTITIES - 8TH ST.				

STAGE 1 TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)	1	EACH
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	1	EACH
SP	CELLULAR MODEM	1	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	8	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	4	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	1528	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	764	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	67	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	67	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	63	LIN. FT.
709	GALVANIZED STEEL CONDUIT (3")	60	LIN. FT.
710	NON-METALLIC CONDUIT (2")	20	LIN. FT.
710	NON-METALLIC CONDUIT (3")	12	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 1 HD)	1	EACH
SS & 713	SPAN WIRE ASSEMBLY	1	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	0.20	LUMP SUM
716	TREATED WOOD POLE (CLASS 2, 45')	5	EACH
SP & 733	VIDEO DETECTOR (IP)	4	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	837	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	1	EACH

STAGE 1
INSTALL ALL STAGE 1 TRAFFIC SGNAL EQUIPMENT AND REMOVE ALL EXISTING TRAFFIC SIGNAL EQUIPMENT.
MAINTAIN THIS TRAFFIC SIGNAL CONFIGURATION AS SHOWN ON THE STAGE 1 TRAFFIC SIGNAL PLANS.
(REFER TO MAINTENANCE OF TRAFFIC DETAILS.)

STAGE 2 TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	RELOCATION OF TRAFFIC SIGNAL HEAD	12	EACH
SP	VIDEO DETECTOR ROTATION	4	EACH

STAGE 2
ROTATE ALL VIDEO DETECTORS AND RELOCATE ALL TRAFFIC SIGNAL HEADS TO ACCOMMODATE THE LANE SHIFTS AT HWY.
MAINTAIN THIS TRAFFIC SIGNAL CONFIGURATION AS SHOWN ON THE STAGE 2 TRAFFIC SIGNAL PLANS.
(REFER TO MAINTENANCE OF TRAFFIC DETAILS.)

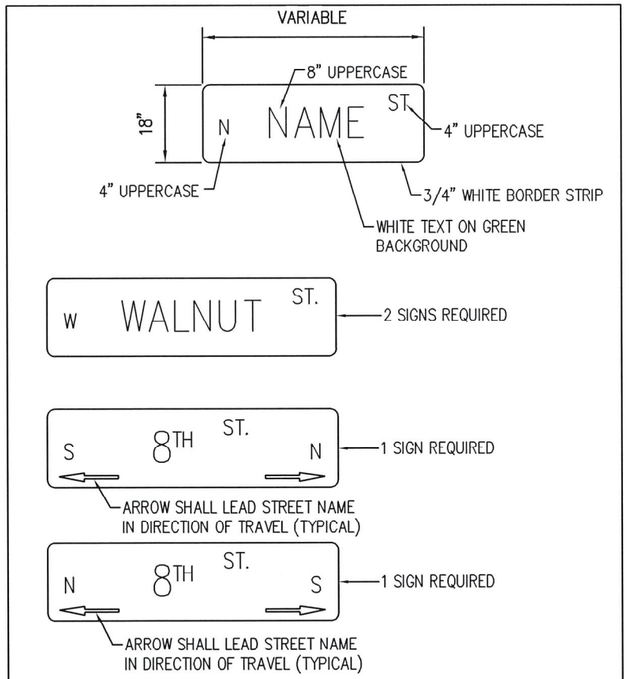
PERMANENT TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2, E-NET (8 PHASES)	1	EACH
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	1	EACH
SP	CELLULAR MODEM	1	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	16	EACH
SP & 707	CENTRAL CONTROL UNIT	1	EACH
SP & 707	POLE MOUNTED ASSEMBLY	8	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	8	EACH
708	TRAFFIC SIGNAL CABLE (5C/12 A.W.G.)	931	LIN. FT.
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	1646	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	688	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	645	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	220	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	67	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	896	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	54	LIN. FT.
710	NON-METALLIC CONDUIT (2")	26	LIN. FT.
710	NON-METALLIC CONDUIT (3")	482	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 2)	8	EACH
SS & 711	CONCRETE PULL BOX (TYPE 1 HD)	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (50')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (52')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (54')	2	EACH
SP	LED LUMINAIRE ASSEMBLY	4	EACH
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	1	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	0.20	LUMP SUM
SP	18" STREET NAME SIGN	4	EACH
SP & 733	HYBRID VIDEO/RADAR DETECTOR	4	EACH
SP & 733	VIDEO CABLE (EXTERIOR CAT 5E)	1023	LIN. FT.
SP & 733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	CENTRAL CONTROL UNIT (8 CHANNEL)	1	EACH

PERMANENT TRAFFIC SIGNAL:
THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL REMAIN IN OPERATION UNTIL PERMANENT TRAFFIC SIGNAL IS COMPLETED AND OPERATIONAL. INSTALL THE PERMANENT TRAFFIC SIGNAL AND REMOVE ALL TEMPORARY TRAFFIC SIGNAL COMPONENTS.
(REFER TO PERMANENT TRAFFIC SIGNAL PLANS.)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2024

OVERHEAD STREET NAME MARKER STANDARD MAST ARM MOUNTED



NOTES:
1. REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES. APPLICATION OF SHEETING IS CAUSE FOR REJECTION OF MATERIALS DUE TO WORKMANSHIP.

2. ALUMINUM SIGN BLANK SHALL BE ALLOY 6061–T6 OR 5052–H38. THE ALUMINUM SIGN SHALL ALSO BE ALODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN WITH 1.5" CORNER RADII. PRIOR TO FABRICATION OF THE SIGNS, THE LAYOUT SHALL FIRST BE APPROVED BY AN AGENT OF THE CITY.

3. WHEN CROSSROAD HAS TWO NAMES, THE SIGN FOR THE CROSSROAD TO THE LEFT MAY BE INSTALLED ON THE BACKSIDE OF THE MAST ARM OF THE NEARSIDE LEFT POLE. SEE STD. DRAWING SHEET FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.

4. THE C 2000 STANDARD ALPHABET SHALL BE USED FOR ALL LETTERS

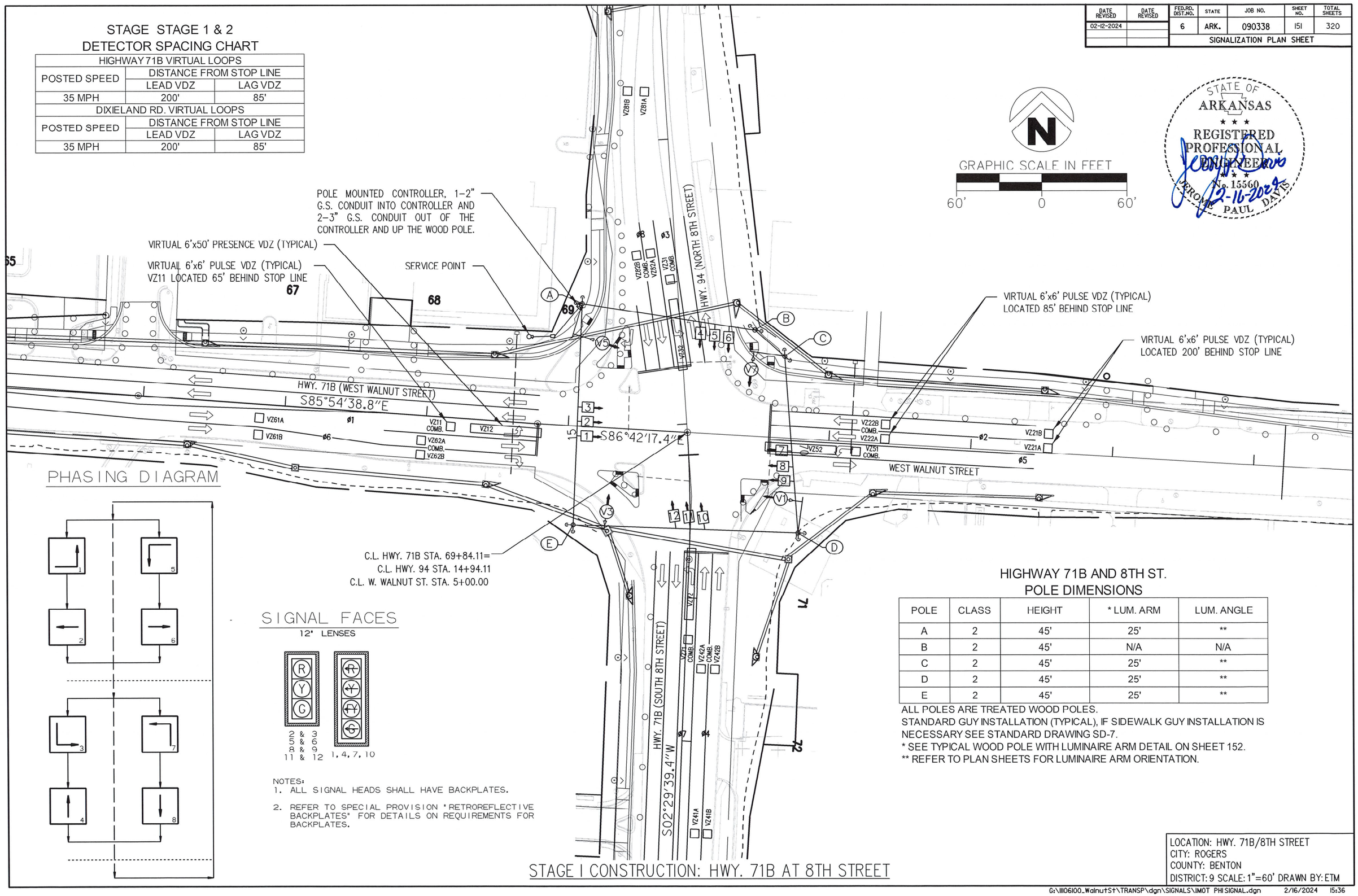
LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\SIGNAL PLAN 8TH STREET.dgn MODEL: TRAFFIC SIGNAL QUANTITIES
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	151	320
		SIGNALIZATION PLAN SHEET				

STAGE STAGE 1 & 2
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
DIXIELAND RD. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'



PHASING DIAGRAM

SIGNAL FACES
12" LENSES

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

HIGHWAY 71B AND 8TH ST.
POLE DIMENSIONS

POLE	CLASS	HEIGHT	* LUM. ARM	LUM. ANGLE
A	2	45'	25'	**
B	2	45'	N/A	N/A
C	2	45'	25'	**
D	2	45'	25'	**
E	2	45'	25'	**

ALL POLES ARE TREATED WOOD POLES.
STANDARD GUY INSTALLATION (TYPICAL), IF SIDEWALK GUY INSTALLATION IS NECESSARY SEE STANDARD DRAWING SD-7.
* SEE TYPICAL WOOD POLE WITH LUMINAIRE ARM DETAIL ON SHEET 152.
** REFER TO PLAN SHEETS FOR LUMINAIRE ARM ORIENTATION.

GRAPHIC SCALE IN FEET
60' 0 60'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2023

STAGE I CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

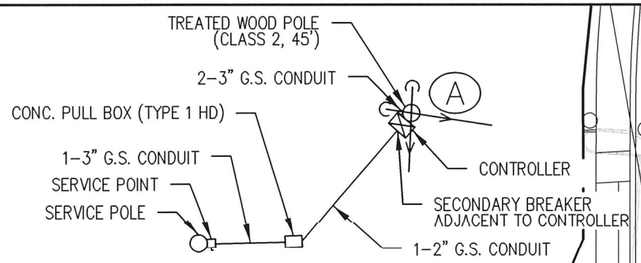
USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IM0T PHISIGNAL.dgn MODEL: M0T I@ 8TH ST 60SCALE
PLOTTED: 2/16/2024 15:36 SCALE: 1=1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	152	320
		SIGNALIZATION PLAN SHEET				

NOTE TO CONTRACTOR:
TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.

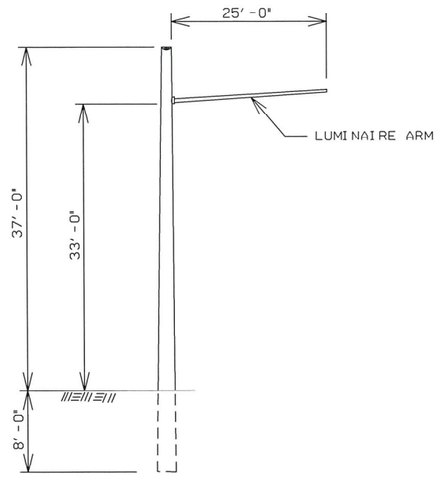






SERVICE POINT ENLARGED DETAIL

SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER



TYPICAL WOOD POLE WITH LUMINAIRE ARM

NOTE TO CONTRACTOR:
LUMINAIRE ARMS (OR APPROVED MOUNTING HARDWARE) SHALL BE USED TO MOUNT VIDEO DETECTORS.
LUMINAIRE ARM SHALL NOT INCLUDE LUMINAIRE ASSEMBLIES.
THE COST FOR LUMINAIRE ARMS, MOUNTING, AND ALL HARDWARE IS INCLUDED IN PRICE BID FOR ITEM 716 TREATED WOOD POLE.

C.L. HWY. 71B STA. 69+84.11=
C.L. HWY. 94 STA. 14+94.11
C.L. W. WALNUT ST. STA. 5+00.00

HWY. 71B (WEST WALNUT STREET)
S85°54'38.8"E

HWY. 94 (NORTH 8TH STREET)
S86°42'17.4"E

WEST WALNUT STREET

HWY. 71B (SOUTH 8TH STREET)

HIGHWAY 71B AND 8TH ST. POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 16+37.93	85.62' LT.	686181.53, 734935.33
B	WALNUT ST. - STA. 5+43.56	74.06' LT.	686303.15, 734916.74
C	WALNUT ST. - STA. 5+65.70	57.00' LT.	686324.27, 734898.44
D	WALNUT ST. - STA. 5+81.72	65.67' RT.	686333.21, 734775.06
E	HWY. 71B - STA. 69+07.26	68.98' RT.	686174.71, 734780.86

STAGE I CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn MODEL: MOT 1@ 8TH ST 40SCALE
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

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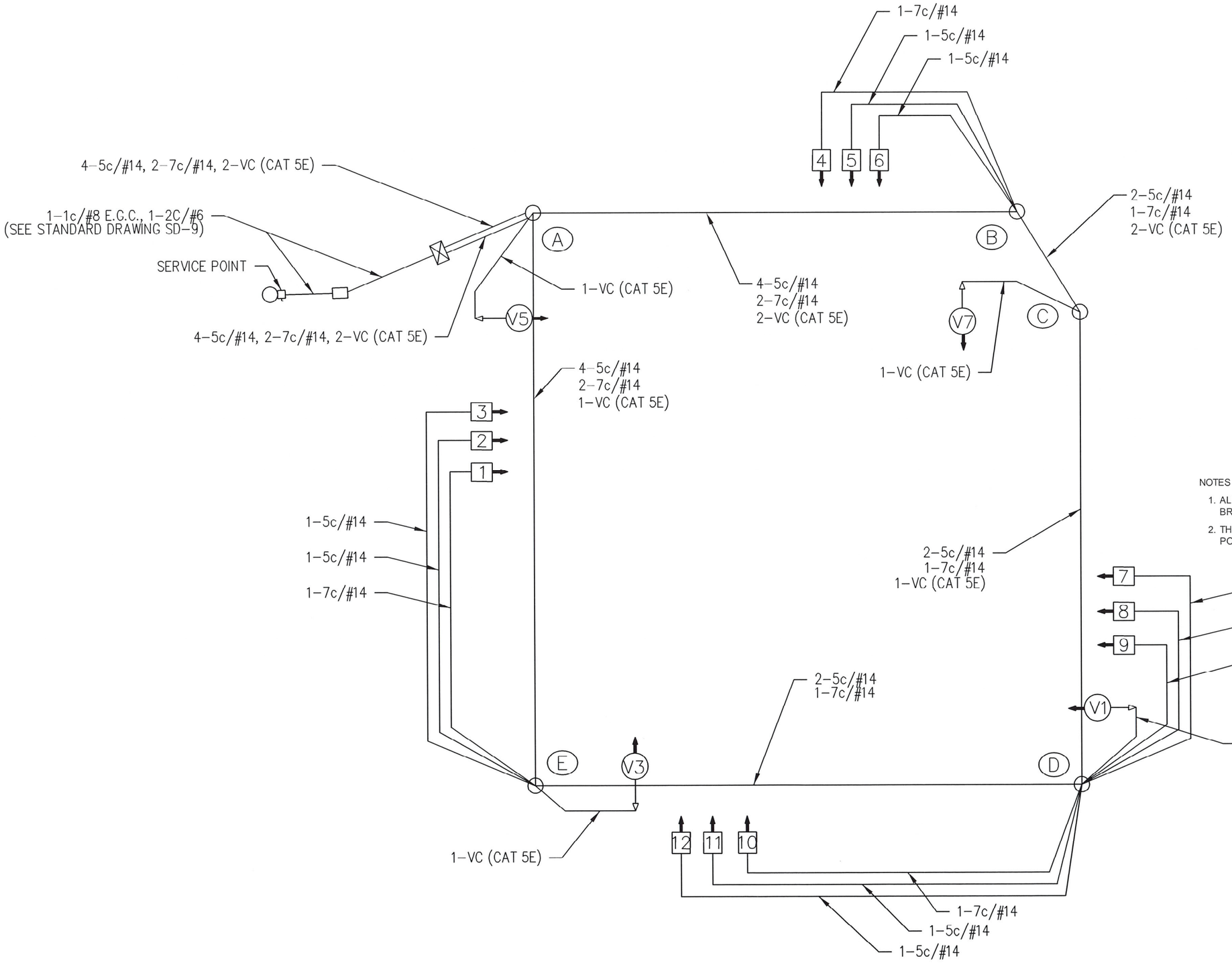
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	153	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2023

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
2. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.

STAGE I CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jo5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PHI SIGNAL.dgn
PLOTTED: 2/16/2024 15:36
SCALE: lsl
MODEL: MOT @ 8TH ST WIRING DIAGRAM

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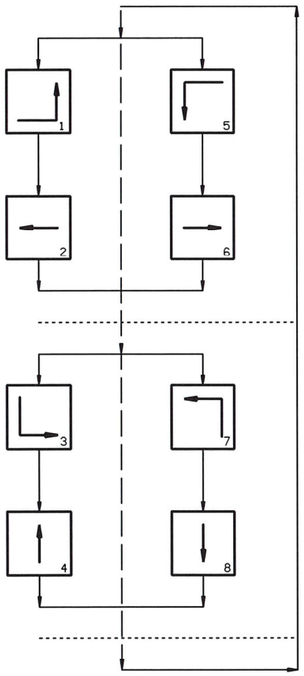
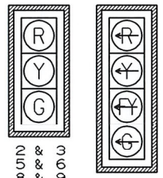
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	154	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



2 & 3
5 & 6
8 & 9
11 & 12

1, 4, 7, 10

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2024

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND 8TH ST. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM DETECTOR NUMBERS		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #			
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	23"
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	23"
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V5	23"
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	23"
Vz31	SB LEFT TURN FAR	COMB.			9	V11	3	3		CAMERA V3	23"
Vz32	SB LEFT TURN	LOCAL			10	V3	3			CAMERA V3	23"
Vz41 A&B	NB ADVANCE	LOCAL			13	V4	4			CAMERA V7	23"
Vz42 A&B	NB NEAR	COMB.			14	V12	4	4		CAMERA V7	23"
Vz51	WB LEFT TURN FAR	COMB.			7	V13	5	5		CAMERA V5	23"
Vz52	WB LEFT TURN	LOCAL			8	V5	5			CAMERA V5	23"
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V1	23"
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	23"
Vz71	NB LEFT TURN FAR	COMB.			15	V15	7	7		CAMERA V7	23"
Vz72	NB LEFT TURN	LOCAL			16	V7	7			CAMERA V7	23"
Vz81 A&B	SB ADVANCE	LOCAL			11	V8	8			CAMERA V3	23"
Vz82 A&B	SB NEAR	COMB.			12	V16	8	8		CAMERA V3	23"
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: "AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND 8TH ST.																FLASH SEQUENCE
	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	
1	~~G~~	*	~~FY~~	***	~~G~~	*	~~FY~~	***	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
4	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~G~~	*	~~FY~~	***	~~G~~	*	~~FY~~	***	~~R~~
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	~~G~~	*	~~G~~	*	~~FY~~	***	~~FY~~	***	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
10	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~G~~	*	~~G~~	*	~~FY~~	***	~~FY~~	***	~~R~~
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

STAGE I CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\IMOT PHISIGNAL.dgn MODEL: MOT @ 8TH ST charts
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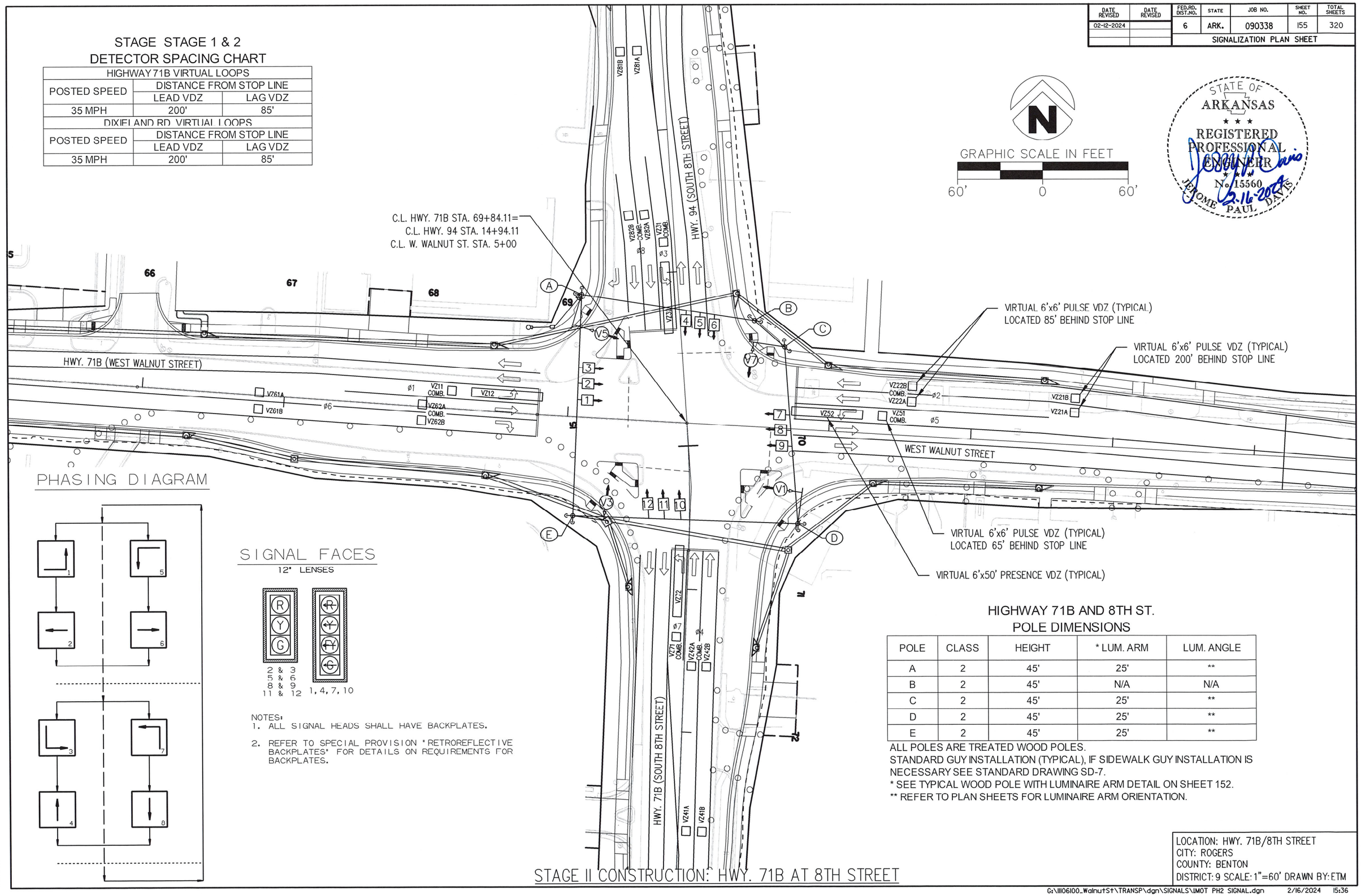
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	155	320
		SIGNALIZATION PLAN SHEET				

STAGE STAGE 1 & 2
DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
DIXIELAND RD VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'



GRAPHIC SCALE IN FEET
60' 0 60'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

PHASING DIAGRAM

SIGNAL FACES
12" LENSES

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

HIGHWAY 71B AND 8TH ST.
POLE DIMENSIONS

POLE	CLASS	HEIGHT	* LUM. ARM	LUM. ANGLE
A	2	45'	25'	**
B	2	45'	N/A	N/A
C	2	45'	25'	**
D	2	45'	25'	**
E	2	45'	25'	**

ALL POLES ARE TREATED WOOD POLES.
STANDARD GUY INSTALLATION (TYPICAL), IF SIDEWALK GUY INSTALLATION IS NECESSARY SEE STANDARD DRAWING SD-7.
* SEE TYPICAL WOOD POLE WITH LUMINAIRE ARM DETAIL ON SHEET 152.
** REFER TO PLAN SHEETS FOR LUMINAIRE ARM ORIENTATION.

STAGE II CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jd5296
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PLOTTED: 2/16/2024 15:36 SCALE: 1:1

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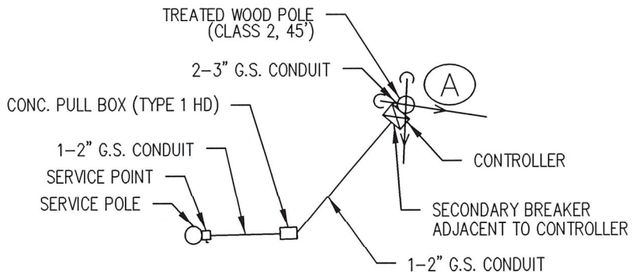
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	156	320
		SIGNALIZATION PLAN SHEET				



SERVICE POINT ENLARGED DETAIL

SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER

GRAPHIC SCALE IN FEET

40' 0 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

67 68 69

SERVICE POINT

HWY. 94 (SOUTH 8TH STREET)

VZ82B COMB. VZ82A ø8

VZ31 COMB. ø3

VZ33

VZ61A VZ61B ø6

ø1 VZ11 COMB. VZ12

VZ62A COMB. VZ62B

VZ22B COMB. VZ22A ø2

VZ21B VZ21A

VZ52 VZ51 COMB. ø5

WEST WALNUT STREET

15 70 71

STAGE II:
ROTATE ALL VIDEO DETECTORS AND RELOCATE ALL SIGNAL HEADS TO ACCOMMODATE LANE SHIFT FOR HWY. 71B AND 8TH STREET.

NOTE TO CONTRACTOR:
TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.

VZ72 ø7 VZ71 COMB. ø4 VZ42A COMB. VZ42B

C.L. HWY. 71B STA. 69+84.11=
C.L. HWY. 94 STA. 14+94.11
C.L. W. WALNUT ST. STA. 5+00

HIGHWAY 71B AND 8TH ST. POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 16+37.93	85.62' LT.	686181.53, 734935.33
B	WALNUT ST. - STA. 5+43.56	74.06' LT.	686303.15, 734916.74
C	WALNUT ST. - STA. 5+65.70	57.00' LT.	686324.27, 734898.44
D	WALNUT ST. - STA. 5+81.72	65.67' RT.	686333.21, 734775.06
E	HWY. 71B - STA. 69+07.26	68.98' RT.	686174.71, 734780.86

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

STAGE II CONSTRUCTION: HWY. 71B AT 8TH STREET

USER: jo5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PH2 SIGNAL.dgn MODEL: 8th st (40scale)
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

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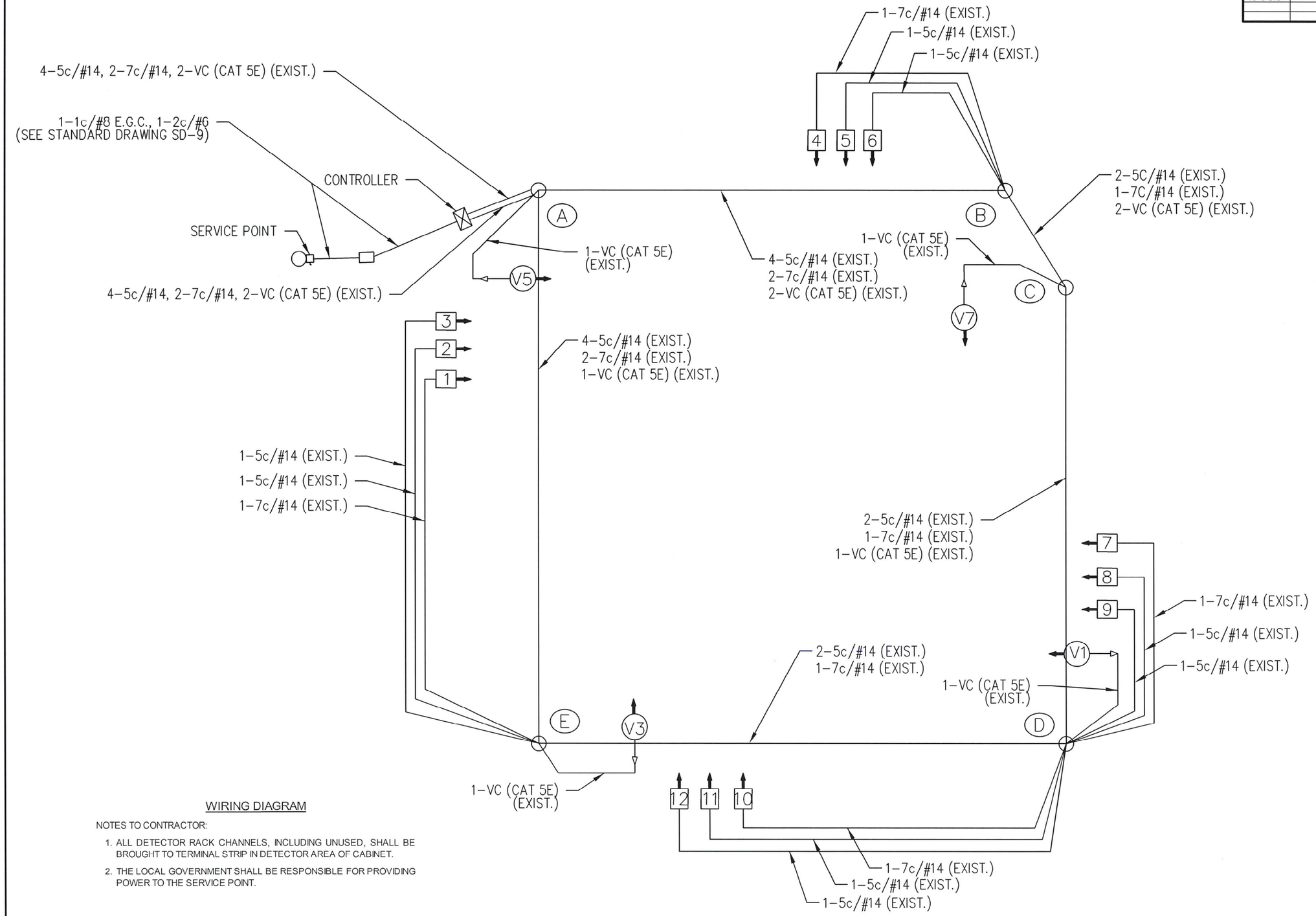
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	157	320
		SIGNALIZATION PLAN SHEET				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-20-2024

WIRING DIAGRAM

NOTES TO CONTRACTOR:

1. ALL DETECTOR RACK CHANNELS, INCLUDING UNUSED, SHALL BE BROUGHT TO TERMINAL STRIP IN DETECTOR AREA OF CABINET.
2. THE LOCAL GOVERNMENT SHALL BE RESPONSIBLE FOR PROVIDING POWER TO THE SERVICE POINT.

STAGE II CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: cp5181
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PLOTTED: 2/20/2024 16:06 SCALE: 1:1

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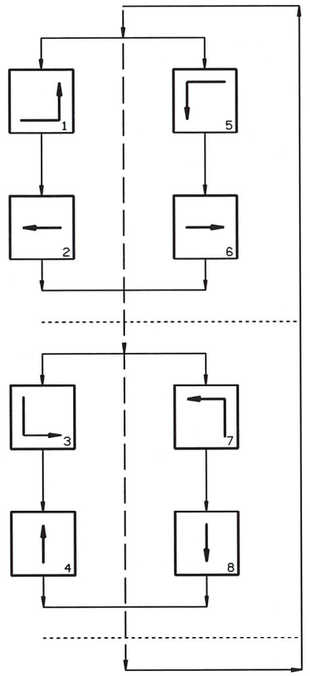
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	158	320
		SIGNALIZATION PLAN SHEET				

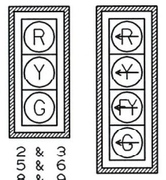
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



2 & 3
5 & 6
8 & 9
11 & 12

1, 4, 7, 10

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.

DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND 8TH ST. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #	DETECTOR NUMBERS		
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	23"
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	23"
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V5	23"
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	23"
Vz31	SB LEFT TURN FAR	COMB.			9	V11	3	3		CAMERA V3	23"
Vz32	SB LEFT TURN	LOCAL			10	V3	3			CAMERA V3	23"
Vz41 A&B	NB ADVANCE	LOCAL			13	V4	4			CAMERA V7	23"
Vz42 A&B	NB NEAR	COMB.			14	V12	4	4		CAMERA V7	23"
Vz51	WB LEFT TURN FAR	COMB.			7	V13	5	5		CAMERA V5	23"
Vz52	WB LEFT TURN	LOCAL			8	V5	5			CAMERA V5	23"
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V1	23"
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	23"
Vz71	NB LEFT TURN FAR	COMB.			15	V15	7	7		CAMERA V7	23"
Vz72	NB LEFT TURN	LOCAL			16	V7	7			CAMERA V7	23"
Vz81 A&B	SB ADVANCE	LOCAL			11	V8	8			CAMERA V3	23"
Vz82 A&B	SB NEAR	COMB.			12	V16	8	8		CAMERA V3	23"
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: "AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.
THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND 8TH ST. 1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	FLASH SEQUENCE
1	~~<G~~	*	~~<FY~~	***	~~<G~~	*	~~<FY~~	***	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
2 & 3	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
4	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<G~~	*	~~<FY~~	***	~~<G~~	*	~~<FY~~	***	~~<R~~
5 & 6	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
7	<G	*	<G	*	~~<FY~~	***	~~<FY~~	***	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
8 & 9	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
10	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<G~~	*	~~<G~~	*	~~<FY~~	***	~~<FY~~	***	~~<R~~
11 & 12	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

STAGE II CONSTRUCTION: HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\IMOT PH2 SIGNAL.dgn MODEL: MOT @ 8TH ST charts
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	159	320
		SIGNALIZATION PLAN SHEET				

DETECTOR SPACING CHART

HIGHWAY 71B VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'
8TH ST. VIRTUAL LOOPS		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD VDZ	LAG VDZ
35 MPH	200'	85'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
2-16-2024

INSTALL CONTROLLER CABINET & PAD

69

1–3" NM CONDUIT

2" G.S. CONDUIT

WOOD SERVICE POLE

1–3" NM CONDUIT

SERVICE POINT

CONC. PULL BOX (TYPE 1 HD)

SERVICE POINT ENLARGED DETAIL

SERVICE POINT AND MAIN BREAKER BY CONTRACTOR WITHIN 10 FEET OF CONTROLLER

SEE SERVICE POINT ENLARGED DETAIL

GRAPHIC SCALE IN FEET
60' 0 60'

VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 85' BEHIND STOP LINE

VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 200' BEHIND STOP LINE

VIRTUAL 6'x6' PULSE VDZ (TYPICAL) LOCATED 65' BEHIND STOP LINE

VIRTUAL 6'x50' PRESENCE VDZ (TYPICAL)

HWY. 71B (WEST WALNUT STREET)

HWY. 94 (NORTH 8TH STREET)

HWY. 71B (SOUTH 8TH STREET)

WEST WALNUT STREET

VIDEO/RADAR DETECTOR (TYPICAL)

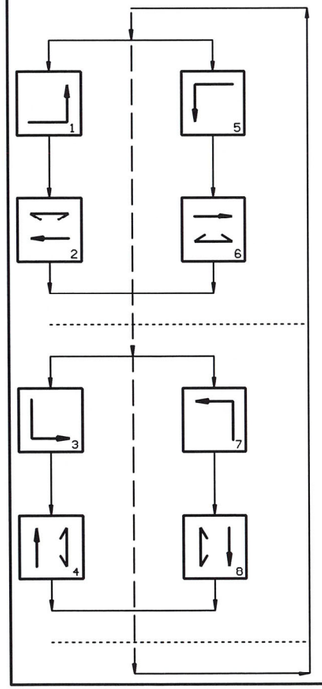
ø1 ø2 ø3 ø4 ø5 ø6 ø7 ø8

P.T. 70+72.82

S85°54'38.8"E

S86°42'07.4"E

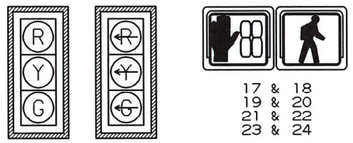
PHASING DIAGRAM



SIGNAL FACES

12" LENSES

ONE SECTION (SOLID SYMBOL)



NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.

HIGHWAY 71B AND 8TH ST. POLE DIMENSIONS

POLE	MAST ARM	* MAST ARM ANGLE	** HAND HOLE	VERT. SHAFT	LUM. ARM	* LUM. ANGLE
A	54'	180°	180°	35'	15'	180°
B	54'	270°	180°	35'	15'	270°
C	N/A	N/A	N/A	10'	N/A	N/A
D	52'	0°	180°	35'	15'	0°
E	50'	90°	270°	35'	15'	90°

* MAST ARM AND LUMINAIRE ARM ANGLE MEASURED FROM PLAN NORTH = 0°, CLOCKWISE ROTATION.
** HAND HOLE LOCATION MEASURED CLOCKWISE FROM MAST ARM.

HWY. 71B AT 8TH STREET

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=60' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNAL-S\SIGNAL PLAN 8TH STREET.dgn MODEL: 60 SCALE
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN 8TH STREET.dgn 2/16/2024 15:36

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	160	320
		SIGNALIZATION PLAN SHEET				

CONTROLLER CABINET LOCATION

LOCATION & STATION	* OFFSET	* X, Y COORDINATES
HWY. 71B - STA. 68+97.68	71.24' LT.	686173.21, 734921.40

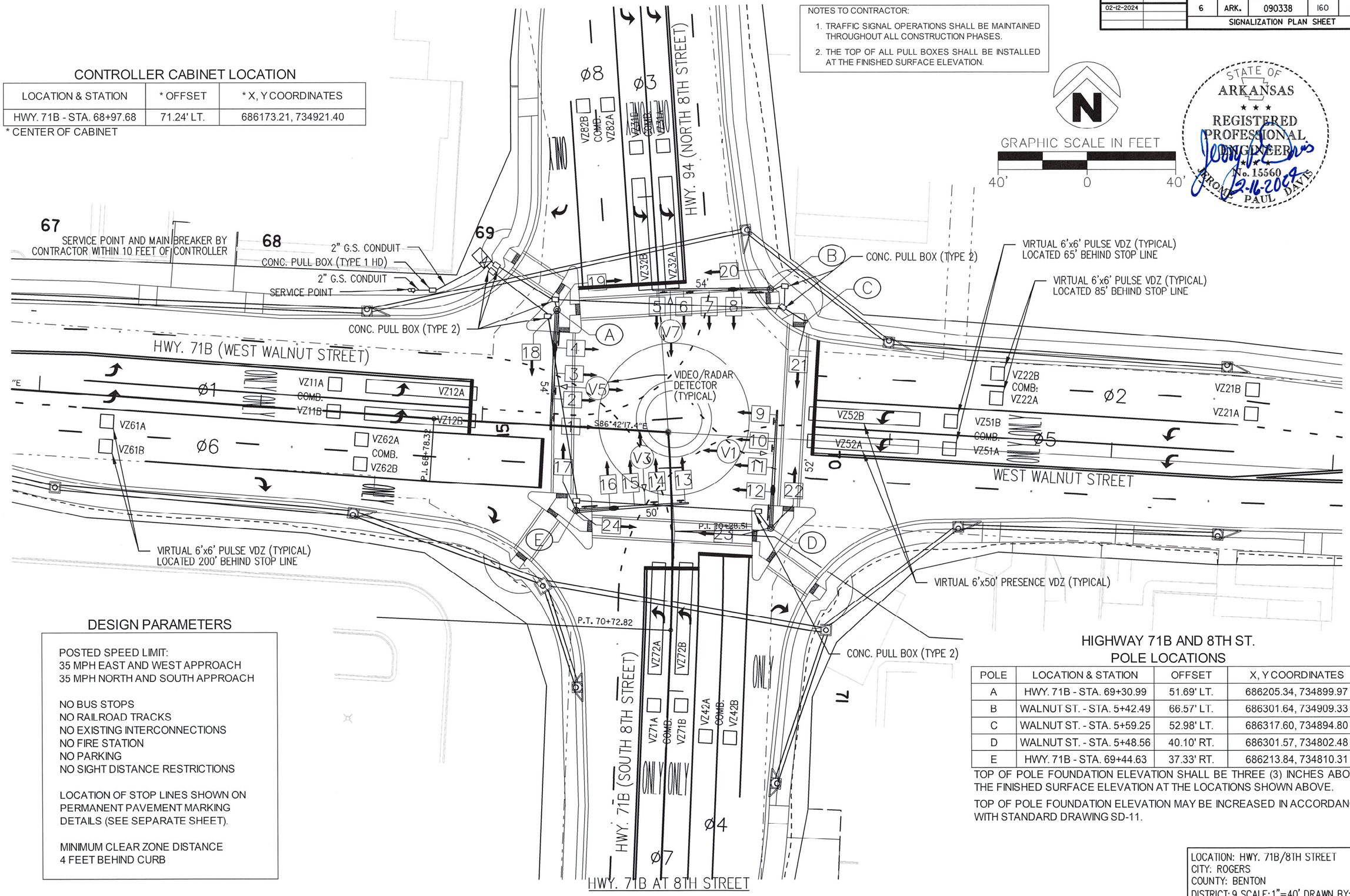
* CENTER OF CABINET

NOTES TO CONTRACTOR:

1. TRAFFIC SIGNAL OPERATIONS SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES.
2. THE TOP OF ALL PULL BOXES SHALL BE INSTALLED AT THE FINISHED SURFACE ELEVATION.

GRAPHIC SCALE IN FEET
40' 0 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15560
JEROME PAUL DAVIS
12-16-2024



DESIGN PARAMETERS

POSTED SPEED LIMIT:
35 MPH EAST AND WEST APPROACH
35 MPH NORTH AND SOUTH APPROACH

NO BUS STOPS
NO RAILROAD TRACKS
NO EXISTING INTERCONNECTIONS
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

LOCATION OF STOP LINES SHOWN ON PERMANENT PAVEMENT MARKING DETAILS (SEE SEPARATE SHEET).

MINIMUM CLEAR ZONE DISTANCE
4 FEET BEHIND CURB

HIGHWAY 71B AND 8TH ST. POLE LOCATIONS

POLE	LOCATION & STATION	OFFSET	X, Y COORDINATES
A	HWY. 71B - STA. 69+30.99	51.69' LT.	686205.34, 734899.97
B	WALNUT ST. - STA. 5+42.49	66.57' LT.	686301.64, 734909.33
C	WALNUT ST. - STA. 5+59.25	52.98' LT.	686317.60, 734894.80
D	WALNUT ST. - STA. 5+48.56	40.10' RT.	686301.57, 734802.48
E	HWY. 71B - STA. 69+44.63	37.33' RT.	686213.84, 734810.31

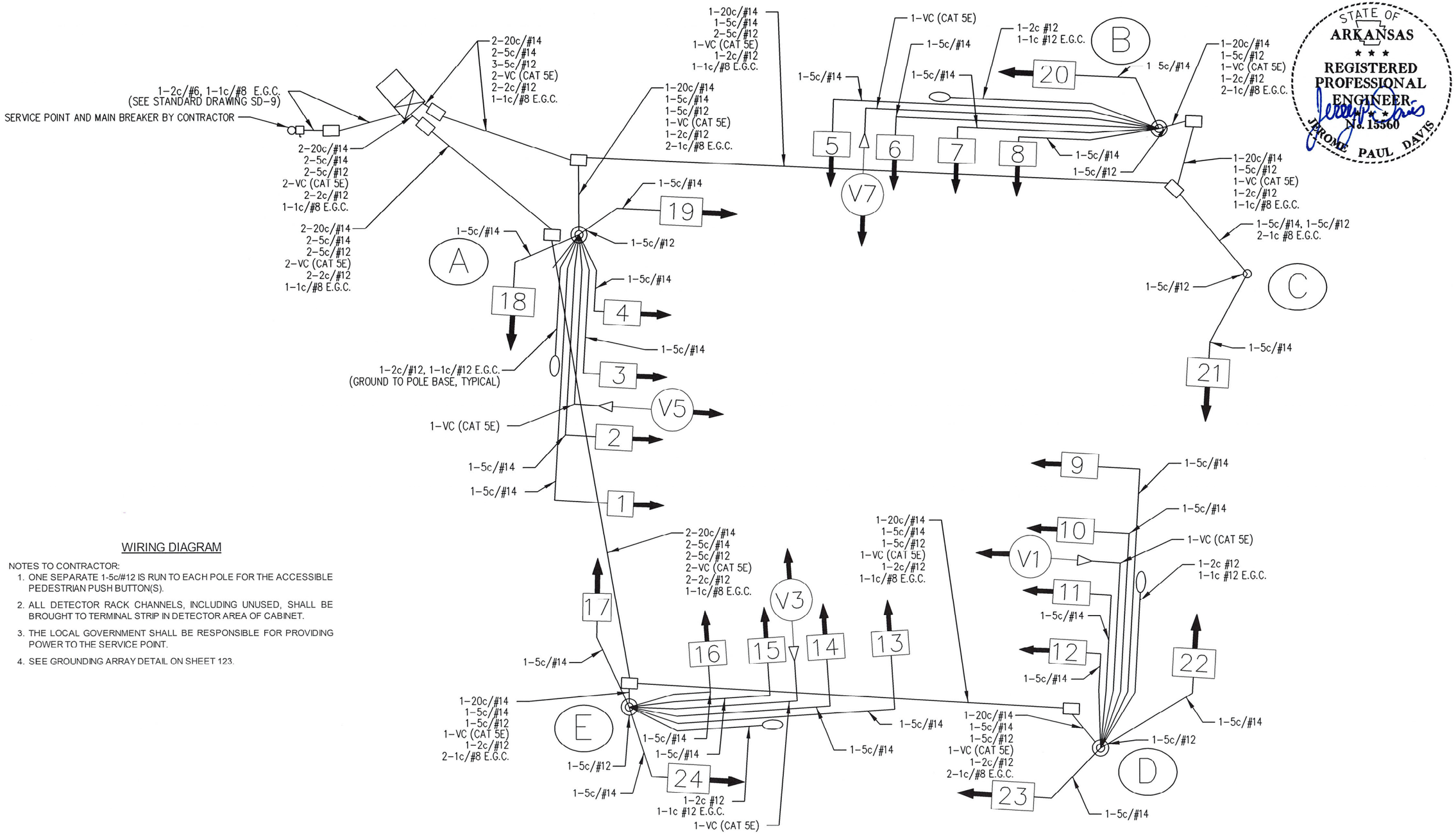
TOP OF POLE FOUNDATION ELEVATION SHALL BE THREE (3) INCHES ABOVE THE FINISHED SURFACE ELEVATION AT THE LOCATIONS SHOWN ABOVE.

TOP OF POLE FOUNDATION ELEVATION MAY BE INCREASED IN ACCORDANCE WITH STANDARD DRAWING SD-11.

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: 1"=40' DRAWN BY: ETM

USER: jc5296
DESIGN FILE: G:\111061OO_WalnutSt\TRANSP\dgn\SIGNALS\SIGNAL PLAN 8TH STREET.dgn MODEL: 40 SCALE
PLOTTED: 2/16/2024 15:36 SCALE: 1:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	161	320
		SIGNALIZATION PLAN SHEET				


SERVICE POINT AND MAIN BREAKER BY CONTRACTOR
1-2c/#6, 1-1c/#8 E.G.C. (SEE STANDARD DRAWING SD-9)
2-20c/#14 2-5c/#14 2-5c/#12 2-VC (CAT 5E) 2-2c/#12 1-1c/#8 E.G.C.
2-20c/#14 2-5c/#14 3-5c/#12 2-VC (CAT 5E) 2-2c/#12 1-1c/#8 E.G.C.
2-20c/#14 2-5c/#14 2-5c/#12 2-VC (CAT 5E) 2-2c/#12 1-1c/#8 E.G.C.
1-20c/#14 1-5c/#14 2-5c/#12 1-VC (CAT 5E) 1-2c/#12 1-1c/#8 E.G.C.
1-20c/#14 1-5c/#14 1-5c/#12 1-VC (CAT 5E) 1-2c/#12 2-1c/#8 E.G.C.
1-VC (CAT 5E)
1-5c/#14
1-2c #12 1-1c #12 E.G.C.
1 5c/#14
1-20c/#14 1-5c/#12 1-VC (CAT 5E) 1-2c/#12 2-1c/#8 E.G.C.
1-5c/#14
1-5c/#12
1-20c/#14 1-5c/#12 1-VC (CAT 5E) 1-2c/#12 1-1c/#8 E.G.C.
1-5c/#14, 1-5c/#12 2-1c #8 E.G.C.
1-5c/#12
1-5c/#14
1-2c/#12, 1-1c/#12 E.G.C. (GROUND TO POLE BASE, TYPICAL)
1-VC (CAT 5E)
1-5c/#14
1-5c/#14
2-20c/#14 2-5c/#14 2-5c/#12 2-VC (CAT 5E) 2-2c/#12 1-1c/#8 E.G.C.
1-20c/#14 1-5c/#14 1-5c/#12 1-VC (CAT 5E) 1-2c/#12 1-1c/#8 E.G.C.
1-5c/#14
1-5c/#14
1-5c/#12
1-5c/#14
1-5c/#14
1-5c/#14
1-2c #12 1-1c #12 E.G.C.
1-VC (CAT 5E)
1-5c/#14
1-20c/#14 1-5c/#14 1-5c/#12 1-VC (CAT 5E) 1-2c/#12 2-1c/#8 E.G.C.
1-5c/#14
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1-5c/#14
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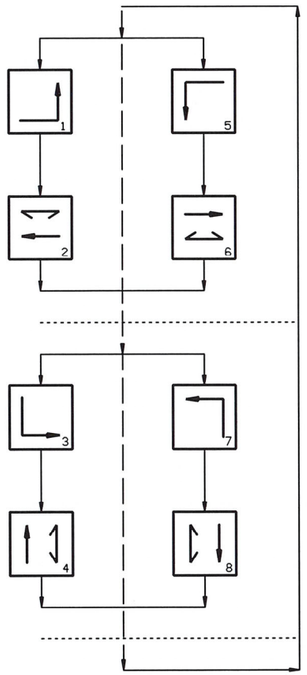
1-2c #12 1-1c #12 E.G.C.
1-5c/#14
1-20c/#14 1-5c/#14 1-5c/#12 1-VC (CAT 5E) 1-2c/#12 2-1c/#8 E.G.C.
1-5c/#14
1-5c/#14
1-VC (CAT 5E)
1-5c/#14
1-5c/#14
1-5c/#14
1-5c/#14
1-5c/#14
1-5c/#14
1-5c/#14
1-5c/#14
1-5c/#14

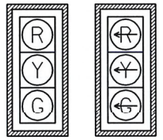
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
02-12-2024		6	ARK.	090338	162	320
		SIGNALIZATION PLAN SHEET				

PHASING DIAGRAM



SIGNAL FACES

12" LENSES



3 & 4
7 & 8
11 & 12
15 & 16

1 & 2
5 & 6
9 & 10
13 & 14

ONE SECTION
(SOLID SYMBOL)



17 & 18
19 & 20
21 & 22
23 & 24

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.



DETECTOR CHART

DETECTOR SYSTEM DESCRIPTION: JOB 090338											
HIGHWAY 71B AND 8TH ST. DETECTOR ASSIGNMENTS				HARDWARE INPUTS BY SUPPLIER			PROGRAM ASSIGNMENTS			COMMENTS	TUBE LENGTHS
							LOCAL		MASTER SYSTEM		
DET. ID #	LOCATION DIRECTION	TYPE	DET. #	CAB. TRM. #	AMP CHN. #	CON. IMP. #	PHS	SYSTEM DET. #	DETECTOR NUMBERS		
Vz11 A&B	EB LEFT TURN FAR	COMB.				V9	1	1		CAMERA V1	
Vz12 A&B	EB LEFT TURN	LOCAL				V1	1			CAMERA V1	
Vz21 A&B	WB ADVANCE	LOCAL				V2	2			CAMERA V5	
Vz22 A&B	WB NEAR	COMB.				V10	2	2		CAMERA V5	
Vz31 A&B	SB LEFT TURN FAR	COMB.				V11	3	3		CAMERA V3	
Vz32 A&B	SB LEFT TURN	LOCAL				V3	3			CAMERA V3	
Vz41 A&B	NB ADVANCE	LOCAL				V4	4			CAMERA V7	
Vz42 A&B	NB NEAR	COMB.				V12	4	4		CAMERA V7	
Vz51 A&B	WB LEFT TURN FAR	COMB.				V13	5	5		CAMERA V5	
Vz52 A&B	WB LEFT TURN	LOCAL				V5	5			CAMERA V5	
Vz61 A&B	EB ADVANCE	LOCAL				V6	6			CAMERA V1	
Vz62 A&B	EB NEAR	COMB.				V14	6	6		CAMERA V1	
Vz71 A&B	NB LEFT TURN FAR	COMB.				V15	7	7		CAMERA V7	
Vz72 A&B	NB LEFT TURN	LOCAL				V7	7			CAMERA V7	
Vz81 A&B	SB ADVANCE	LOCAL				V8	8			CAMERA V3	
Vz82 A&B	SB NEAR	COMB.				V16	8	8		CAMERA V3	
PB2 A&B	8TH ST. N. LEG	PED.				P2	2				
PB4 A&B	HWY. 71B E. LEG	PED.				P4	4				
PB6 A&B	8TH ST. S. LEG	PED.				P6	6				
PB8 A&B	HWY. 71B W. LEG	PED.				P8	8				
					SPARE:						

CONTROLLER INPUT ABBREVIATIONS:
V = VEHICLE INPUT
D = SYSTEM OR AUXILIARY INPUT
P = PEDESTRIAN INPUT

NOTE: THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.
EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2
HYBRID VIDEO/RADAR DETECTORS ARE MAST ARM MOUNTED.

INTERVAL CHART

SIGNAL FACES	HIGHWAY 71B AND 8TH ST.																FLASH SEQUENCE
	1+5	CLR.	1+6	CLR.	2+5	CLR.	2+6	CLR.	3+7	CLR.	3+8	CLR.	4+7	CLR.	4+8	CLR.	
1 & 2	~~<G~~	*	~~<R~~	~~<R~~	~~<G~~	*	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
3 & 4	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
5 & 6	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<G~~	*	~~<R~~	~~<R~~	~~<G~~	*	~~<R~~	~~<R~~	~~<R~~
7 & 8	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
9 & 10	~~<G~~	*	~~<G~~	*	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
11 & 12	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
13 & 14	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<G~~	*	~~<G~~	*	~~<R~~	~~<R~~	~~<R~~	~~<R~~	~~<R~~
15 & 16	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
17 & 18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	BLK
19 & 20	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK
21 & 22	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	BLK
23 & 24	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	BLK

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE

LOCATION: HWY. 71B/8TH STREET
CITY: ROGERS
COUNTY: BENTON
DISTRICT: 9 SCALE: N/A DRAWN BY: ETM

USER: jo5296
DESIGN FILE: G:\111061OO_Walnut St\TRANSP\dgn\SIGNALS\SIGNAL PLAN 8TH STREET.dgn MODEL: SIGNALIZATION CHARTS
PLOTTED: 2/16/2024 15:37 SCALE: 1:1

PROJECT No. 20-009
COMPLETE 100%

Engineering Elements, PLLC
2458 East Joyce Boulevard, Suite 1
Fayetteville, AR 72703
Phone: 479-935-1333, Fax: 479-251-7982

CERTIFICATE OF AUTH. — ENGINEERING ELEMENTS, PLLC — No. 1227 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 10054 — SHANE R. LANNING — 7/1/20

DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	163	320
		ILLUMINATION LAYOUT				

GENERAL NOTES

1. ELECTRICAL DRAWINGS (POWER AND LIGHTING) ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE. USE JUDGMENT AND CARE TO INSTALL ELECTRICAL WORK TO FUNCTION PROPERLY AND FIT WITHIN CONSTRUCTION AND FINISHES. ALL CONDUCTORS, CONDUIT, AND MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED, WHICH ARE REQUIRED FOR A COMPLETE OPERATING DEVICE OR SYSTEM ARE REQUIRED TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NFPA 70, CURRENT EDITION), LIFE SAFETY CODE (NFPA 101M CURRENT EDITION), UNDERGROUND FACILITIES DAMAGE PREVENTION ACT (§ 17-28-101 ET SEQ.), AND LOCAL ELECTRICAL CODE. IN ADDITION, ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
3. THE CONTRACTOR SHALL NOT ENGAGE IN EXCAVATION OR DEMOLITION ACTIVITIES WITHOUT HAVING FIRST NOTIFIED THE ARKANSAS ONE CALL CENTER IN ACCORDANCE WITH UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE CALL CENTER.
4. UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. SOME UTILITIES MAY HAVE BEEN RELOCATED SINCE THE TIME OF DESIGN AND THE CONTRACTOR'S NOTICE TO PROCEED. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES INVOLVED AND VERIFY THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL IT IS NO LONGER NECESSARY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
6. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAYBE THE PROPERTY OF THE UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
7. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY A PUSHING OR BORING METHOD AS DIRECTED BY ENGINEER. PVC OR HDPE CONDUIT SHALL BE USED. PVC CONDUIT SHALL BE MARKED "DIR. BORING" OR "DIRECTIONAL BORING" AS PER NEC.
8. PULL BOX LIDS SHALL CLOSE FLUSH WITH OUT PINCHING ANY CONDUCTORS. CONDUIT LENGTHS IN PULL BOXES SHALL BE SET ACCORDINGLY. ANY CONDUCTORS THAT HAVE BEEN DAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT CONTRACTOR'S EXPENSE.
9. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL ROUGH-INS AT THE PROJECT SITE. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF DEVICES. FIELD VERIFY FINAL MOUNTING LOCATIONS AS REQUIRED BY PROJECT CONDITIONS PRIOR TO ROUGH-IN.
10. ALL DEVICES TO BE INSTALLED BY THIS TRADE SHALL BE COORDINATED WITH ALL TRADES. DURING CONSTRUCTION TO AVOID CONFLICT AND TO PROVIDE A QUALITY PROJECT. IF YOU NOTICE ANY DISCREPANCY BETWEEN THIS WORK AND A SEPARATE TRADE, NOTIFY THE ENGINEER IMMEDIATELY FOR DIRECTION. ANY COORDINATION WORK THAT OCCURS WITHOUT APPROVAL FROM THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL MOUNTING LOCATIONS SHALL BE CONFIRMED WITH OWNER AT EACH SITE.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE AND METERING REQUIREMENTS WITH THE UTILITY POWER COMPANY (CONDUITS, GROUNDING, CONCRETE PADS, TRENCHING, ETC.). PAY ALL SERVICE FEES AS NECESSARY. ARRANGE TO PROVIDE TEMPORARY CONSTRUCTION SERVICE AS NECESSARY.
12. BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE 2 SETS OF LEDGER SIZE (11"X17") AS-BUILT PLANS TO THE MAINTENANCE AUTHORITY AND ARDOT.
13. ALL ELECTRICAL COMPONENTS SHALL BE UL-LISTED.
14. ALL LUMINAIRE ASSEMBLIES SHALL HAVE BUG RATING OF U0.
15. ALL UNDERGROUND CONDUIT SHALL HAVE MINIMUM 24" COVER.
16. LIMIT ALL CONDUIT FILL TO A MAXIMUM OF 40%.
17. EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED TO EACH POLE, GROUND ROD, LUMINAIRE AND SERVICE POINT PER NEC. SEE ARTICLES 250 AND 410.
18. ALL CONCRETE PULL BOXES SHALL BE TYPE 2 HD UNLESS OTHERWISE INDICATED ON THE PLANS. PROVIDE A TYPE 2 HD CONCRETE PULL BOX WITHIN 5' OF EVERY P1 POLE LIGHT FOUNDATION.
19. DEGREE OF TILT ON LUMINARIES SHALL BE ZERO.
20. ALL SPLICES SHALL BE WATERTIGHT AND UL-LISTED FOR CONTINUOUS USE IN SUBMERSIBLE INSTALLATION.
21. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO PROJECT ENGINEER, TO ENSURE ARKANSAS STATE CODES (§17-28-101 ET SEQ. AND §20-31-101 ET SEQ.) ARE MET. THE DOCUMENTATION SHALL INCLUDE:
    - 21.1. ELECTRICIANS' LICENSE INFORMATION AND EXPIRATION DATE.
    - 21.2. THE RATIO OF LICENSED-ELECTRICIAN-TO -APPRENTICE-ELECTRICIANS.
    - 21.3. PRINTED SEARCH RESULTS OF LICENSED ELECTRICIANS FROM ARKANSAS DEPARTMENT OF LABOR ELECTRICIAN LICENSEE DIRECTORY (http://www.ark.org/labor/electrician/search.php)
    - ALL LICENCES SHALL BE VALID AND CURRENT.
22. NON-DESTRUCTIVE MEG TEST AND CURRENT LEAKAGE TEST SHALL BE PERFORMED ON NEW CONDUCTORS, IN THE PRESENCE OF FIELD INSPECTOR. THE TEST VOLTAGE SHALL BE LIMITED TO 600 VOLTS. ANY CONDUCTOR NOT MEETING THE MINIMUM ACCEPTABLE VALUE SHALL BE DOCUMENTED AND PROVIDED TO THE JOB ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED BY MEG TEST WHILE DEVICES OR ACCESSORIES ARE STILL CONNECTED AND SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE SPECIAL PROVISION ELECTRICAL CONDUCTORS-IN-CONDUIT.
23. EACH ROADWAY ILLUMINATION POLE SHALL BE BONDED TO EQUIPMENT GROUNDING CONDUCTOR PER NEC. SEE ARTICLES 250 AND 410.
24. PULL CABLE SHALL BE MINIMUM 1/4" PULL NYLON OR POLYESTER ROPE, OR 1200 LBS PULL TAPE WHEN PULLING CONDUCTORS. STEEL CABLE OR FISH TAPE SHALL NOT BE USED. CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY NEC FOR CONDUCTORS USED.
25. SLACK CABLES IN PULL BOXES SHALL BE 3 FEET.
26. ROUTE ALL CONDUCTORS THROUGH JUNCTION BOXES AS REQUIRED.

LIGHTING NOTES

1. FOR LUMINAIRE ORIENTATION AND X-Y COORDINATES OF POLES, SEE LUMINAIRE SCHDULE.
2. UNLESS OTHERWISE INDICATED, PULL BOX (TYPE 2 HD) SHALL BE INSTALLED WITHIN 5' OF POLE FOUNDATION.
3. INSTALL 2#12 XHHW-2, 1#12 E.G.C. FROM PULL BOX TO POLE LIGHTS.
4. INSTALL CONDUIT BELL END FITTINGS ON NON-METALLIC CONDUIT ENDS. THE COST OF FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM, "NON-METALLIC CONDUIT (2")".
5. THE DEGREE OF TILT ON LUMINAIRES SHALL BE ZERO.
6. ALL SPLICES SHALL BE WATERTIGHT AND UL-LISTED FOR CONTINUOUS USE IN SUBMERSIBLE INSTALLATIONS.
7. USE MINIMUM 1/4" PULL ROPE OR 12 LBS. PULL TAPE WHEN PULLING CONDUCTORS.
8. E.G.C. SHALL BE EXOTHERMICALLY BONDED TO GROUND ROD.
9. CONDUCT A MINIMUM 14-DAY BURN TEST FOR THE COMPLETE LIGHTING SYSTEM. REPLACE BURNED OUT AND NOTICEABLY DIM LUMINAIRES; MALFUNCTIONING EQUIPMENT SHALL BE CORRECTED, AND RETESTED THE SYSTEM. OTHERWISE REMOVE AND REPLACE WITH NEW EQUIPMENT.
10. SEE STANDARD DRAWING SD-6 FOR PULL BOX CONSTRUCTION.

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	TOTAL QUANTITY	UNIT
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT, COPPER (3C/6 A.W.G., E.G.C.)	21000	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT, COPPER (2C/6 A.W.G., E.G.C.)	36000	LIN. FT.
710	NON-METALLIC CONDUIT (3")	21000	LIN. FT.
SS & 711	CONCRETE PULL BOX (TYPE 2HD)	196	EACH
SP	LED LUMINAIRE ASSEMBLY WITH 14' POLE W/ BANNER ARMS AND FOUNDATION	51	EACH
SP	LED LUMINAIRE ASSEMBLY WITH 14' POLE AND FOUNDATION	121	EACH
SP	PEDESTAL TYPE SERVICE POINT (100 AMP)	3	EACH

NOTES:
1. PRIOR TO ORDERING, FIELD VERIFY EXACT QUANTITIES AND LENGTHS.

RECEPTACLE SCHEDULE

SYMBOL	MODEL NUMBER	DESCRIPTION
WP	GFTWRST20	HUBBELL WEATHERPROOF GFCI DUPLEX RECEPTACLE WITH HUBBELL WP26E COVER (18" AFF)

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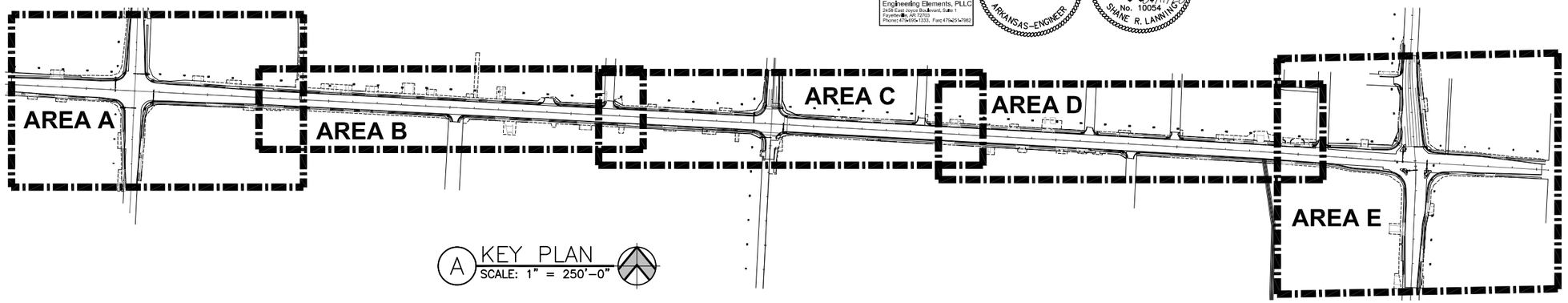
		6	ARK.	090338	164	320
		ILLUMINATION LAYOUT				

PROJECT No. 20-009
COMPLETE 100%

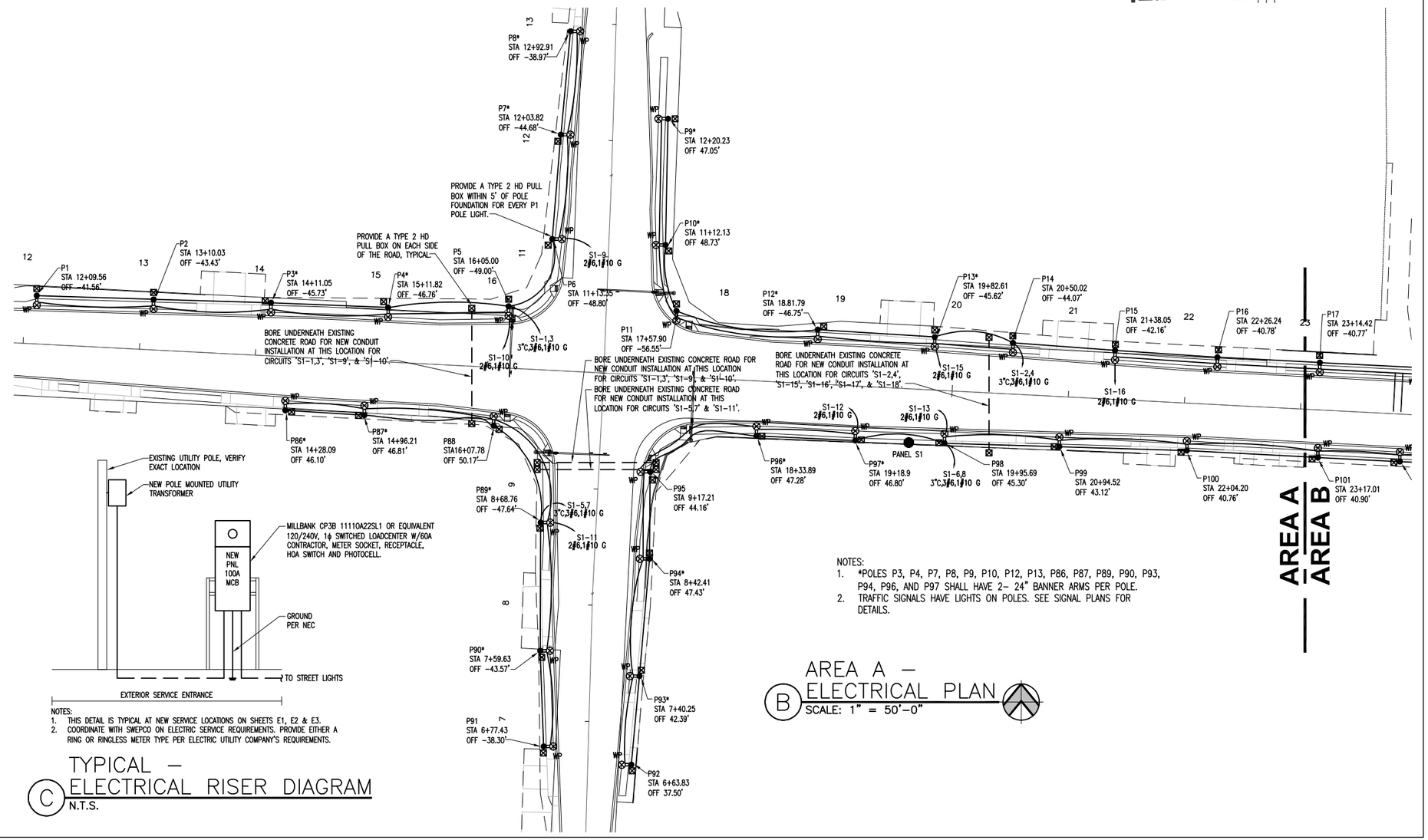
Engineering Elements, PLLC
2458 East Joyce Boulevard, Suite 1
Fayetteville, AR 72703
Phone: 479.935.1333, Fax: 479.251.7982

CERTIFICATE OF AUTH. — ENGINEERING ELEMENTS, PLLC — No. 1227 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 10054 — SHANE R. LANNING — 11/13/20

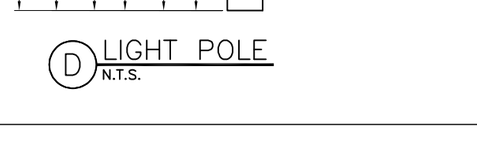


A KEY PLAN
SCALE: 1" = 250'-0"



NOTES:
1. *POLES P3, P4, P7, P8, P9, P10, P12, P13, P86, P87, P89, P90, P93, P94, P96, AND P97 SHALL HAVE 2– 24" BANNER ARMS PER POLE.
2. TRAFFIC SIGNALS HAVE LIGHTS ON POLES. SEE SIGNAL PLANS FOR DETAILS.

B AREA A – ELECTRICAL PLAN
SCALE: 1" = 50'-0"



D LIGHT POLE
N.T.S.

NOTES:
1. THIS DETAIL IS TYPICAL AT NEW SERVICE LOCATIONS ON SHEETS E1, E2 & E3.
2. COORDINATE WITH SWEPCO ON ELECTRIC SERVICE REQUIREMENTS. PROVIDE EITHER A RING OR RINGLESS METER TYPE PER ELECTRIC UTILITY COMPANY'S REQUIREMENTS.

C TYPICAL – ELECTRICAL RISER DIAGRAM
N.T.S.

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 10054 — SHANE R. LANNING — 9/17/20

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		6	ARK.	090338	165	320
		ILLUMINATION LAYOUT				

NOTES:
1. *POLES P38, P39, P41, P42, P43, P44, P46, P47, P121, P122, P124, P126, AND P127 SHALL HAVE 2- 24" BANNER ARMS PER POLE
2. TRAFFIC SIGNALS HAVE LIGHTS ON POLES. SEE SIGNAL PLANS FOR DETAILS.

AREA B
AREA C

P33 STA 36+80.39 OFF -53.16'
P34 STA 37+62.91 OFF -40.77'
P35 STA 38+58.34 OFF -40.89'
P36 STA 39+02.77 OFF -40.77'
P37 STA 40+17.68 OFF -40.80'
P38* STA 41+05.62 OFF -40.75'
P39* STA 41+89.74 OFF -40.81'
PROVIDE A TYPE 2 HD PULL BOX ON EACH SIDE OF THE ROAD, TYPICAL.
P40 STA 42+78.70 OFF -52.17'
P41* STA 15+98.14 OFF -36.28'
P42* STA 16+94.09 OFF -33.80'
P43* STA 16+95.13 OFF 24.07
BORE UNDERNEATH EXISTING CONCRETE ROAD FOR NEW CONDUIT INSTALLATION AT THIS LOCATION FOR CIRCUIT 'S2-5,7', 'S2-14', 'S2-15', & 'S2-16'.
P44* STA 15+93.16 OFF 40.23'
P45 STA 43+88.00 OFF -49.00'
P46* STA 44+69.40 OFF -40.73'
P47* STA 54+60.04 OFF -40.76'
P48 STA 46+47.76 OFF -40.74'
P49 STA 47+45.20 OFF 40.75'
P50 STA 48+40.66 OFF -40.76'
P51 STA 49+12.19 OFF -41.16'
P52 STA 49+98.03 OFF -40.78'
P53 STA 51+09.39 OFF -40.74'
S2-10 2#6,1#10 G
S2-12 2#6,1#10 G
S2-13 2#6,1#10 G
S2-2,4 3"C,3#6,1#10 G
S2-5,7 3"C,3#6,1#10 G
S2-14 2#6,1#10 G
S2-15 2#6,1#10 G
BORE UNDERNEATH EXISTING CONCRETE ROAD FOR NEW CONDUIT INSTALLATION AT THIS LOCATION FOR CIRCUIT 'S2-2,4', 'S2-12', & 'S2-13'.
BORE UNDERNEATH EXISTING CONCRETE ROAD FOR NEW CONDUIT INSTALLATION AT THIS LOCATION FOR CIRCUIT 'S2-5,7', 'S2-14', 'S2-15', & 'S2-16'.
P116 STA 36+23.33 OFF 40.77'
P117 STA 37+17.37 OFF 40.81'
P118 STA 38+03.23 OFF 40.75'
P119 STA 38+84.97 OFF 40.74'
P120 STA 39+96.43 OFF 40.87'
P121* STA 41+00.01 OFF 40.88'
P122* STA 41+80.66 OFF 40.79'
P123 STA 42+67.50 OFF 46.77'
P124* STA 14+09.71 OFF -30.24'
S2-1,3 3"C,3#6,1#10 G
S2-11 2#6,1#10 G
PANEL S2
S2-17 2#6,1#10 G
S2-6,8 3"C,3#6,1#10 G
P125 STA 43+78.59 OFF 48.23'
P126* STA 44+48.79 OFF 40.74'
P127* STA 45+34.36 OFF 40.78'
P128 STA 46+20.19 OFF 40.83'
P129 STA 47+04.94 OFF 40.77'
P130 STA 47+88.82 OFF 40.75'
P131 STA 48+73.85 OFF 40.76'
P132 STA 49+66.53 OFF 40.76'
P133 STA 50+81.71 OFF 40.76'
P134 STA 51+27.60 OFF 40.78'
S2-18 2#6,1#10 G
BORE UNDERNEATH EXISTING CONCRETE ROAD FOR NEW CONDUIT INSTALLATION AT THIS LOCATION FOR CIRCUIT 'S2-6,8', 'S2-17', 'S2-18', & 'S2-19'.

AREA C — ELECTRICAL PLAN (B)
SCALE: 1" = 50'-0"

AREA A
AREA B

P16 STA 22+26.24 OFF -40.78'
P17 STA 23+14.42 OFF -40.77'
P18 STA 24+03.08 OFF -43.00'
P19 STA 25+07.05 OFF -43.64'
P20 STA 25+91.04 OFF -43.69'
P21 STA 26+52.16 OFF -43.60'
PROVIDE A TYPE 2 HD PULL BOX WITHIN 5' OF POLE FOUNDATION FOR EVERY P1 POLE LIGHT.
P22 STA 27+60.88 OFF -43.80'
P23 STA 28+59.64 OFF -43.68'
P24 STA 29+42.26 OFF -43.69'
P25 STA 30+23.78 OFF -43.64'
P26 STA 31+15.93 OFF -42.99'
P27 STA 32+04.47 OFF -41.93'
P28 STA 32+88.77 OFF -40.72'
P29 STA 33+73.55 OFF -41.71'
P30 STA 34+63.01 OFF -40.79'
P31 STA 35+48.94 OFF -40.78'
P32 STA 36+29.14 OFF -48.62'
P33 STA 36+80.39 OFF -53.16'
P34 STA 37+62.91 OFF -40.77'
S1-14 2#6,1#10 G
S1-17 2#6,1#10 G
S1-18 2#6,1#10 G
S2-9 2#6,1#10 G
P100 STA 22+04.20 OFF 40.76'
P101 STA 23+17.01 OFF 40.90'
P102 STA 23+87.66 OFF 40.77'
P103 STA 24+65.89 OFF 40.77'
P104 STA 25+61.08 OFF 40.75'
P105 STA 26+36.62 OFF 40.75'
P106 STA 27+37.57 OFF 40.76'
P107 STA 28+27.25 OFF 40.75'
P108 STA 29+13.80 OFF 40.77'
P109 STA 29+94.66 OFF 47.28'
P110 STA 30+66.05 OFF 40.81'
P111 STA 31+50.62 OFF 40.78'
P112 STA 32+39.80 OFF 40.84'
P113 STA 33+31.54 OFF 40.77'
P114 STA 34+39.12 OFF 40.78'
P115 STA 35+19.98 OFF 40.73'
P116 STA 36+23.33 OFF 40.77'
P117 STA 37+17.37 OFF 40.81'

AREA B — ELECTRICAL PLAN (A)
SCALE: 1" = 50'-0"

PROJECT No. 20-009
COMPLETE 100%

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		6	ARK.	090338	166	320

ILLUMINATION LAYOUT

PANEL S2

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 3R
VOLTAGE (L–L):	240	MOUNTING:	SURFACE
PHASES, WIRES:	1 ϕ, 3 W	AIC RATING:	0
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	100 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	PHASE LOADS (VA) B	POLE	TRIIP AMPS	DESCRIPTION	CKT NO
1,3	STREET LIGHTING	20	2	750	650	2	20	STREET LIGHTING	2,4
1,3	STREET LIGHTING	20	2		750	650	2	20	STREET LIGHTING	2,4
5,7	STREET LIGHTING	20	2	850	850	2	20	STREET LIGHTING	6,8
5,7	STREET LIGHTING	20	2		850	850	2	20	STREET LIGHTING	6,8
9	HOLIDAY LIGHTS	20	1	160	200	1	20	HOLIDAY LIGHTS	10
11	HOLIDAY LIGHTS	20	1		240	240	1	20	HOLIDAY LIGHTS	12
13	HOLIDAY LIGHTS	20	1	280	240	1	20	HOLIDAY LIGHTS	14
15	HOLIDAY LIGHTS	20	1		240	200	1	20	HOLIDAY LIGHTS	16
17	HOLIDAY LIGHTS	20	1	240	240	1	20	HOLIDAY LIGHTS	18
19	HOLIDAY LIGHTS	20	1		200	0	1	20	----	20
21	----	20	1	0	0	1	20	----	22
23	----	20	1		0	0	1	20	----	24
				CONNECTED LOAD PHASE TOTALS (VA)					
				4460	4220				

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		
Lighting	6.2	1.00	6.2	DEMAND LOAD	8.7 KVA
Receptacles (0 – 10 KVA)	2.5	1.00	2.5	SPARE CAPACITY	15.3 KVA
				SPARE CAPACITY	63.8 AMPS
				SPARE CAPACITY	64 %
TOTAL:	8.7		8.7		
LOAD (AMPS):	36.2		36.2		

PANEL S3

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 3R
VOLTAGE (L–L):	240	MOUNTING:	SURFACE
PHASES, WIRES:	1 ϕ, 3 W	AIC RATING:	0
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	100 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	PHASE LOADS (VA) B	POLE	TRIIP AMPS	DESCRIPTION	CKT NO
1,3	STREET LIGHTING	20	2	900	950	2	20	STREET LIGHTING	2,4
1,3	STREET LIGHTING	20	2		900	950	2	20	STREET LIGHTING	2,4
5,7	STREET LIGHTING	20	2	550	450	2	20	STREET LIGHTING	6,8
5,7	STREET LIGHTING	20	2		550	450	2	20	STREET LIGHTING	6,8
9	HOLIDAY LIGHTS	20	1	280	240	1	20	HOLIDAY LIGHTS	10
11	HOLIDAY LIGHTS	20	1		240	240	1	20	HOLIDAY LIGHTS	12
13	HOLIDAY LIGHTS	20	1	200	240	1	20	HOLIDAY LIGHTS	14
15	HOLIDAY LIGHTS	20	1		240	240	1	20	HOLIDAY LIGHTS	16
17	HOLIDAY LIGHTS	20	1	240	120	1	20	HOLIDAY LIGHTS	18
19	----	20	1		0	0	1	20	----	20
21	----	20	1	0	0	1	20	----	22
23	----	20	1		0	0	1	20	----	24
				CONNECTED LOAD PHASE TOTALS (VA)					
				4170	3810				

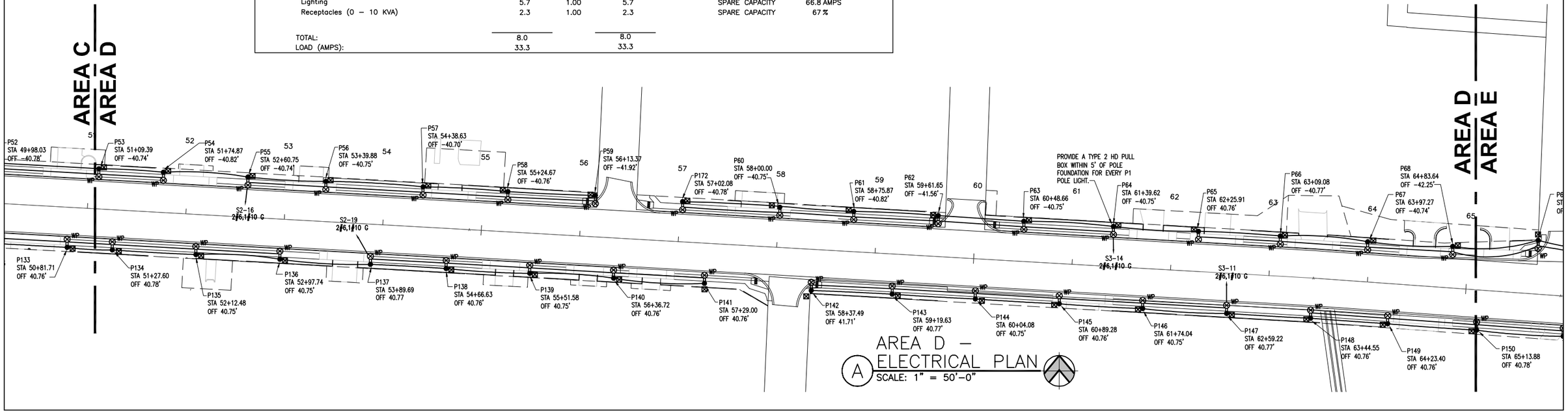
	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		
Lighting	5.7	1.00	5.7	DEMAND LOAD	8.0 KVA
Receptacles (0 – 10 KVA)	2.3	1.00	2.3	SPARE CAPACITY	16.0 KVA
				SPARE CAPACITY	66.8 AMPS
				SPARE CAPACITY	67 %
TOTAL:	8.0		8.0		
LOAD (AMPS):	33.3		33.3		

PANEL S1

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 3R
VOLTAGE (L–L):	240	MOUNTING:	SURFACE
PHASES, WIRES:	1 ϕ, 3 W	AIC RATING:	0
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	100 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	PHASE LOADS (VA) B	POLE	TRIIP AMPS	DESCRIPTION	CKT NO
1,3	STREET LIGHTING	20	2	450	550	2	20	STREET LIGHTING	2,4
1,3	STREET LIGHTING	20	2		450	550	2	20	STREET LIGHTING	2,4
5,7	STREET LIGHTING	20	2	300	500	2	20	STREET LIGHTING	6,8
5,7	STREET LIGHTING	20	2		300	500	2	20	STREET LIGHTING	6,8
9	HOLIDAY LIGHTS	20	1	120	200	1	20	HOLIDAY LIGHTS	10
11	HOLIDAY LIGHTS	20	1		240	240	1	20	HOLIDAY LIGHTS	12
13	HOLIDAY LIGHTS	20	1	240	240	1	20	HOLIDAY LIGHTS	14
15	HOLIDAY LIGHTS	20	1		240	240	1	20	HOLIDAY LIGHTS	16
17	HOLIDAY LIGHTS	20	1	240	120	1	20	HOLIDAY LIGHTS	18
19	----	20	1		0	0	1	20	----	20
21	----	20	1	0	0	1	20	----	22
23	----	20	1		0	0	1	20	----	24
				CONNECTED LOAD PHASE TOTALS (VA)					
				2960	2760				

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		
Lighting	3.6	1.00	3.6	DEMAND LOAD	5.7 KVA
Receptacles (0 – 10 KVA)	2.1	1.00	2.1	SPARE CAPACITY	18.3 KVA
				SPARE CAPACITY	76.2 AMPS
				SPARE CAPACITY	76 %
TOTAL:	5.7		5.7		
LOAD (AMPS):	23.8		23.8		



A AREA D – ELECTRICAL PLAN
SCALE: 1" = 50'-0"

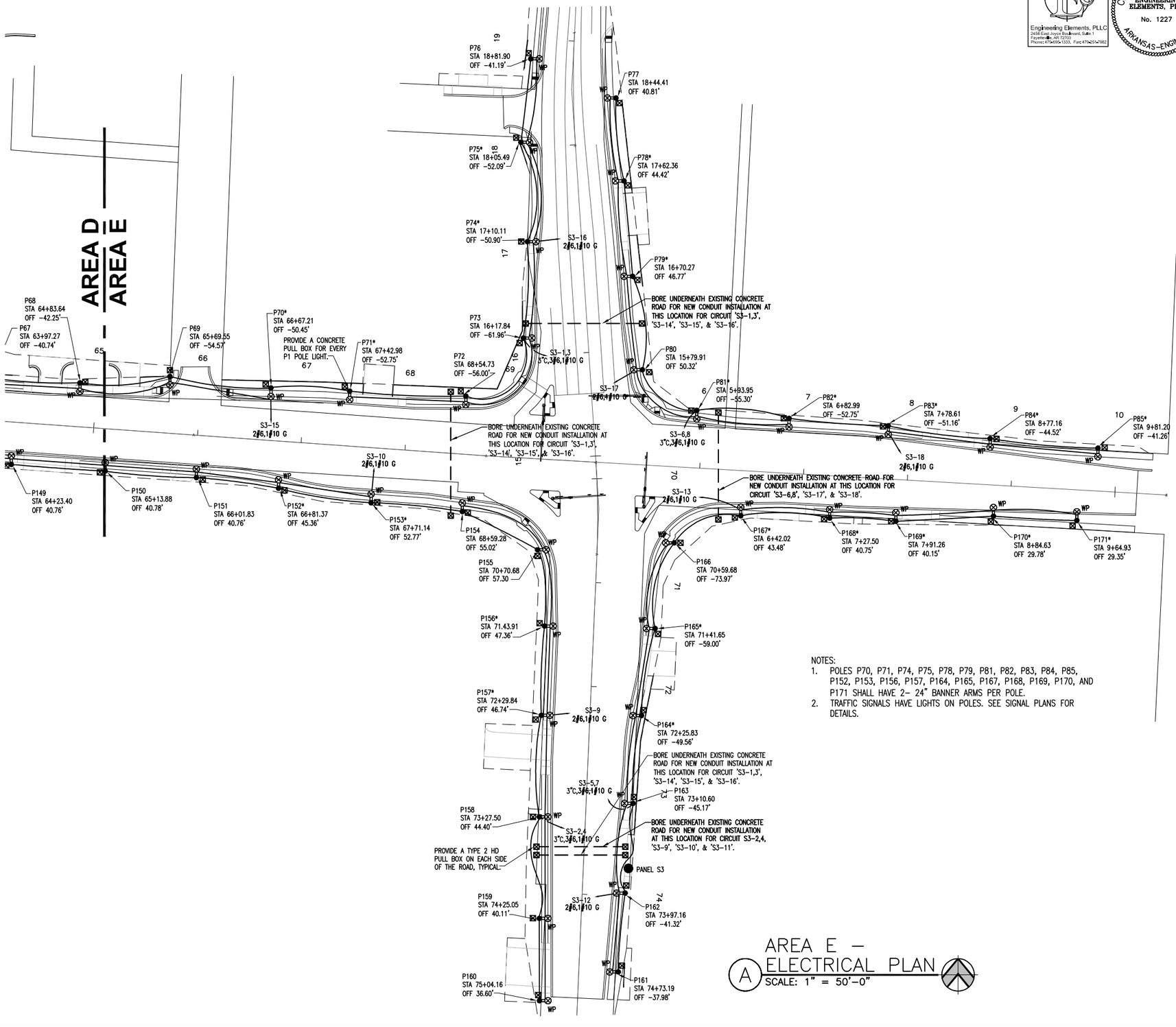
PROJECT No. 20-009
COMPLETE 100%

Engineering Elements, PLLC
2458 East Joyce Boulevard, Suite 1
Fayetteville, AR 72703
Phone: 479-935-1333, Fax: 479-251-7982

CERTIFICATE OF AUTHORITY
ENGINEERING ELEMENTS, PLLC
No. 1227
ARKANSAS ENGINEER

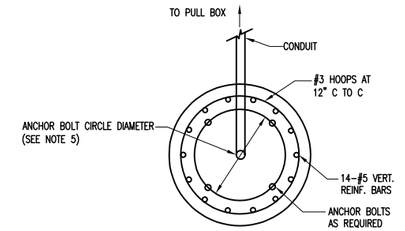
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10054
SHANE R. LANNING
11-07-23

DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	167	320
		ILLUMINATION LAYOUT				

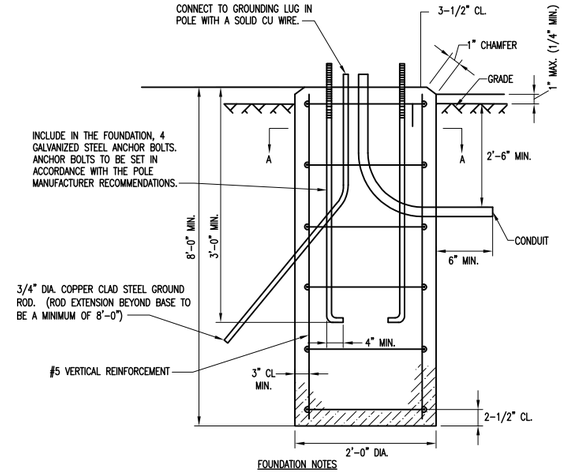


NOTES:
1. POLES P70, P71, P74, P75, P78, P79, P81, P82, P83, P84, P85, P152, P153, P156, P157, P164, P165, P167, P168, P169, P170, AND P171 SHALL HAVE 2- 24" BANNER ARMS PER POLE.
2. TRAFFIC SIGNALS HAVE LIGHTS ON POLES. SEE SIGNAL PLANS FOR DETAILS.

A AREA E – ELECTRICAL PLAN
SCALE: 1" = 50'-0"



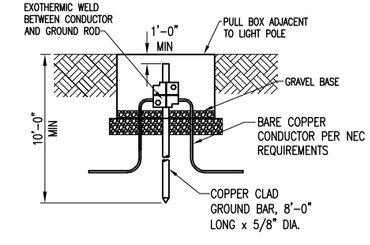
SECTION A–A



FOUNDATION NOTES

1. CONCRETE FOR LIGHT POLE STRUCTURE FOUNDATION SHALL HAVE A MINIMUM OF 4000 PSI. ALL REINFORCEMENT SHALL BE DEFORMED STEEL BARS AND CONFORM TO ASTM M31 OR M53, GRADE 60.
2. CONTRACTOR SHALL PROVIDE PRE-CAST OR CAST-IN-PLACE FOUNDATIONS.
3. PROVIDE WATERTIGHT CAPS FOR ANY UNUSED CONDUITS.
4. THE CONTRACTOR SHALL COORDINATE WITH THE LIGHTING FIXTURE, FOUNDATION, AND POLE MANUFACTURERS TO ENSURE PROPER FIT OF ALL COMPONENTS.
5. DIMENSIONS AND SIZE OF ANCHOR BOLTS, INCLUDING BOLT CIRCLE, TO BE VERIFIED BY LIGHT POLE MANUFACTURER.
6. CONTRACTOR TO COORDINATE THE APPROPRIATE DIMENSION TO ASSURE THE MINIMUM CONDUIT DEPTH IS 2'-9" WHEN LEADING PULLBOX.

C POLE BASE DETAIL
N.T.S.



B GROUND ROD DETAIL
N.T.S.

LUMINAIRE SCHEDULE (BOX 1 OF 2)							LUMINAIRE SCHEDULE (BOX 2 OF 2)						
POLE	NORTHING	EASTING	STA.	OFFSET (FT)	CENTER LINE	CIRCUIT	POLE	NORTHING	EASTING	STA.	OFFSET (FT)	CENTER LINE	CIRCUIT
P1	735205.62	680491.88	12+09.56	-41.56		S1-1,3	P86*	735106.88	680705.63	14+28.09	46.1		S1-5,7
P2	735202.34	680592.32	13+10.03	-43.43		S1-1,3	P87*	735102.69	680773.63	14+96.21	46.81	HWY. 71B	S1-5,7
P3*	735199.47	680693.32	14+11.05	-45.73	HWY. 71B	S1-1,3	P88	735093.62	680884.88	16+07.78	50.17		S1-5,7
P4*	735195.33	680794.01	15+11.82	-46.76		S1-1,3	P89*	735010.37	680925.25	8+68.76	-47.64		S1-5,7
P5	735093.70	680885.35	16+05.00	-49.00		S1-1,3	P90*	734900.13	680924.86	7+59.63	-43.57		S1-5,7
P6	735254.19	680935.26	11+13.35	-48.8		S1-1,3	P91	734817.81	680927.81	6+77.43	-38.3		S1-6,8
P7*	735344.00	680942.60	12+03.82	-44.68		S1-1,3	P92	734802.09	681003.20	6+63.83	37.5		S1-6,8
P8*	735432.88	680950.95	12+92.91	-38.97	DIXIELAND RD.	S1-1,3	P93*	734878.34	681010.23	7+40.25	42.39	DIXIELAND RD.	S1-6,8
P9*	735357.68	681034.78	12+20.23	47.05		S1-2,4	P94*	734979.19	681018.85	8+42.41	47.43		S1-6,8
P10*	735249.12	681032.66	11+12.13	48.73		S1-2,4	P95	735054.06	681019.41	9+17.21	44.16		S1-6,8
P11	735192.55	681040.31	17+57.90	-56.55		S1-2,4	P96*	735084.87	681110.82	18+33.89	47.28		S1-6,8
P12*	735176.31	681163.50	18+81.79	-46.75		S1-2,4	P97*	735080.96	681195.82	19+18.98	46.8		S1-6,8
P13*	735169.97	681264.13	19+82.61	-45.62		S1-2,4	P98	735078.50	681272.50	19+95.69	45.3		S1-6,8
P14	735164.95	681331.38	20+50.02	-44.07		S1-2,4	P99	735075.58	681371.32	20+94.52	43.12		S1-6,8
P15	735158.50	681419.19	21+38.05	-42.16		S1-2,4	P100	735072.28	681480.98	22+04.20	40.76		S1-6,8
P16	735152.56	681507.19	22+26.24	-40.78		S1-2,4	P101	735066.31	681593.63	23+17.01	40.9		S1-6,8
P17	735148.00	681595.25	23+14.42	-40.77		S1-2,4	P102	735062.80	681664.19	23+87.66	40.77		S1-6,8
P18	735145.65	681683.91	24+03.08	-43		S1-2,4	P103	735058.76	681742.32	24+65.89	40.77		S1-6,8
P19	735140.93	681787.77	25+07.05	-43.64		S1-2,4	P104	735053.86	681837.38	25+61.08	40.75		S1-6,8
P20	735136.64	681871.65	25+91.04	-43.69		S1-2,4	P105	735049.96	681912.82	26+36.62	40.75		S1-6,8
P21	735133.41	681932.69	26+52.16	-43.6		S1-2,4	P106	735044.75	682013.63	27+37.57	40.76		S1-6,8
P22	735127.99	682041.28	27+60.88	-43.8		S1-2,4	P107	735040.13	682103.19	28+27.25	40.75		S1-6,8
P23	735122.77	682139.90	28+59.64	-43.68		S1-2,4	P108	735035.65	682189.63	29+13.80	40.77		S1-6,8
P24	735118.52	682222.41	29+42.26	-43.69		S1-2,4	P109	735024.96	682270.04	29+94.66	47.28		S2-1,3
P25	735114.26	682303.81	30+23.78	-43.64		S1-2,4	P110	735027.74	682341.67	30+66.05	40.81		S2-1,3
P26	735108.85	682395.81	31+15.93	-42.99		S1-2,4	P111	735023.41	682426.13	31+50.62	40.78		S2-1,3
P27	735103.22	682484.18	32+04.47	-41.93		S1-2,4	P112	735018.75	682515.19	32+39.80	40.84		S2-1,3
P28	735097.66	682568.31	32+88.77	-40.72		S1-2,4	P113	735014.08	682606.81	33+31.54	40.77		S2-1,3
P29	735094.28	682653.02	33+73.55	-41.71		S1-2,4	P114	735008.52	682714.24	34+39.12	40.78		S2-1,3
P30	735088.74	682742.31	34+63.01	-40.79		S2-2,4	P115	735004.39	682795.00	35+19.98	40.73		S2-1,3
P31	735084.30	682828.13	35+48.94	-40.78		S2-2,4	P116	734999.02	682898.21	36+23.33	40.77		S2-1,3
P32	735087.99	682908.63	36+29.14	-48.62		S2-2,4	P117	734994.13	682992.13	37+17.37	40.81		S2-1,3
P33	735089.87	682960.04	36+80.39	-53.16		S2-2,4	P118	734989.75	683077.88	38+03.23	40.75		S2-1,3
P34	735073.25	683041.81	37+62.91	-40.77		S2-2,4	P119	734985.54	683159.50	38+84.97	40.74		S2-1,3
P35	735068.44	683137.13	38+58.34	-40.89		S2-2,4	P120	734979.67	683270.81	39+96.43	40.87		S2-1,3
P36	735066.03	683181.49	39+02.77	-40.77		S2-2,4	P121*	734974.31	683374.25	41+00.01	40.88		S2-1,3
P37	735060.12	683296.25	40+17.68	-40.8		S2-2,4	P122*	734970.24	683454.81	41+80.66	40.79		S2-1,3
P38*	735055.54	683384.07	41+05.62	-40.75		S2-2,4	P123	734959.82	683541.24	42+67.50	46.77		S2-1,3
P39*	735051.27	683468.07	41+89.74	-40.81		S2-2,4	P124*	734914.88	683567.85	14+09.71	-30.24	13TH ST.	S2-6,8
P40	735658.09	683557.41	42+78.70	-52.17		S2-2,4	P125	734952.52	683651.72	43+78.59	48.23		S2-6,8
P41*	735103.12	683570.72	15+98.14	-36.28		S2-2,4	P126*	734956.00	683722.37	44+48.79	40.74		S2-6,8
P42*	735198.87	683577.38	16+94.09	-33.8	13th ST.	S2-2,4	P127*	734951.18	683807.81	45+34.36	40.78		S2-6,8
P43*	735197.39	683635.24	16+95.13	24.07		S2-5,7	P128	734946.34	683893.50	46+20.19	40.83		S2-6,8
P44*	735094.81	683646.94	15+93.16	40.23		S2-5,7	P129	734941.66	683978.12	47+04.94	40.77		S2-6,8
P45	735048.88	683666.68	43+83.00	-49.00		S2-5,7	P130	734937.01	684061.87	47+88.82	40.75		S2-6,8
P46*	735036.19	683747.50	44+69.40	-40.73		S2-5,7	P131	734932.25	684146.77	48+73.85	40.76		S2-6,8
P47*	735031.17	683838.00	45+60.04	-40.76		S2-5,7	P132	734927.07	684239.31	49+66.53	40.76		S2-6,8
P48	735026.24	683925.58	46+47.76	-40.74		S2-5,7	P133	734920.64	684354.31	50+81.71	40.76		S2-6,8
P49	735020.81	684022.87	47+45.20	-40.75		S2-5,7	P134	734918.06	684400.12	51+27.60	40.78		S2-6,8
P50	735015.49	684118.19	48+40.66	-40.76		S2-5,7	P135	734913.35	684484.87	52+12.48	40.75		S2-6,8
P51	735011.89	684189.62	49+12.19	-41.16		S2-5,7	P136	734908.59	684570.00	52+97.74	40.75		S2-6,8
P52	735006.73	684275.31	49+98.03	-40.78		S2-5,7	P137	734903.43	684661.81	53+89.69	40.77		S2-6,8
P53	735000.46	684386.50	51+09.39	-40.74		S2-5,7	P138	734899.14	684738.62	54+66.63	40.76		S2-6,8
P54	734996.89	684451.87	51+74.87	-40.82		S2-5,7	P139	734894.31	684823.37	55+51.58	40.75		S2-6,8
P55	734992.01	684537.62	52+60.75	-40.74		S2-5,7	P140	734889.41	684908.37	56+36.72	40.76		S2-6,8
P56	734987.61	684616.63	53+39.88	-40.75		S2-5,7	P141	734884.11	685000.50	57+29.00	40.76		S3-2,4
P57	734982.04	684715.22	54+38.63	-40.7		S2-5,7	P142	734876.93	685108.75	58+37.49	41.71		S3-2,4
P58	734977.24	684801.18	55+24.67	-40.76		S2-5,7	P143	734873.15	685190.81	59+19.63	40.77		S3-2,4
P59	734973.30	684889.81	56+13.37	-41.92	HWY. 71B	S2-5,7	P144	734868.32	685275.12	60+04.08	40.75		S3-2,4
P172	734967.06	684978.31	57+02.08	-40.78		S3-1,3	P145	734863.42	685360.18	60+89.28	40.76		S3-2,4
P60	734962.11	685064.00	58+00.00	-40.75		S3-1,3	P146	734858.55	685444.81	61+74.04	40.75		S3-2,4
P61	734957.13	685151.81	58+75.87	-40.82		S3-1,3	P147	734853.64	685529.84	62+59.22	40.77		S3-2,4
P62	734952.93	685237.50	59+61.65	-41.56		S3-1,3	P148	734848.75	685615.04	63+44.55	40.76		S3-2,4
P63	734947.13	685324.31	60+48.66	-40.75		S3-1,3	P149	734843.17	685693.12	64+23.40	40.76		S3-2,4
P64	734941.91	685415.12	61+39.62	-40.75		S3-1,3	P150	734836.71	685783.37	65+13.88	40.78		S3-2,4
P65	734936.96	685501.27	62+25.91	-40.76		S3-1,3	P151	734830.46	685871.09	66+01.83	40.76		S3-2,4
P66	734932.19	685584.31	63+09.08	-40.77		S3-1,3	P152*	734820.19	685950.10	66+81.37	45.36		S3-2,4
P67	734926.34	685672.87	63+97.27	-40.74		S3-1,3	P153*	734806.40	686039.12	67+71.14	52.77		S3-2,4
P68	734921.67	685759.12	64+83.64	-42.25		S3-1,3	P154	734797.86	686126.87	68+59.28	55.02		S3-2,4
P69	734927.84	685845.70	65+69.55	-54.57		S3-1,3	P155	734761.13	686199.18	70+70.68	57.3		S3-2,4
P70*	734916.76	685942.81	66+67.21	-50.45		S3-1,3	P156*	734687.69	686205.93	71+43.91	47.36		S3-2,4
P71*	734913.66	686018.55	67+42.98	-52.75		S3-1,3	P157*	734601.81	686202.82	72+29.84	46.74		S3-2,4
P72	734908.93	686130.25	68+54.73	-56		S3-1,3	P158	734504.14	686200.90	73+27.50	44.4		S3-2,4
P73	734964.76	686185.55	16+17.84	-61.96		S3-1,3	P159	734406.50	686200.94	74+25.05	40.11		S3-2,4
P74*	735057.55	686190.61	17+10.11	-50.9		S3-1,3	P160	734327.31	686201.01	75+04.16	36.6		S3-5,7
P75*	735153.00	686183.24	18+05.49	-52.09		S3-1,3	P161	734355.00	686276.87	74+73.19	-37.98		S3-5,7
P76	735233.31	686192.68	18+81.90	-41.19		S3-6,8	P162	734430.81	686283.51	73+97.16	-41.32		S3-5,7
P77	735195.62	686274.58	18+44.41	40.81	8th ST.	S3-6,8	P163	734517.13	686291.13	73+10.60	-45.17		S3-5,7
P78*	735115.87	686282.34	17+62.36	44.42		S3-6,8	P164*	734601.63	686299.20	72+25.83	-49.56		S3-5,7
P79*	735024.12	686290.66	16+70.27	46.77		S3-6,8	P165*	734685.31	686312.29	71+41.65	-59		S3-5,7
P80	734934.19	686300.05	15+79.91	50.32		S3-6,8	P166	734767.75	686330.76	70+59.68	-73.97		S3-5,7
P81*	734895.12	686352.37	5+93.95	-55.3		S3-6,8	P167*	734793.74	686394.68	6+42.02	43.48		S3-5,7
P82*	734887.45	686441.12	6+82.99	-52.75		S3-6,8	P168*	734791.55	686480.18	7+27.50	40.75		S3-5,7
P83*	734880.37	686536.49	7+78.61	-51.16	WALNUT ST.	S3-6,8	P169*	734788.48	686543.87	7+91.26	40.15	WALNUT ST.	S3-5,7
P84*	734868.08	686634.49	8+77.16	-44.52		S3-6,8	P170*	734793.47	686637.68	8+84.63	29.78		S3-5,7
P85*	734858.84	686738.18	9+81.20	-41.26		S1-5,7	P171*	734789.28	686717.88	9+64.93	29.35		S3-5,7

NOTES:
1. *POLE WITH BANNER ARMS
2. LUMINARIES SHALL BE ORIENTED PERPENDICULAR TO ROADWAY.
3. COUNT OF 121 LED LUMINARE ASSEMBLY WITH 14' POLE AND FOUNDATION.
4. COUNT OF 51 LED LUMINARE ASSEMBLY WITH 14' POLE W/ BANNER ARMS AND FOUNDATION.

PROJECT No. 20-009 COMPLETE 100%

Engineering Elements, PLLC
2458 East Joyce Boulevard, Suite 1
Fayetteville, AR 72703
Phone: 479.695.1333, Fax: 479.251.7982

CERTIFICATE OF AUTHORITY — ENGINEERING ELEMENTS, PLLC — No. 1227 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 10054 — SHANE R. LANNING — 07/17/20

DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	168	320
		ILLUMINATION LAYOUT				

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	LAMP WATTS	VOLTS	LOAD (VA)	LAMP TEMP	MANU.	MODEL	MOUNTING
P#	14 ' POLE W/ LED	85	120	85	4000	HOLOPHANE	HLA-14-L4E-10-P07-ABG-BZ-R49A-WAE3P4040KMVOLTTMSBZGL3 SBRTBZAOFCPCLLPR3 OR EQUIVALENT	14' POLE

Worst Case - Conduit Fill Calculation

Conduit Run	Number of Cables	Cable Code	Cable Outer Diameter	Cable Area	Total Area	Conduit Size	Total Conduit Area	Total Number of Cables	Total Area of Cables	Available Area for Cables	Percent of Max
#10	5	a	0.021	0.0003	0.002						
#6	11	b	0.051	0.0020	0.022						
						3"PVC	6.44	16	0.023956	2.577	1%

CIRCUIT #	ROADWAY ILLUMINATION POLE	ELECTRICAL CONDUCTOR & IN-CONDUIT	CONCRETE PULL BOX
	QUANITY	APPROXIMATE LIN. FT.	EACH
S1-1,3	8	1350	8
S1-2,4	21	2000	21
S1-5,7	6	1000	6
S1-6,8	18	1550	18
S2-1,3	15	1300	15
S2-2,4	13	1200	13
S2-5,7	17	1700	17
S2-6,8	17	1500	17
S3-1,3	18	2220	18
S3-2,4	19	1700	19
S3-5,7	11	850	11
S3-6,8	9	1200	9
TOTALS:	172	17570	172

NOTES:
1. IN-CONDUIT SHALL BE 2" WITH 3#6, 1#10 GND
2. FIELD VERIFY ALL POLE INSTALLATION LOCATIONS FOR EXACT MEASUREMENTS.

VOLTAGE DROP CALCULATIONS

CIRCUIT #	VOLTAGE	Ø	SETS	AWG	VD%
S1-1,3	240	1	1	6	0.98%
S1-2,4	240	1	1	6	2.28%
S1-5,7	240	1	1	6	0.49%
S1-6,8	240	1	1	6	2.71%
S2-1,3	240	1	1	6	2.67%
S2-2,4	240	1	1	6	1.78%
S2-5,7	240	1	1	6	2.49%
S2-6,8	240	1	1	6	1.49%
S3-1,3	240	1	1	6	2.82%
S3-2,4	240	1	1	6	2.37%
S3-5,7	240	1	1	6	1.13%
S3-6,8	240	1	1	6	1.05%

NOTES:
1. NEC 230.31(B) STATES MINIMUM UNDERGROUND SERVICE CONDUCTOR SIZE TO BE 8 AWG

SIDEWALK ILLUMINATION STATISTICS

DESCRIPTION	AVERAGE (FC)	MAXIMUM (FC)	MINIMUM (FC)	AVG/MIN
STA. 11+90 TO STA. 17+00 LT.	1.7	2.6	0.8	2.1:1
STA. 17+00 TO STA. 43+26 LT.	1.8	3.8	0.6	3.0:1
STA. 43+26 TO STA. 69+84 LT.	1.9	2.9	0.6	3.2:1
STA. 68+84 TO STA. 10+21 (W. WALNUT ST) LT.	1.7	2.5	0.8	2.1:1
STA. 11+90 TO STA. 17+00 RT.	1.7	2.6	0.6	2.8:1
STA. 17+00 TO STA. 43+26 RT.	1.9	2.8	0.6	3.2:1
STA. 43+26 TO STA. 75+00 RT.	1.9	2.8	0.6	3.2:1
STA. 69+84 TO STA. 75+00 LT.	1.6	2.7	0.7	3.2:1

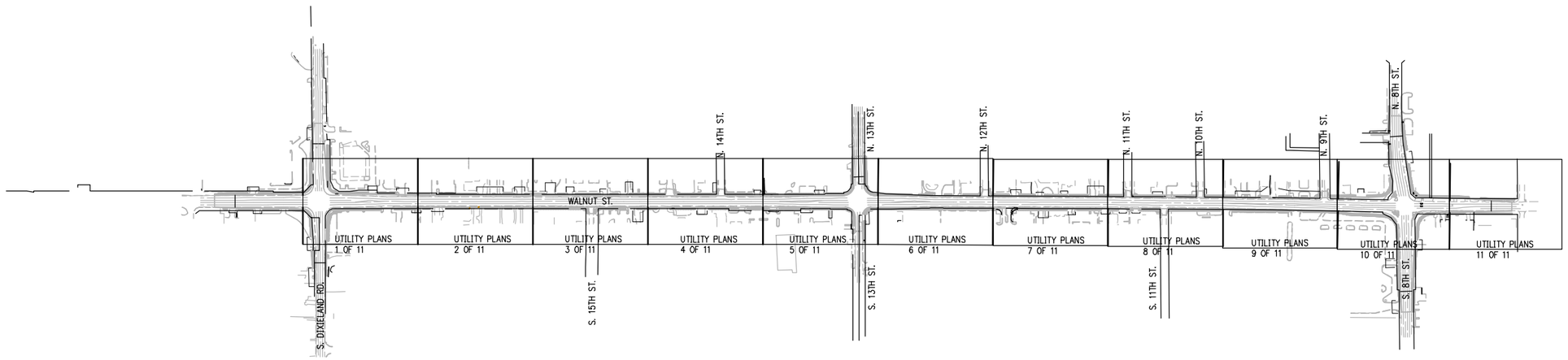
VERTICAL ILLUMINANCE STATISTICS

DEXCRIPTION	AVERAGE (FC)	MAXIMUM (FC)	MINIMUM (FC)	AVG/MIN (FC)
DIXIELAND AND 71B (WALNUT ST.) WEST CROSSWALK	0.9	1.2	0.4	2.3:1
DIXIELAND AND 71B (WALNUT ST.) SOUTH CROSSWALK	1	1.7	0.8	1.3:1
DIXIELAND AND 71B (WALNUT ST.) NORTH CROSSWALK	1.3	1.7	1	1.3:1
DIXIELAND AND 71B (WALNUT ST.) EAST CROSSWALK	1.1	1.6	0.7	1.6:2
13TH AND 71B (WALNUT ST.) WEST CROSSWALK	1.9	2.3	1.5	1.3:1
14th AND 71B (WALNUT ST.) SOUTH CROSSWALK	1.6	1.9	1.3	1.2:1
15th AND 71B (WALNUT ST.) NORTH CROSSWALK	1.6	2.3	1.3	1.2:1
16th AND 71B (WALNUT ST.) EAST CROSSWALK	1.7	1.9	1.4	1.2:1
8TH AND 71B (WALNUT ST.) WEST CROSSWALK	1.7	2.7	0.8	2.1:1
9th AND 71B (WALNUT ST.) SOUTH CROSSWALK	1.4	1.7	0.9	1.6:1
10th AND 71B (WALNUT ST.) NORTH CROSSWALK	1.7	2.1	1.9	1.7:1
11th AND 71B (WALNUT ST.) EAST CROSSWALK	1.7	2.2	0.7	2.4:1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	169	320
		UTILITY RELOCATION INDEX				

GRAPHIC SCALE IN FEET
0 150' 300' 600'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
12/4/23



LOCATION MAP

SUMMARY OF UTILITY RELOCATION QUANTITIES

SANITARY SEWER SCHEDULE

ITEM NO.	ITEM	QUANTITY	UNIT
SP & 202	REMOVAL AND DISPOSAL OF MANHOLES	7	EACH
SP & 610	MANHOLES ADJUSTED TO GRADE	1	EACH
SP	4" PVC SCH 40 SEWER SERVICE	1110	LIN. FT.
SP	6" PVC SDR-26 SEWER MAIN	155	LIN. FT.
SP	8" PVC SDR-26 SEWER MAIN	2225	LIN. FT.
SP	10" PVC SDR-26 SEWER MAIN	2645	LIN. FT.
SP	MANHOLE (4' DIAMETER)	30	EACH
SP	MANHOLE, EXTRA DEPTH, OVER 6' DEPTH (4' DIAMETER)	114	LIN. FT.
SP	16" STEEL CASING BY DIRECT BURY (SEWER MAIN)	96	LIN. FT.
SP	18" STEEL CASING BY DIRECT BURY (SEWER MAIN)	52	LIN. FT.
SP	TRENCH EXCAVATION (0-6 ft DEEP)	100	LIN. FT.
SP	TRENCH EXCAVATION (6-8 ft DEEP)	330	LIN. FT.
SP	TRENCH EXCAVATION (8-10 ft DEEP)	1350	LIN. FT.
SP	TRENCH EXCAVATION (10-12 ft DEEP)	2225	LIN. FT.
SP	TRENCH EXCAVATION (12-14 ft DEEP)	1020	LIN. FT.
SP	CLASS 7 BACKFILL FOR SEWER MAIN	10223	TON
SP	FILL ABANDONED SEWER MAINS WITH FLOWABLE FILL (ABANDON-IN-PLACE)	6796	LIN. FT.
SP	ABANDON EXISTING MANHOLE	13	EACH
SP	CORE EXISTING MANHOLE AND CONNECT SEWER MAIN	2	EACH
SP	TRENCH SAFETY FOR SEWER MAIN	1.00	LUMP SUM

WATERLINE SCHEDULE

ITEM NO.	ITEM	QUANTITY	UNIT
SP	8" DUCTILE IRON PIPE WATER MAIN, CLASS 50	7266	LIN. FT.
SP	6" X 6" TAPPING SLEEVE, 6" TAPPING VALVE WITH BOX	3	EACH
SP	8" X 8" TAPPING SLEEVE, 8" TAPPING VALVE WITH BOX	9	EACH
SP	12" X 12" TAPPING SLEEVE, 12" TAPPING VALVE WITH BOX	1	EACH
SP	8" GATE VALVE WITH BOX	24	EACH
SP	CUT AND CAP EXISTING WATER MAIN (4")	1	EACH
SP	CUT AND CAP EXISTING WATER MAIN (6")	2	EACH
SP	CUT AND CAP EXISTING WATER MAIN (8")	9	EACH
SP	16" STEEL CASING BY DIRECT BURY (WATER MAIN)	230	LIN. FT.
SP	ABANDON EXISTING WATER METER SETTING AND SERVICE LINE	32	EACH
SP	FIRE HYDRANT ASSEMBLY	18	EACH
SP	DUCTILE IRON FITTINGS	11965	POUND
SP	CONNECT TO EXISTING 2" WATER MAIN WITH 4"x2" COMPRESSION COUPLING	1	EACH
SP	CONNECT TO EXISTING 3" WATER MAIN WITH 4"x3" COMPRESSION COUPLING	1	EACH
SP	1" COMBINATION AIR RELEASE VALVE AND ENCLOSURE	1	EACH
SP	1" WATER SERVICE WITH SINGLE 5/8" METER SET (NEAR SIDE OF STREET)	45	EACH
SP	1" WATER SERVICE WITH SINGLE 5/8" METER SET (FAR SIDE OF STREET)	17	EACH
SP	1" WATER SERVICE WITH DOUBLE 5/8" METER SET (FAR SIDE OF STREET)	1	EACH
SP	CLASS 7 BACKFILL FOR WATER MAIN	3351	TON
SP	FILL ABANDONED WATER MAINS WITH FLOWABLE FILL (ABANDON-IN-PLACE)	1422	LIN. FT.
SP	REMOVAL AND DISPOSAL OF CAST IRON WATER MAIN	5325	LIN. FT.
SP	REMOVAL AND SALVAGE OF FIRE HYDRANT	12	EACH
SP	TRENCH SAFETY FOR WATER MAIN	1.00	LUMP SUM

ELECTRIC SCHEDULE

ITEM NO.	ITEM	QUANTITY	UNIT
SP	ELECTRIC SERVICE CONNECTION TO BUILDINGS	1.00	LS
SP	2 - 2" PVC SCH 40 ELECTRICAL CONDUITS	1352	LF
SP	2 - 3" PVC SCH 40 ELECTRICAL CONDUITS	551	LF
SP	2 - 4" PVC SCH 40 ELECTRICAL CONDUITS	4510	LF
SP	2 - 6" PVC SCH 40 ELECTRICAL CONDUITS	6525	LF
SP	8" CONCRETE PAD (96"X89") FOR 3-PHASE ELECTRIC TRANSFORMER	14	EA

MAINTENANCE OF TRAFFIC SCHEDULE

ITEM NO.	ITEM	QUANTITY	UNIT
SS & 604	TRAFFIC DRUMS	106	EA
SS & 604	SIGNS	203	SQ. FT.
SS & 604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	3,566	LIN. FT.
SS & 604	RELOCATING PRECAST CONCRETE BARRIER	6,998	LIN. FT.
* SS & 615	PAVEMENT REPAIR OVER CULVERTS (ASPHALT)	2,510	TONS
731	TEMPORARY IMPACT ATTENUATION BARRIER	2	EA
731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	2	EA
731	RELOCATING TEMPORARY IMPACT ATTENUATION BARRIER	6	EA

* NOTE: PAVEMENT REPAIR IS FOR WATER, SEWER AND ELECTRIC UTILITIES RATHER THAN CULVERTS AS INDICATED IN ITEM NAME

Sheet List Table

Sheet Number	Sheet Title
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170	LEGEND
171–181	W. WALNUT ST. UTILITY PLANS
182 – 194	SANITARY SEWER P&P
195 – 212	WATERLINE P&P
213	ROGERS SEWER DETAILS
214 – 215	ROGERS WATER DETAILS
216 – 219	AEP/SWEPCO PLANS
219A – 219K	UTILITIES MAINTENANCE OF TRAFFIC

DRAWING: G:\161\140\WALNUT\UTILITY\INFRASTRUCTURE\CIVIL\DWG\OVERALL UTILITY PLAN.DWG
LAYOUT: OVERALL UTILITY PLAN (2) | LAST SAVED: 12/4/2023 11:39:17 AM | LAST PLOTTED: 12/4/2023 11:39:37 AM
PLOTTED BY: BRIAN HANCOCK | PLOTTED: 1:1 | SCALE: 1:1 | APPROVED FOR PLOT: VOID ON HARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	170	320
		LEGEND				

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	

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 (BY OTHERS)	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 (BY OTHERS)	PROPERTY LINE
CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (BY OTHERS)	ROAD CENTERLINE

Sheet List Table

Sheet Number	Sheet Title
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189	SANITARY SEWER LINE 1&2 P&P
190	SANITARY SEWER LINE 3 P&P
191	SANITARY SEWER LINE 4&5 P&P
192	SANITARY SEWER LINE 6&7 P&P
193	SANITARY SEWER LINE 8 P&P
194	SANITARY SEWER LINE 9 P&P
195–199	WATERLINE 1 P&P
200–207	WATERLINE 2 P&P
208	WATERLINE 3 P&P
209	WATERLINE 4&5 P&P
210	WATERLINE 6&7 P&P
211	WATERLINE 8&9 P&P
212	WATERLINE 10&11 P&P
213	ROGERS SEWER DETAILS
214–215	ROGERS WATER DETAILS
216–219	AEP/SWEPCO PLANS

BASIS OF BEARING: ARKANSAS STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83 HORIZONTAL DATUM AND NAVD 88 VERTICAL DATUM DETERMINED BY 3–WIRE LEVELS USING NGS BENCHMARKS AND REQUIREMENTS.
REFER TO ARDOT JOB 090338
SURVEY CONTROL DETAILS 1 OF 3.

UTILITY CONTACTS

WATER & SANITARY SEWER
ROGERS WATER UTILITIES
601 S. 2ND ST.
ROGERS, AR 72756
PHONE: (479) 621–1142

PROJECT INFORMATION

SITE ENGINEER: CRAFTON TULL
901 N. 47TH ST., SUITE 200
ROGERS, AR 72756
479–636–4838

ROGERS WATER UTILITIES CONTACT: BRIAN SARTAIN P.E.
601 S. 2ND ST.
ROGERS, AR 72756
(479) 621–1142

COVER SHEET; GENERAL NOTES

1. 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.
2. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
3. THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF CRAFTON, TULL & ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CRAFTON, TULL & ASSOCIATES, INC.
4. CONTRACTOR SHALL NOT CAUSE ANY LONG–TERM INCONVENIENCE TO THE PUBLIC, ADJACENT PROPERTY OWNERS, PEDESTRIANS, ETC. DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
5. CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A DISCREPANCY OR INCONSISTENCY IS IDENTIFIED IN THE PLANS OR SPECIFICATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT WHICH ARE NECESSARY TO CONFORM TO OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
7. CRAFTON TULL & ASSOCIATES, INC. (CTA) HAS BEEN RETAINED BY THE OWNER FOR CONSTRUCTION ADMINISTRATION OR OBSERVATION SERVICES FOR THE WORK INDICATED ON THESE DRAWINGS. CTA HEREBY NOTIFIES ALL PARTIES INVOLVED THAT CRAFTON, TULL & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR THE INTERPRETATION, COORDINATION, OR ADMINISTRATION OF THESE DOCUMENTS AND/OR DEVIATIONS THEREOF. FURTHERMORE, CRAFTON, TULL & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR ANY EFFECTS THAT ANY CHANGES TO THESE DOCUMENTS MAY HAVE ON ANY RELATED TRADES, CONSTRUCTION SEQUENCES, OR OPERATION OF THE COMPLETED PROJECT EXCEPT AS SPECIFICALLY NOTED IN THE AGREEMENT BETWEEN CRAFTON, TULL & ASSOCIATES AND THE OWNER.
8. **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.
9. CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS. CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

Arkansas One Call 811
Know what's **below**.
Call before you dig.

DRAWING: G:\1401-60_WA\UTILITIES\INFRASTRUCTURE\CIVIL\DWG\LCOVER SHEET.DWG
LAYOUT: COVER SHEET | LAST SAVED: 12:29PM, 5/9/2023 4:27:36 PM
LAYOUT WITH PAGESETUP: ANSI D (22.00 X 34.00 INCHES) | PLOTTED BY: WALE ON HARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	171	320
		W. WALNUT ST. UTILITY PLANS 1 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

6" SANITARY SEWER SERVICE FROM NW CORNER (WEST FACE) OF BUILDING TIES INTO THE EXISTING 8" SANITARY SEWER TO THE NORTH, PER CVS AS-BUILTS. MANHOLE 02-201A (ROGERS GIS)

EXISTING GAS LINE PER CVS AS-BUILTS

POWER POLE INSTALLED BY AEP/SWEPCO

10" HPG (BY OTHERS)

EXISTING WATER 6" (FDC), 2", AND 6" SERVICES TO CVS TIES INTO NW CORNER (WEST FACE) OF BUILDING PER CVS AS-BUILTS

UGT (BY OTHERS)

UGTV (BY OTHERS)

02-00946-001
SAND PHARMACY ROGERS 10816 LLC
1749 W WALNUT ST

POWER POLE INSTALLED BY AEP/SWEPCO

EXIST. CURB INLET
TOP RIM=1323.26
E=1318.79

EXISTING FDC

EXISTING POWER POLE (TYP)

EXISTING FIRE HYDRANT (TYP)

UTILITY ESMT. VARIES

EXISTING 6" DEMARCATION VALVE

EXISTING 8"X8"X6" TEE

TIE TO EXISTING 2" WATERLINE WITH 8"X4" REDUCER, 4" 90° BEND AND 4"X2" COMPRESSION COUPLING. INSTALL 2" SHUTOFF VALVE.

CUT AND CAP WATERLINE

EXIST. JCT. BOX
TOP RIM=1324.58
E=1319.87

02-0094-000
SAND PHARMACY
ROGERS 10816 LLC
1749 W WALNUT ST

UGTV RISER (BY OTHERS) (TYP.)

EXIST. CURB INLET
TOP RIM=1323.20
E=1319.29

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

EXIST. U.E.

EXISTING OVERHEAD ELECTRIC

EXISTING 8" WATERLINE

EXISTING UNDERGROUND TV

EXISTING FIBER OPTIC

UGT CONDUIT DUCT (BY OTHERS)

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

CORNERSTONE PHARMACY

02-00945-001
ERV INVESTMENT GROUP LLC
1735 W WALNUT ST

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

GAS (BY OTHERS)

INSTALL NEW 1" WATER SERVICE

20' UTILITY ESMT.

R/W

UGTV

INSTALL NEW 1" WATER SERVICES

INSTALL 8"X8" TAPPING SLEEVE AND VALVE

EXISTING 8" WATERLINE

SEE VIEW 1-A THIS SHEET

EXISTING STORM SEWER SEE ROADWAY PLANS (TYP.)

EXISTING 6" WATERLINE

INSTALL 8"X8" TAPPING SLEEVE AND VALVE

CUT AND CAP WATERLINE

REMOVE EXISTING WATER SERVICE (TYP.)

ABANDON AND FILL EXISTING 8" WATERLINE

EXISTING 10" SANITARY SEWER

MH 1-1

EXIST. SS MH #277
TOP RIM=1324.72
FL=1317.94
(10"CLAY N & S 8"PVC SE)

WARNING! EXIST. GAS LINE

INSTALL 10" SANITARY SEWER

CONTRACTOR TO ADJUST CROSSINGS AS NEEDED

ADJUST EXIST. MH RIM TO FINISHED GRADE PER DETAILS

PLUG EXISTING 8" SANITARY SEWER

EXISTING 8" SANITARY SEWER ABANDON AND FILL

CAREFULLY SALVAGE EXIST. FIRE HYDRANT AND DELIVER TO RWU YARD

EXISTING SIGNAL POLE (TYP)

EXISTING 8" WATERLINE

INSTALL 8"X6" TAPPING SLEEVE AND VALVE FIRE HYDRANT ASSEMBLY

UGT (BY OTHERS)

INSTALL 6"X6" TAPPING SLEEVE AND VALVE 8"X6" REDUCER

10" HPG (BY OTHERS)

10" HPG (BY OTHERS)

PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINES

EXISTING GAS LINE PER CVS AS-BUILTS

MH 1-2

INSTALL 18" STEEL CASING

W. WALNUT ST. (HWY 71B)

10" SANITARY SEWER LINE 1

EXISTING UNDERGROUND TV

EXISTING R/W (TYP)

UGT (BY OTHERS)

WATERLINE 1

LIGHT POLE (TYP.)

20' EXIST. U.E.

ABANDON AND FILL PER DETAILS
EXIST. SS MH #207
TOP RIM=1326.57
FL=1320.07 (8"PVC E & SW)

EXIST. BOX INLET
TOP RIM=1326.66
E=1322.32 (NW 24" CMP)

ABANDON AND FILL PER DETAILS
EXIST. SS MH #206
TOP RIM=1326.98
FL=1319.85 (8"PVC NE & NW)

EXISTING LIGHT POLE (TYP)

20' UTILITY ESMT.

02-14664-000
JL ROGERS LLC
1722 W WALNUT ST

WALGREENS

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

S. DIXIELAND RD.

N. DIXIELAND RD.

MATCH LINE - 21+80.00

VIEW 1-A

UGT (BY OTHERS)

UTILITY EASEMENT (WIDTH VARIES)

INSTALL 45° BEND

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

WATERLINE 10

INSTALL 45° BEND

INSTALL 8"X8" TAPPING SLEEVE AND VALVE

CUT AND CAP

SIGNAL POLE (BY OTHERS TYP)

INSTALL 8"X8" TAPPING SLEEVE AND VALVE

UGTV (BY OTHERS)

EXIST. 10" SANITARY SEWER

CLOSE AND PLUG VALVE REMOVE WATERLINE

N. DIXIELAND RD.

17+00

REMOVE EXIST. SS MH #208
TOP RIM=1330.88
FL=1321.26 (8"PVC NE & W)

INSTALL 8"X8" TEE AND 8" GATE VALVE

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

CUT AND CAP WATERLINE

8"X8" TAPPING SLEEVE AND VALVE

EXISTING 8" WATERLINE

EXISTING POWER POLE (TYP)

EXIST. U.E.

EXIST. SERVICE (TO REMAIN)

EXISTING FIRE HYDRANT (TYP.)

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

EXIST. STORM MH
TOP RIM=1332.21
E=1327.43 (NW)
E=1327.48 (S)

NEW BALANCE

02-14665-000
DICKINSON, DAVID P & SUZANNE L
1720 W WALNUT ST

EXISTING STORM SEWER SEE ROADWAY PLANS (TYP.)

STORM SEWER SEE ROADWAY PLANS (TYP.)

UGTV (BY OTHERS)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

ABANDON AND FILL EXISTING 8" WATERLINE

1330

ABANDON AND FILL PER DETAILS
EXIST. SS MH #209
TOP RIM=1330.35
FL=1321.86 (6"CLAY E & 8"PVC SW)

4" SVC

ABANDON AND FILL EXISTING 6" SANITARY SEWER

20' UTILITY ESMT.

DRAWING C:\1610.60\WALNUT\UTILINFRASTRUCTURE\CIVIL\DWG\UTILNET PLANS.DWG
LAYOUT: W WALNUT ST UTILITY PLANS 1 OF 11 | 4/13/2023 7:03:31 AM | 6/6/2023 8:58:30 AM
LAST EDITED BY: MARK MAYNARD | XREFS: BASE.DWG, BASE PLAN FOOTPRINT (FLAT).DWG, BASE PLAN (HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	172	320
		W. WALNUT ST. UTILITY PLANS 2 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 21+80.00

02-00945-002
WAFFLE HOUSE INC.
1721 W WALNUT ST

02-04930-000
ELIAS PROPERTIES
ARKANSAS LLC
1717 W WALNUT ST

02-04929-000
JONES, MILLIE J &
WEBER, ZACHARY J
1709 W WALNUT ST

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

02-4928-000
FRISCO ON WALNUT
APARTMENTS LLC
WALNUT ST

02-04926-000
WEN INVESTMENT
GROUP LLC
1601 W WALNUT ST

HOLLYWOOD LIQUOR & PIZZA HUT
ANIMAL CLINIC
LABOR MAXX
CENTERLINE TATTOO

EXIST. U.E.
EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN
EXISTING 8" WATERLINE
CONNECT EXIST. SERVICES TO NEW MAIN
ABANDON AND FILL EXISTING 8" WATERLINE
20' UTILITY ESMT.
EXISTING LIGHT POLE (TYP)
INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
GAS (BY OTHERS)
EXISTING STORM SEWER TO BE REMOVED (BY OTHERS)
CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD
INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO
SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO
INSTALL 8" TAPPING SLEEVE AND VALVE ASSEMBLY
CUT AND CAP EXISTING WATERLINE
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINES
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
CUT AND CAP EXISTING WATERLINE
CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD
INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO
SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO
EXISTING POWER POLE (TYP)
REMOVE EXIST. WATER SERVICES
INSTALL NEW 1" WATER SERVICE
ABANDON AND FILL EXISTING 8" WATER
INSTALL 20 L.F. 16" STEEL CASING
EXISTING FIBER OPTIC
LIGHT POLE (TYP.)
INSTALL 8" WATERLINE
REMOVE EXISTING WATER SERVICE (TYP.)
INSTALL 18" STEEL CASING
EXISTING STORM SEWER
STORM SEWER SEE ROADWAY PLANS (TYP.)
SANITARY SEWER LINE 1
W. WALNUT ST. (HWY 71B)
EXISTING FIBER OPTIC
EXISTING UNDERGROUND TV
EXISTING OVERHEAD ELECTRIC
INSTALL 8"X6" REDUCER AND FH ASSEMBLY
INSTALL 8" DIP WATERLINE
WATERLINE 11
WATERLINE 4
WATERLINE 5
MH 1-3
MH 1-4
MH 1-5
ABANDON AND FILL EXISTING 8" WATERLINE
CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD
ABANDON AND FILL EXISTING 6" SANITARY SEWER
ABANDON AND FILL PER DETAILS
EXIST. SS MH #218
TOP RIM=1330.56
FL=1323.17 (6"CLAY E & W
REMOVE EXISTING 6" SANITARY SEWER
INSTALL 8" WATERLINE
INSTALL 20 L.F. 16" STEEL CASING
EXISTING STORM SEWER SEE ROADWAY PLANS (TYP.)
REMOVE EXIST. SS MH #221
TOP RIM=1332.00
FL=1325.08 (6"CLAY E & W)
INSTALL 8" TEE AND 8" GATE VALVE
EXISTING R/W (TYP)
INSTALL NEW 1" WATER SERVICE
4" SVC
REMOVE EXISTING WATER SERVICE (TYP.)
UGTV RISER (BY OTHERS) (TYP.)
UGT (BY OTHERS)
UGTV (BY OTHERS)
INSTALL FIRE HYDRANT ASSEMBLY
INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)
REMOVE EXISTING WATER SERVICE (TYP.)
SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
INSTALL 8" WATERLINE
INSTALL 8"X8" TEE AND 1-8" GATE VALVE
POWER PEDESTAL (TYP.) (BY OTHERS)
LIGHT POLE (TYP.)
INSTALL 8"X8" TEE & 8" GATE VALVE
UGT (BY OTHERS)
EXISTING POWER POLE (TYP)
GAS (BY OTHERS)
20' UTILITY ESMT.
SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
8" PVC
6"SS
8"W
2"G
UGTV
UGT
FO
OHE
SS
R/W
22+00
23+00
24+00
25+00
26+00
27+00
1331
1332

TWO STORY HOUSE
02-04335-000
LANDIS HOLDINGS LLC
1716 W WALNUT ST

ONE STORY HOUSE
02-04336-000
LANDIS HOLDINGS LLC
1712 W WALNUT ST

ONE STORY GARAGE
02-06007-000
CAMACHO, EVERARDO
1708 W WALNUT ST

ONE STORY HOUSE
02-06006-000
GAGLIARDO, TONY & LEAH
1608 W WALNUT ST

ONE STORY HOUSE
02-06005-000
GAGLIARDO, TONY & LEAH
1604 W WALNUT ST

ONE STORY HOUSE
02-06002-000
PRIMUS INVESTMENTS LLC
1500 W WALNUT ST

MATCH LINE – 27+40.00

DRAWING: C:\1610-60_WALNUT\UTILINFRASTRUCTURE\CIVIL\DWG\UTILITY PLANS.DWG
LAYOUT: W WALNUT 2 UTILITY PLANS 2 OF 11 | 6/7/2023 9:59:26 AM
LOGIN: JTOOTHMAN | XREFS: | ADDPOLL: | USER: JTOOTHMAN | TOOLTIPS: | PLOT: JTOOTHMAN

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	173	320
		W. WALNUT ST. UTILITY PLANS 3 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 27+40.00

02-04924-000
LONG WATSON LONG DEVELOPMENT LLC
1519 W WALNUT ST

DOLLAR GENERAL

02-04924-000
LONG WATSON LONG DEVELOPMENT LLC
1519 W WALNUT ST

02-04923-000
GALVAN, KARLA M
1505 W WALNUT ST

02-04922-000
GALVAN, KARLA M
1501 W WALNUT ST

02-04921-000
COTTON CREEK VENTURES LLC
1429 W WALNUT ST

ONE STORY STUCCO BLD. AARONS

02-00956-000
BERMAN, JOSEPH & LESLIE
1411 W WALNUT ST

ONE STORY BRICK

GALVAN'S

KASITA'S

ONE STORY

EXISTING LIGHT POLE (TYP)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

EXISTING OVERHEAD ELECTRIC

EXISTING UNDERGROUND TV

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

GAS (BY OTHERS)

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

STORM SEWER SEE ROADWAY PLANS (TYP.)

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

UGTV RISER (BY OTHERS) (TYP.)

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

INSTALL NEW 1" WATER SERVICE

EXISTING FIBER OPTIC

UGT (BY OTHERS)

UGTV (BY OTHERS)

20' UTILITY ESMT.

EXISTING R/W (TYP)

EXISTING POWER POLE (TYP)

STORM SEWER SEE ROADWAY PLANS (TYP.)

CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD

ABANDON AND FILL EXISTING 6" WATERLINE

EXISTING STORM SEWER

REMOVE EXISTING SERVICE

REMOVE EXISTING 8" WATERLINE

LIGHT POLE (TYP.)

INSTALL 10" SANITARY SEWER

ABANDON AND FILL EXISTING WATERLINE

SANITARY SEWER LINE 1

W. WALNUT ST. (HWY 71B)

MH 1-6

CONTRACTOR TO ADJUST CROSSING AS NEEDED

EXISTING UNDERGROUND TV

REMOVE EXISTING 2" WATERLINE

INSTALL 10" SANITARY SEWER

EXISTING STORM SEWER

REMOVE EXISTING 6" SANITARY SEWER

EXISTING UNDERGROUND TV

8" PVC

SANITARY SEWER LINE 9

EXISTING POWER POLE (TYP)

EXISTING R/W (TYP)

INSTALL 8" WATERLINE

LIGHT POLE (TYP.)

GAS (BY OTHERS)

UGT (BY OTHERS)

INSTALL 26 L.F. 16" STEEL CASING CENTERED ON STORM SEWER

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

REMOVE EXIST. SERVICE (TYP.)

INSTALL NEW 1" WATER SERVICE

REMOVE EXIST. SS MH #225
TOP RIM=1333.77
FL=1326.81 (6"CLAY W & E)
FL=1327.09 (6"CLAY SOUTH)

REMOVE 6" WATERLINE

REMOVE EXIST. 6" CLAY SANITARY

INSTALL 8"X8" TEE AND 8" GATE VALVE

MH 9-1

INSTALL 8"X6" TEE 8" GATE VALVE, AND FIRE HYDRANT ASSEMBLY

INSTALL NEW 1" WATER SERVICE

EXIST. CURB INLET
TOP RIM=1336.01
E=1331.57 (N)
E=1331.57 (E)
E=1331.58 (S)

EXIST. CURB INLET
TOP RIM=1335.03
E=1332.47 (W)

EXISTING SERVICES TO REMAIN. CONNECT TO NEW 8" WATERLINE

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY REROUTE AND CONNECT TO NEW MAIN

TIE TO EXISTING 3" WATERLINE WITH 8"X4" REDUCER, 4" 90° BEND AND 4"X3" COMPRESSION COUPLING

EXISTING SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY REROUTE AND CONNECT TO NEW MAIN

INSTALL NEW 1" WATER SERVICE

S. 15TH ST.

EXISTING R/W (TYP)

EXISTING 3" WATERLINE CONNECT TO NEW 8" WATERLINE

POWER POLE INSTALLED BY AEP/SWEPCO

EXISTING 6" SANITARY SEWER EXTEND TO NEW 10" SANITARY SEWER.

20' EXIST. U.E.

EXISTING R/W (TYP)

EXISTING LIGHT POLE (TYP)

PINK BAG

ONE STORY HOUSE

02-06002-000
PRIMUS INVESTMENTS LLC
1504 W WALNUT ST

02-06002-000
PRIMUS INVESTMENTS LLC
1500 W WALNUT ST

BENTON COUNTY OFFICES

02-15171-000
BENTON COUNTY ARKANSAS
1428 W WALNUT ST

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS. CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

MATCH LINE – 33+00.00

DRAWING: C:\1410\02_ARKANSAS\01_INFRASTRUCTURE\CIVIL\DWG\UTILITY PLANS.DWG
LAYOUT: W WALNUT ST UTILITY PLANS 3 OF 11 | LAST SAVED: 6/12/2023 4:39:28 PM | PLOTTED: 6/12/2023 4:39:28 PM
ACTIVE PROFILE: NEW TRANSPORTATION & ENGINEERING | XREF: ALL | DEPENDENT | NONE | CIVIL (HARD COPY CON.1)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	174	320

W. WALNUT ST. UTILITY PLANS 4 OF 11

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 33+00.00

EXISTING 6" WATERLINE TO REMAIN

POWER POLE INSTALLED BY AEP/SWEPCO

OHE (BY OTHERS)

02-00956-000
BERMAN, JOSEPH & LESLIE
1411 W WALNUT ST

ONE STORY SALON

BRICK

POWER POLE INSTALLED BY AEP/SWEPCO

PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

INSTALL 6"X6" TAPPING SLEEVE AND VALVE 8"X6" REDUCER

N. 14TH PL.

20' UTILITY ESMT.

INSTALL FIRE HYDRANT ASSEMBLY AND NEW 1" SERVICE

EXISTING OVERHEAD ELECTRIC

CUT AND CAP EXISTING WATERLINE

UGT (BY OTHERS)

INSTALL NEW 1" WATER SERVICE

02-00955-000
FITCH, DAVID
1405 W WALNUT ST

02-00959-000
LANDIS HOLDINGS LLC
1401 W WALNUT ST

ONE STORY OPTICAL

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

UGTV (BY OTHERS)

UGTV RISER (BY OTHERS) (TYP.)

POWER POLE INSTALLED BY AEP/SWEPCO

N. 14TH ST.

02-05896-001
STARR HICKMAN RENTALS LLC
1325 W WALNUT ST

ONE STORY

EXIST. 3'X3' GRATED INLET
TOP RIM=1338.97
℄=1336.61
℄=1336.64 (S)

GAS (BY OTHERS)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

EXISTING POWER POLE (TYP)

REMOVE EXIST. SS MH #234
TOP RIM=1341.57
FL=1338.64 (6"DI E & S 4"PVC WEST)

EXISTING FIBER OPTIC

EXISTING UNDERGROUND TV

EXISTING STORM SEWER SEE ROADWAY PLANS (TYP.)

INSTALL 16" STEEL CASING

REMOVE EXIST. SERVICE (TYP.)

EXISTING R/W (TYP)

REMOVE EXISTING 8" WATERLINE

CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD

ABANDON AND FILL EXISTING 8" WATERLINE

INSTALL NEW 1" WATER SERVICE

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE 6" SANITARY SEWER

W. WALNUT ST. (HWY 71B)

SANITARY SEWER LINE 1

INSTALL 10" SANITARY SEWER

MH 1-7

MH 1-8

WATERLINE 6

REMOVE EXISTING 6" SANITARY SEWER

REMOVE EXIST. SS MH #231
TOP RIM=1335.42
FL=1328.85 (6"CLAY E & W)

EXISTING UNDERGROUND TV

REMOVE EXISTING 2" WATERLINE

ABANDON AND FILL PER DETAILS
EXIST. SS MH #232
TOP RIM=1340.84
FL=1334.19 (6"CLAY W & E)

EXISTING OVERHEAD ELECTRIC

LIGHT POLE (TYP.)

WATERLINE 1

INSTALL NEW 1" WATER SERVICE

INSTALL 8" WATERLINE

EXISTING POWER POLE (TYP)

EXIST. HEADWALL
℄=1331.26

INSTALL 20 L.F. 16" STEEL CASING

INSTALL 8"X8" TEE & 2-8" GATE VALVES

EXISTING UNDERGROUND TV

GAS (BY OTHERS)

UGT (BY OTHERS)

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

EXISTING STORM SEWER

EXIST. 3'X3' GRATED INLET
TOP RIM=1339.71
℄=1336.86
℄=1337.10 (N)

ABANDON AND FILL PER DETAILS
EXIST. SS MH #233
TOP RIM=1341.52
FL=1334.36 (6"CLAY E & W)

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

THE QUARTER SHOPPING CENTER

02-04306-000
JAS INVESTMENTS INC
1400 W WALNUT ST
ROGERS, AR 72756

MEINEKE

02-04308-000
MEINEKE OF NORTHWEST ARKANSAS INC
1418 W WALNUT ST

1ST EMPLOYMENT

02-04305-000
BF COMMERCIAL HOLDINGS LLC
1320 W WALNUT ST

02-04304-000
ALDI INC
1316 W WALNUT ST
ROGERS, AR 72756

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

NOTE:
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MATCH LINE – 38+60.00

DRAWING: G:\1610\400_INFRASTRUCTURE\CIVIL\SHEETS\LAYOUT PLANS.DWG
LAYOUT: W WALNUT UTILITY PLANS 4 OF 11 | LAST SAVED: 6/7/2023 3:50:26 PM
USER: CHRISTOPHER WARNOCK | XREFS: ALL XREFS ATTACHED | PLOTTED BY: CHRIS EDWARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	175	320
		W. WALNUT ST. UTILITY PLANS 5 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE - 38+60.00

02-00961-000
CS COMPANY
1305-1311 W WALNUT ST

02-00960-000
ALMARAZ SPE LLC
1303 W WALNUT ST

02-00960-001
BARAJAK LLC
W WALNUT ST & N 13TH ST

EXIST. SS MH #292
TOP RIM=1340.80
FL=1334.51 (8"CLAY N & S 6"CLAY EAST)

EXIST. CURB INLET
TOP RIM=1340.70
E=1337.11 (N)
E=1337.13 (SE)

EXIST. CURB INLET
TOP RIM=1340.71
E=1337.57 (NW)
E=1337.57 (N)

POWER POLE INSTALLED BY AEP/SWEPCO

EXISTING FIRE HYDRANT

EXISTING 8" SANITARY SEWER

EXISTING 8" WATERLINE

INSTALL 8"X8" TAPPING SLEEVE AND VALVE PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

CUT AND CAP EXISTING WATERLINE

INSTALL 8"X8" TEE 8" GATE VALVE

REMOVE EXISTING 8" WATERLINE

N. 13TH ST.

EXISTING R/W (TYP)

INSTALL 20 L.F. 16" STEEL CASING CENTERED ON SANITARY SEWER

INSTALL 8" WATERLINE

WATERLINE 2

EXISTING 8" WATERLINE

CHURCH'S CHICKEN

MH 5-1

INSTALL 8"X8" TAPPING SLEEVE AND VALVE PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

CUT AND CAP WATERLINE

INSTALL 8"X8" TEE

REMOVE EXIST. WATER SERVICES

INSTALL 8"X6" TEE 2-8" GATE VALVES AND FIRE HYDRANT ASSEMBLY

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

UGTV RISER (BY OTHERS) (TYP.)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

20' UTILITY ESMT.

INSTALL NEW 1" WATER SERVICES

LIGHT POLE (TYP.)

EXISTING POWER POLE (TYP)

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXISTING 8" WATERLINE

EXISTING UNDERGROUND TV

EXISTING FIBER OPTIC

GAS (BY OTHERS)

EXISTING OVERHEAD ELECTRIC

EXISTING SIGNAL POLE (TYP)

UGTV (BY OTHERS)

UGT (BY OTHERS)

REMOVE EXIST. 8" LINE AND INSTALL NEW 8" PVC

ADJUST EXIST. SS MH RIM TO FINISHED GRADE PER DETAILS

PLUG AND ABANDON EXIST. 8" SEWER

EXISTING STORM SEWER

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXISTING 6" WATERLINE

INSTALL 8" SANITARY SEWER

INSTALL STEEL CASING

MH 1-9

MH 1-10

MH 1-11

WATERLINE 7

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

W. WALNUT ST. (HWY 71B)

ABANDON AND FILL EXISTING 8" WATERLINE

EXISTING 6" SANITARY SEWER

CUT AND CAP EXISTING WATERLINE

REMOVE EXIST. WATER SERVICE (TYP.)

EXISTING UNDERGROUND TV

EXIST. SS MH #284
TOP RIM=1342.89
FL=1336.98 (8"CLAY N S & SE 6"PVC E)

EXISTING STORM SEWER

EXISTING 6" SANITARY SEWER

WATERLINE 1

INSTALL 8"X8" TAPPING SLEEVE & VALVE

INSTALL 8"X8" TEE WITH 8" GATE VALVE

INSTALL NEW 1" WATER SERVICE

EXIST. R/W

EXIST. FH TO REMAIN

PROPOSED R/W PER "JIFFY TRIP" PLANS

REMOVE EXIST. SS MH #279
TOP RIM=1343.07
FL=1335.79 (6"PVC WEST)

UGT (BY OTHERS)

PROPOSED R/W PER "JIFFY TRIP" PLANS

EXISTING SIGNAL POLE (TYP)

SIGNAL POLE SEE SIGNAL PLANS

EXIST. WALL

CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD

6' UTILITY ESMT.

02-04304-000
ALDI INC
1316 W WALNUT ST

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

02-04303-000
HAMMER WILLIAMS COMPANY
1300 W WALNUT ST

JACKSON HEWITT

PLUG EXISTING VALVE

8" SVC

WATERLINE 9

INSTALL NEW 1" WATER SERVICE 8" GATE VALVE WITH ANCHOR VALVE, 6"X8" REDUCER AND FH ASSEMBLY

INSTALL 12"X12" TAPPING SLEEVE AND VALVE, 12"X8" REDUCER

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY REROUTE AND CONNECT TO EXIST. MAIN WITH 8" SVC

EXISTING 3" WATERLINE

EXISTING R/W (TYP)

02-04297-000
HAMMER WILLIAMS CO
1310 W WALNUT ST

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY REROUTE AND CONNECT TO NEW MAIN

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

EXIST. SERVICE (TO REMAIN)

UGTV (BY OTHERS)

EXISTING 8" SANITARY SEWER

EXISTING 12" WATERLINE

STORM SEWER SEE ROADWAY PLANS (TYP.)

EXISTING 6" WATERLINE

ALDI
ONE STORY

MATCH LINE - 44+20.00

39+00 40+00 41+00 42+00 43+00 44+00

DRAWING C:\1610.60_WALNUT\UTIL\INFRASTRUCTURE\CIVIL\DWG\UTILITY PLANS.DWG
LAYOUT: W WALNUT 5 OF 11 PLAN 1:40 SCALE: 1"=40' 6/7/2023 12:30:24 PM
XREF: C:\1610.60_WALNUT\UTIL\INFRASTRUCTURE\CIVIL\DWG\SURFACE.DWG
XREF: C:\1610.60_WALNUT\UTIL\INFRASTRUCTURE\CIVIL\DWG\SURFACE-TIN.DWG

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	176	320
		W. WALNUT ST. UTILITY PLANS 6 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE - 44+20.00

WAFFLE HUT

WESTERN CREDIT UNION

02-01243-001
RPC LAND HOLDINGS LLC
1233 W WALNUT ST

02-01243-000
WESTERN FEDERAL CREDIT UNION
1205 W WALNUT ST

02-01247-000
TJK PROPERTIES LLC
104& 110 N 12TH ST

EXISTING SANITARY SEWER TO REMAIN

20' UTILITY ESMT.

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

UGTV (BY OTHERS)

EXIST. SS MH #245
TOP RIM=1343.89
FL=1338.87 (6"PVC N & E)

INSTALL 20 L.F. 16" STEEL CASING CENTERED ON SANITARY SEWER

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

INSTALL 1" NEW WATER SERVICE

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

WATERLINE 2

EXIST. SS MH #522
TOP RIM=1343.92
FL=1339.90 (6"PVC E & W)

INSTALL 1" WATER SERVICES

INSTALL 1" NEW WATER SERVICE

INSTALL NEW 1" WATER SERVICE

R/W

45+00 46+00 47+00 48+00 49+00

UGTV UGT 6"SS FO OHE

LIGHT POLE (TYP.)

REMOVE EXISTING 8" WATERLINE

REMOVE EXISTING WATER SERVICE (TYP.)

STORM SEWER SEE ROADWAY PLANS (TYP.)

EXISTING OVERHEAD ELECTRIC
EXISTING FIBER OPTIC
EXISTING UNDERGROUND TV

EXISTING R/W (TYP)

REMOVE EXISTING WATER SERVICES
REMOVE EXISTING 8" WATERLINE

1344

ONE STORY

EXISTING 6" SANITARY SEWER TO REMAIN

EXISTING 2" WATERLINE TO REMAIN

TIE TO EXIST. 2" WATERLINE WITH 8"X4" REDUCER, 4" 90° BEND AND 4"X2" COMPRESSION COUPLING

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

PLUG

ABANDON AND FILL EXIST. 6" SANITARY SEWER

REMOVE EXIST. 2" WATERLINE

SANITARY SEWER LINE 6

INSTALL 6" SANITARY SEWER

INSTALL 25 L.F. 16" STEEL CASING CENTERED ON WATER LINE

N. 12TH STREET

6"SS 2"W

MH 6-3 MH 6-2 MH 6-1

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND REROUTE TO MH 6-3

INSTALL 1" NEW WATER SERVICE

ABANDON AND FILL EXIST. 6" SANITARY SEWER

CAREFULLY SALVAGE FIRE HYDRANT AND DELIVER TO RWU YARD

8"X8" TEE
8" GATE VALVE

SANITARY SEWER LINE 1

MH 1-12

SANITARY SEWER LINE 2

EXISTING STORM SEWER

W. WALNUT ST. (HWY 71B)

ABANDON AND FILL EXISTING 6" SANITARY SEWER

INSTALL 8" SANITARY SEWER

ABANDON AND FILL EXISTING 8" SANITARY SEWER

EXISTING R/W (TYP)

EXISTING UNDERGROUND TV
EXISTING OVERHEAD ELECTRIC

UGT (BY OTHERS)

ABANDON AND FILL EXIST. SS MH #283 TOP RIM=1342.93 FL=1338.22 (6"PVC E & W 8"CLAY SW)

REMOVE EXIST. 6" SEWER AND INSTALL 6" PVC TO MH 1-12

REMOVE EXIST. SS MH #282 TOP RIM=1343.01 FL=1338.42 (6"PVC E & W 6"CLAY S)

ABANDON AND FILL EXIST. SS MH #280 TOP RIM=1344.83 FL=1339.29 (6"PVC E & W 6"CLAY NE)

EXIST. CURB INLET
TOP RIM=1344.19
℄=1340.36 (W)
℄=1340.28 (S)
℄=1340.37 (E)

EXIST. STORM MH
TOP RIM=1345.27
℄=1341.15 (W)
℄=1341.15 (E)

6' UTILITY ESMT

3' UTILITY ESMT

EXIST. WALL

UGTV RISER (BY OTHERS) (TYP.)

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

EXISTING 3" WATERLINE

3"W

CENTER FOR NONPROFITS

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

02-22453-000
JONES TRUST - MATTHEWS,
CAMPBELL & RHOADS
1200 W WALNUT ST
ROGERS, AR 72756

02-22453-000
JONES TRUST - MATTHEWS,
CAMPBELL & RHOADS
1200 W WALNUT ST
ROGERS, AR 72756

EXIST. 2'X2' GRATED INLET
TOP RIM=1344.73
℄=1341.89 (N)
℄=1341.75 (W)
℄=1341.86 (S)

EXIST. 2'X2' GRATED INLET
TOP RIM=1345.50
℄=1340.85 (N)
℄=1340.84 (S)

27' EXIST. WATERLINE ESMT.

EXIST. STORM MH
TOP RIM=1346.04
℄=1342.47 (N)
℄=1342.51 (W)
℄=1342.52 (S)

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

MATCH LINE - 49+80.00

DRAWING G:\1401-ROLLINS\UTILITIES\STRUCTURES ONLY\DWG\UTILITY PLANS.DWG
LAYOUT: W WALNUT ST UTILITY PLANS 6 OF 11 (1401ST-UTSH1 6P) 6/12/2023 2:39:01 PM
LAST EDITED BY: BRIAN MCCREESH ON 6/12/2023 2:39:01 PM (LAST EDITED BY: KARI DAVIS ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	177	320
		W. WALNUT ST. UTILITY PLANS 7 OF 11				

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 49+80.00

02-01253-000
BANK OF AMERICA
1151 W WALNUT ST

02-01254-000
GRAY, THOMAS & ANN
1149 W WALNUT ST

02-01255-000
PVS PROPERTIES LLC
1043 W WALNUT ST

02-01256-000
MCCARTY LIVING TRUST, ALTO & CAROLYN
1041 W WALNUT ST

02-01257-000
WHITAKER, LARRY & SWANK FAMILY REVOCABLE TRUST-VERNON R & KITTY
1039 W WALNUT ST

02-01258-000
GARRETT TIRE CO OF ROGERS INC
1037 W WALNUT ST

BANK OF AMERICA
PURE VITAMINS AND VITTLES
MR B'S STEAKHOUSE
AL MCCARTY'S JEWELRY
ONE STORY
INSURANCE

ABANDON AND FILL EXIST. SS MH #248
TOP RIM=1344.55
FL=1341.73 (6"CLAY N & W)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

UGT (BY OTHERS)

20' UTILITY ESMT.

55' UTILITY ESMT.

EXIST. 6" SANITARY SERVICE APPROXIMATE LOCATION AND DEPTH CONTRACTOR TO FIELD VERIFY

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

INSTALL NEW 1" WATER SERVICE

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

EXISTING OVERHEAD ELECTRIC
EXISTING FIBER OPTIC
EXISTING UNDERGROUND TV

EXIST. 6" SANITARY SERVICE APPROXIMATE LOCATION AND DEPTH CONTRACTOR TO FIELD VERIFY

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

CONNECT EXIST. SANITARY SERVICE TO MH 7-1

INSTALL 8"X6" TEE FIRE HYDRANT ASSEMBLY AND 8" GATE VALVE

INSTALL NEW 1" WATER SERVICE

UGTV RISER (BY OTHERS) (TYP.)

50+00 51+00 52+00 53+00 54+00 55+00

R/W

INSTALL 8" WATERLINE

LIGHT POLE (TYP.)

EXISTING R/W (TYP)

REMOVE EXISTING WATER SERVICE (TYP.)

REMOVE EXIST. 6" CLAY SANITARY SERVICE

REMOVE EXISTING 8" WATERLINE

ABANDON AND FILL EXIST. SS MH #286
TOP RIM=1350.56
FL=1344.65 (8"PVC EAST)

EXISTING 8" SANITARY SEWER

MH 1-13

ABANDON AND FILL EXIST. SS MH #281
TOP RIM=1345.91
FL=1339.79 (6"PVC E & W)

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXISTING WATERLINE

SANITARY SEWER LINE 1

ABANDON AND FILL 6" SANITARY SEWER

MH 1-14

W. WALNUT ST. (HWY 71B)

CUT AND PLUG EXISTING 6" SANITARY SEWER

EXIST. SS MH #285
TOP RIM=1350.31
FL=1344.11 (6"DI S 6"PVC W)
FL=1344.67 (6"CLAY NE)

EXISTING OVERHEAD ELECTRIC

EXISTING R/W (TYP)

EXISTING UNDERGROUND TV
UGT (BY OTHERS)

INSTALL NEW 1" WATER SERVICE

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

EXIST. STORM MH
TOP RIM=1346.59
℄=1342.29 (W)
℄=1342.41 (S)

EXIST. 2'X2' GRATED INLET
TOP RIM=1347.30
℄=1344.01 (SW)

EXIST. CURB INLET
TOP RIM=1348.39
℄=1343.32 (NE)
℄=1343.32 (N)

ADJUST EXIST. SS MH RIM TO FINISHED GRADE PER DETAILS CONNECT TO MH 1-14 WITH 8" PVC

EXISTING 6" SANITARY SEWER

20' EXIST. SEWER ESMT. PER PLAT 1-117

POWER POLE INSTALLED BY AEP/SWEPCO

ABUNDANT TREASURES FLEA MARKET

02-01309-000
SMEK LLC
1112 W. WALNUT ST

02-01308-000
LJ REMAINDER LLC
1036 W. WALNUT ST

02-01314-000
SMEK LLC
1140 W WALNUT ST

02-01316-000
JONES TRUST - MATTHEWS, CAMPBELL & RHOADS
S 12TH ST

MATCH LINE – 55+40.00

DRAWING: C:\1610-60_WALNUT\UTIL\INFRASTRUCTURE\CIVIL\DWG\UTILITY PLAN.DWG
LAYOUT: W WALNUT 7 (UTILITY PLANS 7 OF 11) 6/7/2023 12:29:14 PM
XREFS: TEMPLATE.DWT, 1610-60_WALNUT_PLAN_SHEET.DWT, 1610-60_WALNUT_PROFILE_SHEET.DWT, AEP_SWEPCO_ELECTRIC_PLAN.DWG, TOPO.DWG, TOPO (HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	178	320
		W. WALNUT ST. UTILITY PLANS 8 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 55+40.00

EXIST. SS MH #200238
TOP RIM=1345.11
FL=1836.96 (CL SSMH)
FL=1839.02 (6"PVC S)

REMOVE EXIST. 6" SEWER

CONNECT EXIST. SEWER SERVICE TO NEW 8" SEWER WITH 6" PVC

20' UTILITY ESMT.

MH 8-1

EXIST. SS MH 08-13

EXIST. SS MH 08-13A

EXISTING SANITARY SEWER

02-01285-000
G & N HUBER COMMERCIAL LLC
1001 W WALNUT ST
ROGERS, AR 72756

02-01284-000
BURTON INVESTMENT PROPERTIES LLC
1029 W WALNUT ST
ROGERS, AR 72756

02-01283-000
ROSE, ANGELA J
1031 W WALNUT ST
ROGERS, AR 72756

02-05997-000
ANSLEY INVESTMENT LLC
931 W WALNUT ST
ROGERS, AR 72756

02-01259-001
BUI, MAINH DIEM
1035 W WALNUT ST

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO MH 1-15

EXISTING 6" WATERLINE TO REMAIN

POWER POLE INSTALLED BY AEP/SWEPCO

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN

EXISTING 3" WATERLINE (ABANDONED)

6"X6" TAPPING SLEEVE AND VALVE, 8"X6" REDUCER. PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

INSTALL NEW 1" WATER SERVICE

CUT AND CAP EXISTING WATERLINE

INSTALL 8"X8" TEE

INSTALL NEW 1" WATER SERVICE

UGTV RISER (BY OTHERS) (TYP.)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

INSTALL NEW 1" WATER SERVICE

UGTV (BY OTHERS)

INSTALL NEW 1" WATER SERVICE

INSTALL 8" WATERLINE

UGT (BY OTHERS)

INSTALL 8"X8" TEE
8" GATE VALVE

REMOVE 3" WATERLINE

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE PLUG AND CONNECT TO EXIST. 8" VALVE

INSTALL NEW 1" WATER SERVICE

REMOVE EXISTING WATER SERVICE (TYP.)

EXISTING UNDERGROUND TV

EXISTING OVERHEAD ELECTRIC

EXISTING FIBER OPTIC

REMOVE EXISTING 6" WATERLINE

EXISTING R/W (TYP)

EXISTING OVERHEAD ELECTRIC

REMOVE EXISTING 8" WATERLINE

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

INSTALL 8"X6" TEE
8" GATE VALVE
FIRE HYDRANT ASSEMBLY

ABANDON AND FILL
EXIST. SS MH #287
TOP RIM=1347.81
FL=1341.66 (8"PVC E & W)

EXIST. CURB INLET
TOP RIM=1345.61
E=1342.99 (E)

CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD

EXIST. CURB INLET
TOP RIM=1344.61
E=1341.97 (E)
E=1342.06 (W)

EXISTING R/W (TYP)

EXISTING OVERHEAD ELECTRIC

EXISTING 24" WATERLINE

MH 8-3

MH 8-2

MH 1-15

ABANDON AND FILL
EXISTING 8" SANITARY SEWER

EXISTING OVERHEAD ELECTRIC

EXIST. 2.5'X1.5' GRATED INLET
TOP RIM=1349.56
E=1346.73 (E 24" X40" CMP)

EXIST. SS MH #200237
TOP RIM=1347.82
FL=1341.75 (8"PVC E & W)

STORM SEWER SEE ROADWAY PLANS (TYP.)

ABANDON AND FILL
EXISTING 8" SANITARY SEWER

EXISTING OVERHEAD ELECTRIC

EXIST. CURB INLET
TOP RIM=1348.40
E=1345.36 (E)
E=1345.64 (SW 18" CMP)

EXIST. CURB INLET
TOP RIM=1347.37
E=1344.32 (E)
E=1344.52 (W)

EXIST. CURB INLET
TOP RIM=1345.54
E=1342.78 (E)
E=1342.85 (W)

LIGHT POLE (TYP.)

EXISTING R/W (TYP)

INSTALL NEW 1" WATER SERVICE

INSTALL NEW 1" WATER SERVICE

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO MH 8-2

EXIST. 2.5'X1.5' GRATED INLET
TOP RIM=1349.26
E=1345.99 (NE 18" CMP)
E=1346.00 (W 24"X40" CMP)

POWER POLE INSTALLED BY AEP/SWEPCO

02-22779-000
WAL-MART STORES INC 05-9071
922 W WALNUT ST

02-02373-000
RETAIL BUILDINGS INC
1102 W WALNUT ST

02-01308-000
LJ REMAINDER LLC
1036 W. WALNUT ST

20' EXIST. U.E.

W. WALNUT ST. (HWY 71B)

N. 11TH ST.

S. 11TH ST.

N. 10TH ST.

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

MATCH LINE – 61+00.00

DRAWING: C:\1410-02-24\AUTOCAD\INFRASTRUCTURE\DRAWINGS\UTILITY PLANS.DWG
LAYOUT: W WALNUT UTILITY PLANS 8 OF 11 | LAST SAVED: 7/28/2023 12:20:24 PM
LAST PLOTTED: 7/28/2023 12:20:36 PM | PLOTTED BY: TIM PEARSON | PLOT STAMP BOARD COPY ONLY

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	179	320
		W. WALNUT ST. UTILITY PLANS 9 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 61+00.00

EXIST. DRAINAGE AND UTILITY ESMT. WIDTH VARIES

EXIST. SS MH (16-43)

EXIST. SS MH #265 (16-44)
TOP RIM=1342.61
FL=1328.85 (18"DI S 24"PVC NW)
FL=1329.69 (6"PVC NE)

EXIST. SS MH 08-138

REROUTE EXIST. SANITARY SERVICE AND CONNECT TO EXIST. MH 16-43

EXIST. SANITARY SERVICE APPROXIMATE LOCATION

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

EXISTING 10" SANITARY SEWER

EXISTING 4" WATERLINE (ABANDONED)

02-05998-000
ESCH TRUST, PETER A JR
W WALNUT ST

02-05999-000
BENTON PROPERTY INC.
923 W WALNUT ST

02-06000-000
VALLEY BROS REALTY LLC
919 W WALNUT ST

RADIO SHACK

02-06001-000
GOFF REVOCABLE TRUST, DC
917 W WALNUT ST

02-08691-000
MCDONALDS CORP #3700
903 W WALNUT ST

MCDONALDS

N. 9TH ST.

POWER POLE INSTALLED BY AEP/SWEPCO

REMOVE EXIST. 1" SVC CORP AND INSTALL REPAIR CLAMP AFTER NEW SERVICE IS CONNECTED (SEE SHEET 180)

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER TO BE SET BY AEP/SWEPCO

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD

EXIST. OUTLET
℄=1339.10

AQUEOUS VAPOR

SONIC

INSTALL 8"X6" TEE
8" GATE VALVE
FIRE HYDRANT ASSEMBLY

INSTALL NEW 1" WATER SERVICE

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

INSTALL NEW 1" WATER SERVICE

REMOVE PLUG AND CONNECT TO 8" VALVE

INSTALL 8"x8" TEE
8" GATE VALVE

20' UTILITY ESMT.

R/W

LIGHT POLE (TYP.)

61+00

62+00

63+00

64+00

65+00

66+00

UGTV

EXIST. HEADWALL
℄=1338.33

INSTALL 8" WATERLINE

STORM SEWER SEE ROADWAY PLANS (TYP.)

UGTV (BY OTHERS)

UGTV RISER (BY OTHERS) (TYP.)

ABANDON EXIST. 1" WATER SERVICE LINE

WATERLINE 2

INSTALL NEW 1" WATER SERVICE

EXISTING OVERHEAD ELECTRIC

EXISTING R/W (TYP)

EXISTING UNDERGROUND TV

EXISTING FIBER OPTIC

EXIST. CURB INLET
TOP RIM=1343.26
℄=1339.98 (E)
℄=1339.98 (W)

REMOVE EXISTING 8" WATERLINE

REMOVE EXISTING WATER SERVICE (TYP.)

INSTALL NEW 1" WATER SERVICE

STORM SEWER SEE ROADWAY PLANS (TYP.)

W. WALNUT ST. (HWY 71B)

EXIST. CURB INLET
TOP RIM=1344.27
℄=1340.64 (N)

ABANDON AND FILL
EXISTING 8" SANITARY SEWER

EXIST. OUTLET
℄=1338.86

EXISTING 18" SANITARY SEWER

ABANDON AND FILL
EXISTING 10" SANITARY SEWER

CUT AND PLUG EXISTING 10" SANITARY SEWER

EXIST. SS MH #273
TOP RIM=1345.30
FL=1335.91 (10"PVC W & N)

ABANDON AND FILL
EXIST. SS MH #274
TOP RIM=1343.69
FL=1336.35 (10"PVC E 8"PVC S 4"SERVICE N)

EXISTING OVERHEAD ELECTRIC

EXISTING R/W (TYP)

ADJUST EXIST. SS MH RIM TO FINISHED GRADE PER DETAILS

EXISTING OVERHEAD ELECTRIC

LIGHT POLE (TYP.)

EXIST. HEADWALL
℄=1338.11

ABANDON AND FILL
EXIST. SS MH #289
TOP RIM=1344.13
FL=1336.83 (8"PVC N & W)

EXIST. DROP INLET
TOP RIM=1343.87
℄=1339.66

EXISTING STORM SEWER

UTILITY ESMT. WIDTH VARIES

GAS (BY OTHERS)
2"G

ABANDON AND FILL
EXIST. SS MH #288
TOP RIM=1343.69
FL=1339.61 (8"PVC E & W)

02-22779-000
WAL-MART STORES INC 05-9071
922 W WALNUT ST

EXIST. JUNCTION BOX
TOP RIM=1343.87
℄=1339.46 (30")

EXIST. SS MH #269
TOP RIM=1344.20
FL=1330.20 (18"DI N 18" PVC S)

EXIST. CURB INLET
TOP RIM=1346.06
℄=1340.80

02-22780-000
WAL-MART REAL ESTATE BUSINESS TRUST
808 W WALNUT ST

FUEL SERVICE

MATCH LINE – 66+60.00

DRAWING: C:\610\610-XP\ROUTE\INFRASTRUCTURE\CIVIL\DWG\UTILITY PLANS.DWG
LAYOUT: W WALNUT UTILITY PLANS 9 OF 11 | LAST SAVED: 6/7/2023 1:29:26 AM
LAST PLOTTED: 6/8/2023 8:19:19 AM | PLOTTED BY: MARCUS HUSSEY | PLOTTER: WAD-HARD COPY ON V1

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	180	320
		W. WALNUT ST. UTILITY PLANS 10 OF 11				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE - 66+60.00

02-08684-000
RNR INVESTMENTS LLC
817 W WALNUT ST

02-01289-000
CANTERBURY FAMILY LLLP
815 W WALNUT ST

02-1288-000
CANTERBURY FAMILY LLLP
100 N 8TH ST

02-08666-000
DAIKM BEACHWAY PLAZA LLC
721 W WALNUT ST

02-01140-000
GARNER & LARIMORE INC
719 W WALNUT ST

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

EXISTING 8" SANITARY SEWER

POWER POLE (BY OTHERS)

EXISTING 8" WATERLINE

UGT (BY OTHERS)

INSTALL 8"X8" TAPPING SLEEVE AND VALVE. PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

CUT AND CAP WATERLINE.

INSTALL 8"X8" TEE 8" GATE VALVE

CAREFULLY SALVAGE EXISTING FIRE HYDRANT AND DELIVER TO RWU YARD.

INSTALL NEW 1" WATER SERVICE

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

ABANDON AND FILL PER DETAILS
EXIST. SS MH #271
TOP RIM=1361.44
FL=1355.41 (8"DI OR CLAY EAST)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

20' UTILITY ESMT.

UGTV RISER (BY OTHERS) (TYP.)

INSTALL NEW 1" WATER SERVICE

INSTALL 8"X8" TEE 2-8" GATE VALVES

INSTALL 8"X6" TEE AND FH ASSEBLY

WATERLINE 2

INSTALL 8" WATERLINE

INSTALL 8" WATERLINE

INSTALL NEW 1" WATER SERVICE

CONCRETE SIDEWALK (DETERIORATED)

REMOVE EXISTING WATER SERVICE (TYP.)

EXISTING UNDERGROUND TV

EXISTING OVERHEAD ELECTRIC

EXISTING FIBER OPTIC

EXISTING R/W (TYP)

W. WALNUT ST. (HWY 71B)

EXISTING SIGNAL POLE (TYP.)

EXIST. SS MH #272
TOP RIM=1356.19
FL=1348.83 (8"CLAY N 6"PVC S)
FLOW DIRECTION NORTH

CONCRETE PEDESTAL

REMOVE EXISTING 4" WATERLINE

EXISTING R/W (TYP)

EXISTING OVERHEAD ELECTRIC

EXISTING R/W (TYP)

FILL AND ABANDON EXISTING 6" SANITARY SEWER

INSTALL 8" WATERLINE

EXISTING UNDERGROUND TV

REMOVE EXISTING WATER SERVICES

EXISTING POWER POLE (TYP.)

MH 3-3

SIGNAL POLE SEE SIGNAL PLANS (TYP.)

EXISTING R/W (TYP)

R/W

2"G

UGTV

UTILITY ESMT. WIDTH VARIES

UGTV (BY OTHERS)

GAS (BY OTHERS)

EXISTING OVERHEAD ELECTRIC

LIGHT POLE (TYP.)

STORM SEWER SEE ROADWAY PLANS (TYP.)

INSTALL NEW 1" WATER SERVICE

GAS PUMP ISLAND AWNING

GAS SERVICE

OVERHANG

S. 8TH ST.

N. 8TH ST.

02-01393-000
KSBD LLC
101 S 8TH ST

02-01387-000
AUTOZONE INC
119 S 8TH ST

02-01392-000
COOK FAMILY PROPERTIES LLC
726 W WALNUT ST

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

EXIST. POWER POLE

MATCH LINE - 72+04.11

MATCH LINE
SEE VIEW 1-A, THIS SHEET

VIEW 1-A

MATCH LINE

REMOVE PLUG AND CONNECT TO EXIST. VALVE. APPROXIMATE LOCATION AND DEPTH. CONTRACTOR TO FIELD VERIFY.

FILL AND ABANDON EXISTING 6" SANITARY SEWER

EXIST. SS MH #290
TOP RIM=1356.74
FL=1348.94 (6"PVC N & S)
FL=1349.31 (6"PVC EAST)
FLOW DIRECTION SOUTH

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

DRAWING: C:\A\01-RFQ-WALNUT\01_INFRASTRUCTURE\CIVIL\DWG\LAYOUT PLANS.DWG
LAYOUT: W. WALNUT - OUTLET PLANS (SHT 1) | LAST SAVED: 11/29/22 9:26:26 AM
BY: ANTHONY.TIEN.NGUYEN@ARDOT.GOV | PLOTTED: 11/29/22 9:26:28 AM

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	181	320
		W. WALNUT ST. UTILITY PLANS 11 OF 11				

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

PLAZA LLC

02-01140-000
GARNER & LARIMORE INC
719 W WALNUT ST

02-01140-000
GARNER & LARIMORE INC
719 W WALNUT ST

02-01139-000
DARROW GARNER INC.
715 W WALNUT ST

ONE STORY

GAS SERVICE

ABANDON AND FILL PER DETAILS
EXIST. SS MH #271
TOP RIM=1361.44
FL=1355.41 (8"DI OR CLAY EAST)

INSTALL NEW 1" WATER SERVICE

REMOVE EXIST. WATER SERVICE (TYP.)

STORM SEWER SEE ROADWAY PLANS (TYP.)

INSTALL 8"X8" TEE AND 2-8" GATE VALVES

INSTALL NEW 1" WATER SERVICE

UTILITY ESMT. WIDTH VARIES

INSTALL 8"x6" REDUCER AND FIRE HYDRANT ASSEMBLY

INSTALL 8"X8" TEE

EXISTING R/W (TYP)

INSTALL AIR RELEASE VALVE ASSEMBLY

INSTALL 8" SANITARY SEWER

MH 3-1

N 7TH ST

10"SS

EXISTING 10" SANITARY SEWER

EXIST. SERVICE (TO REMAIN)

ABANDON AND FILL PER DETAILS
EXIST. SS MH #270
TOP RIM=1362.56
FL=1352.50 (8"DI OR CLAY W 10"PVC N)

PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

END W. WALNUT ST. (HWY 71B)
STA. 75+33.66

REMOVE EXISTING 4" WATERLINE

ABANDON AND FILL EXIST. 8" SANITARY SEWER

INSTALL 8" WATER LINE

INSTALL 1-8"X4" REDUCER

W. WALNUT ST. (HWY 71B)

SANITARY SEWER LINE 3

MH 3-3

MH 3-2

INSTALL 8" SANITARY SEWER

EXIST. 4" WATERLINE
APPROXIMATE LOCATION AND DEPTH
CONTRACTOR TO FIELD VERIFY

EXISTING 4" WATERLINE

CONNECT TO EXIST. VALVE;
REMOVE EXIST. 4" WATER LINE

REMOVE EXISTING WATER SERVICE (TYP.)

LIGHT POLE (TYP.)

WATERLINE 8

INSTALL NEW 1" WATER SERVICE

EXISTING R/W (TYP)

CONNECT EXIST. WATER SERVICE TO NEW 8" MAIN

R/W

INSTALL 1-8"X6" REDUCER AND FIRE HYDRANT ASSEMBLY

INSTALL 2-1" WATER SERVICES

CAREFULLY SLAVAGE EXIST. FIRE HYDRANT AND DELIVER TO RWU YARD)

S 7TH ST

AT&T BRICK

BRICK BUILDING

COOKS NATURAL MARKET

POWER POLE AND FLOOD LIGHT TO BE SET BY AEP/SWEPCO

EXIST. SANITARY SERVICE
APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY
REROUTE AND CONNECT
TO NEW MAIN

EXIST. SANITARY SERVICE
APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY
REROUTE AND CONNECT
TO NEW MAIN

02-01391-000
SOUTHWESTERN BELL TELEPHONE COMPANY
700 W WALNUT ST

02-01391-000
SOUTHWESTERN BELL TELEPHONE COMPANY
700 W WALNUT ST

EXIST. SERVICE (TO REMAIN)

02-01393-000
KSBD LLC
101 S 8TH ST

02-01387-000
AUTOZONE INC
119 S 8TH ST

02-01392-000
COOK FAMILY
PROPERTIES LLC
726 W WALNUT ST

02-01392-000
COOK FAMILY
PROPERTIES LLC
726 W WALNUT ST

MATCH LINE - 72+04.11

71+00 72+00 73+00 74+00 75+00

1359 1360 1361 1362 1363

SS SS SS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	182	320
		SANITARY SEWER LINE 1 P&P SHT. 1				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
20' UTILITY ESMT.
02-00946-001 SAND PHARMACY ROGERS 10816 LLC 1749 W WALNUT ST
02-00941-000 SAND PHARMACY ROGERS 10816 LLC 1749 W WALNUT ST
UGTV RISER (BY OTHERS) (TYP.)
EXIST. U.E.
INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO
INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)
CORNERSTONE PHARMACY
02-00945-001 ERV INVESTMENT GROUP LLC 1735 W WALNUT ST
GAS (BY OTHERS)
UGTV (BY OTHERS)
EXIST. R/W
N. DIXIELAND RD.
EXIST. 24" CMP SEE ROADWAY PLANS (TYP.)
STA. 0+00.00 BEGIN SANITARY SEWER LINE 1
MH 1-1 EXIST. SS MH #277 TOP RIM=1324.72 FL=1317.94 (10"CLAY N & S 8"PVC SE)
STA. 0+11.76 SANITARY SEWER LINE 1 = STA. 10+00.00 S. DIXIELAND RD.
18" STEEL CASING
MH 1-2
STORM SEWER SEE ROADWAY PLANS (TYP.)
10" HPG (BY OTHERS)
W. WALNUT ST. (HWY 71B)
SANITARY SEWER LINE 1
EXIST. 18" RCP SEE ROADWAY PLANS (TYP.)
CAUTION! EXISTING OVERHEAD ELECTRIC
ABANDON AND FILL EXISTING 8" WATERLINE
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
ABANDON AND FILL PER DETAILS EXIST. SS MH #209 TOP RIM=1330.35 FL=1321.86 (6"CLAY E 8"PVC SW)
ABANDON AND FILL EXIST. 6" SANITARY
NEW WATER SERVICE
ADJUST EXIST. SS MH RIM TO FINISHED GRADE PER DETAILS
ABANDON AND FILL EXIST. 8" SANITARY
ABANDON AND FILL EXIST. 8" SANITARY
SIGNAL POLE SEE SIGNAL PLANS
S. DIXIELAND RD.
STA. 0+00.00 BEGIN WATERLINE 1
ABANDON AND FILL PER DETAILS EXIST. SS MH #207 TOP RIM=1326.57 FL=1320.07 (8"PVC E & SW)
ABANDON AND FILL PER DETAILS EXIST. SS MH #206 TOP RIM=1326.98
UGT (BY OTHERS)
WATERLINE 1
EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC
REMOVE EXIST. SS MH #208 TOP RIM=1330.88 FL=1321.26 (8"PVC NE & W)
INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)
INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO
EXIST. U.E. WIDTH VARIES
02-14664-000 JL ROGERS LLC 1722 W WALNUT ST
02-14665-000 DICKINSON, DAVID P & SUZANNE L 1720 W WALNUT ST
EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC
MATCH LINE - 4+99.52

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

MH 1-1, STA:0+00.00 CONSTRUCT 4' DIA. MH OVER EXIST. 10" SANITARY SEWER TOP RIM=1325.12 E IN = 1317.62 10" CLAY (S) E IN = 1317.72 10" PVC (E) E OUT = 1317.62 10" CLAY (N)
STA. 0+11.76 SANITARY SEWER LINE 1 = STA. 10+00.00 S. DIXIELAND RD.
STA 9+45 RIGHT 6' DIA. CURB INLET TOP RIM=1325.69 E IN = 1321.26 18" RCP (S) E IN = 1321.85 24" RCP (SE) E OUT = 1320.74 36" RCP (E)
STA 17+65 LEFT 5'X 5' JCT. BOX TOP RIM=1326.06 E IN = 1319.69 36" RCP (E) E OUT = 1319.59 36" RCP (NW)
STA. 18+09 LEFT 5' DIA. CURB INLET TOP RIM=1326.98 E IN = 1320.00 36" RCP (S) E IN = 1320.10 24" RCP (E) E OUT = 1320.00 36" RCP (W)
STA 18+11 RIGHT 5' DIA. CURB INLET TOP RIM=1327.14 E IN = 1320.46 36" RCP (W) E OUT = 1320.46 36" RCP (N)
MH 1-2, STA:1+38.33 CONSTRUCT 4' DIA. MH TOP RIM=1327.47 E IN = 1318.21 10" PVC (E) E OUT = 1318.11 10" PVC (W)
STA 19+86 LEFT 4' DIA. CURB INLET TOP RIM=1329.63 E IN = 1324.56 18" RCP (S) E IN = 1324.56 24" RCP (E) E OUT = 1324.46 24" RCP (W)
STA 19+86 RIGHT 5'X 5' JCT. BOX TOP RIM=1329.65 E IN = 1325.95 18" RCP (E) E OUT = 1325.85 18" RCP (N)
STA 20+29 LEFT 4' DIA. CURB INLET TOP RIM=1329.97 E OUT = 1325.53 24" RCP (W)
STA 21+15 RIGHT 4' DIA. CURB INLET TOP RIM=1330.25 E IN = 1326.55 18" RCP (SE) E OUT = 1326.45 18" RCP (W)
FINISHED GRADE ℄ STS SOUTH
FINISHED GRADE ℄ STS NORTH
EXISTING GROUND
FINISHED GRADE
GRANULAR BACKFILL
EXISTING GAS LINE (APPROX. LOCATION)
36" RCP
24" RCP
18" RCP
STA. 2+97.84 18" RCP SEE ROADWAY PLANS
STA. 3+41.55 EXIST. 18" RCP SEE ROADWAY PLANS (TYP.)
STA. 3+76.53 4" PVC WATER SERVICE CASING CROWN ELEV. = 1325.36
STA. 3+93.16 EXIST. 8" WATERLINE
STA. 3+96.71 UGE CONDUIT
STA. 3+90.71 UGTV CONDUIT
STA. 0+08.97 EXIST. 6" WATERLINE
138.33 L.F.,10" PVC (SDR-26) @ 0.28%
373.43 L.F.,10" PVC (SDR-26) @ 0.28%
STA. 0+81.64 10" HPG (BY OTHERS)
STA:1+09.95 ℄ ELEV:1317.69
INSTALL 24 L.F. 18" STEEL CASING
STA. 1+21.92 36" RCP SEE ROADWAY PLANS
STA:1+33.95 ℄ ELEV:1317.76

1345 1340 1335 1330 1325 1320 1315 1310 1305 1300
0+00 1+00 2+00 3+00 4+00

SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

DRAWING: C:\610-692-ATA\UTILITY\INFRASTRUCTURE-CTNL\DWG\SANITARY SEWER P&P.DWG
LAYOUT: SANITARY SEWER LINE 1 P&P SHT. 1 LAST SAVED: BRAKE, 6/12/2023 14:23:37 AM
PLOTTED: THU, JUN 15, 2023 @ 08:50:51 AM BY: WILLIAM BURNETT (COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	183	320
		SANITARY SEWER LINE 1 P&P SHT. 2				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 4+99.52

02-00945-002
WAFFLE HOUSE INC.
1721 W WALNUT ST

EXIST. U.E.

20' UTILITY ESMT.

UGT (BY OTHERS)

2"G

UGTV

R/W

UGT

FO

02-04930-000
ELIAS PROPERTIES ARKANSAS LLC
1717 W WALNUT ST

EXIST. SANITARY SERVICE APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

02-04929-000
JONES, MILLIE J & WEBER, ZACHARY J
1709 W WALNUT ST

EXIST. SANITARY SERVICE APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

GAS (BY OTHERS)

02-4928-000
FRISCO ON WALNUT APARTMENTS LLC
WALNUT ST

END WATERLINE 4
STA. 1+15.93

UGTV (BY OTHERS)

02-04926-000
WEN INVESTMENT GROUP LLC
1601 W WALNUT ST

END WATERLINE 5
STA. 1+23.77

22+00 23+00 24+00 25+00 26+00

5+00 6+00 7+00 8+00 9+00 10+00

8"W

WATERLINE 11

WATERLINE 4

WATERLINE 5

NEW WATER SERVICE

CAUTION! EXISTING OVERHEAD ELECTRIC

18" STEEL CASING

8" WATERLINE

SANITARY SEWER LINE 1

W. WALNUT ST. (HWY 71B)

1331

1332

MH 1-3

MH 1-4

MH 1-5

STA. 6+76.93 SANITARY SEWER LINE 1 =
STA. 0+00.00 SANITARY SEWER LINE 4

ABANDON AND FILL EXIST. 6" SANITARY

ABANDON AND FILL PER DETAILS
EXIST. SS MH #218
TOP RIM=1330.56
FL=1323.17 (6"CLAY E & W

UGE (BY OTHERS)

REMOVE EXIST. 6" SANITARY

STORM SEWER SEE ROADWAY PLANS (TYP.)

EXIST. 18" RCP
SEE ROADWAY PLANS (TYP.)

REMOVE EXIST. SS MH #221
TOP RIM=1332.00
FL=1325.08 (6"CLAY E & W)

STA. 8+07.89 WATERLINE 1 =
STA. 0+00.00 WATERLINE 4

STA. 8+88.84 WATERLINE 1 =
STA. 0+00.00 WATERLINE 5

EXIST. SANITARY SERVICE APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN AT MH 1-3 WITH 4" SVC

UGTV RISER (BY OTHERS) (TYP.)

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

10'

15' U.E.

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

END SANITARY SEWER LINE 4
STA. 0+66.07

02-04335-000
LANDIS HOLDINGS LLC
1716 W WALNUT ST

02-04336-000
LANDIS HOLDINGS LLC
1712 W WALNUT ST

02-06007-000
CAMACHO, EVERARDO
1708 W WALNUT ST

02-06006-000
GAGLIARDO, TONY & LEAH
1608 W WALNUT ST

02-06005-000
GAGLIARDO, TONY & LEAH
1604 W WALNUT ST

02-06002-000
PRIMUS INVESTMENTS LLC
1504 W WALNUT ST

MATCH LINE – 10+39.52

NOTE:
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CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

MH 1-3, STA:5+11.76
CONSTRUCT 4' DIA. MH
TOP RIM=1330.47
℄ IN = 1319.35 10" PVC (E)
℄ IN = 1319.76 4" PVC (S)
℄ OUT = 1319.26 10" PVC (W)

GRANULAR BACKFILL

FINISHED GRADE ℄ STS NORTH

MH 1-4, STA:6+76.94 SANITARY SEWER LINE 1
STA. -0+00.00 SANITARY SEWER LINE 4
CONSTRUCT 4' DIA. MH
TOP RIM=1330.90
℄ IN = 1319.92 10" PVC (E)
℄ IN = 1319.98 8" PVC (S)
℄ OUT = 1319.82 10" PVC (W)

STA 23+83 LEFT
8'X 7 JCT. BOX
TOP RIM=1331.05
℄ IN = 1323.32 5' X 4' RCB (E)
℄ IN = 1323.32 6' X 4' RCB (S)
℄ OUT = 1323.22 8' X 4' RCB (N)

STA 23+83 RIGHT
8'X 8 JCT. BOX
TOP RIM=1330.95
℄ IN = 1323.62 6' X 4' RCB (E)
℄ OUT = 1323.52 6' X 4' RCB (N)

EXISTING GROUND

FINISHED GRADE

STA 25+10 RIGHT
8'X 4 JCT. BOX
TOP RIM=1331.47
℄ IN = 1324.25 54" RCP (E)
℄ OUT = 1324.15 6' X 4' RCB (W)

FINISHED GRADE ℄ STS SOUTH

MH 1-5, STA:9+31.76
CONSTRUCT 4' DIA. MH
TOP RIM=1332.17
℄ IN = 1320.73 10" PVC (E)
℄ OUT = 1320.63 10" PVC (W)

STA 26+23 RIGHT
6' DIA. CURB INLET
TOP RIM=1332.18
℄ IN = 1324.77 54" RCP (E)
℄ OUT = 1324.76 54" RCP (W)

STA. 26+40 LEFT
7'X 4 JCT. BOX
TOP RIM=1332.42
℄ IN = 1324.86 5' X 4' RCB (E)
℄ OUT = 1324.76 5' X 4' RCB (W)

GRANULAR BACKFILL

STA. 5+27.75
WATERLINE
8" DUCTILE IRON

STA. 5+03.84
EXIST. 8" WATERLINE

GRANULAR BACKFILL

STA. 6+49.47
4" PVC WATER SERVICE CASING
CROWN ELEV. = 1327.60

STA. 6+85.73
UGTV CONDUIT

STA:6+80.84
℄ ELEV:1319.60

INSTALL 28 L.F.
18" STEEL CASING

STA:7+08.84
℄ ELEV:1319.68

STA. 6+94.75
6' X 4' RCB
SEE ROADWAY PLANS

STA. 7+02.57
UGE CONDUIT

6' X 4' RCB

54" RCP

165.18 L.F.,10" PVC (SDR-26) @ 0.28%

254.83 L.F.,10" PVC (SDR-26) @ 0.28%

394.74 L.F. 10" PVC @ 0.28%

18" MIN

STA. 8+10.98
WATERLINE
8" DUCTILE IRON

STA. 8+81.94
WATERLINE
8" DUCTILE IRON

STA. 9+52.68
EXIST. 18" RCP
SEE ROADWAY PLANS (TYP.)

STA. 10+12.53
UGE CONDUIT

1345 1340 1335 1330 1325 1320 1315 1310 1305 1300

6+00 7+00 8+00 9+00 10+00

SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: G:\16-01-482_JA\NUTILITY\INFRASTRUCTURE\CIVIL\DWG\USARMY\ARMY SEWER P&P.DWG
LAYOUT: SANITARY SEWER LINE 1 P&P SHT. 2 LAST SAVED: 6/7/2023 11:53:00 AM
PLOTTED: 6/7/2023 11:54:00 AM BY: ANTHONY BRIGHAM (LAST EDITED BY: ANTHONY BRIGHAM HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	184	320
		SANITARY SEWER LINE 1 P&P SHT. 3				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 10+39.52

02-04924-000
LONG WATSON LONG DEVELOPMENT LLC
1519 W WALNUT ST

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

20' UTILITY ESMT.

02-04923-000
GALVAN, KARLA M
1505 W WALNUT ST

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

02-04922-000
GALVAN, KARLA M
1501 W WALNUT ST

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

UGTV RISER (BY OTHERS) (TYP.)

02-04921-000
COTTON CREEK VENTURES LLC
1429 W WALNUT ST

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

28+00 29+00 30+00 31+00 32+00

2"G UGTV UGT FO R/W

GAS (BY OTHERS)

UGTV (BY OTHERS)

UGT (BY OTHERS)

11+00 12+00 13+00 14+00 15+00

ABANDON AND FILL EXISTING WATERLINE

STORM SEWER SEE ROADWAY PLANS (TYP.)

NEW WATER SERVICE

CAUTION! EXISTING OVERHEAD ELECTRIC

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

1333 1334 1335

SANITARY SEWER LINE 1

W. WALNUT ST. (HWY 71B)

MH 1-6

16" STEEL CASING

4" SVC

REMOVE EXIST. 6" SANITARY

EXIST. 18" RCP SEE ROADWAY PLANS (TYP.)

ABANDON AND FILL EXISTING 6" WATERLINE

6"W 8"W 2"W

EXIST. UNDERGROUND TV

UGT (BY OTHERS)

GAS (BY OTHERS)

EXIST. SANITARY SERVICE APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

REMOVE EXIST. SS MH #225
TOP RIM=1333.77
FL=1326.81 (6"CLAY W & E)
FL=1327.09 (6"CLAY SOUTH)

15TH ST.

MH 9-1

02-06002-000
PRIMUS INVESTMENTS LLC
1500 W WALNUT ST

02-15171-000
BENTON COUNTY ARKANSAS
1428 W WALNUT ST
ROGERS, AR 72756

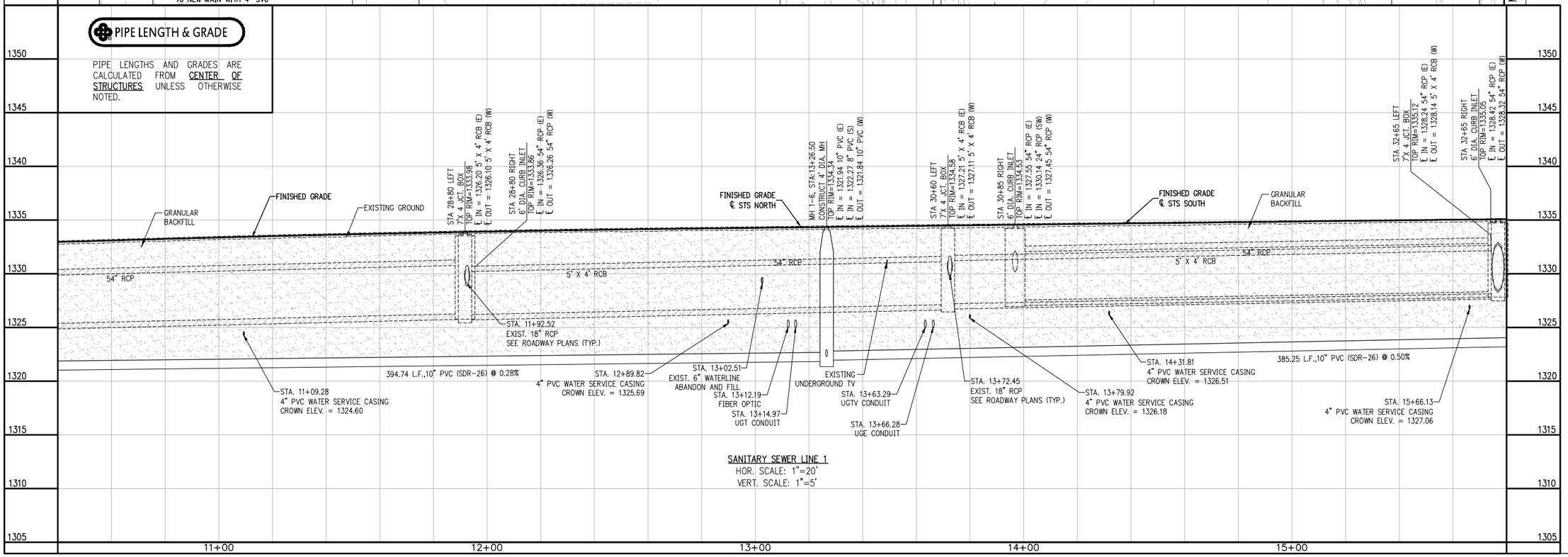
EXIST. 20' U.E.

EXIST. SANITARY SERVICE APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY, CONSOLIDATE, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

MATCH LINE – 15+78.57

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.



SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING C:\610-ROADWAY\UTILITY\INFRASTRUCTURE\CIVIL\DWG\SUNDAY\SEWER P&P.DWG
LAYOUT: SAT P&P1 SEWER LINE 1 P&P SHT. 3 SAT P&P1 SEWER LINE 1 P&P SHT. 3 | 6/7/2023 8:23:26 AM
LAST SAVED BY: BRIAN.MANGRUM | PLOTTED: 6/7/2023 8:23:26 AM
PLOTTED BY: BRIAN.MANGRUM | PLOTTED ON: HARD COPY ON VT

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	185	320
		SANITARY SEWER LINE 1 P&P SHT. 4				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE – 15+78.57

02-00956-000
BERMAN, JOSEPH & LESLIE
1411 W WALNUT ST

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

N. 14TH

END WATERLINE 6
STA. 1+32.77

02-00955-000
FITCH, DAVID
1405 W WALNUT ST

20' UTILITY ESMT.

UGTV (BY OTHERS)
UGT (BY OTHERS)

02-00959-000
LANDIS HOLDINGS LLC
1401 W WALNUT ST

GAS (BY OTHERS)

UGTV RISER (BY OTHERS) (TYP.)

N. 14TH ST.

02-05896-001
STARR HICKMAN RENTALS LLC
1325 W WALNUT ST

UGTV RISER (BY OTHERS) (TYP.)

20' UTILITY ESMT.

UGTV (BY OTHERS)

33+00 34+00 35+00 36+00 37+00

16+00 17+00 18+00 19+00 20+00 21+00

CAUTION! EXISTING OVERHEAD ELECTRIC

EXIST. 36" RCP
SEE ROADWAY PLANS (TYP.)

W. WALNUT ST. (HWY 71B)

SANITARY SEWER LINE 1

GAS (BY OTHERS)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

CAUTION! EXISTING OVERHEAD ELECTRIC

NEW WATER SERVICE

ABANDON AND FILL PER DETAILS
EXIST. SS MH #232
TOP RIM=1340.84
FL=1334.19 (6"CLAY W & E)

BEGIN SANIT

REMOVE EXIST. SS MH #231
TOP RIM=1335.42
FL=1328.85 (6"CLAY E & W)

MH 1-7

MH 1-8

STORM SEWER SEE ROADWAY PLANS (TYP.)

NEW WATER SERVICE

REMOVE EXIST. 6" SANITARY

WATERLINE 6

WATERLINE 1

EXIST. UNDERGROUND TV

STA. 17+64.40 WATERLINE 1 = STA. 0+00.00 WATERLINE 6

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

02-04308-000
MEINEKE OF NORTHWEST ARKANSAS INC
1418 W WALNUT ST

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, CONSOLIDATE, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

02-04306-000
JAS INVESTMENTS INC
1400 W WALNUT ST

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

SINGLE PHASE TRANSFORMER TO BE INSTALLED BY AEP/SWEPCO

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

02-04305-000
BF COMMERCIAL HOLDINGS LLC
1320 W WALNUT ST

MATCH LINE – 21+18.

THE QUARTER SHOPPING CENTER

1ST EMPLOYMENT

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

STA 33+48 LEFT
6'X 4' JCT. BOX
TOP RIM=1335.37
℄ IN = 1328.66 54" RCP (E)
℄ OUT = 1328.56 54" RCP (W)

MH 1-7, STA:17+11.76
CONSTRUCT 4' DIA. MH
TOP RIM=1335.59
℄ IN = 1323.97 10" PVC (E)
℄ OUT = 1323.87 10" PVC (W)

STA 34+20 RIGHT
6' DIA. CURB INLET
TOP RIM=1335.72
℄ IN = 1330.16 54" RCP (SE)
℄ OUT = 1330.16 54" RCP (W)

STA 34+58 LEFT
6'X 4' JCT. BOX
TOP RIM=1336.13
℄ IN = 1329.42 54" RCP (E)
℄ OUT = 1329.32 54" RCP (W)

MH 1-8, STA:19+40.63
CONSTRUCT 4' DIA. MH
TOP RIM=1338.42
℄ IN = 1326.11 10" PVC (E)
℄ OUT = 1326.01 10" PVC (W)

STA 37+05 LEFT
6'X 4' JCT. BOX
TOP RIM=1339.69
℄ IN = 1330.90 54" RCP (E)
℄ IN = 1335.75 18" RCP (N)
℄ IN = 1335.00 24" RCP (S)
℄ OUT = 1330.80 54" RCP (W)

STA 37+12 RIGHT
4' DIA. CURB INLET
TOP RIM=1339.70
℄ IN = 1335.83 18" RCP (S)
℄ OUT = 1335.33 24" RCP (N)

GRANULAR BACKFILL
FINISHED GRADE ℄ STS SOUTH
FINISHED GRADE ℄ STS NORTH
FINISHED GRADE
EXISTING GROUND
EXISTING UNDERGROUND TV

54" RCP
STA. 17+04.47 UGE CONDUIT
EXIST. 36" RCP SEE ROADWAY PLANS (TYP.)
STA. 17+57.48 WATERLINE 8" DUCTILE IRON
228.88 L.F.,10" PVC (SDR-26) @ 0.89%
STA. 18+31.58 2" D.I. GAS PIPE (BY OTHERS)
18" MIN.
STA. 18+39.24 4" PVC WATER SERVICE CASING CROWN ELEV. = 1328.29
STA. 19+91.92 UGE CONDUIT
STA. 20+02.31 ABANDON AND FILL EXIST. 8" DUCTILE IRON
STA. 20+09.88 UGTV CONDUIT
228.88 L.F.,10" PVC (SDR-26) @ 1.42%
STA. 20+20.37 24" RCP SEE ROADWAY PLANS
STA. 20+43.90 4" PVC WATER SERVICE CASING CROWN ELEV. = 1336.84

SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

1355 1350 1345 1340 1335 1330 1325 1320 1315 1310

16+00 17+00 18+00 19+00 20+00 21+00

DRAWING: C:\1-0101402_WALNUT\T_U\PRASTRUCTURE\CIVIL\DWG\SANITARY SEWER P&P.DWG
LAYOUT: SANITARY SEWER P&P SHT. 4, 1:1(1:1)(1:1), 7/5/2023 12:22:27 PM
USER: BRYAN.HAMMONDS.L, XREFS: 1:1(1:1)(1:1), 1:1(1:1)(1:1), 1:1(1:1)(1:1),

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	186	320
		SANITARY SEWER LINE 1 P&P SHT. 5				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

02-05896-001
STARR HICKMAN RENTALS LLC
1325 W WALNUT ST

02-00960-000
ALMARAZ SPE LLC
1303 W WALNUT ST

02-00960-001
BARAJAK LLC
W WALNUT ST & N 13TH ST

02-00961-000
CS COMPANY
1305-1311 W WALNUT ST

02-04304-000
ALDI INC
1316 W WALNUT ST

02-04297-000
HAMMER WILLIAMS CO
1310 W WALNUT ST

02-04303-000
HAMMER WILLIAMS COMPANY
1300 W WALNUT ST

W. WALNUT ST. (HWY 71B)

S. 13TH ST.

REMOVE EXIST. SS MH #234
TOP RIM=1341.57
FL=1338.64 (6"DI E & S 4"PVC WEST)

END SANITARY SEWER LINE 5
STA. 0+49.90

STA. 0+00.00
BEGIN WATERLINE 2

16" STEEL CASING

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

GAS (BY OTHERS)

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

UGTV RISER (BY OTHERS) (TYP.)

UGTV (BY OTHERS)

20' UTILITY ESMT.

EXIST. POWER POLE

SANITARY SEWER LINE 5

MH 1-9

STA. 0+00.00
BEGIN SANITARY SEWER LINE 5
REMOVE EXIST. 6" SANITARY

ABANDON AND FILL EXISTING 8" WATERLINE

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

CAUTION! EXISTING OVERHEAD ELECTRIC

GAS (BY OTHERS)

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXIST. 6" SANITARY

MH 1-10

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

PLUG AND ABANDON EXIST. 8" SANITARY SEWER

EXIST. SS MH #284
TOP RIM=1342.89
FL=1336.98 (8"CLAY N S & SE 6"PVC E)

MH 1-11

WATERLINE 1
8"W

END WATERLINE 1
STA. 22+26.49

ABANDON AND FILL PER DETAILS

EXIST. SS MH #233
TOP RIM=1341.52
FL=1334.36 (6"CLAY E & W)

EXIST. SANITARY SERVICE APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

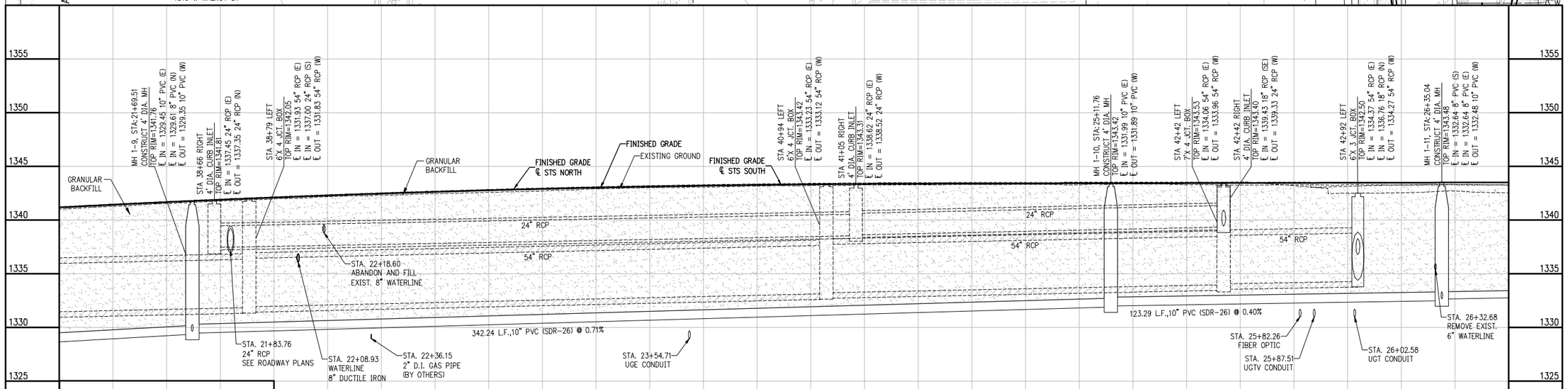
REMOVE EXIST. SS MH #279
TOP RIM=1343.07
FL=1335.79 (6"PVC WEST)

SIGNAL POLE
SEE SIGNAL PLANS

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

MATCH LINE - 21+18.57

MATCH LINE - 26+50.00



PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\1610.#02.#PAVING\ENGINEERING\INFRASTRUCTURE\CIVIL\DWG\SANITARY\SEWER P&P.DWG
LAYOUT: SANITARY SEWER LINE 1 P&P SHT. 5 | XREF: | PLOTTED: 6/9/2023 12:27:27 PM | BY: DAVID
LAYOUT: SANITARY SEWER LINE 1 PROFILE SHT. 5 | XREF: | PLOTTED: 6/9/2023 12:27:29 PM | BY: DAVID (HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	187	320
		SANITARY SEWER LINE 1 P&P SHT. 6				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE - STA. 26+50.00

64" RCP

UGTV

R/W

WATERLINE 2

36" RCP

UGT

FO

UGTV (BY OTHERS)

SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO

48" RCP

6"SS

27+00

28+00

29+00

30+00

31+00

16" STEEL CASING

W. WALNUT ST. (HWY 71B)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

STORM SEWER SEE ROADWAY PLANS (TYP.)

EXIST. SS MH #522
TOP RIM=1343.92
℄=1339.90 (6" PVC E & W)

MH 1-12

STA. 0+00.00
BEGIN SANITARY SEWER LINE 2

ABANDON AND FILL EXIST. 8" SANITARY

ABANDON AND FILL EXIST. 6" SANITARY

SIGNAL POLE
SEE SIGNAL PLANS

ABANDON AND FILL EXIST. 6" SANITARY

18" RCP

EXIST. WALL

UGTV RISER (BY OTHERS) (TYP.)

3' UTILITY ESMT.

6' UTILITY ESMT.

INSTALL 8" SANITARY SERVICE FROM EXIST. MH TO EXIST. 8" MAIN

8"SS

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

3"W

ABANDON AND FILL EXIST. 8" CLAY SERVICE LINE

CENTER FOR NONPROFITS

EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY AND CONNECT TO NEW MAIN WITH 4" SVC

INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO

02-22453-000
JONES TRUST - MATTHEWS, CAMPBELL & RHOADS
1200 W WALNUT ST

ABANDON AND FILL
EXIST. SS MH #283
TOP RIM=1342.93
FL=1338.22 (6"PVC E & W 8"CLAY SW)

END SANITARY SEWER LINE 2
STA. 0+66.67

REMOVE
EXIST. SS MH #282
TOP RIM=1343.01
FL=1338.42 (6"PVC E & W 6"CLAY S)

EXIST. 24" RCP

EXIST. 27' U.E.

FL=1339.29 6"P

MATCH LINE - 31+90.00

NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.

1355
1350
1345
1340
1335
1330
1325
1320
1315
1310

STA 44+00 LEFT
7'X 5 JCT. BOX
TOP RIM=1343.60
℄ IN = 1336.39 36" RCP (E)
℄ IN = 1335.39 48" RCP (S)
℄ OUT = 1334.89 54" RCP (W)

EXISTING GROUND

FINISHED GRADE

GRANULAR BACKFILL

STA 45+70 LEFT
5'X 4 JCT. BOX
TOP RIM=1343.79
℄ IN = 1337.34 36" RCP (E)
℄ OUT = 1337.24 36" RCP (W)

STA 46+60 LEFT
5'X 4 JCT. BOX
TOP RIM=1343.51
℄ IN = 1337.80 36" RCP (E)
℄ OUT = 1337.80 36" RCP (W)

STA 46+80 LEFT
5'X 4 JCT. BOX
TOP RIM=1343.57
℄ IN = 1337.95 36" RCP (E)
℄ OUT = 1337.95 36" RCP (W)

MH 1-12, STA: 30+23.60
CONSTRUCT 4' DIA. MH
TOP RIM=1343.62
℄ IN = 1334.37 8" PVC (E)
℄ IN = 1334.54 6" PVC (S)
℄ OUT = 1334.27 8" PVC (W)

STA 47+53 LEFT
5'X 4 JCT. BOX
TOP RIM=1343.80
℄ IN = 1334.47 30" RCP (E)
℄ OUT = 1338.47 36" RCP (W)

30" RCP

STA. 26+61.57
EXIST. 18" RCP
SEE ROADWAY PLANS (TYP.)

388.56 L.F.,8" PVC (SDR-26) @ 0.42%

293.41 L.F.,8" PVC (SDR-26) @ 1.08%

STA: 26+96.94
℄ ELEV:1332.57

STA: 27+21.94
℄ ELEV:1332.65

18" MIN.

INSTALL 25 L.F.
16" STEEL CASING

STA. 27+09.23
48" RCP
SEE ROADWAY PLANS

STA. 28+32.01
UGE CONDUIT

STA. 28+38.93
UGTV CONDUIT

27+00
28+00
29+00
30+00
31+00

SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

DRAWING C:\160\ROADWAY\UTILITY\INFRASTRUCTURE\CIVIL\DWG\SANITARY SEWER P&P.DWG
LAYOUT: SANITARY SEWER P&P SHT. 6 LAST SAVED BY: BRETT HAYDEN 6/9/2023 2:45:51 PM
PLOTTED: 6/9/2023 2:46:03 PM BY: BRETT HAYDEN (FOR HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	188	320
		SANITARY SEWER LINE 1 P&P SHT. 7				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

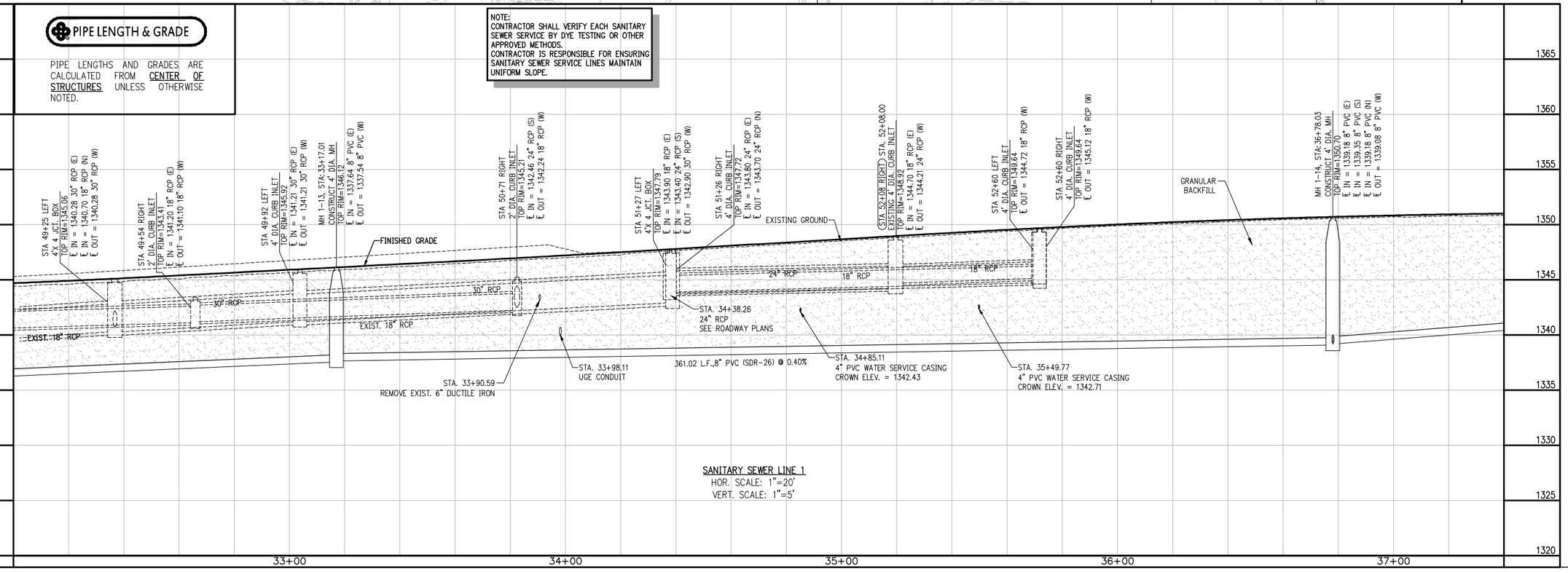
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

SANITARY SEWER LINE 6
MH 6-2
10' UTILITY ESMT.
MH 6-3
N. 12TH ST.
STA. 0+73.10 SANITARY SEWER LINE 6 = STA. 0+49.24 N. 12TH ST.
ABANDON AND FILL EXIST. SS MH #248 TOP RIM=1344.55 FL=1341.73 (6"CLAY N & W)
02-01253-000 BANK OF AMERICA 1151 W WALNUT ST ROGERS, AR 72756
16" STEEL CASING
MATCH LINE - 31+90.00
49+00
50+00
MH 6-1
32+00
33+00
1345
1346
1347
1348
1349
1350
W. WALNUT ST. (HWY 71B)
CAUTION! EXISTING OVERHEAD ELECTRIC
MH 1-13
ABANDON AND FILL EXIST. SS MH #281 TOP RIM=1345.91 FL=1339.79 (6"PVC E & W)
ABANDON AND FILL EXIST. 6" SANITARY
EXIST. 18" RCP SEE ROADWAY PLANS (TYP.)
34+00
35+00
36+00
37+00
24" RCP
NEW WATER SERVICE
ABANDON AND FILL EXIST. 6" SANITARY
STORM SEWER SEE ROADWAY PLANS (TYP.)
ABANDON AND FILL EXIST. SS MH #280 TOP RIM=1344.83 FL=1339.29 (6"PVC E & W 6"CLAY NE)
EXIST. UNDERGROUND TV
R/W
FO
UGT
UGTV
02-22453-000 JONES TRUST - MATTHEWS, CAMBELL & RHOADS 1200 W WALNUT ST
02-01316-000 JONES TRUST - MATTHEWS, CAMPBELL & RHOADS S 12TH ST
02-01314-000 SMEK LLC 1140 W WALNUT ST
02-01309-000 SMEK LLC W. WALNUT ST
02-01254-000 GRAY, THOMAS & ANN 1149 W WALNUT ST
INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)
EXIST. SANITARY SERVICE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY, REROUTE, AND CONNECT TO NEW MAIN WITH 4" SVC
INSTALL CONCRETE PAD FOR 3-PHASE TRANSFORMER. TRANSFORMER TO BE SET BY AEP/SWEPCO
SWITCH GEAR AND PAD TO BE INSTALLED BY AEP/SWEPCO
20' UTILITY ESMT.
02-01255-000 PVS PROPERTIES LLC 1043 W WALNUT ST
UGTV RISER (BY OTHERS) (TYP.)
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
02-01256-000 MCCARTY LIVING TRUST, ALTO & CAROLYN 1041 W WALNUT ST
0+71
END SANITARY SEWER LINE 7 STA. 0+70.90
MH 7-1
STA. 0+00.00 BEGIN SANITARY SEWER LINE 7
MH 1-14
8" PVC
EXIST. SS MH #285 TOP RIM=1350.31 FL=1344.11 (6"DI S 6"PVC W) FL=1344.67 (6"CLAY NE)
MATCH LINE - 0+29.67
MATCH LINE - 37+30.00
MR B'S STEAKHOUSE
PURE VITAMINS AND VITTLES
AL MCCARTY'S JEWELRY
ABUNDANT TREASURES FLEA MARKET

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

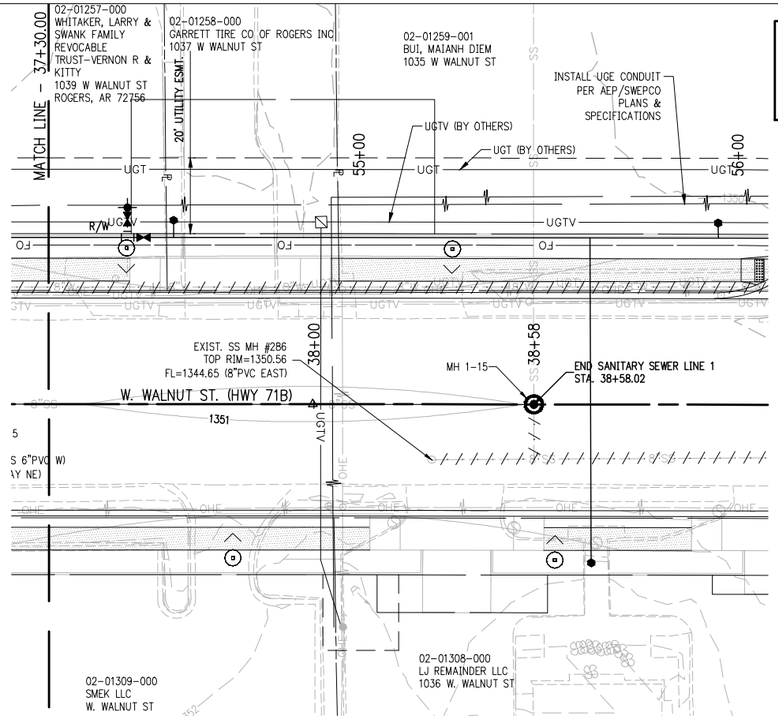
NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.



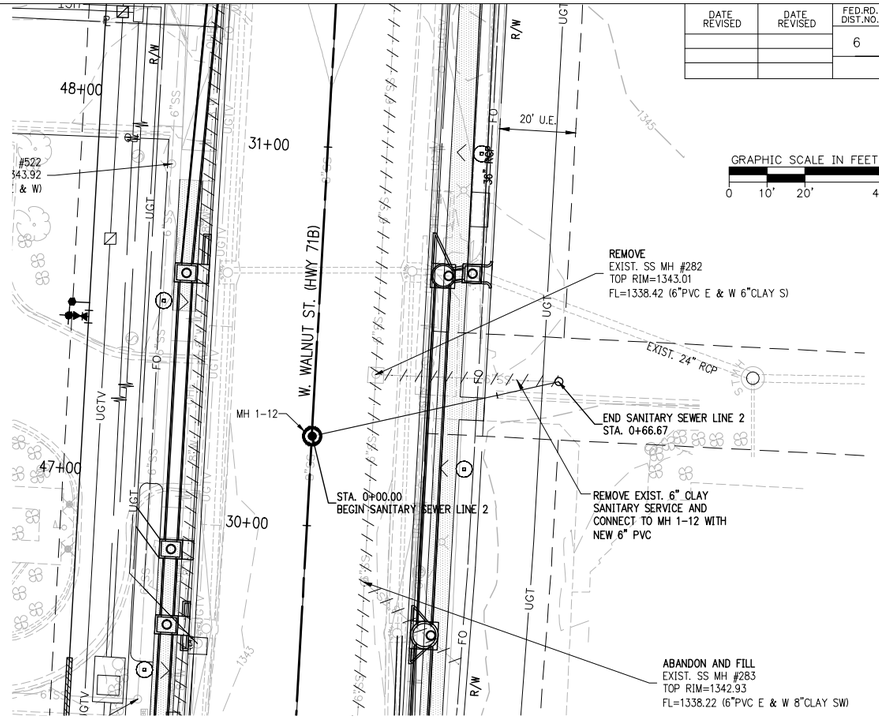
SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\650_650_XP\ALL\DETL_INFRASTRUCTURE\DETAILS\DWG\SANITARY SEWER P&P.DWG
LAYOUT: SANITARY SEWER LINE 1 P&P SHT. 7 LAST SAVED: 8:56:56 6/12/2023 5:56:18 AM BY
PLOTTED: 6/12/2023 5:56:18 AM BY (NOT COPY ONLY)

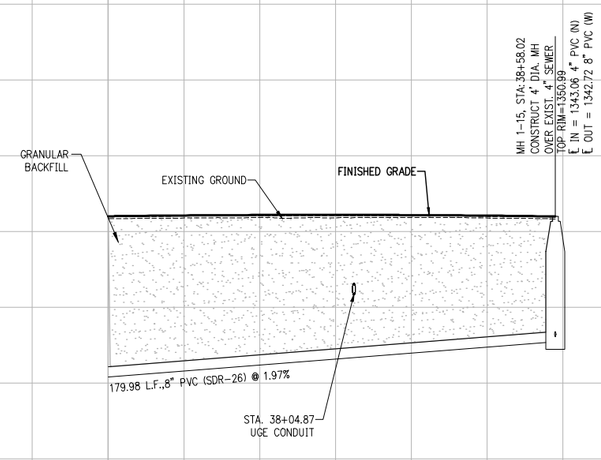
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	189	320
		SANITARY SEWER LINE 1&2 P&P				



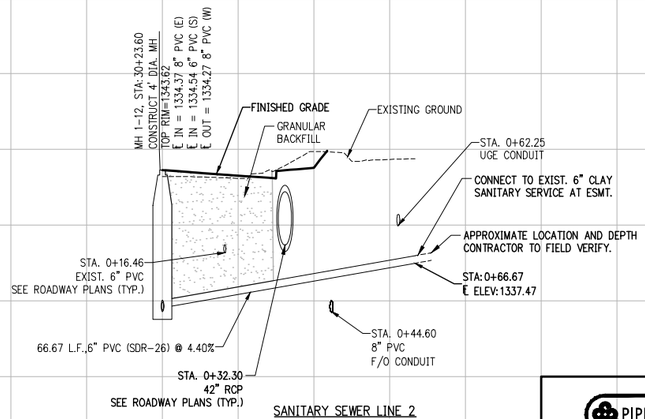
NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



SANITARY SEWER LINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'



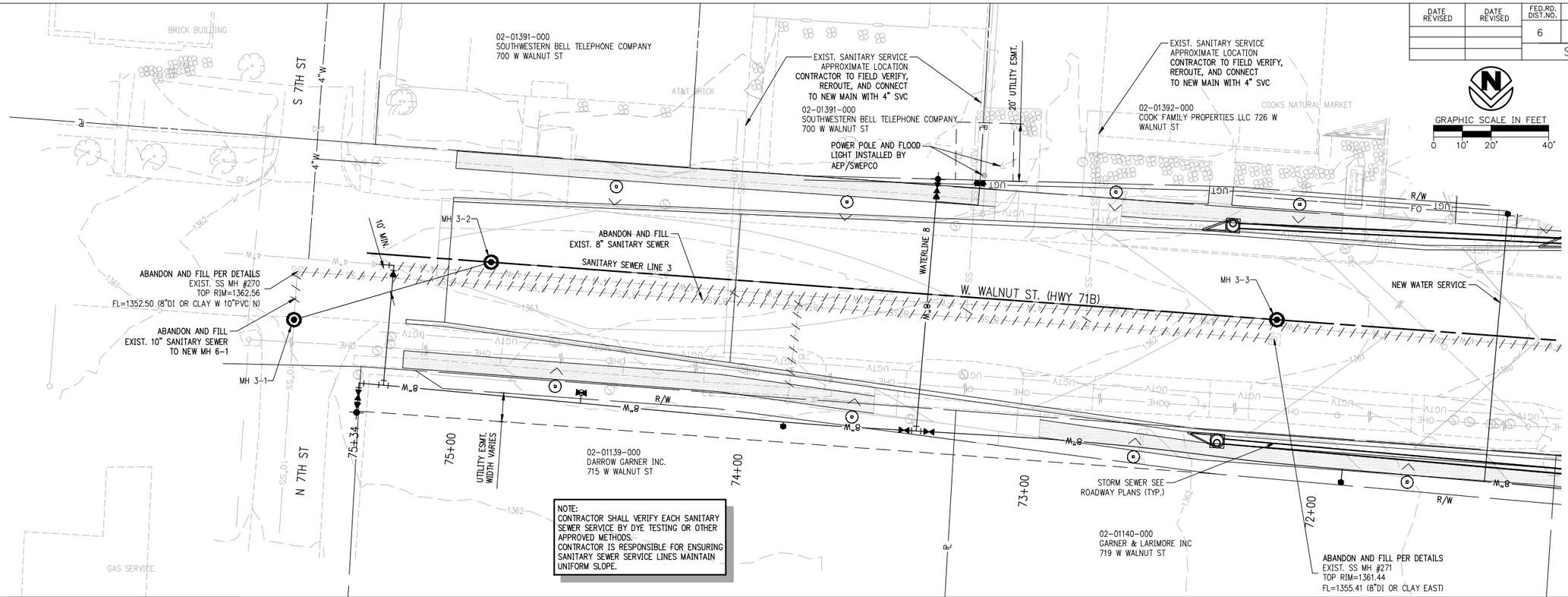
SANITARY SEWER LINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

PIPE LENGTH & GRADE

PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

DRAWING: G:\162\402_MAIN\UTILITY_INFRASTRUCTURE\CIVIL\DWG\LSA\PART\ SEWER P&P.DWG
LAYOUT: SAN PART (PHB @ MP 1.427 SF - 1.427 SHEETS #1391.4) 6/9/2023 12:37:27 PM
XREF: TITLE BLOCK.DWG, PROFILE GRID.DWG, PROFILE GRID.DWG, TITLE BLOCK.DWG, PAD CON HARD COPY ONLY)

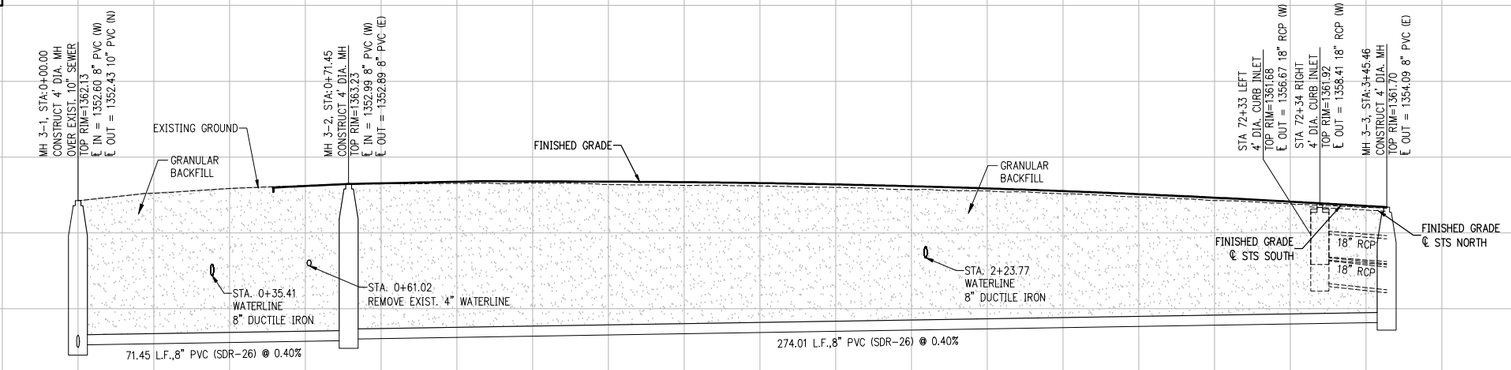
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	190	320
		SANITARY SEWER LINE 3 P&P				



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

PIPE LENGTH & GRADE

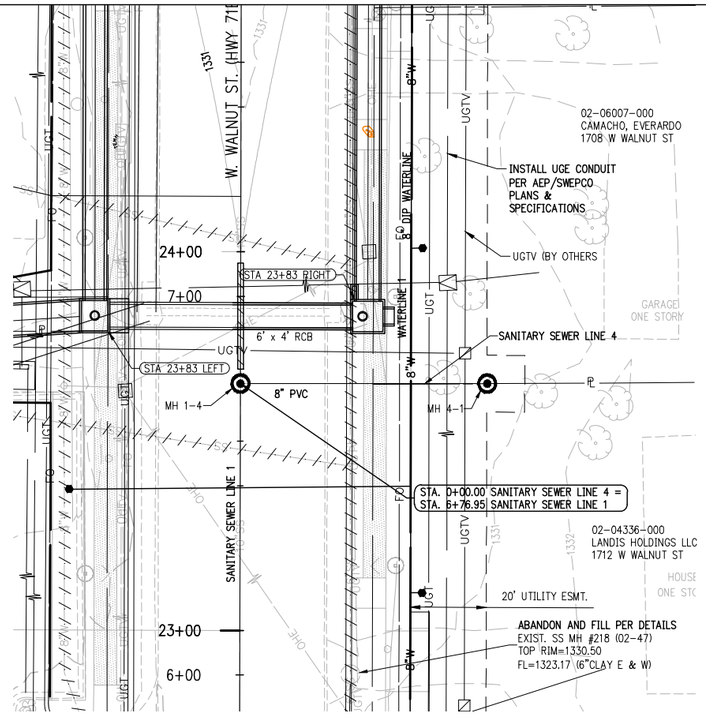
PIPE LENGTHS AND GRADES ARE CALCULATED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

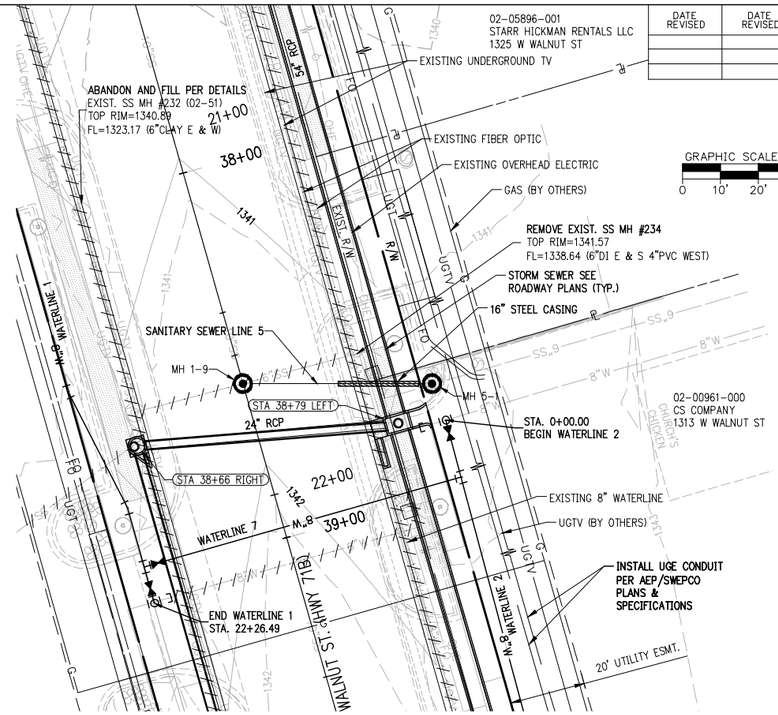


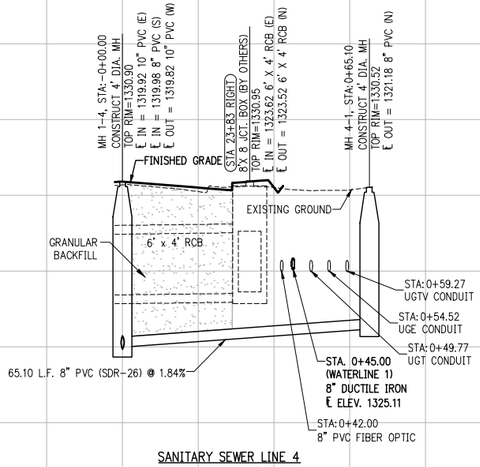
SANITARY SEWER LINE 3
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: G:\1410\400_WAINUT\05_INFRASTRUCTURE\CIVIL\DWG\SANITARY SEWER P&P.DWG
LAYOUT: SANITARY SEWER LINE 3 P&P - LAST SAVED: 12:39:1, 6/7/2023 10:32:00 AM
USER: CSTUBBS PENTAGON: PLOTTED: 6/7/2023 10:33:00 AM PLOTTED BY: CSTUBBS
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED AND SEALED ON HARD COPY ONLY!

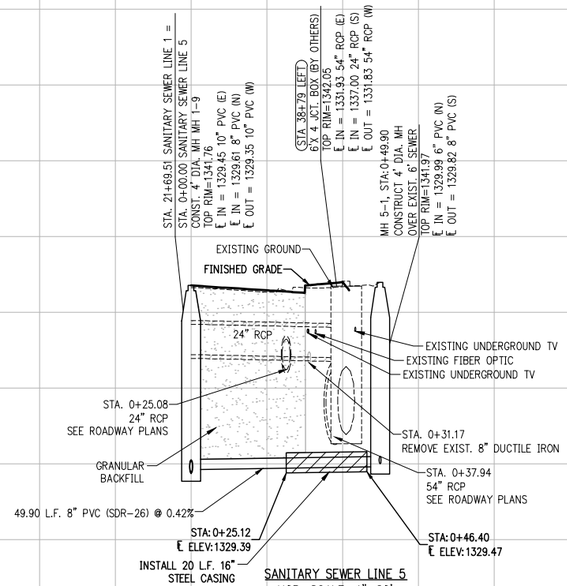
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	191	320
		SANITARY SEWER LINE 4&5 P&P				







SANITARY SEWER LINE 4
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'



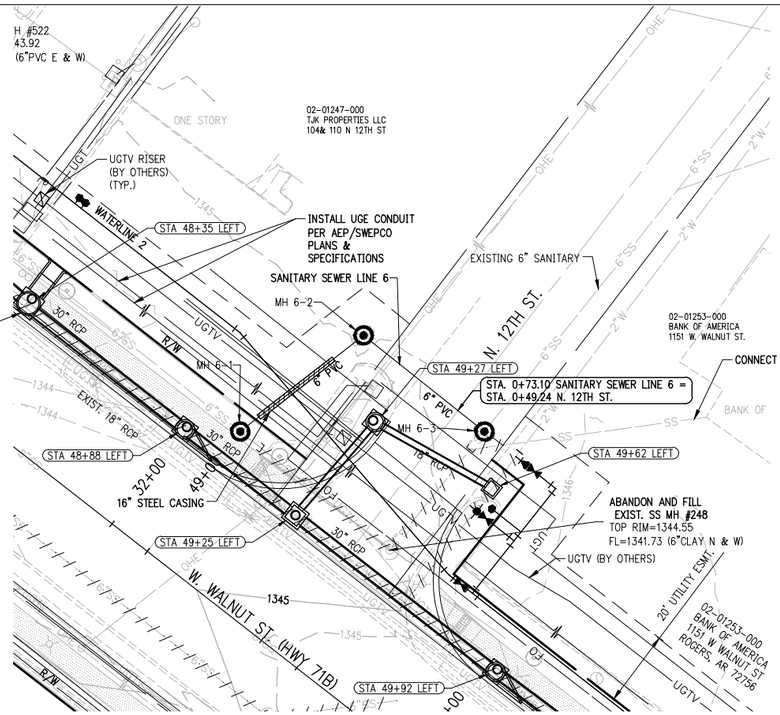
SANITARY SEWER LINE 5
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

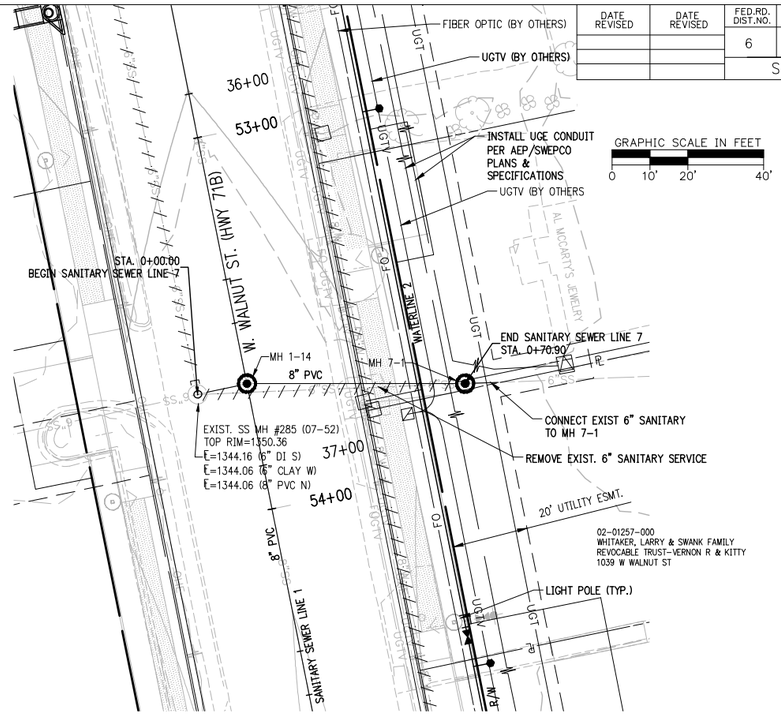
DRAWING: C:\1\01400_WALNUT\1_INFRASTRUCTURE\CIVIL\DWG\SEWER_LATERAL 5&P.DWG
LAYOUT: SANITARY SEWER LINE 4&5 P&P (C) (ASSAYER) 6/7/2023 3:47:15 PM
PLOTTED BY: BRIAN HUGHES (BRIAN.HUGHES@JACOBS.COM) 6/7/2023 3:47:15 PM (HALF-SCALE HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	192	320

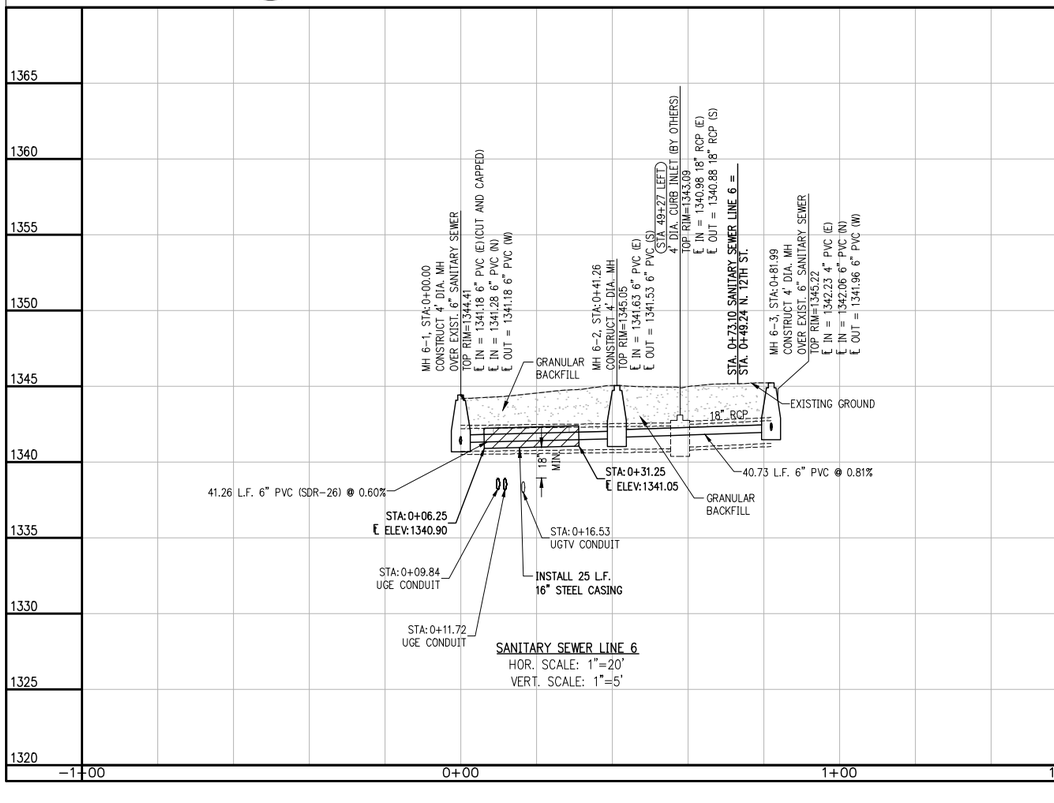
SANITARY SEWER LINE 6&7 P&P



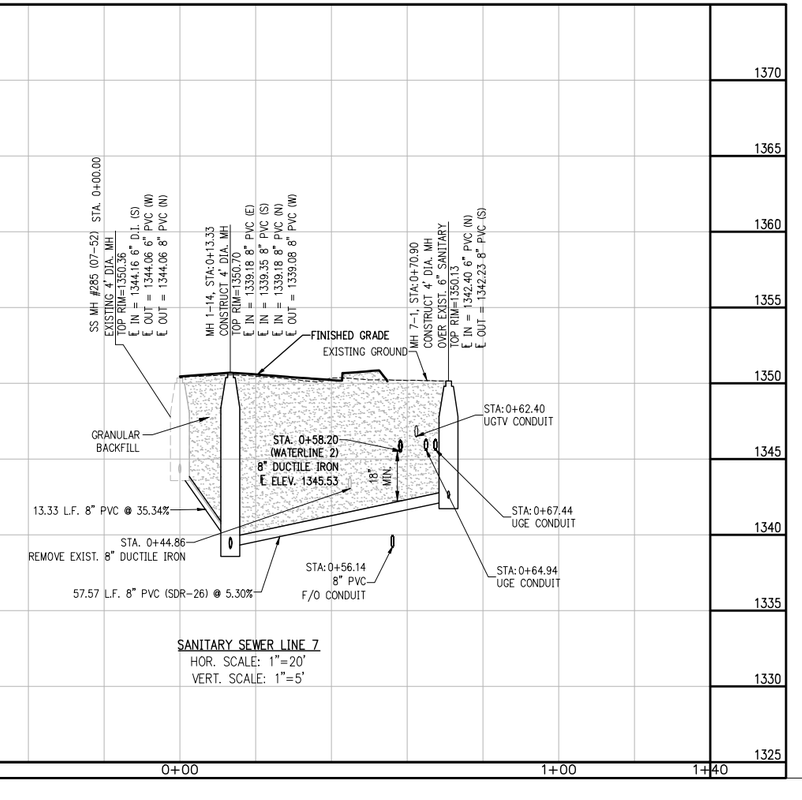
NOTE:
CONTRACTOR SHALL VERIFY EACH SANITARY SEWER SERVICE BY DYE TESTING OR OTHER APPROVED METHODS.
CONTRACTOR IS RESPONSIBLE FOR ENSURING SANITARY SEWER SERVICE LINES MAINTAIN UNIFORM SLOPE.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



SANITARY SEWER LINE 6
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'



SANITARY SEWER LINE 7
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: G:\16.0 ASD_PW\AUTOCAD\INFRASTRUCTURE\CIVIL\DWG\SEWER LATERAL P&P.DWG
LAYOUT: SANITARY SEWER LINE 6&7 P&P (C) LASTSAVED: 6/9/2023 10:03:23 AM by
CONTACT: PETER WARNER (PETER.WARNER@CITYOFROGERS.COM) (NON-HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	193	320
		SANITARY SEWER LINE 8 P&P				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

EXIST. 6" CLAY

02-05468-000
G & N HUBER COMMERCIAL LLC

02-01285-000
G & N HUBER COMMERCIAL LLC
1001 W WALNUT ST

ONE STORY BRICK

20' UTILITY ESMT.

FIBER OPTIC (BY OTHERS)

EXISTING OVERHEAD ELECTRIC

EXISTING 8" WATERLINE

EXIST. SS MH 08-14
TOP=1345.11
E IN=1336.96 (CL MH)
E IN=1339.02 (6" PVC S)

REMOVE EXIST. 6" SEWER LINE

0+00

1+00

2+00

MH 8-1

MH 8-2

MH 8-3

8" PVC
SANITARY SEWER LINE 8

S. 11TH ST.

ABANDON AND FILL PER DETAILS
EXIST. SS MH #287 (08-24)
TOP RIM=1347.78
FL=1323.17 (6"CLAY E.& W)

UGTV (BY OTHERS)

INSTALL UGE CONDUIT
PER AEP/SWEPCO
PLANS &
SPECIFICATIONS

20' ESMT.

CONNECT EXIST. SEWER
SERVICES TO NEW 8"
SEWER WITH 6" PVC

STA. 0+00.00
BEGIN SANITARY SEWER LINE 8

02-01284-000
BURTON INVESTMENT PROPERTIES LLC
1029 W WALNUT ST

UGT (BY OTHERS)

WATERLINE 2 - 8" DIP WATERLINE

STORM SEWER SEE
ROADWAY PLANS (TYP.)

02-05462-000
DELEON, TRACY A & JUAN CARLOS
105 N 11TH ST

02-05463-000
ROSE, ANGLEA MCKESSON
103 N 11TH ST

EXISTING UNDERGROUND TV

EXIST. SANITARY SERVICE.
APPROXIMATE LOCATION.
CONTRACTOR TO FIELD VERIFY
AND CONNECT TO NEW MAIN.

ABANDON AND FILL
EXISTING 8" SANITARY

LIGHT POLE (TYP.)

EXIST. SANITARY SERVICE.
APPROXIMATE LOCATION.
CONTRACTOR TO FIELD VERIFY
AND CONNECT TO MH 8-2.

02-01283-000
ROSE, ANGELA J
1031 W WALNUT ST

END SANITARY SEWER LINE 8
STA. 3+96.64

02373-000
ALL
DINGS INC
W
NUT ST

NOTE:
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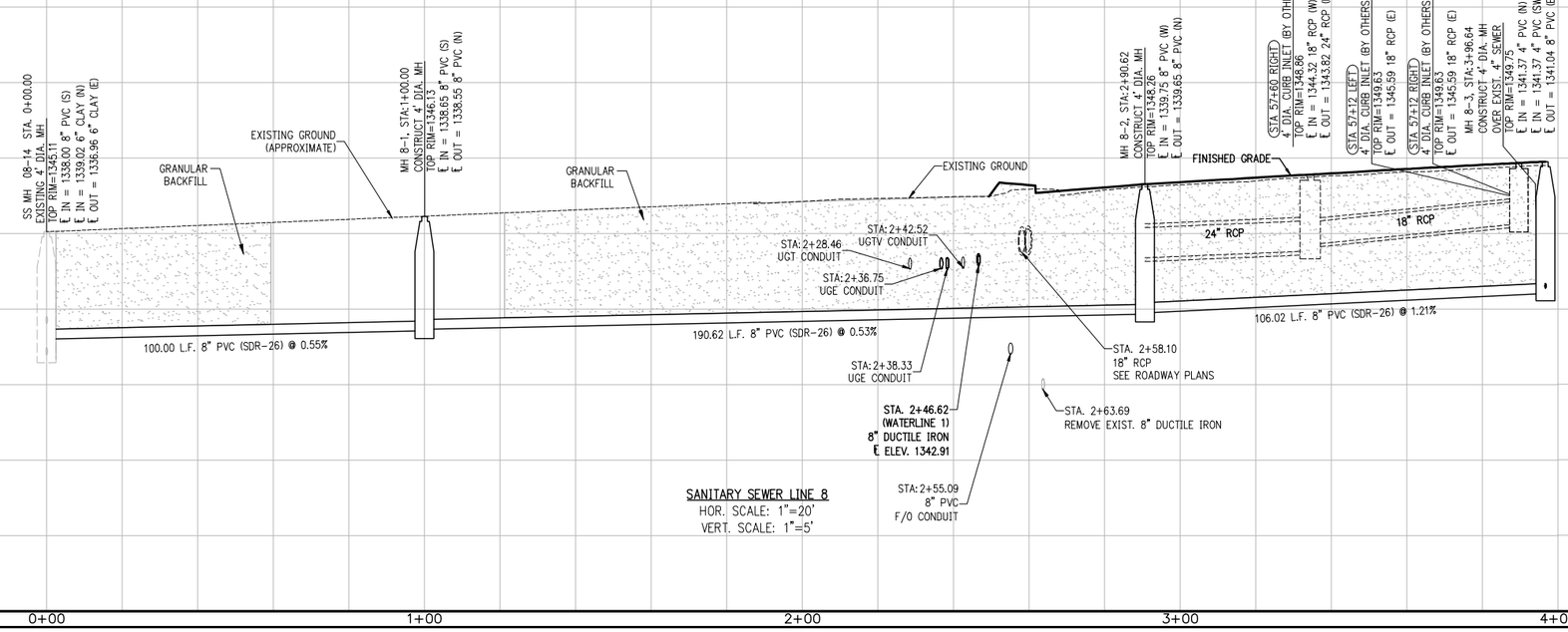
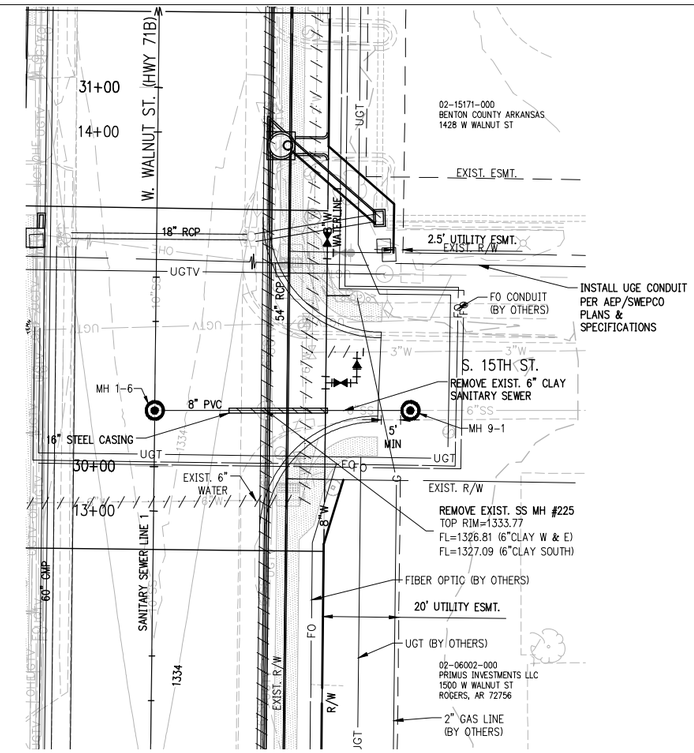


SANITARY SEWER LINE 8
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

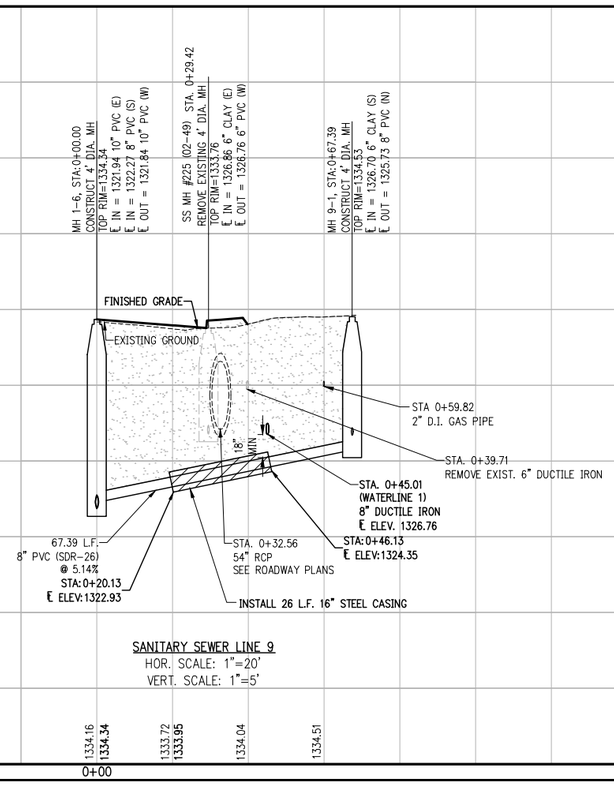
DRAWING: C:\650_ROJ\PAVEMENT\INFRASTRUCTURE\DWG\SEPHER LATERAL P&P.DWG
LAYOUT: SANITARY SEWER LINE 8 P&P (SEWER LINE 8 P&P) (JAY.ROSE 7/13/2023 10:30 AM)
XREF: C:\650_ROJ\PAVEMENT\INFRASTRUCTURE\DWG\PLAN SHEET.DWG (JAY.ROSE 7/13/2023 10:30 AM)
PLOTTED: 7/13/2023 10:30 AM BY ROSE, JAY (HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	194	320
		SANITARY SEWER LINE 9 P&P				



GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



SANITARY SEWER LINE 9
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\1\2021\090_WALNUT\TS_INFRASTRUCTURE\CIVIL\DWG\UTILITIES\PLAN&PROFILE\SANITARY SEWER LINE 9 P&P - LAST SAVED: 12/9/2022 5:10:38 PM
LAYOUT: SANITARY SEWER LINE 9 P&P - LAST PLOTTED: 12/9/2022 5:10:38 PM BY: TYLER BRAY
XREF: C:\1\2021\090_WALNUT\TS_INFRASTRUCTURE\CIVIL\DWG\UTILITIES\PLAN&PROFILE\PLAN&PROFILE.DWG

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	195	320
		WATERLINE 1 P&P SHT. 1				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MH 1-1
SANITARY SEWER LINE 1
10" PVC
MH 1-2
W. WALNUT ST. (HWY 71B)
SIGNAL POLE SEE SIGNAL PLANS
ABANDON AND FILL EXIST. 8" SS
LIGHT POLE (TYP.)
WATERLINE 1
STA. 0+00.00 BEGIN WATERLINE 1
INSTALL 6"X6" TAPPING SLEEVE AND VALVE 8"X6" REDUCER
INSTALL 8" 45° BENDS
STORM SEWER SEE ROADWAY PLANS (TYP.)
10" HPG (BY OTHERS)
EXIST. 6" WATERLINE APPROX. DEPTH AND LOCATION CONTRACTOR TO FIELD VERIFY
S. DIXIELAND RD.
NOTE: PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE
INSTALL NEW 1" SERVICE
ABANDON AND FILL EXIST. 8" WATERLINE
REMOVE EXIST. WATER SERVICES AND INSTALL NEW 1" SERVICE
UGTV (BY OTHERS)
INSTALL 8"X8" TEE AND 8" GATE VALVE
INSTALL 8" 11.25° BENDS
INSTALL 8" CAP
INSTALL 8" 90° BEND
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
EXIST. 8" WATERLINE APPROX. DEPTH AND LOCATION CONTRACTOR TO FIELD VERIFY
EXIST. 20' UTILITY ESMT.
EXIST. UTILITY ESMT. WIDTH VARIES
EXIST. 12" RCP TO REMAIN
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
EXIST. WATER SERVICE (TYP.)
MATCH LINE
WALGREENS
NEW BALANCE
TWO STORY HOUSE

STA. 0+00.00 6"X6" TAPPING SLEEVE AND VALVE
STA. 0+06.84 8"X6" REDUCER
STA. 0+52.38 8" 45° BEND
STA. 1+14.34 8" 45° BEND
STA. 9+45 RIGHT 6' DIA. ROUND INLET TOP RIM=1325.69 ℄ IN = 1321.26 18" RCP (S) ℄ IN = 1321.85 24" RCP (SE) ℄ OUT = 1320.74 36" RCP" (E)
STA. 18+11 RIGHT 5' DIA. ROUND INLET TOP RIM=1327.14 ℄ IN = 1320.46 36" RCP (W) ℄ OUT = 1320.46 36" RCP" (N)
STA. 19+86 RIGHT 5'X 5' JCT. BOX TOP RIM=1329.65 ℄ IN = 1325.95 18" RCP (E) ℄ OUT = 1325.85 18" RCP (N)
STA. 3+63.31 WATERLINE 1 = WATER SERVICE
STA. 4+06.83 8"X8" TEE & GATE VALVE
STA 21+15 RIGHT 4' DIA. ROUND INLET TOP RIM=1330.25 ℄ IN = 1326.55 18" RCP (SE) ℄ OUT = 1326.45 18" RCP" (W)
STA. 21+20 RIGHT 4' DIA. ROUND INLET TOP RIM=1331.43 ℄ OUT = 1326.62 18" RCP" (NW)
STA. 4+42.66 8" 11.25° BEND
STA. 4+70.99 8" 11.25° BEND
STA. 5+13.66 INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
FINISHED GRADE
GRANULAR BACKFILL
STA. 0+25.55 EXIST. 18" CMP SEE ROADWAY PLANS (TYP.)
STA. 0+40.34 18" RCP SEE ROADWAY PLANS (TYP.)
STA. 0+45.32 8" PVC FO CONDUIT (BY OTHERS) ℄ ELEV. 1316.69
STA. 0+75.69 10" HPG (BY OTHERS)
36" RCP
EXIST. 6" WATERLINE APPROXIMATE LOCATION AND DEPTH CONTRACTOR TO FIELD VERIFY
FG AT WALNUT ST ℄
EXISTING GROUND
INSTALL 8" DIP 350psi WATERLINE
STA. 2+96.21 4" PVC SANITARY SERVICE ℄ ELEV. 1321.06
18" RCP
STA. 3+96.67 UGE CONDUIT
STA. 3+99.15 8" DUCTILE IRON ℄ ELEV. 1326.21 ABANDON AND FILL
STA. 4+52.16 4" PVC SANITARY SERVICE ℄ ELEV. 1321.49
STA. 4+46.77 EXIST. 12" RCP SEE ROADWAY PLANS (TYP.)
GRANULAR BACKFILL

WATERLINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\ASSET #'S2-VFAILITY\INFRASTRUCTURE CENTRAL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 1 P&P SHT. LAST SAVED: 7/12/2023 8:54:40 AM
LAST PLOTTED: 7/12/2023 8:54:40 AM BY: MATTHEW.SCHMIDT
"VALID ON HARD COPY ONLY"

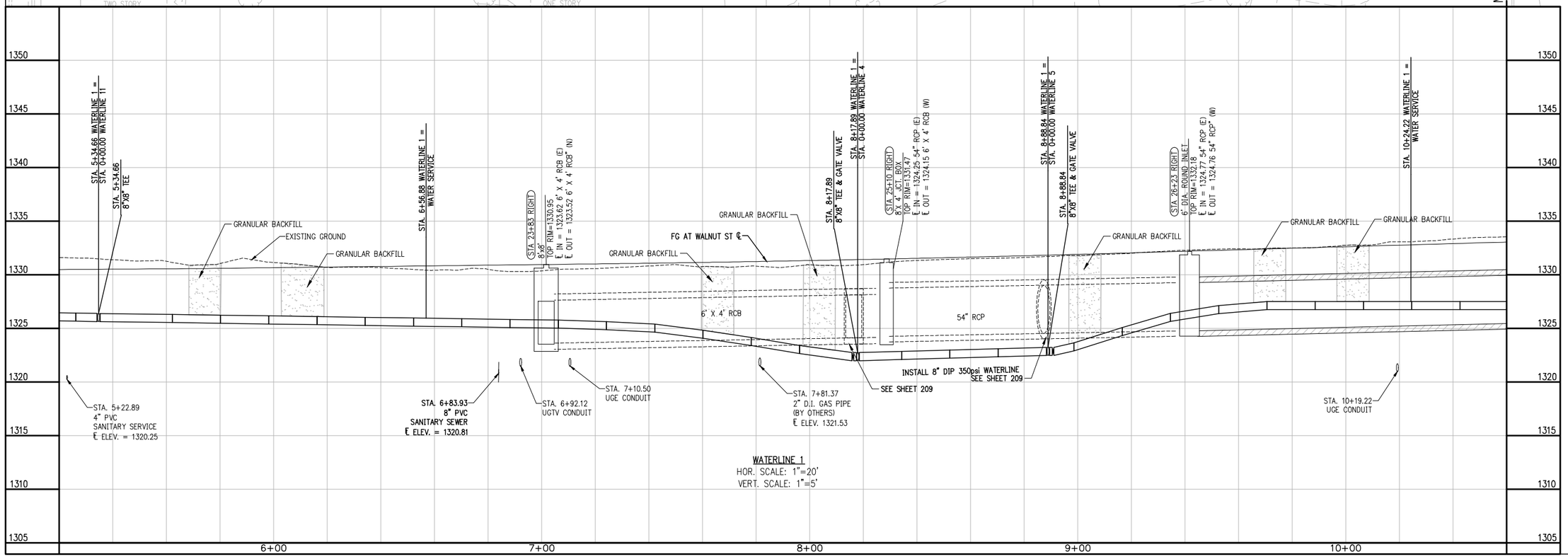
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	196	320
		WATERLINE 1 P&P SHT. 2				

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

CONNECT EXIST. SERVICES TO NEW MAIN
END WATERLINE 11 STA. 0+86.37
STA. 0+45.00 WATERLINE 11 = STA. 22+16.01 W. WALNUT ST. (HWY 71B)
SALVAGE FH ASSEMBLY AND RETURN TO RWU
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
INSTALL 1-8"X6" REDUCER 1-FH ASSEMBLY
REMOVE EXIST. WATER SERVICE AND INSTALL NEW 1" SERVICE
WATERLINE 11
8" DIP WATERLINE
4" PVC
SANITARY SEWER LINE 1
10" PVC
MH 1-3
MH 1-4
CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD. PLUG VALVE AND ABANDON.
REMOVE EXIST. 6" SS
INSTALL 8" TEE AND 8" GATE VALVE
WATERLINE 1
LIGHT POLE (TYP.)
STA. 5+34.66 WATERLINE 1 = STA. 0+00.00 WATERLINE 11
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
UGTV (BY OTHERS)
MH 4-1
UGTV RISER (BY OTHERS) (TYP.)
INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)
STORM SEWER SEE ROADWAY PLANS (TYP.)
STA. 0+45.00 WATERLINE 4 = STA. 24+99.22 W. WALNUT ST. (HWY 71B)
STA. 8+17.89 WATERLINE 1 = STA. 0+00.00 WATERLINE 4
GAS (BY OTHERS)
EXIST. 8" WATERLINE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
INSTALL NEW 1" SERVICE
END WATERLINE 4 STA. 1+15.93
INSTALL 8" CAP
6' X 4' RCB
16" STEEL CASING
INSTALL 8"X8" TEE AND 1-8" GATE VALVE
STA. 8+88.84 WATERLINE 1 = STA. 0+00.00 WATERLINE 5
STA. 0+45.00 WATERLINE 5 = STA. 25+70.18 W. WALNUT ST. (HWY 71B)
W. WALNUT ST. (HWY 71B)
END WATERLINE 5 STA. 1+23.77
EXIST. 8" WATERLINE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
INSTALL 8" CAP
CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD. PLUG VALVE AND ABANDON.
INSTALL NEW 1" SERVICE
ABANDON AND FILL EXIST. 8" WATERLINE
MH 1-5
INSTALL NEW 1" SERVICE
SANITARY SEWER LINE 1
WATERLINE 5
8" DIP WATERLINE
INSTALL 8"X8" TEE AND 8" GATE VALVE
20' UTILITY ESMT.
MATCH LINE
MATCH LINE
TWO STORY
ONE STORY



WATERLINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING C:\610 RD_WALNUT\UTILITY\INFRASTRUCTURE\DTM\LDWG\WATER P&P.DWG
LAYOUT: WATERLINE 1 P&P SHT. 2 - LAST SAVED: 7/20/2023 8:54:40 AM
LAST PLOTTED: 7/20/2023 8:55:11 AM BY: WILLIAM.BURNETT (THIS DRAWING IS NOT VALID ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	197	320
		WATERLINE 1 P&P SHT. 3				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

W. WALNUT ST. (HWY 71B)

MATCH LINE

MATCH LINE

SANITARY SEWER LINE 1

11+00 12+00 13+00 14+00 15+00

INSTALL NEW 1" SERVICE

REMOVE EXIST. 8" WATERLINE

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXIST. WATER SERVICE AND INSTALL NEW 1" SERVICE (TYP.)

ABANDON AND FILL EXIST. 6" WATERLINE PLUG VALVE

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

INSTALL NEW 1" SERVICE

MH 1-6

16" STEEL CASING

REMOVE EXIST. 6" SS

CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD. PLUG VALVE AND ABANDON.

STA. 13+45.78 WATERLINE 1 = STA. 0+09.94 S. 15TH ST.

EXIST. 24" RCP

REMOVE EXIST. 2" WATERLINE

INSTALL NEW 1" SERVICE

LIGHT POLE (TYP.)

STA: 11+60.79

REMOVE EXIST. SERVICE AND INSTALL NEW 1" SERVICE (TYP.)

GAS (BY OTHERS)

UGT (BY OTHERS)

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

INSTALL 8"X8" TEE AND 8" GATE VALVE

INSTALL 8" 90° BEND

INSTALL 8" GATE VALVE

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

INSTALL NEW 1" SERVICE

INSTALL 8"X4" REDUCER
4" 90° BEND
4"X3" COMPRESSION COUPLING

EXIST. SANITARY SERVICE APPROXIMATE LOCATION (TYP.)

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

S. 15TH ST.

20' UTILITY ESMT.

20' UTILITY ESMT.

PINK BAG

ONE STORY HOUSE

BENTON COUNTY OFFICES

1355 1350 1345 1340 1335 1330 1325 1320 1315 1310

STA. 11+15.99 WATERLINE 1 = WATER SERVICE

STA. 11+60.79 INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

(STA. 28+80 RIGHT) 6' DIA. ROUND INLET TOP RIM=1333.86 ℄ IN = 1326.36 54" RCP (E) ℄ OUT = 1326.26 54" RCP" (W)

FG AT WALNUT ST ℄

STA. 12+96.72 WATERLINE 1 = WATER SERVICE

GRANULAR BACKFILL

STA. 13+41.27 8"X8" TEE & GATE VALVE

STA. 13+45.78 WATERLINE 1 = STA. 0+09.94 S. 15TH ST.

STA. 13+75.64 INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY 8" GATE VALVE

STA. 13+86.62 WATERLINE 1 = WATER SERVICE

(STA. 30+85 RIGHT) 6' DIA. ROUND INLET TOP RIM=1334.53 ℄ IN = 1327.55 54" RCP (E) ℄ IN = 1330.14 24" RCP (SW) ℄ OUT = 1327.45 54" RCP" (W)

STA. 14+38.71 WATERLINE 1 = WATER SERVICE

EXISTING GROUND

GRANULAR BACKFILL

STA. 15+73.04 WATERLINE 1 = WATER SERVICE

(STA. 32+65 RIGHT) 6' DIA. ROUND INLET TOP RIM=1335.05 ℄ IN = 1328.42 54" RCP (E) ℄ OUT = 1328.32 54" RCP" (W)

54" RCP

54" RCP

54" RCP

STA. 13+21.78 UGT CONDUIT

18" MIN.

STA. 13+19.00 8" PVC FO CONDUIT (BY OTHERS) ℄ ELEV. 1324.16

STA. 13+33.93 8" PVC SANITARY SEWER ℄ ELEV. = 1324.58

STA. 13+49.31 REMOVE EXIST. 3" WATERLINE

STA. 13+82.67 EXIST. 24" RCP SEE ROADWAY PLANS (TYP.)

STA. 13+72.58 UGE CONDUIT

STA. 13+95.57 24" RCP SEE ROADWAY PLANS (TYP.)

STA. 10+63.06 4" PVC SANITARY SERVICE ℄ ELEV. 1321.75

STA. 11+49.89 4" PVC SANITARY SERVICE ℄ ELEV. 1322.48

STA. 14+91.24 4" PVC SANITARY SERVICE ℄ ELEV. 1323.76

10+60 11+00 12+00 13+00 14+00 15+00 16+00

WATERLINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\610 RD\ARKANSAS\UTILITY\INFRASTRUCTURE\DTM\LDWG\WATER P&P.DWG
LAYOUT: WATERLINE 1 P&P SHT. 3 - JOB 090338 (7/7/2023 8:57:03 AM CDT)
LAST SAVED BY: WILLIAM BURNETT (7/7/2023 8:57:03 AM CDT) VALID ON HARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	198	320
		WATERLINE 1 P&P SHT. 4				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

INSTALL 6"X6" TAPPING SLEEVE AND VALVE
8"X6" REDUCER
GAS (BY OTHERS)
INSTALL 6" CAP
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
INSTALL 8" 45° BENDS
16" STEEL CASING
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
UGTV RISER (BY OTHERS) (TYP.)
GAS (BY OTHERS)
UGTV (BY OTHERS)
N. 14TH
20' UTILITY ESMT.
REMOVE EXIST. 8" WATERLINE
STORM SEWER SEE ROADWAY PLANS (TYP.)
END WATERLINE 6
STA. 1+32.77
STA. 0+45.00 WATERLINE 6 =
STA. 34+45.74 W. WALNUT ST. (HWY 71B)
REMOVE EXIST. WATER SERVICES AND INSTALL NEW SERVICES (TYP.)
CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD
ABANDON AND FILL EXIST. 8" WATERLINE
INSTALL NEW 1" SERVICE
SANITARY SEWER LINE 1
MH 1-7
W. WALNUT ST. (HWY 71B)
MH 1-8
WATERLINE 6
REMOVE EXIST. 6" SS
CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWJ YARD. PLUG VALVE AND ABANDON.
STA. 17+64.40 WATERLINE 1 = STA. 0+00.00 WATERLINE 6
EXIST. 18" RCP
4" PVC
WATERLINE 1
8" DIP WATERLINE
EXIST. R/W
INSTALL 1" SERVICE (TYP.)
16" STEEL CASING
NOTE: PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE
INSTALL 8"X8" TEE AND 2-8" GATE VALVES
LIGHT POLE (TYP.)
GAS (BY OTHERS)
EXIST. SANITARY SERVICE APPROXIMATE LOCATION (TYP.)
REMOVE EXIST. WATER SERVICES AND INSTALL NEW SERVICES (TYP.)
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
REMOVE EXIST. WATER SERVICES AND INSTALL NEW SERVICES (TYP.)
20' UTILITY ESMT.
ABANDON AND FILL PER [
EXIST. SS M
TOP RIM=
FL=1334.36 (6"CLAY
STA. 22+
STA.
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
MATCH LINE
MATCH LINE
THE QUARTER SHOPPING CENTER
THE QUARTER SHOPPING CENTER
TST EMPLOYMENT
MEINEKE

STA. 16+52.50 WATERLINE 1 = WATER SERVICE
STA. 16+19.71
4" PVC
SANITARY SERVICE
℄ ELEV. 1326.54
54" RCP
GRANULAR BACKFILL
STA. 17+28.17
UGE CONDUIT
STA. 17+36.10
℄ ELEV. 1328.62
STA. 17+20 (RIGHT)
6'-0" DIA. ROUND INLET
TOP RIM = 1339.72
℄ IN = 1330.16 54" RCP (SE)
℄ OUT = 1330.16 54" RCP" (W)
STA. 17+46.10
54" RCP
SEE ROADWAY PLANS (TYP.)
INSTALL 20 L.F.
16" STEEL CASING
STA. 17+64.40
8"X8" TEE & GATE VALVE
STA. 17+72.70 WATERLINE 1 =
STA. 0+00.00 WATERLINE 6
STA:17+56.10
℄ ELEV:1328.62
STA. 17+80.53
4" PVC
SANITARY SERVICE
℄ ELEV. 1326.91
FG AT WALNUT ST ℄
STA. 18+38.54
2" D.I. GAS PIPE
(BY OTHERS)
℄ ELEV. 1332.28
GRANULAR BACKFILL
EXISTING GROUND
INSTALL 8" DIP 350psi WATERLINE
STA. 19+01.86
4" PVC
SANITARY SERVICE
℄ ELEV. 1327.43
STA. 19+67.68 WATERLINE 1 = WATER SERVICE
STA. 19+72.41
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
STA. 19+94.49
UGE CONDUIT
STA. 20+14.38 WATERLINE 1 = WATER SERVICE
STA. 20+19.54
UGTV CONDUIT
GRANULAR BACKFILL
STA. 37+12 (RIGHT)
4'-0" DIA. ROUND INLET
TOP RIM=1339.70
℄ IN = 1335.83 18" RCP (S)
℄ OUT = 1335.33 24" RCP" (N)
STA. 20+22.94
EXIST. 18" RCP
SEE ROADWAY PLANS
(TYP.)
STA. 20+55.06 WATERLINE 1 = WATER SERVICE
GRANULAR BACKFILL
STA. 20+31.58
18" RCP
SEE ROADWAY PLANS (TYP.)
STA. 20+45.91
4" PVC
SANITARY SERVICE
℄ ELEV. 1332.84

WATERLINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

1360 1355 1350 1345 1340 1335 1330 1325 1320 1315
16+00 17+00 18+00 19+00 20+00 21+00

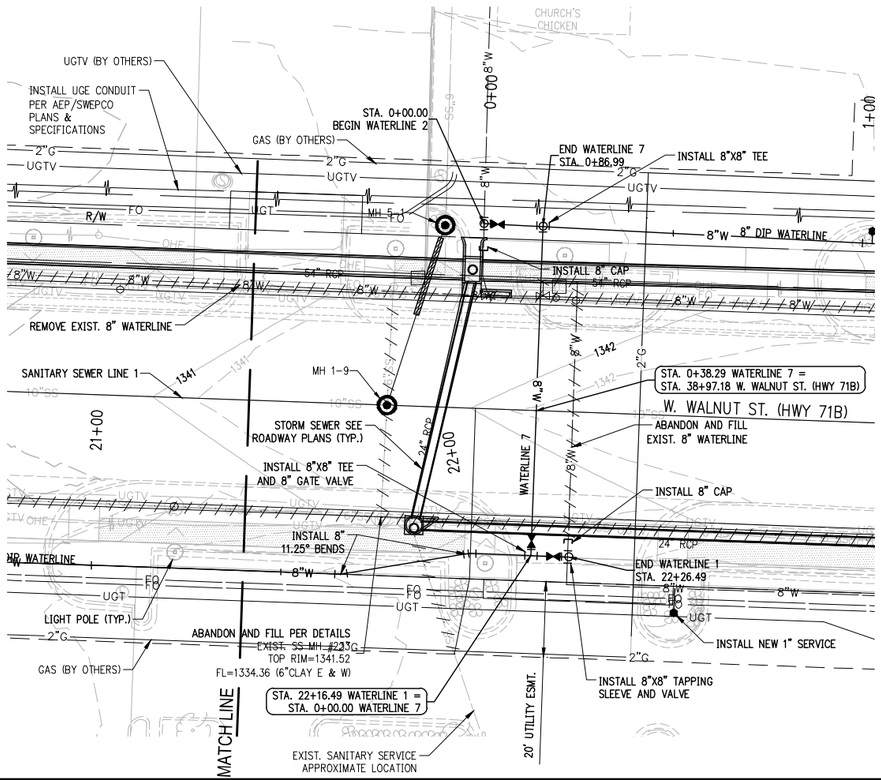
DRAWING: G:\16\0180_WALNUT\TI_INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATER P&P 4 | TAB: SHT. 4 | LAST SAVED: 5/31/23 4:51 PM by TSTUTTS
PLOTTED: 6/1/23 8:36 AM by TSTUTTS | PW:\\Client\Documents - VALID ON HARD COPY ONLY!

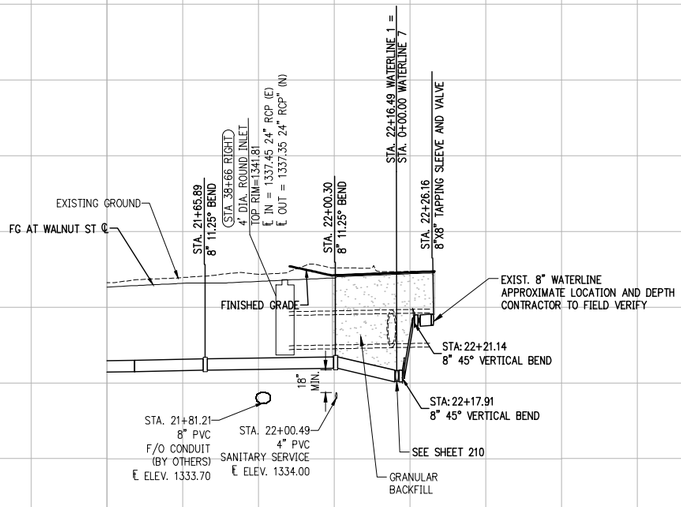
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	199	320
		WATERLINE 1 P&P SHT. 5				

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23





WATERLINE 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\1410 ADL\PAVING\TDT_INFRASTRUCTURE\DRAWING\WATER P&P.DWG
LAYOUT: WATER P&P SHT 5 - LAST SAVED: 7/7/2023 9:20:03 AM
USER: TDT - XREF: WATER P&P SHT 1.DWG, WATER P&P SHT 2.DWG, WATER P&P SHT 3.DWG, WATER P&P SHT 4.DWG, WATER P&P SHT 5.DWG, WATER P&P SHT 6.DWG, WATER P&P SHT 7.DWG, WATER P&P SHT 8.DWG, WATER P&P SHT 9.DWG, WATER P&P SHT 10.DWG, WATER P&P SHT 11.DWG, WATER P&P SHT 12.DWG, WATER P&P SHT 13.DWG, WATER P&P SHT 14.DWG, WATER P&P SHT 15.DWG, WATER P&P SHT 16.DWG, WATER P&P SHT 17.DWG, WATER P&P SHT 18.DWG, WATER P&P SHT 19.DWG, WATER P&P SHT 20.DWG, WATER P&P SHT 21.DWG, WATER P&P SHT 22.DWG, WATER P&P SHT 23.DWG, WATER P&P SHT 24.DWG, WATER P&P SHT 25.DWG, WATER P&P SHT 26.DWG, WATER P&P SHT 27.DWG, WATER P&P SHT 28.DWG, WATER P&P SHT 29.DWG, WATER P&P SHT 30.DWG, WATER P&P SHT 31.DWG, WATER P&P SHT 32.DWG, WATER P&P SHT 33.DWG, WATER P&P SHT 34.DWG, WATER P&P SHT 35.DWG, WATER P&P SHT 36.DWG, WATER P&P SHT 37.DWG, WATER P&P SHT 38.DWG, WATER P&P SHT 39.DWG, WATER P&P SHT 40.DWG, WATER P&P SHT 41.DWG, WATER P&P SHT 42.DWG, WATER P&P SHT 43.DWG, WATER P&P SHT 44.DWG, WATER P&P SHT 45.DWG, 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SHT 91.DWG, WATER P&P SHT 92.DWG, WATER P&P SHT 93.DWG, WATER P&P SHT 94.DWG, WATER P&P SHT 95.DWG, WATER P&P SHT 96.DWG, WATER P&P SHT 97.DWG, WATER P&P SHT 98.DWG, WATER P&P SHT 99.DWG, WATER P&P SHT 100.DWG, WATER P&P SHT 101.DWG, WATER P&P SHT 102.DWG, WATER P&P SHT 103.DWG, WATER P&P SHT 104.DWG, WATER P&P SHT 105.DWG, WATER P&P SHT 106.DWG, WATER P&P SHT 107.DWG, WATER P&P SHT 108.DWG, WATER P&P SHT 109.DWG, WATER P&P SHT 110.DWG, WATER P&P SHT 111.DWG, WATER P&P SHT 112.DWG, WATER P&P SHT 113.DWG, WATER P&P SHT 114.DWG, WATER P&P SHT 115.DWG, WATER P&P SHT 116.DWG, WATER P&P SHT 117.DWG, WATER P&P SHT 118.DWG, WATER P&P SHT 119.DWG, WATER P&P SHT 120.DWG, WATER P&P SHT 121.DWG, WATER P&P SHT 122.DWG, WATER P&P SHT 123.DWG, WATER P&P SHT 124.DWG, WATER P&P SHT 125.DWG, WATER P&P SHT 126.DWG, WATER P&P SHT 127.DWG, WATER P&P SHT 128.DWG, WATER P&P SHT 129.DWG, WATER P&P SHT 130.DWG, WATER P&P SHT 131.DWG, WATER P&P SHT 132.DWG, WATER P&P SHT 133.DWG, WATER P&P SHT 134.DWG, WATER 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308.DWG, WATER P&P SHT 309.DWG, WATER P&P SHT 310.DWG, WATER P&P SHT 311.DWG, WATER P&P SHT 312.DWG, WATER P&P SHT 313.DWG, WATER P&P SHT 314.DWG, WATER P&P SHT 315.DWG, WATER P&P SHT 316.DWG, WATER P&P SHT 317.DWG, WATER P&P SHT 318.DWG, WATER P&P SHT 319.DWG, WATER P&P SHT 320.DWG
PLOTTED: 7/7/2023 9:20:03 AM BY: TDT
XREF: WATER P&P SHT 1.DWG, WATER P&P SHT 2.DWG, WATER P&P SHT 3.DWG, WATER P&P SHT 4.DWG, WATER P&P SHT 5.DWG, WATER P&P SHT 6.DWG, WATER P&P SHT 7.DWG, WATER P&P SHT 8.DWG, WATER P&P SHT 9.DWG, WATER P&P SHT 10.DWG, WATER P&P SHT 11.DWG, WATER P&P SHT 12.DWG, WATER P&P SHT 13.DWG, WATER P&P SHT 14.DWG, WATER P&P SHT 15.DWG, WATER P&P SHT 16.DWG, WATER P&P SHT 17.DWG, WATER P&P SHT 18.DWG, WATER P&P SHT 19.DWG, WATER P&P SHT 20.DWG, WATER P&P SHT 21.DWG, WATER P&P SHT 22.DWG, WATER P&P SHT 23.DWG, WATER P&P SHT 24.DWG, WATER P&P SHT 25.DWG, WATER P&P SHT 26.DWG, WATER P&P SHT 27.DWG, WATER P&P SHT 28.DWG, WATER P&P SHT 29.DWG, WATER P&P SHT 30.DWG, WATER P&P SHT 31.DWG, WATER P&P SHT 32.DWG, WATER P&P SHT 33.DWG, WATER P&P SHT 34.DWG, WATER P&P SHT 35.DWG, WATER P&P SHT 36.DWG, WATER P&P SHT 37.DWG, WATER P&P SHT 38.DWG, WATER P&P SHT 39.DWG, WATER P&P SHT 40.DWG, WATER P&P SHT 41.DWG, WATER P&P SHT 42.DWG, WATER P&P SHT 43.DWG, WATER P&P SHT 44.DWG, WATER P&P SHT 45.DWG, WATER P&P SHT 46.DWG, WATER P&P SHT 47.DWG, WATER P&P SHT 48.DWG, WATER P&P SHT 49.DWG, WATER P&P SHT 50.DWG, WATER P&P SHT 51.DWG, WATER P&P SHT 52.DWG, WATER P&P SHT 53.DWG, WATER P&P SHT 54.DWG, WATER P&P SHT 55.DWG, WATER P&P SHT 56.DWG, WATER P&P SHT 57.DWG, WATER P&P SHT 58.DWG, WATER P&P SHT 59.DWG, WATER P&P SHT 60.DWG, WATER P&P SHT 61.DWG, WATER P&P SHT 62.DWG, WATER P&P SHT 63.DWG, WATER P&P SHT 64.DWG, WATER P&P SHT 65.DWG, WATER P&P SHT 66.DWG, WATER P&P SHT 67.DWG, WATER P&P SHT 68.DWG, WATER P&P SHT 69.DWG, WATER P&P SHT 70.DWG, WATER P&P SHT 71.DWG, WATER P&P SHT 72.DWG, WATER P&P SHT 73.DWG, WATER P&P SHT 74.DWG, WATER P&P SHT 75.DWG, WATER P&P SHT 76.DWG, WATER P&P SHT 77.DWG, WATER P&P SHT 78.DWG, WATER P&P SHT 79.DWG, WATER P&P SHT 80.DWG, WATER P&P SHT 81.DWG, WATER P&P SHT 82.DWG, WATER P&P SHT 83.DWG, WATER P&P SHT 84.DWG, WATER P&P SHT 85.DWG, WATER P&P SHT 86.DWG, WATER P&P SHT 87.DWG, WATER P&P SHT 88.DWG, WATER P&P SHT 89.DWG, WATER P&P SHT 90.DWG, WATER P&P SHT 91.DWG, WATER P&P SHT 92.DWG, WATER P&P SHT 93.DWG, WATER P&P SHT 94.DWG, WATER P&P SHT 95.DWG, WATER P&P SHT 96.DWG, WATER P&P SHT 97.DWG, WATER P&P SHT 98.DWG, WATER P&P SHT 99.DWG, WATER P&P SHT 100.DWG, WATER P&P SHT 101.DWG, WATER P&P SHT 102.DWG, WATER P&P SHT 103.DWG, WATER P&P SHT 104.DWG, WATER P&P SHT 105.DWG, WATER P&P SHT 106.DWG, WATER P&P SHT 107.DWG, WATER P&P SHT 108.DWG, WATER P&P SHT 109.DWG, WATER P&P SHT 110.DWG, WATER P&P SHT 111.DWG, WATER P&P SHT 112.DWG, WATER P&P SHT 113.DWG, WATER P&P SHT 114.DWG, WATER P&P SHT 115.DWG, WATER P&P SHT 116.DWG, WATER P&P SHT 117.DWG, WATER P&P SHT 118.DWG, WATER P&P SHT 119.DWG, WATER P&P SHT 120.DWG, WATER P&P SHT 121.DWG, WATER P&P SHT 122.DWG, WATER P&P SHT 123.DWG, WATER P&P SHT 124.DWG, WATER P&P SHT 125.DWG, WATER P&P SHT 126.DWG, WATER P&P SHT 127.DWG, WATER P&P SHT 128.DWG, WATER P&P SHT 129.DWG, WATER P&P SHT 130.DWG, WATER P&P SHT 131.DWG, WATER P&P SHT 132.DWG, WATER P&P SHT 133.DWG, WATER P&P SHT 134.DWG, WATER P&P SHT 135.DWG, WATER P&P SHT 136.DWG, WATER P&P SHT 137.DWG, WATER P&P SHT 138.DWG, WATER P&P SHT 139.DWG, WATER P&P SHT 140.DWG, WATER P&P SHT 141.DWG, WATER P&P SHT 142.DWG, WATER P&P SHT 143.DWG, WATER P&P SHT 144.DWG, WATER P&P SHT 145.DWG, WATER P&P SHT 146.DWG, WATER P&P SHT 147.DWG, WATER P&P SHT 148.DWG, WATER P&P SHT 149.DWG, WATER P&P SHT 150.DWG, WATER P&P SHT 151.DWG, WATER P&P SHT 152.DWG, WATER P&P SHT 153.DWG, WATER P&P SHT 154.DWG, WATER P&P SHT 155.DWG, WATER P&P SHT 156.DWG, WATER P&P SHT 157.DWG, WATER P&P SHT 158.DWG, WATER P&P SHT 159.DWG, WATER P&P SHT 160.DWG, WATER P&P SHT 161.DWG, WATER P&P SHT 162.DWG, WATER P&P SHT 163.DWG, WATER P&P SHT 164.DWG, WATER P&P SHT 165.DWG, WATER P&P SHT 166.DWG, WATER P&P SHT 167.DWG, WATER P&P SHT 168.DWG, WATER P&P SHT 169.DWG, WATER P&P SHT 170.DWG, WATER P&P SHT 171.DWG, WATER P&P SHT 172.DWG, WATER P&P SHT 173.DWG, WATER P&P SHT 174.DWG, WATER P&P SHT 175.DWG, WATER P&P SHT 176.DWG, WATER P&P SHT 177.DWG, WATER P&P SHT 178.DWG, WATER P&P SHT 179.DWG, WATER P&P SHT 180.DWG, WATER P&P SHT 181.DWG, WATER P&P SHT 182.DWG, WATER P&P SHT 183.DWG, WATER P&P SHT 184.DWG, WATER P&P SHT 185.DWG, WATER P&P SHT 186.DWG, WATER P&P SHT 187.DWG, WATER P&P SHT 188.DWG, WATER P&P SHT 189.DWG, WATER P&P SHT 190.DWG, WATER P&P SHT 191.DWG, WATER P&P SHT 192.DWG, WATER P&P SHT 193.DWG, WATER P&P SHT 194.DWG, WATER P&P SHT 195.DWG, WATER P&P SHT 196.DWG, WATER P&P SHT 197.DWG, WATER P&P SHT 198.DWG, WATER P&P SHT 199.DWG, WATER P&P SHT 200.DWG, WATER P&P SHT 201.DWG, WATER P&P SHT 202.DWG, WATER P&P SHT 203.DWG, WATER P&P SHT 204.DWG, WATER P&P SHT 205.DWG, WATER P&P SHT 206.DWG, WATER P&P SHT 207.DWG, WATER P&P SHT 208.DWG, WATER P&P SHT 209.DWG, WATER P&P SHT 210.DWG, WATER P&P SHT 211.DWG, WATER P&P SHT 212.DWG, WATER P&P SHT 213.DWG, WATER P&P SHT 214.DWG, WATER P&P SHT 215.DWG, WATER P&P SHT 216.DWG, WATER P&P SHT 217.DWG, WATER P&P SHT 218.DWG, WATER P&P SHT 219.DWG, WATER P&P SHT 220.DWG, WATER P&P SHT 221.DWG, WATER P&P SHT 222.DWG, WATER P&P SHT 223.DWG, WATER P&P SHT 224.DWG, WATER P&P SHT 225.DWG, WATER P&P SHT 226.DWG, WATER P&P SHT 227.DWG, WATER P&P SHT 228.DWG, WATER P&P SHT 229.DWG, WATER P&P SHT 230.DWG, WATER P&P SHT 231.DWG, WATER P&P SHT 232.DWG, WATER P&P SHT 233.DWG, WATER P&P SHT 234.DWG, WATER P&P SHT 235.DWG, WATER P&P SHT 236.DWG, WATER P&P SHT 237.DWG, WATER P&P SHT 238.DWG, WATER P&P SHT 239.DWG, WATER P&P SHT 240.DWG, WATER P&P SHT 241.DWG, WATER P&P SHT 242.DWG, WATER P&P SHT 243.DWG, WATER P&P SHT 244.DWG, WATER P&P SHT 245.DWG, WATER P&P SHT 246.DWG, WATER P&P SHT 247.DWG, WATER P&P SHT 248.DWG, WATER P&P SHT 249.DWG, WATER P&P SHT 250.DWG, WATER P&P SHT 251.DWG, WATER P&P SHT 252.DWG, WATER P&P SHT 253.DWG, WATER P&P SHT 254.DWG, WATER P&P SHT 255.DWG, WATER P&P SHT 256.DWG, WATER P&P SHT 257.DWG, WATER P&P SHT 258.DWG, WATER P&P SHT 259.DWG, WATER P&P SHT 260.DWG, WATER P&P SHT 261.DWG, WATER P&P SHT 262.DWG, WATER P&P SHT 263.DWG, WATER P&P SHT 264.DWG, WATER P&P SHT 265.DWG, WATER P&P SHT 266.DWG, WATER P&P SHT 267.DWG, WATER P&P SHT 268.DWG, WATER P&P SHT 269.DWG, WATER P&P SHT 270.DWG, WATER P&P SHT 271.DWG, WATER P&P SHT 272.DWG, WATER P&P SHT 273.DWG, WATER P&P SHT 274.DWG, WATER P&P SHT 275.DWG, WATER P&P SHT 276.DWG, WATER P&P SHT 277.DWG, WATER P&P SHT 278.DWG, WATER P&P SHT 279.DWG, WATER P&P SHT 280.DWG, WATER P&P SHT 281.DWG, WATER P&P SHT 282.DWG, WATER P&P SHT 283.DWG, WATER P&P SHT 284.DWG, WATER P&P SHT 285.DWG, WATER P&P SHT 286.DWG, WATER P&P SHT 287.DWG, WATER P&P SHT 288.DWG, WATER P&P SHT 289.DWG, WATER P&P SHT 290.DWG, WATER P&P SHT 291.DWG, WATER P&P SHT 292.DWG, WATER P&P SHT 293.DWG, WATER P&P SHT 294.DWG, WATER P&P SHT 295.DWG, WATER P&P SHT 296.DWG, WATER P&P SHT 297.DWG, WATER P&P SHT 298.DWG, WATER P&P SHT 299.DWG, WATER P&P SHT 300.DWG, WATER P&P SHT 301.DWG, WATER P&P SHT 302.DWG, WATER P&P SHT 303.DWG, WATER P&P SHT 304.DWG, WATER P&P SHT 305.DWG, WATER P&P SHT 306.DWG, WATER P&P SHT 307.DWG, WATER P&P SHT 308.DWG, WATER P&P SHT 309.DWG, WATER P&P SHT 310.DWG, WATER P&P SHT 311.DWG, WATER P&P SHT 312.DWG, WATER P&P SHT 313.DWG, WATER P&P SHT 314.DWG, WATER P&P SHT 315.DWG, WATER P&P SHT 316.DWG, WATER P&P SHT 317.DWG, WATER P&P SHT 318.DWG, WATER P&P SHT 319.DWG, WATER P&P SHT 320.DWG

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	200	320
		WATERLINE 2 P&P SHT. 1				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

STA. 0+00.00 BEGIN WATERLINE 2
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
EXIST. 8" WATERLINE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY
END WATERLINE 7 STA. 0+86.99
INSTALL 8" CAP
INSTALL 8"X8" TEE
INSTALL NEW 1" SERVICE
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
INSTALL 2-8" GATE VALVES 8"X6" TEE AND FH ASSEMBLY
UGTV RISER (BY OTHERS) (TYP.)
20' UTILITY ESMT.
GAS (BY OTHERS)
STORM SEWER SEE ROADWAY PLANS (TYP.)
REMOVE EXIST. SERVICE
8"W 8" DIP WATERLINE
ABANDON AND FILL EXIST. 8" WATERLINE
STA. 0+38.29 WATERLINE 7 = STA. 38+97.18 W. WALNUT ST. (HWY 71B)
W. WALNUT ST. (HWY 71B)
REMOVE EXIST. 8" WATERLINE
INSTALL 8"X8" TEE AND 8" GATE VALVE
INSTALL 8" CAP
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
LIGHT POLE (TYP.)
EXIST. FH TO REMAIN
END WATERLINE 1 STA. 22+26.49
INSTALL NEW 1" SERVICE
MH 1-10
MH 1-11
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
STA. 4+84.38 WATERLINE 2 = STA. 16+05.51 N. 13TH ST.
INSTALL 8" 90° BEND
INSTALL 8"X8" TEE AND 8" GATE VALVE
INSTALL 8" CAP
INSTALL 8" 90° BEND
INSTALL 8" 11.25° BEND
INSTALL 8" 45° BEND
INSTALL 8" 22.5° BEND
INSTALL 8" 11.25° BEND
INSTALL 8" 45° BEND
INSTALL 8" 11.25° BEND
18" STEEL CASING
REMOVE EXIST. 8" WATERLINE
MATCH LINE
N. 13TH ST.
UGTV (BY OTHERS)

STA. 0+00.00 8"X8" TAPPING SLEEVE AND VALVE
STA. 0+15.48 WATERLINE 2 = STA. 0+86.89 WATERLINE 7
STA. 0+15.55 8"X8" TEE
8" GATE VALVE
STA. 1+12.87 INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
8" GATE VALVE
GRANULAR BACKFILL
EXISTING GROUND
STA 40+94 LEFT 6'X 4' JCT. BOX TOP RIM=1343.42 ℄ IN = 1333.23 54" RCP (E) ℄ OUT = 1333.12 54" RCP (W)
FG AT WALNUT ST ℄
GRANULAR BACKFILL
GRANULAR BACKFILL
STA. 3+51.15 8" 11.25° BEND
STA 42+42 LEFT 2'X 4' JCT. BOX TOP RIM=1343.53 ℄ IN = 1334.06 54" RCP (E) ℄ OUT = 1333.96 54" RCP (W)
STA. 3+79.18 8" 45° BEND
STA 42+92 LEFT 6'X 3' JCT. BOX TOP RIM=1342.50 ℄ IN = 1334.37 54" RCP (E) ℄ IN = 1336.76 18" RCP (N) ℄ OUT = 1334.27 54" RCP (W)
STA. 4+08.11 8" 22.5° BEND
STA. 15+83 LEFT 4' DIA. ROUND INLET TOP RIM=1341.88 ℄ IN = 1337.53 18" RCP (E) ℄ OUT = 1337.43 18" RCP (S)
STA. 4+20.39 8" 11.25° BEND
STA. 4+37.38 8" 90° BEND
STA. 4+46.86 8"X8" TEE & GATE VALVE
GRANULAR BACKFILL
18" STORM SEWER PIPE
STA. 4+84.38 WATERLINE 2 = STA. 16+05.51 N. 13TH ST.
STA. 5+09.62 8" 45° BEND
STA. 5+13.09 8" 11.25° BEND
INSTALL 8" DIP 350psi WATERLINE
54" RCP
54" RCP
54" RCP
STA. 0+42.79 2" D.I. GAS PIPE (BY OTHERS) ℄ ELEV. 1337.47
EXIST. 8" WATERLINE APPROXIMATE LOCATION AND DEPTH CONTRACTOR TO FIELD VERIFY
STA. 1+61.72 UGE CONDUIT
STA. 3+92.26 2" D.I. GAS PIPE (BY OTHERS) ℄ ELEV. 1335.00
STA. 4+06.98 UGTV CONDUIT
STA. 4+41.39 UGE CONDUIT
STA. 4+57.01 REMOVE EXIST. 8" WATERLINE
18" MIN
STA. 4+71.31 ℄ ELEV:1333.15
STA. 4+81.27 8" CLAY ℄ ELEV. = 1335.69
INSTALL 20 L.F. 16" STEEL CASING
STA: 4+91.31 ℄ ELEV:1333.15

1360 1355 1350 1345 1340 1335 1330 1325 1320 1315
0+00 1+00 2+00 3+00 4+00 5+00

WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

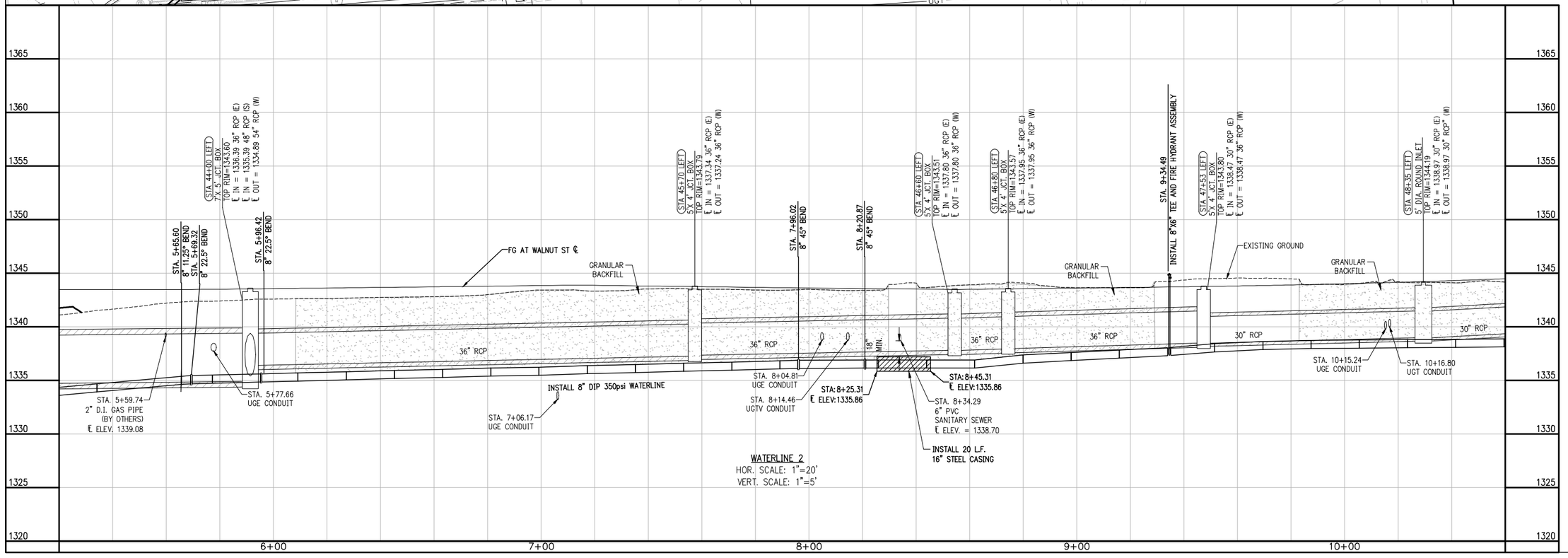
DRAWING: C:\ASSET#2\ATHOL\INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 2 TAP SHT
LAST SAVED: 6/7/2023 13:05:15 PM
LAST PLOTTED: 6/7/2023 13:05:24 PM
USER: MARK.MITCHELL (WORKSTATION: WWW2-MITCHELL) (WINDOWS "XP" VALID ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	201	320
		WATERLINE 2 P&P SHT. 2				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

GRAPHIC SCALE IN FEET
0 10' 20' 40'

MATCH LINE
BAFFLE HUT
5+00
6+00
7+00
8+00
9+00
10+00
20' UTILITY ESMT.
INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS
16" STEEL CASING
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
UGTV RISER (BY OTHERS) (TYP.)
8" DIP WATERLINE
INSTALL 8" 11.25° BEND
INSTALL 8" 22.5° BEND
GAS (BY OTHERS)
UGTV (BY OTHERS)
LIGHT POLE (TYP.)
INSTALL 8" 45° BENDS
REMOVE EXIST. WATER SERVICES (TYP.)
STORM SEWER SEE ROADWAY PLANS (TYP.)
REMOVE EXIST. 8" WATERLINE
MH 1-12
SANITARY SEWER LINE 1
W. WALNUT ST. (HWY 71B)
INSTALL 8" 22.5° BEND
INSTALL NEW 1" SERVICE (TYP.)
ABANDON AND FILL EXIST. 6" SS
MH 1-11
MH 6-1
R/W
UGTV
UGT
FO
8"W
8"SS
6"SS
1342
1343
1344



WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING C:\610\450_KY\ARKUTIL\INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: "WATERLINE P&P SHT 2" - LAST SAVE BY: RTEDFORD - 6/7/2023 7:53:04 PM
XREF: C:\610\450_KY\ARKUTIL\INFRASTRUCTURE\CIVIL\DWG\WATER PLAN.DWG
PLOTTED: 6/7/2023 7:53:04 PM BY: RTEDFORD ON: XVLID ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	202	320
		WATERLINE 2 P&P SHT. 3				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

GRAPHIC SCALE IN FEET
0 10' 20' 40'

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

MATCH LINE

N. 12TH ST.

STA. 11+37.63 WATERLINE 2 = STA. 0+18.44 N. 12TH ST.

EXIST. 2" WATERLINE APPROXIMATE LOCATION CONTRACTOR TO FIELD VERIFY

EXIST. SANITARY SERVICE APPROXIMATE LOCATION (TYP.)

SANITARY SEWER LINE 6

TIE TO EXIST. 2" WATERLINE WITH 8' VALVE, 8"X4" REDUCER, 4" 90° BEND AND 4"X2" COMPRESSION COUPLING

INSTALL 8" 90° BEND

INSTALL 8" 11.25° BENDS

MH 6-2

MH 6-3

6" PVC

10' UTILITY ESMT.

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

8" IN X 8" IN WATERLINE

INSTALL 8"X8" TEE AND 8" GATE VALVE

MH 6-1

R/W

CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD

REMOVE EXIST. WATERLINE

W. WALNUT ST. (HWY 71B)

MH 1-13

ABANDON AND FILL EXIST. 6" SS

INSTALL NEW ELECTRIC SERVICE CONNECTION TO BUILDING (TYP.)

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

INSTALL NEW 1" SERVICE (TYP.)

20' UTILITY ESMT.

UGTV RISER (BY OTHERS) (TYP.)

UGTV (BY OTHERS)

8" DIP WATERLINE

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXIST. WATER SERVICE AND INSTALL NEW 1" SERVICE (TYP.)

MH 7-1

MH 1-14

SANITARY SEWER LINE 1

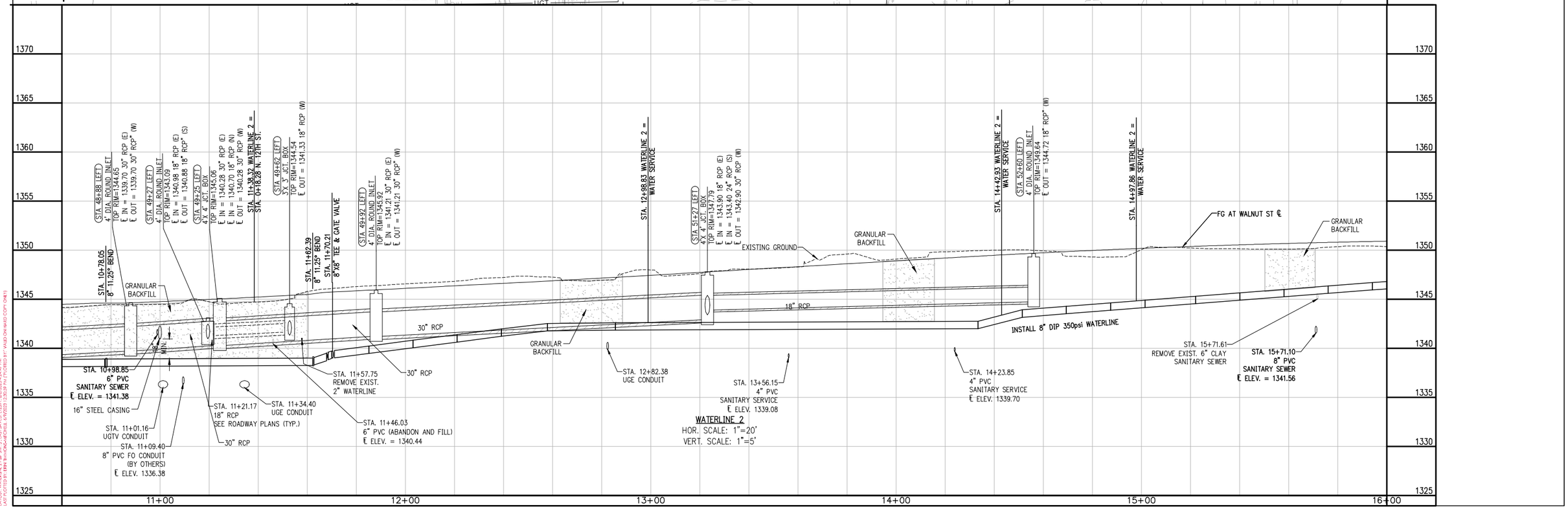
8" PVC

INSTALL NEW 1" SERVICE

INSTALL NEW 1" SERVICE

LIGHT POLE (TYP.)

MATCH LINE



DRAWING: C:\ASSET#2\ATHOLT\PLI\INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 2 P&P SHT. 3 - JOT SAVED: 7/7/2021 1:48:07 PM
XREF: ASSET#2\ATHOLT\PLI\INFRASTRUCTURE\CIVIL\DWG\PLAN SHEET.DWG - VOID ON HARD COPY ONLY

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	203	320
		WATERLINE 2 P&P SHT. 4				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCH LINE
16+80
17+00
18+00
19+00
20+00
21+00
N. 11TH ST.
W. WALNUT ST. (HWY 71B)
20' UTILITY ESMT.
R/W
INSURANCE
ENTERPRISE
ONE STORY
ONE STORY BRICK
STAIRS
RUSTED ROOSTER
CAT CLINIC
INSTALL 8"X6" TEE
8" GATE VALVE
FIRE HYDRANT ASSEMBLY
UGTV RISER
(BY OTHERS)
(TYP.)
INSTALL NEW ELECTRIC
SERVICE CONNECTION TO
BUILDING (TYP.)
POWER POLE
INSTALLED BY
AEP/SWEPCO
INSTALL 8" 90° BEND
8"X6" REDUCER
INSTALL 8"X8" TEE
UGTV (BY OTHERS)
UGE (BY OTHERS)
EXIST. 24" WATERLINE
APPROXIMATE LOCATION
CONTRACTOR TO FIELD VERIFY
NOTE:
PROVISIONS WILL BE NEEDED
FOR FLUSHING WHEN TIE-INS
ARE MADE TO EXISTING
WATERLINE
INSTALL 6"X6" TAPPING
SLEEVE AND VALVE
INSTALL 6" CAP
STA. 18+31.52 WATERLINE 2 =
STA. 0+13.77 N. 11TH ST.
EXIST. SANITARY SERVICE
APPROXIMATE LOCATION
(TYP.)
INSTALL NEW 1" SERVICE
REMOVE EXIST. WATER SERVICE
AND INSTALL NEW 1" SERVICE
REMOVE EXIST.
8" WATERLINE
REMOVE EXIST. WATER SERVICE
AND INSTALL NEW 1" SERVICE
REMOVE EXIST.
6" WATERLINE
SANITARY SEWER LINE 1
MH 1-15
MH 8-3
MH 8-2
STORM SEWER SEE
ROADWAY PLANS (TYP.)
EXIST. SS MH #200237
T&B=RIM=1347.82
FL=1341.75 (8"PVC E & W)
LIGHT POLE (TYP.)
1-14

STA. 16+35.08
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
STA. 16+36.96
8" GATE VALVE
STA. 16+47.24 WATERLINE 2 =
WATER SERVICE
STA. 17+90.98 WATERLINE 2 =
WATER SERVICE
STA. 18+10.67
8"X8" TEE
STA. 18+36.54 WATERLINE 2 =
STA. 0+13.72 N. 11TH ST.
STA. 18+75.40 WATERLINE 2 =
WATER SERVICE
STA. 18+88.29 WATERLINE 2 =
WATER SERVICE
STA. 19+12.21
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
STA. 19+14.09
8" GATE VALVE
STA. 19+41.97 WATERLINE 2 =
WATER SERVICE
STA. 20+44.82 WATERLINE 2 =
WATER SERVICE
EXISTING GROUND
GRANULAR BACKFILL
INSTALL 8" DIP 350psi WATERLINE
FG AT WALNUT ST ℄
STA. 17+42.28
4" PVC
SANITARY SERVICE
℄ ELEV. = 1343.27
STA. 18+20.96
REMOVE EXIST.
6" WATERLINE
STA. 18+32.60
24" DUCTILE IRON
℄ ELEV. 1343.51
APPROXIMATE LOCATION AND DEPTH
CONTRACTOR TO FIELD VERIFY
STA. 18+99.92
4" PVC
SANITARY SERVICE
℄ ELEV. = 1341.64
18" RCP
STA. 19+52.91
4" PVC
SANITARY SERVICE
℄ ELEV. 1341.32
STA. 20+07.07
8" PVC
SANITARY SEWER
℄ ELEV. = 1339.42

WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

1370 1365 1360 1355 1350 1345 1340 1335 1330 1325
16+00 17+00 18+00 19+00 20+00 21+00

DRAWING C:\650182_VAN-BUTH_INFRASTRUCTURE-CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 2 P&P SHT 4 - LAST SAVED: 6/7/2023 1:56:05 PM
LAST PLOTTED: 6/8/2023 7:59:00 AM BY: WILLIAM BURNETT "X" VALID ON HARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	204	320
		WATERLINE 2 P&P SHT. 5				

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

MATCH LINE

N. 10TH ST.

REMOVE SECTION OF EXIST. 3" WATERLINE (ABANDONED BY OTHERS)

REMOVE PLUG AND CONNECT TO EXIST. 8" VALVE

INSTALL 8"X8" TEE AND 8" GATE VALVE

STA. 21+85.19 WATERLINE 2 = STA. 0+13.58 N. 10TH ST.

22+00

20' UTILITY ESMT.

23+00

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

UGTV (BY OTHERS)

24+00

INSTALL NEW 1" SERVICE (TYP.)

INSTALL 8"X6" TEE 8" GATE VALVE FIRE HYDRANT ASSEMBLY

25+00

16" STEEL CASING

20' UTILITY ESMT.

26+00

RADIO SHACK

AQUEOUS VAPOR

LITTLE CEASARS

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

INSTALL NEW 1" SERVICE

CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD

STORM SEWER SEE ROADWAY PLANS (TYP.)

REMOVE EXIST. 8" WATERLINE

REMOVE EXIST. WATER SERVICE AND INSTALL NEW 1" SERVICE (TYP.)

CAREFULLY SALVAGE EXIST. FH AND DELIVER TO RWU YARD

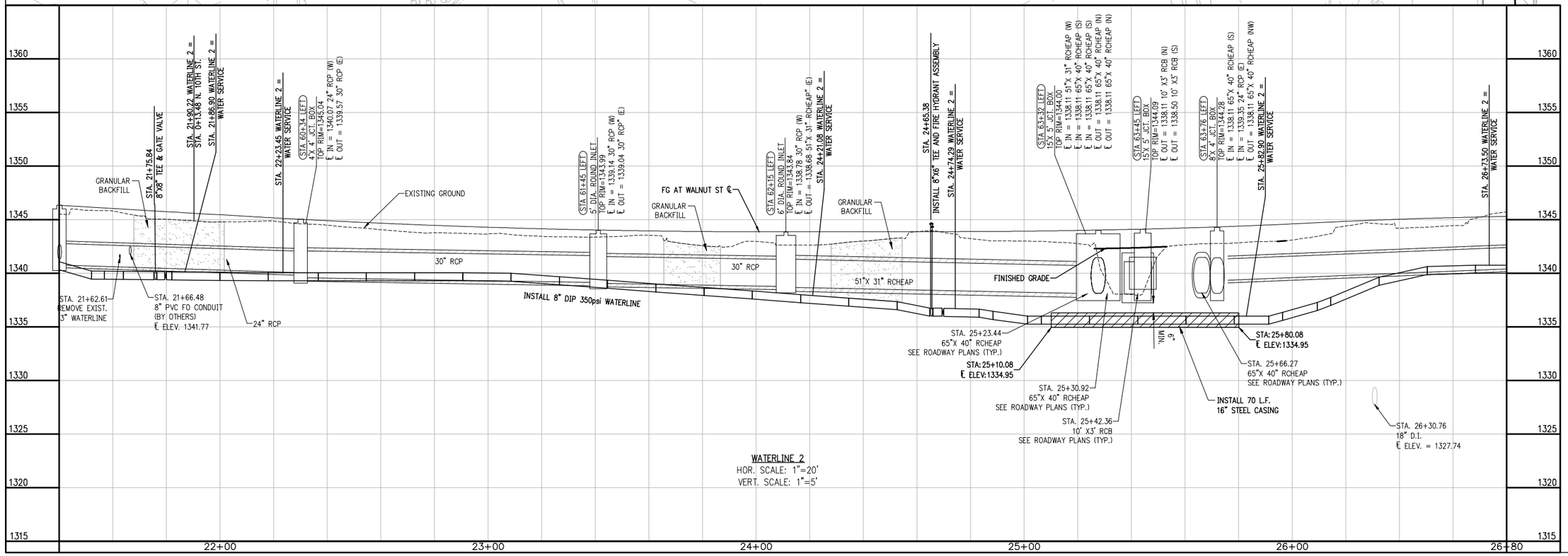
W. WALNUT ST. (HWY 71B)

ABANDON AND FILL EXIST. 8" SS

LIGHT POLE (TYP.)

MATCH LINE

R/W



WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING C:\1610-ROJAVA\UTILITY\INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE P&P SHT. 5 - LAST SAVED BY: PETER.T. ON 6/7/2023 1:16:03 PM
LAST PLOTTED: 6/7/2023 1:16:05 PM BY: PETER.T. (FOR QUALITY CONTROL ONLY - VALID ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	205	320
		WATERLINE 2 P&P SHT. 6				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

MATCH LINE

EXIST. 4" WATER LINE (ABANDONED BY OTHERS)

POWER POLE INSTALLED BY AEP/SWEPCO

REMOVE 1" CORP AND INSTALL REPAIR CLAMP AFTER NEW SERVICE IS CONNECTED TO NEW MAIN

REMOVE PLUG AND CONNECT TO EXIST. 8" VALVE

STA. 27+91.55 WATERLINE 2 = STA. 0+22.65 N. 9TH ST.

INSTALL 8"X8" TEE 8" GATE VALVE

INSTALL UGE CONDUIT PER AEP/SWEPCO PLANS & SPECIFICATIONS

UGTV RISER (BY OTHERS) (TYP.)

INSTALL NEW 1" SERVICE (TYP.)

STA. 30+94.16 WATERLINE 2 = STA. 0+00.20 WATERLINE 3
INSTALL 8"X8" TEE 2-8" GATE VALVES

STA. 31+74.91 WATERLINE 2 = STA. 15+67.21 N. 8TH ST.

INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY

UGTV (BY OTHERS)

ABANDON EXIST. 1" SERVICE IN PLACE AFTER NEW SERVICE IS CONNECTED

REMOVE EXIST. SERVICE

LIGHT POLE (TYP.)

SIGNAL POLE SEE SIGNAL PLANS

STORM SEWER SEE ROADWAY PLANS (TYP.)

W. WALNUT ST. (HWY 71B)

N. 9TH ST.

N. 8TH ST.

27+00 20' UTILITY ESMT.

28+00

29+00 20' UTILITY ESMT.

30+00

31+00 R/W

MCDONALDS

RETAIL

ONE STORY

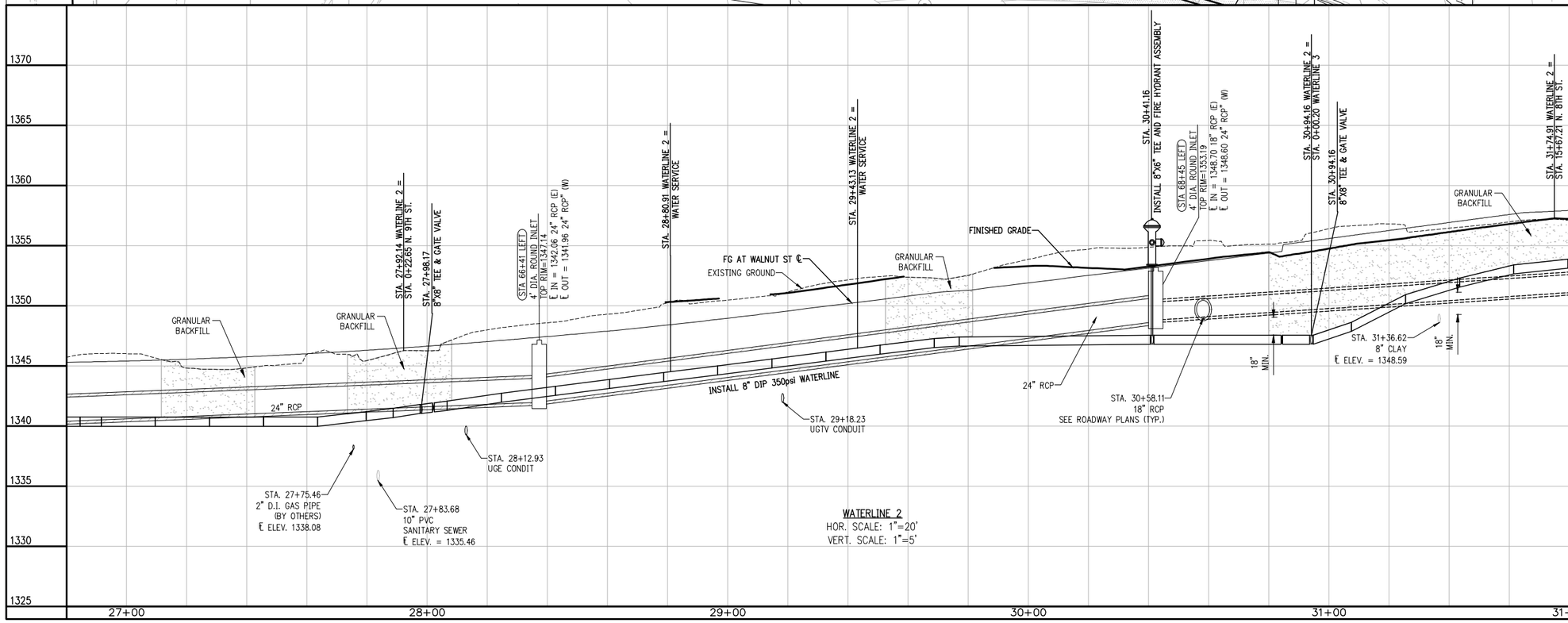
8"W

4"W

8"SS

24" RCP

1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358



WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\610\810_WATER\UTILITY\INFRASTRUCTURE\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 2 P&P SHT. 6 - LAST SAVED: 7/7/2021 1:49:20:000 PM
LAST PLOTTED: 7/7/2021 1:49:20:000 PM BY: WILLIAM BURNETT (LMS Tech)
"ELECTRONIC SEALS ARE VALID ONLY WHEN PLOTTED ON 11"X17" PAPER. VALID ON HARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	206	320
		WATERLINE 2 P&P SHT. 7				

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

MATCHLINE
32+00
33+00
34+00
35+00
36+00
37+00
MATCH LINE
N. 8TH ST.
INSTALL 8" 90° BEND
INSTALL 8"X8" TAPPING SLEEVE AND VALVE
INSTALL 8" CAP
INSTALL 8"X8" TEE AND 8" GATE VALVE
INSTALL 8" 45° BEND
CAREFULLY SALVAGE FH AND DELIVER TO RWU YARD. PLUG VALVE AND ABANDON.
INSTALL 8" 11.25° BEND
INSTALL 8" 22.5° BEND
INSTALL 8"X6" TEE FIRE HYDRANT ASSEMBLY
INSTALL NEW 1" SERVICE
STORM SEWER SEE ROADWAY PLANS (TYP.)
R/W
8"W
8" DIP WATERLINE
STA. 35+49.83 WATERLINE 2 = STA. 0+01.10 WATERLINE 8
INSTALL 8"X8" TEE 2-8" GATE VALVES
INSTALL NEW 1" SERVICE
INSTALL AIR RELEASE VALVE ASSEMBLY
UTILITY ESMT. WIDTH VARIES
REMOVE EXIST. WATER SERVICE AND INSTALL NEW SERVICE (TYP.)
WATERLINE 8
EXIST. SANITARY SEE SHEET 182
MH 3-3
W. WALNUT ST. (HWY 71B)
8" PVC SANITARY SEWER LINE 3
MH 3-2
STA. 0+48.82 WATERLINE 8 = STA. 73+38.16 W. WALNUT ST. (HWY 71B)
REMOVE EXIST. SERVICE
INSTALL NEW 1" SERVICE
REMOVE EXIST. 4" WATERLINE
INSTALL 2 NEW 1" SERVICE
INSTALL 1-8"X6" REDUCER 1-FH ASSEMBLY
R/W
END WATERLINE 8 STA. 0+84.85
EXIST. R/W
UGT
FO
OHE
SS
1357
1358
1359
1360
1361
1362
1363

1380
1375
1370
1365
1360
1355
1350
1345
1340
1335

STA. 32+00.62
8"X8" TEE & GATE VALVE
STA. 70+13 LEFT
4' DIA. ROUND INLET
TOP RIM=1357.66
℄ IN = 1351.62 18" RCP (SE)
℄ OUT = 1351.52 18" RCP (W)
STA. 70+81 LEFT
4' DIA. ROUND INLET
TOP RIM=1358.79
℄ IN = 1352.71 18" RCP (E)
℄ OUT = 1352.58 18" RCP" (NW)
STA. 32+91.32 WATERLINE 2 = WATER SERVICE
STA. 32+95.73
INSTALL 8"X6" TEE AND FIRE HYDRANT ASSEMBLY
STA. 33+51.37 WATERLINE 2 = WATER SERVICE
STA. 34+00.92 WATERLINE 2 = WATER SERVICE
STA. 72+33 LEFT
4' DIA. ROUND INLET
TOP RIM=1361.68
℄ OUT = 1356.67 18" RCP" (W)
STA. 35+49.83
8"X8" TEE & 2-GATE VALVES
STA. 35+49.83 WATERLINE 2 = STA. 0+01.02 WATERLINE 8
STA. 35+96.04 WATERLINE 2 = WATER SERVICE
STA: 36+67.01
INSTALL AIR RELEASE VALVE
FG AT WALNUT ST ℄
GRANULAR BACKFILL
FINISHED GRADE
EXISTING GROUND
18" RCP
STA. 32+07.15
8" DUCTILE IRON
℄ ELEV. 1352.32
STA. 32+40.02
UGE CONDUIT
STA. 32+83.42
18" RCP
SEE ROADWAY PLANS (TYP.)

31+80
32+00
33+00
34+00
35+00
36+00
37+00

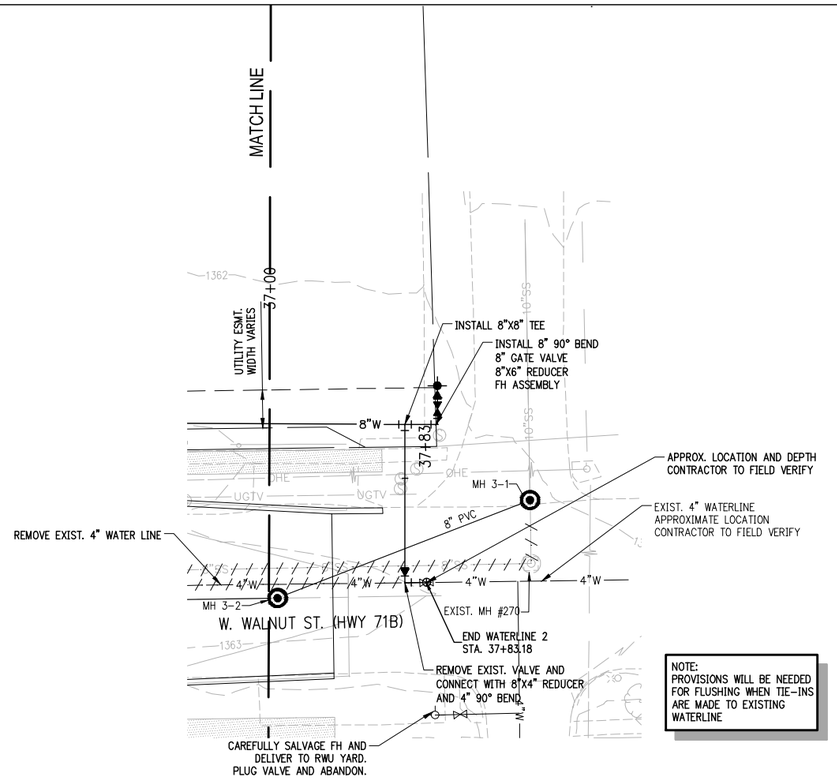
WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\650140-WATER\UTILITY\INFRASTRUCTURE\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 2 P&P SHT. 7 6/7/2023 2:54:01 PM
LOGIN: BRIAN.MCCLELLAN.WORKS-AR1 XREF: 11"X17" VALID ON HARD COPY ONLY!

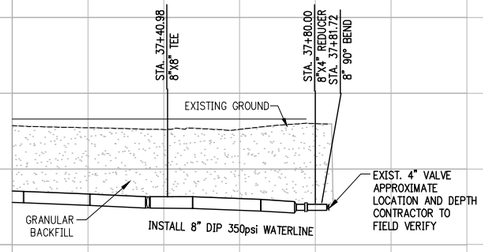
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	207	320
		WATERLINE 2 P&P SHT. 8				

GRAPHIC SCALE IN FEET
0 10' 20' 40'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE



WATERLINE 2
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

1385 1380 1375 1370 1365 1360 1355 1350 1345 1340

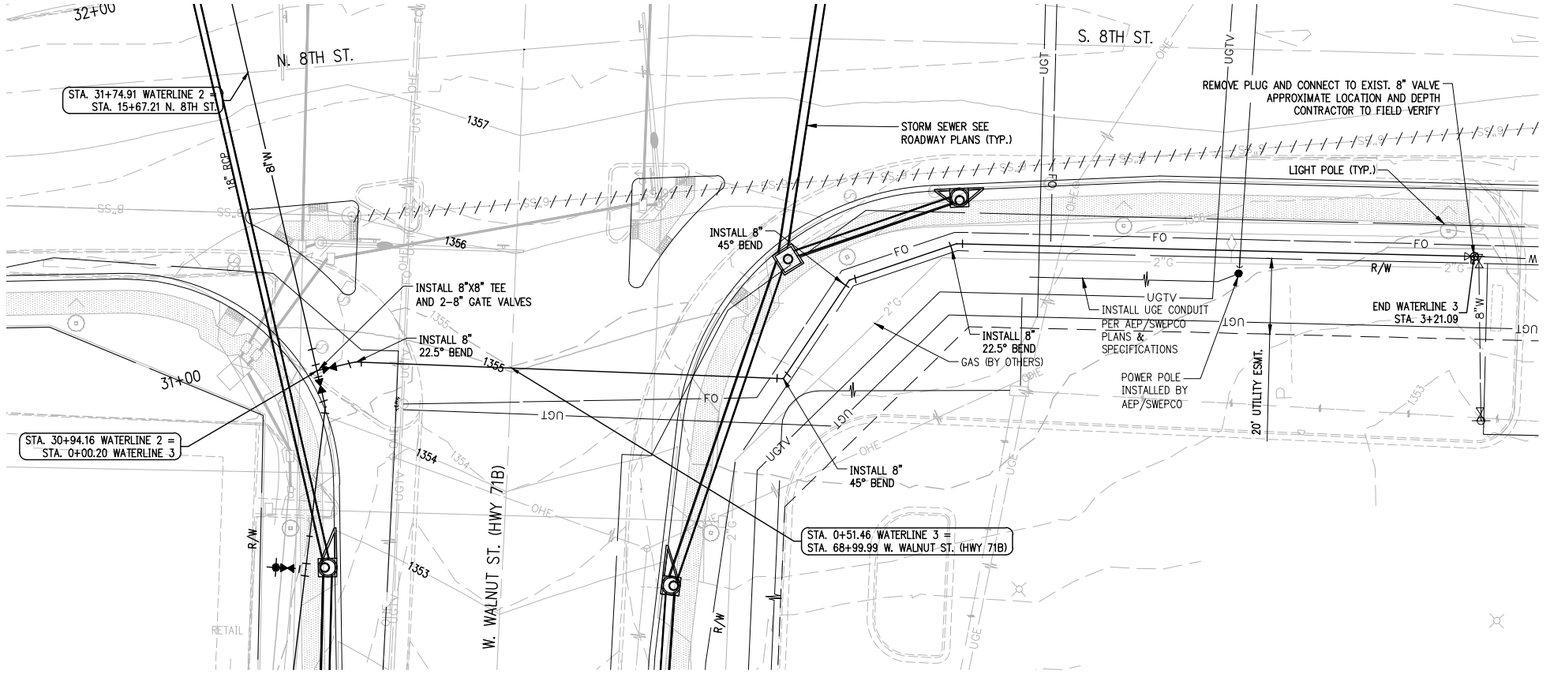
37+00 38+00

DRAWING: G:\JOB\090338_WALNUT\TS_INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 2 P&P SHT. 8 (JUST LAYOUT) [7:59:31 AM, 6/6/2023 BY ZACHARY.PAYNE]
XREFS: WATERLINE 2 P&P SHT. 8 (MODEL), ROW PLOTTING.CTB, ROW PLOTTING.STB (VALID ON HARD COPY ONLY)

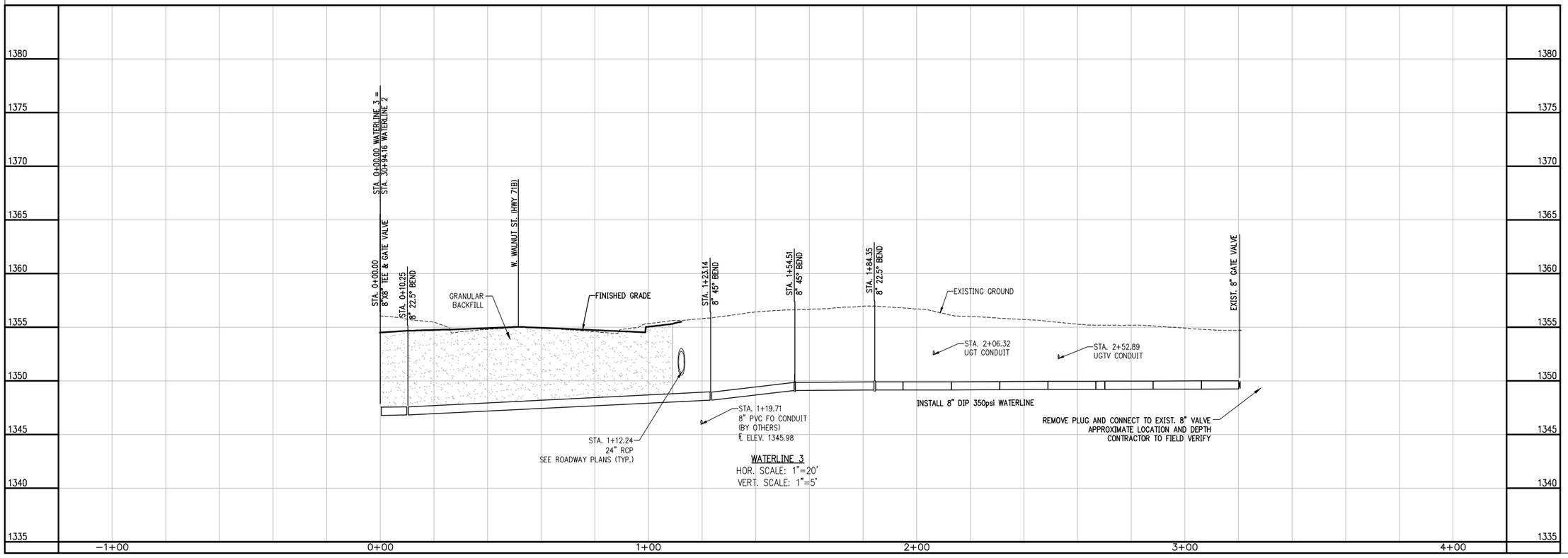
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	208	320
		WATERLINE 3 P&P				

GRAPHIC SCALE IN FEET
20' 20' 20'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

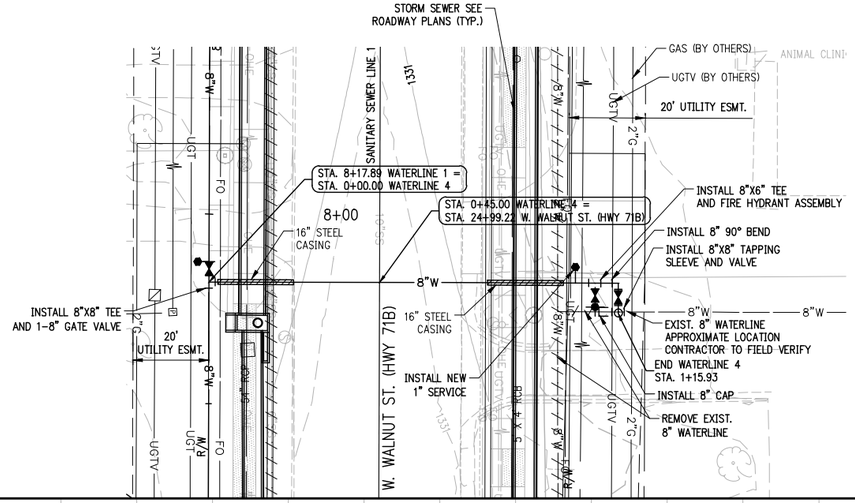


NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

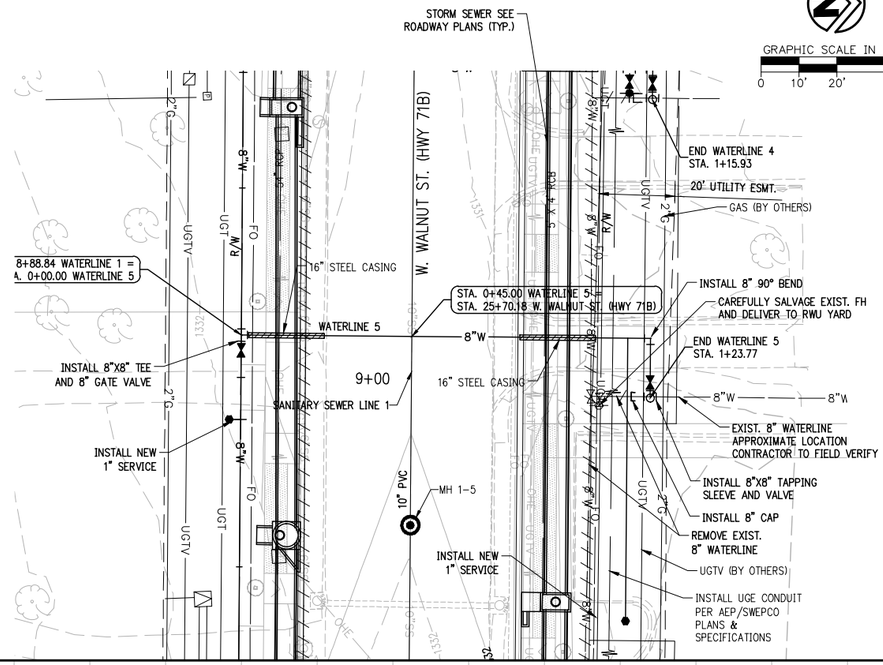


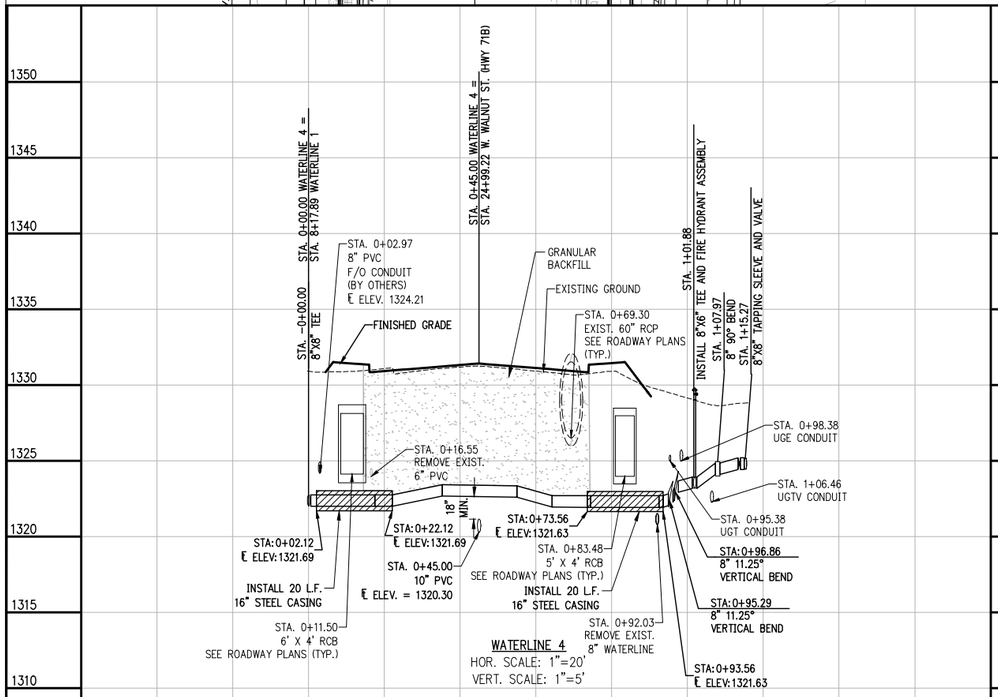
DRAWING G:\1\0140\JOB_WALNUT\TA_INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATER P&P - LAST SAVED: TODAY, 6/6/2023 2:46:47 PM
USER: WILLIAM BURNETT, PLOTTED: TODAY, 6/6/2023 2:46:47 PM
PLOTTED BY: VALID ON HARD COPY ONLY

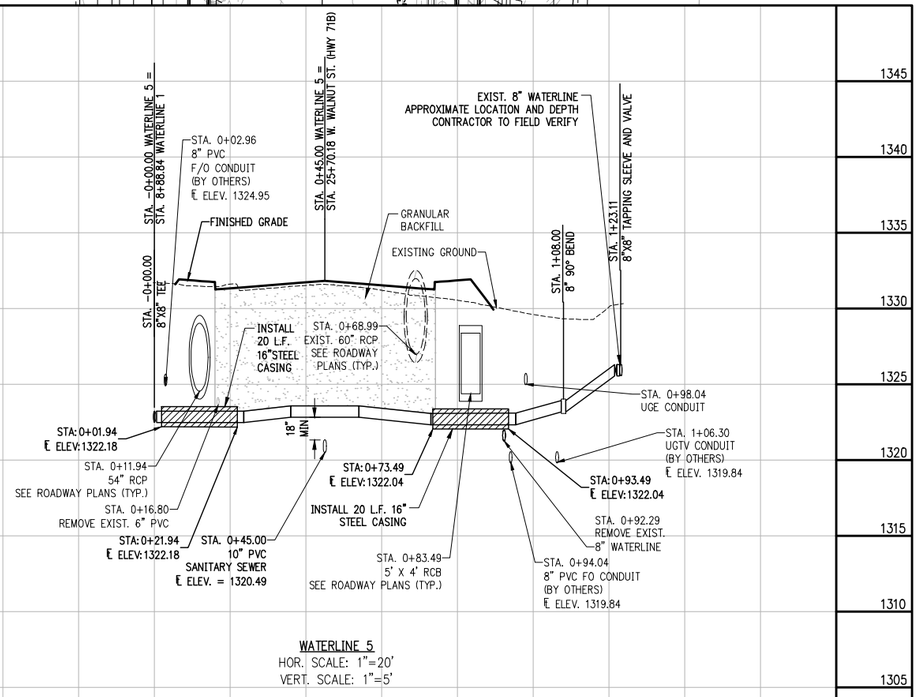
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	209	320
		WATERLINE 4&5 P&P				



NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE







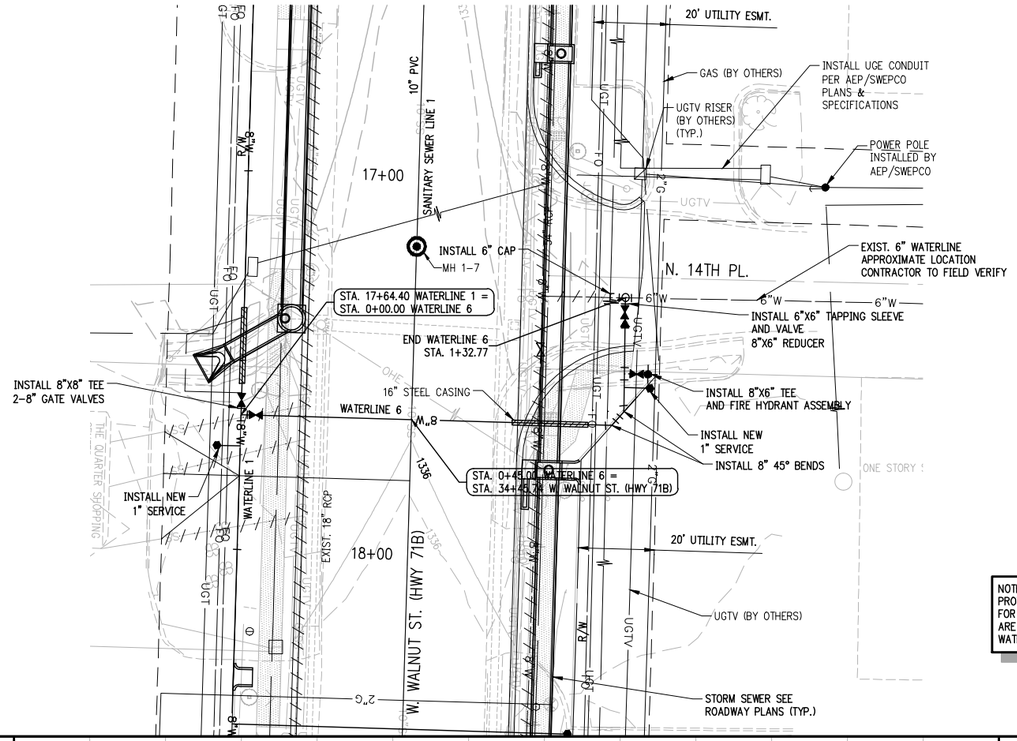
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23

DRAWING C:\1610\400_WALNUT\INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: "WATERLINE 4&5 P&P - LAYSA-IRD" BY JSTL | 6/27/2023 8:34:42 AM
LAST SAVED BY: TRAVIS.MCCOY | PLOTTED BY: TRAVIS.MCCOY (COPY ONLY)

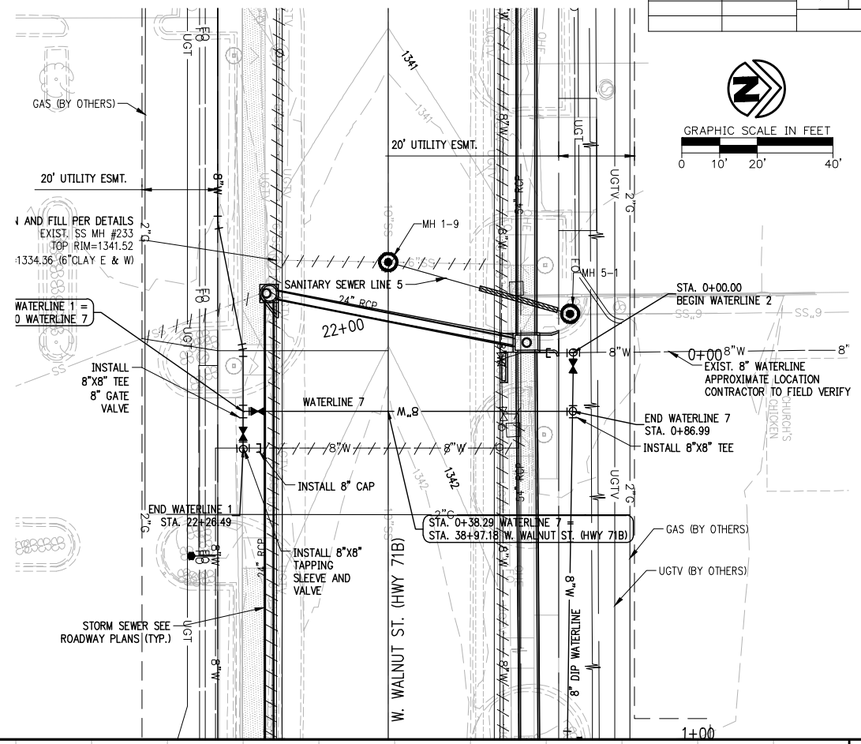
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	210	320
		WATERLINE 6&7 P&P				

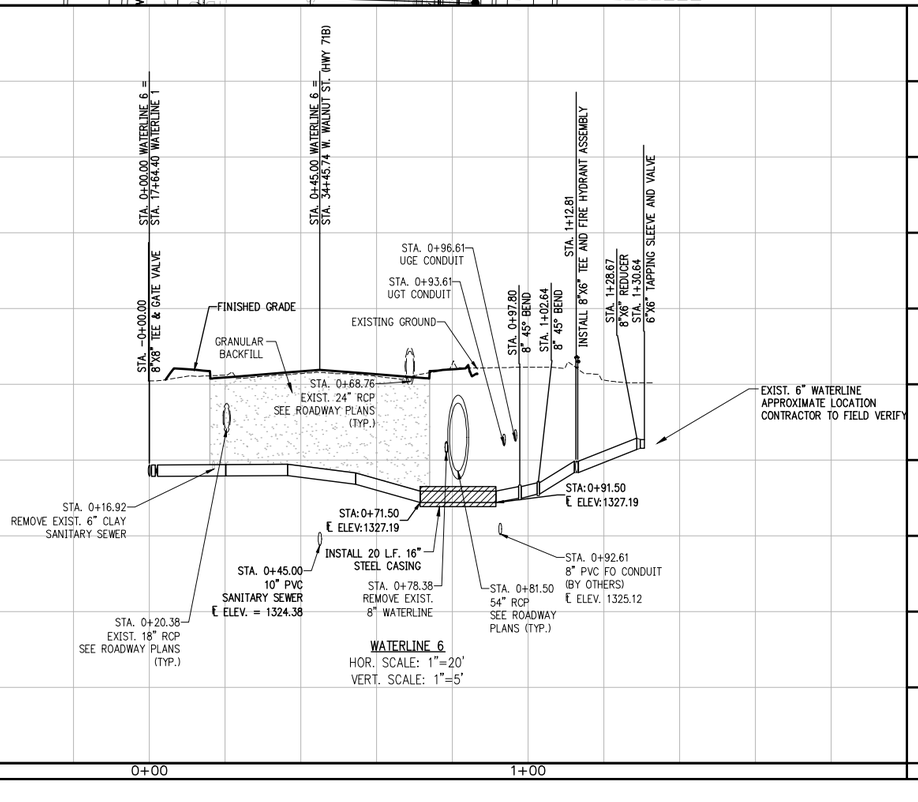
GRAPHIC SCALE IN FEET
0 10' 20' 40'

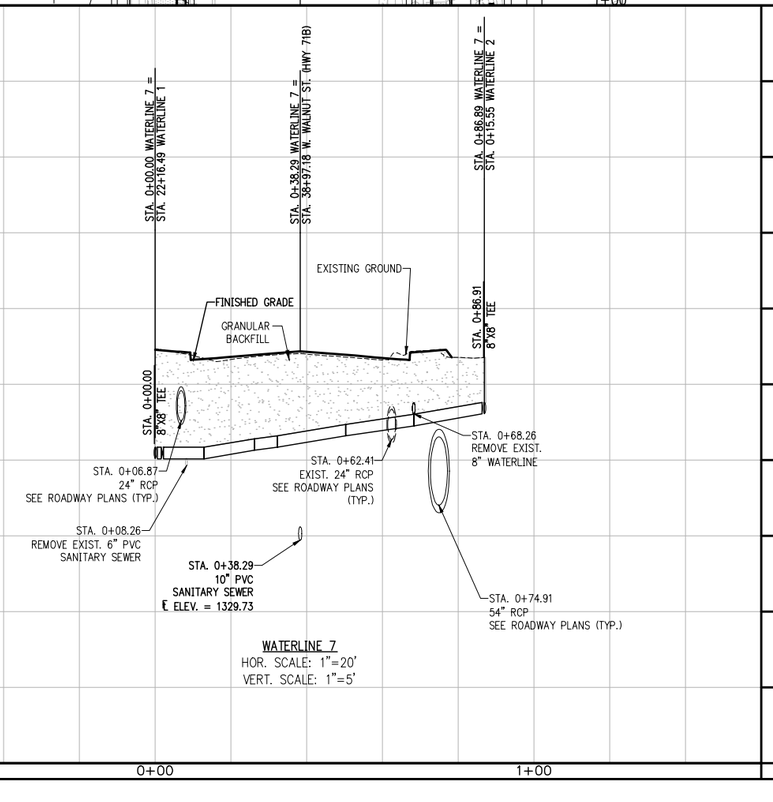
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE







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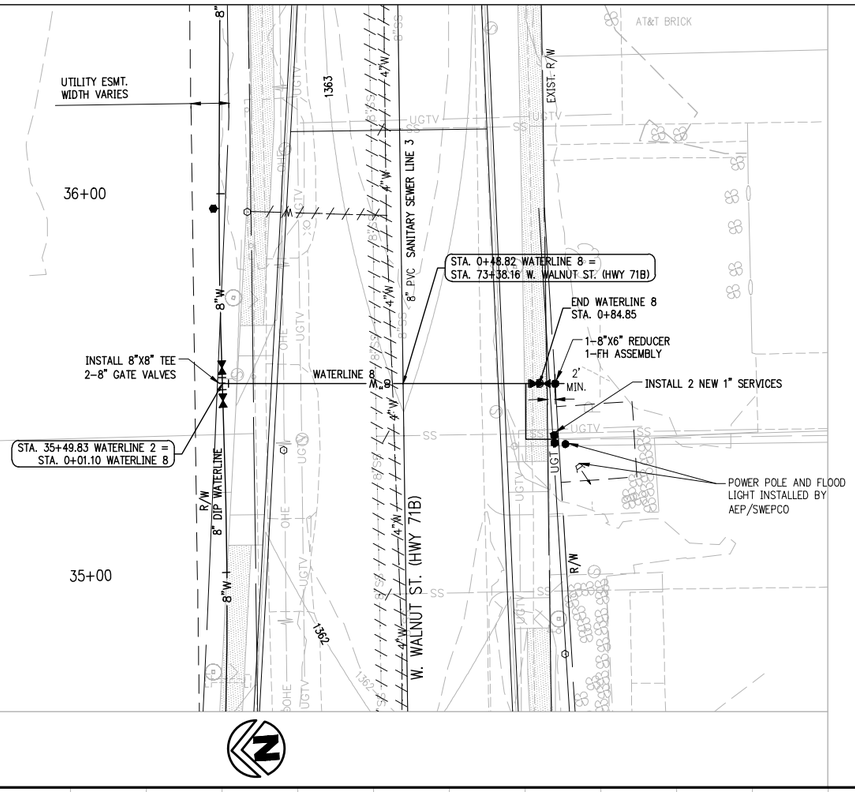
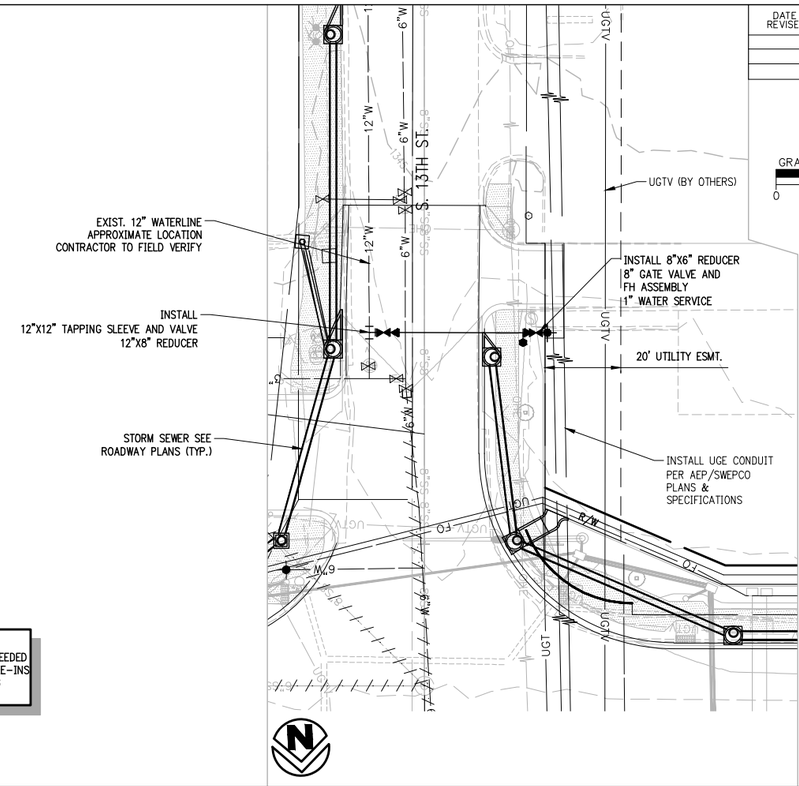
LAYOUT: WATERLINE 6&7 P&P | LAST SAVED: 8:54:42 AM 6/12/2023 3:39:14 PM | PLOTTED: 6/12/2023 3:39:14 PM BY: DONALD HAYES (COPY ONLY)
XREF: C:\ASSET#02_VISALIA\TN_INFRASTRUCTURE\TN_LDWG\TN_BORDER.DWG

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	211	320
		WATERLINE 8&9 P&P				

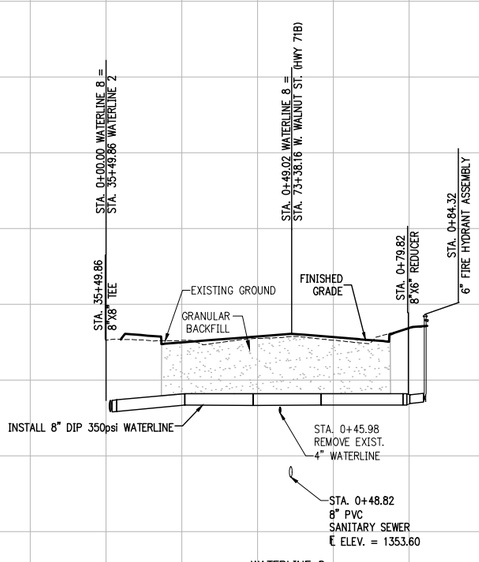




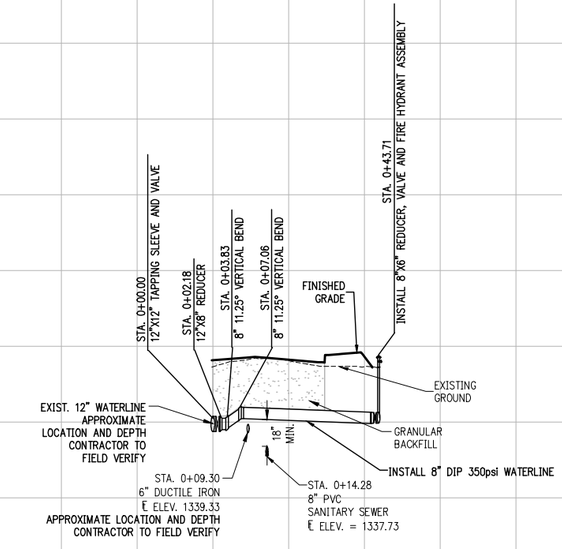
GRAPHIC SCALE IN FEET
0 10' 20' 40'

NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



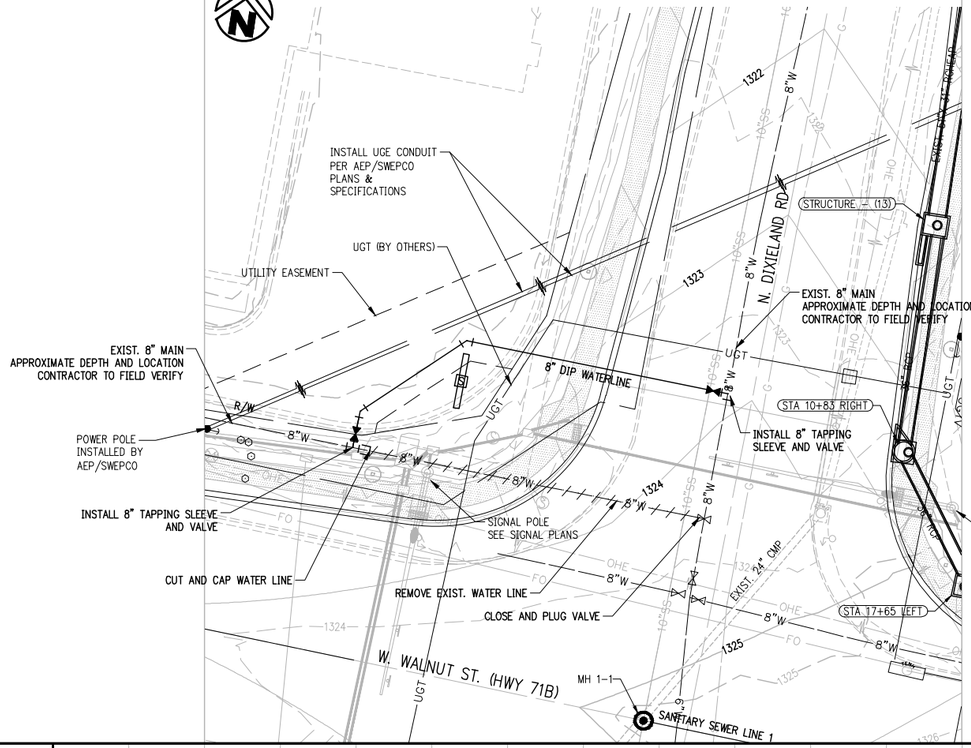
WATERLINE 8
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'



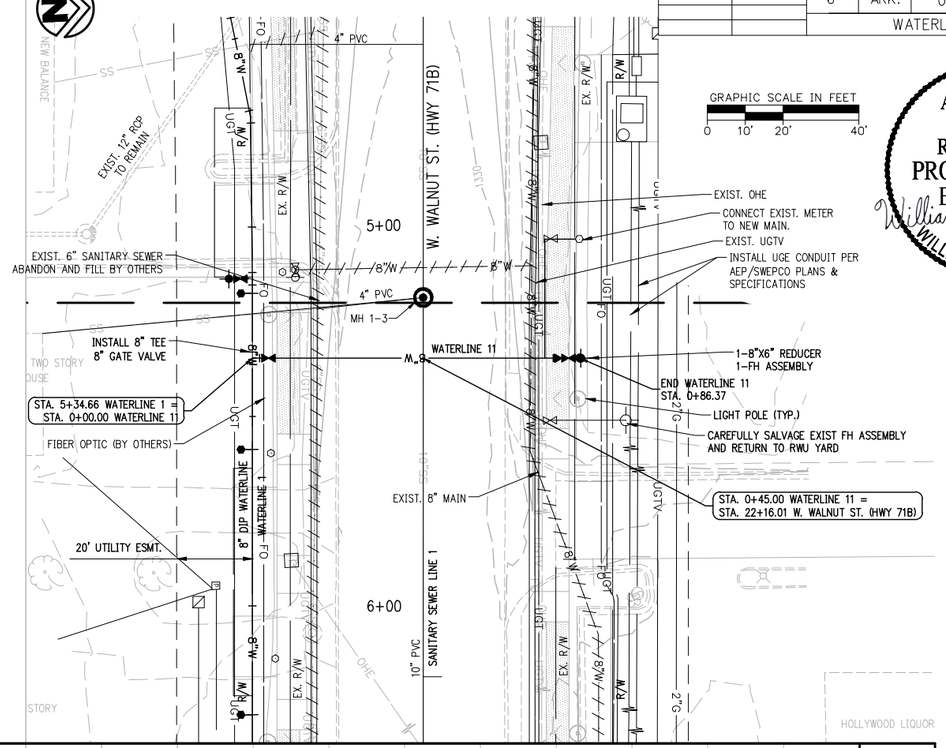
WATERLINE 9
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\1\0140\400_WALNUT\11_INFRASTRUCTURE\CIVIL\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 8&9 P&P | LAST SAVED: 6/12/2023 8:34:42 AM
PLOTTED WITH: Xerox AltaLink C8130 (PCL6) | PLOTTED BY: YALID DONADO (COPY ONLY)

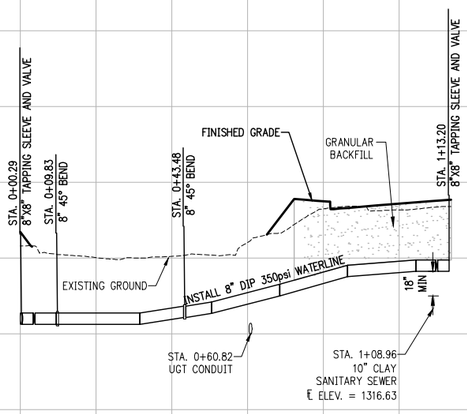
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	212	320
		WATERLINE 10&11 P&P				



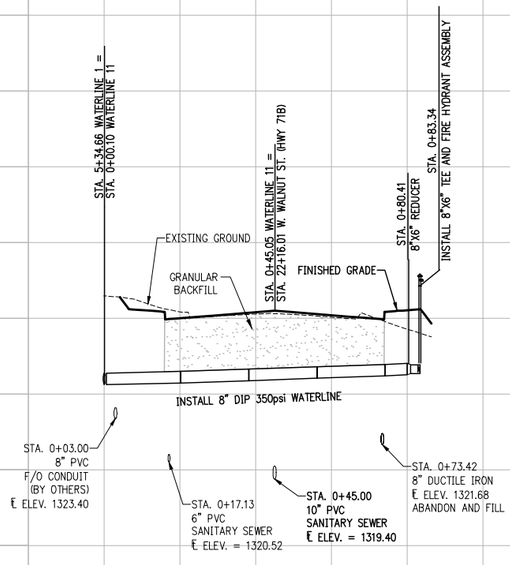
NOTE:
PROVISIONS WILL BE NEEDED FOR FLUSHING WHEN TIE-INS ARE MADE TO EXISTING WATERLINE



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
6/12/23



WATERLINE 10
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'



WATERLINE 11
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DRAWING: C:\610\802\PAVEMENT\INFRASTRUCTURE\DWG\WATER P&P.DWG
LAYOUT: WATERLINE 10&11 P&P - 24X36 (1) 7/20/2023 4:49:20 PM CDT
LAST SAVED BY: WILLIAM.BURNETT ON 7/20/2023 4:24:42 PM CDT
PLOTTED BY: WILLIAM.BURNETT ON 7/20/2023 4:49:20 PM CDT

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	213	320

ROGERS SEWER DETAILS

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL AT 12'-0"OFF ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12"-INCH ON CENTERS WITH 15" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
2. BENCHES AND WALLS SHALL BE POURED MONOLITHICALLY.
3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
4. MANHOLES THAT ARE LESS THAN 12'-6" IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2-INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE, EXTEND MANHOLE BASE TO LIMITS OF EXCAVATION IN ALL DIRECTIONS (24" MINIMUM).
6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
8. BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A DROP MANHOLE AND IF APPROVED, THE DROP MANHOLE ASSEMBLY IS ONLY ALLOWED IN THE 4-FOOT BARREL SECTION.
2. THE SEWER SERVICE PIPE CROWN ELEVATION ENTERING THE MANHOLE SHALL MATCH THE PIPE CROWN ELEVATION OF THE ENTERING SEWER MAIN.

PROVIDE AS LARGE A CURVE AS POSSIBLE IN FLOW CHANNELS

CHANNEL IN CONCRETE BASE, BOTTOM OF CHANNEL TO MATCH PIPE INVERTS

PIPE AS SPECIFIED ON PLAN OR PROFILE

SEC. B-B

SEE MAT. SPEC. 03-04 FOR APPROVED MFGS.

COMPACT FILL AROUND MANHOLE AS REQUIRED

CAST FRAME INTO MANHOLE WHEN WALLS ARE POURED

CAST-IN-PLACE P.C. CONCRETE SEE MAT. SPEC. 04-07

NO MH STEPS ALLOWED

WATER STOP (TYPICAL) SEE MAT. SPEC. 03-05 FOR APPROVED MFGS.

SLOPE TO DRAIN

SEE PLAN OR PROFILE FOR PIPE SIZE & TYPE

SHORT STUB OF PIPE, NO LONGER THAN 36" OUTSIDE MANHOLE WALL

CAST IN PLACE BASE POURED UPON UNDISTURBED SOIL

SEC. A-A

6 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL
N.T.S.

SD-1 / 1 — REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL AT 12'-0"OFF ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12"-INCH ON CENTERS WITH 15" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
2. BENCHES AND WALLS SHALL BE POURED MONOLITHICALLY.
3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
4. MANHOLES THAT ARE LESS THAN 8'-0" IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2-INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE, EXTEND MANHOLE BASE TO LIMITS OF EXCAVATION IN ALL DIRECTIONS (24" MINIMUM).
6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
8. BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.

SEE MAT. SPEC. 03-04 FOR APPROVED MFGS.

#4 @ 6" O.C. E.W.

#4 DOWELS @ 12" O.C.

CONSTRUCTION JOINT WITH KEY WAY

4-#4 DIAGONAL BARS, FOUR SIDES

FLAT TOP OPTION

FLAT TOP OPTION MAY ONLY BE USED IF APPROVED BY THE UTILITY.

PROVIDE AS LARGE A CURVE AS POSSIBLE IN FLOW CHANNELS

CHANNEL IN CONCRETE BASE, BOTTOM OF CHANNEL TO MATCH PIPE INVERTS

SEC. B-B

SEE MAT. SPEC. 03-04 FOR APPROVED MFGS.

COMPACTED FILL AROUND MANHOLE AS REQUIRED

CAST FRAME INTO MANHOLE WHEN WALLS ARE POURED

NO MH STEPS ALLOWED

SLOPE TO DRAIN

WATER STOP (TYPICAL) SEE MAT. SPEC. 03-05 FOR APPROVED MFGS.

SHORT STUB OF PIPE NO LONGER THAN 36" OUTSIDE MANHOLE WALL

SEE PLAN OR PROFILE FOR PIPE SIZE & TYPE

CAST IN PLACE BASE POURED UPON UNDISTURBED SOIL

SEC. A-A

4 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL
N.T.S.

SD-1 / 2 — REV. DEC. 2006

SEWER MAIN

ROTATE BENDS AS REQUIRED TO ALIGN SERVICE BRANCH WITH SERVICE PIPE

WYE BRANCH

STAINLESS STEEL REPAIR CLAMP

FENCE POST

TERMCO CWHCAP OR SCH 30 PVC CAP

PLAN

ALTERNATE ADDITIONAL RISE AND BEND WHERE REQUIRED BY GREATER SEWER DEPTH

4" MINIMUM

SLOPE UP TO PROPERTY LINE

COMPACT CRUSHED STONE BACKFILL (CLASS B) TO PROVIDE SUPPORT

PROFILE

NOTES:
1. MODIFIED RISER LOCATION, SHALL BE USED WHEN DEPTH OF SEWER EXCEEDS 4'-0".
2. PROVIDE 4" MIN. DEPTH OF CLASS 7 CRUSHED STONE FOR BEDDING AS REQUIRED FOR MAINS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 1 FOOT INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB BE LOCATED LESS THAN 5 FEET FROM THE SANITARY SEWER MAIN.
4. BURY 4 X POST STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND SHALL BE FLUSH WITH GRADE OF PROPERTY. IF BURIED STEEL POST TOP IS BELOW FINISHED GRADE OF PROPERTY.
5. CLASS 51, 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 3" DUCTILE IRON FITTINGS, ALL, LINED FOR SANITARY SEWER, SHALL BE INSTALLED FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER.

STANDARD SEWER SERVICE LATERAL
N.T.S.

SD-1 / 3

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

ROTATE BENDS AS REQUIRED TO ALIGN SERVICE BRANCH WITH SERVICE PIPE

SEWER MAIN

WYE BRANCH

STAINLESS STEEL REPAIR CLAMP

BORED HOLE UNDER PAVEMENT AND TO EACH SIDE

FENCE POST

TERMCO CWHCAP

PLAN

EXISTING STREET

BC/EC

DUCTILE IRON

ALTERNATE ADDITIONAL RISE AND BEND WHERE REQUIRED BY GREATER SEWER DEPTH

STAINLESS STEEL REPAIR CLAMP

PVC

BORED HOLE UNDER PAVEMENT AND TO EACH SIDE

TERMCO CWHCAP

FENCE POST

45° MAXIMUM

SLOPE UP TO PROPERTY LINE

4" DUCTILE IRON POLY BOND LINED, CLASS 51, INSTALLED IN BORE HOLE

COMPACT CRUSHED STONE BACKFILL TO PROVIDE SUPPORT SEE MAT. SPEC. 04-04

PROFILE

NOTES:
1. MODIFIED RISER LOCATION, SHALL BE USED WHEN DEPTH OF SEWER EXCEEDS 4'-0".
2. PROVIDE 4" MIN. DEPTH CRUSHED STONE FOR BEDDING AS REQUIRED FOR MAINS. SEE MFC SPEC. 04-03
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 1 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB BE LOCATED LESS THAN 5 FEET FROM THE SANITARY SEWER MAIN.
4. BURY 4 X POST STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND SHALL BE FLUSH WITH GRADE OF PROPERTY. IF BURIED STEEL POST TOP IS BELOW FINISHED GRADE OF PROPERTY.
5. CLASS 51, 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 3" DUCTILE IRON FITTINGS, ALL, LINED FOR SANITARY SEWER, SHALL BE INSTALLED FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER. SEE MAT. SPEC. 03-02 FOR APPROVED MFGS.

BORED SEWER SERVICE LATERAL UNDER EXISTING STREET
N.T.S.

SD-1 / 4

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

REMOVE TOP MATERIAL AS MANDATED

FILL TO GRADE AS REQUIRED WITH COMPACTED CRUSHED STONE IN PAVED OR GRAVELED AREAS. SEE MAT. SPEC. 04-04. IN EARTHEN AREAS USE TOPSOIL, SEED AND MULCH.

FILL TO BROKEN SECTION WITH CRUSHED STONE

PLUG OR CRUSH EXISTING LINES

SANITARY SEWER MANHOLE ABANDONMENT
N.T.S.

SD-1 / 5

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

PVC SDR-26 BEND

4" PVC SDR-26 SERVICE

CURB

2'±

SEWER LATERAL

45° WYE

SEWER MAIN

PVC 2-THREADED CAP & PLUG

GROUND LEVEL

2-PVC RISER PIPES

H

4'

PAVEMENT

ALTERNATE ADDITIONAL RISE AND BEND WHERE REQUIRED BY GREATER SEWER DEPTH

SLOPE UP TO PROPERTY LINE

SEWER LATERAL

2-PVC COMBINATION WYE

CONNECT TO EXISTING SEWER SERVICE WITH NATURAL FIGHT RUBBER COUPLING

SEWER MAIN

45° MAXIMUM

COMPACT CRUSHED STONE BACKFILL TO PROVIDE SUPPORT SEE MFC SPEC. 04-04

TWO-WAY CLEANOUTS WILL BE INSTALLED WHEN SEWER SERVICE IS IN THE STREET

4 INCH TWO-WAY SERVICE CLEANOUT
NTS

SD-1 / 6 — REV. MAY, 2012

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

SUPPORT FRAME FROM BEAM UNTIL CONCRETE SETS

NEAT SAW CUT

±2' MIN.

VARIES

SONA TUBE

6" MIN.

24" MIN.

SEE MAT. SPEC. 04-07

NOTE: SONA TUBE MUST BE STRIPPED AWAY AFTER CONCRETE PLACEMENT.

CONCRETE RISER BLOCK OPTION 'A'
N.T.S.

NOTES:
1. MAXIMUM VERTICAL RAISING ADJUSTMENT USING THIS METHOD, MEASURED FROM TOP OF EXISTING CONE TO THE TOP OF RISER BLOCK.

SUPPORT FRAME FROM BEAM UNTIL CONCRETE SETS

NEAT SAW CUT

±2' MIN.

SONA TUBE

24" MIN.

SEE MAT. SPEC. 04-07

NOTE: SONA TUBE MUST BE STRIPPED AWAY AFTER CONCRETE PLACEMENT.

CONCRETE RISER BLOCK OPTION 'B'
N.T.S.

FOR MANHOLE EXTENSION ADJUSTMENT WHICH EXCEED 24" IN PAVED AREAS, OR FOR MANHOLE SHORTENING IN PAVED AREAS, SEE DETAIL SD-1 / 10 SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

MANHOLE ADJUSTMENT IN PAVED AREAS
N.T.S.

SD-1 / 6A — REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

PROVIDE AS LARGE A CURVE AS POSSIBLE IN FLOW CHANNELS

CHANNEL IN CONCRETE BASE, BOTTOM OF CHANNEL TO MATCH PROPOSED PIPE INVERTS

PROPOSED PIPE O.D. + 2"

MIN.

GREEN HOLE FOR FUTURE SEWER MAIN EXTENSION

2" MIN. MANHOLE WALL REMAINING FOR FUTURE EXTENSION

PROPOSED PIPE O.D. + 2"

GREENHOLE/BLOCK OUT FOR FUTURE EXTENSION
N.T.S.

SD-1 / 7 — REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. DEPTH OF BURY EXCEED 4 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 2 FEET BELOW FINISHED GRADE SURFACE. SEE MAT. SPEC. 03-09 FOR APPROVED MFGS.
2. THE TRACER WIRE SHALL EXTEND ALONG THE OUTSIDE AND TO THE TOP OF THE BOX. A "J" BOX SHALL BE PROVIDED INTO THE BOX.

2 FT. SQ. X 4" THICK CONCRETE PAD

BORD "CEMENT" ON COVER

6"LAP ON TRACER WIRE

ADJUST TOP SECTION TO FINISHED GRADE

APPROVED VALVE BOX RISER FOR APPROVED MFGS. SEE MAT. SPEC. 03-09

PLUG VALVE, ALL SEE MAT. SPEC. 03-06 FOR APPROVED MFGS.

VALVE BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. BOX MUST NOT BEAR ON VALVE/PIPE.

MARKER TAPE WRAP SEE MAT. SPEC. 03-09 FOR APPROVED MFGS.

FORCE MAIN

TRACER WIRE SEE MAT. SPEC. 03-09

CONCRETE BLOCK

UNDISTURBED EARTH

4"-12" SEWER FORCE MAIN PLUG VALVE DETAIL
N.T.S.

SD-1 / 8

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

GRANULAR BACKFILL TO HERE IF UNDER PAVEMENT

GRANULAR BACKFILL TO HERE IF NOT UNDER PAVEMENT

WRAPPED W/MARKER TAPE SEE MAT. SPEC. 03-09

6"

3" MIN. COVER

GRADE

VARIES

12 GA. COPPER TRACER WIRE SEE MAT. SPEC. 03-09

SLOPE

SLOPE

PARALLEL SEWER FORCE MAIN & SANITARY SEWER MAIN
N.T.S.

SD-1 / 9

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

SEE FRAME & COVER DETAIL SD-1 / 6

COMPACTED FILL AROUND MANHOLE AS REQUIRED

CAST-IN-PLACE P.C. CONCRETE SEE MAT. SPEC. 04-07

24" MIN.

CAST FRAME INTO MANHOLE WHEN WALLS ARE POURED

MATCH EXISTING

(4'-0")

MATCH EXISTING WALL THICKNESS (8")

REMOVE EXISTING CONE SECTION

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A MANHOLE EXTENSION.
2. A MANHOLE TO BE LOWERED SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.

SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL
N.T.S.

SD-1 / 10 — REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

MINIMUM NUMBER OF RISERS NECESSARY TO ACHIEVE GRADE

2"

COMPACTED FILL AROUND MANHOLE AS REQUIRED

CLASS B CONCRETE COLLAR, 6" ±2 RING, 4" AT TOP, TOP MUST COVER LAST RISER JOINT.

FOR MANHOLE EXTENSION ADJUSTMENT WHICH EXCEED 24" IN GREEN AREAS, OR FOR MANHOLE SHORTENING IN GREEN AREAS, SEE DETAIL SD-1 / 10 SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

MANHOLE ADJUSTMENT IN GREEN AREAS
N.T.S.

SD-1 / 10B — REV. DEC. 2006

RESERVED

SD-1 / 11

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

FLOWABLE FILL BARRIER TO BE ADDED AFTER PIPE IS INSTALLED, AT LOCATIONS AS DIRECTED BY THE ENGINEER SEE MAT. SPEC. 04-06

UTILITY MAIN

TRENCH WIDTH

UNDISTURBED EARTH

1' (TYP.)

MIN. 18" ABOVE TOP OF PIPE

EQUAL TO, OR BELOW TRENCH BOTTOM

1' (TYP.)

ANTI-SEEPAGE BARRIER COLUMN
N.T.S.

SD-1 / 12 — REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

MEET SPEC. FOR TYPE OF EXISTING JOINT

REMOVE EXIST. PAVEMENT

MEET SPEC. FOR TYPE OF EXISTING JOINT

12" MIN.

TRENCH WIDTH

6" MIN.

4" MIN.

4" SLOPE

4000 PSI CONCRETE AS ENCHANED BY ENGINEER AS REQ. REINFORCEMENT

METAL EXPANSION JOINT, TYPICAL

12"

36" MIN.

BACKFILL ENTIRE EXCAVATION WITH CRUSHED STONE (SEE MATERIAL SPECIFICATION 04-03)

SEWER MAIN/ FORCE MAIN

CONCRETE DRIVEWAY CROSSING REPAIR
N.T.S.

SD-1 / 13

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

MEET SPEC. FOR TYPE OF EXISTING JOINT

REMOVE EXIST. PAVEMENT

MEET SPEC. FOR TYPE OF EXISTING JOINT

12" MIN.

TRENCH WIDTH

6" MIN.

4" MIN.

4" SLOPE

6" MIN.

36" MIN.

BACKFILL ENTIRE EXCAVATION WITH CRUSHED STONE (SEE MATERIAL SPECIFICATION 04-03)

SEWER MAIN/ FORCE MAIN

ASPHALT DRIVEWAY/STREET CROSSING REPAIR
N.T.S.

SD-1 / 14

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

FILL ENTIRE DEPTH WITH CRUSHED STONE IN PUBLIC ROADWAYS

EXCAVATED MATERIAL NO STONES GREATER THAN 3") NO ORGANIC MATERIAL

MIN. 12" MAX. 24"

MIN. 12" MAX. 24"

ALL PIPE MATERIALS TO BE BEDDED IN & PROTECTED WITH CRUSHED STONE (SEE MATERIAL SPECIFICATION 04-03)

TRENCH/PIPE BEDDING DETAIL FOR SEWER FORCE MAINS & SANITARY SEWER MAINS
N.T.S.

SD-1 / 15

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

SD-1 / 16 — REV. DEC. 2006

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary precautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said contractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

SD-1 / 17

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

UNDISTURBED EARTHWALL

SEE MAT. SPEC. 04-09 FOR APPROVED CONC. DESIGN

TRENCH WALL (TYPICAL)

TEE

GROUND SURFACE

36" MIN.

VERTICAL (CRADLE)

90° BEND
45° BEND (SIMILAR)
22 1/2° BEND (SIMILAR)
11 1/4° BEND (SIMILAR)

45° BEND
22 1/2° BEND (SIMILAR)
11 1/4° BEND (SIMILAR)

SEE MAT. SPEC. 04-09 FOR APPROVED CONC. DESIGN

UNDISTURBED EARTHWALL

PLUG

VALVE,ALL

RE-ADJUSTMENT CLAMP ON ANCHOR ADAPTER

SEE MAT. SPEC. 04-09 FOR APPROVED CONC. DESIGN

TRENCH WALL (TYPICAL)

TEE WITH PLUG

NOTES:
1. All fittings shall be mechanical joint.
2. Do not lower bells or flanges with concrete.
3. Wrap all fittings with visqueen.
4. Block all tees according to size of branch.
5. Block all bends according to size and so such that later removal is possible.
6. At bends where fittings are used, both horizontal and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i and soil bearing pressure of 2,500 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

REACTION BACKING TABLE
REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING

SIZE	TYPE OF FITTINGS				
	TEE OR 90°	90°	45°	22 1/2°	11 1/4°
4"	1	1	1	1	1
6"	1	1	1	1	1
8"	2	2	1	1	1
10"	3	3	2	1	1
12"	4	4	2	1	1

SEWER FORCE MAIN THRUST BLOCKING DETAIL
N.T.S.

SD-1 / 18

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

BACK OF CURB

EDGE OF PAVE.

TO BE SPECIFIED

6" MIN.

6" MIN.

PLACE INSULATOR/SPACER AT CENTER OF PIPE JOINT

CASING PIPE

6" MIN.

12" MAX.

CARRIER PIPE

PLACE INSULATOR/SPACER AT ENDS OF CASING PIPE

SYNTHETIC RUBBER END SEAL

STAINLESS STEEL CLAMPS/BANDS

TWO PIECE STAINLESS STEEL BAND CASING INSULATORS/SPACERS

NOTES:
1. A MIN. OF THREE SPACERS (1 INSULATED PIPE JOINT, SPACER, MIDDLE & BELL END) EQUALLY SPACED & 2' FT. SEPARATION OF SPACERS AT JOINT). MAX. ALLOWABLE SPACER SPACING IS 10'-0". CENTER SPACER IS PLACED AT THE MIDDLE RUNNER OF SPACER IS 1".
2. ALL END SEALS SHALL BE SYNTHETIC RUBBER (NEOPRENE) WITH STAINLESS STEEL BAND AND WORM GEAR TIGHTENING DEVICE. SEE MAT. SPEC. 03-02 FOR APPROVED MFGS. EACH SEAL SHALL BE MANUFACTURER'S NAME STAMPED MARKED ON SEAL.

2" MOE UNIMIX POLYMER-PLASTIC RUNNERS/ SPACERS SPECIFICATION 04-07 FOR APPROVED SUPPLIERS

CARRIER PIPE

SYNTHETIC RUBBER END SEAL

STAINLESS STEEL BAND

STAINLESS STEEL JACK

CASING PIPE

STAINLESS STEEL CLAMPS/BANDS

SECTION A-A

SECTION B-B

CARRIER & CASING SIZES

CARRIER	6"	8"	10"	12"	14"	16"	20"	24"
CASING	14"	16"	18"	24"	30"	30"	30"	36"
CASING/WALL THICKNESS	.250	.250	.250	.375	.500	.500	.500	.625

JACK & BORE UNDER ROADWAY DETAIL
N.T.S.

SD-1 / 19 — REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

METER BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. BOX MUST NOT BEAR ON PIPE.

SEE MAT. SPEC. 03-09 FOR APPROVED MFGS.

PROVIDE 30" DIA. X 6" CONCRETE COLLAR

PVC FORCE MAIN NOTES:
1. SEWER FORCE MAIN SHALL BE WRAPPED WITH DETECTABLE UNDERGROUND WARNING TAPE LABELED "CAUTION FORCE MAIN BELOW", SEE MAT. SPEC. 03-09 FOR APPROVED MFGS.
2. TRACE WIRE, NO. 12 AWG, SINGLE CONDUCTOR, INSULATED COPPER WIRE SHALL BE INSTALLED UNDER THE PVC SEWER FORCE MAIN. ALL WIRE CONNECTIONS SHALL BE MADE USING A BURNDY CRIMP CONNECTOR. TRACER WIRE SHALL BE ACCESSIBLE FOR LOCATING DEVICES AT VALVES AND AIR VAC. RELEASE VALVE BOXES.

90

90

2'-0" MAINS

3'-0" AND 8" MAINS

4'-0" AND 8" MAINS

VARIES

TEE W/3" BRANCH, W.J. W/ RETAINER GLAND

ALL PIPE MATERIALS TO BE BEDDED IN & PROTECTED WITH CRUSHED STONE (SEE MATERIAL SPECIFICATION 04-03)

CONCRETE BLOCK

UNDISTURBED EARTH

SEWER FORCE MAIN AIR AND VACUUM RELEASE VALVE ASSEMBLY
N.T.S.

SD-1 / 20

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

12" WIDE SWING GATE STEEL GATE

8'- 0"

12'- 0"

8'- 0"

4" PRESSURE TREATED BRACE POST (TYPICAL)

4 STRANDS OF #9 WIRE TWISTED (TYPICAL)

6" PRESSURE TREATED POST (TYPICAL)

NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

FARM GATE INSTALLATION DETAIL
N.T.S.

SD-1 / 21

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

LIMITS OF NEW WIRE

8'- 0"

12'- 0"

8'- 0"

4" PRESSURE TREATED BRACE POST (TYPICAL)

4 STRANDS OF #9 WIRE TWISTED (TYPICAL)

6" PRESSURE TREATED POST (TYPICAL)

NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

BARBED WIRE FENCE CROSSING REPAIR DETAIL
N.T.S.

SD-1 / 22

4" I.D. STEEL STANDARD FILLED WITH CONCRETE, PAINTED WITH YELLOW TRAFFIC PAINT.

FINISHED GRADE

4'-0"

3'-0"

24" DIAMETER CONCRETE PIER

12"±

GUARDPOST DETAIL
N.T.S.

SD-1 / 23

SEWER DETAILS
REVISED 05/08/2012

RWU ROGERS WATER UTILITIES

P.O. DRAWER 338
OFFICE - 601 SOUTH 2ND ROGERS, ARKANSAS
72757-0338

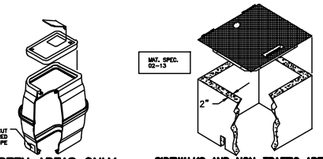
DRAWN BY:	DATE:	SHEET NO.
DDS	REV. AUG. /2007	SD-1
CHECKED BY:	PROJECT NUMBER:	
EB	STANDARD SEWER DETAILS	

DRAWING: G:\1401-JOBS\2KAUSTIN\INFRASTRUCTURE\CIVIL\DWG\STANDARD DETAILS.DWG
LAYOUT: DOUBLE SHOT DETAIL - LAST SAVED: 2/23/11 - 9:53:03 AM
PLOTTED: 2/23/11 - 9:53:33 AM BY: CHRISTOPHER BARNES - ACCESS: ALL - PAPER: 22"X34" - VALID ON HARD COPY ONLY

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	214	320

ROGERS WATER DETAILS

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

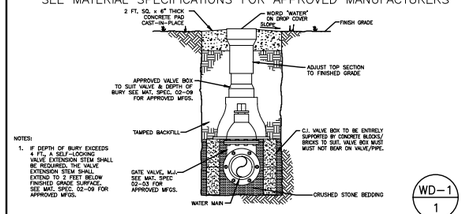


GREEN AREAS ONLY 1½"–2" METER BOX DETAILS N.T.S.

SIDEWALKS AND NON-TRAFFIC AREAS 1½"–2" METER BOX DETAILS N.T.S.

WD–1 1A REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

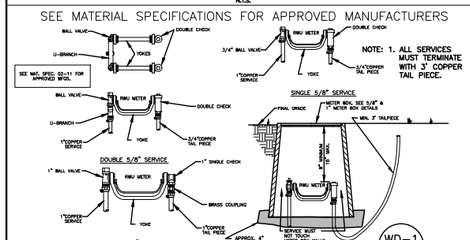


NOTES:
1. IF DEPTH OF BURY EXCEEDS 4 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 3 FEET BELOW FINISHED GRADE SURFACE. SEE MAT. SPEC. 02-09 FOR APPROVED MFGS.

GATE VALVE DETAIL N.T.S.

WD–1 1 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

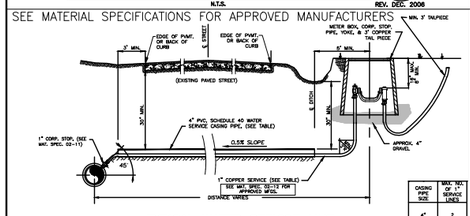


NOTE: 1. ALL SERVICES MUST TERMINATE WITH 3" COPPER TAIL PIECE.

STANDARD 5/8" & 1" WATER SERVICE DETAILS N.T.S.

WD–1 6 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



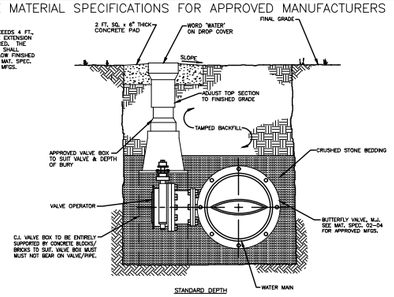
CASING PIPE SIZE	MAX. NO. OF 1" SERVICE LINES
4"	2

TYPICAL WATER SERVICE LINE WITH P.V.C. BORED CASING PIPE FOR FAR SIDE SERVICE ON EXISTING STREET N.T.S.

WD–1 12 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

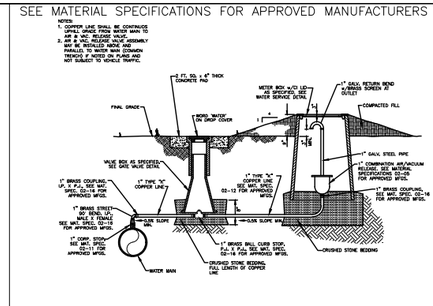
NOTES:
1. IF DEPTH OF BURY EXCEEDS 4 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 3 FEET BELOW FINISHED GRADE SURFACE. SEE MAT. SPEC. 02-09 FOR APPROVED MFGS.



BUTTERFLY VALVE DETAIL 12-INCH WATER MAINS AND LARGER N.T.S.

WD–1 2 REV. DEC. 2006

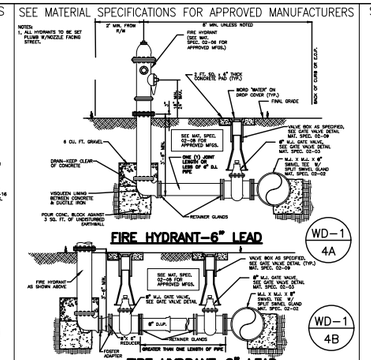
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



1" AIR & VACUUM RELEASE VALVE ASSEMBLY N.T.S.

WD–1 3 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



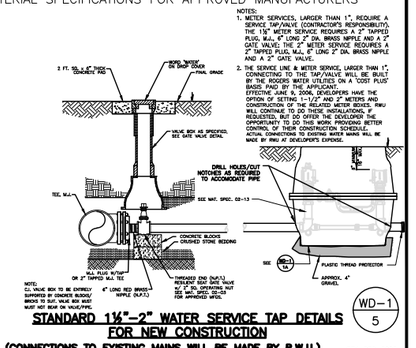
FIRE HYDRANT–6" LEAD

FIRE HYDRANT–8" LEAD N.T.S.

WD–1 4A / 4B REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. METER SERVICES, LARGER THAN 1", REQUIRE A SERVICE TAP/VALVE (CONTRACTOR'S RESPONSIBILITY). THE 1½" METER SERVICE REQUIRES A 2" TAPPED PLUG, M.J. 6" LONG 2" DIA. BRASS NIPPLE AND A 2" GATE VALVE. THE 2" METER SERVICE REQUIRES A 2" TAPPED PLUG, M.J. 6" LONG 2" DIA. BRASS NIPPLE AND A 2" GATE VALVE.
2. THE SERVICE LINE & METER SERVICE, LARGER THAN 1", CONNECTING TO THE TAP/VALVE WILL BE BUILT BY THE ROGERS WATER UTILITIES ON A "COST PLUS" BASIS PAID BY THE APPLICANT. EFFECTIVE JUNE 9, 2006, DEVELOPERS HAVE THE OPTION OF SETTING 1-1/2" AND 2" METERS AND CONSTRUCTING THE SERVICE LINE. ROGERS WATER WILL CONTINUE TO DO THESE INSTALLATIONS, IF REQUESTED, BUT DO OFFER THE DEVELOPER THE OPPORTUNITY TO DO THIS WORK PROVIDING BETTER CONTROL OF THEIR CONSTRUCTION SCHEDULE. ACTUAL CONNECTION TO EXISTING WATER MAINS WILL BE MADE BY R.W.U. AT DEVELOPER'S EXPENSE.

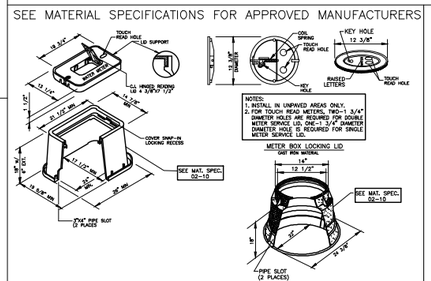


NOTE: C.I. VALVE BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. VALVE BOX MUST MUST NOT BEAR ON VALVE/PIPE.

STANDARD 1½"–2" WATER SERVICE TAP DETAILS FOR NEW CONSTRUCTION
(CONNECTIONS TO EXISTING MAINS WILL BE MADE BY R.W.U.) N.T.S.

WD–1 5 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

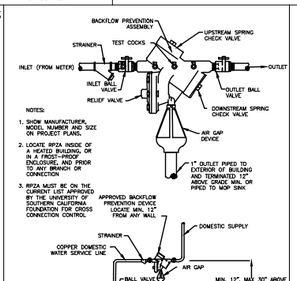


TYPICAL 1" METER BOX DETAIL (SINGLE ONLY) **TYPICAL 5/8" METER BOX DETAIL (SINGLE & DOUBLE)**

5/8" & 1" METER BOX DETAILS N.T.S.

WD–1 7 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

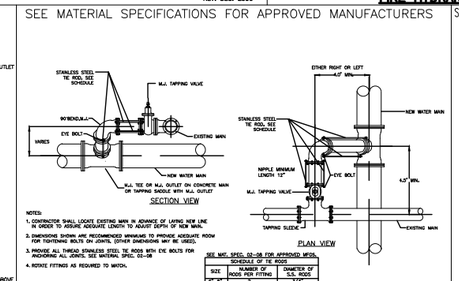


NOTES:
1. SHOW MANUFACTURER, MODEL NUMBER AND SIZE ON PROJECT PLANS.
2. LOCATE RPZA INSIDE OF A HEATED BUILDING, OR IN A HEATED ENCLOSURE, AND PRIOR TO ANY BRANCH OR CONNECTION
3. RPZA MUST BE ON THE CURRENT LIST APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL.

REDUCED PRESSURE ZONE ASSEMBLY (RPZA) N.T.S.

WD–1 8 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
2. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS OR JOINTS. OTHER DIMENSIONS MAY BE USED.
3. PROVIDE ALL THREAD STAINLESS STEEL TIE RODS WITH EYE BOLTS FOR ANCHORING ALL JOINTS. SEE MATERIAL SPEC. 02-08
4. ROTATE FITTINGS AS REQUIRED TO MATCH.

SEE MAT. SPEC. 02-08 FOR APPROVED MFGS.

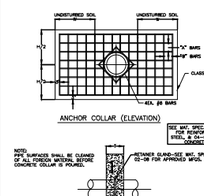
SIZE	NUMBER OF TIE RODS PER FITTING	DIAMETER OF S.S. RODS
4"–8"	2	3/4"
10"–12"	4	3/4"

SWING CONNECTION – NEW MAIN TO EXISTING MAIN N.T.S.

WD–1 9 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

PIPE SIZE	DIMENSION A	DIMENSION B	DIMENSION C	REINFORCING BARS
4"	1'-0"	1'-0"	0'-6"	4-#4 "L" BARS
6"	1'-0"	1'-0"	0'-6"	4-#4 "L" BARS
8"	1'-0"	1'-0"	0'-6"	4-#4 "L" BARS
10"	1'-0"	1'-0"	0'-6"	4-#4 "L" BARS
12"	1'-0"	1'-0"	0'-6"	4-#4 "L" BARS



NOTE: PIPE SURFACES SHALL BE CLEANED OF ALL FOREIGN MATERIAL BEFORE CONCRETE COLLAR IS POURED.

ANCHOR COLLAR BLOCK N.T.S.

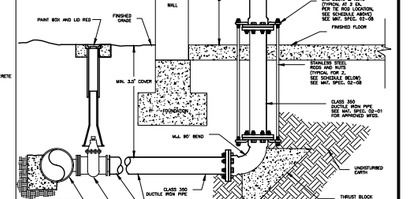
WD–1 10 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

SEE MAT. SPEC. 02-08 FOR RESTRAINING SPEC. & 04-07 FOR CONCRETE

SCHEDULE OF TIE RODS		
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
12"	4	3/4"

M.J. x FLANGE ADAPTER



IN–BUILDING D.I. FIRE SYSTEM RISER LEAD–IN DETAIL N.T.S.

WD–1 11A REV. AUG. 2007

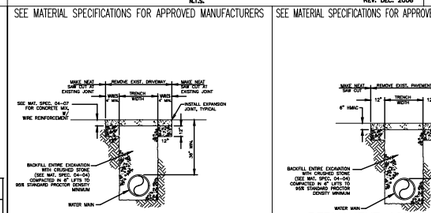
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

CASING PIPE SIZE	MAX. NO. OF 1" SERVICE LINES
4"	2

TYPICAL WATER SERVICE LINE WITH P.V.C. BORED CASING PIPE FOR FAR SIDE SERVICE ON EXISTING STREET N.T.S.

WD–1 12 REV. DEC. 2006

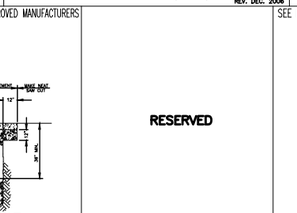
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



PERMANENT CONCRETE DRIVEWAY CROSSING REPAIR N.T.S.

WD–1 15 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



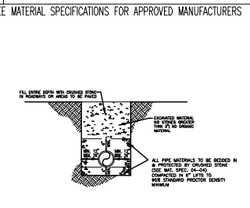
PERMANENT ASPHALT DRIVEWAY/STREET CROSSING REPAIR N.T.S.

WD–1 16 REV. DEC. 2006

RESERVED

REV. AUG. 2007

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



TRENCH/PIPE BEDDING DETAIL FOR WATER MAINS N.T.S.

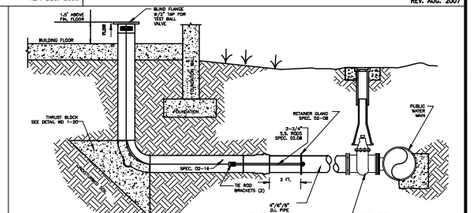
WD–1 18 REV. DEC. 2006

RESERVED

WD–1 13 WD–1 14 WD–1 17

NOT USED

REV. AUG. 2007



IN–BUILDING STAINLESS STEEL FIRE LINE RISER N.T.S.

WD–1 11B REV. AUG. 2007

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary precautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

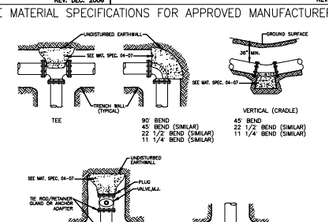
E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said contractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

WD–1 19

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



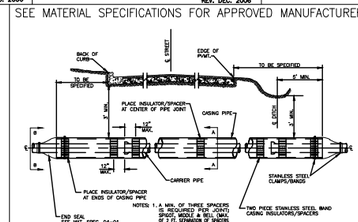
NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with Visqueen.
4. Block all tees according to size of branch.
5. Blocking future line extensions shall be such that later removal is possible.
6. Thrust blocking shall be used in both horizontal and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i. and soil bearing pressure of 2,500 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

REACTION BACKING TABLE					
REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING					
	TYPE OF FITTINGS				
SIZE	TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
4"	3	3	2	1	1
6"	5	5	3	2	1
8"	8	8	4	3	2
10"	12	12	6	4	2
12"	18	18	9	5	3

THRUST BLOCKING DETAIL N.T.S.

WD–1 20 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES: 1. A MIN. OF THREE SPACERS IS REQUIRED PER JOINT) SPACER MODEL & SIZE SHALL BE SELECTED FOR EACH JOINT) MAX. ALLOWABLE CLEARANCE BETWEEN I.D. OF CASING & O.D. OF CARRIER PIPE IS 2".
2. ALL D.I. PIPE JOINTS WITHIN CASING SHALL HAVE YIELD STRENGTH OF 42,000 PSI MIN. APPROVED MFGS. FOR EACH DIAMETER SHALL BE SPECIFIED IN THE PLANS SEE SPEC. 02-01

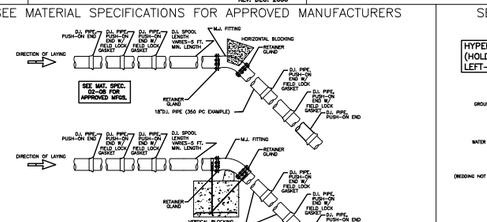
CARRIER & CASING SIZES					
CARRIER	4"	6"	12"	18"	24" 30"
CASING	10"	14"	24"	30"	36" 48"
CASING/WALL THICKNESS	.250	.250	.375	.500	.500 .625

SEE MATERIAL SPECIFICATION 04-02

JACK & BORE UNDER ROADWAY DETAIL N.T.S.

WD–1 21 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES:
1. All fittings shall be mechanical joint, with retainer glands (No Field Lock Gaskets).
2. Main size 18" requires two restrained joints (w/field lock gaskets) away from fitting, (36 ft.); main size 24" requires three restrained joints away from fitting, (54 ft.); and main size 30" requires four restrained joints away from fitting (72 ft.), or as specified by Engineer.

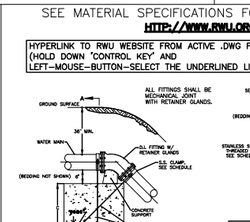
FIELD LOCK GASKETS DETAIL FOR HORIZONTAL AND VERTICAL BENDS (TO BE USED IN CONJUNCTION WITH THRUST BLOCKING) FOR 18–INCH AND LARGER WATER MAINS N.T.S.

WD–1 22 REV. DEC. 2006

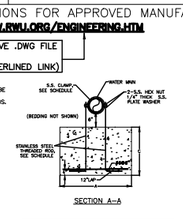
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

HYPERLINK TO RWU WEBSITE FROM ACTIVE .DWG FILE (HOLD DOWN 'CONTROL KEY' AND LEFT–MOUSE–BUTTON–SELECT THE UNDERLINED LINK)

HTTP://WWW.RWU.ORG/ENGINEERING.HTM



NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with Visqueen.
4. Cut State Hanger's 2–Bolt S.S. pipe clamp, medium–Fig. 80 or approved equal.

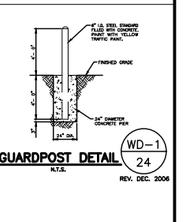


BLOCKING SCHEDULE				
SIZE	SIZE	BENDS		
		45°	22 1/2°	11 1/4°
6"	VOLUME BLOCK (CU.FT.)	4.2	2.2	1.1
	A (FT.)	2.0	1.5	1.0
	B (FT.)	2.0	1.5	1.0
8"	VOLUME BLOCK (CU.FT.)	7.5	3.9	1.9
	A (FT.)	2.5	2.0	1.5
	B (FT.)	3.0	2.5	1.5
10"	VOLUME BLOCK (CU.FT.)	11.7	6.1	3.0
	A (FT.)	3.0	2.5	2.0
	B (FT.)	4.0	3.0	2.0
12"	VOLUME BLOCK (CU.FT.)	16.9	8.8	4.3
	A (FT.)	3.5	3.0	2.5
	B (FT.)	5.0	4.0	2.5
18"	VOLUME BLOCK (CU.FT.)	38.0	19.8	9.7
	A (FT.)	5.0	4.5	3.5
	B (FT.)	8.0	6.0	4.0
24"	VOLUME BLOCK (CU.FT.)	67.5	35.2	17.2
	A (FT.)	7.0	6.0	5.0
	B (FT.)	10.0	8.0	5.0

VOLUME CALCULATED ON THE BASIS OF CONCRETE BEARING STRENGTH OF 2,000 PSI AND SOIL BEARING STRENGTH OF 1,500 PSF FOR EVERY FOOT OF DEPTH TO THE TOP OF THE HEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

VERTICAL TIE–DOWN BLOCKING DETAIL N.T.S.

WD–1 23 REV. DEC. 2006



GUARDPOST DETAIL N.T.S.

WD–1 24 REV. DEC. 2006

WATER DETAILS
UPDATED DRAWING 07/12/2011

ROGERS WATER UTILITIES
P.O. DRAWER 338
OFFICE – 601 SOUTH 2ND ROGERS, ARKANSAS
72757-0338

DRAWN BY:	DATE:	SHEET NO.
DDS	REV. AUG./07	WD–1
CHECKED BY:	PROJECT NUMBER:	
EB	STANDARD WATER DETAILS	

DRAWING: C:\161\400_JA\NUTRI\INFRASTRUCTURE\CIVIL\DWG\STANDARD DETAILS.DWG
LAYOUT: 21 4 WD–1 JA-ST-SHEET, ET-SP1, 8/2/2033 12:28:55 AM
XREF: TITLE BLOCK.DWG, WD–1 JA-ST-SHEET, ET-SP1, 8/2/2033 12:28:55 AM
PLOTTED BY: VALID (VALID COPY ONLY)

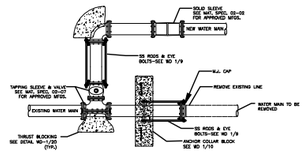
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	215	320

ROGERS WATER DETAILS

RESERVED

WD-2 1A

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



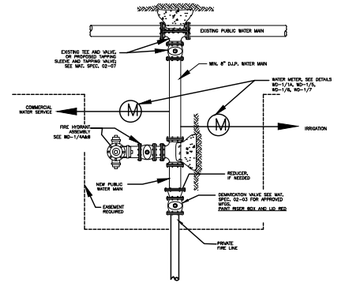
CUT AND CAP DETAIL #1
N.T.S.

WD-2 1 REV. DEC. 2006

RESERVED

WD-2 6

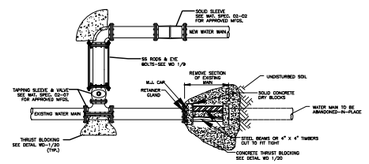
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



COMMERCIAL, IRRIGATION AND FIRE LINE CONNECTION DETAIL
N.T.S.

WD-2 2 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



CUT AND CAP DETAIL #2 "HOT-BLOCK"
N.T.S.

WD-2 7 REV. DEC. 2006

RESERVED

WD-2 8

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 9 REV. NOV. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 10

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

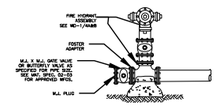
WD-2 11

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 3 REV. MAR. 2009

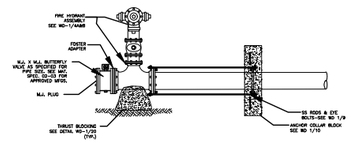
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



END-OF-LINE/PHASE LINE FIRE HYDRANT DETAIL 8" & 12" MAINS
N.T.S.

WD-2 4 REV. DEC. 2006

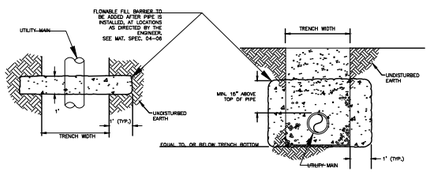
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



END-OF-LINE/PHASE LINE FIRE HYDRANT DETAIL MAINS LARGER THAN 12"
N.T.S.

WD-2 5 REV. DEC. 2006

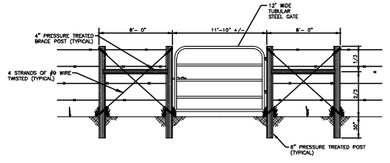
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



ANTI-SEEPAGE BARRIER COLUMN
N.T.S.

WD-2 12 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

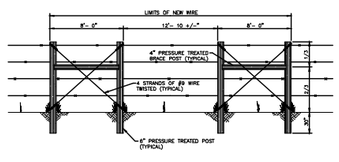


NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

FARM GATE INSTALLATION DETAIL
N.T.S.

WD-2 13 REV. AUG. 2007

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

BARBED WIRE FENCE CROSSING REPAIR DETAIL
N.T.S.

WD-2 14 REV. AUG. 2007

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 15

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 16

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 17

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 18

METER SIZING AND MAIN CONNECTION DATA

METER SIZE	FLOW RANGE	CONNECTION TO MAIN		METER BOX APPROX. SIZE		SOURCE
		NEW MAIN	EXISTING MAIN	SIDEWALK	GREEN AREAS	
5/8" (SINGLE OR DOUBLE)	1-20 GPM	1" CORP. STOP	1" CORP. STOP		~22" DIA. BASE	SEE STANDARD SPEC. 02-10
1"	3-50 GPM	1" CORP. STOP	1" CORP. STOP		~18"X24" BASE	SEE STANDARD SPEC. 02-10
1 1/2"	4-120 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	32" x 42" (PRECAST BOX)	2~24"x 37" METER BOXES	SEE STANDARD SPEC. 02-13
2"	4-160 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	32" x 42" (PRECAST BOX)	2~24"x 37" METER BOXES	SEE STANDARD SPEC. 02-13
3"	5-350 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	8' L. x 5.5' W. x 4' D.		PRECAST BY PILE CONCRETE, LOWELL , AR
4"	15-1000 GPM	MAIN x 4" TEE AND VALVE	MAIN x 4" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWU FOR LID DETAIL
6"	30-2,000 GPM	MAIN x 6" TEE AND VALVE	MAIN x 6" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWU FOR LID DETAIL
8"	35-3,500 GPM	MAIN x 8" TEE AND VALVE	MAIN x 8" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWU FOR LID DETAIL

NOTE: CONECTIONS TO NEW MAINS ARE CONSTRUCTED BY THE CONTRACTOR. CONNECTIONS TO EXISTING MAINS ARE CONSTRUCTED BY RWU ON A COST PLUS BASIS

WD-2 19

WD-2 20

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 21

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 22

RESERVED

WD-2 23

WATER DETAILS
UPDATED DRAWING 07/12/2011

RWU ROGERS WATER UTILITIES
P.O. DRAWER 336
OFFICE - 601 SOUTH 2ND ROGERS, ARKANSAS
72757-0336

DRAWN BY:	DATE:	SHEET NO.
DDS	REV. JAN./08	WD-2
CHECKED BY: EB	PROJECT NUMBER: STANDARD WATER DETAILS	

DRAWING: G:\1401482\AVAILABLE\INFRASTRUCTURE\CIVIL\DWG\STANDARD DETAILS.DWG
LAYOUT: 23 BWG WD-2_LAST SAVED: EEBY: ALEXIS 6/2/2023 12:29:35 AM
LAST PLOTTED: 6/2/2023 12:30:54 AM BY: ALEXIS
XREFS: NONE

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	216	320

AEP-SWEPCO PLANS

AEP
Southwestern Electric Power

WALNUT STREET
ROGERS,AR.
HIGHWAY 71B
JOB#090338

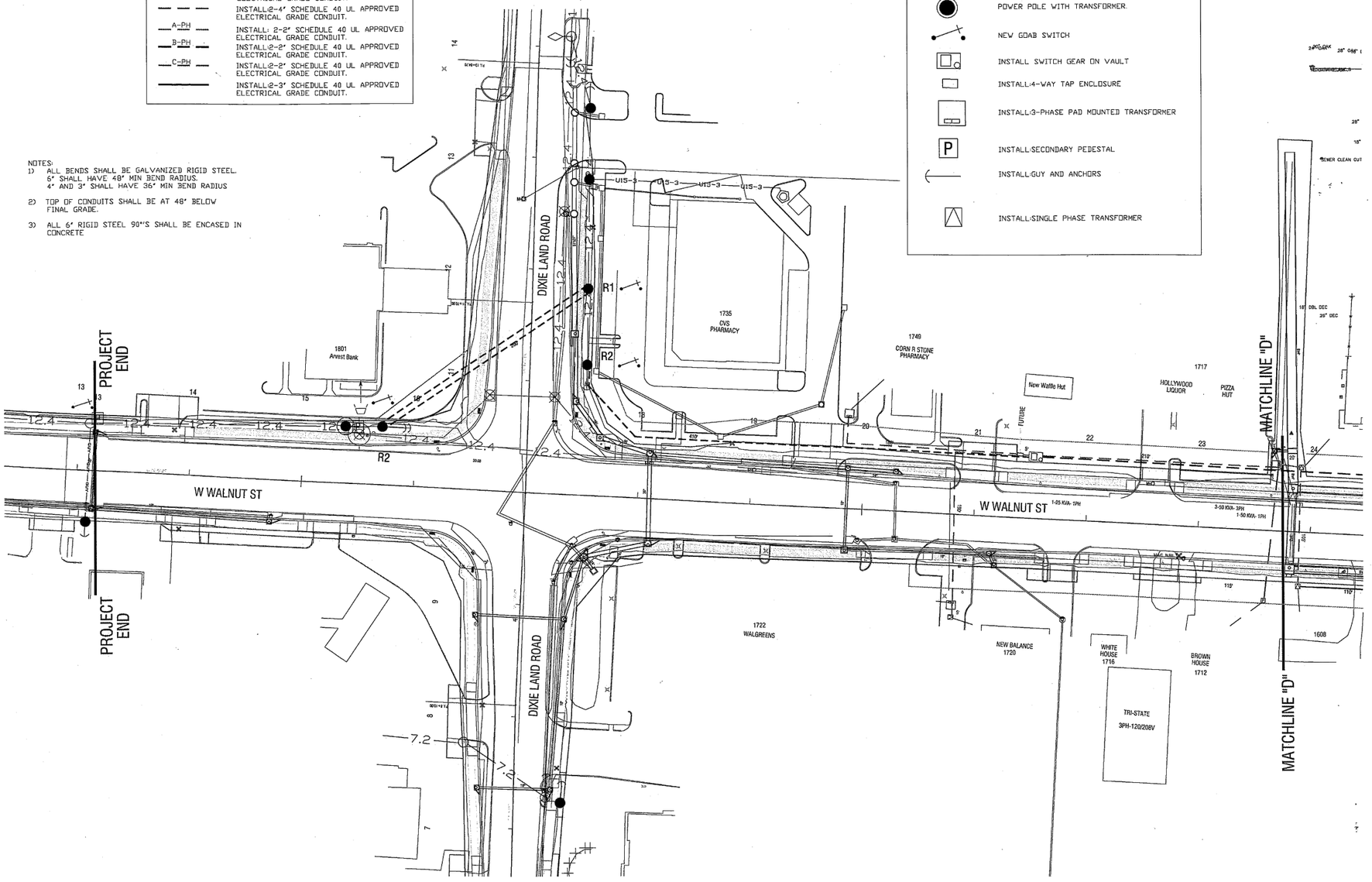
CONDUIT LEGEND

- - - - -	INSTALL:2-6" SCHEDULE 40 UL APPROVED ELECTRICAL GRADE CONDUIT.
— — —	INSTALL:2-4" SCHEDULE 40 UL APPROVED ELECTRICAL GRADE CONDUIT.
A-PH	INSTALL: 2-2" SCHEDULE 40 UL APPROVED ELECTRICAL GRADE CONDUIT.
B-PH	INSTALL:2-2" SCHEDULE 40 UL APPROVED ELECTRICAL GRADE CONDUIT.
C-PH	INSTALL:2-2" SCHEDULE 40 UL APPROVED ELECTRICAL GRADE CONDUIT.
———	INSTALL:2-3" SCHEDULE 40 UL APPROVED ELECTRICAL GRADE CONDUIT.

LEGEND

- EXISITNG POWER POLE.
- INSTALL POWER POLE
- POWER POLE WITH TRANSFORMER.
- NEW GOAB SWITCH
- INSTALL SWITCH GEAR ON VAULT
- INSTALL:4-WAY TAP ENCLOSURE
- INSTALL:3-PHASE PAD MOUNTED TRANSFORMER
- P INSTALL:SECONDARY PEDESTAL
- INSTALL:GUY AND ANCHORS
- INSTALL:SINGLE PHASE TRANSFORMER

NOTES:
1) ALL BENDS SHALL BE GALVANIZED RIGID STEEL. 6" SHALL HAVE 48" MIN BEND RADIUS. 4" AND 3" SHALL HAVE 36" MIN BEND RADIUS
2) TOP OF CONDUITS SHALL BE AT 48" BELOW FINAL GRADE.
3) ALL 6" RIGID STEEL 90"'S SHALL BE ENCASED IN CONCRETE



N
W E
S

REV.	DATE	BY

SWEPCO

CONDUIT PLAN FOR W WLANUT ST FOR THE ARKANSAS HIGHWAY PROJECT JOB#090338 FROM 8TH ST TO DIXIELAND RD LOCATED IN ROGERS,ARKANSAS.

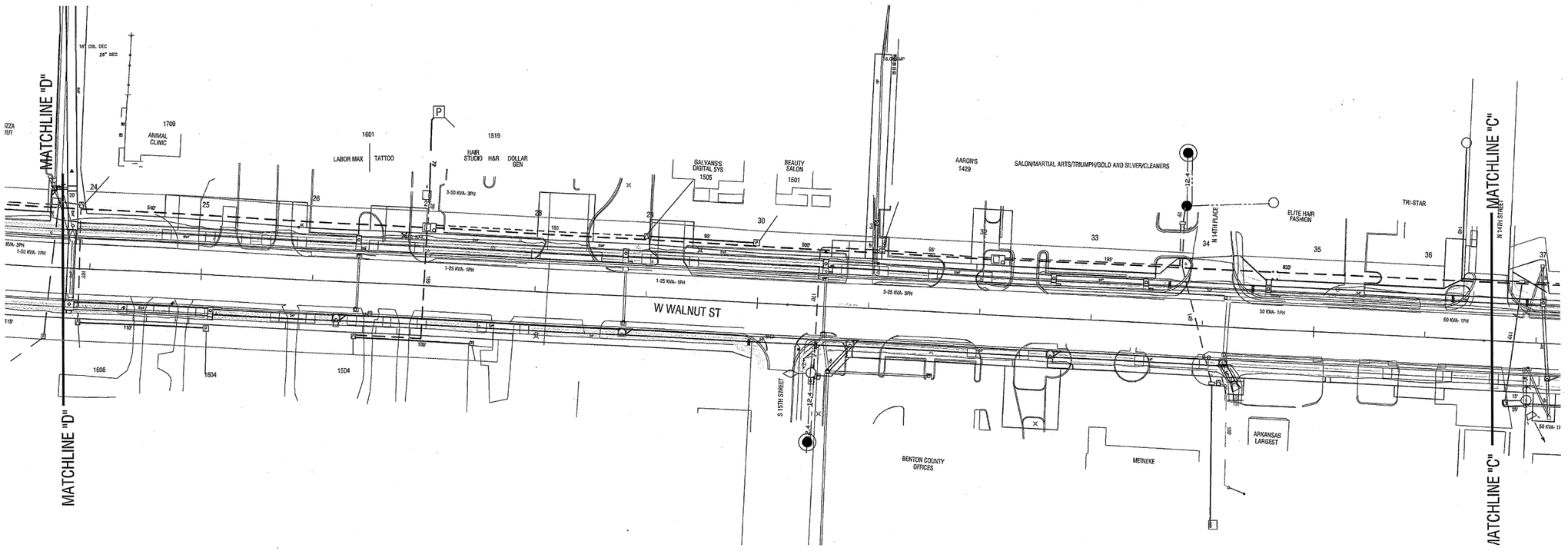
ENGINEERING DEPARTMENT
FAYETTEVILLE DISTRICT

W.R.# | W.O.#
DRAWN BY: RON BERTRAM
DATE:
DRWG. NO. D-17- | SH. 4/4

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	217	320
		AEP-SWEPCO PLANS				

AEP
Southwestern Electric Power

WALNUT STREET
ROGERS,AR.
HIGHWAY 71B
JOB#090338



CONDUIT LEGEND

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LEGEND

- EXISITNG POWER POLE.
- INSTALL POWER POLE
- POWER POLE WITH TRANSFORMER.
- NEW GOAB SWITCH
- INSTALL SWITCH GEAR ON VAULT
- INSTALL:4-WAY TAP ENCLOSURE
- INSTALL:3-PHASE PAD MOUNTED TRANSFORMER
- INSTALL:SECONDARY PEDESTAL
- INSTALL:GUY AND ANCHORS
- INSTALL:SINGLE PHASE TRANSFORMER

N
W E
S

REV.	DATE	BY

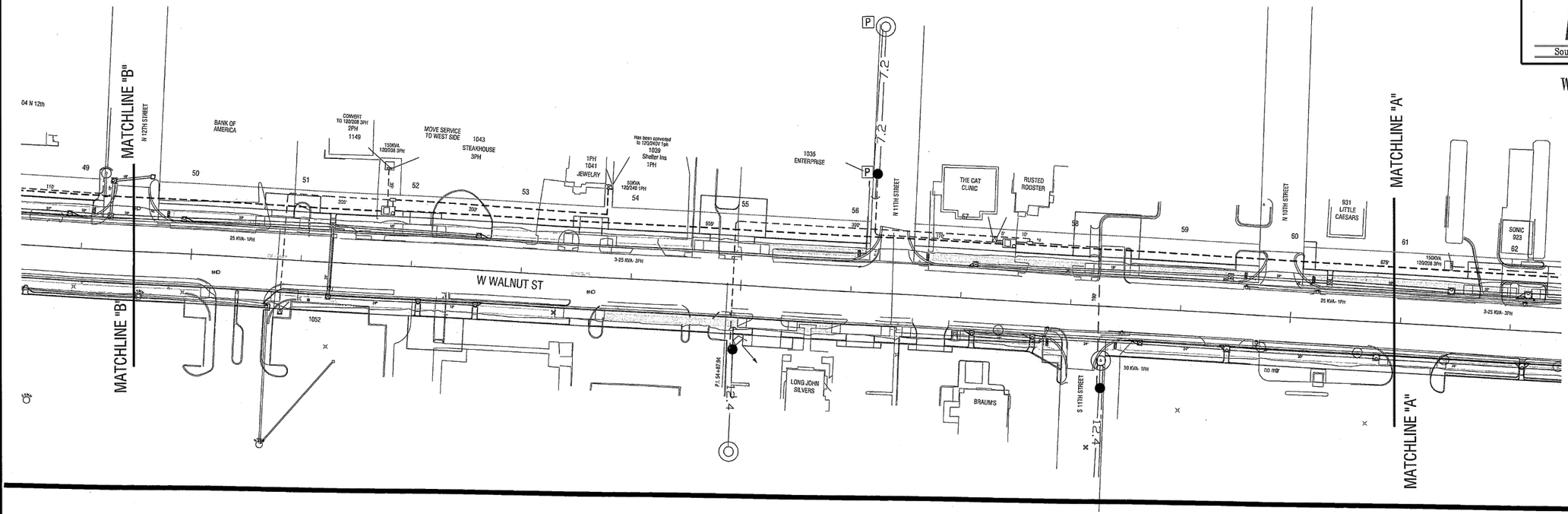
SWEPCO	ENGINEERING DEPARTMENT FAYETTEVILLE DISTRICT
CONDUIT PLAN FOR W WLANUT ST FOR THE ARKANSAS HIGHWAY PROJECT JOB#090338 FROM 8TH ST TO DIXIELAND RD LOCATED IN ROGERS,ARKANSAS.	W.R.# W.O.#
	DRAWN BY:RON BERTRAM
	DATE:
	DRWG. NO. D-17- SH. 3/4

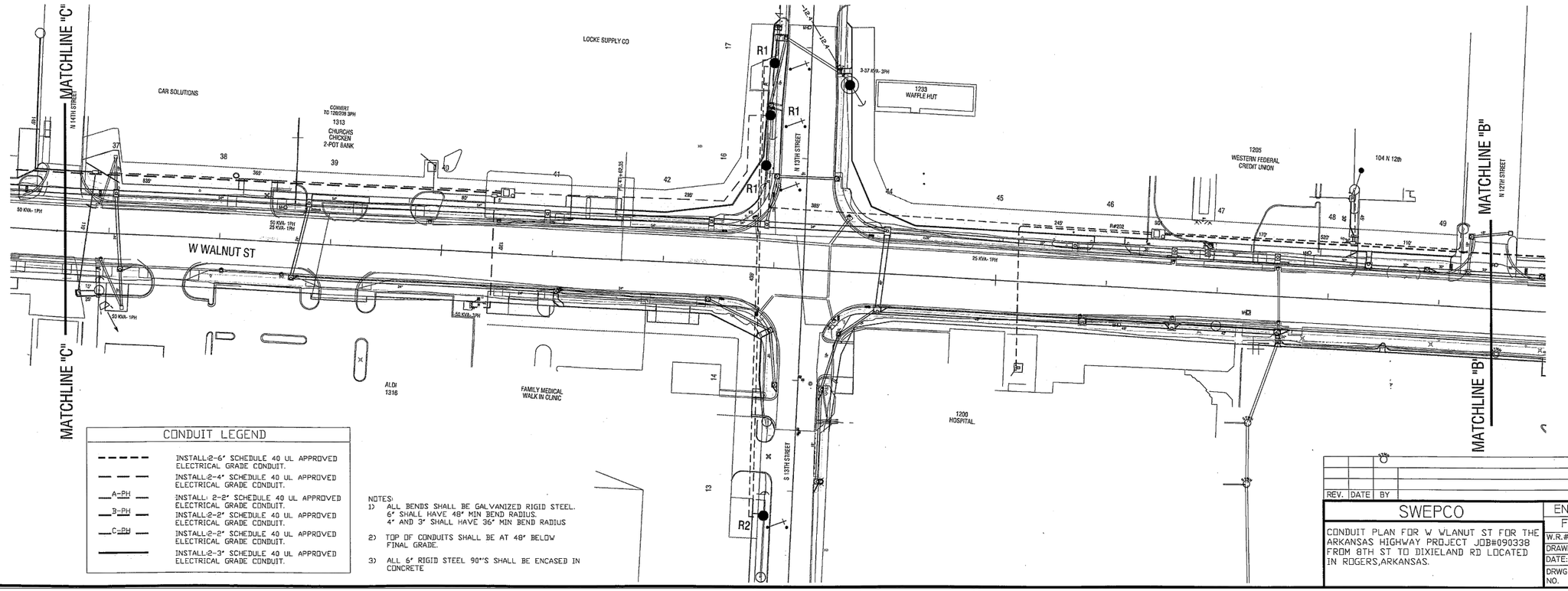
DRAWING: C:\1450\ROGERS\WALNUT\INFRASTRUCTURE\CIVIL\DWG\ART PLAN2.DWG
LAYOUT: 3 SCF4 - LAST SAVED: 12:24PM - WED 23 7:03:33 AM
LAST EDITED BY: TIM WARD ON MONDAY, 7/7/2008 03:03:03 PM. PLOTTED BY: VALID ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	218	320
		AEP-SWEPCO PLANS				

AEP
Southwestern Electric Power

WALNUT STREET
ROGERS,AR
HIGHWAY 71B
JOB#090338





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REV.	DATE	BY

SWEPCO

CONDUIT PLAN FOR W WLANUT ST FOR THE ARKANSAS HIGHWAY PROJECT JOB#090338 FROM 8TH ST TO DIXIELAND RD LOCATED IN ROGERS,ARKANSAS.

ENGINEERING DEPARTMENT
FAYETTEVILLE DISTRICT

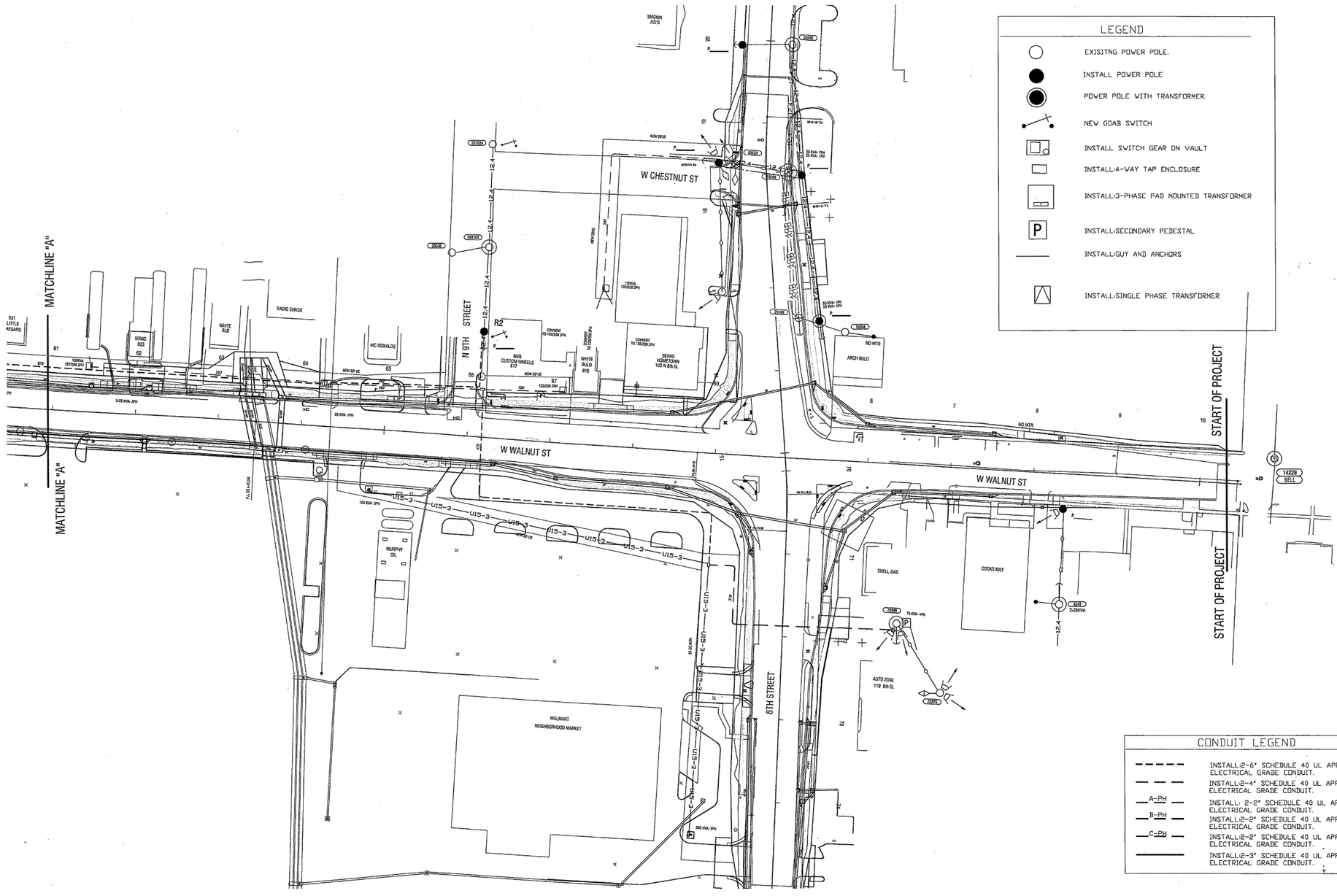
W.R.# W.O.#
DRAWN BY: RON BERTRAM
DATE:
DRWG. NO. D-17- SH. 2/4

DRAWING: G:\1610\400_PLN\UTILITY\INFRASTRUCTURE\CIVIL\DWG\LAYOUT PLANS.DWG
LAYOUT: 2 SHEET 4, LAST SAVED AT 2:37PM, 3/9/2023 7:03:37 AM
PLOTTED BY: RON BERTRAM ON 3/9/2023 2:37:52 PM, PLOTTED BY: "VALID ON HARD COPY ONLY"

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	219	320
		AEP-SWEPCO PLANS				

AEP
Southwestern Electric Power

W WALNUT STREET
ROGERS,AR.
HIGHWAY 71B
JOB#090338
CONDUIT PLAN



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REV.	DATE	BY

SWEPCO

CONDUIT PLAN FOR W WLANUT ST FOR THE ARKANSAS HIGHWAY PROJECT JOB#090338 FROM 8TH ST TO DIXIELAND RD LOCATED IN ROGERS,ARKANSAS.

ENGINEERING DEPARTMENT
FAYETTEVILLE DISTRICT

W.R.#	W.O.#
DRAWN BY: RON BERTRAM	
DATE:	
DRWG. NO. D-17-	SH.1/4

DRAWING: G:\1610\400_PLAN\UTILITY\INFRASTRUCTURE\CIVIL\DWG\LAYOUT PLANS.DWG
LAYOUT: 1 SAVED: 4/12/2017 3:57:23 PM PLOTTED: 4/12/2017 3:59:28 PM BY: VALID ON HARD COPY ONLY!
LAST EDITED BY: RON BOWDEN XREFS: LAYOUT PLANS.DWG
THIS DRAWING IS THE PROPERTY OF AEP AND IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF AEP

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219A	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
12/4/23

END ROAD WORK G20-2
SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

W9-3 LANE CLOSED
8' BARR. TYP. III LT.

LEFT LANE CLOSED AHEAD W20-5L
100'
W4-2L
100'

W3-1
W16-9P AHEAD

160' BARREL TAPER

TRAFFIC DRUMS SPACED 20' O.C.

PLACE EXISTING TRAFFIC SIGNAL IN FLASH MODE FOR THE DURATION OF THE CLOSURE (FLASHING YELLOW E/W & FLASHING RED N/S). INTERSECTION SHALL BE REOPENED AND TRAFFIC SIGNAL FUNCTION RESTORED AS SOON AS CONSTRUCTION ALLOWS.

STOP R1-1
DETOUR
M4-9

12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00

W. WALNUT ST. (HWY 71B)

3-OM-3L ON P.C.C.B.
220'
40'
TRAFFIC DRUMS SPACED 20' O.C.
20'
TAPER RATE 13:1
MH 1-1 MH 1-2 MH 1-3 MH 1-4 MH 1-5 MH 4-1

4-OM-3L ON P.C.C.B.
OM-3L

FURNISH & INSTALL TEMPORARY IMPACT ATTENUATION BARRIER
225' BARREL TAPER
100'
105'
W4-2L
LEFT LANE CLOSED AHEAD W20-5L
TRAFFIC DRUMS SPACED 20' O.C.

FURNISH & INSTALL 1546 LF P.C.C.B. W/DELINEATORS INCLUDING 2 SPECIAL END UNITS

3-OM-3L ON P.C.C.B.
40'
180'
20'
OM-3L

THE REMOVAL OF PAVEMENT MUST BE SEPARATED FROM THE PAVEMENT TO REMAIN BY SAW CUT AND IS SUBSIDIARY TO THE INSTALLATION OF SANITARY SEWER.

100' 100' 225' BARREL TAPER
LEFT LANE CLOSED AHEAD W20-5L
W4-2L

FURNISH & INSTALL TEMPORARY IMPACT ATTENUATION BARRIER

SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS
ROAD WORK 500 FT W20-1
ROAD WORK 1000 FT W20-1
ROAD WORK 1500 FT W20-1

4-OM-3L ON P.C.C.B.
OM-3L

DETOUR M4-9

S. DIXIELAND RD.

STOP R1-1
DETOUR M4-9

TRAFFIC DRUMS SPACED 20' O.C.

TRAFFIC DRUMS SPACED 20' O.C.
W3-1
AHEAD W16-9P

225' BARREL TAPER
100'
100'

W4-2L
LEFT LANE CLOSED AHEAD W20-5L

SYMBOLS
SIGN
TRAFFIC DRUMS
P.C.C.B.

UTILITIES MAINTENANCE OF TRAFFIC
STAGE 1 – S. DIXIELAND TO STA. 22+00

DRAWING: G:\161\140_WALNUT\ELU\MASTER\CURB\CIVIL\DWG\MOT PLANS.DWG
LAYOUT: MOT PLANS 1 (SHT 1 OF 1 PLOT SCALE=1.0000 '/ IN) 12/5/2023 8:53:50 AM
PLOTTED BY: ANNA MARIE CRAIG (ANNA MARIE.CRAIG@TETRATECH.COM) 10 YEAR MAINTENANCE PLOTTER BY: * YARDI ORH HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219B	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 50' 100' 200'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10208
WILLIAM C. BURNETT
12/4/23



UTILITIES MAINTENANCE OF TRAFFIC
UTILITIES STAGE 1 – S. DIXIELAND TO STA. 22+00
DETOUR MAP

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219C	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
12/4/23

MATCH LINE

15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00

OM-3L
3-OM-3L ON P.C.C.B.
TRAFFIC DRUMS SPACED 20' O.C.
40'
11'

MH 1-1 MH 1-2 MH 1-3 MH 1-4 MH 1-5 MH 1-6 MH 4-1 MH 9-1

TAPER RATE 13:1

W. WALNUT ST. (HWY 71B)

LEFT LANE CLOSED AHEAD
W20-5L

160' 120' 20' 225' BARREL TAPER 180'

W4-2L

RELOCATE TEMPORARY IMPACT ATTENUATION BARRIER

4-OM-3L ON P.C.C.B.
OM-3L

THE REMOVAL OF PAVEMENT MUST BE SEPARATED FROM THE PAVEMENT TO REMAIN BY SAW CUT AND IS SUBSIDIARY TO THE INSTALLATION OF SANITARY SEWER.

RELOCATE 1546 LF P.C.C.B W/DELINEATORS INCLUDING 2 SPECIAL END UNITS. FURNISH & INSTALL 2020 LF P.C.C.B. W/ DELINEATORS

S. DIXIELAND RD.

S. 15TH ST.

SYMBOLS
SIGN
TRAFFIC DRUMS
P.C.C.B.

UTILITIES MAINTENANCE OF TRAFFIC
STAGE 2 – STA. 22+00 TO STA 37+40

DRAWING: G:\1410\240_MANUFUEL\INFRASTRUCTURE\CIVIL\DWG\MOT PLANS.DWG
LAYOUT: MOT PLANS 2 OF 2 PH 2 - LAST SAVED: 7/23/24 11:03 AM BY: TYLER.BRADLEY
PLOTTED: 7/23/24 11:03 AM BY: TYLER.BRADLEY (LAST PLOTTED: 7/23/24 11:03 AM BY: TYLER.BRADLEY)
USE OF THIS FILE BEYOND THE SPECIFIC PURPOSE INTENDED BY ITS CREATOR IS AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE CREATOR. (VALID ON HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219D	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10208
WILLIAM C. BURNETT
12/4/23

MATCH LINE

END ROAD WORK G20-2
ROAD WORK AHEAD W20-1
SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS
N. 14TH PL.
N. 14TH ST.
DETOUR M4-9
100'
4-OM-3L ON P.C.C.B.
OM-3L
TRAFFIC DRUMS SPACED 20' O.C.
W4-2L
LEFT LANE CLOSED AHEAD W20-5L
90'
110'
N. 13TH ST.
MH 5-1
225' BARREL TAPER
TAPER RATE 13:1
MH 1-8
MH 1-9
MH 1-7
MH 1-6
MH 1-10
MH 1-11
W. WALNUT ST. (HWY 71B)
40'
3-OM-3L ON P.C.C.B.
180'
20'
RELOCATE TEMPORARY IMPACT ATTENUATION BARRIER
MH 9-1
SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS
ROAD WORK AHEAD W20-1
END ROAD WORK G20-2
S. 15TH ST.
S. 13TH ST.
29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00

SYMBOLS
SIGN
TRAFFIC DRUMS
P.C.C.B.

UTILITIES MAINTENANCE OF TRAFFIC
STAGE 2 – STA. 22+00 TO STA. 37+40

DRAWING: G:\1610 #2_WALNUT\ELU\MRKSTR\OTUR\CIVIL\DWG\MOT PLANS.DWG
LAYOUT: MOT PLANS 1 OF 1 PH: 2 LAST SAVED: 12/7/2023 8:03:50 AM
USER: CWILLIAMS PLOTTED: 12/7/2023 8:04 AM BY: CWILLIAMS
LAST PLOTTED BY: BRIAN HOWARD ON 12/7/2023 11:14 AM PLOTSTAMP: Y:\AID ON HARD COPY ONLY!

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219E	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 50' 100' 200'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10208
WILLIAM C. BURNETT
William C. Burnett
12/4/23



UTILITIES MAINTENANCE OF TRAFFIC
UTILITIES STAGE 2 – STA. 22+00 TO STA. 37+40
DETOUR MAP

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219F	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
12/4/23

N. 14TH PL.
N. 14TH ST.
MATCH LINE
N. 13TH ST.
S. 15TH ST.
S. 13TH ST.
W. WALNUT ST. (HWY 71B)

31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

ROAD WORK AHEAD
W20-1

DETOUR
M4-9

SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

END ROAD WORK
G20-2

100'

3-OM-3L ON P.C.C.B.
OM-3L

40'

TRAFFIC DRUMS SPACED 20' O.C.

RELOCATE TEMPORARY IMPACT ATTENUATION BARRIER

MH 1-7 MH 1-8 MH 1-9 MH 1-10 MH 1-11

20' 180' TAPER RATE 13:1

90' 110' 225' BARREL TAPER

LEFT LANE CLOSED AHEAD
W20-5L

W4-2L

4-OM-3L ON P.C.C.B.
OM-3L

THE REMOVAL OF PAVEMENT MUST BE SEPARATED FROM THE PAVEMENT TO REMAIN BY SAW CUT AND IS SUBSIDIARY TO THE INSTALLATION OF SANITARY SEWER.

RELOCATE 4626 LF P.C.C.B. W/DELINEATORS INCLUDING 2 SPECIAL END UNITS

SYMBOLS

SIGN
TRAFFIC DRUMS
P.C.C.B.

UTILITIES MAINTENANCE OF TRAFFIC
STAGE 3 – STA 37+40 TO N. 10TH ST.

DRAWING: C:\1410140_WALNUT\ENVIRASTRUCT\DRVC\DWG\MOT PLANS.DWG
LAYOUT: MOT PLANS 4 GAP (PAL) 8.1 (LAST SAVED: 12/5/2023 8:03:30 AM
PLOTTED: 12/5/2023 8:04:09 AM BY: MATTHEW.HEY - VAULT.ON-HAND.COPY ONLY!)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219G	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10208
WILLIAM C. BURNETT
12/4/23

LEFT LANE CLOSED AHEAD
W20-5L
W4-2L
100'
100'
160' BARREL TAPER
W3-1
AHEAD W16-9P
TRAFFIC DRUMS SPACED 20' O.C.
MATCH LINE
N. 12TH ST.
STOP
R1-1
DETOUR
M4-9
PLACE EXISTING TRAFFIC SIGNAL IN FLASH MODE FOR THE DURATION OF THE CLOSURE (FLASHING YELLOW E/W & FLASHING RED N/S). INTERSECTION SHALL BE REOPENED AND TRAFFIC SIGNAL FUNCTION RESTORED AS SOON AS CONSTRUCTION ALLOWS.
ROAD WORK AHEAD
W20-1
SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS
END ROAD WORK
G20-2
MH 6-1
MH 6-2
MH 6-3
40+00
41+00
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+00
51+00
W. WALNUT ST. (HWY 71B)
MH 1-10
MH 1-11
MH 1-12
MH 1-13
S. 13TH ST.
180' BARREL TAPER
W3-1
W16-9P AHEAD
W4-2L
100'
100'
LEFT LANE CLOSED AHEAD
W20-5L
SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS
ROAD WORK 500 FT
W20-1
ROAD WORK 1000 FT
W20-1
ROAD WORK 1500 FT
W20-1

SYMBOLS
SIGN
TRAFFIC DRUMS
P.C.C.B.

UTILITIES MAINTENANCE OF TRAFFIC
STAGE 3 – STA 37+40 TO N. 10TH ST.

DRAWING: C:\14\0140_WALNUT\PLS\RASTER\DETOURS\CIVIL\DWG\MOT PLANS.DWG
LAYOUT: MOT PLANS 3 OF 7 PH: 3 DATE: 12/5/2023 3:53:53 PM
XREF: C:\14\0140_WALNUT\PLS\RASTER\DETOURS\CIVIL\DWG\XREF - YARD.DGN HARD COPY CHK.TI

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219H	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
12/4/23

MATCH LINE

N. 12TH ST.

MH 6-3

MH 7-1

MH 1-13

MH 1-14

MH 1-15

W. WALNUT ST. (HWY 71B)

MH 8-3

MH 8-2

MH 8-1

N. 11TH ST.

N. 10TH ST.

S. 11TH ST.

49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00 64+00

SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2

DETOUR
M4-9

100'

4-OM-3L ON P.C.C.B.
OM-3L

SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2

DETOUR
M4-9

100'

W4-2L

100' 100'

225' BARREL TAPER

TAPER RATE 13:1

40'

180'

20'

RELOCATE TEMPORARY IMPACT ATTENUATION BARRIER

3-OM-3L ON P.C.C.B.
OM-3L

TRAFFIC DRUMS SPACED 20' O.C.

LEFT LANE CLOSED AHEAD
W20-5L

DETOUR
M4-9

100'

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2

SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

SYMBOLS

SIGN
TRAFFIC DRUMS
P.C.C.B.

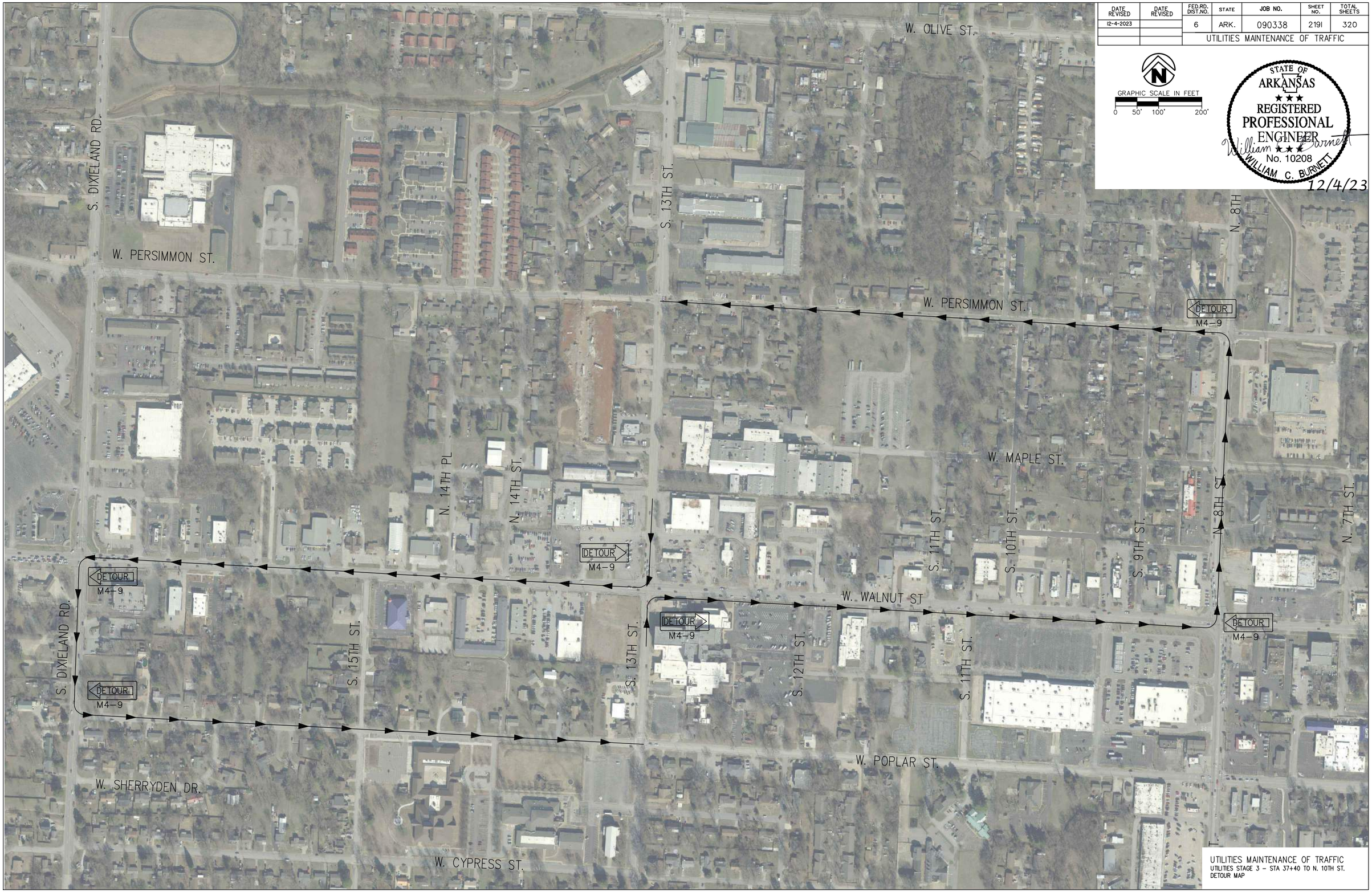
UTILITIES MAINTENANCE OF TRAFFIC
STAGE 3 – STA 37+40 TO N. 10TH ST.

DRAWING: G:\161040_WAINUT\01_INFRASTRUCTURE\CIVIL\DWG\MOT PLANS.DWG
LAYOUT: MOT PLANS 09 (TRUE_LAST SAVED: 12/3/2023 8:03:20 AM
PLOTTED BY: ROBERT.BARNES ON: 12/4/2023 11:13:33 AM TO PLOTTER: \\YARD ON HARD COPY ONLY\

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	2191	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 50' 100' 200'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10208
WILLIAM C. BURNETT
12/4/23



UTILITIES MAINTENANCE OF TRAFFIC
UTILITIES STAGE 3 – STA 37+40 TO N. 10TH ST.
DETOUR MAP

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219J	320
		UTILITIES MAINTENANCE OF TRAFFIC				

GRAPHIC SCALE IN FEET
0 25' 50' 100'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
William C. Burnett
No. 10208
WILLIAM C. BURNETT
12/4/23

ROAD WORK 500 FT W20-1
ROAD WORK 1000 FT W20-1
ROAD WORK 1500 FT W20-1
SEE ROADWAY MOT PLAN FOR SIGN SPACING, QUANTITIES AND LOCATIONS

END ROAD WORK G20-2
SEE ROADWAY MOT PLAN FOR SIGN SPACING, QUANTITIES AND LOCATIONS

ROAD WORK AHEAD W20-1
SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

END ROAD WORK G20-2

N. 9TH ST.
N. 8TH ST.
S. 8TH ST.
S. 7TH ST.
W. WALNUT ST. (HWY 71B)

66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00

100'

3-OM-3L ON P.C.C.B. OM-3L

THE REMOVAL OF PAVEMENT MUST BE SEPARATED FROM THE PAVEMENT TO REMAIN BY SAW CUT AND IS SUBSIDIARY TO THE INSTALLATION OF SANITARY SEWER.

DETOUR M4-9

4-OM-3L ON P.C.C.B. OM-3L

W4-2L LEFT LANE CLOSED AHEAD W20-5L

225' BARREL TAPER 100' 100'

RELOCATE TEMPORARY IMPACT ATTENUATION BARRIER

MH 3-1 MH 3-2 MH 3-3

40' 40' 20' 80' 112'

RELOCATE TEMPORARY IMPACT ATTENUATION BARRIER

RELOCATE 826 LF P.C.C.B. W/DELINEATORS INCLUDING 2 SPECIAL END UNITS

4-OM-3L ON P.C.C.B. OM-3L

3-OM-3L ON P.C.C.B. OM-3L

TRAFFIC DRUMS SPACED 20' O.C.

SEE ROADWAY MOT PLANS FOR SIGN SPACING, QUANTITIES AND LOCATIONS

DETOUR M4-9

ROAD WORK 500 FT W20-1
ROAD WORK 1000 FT W20-1
ROAD WORK 1500 FT W20-1
END ROAD WORK G20-2

SEE ROADWAY MOT PLAN FOR SIGN SPACING, QUANTITIES AND LOCATIONS

ROAD WORK 500 FT W20-1
ROAD WORK 1000 FT W20-1
ROAD WORK 1500 FT W20-1

SYMBOLS
SIGN
TRAFFIC DRUMS
P.C.C.B.

UTILITIES MAINTENANCE OF TRAFFIC
STAGE 3 – S. 8TH ST TO END OF PROJECT

DRAWING: C:\1610 ATD WAINUTE\UNIRASTRUCTURE\CIVIL\DWG\MOT PLANS.DWG
LAYOUT: MOT PLAN 4 (ALL LAYS) 11:57:09 AM 12/4/2023 BY: YAVID.CHANDLER
XREFS: ROADWAY MOT PLAN.DWG, 12/4/2023 11:56:11 AM BY: YAVID.CHANDLER
XREFS: ROADWAY MOT PLAN.DWG, 12/4/2023 11:56:11 AM BY: YAVID.CHANDLER (HARD COPY ONLY)

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
12-4-2023		6	ARK.	090338	219K	320
		UTILITIES MAINTENANCE OF TRAFFIC				

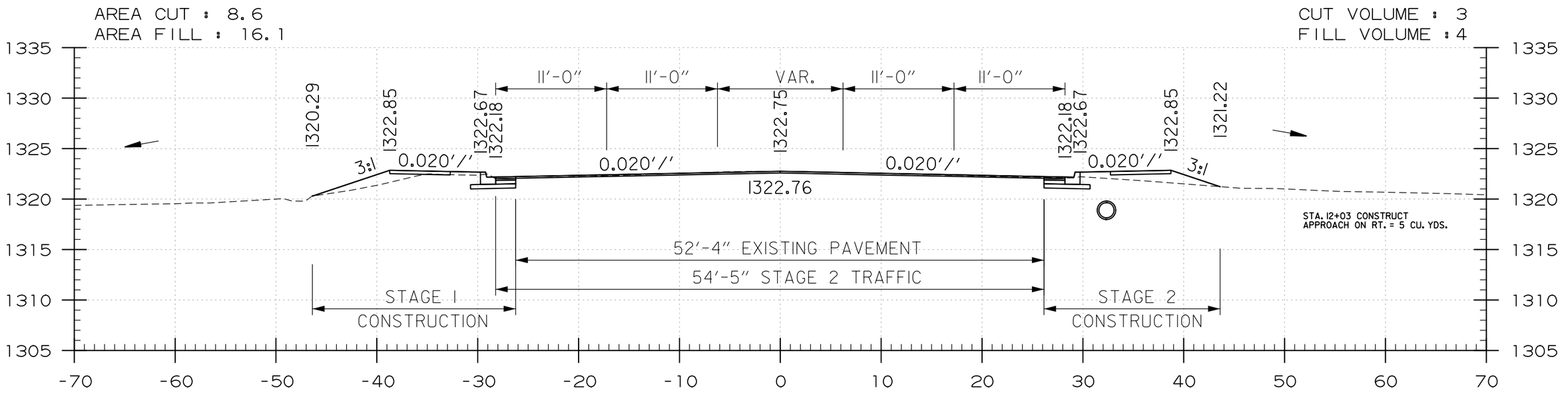
GRAPHIC SCALE IN FEET
0 50' 100' 200'

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10208
WILLIAM C. BURNETT
William C. Burnett
12/4/23

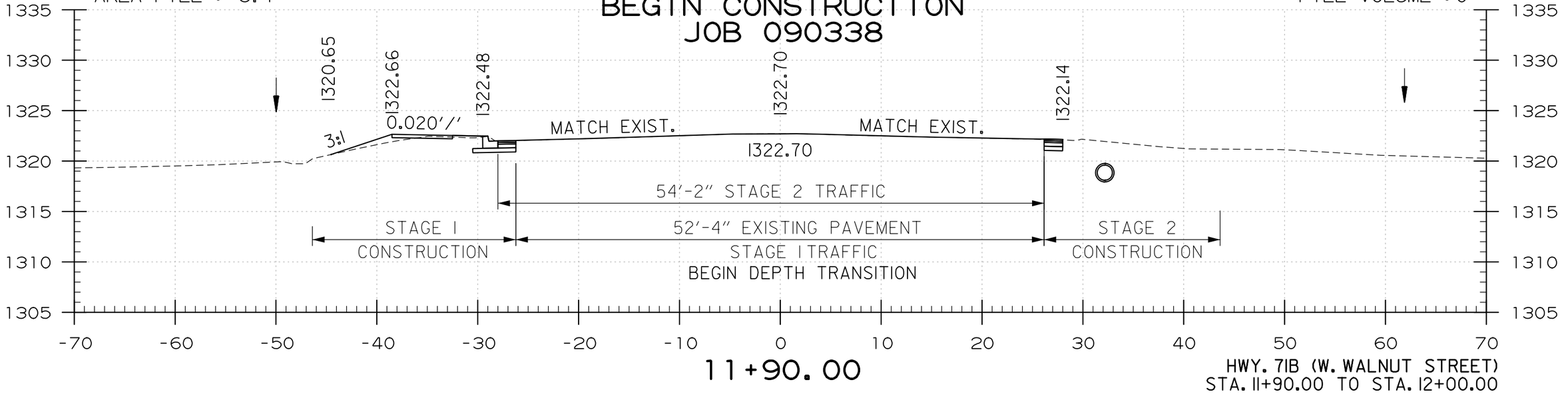


UTILITIES MAINTENANCE OF TRAFFIC
STAGE 4 – S. 8TH ST TO END OF PROJECT
DETOUR MAP

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	220	320
		CROSS SECTIONS				



12+00.00
HWY. 71B STA. 11+90.00
BEGIN CONSTRUCTION
JOB 090338



11+90.00

HWY. 71B (W. WALNUT STREET)
STA. 11+90.00 TO STA. 12+00.00

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1=10

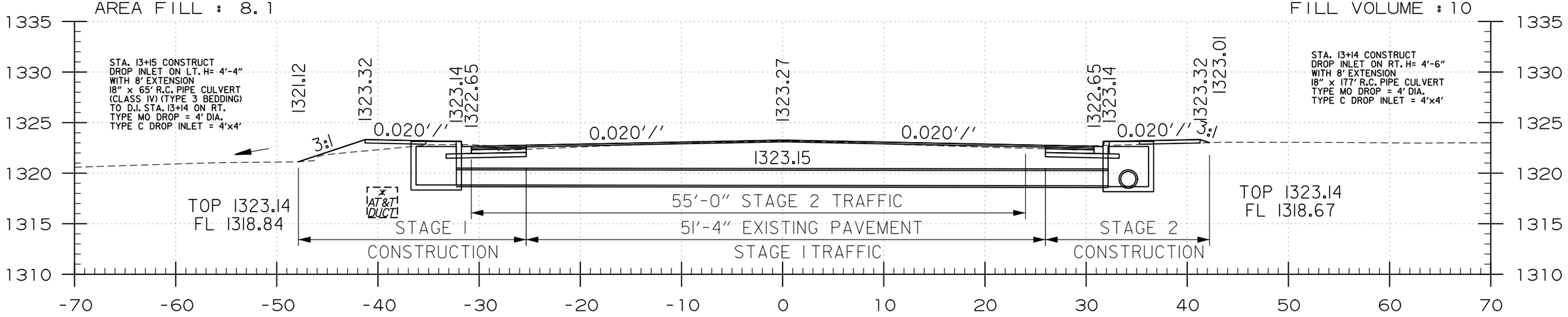
G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	221	320
		CROSS SECTIONS				

DRIVEWAY PROFILE DATA NOT SHOWN
ON THESE CROSS SECTIONS. REFER TO
DRIVEWAY PROFILE SHEETS (TYP.).

AREA CUT : 13.9
AREA FILL : 8.1

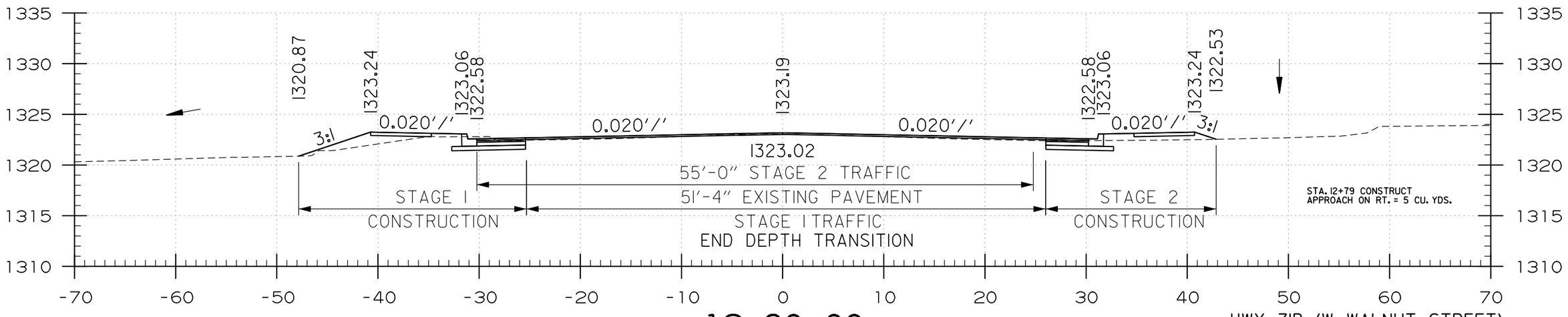
CUT VOLUME : 12
FILL VOLUME : 10



13+15.00

AREA CUT : 12.9
AREA FILL : 12.9

CUT VOLUME : 36
FILL VOLUME : 48



12+90.00

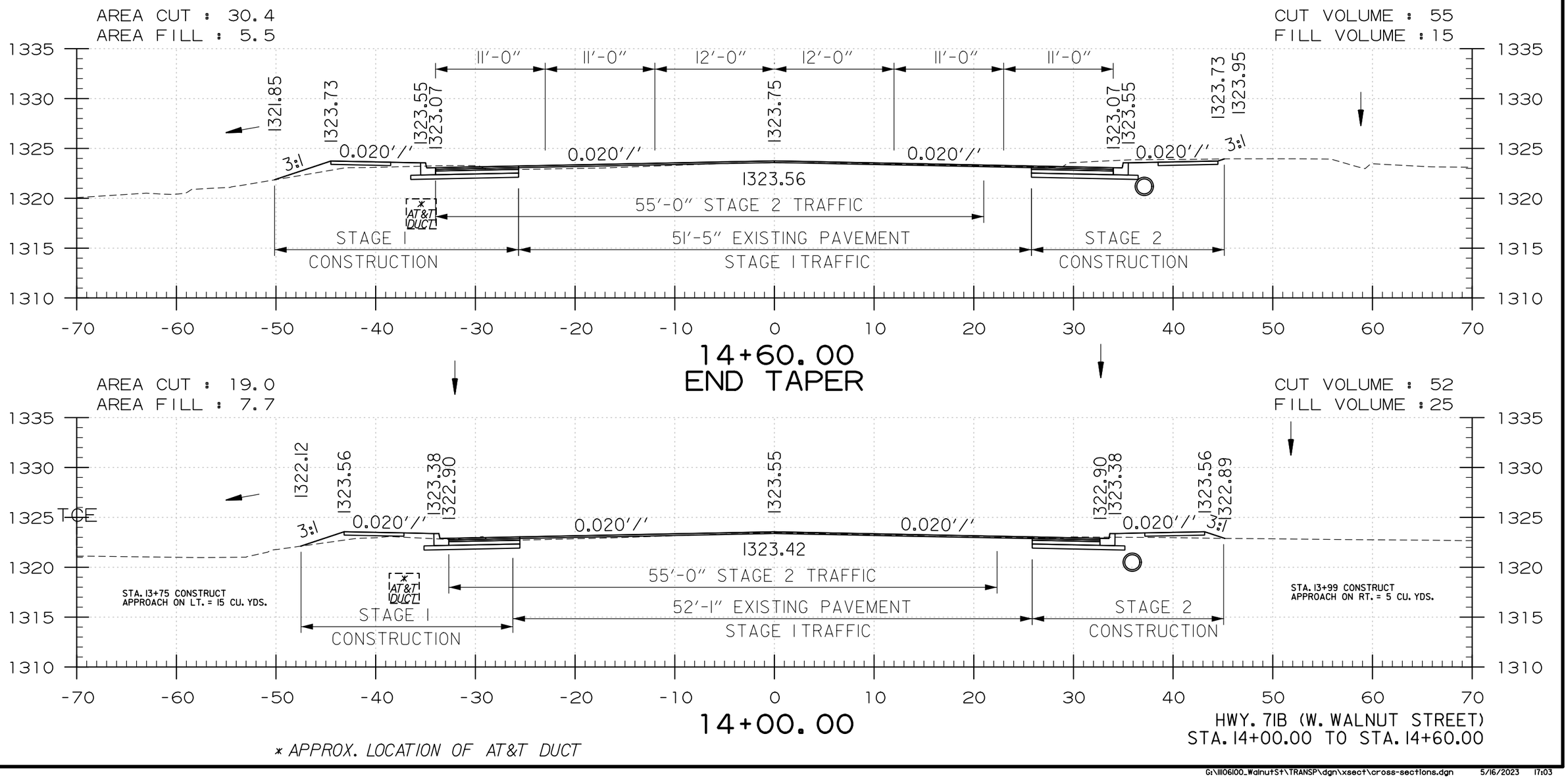
HWY. 71B (W. WALNUT STREET)
STA. 12+90.00 TO STA. 13+15.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	222	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

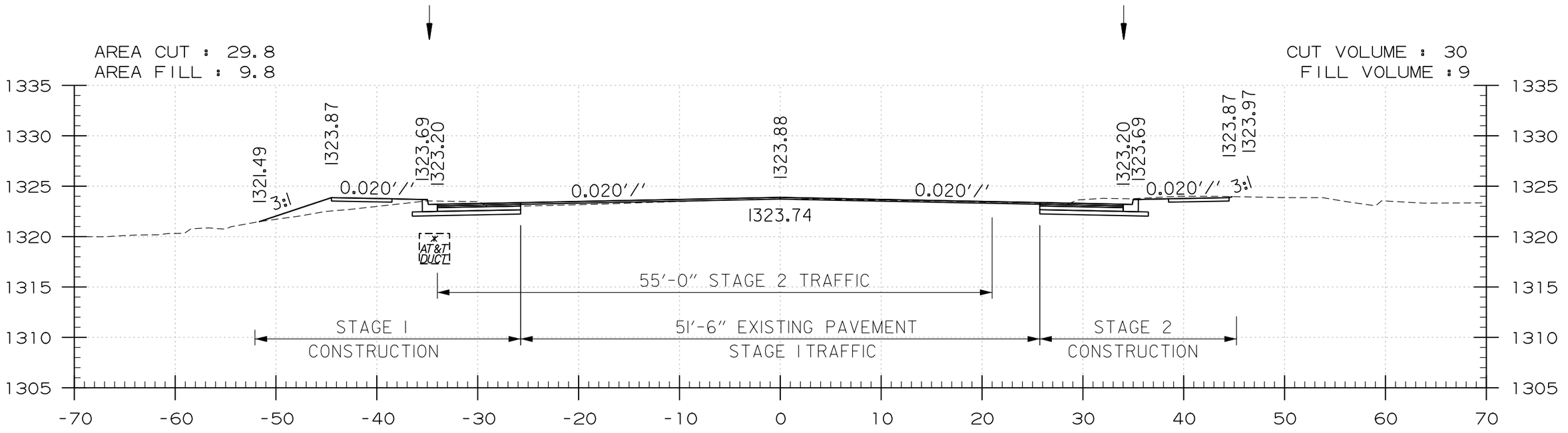
HWY. 71B (W. WALNUT STREET)
STA. 14+00.00 TO STA. 14+60.00

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

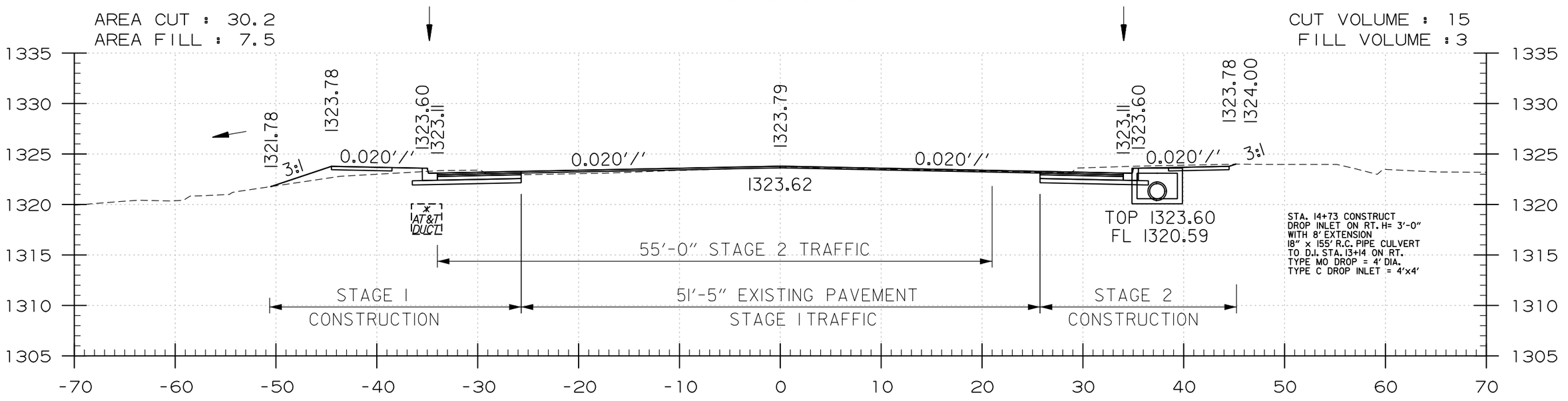
G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	223	320
		CROSS SECTIONS				

STA. 15+25 CONSTRUCT
APPROACH ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.



15+00.00



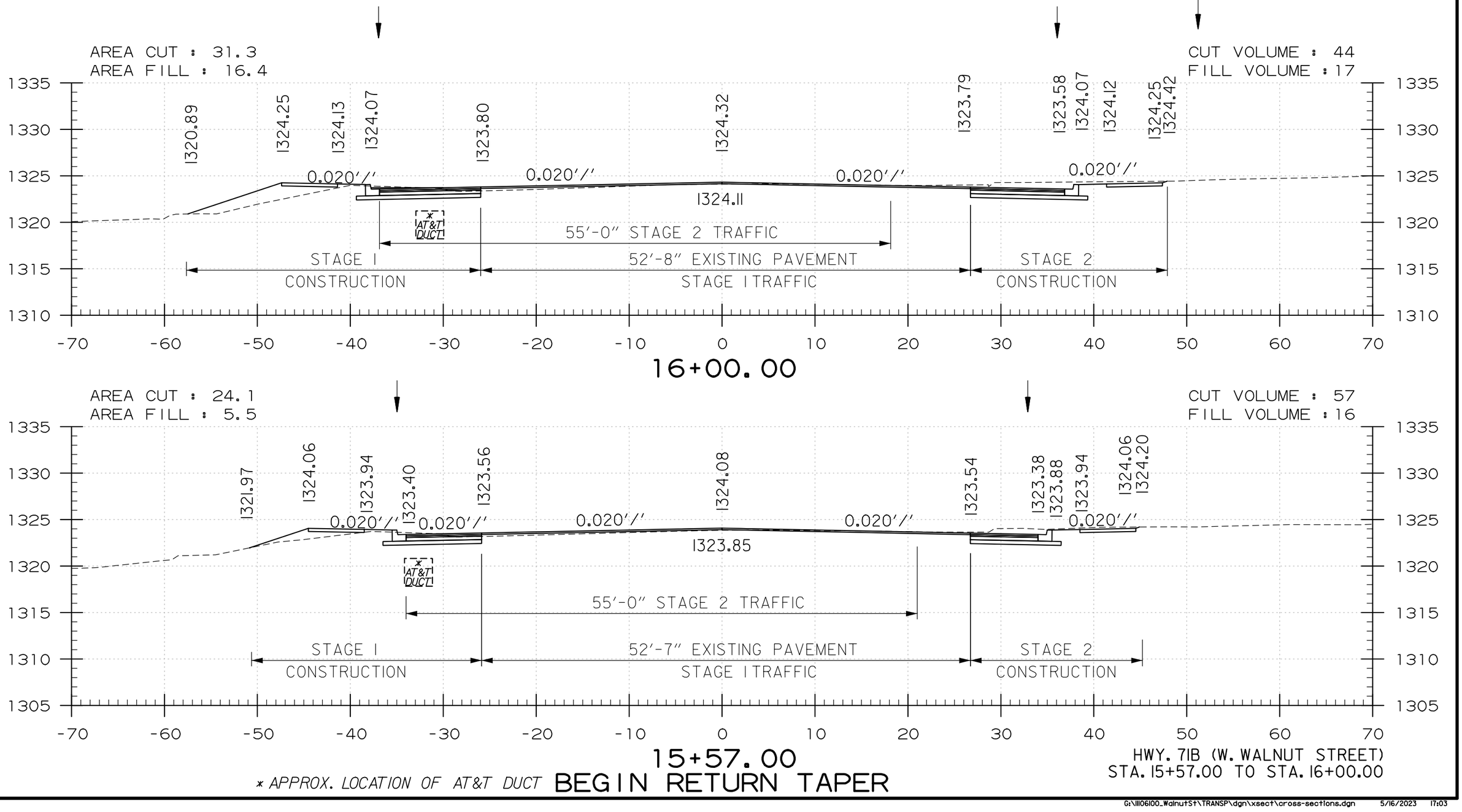
14+73.00

HWY. 71B (W. WALNUT STREET)
STA. 14+73.00 TO STA. 15+00.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	224	320
		CROSS SECTIONS				



* *APPROX. LOCATION OF AT&T DUCT*

BEGIN RETURN TAPER

HWY. 71B (W. WALNUT STREET)
STA. 15+57.00 TO STA. 16+00.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1i0

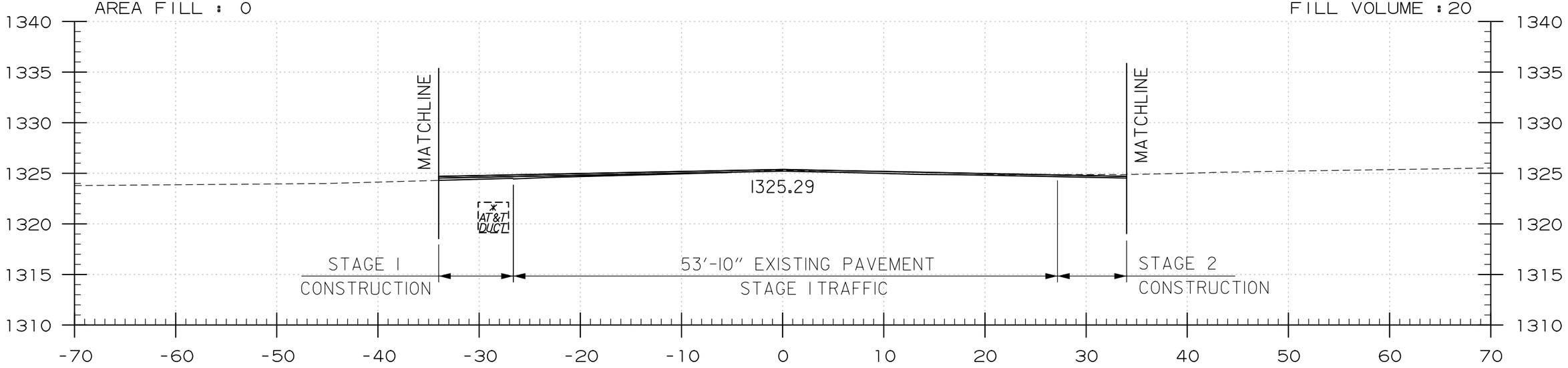
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	225	320
		CROSS SECTIONS				

DIXIELAND RD. STA. 8+17 TO
HWY. 71B STA. 17+75 ON RT. CONSTRUCT
SIDEWALK (TYPE SPECIAL)
TURNED DOWN WALL H=3'-0" MAX.
WITH 146 LIN. FT. HAND RAILING

AREA CUT : 0.4
AREA FILL : 0

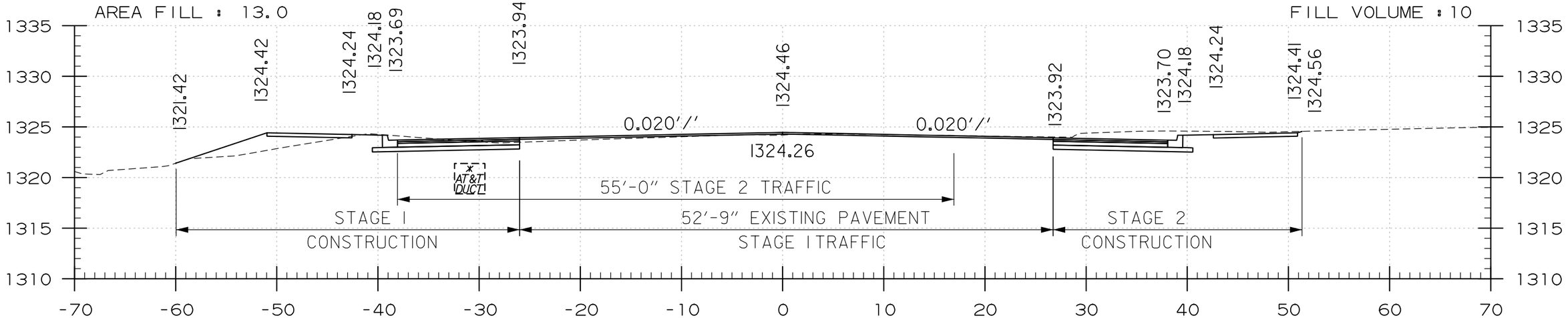
CUT VOLUME : 52
FILL VOLUME : 20



17+00.00

AREA CUT : 34.1
AREA FILL : 13.0

CUT VOLUME : 22
FILL VOLUME : 10



16+18.00

HWY. 71B (W. WALNUT STREET)
STA. 16+18.00 TO STA. 17+00.00

* APPROX. LOCATION OF AT&T DUCT

APPROX. BEGIN RETURN

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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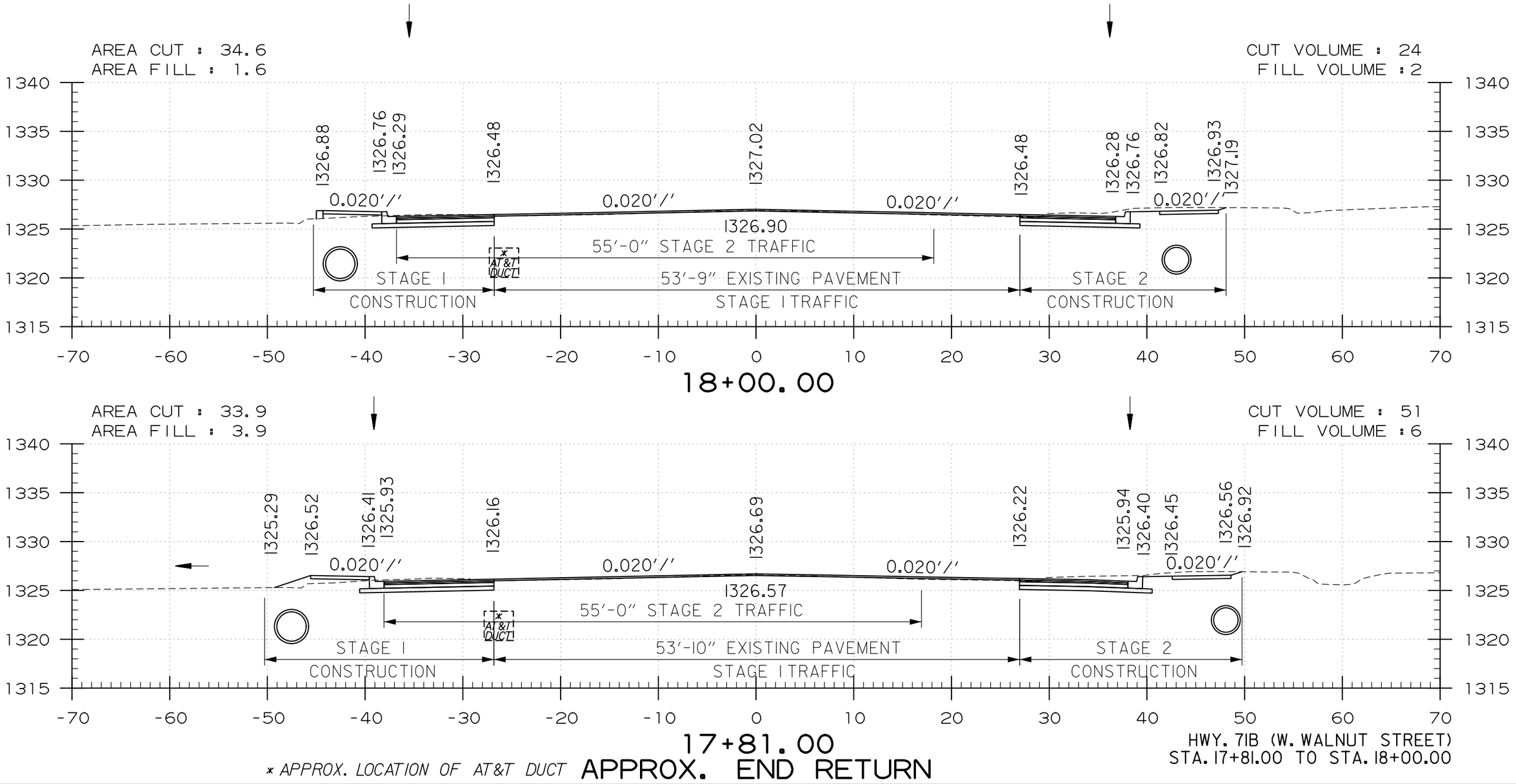
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	226	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

APPROX. END RETURN

HWY. 71B (W. WALNUT STREET)
STA. 17+81.00 TO STA. 18+00.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
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SCALE: 1:10

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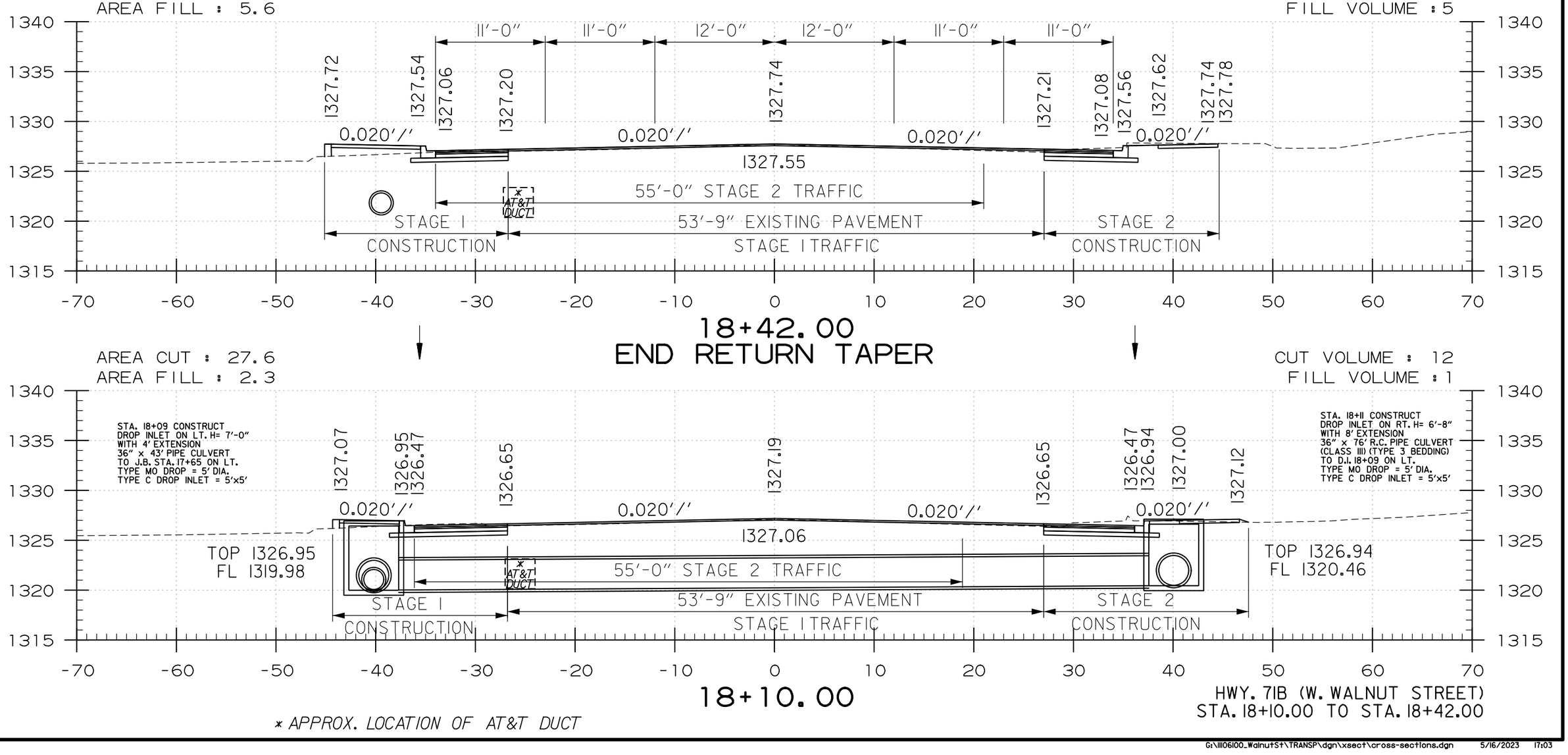
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	227	320
		CROSS SECTIONS				

STA. 17+80 TO STA. 18+42 ON LT. CONSTRUCT
SIDEWALK (TYPE SPECIAL)
TURNED DOWN WALL H=3'-0" MAX.
WITH 62 LIN. FT. HAND RAILING



18+42.00
END RETURN TAPER

18+10.00

HWY. 71B (W. WALNUT STREET)
STA. 18+10.00 TO STA. 18+42.00

** APPROX. LOCATION OF AT&T DUCT*

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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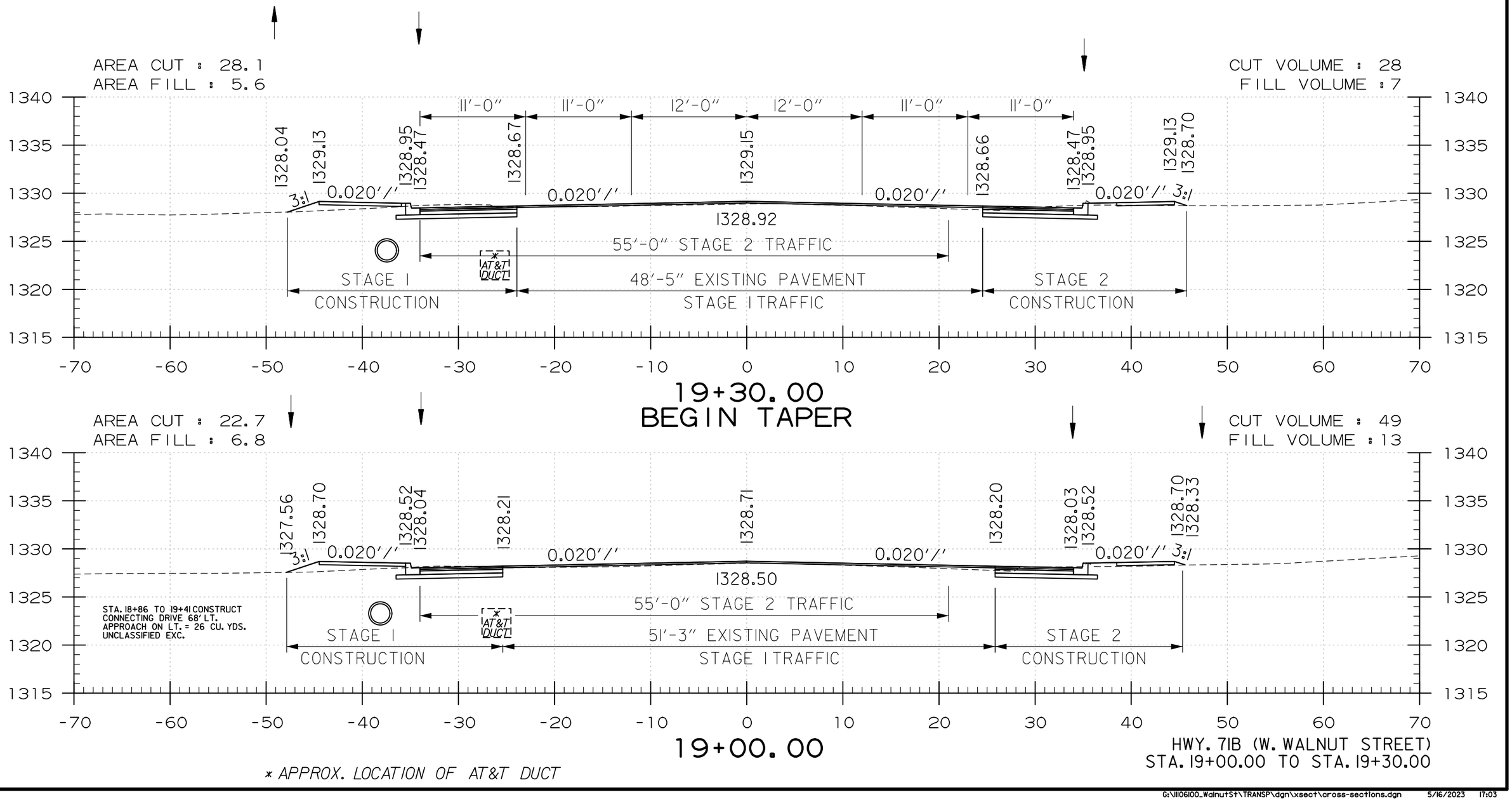
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	228	320
		CROSS SECTIONS				

STA. 19+56 CONSTRUCT
APPROACH ON LT. = 20 CU. YDS.



19+30.00
BEGIN TAPER

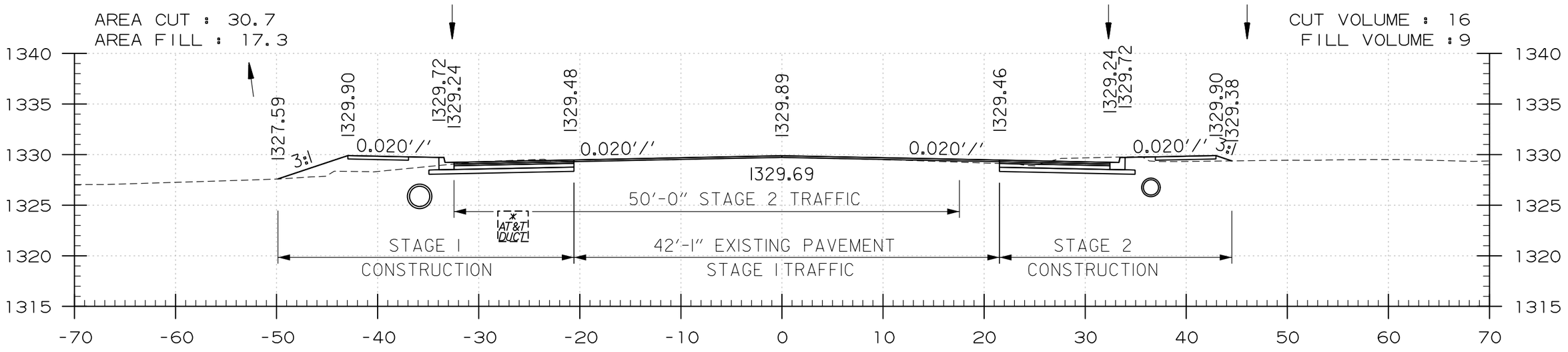
19+00.00

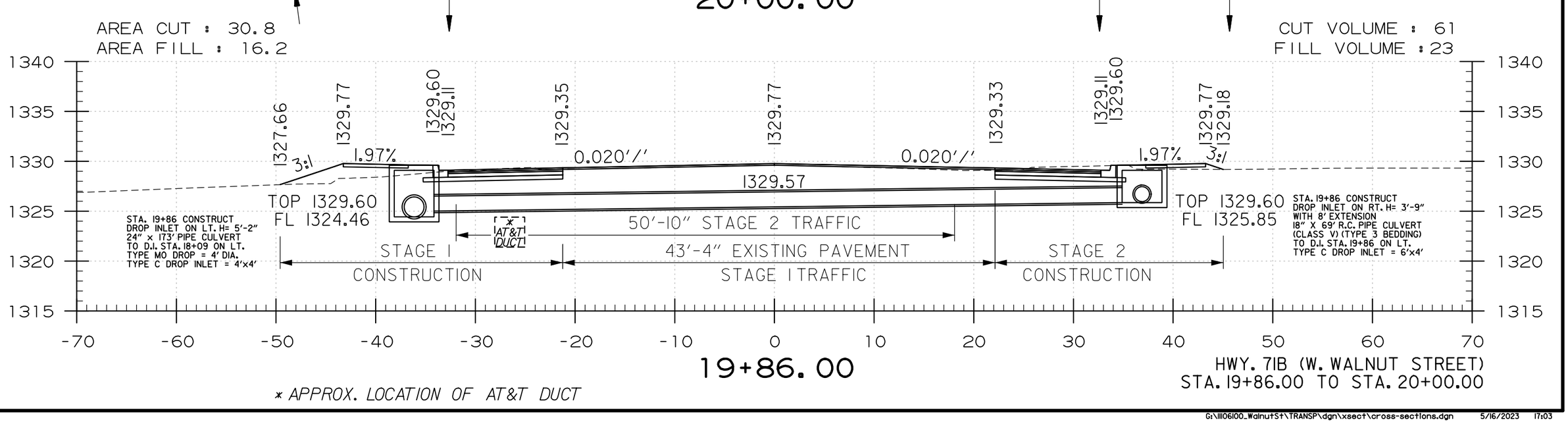
HWY. 71B (W. WALNUT STREET)
STA. 19+00.00 TO STA. 19+30.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	229	320
		CROSS SECTIONS				





* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 19+86.00 TO STA. 20+00.00

USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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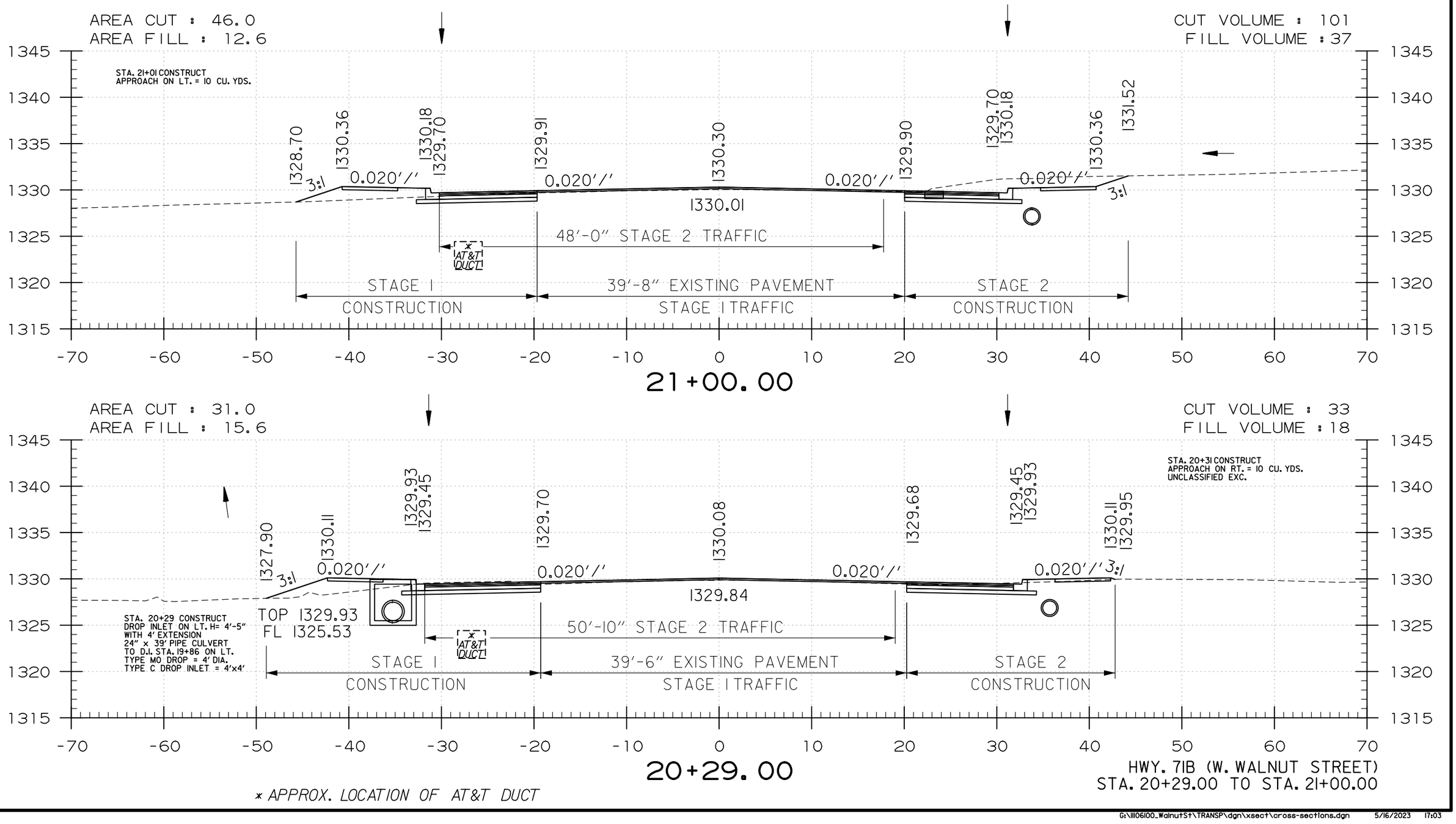
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	230	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 20+29.00 TO STA. 21+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
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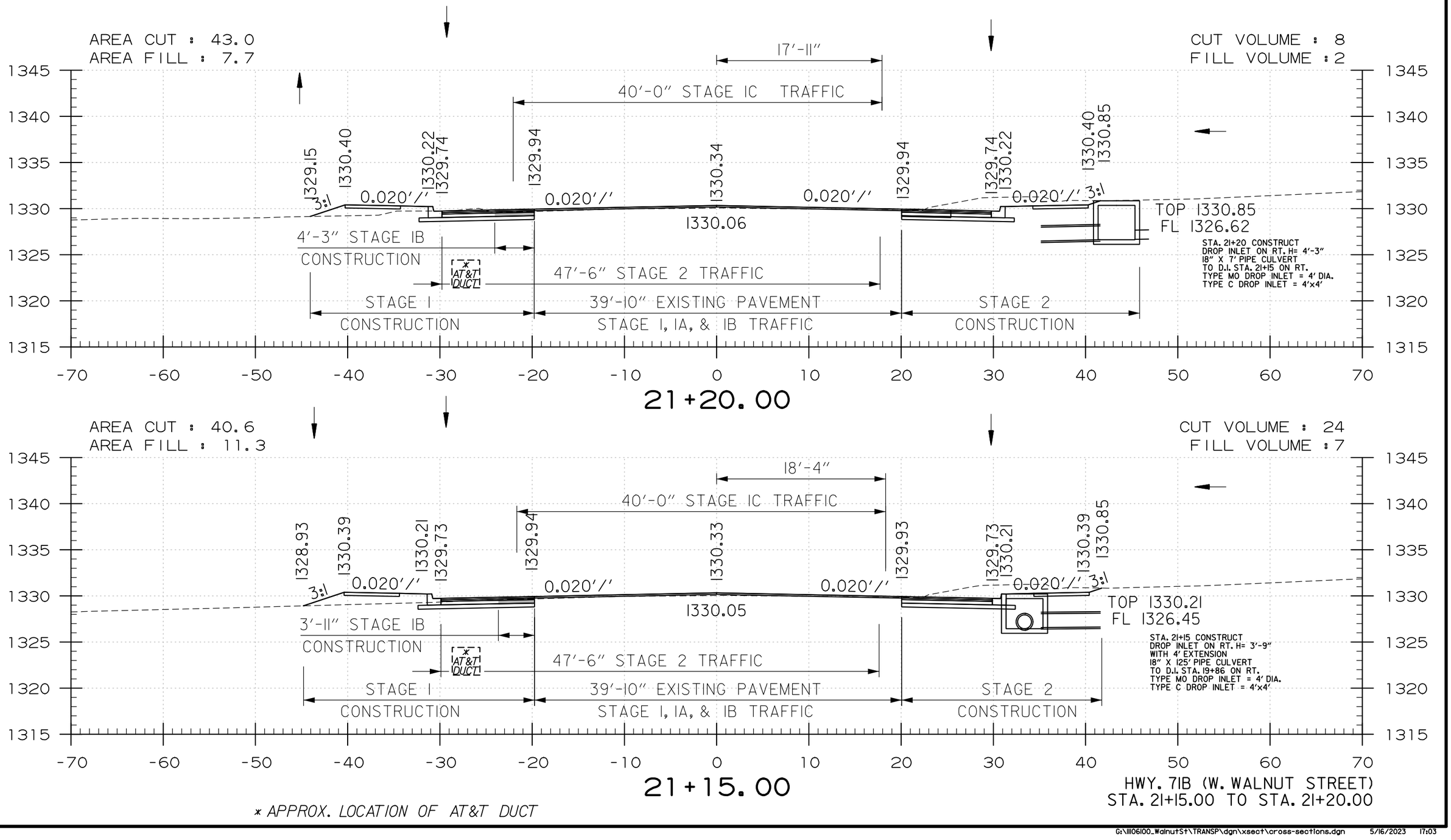
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	231	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

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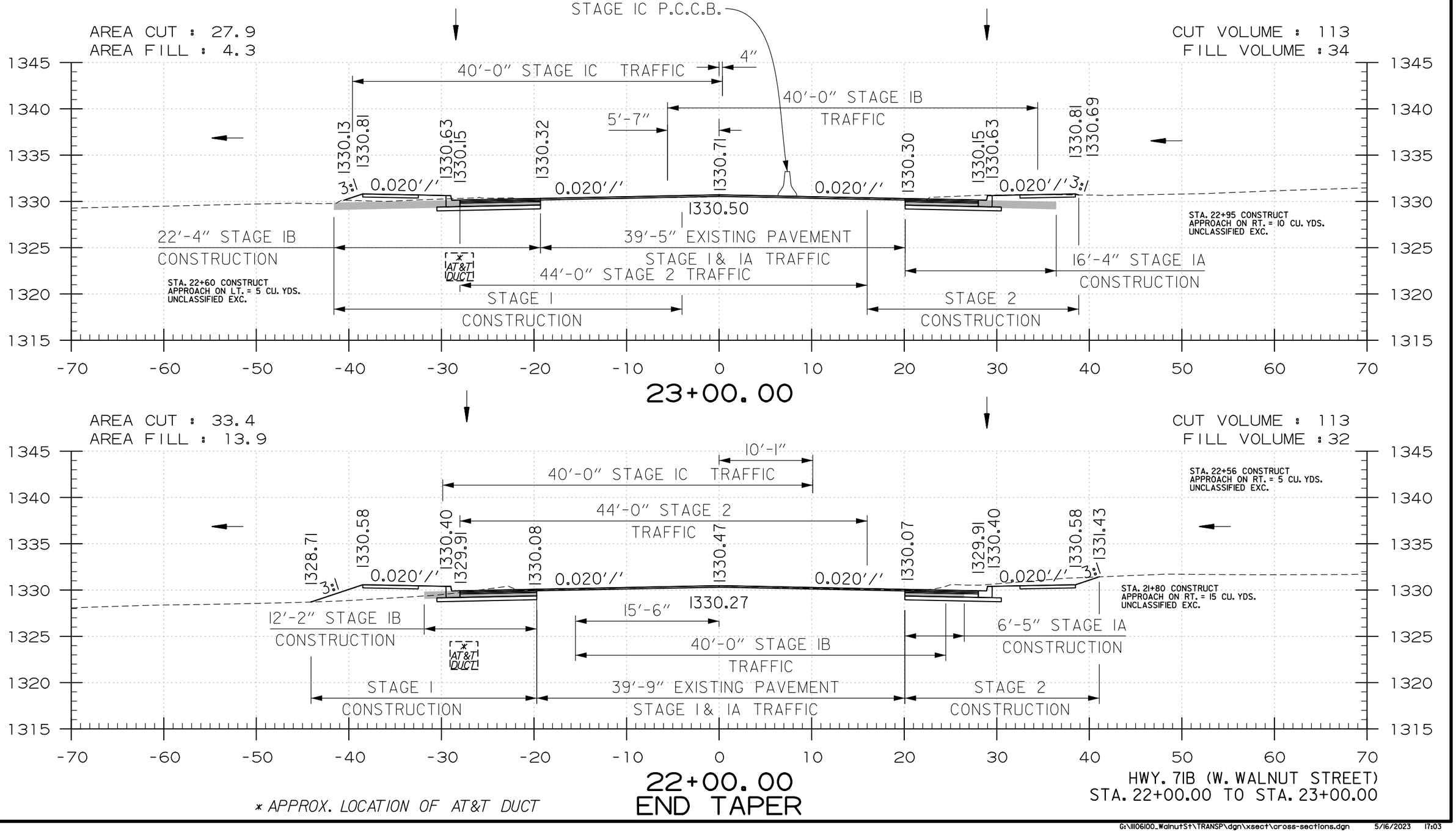
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	232	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 22+00.00 TO STA. 23+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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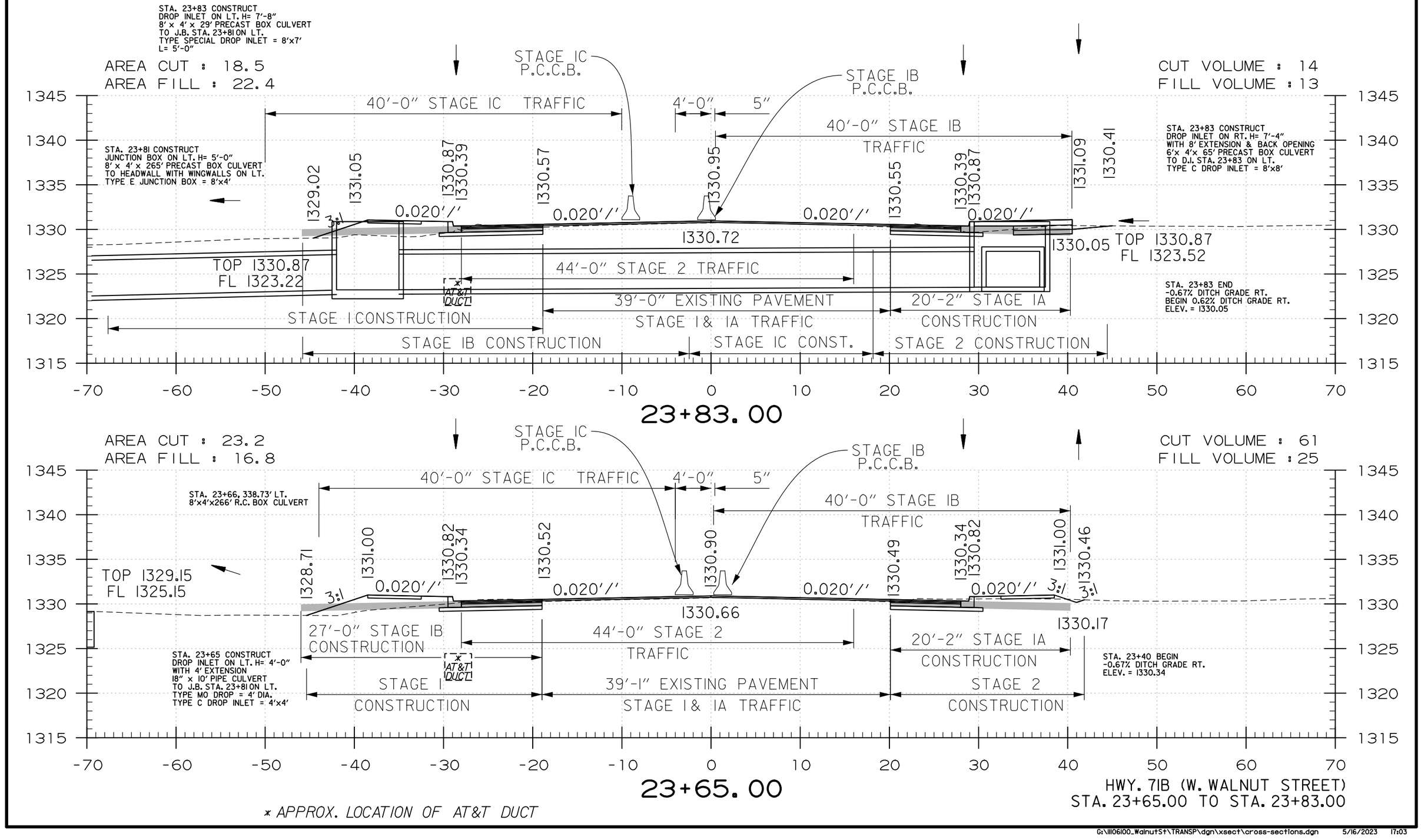
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	233	320
		CROSS SECTIONS				



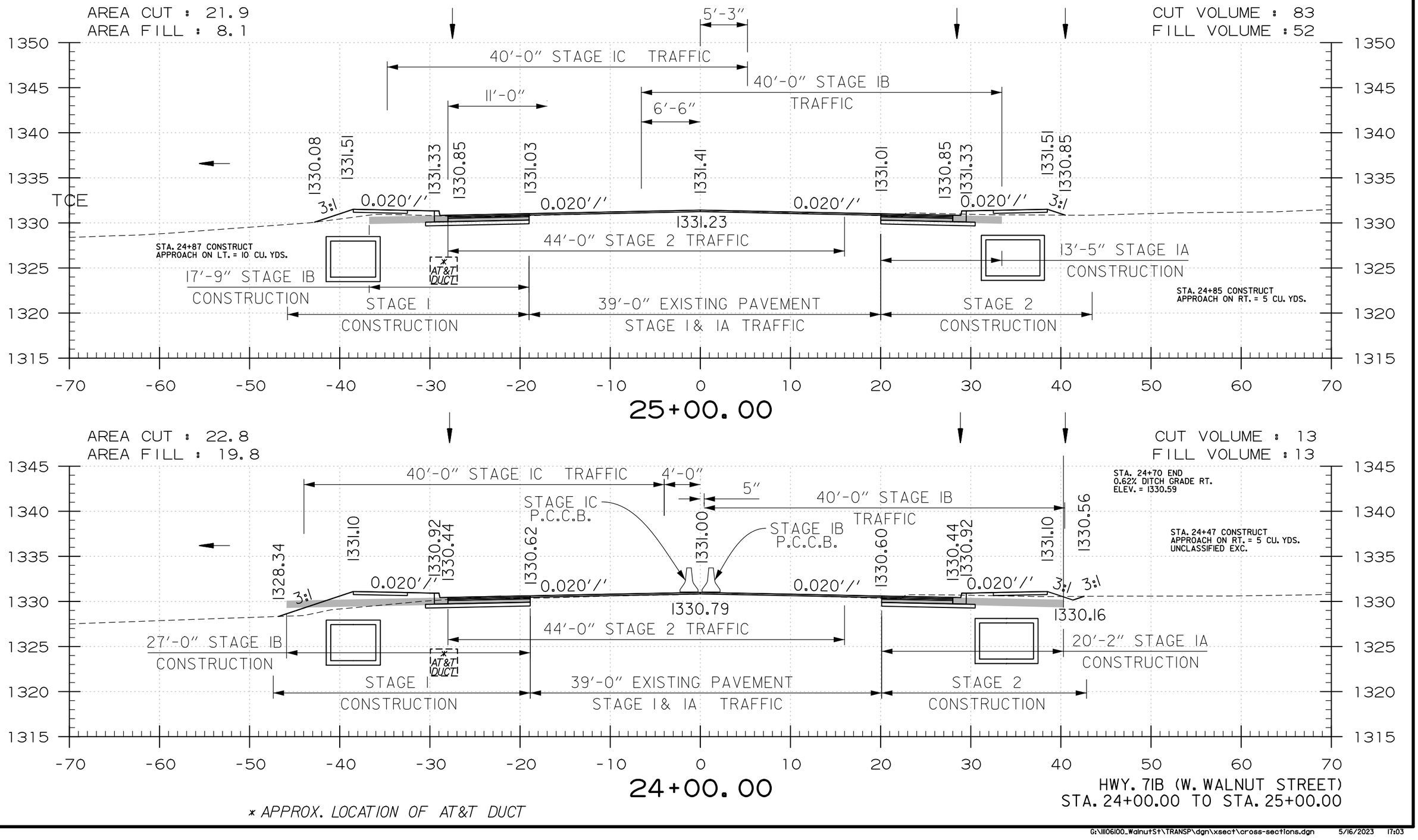
* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 23+65.00 TO STA. 23+83.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	234	320
		CROSS SECTIONS				



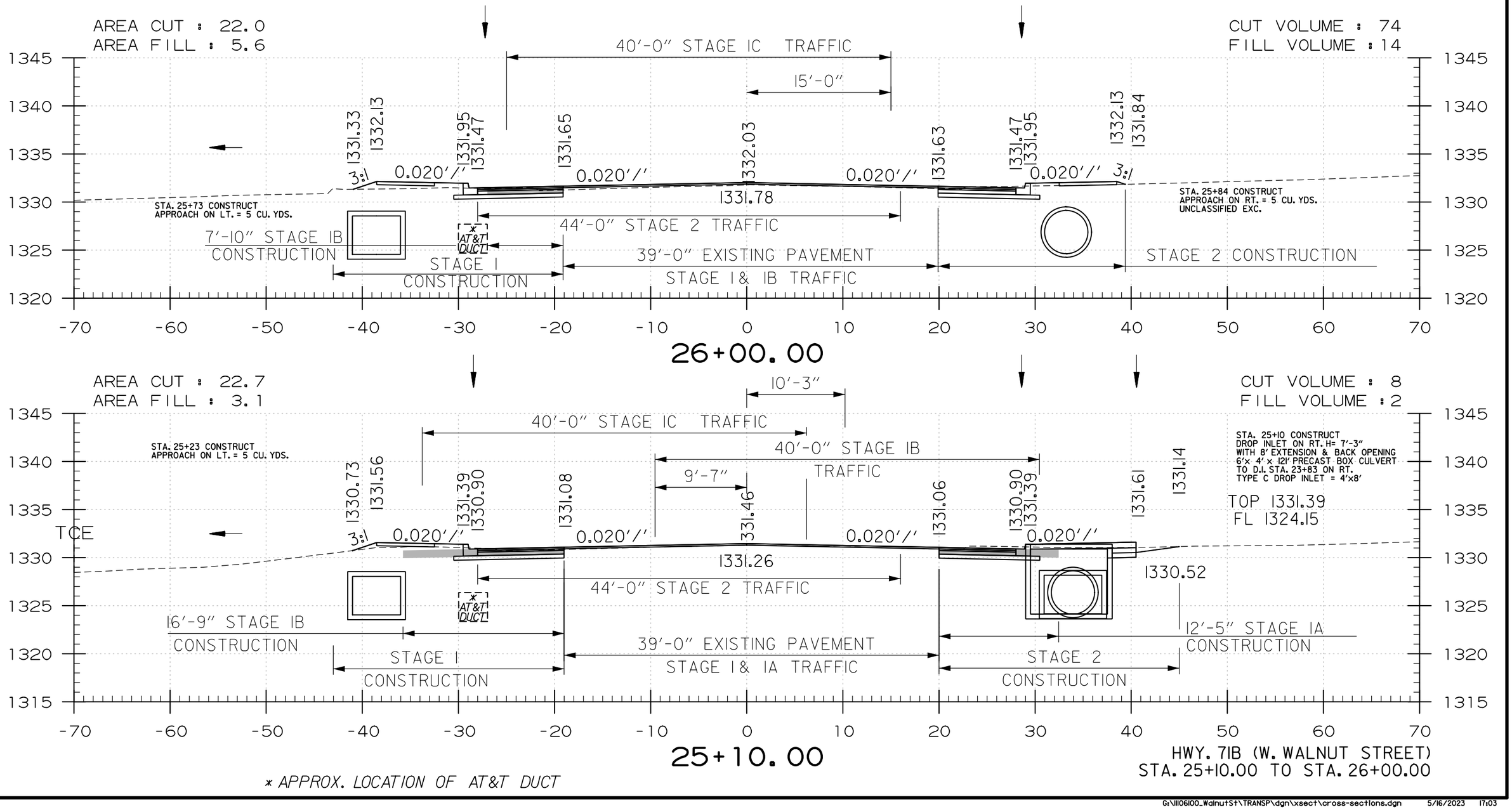
* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 24+00.00 TO STA. 25+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	235	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 25+10.00 TO STA. 26+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
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MODEL: CROSS SECTIONS
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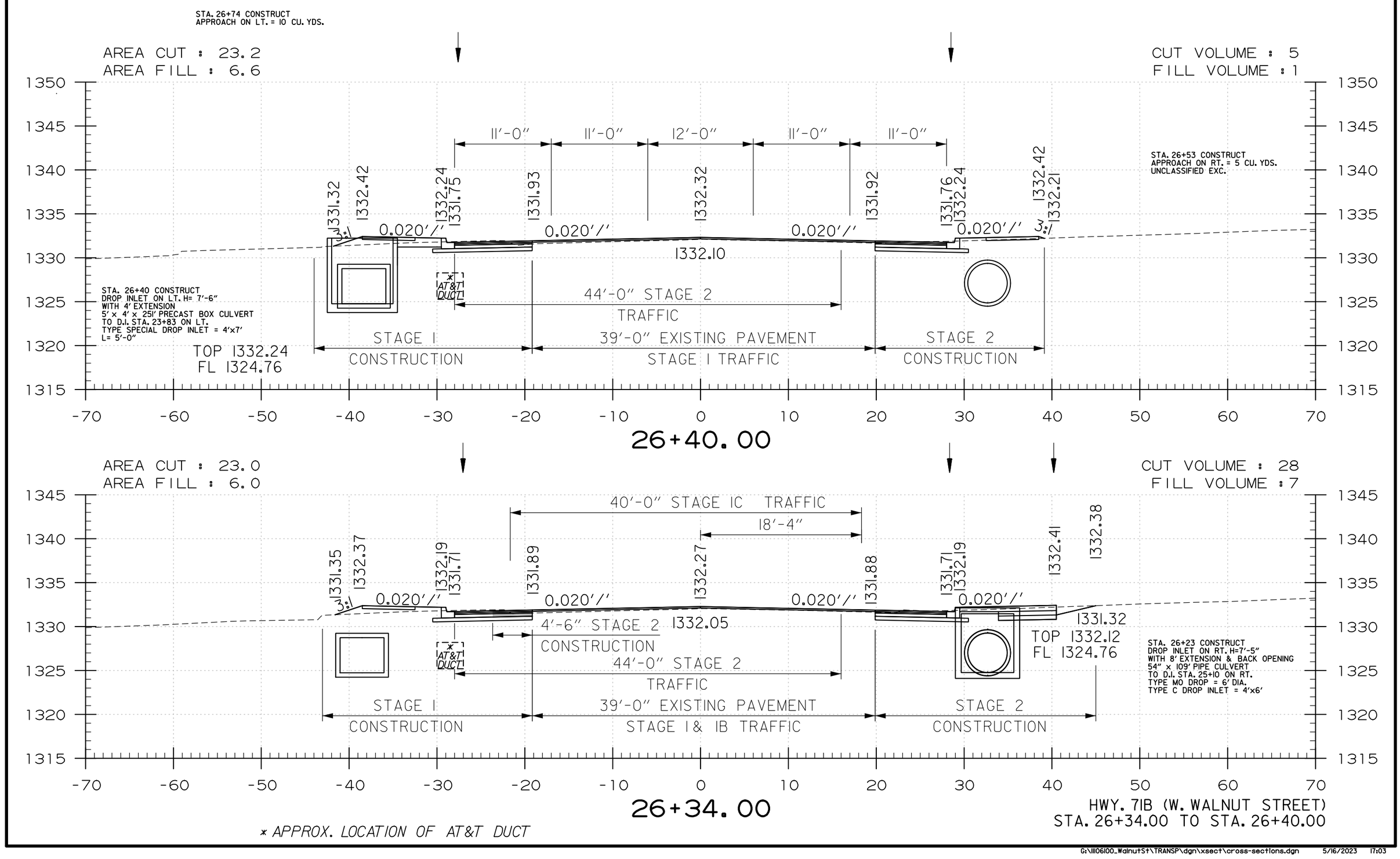
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	236	320
		CROSS SECTIONS				



USER: JJ5206
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SCALE: 1:10

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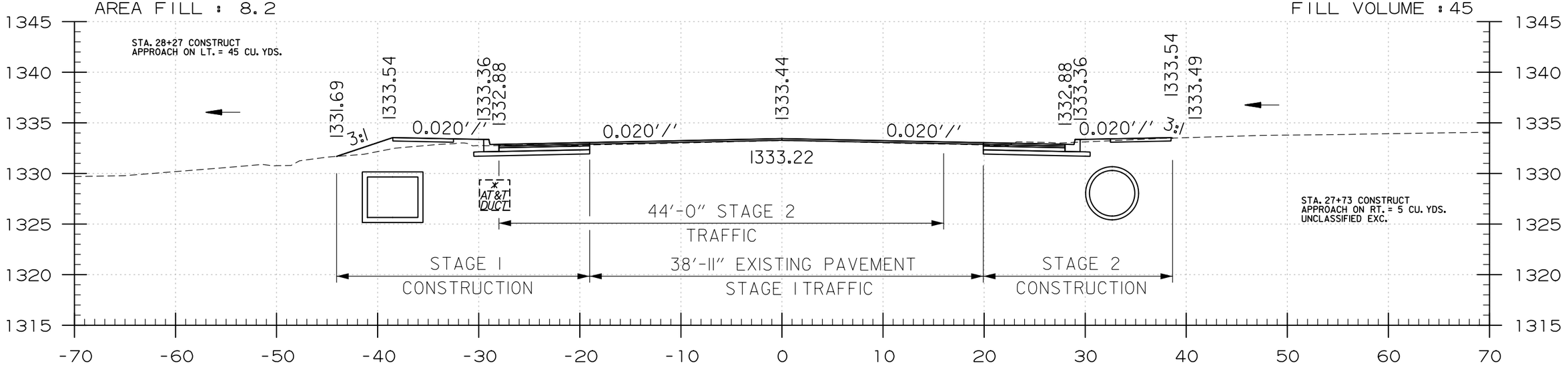
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	237	320
		CROSS SECTIONS				

AREA CUT : 23.4
AREA FILL : 8.2

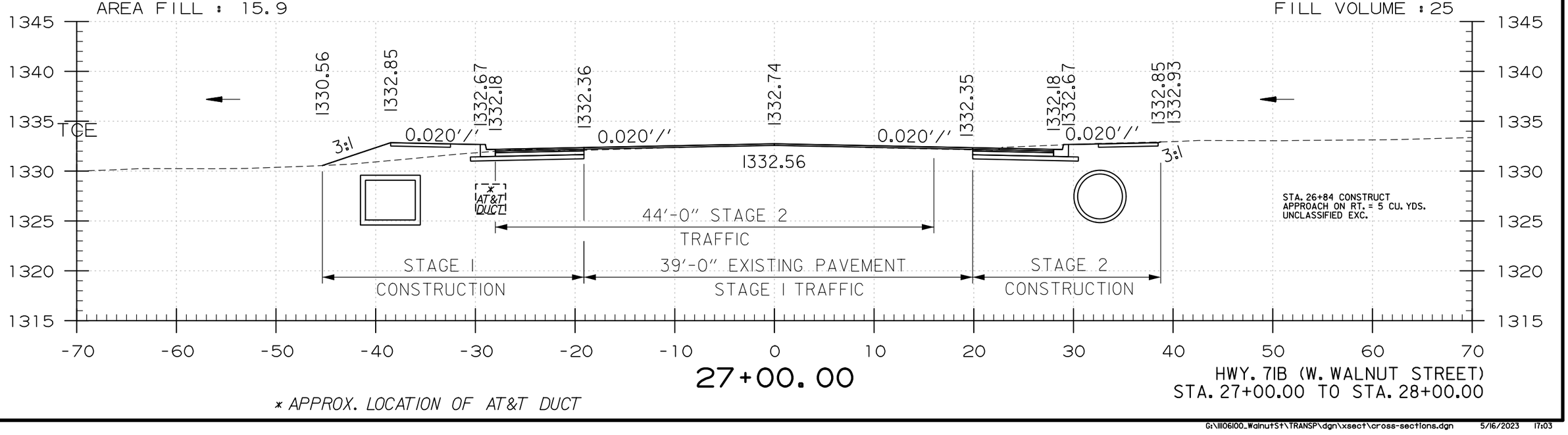
CUT VOLUME : 90
FILL VOLUME : 45



28+00.00

AREA CUT : 25.4
AREA FILL : 15.9

CUT VOLUME : 54
FILL VOLUME : 25



27+00.00

HWY. 71B (W. WALNUT STREET)
STA. 27+00.00 TO STA. 28+00.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1i0

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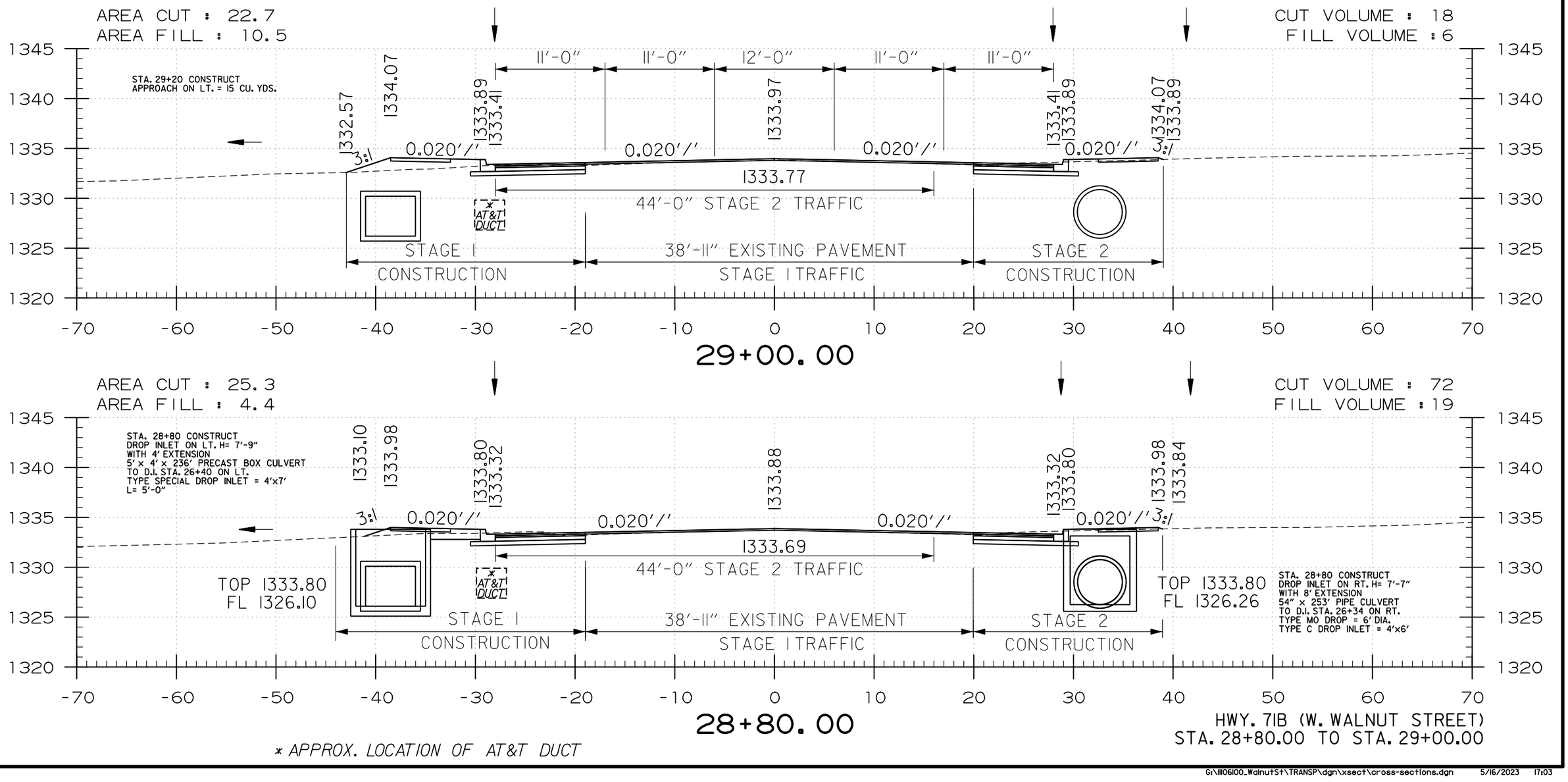
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	238	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 28+80.00 TO STA. 29+00.00

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
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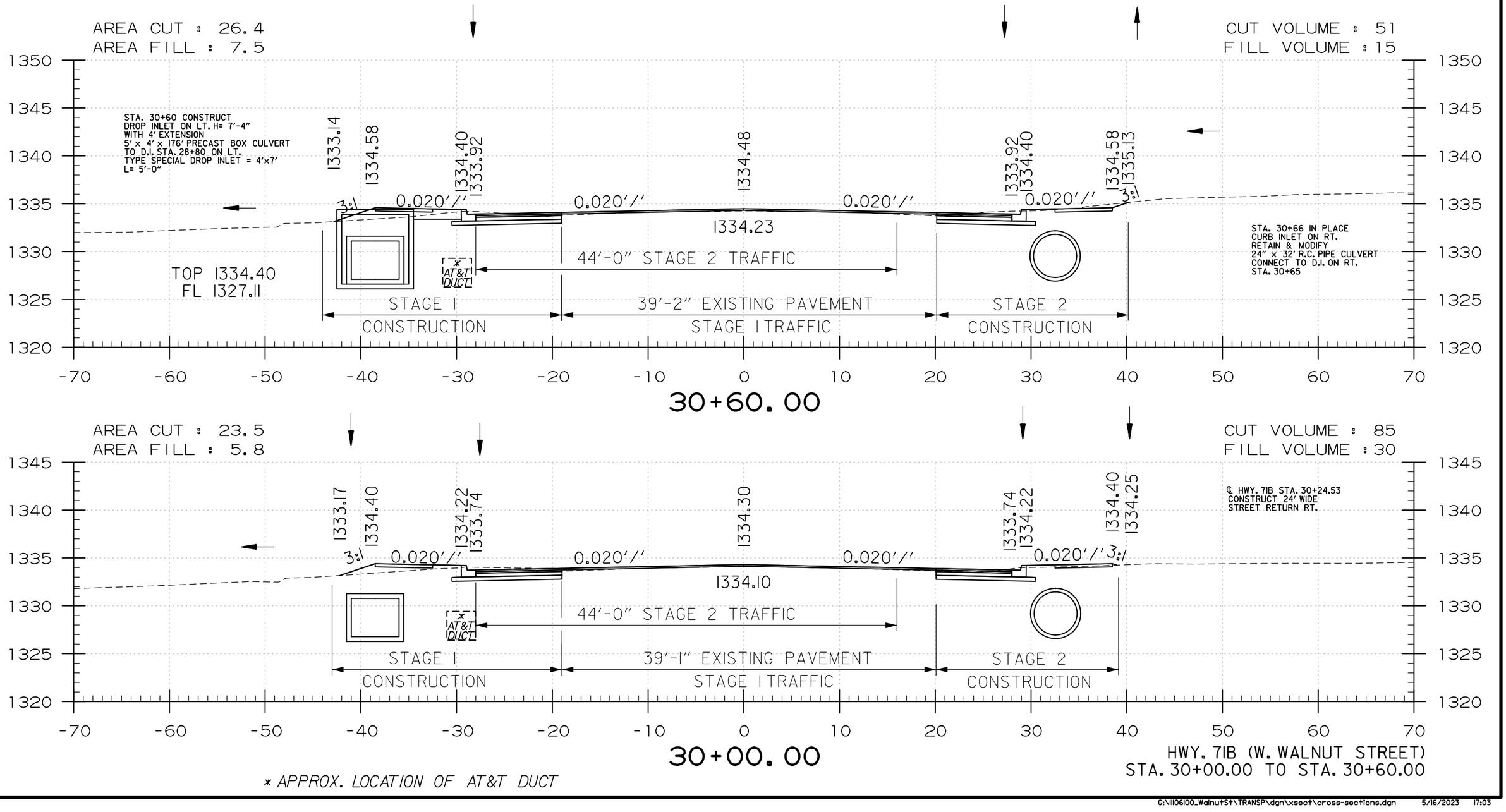
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	239	320
		CROSS SECTIONS				



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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	240	320
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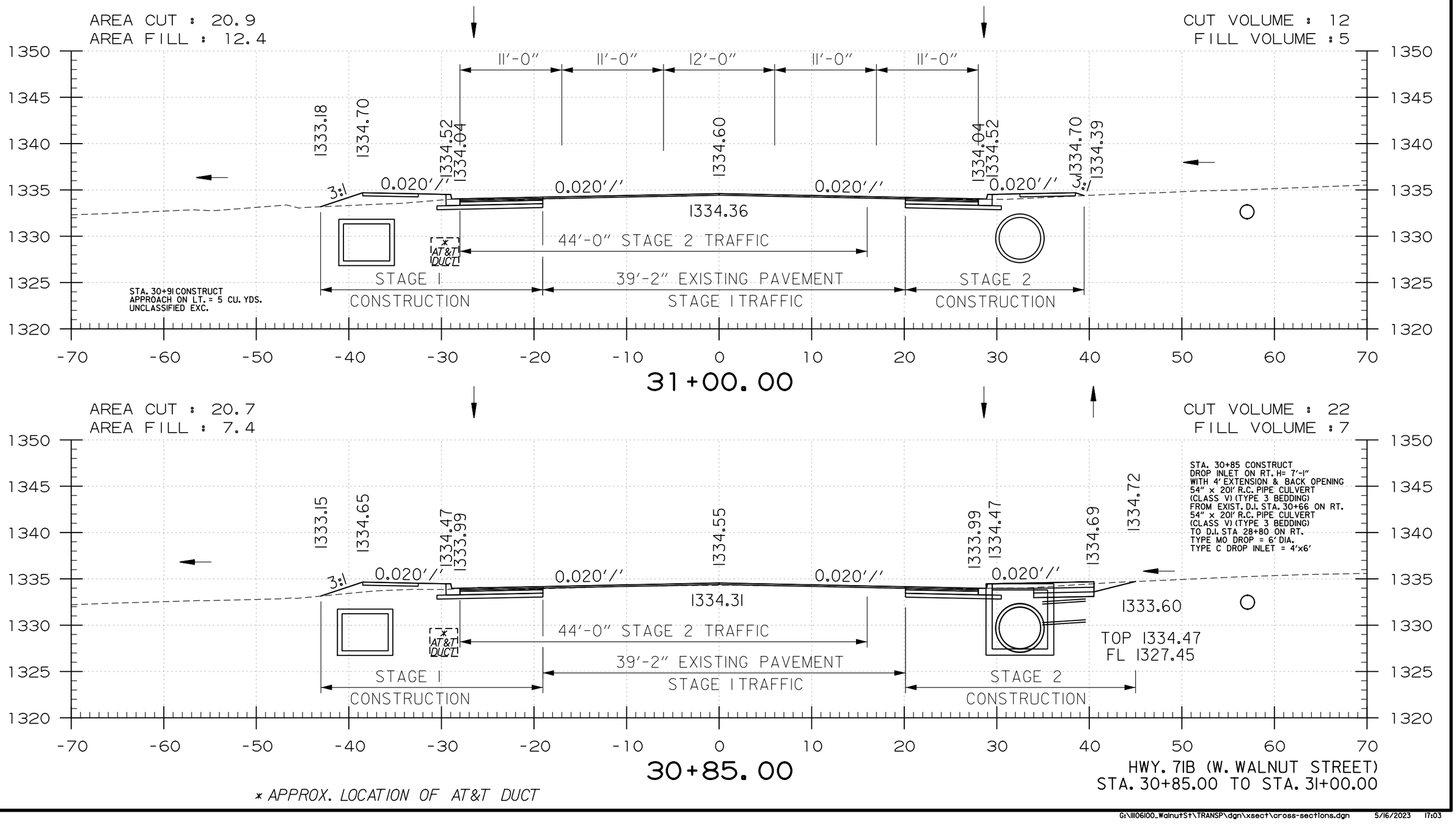

* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 30+85.00 TO STA. 31+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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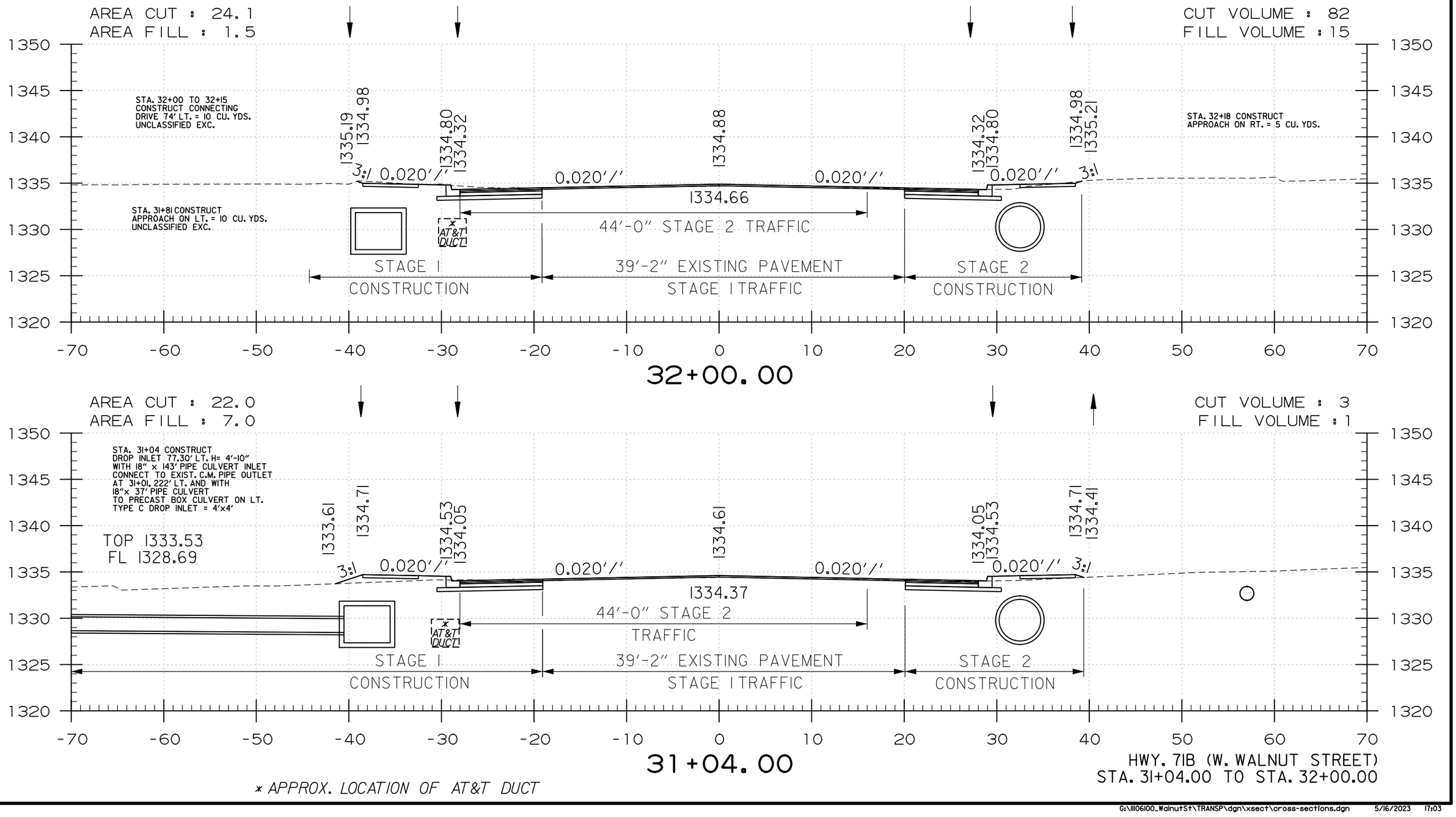
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	241	320
		CROSS SECTIONS				



USER: JJ5206
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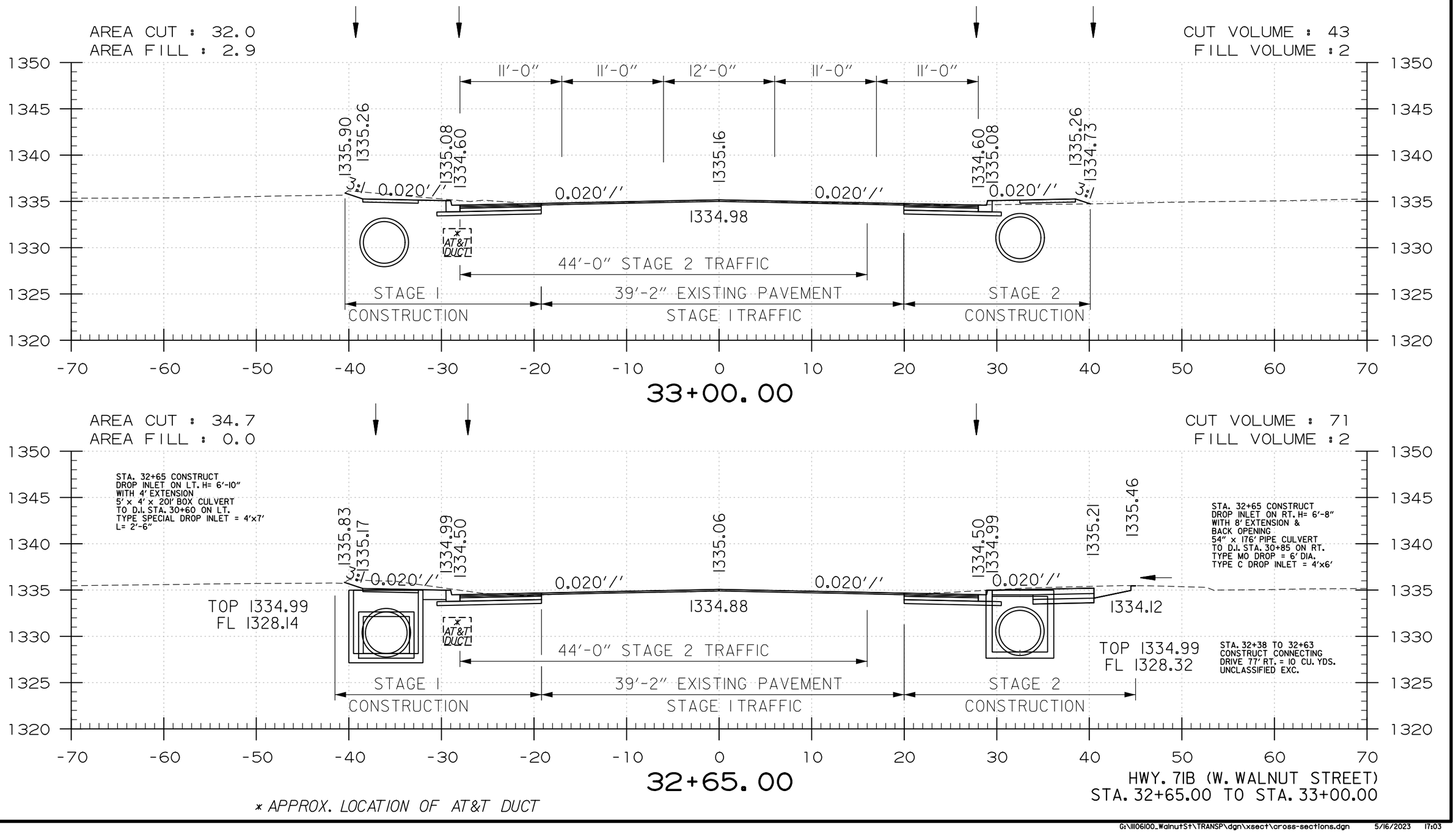
MODEL: CROSS SECTIONS
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	242	320
		CROSS SECTIONS				



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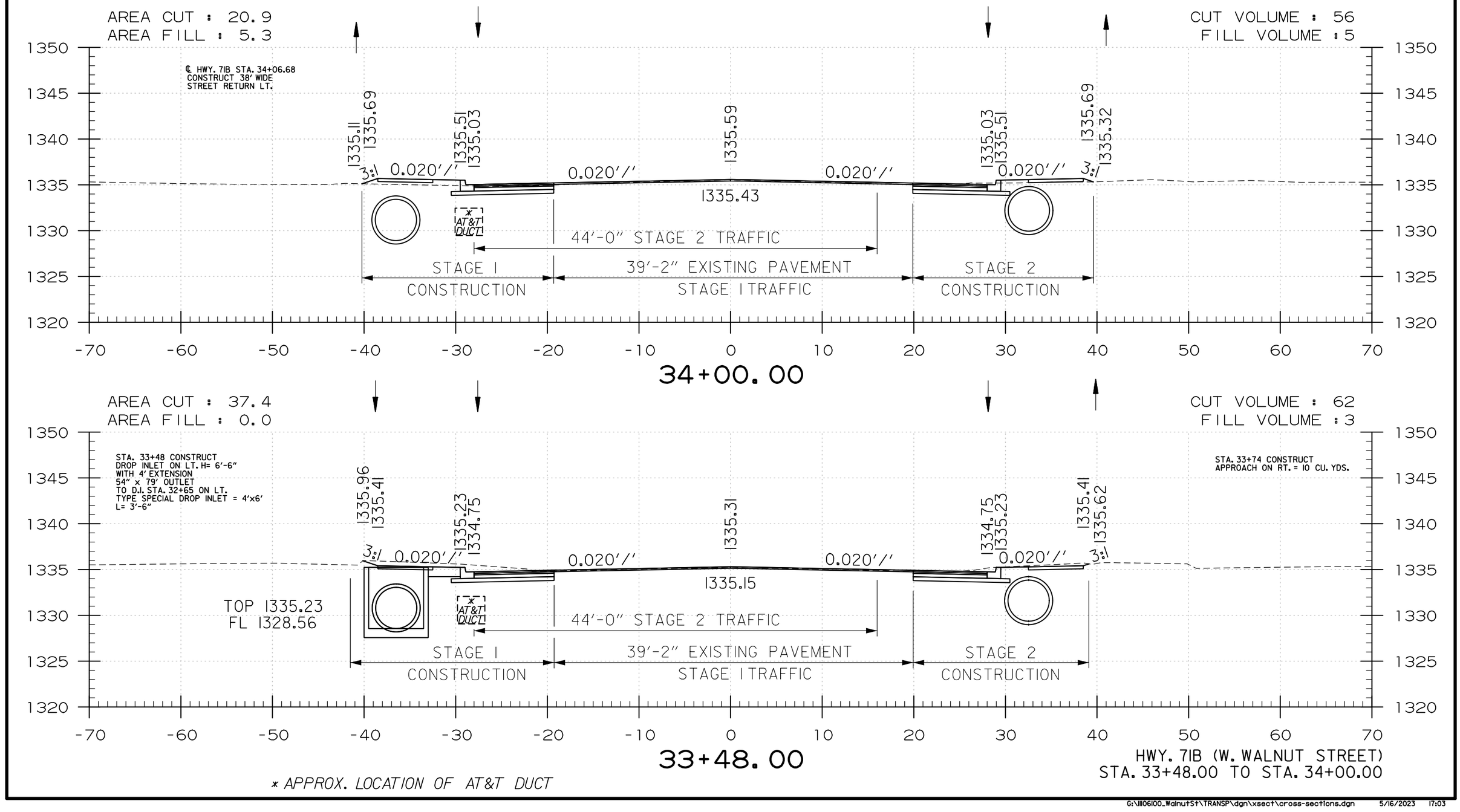
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	243	320
		CROSS SECTIONS				



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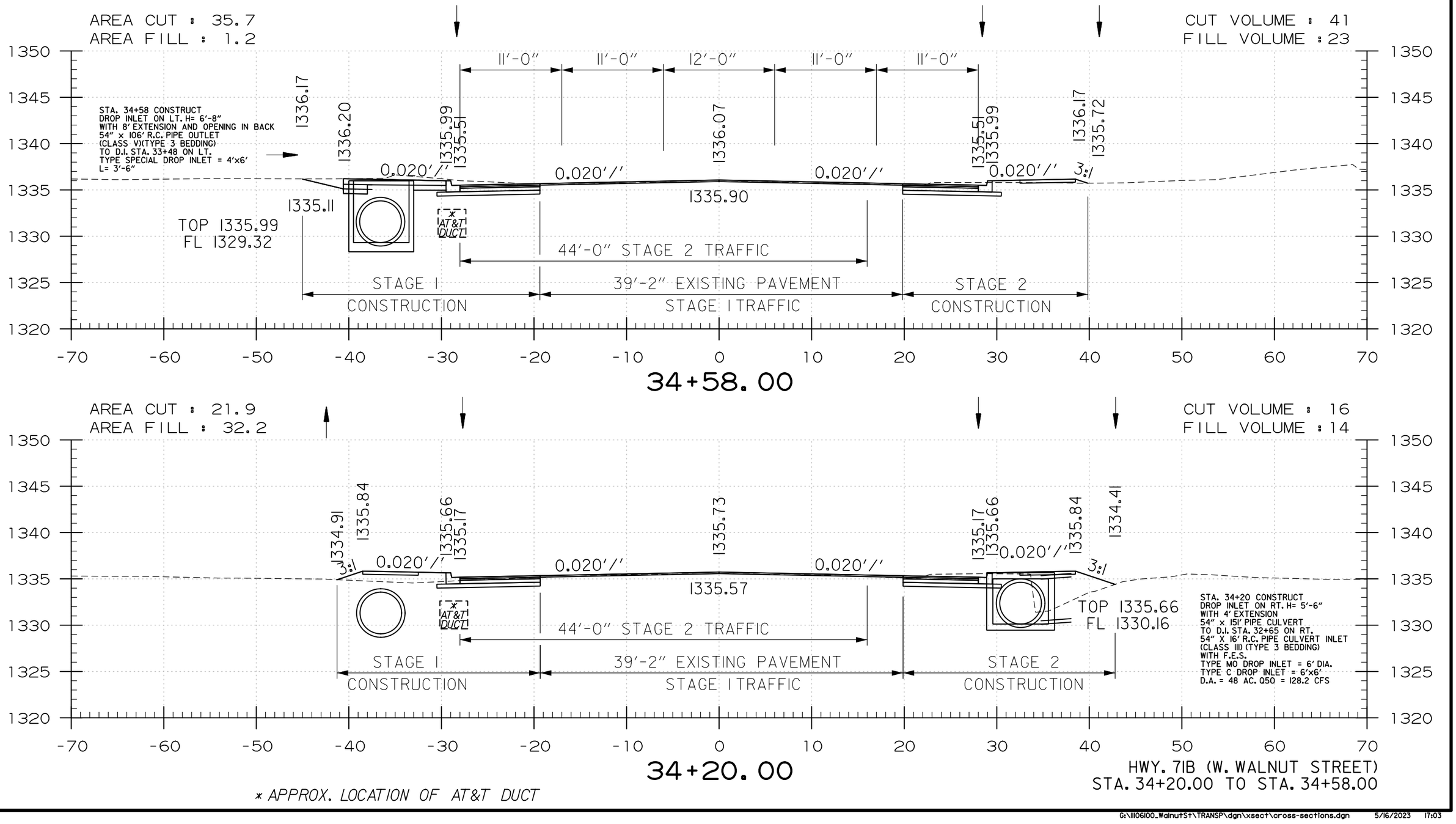
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	244	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 34+20.00 TO STA. 34+58.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
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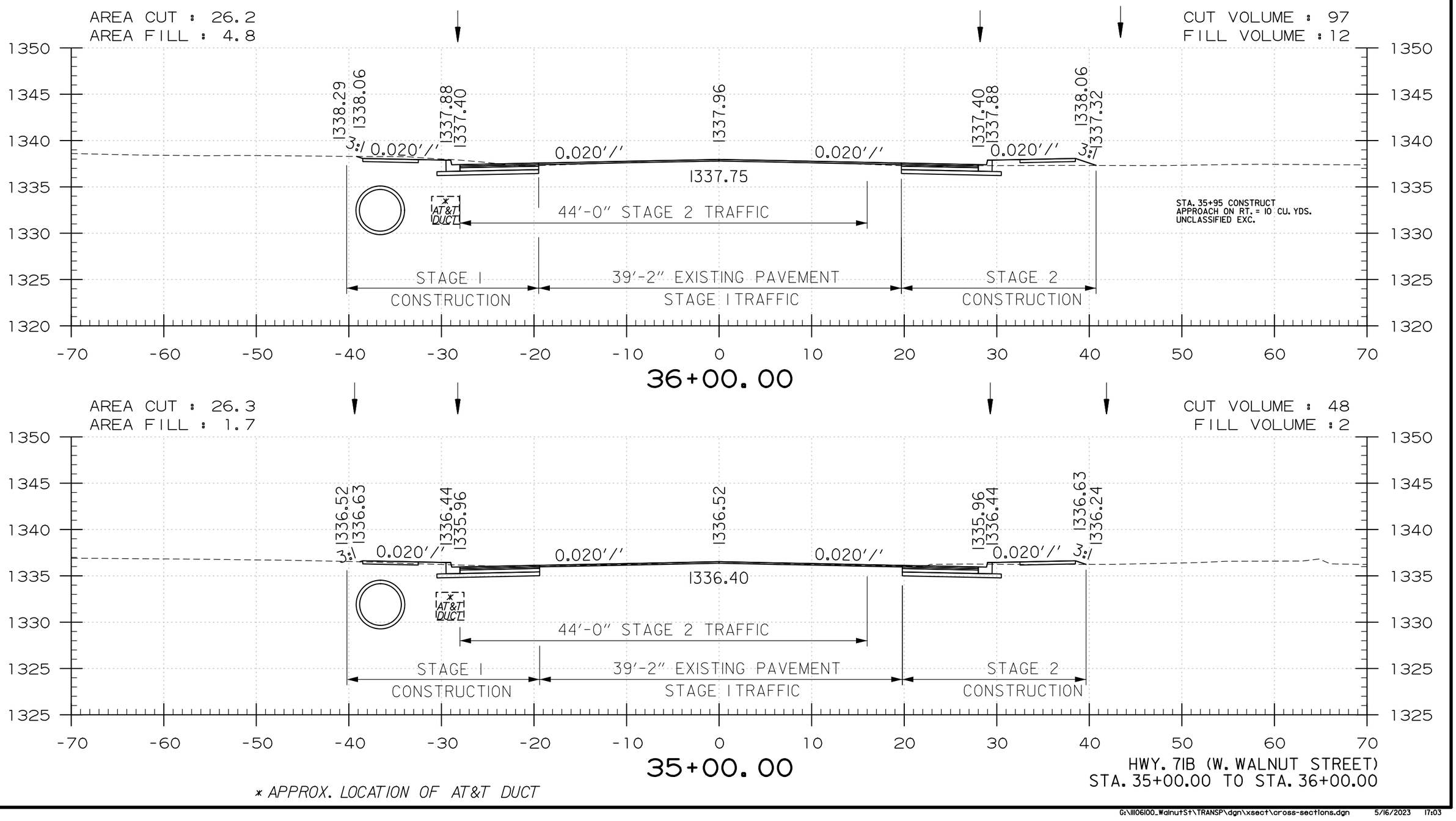
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	245	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
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PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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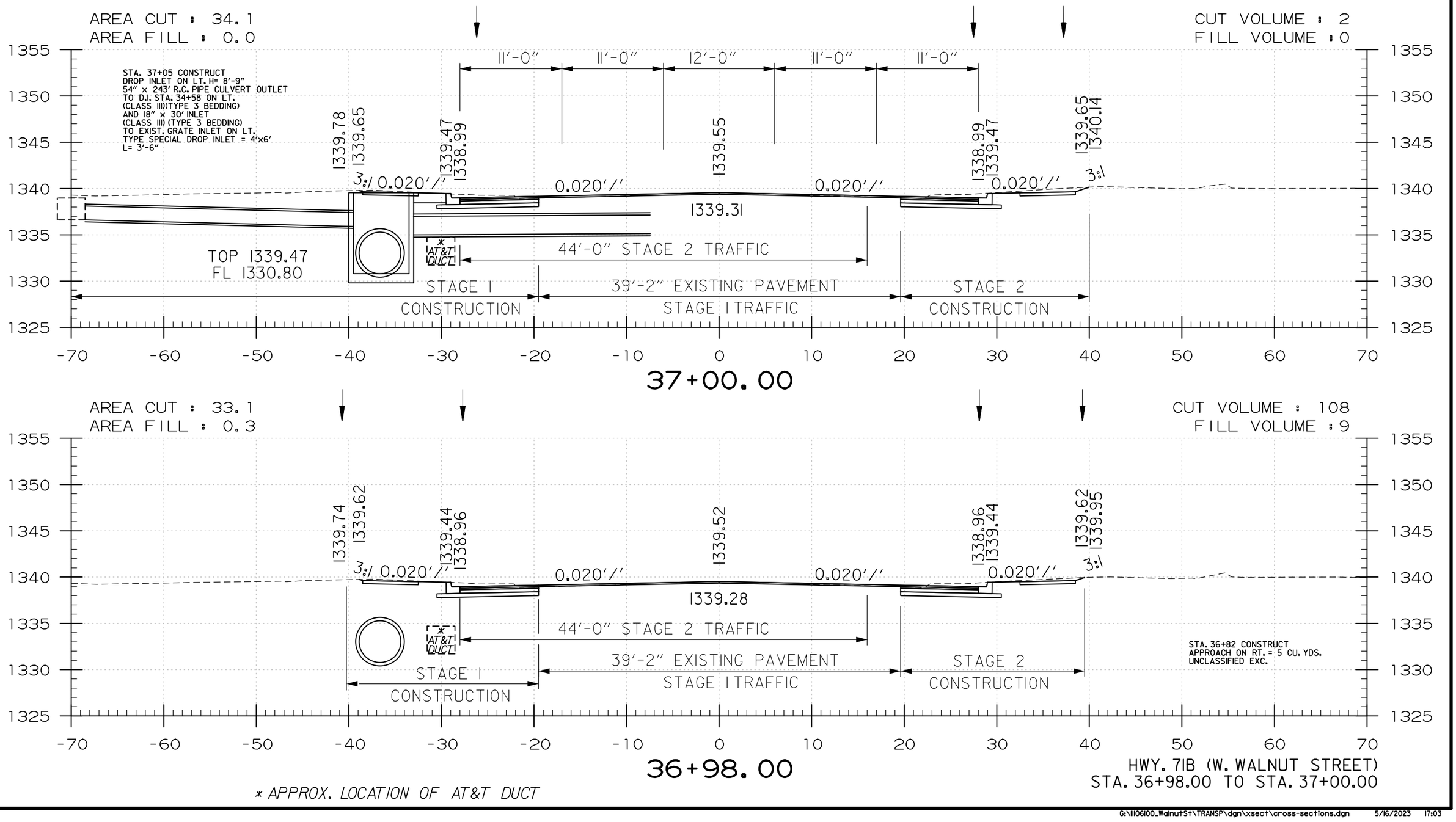
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	246	320
		CROSS SECTIONS				



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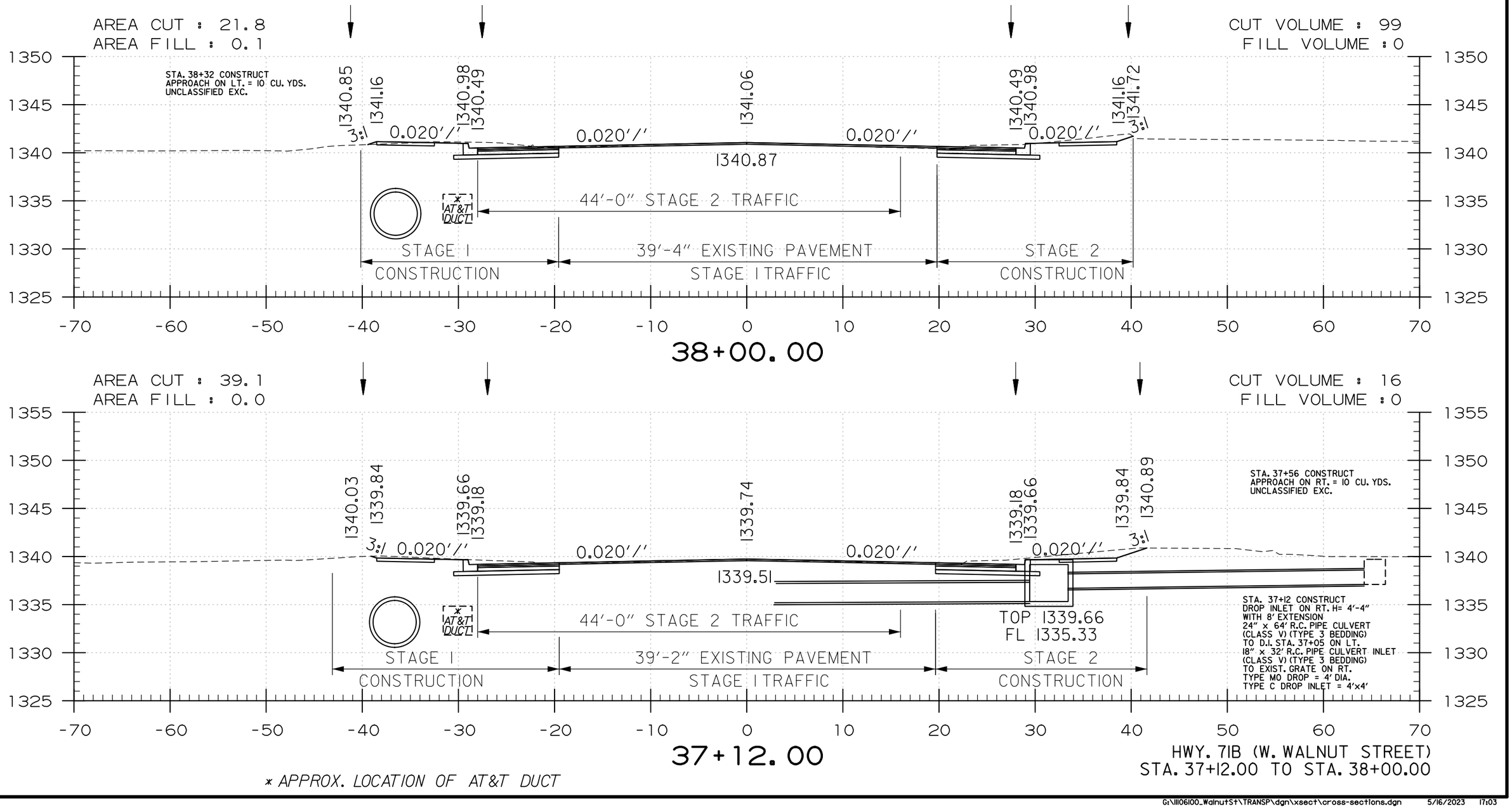
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	247	320
		CROSS SECTIONS				

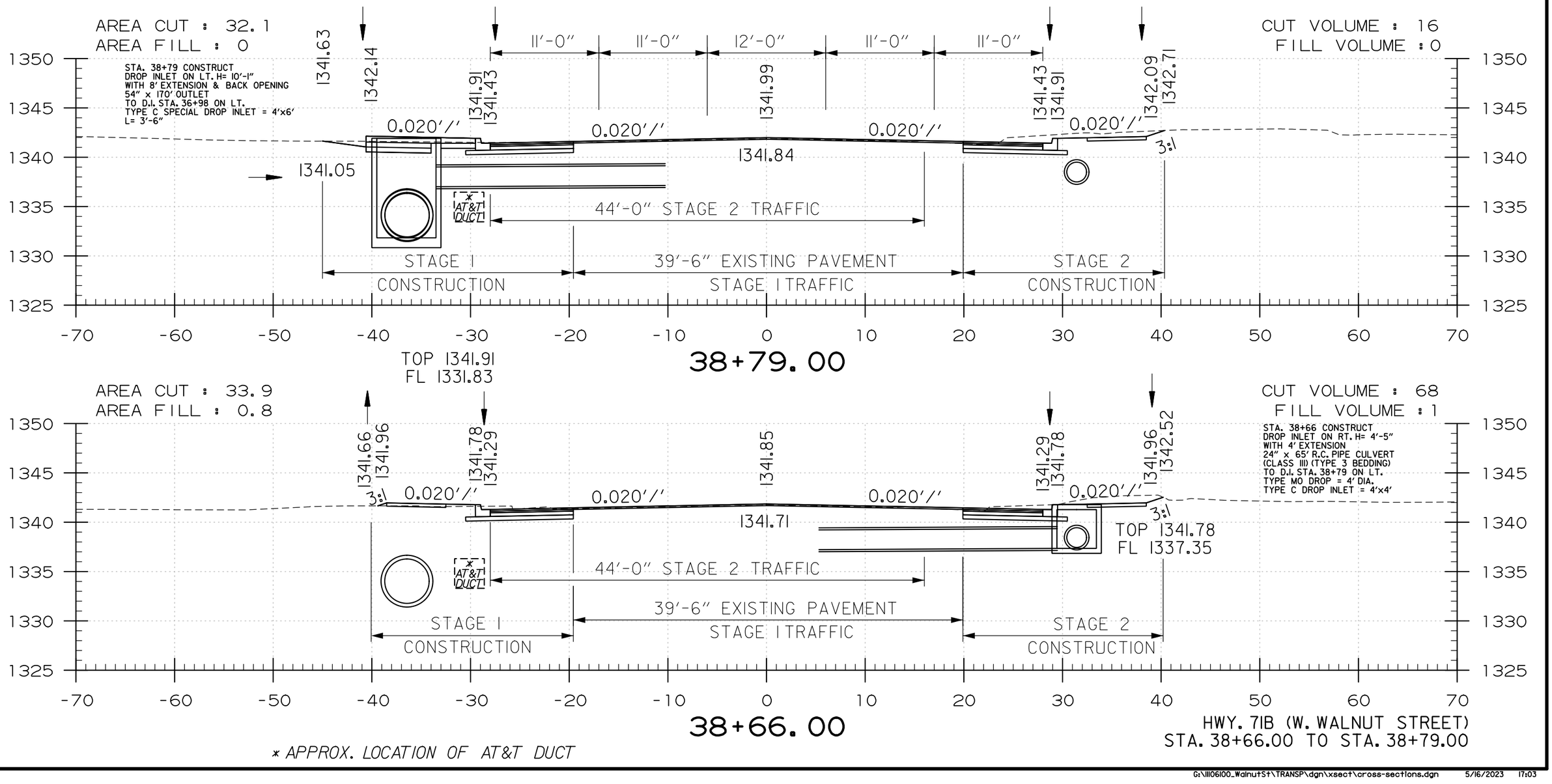


* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 37+12.00 TO STA. 38+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	248	320
		CROSS SECTIONS				



USER: JJ5206
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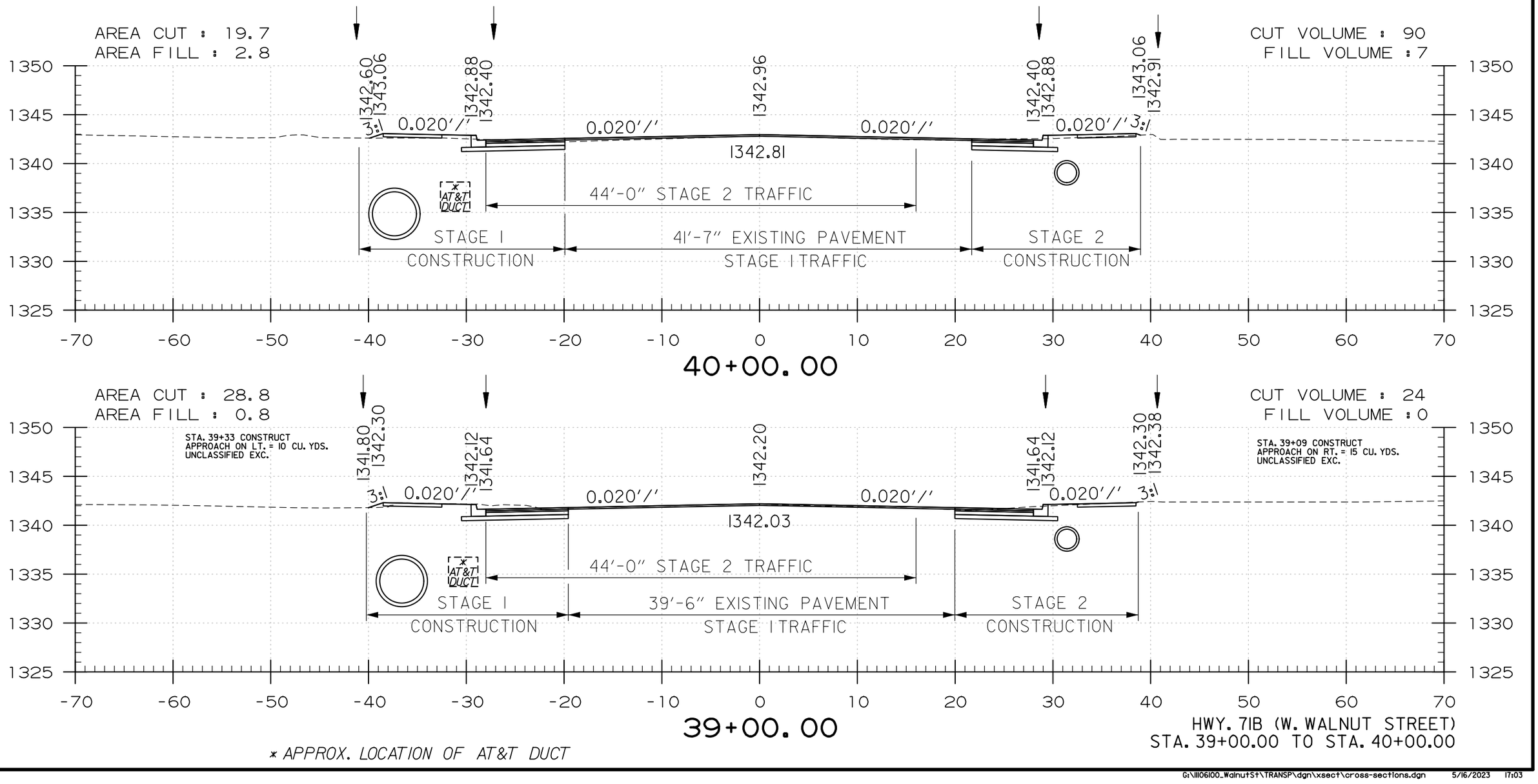
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

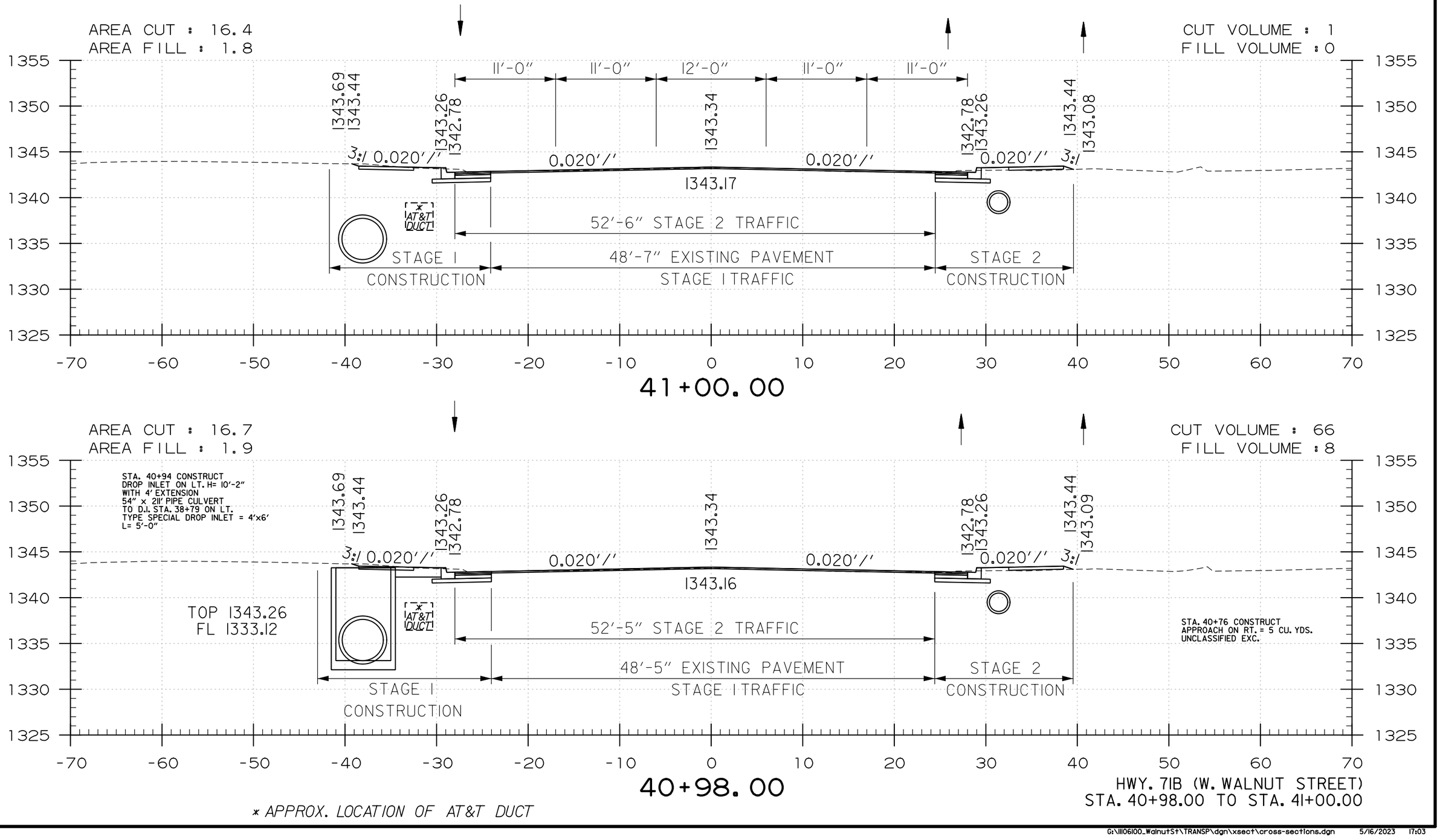
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	249	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	250	320
		CROSS SECTIONS				

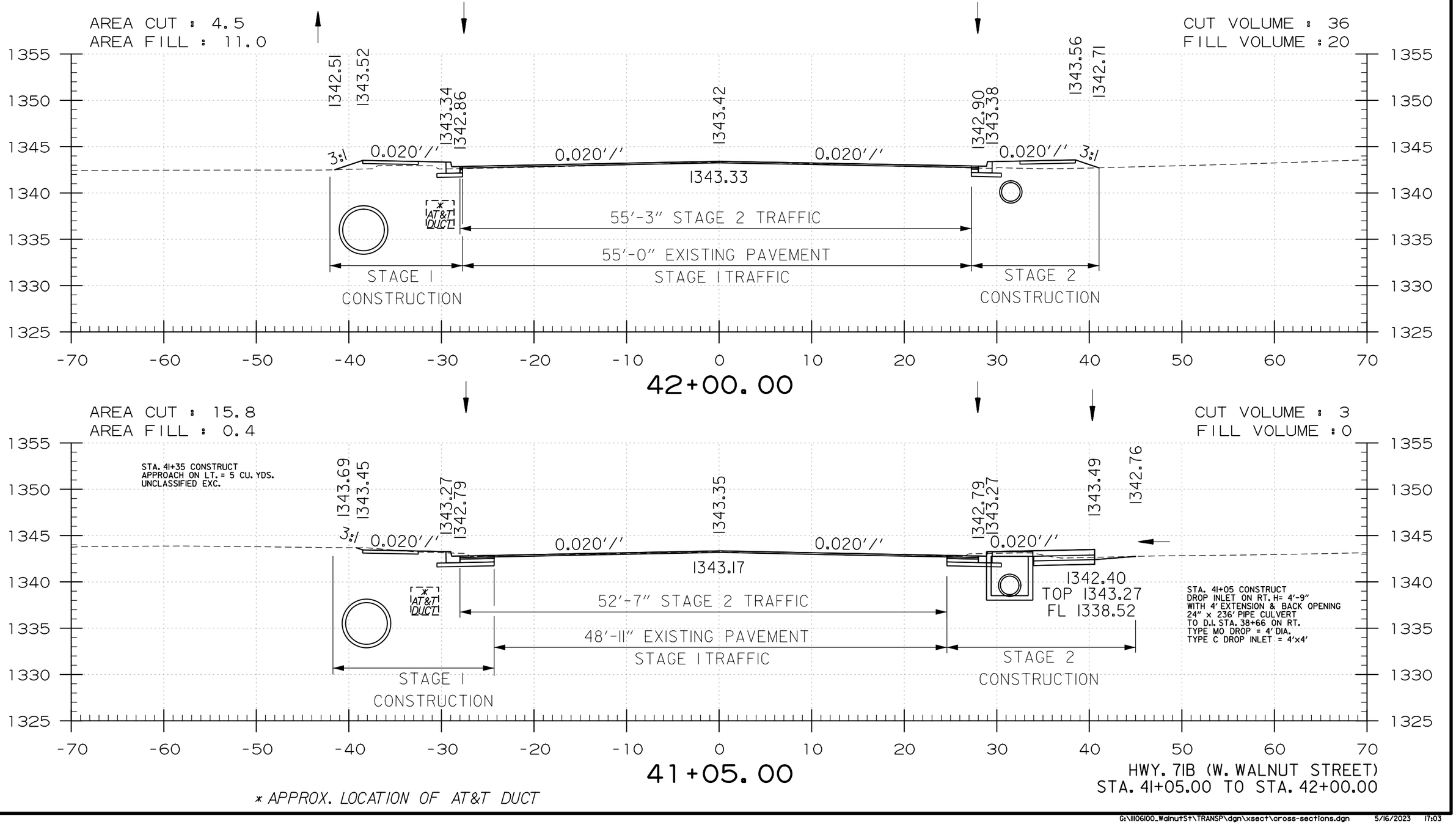


* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 40+98.00 TO STA. 41+00.00

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
SCALE: 1:10
MODEL: CROSS SECTIONS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	251	320
		CROSS SECTIONS				

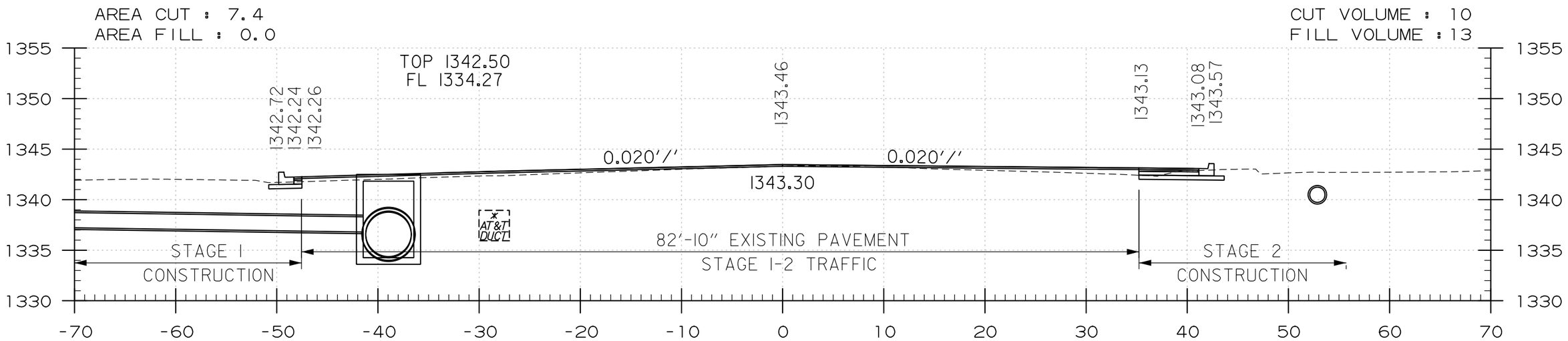


USER: JJ5206
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

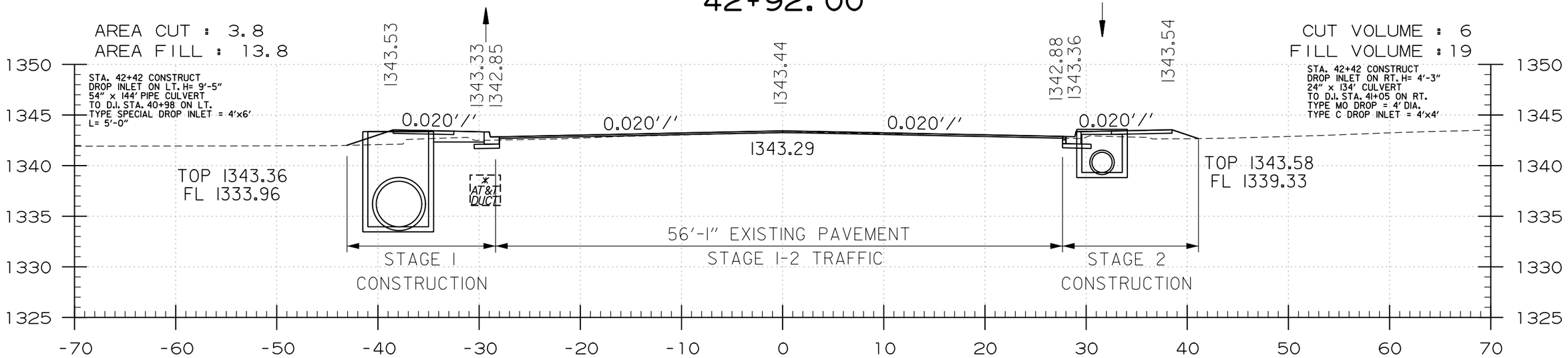
G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	252	320
		CROSS SECTIONS				

STA. 42+92 CONSTRUCT
JUNC. BOX ON LT. H= 8'-3"
54" x 47' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. STA. 42+42 ON LT.
TYPE ST JUNC. BOX. = 3'x6'



42+92.00



42+42.00

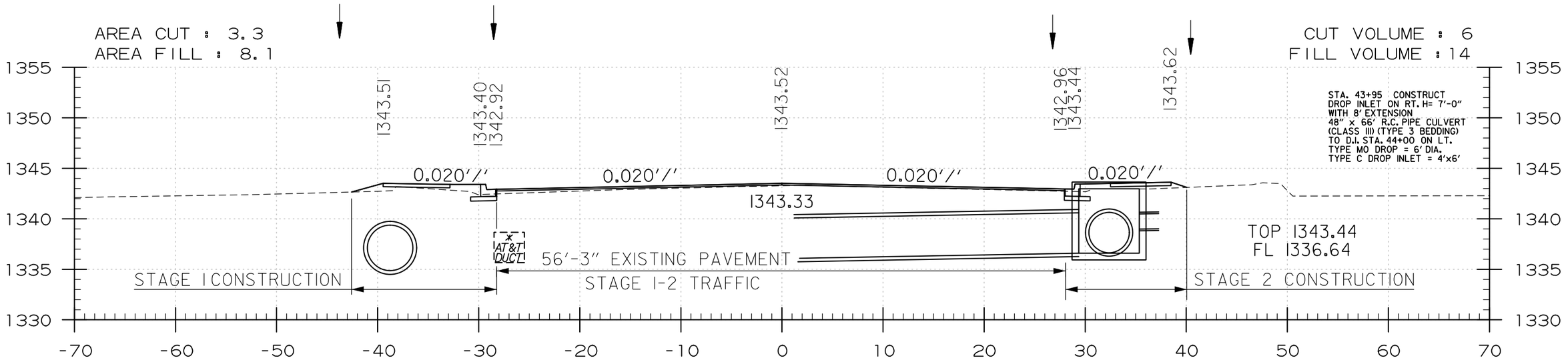
HWY. 71B (W. WALNUT STREET)
STA. 42+42.00 TO STA. 42+92.00

* APPROX. LOCATION OF AT&T DUCT

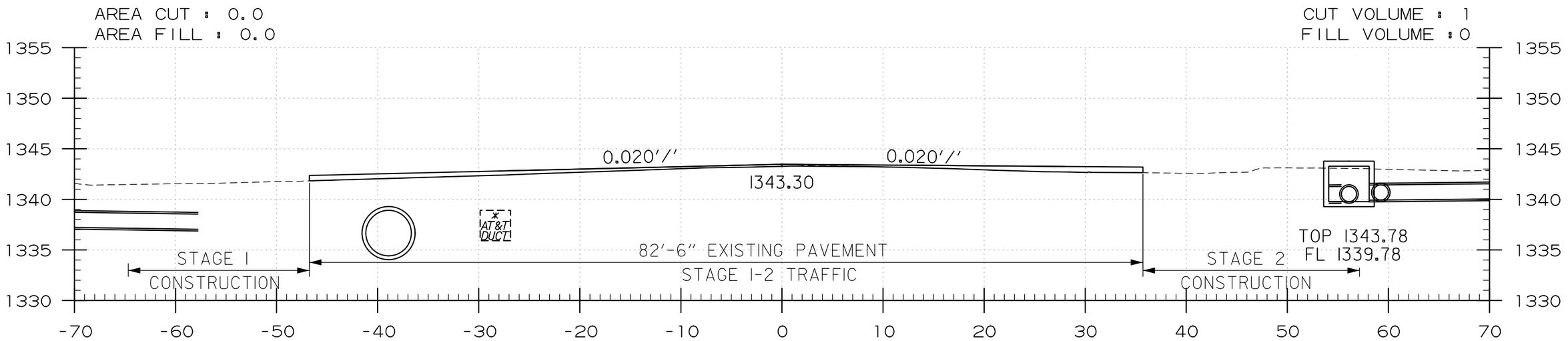
USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	253	320
		CROSS SECTIONS				

℄ HWY. 71B STA. 43+64 TO 45+11RT.
DO NOT DISTURB EXIST. WALL



43+95.00



43+00.00

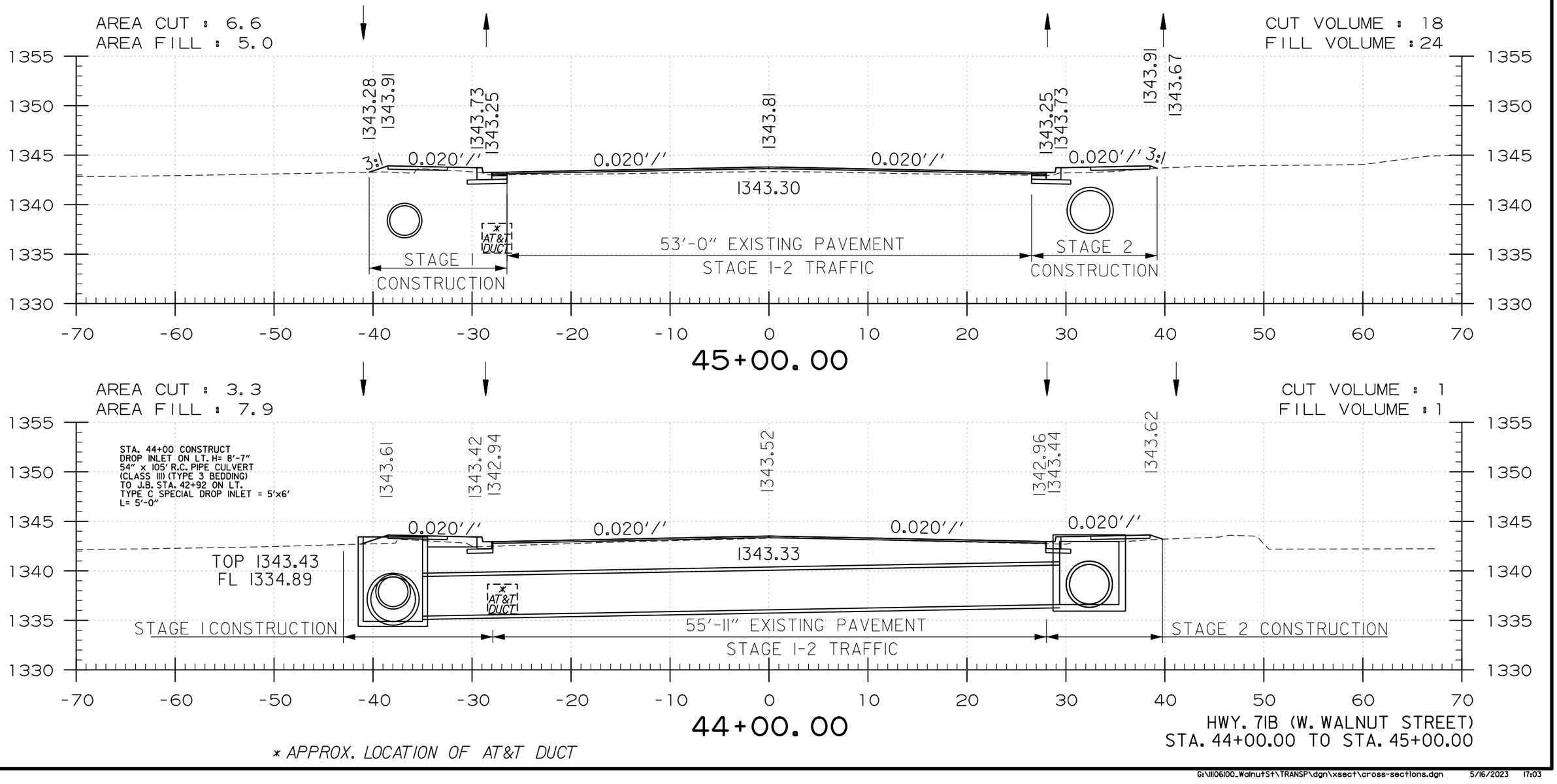
HWY. 71B (W. WALNUT STREET)
STA. 43+00.00 TO STA. 43+95.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	254	320
		CROSS SECTIONS				



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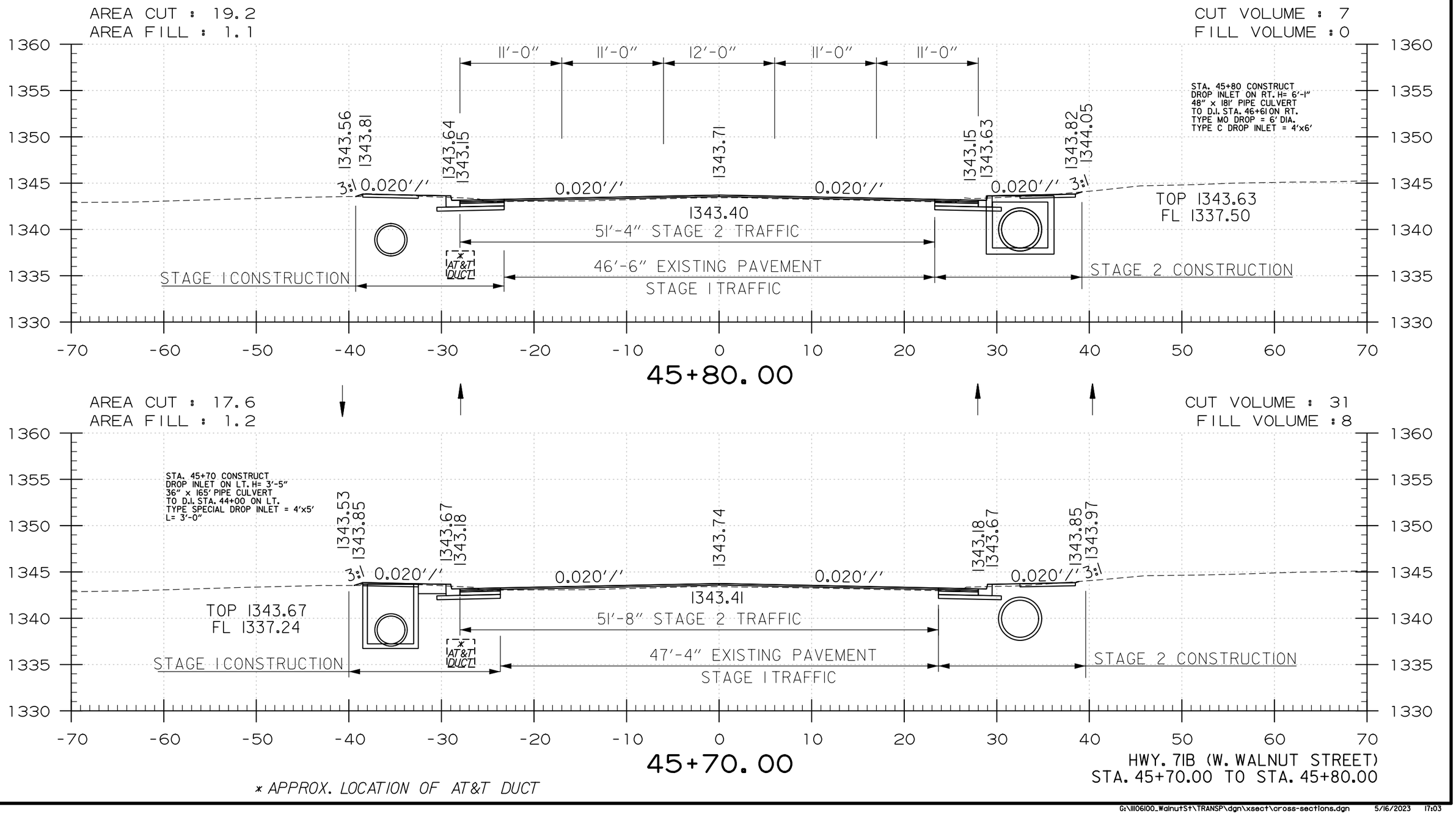
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	255	320
		CROSS SECTIONS				



USER: JJ5206
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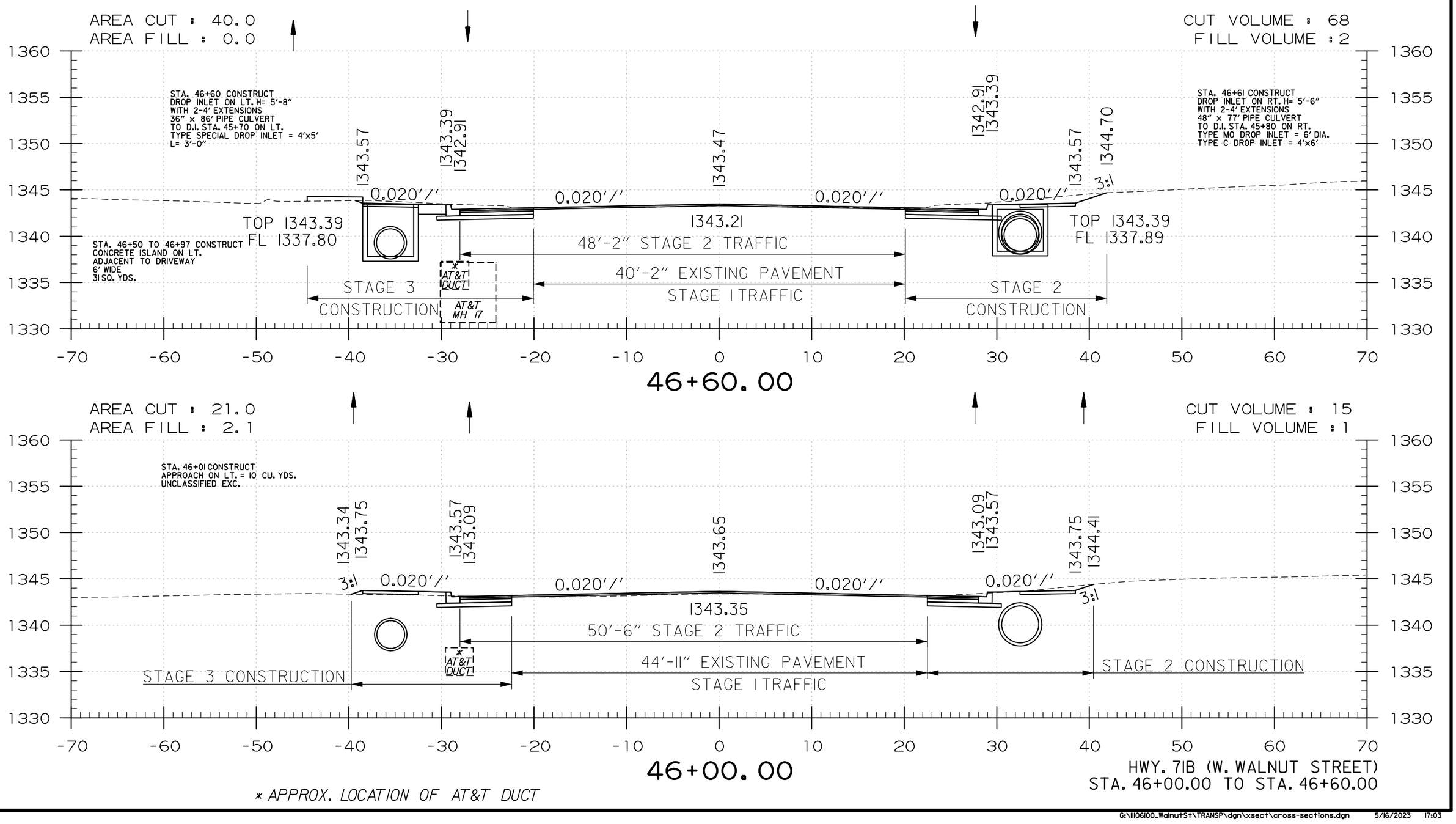
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	256	320
		CROSS SECTIONS				



USER: JJ5206
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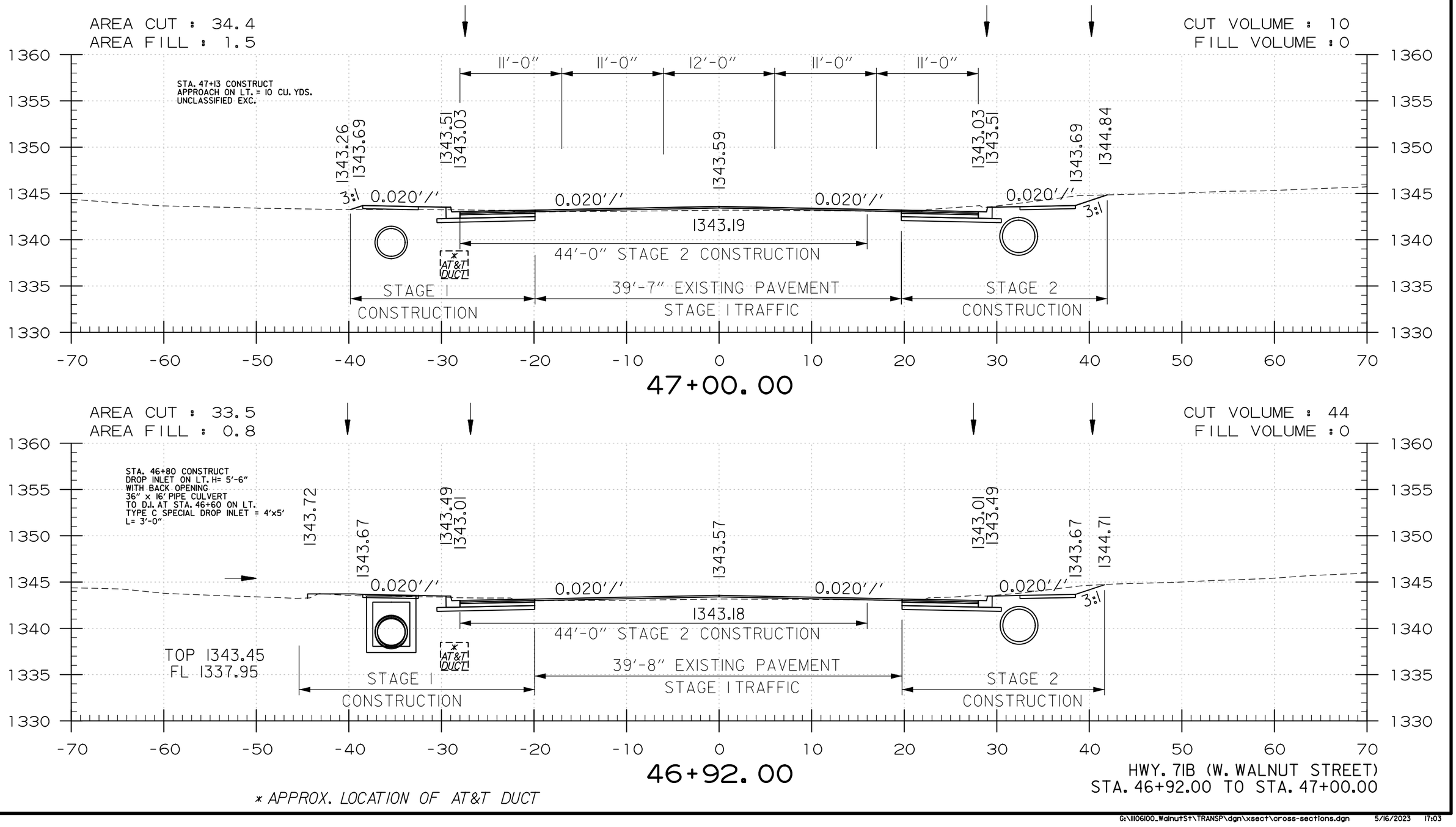
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	257	320
		CROSS SECTIONS				



USER: JJ5206
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MODEL: CROSS SECTIONS
SCALE: 1=10

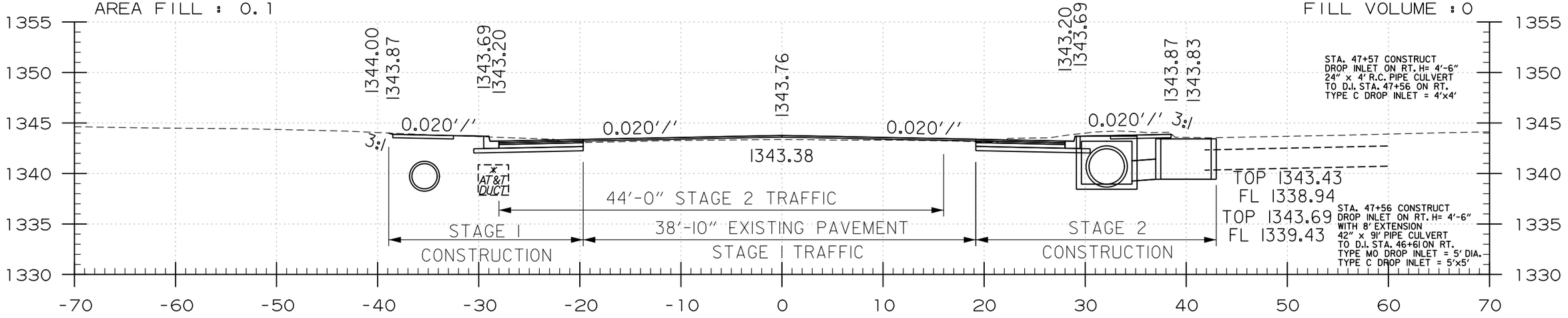
G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	258	320
		CROSS SECTIONS				

STA. 47+74, 30.70' RT. IN PLACE
BUS STOP SHELTER
RELOCATE TO 47+74, 41' RT.

AREA CUT : 33.9
AREA FILL : 0.1

CUT VOLUME : 4
FILL VOLUME : 0



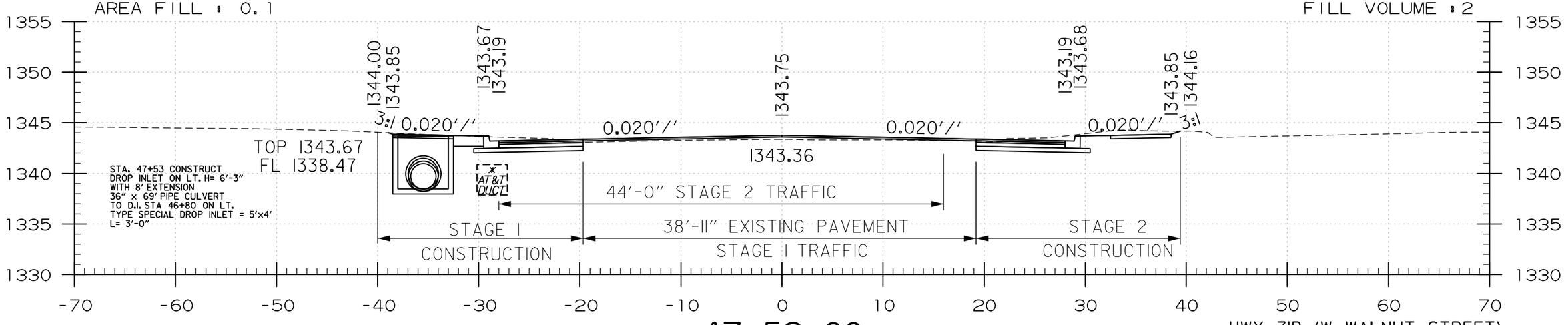
STA. 47+57 CONSTRUCT
DROP INLET ON RT. H= 4'-6"
24" x 4' R.C. PIPE CULVERT
TO D.I. STA. 47+56 ON RT.
TYPE C DROP INLET = 4'x4'

STA. 47+56 CONSTRUCT
DROP INLET ON RT. H= 4'-6"
WITH 8' EXTENSION
42" x 91' PIPE CULVERT
TO D.I. STA. 46+61 ON RT.
TYPE MO DROP INLET = 5' DIA.
TYPE C DROP INLET = 5'x5'

47+56.00

AREA CUT : 34.4
AREA FILL : 0.1

CUT VOLUME : 68
FILL VOLUME : 2



STA. 47+53 CONSTRUCT
DROP INLET ON LT. H= 6'-3"
WITH 8' EXTENSION
36" x 69' PIPE CULVERT
TO D.I. STA 46+80 ON LT.
TYPE SPECIAL DROP INLET = 5'x4'
L= 3'-0"

47+53.00

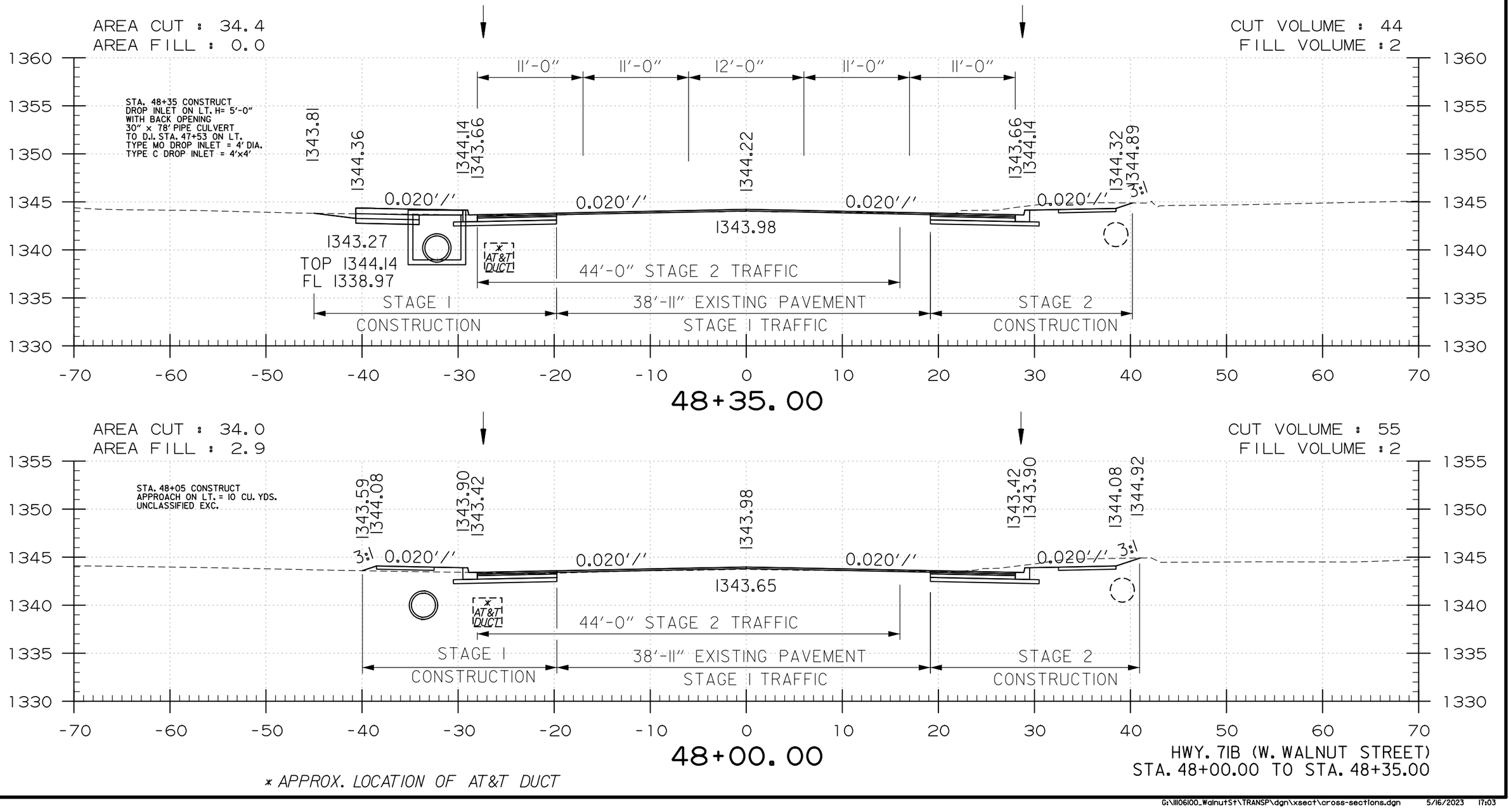
HWY. 71B (W. WALNUT STREET)
STA. 47+53.00 TO STA. 47+56.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	259	320
		CROSS SECTIONS				



USER: JJ5206
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PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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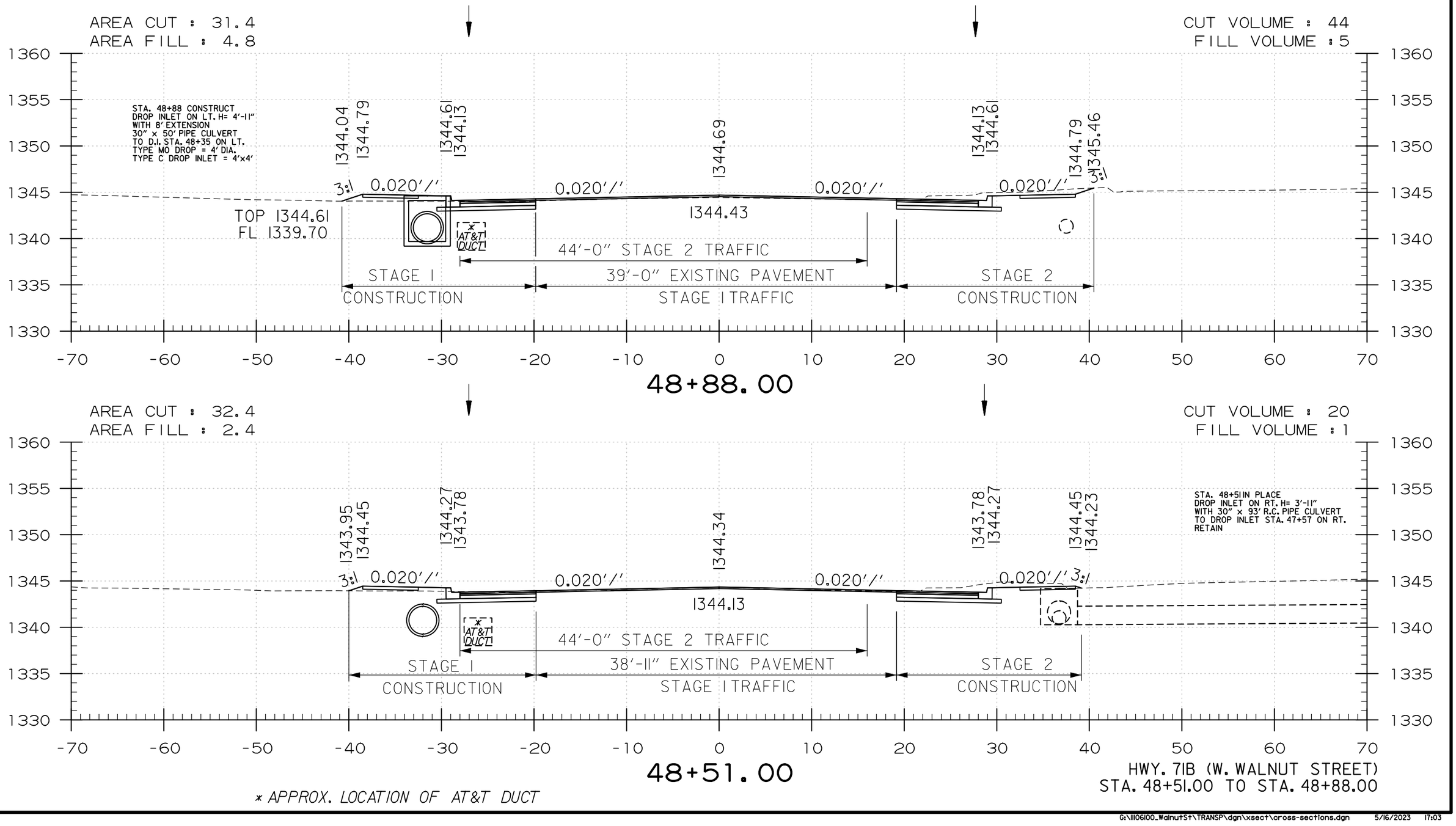
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	260	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
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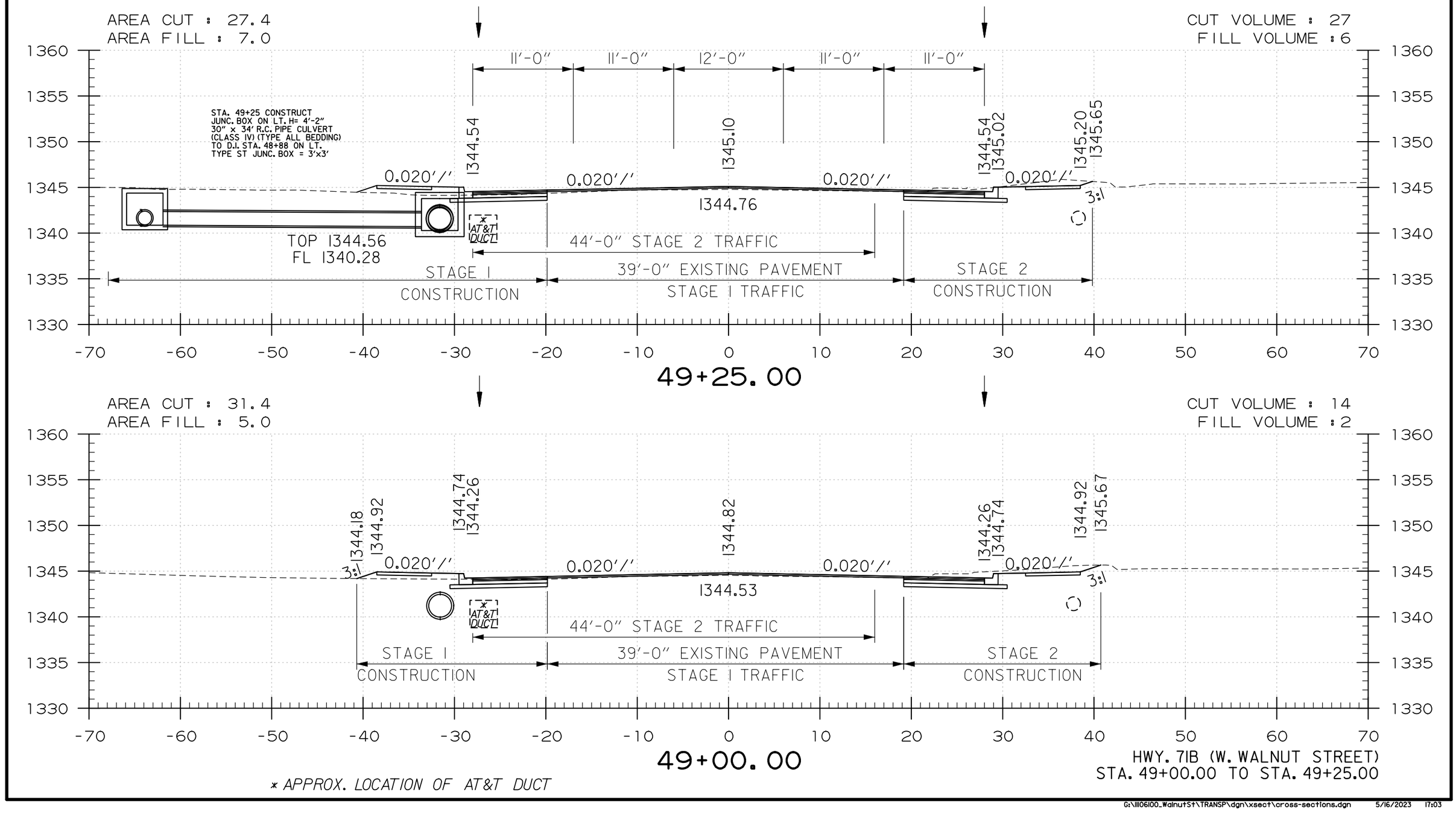
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	261	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
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PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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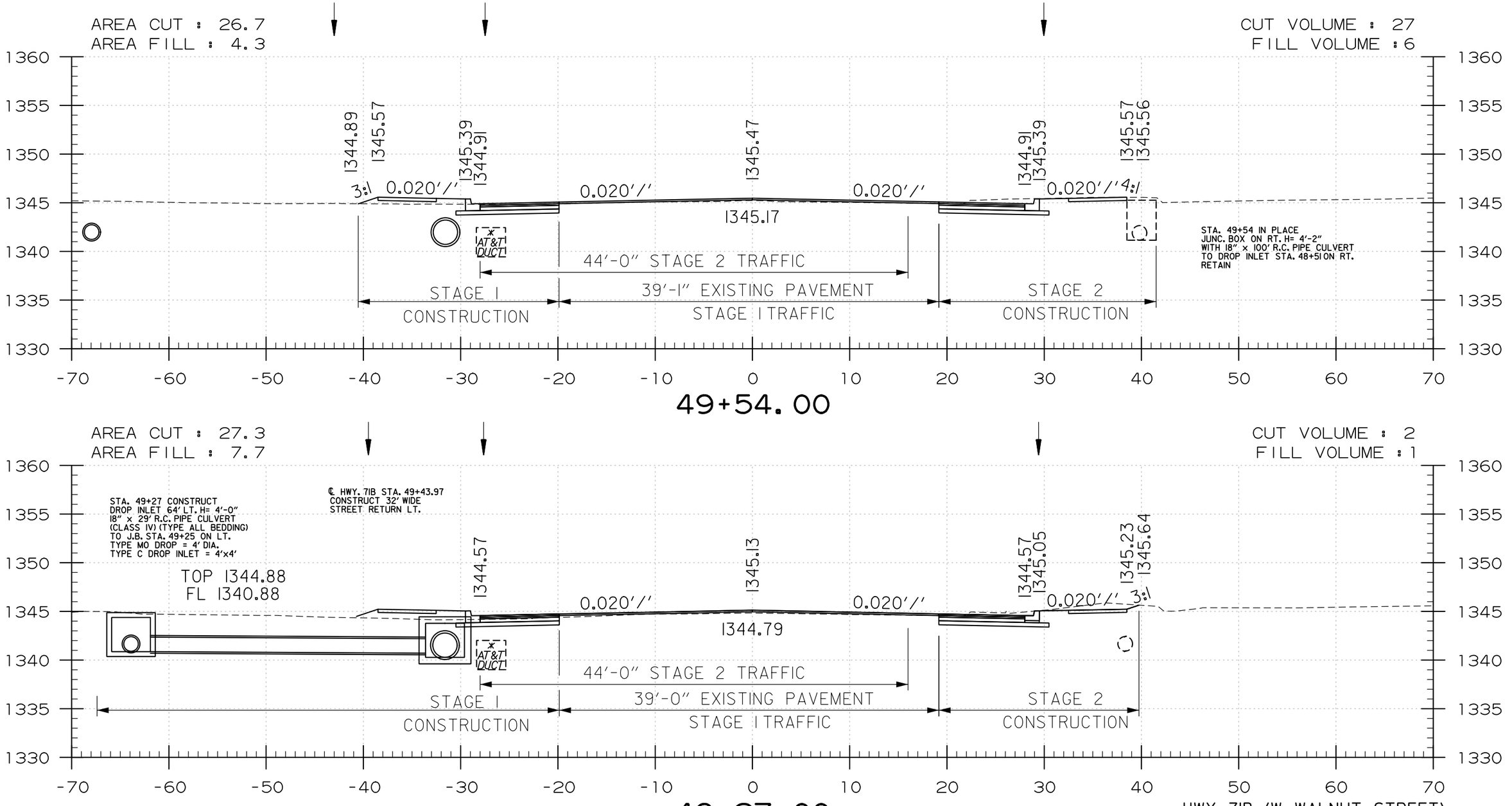
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	262	320
		CROSS SECTIONS				



49+54.00

49+27.00

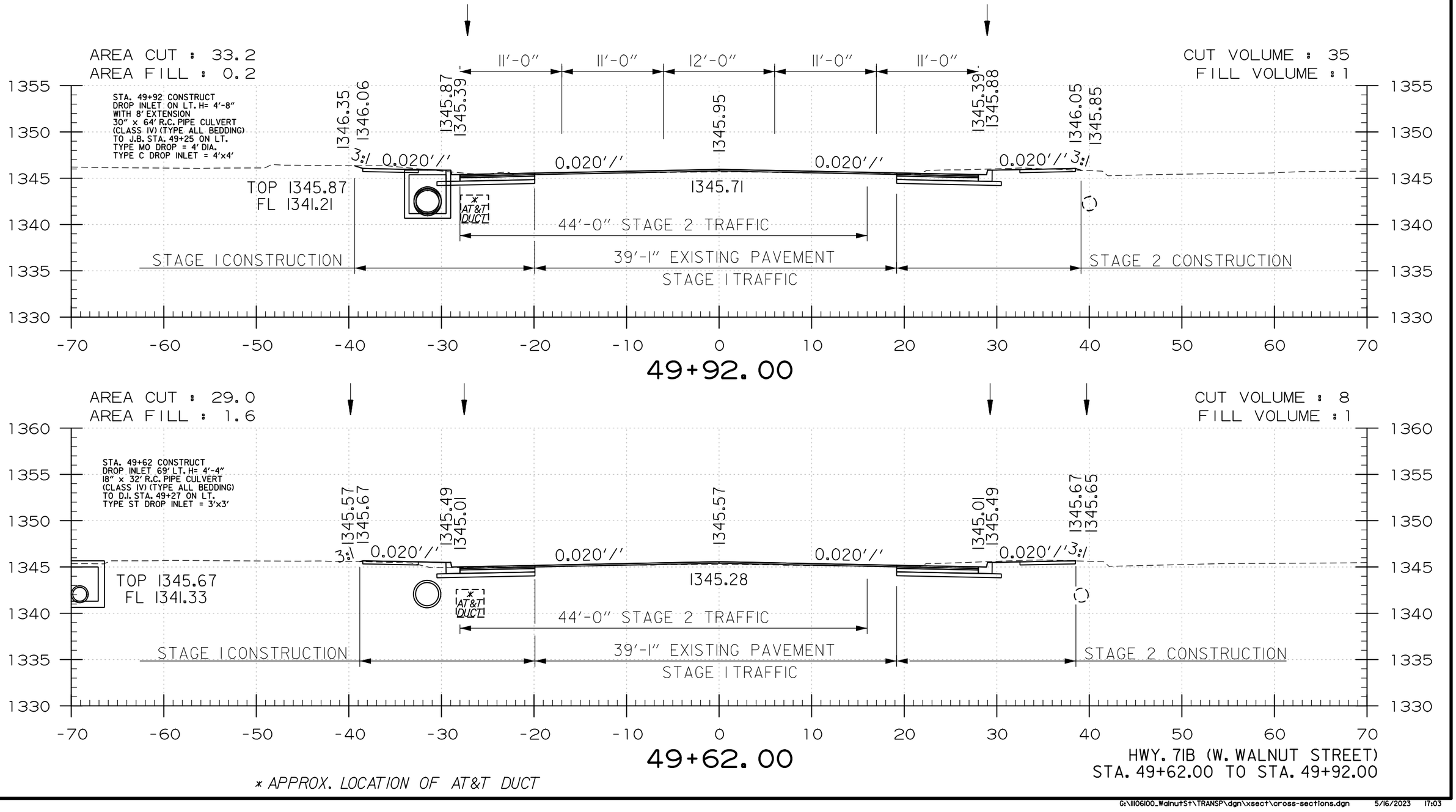
HWY. 71B (W. WALNUT STREET)
STA. 49+27.00 TO STA. 49+54.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	263	320
		CROSS SECTIONS				



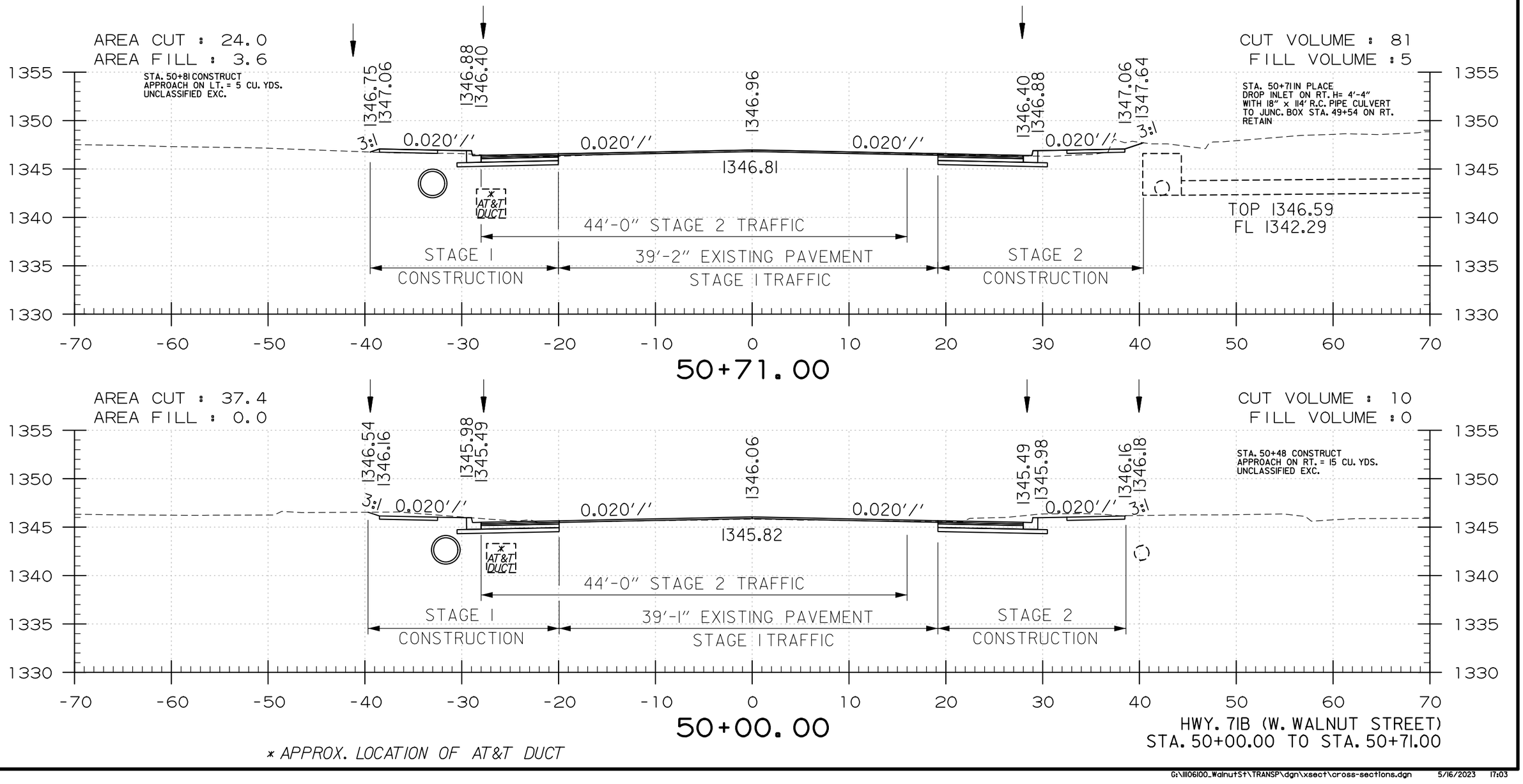
* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 49+62.00 TO STA. 49+92.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	264	320
		CROSS SECTIONS				



USER: JJ5206
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SCALE: 1:10

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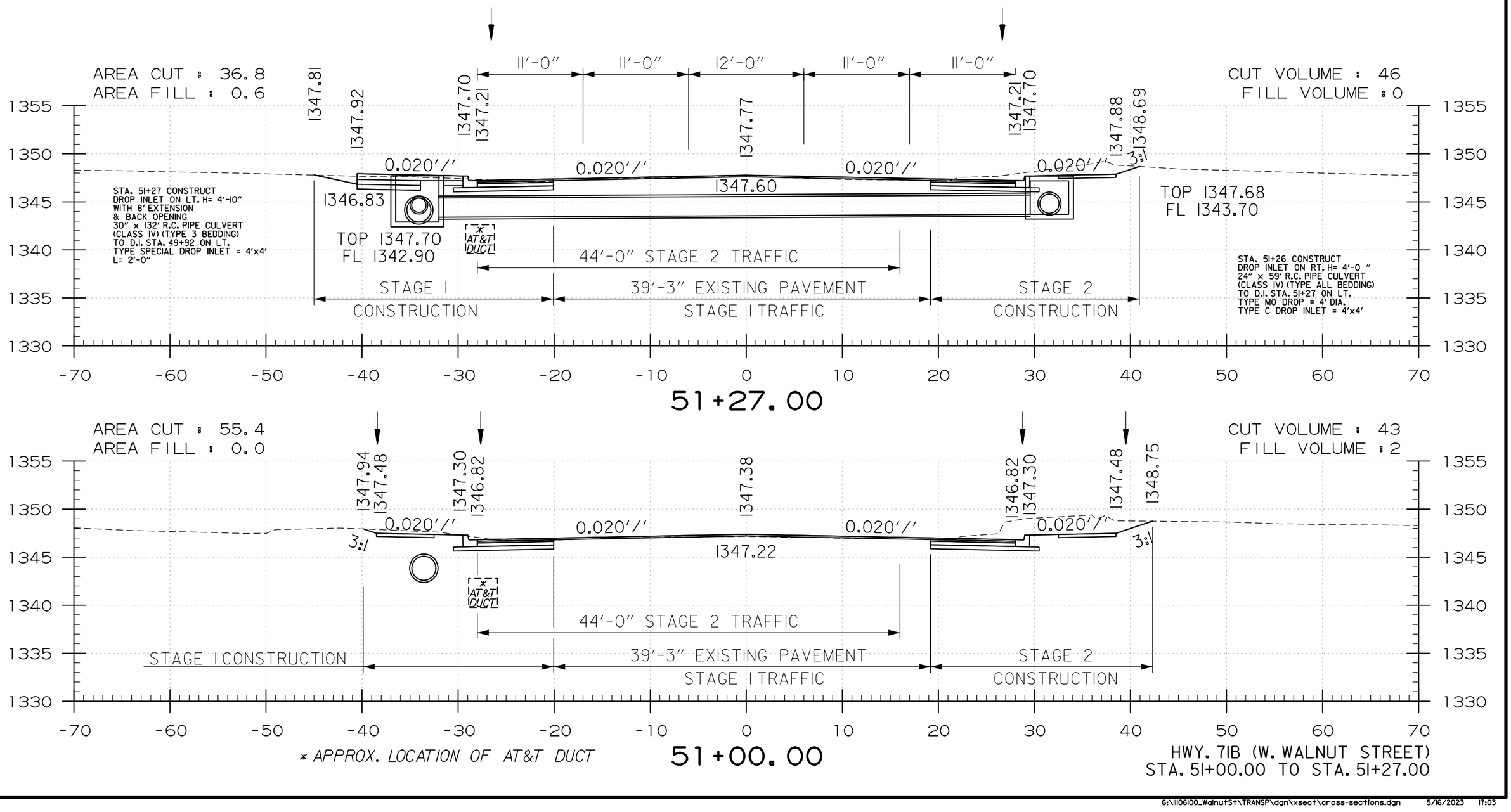
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	265	320
		CROSS SECTIONS				



51+27.00

51+00.00

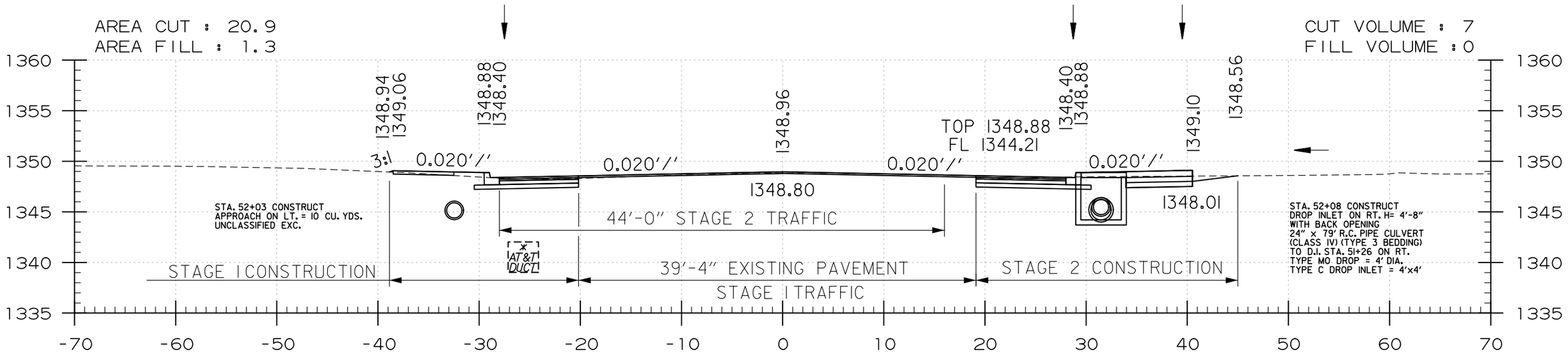
* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 51+00.00 TO STA. 51+27.00

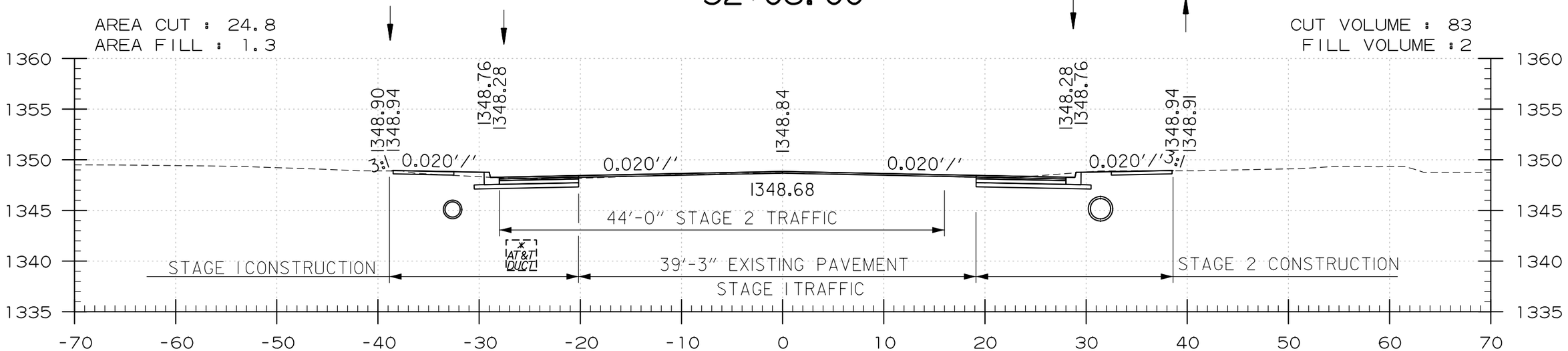
USER: JJ5206
DESIGN FILE: G:\111061100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	266	320
		CROSS SECTIONS				

STA. 52+20 CONSTRUCT
CONNECTING DRIVE ON RT. = 5 CU. YDS.
UNCLASSIFIED EXC.



52+08.00



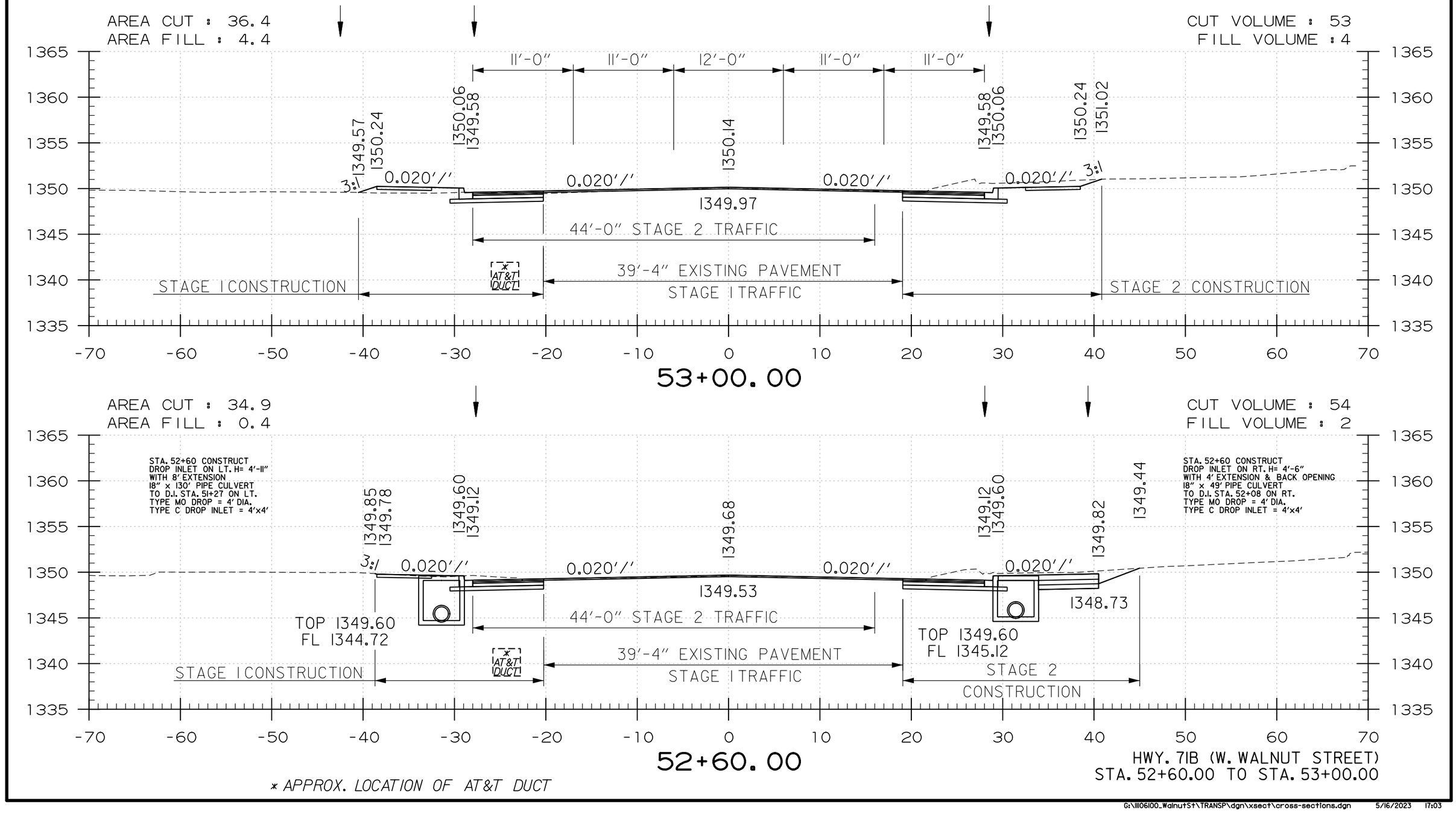
52+00.00

HWY. 71B (W. WALNUT STREET)
STA. 52+00.00 TO STA. 52+08.00

* APPROX. LOCATION OF AT&T DUCT

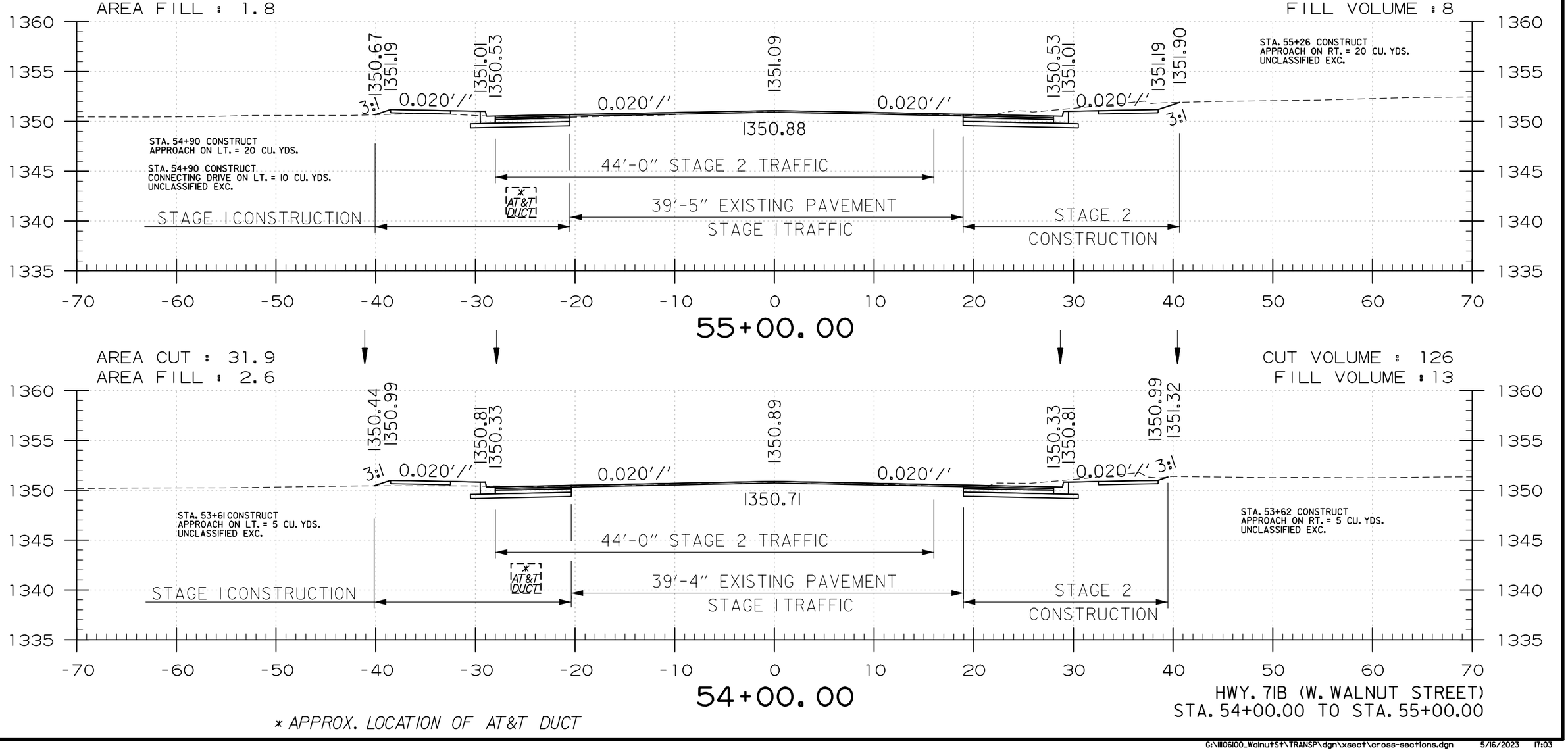
USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	267	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	268	320
		CROSS SECTIONS				

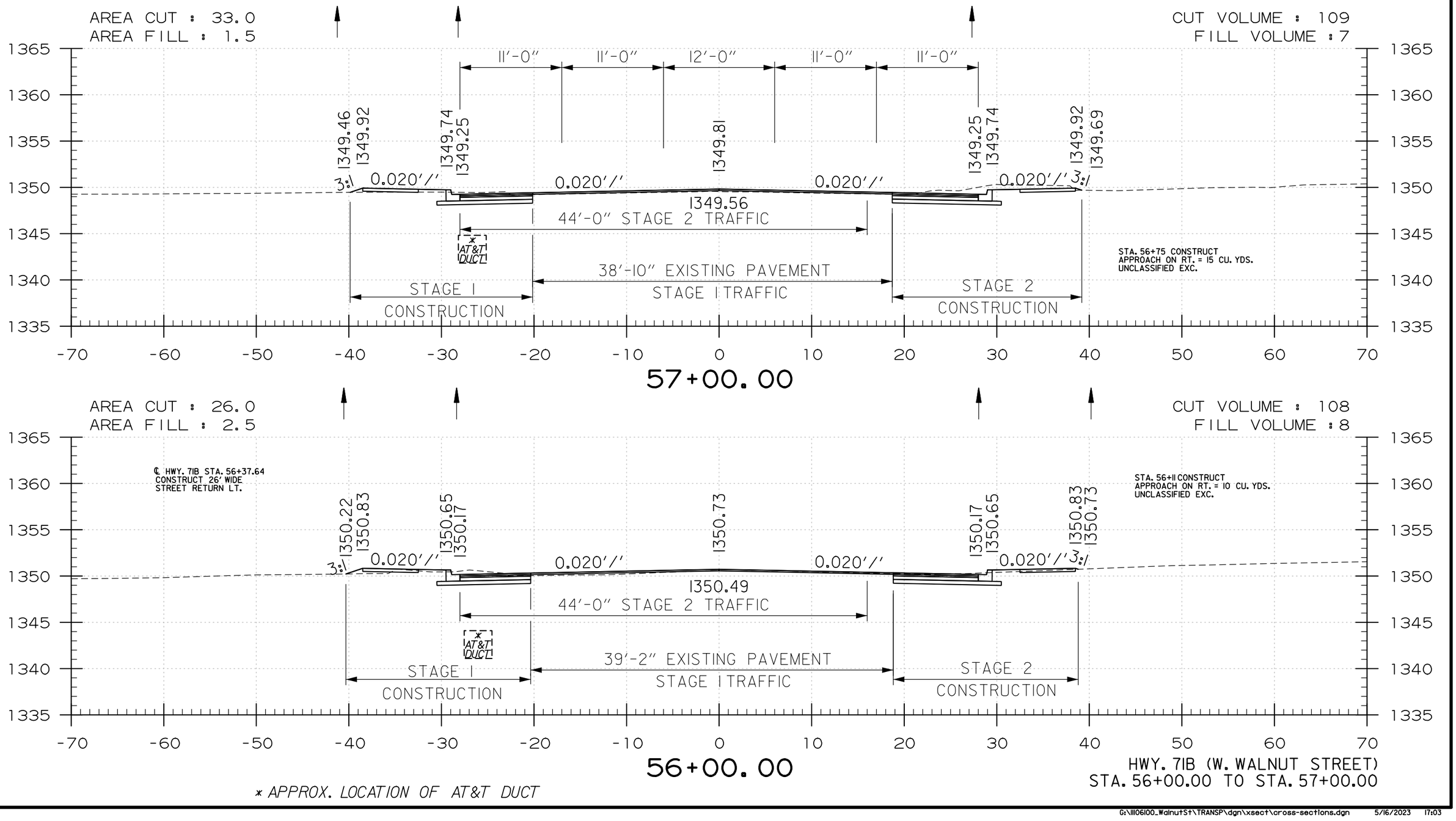


* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 54+00.00 TO STA. 55+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	269	320
		CROSS SECTIONS				

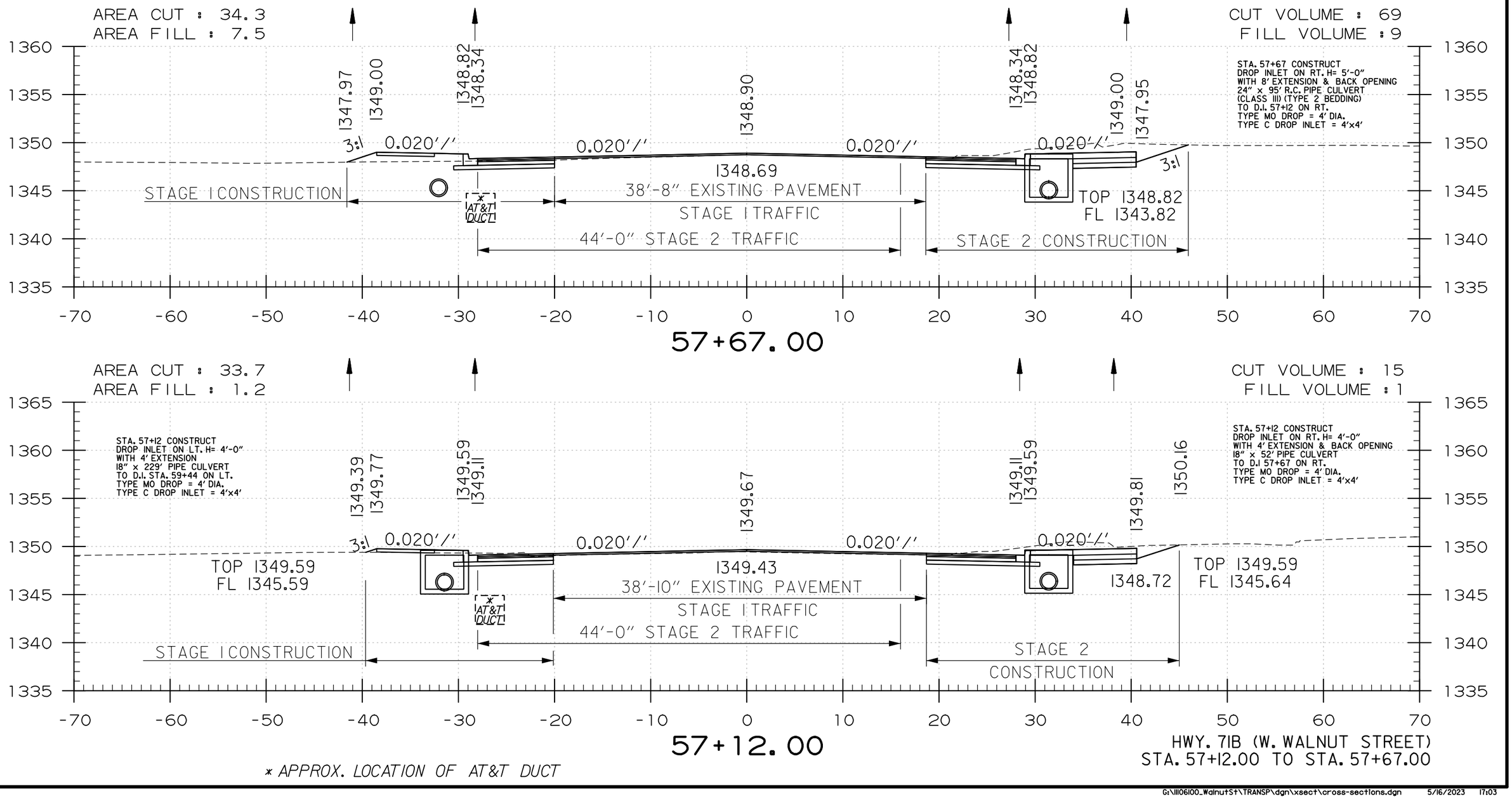


* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	270	320
		CROSS SECTIONS				

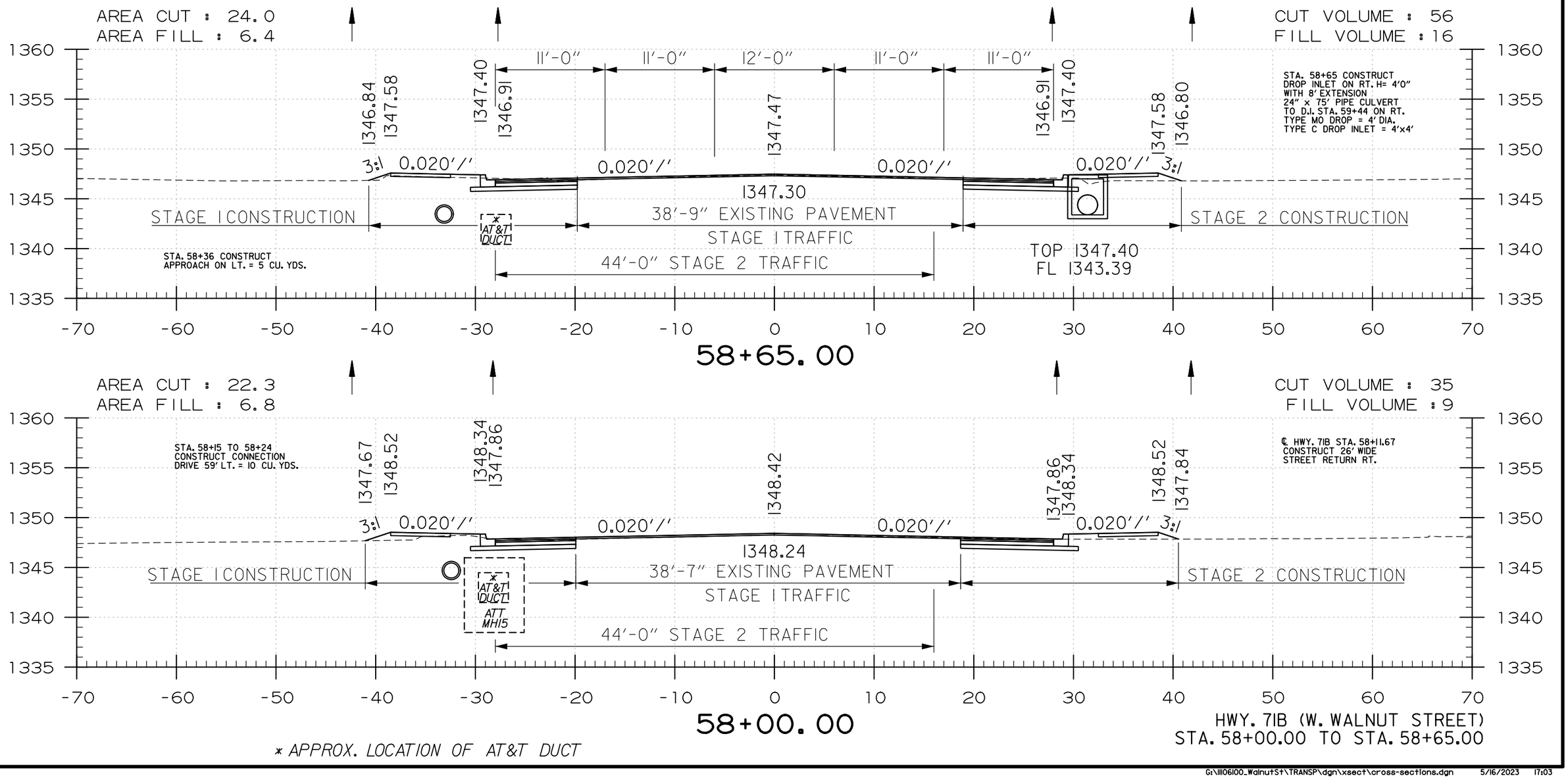


* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

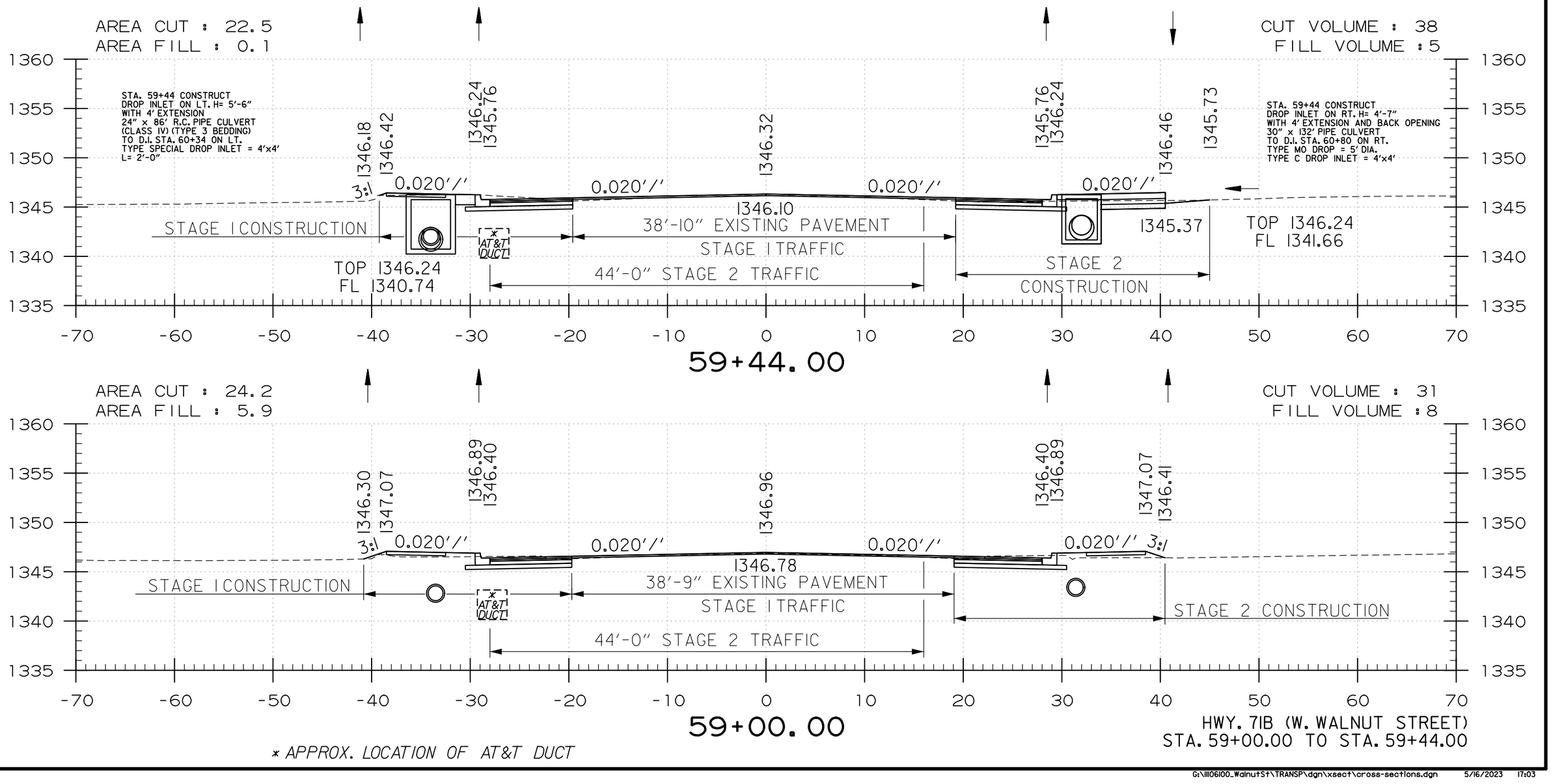
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	271	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\III06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

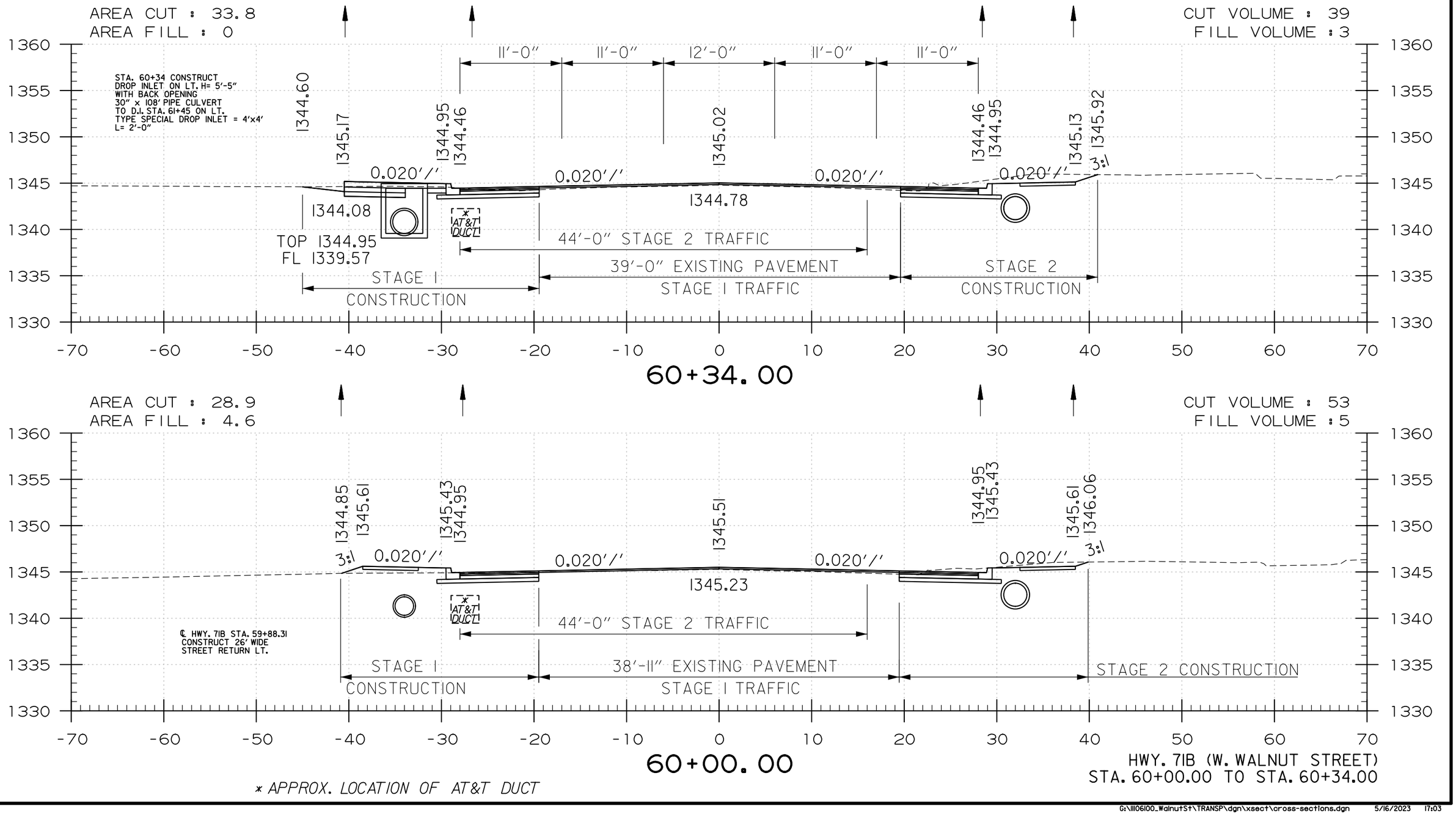
G:\III06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	272	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: NIO

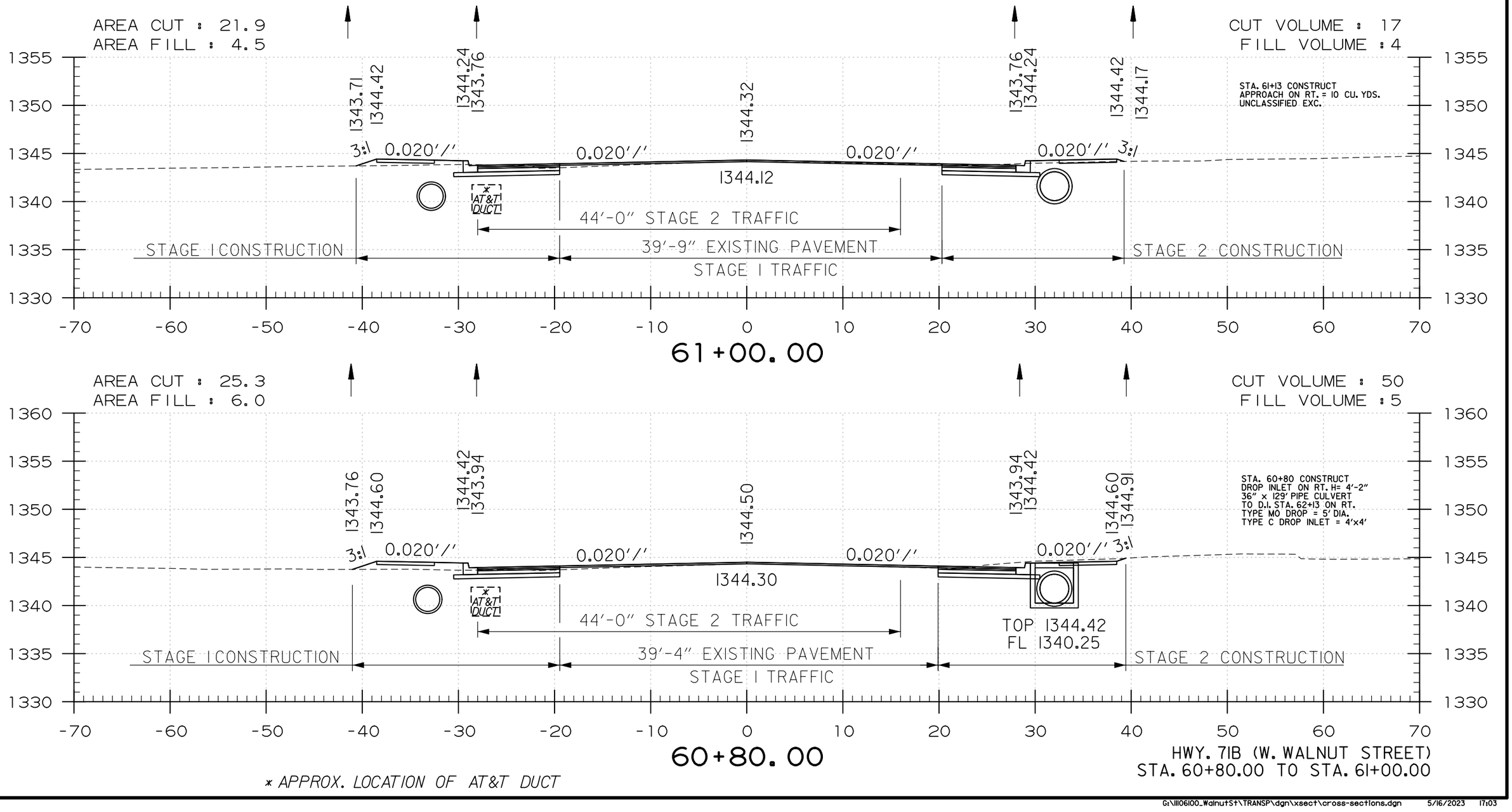
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	273	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1=10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	274	320
		CROSS SECTIONS				

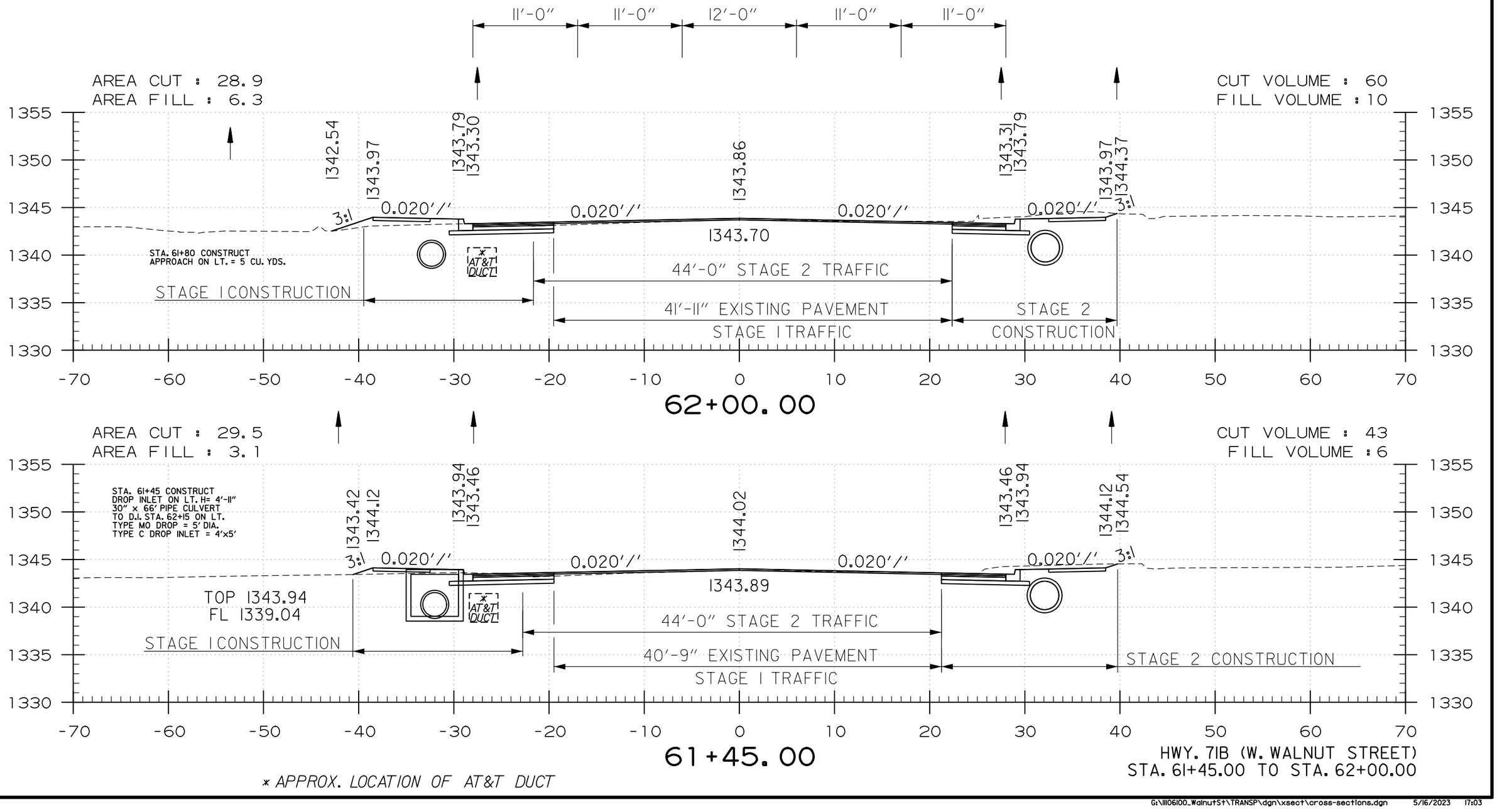


* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 60+80.00 TO STA. 61+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	275	320
		CROSS SECTIONS				

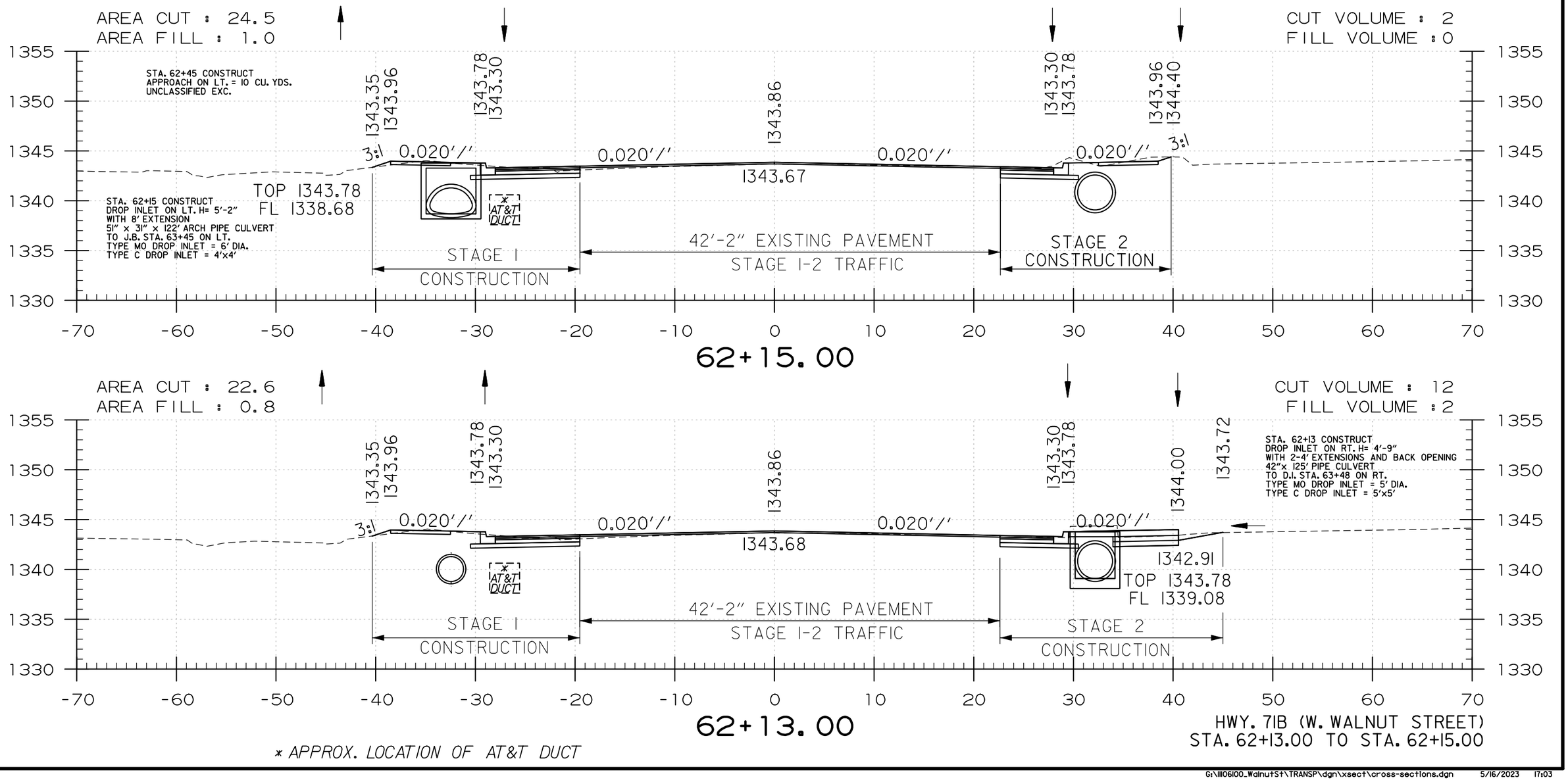


* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

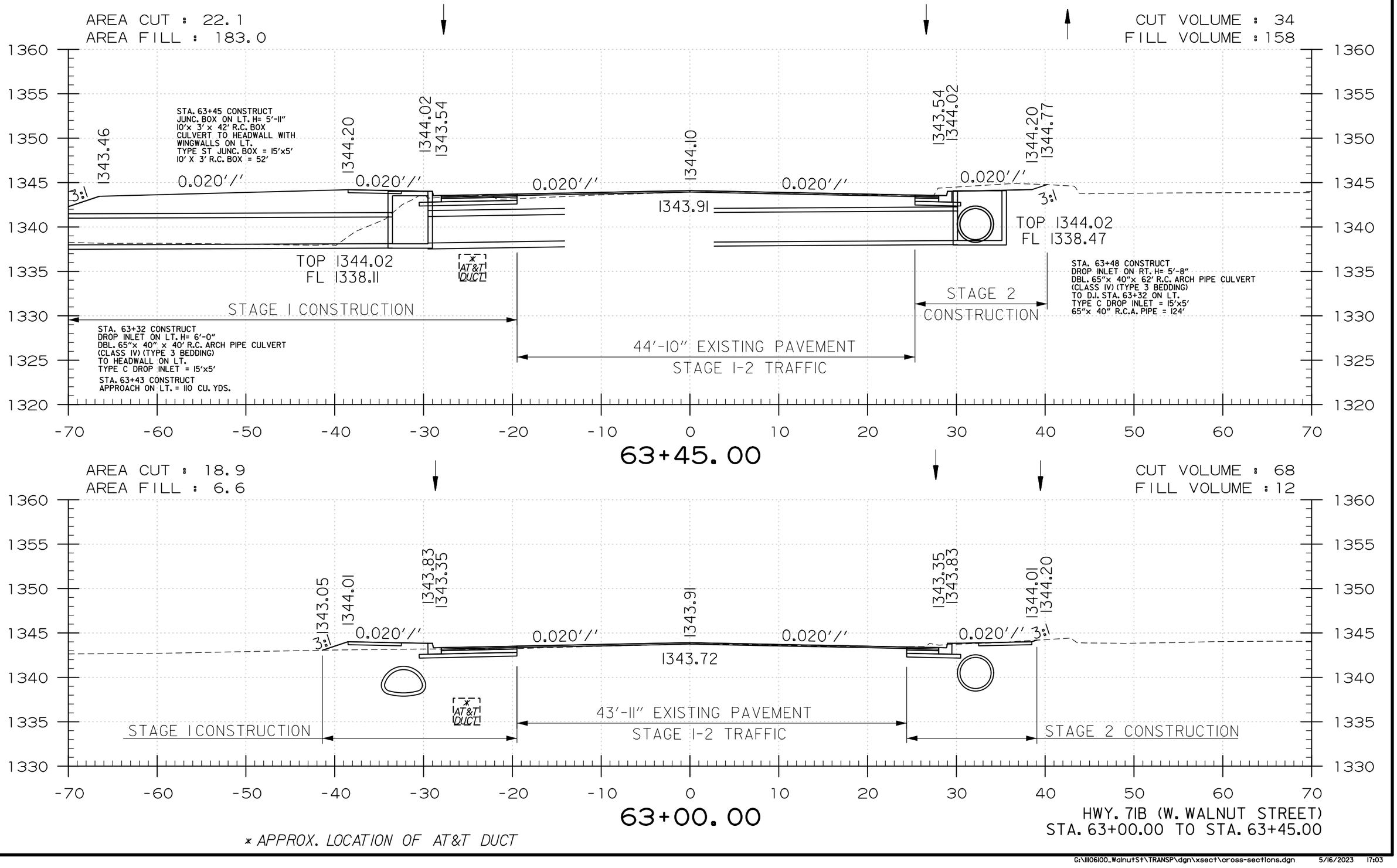
G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	276	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	277	320
		CROSS SECTIONS				

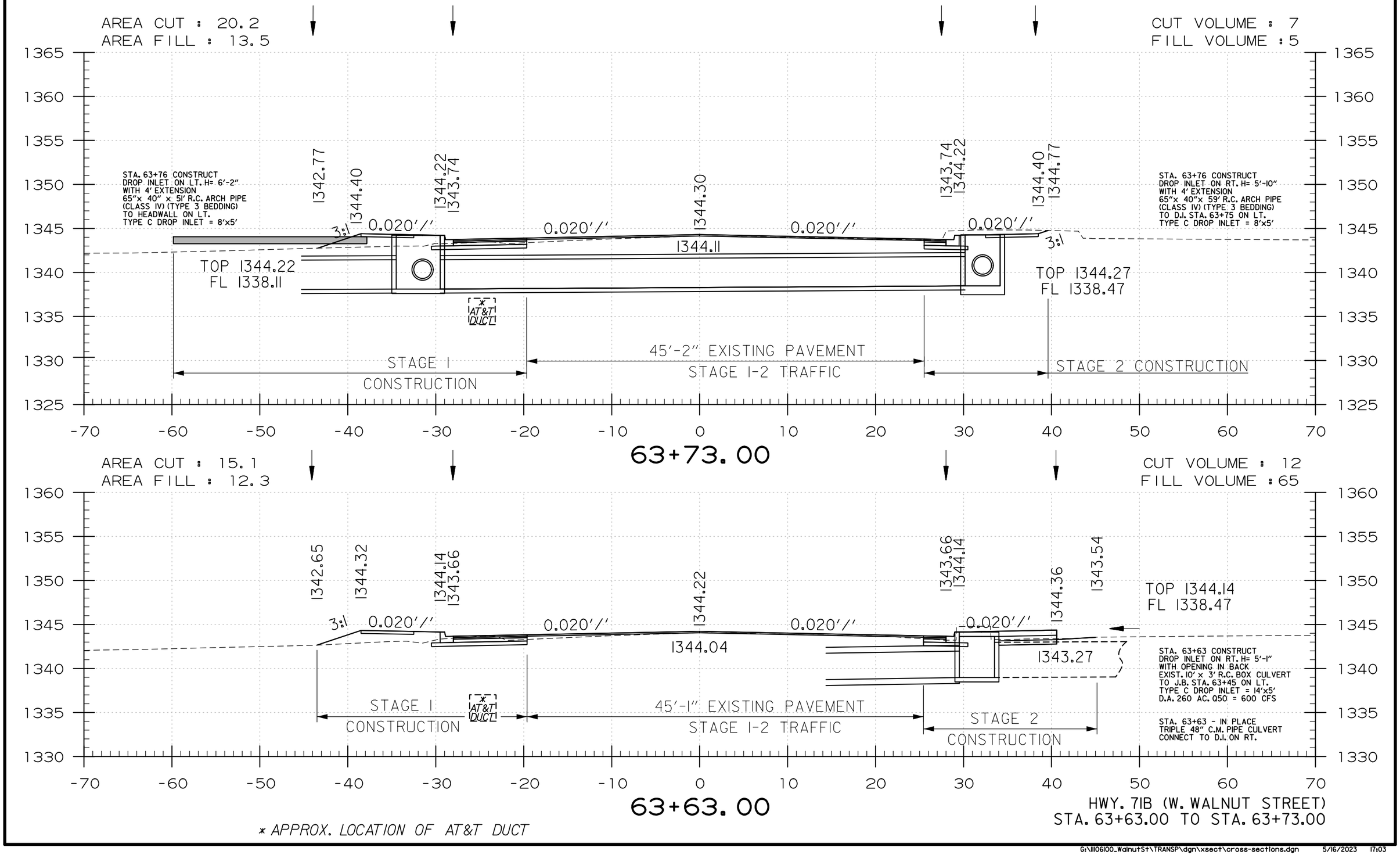


* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	278	320
		CROSS SECTIONS				



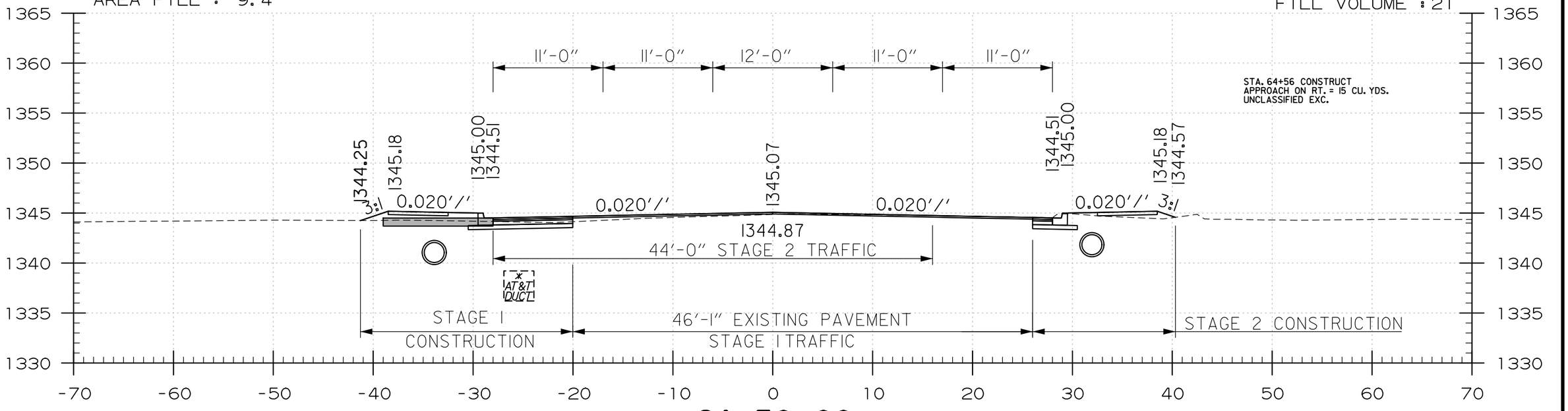
* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 63+63.00 TO STA. 63+73.00

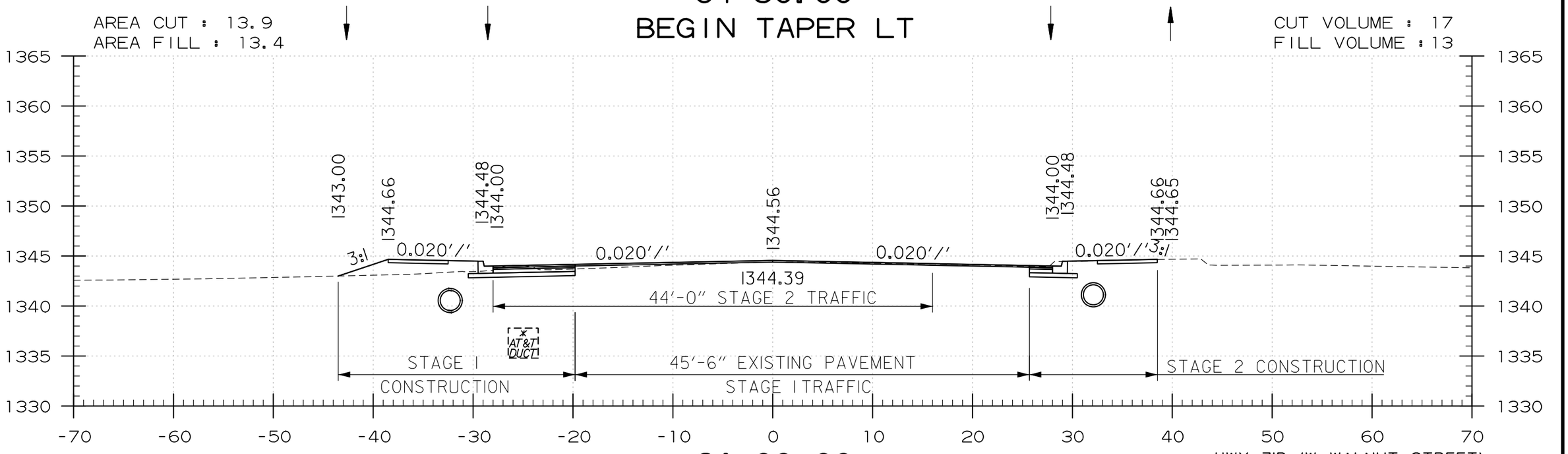
USER: JJ5206
DESIGN FILE: G:\ll06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\ll06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	279	320
		CROSS SECTIONS				



64+50.00
BEGIN TAPER LT



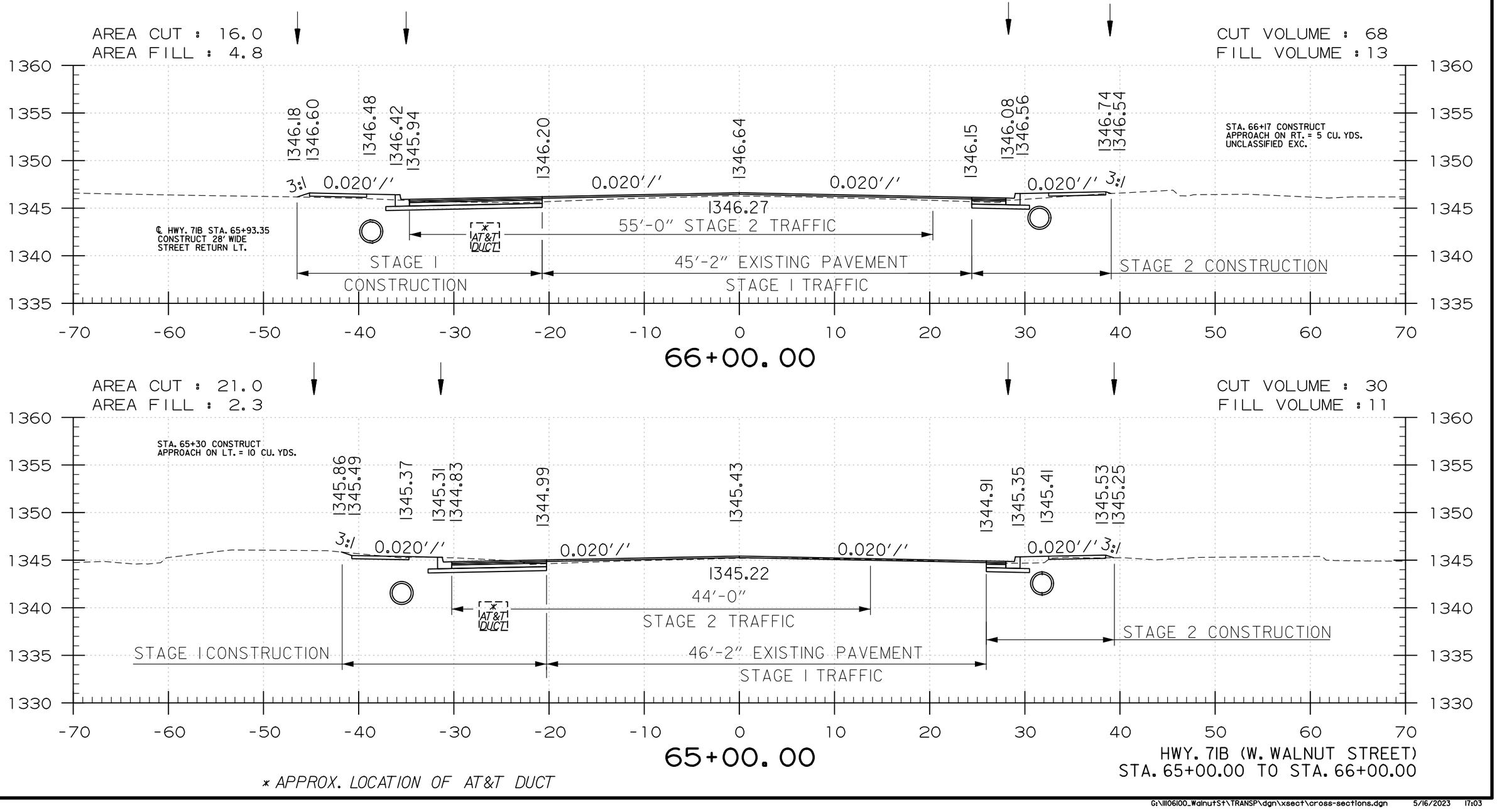
64+00.00

HWY. 71B (W. WALNUT STREET)
STA. 64+00.00 TO STA. 64+50.00

* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	280	320
		CROSS SECTIONS				

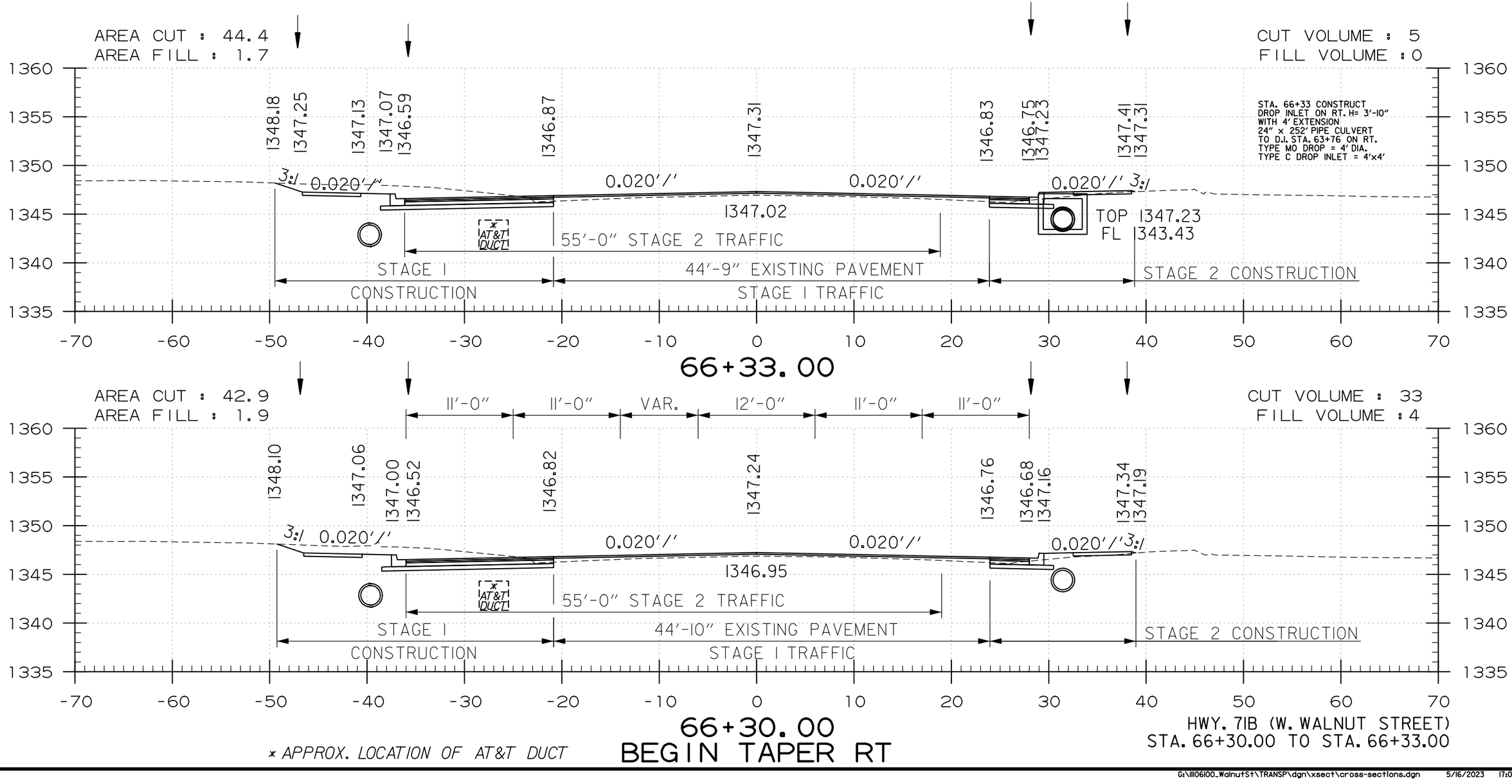


* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

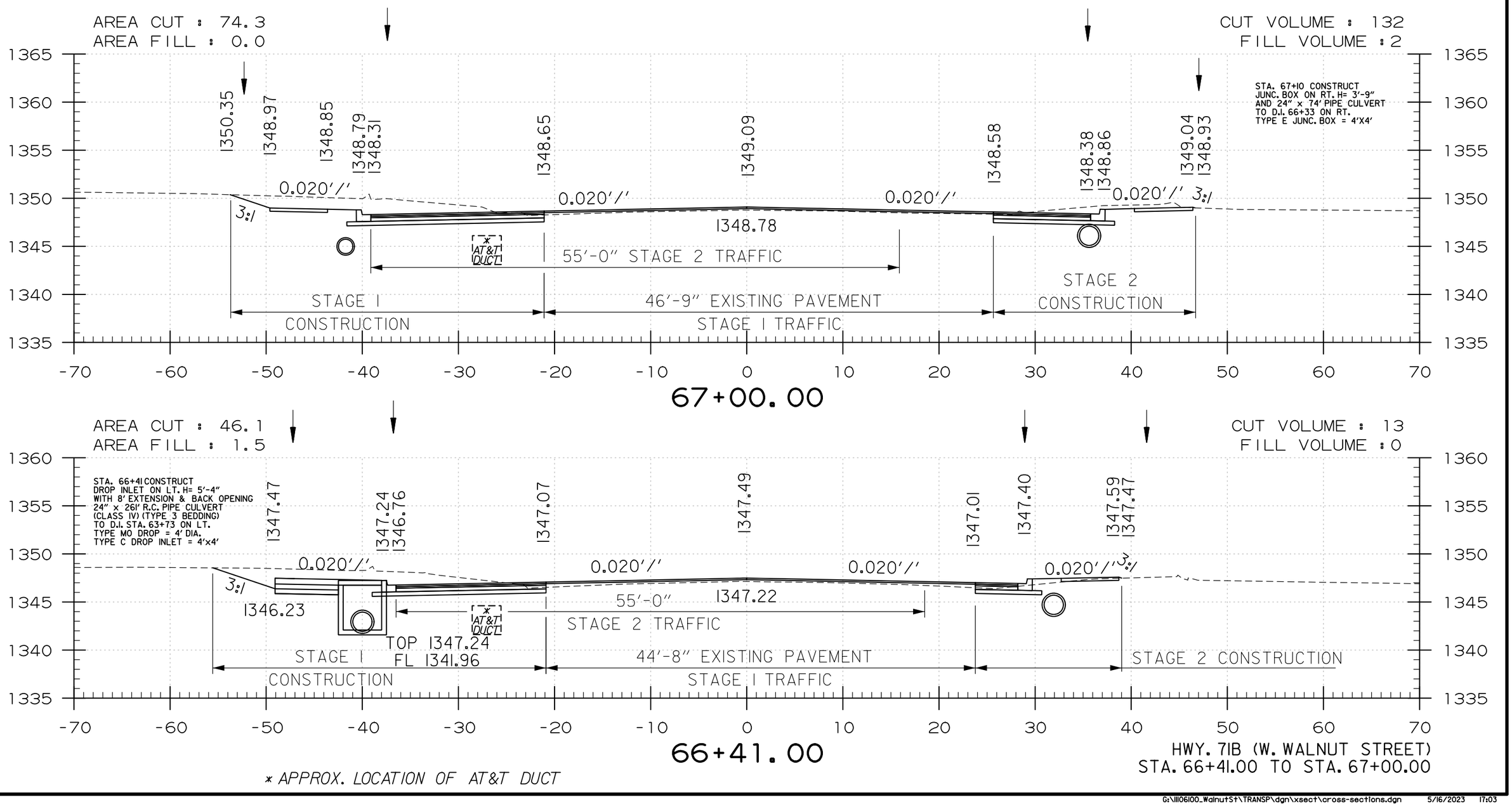
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	281	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: NO

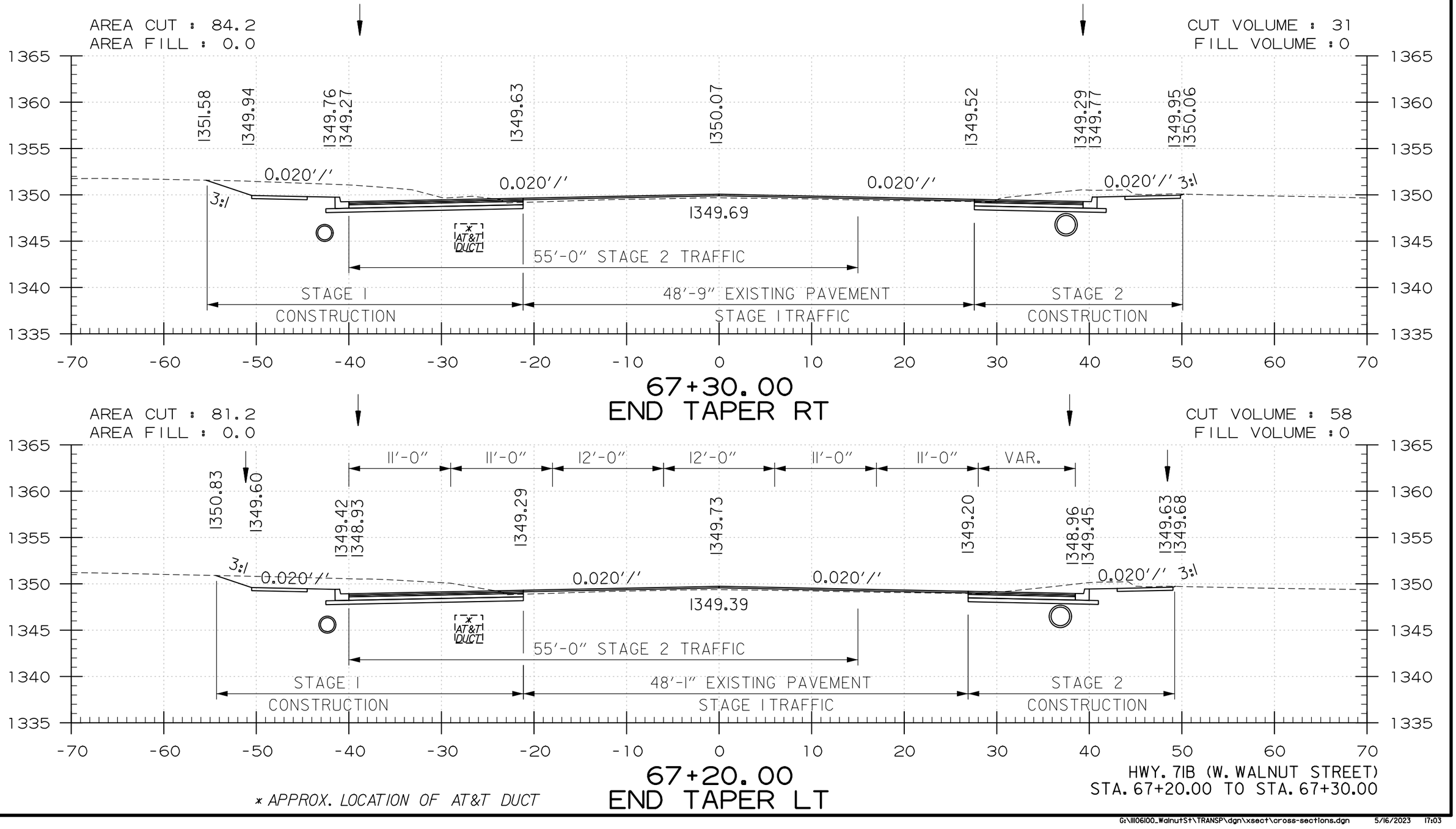
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	282	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	283	320
		CROSS SECTIONS				

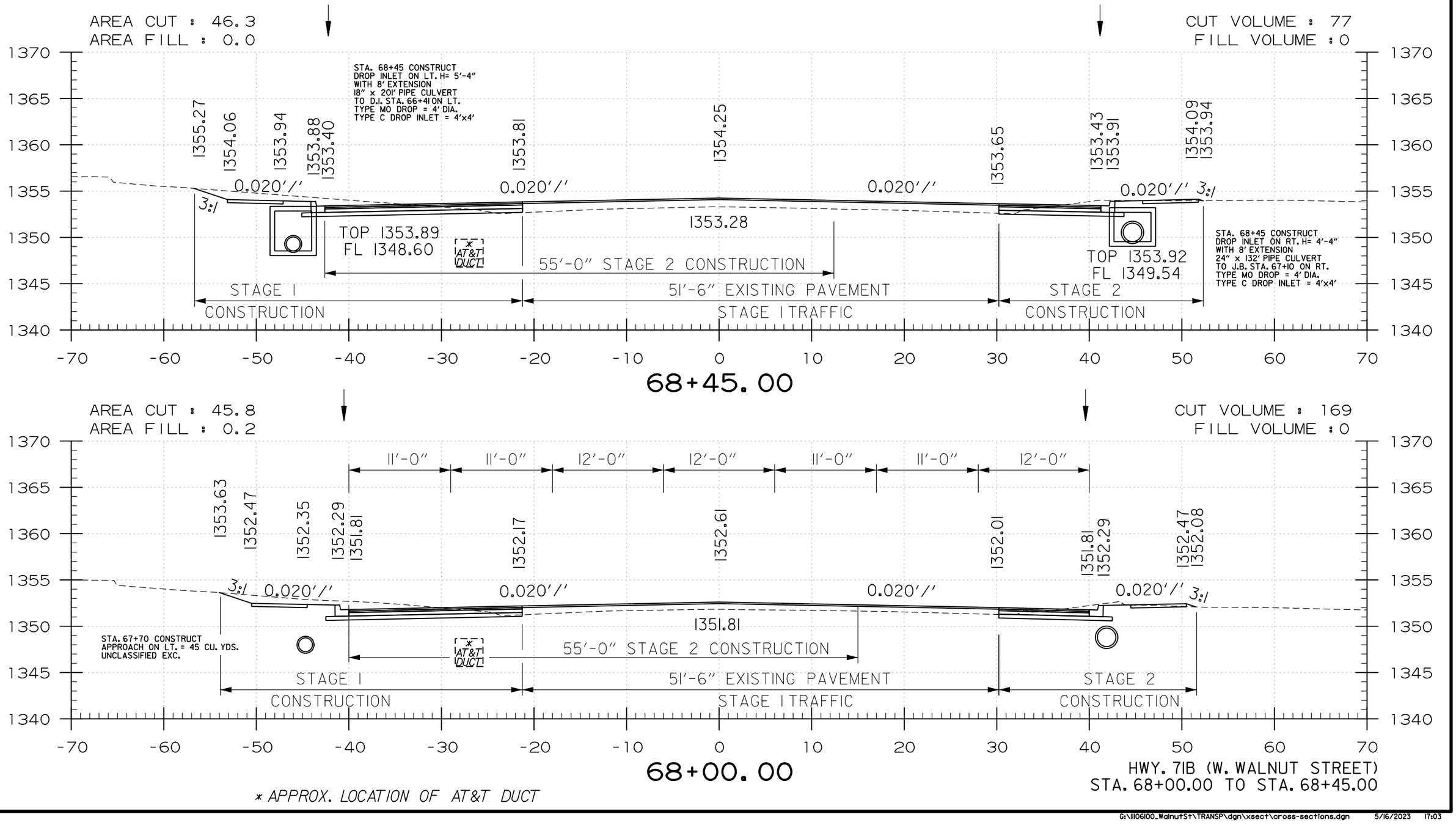


* APPROX. LOCATION OF AT&T DUCT

HWY. 71B (W. WALNUT STREET)
STA. 67+20.00 TO STA. 67+30.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

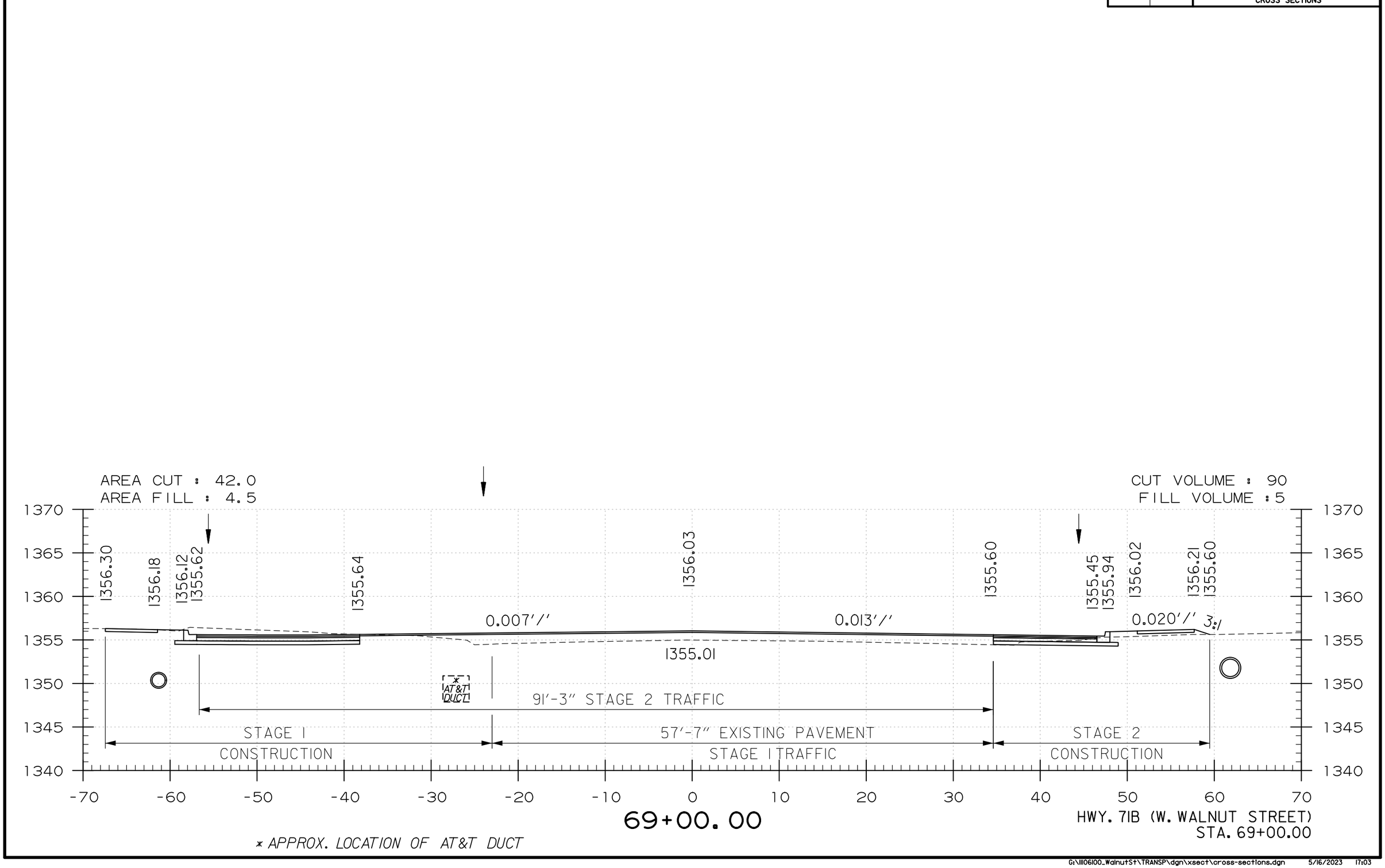
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	284	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

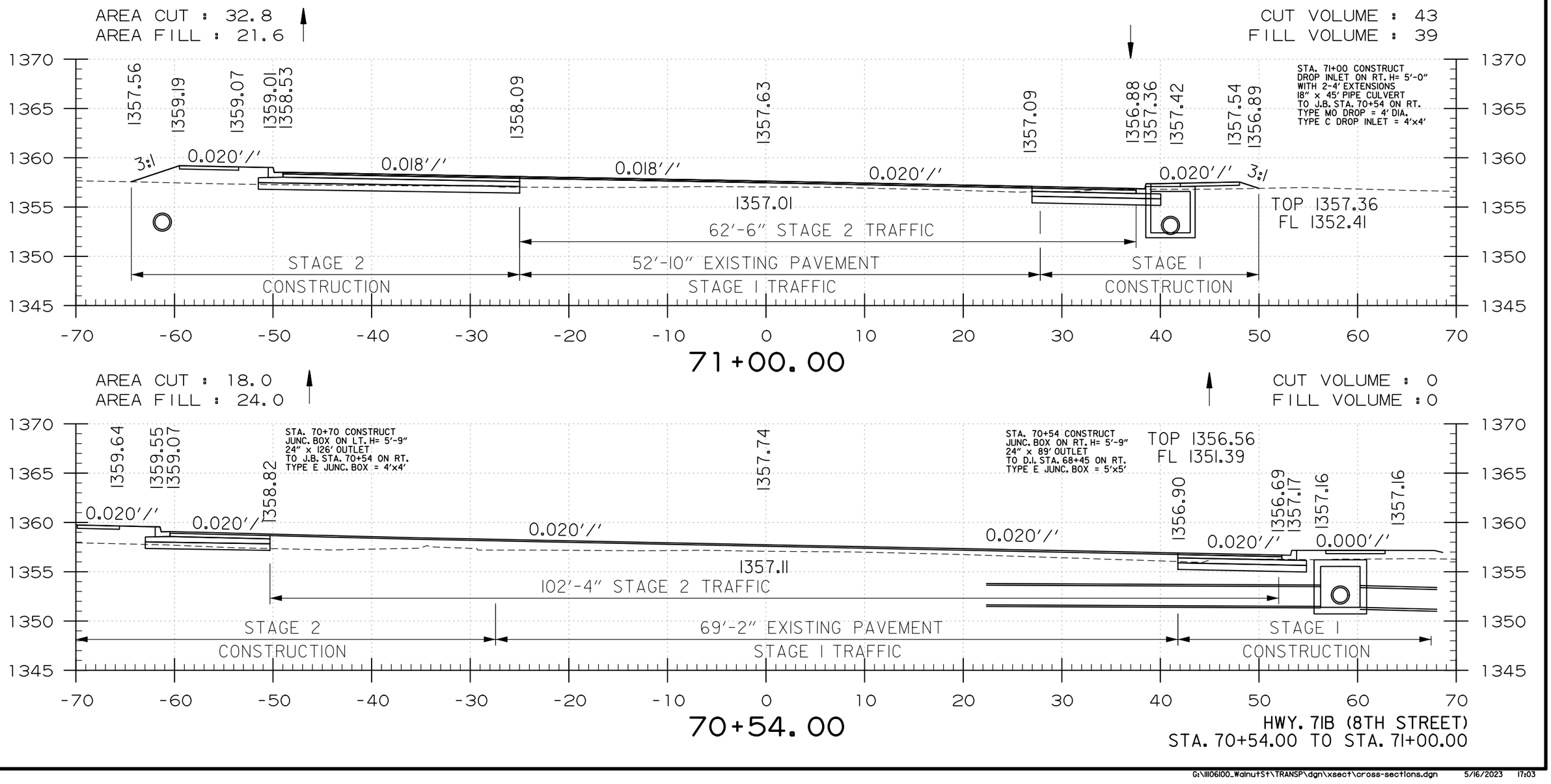
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	285	320
		CROSS SECTIONS				



* APPROX. LOCATION OF AT&T DUCT

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
SCALE: 1in0
MODEL: CROSS SECTIONS

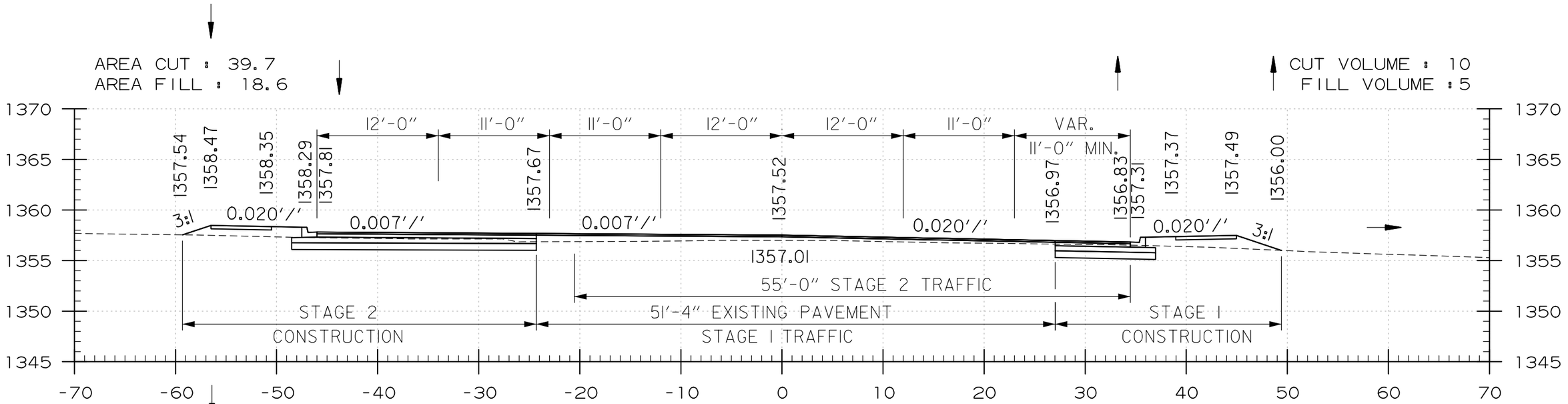
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	286	320
		CROSS SECTIONS				



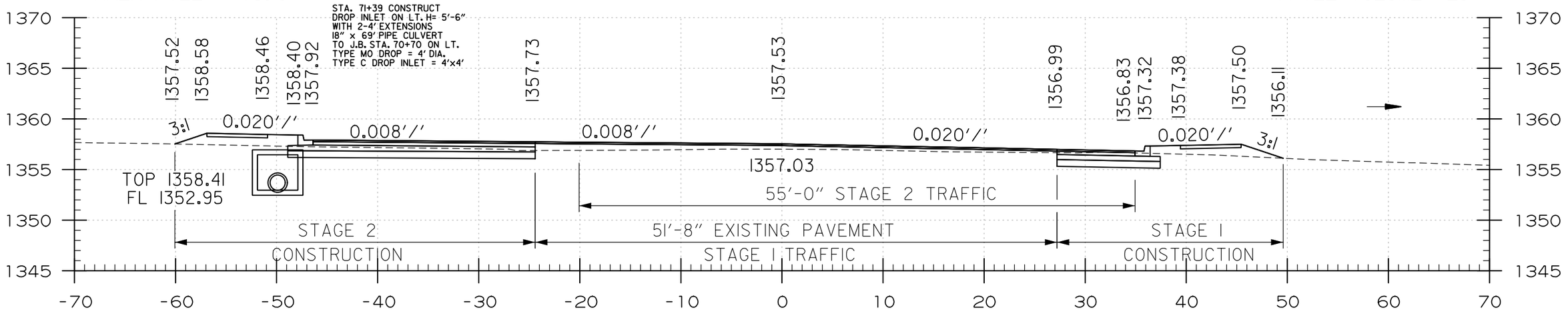
USER: JJ5206
DESIGN FILE: G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
SCALE: 1:10
MODEL: CROSS SECTIONS

G:\111106100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	287	320
		CROSS SECTIONS				



71+46.00
BEGIN TAPER LT



71+39.00

HWY. 71B (8TH STREET)
STA. 71+39.00 TO STA. 71+46.00

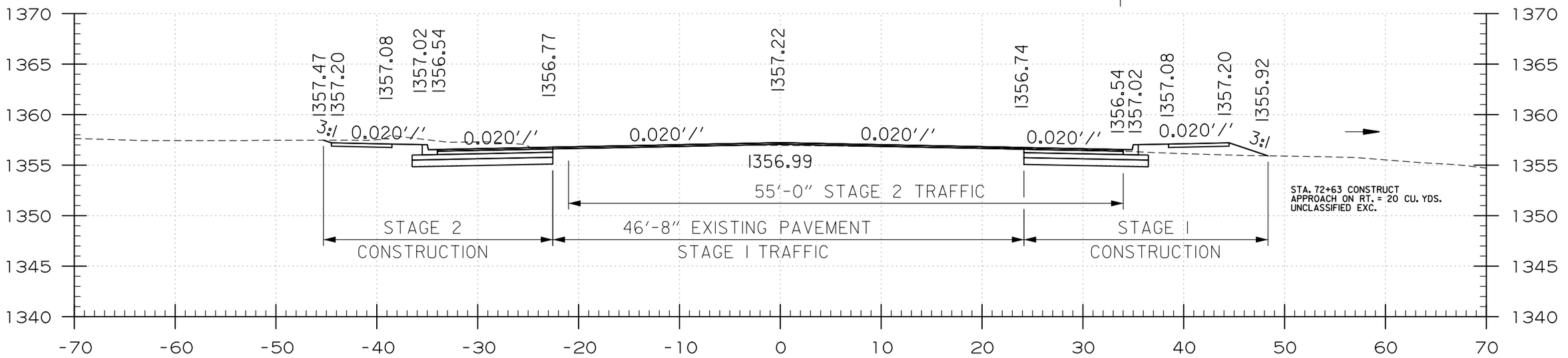
USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	288	320
		CROSS SECTIONS				

AREA CUT : 54.8
AREA FILL : 9.0

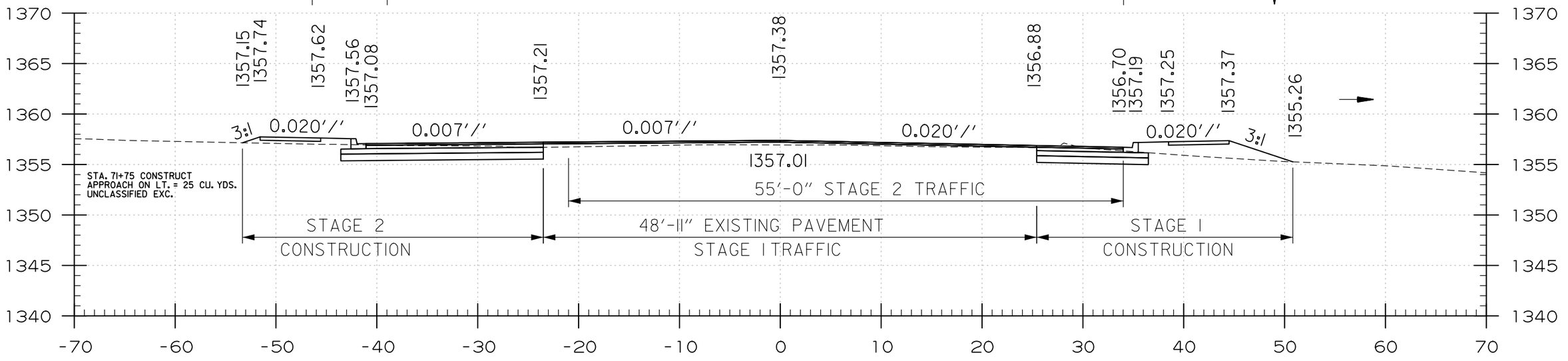
CUT VOLUME : 121
FILL VOLUME : 35



72+66.00
END TAPER LT

AREA CUT : 43.8
AREA FILL : 19.7

CUT VOLUME : 83
FILL VOLUME : 38

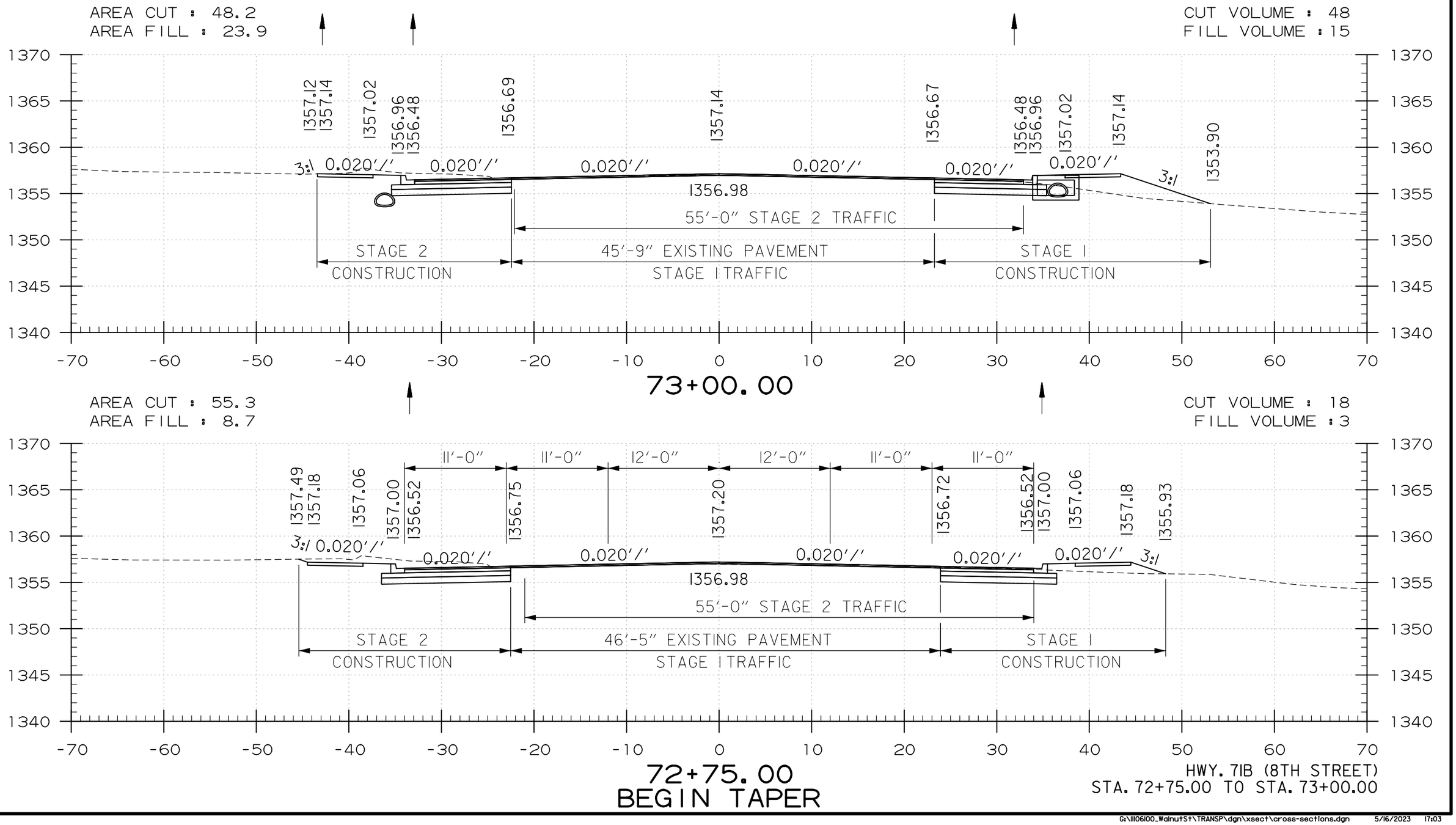


72+00.00

HWY. 71B (8TH STREET)
STA. 72+00.00 TO STA. 72+66.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	289	320
		CROSS SECTIONS				

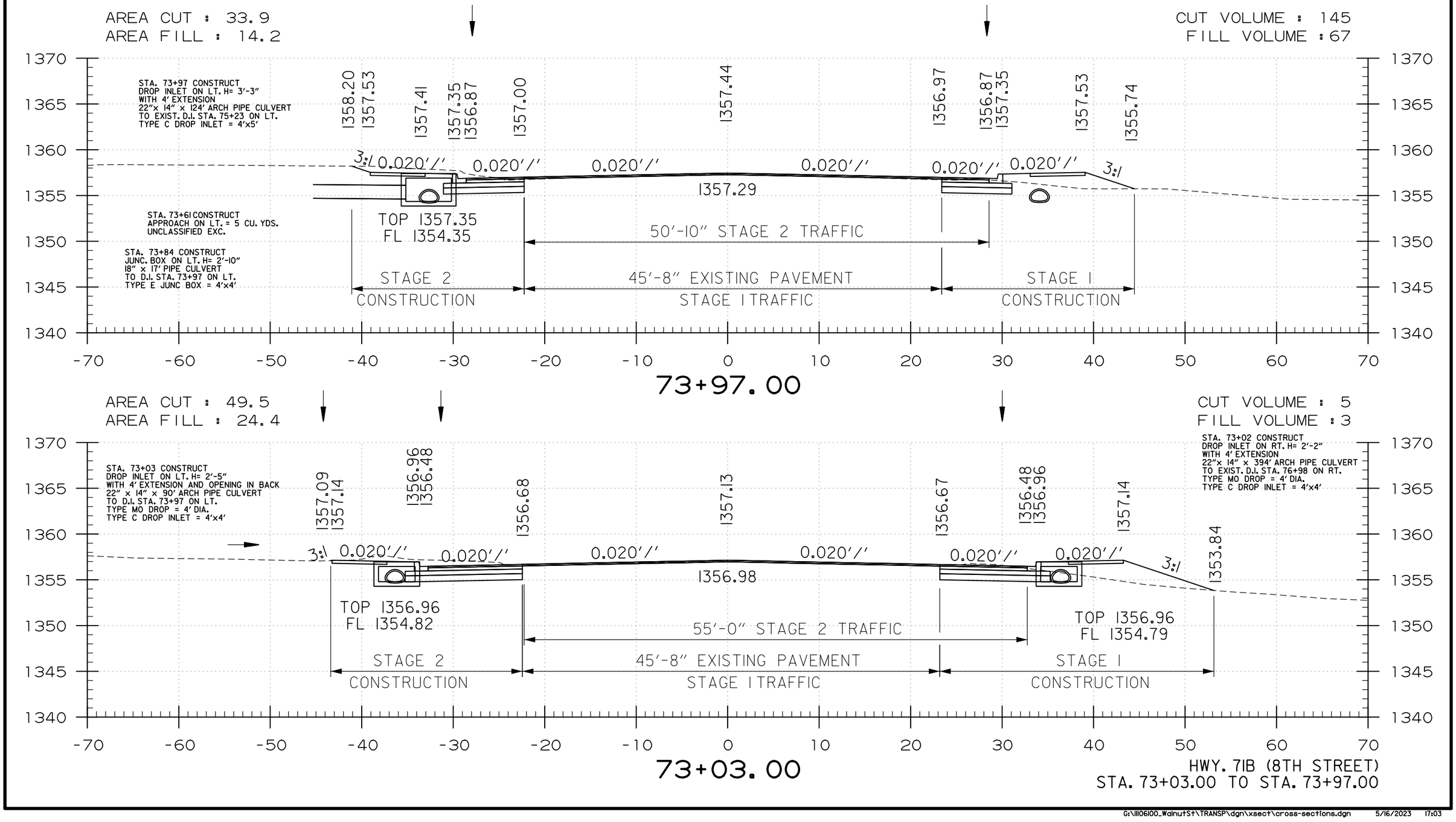


HWY. 71B (8TH STREET)
STA. 72+75.00 TO STA. 73+00.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

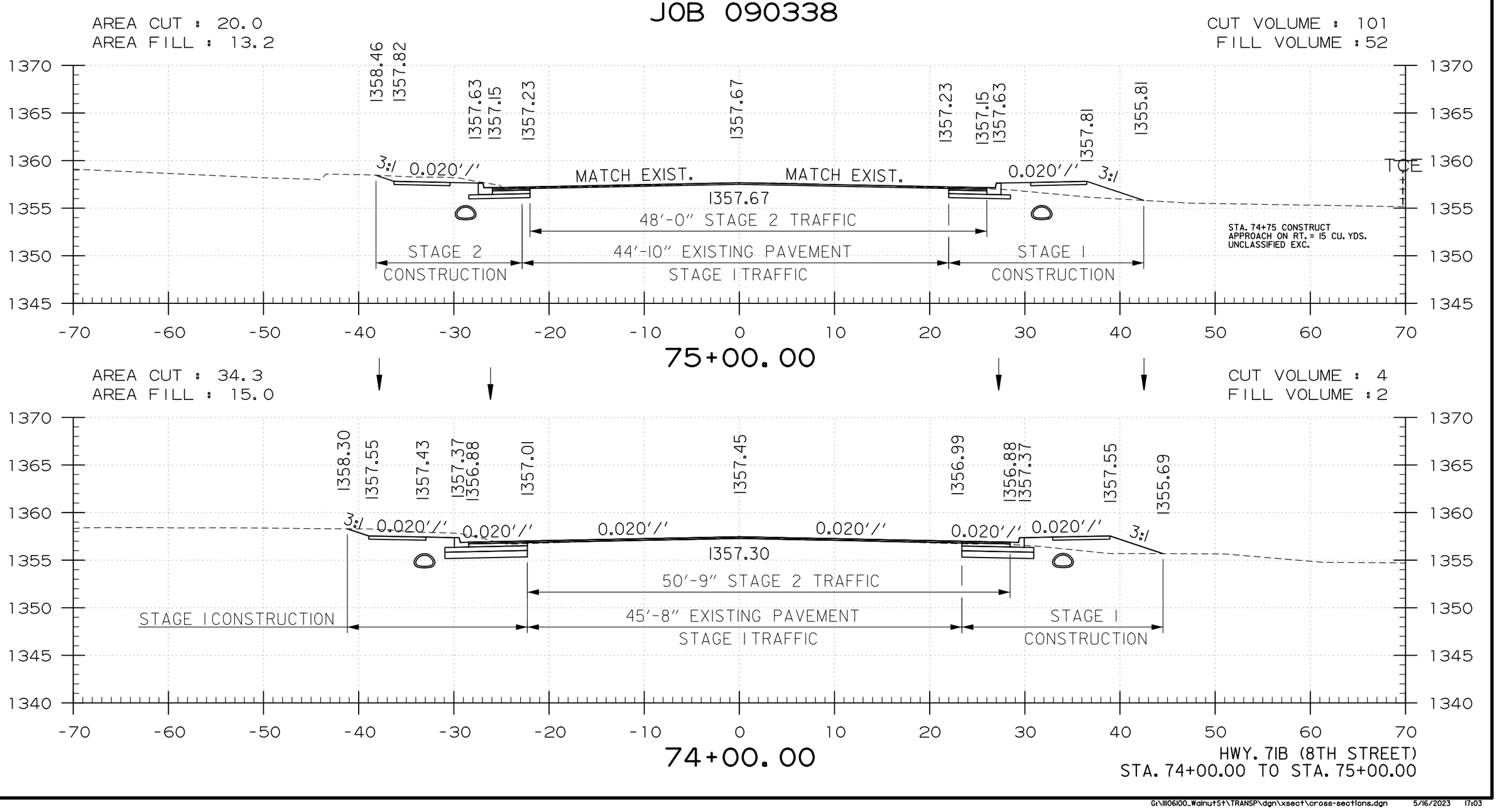
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	290	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	291	320
		CROSS SECTIONS				

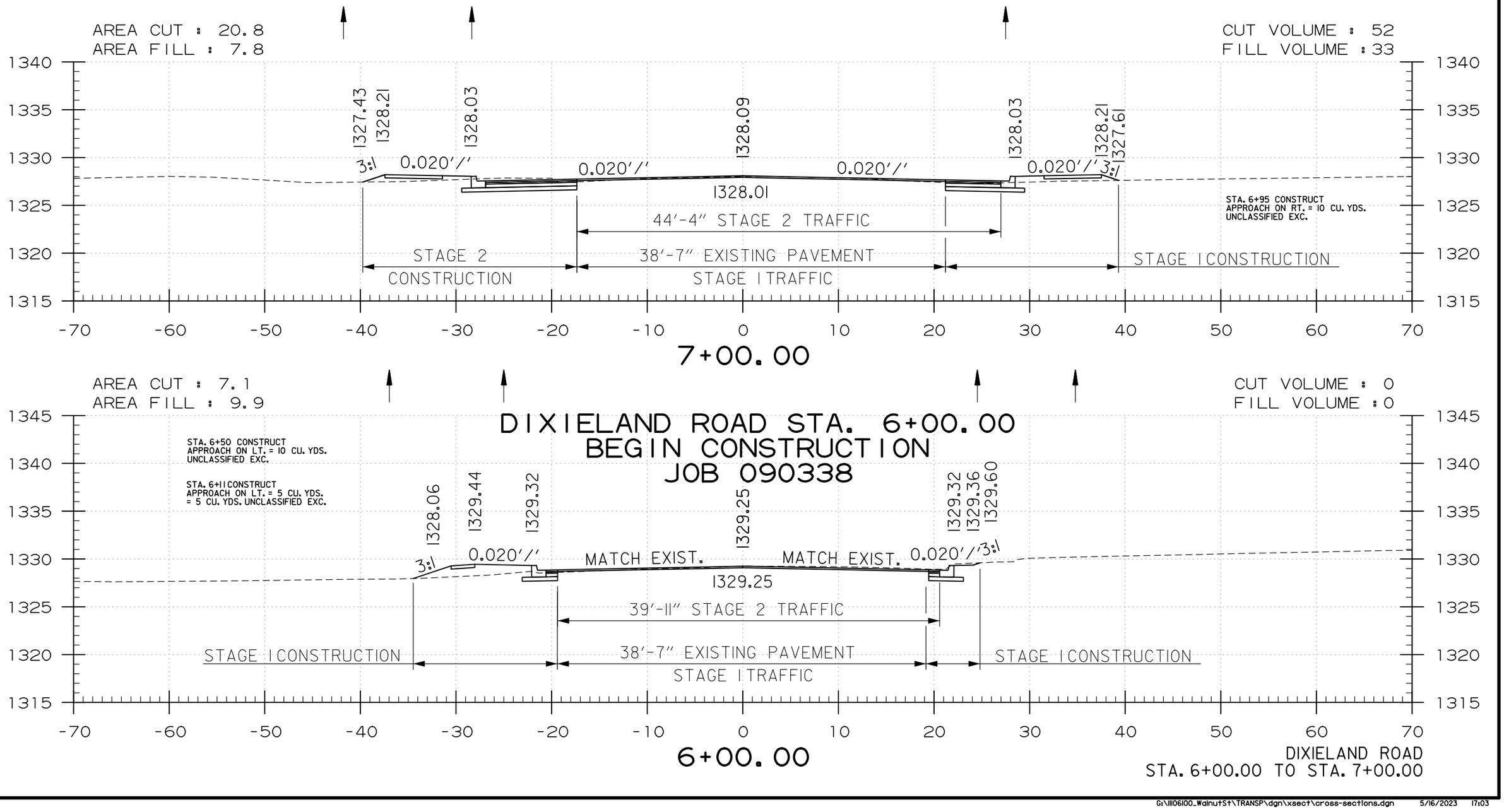
HWY. 71B STA. 75+00.00
END CONSTRUCTION
JOB 090338



USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

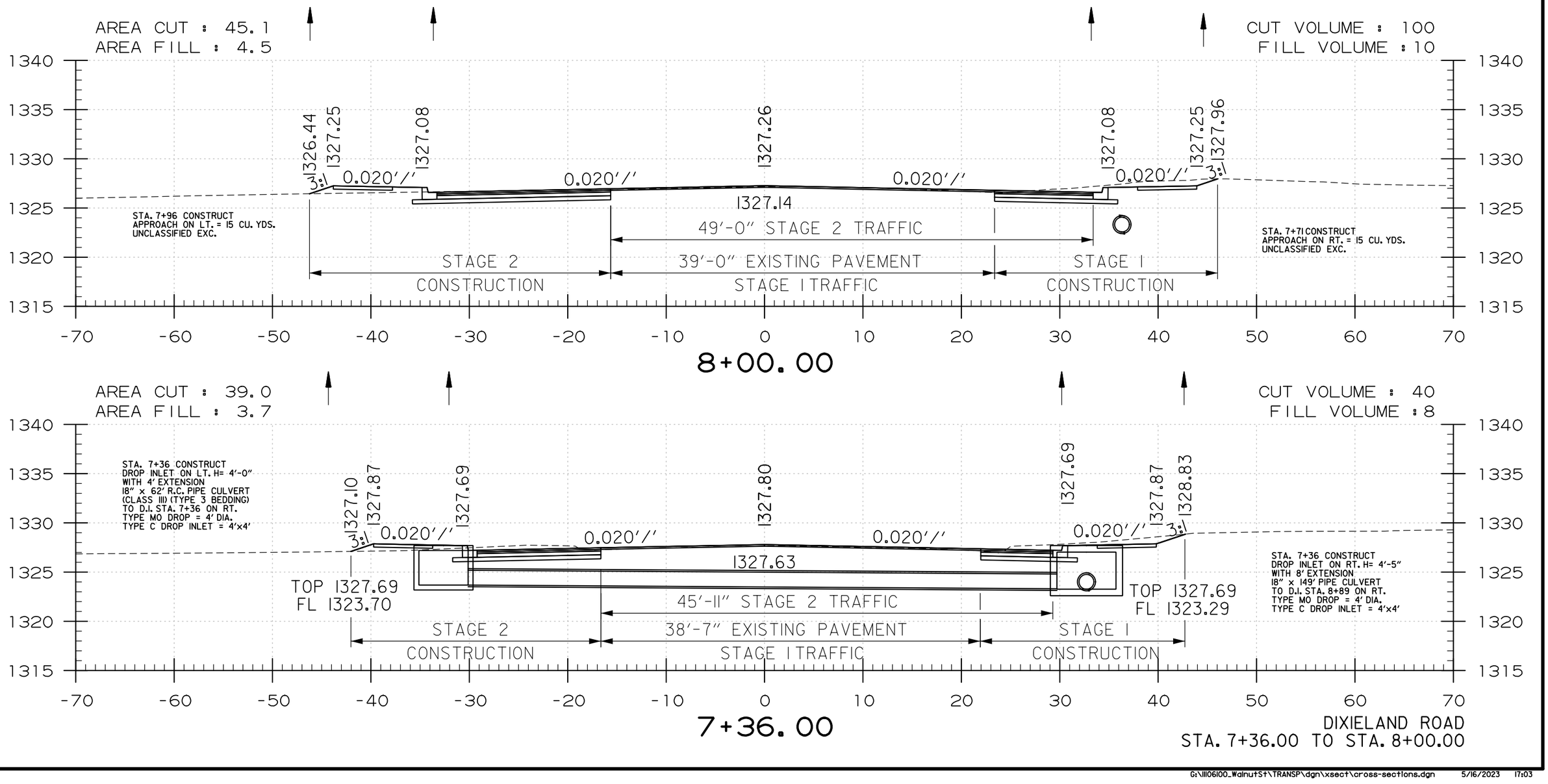
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	292	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	293	320
		CROSS SECTIONS				

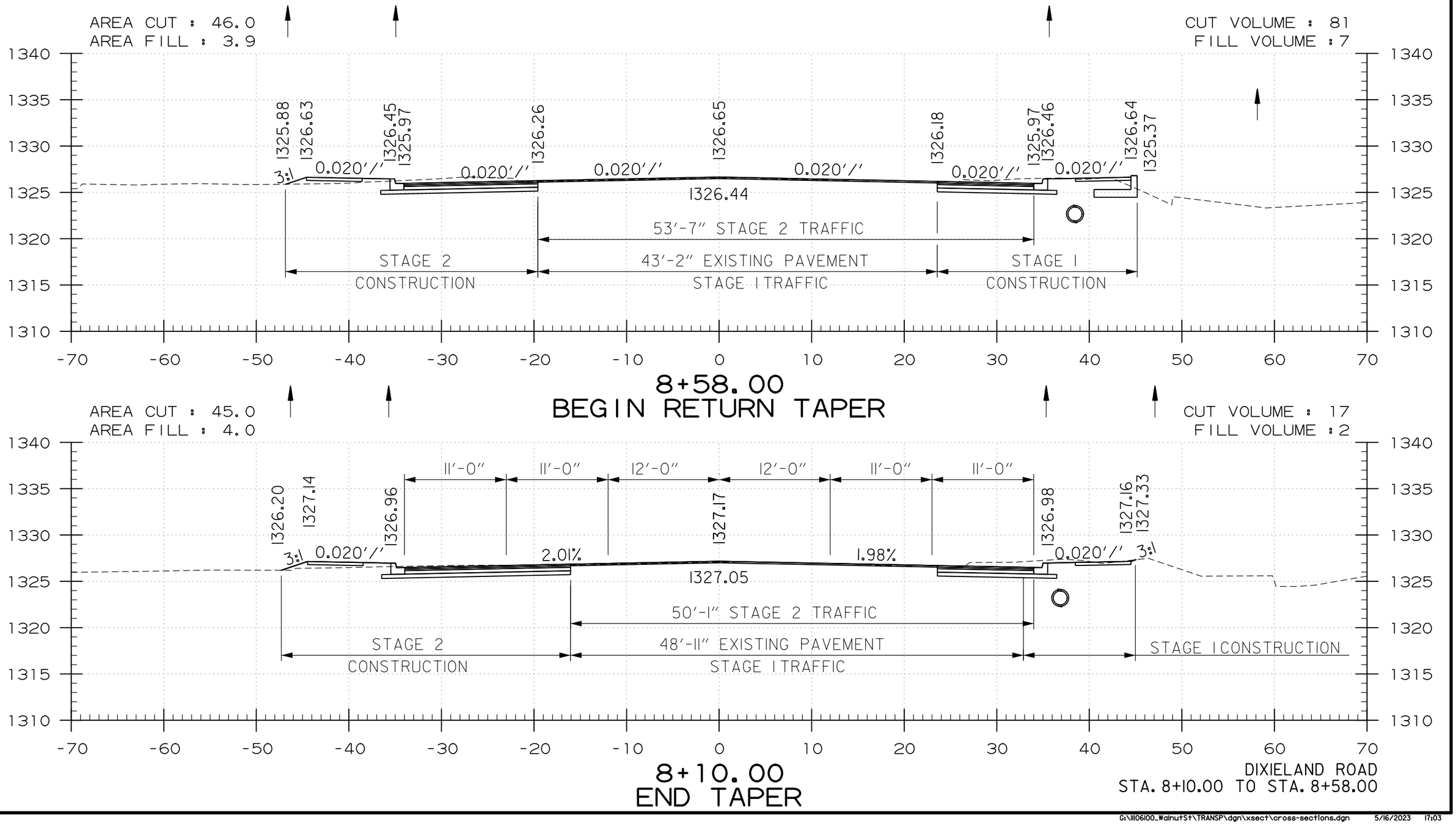


USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	294	320
		CROSS SECTIONS				

DIXIELAND RD. STA. 8+17 TO
HWY. 71B STA. 17+75 ON RT. CONSTRUCT
SIDEWALK (TYPE SPECIAL)
TURNED DOWN WALL H=3'-0" MAX.
WITH 146 LIN. FT. HAND RAILING



8+58.00
BEGIN RETURN TAPER

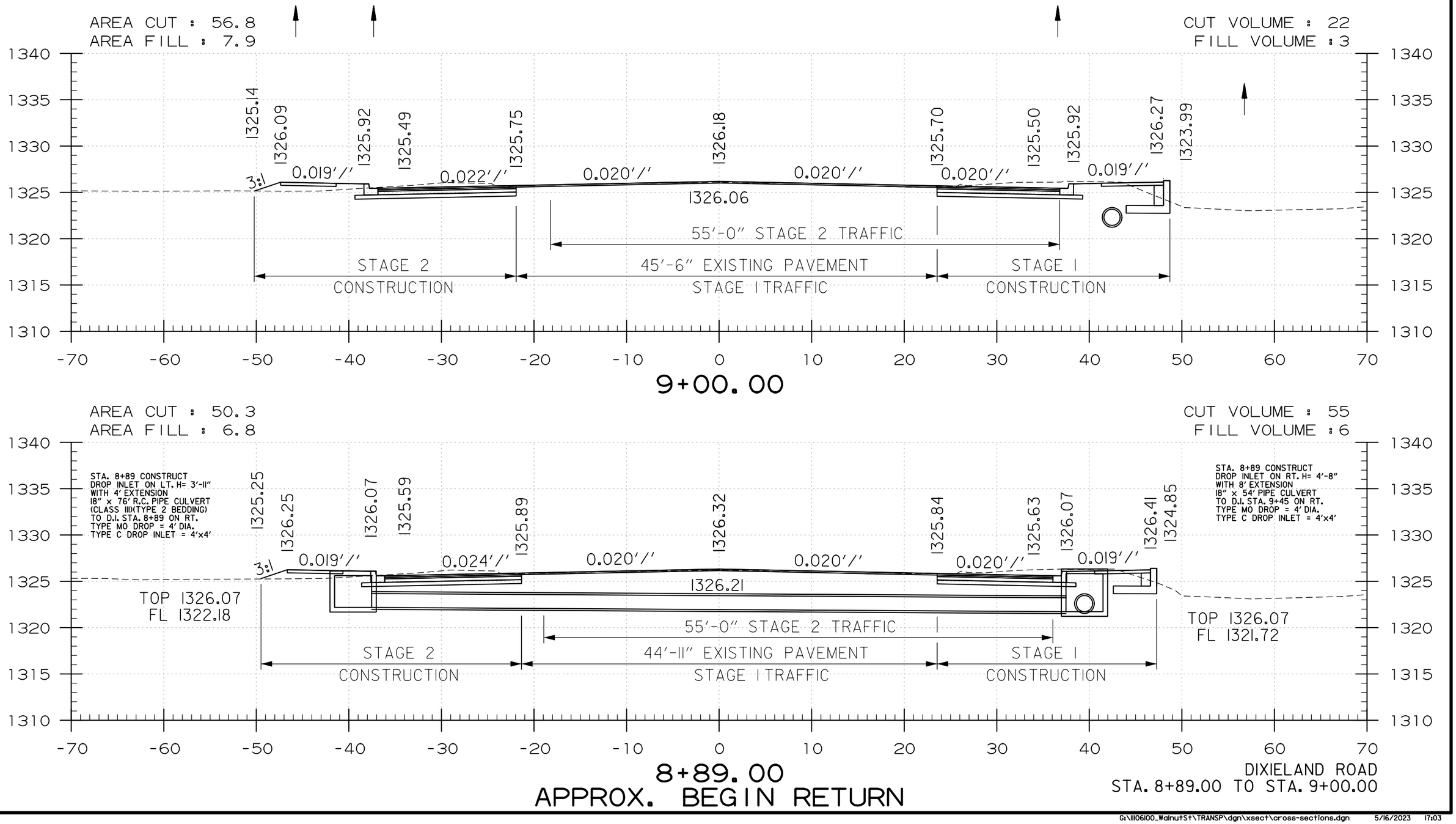
8+10.00
END TAPER

DIXIELAND ROAD
STA. 8+10.00 TO STA. 8+58.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	295	320
		CROSS SECTIONS				



9+00.00

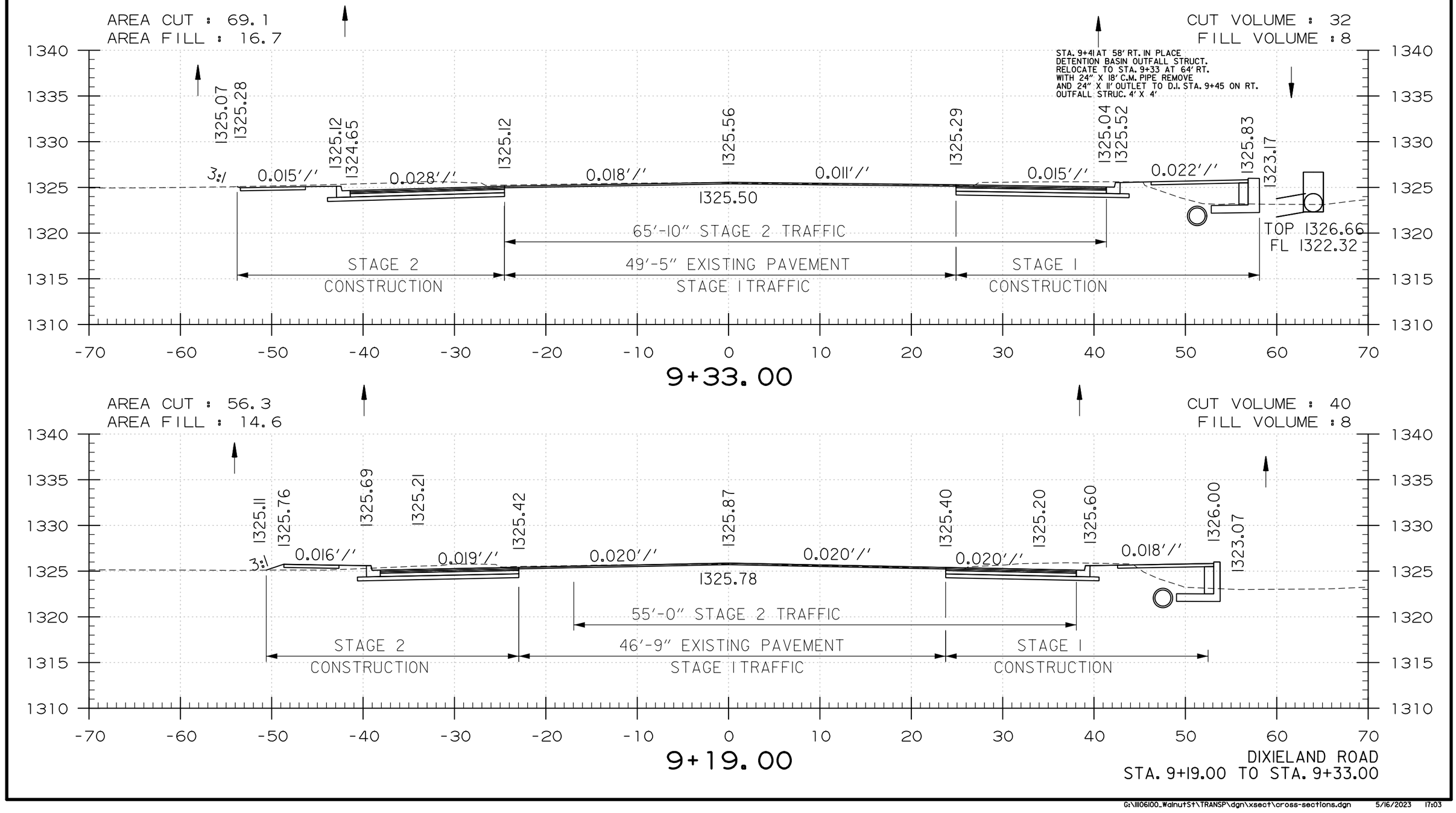
8+89.00
APPROX. BEGIN RETURN

DIXIELAND ROAD
STA. 8+89.00 TO STA. 9+00.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	296	320
		CROSS SECTIONS				



USER: JJ5206
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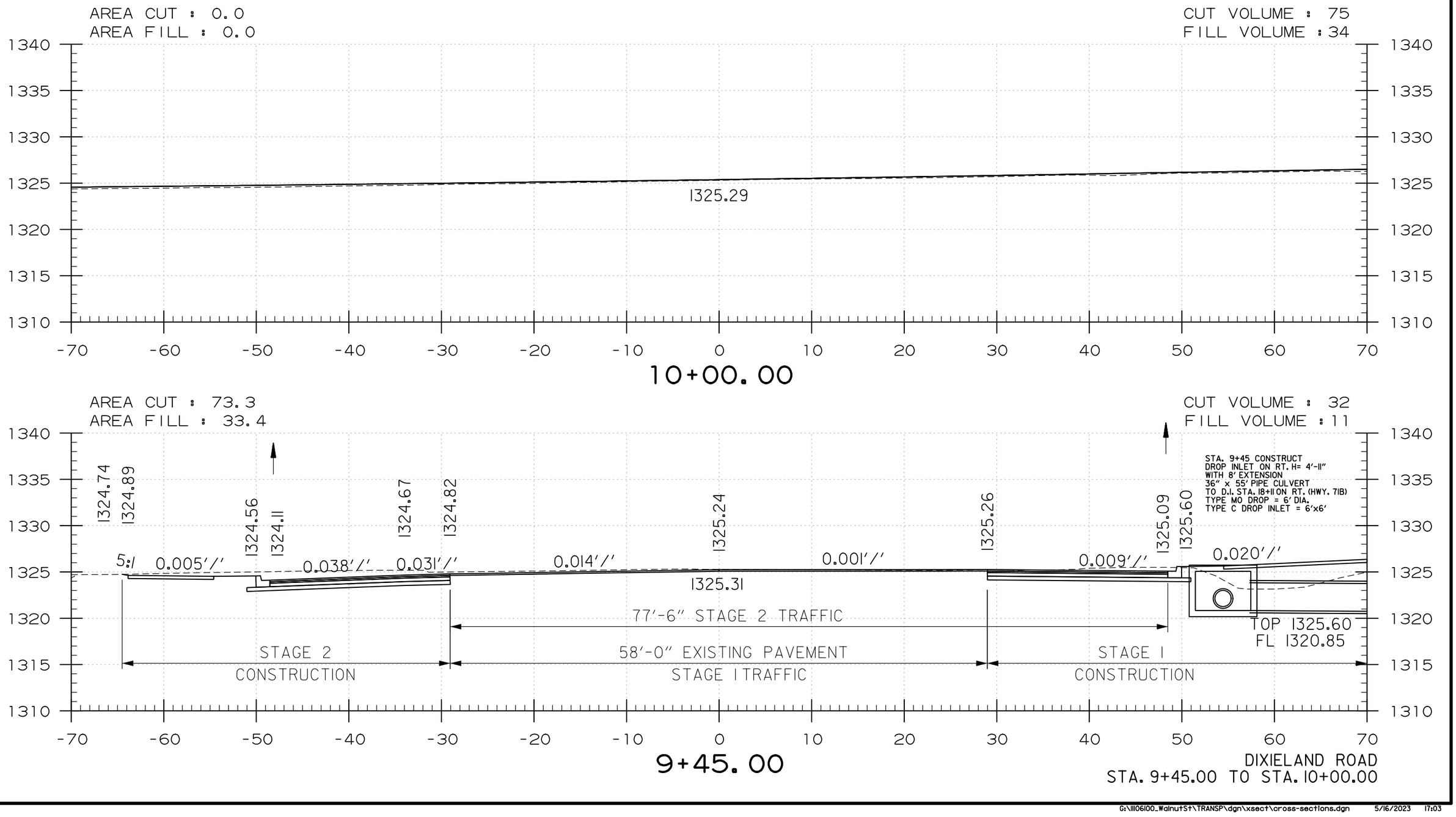
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	297	320
		CROSS SECTIONS				



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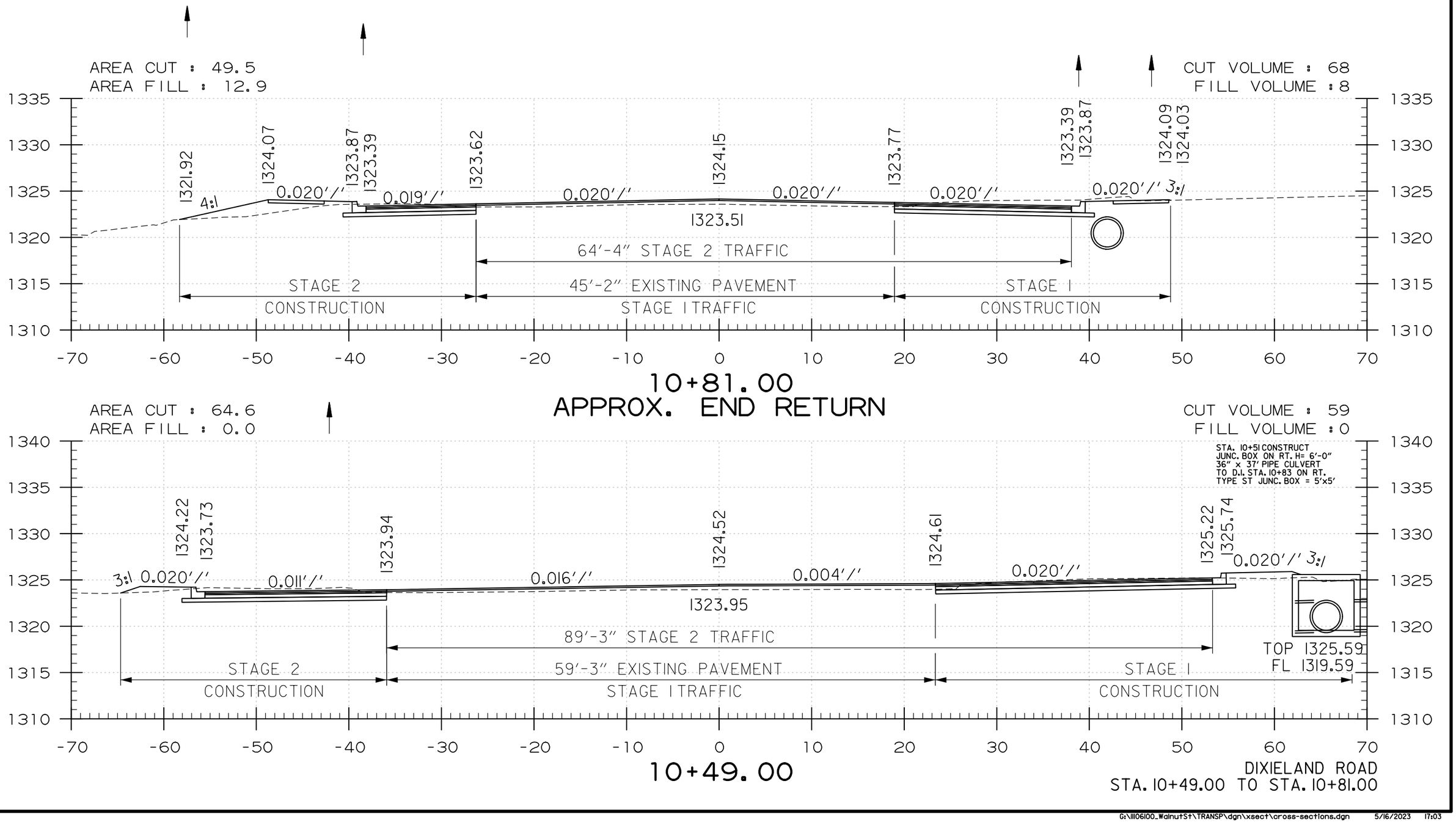
SCALE: H0

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	298	320
		CROSS SECTIONS				



USER: JJ5206
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PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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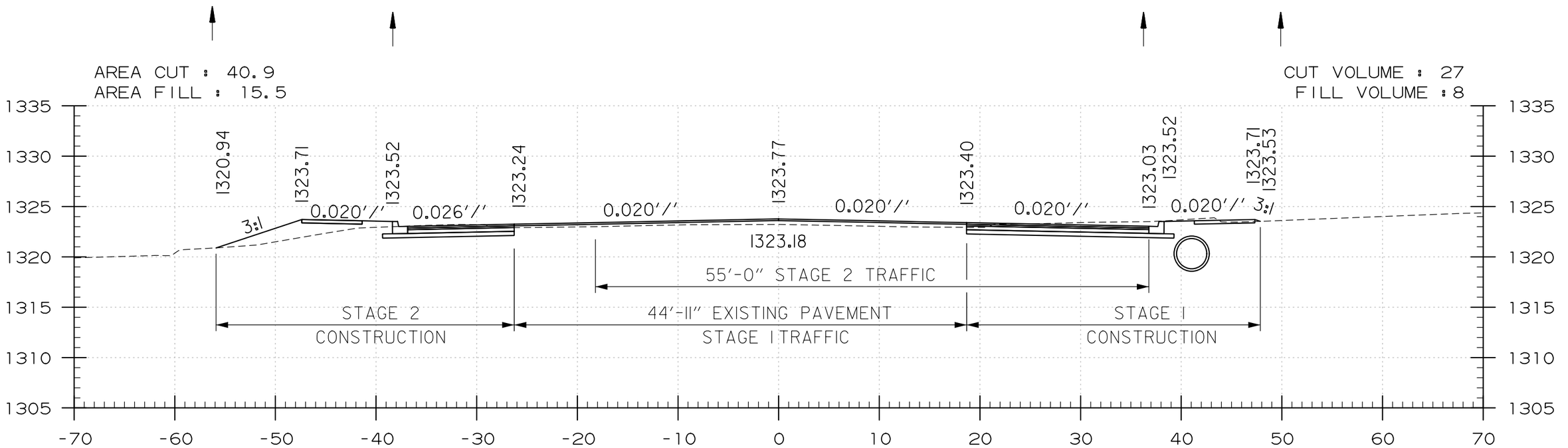
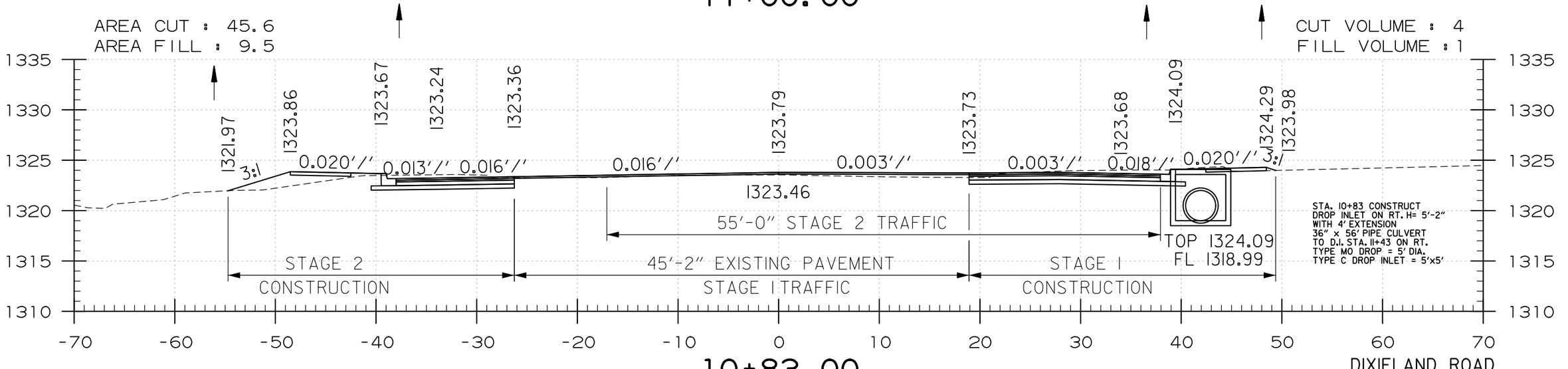
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	299	320
		CROSS SECTIONS				



11+00.00

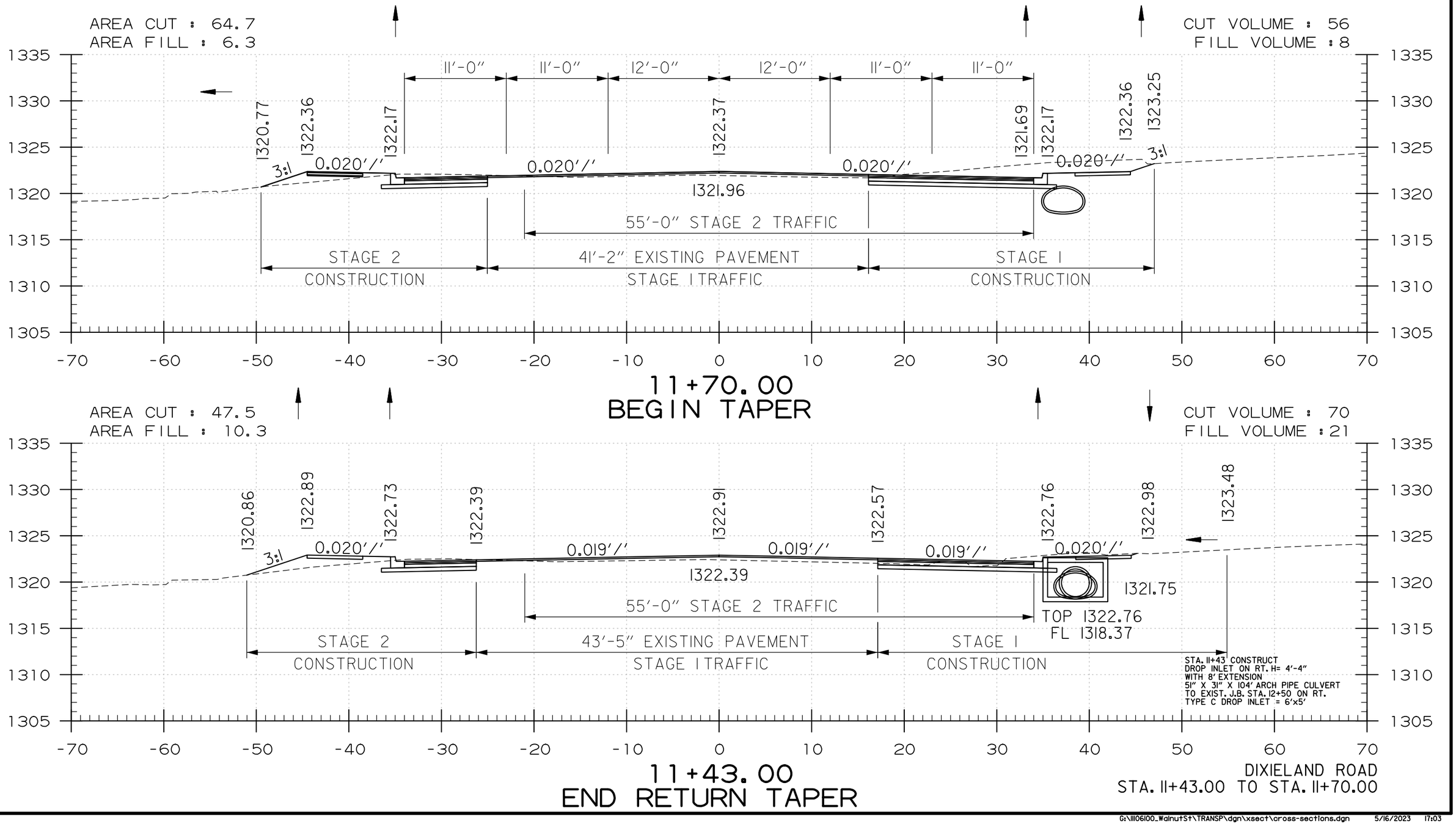


10+83.00

DIXIELAND ROAD
STA. 10+83.00 TO STA. 11+00.00

USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1in0

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	300	320
		CROSS SECTIONS				



USER: JJ5206
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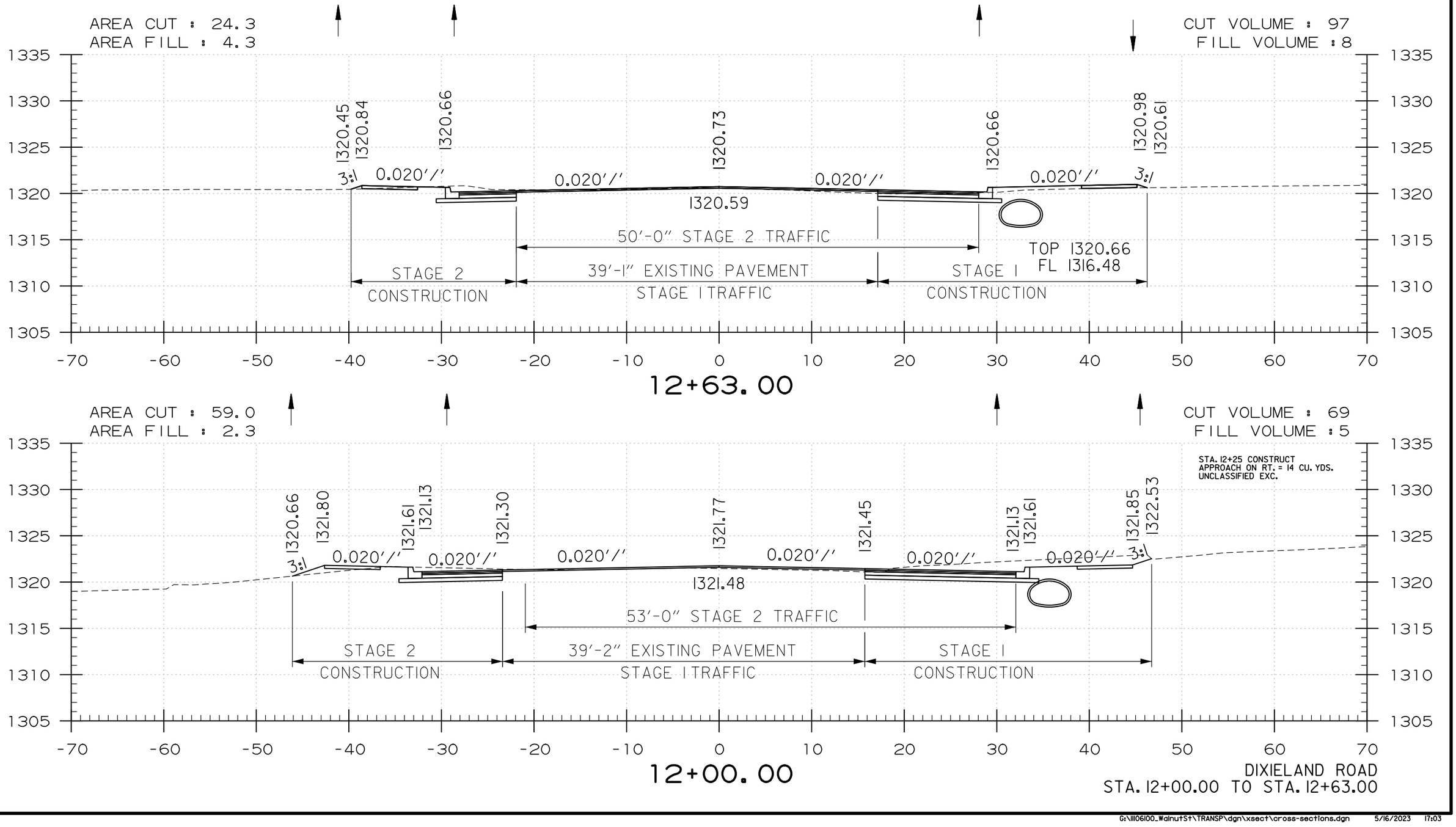
MODEL: CROSS SECTIONS
SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	301	320
		CROSS SECTIONS				



USER: JJ5206
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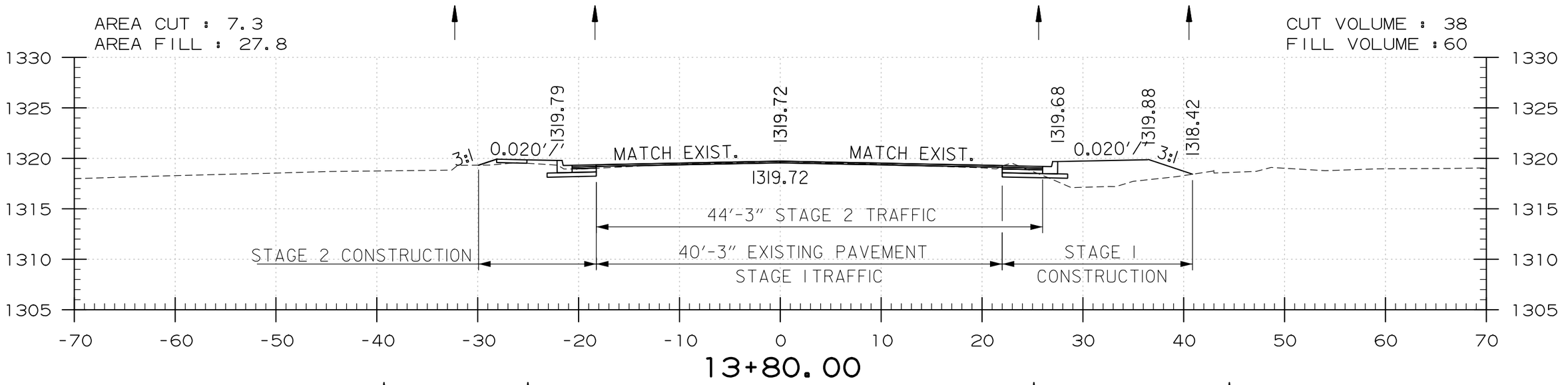
SCALE: 1:10

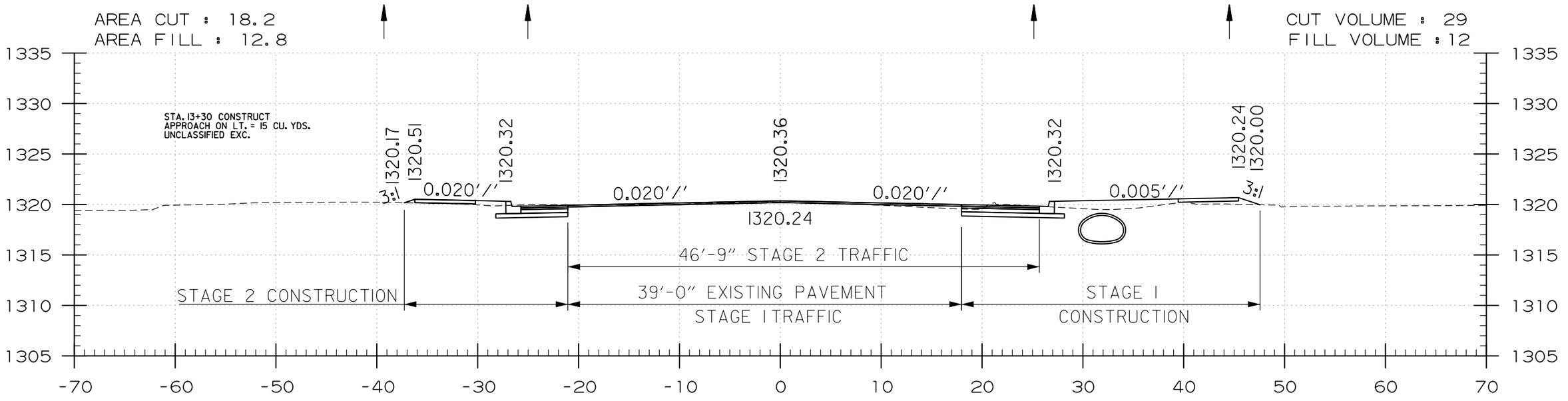
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	302	320
		CROSS SECTIONS				

DIXIELAND ROAD STA. 13+80.00
END CONSTRUCTION
JOB 090338



13+80.00



13+00.00

DIXIELAND ROAD
STA. 13+00.00 TO STA. 13+80.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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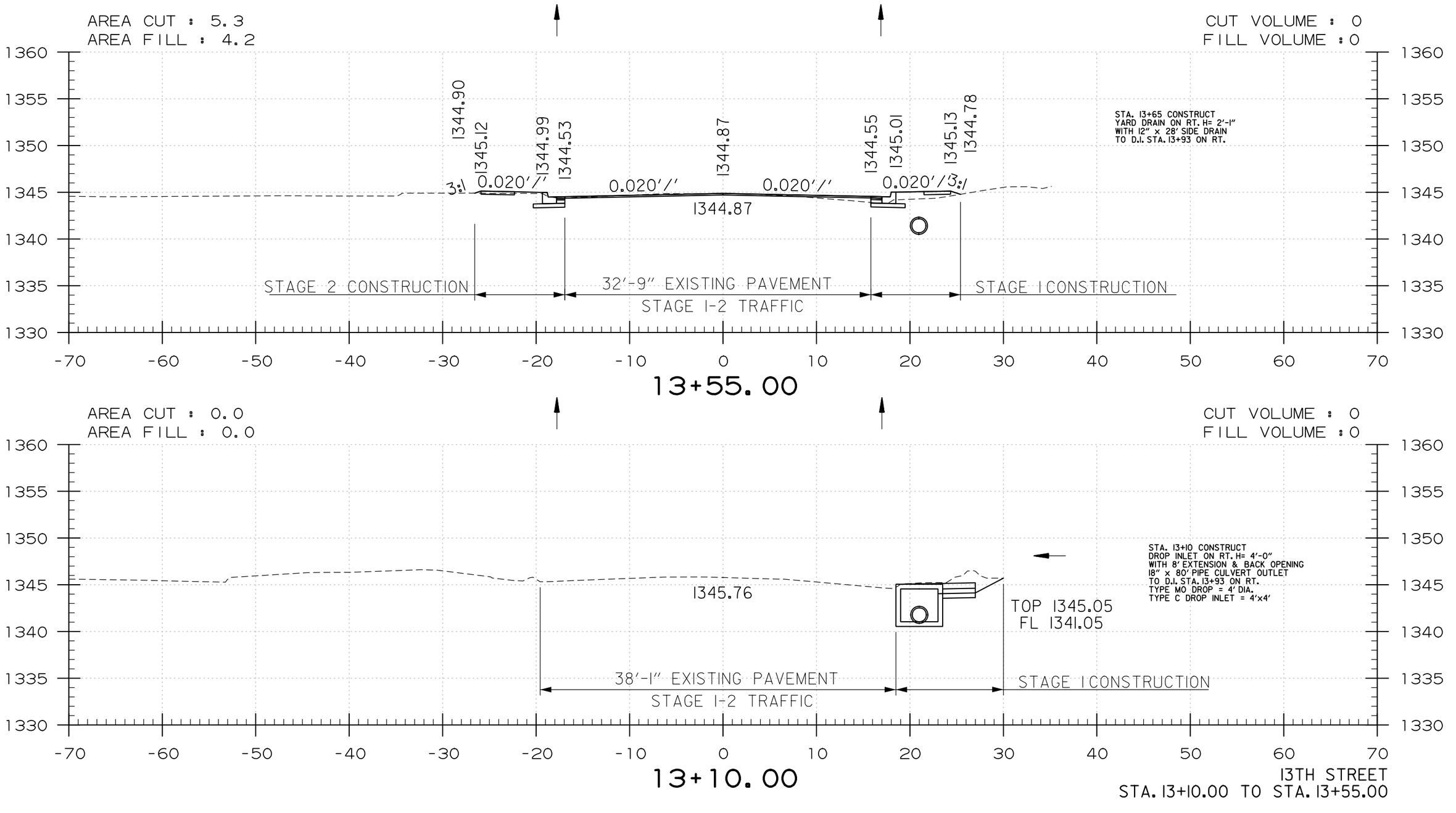
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	303	320
		CROSS SECTIONS				

13TH STREET STA. 13+55.00
BEGIN CONSTRUCTION
JOB 090338



13TH STREET
STA. 13+10.00 TO STA. 13+55.00

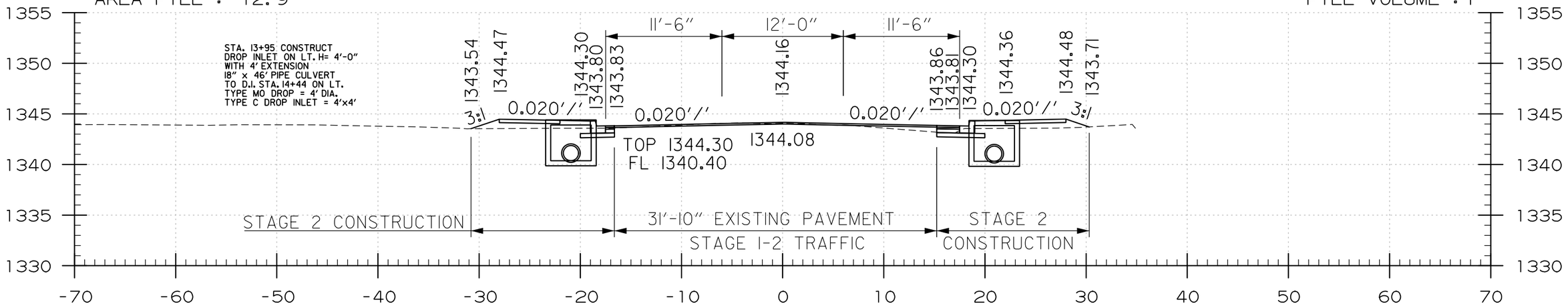
USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	304	320
		CROSS SECTIONS				

DRIVEWAY PROFILE DATA NOT SHOWN
ON THESE CROSS SECTIONS. REFER TO
DRIVEWAY PROFILE SHEETS (TYP.).

AREA CUT : 5.2
AREA FILL : 12.9

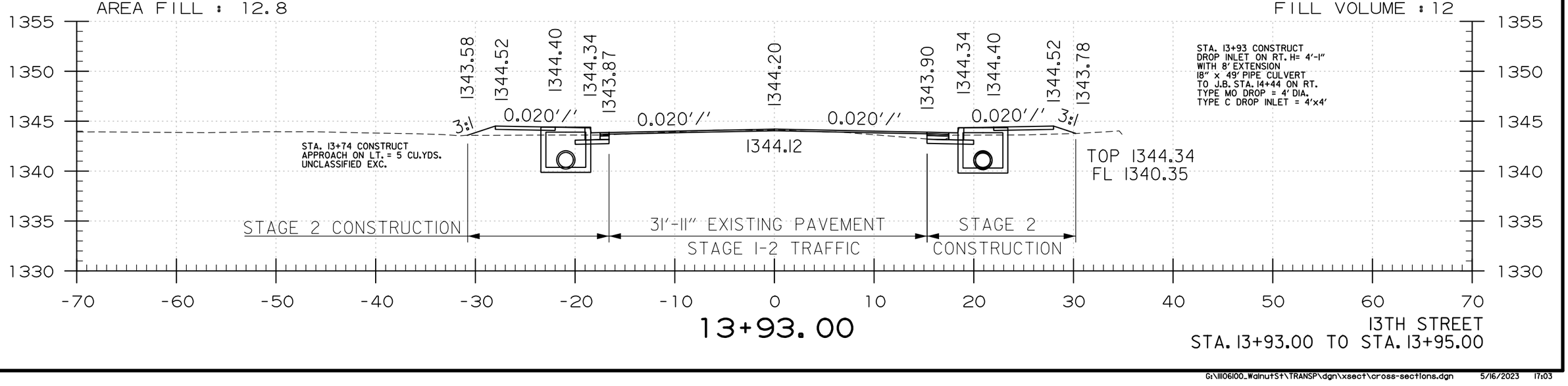
CUT VOLUME : 0
FILL VOLUME : 1



13+95.00

AREA CUT : 5.2
AREA FILL : 12.8

CUT VOLUME : 7
FILL VOLUME : 12



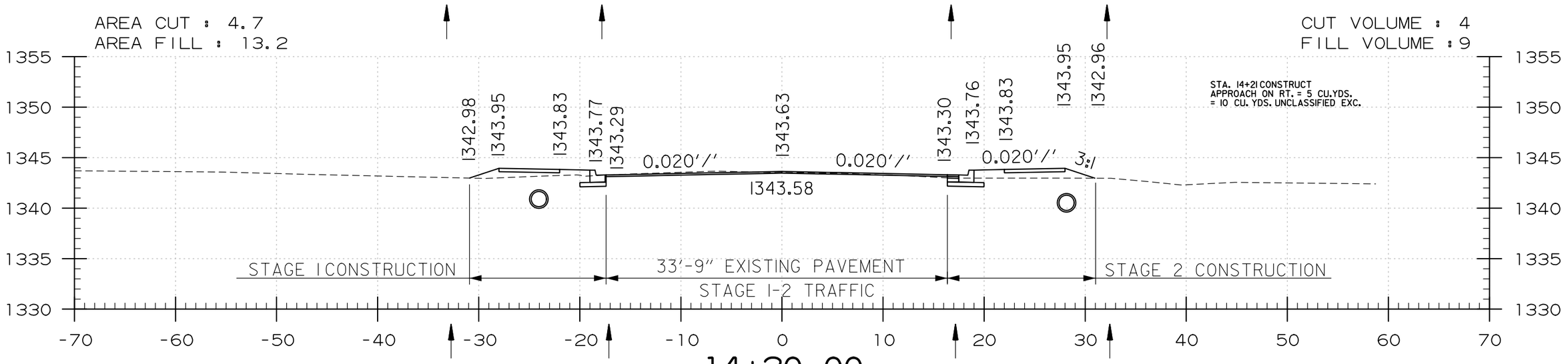
13+93.00

13TH STREET
STA. 13+93.00 TO STA. 13+95.00

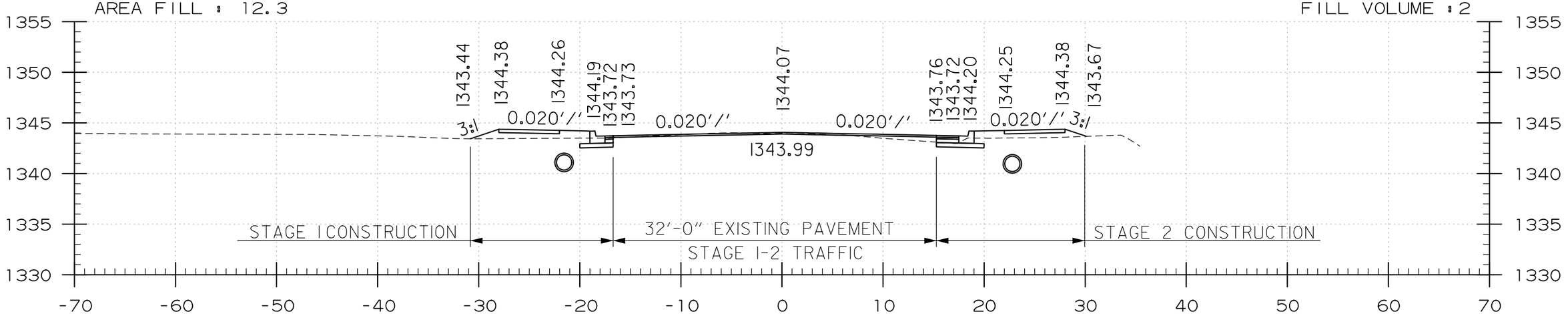
USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	305	320
		CROSS SECTIONS				



14+20.00
APPROX. BEGIN RETURN



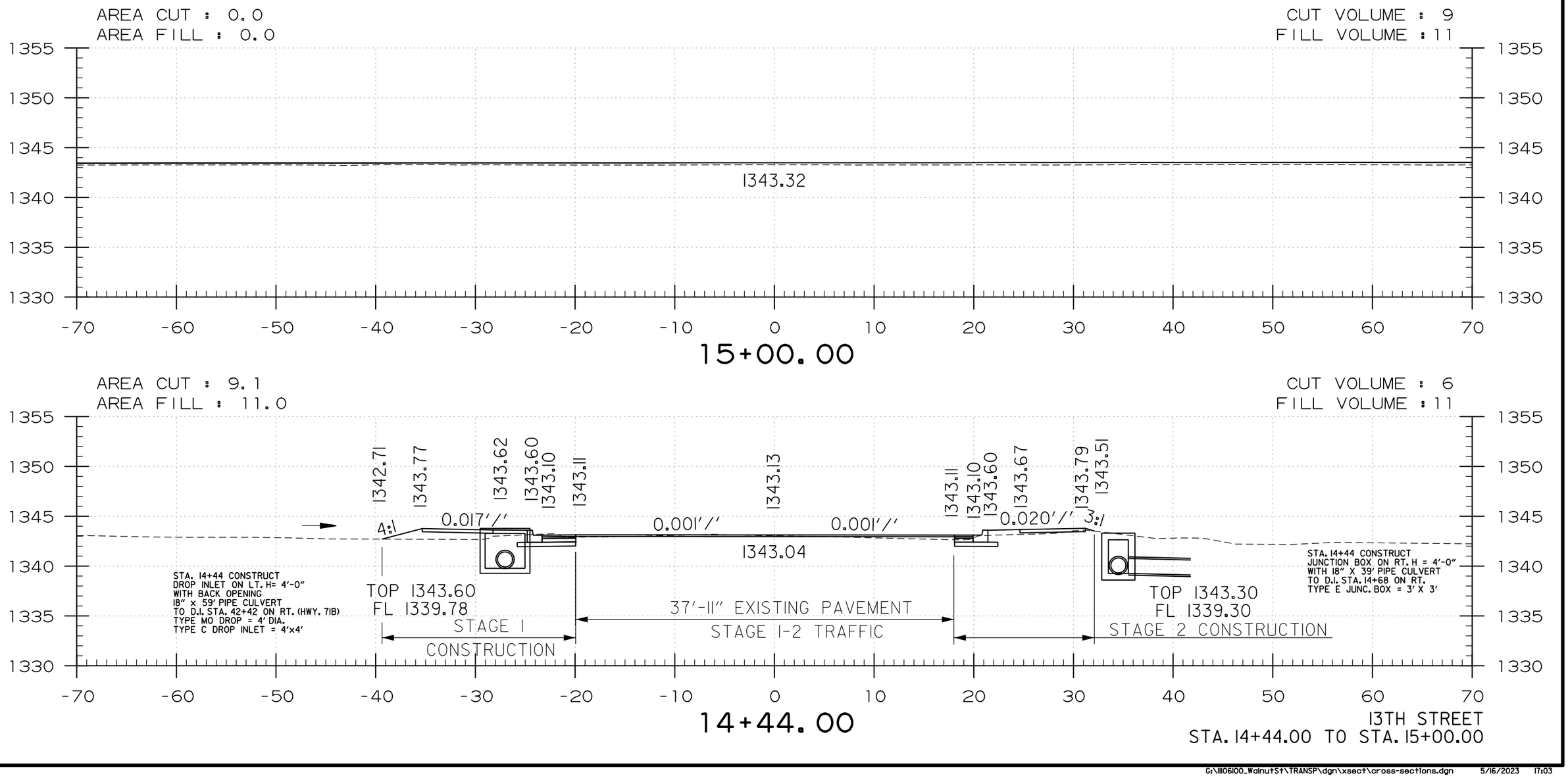
14+00.00

13TH STREET
STA. 14+00.00 TO STA. 14+20.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	306	320
		CROSS SECTIONS				



USER: JJ5206
DESIGN FILE: G:\111061100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
SCALE: 1:10
MODEL: CROSS SECTIONS

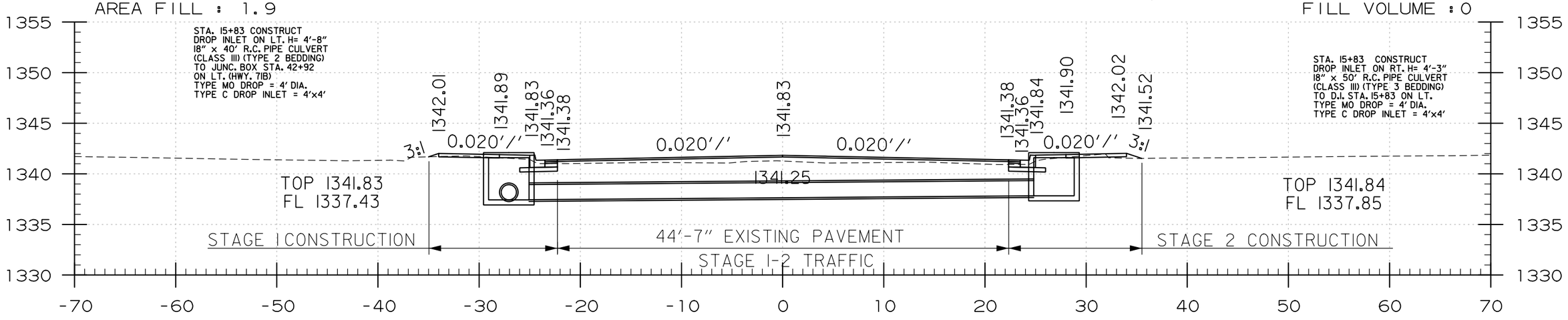
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	307	320
		CROSS SECTIONS				

AREA CUT : 5.1
AREA FILL : 1.9

CUT VOLUME : 1
FILL VOLUME : 0

STA. 15+83 CONSTRUCT
DROP INLET ON LT. H= 4'-8"
18" x 40' R.C. PIPE CULVERT
(CLASS III) (TYPE 2 BEDDING)
TO JUNC. BOX STA. 42+92
ON LT. (HWY. 71B)
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'

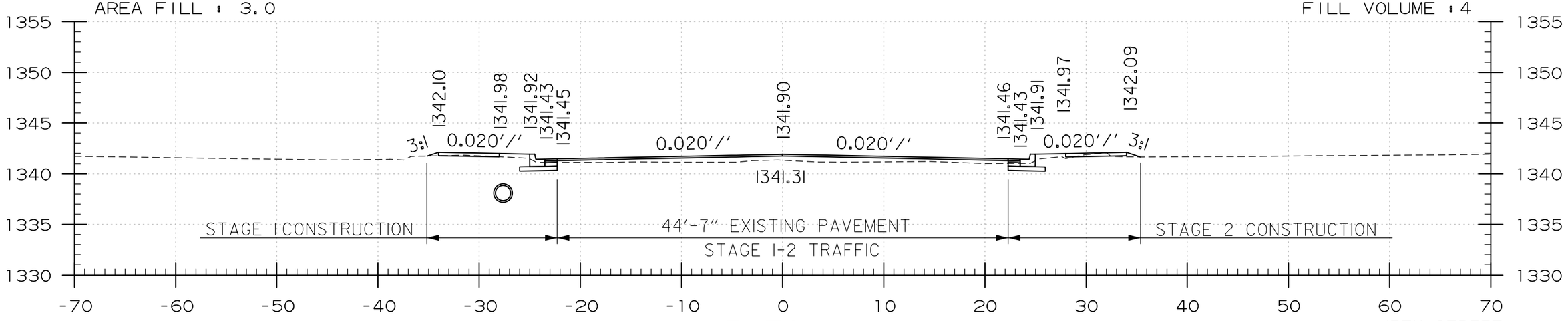
STA. 15+83 CONSTRUCT
DROP INLET ON RT. H= 4'-3"
18" x 50' R.C. PIPE CULVERT
(CLASS III) (TYPE 3 BEDDING)
TO D.I. STA. 15+83 ON LT.
TYPE MO DROP = 4' DIA.
TYPE C DROP INLET = 4'x4'



15+83.00

AREA CUT : 5.2
AREA FILL : 3.0

CUT VOLUME : 8
FILL VOLUME : 4

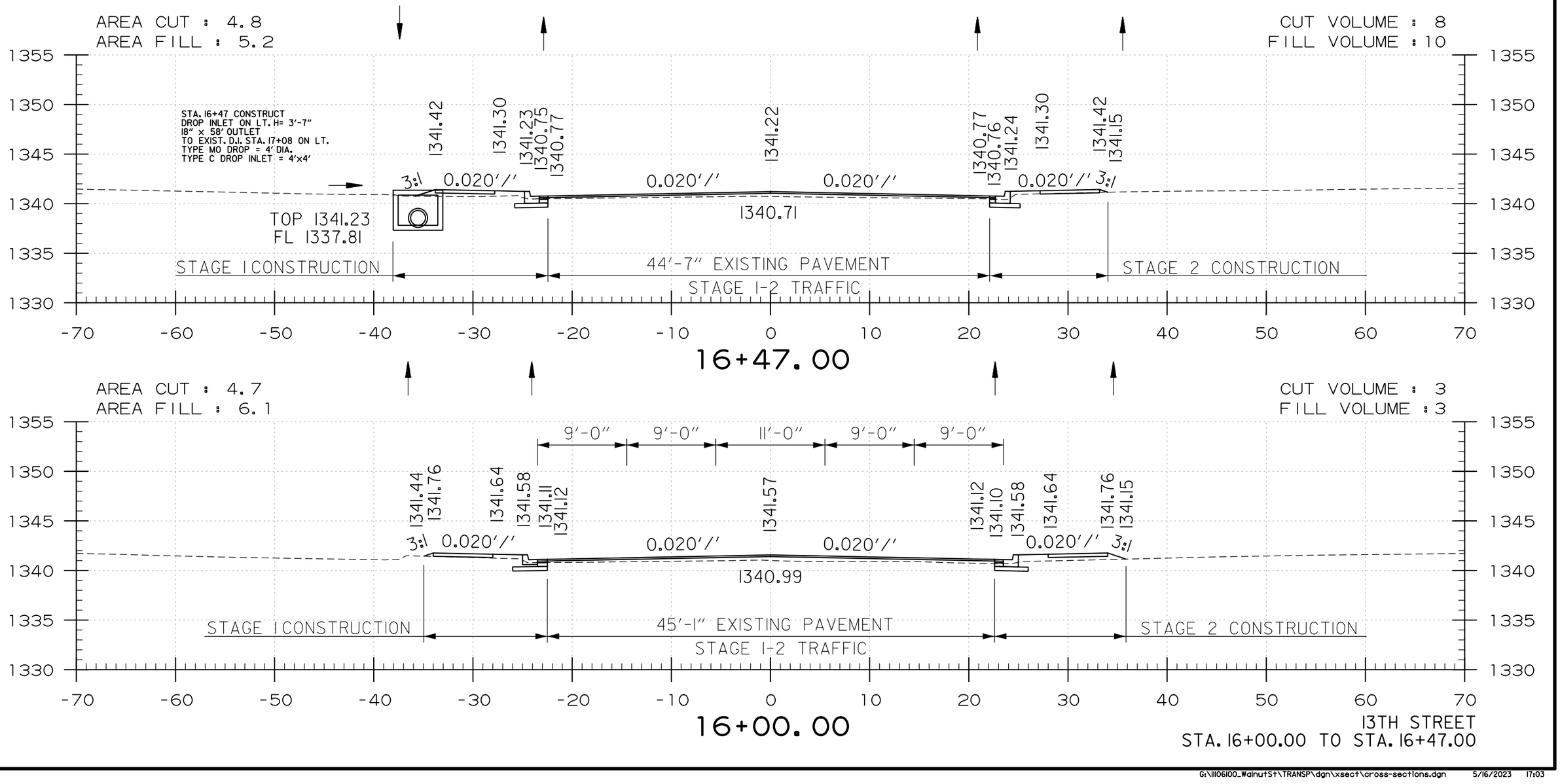


15+79.00
APPROX. END RETURN

13TH STREET
STA. 15+79.00 TO STA. 15+83.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	308	320
		CROSS SECTIONS				



USER: JJ5206
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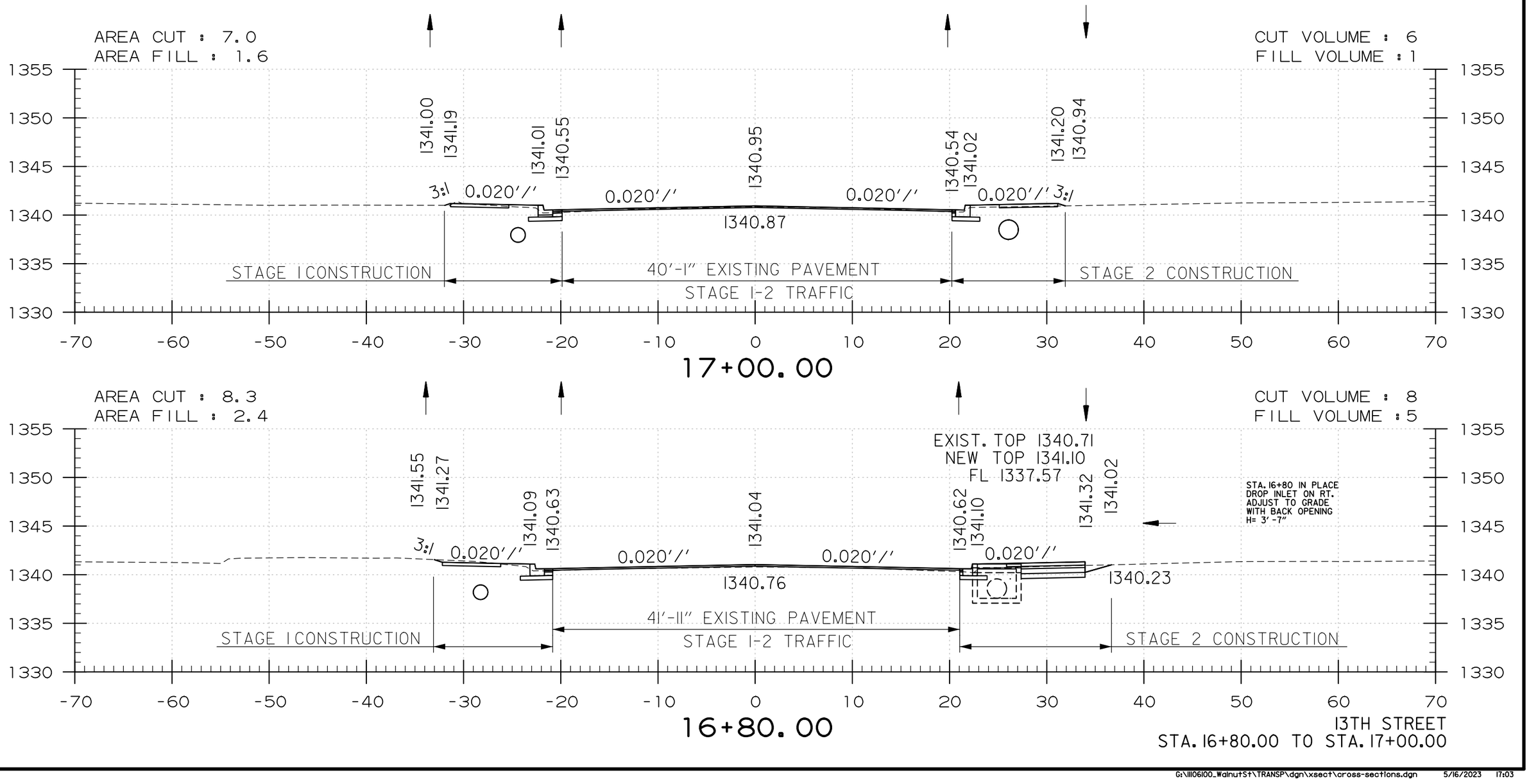
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	309	320
		CROSS SECTIONS				



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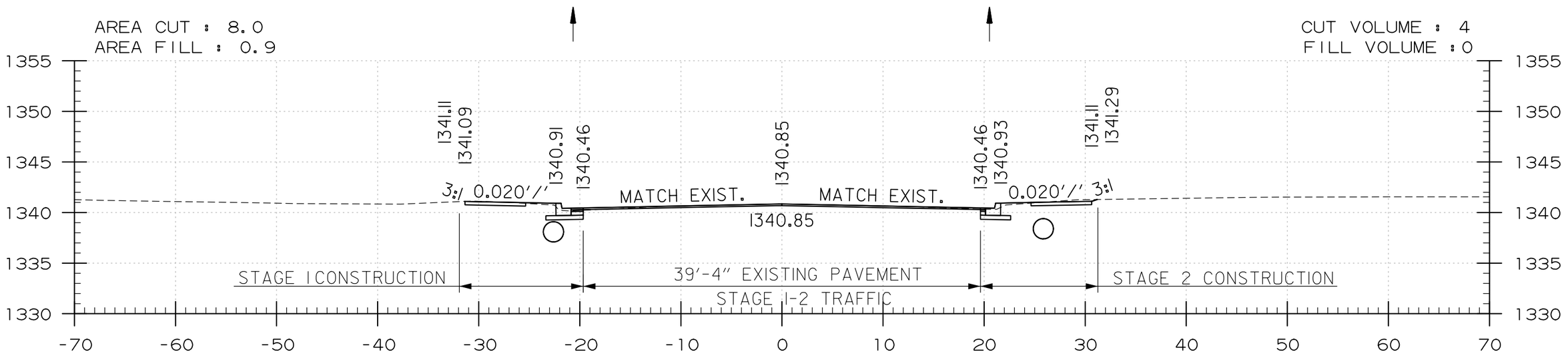
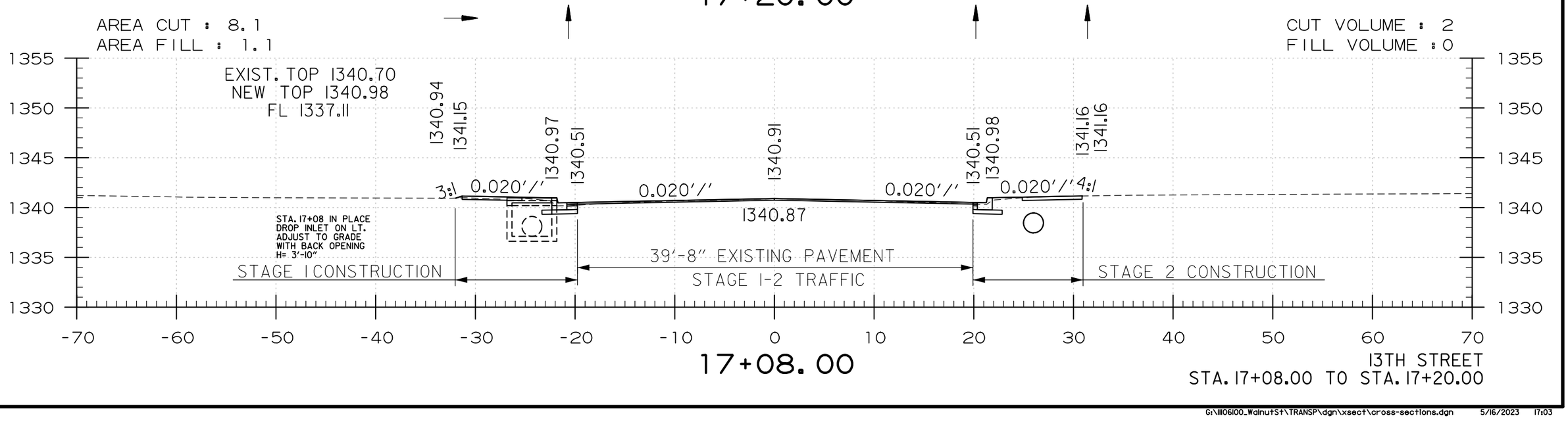
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	310	320
		CROSS SECTIONS				

13TH STREET STA. 17+20.00
END CONSTRUCTION
JOB 090338





13TH STREET
STA. 17+08.00 TO STA. 17+20.00

USER: JJ5206
DESIGN FILE: G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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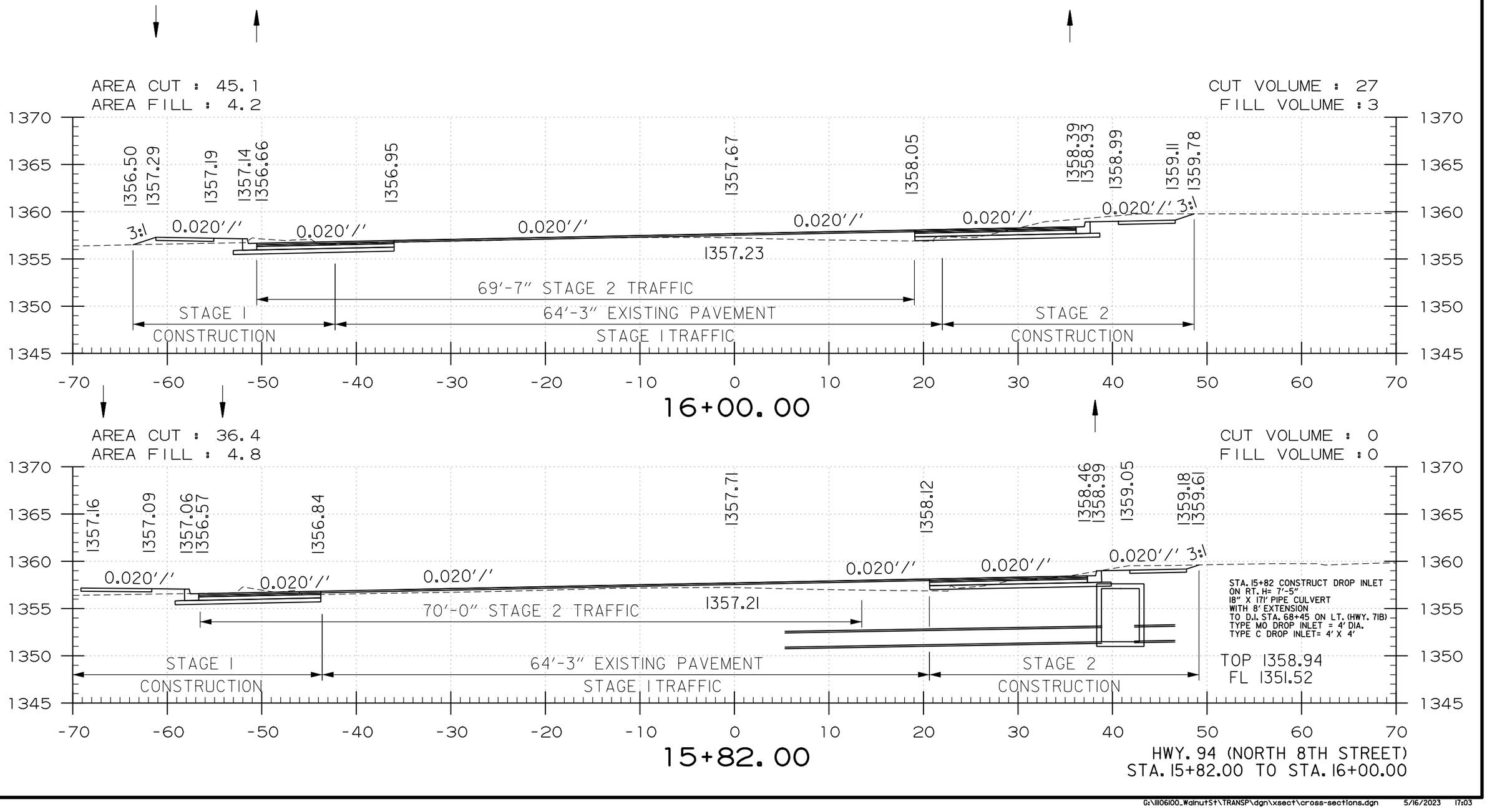
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	311	320
		CROSS SECTIONS				



HWY. 94 (NORTH 8TH STREET)
STA. 15+82.00 TO STA. 16+00.00

USER: JJ5206
DESIGN FILE: G:\II06100_Walnut St\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

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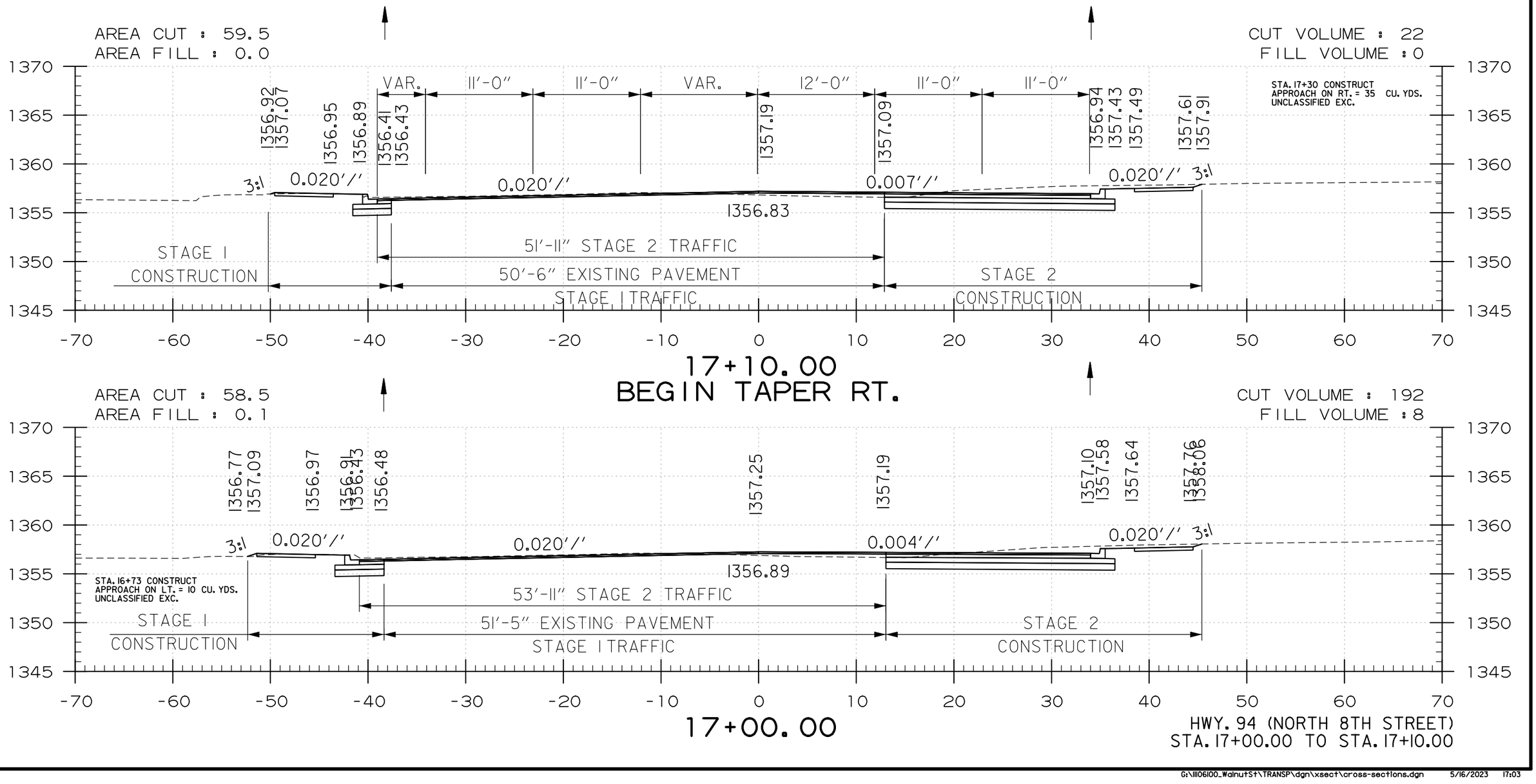
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	312	320
		CROSS SECTIONS				



USER: JJ5206
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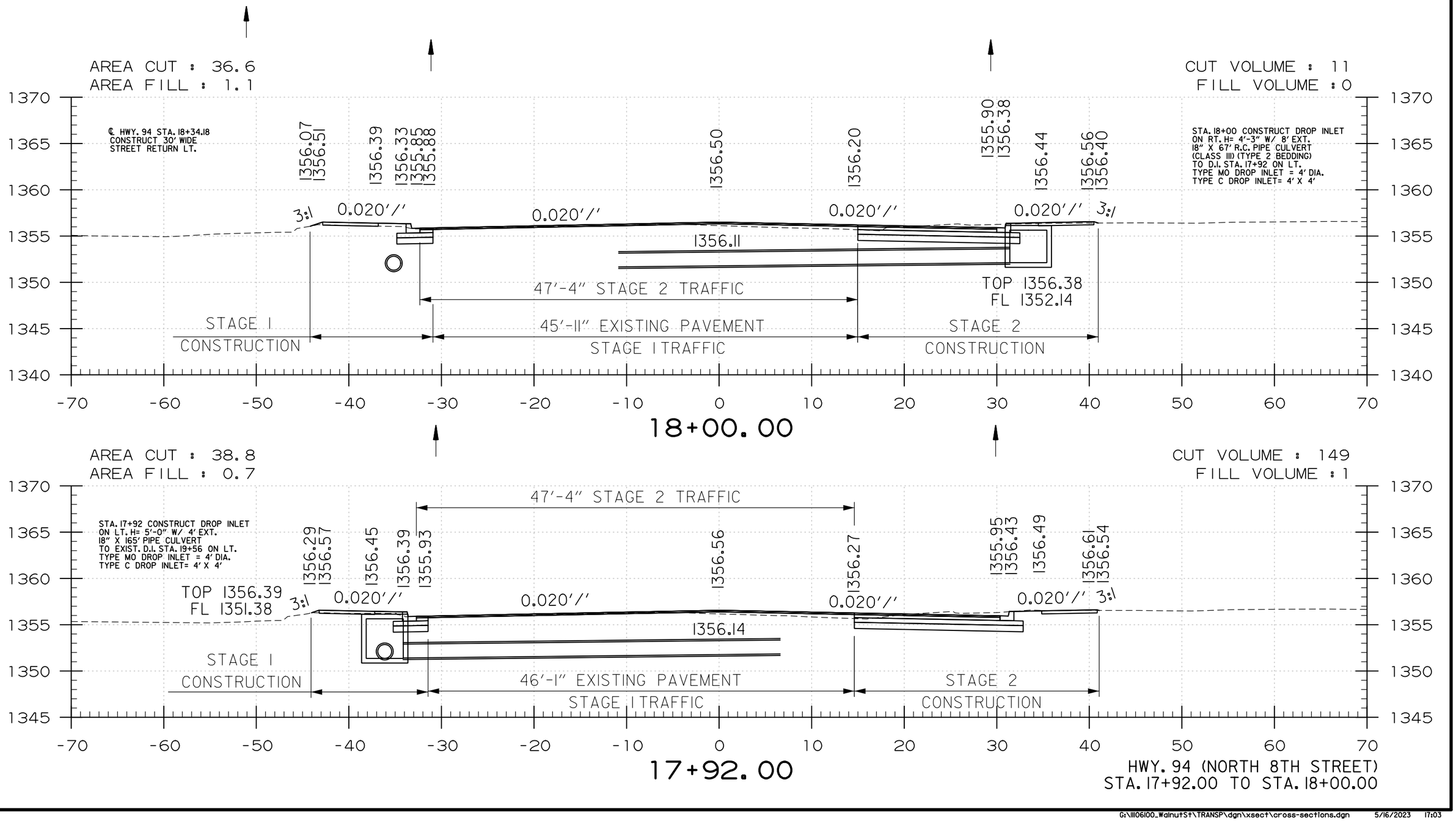
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	313	320
		CROSS SECTIONS				



USER: JJ5206
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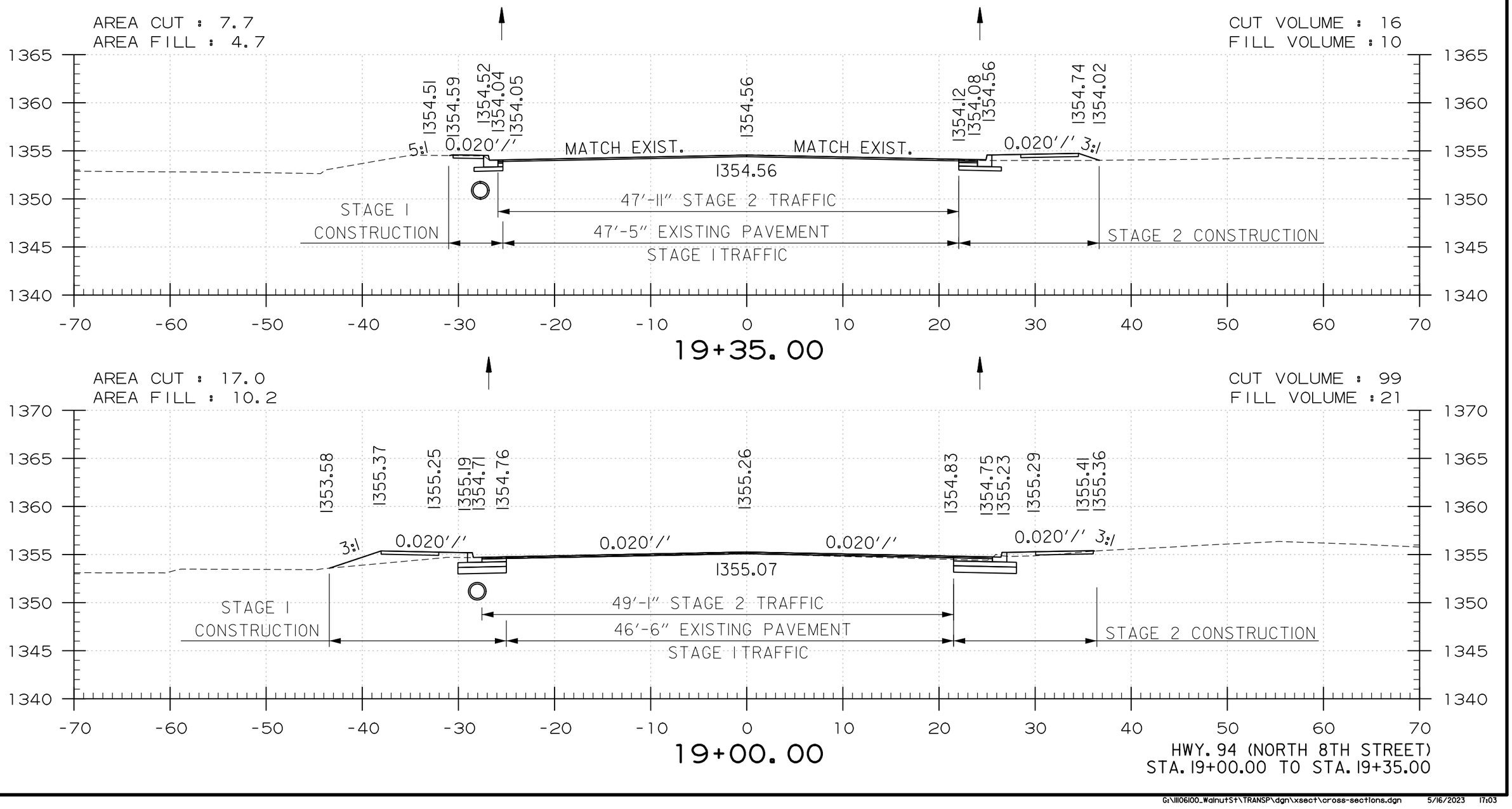
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	314	320
		CROSS SECTIONS				

STA. 19+56 IN PLACE
CURB INLET ON LT. H= 4'-0"
MODIFY TO DROP INLET
H= 3'-6"
TYPE ST DROP INLET = 4'x4'

S. H. 94 STA. 19+35.00
END CONSTRUCTION
JOB 090338

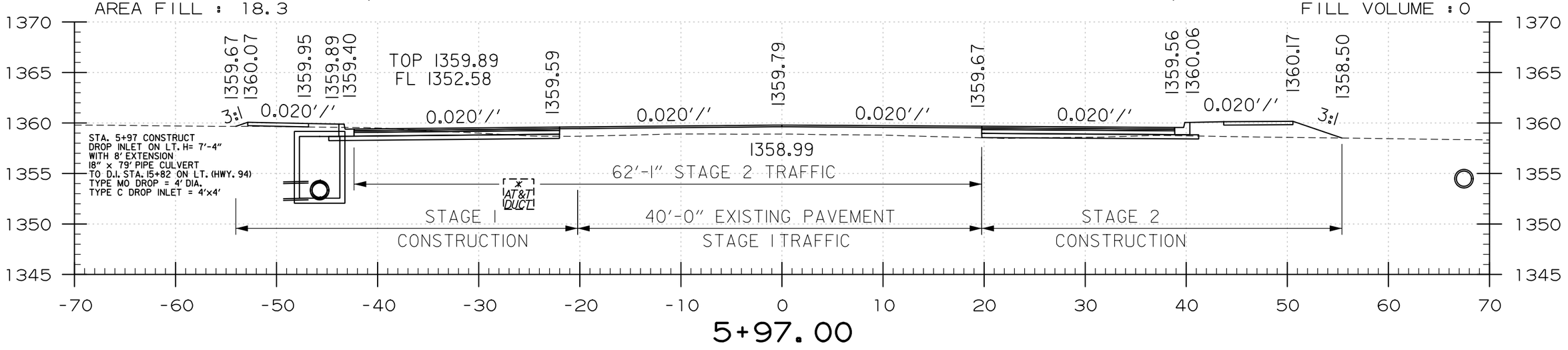


USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn
PLOTTED: 5/16/2023 17:03
MODEL: CROSS SECTIONS
SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	315	320
		CROSS SECTIONS				

AREA CUT : 20.2
AREA FILL : 18.3

CUT VOLUME : 0
FILL VOLUME : 0



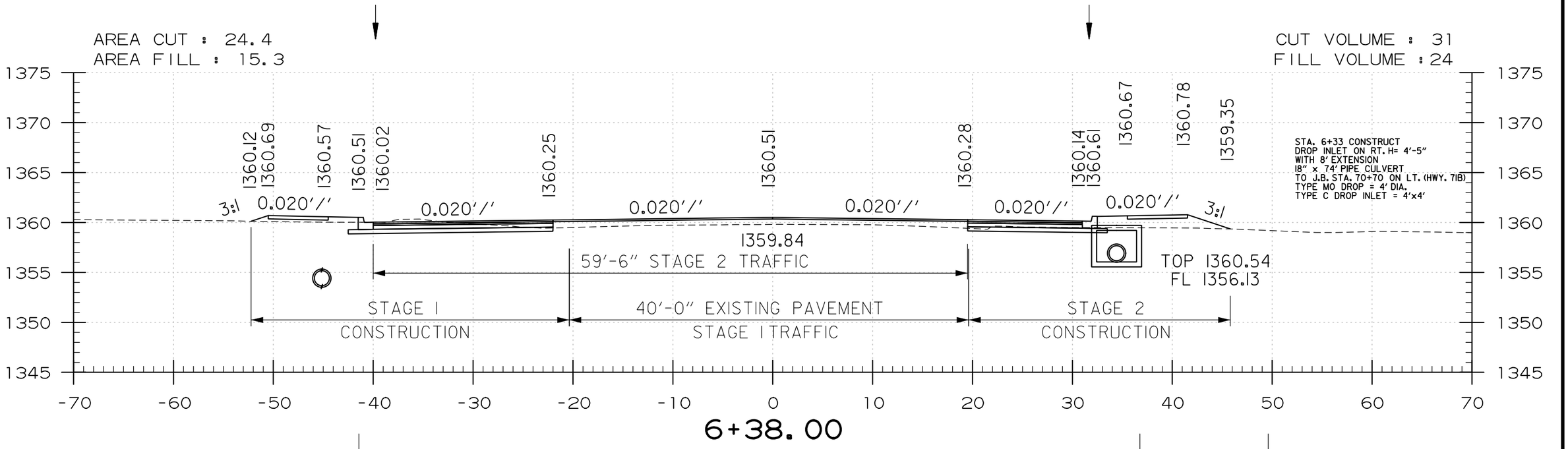
5+97.00

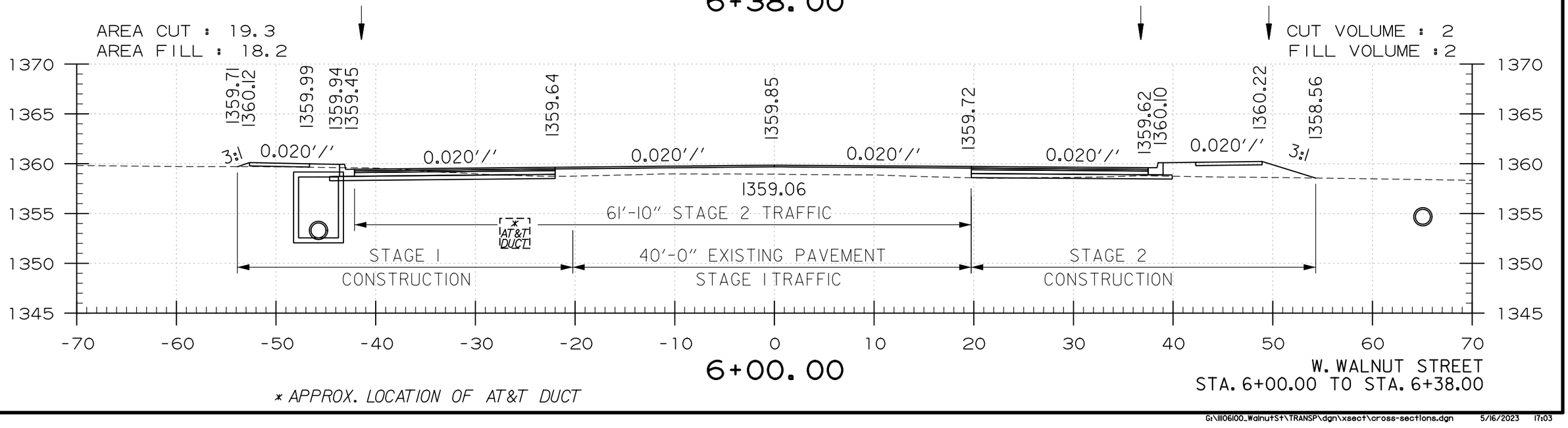
* APPROX. LOCATION OF AT&T DUCT

W. WALNUT STREET
STA. 5+97.00 TO STA. 5+97.00

USER: JJ5206
DESIGN FILE: G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn MODEL: CROSS SECTIONS
PLOTTED: 5/16/2023 17:03 SCALE: 1:10

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	316	320
		CROSS SECTIONS				





* APPROX. LOCATION OF AT&T DUCT

W. WALNUT STREET
STA. 6+00.00 TO STA. 6+38.00

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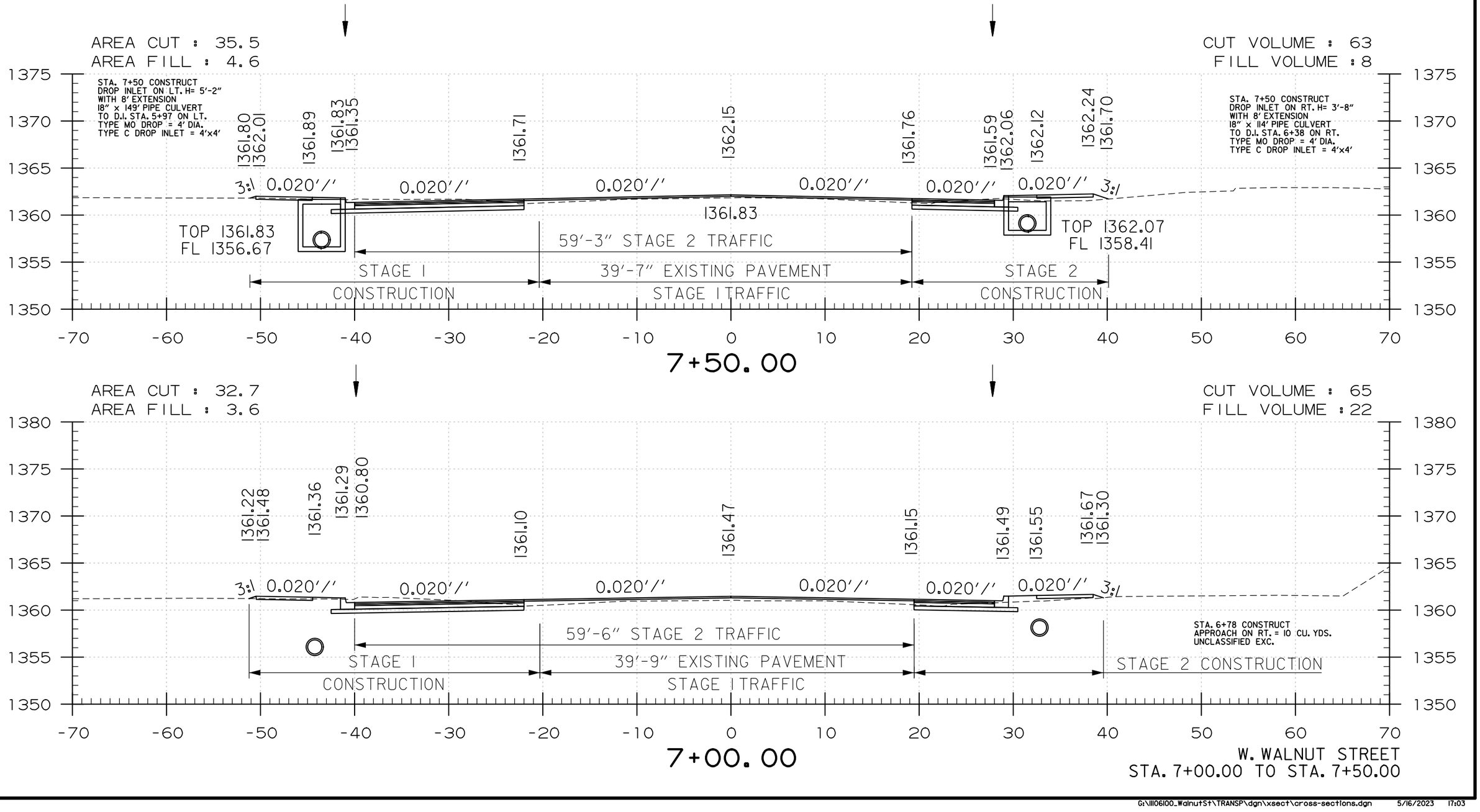
MODEL: CROSS SECTIONS

G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	317	320
		CROSS SECTIONS				



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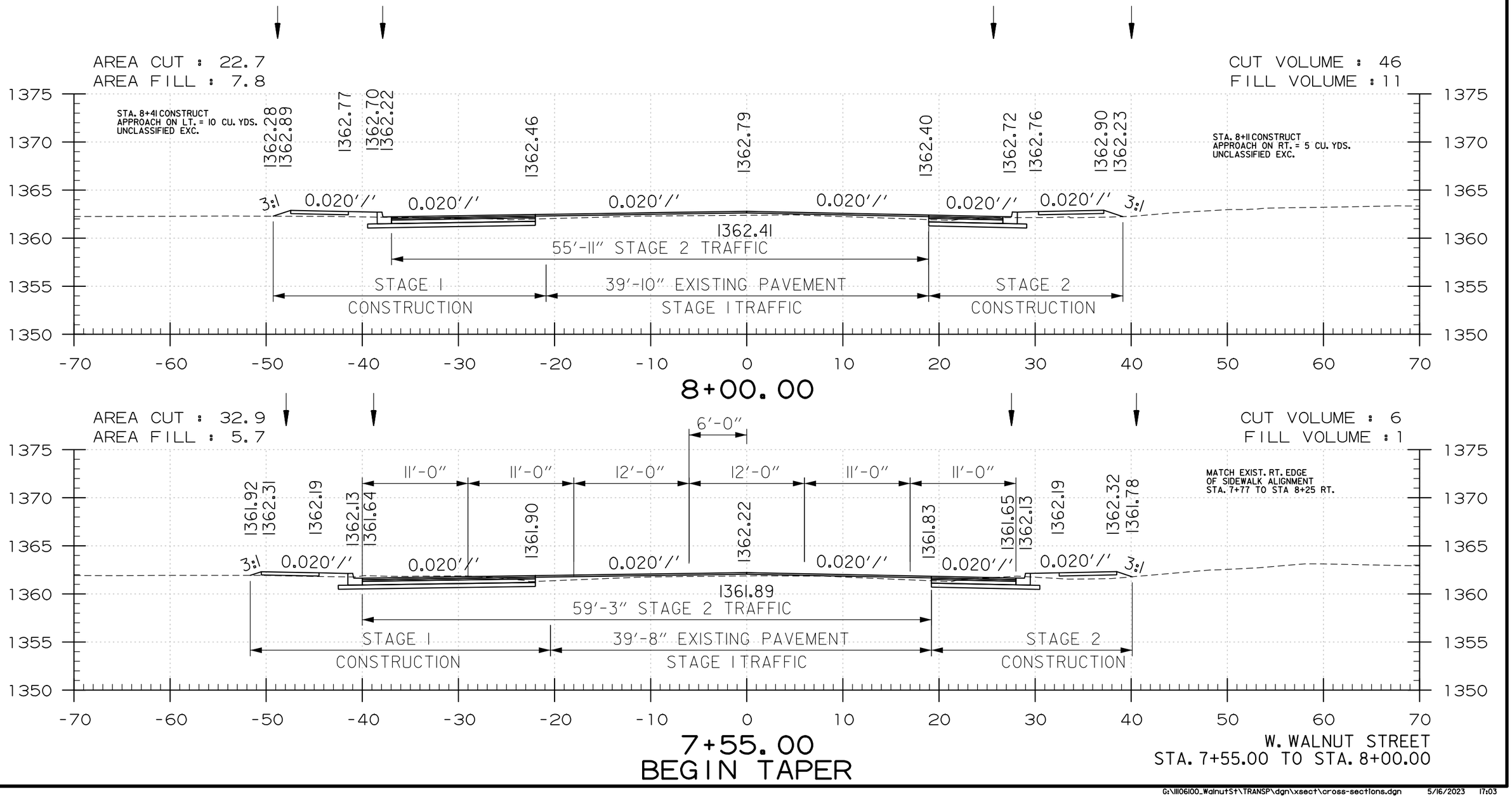
G:\111106100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED

FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	090338	318	320

CROSS SECTIONS



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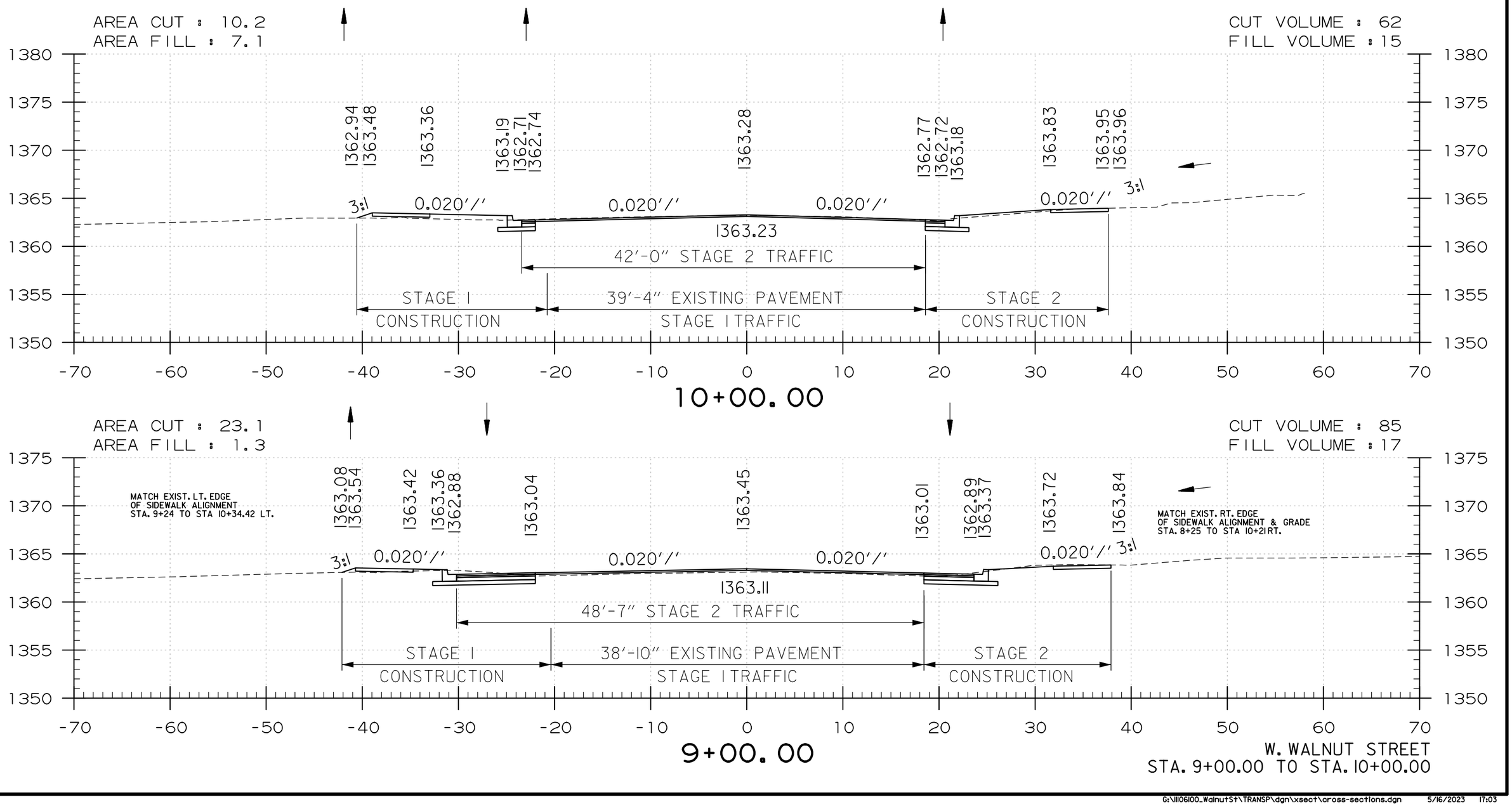
G:\III06100_WalnutSt\TRANSP\dgn\xsect\cross-sections.dgn 5/16/2023 17:03

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	319	320
		CROSS SECTIONS				



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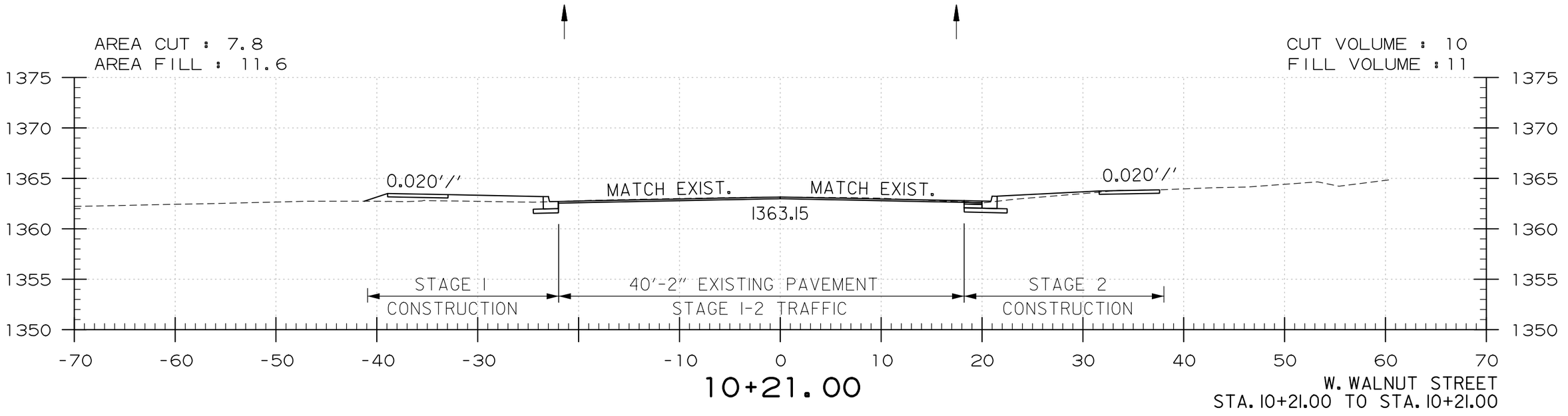
MODEL: CROSS SECTIONS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	090338	320	320
		CROSS SECTIONS				

WALNUT STREET STA. 10+21.00
END CONSTRUCTION
JOB 090338



10+21.00

W. WALNUT STREET
STA. 10+21.00 TO STA. 10+21.00

USER: JJ5206
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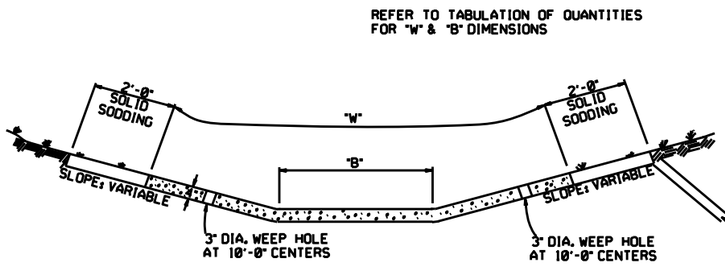
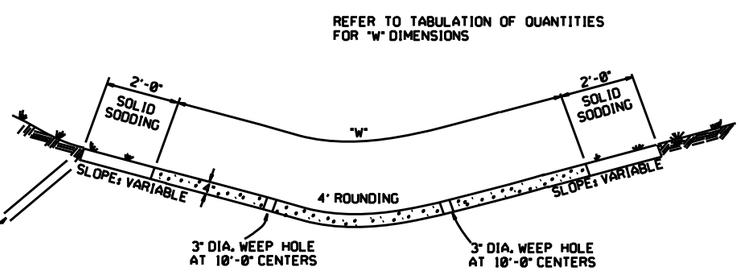


TYPE A

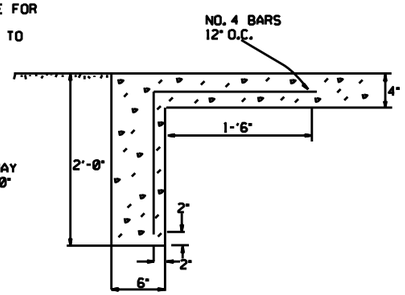
EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.



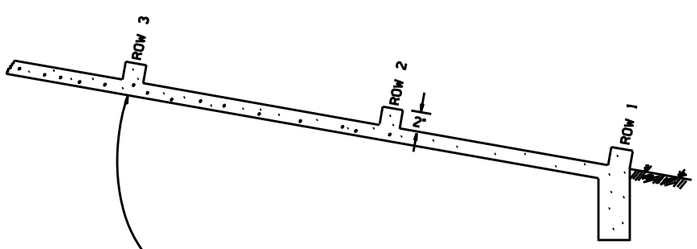
TYPE B

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

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

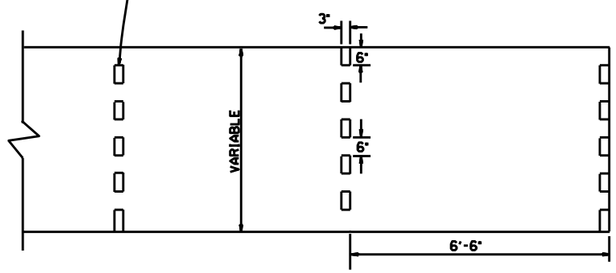


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

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



ENERGY DISSIPATORS
(NO SCALE)

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

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

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

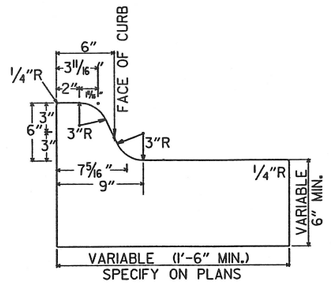
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45° INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	532-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72

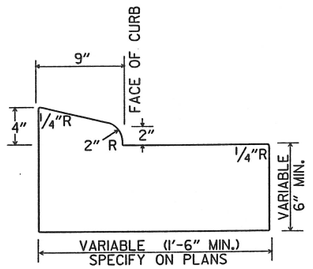
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

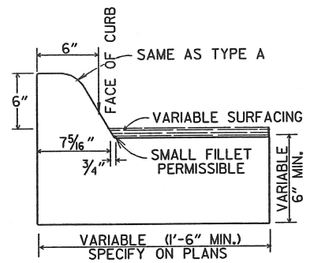
STANDARD DRAWING CDP-1



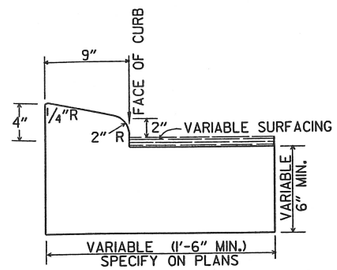
TYPE A



TYPE B-I



TYPE C



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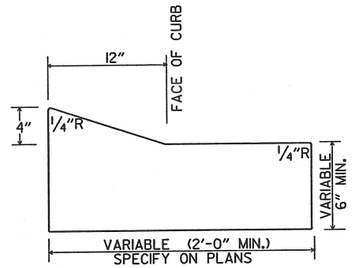
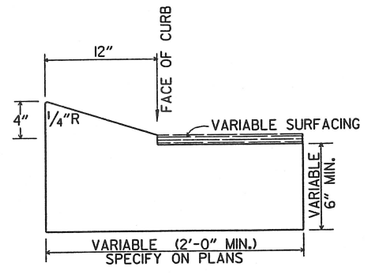
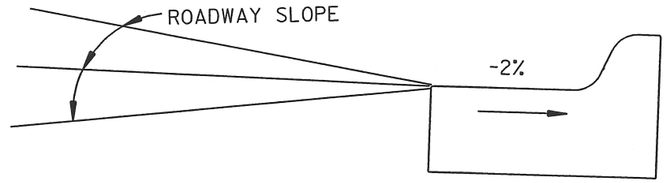


TYPE E-I



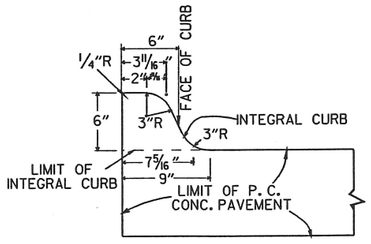
TYPE E-2

CONCRETE COMBINATION CURB AND GUTTER

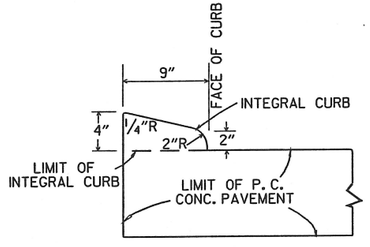


DETAIL OF GUTTER SLOPE

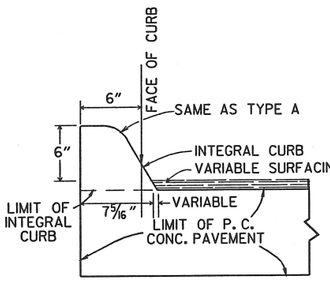
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



TYPE A

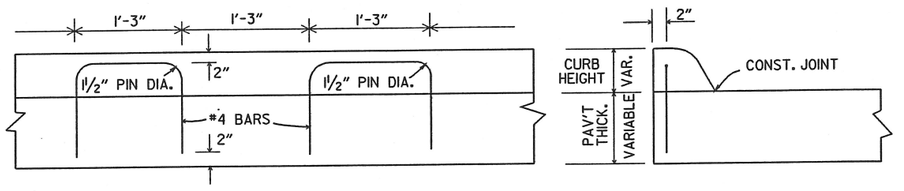


TYPE B



TYPE C

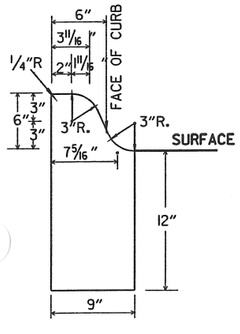
INTEGRAL CURB



LONGITUDINAL SECTION

ELEVATION

ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



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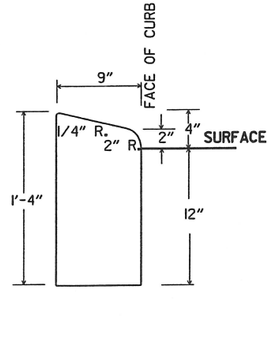

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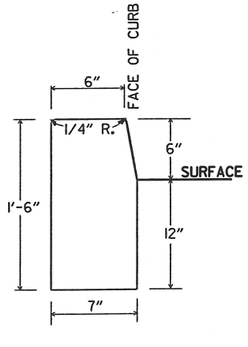
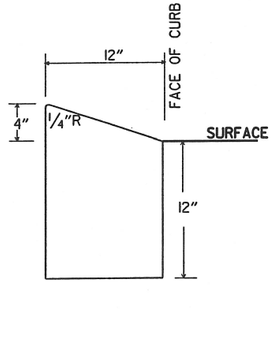
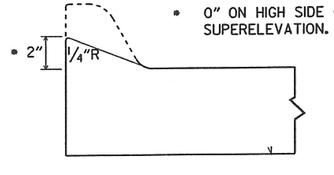


TYPE D



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.

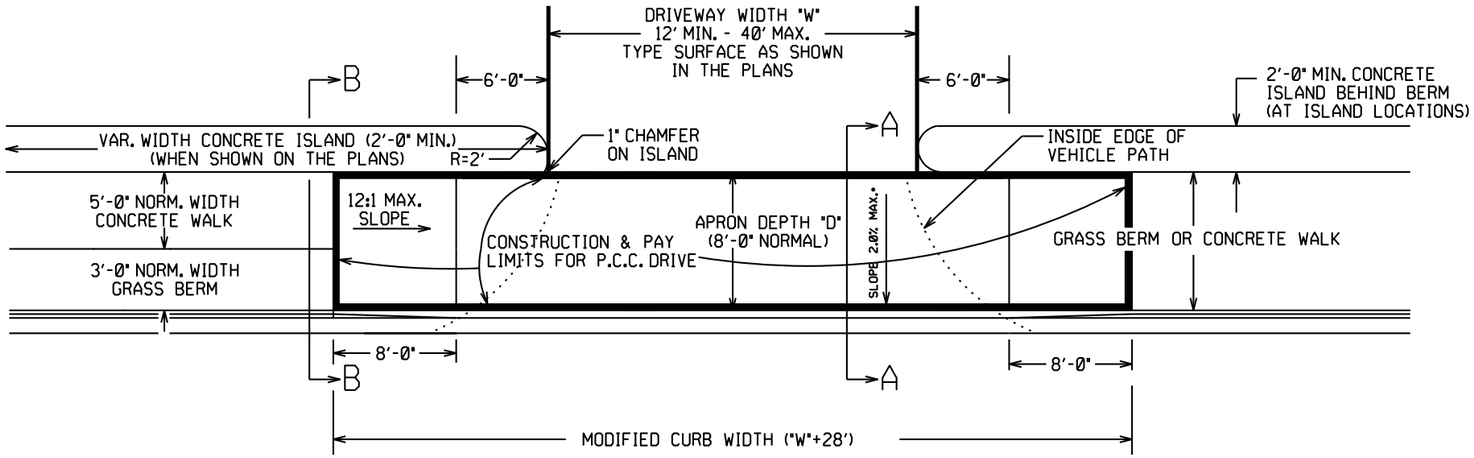
DETAILS OF MODIFIED CURB

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 I	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

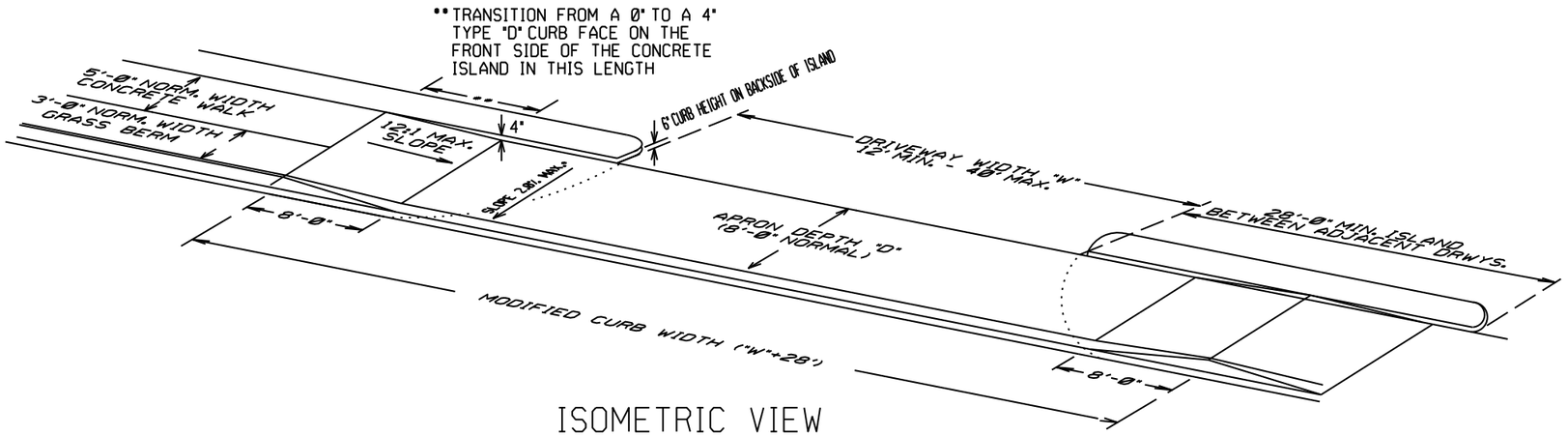
ARKANSAS STATE HIGHWAY COMMISSION

CURBING DETAILS

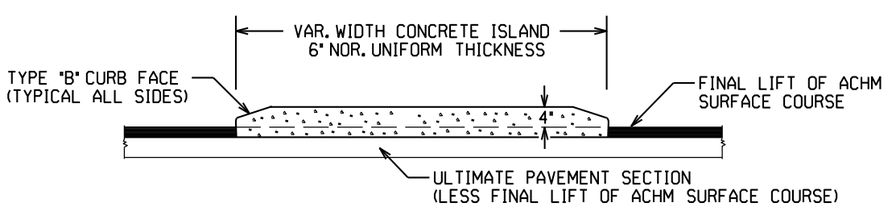
STANDARD DRAWING CG-1



PLAN VIEW



ISOMETRIC VIEW

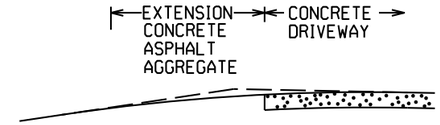


CURBED ISLANDS FOR CHANNELIZATION

CONCRETE ISLAND NOTES:

1. REFER TO PLANS FOR TYPE OF CURB FACE TO BE USED. NO DIRECT PAYMENT WILL BE MADE FOR THE CURB FACES SHOWN ON THE ISLAND DETAILS. PAYMENT FOR THE CURB FACE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM "CONCRETE ISLAND".

2. TRANSVERSE EXPANSION JOINTS, NOT LESS THAN 1/2" WIDE, SHALL BE PLACED AT MINIMUM INTERVAL OF 45'. TRANSVERSE JOINT SHALL BE CONSTRUCTED USING A JOINT FILLER COMPLYING WITH AASHTO M213.



EXTENSION TYPICAL SECTIONS

1: CONCRETE - 6" P.C. CONCRETE DRIVEWAY

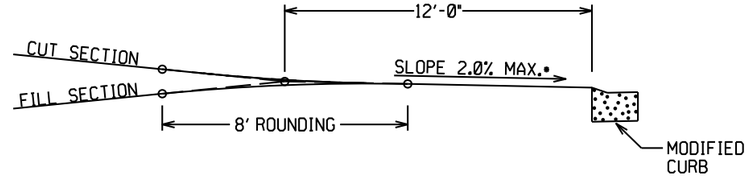
2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE (1") OR
4" ACHM BASE COURSE (1-1/2")

3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE

4: AGGREGATE - 6" AGGREGATE BASE COURSE

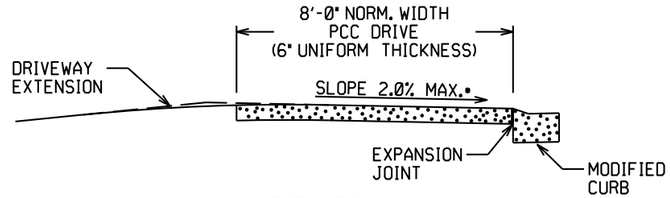
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

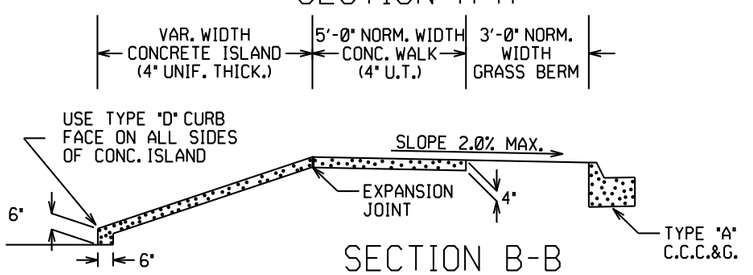


DRIVEWAY VERTICAL ALIGNMENT DETAILS

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



SECTION A-A



SECTION B-B

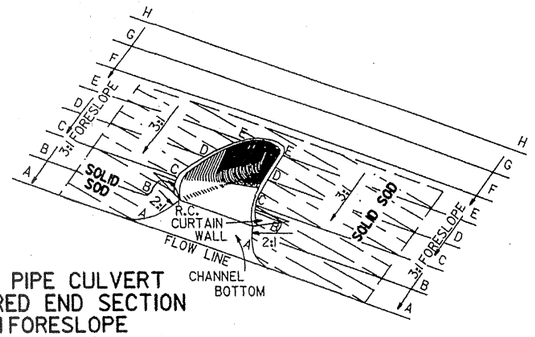
CURBED ISLAND BEHIND WALK

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

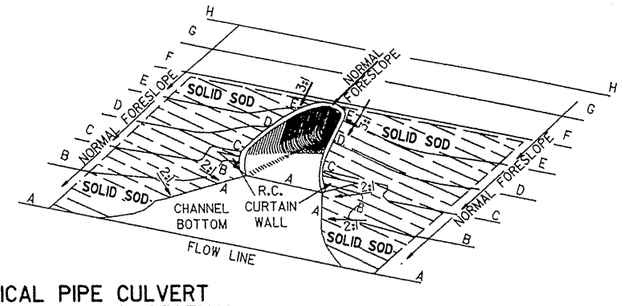
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & ISLANDS

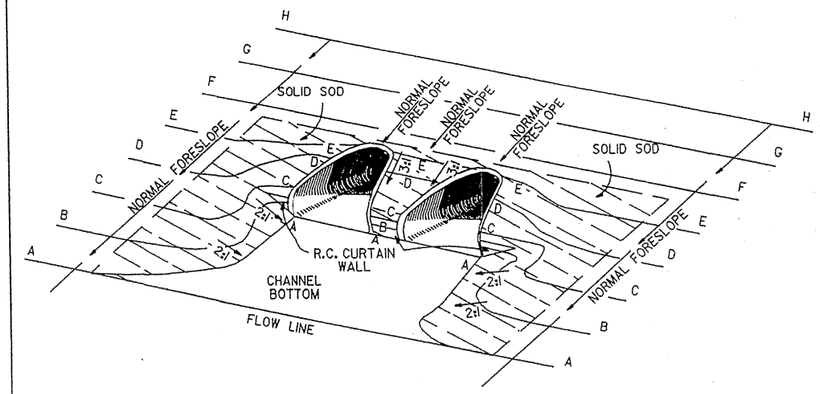
STANDARD DRAWING DR-1



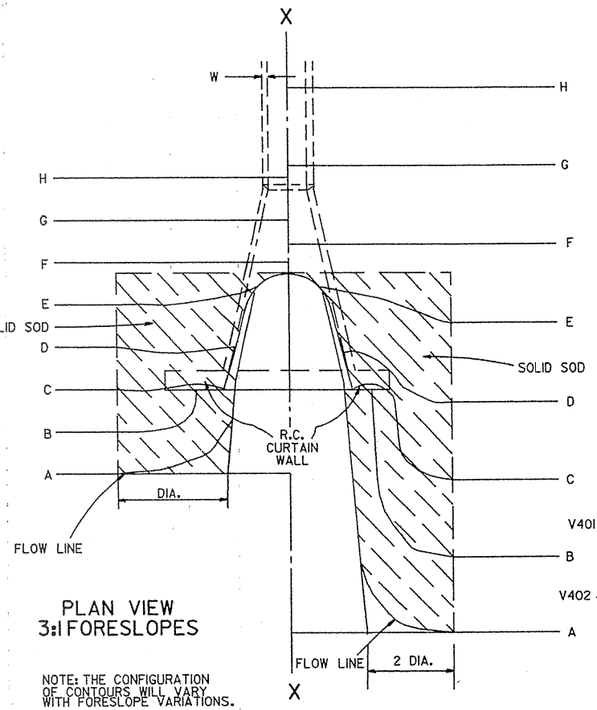
TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



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

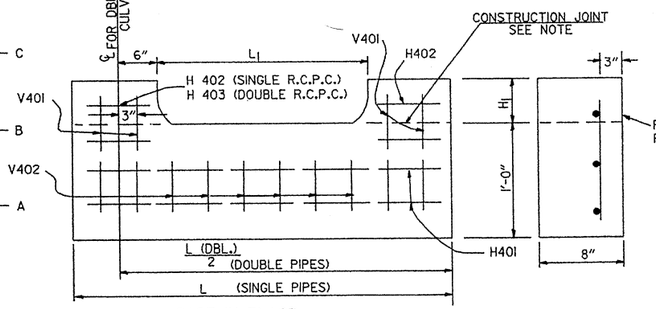
NOTE: THE CONFIGURATION OF CONTOURS WILL VARY WITH FORESLOPE VARIATIONS.

PLAN VIEW
FLATTENED FORESLOPES

R.C. CURTAIN WALL DIMENSIONS & QUANTITIES

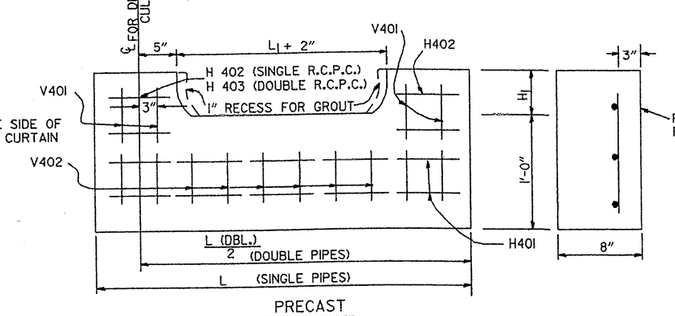
PIPE DIA.	H_1	L_1	L	L (DBL.) / 2	SINGLE R.C.P.C. CONC. CU. YDS.	SINGLE R.C.P.C. REINF. STEEL LBS.	DOUBLE R.C.P.C. CONC. CU. YDS.	DOUBLE R.C.P.C. REINF. STEEL LBS.
18"	11½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	39.0	0.67	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.



CAST-IN-PLACE

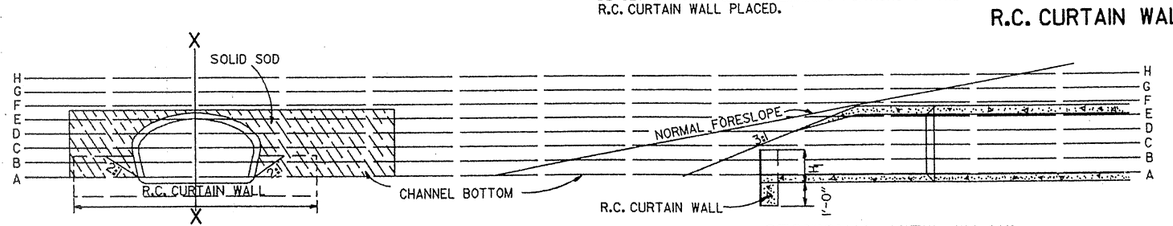
NOTE: THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE & THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.



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



END VIEW

SECTIONAL VIEW "X-X"

REINFORCING STEEL SCHEDULE

PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	NO.	H402 L	NO.	V401 L	NO.	V402 L	NO.	DOUBLE R.C. PIPE CULVERT H401 L	NO.	H402 L	NO.	H403 L	NO.	V401 L	NO.	V402 L	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.

SOLID SODDING

PIPE DIA.	SINGLE R.C.P.C. 3:1	4:1	6:1	DOUBLE R.C.P.C. 3:1	4:1	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	37	59	87
60"	45	62	104	48	65	107
72"	64	92	156	67	95	159

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

GENERAL NOTES

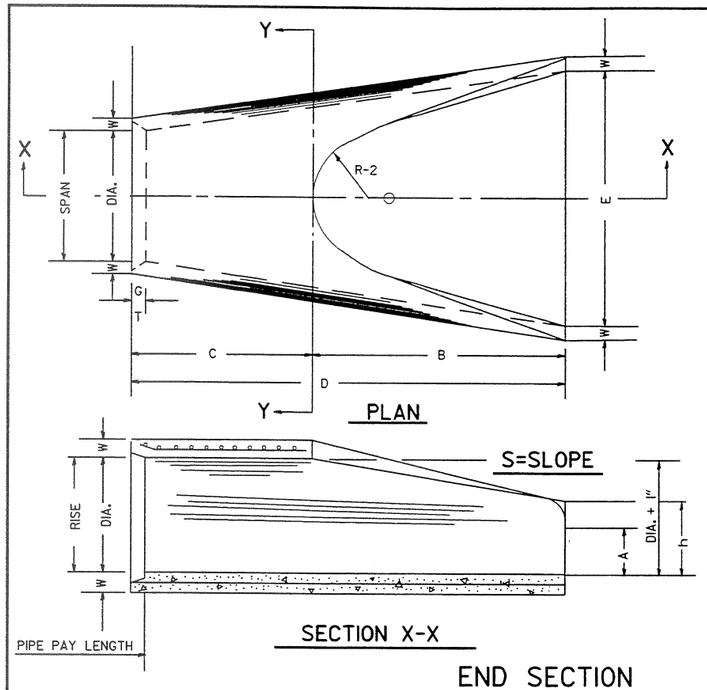
1. A CAST-IN-PLACE OR PRECAST CURTAIN WALL MAY BE USED. PAYMENT FOR THE CURTAIN WALL SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID EACH FOR FLARED END SECTIONS OF THE SEVERAL SIZES, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS INCLUDING REINFORCING STEEL AND CONCRETE; FOR FORMS, MIXING AND PLACING; FOR EXCAVATION AND BACKFILL, AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED 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 x 3 W10 x W10 MAY BE USED IN LIEU OF REINFORCING BARS.

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

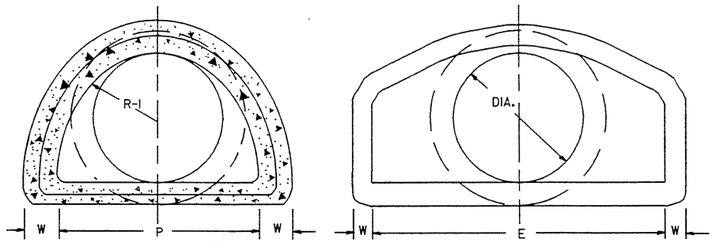


SECTION X-X

END SECTION
FOR REINFORCED CONCRETE PIPE CULVERTS

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"	33 3/16"	16 15/16"	14"	2½"	1600	1'-1½"
30"	3½"	1'-0"	4'-6"	1'-7¾"	6'-1¾"	5'-0"	3:1	31"	37"	18½"	15"	3¼"	1940	1'-4⅝"
36"	4"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	6'-0"	3:1	37"	47 15/16"	24 5/16"	20"	3½"	4100	1'-8"
42"	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53 1/16"	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"	36 11/16"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 13/16"	38 15/16"	24"	5"	13250	4'-6"



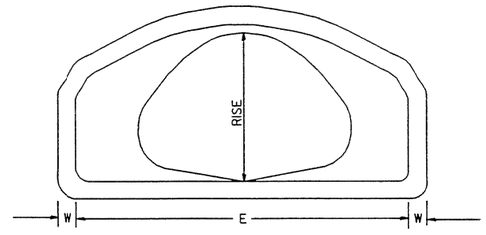
SECTION Y-Y END VIEW

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

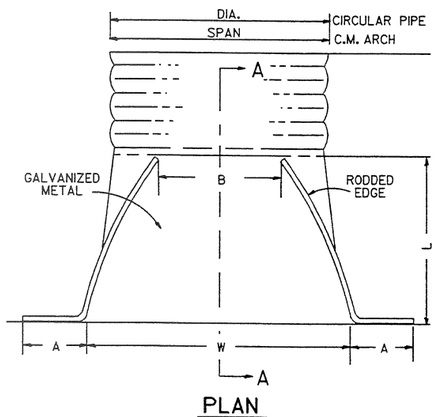
ARCH PIPE

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"	36 13/16"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47 15/16"	20"	3"	2½:1
36	43¾	44	26⅝	27	4"	10½"	4'-0"	2'-1½"	6'-1½"	6'-6"	54 5/16"	22"	3½"	2½:1
42	51⅛	51	31 5/16	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"	70 5/16"	24"	4¼"	2½:1
54	65	65	40	40	5½"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72 15/16"	24"	4¾"	2¼:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77 13/16"	24"	5"	2¼:1

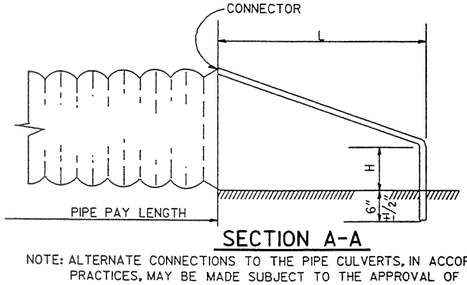
• THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PER CENT FROM THE VALUES SPECIFIED BY AASHTO M 206.



END VIEW
CONCRETE ARCH PIPE

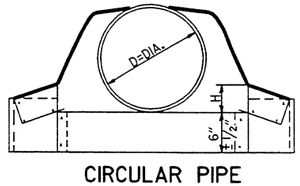


PLAN

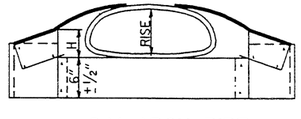


SECTION A-A

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



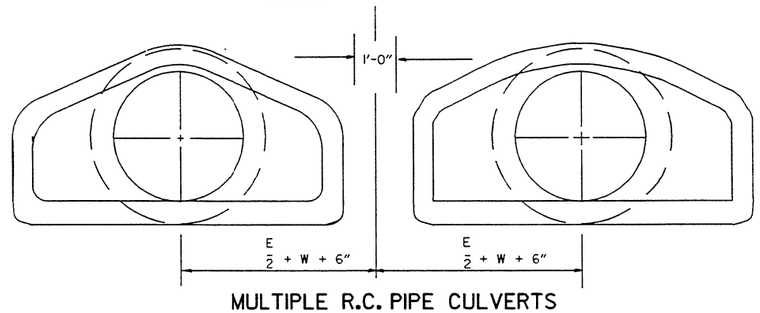
C.M. ARCH PIPE

CIRCULAR PIPE

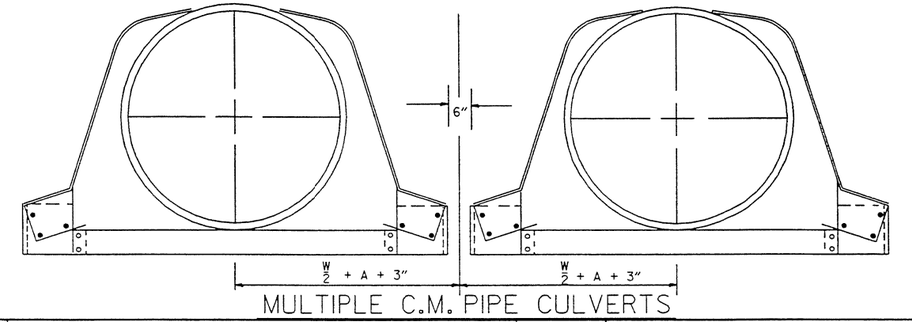
D. DIA.	GAUGE	A 1" ±	B. MAX.	H 1" ±	L 1½" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2½:1
15	16	7	8	6	26	30	2½:1
18	16	8	10	6	31	36	2½:1
21	16	9	12	6	36	42	2½:1
24	16	10	13	6	41	48	2½:1
30	14	12	16	8	51	60	2½:1
36	14	14	19	9	60	72	2½:1
42	12	16	22	11	69	84	2½:1
48	12	18	27	12	78	90	2½:1
54	12	18	30	12	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	2¼:1	12
60"	71	47	18	33	12	77	114	2¼:1	12



MULTIPLE R.C. PIPE CULVERTS



MULTIPLE C.M. PIPE CULVERTS

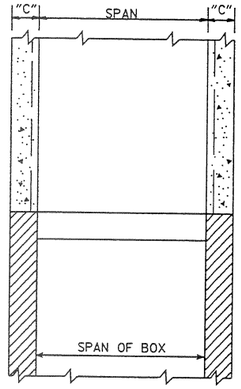
END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS

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

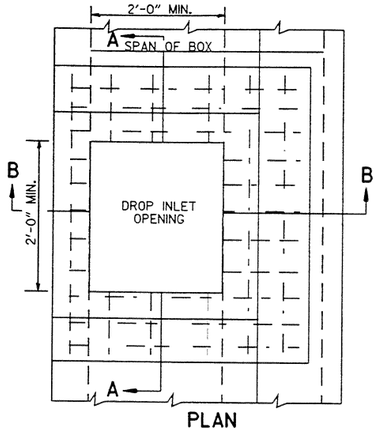
ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

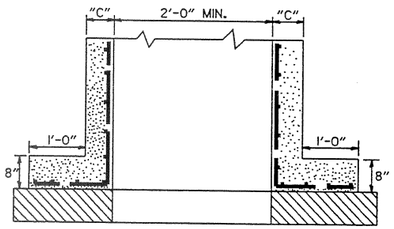
STANDARD DRAWING FES-2



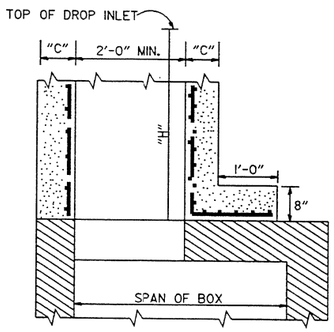
SECTION B-B



PLAN

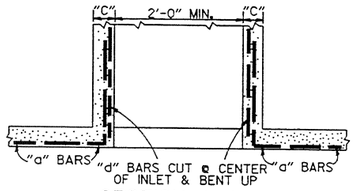


SECTION A-A

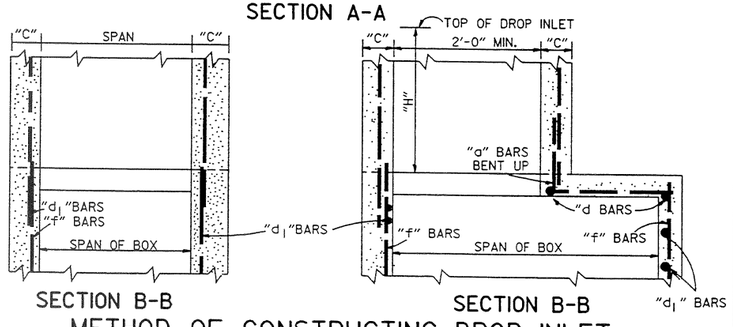


SECTION B-B

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



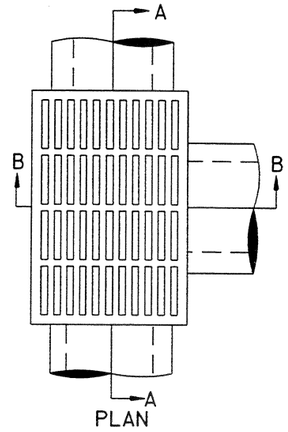
SECTION A-A



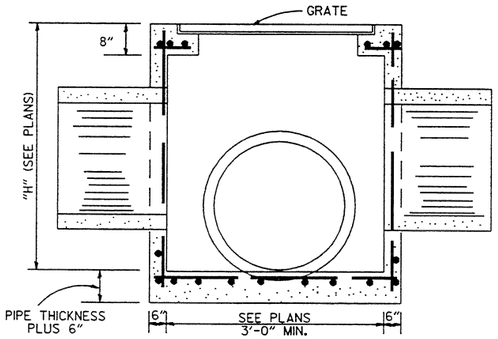
SECTION B-B SECTION B-B

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.

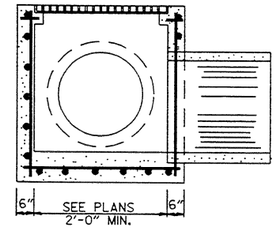


PLAN



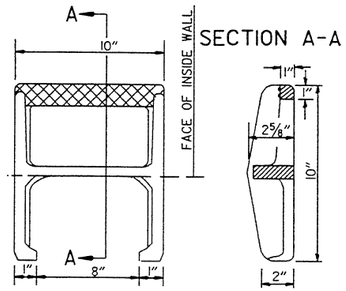
SECTION A-A

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1½" MIN. COVER. THIS TYPE DROP INLET TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.



SECTION B-B

DROP INLET (TYPE E)

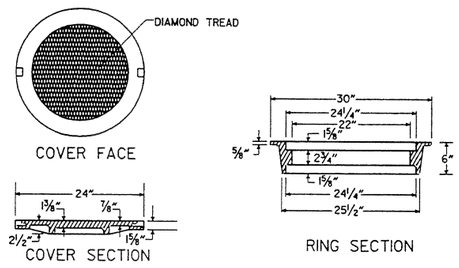


APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

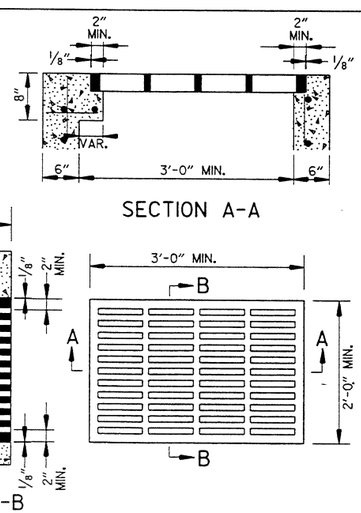
NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET



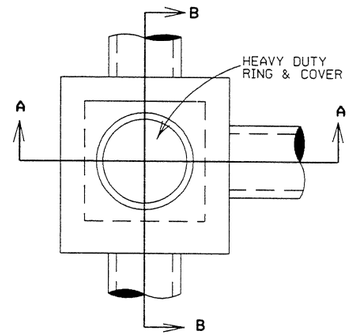
APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

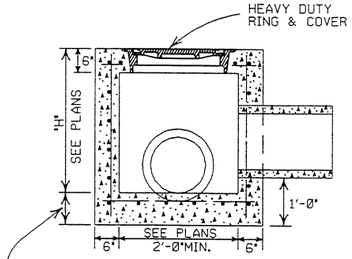


APPROXIMATE MINIMUM WATERWAY OPENING = 260 SQ. IN.

GRATE FOR TYPE E DROP INLET

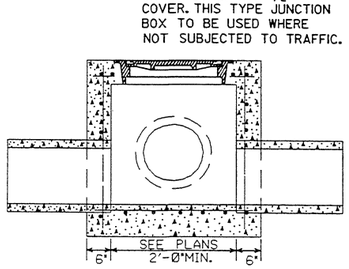


PLAN



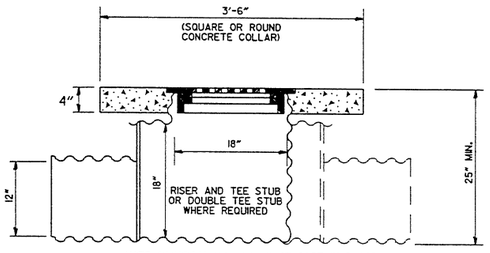
SECTION A-A

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1½" MIN. COVER. THIS TYPE JUNCTION BOX TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.

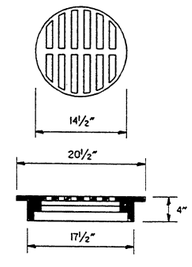


SECTION B-B

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:

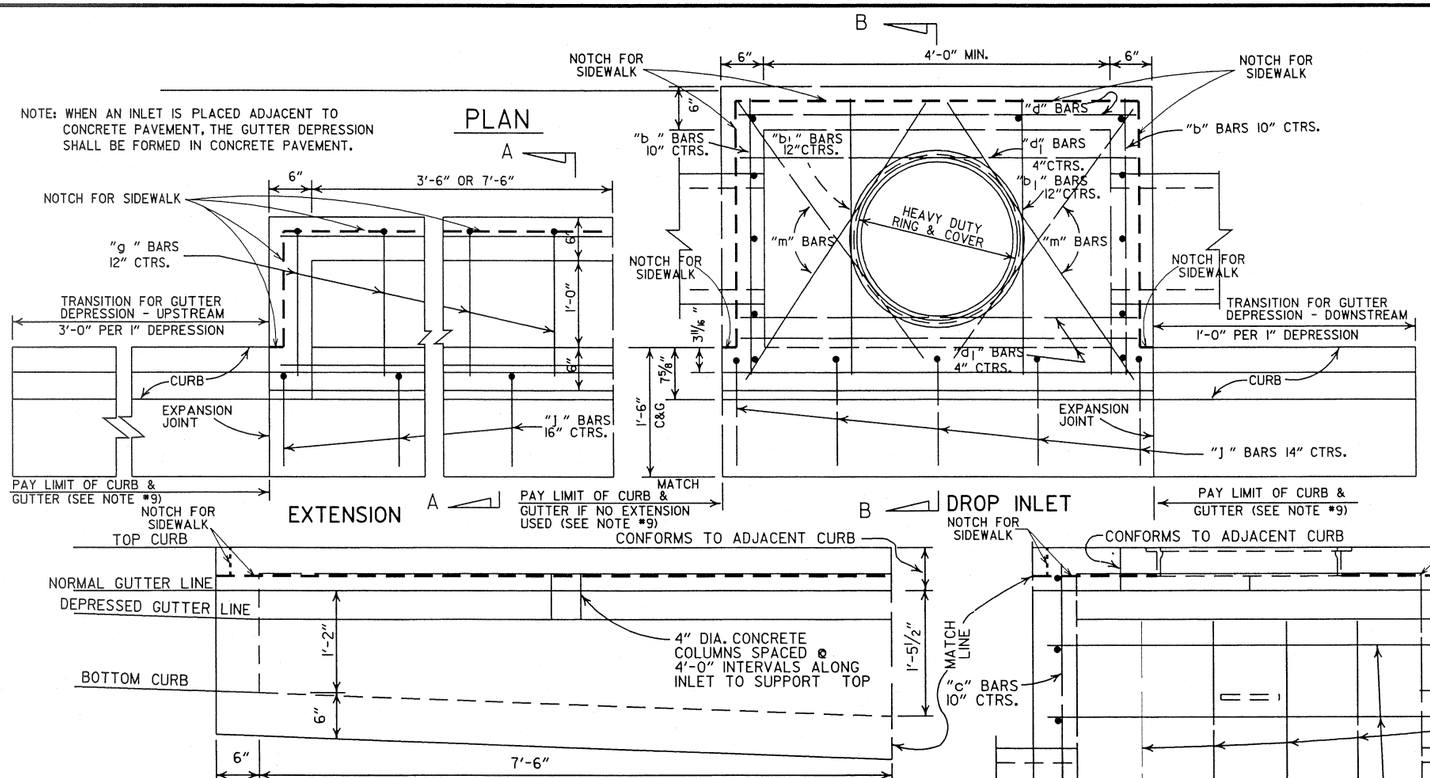
1. ALL EXPOSED CORNERS SHALL BE ¾" CHAMFERED.
2. STEPS SHALL BE INSTALLED ON 16" CENTERS ON ALL INLETS 4'-0" HIGH OR OVER, OR AS APPROVED BY THE ENGINEER.
3. EXPANSION JOINT MATERIAL SHALL BE ¾" PREFORMED FIBER.
4. GRATE OR GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS 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



4'-0" LENGTH DROP INLET

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

DROP INLET EXTENSION

4'-0" CLASS A CONC.	4'-0" REINF. STEEL	8'-0" CLASS A CONC.	8'-0" REINF. STEEL
CU. YDS.	POUNDS	CU. YDS.	POUNDS
0.58	38	0.87	72

DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED.

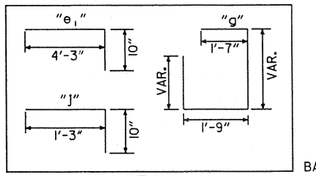
0.04	3		

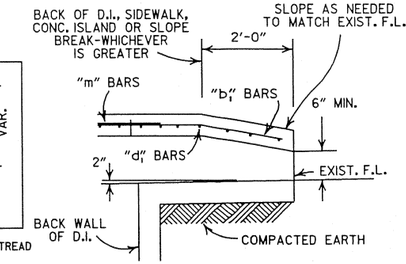
NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY.

DEDUCT FROM QUANTITY COMPUTED FOR EACH PIPE ENTERING INLET

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

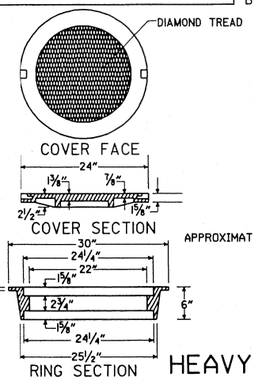
BAR DIAMOND





BACK OPENING

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



APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
3. ALL REINF. BARS SHALL BE #4 AND HAVE 1 1/2" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
6. WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (F.P.C.-9D).
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
9. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
10. 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.
11. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

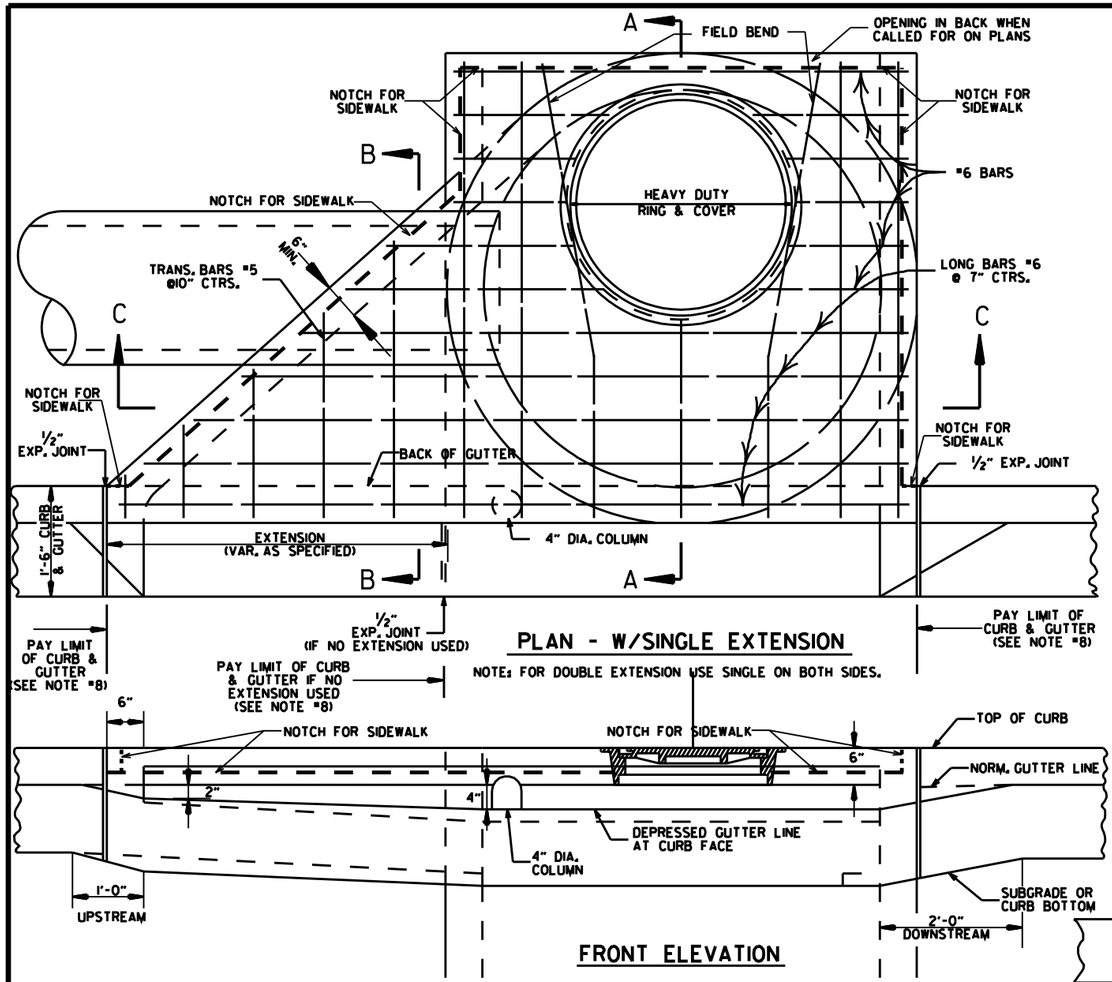
DATE REV.	REVISION	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13; REVISED SECTION B-B	
1-12-00	CORRECTED DIMENSION ON SECTION B-B & REVISED RING & COVER	
5-13-99	ADDED DETAIL OF NOTCH FOR SIDEWALKS	
7-02-98	REPLACED RING & COVER W/HEAVY DUTY RING & COVER ADDED NOTES 9,10,&11	
10-18-96	CORRECTED SPELLING	
4-26-96	ADDED NOTE 8 & REVISED (4')(8') EXTENSION TITLES	10-18-96
4-1-93	REVISED BACK OPENING & NOTE	
8-15-91	DELETE TYPE IV GRATE	
7-15-88	REVISED STEP DETAIL	
5-20-83	REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83	ADDED GENERAL NOTE NO. 4	
3-2-81	ADDED TYPE IV-A GRATE	
5-22-74	DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS

(TYPE C)

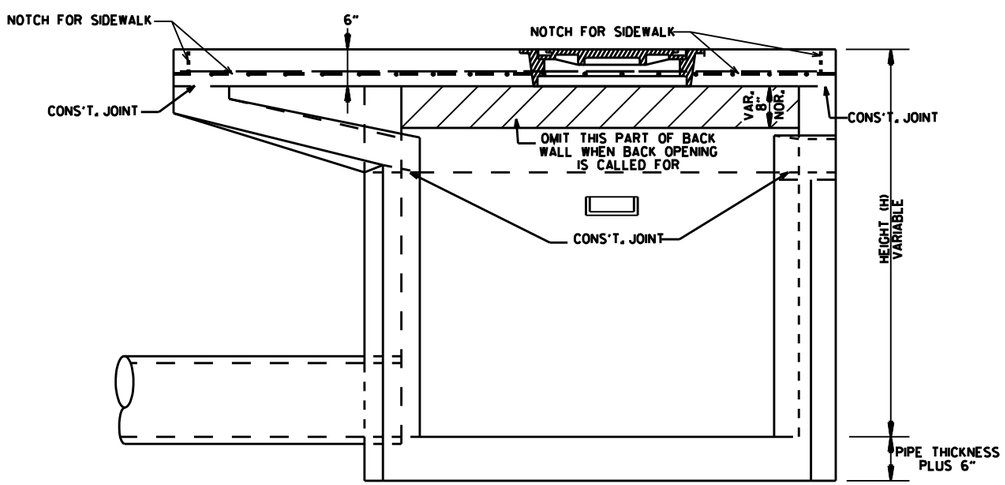
STANDARD DRAWING FPC-9E



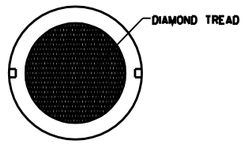
PLAN - W/SINGLE EXTENSION

NOTE: FOR DOUBLE EXTENSION USE SINGLE ON BOTH SIDES.

FRONT ELEVATION



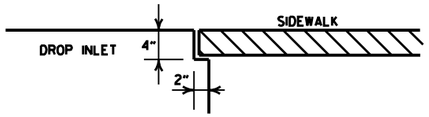
SECTION C-C



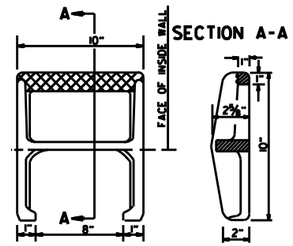
APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

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



DETAIL OF NOTCH FOR SIDEWALKS

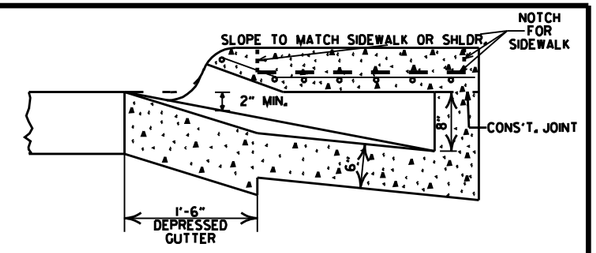


APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

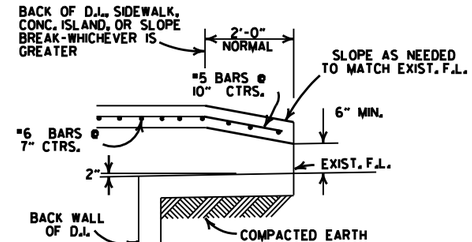
NOTE: THIS DETAIL IS TYPICAL, OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET



SECTION B-B

SECTION A-A



BACK OPENING

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

GENERAL NOTES:

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

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

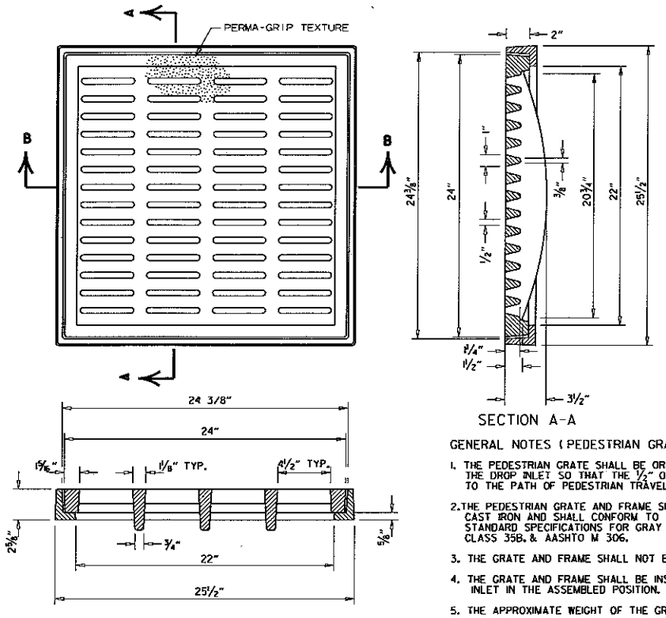
DIA. OF D.I.	DIA. OF OUTLET PIPE	MINIMUM WALL THICKNESS	
		CAST IN PLACE	PRECAST
4' I.D.	12" THRU 27"	6"	5"
5' I.D.	30" THRU 42"	8"	6"
6' I.D.	48" THRU 54"	8"	7"

DATE	REVISIONS	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13	
1-12-00	REVISED HEAVY DUTY RING & COVER	
5-13-99	ADDED NOTCH DETAIL FOR SIDEWALKS	
7-02-98	REP. NOTE 8, REV. PLAN DET., REV. PICTURE FOR NEW RING & COVER, ADDED HEAVY DUTY RING & COVER AND DETAIL OF STEP FOR DROP INLET	
4-26-96	ADDED NOTE 11 & ADJ. OPENING DIMENSION	
10-12-95	CORRECTED *5 BAR SPACING	
7-20-95	CORRECTED DIAMETER OF D.I. IN BOX	
2-2-95	TYPE C TO MO (OPEN BACK DETAIL)	
11-1-94	REVISED GENERAL NOTES	11-1-94
4-1-93	REV BACK OPEN DETAIL & NOTE	4-1-93
8-14-91	REVISED NOTES 11,12 & ADDED BK.OPEN DETAIL	8-14-91
11-20-89	ADDED NOTE NO.12	11-20-89
4-21-89	ADDED NOTE 9 & MINIMUM WALL THICKNESS	4-21-89
7-25-88	ADDED EXTEND NOTE TO SECTION A-A	7-25-88
1-14-87	MODIFIED WALL THICKNESS	1-14-87
6-12-87	ISSUED	6-12-87

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET (TYPE MO)

STANDARD DRAWING FPC-9M



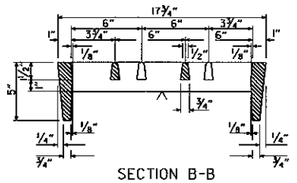
SECTION B-B

SECTION A-A

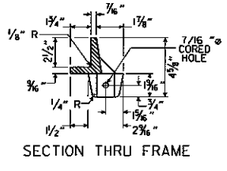
DETAILS OF PEDESTRIAN GRATE AND FRAME

GENERAL NOTES (PEDESTRIAN GRATE & FRAME)

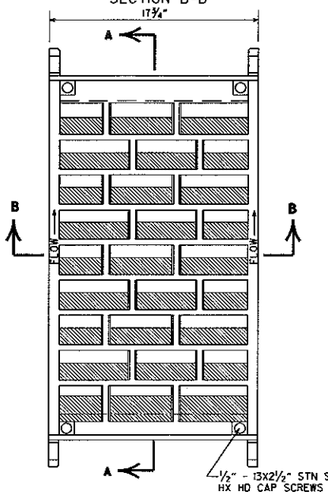
1. THE PEDESTRIAN GRATE SHALL BE ORIENTED IN THE TOP OF THE DROP INLET SO THAT THE ½" OPENINGS ARE PERPENDICULAR TO THE PATH OF PEDESTRIAN TRAVEL.
2. THE PEDESTRIAN GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS 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 211LBS.
6. THE MINIMUM WATERWAY OPENING SHALL BE 122 SQ. IN.

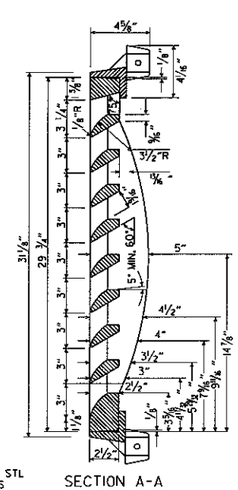


SECTION B-B



SECTION THRU FRAME



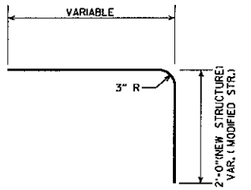


SECTION A-A

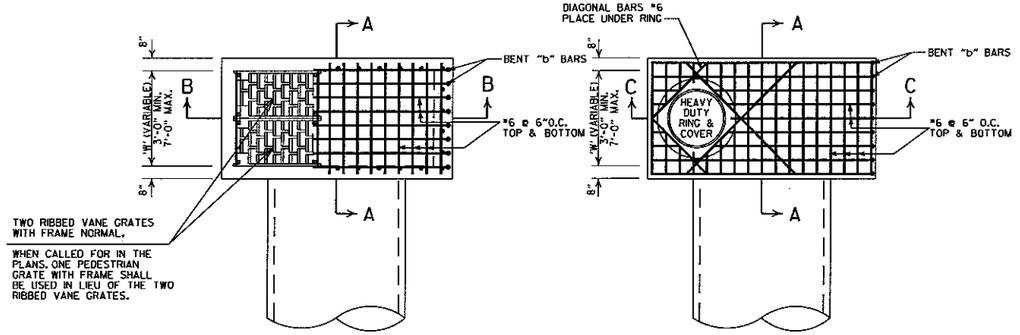
DETAILS OF RIBBED VANE GRATE AND FRAME

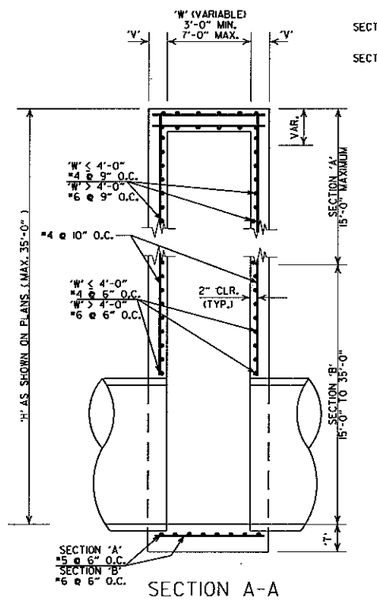
GENERAL NOTES (RIBBED VANE GRATE & FRAME)

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.



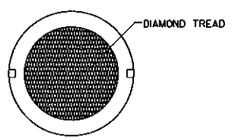
DETAIL OF BENT "b" BAR



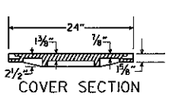


SECTION A-A

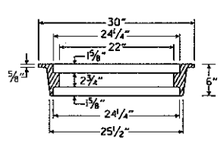
DETAILS OF DROP INLET (TYPE ST)



COVER FACE



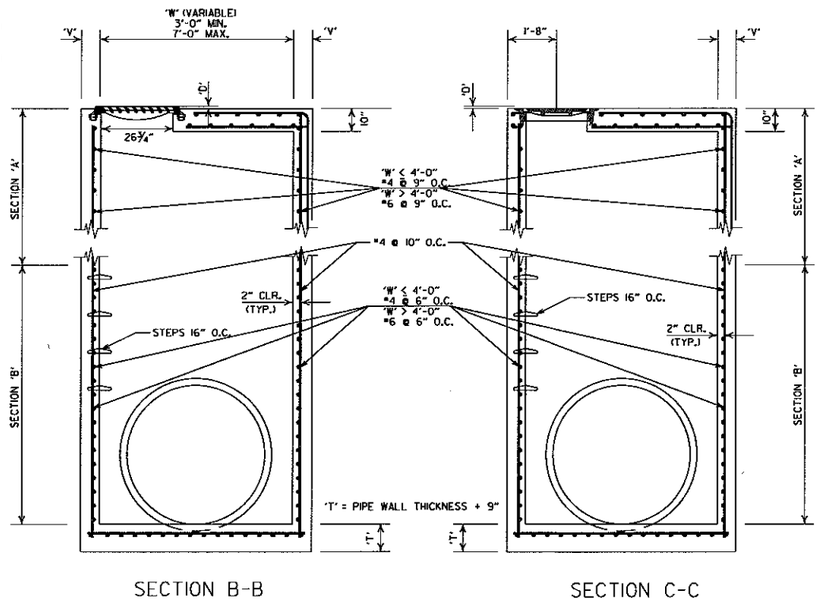
COVER SECTION



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):

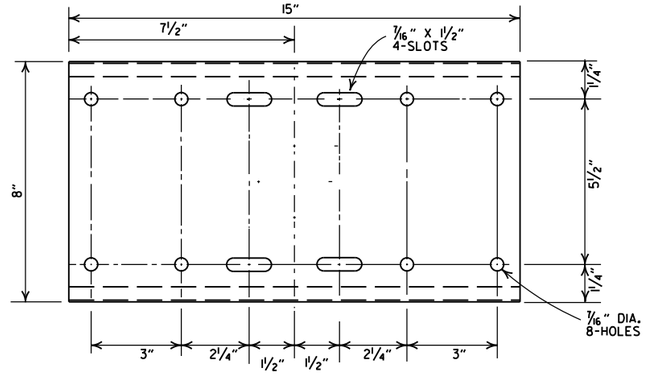
1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE 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

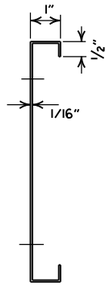
ARKANSAS STATE HIGHWAY COMMISSION

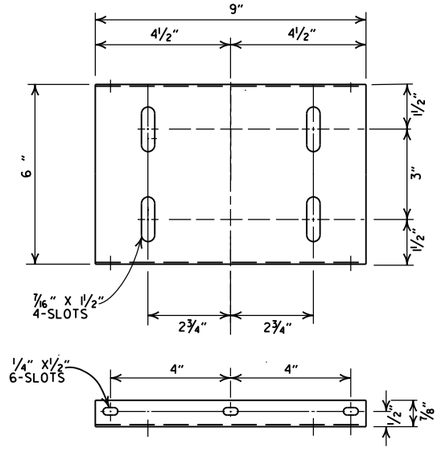
DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)

STANDARD DRAWING FPC-9S

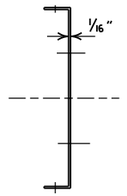


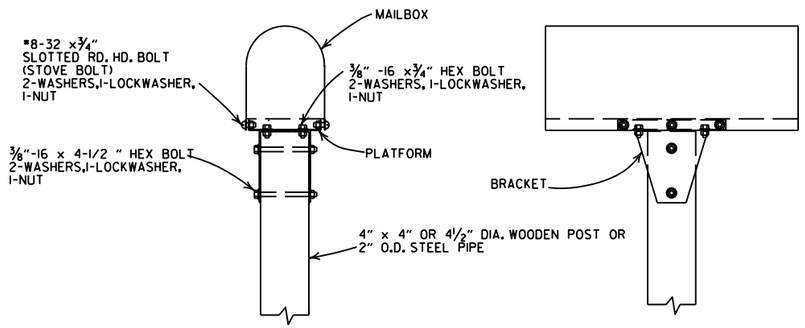
SHELF



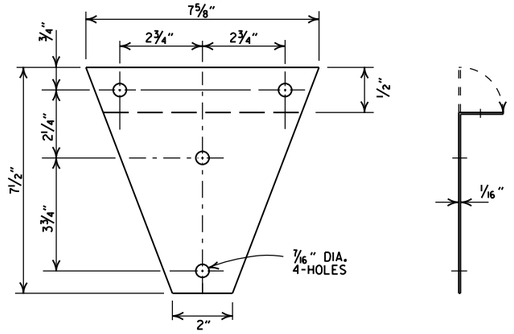


PLATFORM





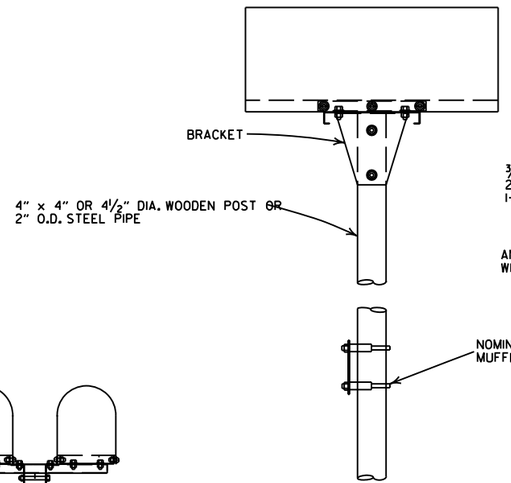
SINGLE INSTALLATION



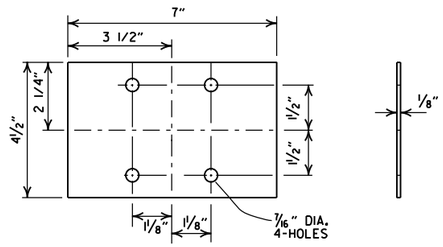
BRACKET

GENERAL NOTES

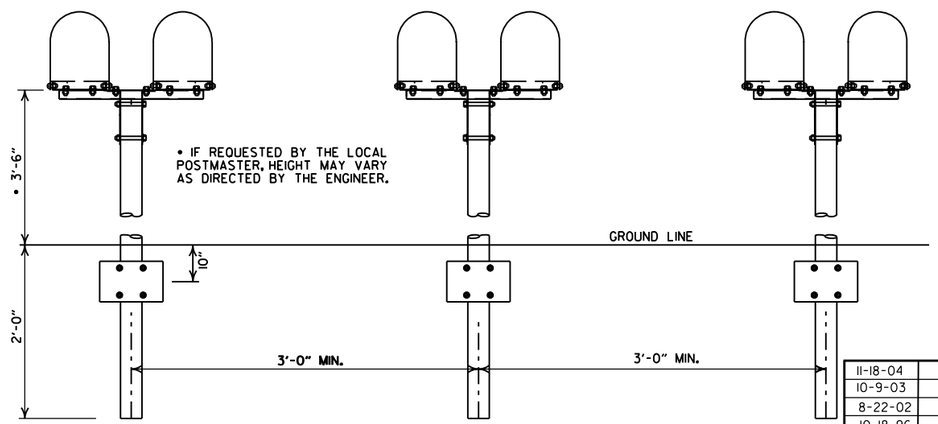
1. MAILBOX POSTS MAY BE WOOD OR METAL. WOOD POSTS SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH SECTION 637.02 OF THE STANDARD SPECIFICATIONS.
2. ANTI-TWIST PLATES SHALL BE USED ONLY ON METAL POSTS.
3. MAILBOX SHELF, BRACKET & PLATFORM SHALL BE GALVANIZED OR PAINTED STEEL, HOWEVER TREATED WOOD MAY BE USED WITH WOODEN POSTS. THE WOODEN SHELF, BRACKET & PLATFORM SHALL BE A MINIMUM OF ¾" 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 ARDOT QUALIFIED PRODUCTS LIST FOR MAILBOX SUPPORTS.



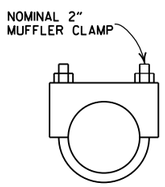
DOUBLE INSTALLATION



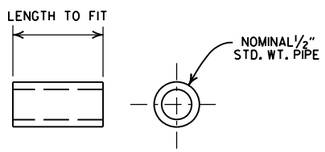
ANTI-TWIST PLATE



SPACING FOR MULTIPLE POST INSTALLATION



CLAMP



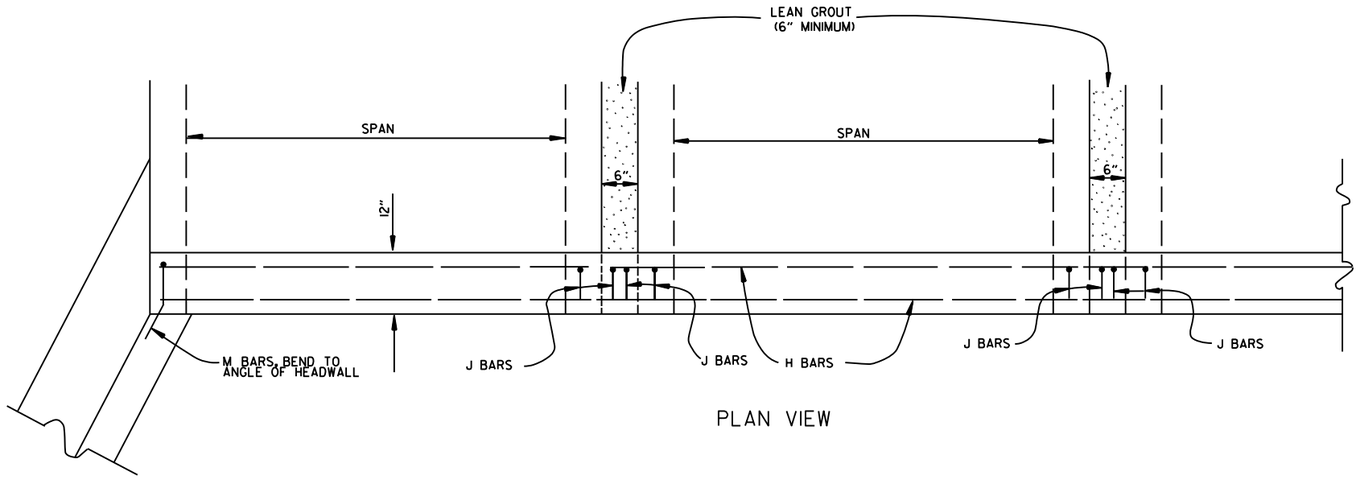
SPACER

DATE	FILMED	REVISION
11-18-04		REVISED NOTES
10-9-03		REVISED NOTE 6
8-22-02		REVISED NOTE 6
10-18-96		CORRECTED AASHTO
10-1-92		CORRECTED SPELLING
9-26-91		NEW PHONE NUMBER
8-15-91		ADDED NOTE
11-30-89		ADJUSTED HEIGHT & ADDED NOTE
2-16-89		DELETED SLOTS FROM SHELF & PLTF
11-17-88	10-1-92	ADJUSTED DIMENSIONS OF STEEL POSTS
7-15-88	20-7-15-88	ISSUED

ARKANSAS STATE HIGHWAY COMMISSION

MAILBOX DETAILS

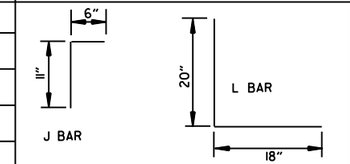
STANDARD DRAWING MB-1



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.

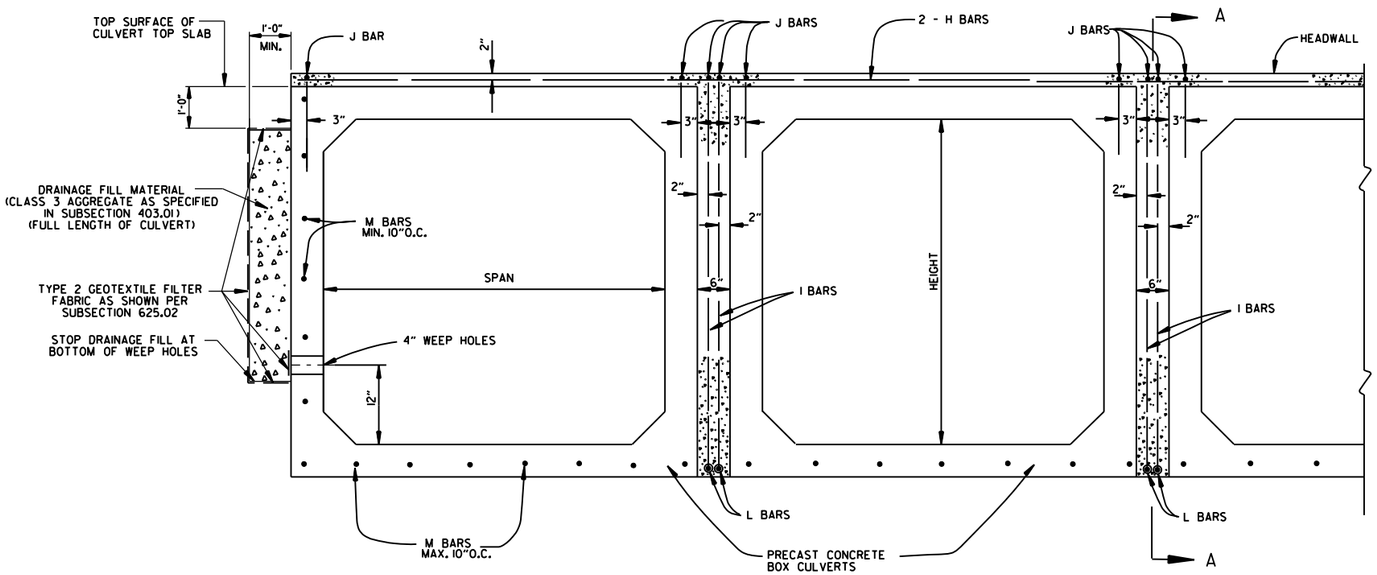
THE MEMBRANE WATERPROOFING WILL BE REQUIRED ON THE TOP EXTERNAL JOINT AND SHALL EXTEND 1 FOOT DOWN THE SIDES OF THE CULVERT.

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.

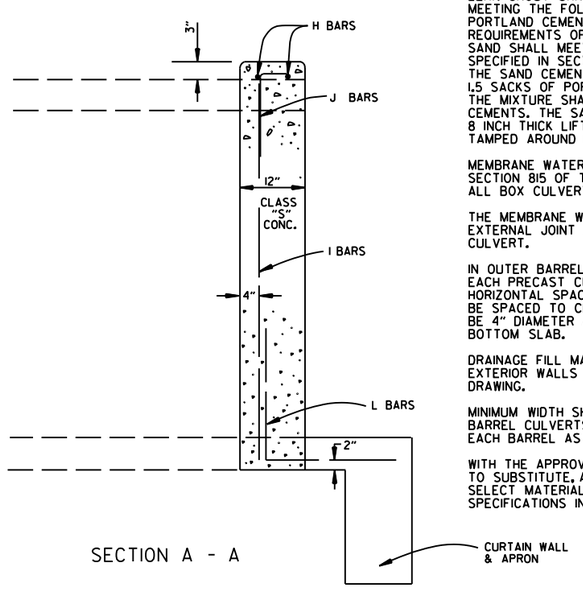
DRAINAGE FILL MATERIAL WITH GEOTEXTILE FABRIC IS REQUIRED AT THE EXTERIOR WALLS OF THE ASSEMBLED CULVERT, SEE DETAILS ON THIS DRAWING.

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	
11-10-05	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	ARDOT NOMINAL	AASHTO M 206	ARDOT NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13½	14
21	26	26	15½	16
24	28½	29	18	18
30	36¼	36	22½	23
36	43⅜	44	26⅝	27
42	51⅛	51	31⅜	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.

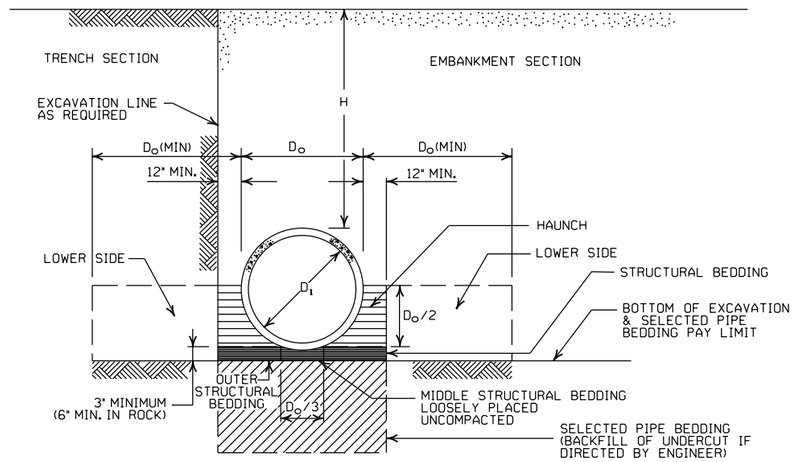
- LEGEND -

D_1 = NORMAL INSIDE DIAMETER OF PIPE
D_O = OUTSIDE DIAMETER OF PIPE
H = FILL COVER HEIGHT OVER PIPE (FEET)
MIN. = MINIMUM
= UNDISTURBED SOIL

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

* SM-3 WILL NOT BE ALLOWED.

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



EMBANKMENT AND TRENCH INSTALLATIONS

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

GENERAL NOTES

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

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

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

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

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)	① MINUMUM COVER TOP OF PIPE TO TOP OF GROUND "H" (FEET)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)				
		METAL THICKNESS IN INCHES				
		0.060	0.075	0.105	0.135	0.164
		2 ⅔ 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

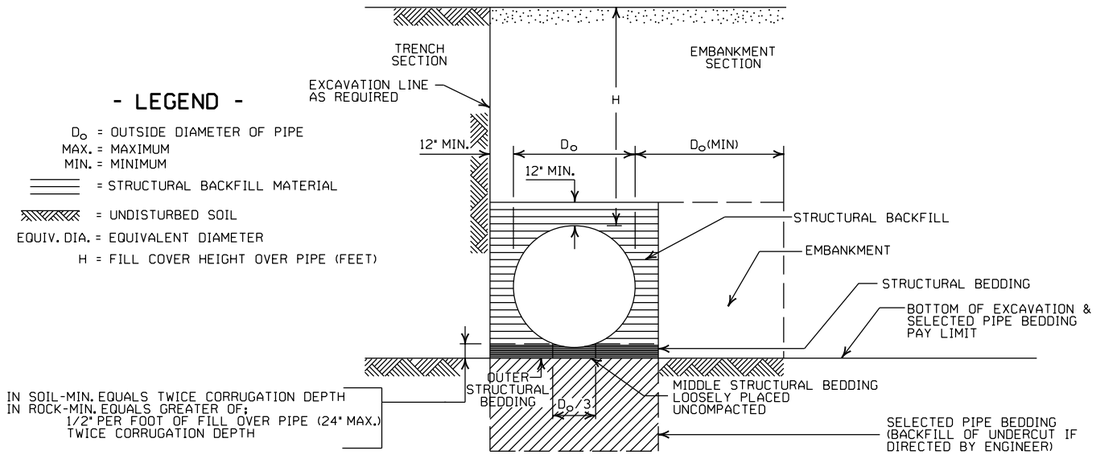
EQUIV. DIA. (INCHES)	PIPE DIMENSION SPAN X RISE (INCHES)	MINUMUM CORNER RADIUS (INCHES)	STEEL				ALUMINUM			
			MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)		MIN. THICKNESS REQUIRED INCHES	① MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)	
				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. INSTALALTION 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

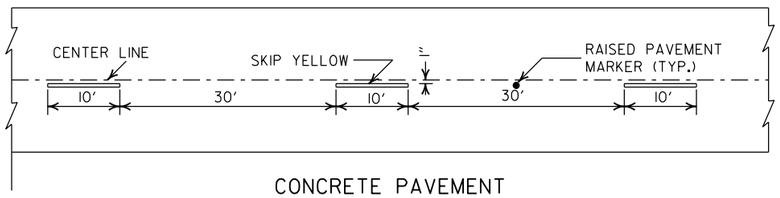
1. METAL PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD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

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

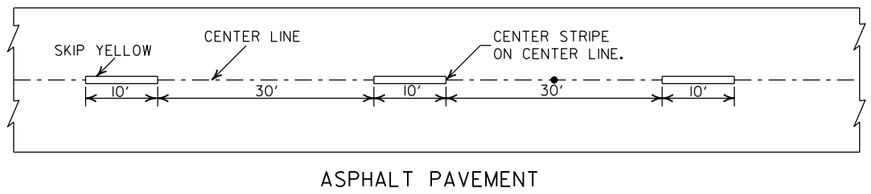
ARKANSAS STATE HIGHWAY COMMISSION

METAL PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCM-1

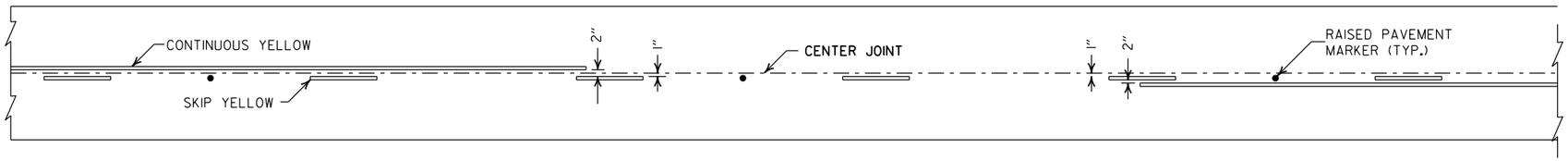


CONCRETE PAVEMENT

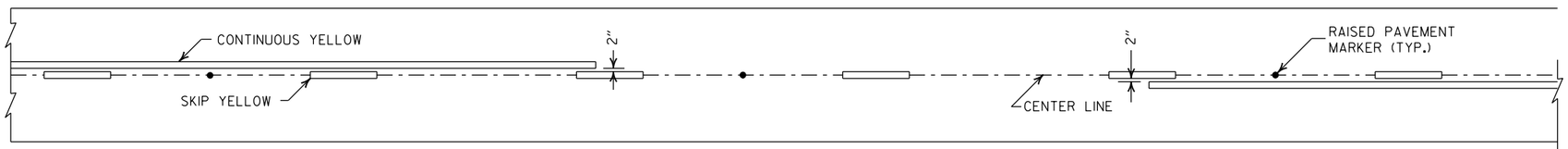


ASPHALT PAVEMENT

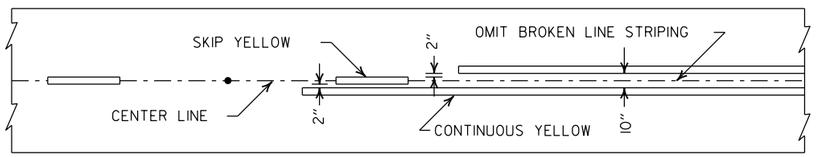
BROKEN LINE STRIPING



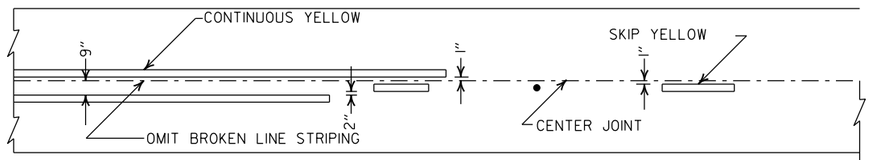
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT

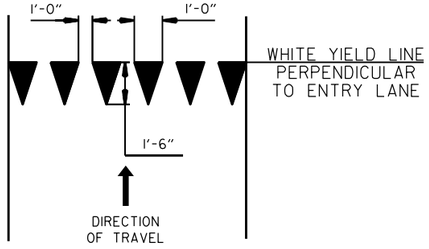


ASPHALT PAVEMENT

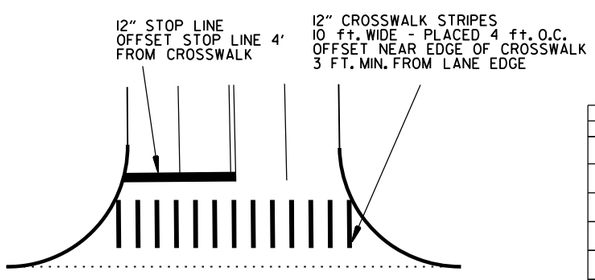


CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

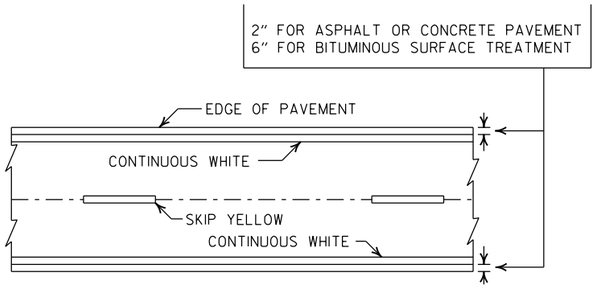


YIELD LINE DETAIL



CROSSWALK AND STOP LINE DETAILS

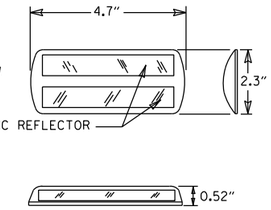
NOTES:
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.



PAVEMENT EDGE LINE MARKING

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 ARDOT QUALIFIED PRODUCTS LIST.

DETAIL OF STANDARD RAISED PAVEMENT MARKERS

DATE	REVISION	FILMED
2-27-20	REVISED STOP LINE DETAILS	
6-1-17	ADDED YIELD LINE DETAIL	
5-12-16	REVISED LINE WIDTHS, SPACING, & NOTES	
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
11-17-10	REVISED GENERAL NOTES & REMOVED PLOWABLE PVMT MRKRS	
11-18-04	REVISED NOTE 2 & GENERAL NOTES	
8-22-02	ADDED CROSSWALK & STOPBAR 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

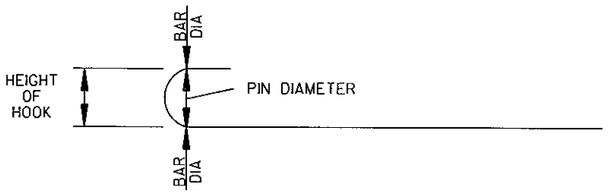
PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

STEEL FABRICATION: REINFORCING STEEL FABRICATION SHALL CONFORM TO THE DIMENSIONS LISTED IN THE TABLE BELOW:

BAR SIZE	PIN DIAMETER	HOOK EXTENSION "K"
3	2¼"	4"
4	3 "	4½"
5	3¾"	5"
6	4½"	6"
7	5¼"	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 2¾ 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

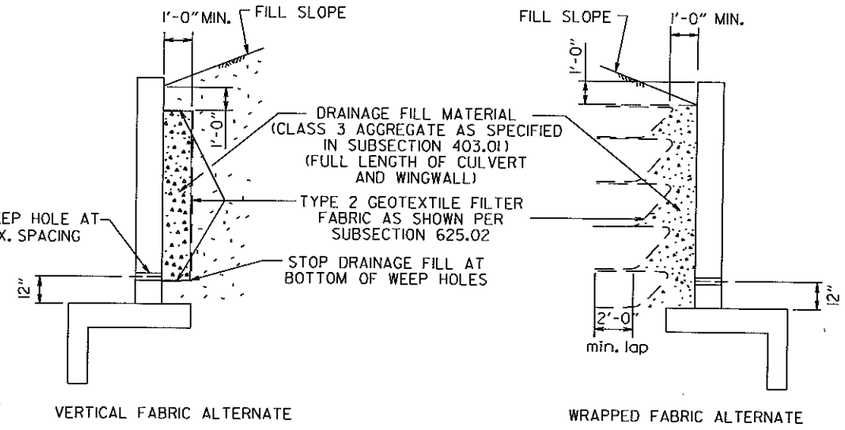
THE HOOKED BARS SHALL BE PLACED IN THE BOTTOM OF THE TOP SLAB AND THE TOP OF THE BOTTOM SLAB. THE STRAIGHT BARS SHALL BE PLACED IN THE TOP OF THE TOP SLAB AND THE BOTTOM OF THE BOTTOM SLAB. SEE TABLE BELOW FOR LENGTHS OF REPLACEMENT HOOKED AND STRAIGHT BARS.

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.

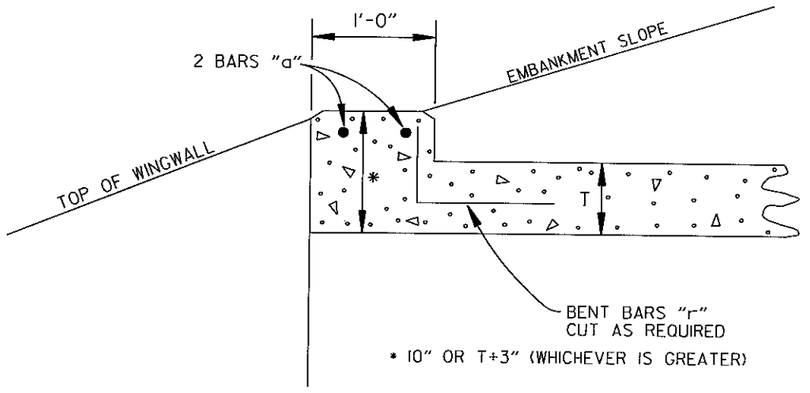
MEMBRANE WATERPROOFING SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS IN THE TOP SLAB AND THE SIDEWALLS OF R.C. BOX CULVERTS AS DIRECTED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THIS ITEM, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS BID FOR THE R.C. BOX CULVERT.

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 ½ 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.

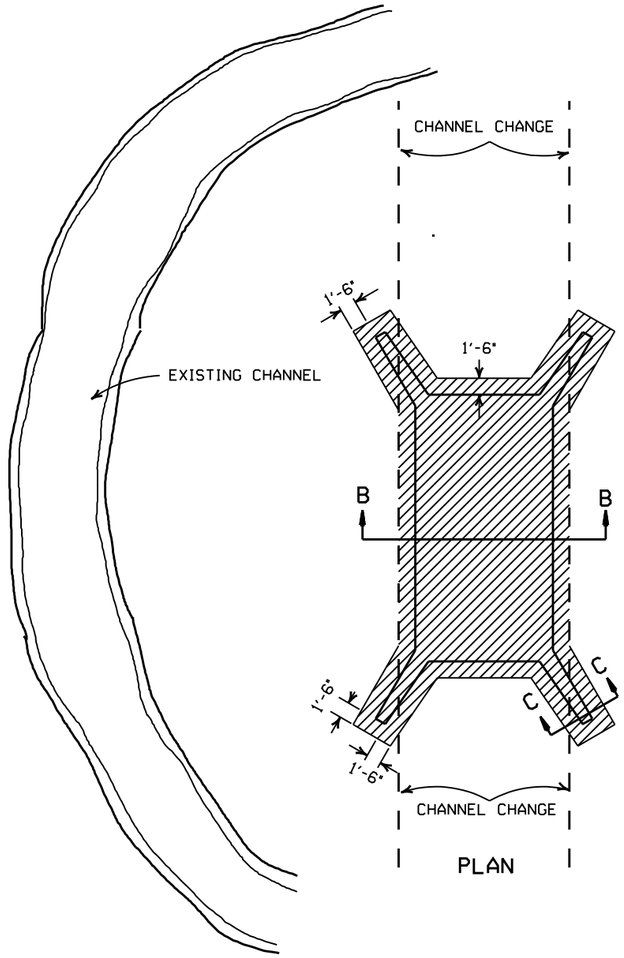
R.C. BOX CULVERT HEADWALL MODIFICATIONS

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	

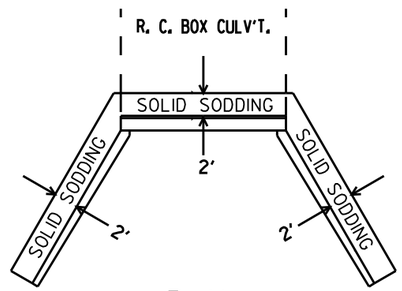
ARKANSAS STATE HIGHWAY COMMISSION

REINFORCED CONCRETE BOX CULVERT DETAILS

STANDARD DRAWING RCB-1



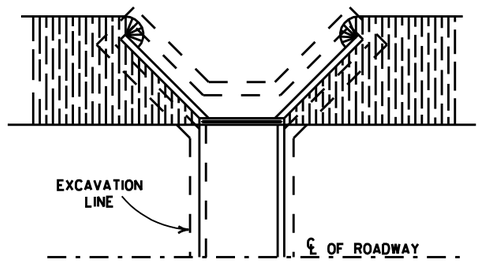
PLAN



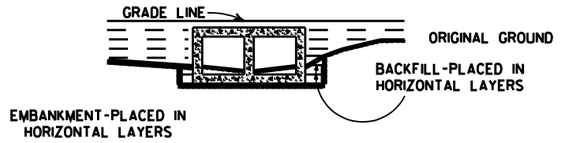
PLAN

PARTIAL SECTION SHOWING SOLID SODDING AT HEADWALLS AND WING WALLS

NOTE: LENGTH MEASURED ALONG THE CENTER OF 2' STRIP OF SOLID SODDING.

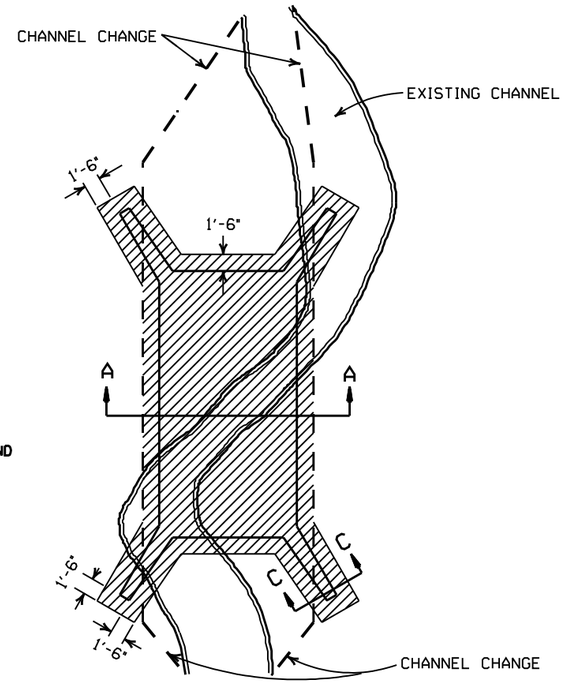


PLAN

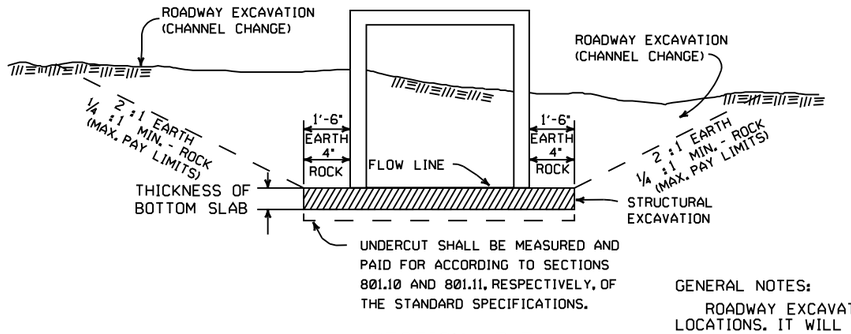


LONGITUDINAL SECTION

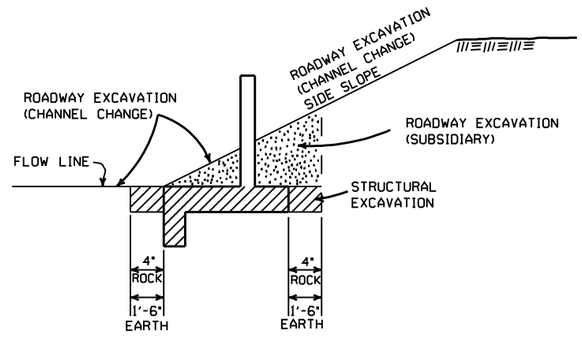
BACKFILL DETAILS FOR BOX CULVERT



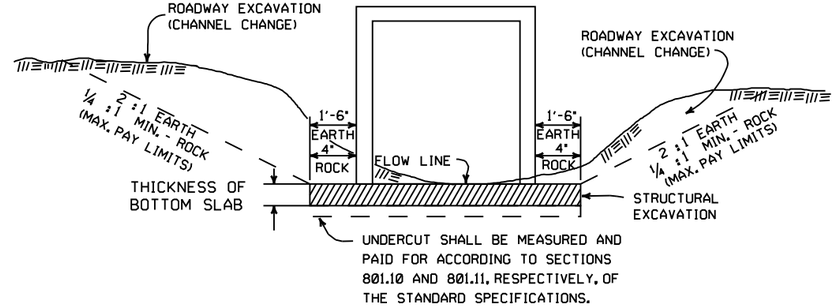
PLAN



SECTION B-B



SECTION C-C



SECTION A-A

DETAILS FOR NEW CHANNELS

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.

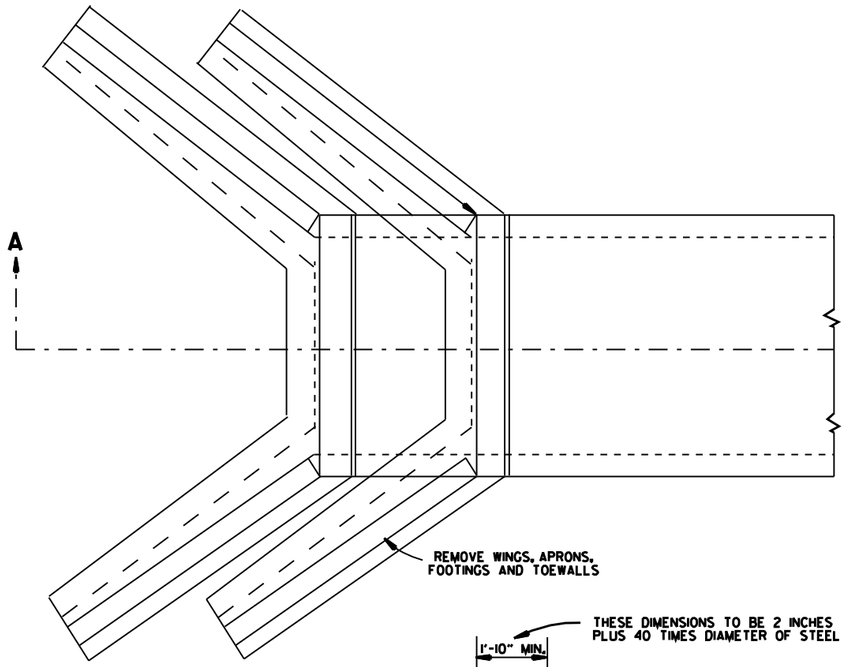
ROADWAY EXCAVATION SHOWN IN SECTION C-C ABOVE AS SUBSIDIARY WILL NOT BE MEASURED OR PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.

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

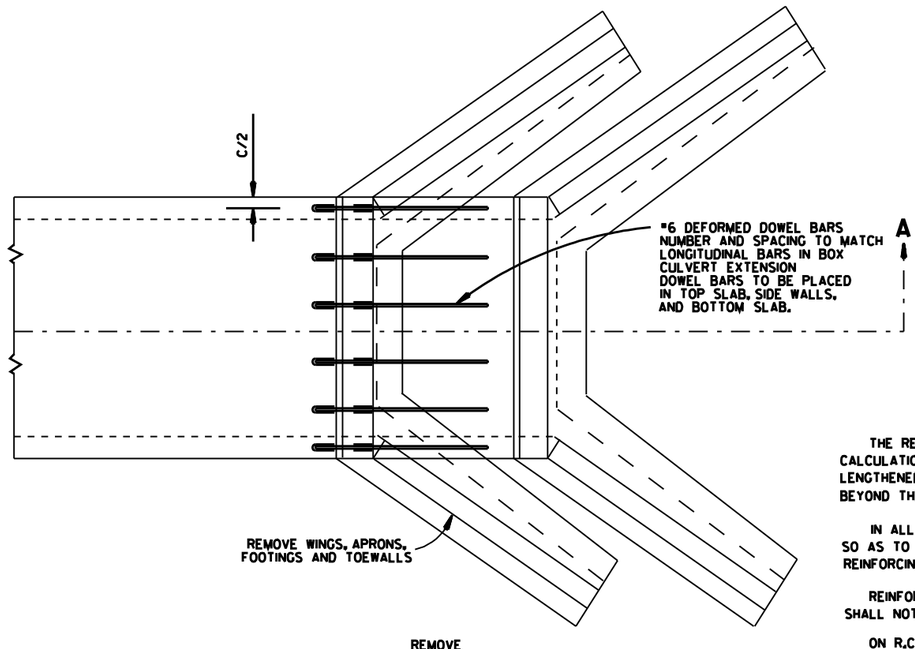
STANDARD DRAWING RCB-2



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.

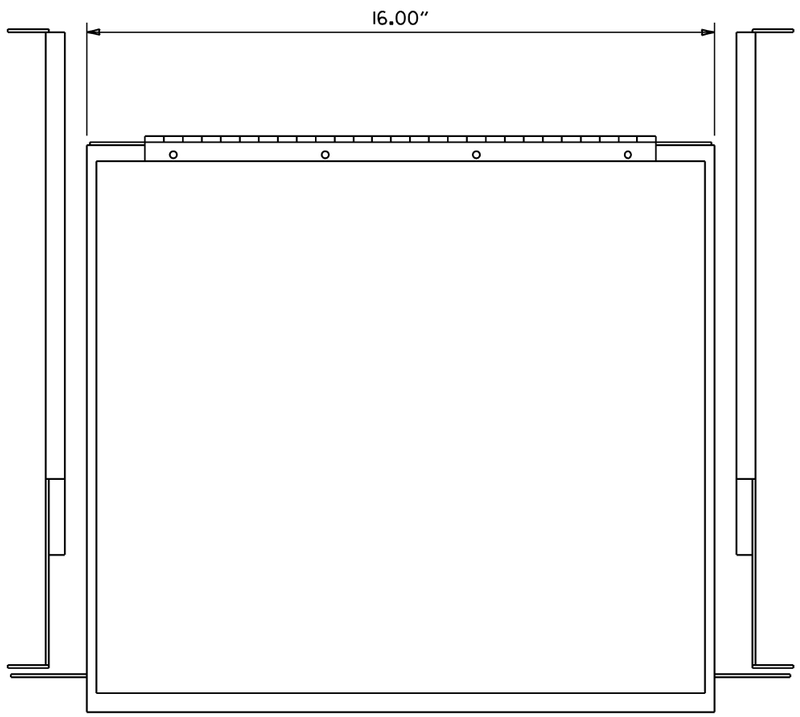
DATE	REVISION	DATE FILM
10-12-95	CHANGED DRAWING # FROM 144-A	
4-1-93	ADDED GENERAL NOTE	
10-1-92	ADDED ALT. METHOD OF EXTENSION	
11-30-89	REDRAWN	
1-4-83	ELIMINATED CONCRETE CLASS	
12-20-56	RETRACED	

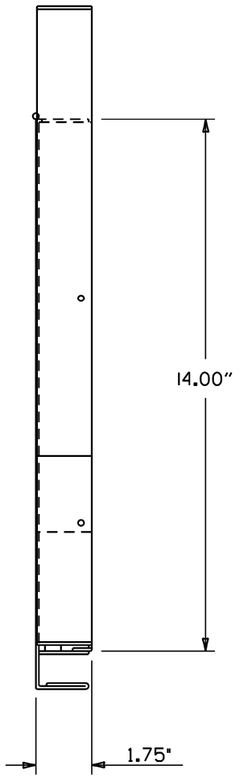
ARKANSAS STATE HIGHWAY COMMISSION

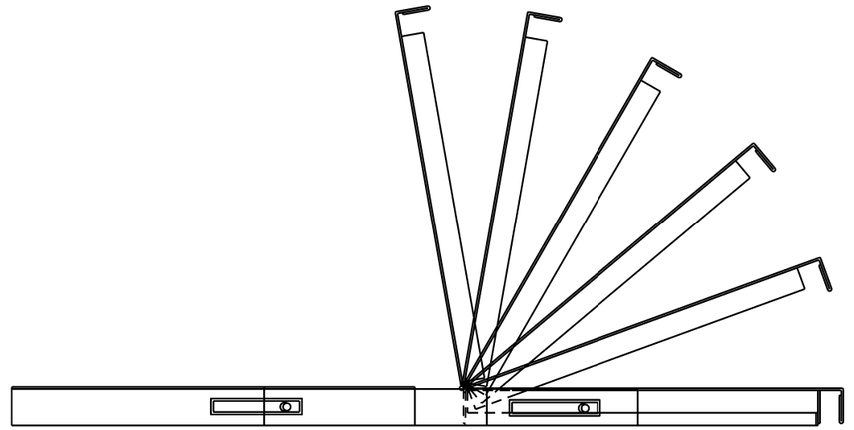
METHOD OF EXTENDING EXISTING R.C. BOX CULVERTS

STANDARD DRAWING RCB-3

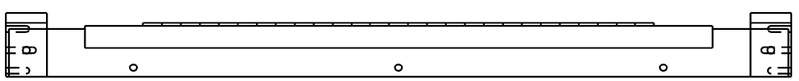
DRAWER PLAN VIEW



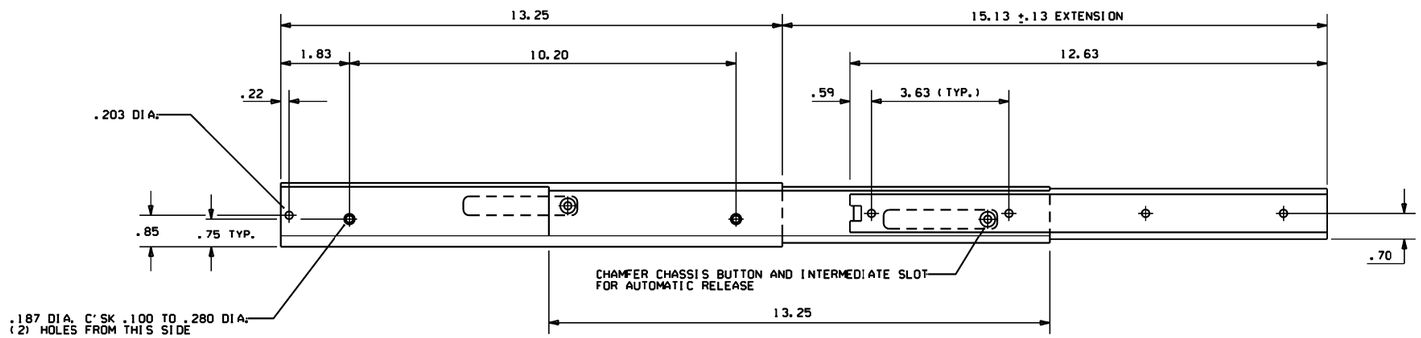




NOTES:
1. RIGHT HAND SLIDE SHOWN, LEFT SLIDE OPPOSITE.
2. GENERAL DEVICES (CC3002-99-0102) OR EQUAL AND CONTAINS (1) RIGHT HAND SLIDE ASSEMBLY, (1) LEFT HAND SLIDE ASSEMBLY.
3. ALL HARDWARE NECESSARY TO FASTEN SLIDE ASSEMBLY TO UNDERSIDE OF CONTROLLER SHELF SHALL BE INCLUDED.



FRONT VIEW



RIGHT SIDE ASSEMBLY

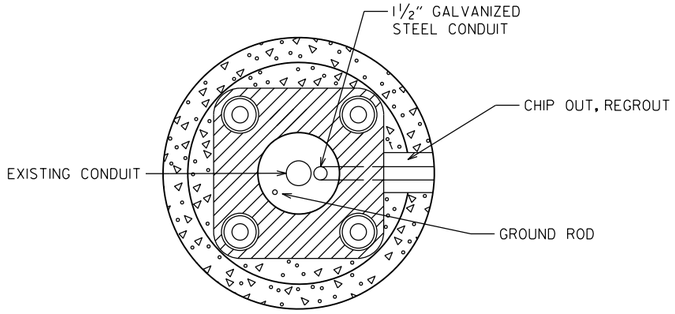
DATE	REVISION	DATE FILM
9-12-13	ISSUED AS STANDARD DRAWING	
6-15-05	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

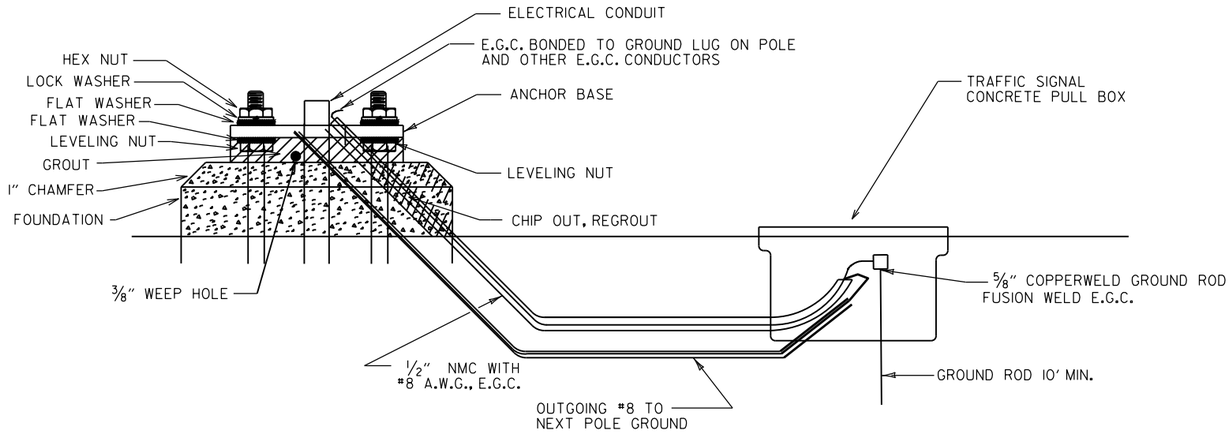
CONTROLLER CABINET UTILITY DRAWER

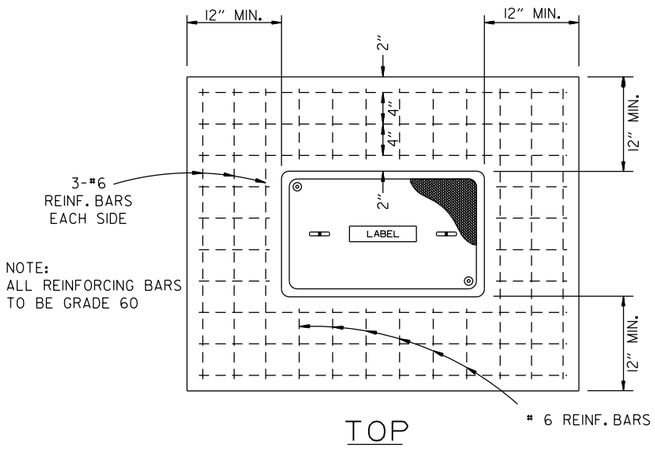
STANDARD DRAWING SD-5

CONDUIT ENTRY TO EXISTING POLE BASE



ANCHOR BASE





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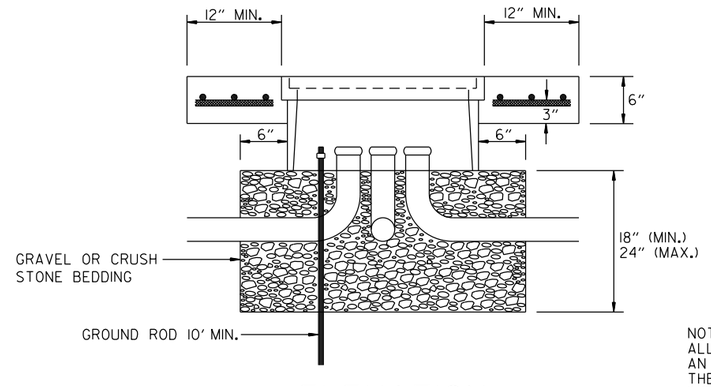
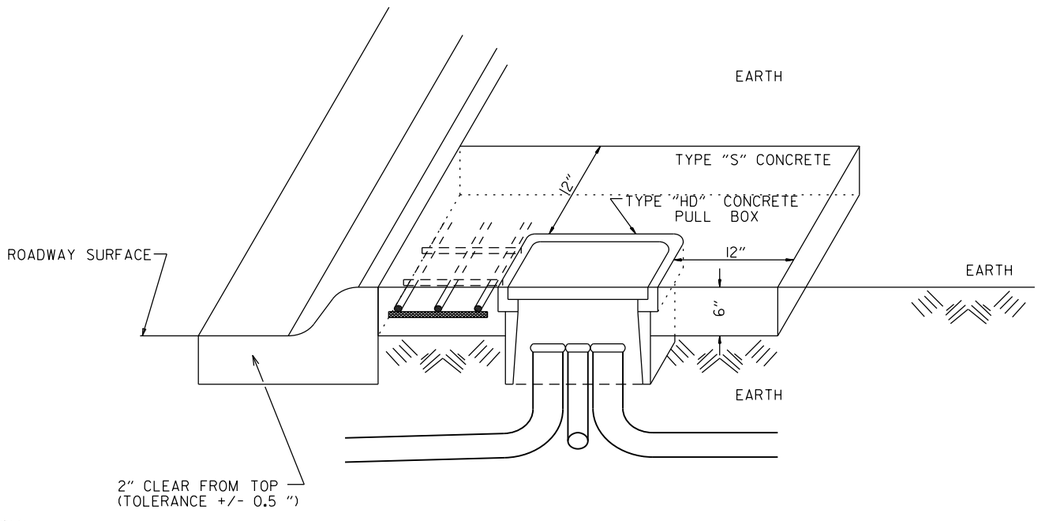


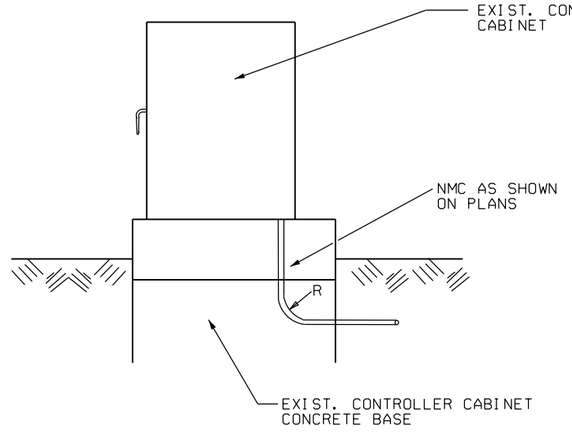
ELEVATION

TYPE "HD" CONCRETE PULL BOX DETAIL



NOTE:
ALL TYPE 1 HD, TYPE 2 HD, AND TYPE 3 HD CONCRETE PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" WIDE AND 6" IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD CONCRETE PULL BOX. THE CONCRETE PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S". THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE CONCRETE PULL BOX IS REQUIRED IN CONCRETE.

CONDUIT ENTRY TO EXISTING CONTROLLER CABINET



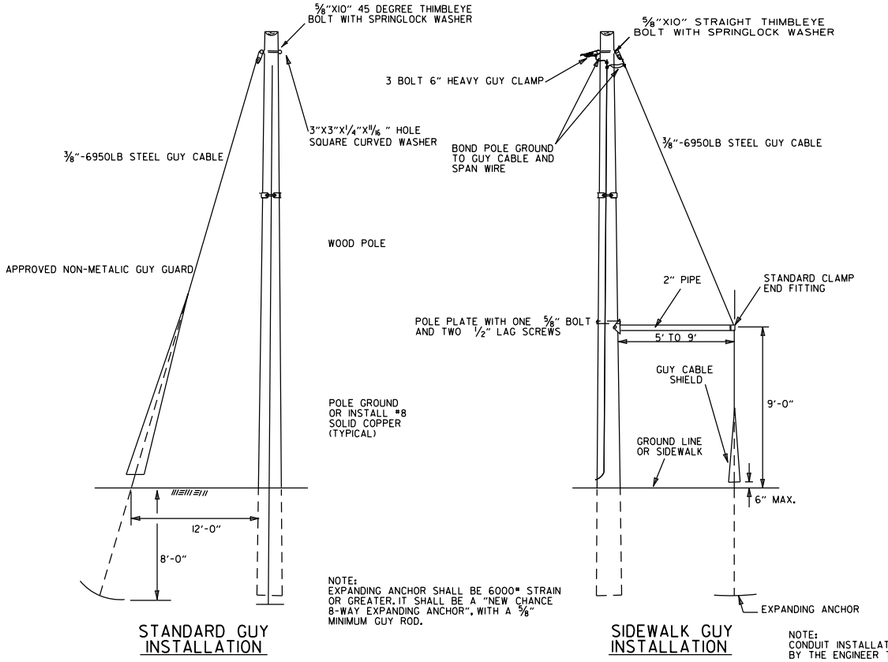
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

DATE	REVISION	FILMED
02-13-24	REVISED NOTES AND TYPE "HD" CONCRETE PULL BOX DETAILS	
11-16-17	REVISED NOTES	
09-02-15	REVISED PULL BOX DEPTH	
09-12-13	ISSUED AS STANDARD DRAWING	
05-21-09	REVISED GROUNDING	
07-31-08	ADDED & REVISED CONDUIT ENTRY	
06-23-04	REVISED CLEARANCE AT CURB ENTRY	
01-04-02	ADDED REINFORCING TO BOX APRON	
07-02-01	REVISED	
12-27-99	REVISED NOTES	
11-18-98	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

HEAVY DUTY PULL BOX

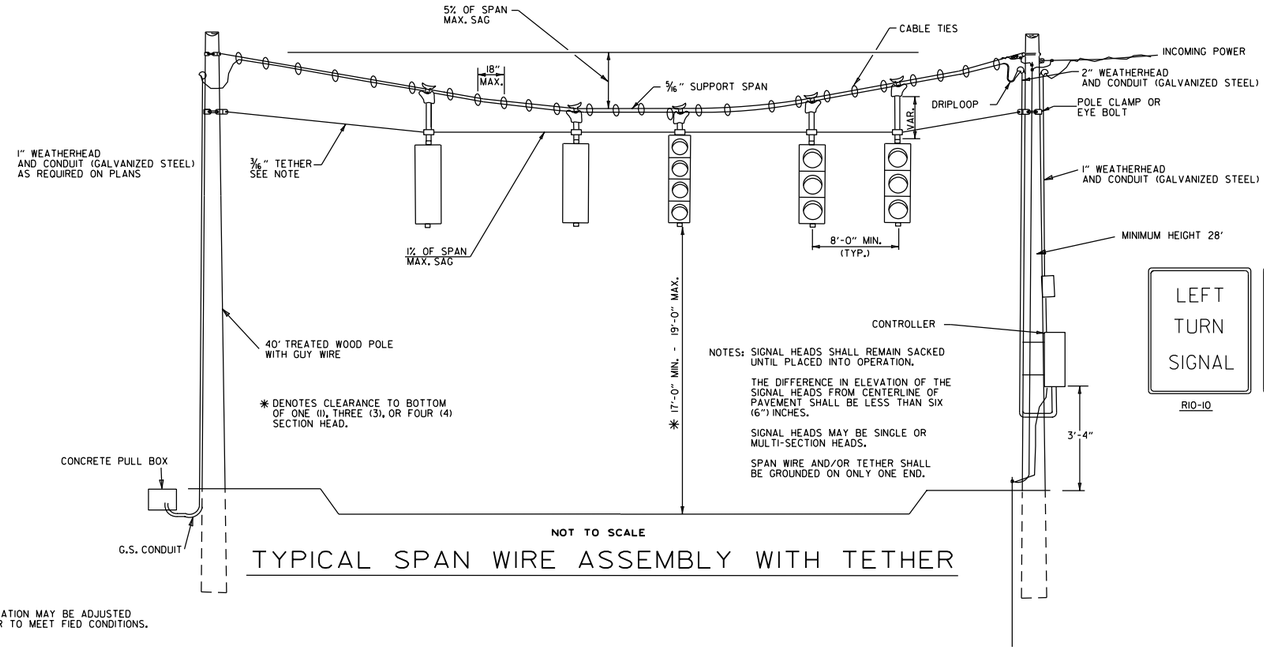
STANDARD DRAWING SD-6



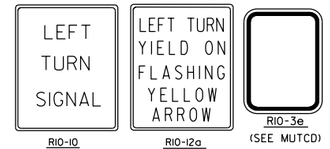
STANDARD GUY INSTALLATION

SIDEWALK GUY INSTALLATION

NOTE: CONDUIT INSTALLATION MAY BE ADJUSTED BY THE ENGINEER TO MEET FIED CONDITIONS.



TYPICAL SPAN WIRE ASSEMBLY WITH TETHER

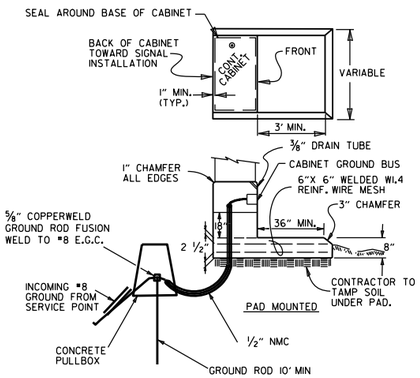


NOTES:
SPAN WIRE POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

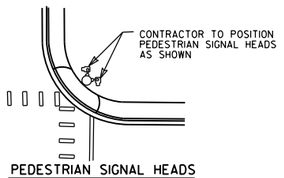
SPAN WIRE ASSEMBLIES WILL REQUIRE TETHER UNLESS OTHERWISE NOTED ON PLAN SHEETS.

CABLE TIES SHALL BE SUITABLE FOR OUTSIDE USE (BLACK).

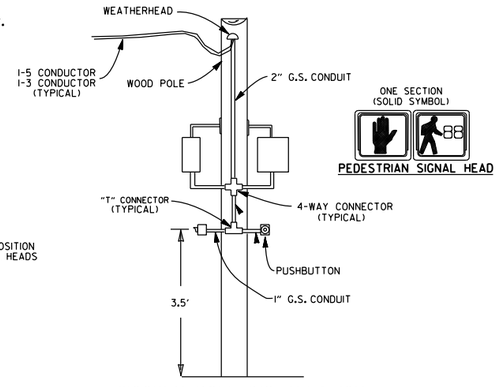
THE CONTROLLER POWER SUPPLY GROUND BUSS SHALL BE BONDED TO THE FOUNDATION GROUND ROD WITH A #8 A.W.G. SOLID COPPER WIRE. ON EXISTING FOUNDATIONS WITH NO GROUND ROD, CONTRACTOR SHALL INSTALL A 10' X 5/8" COPPERWELD GROUND ROD.



CONCRETE BASE MOUNTED CABINET DETAILS

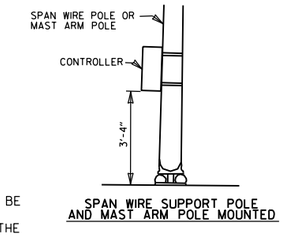


PEDESTRIAN SIGNAL HEADS

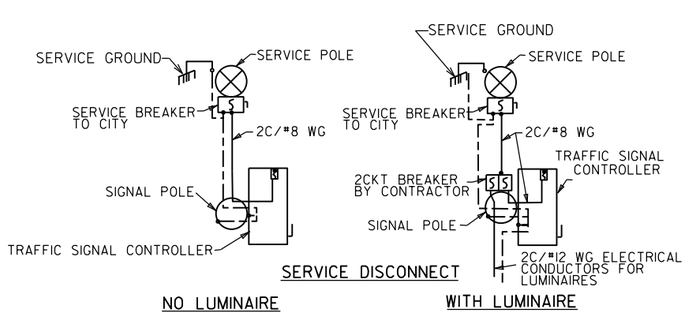


WOODEN POLE INSTALLATION OF PED HEADS

PEDESTRIAN SIGNAL HEAD



SPAN WIRE SUPPORT POLE AND MAST ARM POLE MOUNTED



SERVICE DISCONNECT

NO LUMINAIRE WITH LUMINAIRE

NOTE: ELECTRICAL GROUND CONDUCTOR IS BONDED TO ALL METAL ENCLOSURES

NOTES:

EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., 1-WAY)" SHALL INCLUDE A SIGN (R10-12a) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD UNLESS REMOVED WITHIN SIGNAL PLAN NOTES.

EACH ITEM "TRAFFIC SIGNAL HEAD (3 SEC., 1-WAY)", TO BE USED AS A LEFT TURN INDICATION ONLY, SHALL INCLUDE A SIGN (R10-10) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209, ALLOY 5052-H38) WITH A THICKNESS OF 0.100 INCH.

ALL SIGN FACES SHALL BE CONSTRUCTED OF HIGH INTENSITY SHEETING (TYPE III) WITH SILKSCREEN LEGEND AND BORDER.

SIGNAL OPERATION NOTES:

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS. SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY, EXCEPT FRIDAY.

THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD. AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATIONS IN FLASH SEQUENCE.

CABINET NOTE:

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CABINET ORIENTATION SHALL BE SUCH THAT THE BACK OF THE CABINET IS PARALLEL TO THE STREET AND POSITIONED TO ALLOW VISIBILITY OF THE SIGNAL DISPLAY WHILE OBSERVING THE CONTROLLER FRONT PANEL.

MINIMUM STRUCTURAL REQUIREMENTS:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006 INTERIMS.

CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH THICKNESS GREATER THAN 1/2" SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

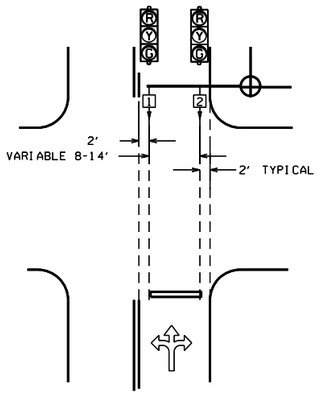
DATE	REVISION	FILMED
02-13-24	REVISED SPECIAL SIGN TO R10-12a SIGN	
11-16-17	REVISED NOTES, ADDED SPAN WIRE SUPPORT POLE DETAIL, ADDED PEDESTRIAN SIGNAL HEAD DETAIL	
02-27-14	REVISED NOTES.	
09-12-13	ISSUED AS STANDARD DRAWING	
07-21-11	REVISED PEDESTRIAN SIGN & GROUNDING	
04-17-08	REVISED TO 2001 AASHTO STANDARDS	
10-12-04	REV. CABINET ORIENTATION & SIGNAL OPERATION	
05-22-02	REV. TYP. SPAN WIRE ASSEMBLY	
12-27-99	REVISED	
11-18-98	REVISION TO NOTES	
11-21-95	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SPAN WIRE ASSEMBLY WOOD POLE

STANDARD DRAWING SD-7

(A)



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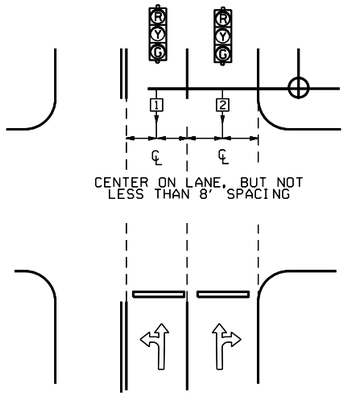

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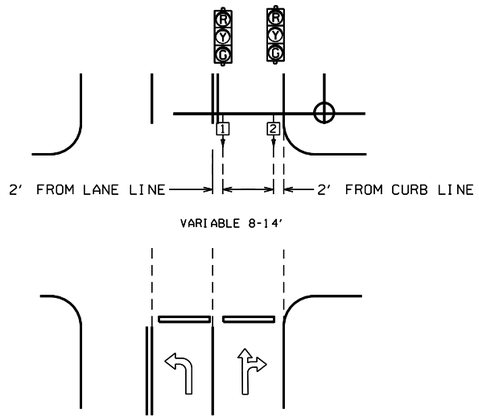
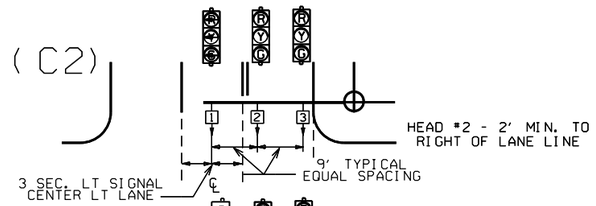


(C2)



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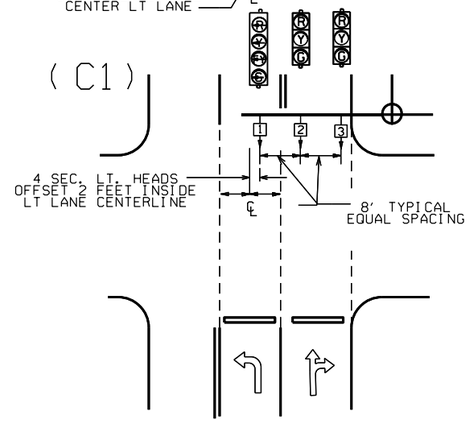

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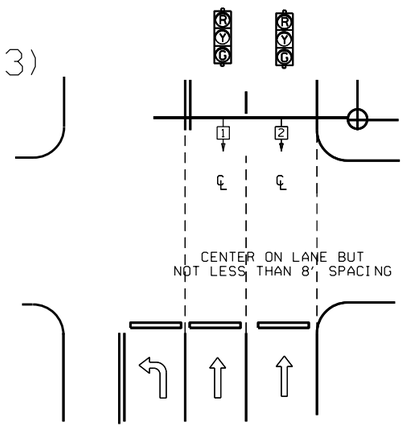

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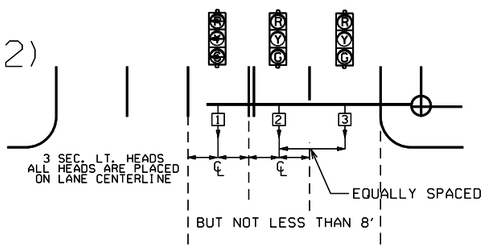

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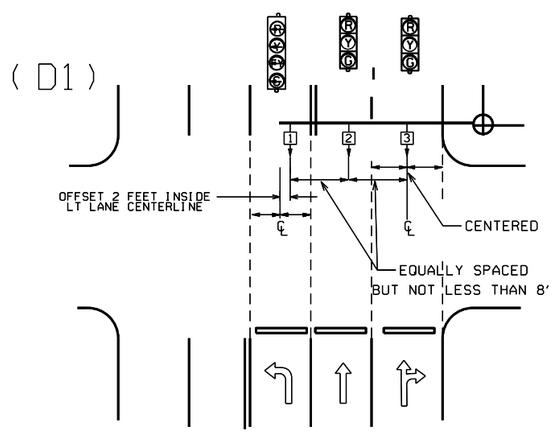
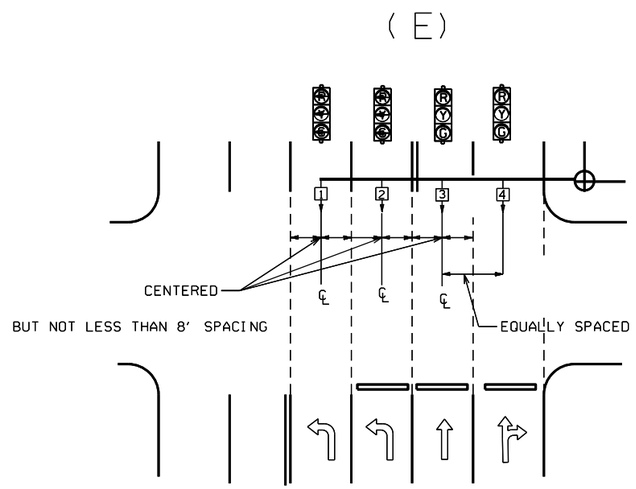


NOTE: WHERE LEFT TURN HEAD (HEAD 1 ON D1 AND D2) IS NOT CALLED FOR ON PLANS, MAST ARM LENGTH MAY STILL BE ALLOWED FOR FUTURE INSTALLATION. HEADS FOR THROUGH MOVEMENTS SHALL STILL BE ALIGNED WITH THROUGH LANES AS SHOWN ON DETAILS.

(E)



℄ = CENTER OF LANE FROM APPROACH SIDE

GENERAL NOTES:

1. FOUR SECTION "PROTECTED/PERMISSIVE" LEFT TURN HEADS SHOULD BE PLACED A MINIMUM OF TWO (2') FEET TO THE RIGHT OF THE CENTERLINE OF THE APPROACHING LEFT TURN LANE.

2. THREE SECTION "PROTECTED" LEFT TURN HEADS SHOULD BE PLACED ON THE CENTERLINE OF THE APPROACHING LEFT TURN LANE.

3. WHEN IT IS NECESSARY TO PLACE POLES OTHER THAN AS SHOWN ON PLAN SHEET(S) RESULTING IN MAST ARM EXTENDING MORE THAN TWO FEET PAST (TO THE LEFT OF) THE CENTERLINE OF THE APPROACHING LEFT TURN LANE, MAST ARM SHALL BE CUT TO APPROPRIATE LENGTH AS DETERMINED BY THE ENGINEER, AND A NEW END CAP PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THIS PRIOR TO INSTALLING THE MAST ARM IF ADDITIONAL COMPENSATION IS REQUIRED.

4. SIGNAL HEAD SPACING SHALL, IN NO CASE, BE LESS THAN EIGHT (8') FEET BETWEEN HEADS ON CENTER, MEASURED HORIZONTALLY PERPENDICULAR TO THE APPROACH.

5. ALL SIGNAL HEADS SHOWN ON THIS DETAIL SHEET SHALL BE LOCATED ACCORDING TO THE DIMENSIONS SHOWN IN RELATION TO THE APPROACH SIDE OF THE INTERSECTION.

6. MAXIMUM MOUNTING HEIGHT OF SIGNAL FACES LOCATED BETWEEN 40 FEET AND 53 FEET FROM STOP BAR SHALL BE IN ACCORDANCE WITH FIGURE 4D-5 OF 2009 MUTCD.

12-8-16	REVISED NOTE 6	
9-12-13	ISSUED AS STANDARD DRAWING	
3-11-10	2009 MUTCD	
12-9-99	ISSUED	
DATE	REVISION	DATE FILM

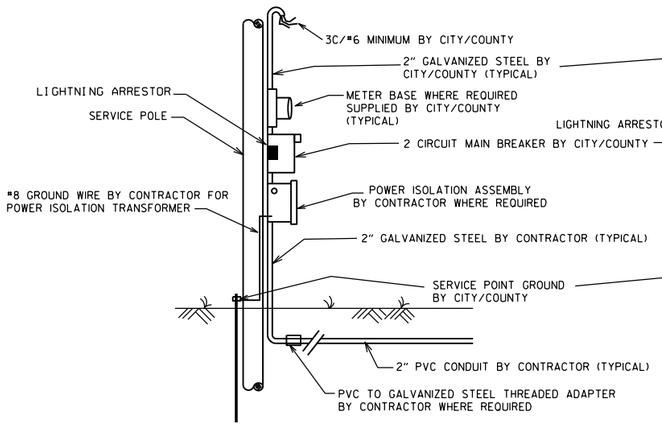
ARKANSAS STATE HIGHWAY COMMISSION

SIGNAL HEAD PLACEMENT

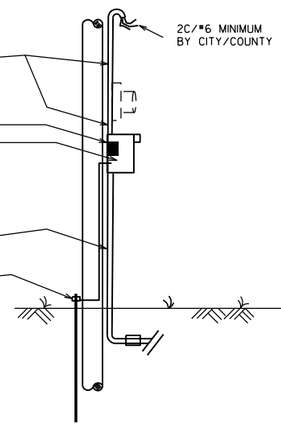
STANDARD DRAWING SD-8

MAIN BREAKER NOT NEAR CONTROLLER CABINET SECONDARY REQUIRED

WITH POWER ISOLATION ASSEMBLY



WITHOUT POWER ISOLATION ASSEMBLY



NOTES TO CONTRACTOR AND AGENCY RESPONSIBLE FOR MAINTENANCE OF THE INTERSECTION (CITY/COUNTY):

ELECTRICAL SERVICE TYPICALLY FALLS INTO TWO CATEGORIES:
MAIN BREAKER NEAR CONTROLLER CABINET; AND MAIN BREAKER NOT NEAR CONTROLLER CABINET. THE CONTRACTOR'S AND THE CITY'S/COUNTY'S RESPONSIBILITY VARIES ACCORDINGLY AS INDICATED ON THESE DETAILS.

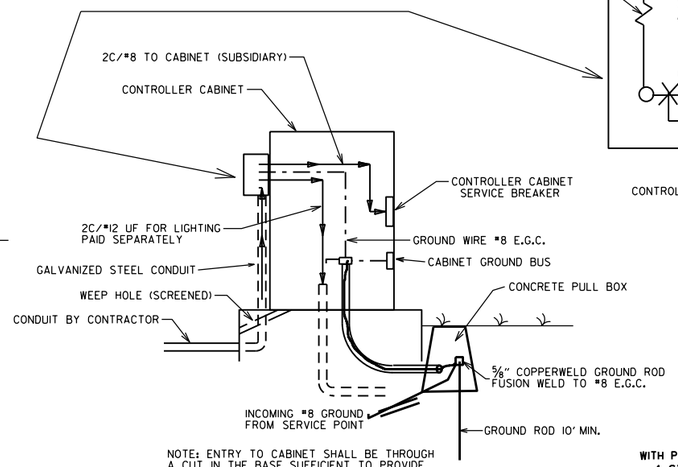
ALL SITUATIONS:
ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POINT 18" BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, LIGHTNING ARRESTOR, POWER ISOLATION ASSEMBLY WHERE REQUIRED, METER LOOP IF REQUIRED BY LOCAL UTILITY COMPANY, ELECTRICAL CONDUCTORS AND WEATHERHEAD. WHERE STREET LIGHTING IS INCLUDED AS PART OF SIGNAL INSTALLATION STREET LIGHTING CIRCUIT (2C/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT SEPARATE FROM THE CIRCUIT SERVING TRAFFIC SIGNAL. SERVICE WIRE AND WIRING FROM THE CONTROLLER TO MAIN BREAKER IS PROVIDED BY THE CONTRACTOR AS A PART OF THIS CONTRACT. WIRE AND WIRING FROM MAIN BREAKER, AND CONNECTION TO THE UTILITY IS THE RESPONSIBILITY OF THE CITY/COUNTY.

MAIN BREAKER NOT NEAR CONTROLLER CABINET:
THE MAIN BREAKER ASSEMBLY, GALVANIZED STEEL CONDUIT. WEATHERHEAD AND WIRE ABOVE MAIN BREAKER AND CONNECTION TO THE UTILITY SHALL BE PROVIDED BY CITY/COUNTY. CONTRACTOR SHALL PROVIDE AS PART OF CONTRACT SECONDARY BREAKER, CONDUIT, WIRE AND WIRING TO THE MAIN BREAKER.

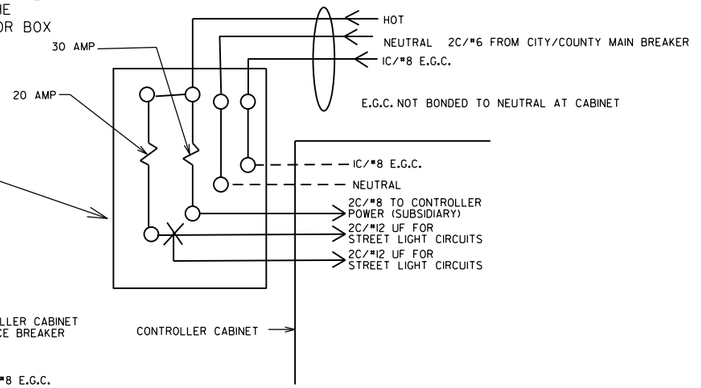
MAIN BREAKER NEAR CONTROLLER CABINET:
ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FURNISHED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP IS REQUIRED, METER BASE AND HARDWARE IS PROVIDED BY THE CITY/COUNTY AND INSTALLED BY THE CONTRACTOR.

GROUND ROD - A 10' X 5/8" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER. PAYMENT FOR THE GROUND ROD AND 1/2" NMC SHALL BE INCLUDED IN ITEM 701. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID FOR SEPARATELY.

SECONDARY BREAKER BY CONTRACTOR (SUBSIDIARY)



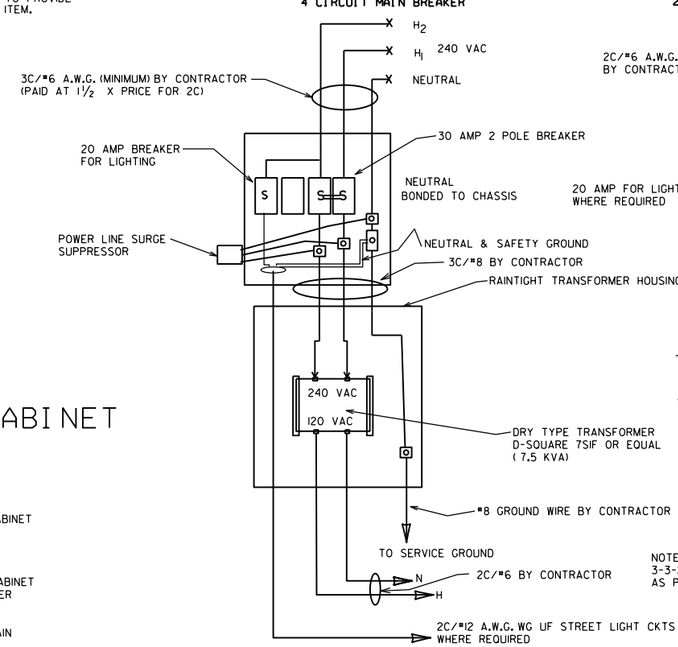
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.



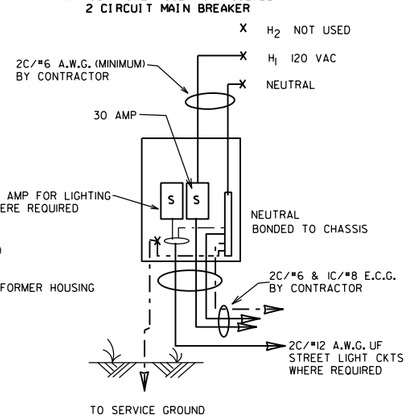
MAIN BREAKER WIRING (TYPICAL)

SERVICE GROUND IS TYPICALLY TIED TO NEUTRAL AT THE MAIN BREAKER. AS SUCH, CONTROLLER GROUND IS NOT TIED TO NEUTRAL AT SECONDARY BREAKER OR IN CONTROLLER CABINET.

WITH POWER ISOLATION ASSEMBLY
4 CIRCUIT MAIN BREAKER

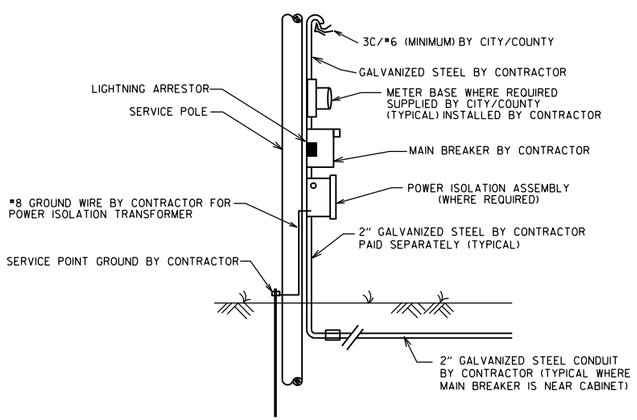


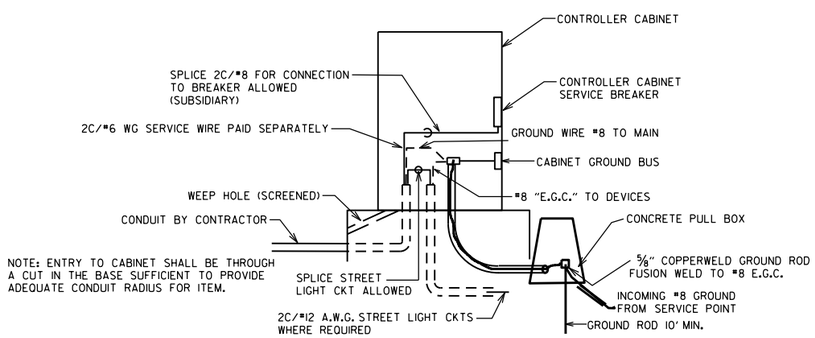
WITHOUT POWER ISOLATION ASSEMBLY
2 CIRCUIT MAIN BREAKER



NOTE: ELECTRICAL GROUND CONDUCTOR (E.C.G.) ADDED 3-3-2003, CONSISTING OF A IC/#8 A.W.G. CU GREEN WIRE AS PER NATIONAL ELECT. CODES.

MAIN BREAKER NEAR CONTROLLER CABINET SECONDARY NOT REQUIRED





NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

DATE	REVISION	FILMED
11-07-19	REVISED	
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
04-18-13	ADDED LIGHTNING ARRESTOR	
05-21-09	REVISED GROUNDING	
07-31-08	REVISED GROUNDING	
03-03-03	ADDED EGC NOTE	
09-26-01	REVISED	
12-27-99	REVISED	
07-28-99	REVISED	
02-05-99	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SERVICE POINT

STANDARD DRAWING SD-9

NOTES:
PEDESTRIAN AND TRAFFIC SIGNAL HEAD SIGNS:
EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., 1-WAY)" SHALL INCLUDE A SIGN (RIO-12a) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD UNLESS REMOVED WITHIN THE SIGNAL PLAN NOTES.

EACH ITEM "TRAFFIC SIGNAL HEAD (3 SEC., 1-WAY)" TO BE USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (RIO-10) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE RIO-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209, ALLOY 5052-H38) WITH THICKNESS OF 0.100 INCH.

GENERAL NOTES:
1. MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS OF THE PLANS SPECIFICATIONS CAN BE INSTALLED IN LIEU OF ROUND. ALL POLES AND ARMS IN A JOB MUST BE THE SAME SHAPE.

3. MINIMUM STRUCTURAL REQUIREMENTS:
DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006 INTERIMS.

USE FATIGUE CATEGORY I FOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY II FOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH MAST ARMS LESS THAN 60' AND ON ROUTES WHERE THE SPEED LIMITS OF 45 MPH AND LESS WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY III FOR ALL STRUCTURES WHERE THE SPEED LIMIT IS 45 MPH AND LESS AND MAST ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS:
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH.

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN ½" SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD: AS A MINIMUM, DESIGN SHALL BE BASED ON THE FIXED ATTACHMENTS SHOWN BELOW OR AS MODIFIED IN THE PLANS.

ALL SIGNAL HEADS TO BE ONE WAY, TWELVE (12") INCH AND HAVE FIVE (5") INCH BACK PLATES:

SIGNAL HEADS AT THE END OF MAST ARM - ONE 4 SEC., 85 LB., 14.5 SQ. FT., ONE SIGN MOUNTED 3 FEET FROM SIGNAL HEAD (2'-0" X 2'-6"; 20 LB.) REMAINING SIGNAL HEADS SPACED AT 8 FT. (3 SEC., 56 LB., 8.3 SQ. FT.):
DESIGN TO ACCOMMODATE:
2 SIGNAL HEADS FOR MAST ARMS 10 FT. TO 16 FT.
3 SIGNAL HEADS FOR MAST ARMS 18 FT. TO 24 FT.
4 SIGNAL HEADS FOR MAST ARMS OVER 26 FT.

STREET NAME SIGN - 72" X 18", 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAT 12 FT. FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT.
ROADWAY LUMINAIRES (WHERE REQUIRED ON PLAN SHEET) - VARIABLE ARM LENGTH (MAX. WT. 75 LB., 3.3 SQ. FT.)
PEDESTRIAN SIGNALS - TWO 1 SEC., 12 INCH MOUNTED 8 FT. FROM BASE OF POLE. POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE OF POLE.

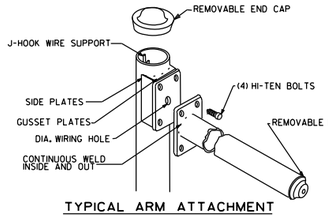
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST ALUMINUM.

5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL. POLES GREATER THAN 21FT. IN HEIGHT (FOR ROADWAY LUMINAIRE ATTACHMENT) SHALL INCLUDED A HAND HOLE WITHIN 12 INCHES OF MAST ARM(S) ATTACHMENT(S).

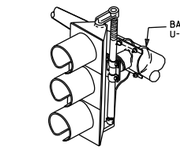
6. POLE/MAST ARM TAPER SLOPE - AVERAGE TAPER OF SIGNAL MAST ARMS AND POLE SHAFT SHALL BE 0.125 TO 0.15 INCHES PER FOOT.

MAST ARM CENTERLINE ANGLE AT ATTACHMENT POINT WITH POLE SHALL MAINTAIN NOT LESS THAN 0.5 DEGREES OR MORE THAN 4 DEGREES POSITIVE SLOPE WITH A LINE PERPENDICULAR TO THE POLE CENTERLINE. THE MAST ARM SHALL MAINTAIN A POSITIVE SLOPE AFTER IT IS PLACED UNDER LOAD.

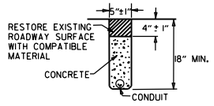
7. NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT COVER FOR EACH ANCHOR BOLT.



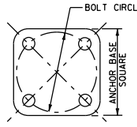
TYPICAL ARM ATTACHMENT



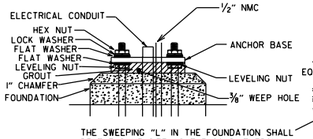
NOTE: THE SIGNAL SHALL BE CONNECTED TO THE MAST ARM BY BRACKETING AS DIRECTED BY THE ENGINEER.

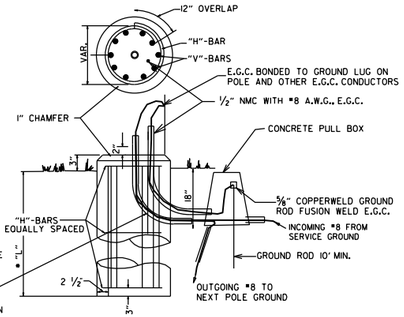


TRENCHING DETAIL
(FOR SAW CUT TRENCH IN ROADWAY)



ANCHOR BASE





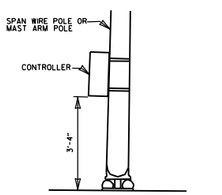
THE SWEEPING "L" IN THE FOUNDATION SHALL BE THE SAME SIZE AS THE CONDUIT FROM THE FOUNDATION TO THE PULL BOX AS SHOWN ON THE PLANS.

THE GROUND ROD SHALL BE FUSION WELDED TO A 1C/#8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP. THE GROUND ROD IS TO BE LOCATED IN THE CONCRETE PULL BOX.

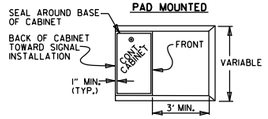
TYPICAL FOUNDATION DETAILS

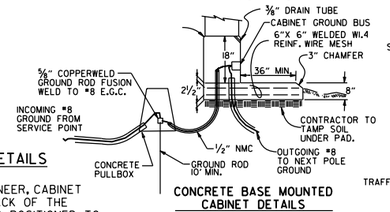
POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING. ALL REINFORCING STEEL SHALL BE GRADE 40 MIN.

ARM LENGTH	FOUNDATION DIAMETER	DEPTH "L"*	STEEL		
			VERTICAL	HORIZONTAL	O.C.
PED	30"	7'-0"	12-#7 (6'-6")	10-#4	8.44"
2' TO 12'	30"	10'-6"	12-#7 (10'-0")	15-#4	8.42"
OVER 12' TO 20'	30"	11'-6"	12-#7 (11'-0")	16-#4	8.66"
OVER 20' TO 35'	36"	12'-6"	13-#8 (12'-0")	17-#4	8.88"
OVER 35' TO 50'	36"	13'-6"	13-#8 (13'-0")	19-#4	8.56"
OVER 50' TO 72'	42"	14'-6"	18-#8 (14'-0")	20-#4	8.74"
TWINS TO 20'	30"	16'-0"	12-#6 (15'-6")	22-#4	8.76"
TWINS OVER 20' TO 44'	36"	16'-0"	13-#8 (15'-6")	22-#4	8.76"
TWINS OVER 44' TO 50'	42"	16'-0"	18-#8 (15'-6")	22-#4	8.76"
TWINS OVER 50' TO 72'	42"	16'-6"	18-#8 (16'-0")	23-#4	8.64"



SPAN WIRE SUPPORT POLE AND MAST ARM POLE MOUNTED





CONCRETE BASE MOUNTED CABINET DETAILS

CONTROLLER CABINET MOUNTING DETAILS

NOTE:
UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CABINET ORIENTATION SHALL BE SUCH THAT THE BACK OF THE CABINET IS PARALLEL TO THE STREET AND POSITIONED TO ALLOW VISIBILITY OF THE SIGNAL DISPLAY WHILE OBSERVING THE CONTROLLER FRONT PANEL.

8. GROUND ROD - A 10' X ⅝" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER. PAYMENT FOR THE GROUND ROD AND ½" NMC SHALL BE INCLUDED IN ITEM 714 FOR SIGNAL POLES AND ITEM 701FOR THE CONTROLLER. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID SEPERATELY.

9. POLE BASE/FOUNDATION - ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX NUT. PERIMETER OF ANCHOR BASE SHALL BE GROUTED WITH A ¼" WEEP HOLE. ALL CONCRETE SHALL BE CLASS "S" OR GREATER.

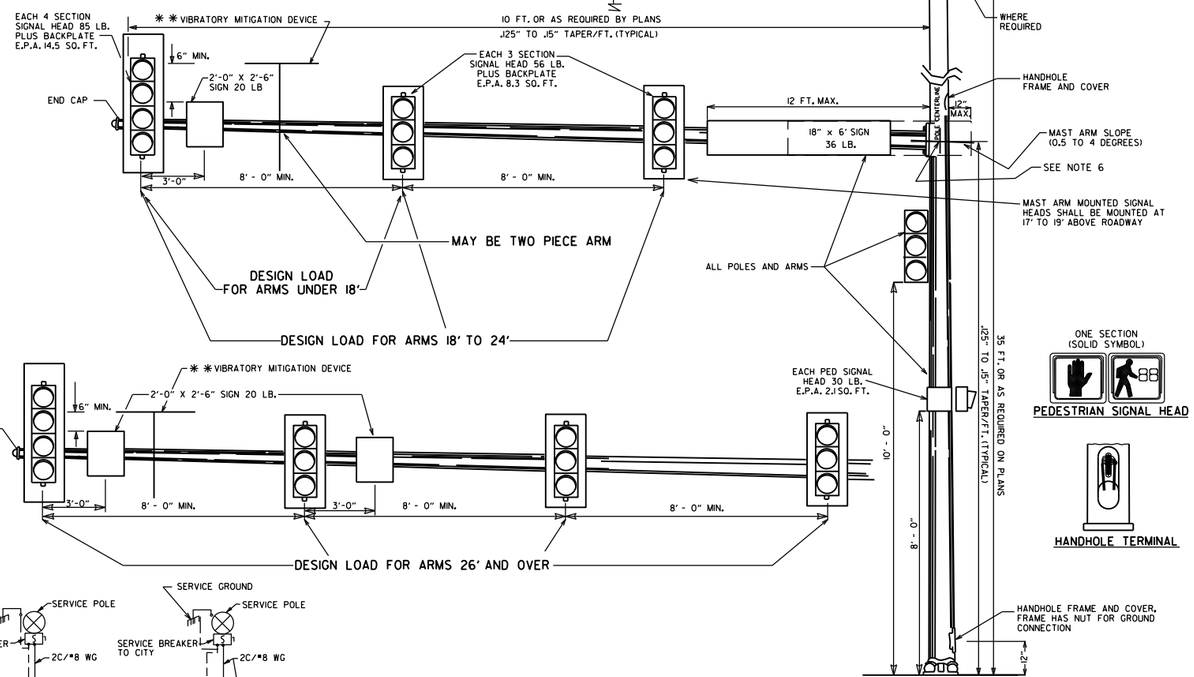
10. CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS SHALL BE CLASS "S" OR GREATER.

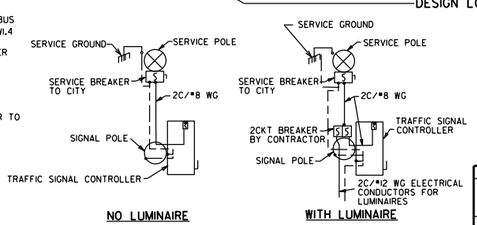
11. PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S). FURNISHING AND INSTALLING PEDESTRIAN PUSH SWITCH SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM 707 PEDESTRIAN SIGNAL HEAD.

* WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE ROADWAY ELEVATION, THE LENGTH OF FOUNDATION ABOVE THE GROUND MAY BE INCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE ROADWAY. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DEPTH "L" WILL BE REQUIRED. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 5'-6" OR LESS, INCREASE DEPTH "L" BY 1'-0". FOR LENGTHS GREATER THAN 5'-6", DEPTH "L" SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER. LONGITUDINAL REINFORCING, AS SHOWN IN THE TABLE, SHALL BE PROVIDED FOR THE LENGTH OF THE EXTENDED SHAFT AND #4 TIES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 9" ON CENTERS. PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS.

** IN LIEU OF DESIGNING THE STRUCTURE TO RESIST PERIODIC GALLOPING, A VIBRATORY MITIGATION DEVICE MAY BE PROVIDED BY THE POLE MANIFACTURER. THE VIBRATORY MITIGATION DEVICE SHALL BE AN ANTI-GALLOPING PANEL CONSISTING OF A 60" X 16" X 0.125" SIGN BLANK MOUNTED NEAR THE END OF THE MAST ARM NOT TO EXCEED ONE QUARTER OF THE LENGTH OF THE MAST ARM FROM THE END OF THE MAST ARM WITH THE LONG AXIS OF THE PANEL COLLINEAR WITH THE LONG AXIS OF THE MAST ARM. THE PANEL SHOULD BE MOUNTED AT SUCH THE HEIGHT AS TO PROVIDE AT LEAST 6" CLEAR FROM THE TOP OF ANY SIGNAL ASSEMBLY OF SIGN PANEL LOCATED ON THE MAST ARM WITHIN THE LENGTH OF THE ANTI-GALLOPING PANEL.

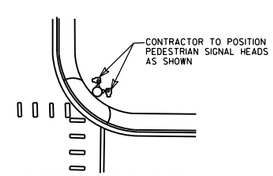
TRUCK-INDUCED GUST LOADS SHALL BE EXCLUDED FOR FATIGUE DESIGN FOR ALL STRUCTURES EXCEPT MAST ARMS MOUNTED OVER FACILITIES WITH POSTED SPEEDS OF 65 MPH OR GREATER AT THE LOCATION OF THE STRUCTURE.





SERVICE DISCONNECT

NOTE: ELECTRICAL GROUND CONDUCTOR IS BONDED TO ALL METAL ENCLOSURES



PEDESTRIAN SIGNAL HEADS

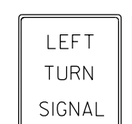
SIGNAL OPERATION NOTES:

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER. SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY, EXCEPT FRIDAY.

THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD. AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATIONS IN FLASH SEQUENCE.

SPECIAL NOTE: 90 MPH WIND ZONE DESIGN, SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.

DATE	REVISION	FILMED
02-13-24	REVISED SPECIAL SIGN TO RIO-12a SIGN	
11-16-17	REVISED NOTES, ADDED PEDESTRIAN SIGNAL HEAD DETAIL, ADDED HANDHOLE TERMINAL DETAIL, ADDED TRENCHING DETAIL	
02-27-14	REVISED NOTES.	
09-12-13	ISSUED AS STANDARD DRAWING	
12-08-16	REVISED NOTES	
02-27-14	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
07-21-11	REVISED VMD, SIGNAL HEADS	
05-21-09	REVISED GROUNDING	
07-31-08	REVISED GROUNDING	
04-25-08	ADDED VIBRATORY MITIGATION DEVICE & NOTES	
04-18-08	REVISED AASHTO NOTES	
04-17-08	REVISED TO 2001 AASHTO STANDARDS	
10-12-04	REVISED CABINET ORIENTATION	
06-23-04	REVISED	
05-11-04	REV. NOTE 3/AASHTO REQUIREMENTS	
06-11-01	REV. NOTES & POLE MAST ARM SLOPE	
04-11-01	REVISED POLE TAPERS	
04-25-00	REV. NOTES & SIGNAL HEAD PLACEMENT	
11-22-99	REVISED FOUNDATION DETAILS	
11-17-98	REVISED DETAILS AND NOTES	
11-21-95	ISSUED	



RIO-10



RIO-12a



RIO-3e
(SEE MUTCD)

ARKANSAS STATE HIGHWAY COMMISSION

STEEL POLE WITH MAST ARM

STANDARD DRAWING SD-11

SUPERELEVATION TABLE FOR TWO - WAY TRAFFIC

DEGREE OF CURVE	30 MPH			35 MPH			40 MPH			45 MPH			50 MPH			55 MPH			60 MPH			65 MPH			70 MPH			75 MPH		
	e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)	
		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE
0° 15'	NC			NC			NC			NC			NC			NC			NC			NC			NC			NC		
0° 30'	NC			NC			NC			NC			NC			NC			RC	96		RC	96		RC	96		0.022	101	
0° 45'	NC			NC			NC			NC			RC	96		RC	96		0.024	106		0.026	110		0.030	120		0.032	125	
1° 00'	NC			NC			NC			RC	90		0.022	101		0.026	110		0.030	120		0.034	130		0.038	139	300	0.042	149	300
1° 15'	NC			NC			RC	84		0.022	95		0.028	115		0.032	125		0.038	139		0.042	149		0.046	158		0.052	173	
1° 30'	NC			RC	78		0.022	88		0.028	108		0.032	125		0.038	139		0.044	154		0.050	168	300	0.056	182		0.062	197	
1° 45'	RC	72		RC	78		0.026	97		0.030	113		0.036	134		0.044	154		0.050	168	300	0.056	182		0.064	202		0.070	216	
2° 00'	RC	72		0.024	86		0.028	101		0.034	122		0.042	149		0.048	163		0.056	182		0.064	202		0.070	216		0.080	240	
2° 15'	RC	72		0.026	90		0.032	109		0.038	131		0.046	158		0.054	178	300	0.062	197		0.070	216		0.078	235	350	0.088	259	350
2° 30'	0.022	75		0.028	94		0.034	113		0.042	140		0.050	168		0.058	187		0.068	211		0.076	230		0.086	254		0.096	278	
2° 45'	0.024	79		0.030	98		0.038	122		0.046	149	200	0.054	178		0.064	202		0.072	221		0.082	245		0.092	269		0.100	288	400
3° 00'	0.026	83		0.034	105		0.040	126		0.050	158		0.058	187	250	0.068	211		0.078	235		0.088	259		0.098	283	400	D MAX = 2° 45'		
3° 15'	0.028	86		0.036	109		0.044	134		0.052	162		0.062	197		0.072	221		0.082	245		0.092	269		0.100	288				
3° 30'	0.030	90		0.038	113		0.046	139	200	0.056	171		0.066	206		0.076	230		0.086	254		0.096	278	350	D MAX = 3° 30'					
3° 45'	0.032	93		0.040	117		0.050	147		0.058	176		0.070	216		0.080	240		0.090	264		0.098	283							
4° 00'	0.034	97		0.042	121	200	0.052	151		0.062	185		0.072	221		0.084	250		0.094	274	350	0.100	288							
4° 15'	0.036	100		0.044	125		0.054	155		0.064	189		0.076	230		0.086	254	350	0.096	278		D MAX = 4° 15'								
4° 30'	0.036	100		0.046	129		0.056	160		0.068	198		0.078	235		0.090	264		0.098	283										
4° 45'	0.038	104	200	0.048	133		0.060	168		0.070	203		0.082	245		0.092	269		0.100	288										
5° 00'	0.040	108		0.050	137		0.062	172		0.072	207		0.084	250		0.094	274		D MAX = 5° 15'										
5° 30'	0.044	115		0.054	144		0.066	181		0.078	221	250	0.088	259		0.098	283												
6° 00'	0.046	119		0.058	152		0.070	189		0.082	230		0.092	269		0.100	288												
6° 30'	0.050	126		0.062	160		0.074	198		0.086	239		0.096	278	300	D MAX = 6° 30'													
7° 00'	0.052	130		0.064	164		0.078	206		0.090	248		0.098	283															
7° 30'	0.054	133		0.068	172		0.080	210		0.092	252		0.100	288															
8° 00'	0.058	140		0.070	176		0.084	219		0.094	257	300	D MAX = 8° 25'																
8° 30'	0.060	144		0.072	179		0.086	223	250	0.096	261																		
9° 00'	0.062	148		0.076	187		0.088	227		0.098	266																		
9° 30'	0.064	151		0.078	191		0.092	235		0.100	270																		
10° 00'	0.066	155		0.080	195		0.094	240		D MAX = 10° 30'																			
11° 00'	0.070	162		0.084	203		0.096	244																					
12° 00'	0.074	169		0.088	211	250	0.098	248																					
13° 00'	0.076	173		0.090	215		0.100	252	300	D MAX = 13° 45'																			
14° 00'	0.080	180		0.094	222																								
15° 00'	0.082	184		0.096	226																								
16° 00'	0.086	191		0.098	230																								
17° 00'	0.088	194		0.100	234																								
18° 00'	0.090	198	250	D MAX = 19° 30'																									
19° 00'	0.092	202																											
20° 00'	0.094	205																											
21° 00'	0.096	209																											
22° 00'	0.096	209																											
23° 00'	0.098	212																											
24° 00'	0.098	212																											
25° 00'	0.100	216																											
D MAX = 28° 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.)

GENERAL NOTES

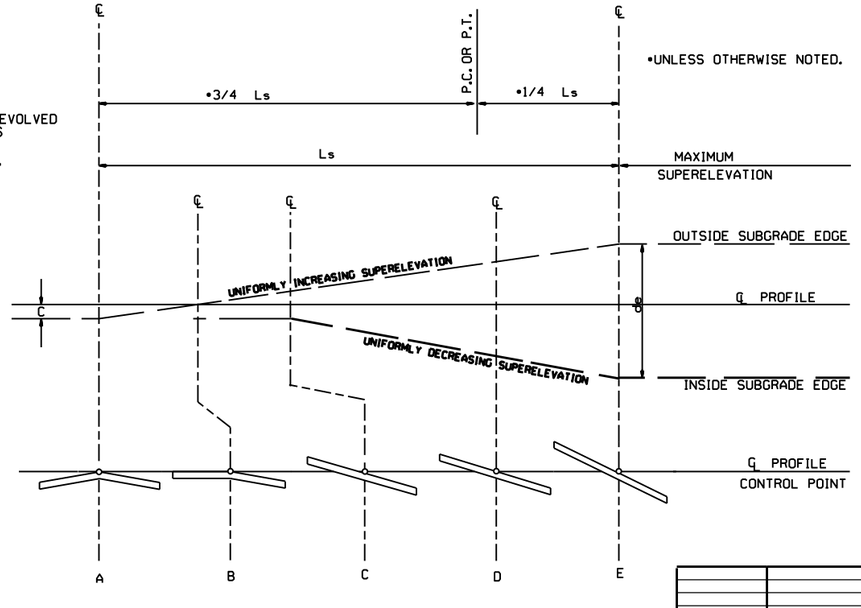
1. ON PAVEMENT WITH TWO-WAY TRAFFIC, THE SUPERELEVATION SHALL BE REVOLVED ON THE INSIDE PAVEMENT EDGE UNLESS OTHERWISE NOTED ON THE PLANS
2. SUPERELEVATION VALUES SHOWN ON THE CROSS SECTIONS ARE VALUES (+) OR (-) TO BE ADDED TO OR SUBTRACTED FROM THE POINT OF CONTROL.
3. LENGTHS FOR L MAY BE ROUNDED 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%

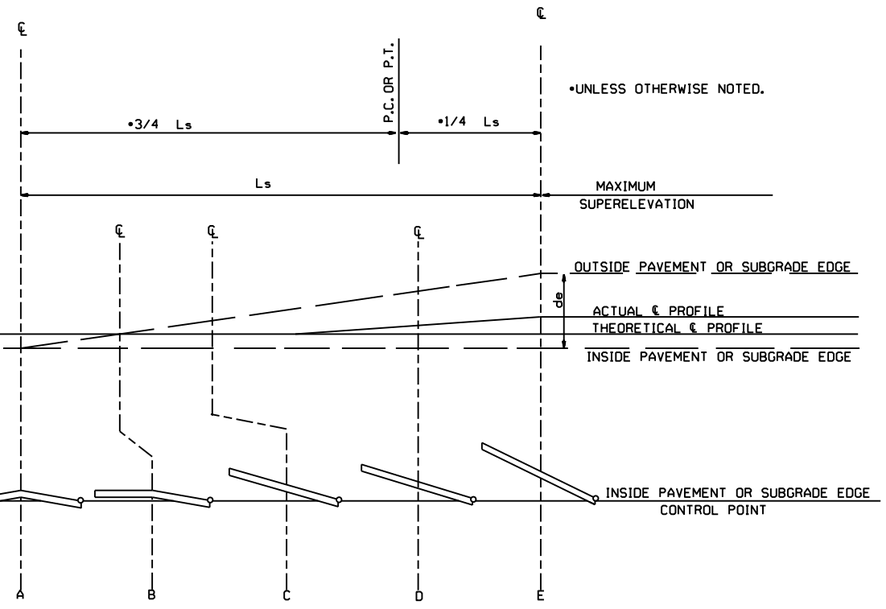
NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.

RATE OF SUPERELEVATION SHALL BE COMPUTED ON STRAIGHT LINE METHOD USING APPLICABLE Ls.

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



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND CENTER LINE



STANDARD METHOD WHEN SUPERELEVATION REVOLVES AROUND INNER SUBGRADE POINT OR INNER PAVEMENT EDGE

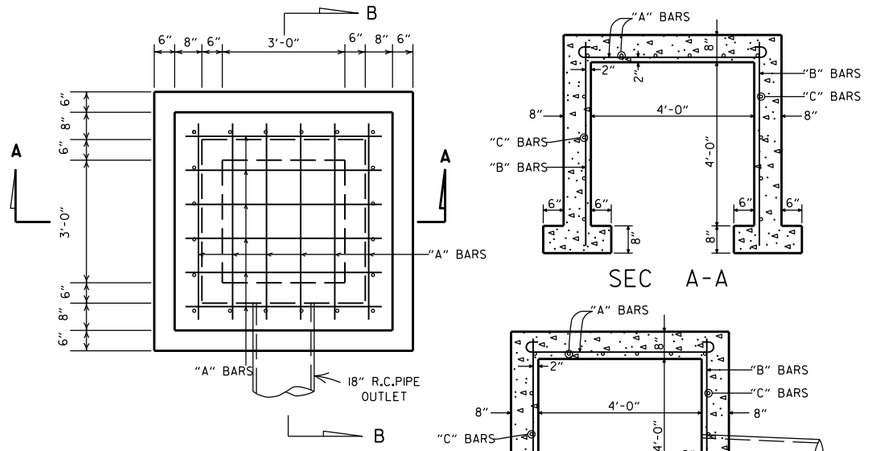
NOTE: MAINTAIN NORMAL CROWN ON INSIDE UNTIL SUPERELEVATION EXCEEDS 2C.

DATE	REVISION	DATE FILLMED
11-07-19	REVISED SUPERELEVATION TABLE	
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

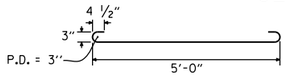
SEC B-B

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

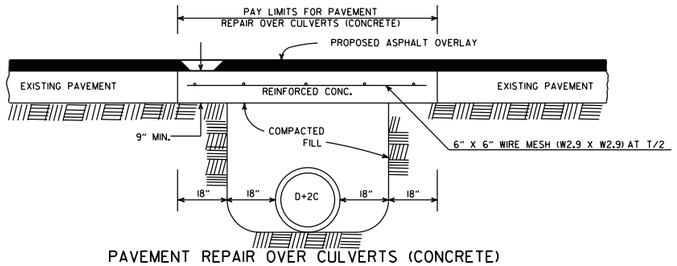
QUANTITIES

CONCRETE 3.31 CU. YDS.
REINFORCING STEEL 168 LB.

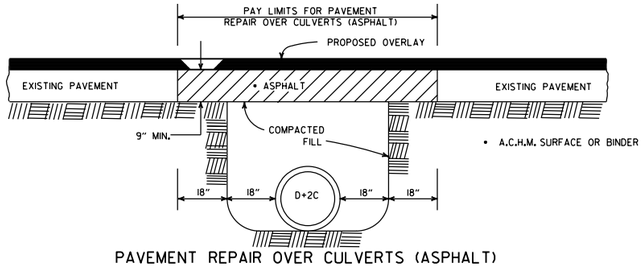
GENERAL NOTE:

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



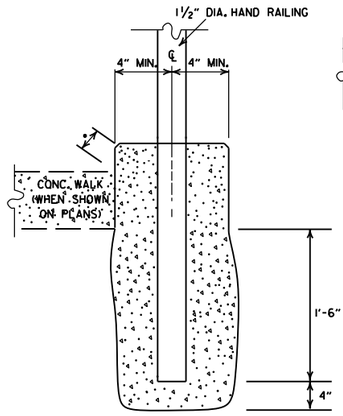
PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



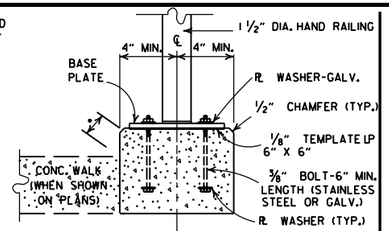
PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

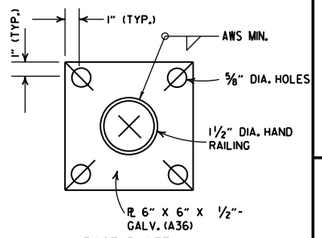
• A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

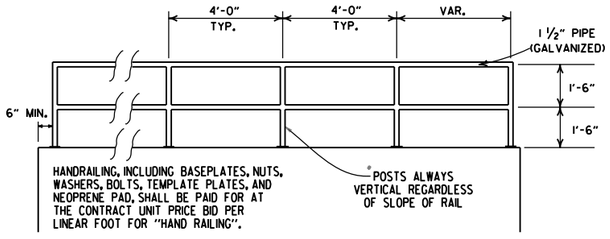


POST CONNECTION TO WALL

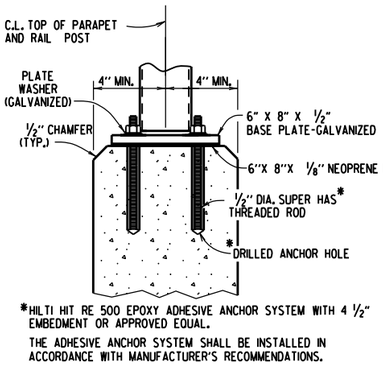


BASE PLATE

POST CONNECTION DETAILS



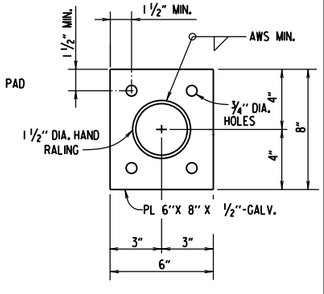
HAND RAILING SHALL CONFORM TO SECTION 633.



*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.

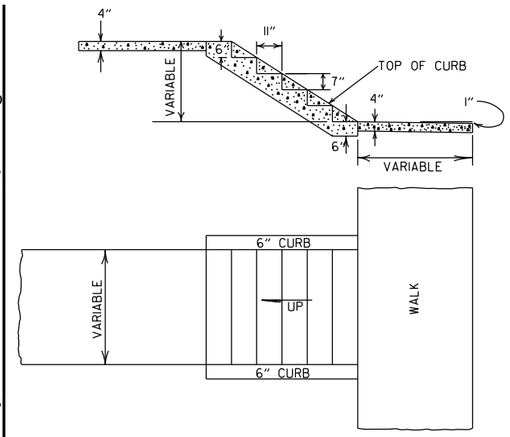
POST CONNECTION TO WALL



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.

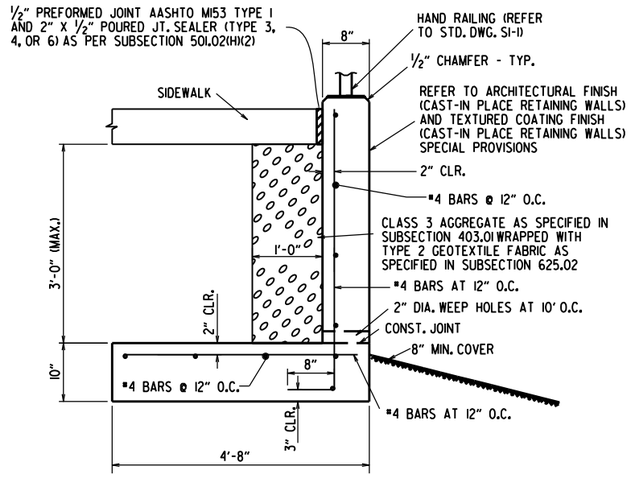
DETAILS OF CONCRETE STEPS & WALKS

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	
4-26-94	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

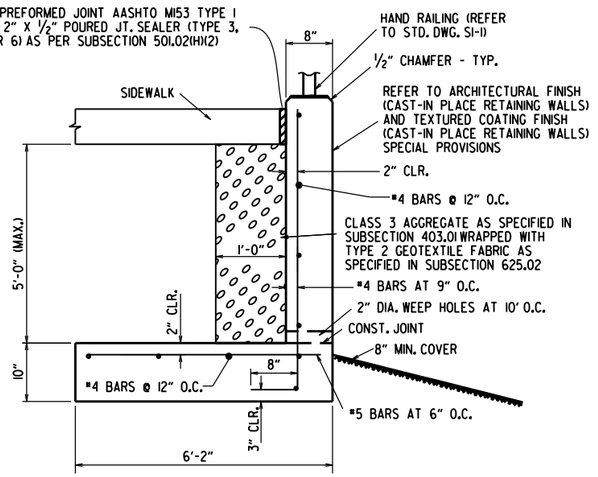
DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI - 1



CONCRETE WALK (TYPE SPECIAL) DETAIL MAX HEIGHT 3'-0"

N.T.S.



CONCRETE WALK (TYPE SPECIAL) DETAIL MAX HEIGHT 5'-0"

N.T.S.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION (2012).

LIVE LOAD: LIVE LOAD SURCHARGE IS NOT INCLUDED IN THE DESIGN OF THESE WALLS. VEHICULAR LIVE LOAD SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO ONE-HALF THE HEIGHT OF THE WALL.

CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED ½". ALL CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH F'C = 3,500 PSI. A CLASS 2 SURFACE FINISH SHALL BE USED ON ALL SURFACES OF THE CONCRETE UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS) AND TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS) SPECIAL PROVISIONS.

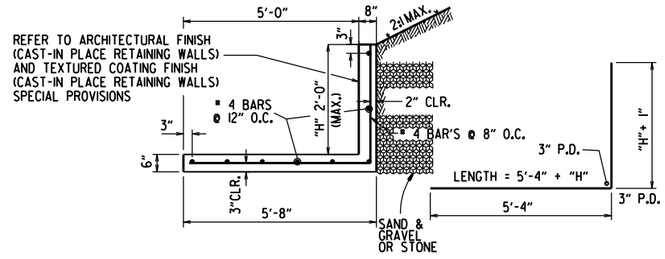
REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60.

FOUNDATIONS FOR FOOTINGS SHALL BE PREPARED IN ACCORDANCE WITH SUBSECTION 801.04. BACKFILL FOR RETAINING WALLS SHALL BE IN ACCORDANCE WITH SUBSECTION 801.08.

WATERPROOF MEMBRANE (TYPE C), WATERSTOPS, PREFORMED JOINTS, PREFORMED JOINT FILLER, WEEP HOLES, CLASS 3 AGGREGATE, REINF. STEEL, CONCRETE, & GEOTEXTILE FABRIC SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO CONCRETE WALKS (TYPE SPECIAL).

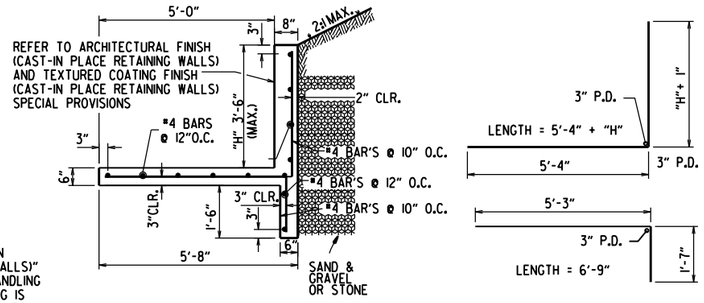
JOINTS IN THE WALL SHALL MATCH TYPE AND SPACING OF THE JOINTS IN THE WALK.

THESE DETAILS ARE NOT INTENDED FOR USE ALONG STREAMS OR DITCHES WITHOUT CONSIDERATION FOR SCOUR.



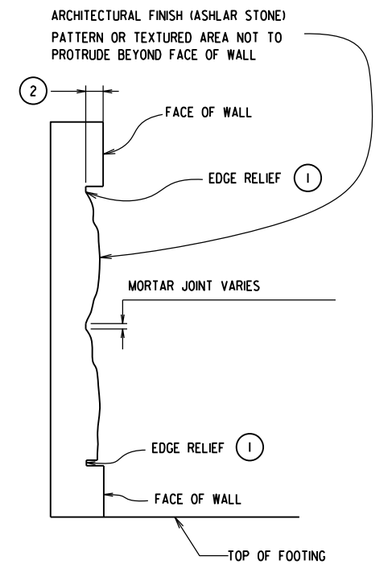
CONCRETE WALK (TYPE SPECIAL) DETAILS MAX HEIGHT 2'-0"

N.T.S.



CONCRETE WALK (TYPE SPECIAL) DETAILS MAX HEIGHT 3'-6"

N.T.S.

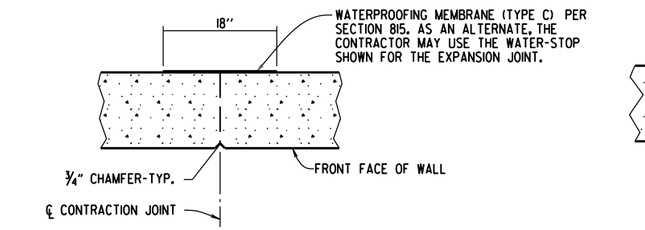


ARCHITECTURAL FINISH DETAILS

N.T.S.

(1) PROVIDE EDGE RELIEF AROUND PERIMETER OF TEXTURE. EDGE RELIEF DIMENSIONS SHALL MATCH MANUFACTURERS EDGE DISTANCE.

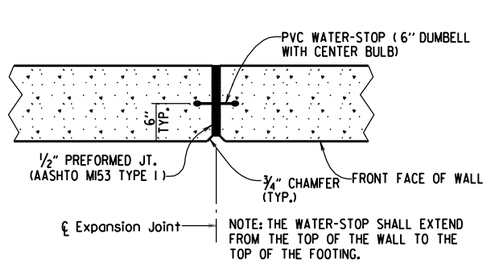
(2) DEPTH OF ASHLAR STONE PATTERN APPROX. 1⅝". SEE SP "ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)".



TYPICAL CONTRACTION JOINT DETAIL

N.T.S.

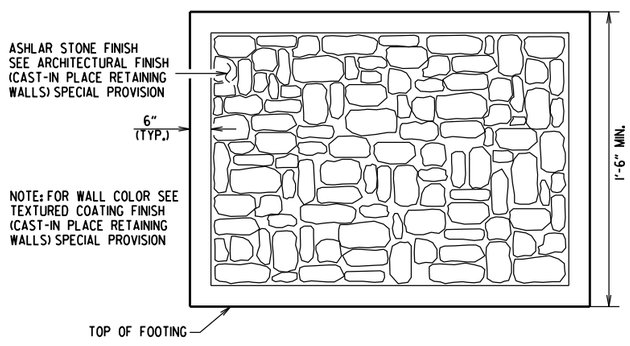
NOTE: 20'-0" MAX. SPACING BETWEEN CONTRACTION JOINTS. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTRACTION JOINTS.



TYPICAL EXPANSION JOINT DETAIL

N.T.S.

NOTE: 60'-0" MAX. SPACING BETWEEN EXPANSION JOINTS. HORIZONTAL REINFORCING SHALL STOP 2" FROM ℄ EXPANSION JOINT.



ASHLAR STONE FINISH DETAIL

NOTES:

WALL PATTERN SHALL BE APPLIED TO THE EXPOSED SURFACES OF WALL IN ACCORDANCE WITH SP "ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)" AND AS SHOWN IN THE PLANS. CARE SHALL BE TAKEN WITH FORM LINER HANDLING AND INSTALLATION TO ENSURE AESTHETIC QUALITY OF THE WALL TEXTURING IS MAINTAINED. WHERE FORM LINER PANELS REQUIRE MODIFICATION TO CONFORM TO THE LOCATION, DIMENSIONS AND LINES SHOWN IN THE PLANS, THE CONTRACTOR SHALL PROVIDE EDGE RELIEF MATCHING THAT OF THE UNALTERED FORM LINER. PAYMENT FOR WALL TEXTURING SHALL BE IN ACCORDANCE WITH SP "ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)".

NO ADJUSTMENTS WILL BE MADE IN CONCRETE VOLUME DUE TO THE USE OF "ARCHITECTURAL FINISH". CLASS "S" CONCRETE SHALL BE MEASURED IN ACCORDANCE WITH SUBSECTION 802.24(A). CARE SHALL BE TAKEN IN PLACING CONCRETE TO AVOID SEGREGATION AND TO ELIMINATE FLOW LINES.

CLASS 3 TEXTURED COATING FINISH SHALL BE APPLIED TO WALL SURFACES AS SPECIFIED IN SP "TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS)" AND IN ACCORDANCE WITH SUBSECTION 802.19(B)(3).

DATE	REVISION	DATE FILMED
11-05-20	REVISED GENERAL NOTES	
5-14-20	DRAWING ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE WALK (TYPE SPECIAL)

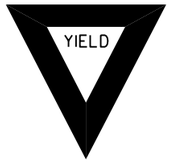
STANDARD DRAWING SI - 3

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



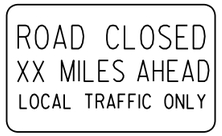
STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2



48"X30"

R11-3A



60"X30"

R11-4



60"X30"

W21-5a



STD. 36"X36"
FWY. 48"X48"

W1-1



STD. 36"X36"
FWY. 48"X48"

W1-2



STD. 36"X36"
FWY. 48"X48"

W1-3



STD. 48"X48"

W1-4



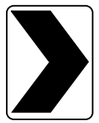
STD. 48"X48"

W1-6



STD. 48"X24"
SPECIAL 60"X30"

W1-8



STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

W3-1



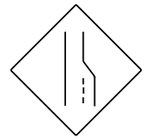
STD. 36"X36"
SPECIAL 48"X48"

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"

W13-1



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"

W1-4b



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.

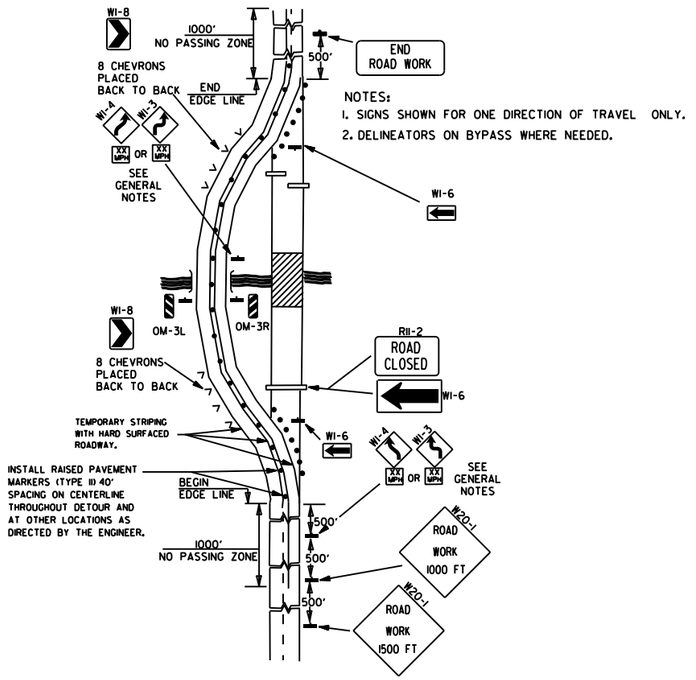
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED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

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

ARKANSAS STATE HIGHWAY COMMISSION

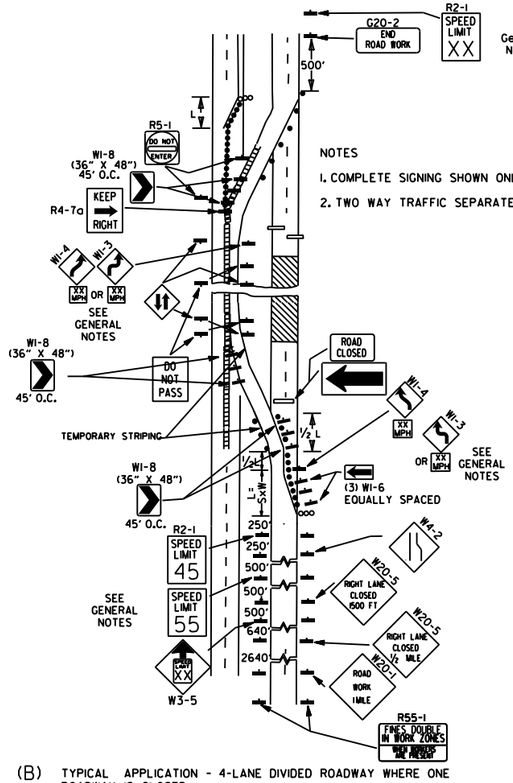
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



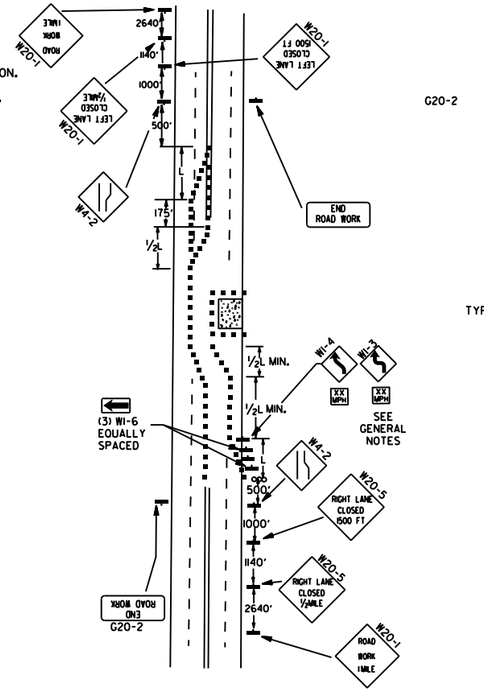
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

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

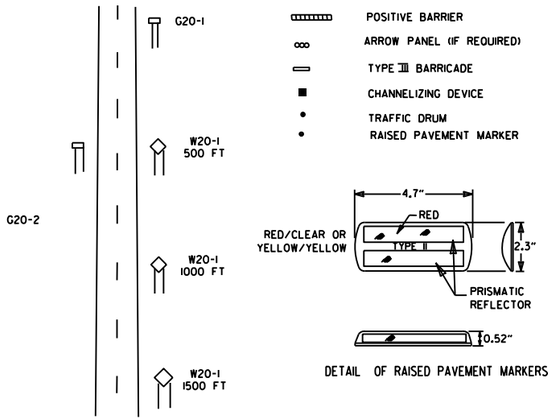


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(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:

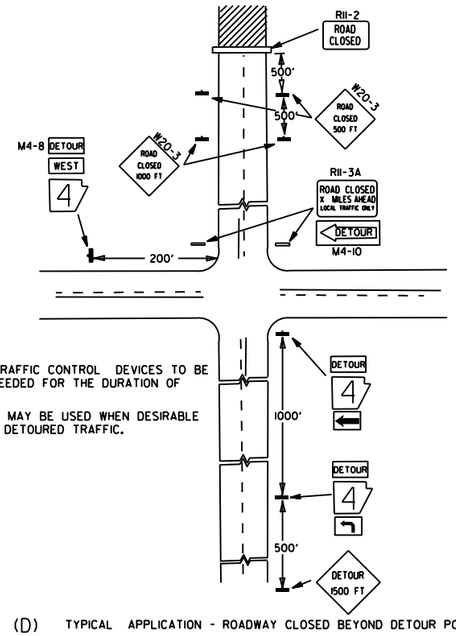
L= MINIMUM LENGTH OF TAPER.

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

W= WIDTH OF OFFSET.

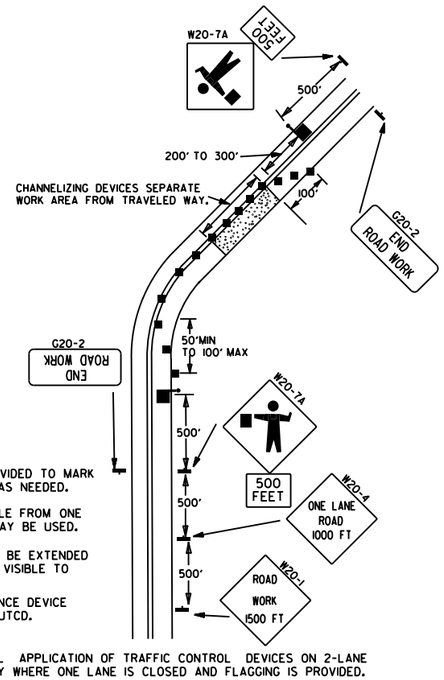
GENERAL NOTES:

1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-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 R2-145MPH 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 R2-155MPH 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. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



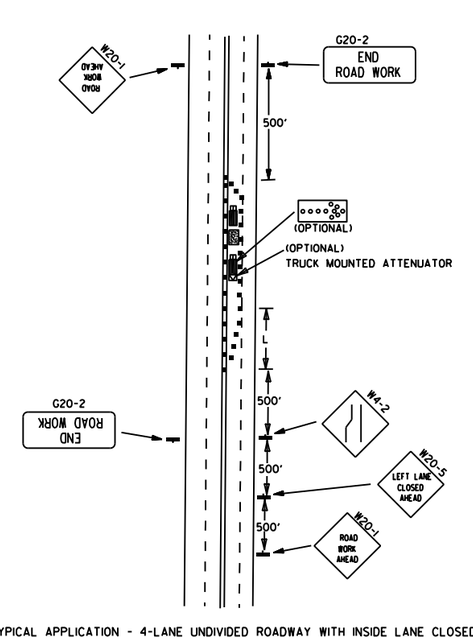
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(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.



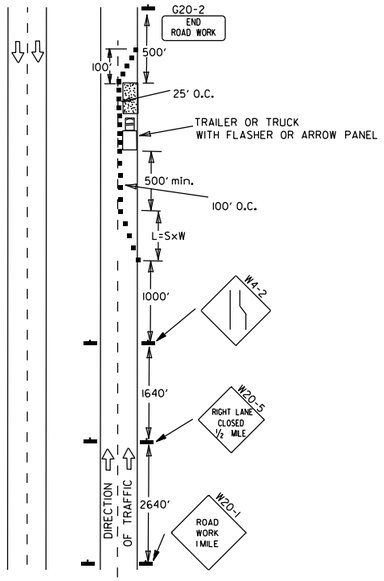
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

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

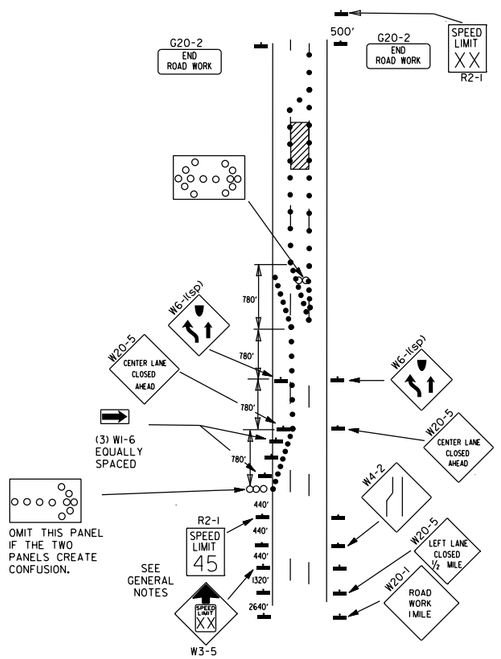
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

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.

KEY:

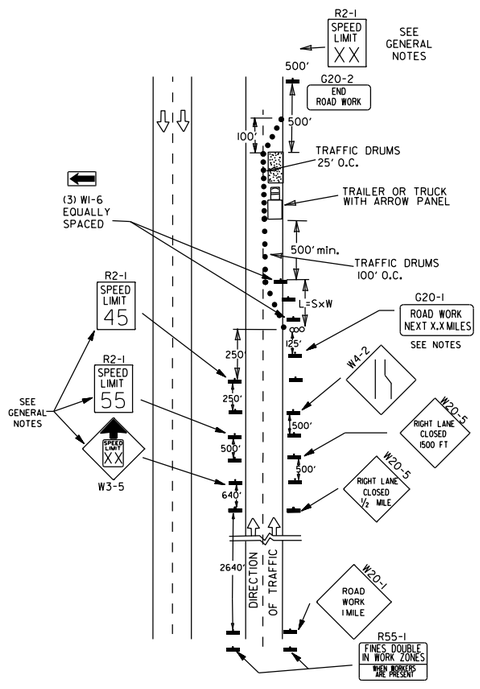
ARROW PANEL (IF REQUIRED)

■ CHANNELIZING DEVICE

● TRAFFIC DRUM

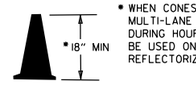
GENERAL NOTES:

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 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. 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 MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
10. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



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

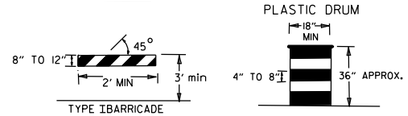
CHANNELIZING DEVICES



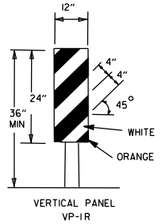
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

CONES

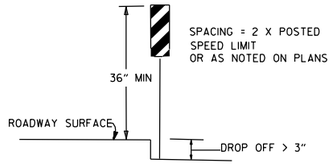
PLASTIC DRUM



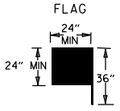
NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.



VERTICAL PANEL PLACEMENT



FLAG



FLAG SHALL BE OF GOOD GRADE RED MATERIAL

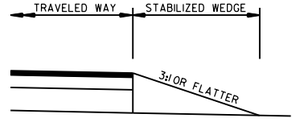
TRAFFIC CONTROL DEVICES			
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE[6]	STANDARD LANE CLOSURE[6]
≤ 3"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

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

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

GENERAL NOTES:

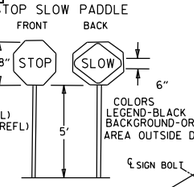
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL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

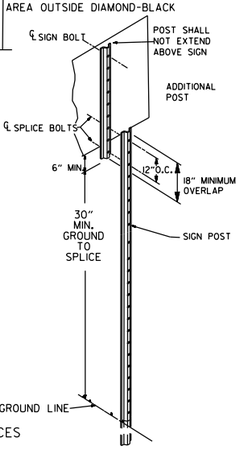


STABILIZED WEDGE

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

STOP SLOW PADDLE

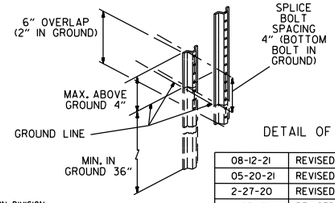




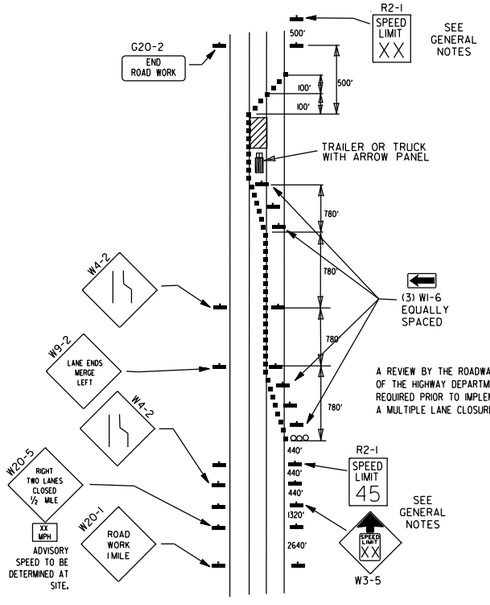
NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-21)

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

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



DETAIL OF SPLICES



A REVIEW BY THE ROADWAY DESIGN DIVISION OF THE HIGHWAY DEPARTMENT WILL BE REQUIRED PRIOR TO IMPLEMENTING A MULTIPLE LANE CLOSURE.

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

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

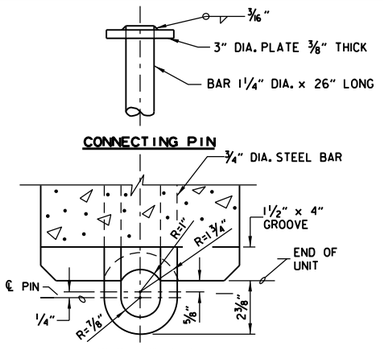
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-3

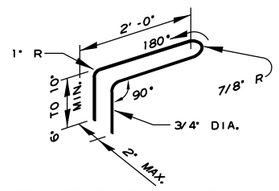
REINFORCING BAR TABLE PER BARRIER UNIT

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'-5", 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'-6", 1" MIN. CLEAR TO BAR; 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°; 1 1/2"; 9"; 2'-1 3/8"; 4 3/8"

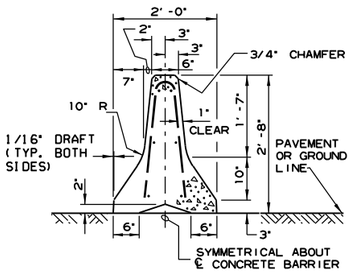


SECTION E-E

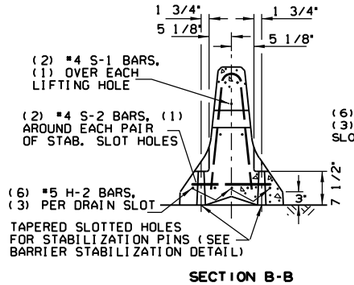
CONNECTION DETAILS



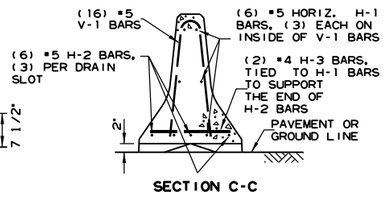
CONNECTION LOOP



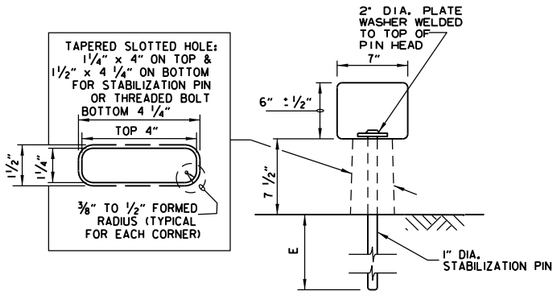
SECTION A-A



SECTION B-B



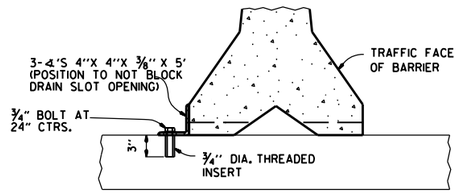
SECTION C-C



BARRIER STABILIZATION DETAIL

ROADWAY SECTION

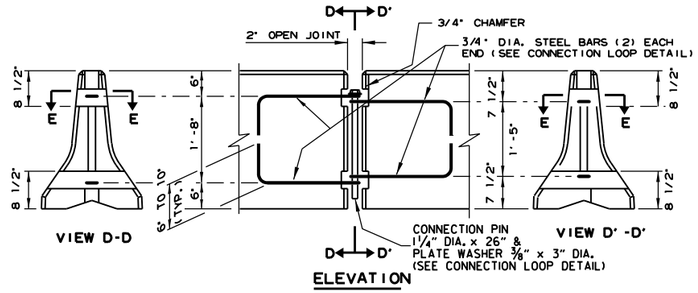
(E) 4" - CONCRETE PAVEMENT
8" - ASPHALT PAVEMENT
12" - SHOULDER AREAS



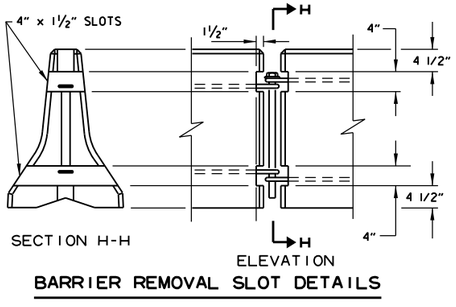
NOTE: " THREADED INSERTS SHALL BE CAST IN PLACE FOR ALL NEW BRIDGE DECKS AND DRILLED AND GROUTED FOR EXISTING BRIDGE DECKS. INSERTS SHALL HAVE A MINIMUM ULTIMATE LOAD CAPACITY OF 8000 LBS. IN TENSION. AFTER REMOVAL OF BARRIER, BOLTS, AND ANGLES, THE INSERTS SHALL BE FILLED WITH APPROVED NON-SHRINK EPOXY.

BARRIER STABILIZATION DETAIL

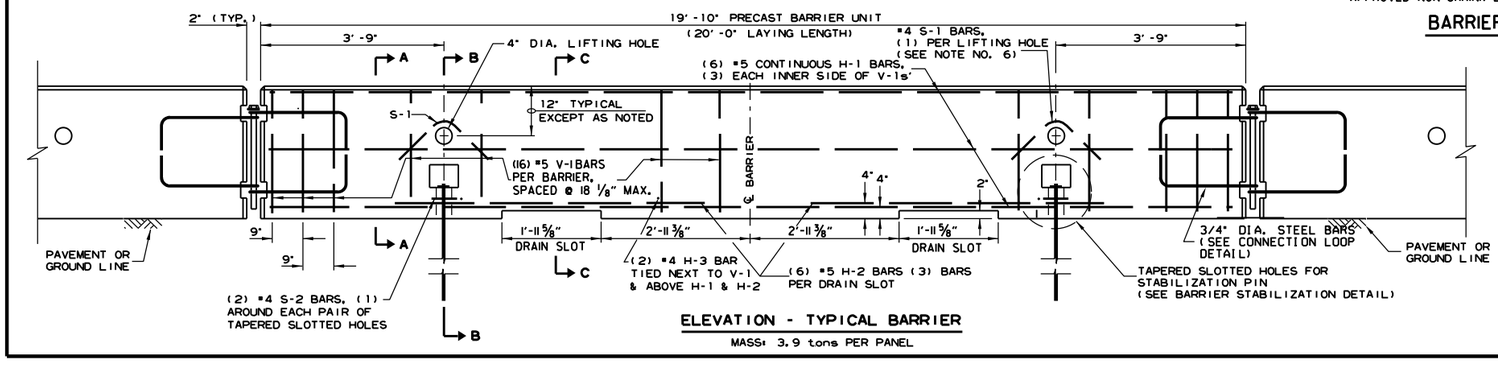
BRIDGE DECKS



ELEVATION



BARRIER REMOVAL SLOT DETAILS



ELEVATION - TYPICAL BARRIER

MASS: 3.9 tons PER PANEL

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 ARDOT 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 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 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 MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). 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.

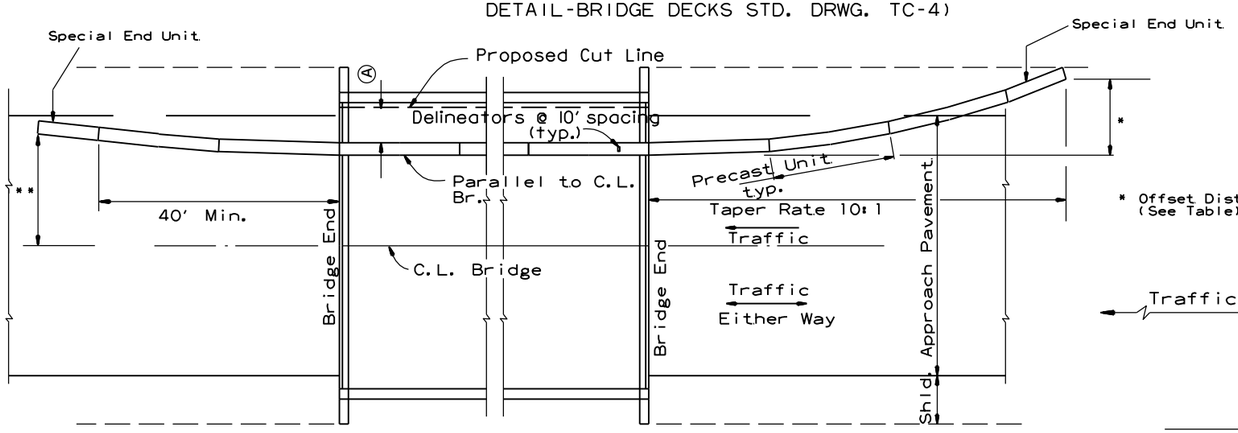
DATE	REVISION	FILMED
11-07-19	REVISED NOTE 3	
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO WASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED 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

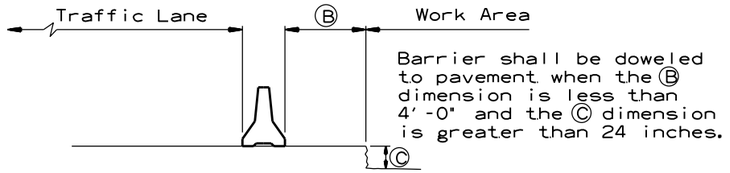
Ⓐ 4 feet or greater preferred. If less than 4 feet, Precast Units shall be connected to slab (SEE BARRIER STABILIZATION DETAIL-BRIDGE DECKS STD. DRWG. TC-4)



* Offset Distance (See Table)

BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

No Scale

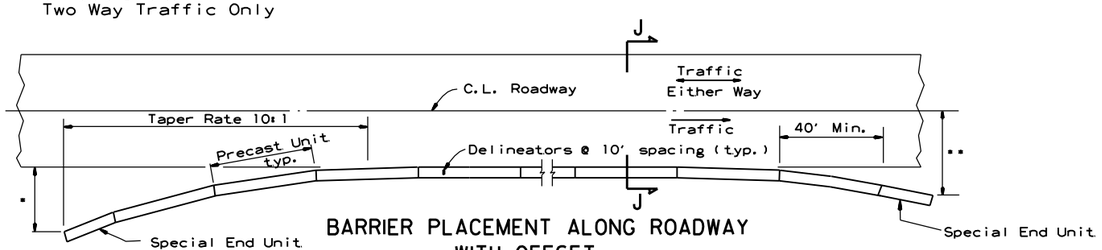


Barrier shall be doweled to pavement when the Ⓑ dimension is less than 4'-0" and the Ⓒ dimension is greater than 24 inches.

SECTION J-J

No Scale

** Offset Distance for Two Way Traffic Only



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

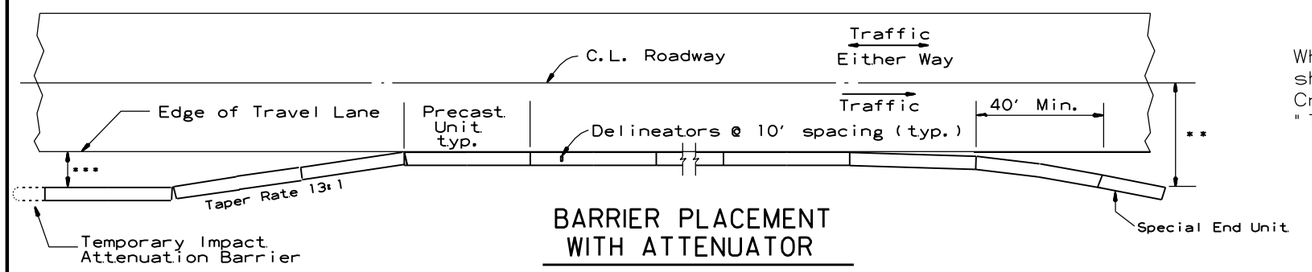
* Offset Distance (See Table)

** Offset Distance For Two Way Traffic Only

Offset Distance Table

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

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

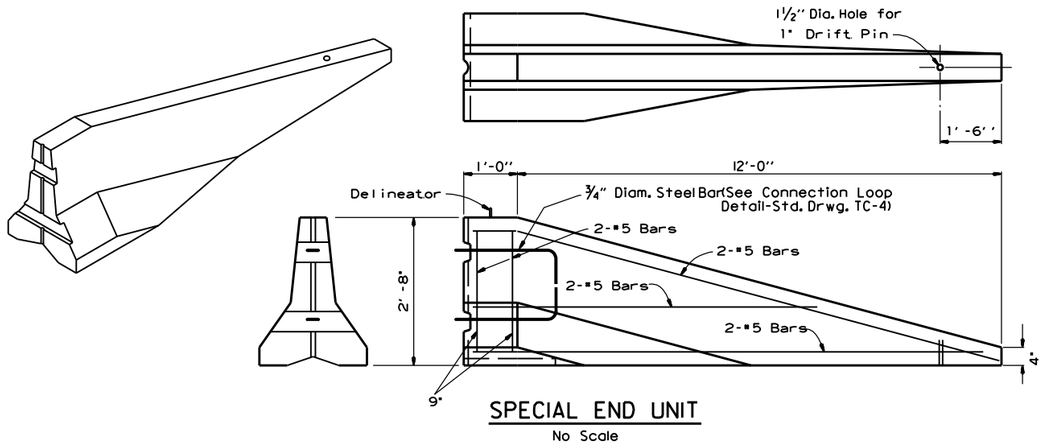


BARRIER PLACEMENT WITH ATTENUATOR

No Scale

** Offset Distance For Two Way Traffic Only

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



SPECIAL END UNIT

No Scale

General Notes

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

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

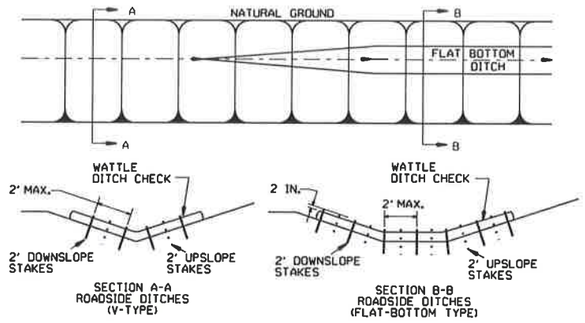
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

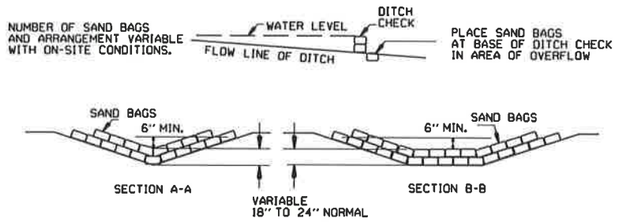
STANDARD DRAWING TC-5

GENERAL NOTES

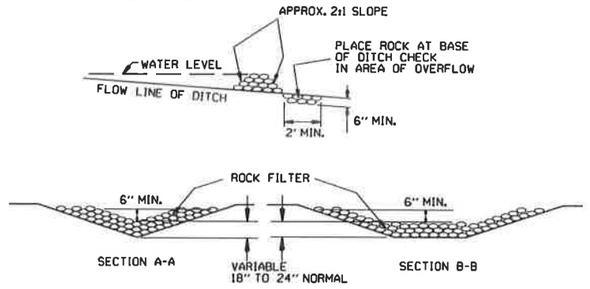
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

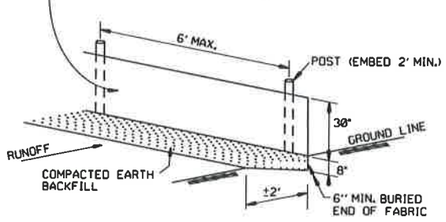


ROCK DITCH CHECK (E-6)

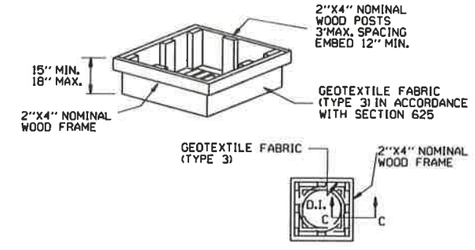
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

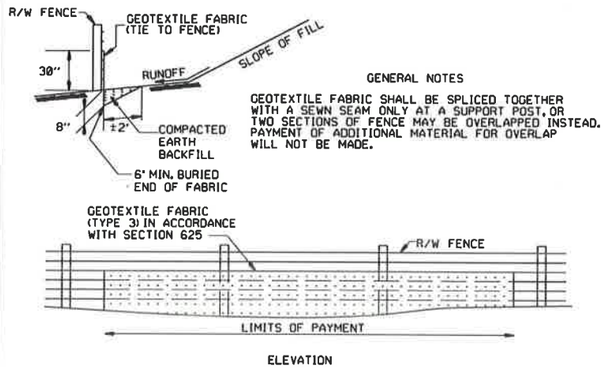
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



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.

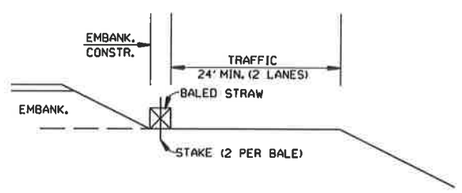
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

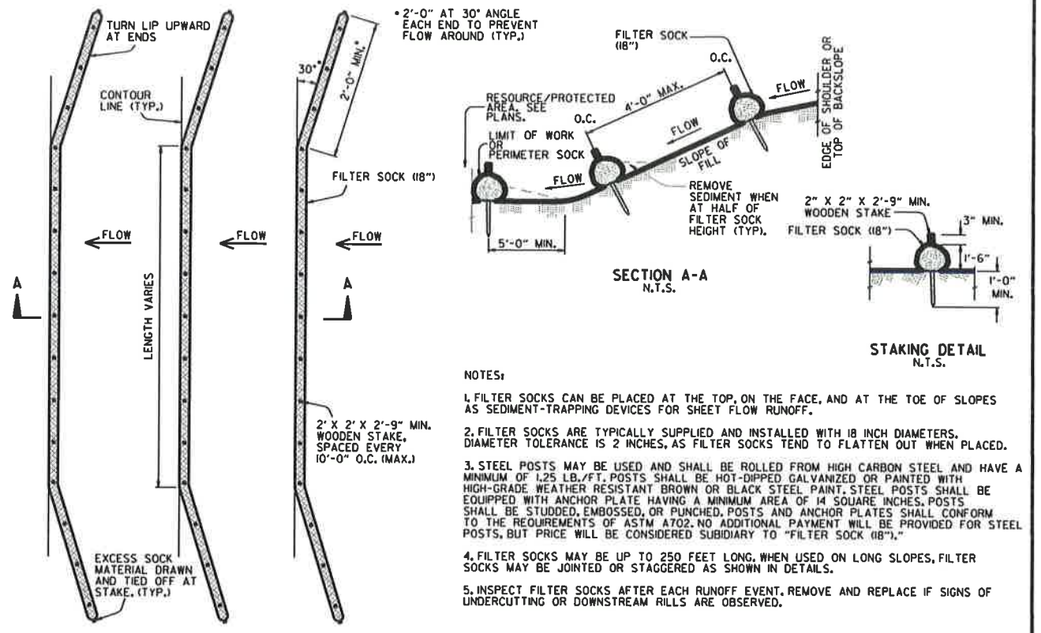
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

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.

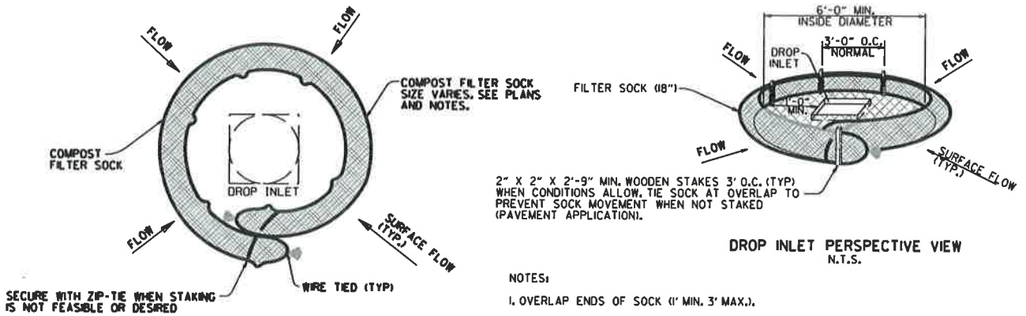
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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 SUBIDIARY 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.

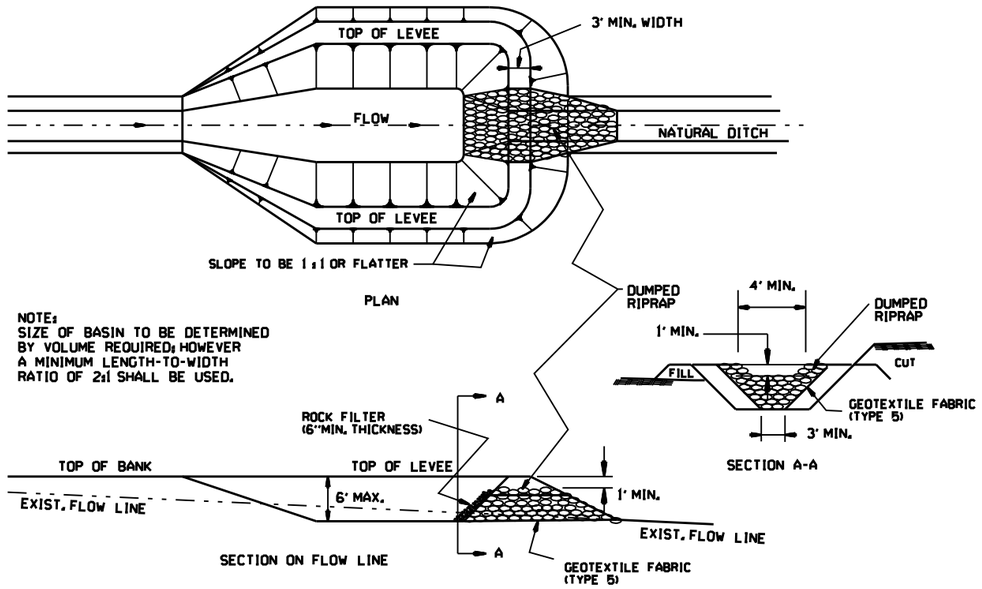
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

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

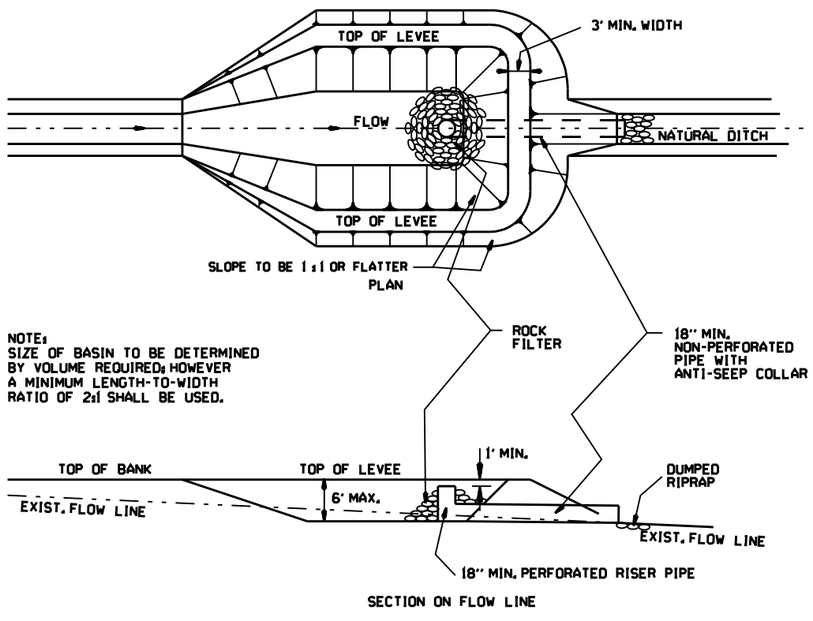
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

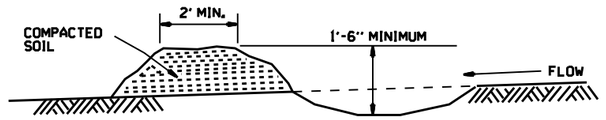
STANDARD DRAWING TEC-1



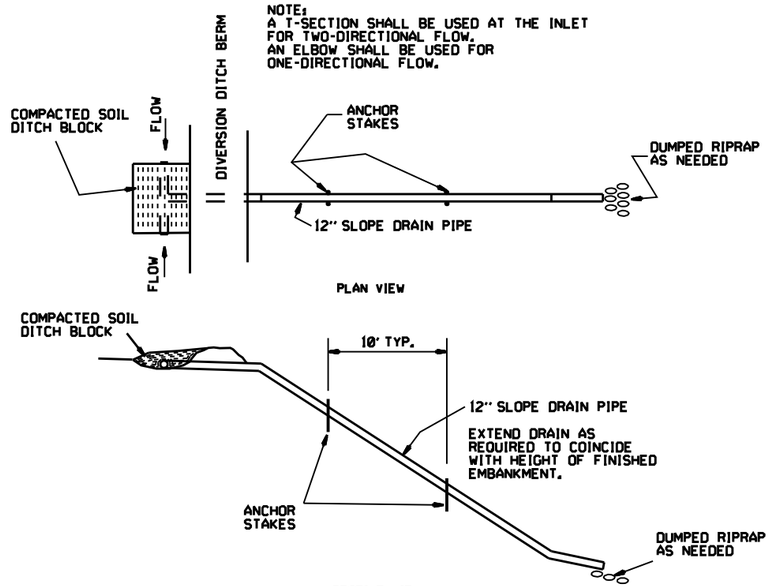
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



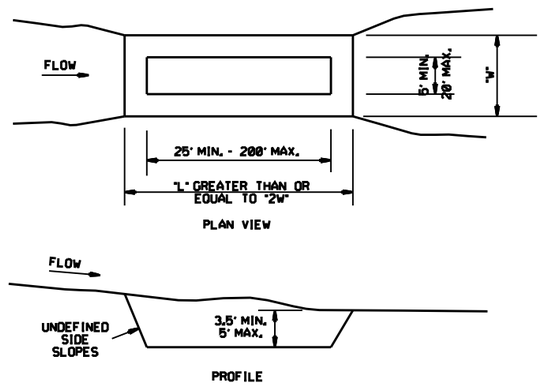
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



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

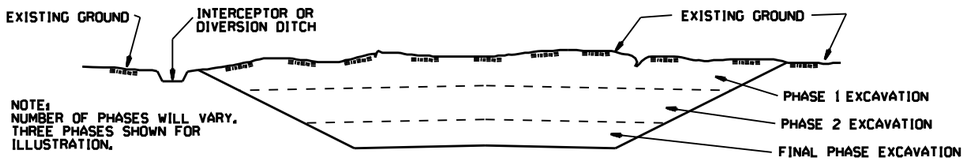
STANDARD DRAWING TEC-2

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



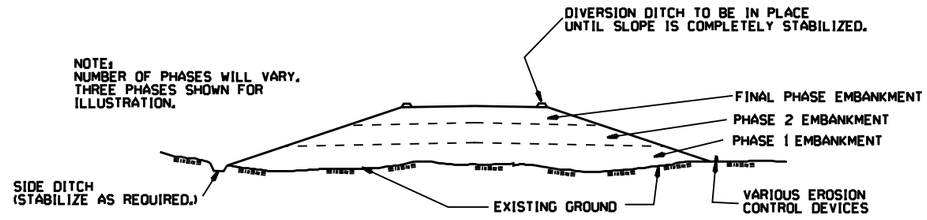
GENERAL NOTE

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

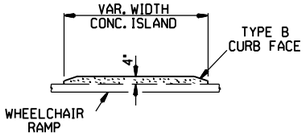
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD 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

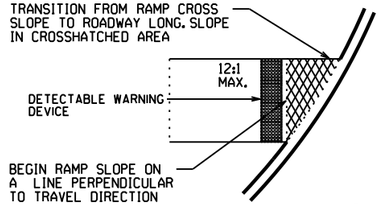
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

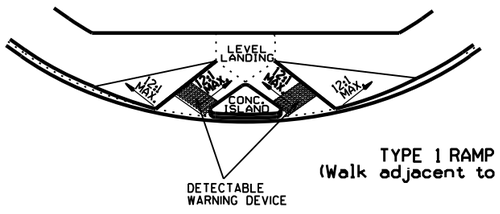
STANDARD DRAWING TEC-3



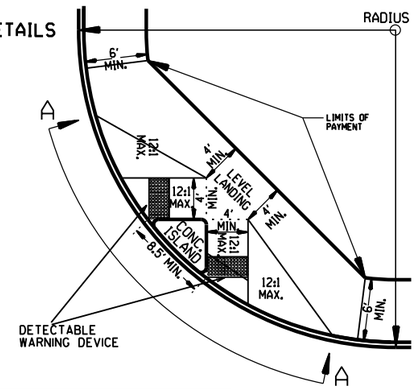
CONCRETE ISLAND DETAIL

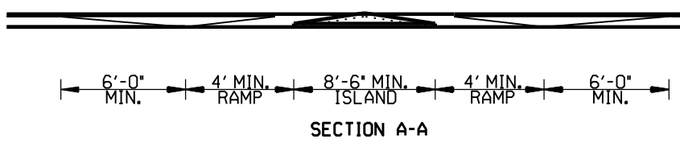


SLOPE TRANSITION DETAILS



TYPE 1 RAMP
(Walk adjacent to curb)

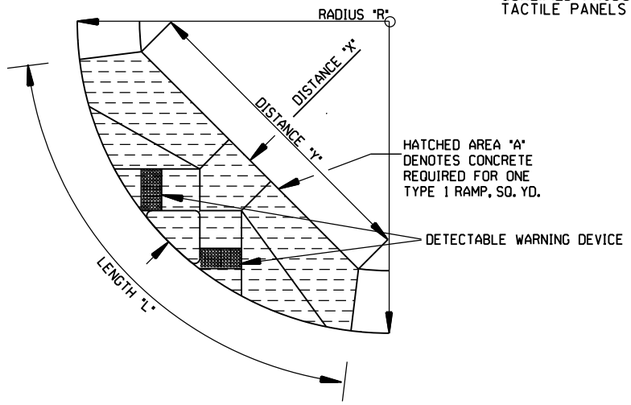




SECTION A-A

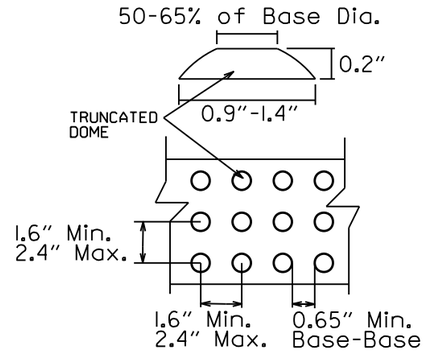
TYPE 1 RAMP DIMENSIONS AND QUANTITIES

RADIUS "R" FEET	DISTANCE "X" FEET	DISTANCE "Y" FEET	LENGTH "L" FEET	RAMP AREA "A" SQ. YD.
15	11.67	18.82	32.18	26.21
20	11.52	22.28	35.46	30.07
25	11.43	26.60	38.77	33.80
30	11.37	30.26	40.93	36.90
35	11.33	33.51	43.11	39.77
40	11.30	36.45	45.26	42.45
45	11.27	39.16	47.34	44.97
50	11.25	41.69	49.36	47.35
55	11.24	44.07	51.31	49.63
60	11.22	46.33	53.21	51.80



GENERAL NOTES FOR DETECTABLE WARNING DEVICES

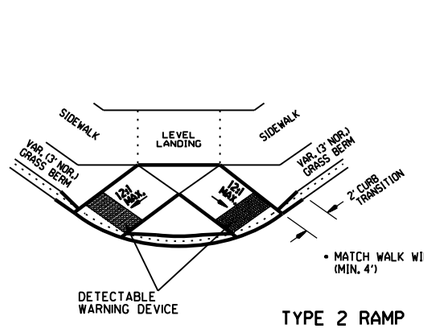
THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF THE CURB.
TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.
DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
DETECTABLE WARNING DEVICE SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).



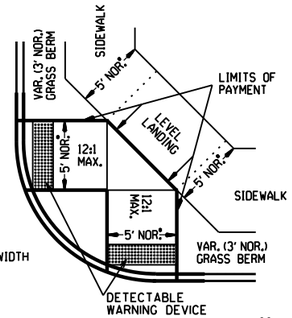
DETECTABLE WARNING DEVICE DETAIL

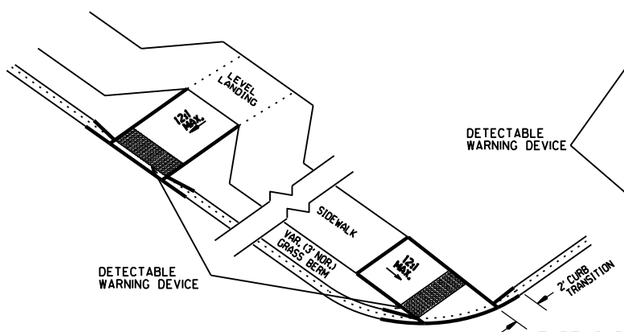
GENERAL NOTES:

IN NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS, WHEELCHAIR RAMPS ARE TO BE PROVIDED AT ALL CORNERS OF CURBED STREET INTERSECTIONS AND MID-BLOCK CROSSWALK LOCATIONS.
IN ALTERATIONS WHEELCHAIR RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS.
THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. THE SURFACE TEXTURE OF THE RAMP SHALL CONFORM TO A CLASS 6 FINISH ACCORDING TO SECTION 802.19.
THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
THE MINIMUM THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 4".
THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE WALK WIDTH OR 36", WHICHEVER IS GREATER.
RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM THE CENTER OF ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION.
THE DIMENSIONS AND QUANTITIES SHOWN ON THIS DRAWING ARE FOR A 90° INTERSECTION ONLY. DIMENSIONS AND QUANTITIES FOR SKEWED INTERSECTIONS WILL VARY, AND ARE TO BE DETERMINED BY THE ENGINEER.

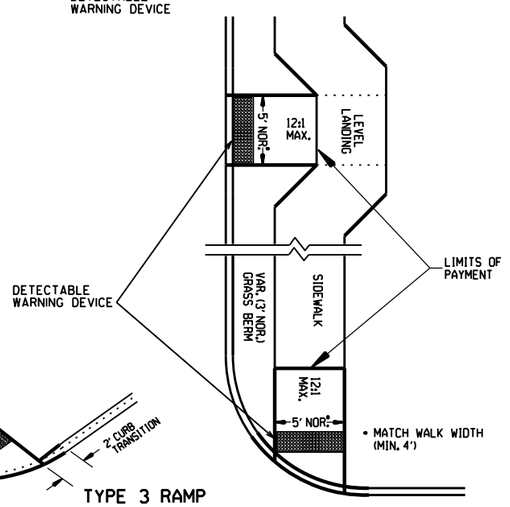


TYPE 2 RAMP

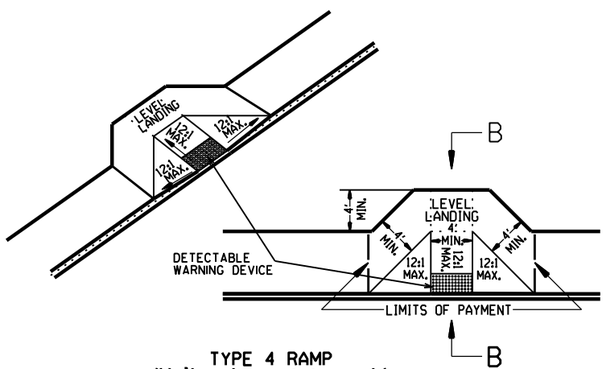




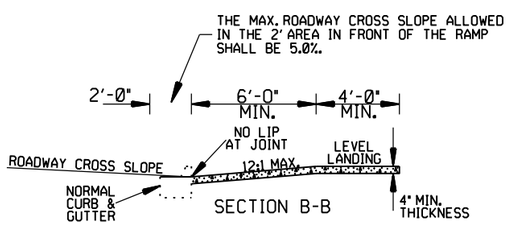
TYPE 3 RAMP



NOTE:
THE CROSS SLOPE OF THE RAMPS, LEVEL LANDINGS, AND SIDEWALKS SHALL NOT EXCEED 2.0% UNLESS REQUIRED TO MATCH STREET LONGTITUDINAL GRADE.



TYPE 4 RAMP
(Walk adjacent to curb)



SECTION B-B

RAMP SELECTION CRITERIA

FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 2	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE INSUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 3	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE SUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS).
SECOND CHOICE	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY).
THIRD CHOICE	TYPE 6	CORNER LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE TYPE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS.
FOURTH CHOICE		IF SITE CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, THEN AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO PROVIDE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). THE SLOPE CAN BE STEEPENED TO A 10:1 MAX. FOR A MAX. LENGTH OF 5' OR A 8:1 MAX. FOR A MAX. LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

NOTE: IN ALTERATIONS, THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED SHALL BE BASED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE PRESENCE OF OTHER SITE CONSTRAINTS (UTILITIES, BUILDINGS, ETC.). THE TABLE ABOVE LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED.

AN ALTERATION IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF A PEDESTRIAN PATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW CONSTRUCTION FOR THE PURPOSES OF THE CHART ABOVE.

DATE	REVISION	DATE FILM
11-10-05	REVISED TO NEW SIDEWALK POLICY	
10-9-03	REVISED GEN. NOTES & ADDED NOTE	
4-10-03	REV. DETECTABLE WARNING DEVICES	
8-22-02	ADD DETECTABLE WARNING DEVICES	
3-30-00	ADD.SLOPE TRANS. & REV. ISL. DIMS.	
11-18-98	REVISED NOTES	
8-12-98	REVISED TEXTURE	
7-02-98	REDRAWN & REISSUED	
10-18-96	CORRECTED DIMENSIONS	10-18-96
5-24-90	FROM8#TO12#MAX.SLOPES	5-24-90
7-15-88	ADJUSTED MAX. SLOPE	652-7-15-88
7-14-88	INCLUD."CONC. ISLD."IN PAY ITEM	------
6-02-76	ISSUED-P.H.D.	299-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS

STANDARD DRAWING WR-1