DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	1	151

(2) PEA RIDGE NATIONAL MILITARY PARK MITIGATION (S)

PERI 152541 DRAWING NO. 409/150019

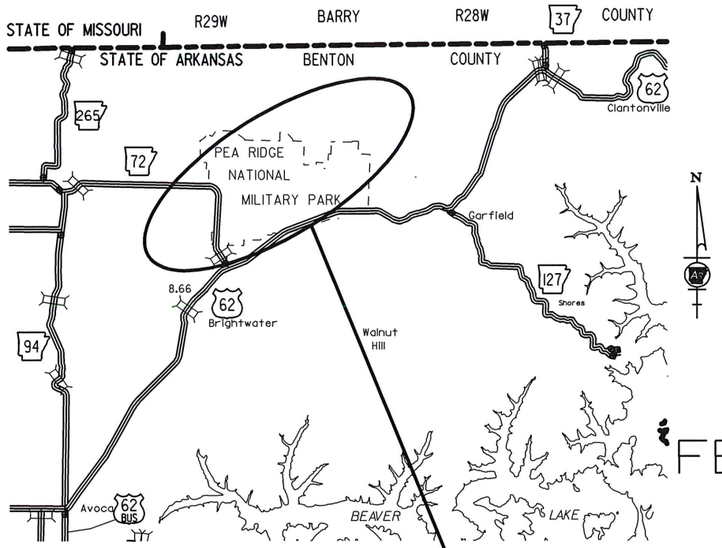
ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR NATIONAL PARK SERVICE

PEA RIDGE NATIONAL MILITARY PARK MITIGATION (S)

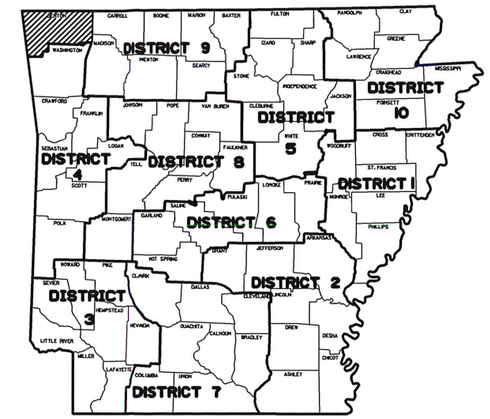
BENTON COUNTY

JOB 090384

FED. AID PROJ. STPF-CA-0004(67)



VICINITY MAP



ARK. HWY. DIST. NO. 9

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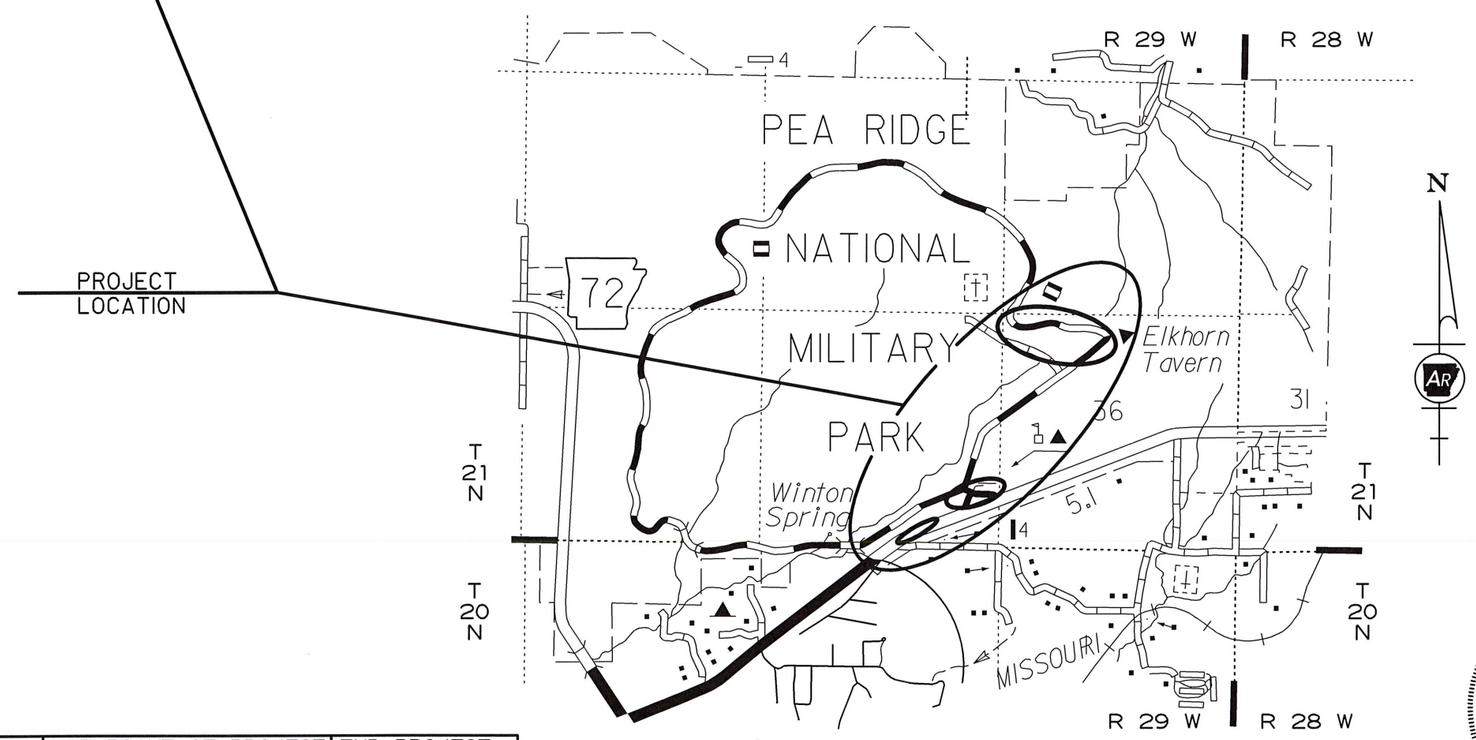

PROJECT LOCATION

• DESIGN TRAFFIC DATA •

DESIGN YEAR — — — — — — — — 2040
2020 ADT — — — — — — — — — 100
2040 ADT — — — — — — — — — 130
2040 DHV — — — — — — — — — 14
DIRECTIONAL DISTRIBUTION — — — 0.60
TRUCKS — — — — — — — — — — 1%
DESIGN SPEED
PARK ROAD ENTRANCE TWO-WAY — — — — — 25
PARK ROAD VISITOR ENTRANCE TWO-WAY — — 25
PARK ROAD VISITOR ENTRANCE ONE-WAY — — 15
PARK TOUR ROAD ONE-WAY — — — — — — — 25
ELKHORN TAVERN TWO TRACK — — — — — — 15

	BEGIN PROJECT	MID-POINT OF PROJECT	END PROJECT
LATITUDE	N 36°26′22″	N 36°27′10″	N 36°26′49″
LONGITUDE	W 94°01′56″	W 94°01′11″	W 94°00′24″

NO NET LENGTH INVOLVED

GROSS	LENGTH	OF	PROJECT	000.00	FEET	OR	0.000 MILES
NET	"	"	ROADWAY	000.00	"	"	0.000 "
NET	"	"	BRIDGES	000.00	"	"	0.000 "
NET	"	"	PROJECT	000.00	"	"	0.000 "

P.E. JOB 090204

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
09-22-2020
HUBERT BURNS

USER: fs513
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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.		090384	2	151

(2) INDEX OF SHEETS AND STANDARD DRAWINGS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020

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3	GOVERNING SPECIFICATIONS AND GENERAL NOTES
4	LEGEND
5 - 8	TYPICAL SECTIONS OF IMPROVEMENT
9 - 15	SPECIAL DETAILS
16 - 25	TEMPORARY EROSION CONTROL DETAILS
26 - 28	MAINTENANCE OF TRAFFIC DETAILS
29 - 30	PERMANENT PAVEMENT MARKING DETAILS
31 - 35	QUANTITIES
36	SUMMARY OF QUANTITIES AND REVISIONS
37 - 42	SURVEY CONTROL DETAILS
43 - 46	STAKING PLANS
47	PARK LAYOUT
48	PLAN AND PROFILE - SITE 1 - TOUR ROAD
49	PLAN - SITE 1 - ELKHORN TAVERN PARKING
50	ACCESSIBLE PARKING LAYOUT AND ROAD TAPER TRANSITIONS - SITE 1
51 - 52	GRADING PLAN - SITE 1 - ELKHORN TAVERN PARKING & TRAIL
53	SIDEWALK AND RESTROOM PLAZA - SITE 1 - ELKHORN TAVERN
54	PLAN AND PROIFLE - SITE 1 - TOUR ROAD
55	PLAN AND PROFILE - SITE 1 - ELKHORN TAVERN TWO TRACK
56	DEMOLITION PLAN - SITE 1 - ELKHORN TAVERN PARKING
57	DEMOLITION PLAN - SITE 1 - TOUR ROAD
58	PLAN AND PROFILE - SITE 2 - PARK ENTRANCE ROAD
59	PLAN AND PROFILE - SITE 3 - VISITOR CENTER PARK ENTRANCE ROAD
60	PROPOSED EASEMENT PLAN - SITE 3 - VISITOR CENTER
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62 - 65	ENLARGED PLAN - SITE 3 - VISITOR CENTER PARKING
66	ACCESSIBLE PARKING LAYOUT AND ROAD TAPER TRANSITIONS - SITE 3
67	SIDEWALK AND RAMP - SITE 3 - AT HEADQUARTERS
68	SIDEWALK AND RAMP - SITE 3 AT VISITOR CENTER
69	OVERALL GRADING PLAN - SITE 3 - VISITOR CENTER PARKING
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74	SIDEWALK AND RAMP - SITE 3 AT HEADQUARTERS
75	SIDEWALK AND PLAZA - SITE 3 AT VISITOR CENTER
76 - 77	PLAN AND PROFILE - SITE 3 - STORM DRAINAGE
78	DEMOLITION PLAN - SITE 3 - VISITOR CENTER PARKING
79	PLAN - SITE - HORSE TRAILER PARKING
80	GRADING PLAN - SITE 4 - HORSE TRAILER PARKING
81	PLAN AND PROFILE - SITE 4 - HORSE MOUNTING WALL AND BARRIER
82	DEMOLITION PLAN - SITE 4 - HORSE TRAILER PARKING
83 - 85	DEMOLITION PLAN - SITE 5 - ABANDONED HWY. 62 ROADBED
86 - 151	CROSS SECTIONS

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

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CG-1	CURBING DETAILS	11-29-07
FES-2	FLARED END SECTION	10-18-96
FPC-9	DETAILS OF DROP INLETS & JUNCTION BOXES	11-16-01
FPC-9M	DETAILS OF DROP INLET (TYPE MO)	08-22-02
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PM-1	PAVEMENT MARKING DETAILS	02-27-20
SHS-1	STANDARD HIGHWAY SIGNS AND SUPPORTS ASSEMBLIES	09-12-13
SHS-2	U-CHANNEL POST ASSEMBLIES	07-25-19
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
SI-2	REINFORCED CONCRETE RETAINING WALL (WITHOUT LIVE LOAD SURCHARGE)	05-14-20
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	02-27-20
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-29-2020

GOVERNING SPECIFICATIONS

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

NUMBER	TITLE
ERRATA_____	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273__	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273__	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273__	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273__	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273__	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273__	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273__	SUPPLEMENT - WAGE RATE DETERMINATION
100-3_____	CONTRACTOR'S LICENSE
100-4_____	DEPARTMENT NAME CHANGE
102-2_____	ISSUANCE OF PROPOSALS
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
404-3_____	DESIGN OF ASPHALT MIXTURES
410-1_____	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2_____	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
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)
620-1_____	MULCH COVER
621-1_____	FILTER SOCKS
633-1_____	CONCRETE WALKS, CONCRETE STEPS, AND HAND RAILING
634-1_____	CURBING
723-1_____	GENERAL REQUIREMENTS FOR SIGNS
729-1_____	CHANNEL POST SIGN SUPPORT
JOB 090384__	ARCHITECTURAL FINISH (CAST-IN PLACE RETAINING WALLS)
JOB 090384__	BIDDING REQUIREMENTS AND CONDITIONS
JOB 090384__	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 090384__	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 090384__	CANTILEVER CHAIN LINK GATE ASSEMBLY WITH BARBED WIRE
JOB 090384__	CAR BAY MARKING DOTS
JOB 090384__	CARGO PREFERENCE ACT REQUIREMENTS
JOB 090384__	CAVE DISCOVERY
JOB 090384__	CONCRETE FLUME
JOB 090384__	CONCRETE PULL BOX
JOB 090384__	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 090384__	EROSION CONTROL BLANKET
JOB 090384__	EXPOSED AGGREGATE CONCRETE WALKS
JOB 090384__	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 090384__	HAND RAILING (TYPE SPECIAL)
JOB 090384__	HEADWALLS
JOB 090384__	MANDATORY ELECTRONIC CONTRACT
JOB 090384__	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 090384__	NATIONAL PARK SERVICE SPECIAL CONDITIONS
JOB 090384__	OBLITERATION OF EXISTING ROADWAY
JOB 090384__	OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB 090384__	REMOVING AND REPLACING TOPSOIL
JOB 090384__	RETAINING WALLS
JOB 090384__	SHORING FOR CULVERTS
JOB 090384__	SIDEWALK UNDERDRAIN
JOB 090384__	SOIL STABILIZATION
JOB 090384__	SPECIAL CLEARING PUP SEASON REQUIREMENTS
JOB 090384__	SPECIAL SEEDING REQUIREMENTS
JOB 090384__	STORM WATER POLLUTION PREVENTION PLAN
JOB 090384__	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 090384__	TEMPORARY FENCE
JOB 090384__	UTILITY ADJUSTMENTS
JOB 090384__	VALUE ENGINEERING
JOB 090384__	WARM MIX ASPHALT
JOB 090384__	WELDED PIPE FENCE
JOB 090384__	WHEEL STOPS
JOB 090384__	WHEELCHAIR RAMPS (TYPE SPECIAL)

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.
4. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
5. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE PROTECTED AND CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO VEGETATION APPROVED BY ENGINEER TO REMAIN.
6. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
7. 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.
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 WORK AND MATERIALS SHALL BE IN ACCORDANCE THE ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION AND ARDOT STANDARD DRAWINGS OR DETAILS UNLESS NOTED OTHERWISE.
10. EXISTING SIGNS AT THE ELKHORN TAVERN PARKING AREA (SITE 1), THE VISITOR CENTER PARKING AREA (SITE 3) AND HORSE TRAILER PARKING AREA (SITE 4) SHOWN TO BE REMOVED SHALL BE THE PROPERTY OF THE NATIONAL PARK SERVICE.
11. SEED AND MULCH PER CONTRACT AS APPROVED BY ENGINEER.
12. JOINTING FOR ALL CONCRETE SURFACES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE ARDOT STANDARD DETAILS FOR HIGHWAY CONSTRUCTION, 2014 EDITION UNLESS NOTED OTHERWISE.
13. ALL CURB & GUTTER SHALL BE ARDOT TYPE A UNLESS SHOWN OTHERWISE. ALL CURB AT THE HORSE TRAILER PARKING AREA SHALL BE TYPE B UNLESS SHOWN OTHERWISE.
14. WHEELCHAIR RAMPS (INCLUDING CAST IRON TACTILE PANELS/WARNING DEVICES) SHALL BE CONSTRUCTED AS SHOWN IN THE PLANS.
15. ALL STRIPING SHALL BE REFLECTORIZED PAINT PAVEMENT MARKINGS AND SHALL BE IN ACCORDANCE WITH SECTION 718 OF THE ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION UNLESS NOTED OTHERWISE. THE COLOR AND WIDTH OF STRIPING SHALL BE AS SHOWN ON THE PLANS.
16. ALL SIGNAGE WITHIN THE PARKING AREAS SHALL BE MOUNTED ON AN ARDOT TYPE A CHANNEL POST SIGN SUPPORT ASSEMBLY. SIGNAGE SHALL INCLUDE ACCESSIBLE PARKING SIGNS AND REGULATORY SIGNS. BOTH SIGNAGE AND MOUNTING SHALL BE IN ACCORDANCE WITH THE ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION AND MUST BE APPROVED BY THE NATIONAL PARK SERVICE.
17. RETAINING WALLS CONSTRUCTED FOR THE HORSE MOUNTING BLOCK AREA OF THE HORSE TRAILER PARKING AREA SHALL BE PER ARDOT STANDARD DRAWING SI-2 IN ACCORDANCE WITH THE ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION. PROVIDE SHOP DRAWINGS FOR ENGINEER'S APPROVAL.

GOVERNING SPECIFICATIONS AND GENERAL NOTES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
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(2) LEGEND

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

LEGEND (EXISTING SYMBOLS)

SYMBOLS

- FOUND IRON PIN
- LIGHT POLE
- POWER POLE
- TELEPHONE PEDESTAL
- TV PEDESTAL
- MANHOLE
- SANITARY SEWER CLEANOUT
- GAS METER
- GAS VALVE
- STORM SEWER PIPE
- DOWN GUY
- WATER VALVE
- FIRE HYDRANT ASSEMBLY
- AIR RELEASE VALVE
- FIRE DEPARTMENT CONNECTION
- WATER METER
- SPRINKLER HEAD
- ELECTRIC PEDESTAL
- GRATED INLET
- DROP INLET
- TREE
- TREE TO BE REMOVED

LINEWORK

- EASEMENT
- CURB
- INTERMEDIATE CONTOUR (1206)
- INDEX CONTOUR (1205)
- SANITARY SEWER LINE (SS)
- GAS LINE (G)
- WATER LINE (SPECIFY SIZE & TYPE) (W)
- UNDERGROUND TELEPHONE (UGT)
- UNDERGROUND ELECTRIC (UGE)
- OVERHEAD ELECTRIC (OHE)
- UNDERGROUND TELEVISION (UGTV)
- OVERHEAD TELEVISION (OHTV)
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE FENCE
- FIBER OPTIC
- RIGHT OF WAY
- ROAD CENTERLINE
- EXISTING DRAINAGE/DITCH

LEGEND (CONSTRUCT)

SYMBOLS

- SET IRON PIN
- LIGHT POLE
- POWER POLE
- TELEPHONE PEDESTAL
- TV PEDESTAL
- MANHOLE
- SANITARY SEWER CLEANOUT
- GAS METER
- GAS VALVE
- STORM SEWER PIPE
- (X-X) STRUCTURE NUMBER
- WATER VALVE
- FIRE HYDRANT ASSEMBLY
- AIR RELEASE VALVE
- FIRE DEPARTMENT CONNECTION
- WATER METER
- BACK FLOW PREVENTER
- REDUCER
- RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)
- CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)
- STANDARD PULL BOX ARDOT DRAWING SD-6 TYPE 1
- HEAVY DUTY PULL BOX ARDOT DRAWING SD-6 TYPE 2

LINEWORK

- EASEMENT
- CURB
- INTERMEDIATE CONTOUR (1206)
- INDEX CONTOUR (1205)
- SANITARY SEWER LINE
- GAS LINE
- WATER LINE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- FIBER OPTIC
- UNDERGROUND TELEVISION
- OVERHEAD TELEVISION (OHTV)
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE FENCE
- BUILDING SET BACK
- RIGHT OF WAY
- PROPERTY LINE
- ROAD CENTERLINE
- CONSTRUCTION LIMITS
- TEMPORARY CONSTRUCTION EASEMENT
- UGC-2" UNDERGROUND CONDUIT - ELECTRICAL
- UGC-1" UNDERGROUND CONDUIT - CCTV

GRADING PLAN SPOT ELEVATIONS

FG	FINISHED GRADE
TW	TOP WALL
BW	BOTTOM WALL
℄	FLOW LINE
TC	TOP CURB
G	GUTTER
SW	SIDEWALK
TP	TOP PAVEMENT
×EG	EXISTING GRADE

NOTE:
TYPICAL LEGEND LINES AND SYMBOLS

PAVING LEGEND

LINEWORK

- CURB (TO BE RMOVED)
- CONCRETE SIDEWALK
- CONCRETE PAVING
- REGULAR DUTY ASPHALT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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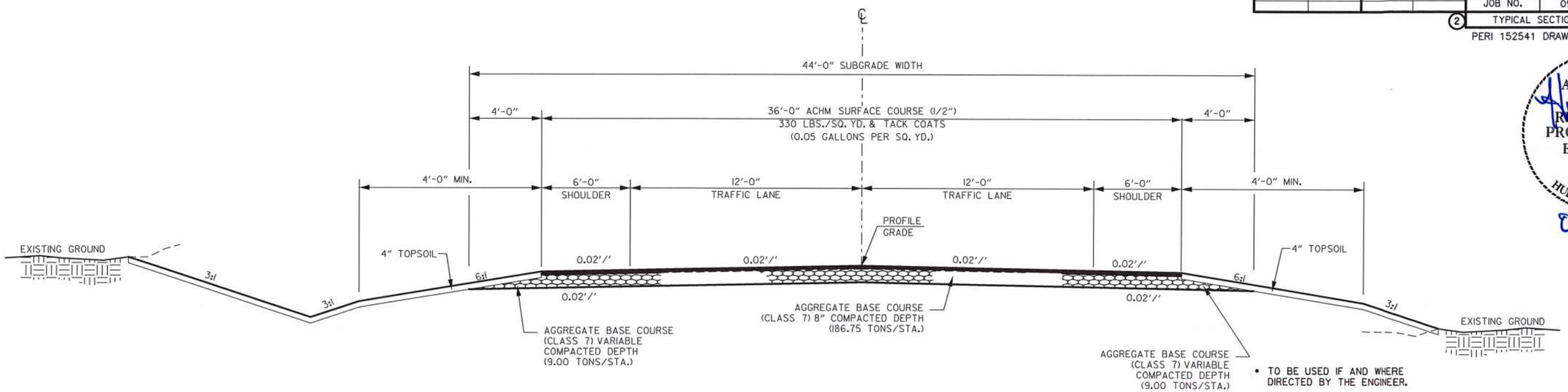
(2) TYPICAL SECTIONS OF IMPROVEMENT

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020

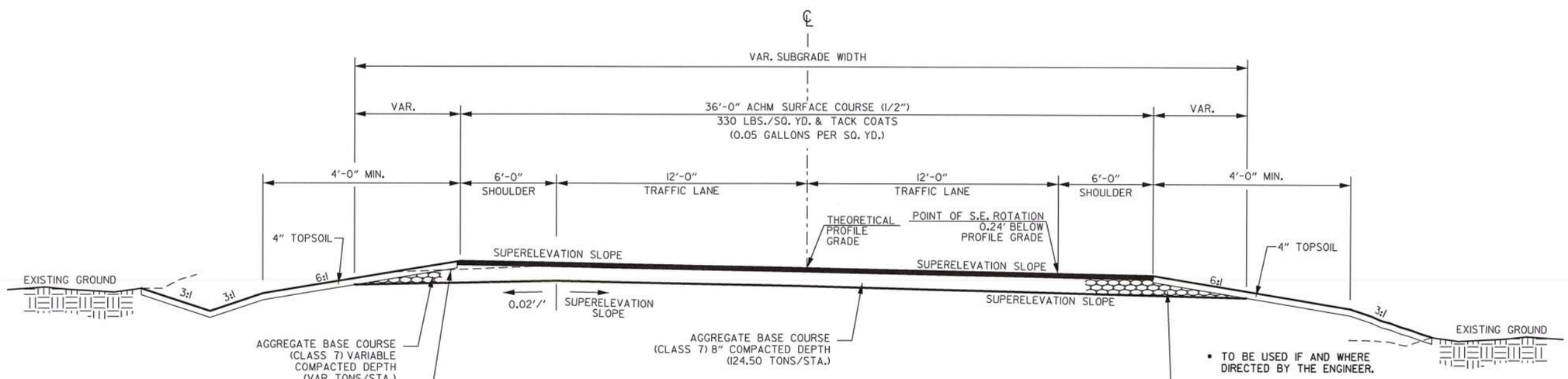


TANGENT SECTION
PARK ENTRANCE ROAD
FULL DEPTH

SITE 2 STA. 10+31.50 TO STA. 10+59.50

TYPICAL SECTION NOTES:

1. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
2. 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.



SUPERELEVATION SECTION
PARK ENTRANCE ROAD
FULL DEPTH

SITE 2 STA. 10+59.50 TO STA. 13+50.00

TYPICAL SECTIONS OF IMPROVEMENT

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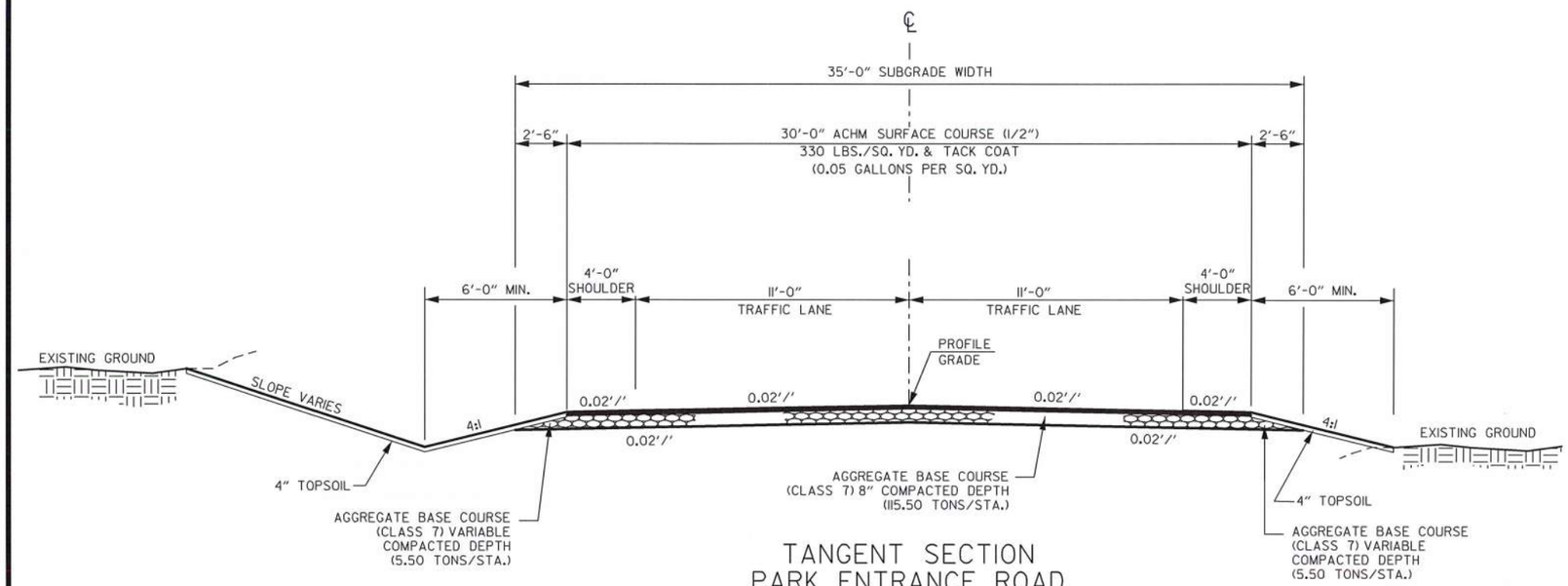
				6	ARK.			
				JOB NO.		090384	6	151

(2) TYPICAL SECTIONS OF IMPROVEMENT

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020



TANGENT SECTION
PARK ENTRANCE ROAD
(ENTRANCE TO VISITOR CENTER)
FULL DEPTH

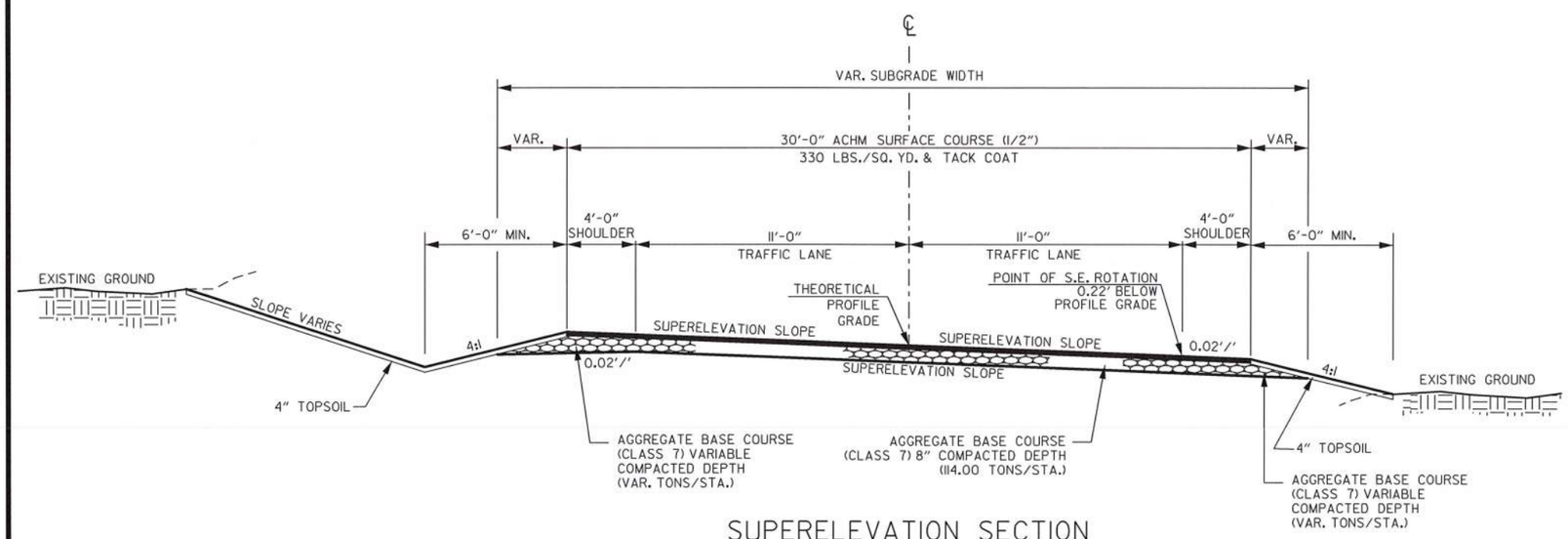
SITE 2 STA. 15+21.29 TO 25+00.00
SITE 3 STA. 25+00.00 TO 31+20.00

NOTE:
TRANSITION FROM PARK ENTRANCE ROAD SECTION TO ENTRANCE TO VISITOR CENTER SECTION FROM STA. 16+00.00 TO STA. 16+50.00.

TRANSITION FROM 2-LANE ENTRANCE TO VISITOR CENTER SECTION TO 1-LANE ENTRANCE TO VISITOR CENTER SECTION FROM STA. 31+34.31 TO STA. 32+09.31.

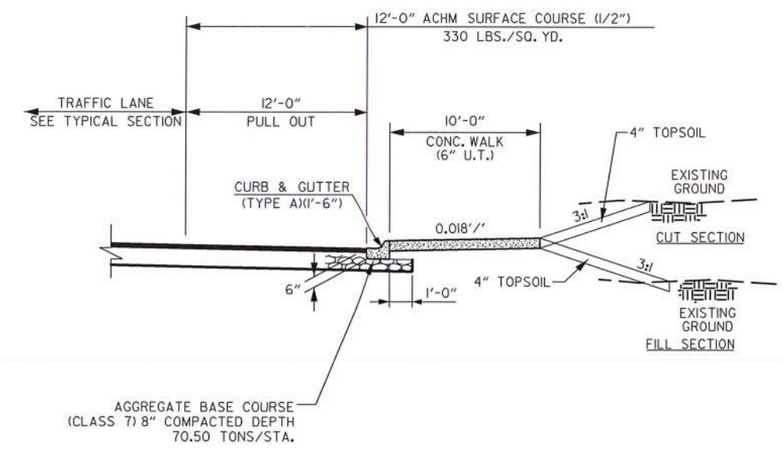
TYPICAL SECTION NOTES:

1. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
2. 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.
3. 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.



SUPERELEVATION SECTION
PARK ENTRANCE ROAD
(ENTRANCE TO VISITOR CENTER)
FULL DEPTH

SITE 2 STA. 14+00.00 TO 15+21.29



PULL OUT DETAIL

SITE 2 PARK ENTRANCE ROAD STA. 12+25.00 TO STA. 13+75.00 RT.

TYPICAL SECTIONS OF IMPROVEMENT

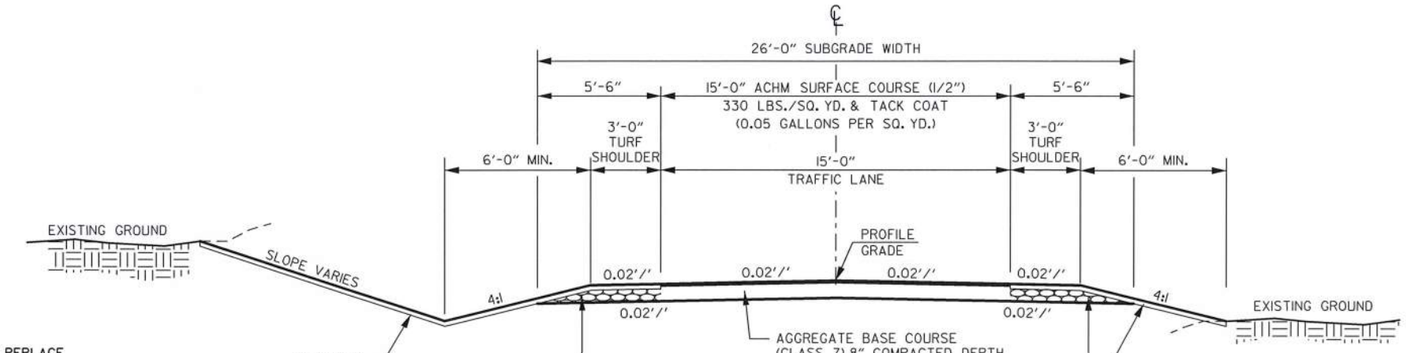
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\typical\r090384 typ.dgn
PLOTTED: 9/8/2020 09:33 SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	7	151

(2) TYPICAL SECTIONS OF IMPROVEMENT

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020



- IF WIDTH IS LESS THAN 4' REPLACE BINDER COURSE WITH P.C.C.B.

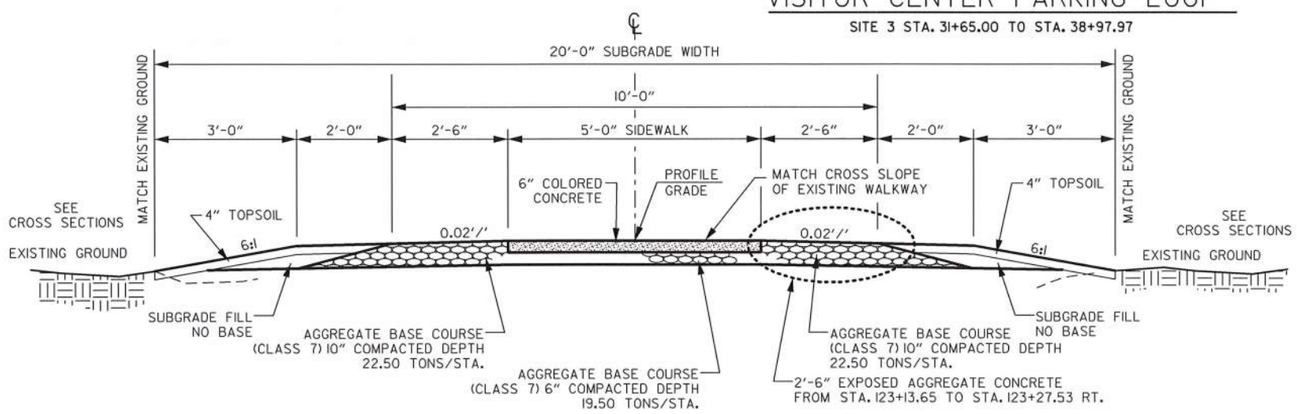
NOTE:
TRANSITION FROM 2-LANE ENTRANCE TO VISITOR CENTER SECTION TO 1-LANE ENTRANCE TO VISITOR CENTER SECTION FROM STA. 31+34.31 TO STA. 32+09.31.

TANGENT SECTION
PARK ENTRANCE ROAD - ONE WAY
VISITOR CENTER PARKING LOOP

SITE 3 STA. 31+65.00 TO STA. 38+97.97

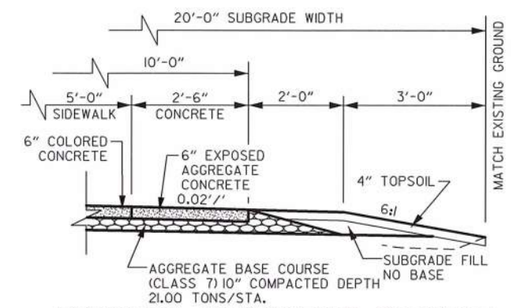
TYPICAL SECTION NOTES:

1. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
2. 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.
3. 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.



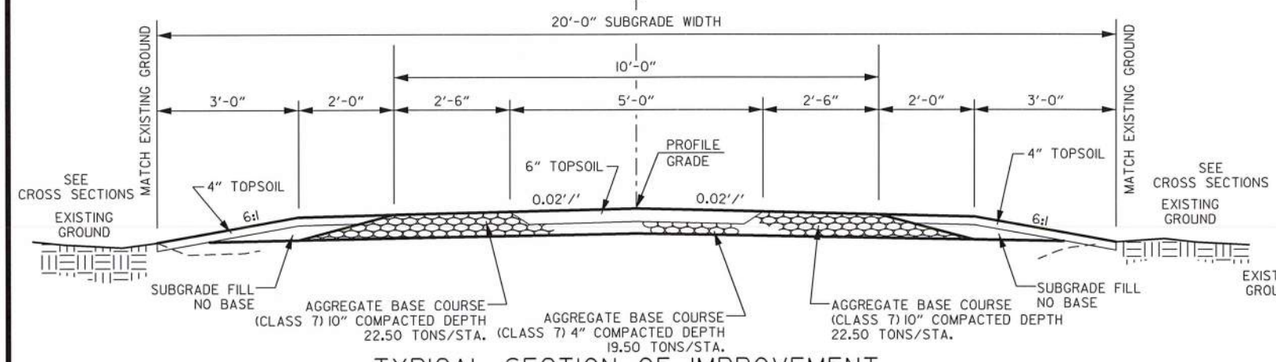
TYPICAL SECTION OF IMPROVEMENT
ELKHORN TAVERN (TWO TRACK)

SITE 6 STA. 122+55.39 TO STA. 123+27.53
(SEE 2'-6" EXPOSED AGG. CONC. RT. FOR 123+13.65 TO 123+27.53)



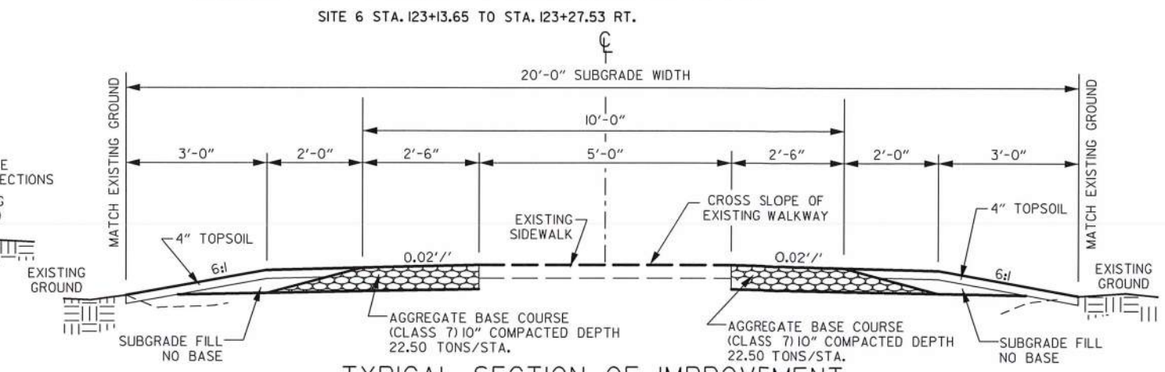
EXPOSED AGGREGATE PORTION
ELKHORN TAVERN (TWO TRACK)

SITE 6 STA. 123+13.65 TO STA. 123+27.53 RT.



TYPICAL SECTION OF IMPROVEMENT
ELKHORN TAVERN (TWO TRACK)

SITE 6 STA. 123+27.53 TO STA. 130+03.83



TYPICAL SECTION OF IMPROVEMENT
ELKHORN TAVERN (TWO TRACK)

SITE 6 STA. 119+95.00 TO STA. 122+55.39

TYPICAL SECTIONS OF IMPROVEMENT

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\typical\r090384 typ.dgn
PLOTTED: 9/8/2020 09:33 SCALE: 1:10

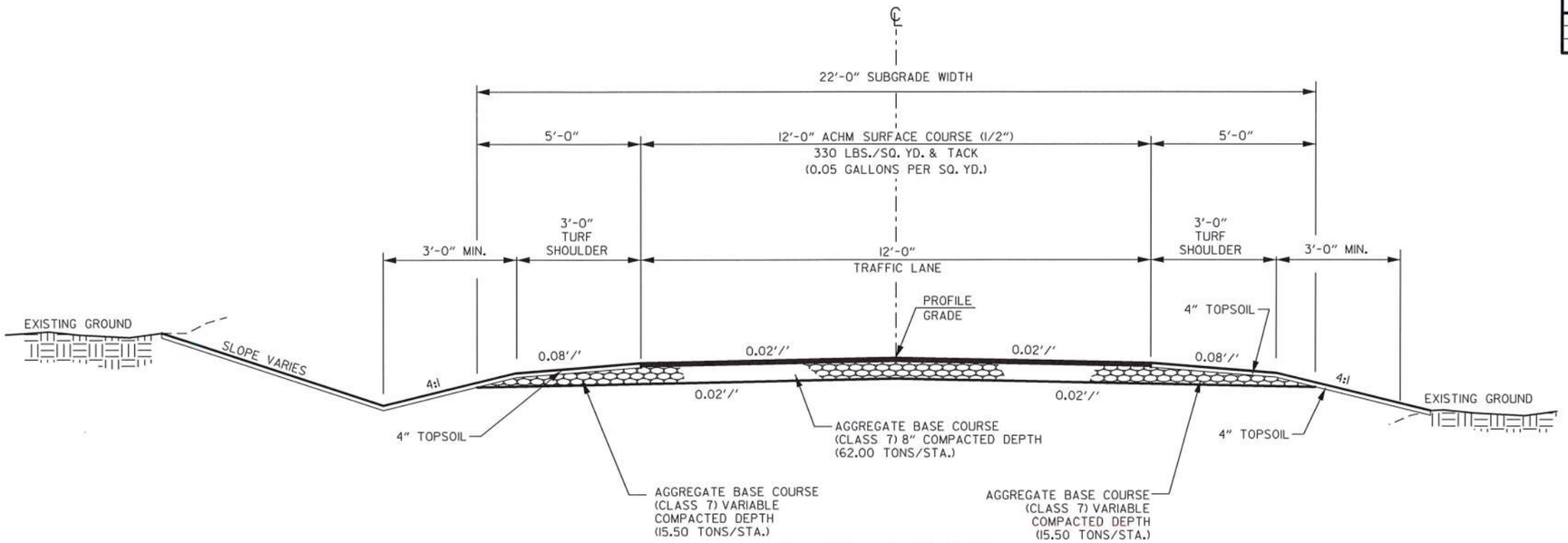
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	8	151

(2) TYPICAL SECTIONS OF IMPROVEMENT

PERI 152541 DRAWING NO. 409/150019

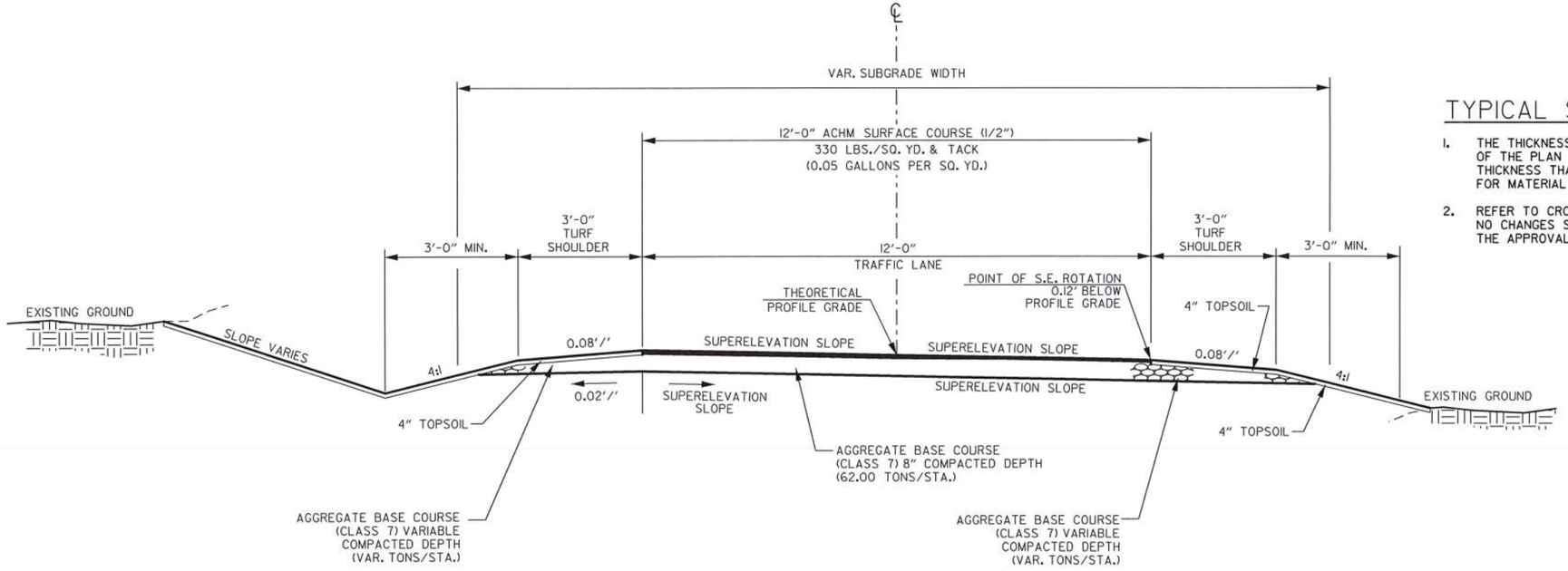
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020



TANGENT SECTION
PARK TOUR ROAD

SITE 1 STA. 52+17.96 TO 60+97.49
SITE 1 STA. 66+42.24 TO 70+34.96



SUPERELEVATION SECTION
PARK TOUR ROAD

TYPICAL SECTION NOTES:

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

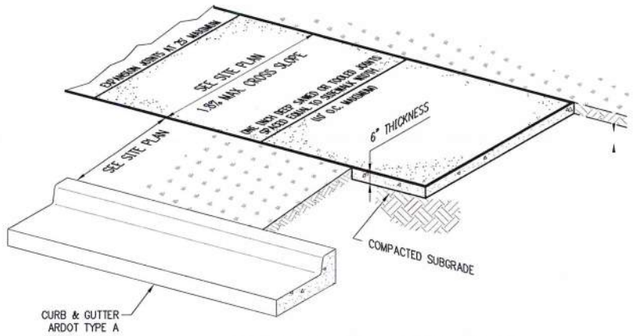
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	9	151

2 SPECIAL DETAILS

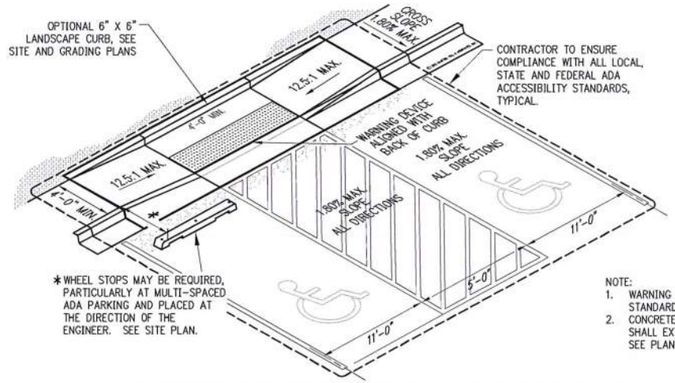
PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

NOTES:
1. PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS.
2. PROVIDE 1/2" TOOLED RADIUS ON ALL EDGES.

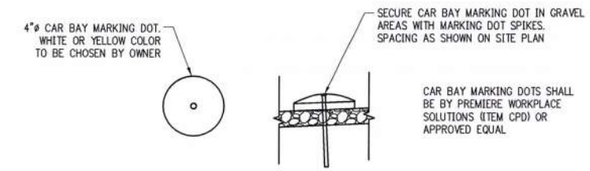


SIDEWALK WITH GREEN SPACE
NTS



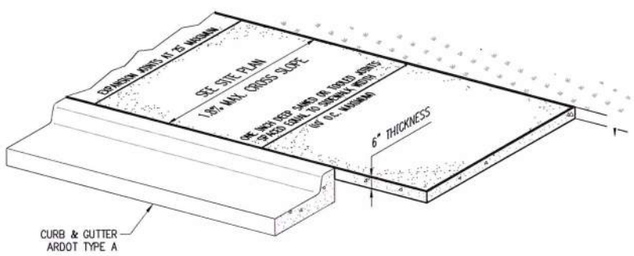
NOTE:
1. WARNING DEVICE SHALL BE PER ARDOT STANDARD DRAWING WR-1
2. CONCRETE PAVING FOR ACCESSIBLE PARKING SHALL EXTEND BEYOND THE PAINTING LIMITS. SEE PLAN SHEETS FOR DIMENSIONS.

DEPRESSED SIDEWALK AND CURB ACCESSIBLE RAMP
NTS

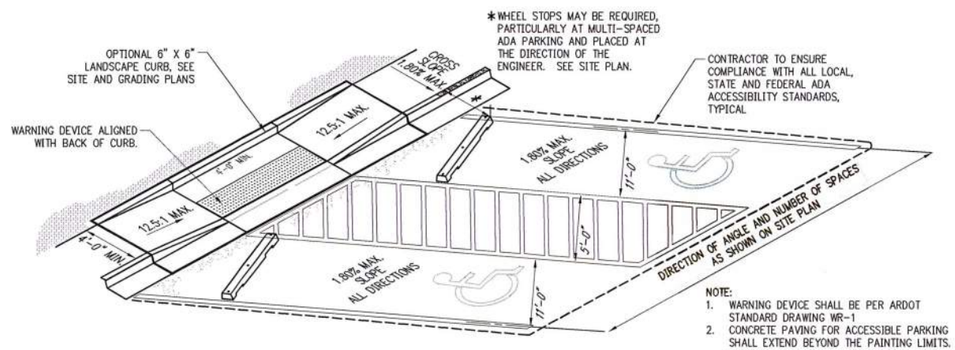


CAR BAY MARKER DOT
NTS

NOTES:
1. PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS.
2. PROVIDE 1/2" TOOLED RADIUS ON ALL EDGES.

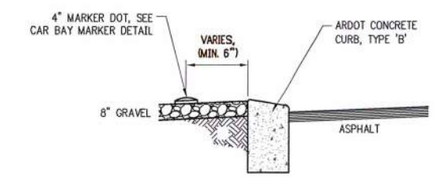


SIDEWALK WITH CURB
NTS



NOTE:
1. WARNING DEVICE SHALL BE PER ARDOT STANDARD DRAWING WR-1
2. CONCRETE PAVING FOR ACCESSIBLE PARKING SHALL EXTEND BEYOND THE PAINTING LIMITS. SEE PLAN SHEETS FOR DIMENSIONS.

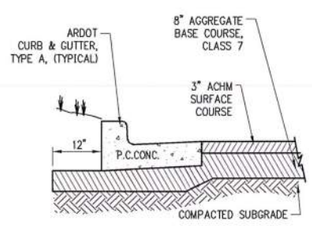
DEPRESSED SIDEWALK AND CURB ACCESSIBLE RAMP
NTS ANGLED PARKING LAYOUT



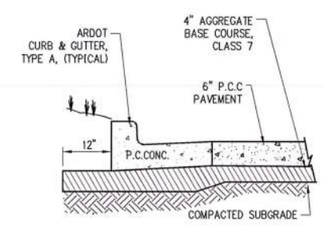
HORSE TRAILHEAD PARKING DETAIL – EDGE OF GRAVEL PARKING AND ASPHALT ROADWAY / CIRCULATION LANE IN PARKING AREA
NTS

NOTES:

1. THE SUBGRADE UNDER PAVEMENTS SHALL BE PREPARED IN ACCORDANCE WITH ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.
2. AFTER PROOF ROLLING WITH A LOADED TANDEM AXLE DUMP TRUCK AND PREPARING DEEP SUBGRADE DEFICIENCIES, THE ENTIRE SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 8" AND UNIFORMLY COMPACTED TO AT LEAST 95% OF MODIFIED PROCTOR.
3. AGGREGATE BASE COURSE MIXTURES SHALL CONFORM WITH THE GRADATION, COMPACTION AND OTHER REQUIREMENTS SHOWN IN ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.
4. ASPHALTIC SURFACE SHALL CONFORM WITH THE GRADATION, COMPACTION AND OTHER REQUIREMENTS SHOWN IN ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.
5. PORTLAND CEMENT CONCRETE PAVEMENT SHALL CONFORM WITH THE REQUIREMENTS SHOWN IN ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.
6. THE CONTRACTOR SHALL APPLY A TACK COAT TO THE FACE OF THE CONCRETE GUTTER WHERE THE GUTTER CONTACTS ASPHALT.

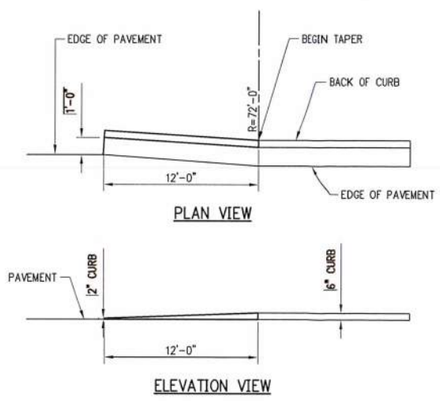


ASPHALT PAVING



CONCRETE PAVING

PAVEMENT SECTIONS
NTS



CURB TRANSITION (TAPER)
NTS

SPECIAL DETAILS

DRAWING G:\151019G_FEMEDG\APPR\STRCTRY\CHOLOW\CONSTRUCTION\DETAILS.DWG
LAYOUT: 1 SAVED: 9/3/2020 3:23 PM PLOTTED BY VAID ON HARD COPY ONLY
CONTRACT: 151019G SCALE: 1:1 PLOTTED: 9/3/2020 3:23 PM

THESE DETAILS ARE PRODUCED BY CRAFTON, TULL AND ASSOCIATES, INC., AND BASED ON THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, DEPARTMENT OF JUSTICE, SEPTEMBER 15, 2010. WWW.ADA.GOV

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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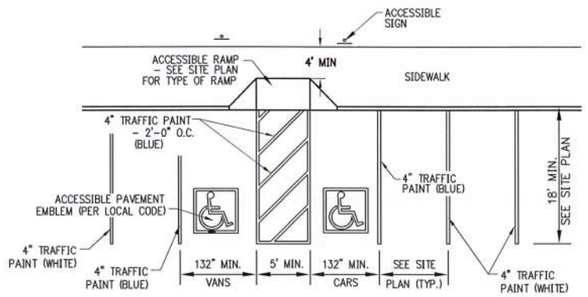
2 SPECIAL DETAILS

PERI 152541 DRAWING NO. 409/150019

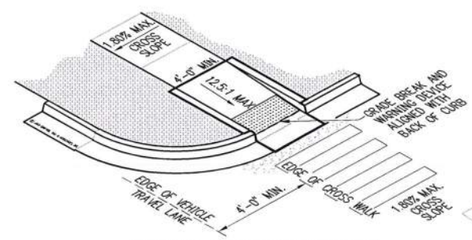
STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS OTHERWISE NOTED. COLOR OF ALL ACCESSIBLE TRAFFIC PAINT SHALL BE PER LOCAL CODE (WHITE, YELLOW, ETC.)

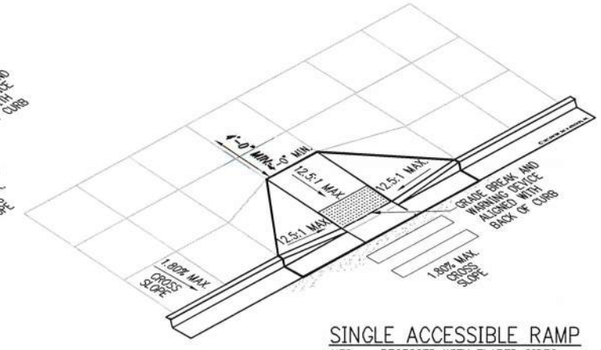
208.2.4 VAN PARKING SPACES:
FOR EVERY SIX OR FRACTIONAL OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

VAN ACCESSIBLE PARKING STRIPING
NTS



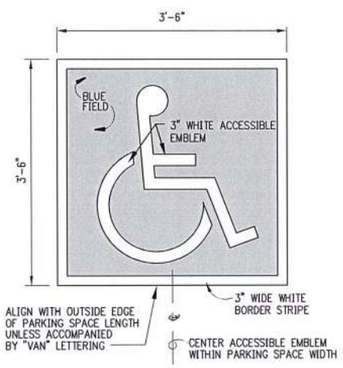
SINGLE ACCESSIBLE RAMP
NTS SMALLER RADIUS WITH CURBED SIDES

NOTE: WARNING DEVICE SHALL BE PER ARDOT STANDARD DRAWING WR-1



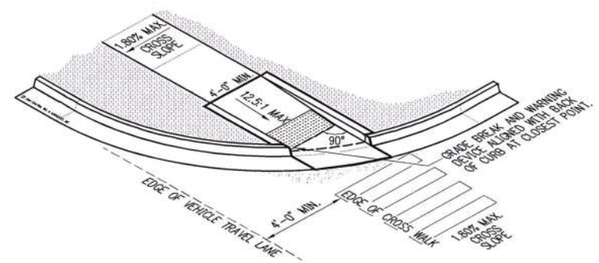
SINGLE ACCESSIBLE RAMP
NTS RECESSED WITH FLARED SIDES

NOTE: WARNING DEVICE SHALL BE PER ARDOT STANDARD DRAWING WR-1



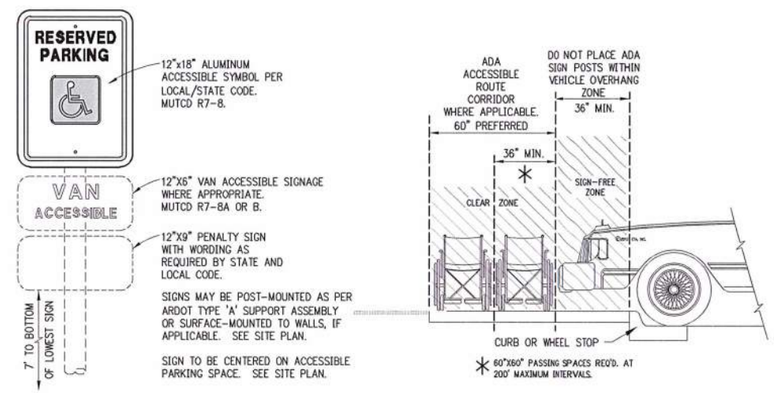
NOTE: WHITE FIELD WITH BLUE EMBLEM NPS STANDARD WILL TAKE PRECEDENCE FOR EMBLEM SIZE, COLOR AND LOCATION.

ACCESSIBLE PAVEMENT EMBLEM
NTS

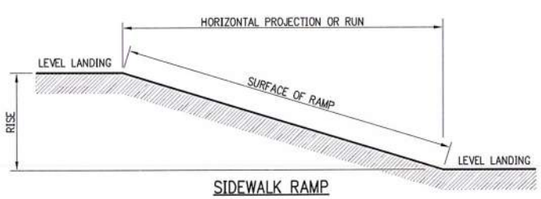


SINGLE ACCESSIBLE RAMP
NTS LARGER RADIUS WITH CURBED SIDES

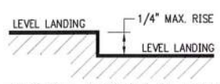
NOTE: WARNING DEVICE SHALL BE PER ARDOT STANDARD DRAWING WR-1



ACCESSIBLE SIGN / PLACEMENT LIMITS
NTS

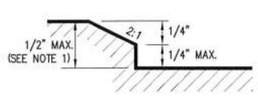


SIDEWALK RAMP



VERTICAL CHANGES IN LEVEL

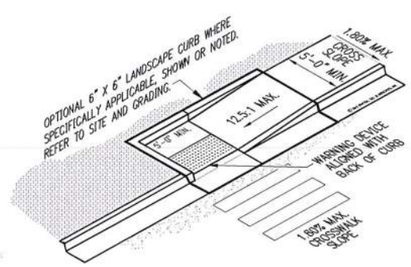
SLOPE	MAXIMUM RISE	MAXIMUM HORIZONTAL PROJECTION OR RUN
1:12 TO < 1:16	30 INCHES	30 FEET
1:16 TO < 1:20	30 INCHES	40 FEET



BEVELED LEVEL CHANGES

NOTES:
1. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
2. RAMP RUN GREATER THAN 6 INCHES OF RISE OR 6 FEET IN HORIZONTAL PROJECTION SHALL HAVE HANDRAILS ON BOTH SIDES, EXCEPT CURB RAMPS.
3. HANDRAILS SHALL BE 34" TO 38" HIGH AND A MINIMUM OF 36" APART. HANDRAILS MUST EXTEND 12" BEYOND TOP AND BOTTOM OF THE RAMP SEGMENT.

IN-LINE ACCESSIBLE ROUTE / SIDEWALK RAMP – CHANGES IN LEVEL
NTS



SIDEWALK AND CURB ACCESSIBLE RAMP WITH CROSSWALK
NTS

NOTE: WARNING DEVICE SHALL BE PER ARDOT STANDARD DRAWING WR-1

GENERAL NOTES:

1. IN NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS, ACCESSIBLE RAMPS ARE TO BE PROVIDED AT ALL CORNERS OF CURBED STREET INTERSECTIONS AND MID-BLOCK CROSSWALK LOCATIONS, WHERE SHOWN IN PLANS.
2. IN ALTERATIONS, ACCESSIBLE RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS, WHERE SHOWN IN PLANS.
3. THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 1:12.5. THE SURFACE TEXTURE SHALL BE BROOM FINISH.
4. THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
5. 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.
6. THE MINIMUM CONCRETE THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 6 INCHES.
7. THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE EXISTING WALK WIDTH OR 48 INCHES, WHICHEVER IS GREATER.
8. RAMPS SHALL BE CONSTRUCTED 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.
9. THE DIMENSIONS SHOWN ON THIS DRAWING ARE FOR A 90° INTERSECTION ONLY. DIMENSIONS FOR SKEWED INTERSECTIONS WILL VARY, AND ARE TO BE DETERMINED BY THE ENGINEER.
10. THE MAXIMUM CROSS SLOPES OF RAMPS AND SIDEWALKS SHALL NOT EXCEED 1.8 PERCENT.
11. CONTRACTOR TO ASSURE LATEST-EDITION COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL ADA ACCESSIBILITY STANDARDS.

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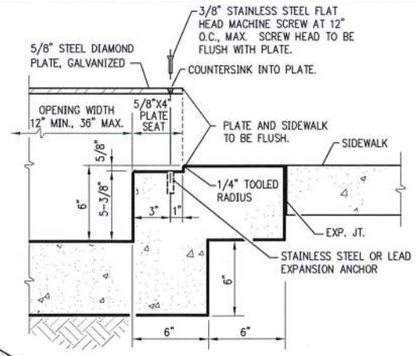
2 SPECIAL DETAILS

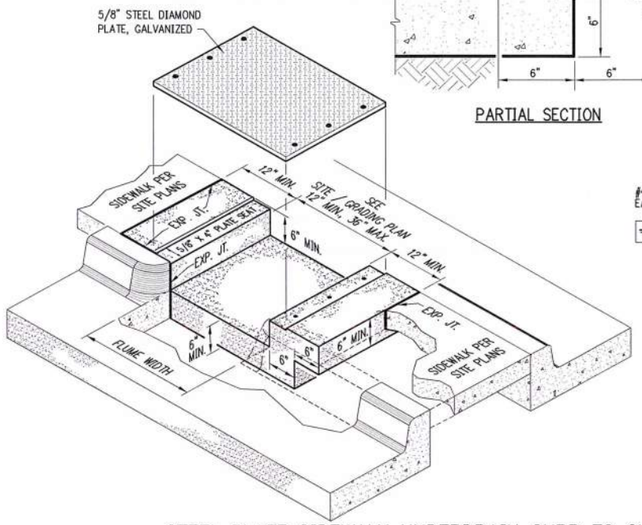
PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS 9-3-2020 REGISTERED PROFESSIONAL ENGINEER No. 10855 TROY D. BROWN

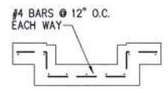
NOTE: ALL MATERIALS, WORKMANSHIP, FINISHING AND JOINTING ASSOCIATED WITH CONCRETE SHALL BE IN ACCORDANCE WITH ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION), SECTION 633 (CONCRETE WALKS).



PARTIAL SECTION

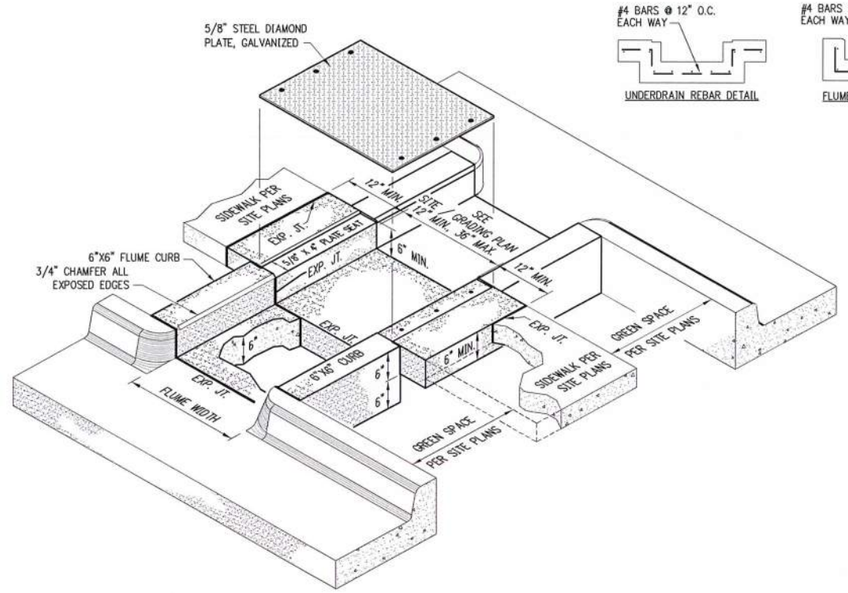


STEEL PLATE SIDEWALK UNDERDRAIN CURB TO CURB
NTS



REBAR DETAIL

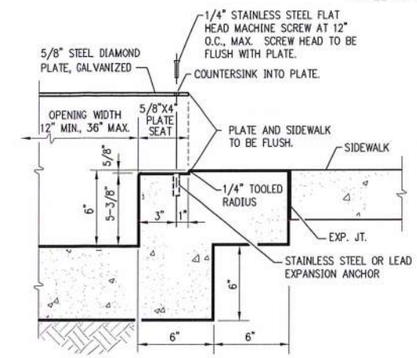
NOTE: ALL MATERIALS, WORKMANSHIP, FINISHING AND JOINTING ASSOCIATED WITH CONCRETE SHALL BE IN ACCORDANCE WITH ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION), SECTION 633 (CONCRETE WALKS).



STEEL PLATE SIDEWALK UNDERDRAIN CURB TO CURB WITH GREEN SPACE
NTS

UNDERDRAIN REBAR DETAIL

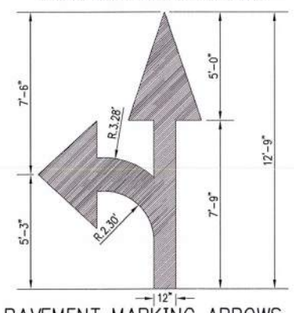
FLUME REBAR DETAIL



PARTIAL SECTION

NOTES:

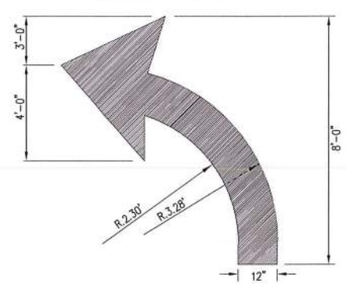
1. LETTERS, NUMBERS AND ARROWS FOR DRIVEWAYS, PARKING LOTS AND STREETS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. PAVEMENT MARKINGS TO BE REFLECTIVE WHITE PAINT OR THERMOPLASTIC AS INDICATED IN THE PLANS.



PAVEMENT MARKING ARROWS TURN & THROUGH LANE-USE
NTS

NOTES:

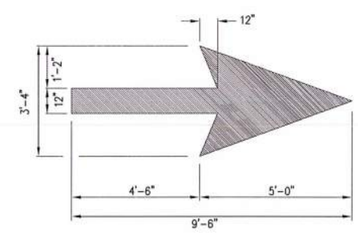
1. LETTERS, NUMBERS AND ARROWS FOR DRIVEWAYS, PARKING LOTS AND STREETS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. PAVEMENT MARKINGS TO BE REFLECTIVE WHITE PAINT OR THERMOPLASTIC AS INDICATED IN THE PLANS.



PAVEMENT MARKING ARROWS RIGHT OR LEFT TURN
NTS

NOTES:

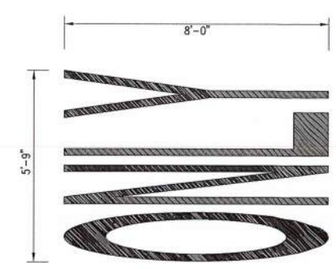
1. LETTERS, NUMBERS AND ARROWS FOR DRIVEWAYS, PARKING LOTS AND STREETS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. PAVEMENT MARKINGS TO BE REFLECTIVE WHITE PAINT OR THERMOPLASTIC AS INDICATED IN THE PLANS.



PAVEMENT MARKING ARROW
NTS

NOTES:

1. LETTERS, NUMBERS AND ARROWS FOR DRIVEWAYS, PARKING LOTS AND STREETS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. PAVEMENT MARKINGS TO BE REFLECTIVE WHITE PAINT OR THERMOPLASTIC AS INDICATED IN THE PLANS.



"ONLY" PAVEMENT MARKING
NTS

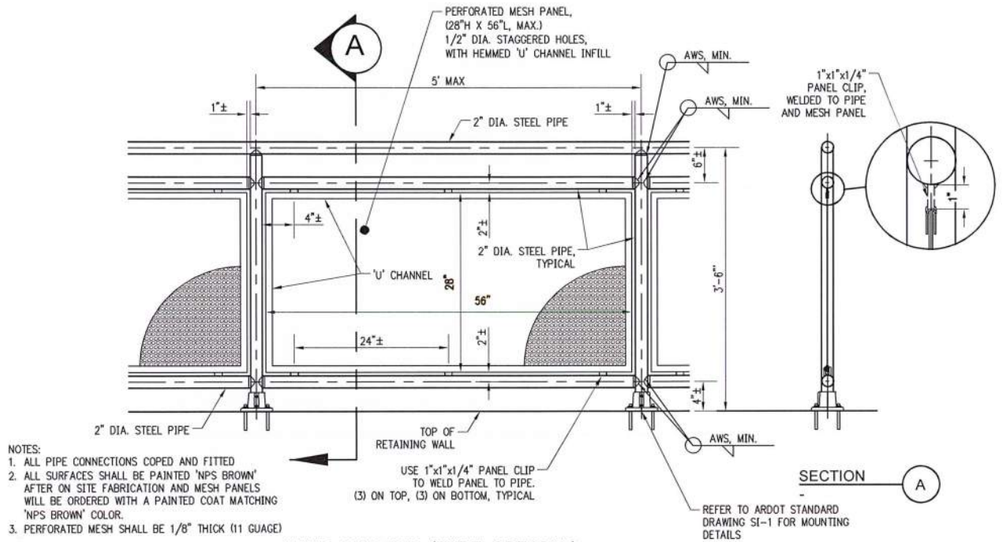
DRAWING: G:\151019\0_PEMIDGE\HIGHWAY\STRUCTURE\CONLDWG\CONSTRUCTION DETAILS.DWG
LAYOUT: 11 (JET SAVED: 6/30/09, 7/3/2020 3:33:33 PM
USER: TROYD.BROWN PLOTTED BY: TROY BROWN PLOTTED ON: 7/3/2020 3:33:33 PM
USE FOR FIELD USE ONLY - VALID ON HARD COPY ONLY!

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	090384		12	151

(2) SPECIAL DETAILS

PERI 152541 DRAWING NO. 409/150019

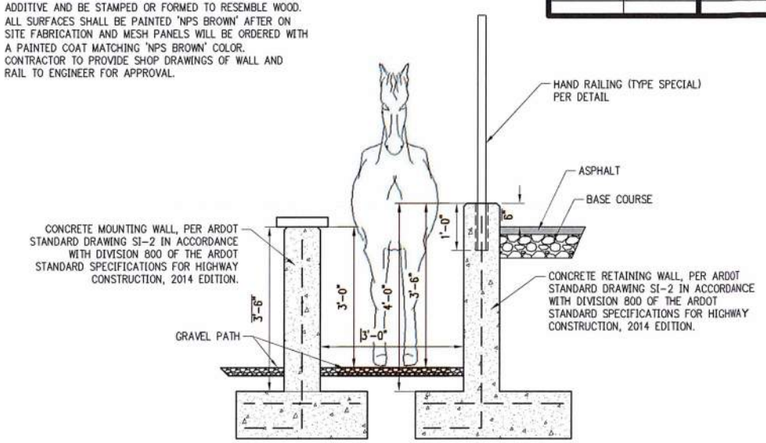
STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
TROY D. BROWN



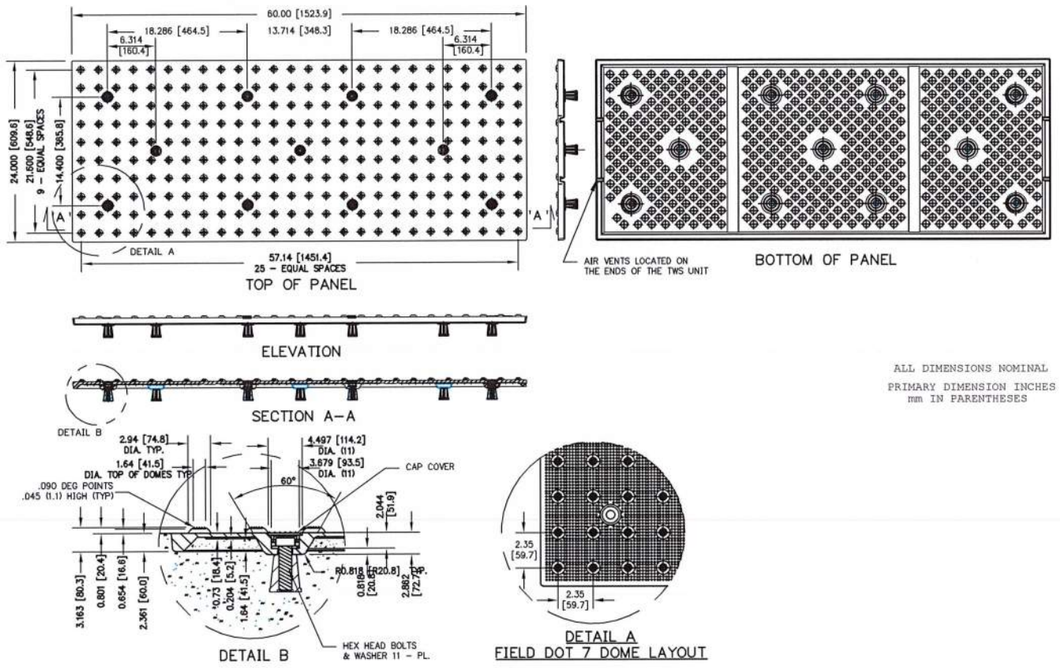
NOTES:
1. ALL PIPE CONNECTIONS COPED AND FITTED
2. ALL SURFACES SHALL BE PAINTED 'NPS BROWN' AFTER ON SITE FABRICATION AND MESH PANELS WILL BE ORDERED WITH A PAINTED COAT MATCHING 'NPS BROWN' COLOR.
3. PERFORATED MESH SHALL BE 1/8" THICK (11 GUAGE)

HAND RAILING (TYPE SPECIAL)
NTS — SITE 4 – HORSE TRAILER PARKING

NOTES:
1. CONCRETE RETAINING WALL AND WALL TO HAVE COLOR ADDITIVE AND BE STAMPED OR FORMED TO RESEMBLE WOOD.
2. ALL SURFACES SHALL BE PAINTED 'NPS BROWN' AFTER ON SITE FABRICATION AND MESH PANELS WILL BE ORDERED WITH A PAINTED COAT MATCHING 'NPS BROWN' COLOR.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF WALL AND RAIL TO ENGINEER FOR APPROVAL.



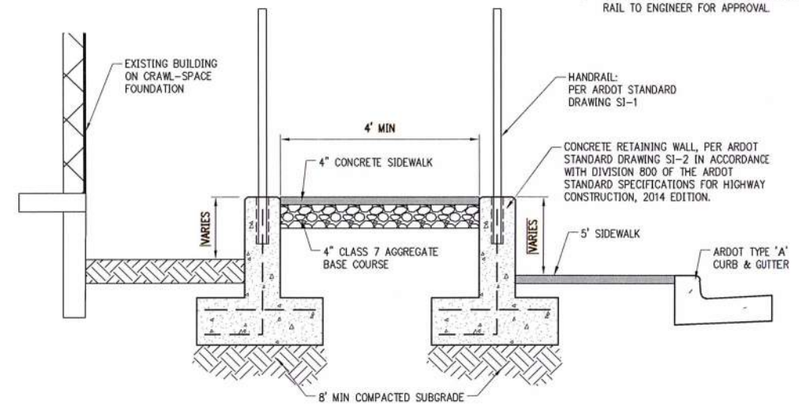
HORSE PATH AT MOUNTING BLOCK
NTS — SITE 4 – HORSE TRAILER PARKING

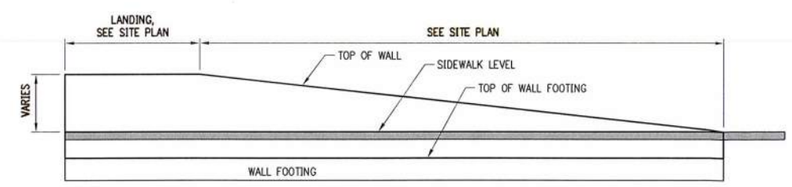


ALL DIMENSIONS NOMINAL
PRIMARY DIMENSION INCHES
mm IN PARENTHESES

DETECTABLE WARNING DEVICE – (CAST IRON)
NTS

NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF WALL AND RAIL TO ENGINEER FOR APPROVAL.





PLAN AND ELEVATION FOR WHEELCHAIR ACCESS TO VISITOR CENTER HEADQUARTERS
NTS — TYPICAL BOTH HOUSES

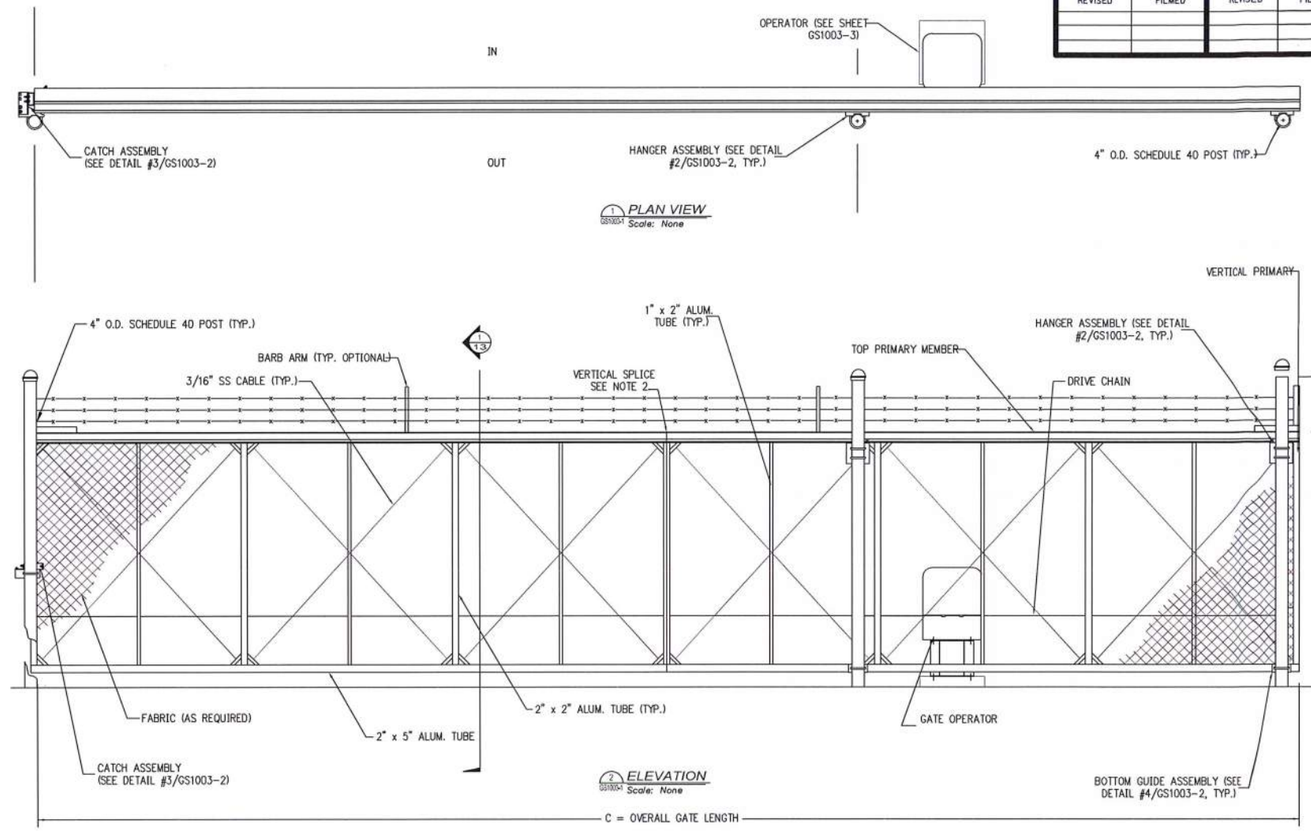
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

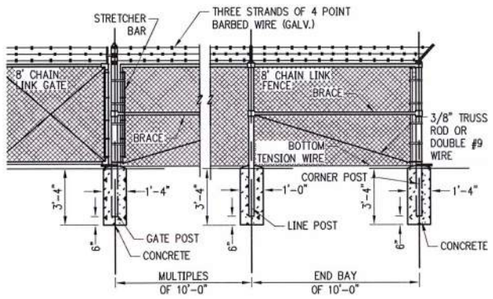
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	13	151

2 SPECIAL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
TROY D. BROWN





CHAIN LINK FENCING

N.T.S.

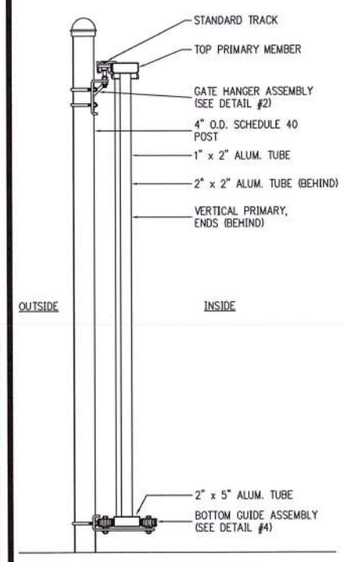
NOTES:
1. ALL FITTINGS PROVIDED FOR 4" O.D. SCHEDULE 40 POSTS. OTHER SIZES ARE AVAILABLE UPON REQUEST.
2. GATE ELEVATION IS VIEWED FROM THE OUTSIDE OF THE SECURE AREA LOOKING IN.

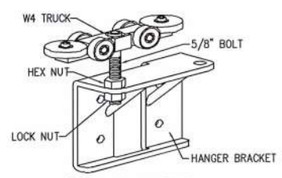
SEE PLAN SHEET FOR ORIENTATION OF SLIDE GATE OPERATOR

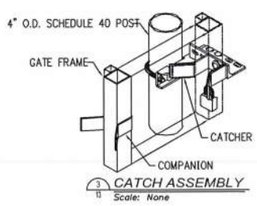
CRITICAL DIMENSION CHART

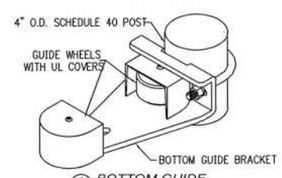
NOMINAL GATE SIZE	A	CLEAR OPENING	20'	D	NOMINAL GATE HEIGHT	8'
	B	POST SPACING C/C		E	POST HEIGHT	
	C	OVERALL GATE LENGTH				

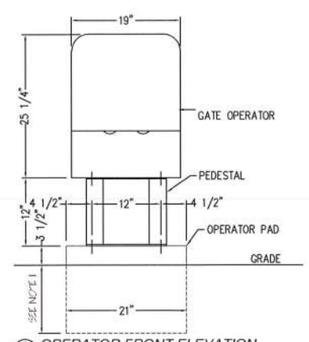
TYMETAL – FORTRESS TYM-1000 HD SYSTEM

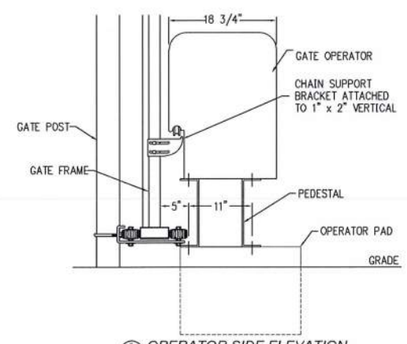




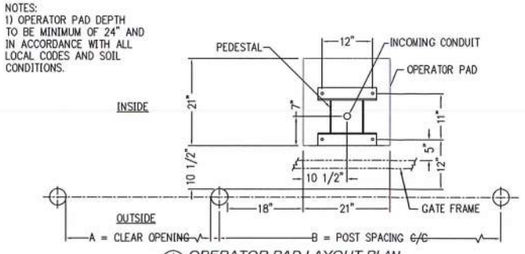








NOTES:
1) OPERATOR PAD DEPTH TO BE MINIMUM OF 24" AND IN ACCORDANCE WITH ALL LOCAL CODES AND SOIL CONDITIONS.



CANTILEVER CHAIN LINK GATE ASSEMBLY WITH BARBED WIRE

N.T.S.

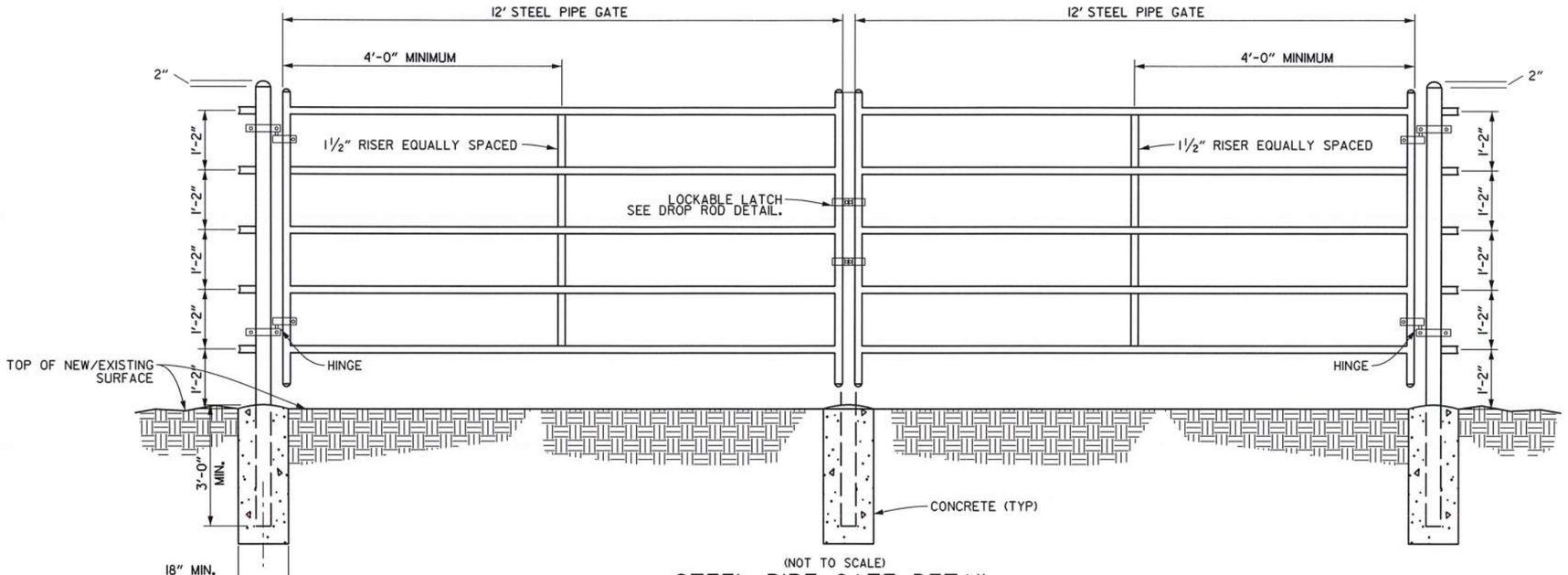
SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	14	151

② SPECIAL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURKS 09-09-2020



(NOT TO SCALE)

STEEL PIPE GATE DETAIL
DOUBLE SWING GATE (2-12' GATES)

1) POSTS SHALL BE 4" SCHEDULE 40 HOT-DIPPED GALVANIZED STEEL PIPE

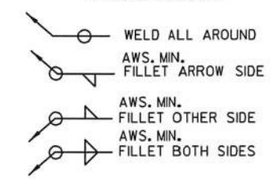
2) RAILS AND RISERS SHALL BE 2½" SCHEDULE 40 HOT-DIPPED GALVANIZED STEEL PIPE

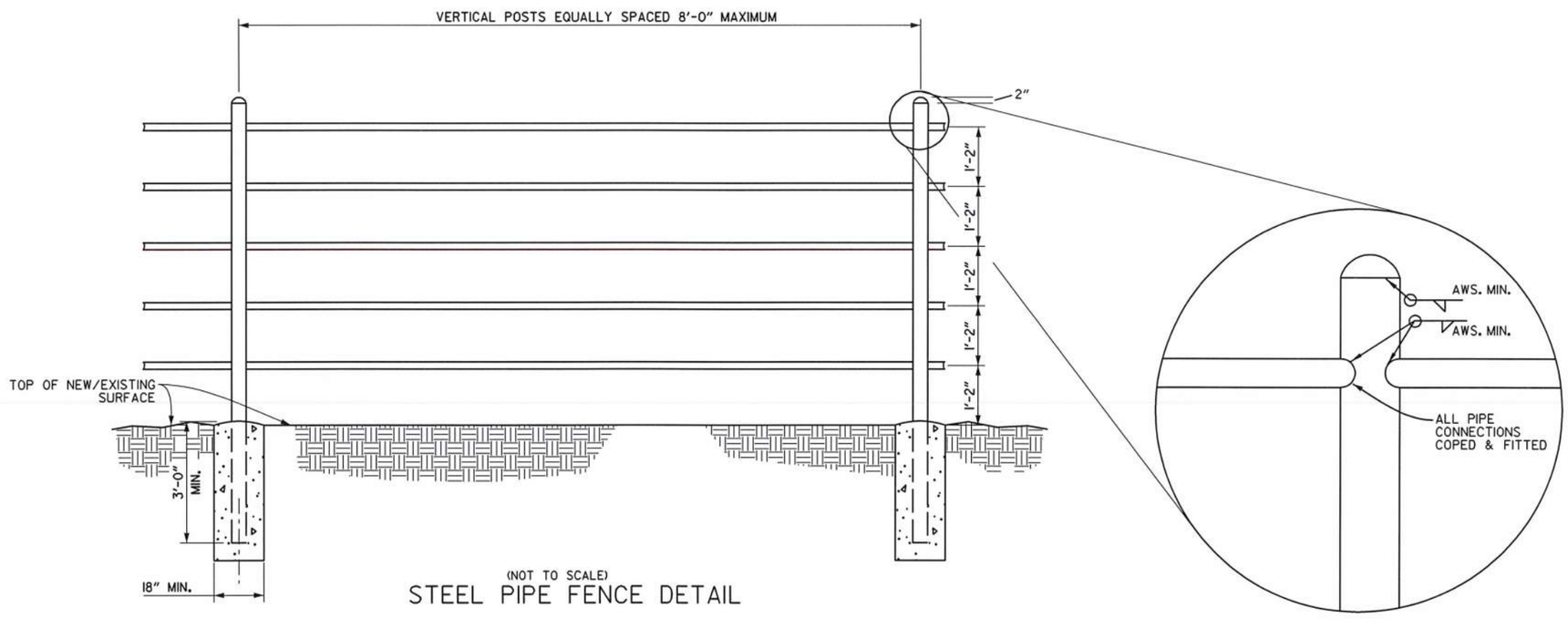
3) ALL MATERIALS AND WORK TO COMPLETE INSTALLATION OF PIPE FENCE SHALL BE CONSIDERED PAID FOR UNDER "STEEL PIPE FENCING" PER LIN. FT.

4) ALL MATERIALS INCLUDING CONNECTION HARDWARE TO COMPLETE THE INSTALLATION OF PIPE GATES SHALL BE PAID FOR UNDER "STEEL PIPE GATES" PER EACH.

5) ALL MATERIALS, WELDING AND GALVANIZING SHALL CONFORM TO SECTION 633 OF THE STANDARD SPECIFICATIONS.

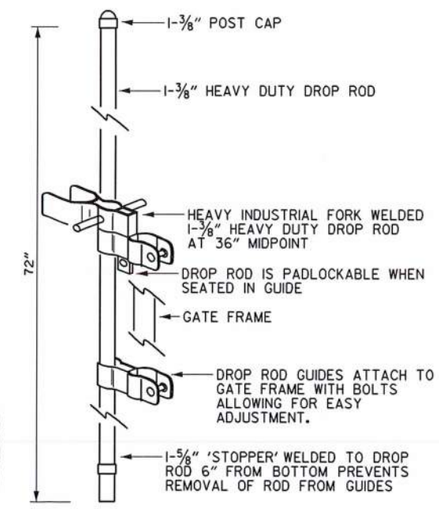
SYMBOL SCHEDULE





(NOT TO SCALE)

STEEL PIPE FENCE DETAIL



DROP ROD DETAIL

SPECIAL DETAILS

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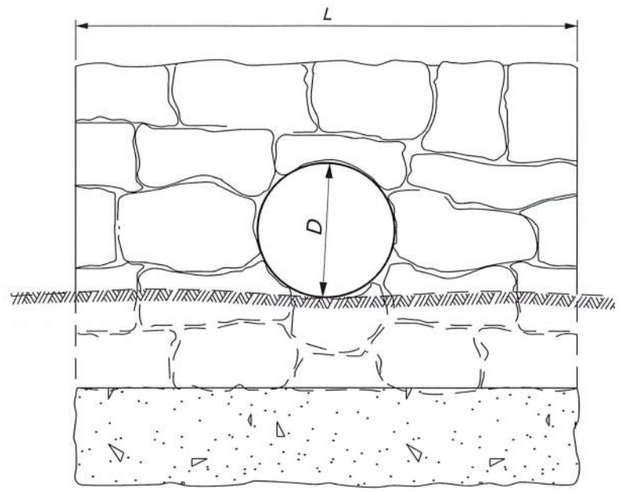
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	15	151

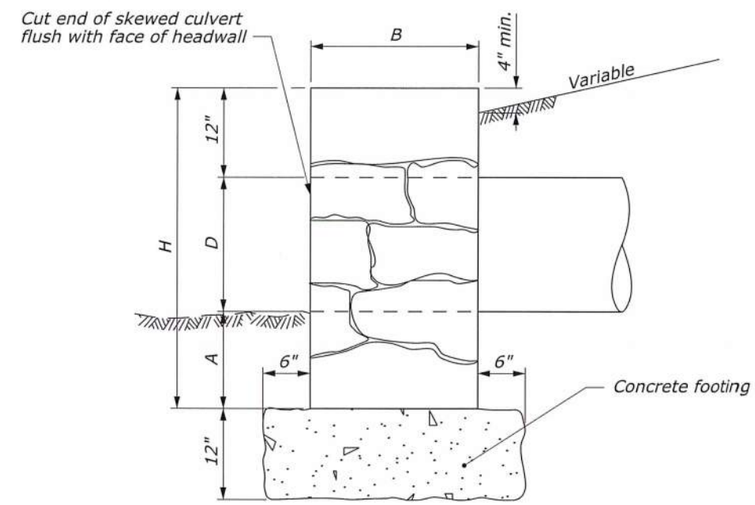
2 SPECIAL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020

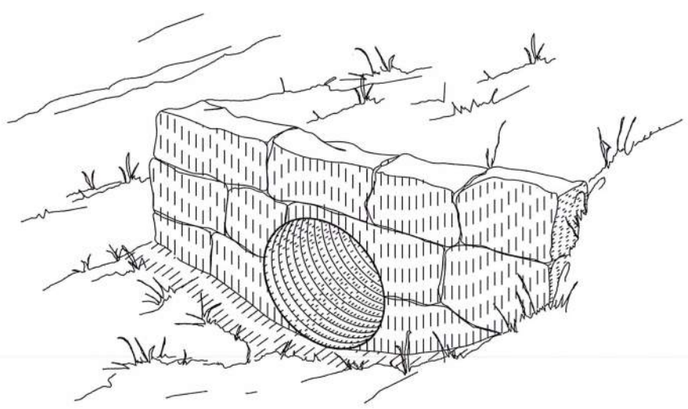


FRONT ELEVATION



SIDE ELEVATION

ROUND PIPE



ISOMETRIC

ROUND PIPE					
				SINGLE PIPE	
D (in)	A (in)	B (in)	H (in)	L (in)	STONE (cy)
12	12	14	36	44	0.37
15	12	16	40	52	0.61
18	12	18	42	60	0.72
24	16	22	52	76	1.41
30	20	26	62	94	2.52
36	24	30	72	108	4.35
48	24	36	84	144	7.93

NOTE:

1. Construct headwalls parallel to the lane and grade of the roadway, unless shown otherwise on the plans.
2. Modify headwall when pipes are skewed, as directed by the Engineer.
3. For existing headwalls being reset, reset headwall to original dimensions, except at locations where new culvert is of a different diameter than original culvert.
4. Rock to be cut and grouted.

NO SCALE

HEADWALL DETAIL

SPECIAL DETAILS

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\special_details\r090384_Rock Headwall.dgn
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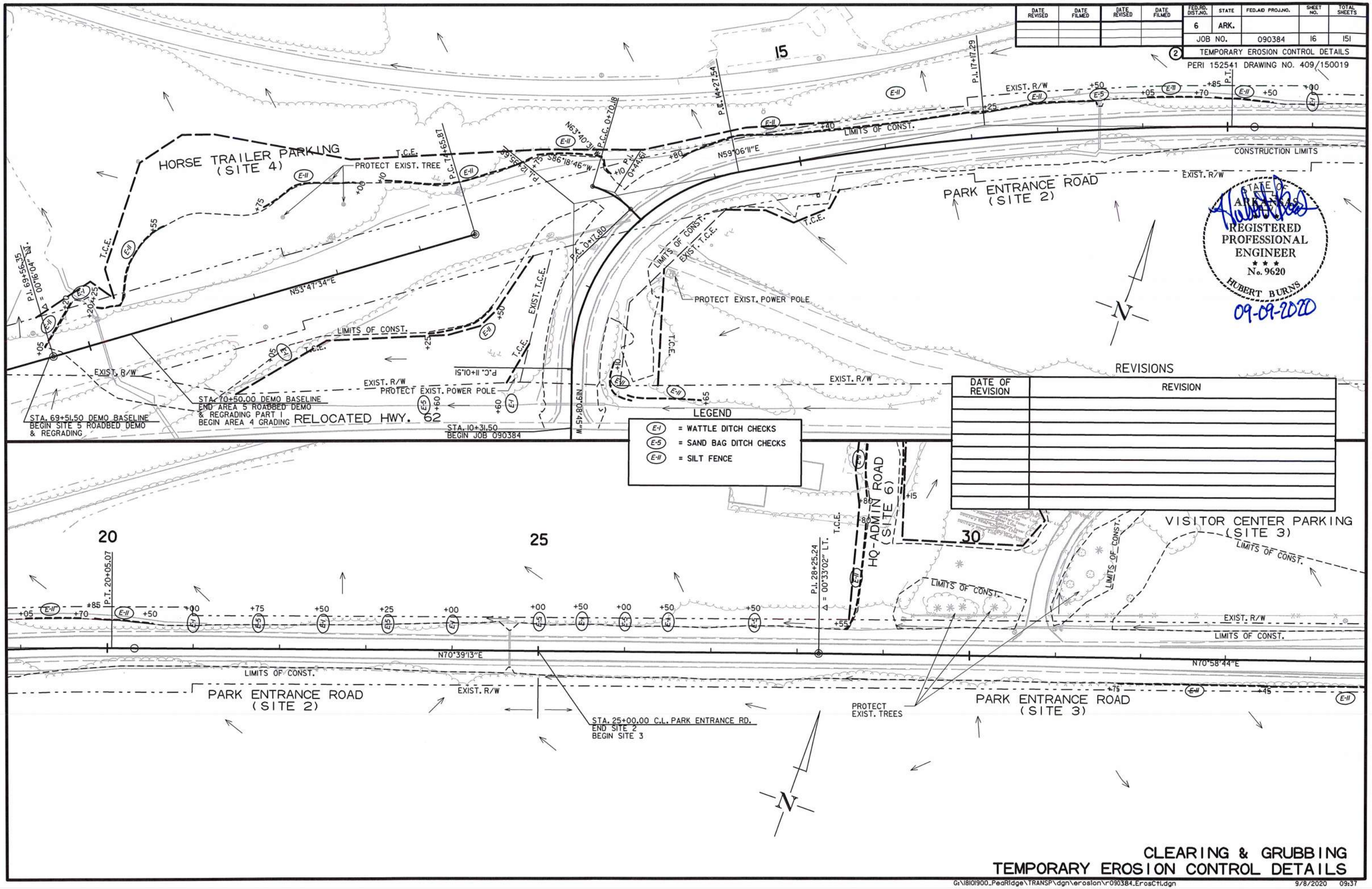
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	16	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019



REVISIONS

DATE OF REVISION	REVISION

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

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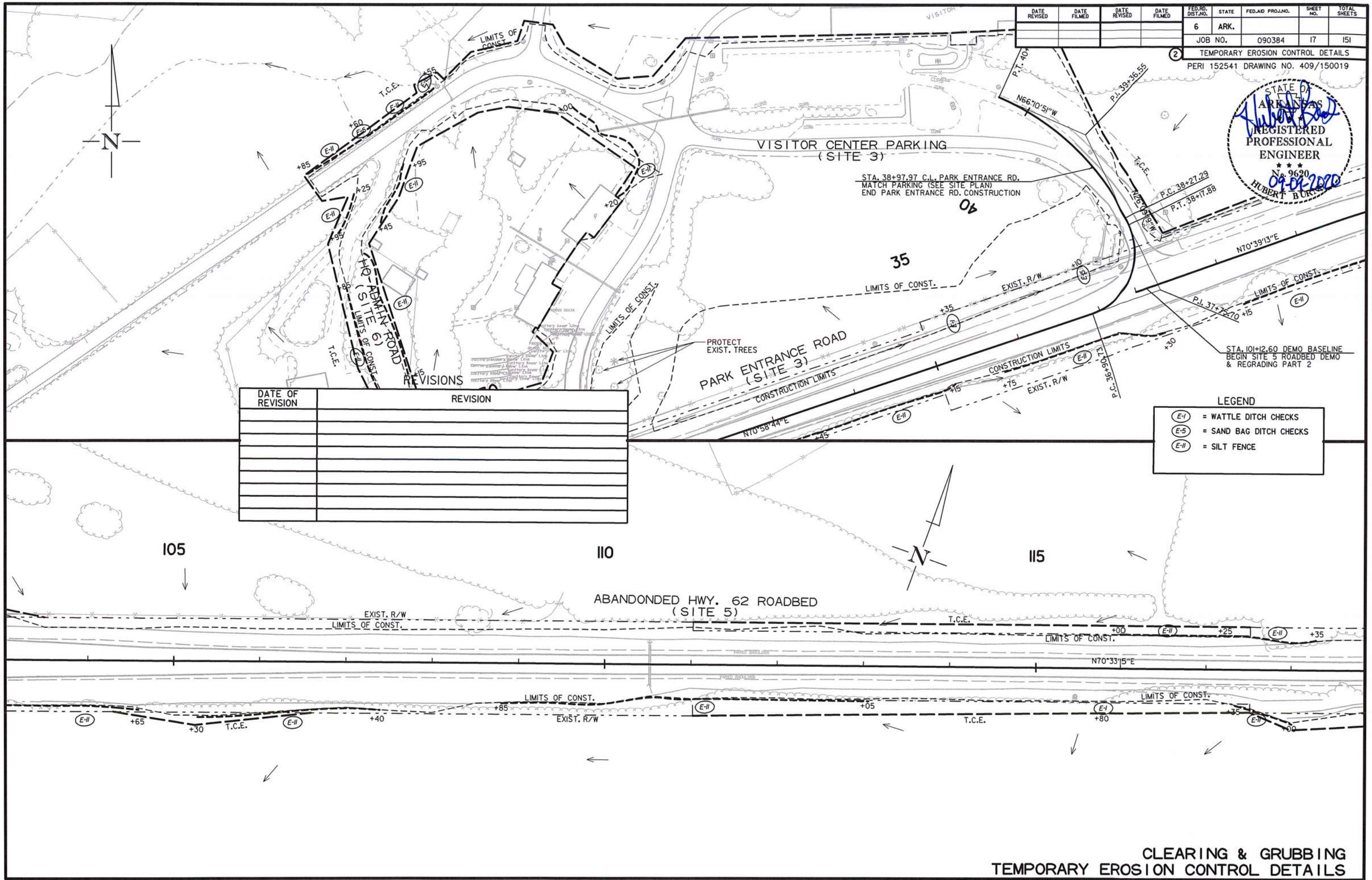
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	17	151

2 TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURKS 09-09-2020



DATE OF REVISION	REVISION

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

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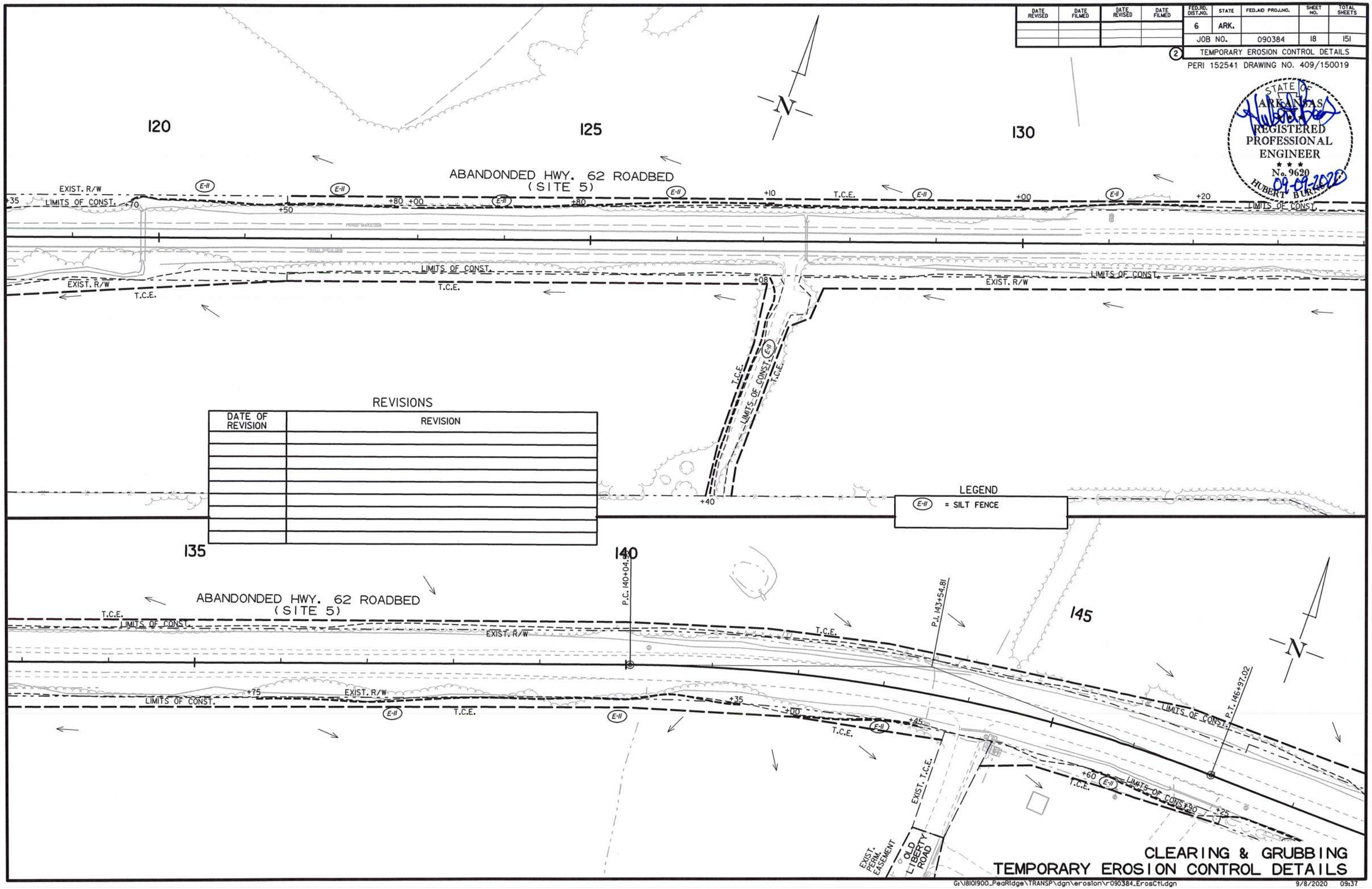
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	18	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURGESS 09-09-2020



REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-II = SILT FENCE

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\erosion\r090384_ErosCtl.dgn
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

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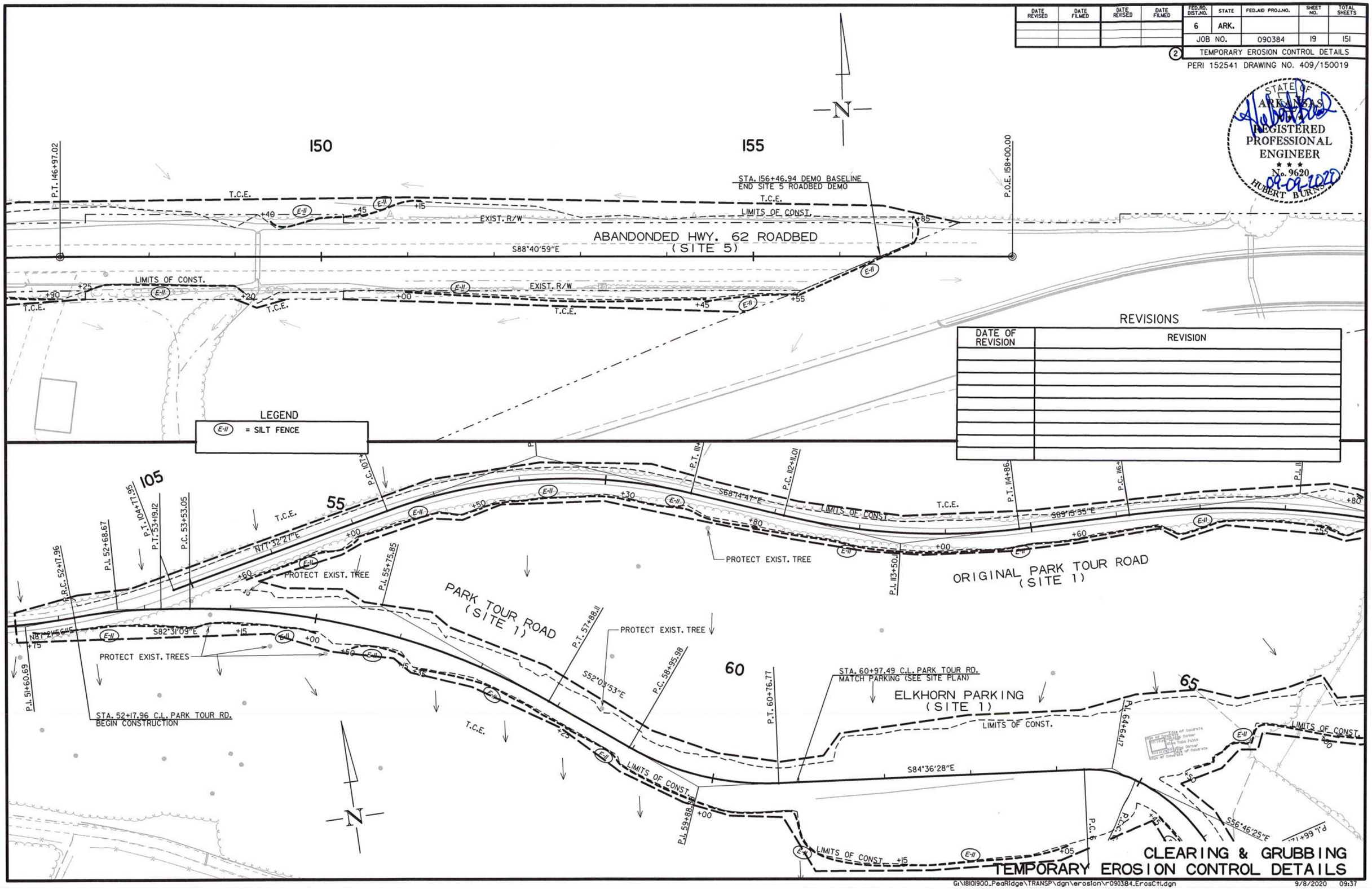
JOB NO.		090384	19	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020



REVISIONS

DATE OF REVISION	REVISION

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

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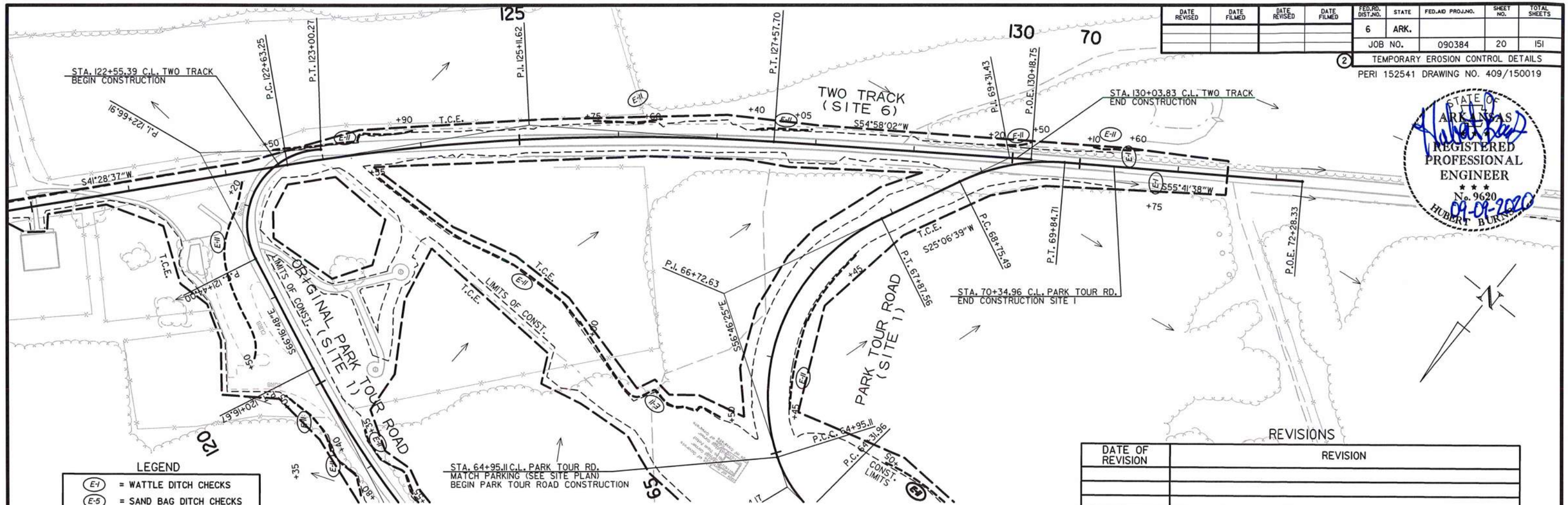
JOB NO.		090384	20	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURKS
09-09-2020

LEGEND

- (E-1) = WATTLE DITCH CHECKS
- (E-5) = SAND BAG DITCH CHECKS
- (E-11) = SILT FENCE

REVISIONS

DATE OF REVISION	REVISION

CLEARING & GRUBBING
TEMPORARY EROSION CONTROL DETAILS

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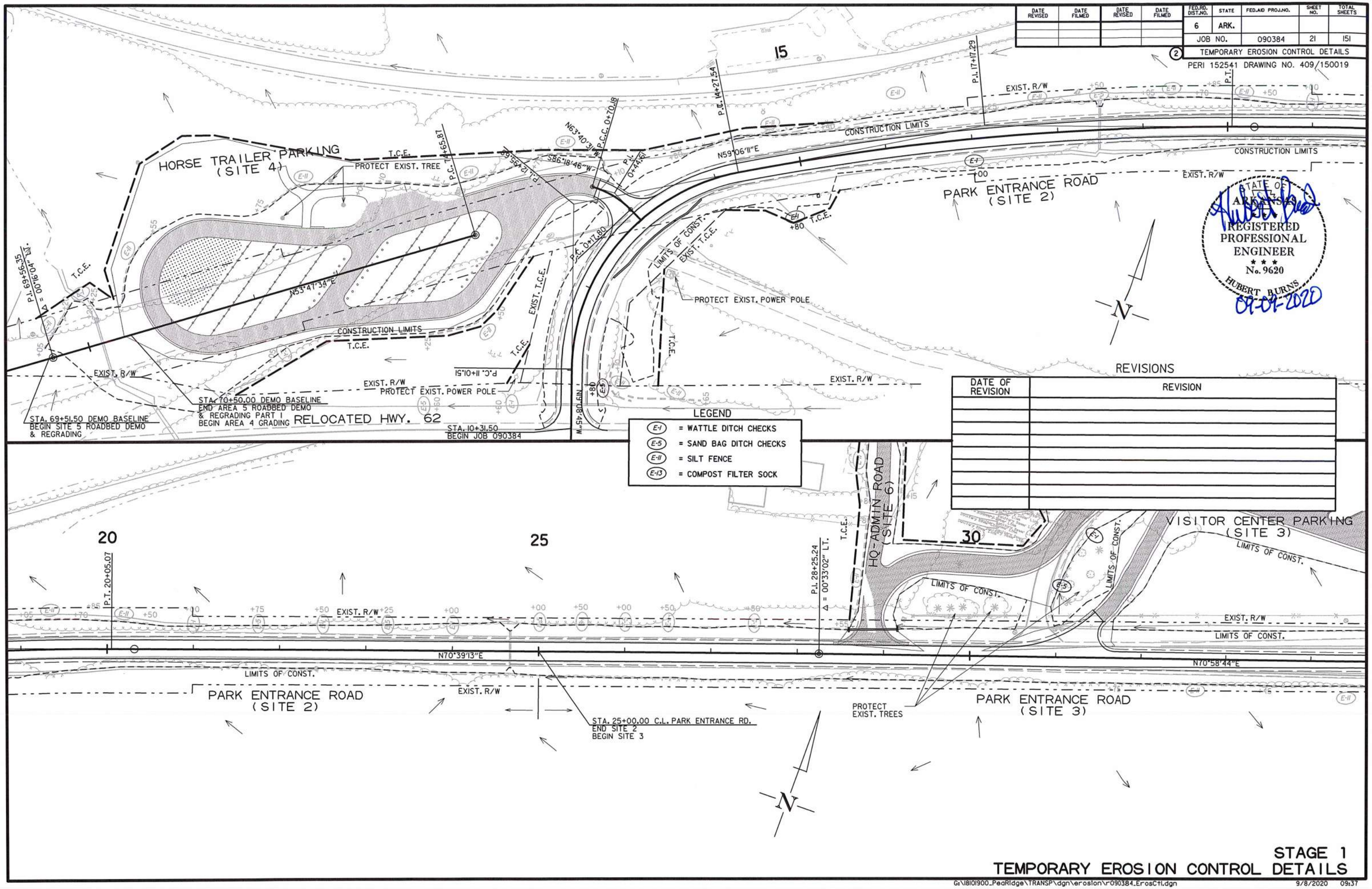
JOB NO.		090384	21	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019



LEGEND

- (E-1) = WATTLE DITCH CHECKS
- (E-5) = SAND BAG DITCH CHECKS
- (E-11) = SILT FENCE
- (E-13) = COMPOST FILTER SOCK

REVISIONS

DATE OF REVISION	REVISION

STAGE 1
TEMPORARY EROSION CONTROL DETAILS

USER: fs513
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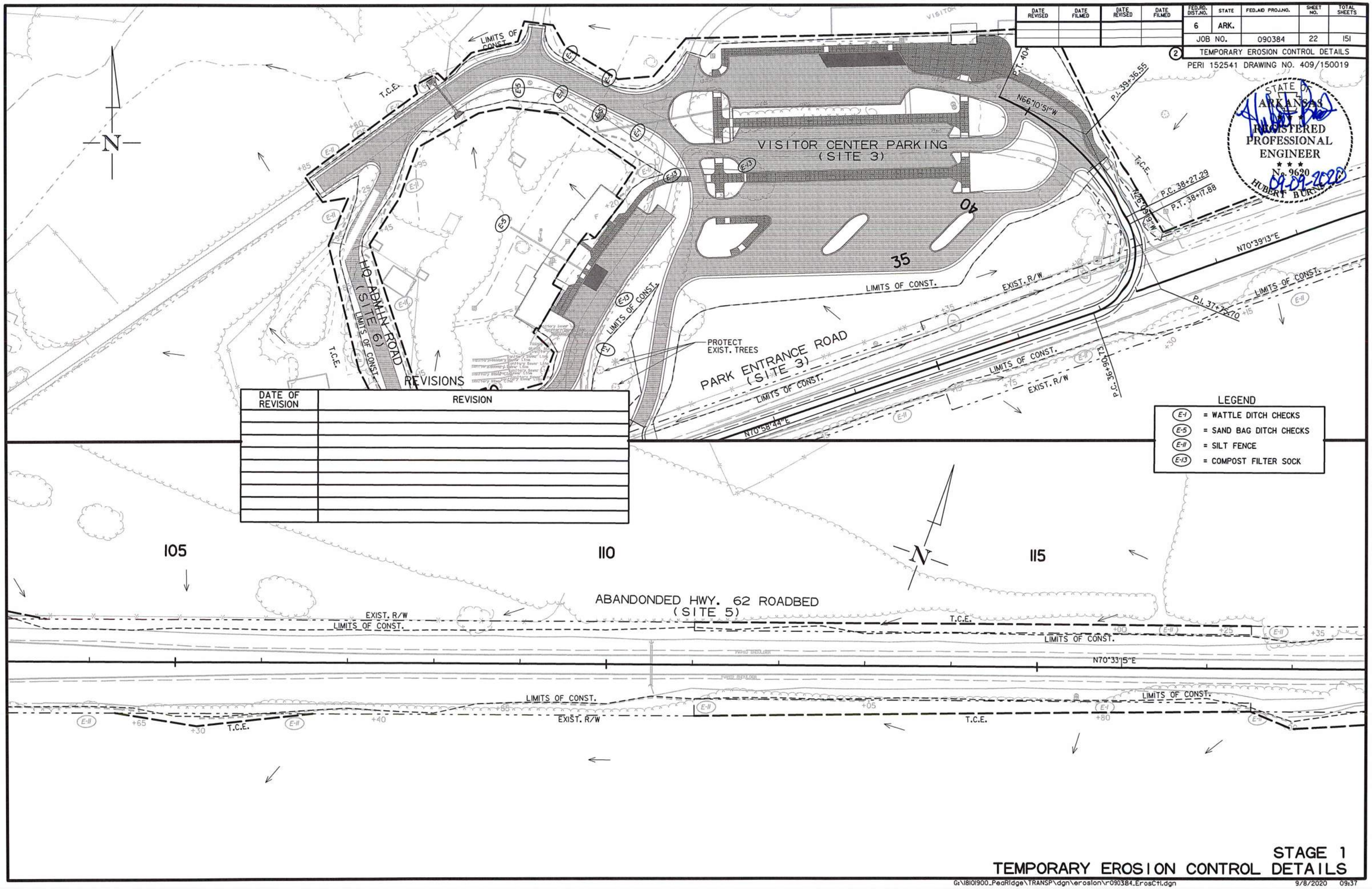
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	22	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURGESS
09-09-2020



DATE OF REVISION	REVISION

REVISIONS

LEGEND

- (E-1) = WATTLE DITCH CHECKS
- (E-5) = SAND BAG DITCH CHECKS
- (E-11) = SILT FENCE
- (E-13) = COMPOST FILTER SOCK

STAGE 1
TEMPORARY EROSION CONTROL DETAILS

USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\erosion\r090384_ErosCtl.dgn
PLOTTED: 9/8/2020 09:37
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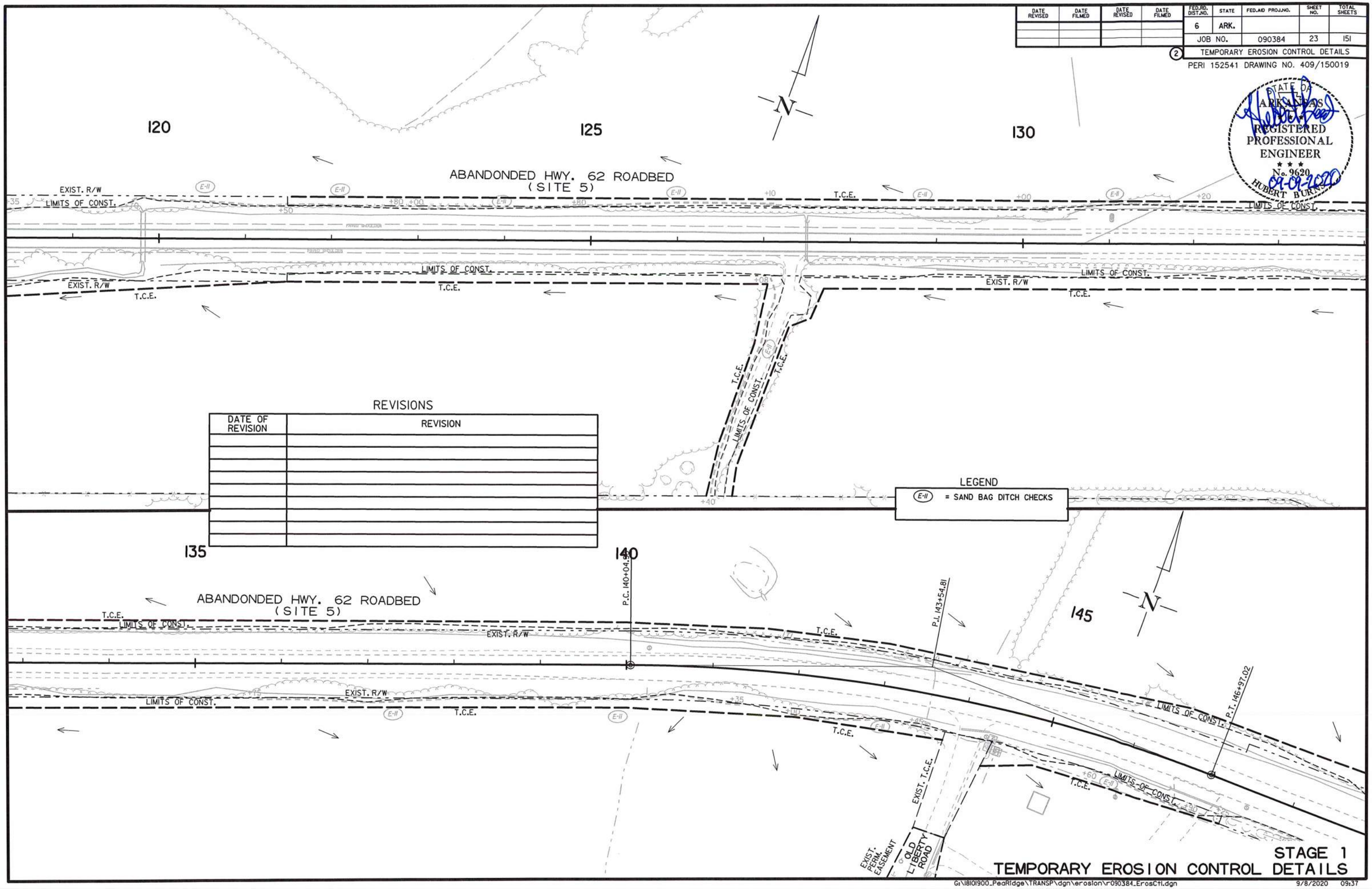
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	23	151

2 TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020



REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-11 = SAND BAG DITCH CHECKS

STAGE 1

TEMPORARY EROSION CONTROL DETAILS

USER: fe513
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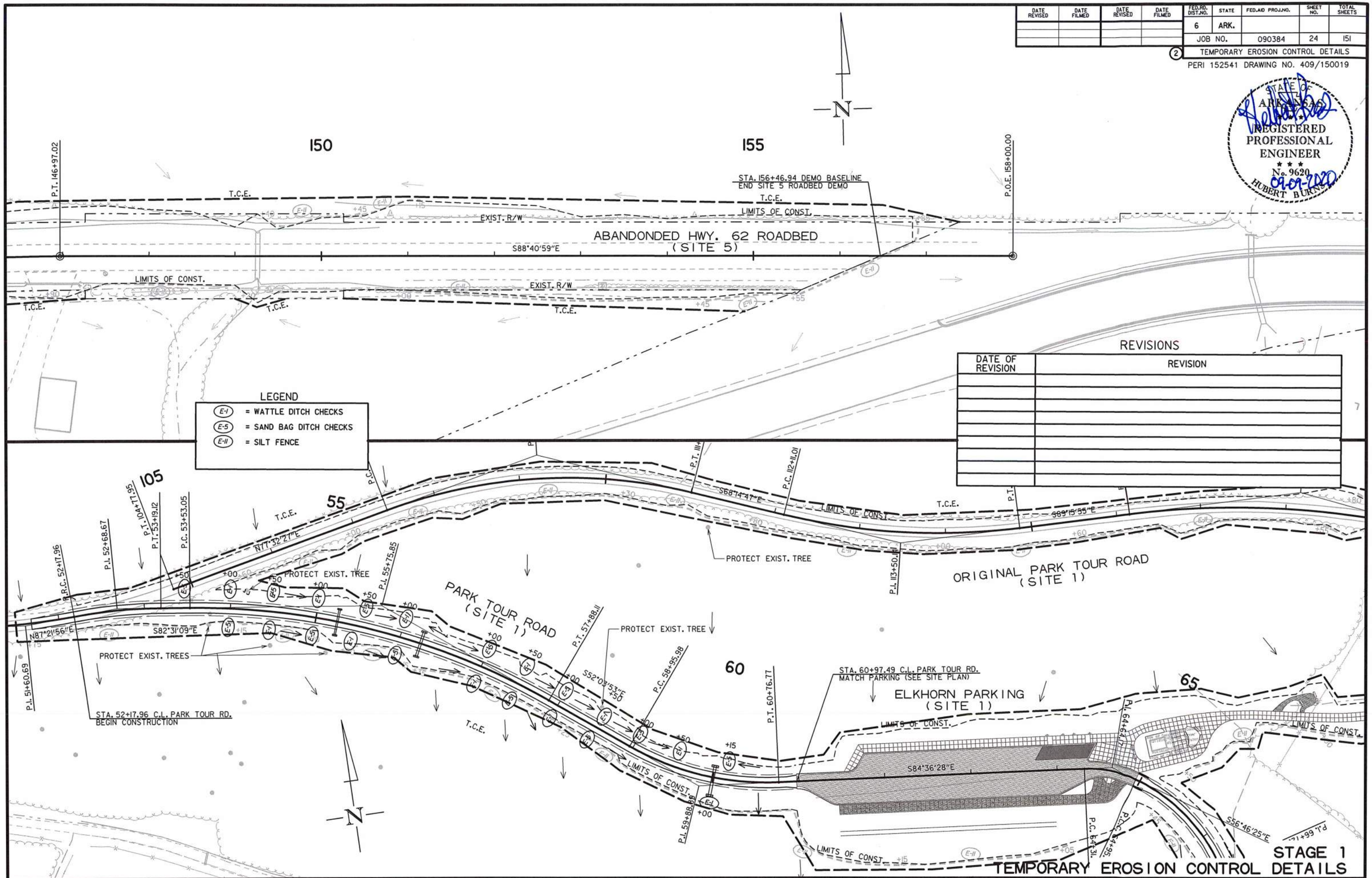
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	24	151

(2) TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020



REVISIONS

DATE OF REVISION	REVISION

STAGE 1
TEMPORARY EROSION CONTROL DETAILS

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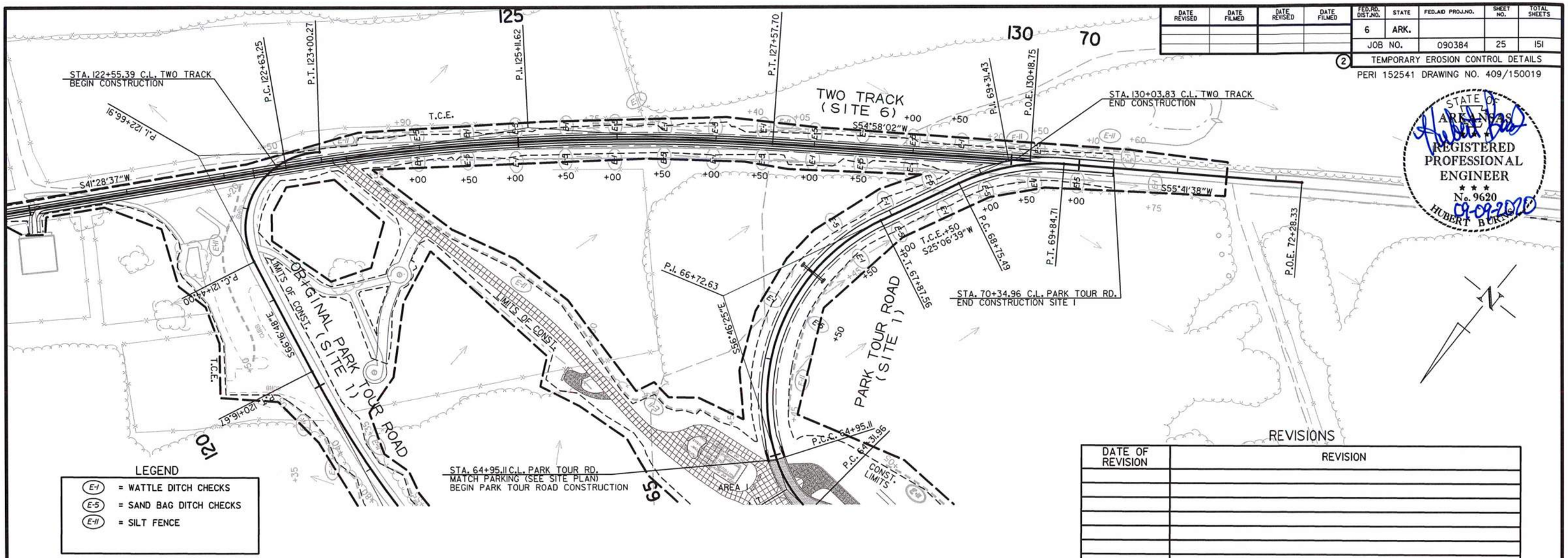
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	25	151

2 TEMPORARY EROSION CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURKS 09-09-2020



LEGEND

- (E-1) = WATTLE DITCH CHECKS
- (E-5) = SAND BAG DITCH CHECKS
- (E-11) = SILT FENCE

REVISIONS

DATE OF REVISION	REVISION

STAGE 1
TEMPORARY EROSION CONTROL DETAILS

G:\18101900_PeaRidge\TRANSP\dgn\erosion\r090384_ErosCtl.dgn 9/8/2020 09:37

USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\erosion\r090384_ErosCtl.dgn
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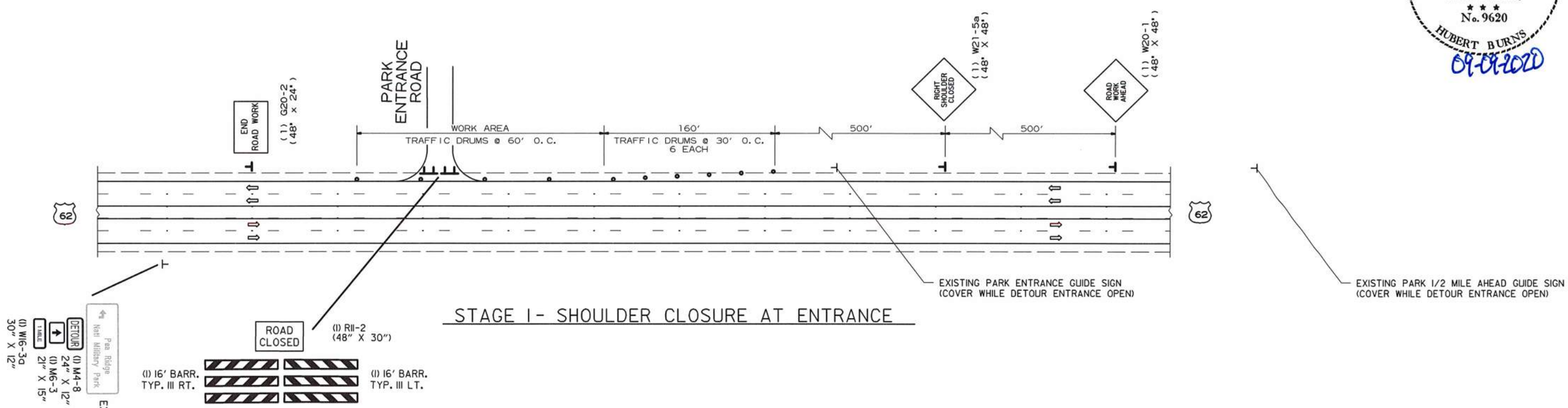
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	26	151

(2) MAINTENANCE OF TRAFFIC DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020



STAGE 1- SHOULDER CLOSURE AT ENTRANCE

STAGE 1

1) INSTALL ADVANCE WARNING SIGNS.

2) USE LIBERTY ROAD/ORIGINAL HWY. 62 ROADBED FOR TEMPORARY TRAFFIC.

3) FURNISH & INSTALL P.C.C.B., BARRICADES, & DETOUR SIGNS.

4) ROUTE PARK ENTRANCE TRAFFIC ONTO LIBERTY ROAD/ORIGINAL HWY. 62 ROADBED.

5) RECONSTRUCT PARK ENTRANCE.

STAGE 2

1) MAINTAIN ADVANCE WARNING SIGNS.

2) OPEN NEW PARK ENTRANCE ROAD.

3) MAINTAIN TRAFFIC WHILE CONSTRUCTING PARK NEW PARKING, TOUR ROAD, TWO-TRACK.

4) ROUTE PARK TRAFFIC ONTO NEW TOUR ROAD/ELKHORN PARKING.

5) DEMO ORIGINAL HWY. 62 ROADBED & ORIGINAL TOUR ROAD.

STAGE 1
PARK ENTRANCE ROAD CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\maint_of_traffic\r090384 MOT.dgn
PLOTTED: 9/8/2020 09:37 SCALE: 1:100

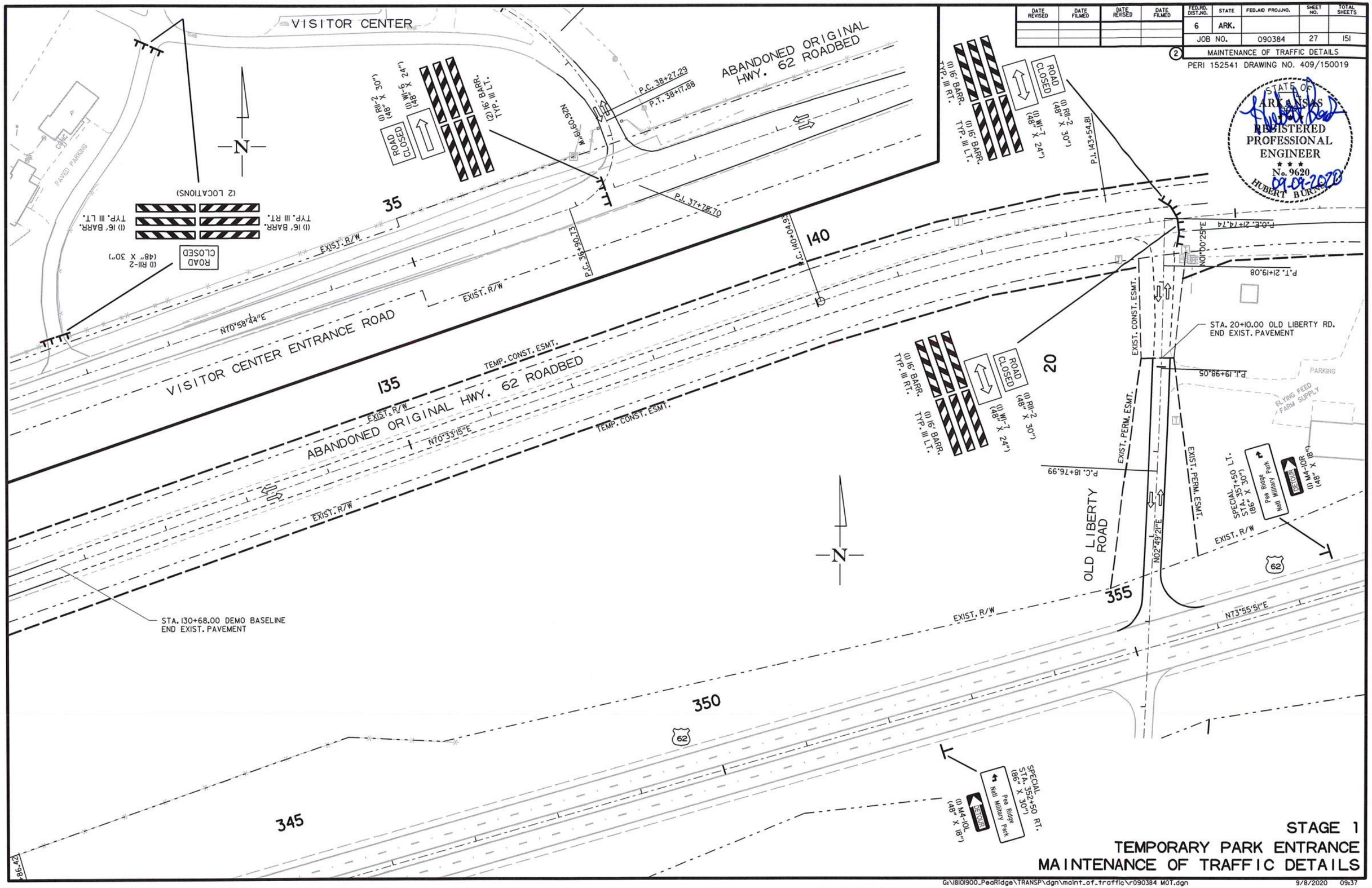
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	27	151

2 MAINTENANCE OF TRAFFIC DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURKS 09-09-2020



STAGE 1
TEMPORARY PARK ENTRANCE
MAINTENANCE OF TRAFFIC DETAILS

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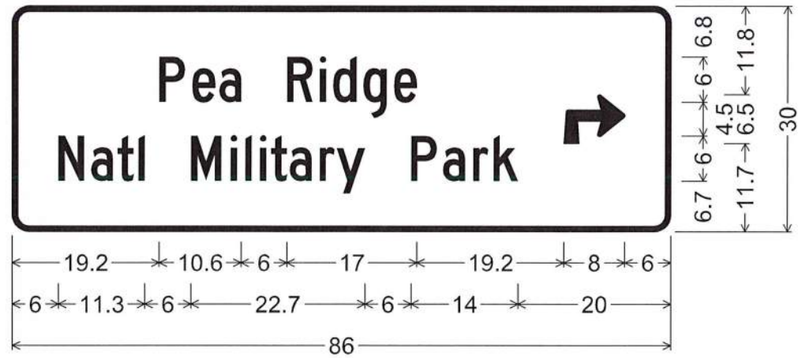
SCALE: 1:100

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	28	151

(2) MAINTENANCE OF TRAFFIC DETAILS

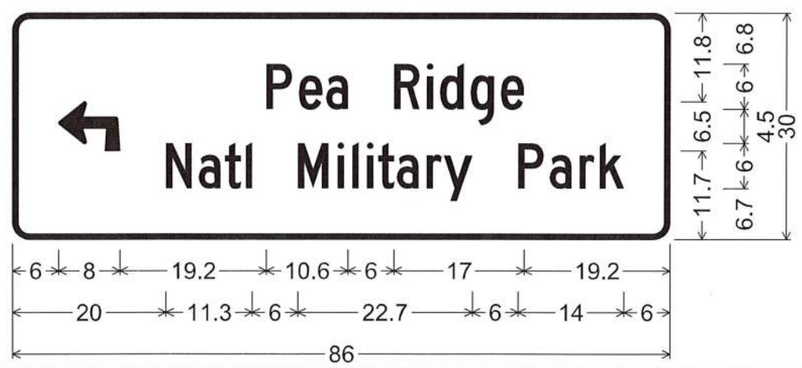
PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020



SSR3-STA956+07SB-LT;
2.3" Radius, 0.8" Border, White on, Brown;
"Pea Ridge", C 2K; "Natl Military Park", C 2K;
90 Deg Advance Turn Arrow 8.0" X 6.5";

HWY. 62 STA. 357+50 LT



SSR3-STA956+07SB-LT;
2.3" Radius, 0.8" Border, White on, Brown;
90 Deg Advance Turn Arrow 8.0" X 6.5";
"Pea Ridge", C 2K; "Natl Military Park", C 2K;

HWY. 62 STA. 352+50 RT

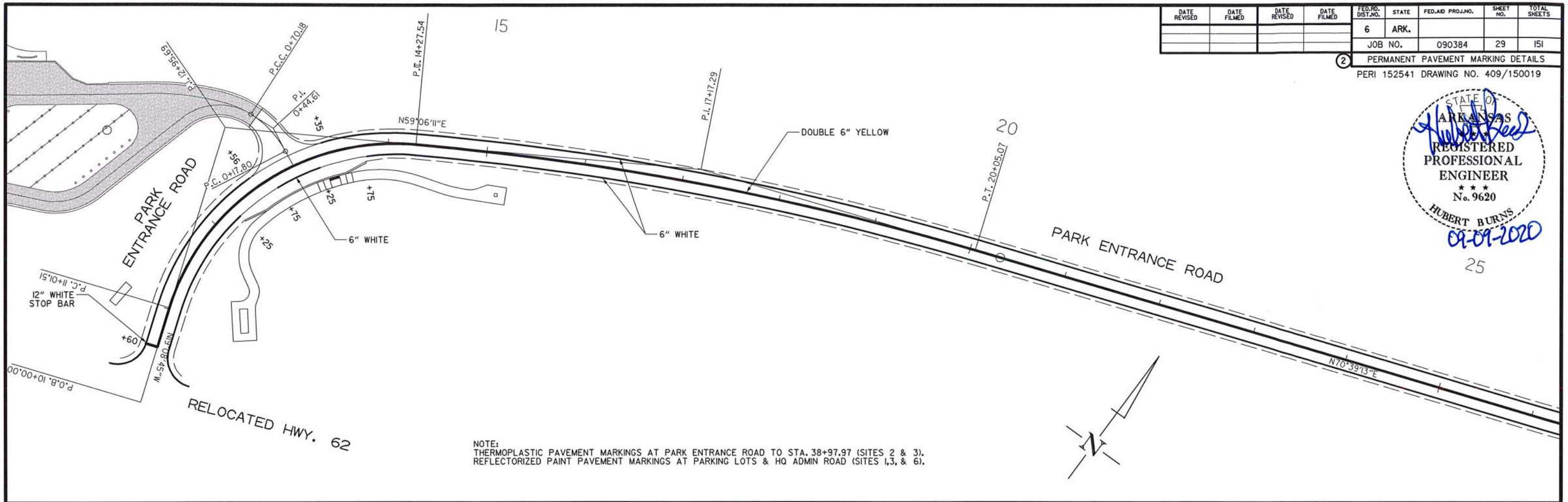
SIGNAGE DETAILS
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	29	151

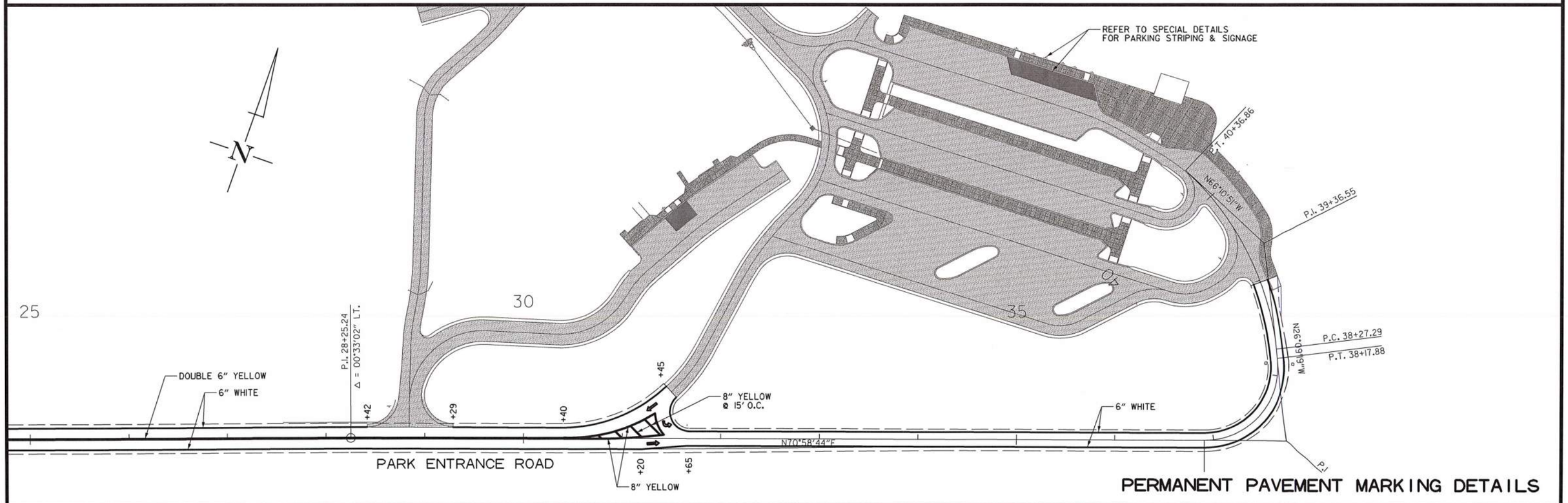
2 PERMANENT PAVEMENT MARKING DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020



NOTE:
THERMOPLASTIC PAVEMENT MARKINGS AT PARK ENTRANCE ROAD TO STA. 38+97.97 (SITES 2 & 3).
REFLECTORIZED PAINT PAVEMENT MARKINGS AT PARKING LOTS & HQ ADMIN ROAD (SITES 1,3, & 6).



PERMANENT PAVEMENT MARKING DETAILS

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

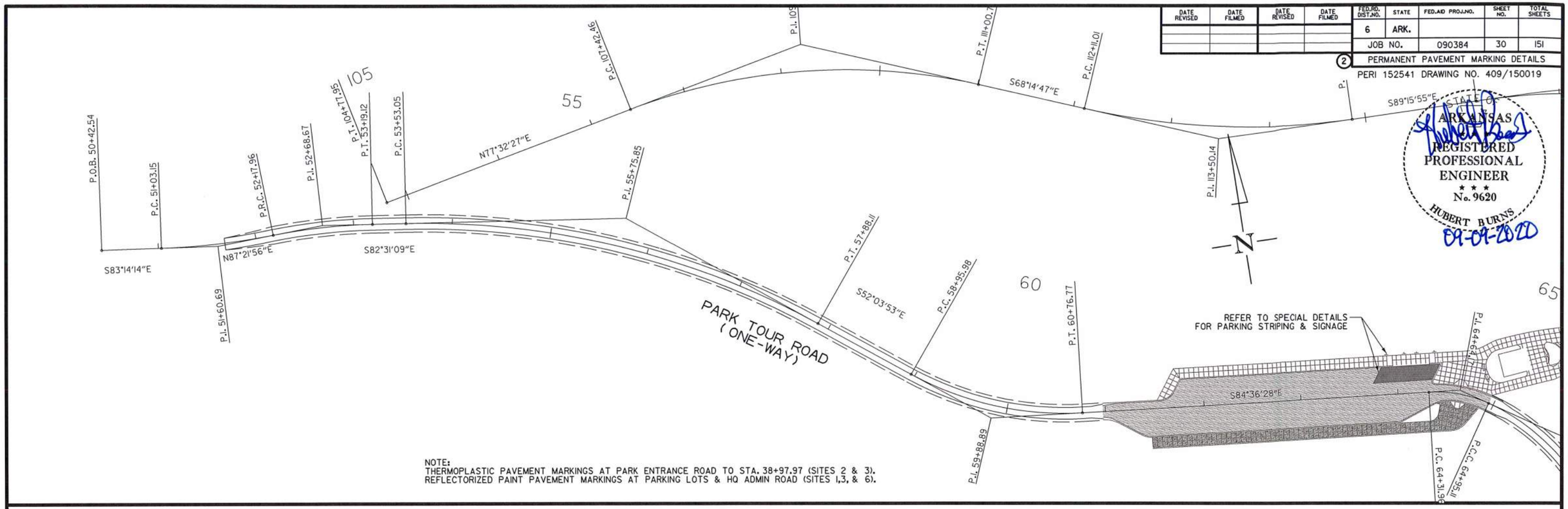
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	30	151

(2) PERMANENT PAVEMENT MARKING DETAILS

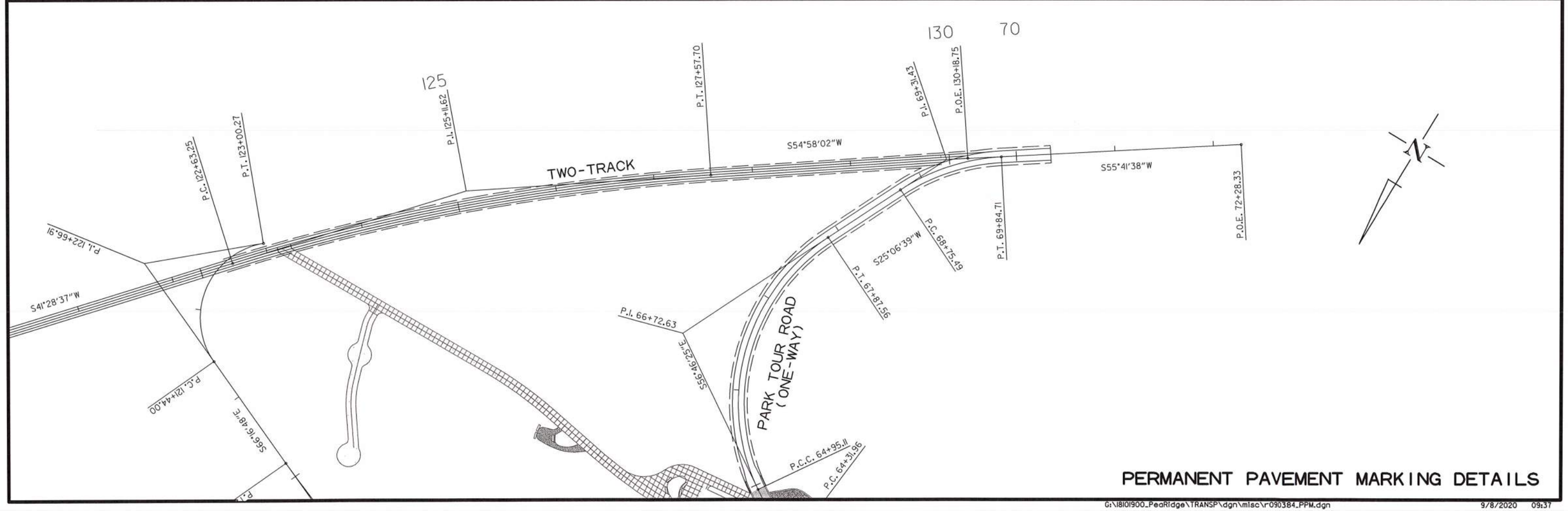
PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020



NOTE:
THERMOPLASTIC PAVEMENT MARKINGS AT PARK ENTRANCE ROAD TO STA. 38+97.97 (SITES 2 & 3).
REFLECTORIZED PAINT PAVEMENT MARKINGS AT PARKING LOTS & HQ ADMIN ROAD (SITES 1,3, & 6).



PERMANENT PAVEMENT MARKING DETAILS

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	31	151

(2) QUANTITIES

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	BARRICADES (TYPE III)	
								RIGHT	LEFT
			LIN. FT. - EACH		NO.	SQ. FT.	EACH	LIN. FT.	
M4-8	DETOUR	24"x12"	1	1	1	2.0			
M4-10L	DETOUR - ARROW LEFT	48"x18"	1	1	1	6.0			
M4-10R	DETOUR - ARROW RIGHT	48"x18"	1	1	1	6.0			
M6-3	ARROW - AHEAD	21"x15"	1	1	1	2.2			
W20-1	ROAD WORK AHEAD	48"x48"	1	1	1	16.0			
G20-2	END ROAD WORK	48"x24"	1	1	1	8.0			
R11-2	ROAD CLOSED	48"x30"	6	6	6	60.0			
W1-6	LARGE ARROW	48"x24"	1	1	1	8.0			
W1-7	LARGE ARROW	48"x24"	2	2	2	16.0			
W21-5a	RIGHT SHOULDER CLOSED	36"x36"	1	1	1	9.0			
W16-3a	DISTANCE PLAQUE - 1 MILE	30"x12"	1	1	1	2.5			
SPECIAL	PEA RIDGE NATL MILITARY PARK - RIGHT	86"x30"			1	18.0			
SPECIAL	PEA RIDGE NATL MILITARY PARK - LEFT	86"x30"			1	18.0			
	TRAFFIC DRUMS		25	25			25		
	TYPE III BARRICADE-RT. (16')		5	5				80	
	TYPE III BARRICADE-LT. (16')		7	7					112
TOTALS:						171.7	25	80	112

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

CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	SITE 1	SITE 2	SITE 3	SITE 4	SITE 6	THERMOPLASTIC PAVEMENT MARKING				REFLECTORIZED PAINT PAVEMENT MARKING							CAR BAY MARKING DOTS
						6"		8"	12"	6"		12"	4"	4"	ARROWS	SYMBOLS (WHEELCHAIR)	
						WHITE	YELLOW	YELLOW	WHITE	WHITE	YELLOW	WHITE	WHITE	BLUE			
	LIN. FT. - EACH					LIN. FT.				LIN. FT.					EACH	EACH	EACH
THERMOPLASTIC PAVEMENT MARKING WHITE (6")		2796	2745			5541											
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")		2880	1082				3962										
THERMOPLASTIC PAVEMENT MARKING YELLOW (8")			280					280									
THERMOPLASTIC PAVEMENT MARKING WHITE (12")		12							12								
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (4")	420		2448		240								3108				
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")			100							100							
REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")			1285		500						1785						
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")	75		326									401					
REFLECTORIZED PAINT PAVEMENT MARKING BLUE (4")	190		825		140									1155			
REFLECTORIZED PAINT PAVEMENT MARKING SYMBOLS (ARROWS)			19												19		
REFLECTORIZED PAINT PAVEMENT MARKING SYMBOLS (WHEELCHAIR)	4		7		1											12	
CAR BAY MARKING DOTS				110													110
TOTALS:						5541	3962	280	12	100	1785	401	3108	1155	19	12	110

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

THERMOPLASTIC PAVEMENT MARKINGS AT PARK ENTRANCE ROAD TO STA. 38+97.97 (SITES 2 & 3).
REFLECTORIZED PAINT PAVEMENT MARKINGS AT PARKING LOTS & HQ ADMIN ROAD (SITES 1,3, & 6).

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QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	32	151

(2) QUANTITIES

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-17-2020

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING	CLEARING	GRUBBING
			STATION		ACRES	
52+18	60+97	SITE 1 - ELKHORN TOUR RD	9	9		
64+95	70+35	SITE 1 - ELKHORN TOUR RD	6	6		
122+55	130+04	SITE 1 - ELKHORN TWO TRACK	8	8		
		SITE 1 - ELKHORN PARKING			2.00	2.00
10+32	25+00	SITE 2 - ENTRANCE ROAD	15	15		
25+00	38+98	SITE 3 - ENTRANCE ROAD	14	14		
		SITE 3 - VISITOR CENTER PARKING			1.10	1.10
		SITE 4 - HORSE TRAILER PARKING			2.10	2.10
69+52	156+47	SITE 5 - ABANDONDED HWY. 62 ROADBED	87	87		
		SITE 6 - HQ ADMIN ROAD			1.10	1.10
TOTALS:			139	139	6.30	6.30

CONCRETE WALKS & HAND RAILING

STATION	STATION	LOCATION	LENGTH	CONCRETE WALKS	COLORED CONCRETE WALKS	EXPOSED AGGREGATE	CONCRETE STEPS	HAND RAILING	HAND RAILING (TYPE SPECIAL)
			LIN. FT.	SQ.YD.	SQ.YD.	SQ.YD.	SQ.YD.	LIN. FT.	LIN. FT.
--		SITE 1 - ELKHORN TAVERN PARKING AREA	--	2102	60	5			
122+30	123+28	SITE 1 - ELKHORN TAVERN TWO-TRACK	98		54				
123+11	123+25	SITE 1 - ELKHORN TAVERN TWO-TRACK RT.	14			4			
10+87	15+25	SITE 2 - PARK ENTRANCE ROAD RT.	438	526					
--		SITE 3 - VISITORS CENTER PARKING	--	1912			1		
--		SITE 4 - HORSE TRAILER PARKING	--						70
--		SITE 6 - HQ ADMIN ROAD	--	213				125	
TOTALS:				4753	114	9	1	125	70

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS

STATION	DESCRIPTION	PIPE CULVERTS	BOX CULVERTS	DROP INLETS
		LIN. FT.	EACH	EACH
107+50	SITE 1 - ELKHORN ORIGINAL TOUR ROADBED 22" X 16" X 32' C.M. ARCH PIPE CULVERT	32		
110+00	SITE 1 - ELKHORN ORIGINAL TOUR ROADBED 25" X 16" X 32' C.M. ARCH PIPE CULVERT	32		
113+50	SITE 1 - ELKHORN ORIGINAL TOUR ROADBED 29" X 16" X 32' C.M. ARCH PIPE CULVERT	32		
12+60	SITE 2 - ENTRANCE ROAD 18" X 85' ABANDONED C.M.P. SIDE DRAIN	85		
--	SITE 3 - VISITORS CENTER PARKING 18" C.M. PIPE CULVERTS & GRATE INLET	200		1
70+16	SITE 5 - ABANDONED HWY. 62 ROADBED 24" X 62' R.C. PIPE CULVERT	62		
110+52	SITE 5 - ABANDONED HWY. 62 ROADBED 24" X 46' R.C. PIPE CULVERT	46		
119+82	SITE 5 - ABANDONED HWY. 62 ROADBED 5' X 5' X 59' R.C. BOX CULVERT		1	
127+50	SITE 5 - ABANDONED HWY. 62 ROADBED 24" X 42' R.C. PIPE CULVERT	42		
149+26	SITE 5 - ABANDONED HWY. 62 ROADBED 60" X 54' C.M. PIPE CULVERT	54		
TOTALS:		585	1	1

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

RETAINING WALLS

STATION	STATION	LOCATION	ARCHITECTURAL FINISH	RETAINING WALL	RETAINING WALL W/FORMLINER AND COLOR ADDITIVE
			SQ.FT.	SQ.FT.	SQ.FT.
		SITE 4 - HORSE TRAILER PARKING	450		450
		SITE 6 - HQ ADMIN ROAD		130	
TOTALS:			450	130	450

WHEELCHAIR RAMPS

STATION	LOCATION	TYPE SPECIAL
		SQ.YD.
--	SITE 1 - ELKHORN TAVERN PARKING	75.0
13+40	SITE 2 - ENTRANCE ROAD RT.	26.0
--	SITE 3 - VISITORS CENTER PARKING	52.0
--	SITE 6 - HQ ADMIN ROAD	14.0
TOTAL:		167.0

WHEEL STOPS

LOCATION	EACH
SITE 1 - ELKHORN TAVERN PARKING	4
SITE 3 - VISITORS CENTER PARKING	16
SITE 6 - HQ ADMIN ROAD	2
TOTAL:	22

REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	CURB AND GUTTER	WALKS	SIGNS
			LIN. FT.	SQ. YD.	EACH
--		SITE 1 - ELKHORN TAVERN PARKING		545	
--		SITE 3 - VISTORS CENTER PARKING	1182	590	16
--		SITE 4 - HORSE TRAILER PARKING			2
--		SITE 6 - HQ ADMIN ROAD		40	
TOTALS:			1182	1175	18

CONCRETE COMBINATION CURB AND GUTTER

STATION	STATION	LOCATION	TYPE A (1' 6")	TYPE B
			LIN. FT.	LIN. FT.
64+95	65+07	SITE 1 - PARK TOUR ROAD	12	
--		SITE 1 - ELKHORN TAVERN PARKING	880	
12+25	13+75	SITE 2 - PARK ENTRANCE PULL OUT RT	150	
--		SITE 3 - VISITORS CENTER PARKING	2638	
--		SITE 4 - HORSE TRAILER PARKING		1052
--		SITE 6 - HQ ADMIN ROAD	225	
TOTALS:			3905	1052

REMOVAL AND DISPOSAL OF FENCE

STATION	STATION	LOCATION	FENCE
			LIN. FT.
--		SITE 3 - VISITORS CENTER PARKING	100
--		SITE 6 - HQ ADMIN ROAD	50
TOTAL:			150

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QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	33	151

(2) QUANTITIES

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT	* SOIL STABILIZATION
			CU. YD.		TON
52+17.96	60+97.49	SITE 1 - ELKHORN TAVERN TOUR ROAD	1288	538	
--		SITE 1 - ELKHORN TAVERN PARKING	580	6785	
64+95.11	70+34.96	SITE 1 - ELKHORN TAVERN TOUR ROAD	42	649	
104+19.59	122+39.21	SITE 1 - ELKHORN ORIGINAL TOUR ROAD DEMO	2354	210	
122+55.39	130+03.83	SITE 1 - ELKHORN TWO TRACK	495		
10+31.50	25+00.00	SITE 2 - ENTRANCE ROAD	3551	463	
13+00 RT		SITE 2 - ENTRANCE ROAD APPROACH		15	
25+00.00	38+97.97	SITE 3 - ENTRANCE ROAD	4476		
--		SITE 3 - VISITORS CENTER PARKING	12000	225	
--		SITE 4 - HORSE TRAILER PARKING	2100	1210	
69+51.50	70+50.00	SITE 5 - ABANDONDED HWY. 62 ROADBED DEMO	770	86	
101+12.60	156+46.94	SITE 5 - ABANDONDED HWY. 62 ROADBED DEMO	22234	13140	
127+32 RT		SITE 5 - APPROACH REMOVAL/REGRADING	1	38	
--		SITE 6 - HQ ADMIN ROAD	1900	80	
* ENTIRE	PROJECT	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			300
TOTALS:			51791	23439	300

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

TOPSOIL

STATION	STATION	LOCATION	AVERAGE DEPTH	TOPSOIL FURNISHED & PLACED	REMOVE & REPLACE TOPSOIL
			INCHES	CU. YDS.	CU. YDS.
51+67.96	60+97.49	SITE 1 - PARK TOUR ROAD	4	360.55	
--		SITE 1 - ELKHORN PARKING & TRAIL	4	750.00	
66+42.24	71+34.96	SITE 1 - PARK TOUR ROAD	4	156.84	
104+19.59	122+39.21	SITE 1 - ORIGINAL TOUR ROADBED DEMOLITION	6	1117.85	
122+55.39	130+03.83	SITE 1 - ELKHORN TWO-TRACK	6	300.81	
10+31.50	25+00.00	SITE 2 - PARK ENTRANCE ROAD	4	569.37	
25+00.00	38+97.97	SITE 3 - VISITORS CENTER ENTRANCE ROAD	4	760.67	
--		SITE 3 - VISITORS CENTER PARKING	4	825.00	
--		SITE 4 - HORSE TRAILER PARKING	4	480.00	
69+51.50	70+50.00	SITE 5 - ORIGINAL HWY. 62 ROADBED DEMOLITION	6		179.75
101+12.60	156+46.94	SITE 5 - ORIGINAL HWY. 62 ROADBED DEMOLITION	6		8808.50
--		SITE 6 - HQ ADMIN ROAD	4	355.00	
TOTALS:				5676.09	8988.25

FENCING

STATION	STATION	LOCATION	TEMPORARY FENCE	WELDED PIPE	WELDED PIPE GATES (12')	CANTILEVER CHAIN LINK GATE ASSEMBLY
			LIN. FT.	LIN. FT.	EACH	EACH
--	--	SITE 1 - TREE PROTECTION	200			
104+35	105+77	SITE 1 - TOUR ROAD DEMO	920			
52+18	70+35	SITE 1 - ELKHORN TOUR ROAD LT. & RT.	3924			
120+80	122+50	SITE 1 - ELKHORN TWO TRACK RT.	175			
30+58	31+02	SITE 3 - ENTRANCE ROAD LT.	43			
--	--	SITE 4 - HORSE TRAIL PARKING	100	1450	4	
100+80	101+50	SITE 5 - ABANDONED HWY. 62 ROADBED	200			
		SITE 6 - HQ ADMIN ROAD				2
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			1200			
TOTALS:			6762	1450	4	2

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

STRUCTURES

STATION	DESCRIPTION	REINFORCED CONCRETE PIPE CULVERT (CLASS III) 18"	24"	22"X14"	29"X18"	36"X23"	FLARED END SECTIONS FOR R.C. PIPE 18"	DROP INLETS TYPE E	MO	EXT. 4'	HEADWALLS	CONCRETE FLUME (3')	SIDEWALK UNDERDRAIN	STD. DWG. NOS.
		LIN. FT.					EACH					LIN. FT.		
55+25	SITE 1 - TOUR ROAD CONSTRUCT 22" X 14" X 32' R.C. ARCH PIPE CULVERT W/HDWLS			32							2			PCC-1
56+25	SITE 1 - TOUR ROAD CONSTRUCT 29" X 18" X 32' R.C. ARCH PIPE CULVERT W/HDWLS				32						2			PCC-1
60+00	SITE 1 - TOUR ROAD CONSTRUCT 36" X 23" X 37' R.C. ARCH PIPE CULVERT W/HDWLS					37					2			PCC-1
67+00	SITE 1 - TOUR ROAD CONSTRUCT 22" X 14" X 28' R.C. ARCH PIPE CULVERT W/HDWLS			28							2			PCC-1
	SITE 3 - VISITORS CENTER PARKING	70	131				3	1	1	1		30	20	FES-2,FPC-9,FPC-9M,PCC-1
	SITE 6 - HQ ADMIN ROAD	58									2			PCC-1
TOTALS:		128	131	60	32	37	3	1	1	1	10	30	20	

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

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	34	151

2 QUANTITIES

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL								
			SPECIAL SEEDING	LIME	SPECIAL MULCH COVER	WATER	SPECIAL SECOND SEEDING APPLICATION	TEMPORARY SEEDING	SPECIAL MULCH COVER	WATER	WATTLE (20") DITCH CHECKS (E-1)	SAND BAG DITCH CHECKS (E-5)	SILT FENCE (E-11)	FILTER SOCK (18") (E-13)	EROSION CONTROL BLANKET	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	LIN. FT.	BAG	LIN. FT.	LIN. FT.	SQ. YD.	CU. YD.
52+18	70+35	SITE 1 CLEARING & GRUBBING - ELKHORN PARKING/TOUR RD/TWO-TRACK									18		3942			148
52+18	70+35	SITE 1 STAGE 1 - ELKHORN PARKING/TOUR ROAD/TWO-TRACK	4.04	8.08	4.04	412.1	4.04	4.04	4.04	82.4	252	660				58
10+32	25+00	SITE 2 CLEARING & GRUBBING - ENTRANCE ROAD									36	110	760			37
10+32	25+00	SITE 2 STAGE 1 - ENTRANCE ROAD	1.06	2.12	1.06	108.1	1.06	1.06	1.06	21.6	18	22				3
25+00	38+98	SITE 3 CLEARING & GRUBBING - VISITORS CENTER ENTRANCE/PARKING									36	88	1102			49
25+00	38+98	SITE 3 STAGE 1 - VISITORS CENTER ENTRANCE/PARKING	2.84	5.68	2.84	289.7	2.84	2.84	2.84	57.9	36	110		108	25	13
--		SITE 4 CLEARING & GRUBBING - HORSE TRAILER PARKING									9		589			23
--		SITE 4 STAGE 1 - HORSE TRAILER PARKING	0.75	1.50	0.75	76.5	0.75	0.75	0.75	15.3						2
69+52	156+47	SITE 5 CLEARING & GRUBBING - ORIGINAL HWY. 62 ROADBED DEMO									18		4613			171
69+52	156+47	SITE 5 STAGE 1 - ORIGINAL HWY. 62 ROADBED DEMO	11.20	22.40	11.20	1142.4	11.20	11.20	11.20	228.5						
--		SITE 6 CLEARING & GRUBBING - HQ ADMIN ROAD											300			34
--		SITE 6 STAGE 1 - HQ ADMIN ROAD	1.00	2.00	1.00	102.0	1.00	1.00	1.00	20.4						
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			3.00	6.00	3.00	306.0	3.00	3.00	3.00	61.2	108	242	2261	72	300	86
TOTALS:			**23.89**	**47.78**	**23.89**	**2436.8**	**23.89**	**23.89**	**23.89**	**487.3**	**531**	**1232**	**13567**	**180**	**325**	**624**

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
WATTLE DITCH CHECKS.....9 LIN. FT. / LOCATION
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
FILTER SOCK INLET PROTECTION...36 LIN.FT./LOCATION

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

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

SIGNS AND SUPPORTS

SIGN NUMBER	DESCRIPTION	SIGN SIZE	SITE 1 ELKHORN TAVERN PARKING	SITE 3 VISITORS CENTER PARKING	SITE 6 HQ ADMIN RD.	TOTAL SIGNS REQUIRED		SUPPORT ASSEMBLY TYPE A	STANDARD DRAWING NUMBER
			LIN. FT. - EACH			NO.	SQ. FT.	EACH	
R1-1	STOP	30"x30"			1	1	6.3	1	SHS-1, SHS-2
R1-2	YIELD	36"x36"x36"		3		3	13.5	3	SHS-1, SHS-2
R7-8	RESERVED PARKING (ACCESSIBLE SYMBOL)	12"x18"	4	6	1	11	16.5	11	SHS-1, SHS-2
R7-8A or B	VAN ACCESSIBLE	12"x6"	1	1	1	3	1.5		SHS-1, SHS-2
TOTALS:							**37.8**	**15**	

CONDUIT & PULL BOXES

LOCATION	NON-METALLIC CONDUIT		CONCRETE PULL BOX	
	1"	2"	TYPE 1	TYPE 2
	LIN. FT.		EACH	
HQ ADMIN ROAD	1100	1100	10	1
TOTALS:	**1100**	**1100**	**10**	**1**

QUANTITIES

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020

DRIVEWAYS & TURNOUTS

STATION	SIDE	LOCATION	WIDTH	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 70-22)		AGGREGATE BASE COURSE (CLASS 7)
			FEET	SQ. YD.	TON	TON
13+00	LT	SITE 2 - ENTRANCE ROAD	24	175.59	19.31	71.70
TOTALS:				175.59	19.31	71.70

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.1% MIN. AGGR.....5.9% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT (0.05 GAL. PER SQ. YD.)			ACHM SURFACE COURSE (1/2")				PORTLAND CEMENT CONCRETE PAVING (6" UNIFORM THICKNESS)
				TON / STATION	TON	TOTAL WID.	SQ.YD.	GALLON	AVG. WID.	SQ.YD.	POUND / SQ.YD.	TOTAL PG 70-22	
			FEET			FEET			FEET			TON	SQ. YDS.
SITE 1 - ELKHORN TAVERN													
51+17.96	52+17.96	PARK TOUR ROAD TRANSITION	100.00	46.50	46.50	12.11	134.56	6.73	12.11	134.56	165.00	11.10	
52+17.96	60+97.49	PARK TOUR ROAD	879.53	93.00	817.96	12.00	1172.71	58.64	12.00	1172.71	330.00	193.50	
--		PARKING AREA		--	1150.00	VAR.	2090.91	104.55	VAR.	2090.91	330.00	345.00	110.00
64+95.11	70+34.96	PARK TOUR ROAD	539.85	93.00	502.06	12.00	719.80	35.99	12.00	719.80	330.00	118.77	
70+34.96	71+34.96	PARK TOUR ROAD TRANSITION	100.00	46.50	46.50	12.00	133.33	6.67	12.00	133.33	165.00	11.00	
119+95.00	122+55.39	ELKHORN GRAVEL TRACKS ON BOTH SIDES OF EXIST. WALKWAY	260.39	45.00	117.18								
122+55.39	123+13.65	ELKHORN NEW TWO-TRACK CONST. (COLORED CONC. W/GRAVEL)	58.26	64.50	37.58								
123+13.65	123+27.53	ELKHORN NEW TWO-TRACK (COLORED CONC. W/EXP.AGG.RT.-GRV.	13.88	63.00	8.74								
123+27.53	130+03.83	ELKHORN NEW TWO-TRACK CONSTRUCTION	676.30	64.50	436.21								
SITE 1 SUBTOTALS					3162.73		4251.31	212.58		4251.31		679.37	110.00
SITE 2 - PARK ENTRANCE ROAD													
10+31.50	10+59.53	ENTRANCE ROAD RETURN	28.03	VAR.	37.68	VAR.	109.80	5.49	VAR	109.80	330.00	18.12	
10+59.53	13+50.00	ENTRANCE ROAD	290.47	204.75	594.74	36.00	1161.88	58.09	36.00	1161.88	330.00	191.71	
13+50.00	14+00.00	ENTRANCE ROAD TRANSITION	50.00	165.63	82.82	33.00	183.33	9.17	33.00	183.33	330.00	30.25	
14+00.00	25+00.00	ENTRANCE ROAD	1100.00	126.50	1391.50	30.00	3666.67	183.33	30.00	3666.67	330.00	605.00	
12+25.00	12+50.00	ADDITIONAL FOR PULL OUT TRANSITION	25.00	35.25	8.81	3.00	8.33	0.42	3.00	8.33	330.00	1.37	
12+50.00	13+50.00	ADDITIONAL FOR PULL OUT	100.00	70.50	70.50	6.00	66.67	3.33	6.00	66.67	330.00	11.00	
13+50.00	13+75.00	ADDITIONAL FOR PULL OUT TRANSITION	25.00	35.25	8.81	3.00	8.33	0.42	3.00	8.33	330.00	1.37	
10+59.50	11+84.50	ADDITIONAL FOR SUPER TRANSITION	125.00	31.38	39.23								
11+84.50	13+96.29	ADDITIONAL FOR MAX. SUPER	211.79	62.75	132.90								
13+96.29	15+21.29	ADDITIONAL FOR SUPER TRANSITION	125.00	31.38	39.23								
ENTIRE PROJECT		TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			2000.00								
SITE 2 SUBTOTALS					4406.22		5205.01	260.25		5205.01		858.82	
SITE 3 - VISITOR CENTER													
25+00.00	30+40.98	ENTRANCE ROAD	540.98	126.50	684.34	30.00	1803.27	90.16	30.00	1803.27	330.00	297.54	
30+40.98	31+65.00	ENTRANCE ROAD TRANSITION & RETURN	124.02	VAR.	295.69	VAR.	583.62	29.18	VAR	583.62	330.00	96.30	
31+65.00	38+97.97	ENTRANCE ROAD (ONE-WAY)	732.97	119.75	877.73	33.00	2687.56	134.38	33.00	2687.56	330.00	443.45	
--		PARKING AREA		--	4313.00	VAR.	9763.64	488.18	VAR.	9763.64	330.00	1611.00	166.00
SITE 3 SUBTOTALS					6170.76		14838.09	741.90		14838.09		2448.29	166.00
SITE 4 - HORSE TRAILER PARKING													
--		PARKING AREA		--	2660.00	VAR.	3224.24	161.21	VAR.	3224.24	330.00	532.00	
SITE 4 SUBTOTALS					2660.00		3224.24	161.21		3224.24		532.00	
SITE 6 - PARK NON-PUBLIC ROADS													
--		HQ ADMIN ROAD		VAR.	940.00	VAR.	2272.73	113.64	VAR.	2272.73	330.00	375.00	56.00
SITE 6 SUBTOTALS					940.00		2272.73	113.64		2272.73		375.00	56.00
TOTALS:					17339.71		29791.38	1489.58		29791.38		4893.48	332.00

QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.
BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.1% MIN. AGGR.....5.9% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

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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.		090384	36	151

(2) SUMMARY OF QUANTITIES AND REVISIONS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-29-2020

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	SITE 1 QUANTITY	SITE 2 QUANTITY	SITE 3 QUANTITY	SITE 4 QUANTITY	SITE 5 QUANTITY	SITE 6 QUANTITY	TOTAL	UNIT
SP & 201	CLEARING	2.00		1.10		2.10	1.10	6.30	ACRE
SP & 201	CLEARING	23	15	14		87		139	STATION
201	GRUBBING	2.00		1.10		2.10	1.10	6.30	ACRE
201	GRUBBING	23	15	14		87		139	STATION
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER			1182				1182	LIN. FT.
202	REMOVAL AND DISPOSAL OF FENCE			100		50		150	LIN. FT.
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS	96	85	200		204		585	LIN. FT.
202	REMOVAL AND DISPOSAL OF WALKS	545		590			40	1175	SQ. YD.
202	REMOVAL AND DISPOSAL OF DROP INLETS			1		1		1	EACH
202	REMOVAL AND DISPOSAL OF BOX CULVERTS			16	2			18	EACH
202	REMOVAL AND DISPOSAL OF SIGNS	4759	3551	16476	2100	23005	1900	51791	CU. YD.
SP, SS, & 210	UNCLASSIFIED EXCAVATION	8182	478	225	1210	13264	80	23439	CU. YD.
SP & 210	COMPACTED EMBANKMENT					8988		8988	CU. YD.
SP	REMOVING AND REPLACING TOPSOIL	50	50	50	50	50	50	300	TON
SP & 210	SOIL STABILIZATION	3162	4478	6171	2660		940	17411	TON
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	213	260	742	161		114	1490	GAL.
SS & 401	TACK COAT	639	826	2304	501		353	4623	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	40	52	144	31		22	290	TON
SP, SS, & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (1/2")	110		166			56	332	SQ. YD.
501	PORTLAND CEMENT CONCRETE PAVEMENT (6" UNIFORM THICKNESS)							1.00	LUMP SUM
601	MOBILIZATION	1						1	EACH
SP & 602	FURNISHING FIELD OFFICE							1.00	LUMP SUM
SS & 603	MAINTENANCE OF TRAFFIC		172					172	SQ. FT.
SS & 604	SIGNS		192					192	LIN. FT.
SS & 604	BARRICADES		25					25	EACH
SS & 604	TRAFFIC DRUMS			70			58	128	LIN. FT.
606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)			131				131	LIN. FT.
606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	60						60	LIN. FT.
606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	32						32	LIN. FT.
606	29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	37						37	LIN. FT.
606	36" X 23" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)			3				3	EACH
606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	8					2	10	EACH
SP	HEADWALLS			1				1	EACH
SS & 609	DROP INLETS (TYPE E)			1				1	EACH
SS & 609	DROP INLETS (TYPE MO)			1				1	EACH
SS & 609	DROP INLET EXTENSIONS (4')	5419	200	243	300	400	200	6762	LIN. FT.
SP	TEMPORARY FENCE				1450			1450	LIN. FT.
SP	WELDED PIPE FENCE				4		4	4	EACH
SP	WELDED PIPE GATES (12')						2	2	EACH
SP	CANTILEVER CHAIN LINK GATE ASSEMBLY WITH BARBED WIRE (20')	9	3	7	3	23	3	48	TON
620	LIME	4.54	1.56	3.34	1.25	11.70	1.50	23.89	ACRE
SP & 620	SPECIAL SEEDING	9.08	3.12	6.68	2.50	23.40	3.00	47.78	ACRE
SP, SS, & 620	SPECIAL MULCH COVER	555.7	190.9	408.8	153.0	1432.1	183.6	2924.1	M. GAL.
620	WATER	4.54	1.56	3.34	1.25	11.70	1.50	23.89	ACRE
621	TEMPORARY SEEDING	4319	1137	1479	966	4990	676	13567	LIN. FT.
621	SILT FENCE	700	173	239	40	40	40	1232	BAG
621	SAND BAG DITCH CHECKS	221	54	76	39	186	48	624	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL			180				180	LIN. FT.
SS & 621	FILTER SOCK (18")	288	72	90	27	36	18	531	LIN. FT.
621	WATTLE (20")	4.54	1.56	3.34	1.25	11.70	1.50	23.89	ACRE
SP & 623	SPECIAL SECOND SEEDING APPLICATION	50	50	75	50	50	50	325	SQ. YD.
SP	EROSION CONTROL BLANKET	2686	569	1586	480		355	5676	CU. YD.
SP & 628	TOPSOIL FURNISHED AND PLACED	2102	526	1912			213	4753	SQ. YD.
SS & 633	CONCRETE WALKS			1				1	SQ. YD.
SP, SS, & 633	CONCRETE STEPS	114						114	SQ. YD.
SP, SS, & 633	COLORED CONCRETE WALKS	9						9	SQ. YD.
SP, SS, & 633	EXPOSED AGGREGATE CONCRETE WALKS						125	125	LIN. FT.
SS & 633	HAND RAILING				70			70	LIN. FT.
SP	HAND RAILING (TYPE SPECIAL)			30				30	LIN. FT.
SP	CONCRETE FLUME (3')			20				20	LIN. FT.
SP	SIDEWALK UNDERDRAIN	4		16			2	22	EACH
SP	WHEEL STOPS	892	150	2638	1052		225	3905	LIN. FT.
SS & 634	CONCRETE CURB (TYPE B)							1.00	LUMP SUM
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	75	26	52			14	167	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL						1100	1100	LIN. FT.
SP & 641	WHEELCHAIR RAMPS (TYPE SPECIAL)						1100	1100	LIN. FT.
710	NON-METALLIC CONDUIT (1")						10	10	EACH
710	NON-METALLIC CONDUIT (2")						1	1	EACH
SP & 711	CONCRETE PULL BOX (TYPE 1)	420		2448			240	3108	LIN. FT.
SP & 711	CONCRETE PULL BOX (TYPE 2)			100				100	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (4")	75		326				401	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")	190		1285			500	1785	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")			825			140	1155	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")	4		19				19	EACH
718	REFLECTORIZED PAINT PAVEMENT MARKING BLUE (4")			7			1	12	EACH
718	REFLECTORIZED PAINT PAVEMENT MARKING (ARROWS)		2796	2745				5541	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")		12					12	EACH
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")		2880	1082				3962	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")			280				280	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (8")				110			110	EACH
SP	CAR BAY MARKING DOTS	7		23			8	38	SQ. FT.
SS & 726	STANDARD SIGN	4		9			2	15	EACH
SS & 729	CHANNEL POST SIGN SUPPORT (TYPE A)						130	130	SQ. FT.
SP	RETAINING WALL				450			450	SQ. FT.
SP	ARCHITECTURAL FINISH				450			450	SQ. FT.
SP	RETAINING WALL WITH FORMLINER AND COLOR ADDITIVE								

REVISIONS

DATE	REVISION	SHEET NUMBER

SUMMARY OF QUANTITIES AND REVISIONS

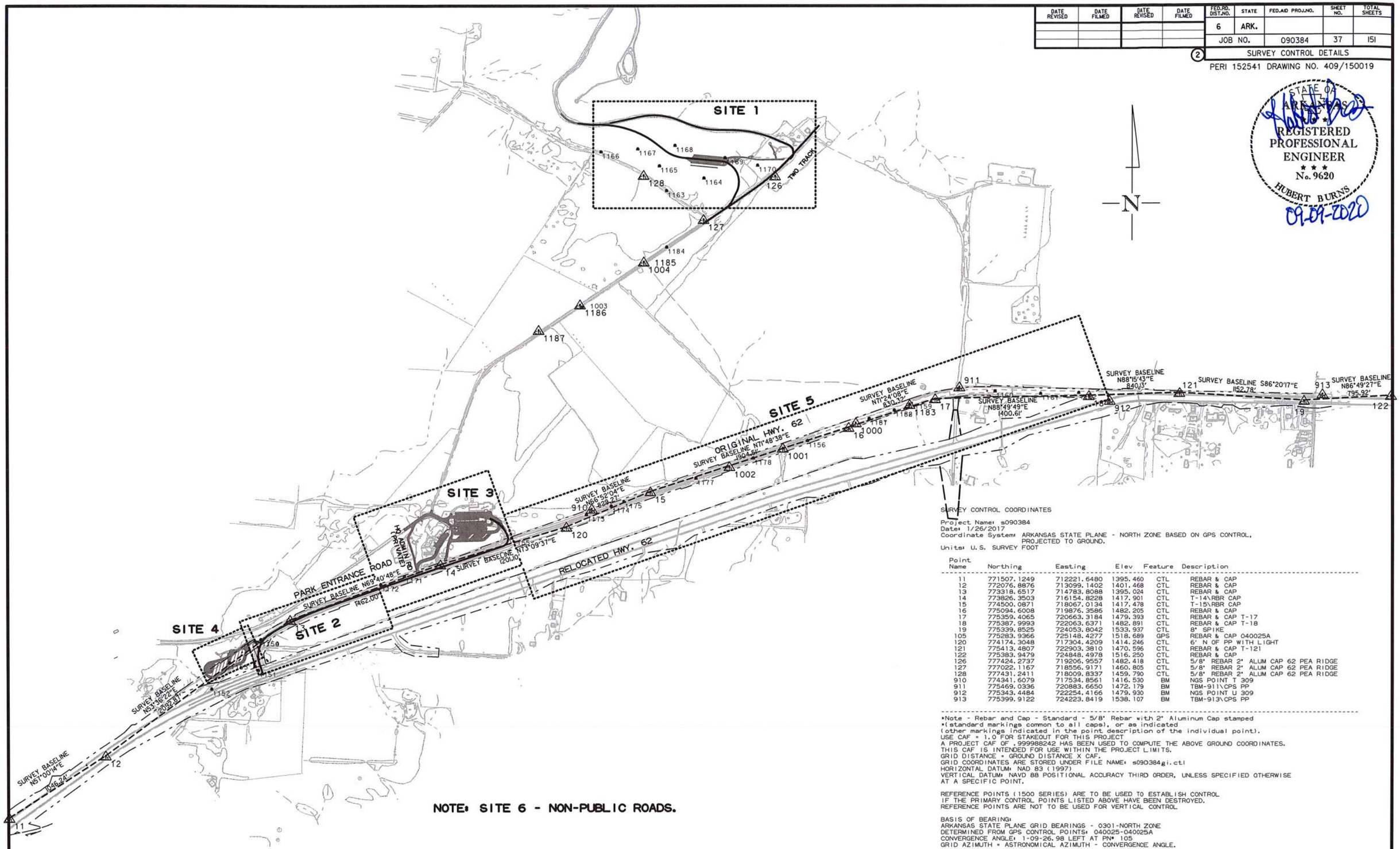
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	37	151

2 SURVEY CONTROL DETAILS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020



SURVEY CONTROL COORDINATES

Project Name: s090384
Date: 1/26/2017
Coordinate System: ARKANSAS STATE PLANE - NORTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.
Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
11	771507.1249	712221.6480	1395.460	CTL	REBAR & CAP
12	772076.8876	713099.1402	1401.468	CTL	REBAR & CAP
13	773318.6517	714783.8088	1395.024	CTL	REBAR & CAP
14	773826.3503	716154.8228	1417.901	CTL	T-14\RBR CAP
15	774500.0871	718067.0134	1417.478	CTL	T-15\RBR CAP
16	775094.6008	719876.3586	1482.205	CTL	REBAR & CAP
17	775359.4065	720663.3184	1479.393	CTL	REBAR & CAP T-17
18	775387.9993	722063.6371	1482.891	CTL	REBAR & CAP T-18
19	775339.8525	724053.8042	1533.937	CTL	8" SPIKE
105	775283.9366	725148.4277	1518.689	GPS	REBAR & CAP 040025A
120	774174.3048	717304.4209	1414.246	CTL	6' N OF PP WITH LIGHT
121	775413.4807	722903.3810	1470.596	CTL	REBAR & CAP T-121
122	775383.9479	724848.4978	1516.250	CTL	REBAR & CAP
126	777424.2737	719206.9557	1482.418	CTL	5/8" REBAR 2" ALUM CAP 62 PEA RIDGE
127	777022.1167	718556.9171	1460.805	CTL	5/8" REBAR 2" ALUM CAP 62 PEA RIDGE
128	777431.2411	718009.8337	1459.790	CTL	5/8" REBAR 2" ALUM CAP 62 PEA RIDGE
910	774341.6079	717534.8561	1416.530	BM	NGS POINT T 309
911	775469.0336	720883.6650	1472.179	BM	TBM-911\CPS PP
912	775343.4484	722254.4166	1479.930	BM	NGS POINT U 309
913	775399.9122	724223.8419	1538.107	BM	TBM-913\CPS PP

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped
*(standard markings common to all caps), or as indicated
(other markings indicated in the point description of the individual point).
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT
A PROJECT CAF OF .999988242 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME: s090384gi.ctl
HORIZONTAL DATUM: NAD 83 (1997)
VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE AT A SPECIFIC POINT.

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

BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS - 0301-NORTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 040025-040025A
CONVERGENCE ANGLE: 1-09-26.98 LEFT AT PN: 105
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

SURVEY CONTROL DETAILS

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\survey_ctl\r090384_Survey Ctl.dgn
PLOTTED: 9/8/2020 09:39 SCALE: 1:800

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	38	151

2 SURVEY CONTROL POINTS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020

090384 - CL PARK TOUR ROAD (SITE 1)

POINT NO.	TYPE	STATION	NORTHING	EASTING
8024	P.O.B.	50+42.54	777909.2644	717416.7449
8025	P.C.	51+03.15	777902.1267	717476.9377
8027	P.R.C.	52+17.96	777897.9963	717591.5417
8029	P.T.	53+19.12	777893.7249	717692.4741
8030	P.C.	53+53.05	777889.3066	717726.1211
8032	P.T.	57+88.11	777723.3273	718122.7498
8033	P.C.	58+95.98	777657.0143	718207.8246
8035	P.T.	60+76.77	777591.1660	718373.6002
8036	P.C.	64+31.96	777557.7889	718727.2142
8038	P.C.C.	64+95.11	777537.1106	718786.2314
8040	P.T.	67+87.56	777279.0989	718859.3937
8041	P.C.	68+75.49	777199.4798	718822.0789
8043	P.T.	69+84.71	777117.2878	718752.1222
8044	P.O.E.	72+28.33	776979.9793	718550.8822

090384 - CL ORIGINAL PARK TOUR ROAD (SITE 1)

POINT NO.	TYPE	STATION	NORTHING	EASTING
8093	P.T.	104+77.95	777913.7411	717710.3865
8094	P.C.	107+42.46	777970.8064	717968.6647
8096	P.T.	111+00.73	777942.2077	718320.4798
8097	P.C.	112+11.01	777901.3388	718422.8994
8099	P.T.	114+86.14	777847.9900	718691.2452
8100	P.C.	116+15.50	777846.3313	718820.5922
8102	P.T.	120+16.67	777761.9351	719210.0387
8103	P.C.	121+44.00	777710.7150	719326.6103
8105	P.T.	123+00.27	777581.0494	719346.0217
8051	P.C.	125+34.25	777428.3200	719168.7605
8053	P.T.	129+27.79	777188.7306	718856.8292
8106	P.O.E.	132+43.21	777010.9533	718596.2778

090384 - CL TWO TRACK (ELKHORN TAVERN SITE 1)

POINT NO.	TYPE	STATION	NORTHING	EASTING
8107	P.O.B.	119+00.00	777887.0412	719602.9151
8112	P.C.	122+63.25	777614.8854	719362.3272
8114	P.T.	127+57.70	777286.2247	718994.4554
8115	P.O.E.	130+18.75	777136.3653	718780.6944

090384 - CL PARK ENTRANCE ROAD (SITE 2 & 3)

POINT NO.	TYPE	STATION	NORTHING	EASTING
8010	P.O.B.	10+00.00	772817.3861	714537.9871
8013	P.C.	11+01.51	772913.2766	714504.6959
8019	P.T.	14+27.54	773196.4292	714607.6348
8022	P.C.	14+27.54	773196.4301	714607.6363
8055	P.T.	20+05.07	773441.2016	715129.6525
8056	P.I.	28+25.24	773712.9050	715903.5064
8057	P.C.	36+90.73	773994.9807	716721.7358
8059	P.T.	38+17.88	774098.9460	716764.6123
8060	P.C.	38+27.29	774107.3946	716760.4633
8062	P.T.	40+36.86	774249.6004	716612.3383

090384 - CL HORSE TRAILER ENTRANCE (SITE 2)

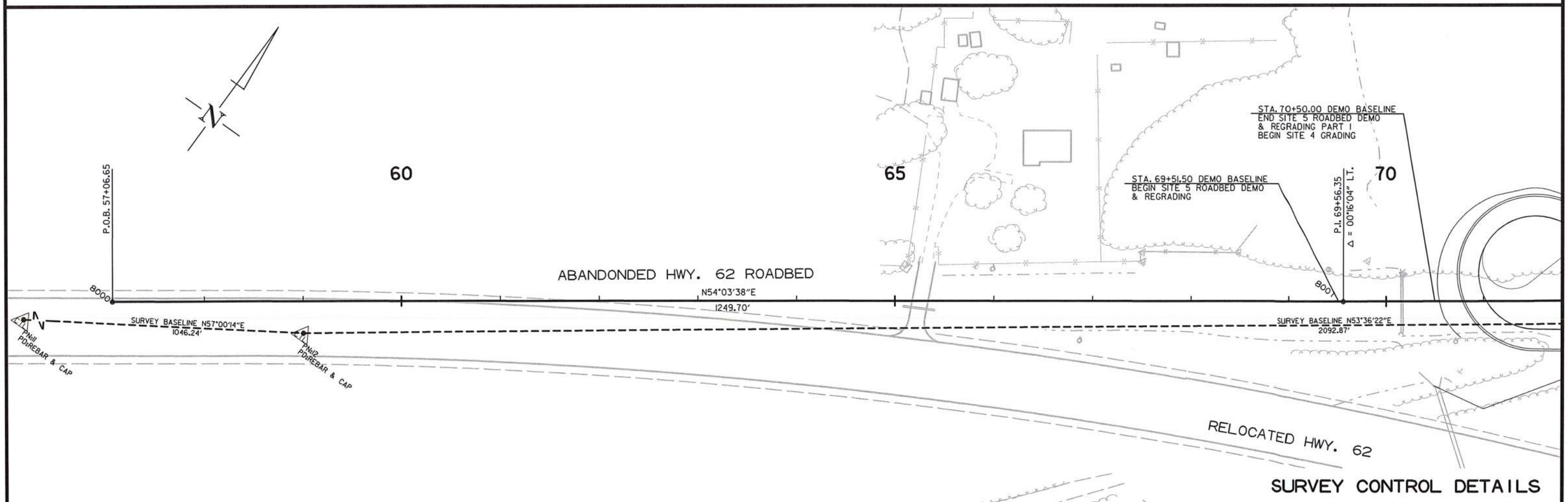
POINT NO.	TYPE	STATION	NORTHING	EASTING
8063	P.O.B.	0+00.00	773105.1205	714520.8186
8064	P.C.	0+17.80	773113.0137	714504.8651
8066	P.C.C.	0+70.18	773123.1772	714454.0882

090384 - DEMO OLD HWY. 62 BASELINE (SITE 5)

POINT NO.	TYPE	STATION	NORTHING	EASTING
8000	P.O.B.	57+06.65	771989.5128	712922.9738
8070	P.I.	69+56.35	772723.0014	713934.7797
8002	P.C.	74+65.87	773023.9788	714345.9054
8004	P.T.	83+83.35	773450.0096	715154.7393
8056	P.I.	91+76.93	773712.9050	715903.5064
8072	P.C.	140+04.93	775320.2187	720456.1029
8073	P.T.	146+97.02	775428.6586	721135.8197
8085	P.O.E.	158+00.00	775403.3078	722238.5064

090384 - CL OLD LIBERTY RD

POINT NO.	TYPE	STATION	NORTHING	EASTING
8074	P.O.B.	10+00.00	774243.5854	720805.0402
8075	P.C.	11+29.39	774372.7730	720812.3125
8077	P.T.	13+50.24	774593.3795	720822.5996
8078	P.C.	13+89.87	774632.9834	720824.0640
8080	P.T.	15+30.84	774773.8189	720830.1394
8081	P.C.	18+76.99	775119.5528	720847.1849
8083	P.T.	21+19.08	775361.4959	720855.2731
8084	P.O.E.	21+74.74	775417.1463	720856.2512



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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

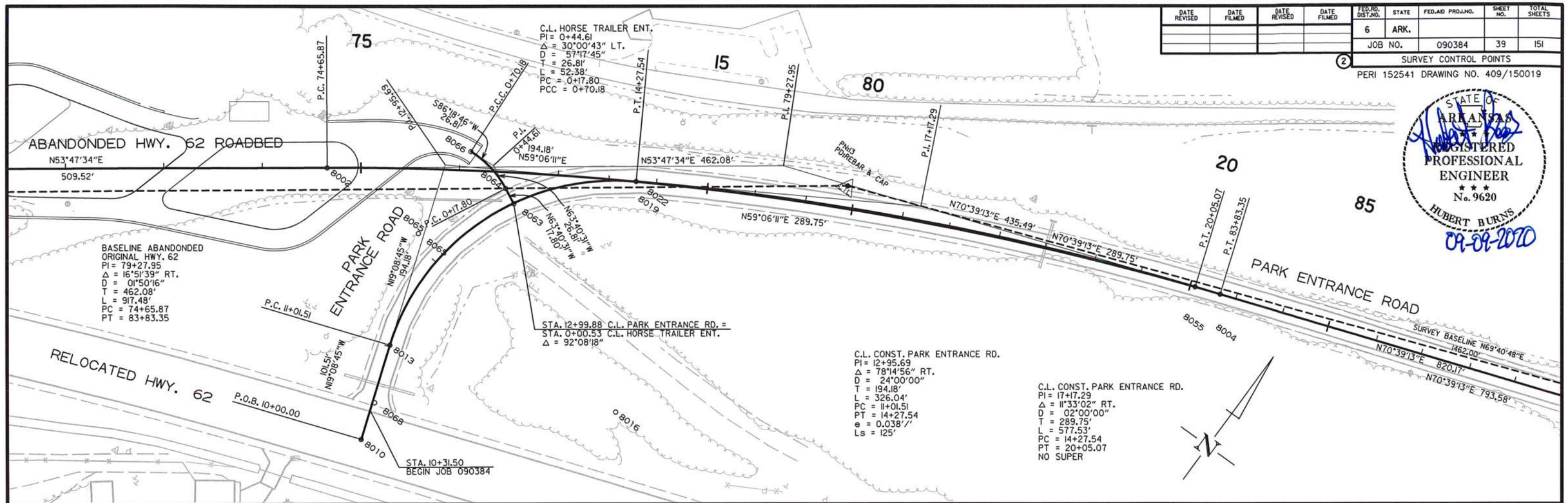
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	39	151

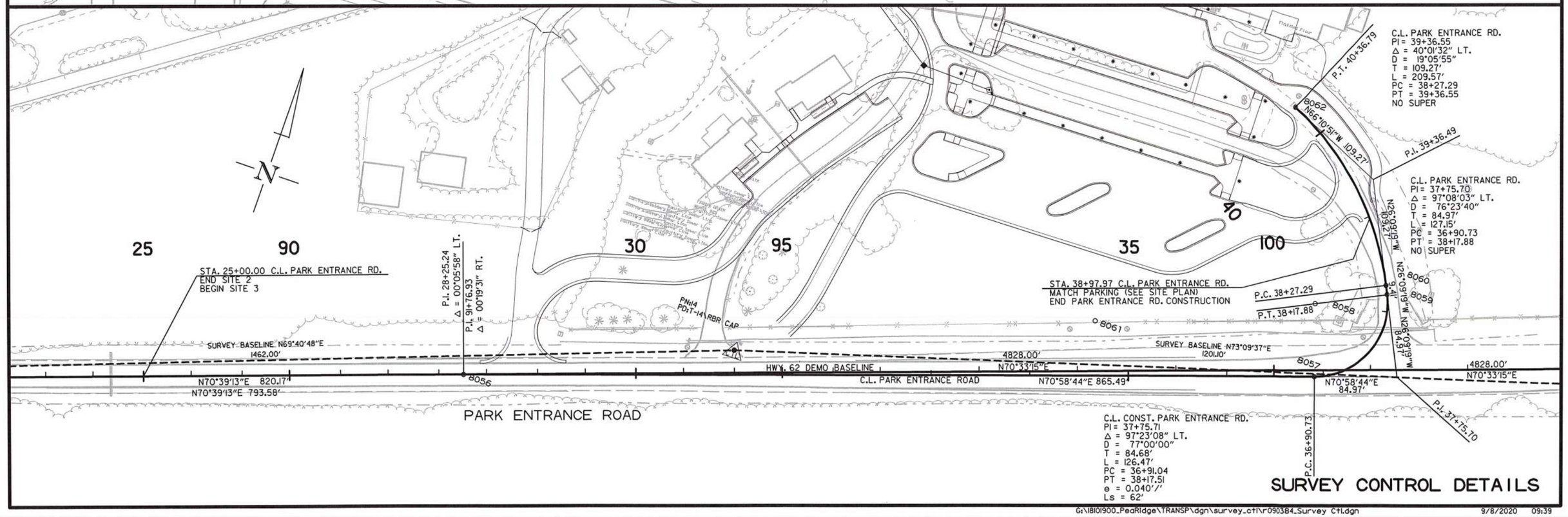
SURVEY CONTROL POINTS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020





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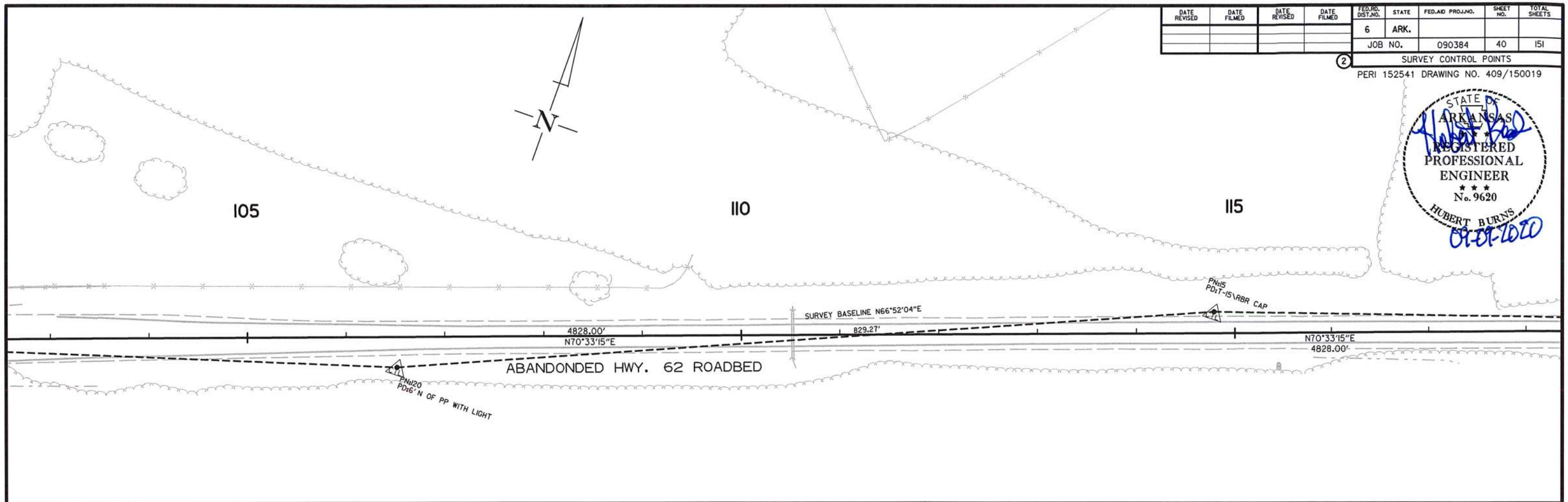
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	40	151

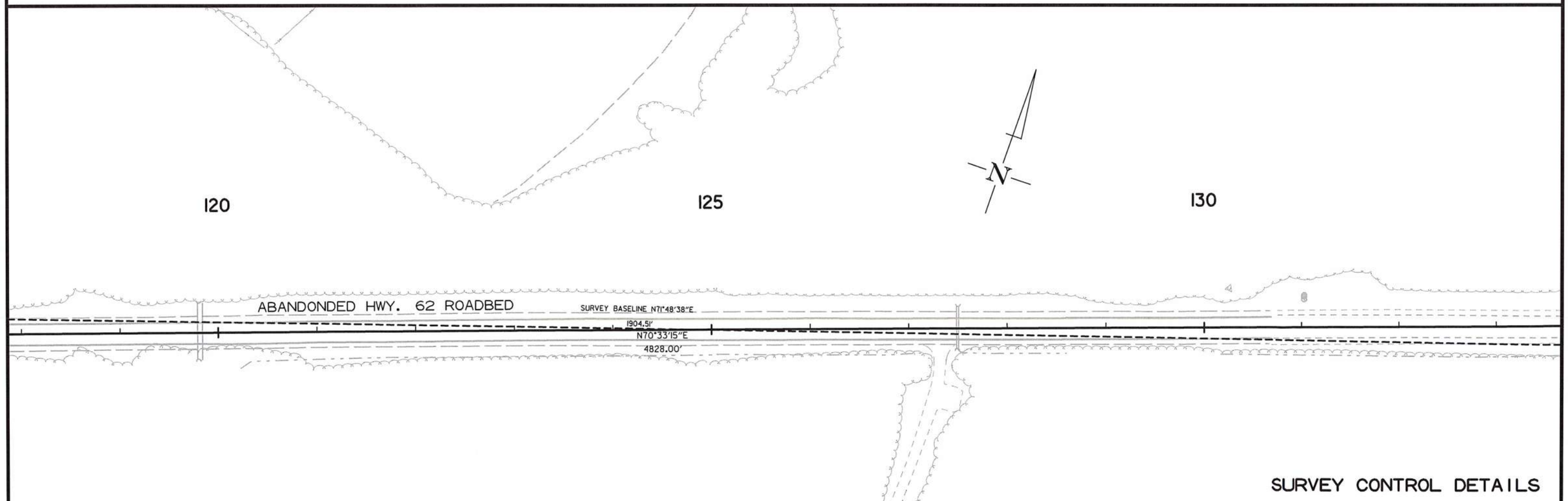
(2) SURVEY CONTROL POINTS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-09-2020





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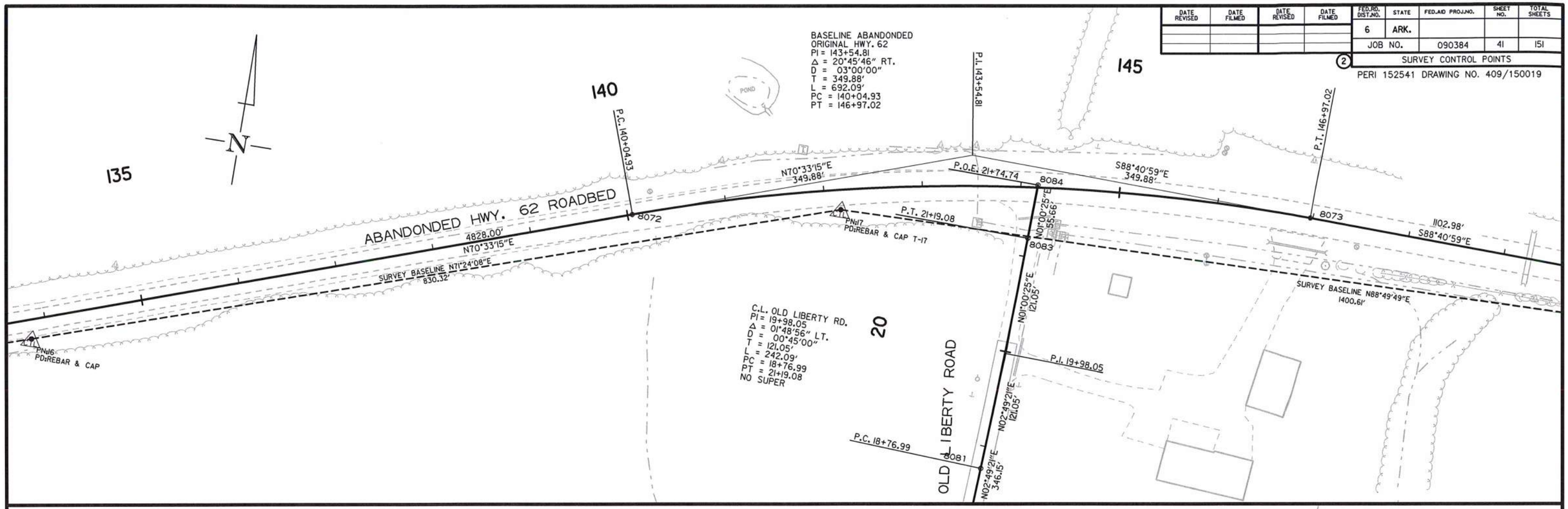
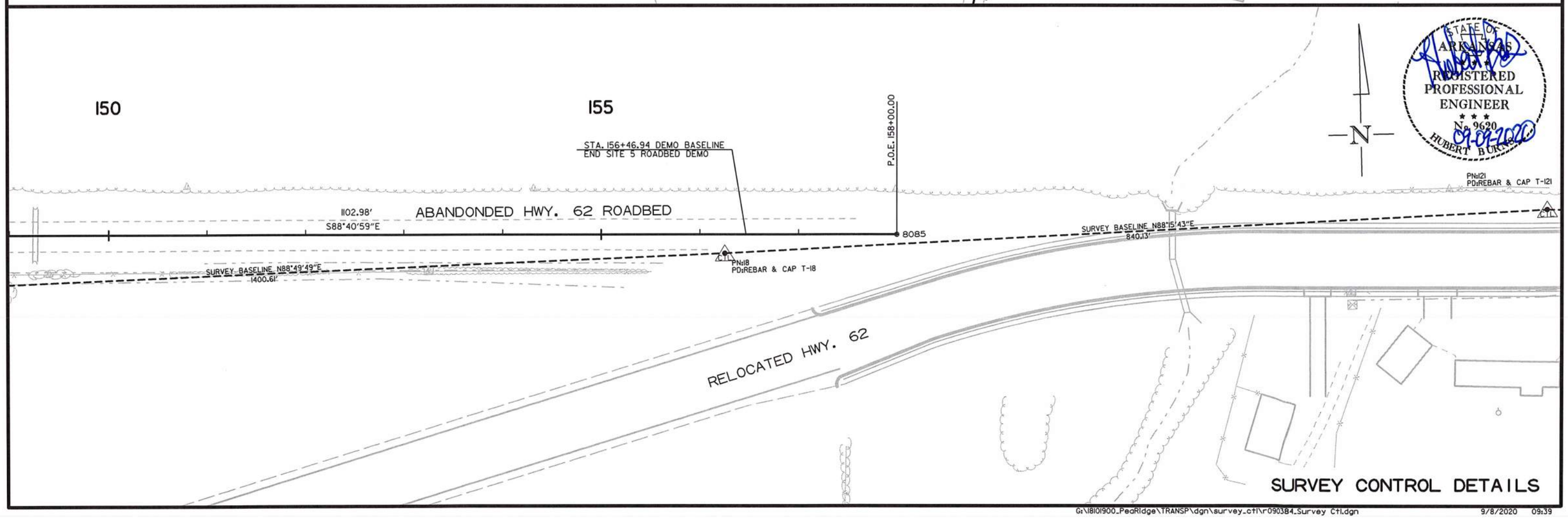
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	41	151

2 SURVEY CONTROL POINTS

PERI 152541 DRAWING NO. 409/150019





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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.		090384	42	151

2 SURVEY CONTROL POINTS

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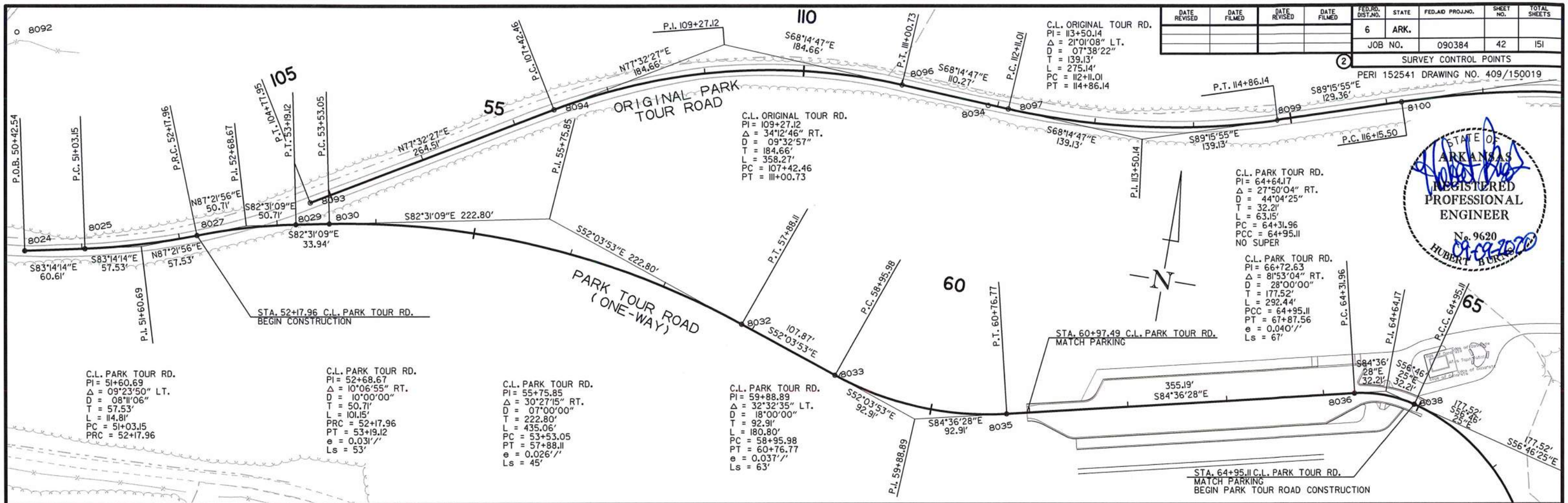

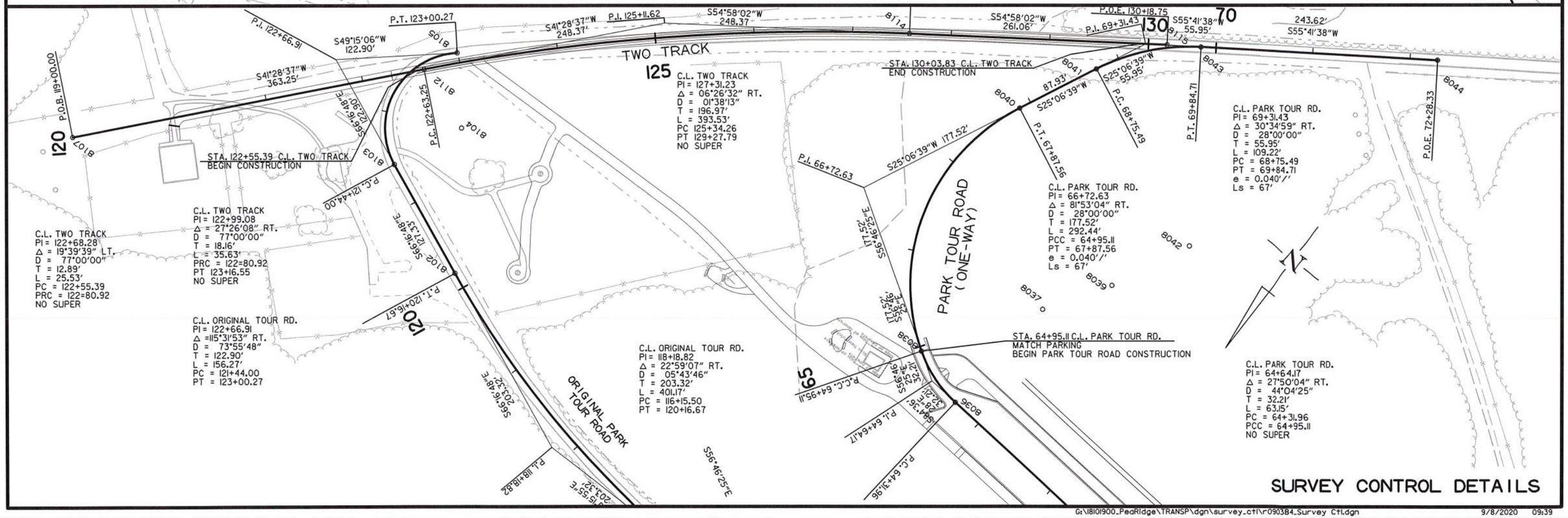

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	43	151

(2) SURVEY DATA SHEETS – STAKING TABLES – PARKING SITES

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

SITE 1 ELKHORN TAVERN PARKING STAKING TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
8501	POB	777537.11	718786.23
8502	MOC	777551.05	718757.98
8503	PC	777557.79	718727.21
8504	POE	777589.22	718394.23
8505	POB	777595.46	718914.41
8506	PC	777590.13	718950.68
8507	PC	777579.46	719008.42
8508	PC	777572.91	719085.18
8509	PC	777573.20	719108.01
8510	PI	777574.54	719214.17
8511	POE	777575.95	719327.04
8512	MOC	777574.31	719046.64
8513	MOC	777593.13	718932.59
8514	MOC	777594.22	719213.51
8515	PC	777599.79	719212.22
8516	PC	777588.53	719213.99
8517	PI	777641.36	719199.12
8518	PC	777655.64	719194.39
8519	MOC	777669.24	719188.75
8520	PC	777681.86	719181.17
8521	POE	777712.68	719159.42

SITE 3 VISITOR CENTER PARKING STAKING TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
8301	POB	773743.18	715955.70
8302	PC	773764.97	715948.09
8303	PC	773819.66	715930.63
8304	MOC	773837.10	715925.89
8305	PRC	773854.90	715922.74
8306	MOC	773881.38	715918.07
8307	PC	773907.33	715911.05
8308	PC	774048.74	715865.92
8309	MOC	774073.22	715863.40
8310	PC	774096.65	715870.92
8311	PC	774132.33	715891.22
8312	MOC	774153.40	715902.12
8313	PRC	774175.27	715911.32
8314	MOC	774215.92	715931.43
8315	PI	774237.04	715953.50
8316	PC	774147.01	715825.74
8317	PC	774269.85	716000.06
8318	MOC	774287.83	716050.34
8319	PC	774277.38	716102.72
8320	PC	774249.54	716157.87
8321	MOC	774242.17	716197.44
8322	PRC	774257.20	716234.78
8323	PI	774264.29	716251.28
8324	MOC	774277.11	716253.50
8325	PC	774287.79	716255.91
8326	POE	774298.17	716259.38
8327	POC	773807.75	715946.10
8328	MOC	773824.02	715952.21
8329	POC	773846.92	715970.41
8330	PC	773861.69	715997.88

SITE 3 VISITOR CENTER PARKING STAKING TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
8331	PC	773881.63	716066.16
8332	MOC	773901.57	716099.14
8333	PC	773935.26	716117.86
8334	MOC	773960.63	716125.33
8335	PC	773974.35	716131.99
8336	PC	773946.12	716120.60
8337	PC	774017.31	716156.59
8338	MOC	774037.57	716169.06
8339	PC	774057.01	716182.78
8340	POE	774115.52	716226.96
8341	POB	773888.48	716205.68
8342	MOC	773863.47	716194.57
8343	PC	773915.05	716212.29
8344	PC	773990.60	716224.20
8345	MOC	774031.28	716233.55
8346	PC	774070.27	716248.47
8347	PC	774087.48	716256.46
8348	POC	774124.45	716265.64
8349	MOC	774162.42	716260.24
8350	POC	774190.31	716245.25
8351	PC	774218.89	716210.83
8352	PI	774227.83	716193.12
8353	PCC	774203.73	716232.91
8354	MOC	774230.90	716221.43
8355	POB	774166.60	716722.16
8356	MOC	774204.43	716684.66
8357	PI	774213.52	716673.33
8358	PCC	774235.03	716641.07
8359	MOC	774248.75	716612.16
8360	PC	774257.68	716581.43

SITE 3 VISITOR CENTER PARKING STAKING TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
8361	PC	774265.34	716544.19
8362	MOC	774269.47	716516.07
8363	PC	774270.39	716487.67
8364	PC	774264.66	716255.54
8365	PI	774185.26	716248.86
8366	PC	774193.82	716602.18
8367	MOC	774217.55	716629.59
8368	PI	774248.99	716611.52
8369	PI	774118.13	716265.11
8370	PC	774127.17	716638.34
8371	MOC	774131.85	716658.59
8372	PC	774144.36	716675.18
8373	PC	774149.69	716679.82
8374	MOC	774183.01	716690.39
8375	PI	774047.99	716239.19
8376	PC	774055.06	716531.29
8377	MOC	774058.82	716548.04
8378	PC	774068.70	716562.08
8379	PC	774111.67	716603.02
8380	MOC	774122.97	716619.12

SITE 4 HORSE TRAILER PARKING STAKING TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
8203	PC	773123.38	714459.91
8204	MOC	773123.18	714454.09
8205	MOC	773109.84	714420.08
8206	PCC	773116.34	714423.65
8207	MOC	773097.18	714384.54
8208	PC	773072.19	714348.87
8209	PC	773004.52	714258.04
8210	PI	772992.97	714241.46
8211	MOC	772972.60	714205.24
8212	PC	772951.41	714147.29
8213	PC	772928.55	714059.24
8214	POC	772889.37	714013.77
8215	MOC	772834.34	714014.54
8216	POC	772796.77	714059.81
8217	PC	772806.89	714115.14
8218	PC	772851.19	714178.87
8219	MOC	772866.10	714202.63
8220	PC	772878.73	714227.67
8221	PC	772926.90	714335.45
8222	MOC	772942.58	714356.47
8223	PC	772965.73	714368.81
8224	PC	773079.25	714400.11
8225	MOC	772861.07	714193.09
8226	MOC	772873.23	714205.35
8227	PC	772888.84	714212.75
8228	POB	772868.62	714207.18

SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	44	151

(2) SURVEY DATA SHEETS - STAKING TABLES - SITE 1 ELKHORN TAVERN PARKIN

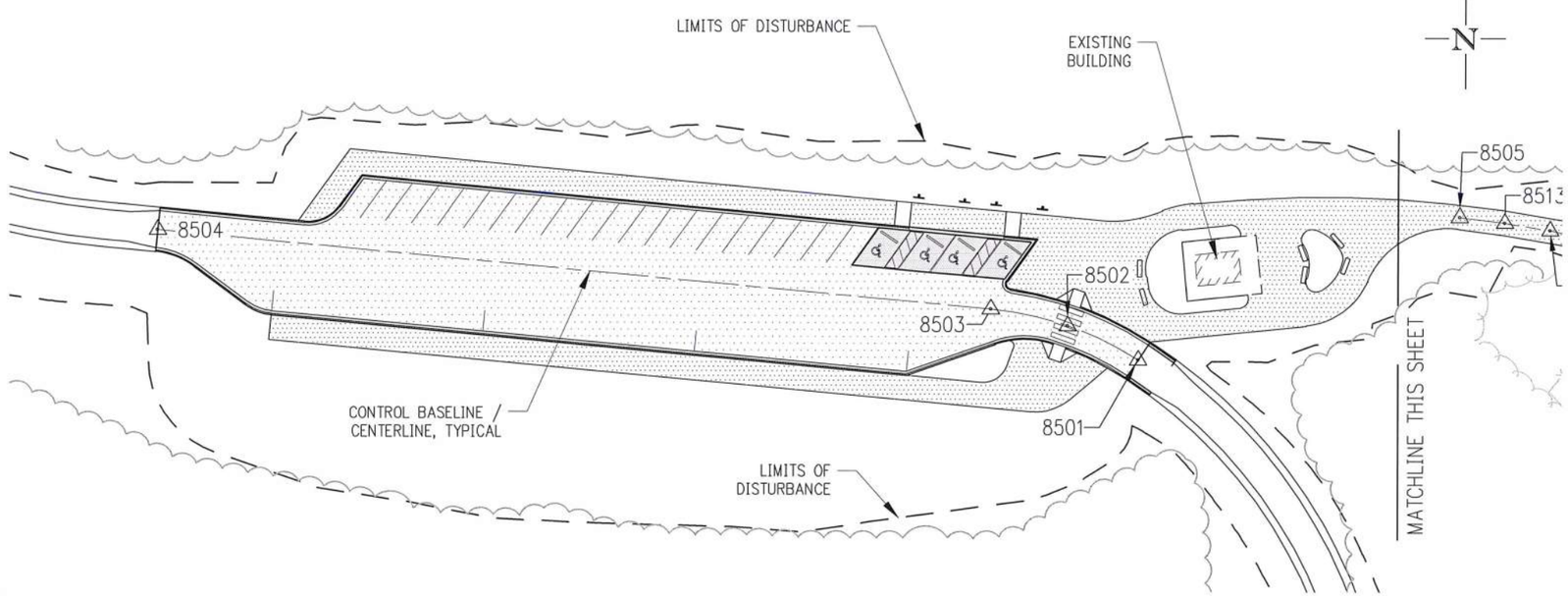
PERI 152541 DRAWING NO. 409/150019

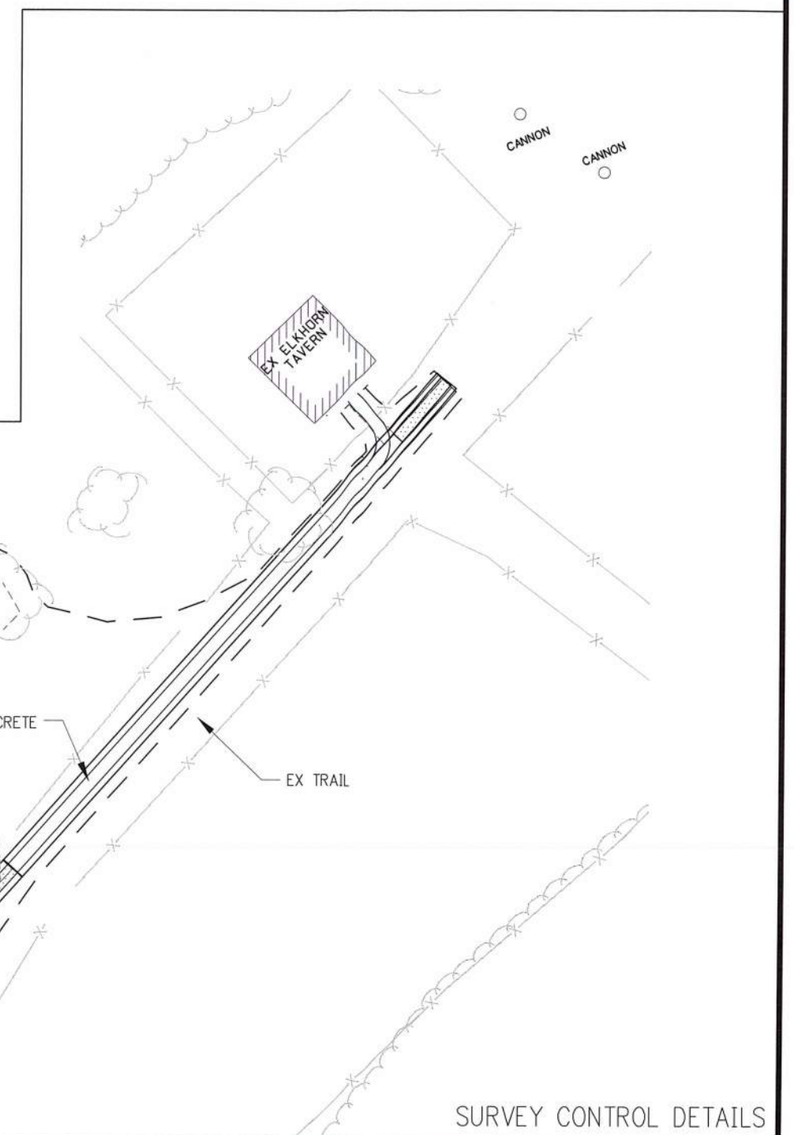
STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

GRAPHIC SCALE IN FEET

60' 0 60'

N





SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	45	151

(2) SURVEY DATA SHEETS – STAKING TABLES – SITE 3 VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

GRAPHIC SCALE IN FEET
60' 0 60'

N

VISITOR CENTER

VC HEADQUARTERS

VC HEADQUARTERS

EX FO LINE

CONTROL BASELINE / CENTERLINE, TYPICAL

LIMITS OF DISTURBANCE

PR ROADWAY

EDGE OF EX ROAD

UGTV

8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317 8318 8319 8320 8321 8322 8323 8324 8325 8326 8327 8328 8329 8330 8331 8332 8333 8334 8335 8336 8337 8338 8339 8340 8341 8342 8343 8344 8345 8346 8347 8348 8349 8350 8351 8352 8353 8354 8355 8356 8357 8358 8359 8360 8361 8362 8363 8364 8365 8366 8367 8368 8369 8370 8371 8372 8373 8374 8375 8376 8377 8378 8379 8380

SURVEY CONTROL DETAILS

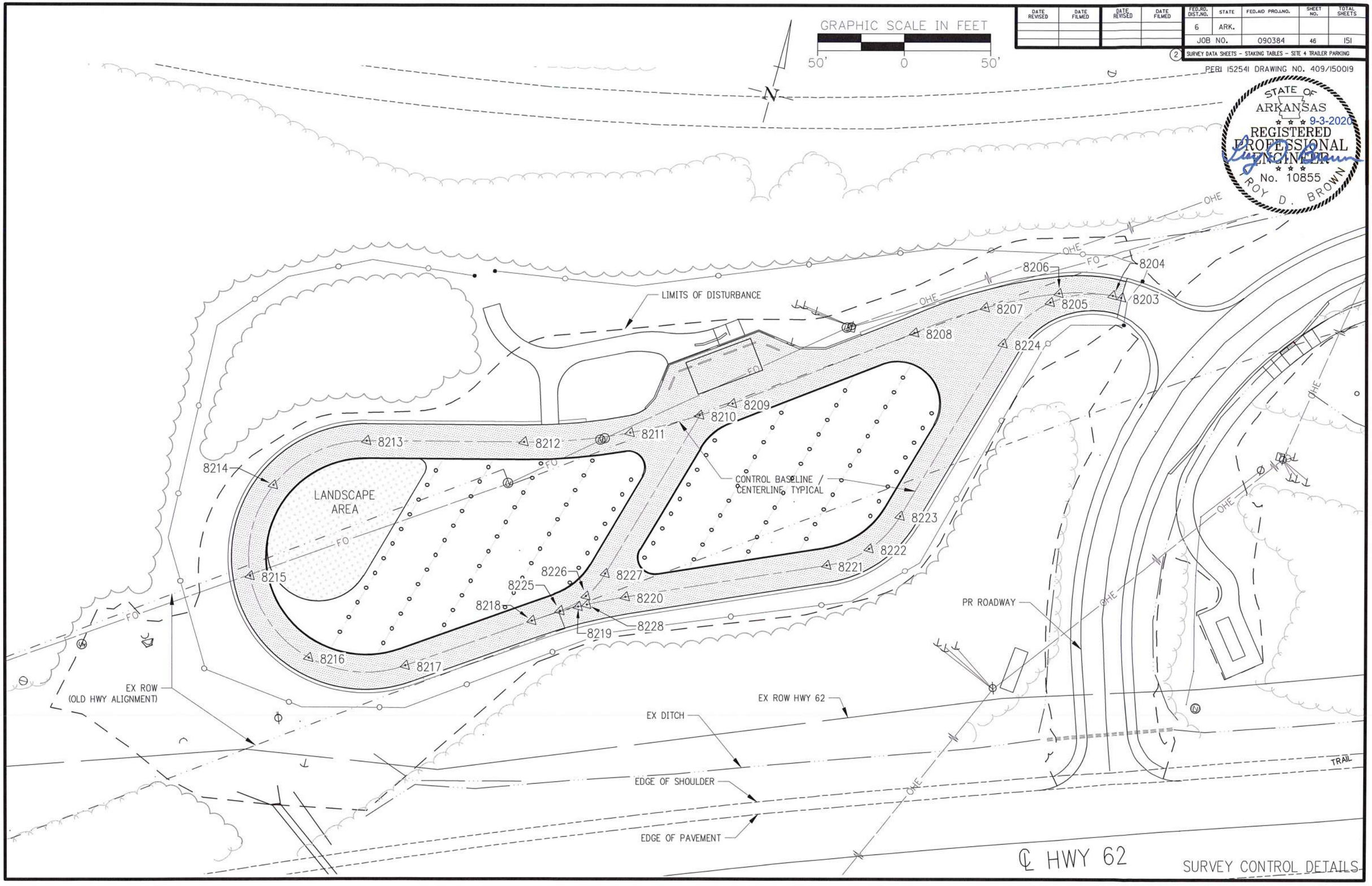
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	46	151

2 SURVEY DATA SHEETS - STAKING TABLES - SITE 4 TRAILER PARKING

PER: 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



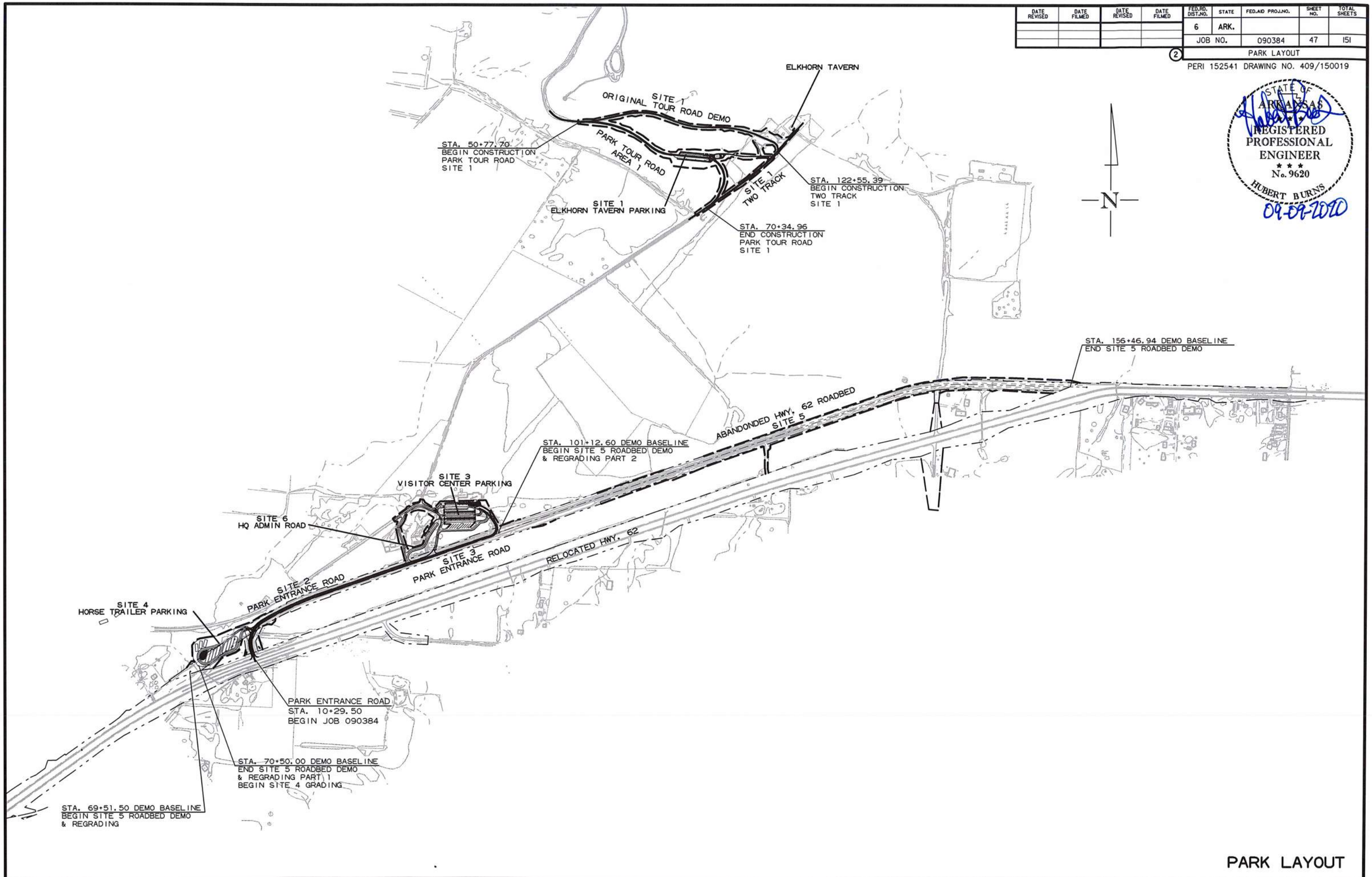
SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	47	151

2 PARK LAYOUT

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020



PARK LAYOUT

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PLOTTED: 9/8/2020 09:50 SCALE: 1:800

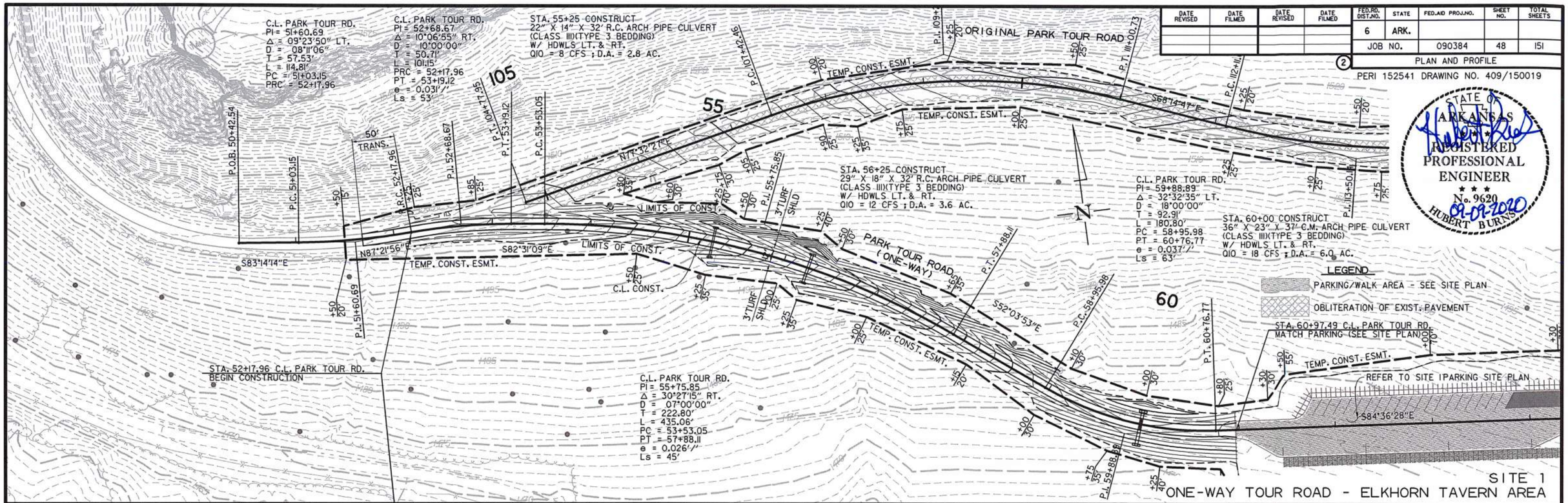
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	48	151

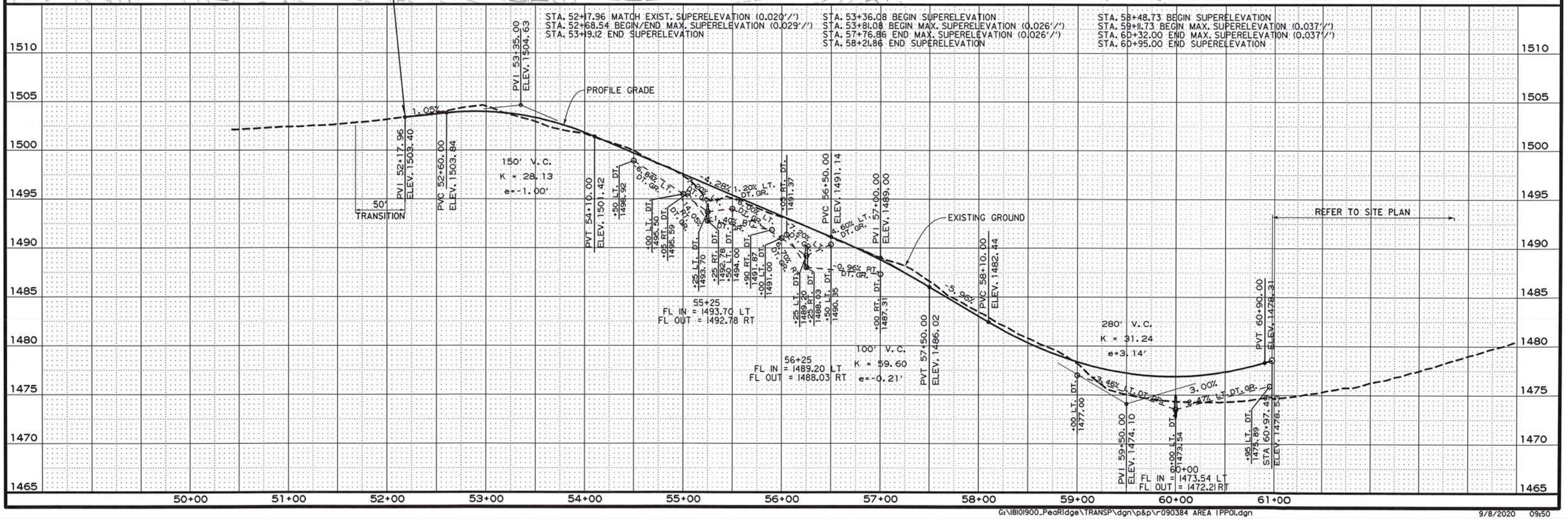
2 PLAN AND PROFILE

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 09-09-2020 HUBERT BURNS



SITE 1
ONE-WAY TOUR ROAD - ELKHORN TAVERN AREA



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MODEL: PLAN AND PROFILE SHEETS

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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.		090384	49	151

2 SITE 1 PLAN – ELKHORN TAVERN PARKING

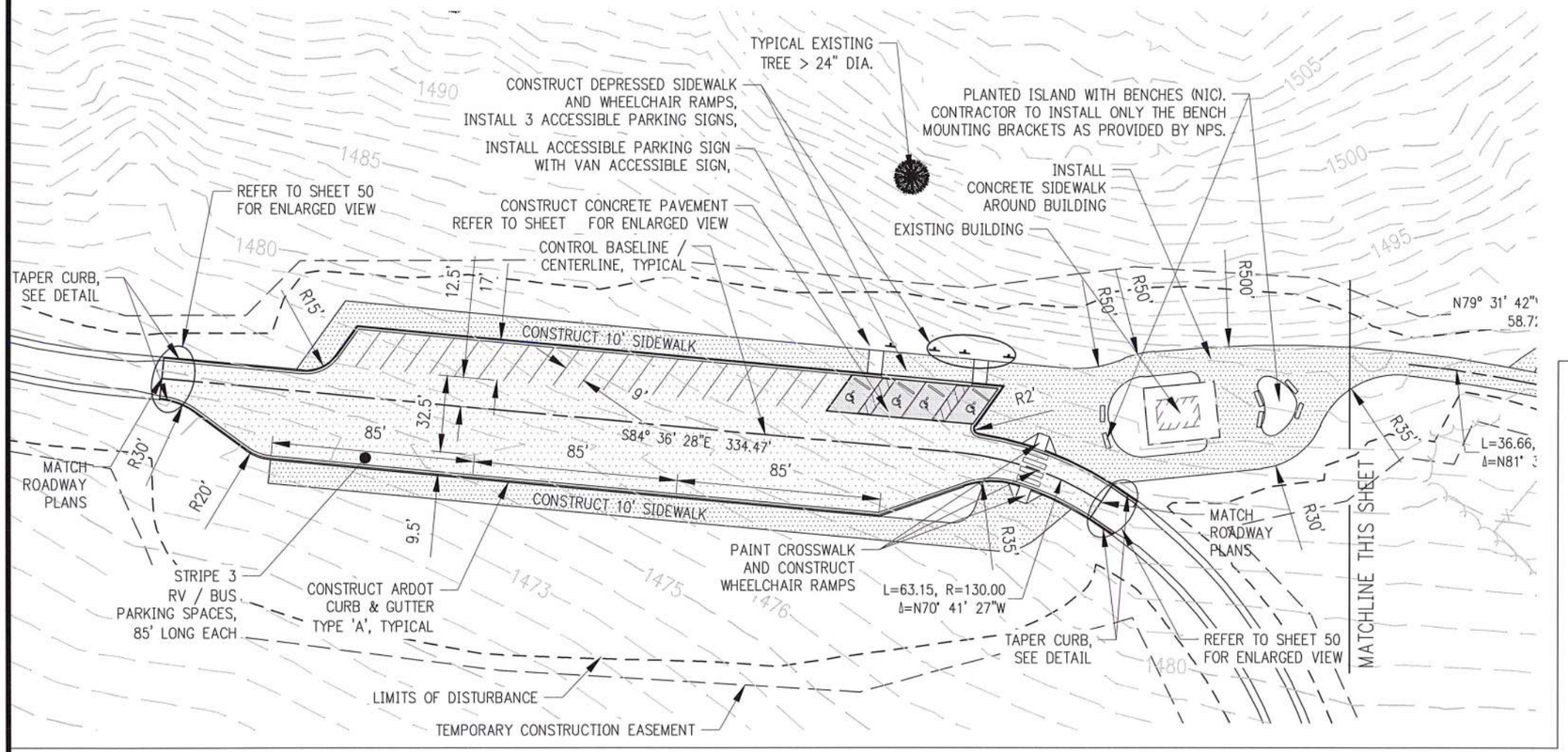
PERI 152541 DRAWING NO. 409/150019

GRAPHIC SCALE IN FEET

60' 0 60'

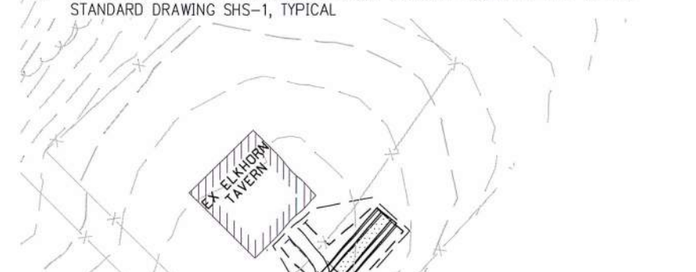
N

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

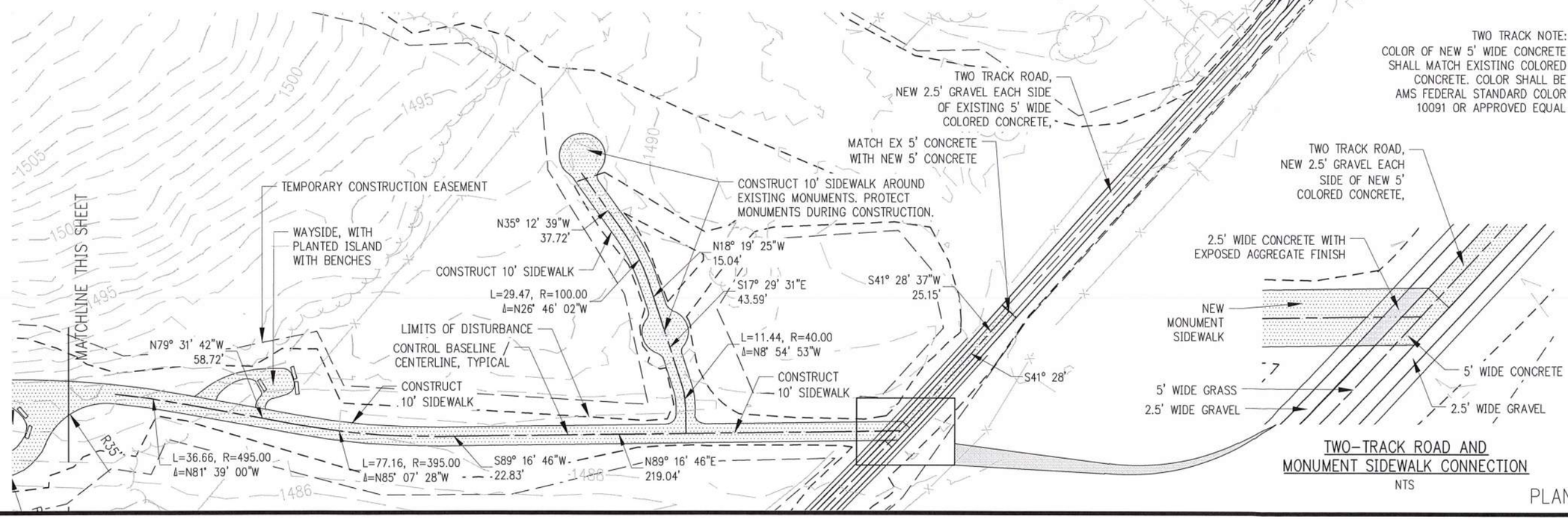


NOTES:

1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
2. WARNING DEVICES SHALL ONLY BE INSTALLED AT LOCATIONS WHERE SIDEWALK CROSSES TRAFFIC, AT CROSSWALKS.
3. ALL SIGNS SHALL BE INSTALLED ON ARDOT SUPPORT ASSEMBLY TYPE 'A' PER STANDARD DRAWING SHS-1, TYPICAL



TWO TRACK NOTE:
COLOR OF NEW 5' WIDE CONCRETE SHALL MATCH EXISTING COLORED CONCRETE. COLOR SHALL BE AMS FEDERAL STANDARD COLOR 10091 OR APPROVED EQUAL



TWO-TRACK ROAD AND MONUMENT SIDEWALK CONNECTION

NTS

PLAN

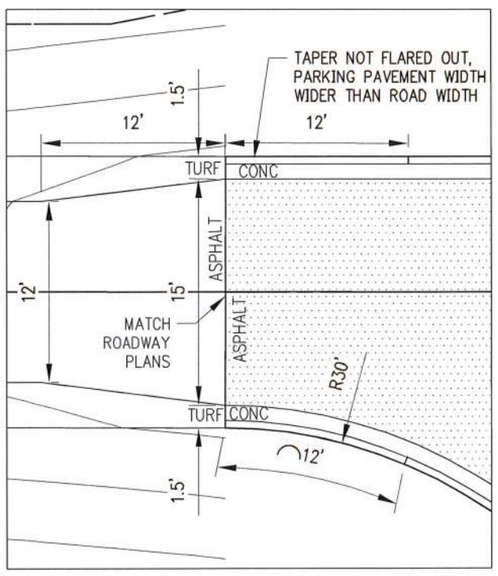
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	50	151

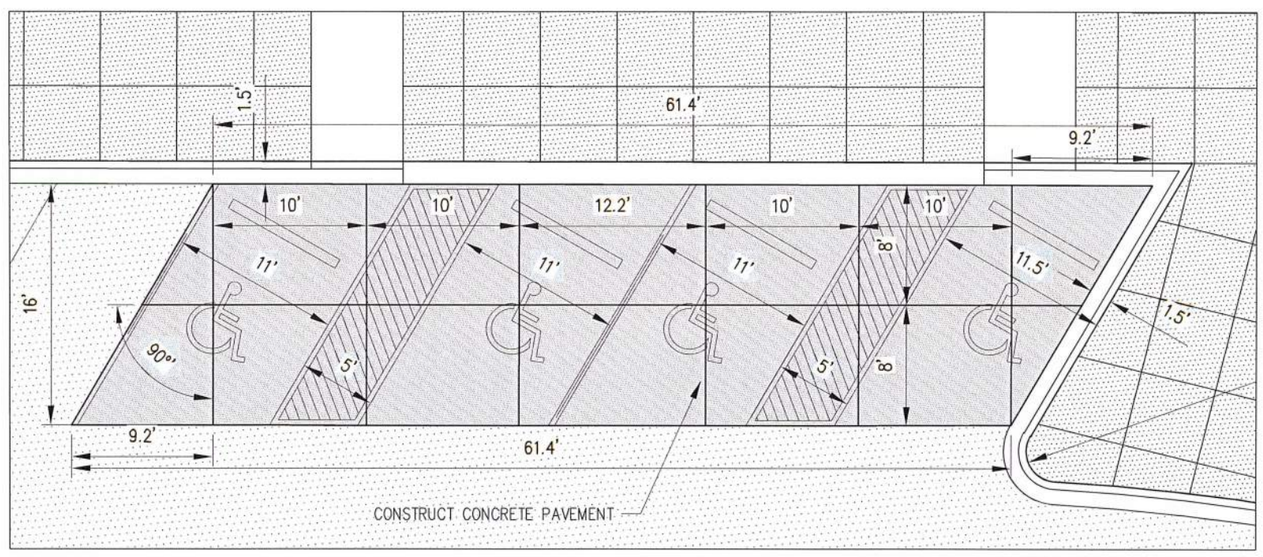
(2) SITE 1 ACCESSIBLE PARKING LAYOUT AND ROAD TAPER TRANSITIONS

PERI 152541 DRAWING NO. 409/150019

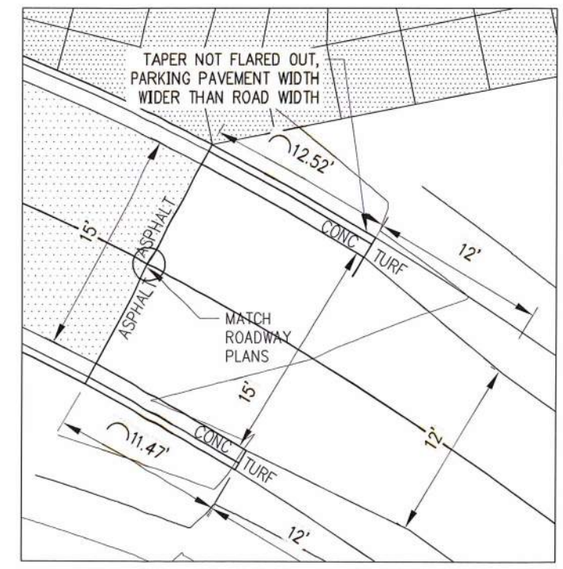
STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



ELKHORN PARKING ENTRANCE
NTS



ELKHORN ACCESSIBLE PARKING
NTS



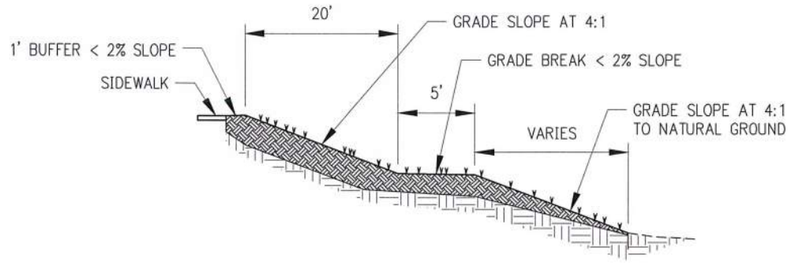
ELKHORN PARKING EXIT
NTS

PLAN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	51	151

2 SITE 1 GRADING PLAN - ELKHORN TAVERN PARKING & TRAIL

PERI 152541 DRAWING NO. 409/150019



GRAPHIC SCALE IN FEET

40' 0 40'

N

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

TEMPORARY CONSTRUCTION EASEMENT

LIMITS OF CONSTRUCTION

TC 1481.68
G 1481.18

TC 1479.01
G 1478.51

TC 1478.10

MATCH
ROADWAY PLANS

TC 1478.05

TC 1478.84
G 1478.34

SW 1488.00

SW 1487.10

TC 1487.40
G 1486.90

TC 1487.05
G 1486.55

TC 1486.55
G 1486.05

SW 1488.02

SW 1486.68

TC 1486.66
G 1486.16

-3.0%

-3.2%

-1.7%

-1.8%

20'

5' GRADE BREAK

END OF GRADE BREAK,
SLOPE AT 4:1 TO
NATURAL GROUND

1' BUFFER FROM EDGE OF SIDEWALK

20' SLOPE AT 4:1

5' WIDE GRADE BREAK

AFTER GRADE BREAK,
CONTINUE SLOPE AT 4:1
TO NATURAL GROUND

END OF GRADE BREAK,
SLOPE AT 4:1 TO
NATURAL GROUND

MATCH
ROADWAY PLANS

BLG

MATCHLINE SHEET 52

GRADING

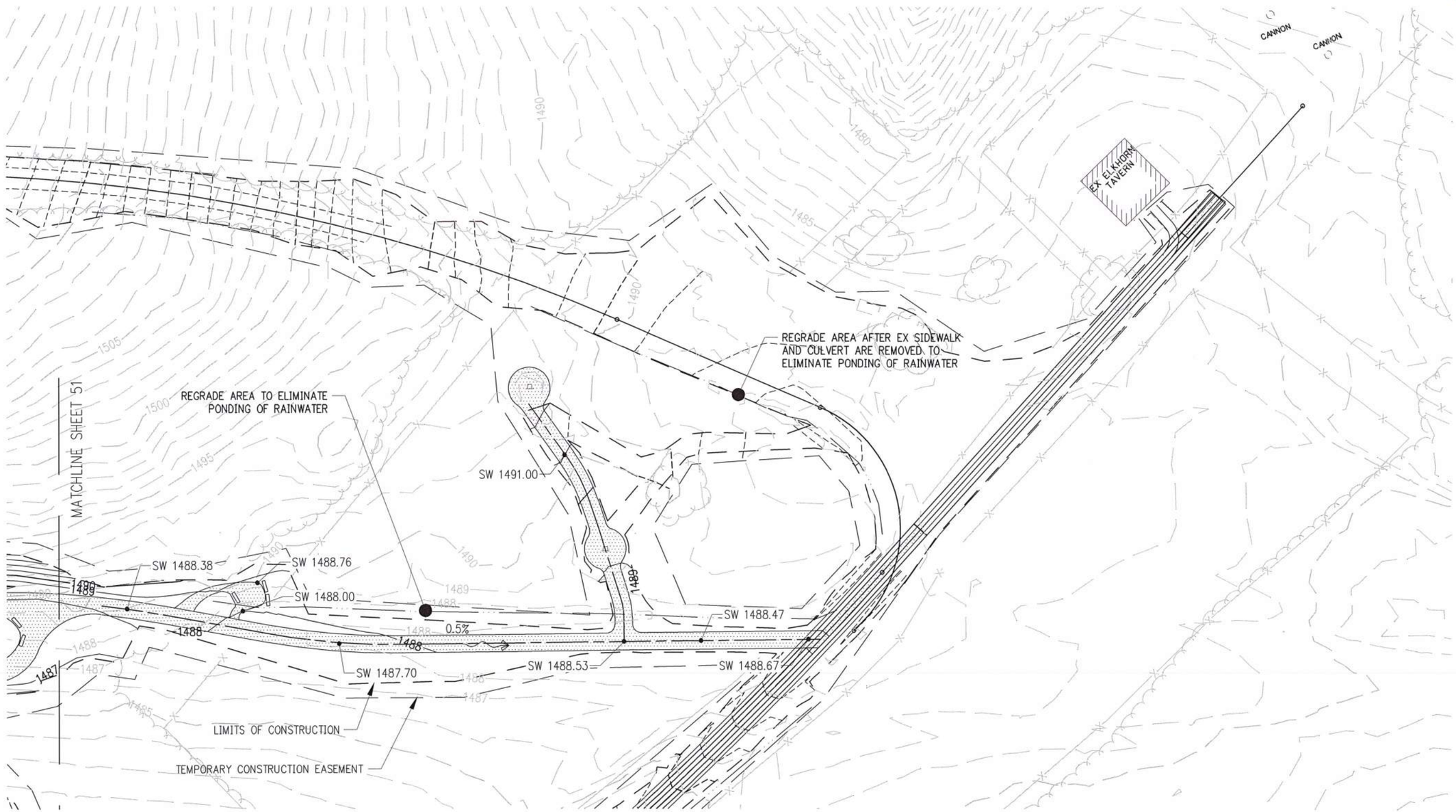
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	52	151

(2) SITE 1 GRADING PLAN – ELKHORN TAVERN PARKING & TRAIL

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



GRADING

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	53	151

(2) SITE 1 SIDEWALK AND RESTROOM PLAZA AT ELKHORN TAVERN

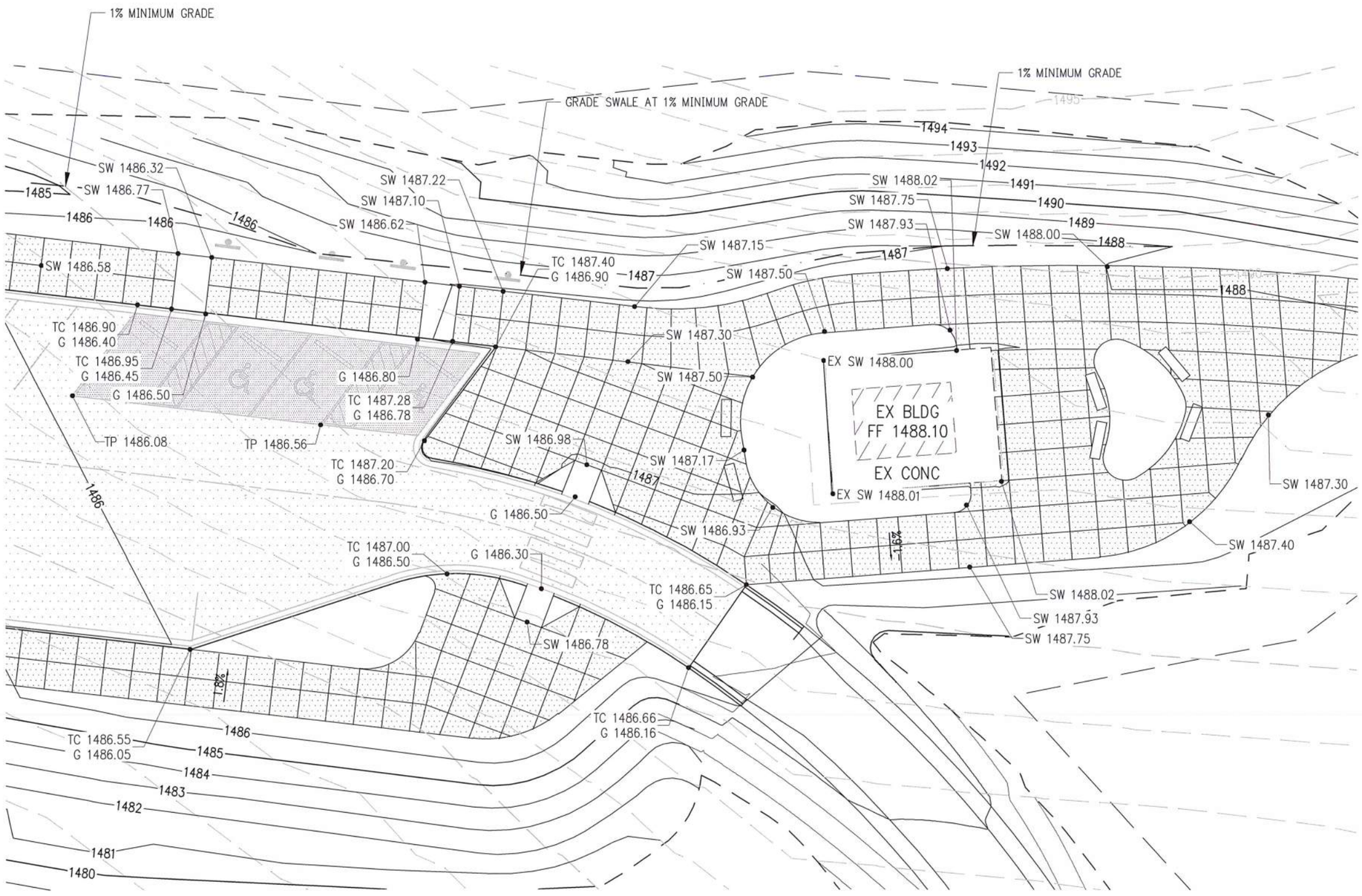
PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

N

GRAPHIC SCALE IN FEET

20' 0 20'



GRADING

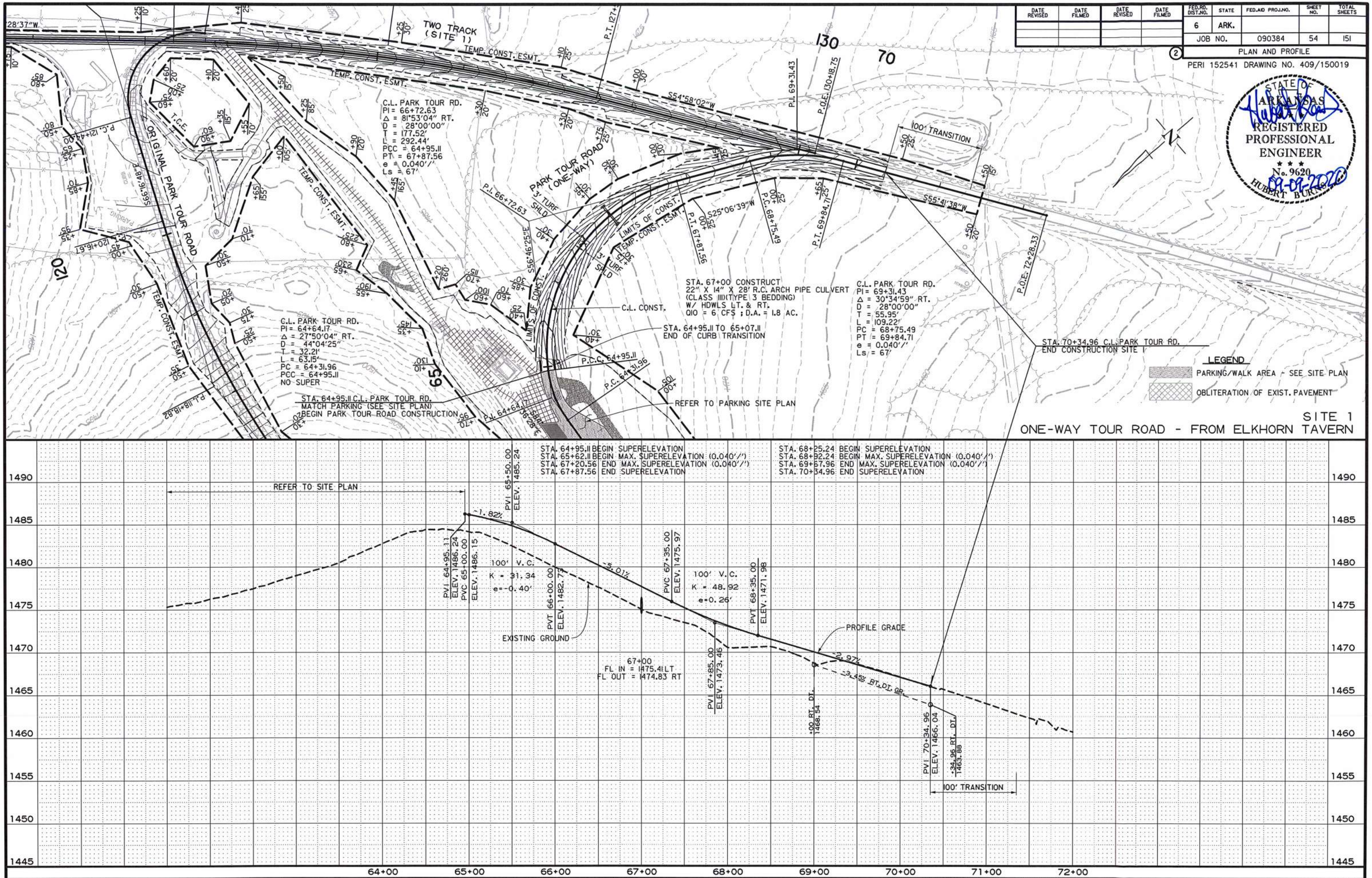
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	54	151

2 PLAN AND PROFILE

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURKS 09-09-2020



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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.		090384	55	151

2 PLAN AND PROFILE

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS 09-09-2020

C.L. TWO TRACK
PI = 122+68.28
Δ = 19°39'39" LT.
D = 77°00'00"
T = 12.89'
L = 25.53'
PC = 122+55.39
PRC = 122+80.92
NO SUPER

STA. 123+11.31 C.L. TWO TRACK
BEGIN 5'-0" COLORED CONC. WITH 2'-6" EXPOSED AGG. CONC. ON RT. & 2'-6" GRAVEL ON LT.

STA. 123+25.14 C.L. TWO TRACK
END 5'-0" COLORED CONC. WITH 2'-6" EXPOSED AGG. CONC. RT. & 2'-6" GRAVEL LT.
BEGIN 5'-0" GRASS CENTER WITH 2'-6" GRAVEL ON BOTH SIDES

C.L. TWO TRACK
PI = 125+11.62
Δ = 13°29'25" RT.
D = 02°43'42"
T = 248.37'
L = 494.44'
PRC 122+63.25
PT 127+57.70
NO SUPER

STA. 130+03.83 C.L. TWO TRACK
END CONSTRUCTION

CONST. 2'-6" GRAVEL TRACK ON BOTH SIDES OF EXIST. CONC. 5' WALKWAY
STA. 120+05.00 TO 122+30.00

STA. 122+30.00 C.L. TWO TRACK
BEGIN CONSTRUCTION
5'-0" COLORED CONC. WITH 2'-6" GRAVEL BOTH SIDES

ELKHORN TAVERN

ORIGINAL PARK TOUR ROAD SITE 1

PARK TOUR ROAD SITE 1

REFER TO SITE 1 SITE PLAN

TEMP. CONST. ESMT.
LIMITS OF CONST.
TWO TRACK
C.L. CONST.
T.C.E.
S41°28'37"W
S54°58'02"W
S55°41'38"W
S25°06'39"W
S56°46'25"E
P.O.B. 119+00.00
P.C. 122+63.25
P.T. 123+00.27
P.I. 125+11.62
P.T. 127+57.70
P.I. 69+31.43
P.O.E. 130+18.75
P.I. 66+72.63
P.C. 68+75.49
P.T. 67+87.56
P.T. 69+84.71
P.O.E. 72+28.33
P.C. 121+44.00
P.L. 122+66.91

INSET A
TWO TRACK
PARK TOUR ROAD (ONE-WAY)
3' TURF SHLD
2'-0"
5'-0"
2'-6"
12'

LEGEND
PARKING/WALK AREA - SEE SITE PLAN
OBLITERATION OF EXIST. PAVEMENT

SITE 1
TWO TRACK - ELKHORN TAVERN

CONSTRUCT 2'-6" GRAVEL TRACK ON BOTH SIDES
CONSTRUCT 2'-6" GRAVEL TRACK ON BOTH SIDES OF EXISTING CONCRETE 5' WALKWAY
CONSTRUCT 5' COLORED CONC. WITH 2'-6" GRAVEL BOTH SIDES
CONSTRUCT 5' COLORED CONC. WITH 2'-6" EXPOSED AGG. CONC. RT. & 2'-6" GRAVEL LT.
CONSTRUCT 5'-0" GRASS CENTER WITH 2'-6" GRAVEL TRACK ON BOTH SIDES

STA. 119+72.00
STA. 120+02.00
STA. 122+30.00
STA. 123+11.31
STA. 123+25.14

PVC 122+57.50 ELEV. 1488.15
PVT 122+92.50 ELEV. 1488.47
PVI 123+35.00 ELEV. 1489.00
PVI 122+30.00 ELEV. 1488.00
PVI 122+75.00 ELEV. 1488.25
PVC 123+12.50 ELEV. 1488.72
PVT 123+57.50 ELEV. 1488.12
PVI 124+75.00 ELEV. 1483.50
PVI 127+00.00 ELEV. 1476.50
PVI 130+03.83 ELEV. 1469.33

0.56%
-.25%
-3.93%
-3.11%
-2.36%
NO V.C.
35' V.C. K = 50.40 e=0.03'
45' V.C. K = 8.69 e=-0.29'
PROFILE GRADE
EXISTING GROUND

1505 1500 1495 1490 1485 1480 1475 1470 1465 1460

119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00

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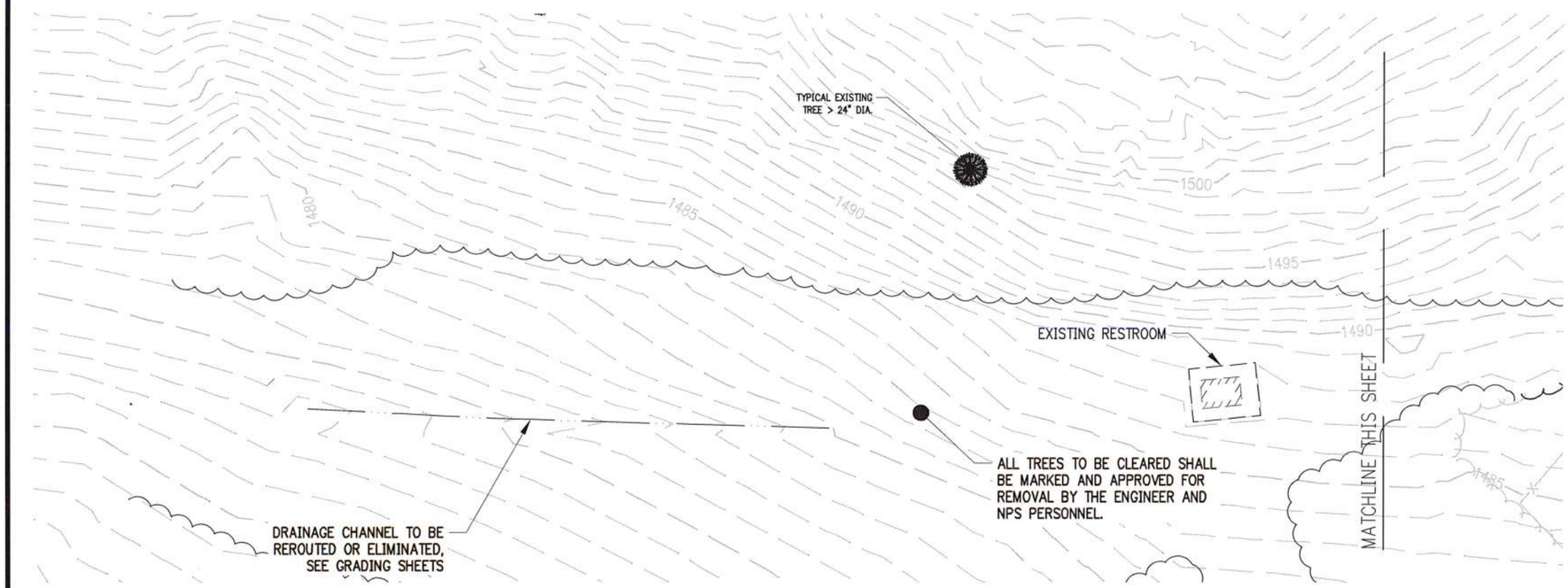
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	56	151

(2) SITE 1 DEMOLITION PLAN – ELKHORN TAVERN PARKING

PERI 152541 DRAWING NO. 409/150019

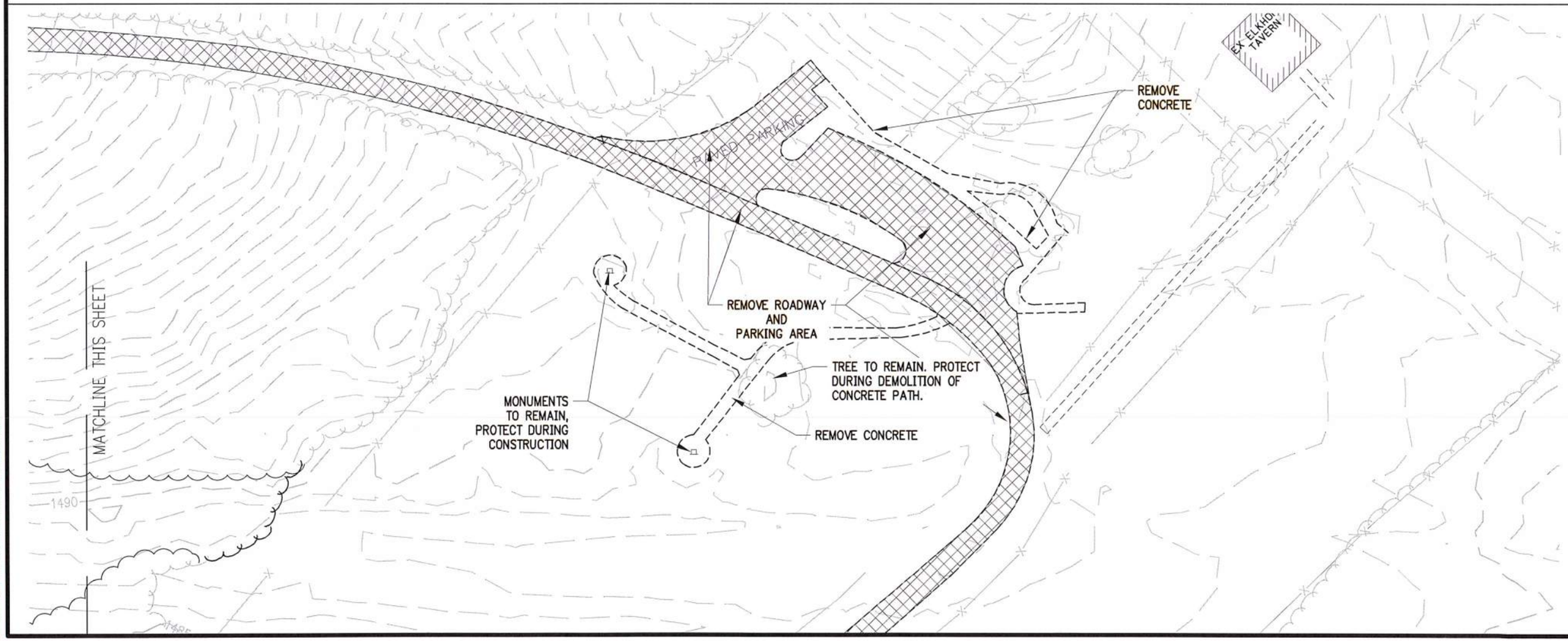
STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



GRAPHIC SCALE IN FEET

60' 0 60'

N



DEMOLITION

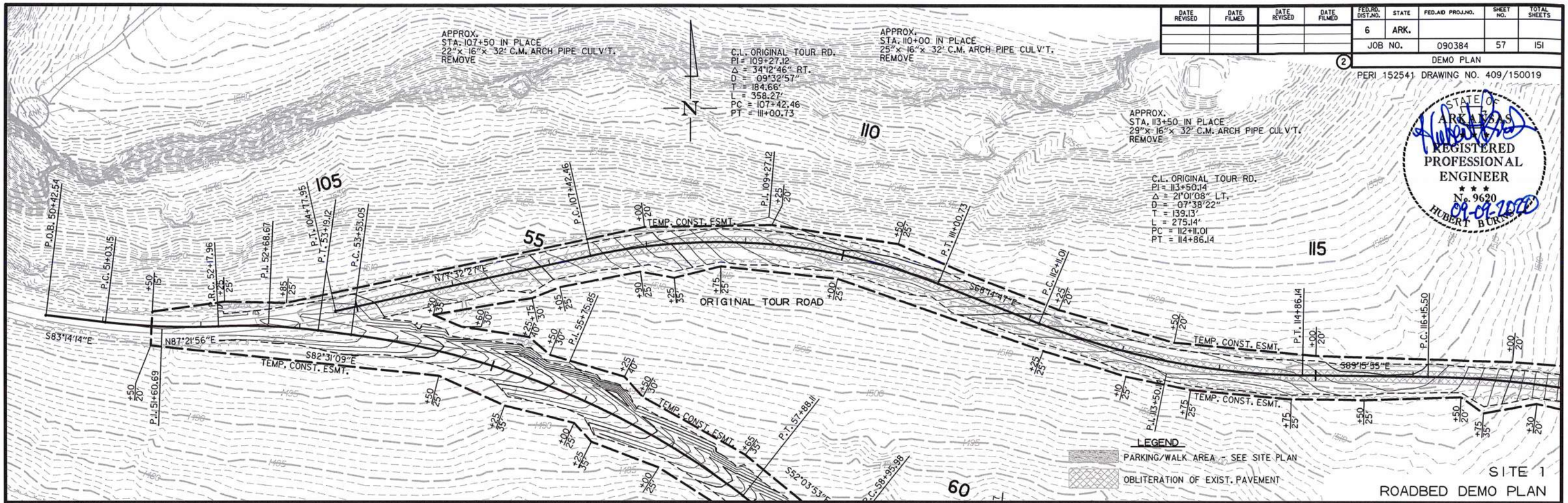
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	57	151

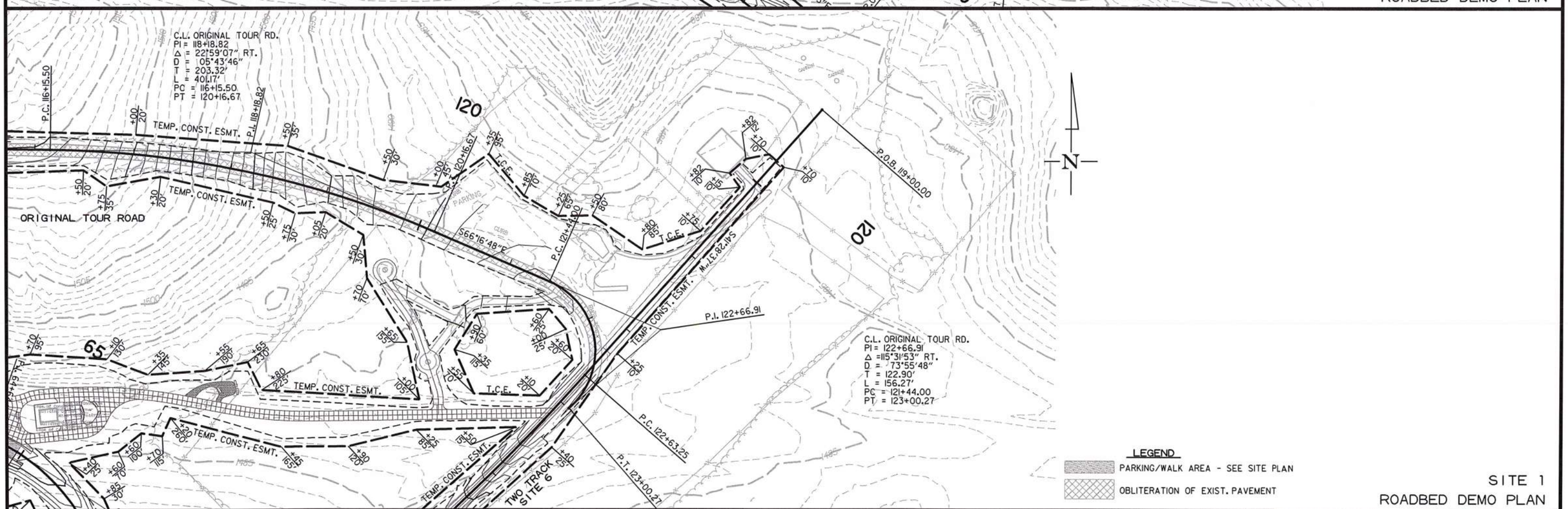
DEMO PLAN

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURTON
09-09-2020



SITE 1
ROADBED DEMO PLAN



SITE 1
ROADBED DEMO PLAN

USER: fe593
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 DEM001.dgn
PLOTTED: 9/8/2020 09:54
SCALE: 1:100

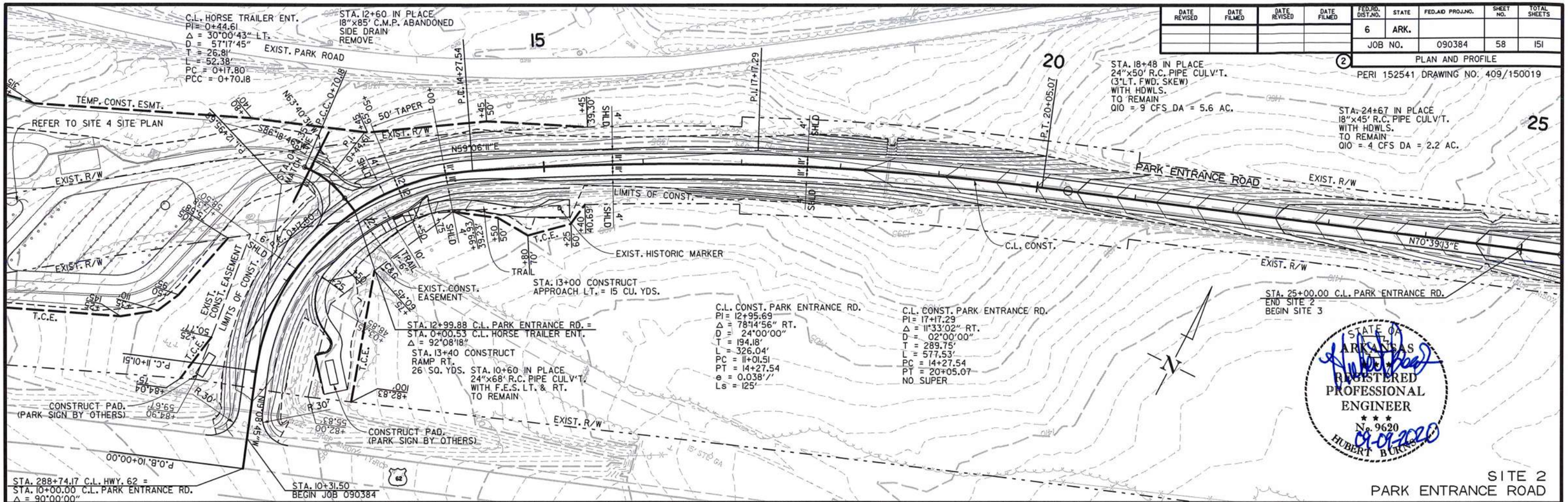
G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 DEM001.dgn 9/8/2020 09:54

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

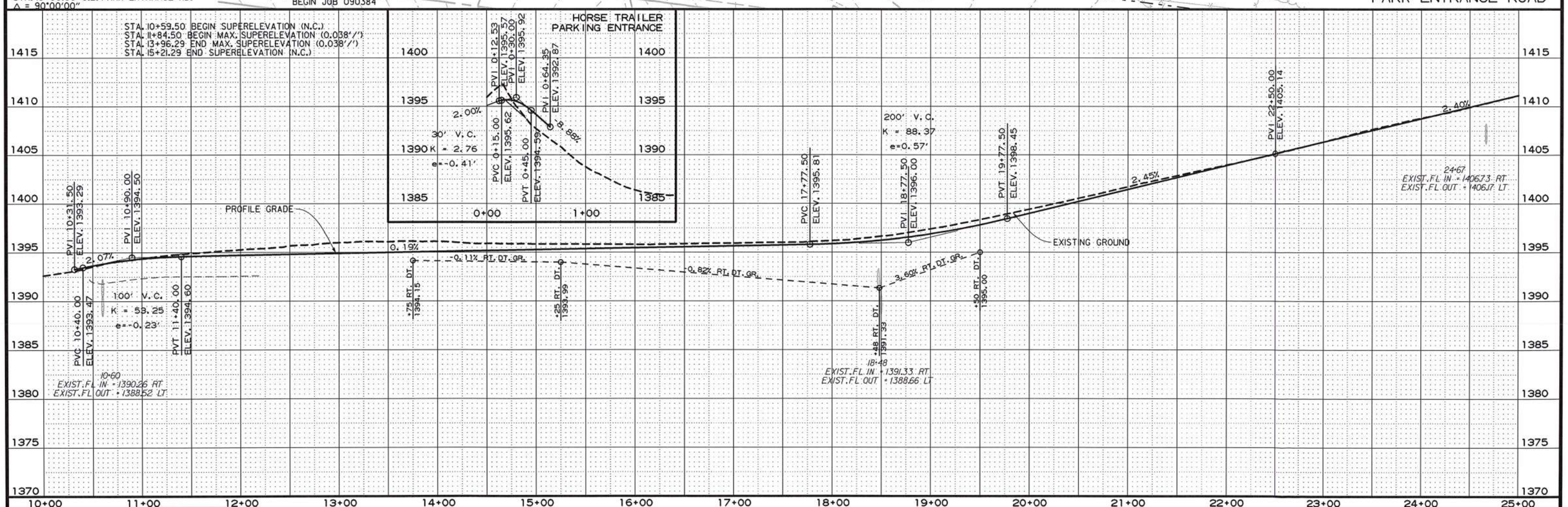
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	58	151

② PLAN AND PROFILE

PERI 152541 DRAWING NO. 409/150019



SITE 2
PARK ENTRANCE ROAD



USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 AREA 2 PP01.dgn
PLOTTED: 9/8/2020 09:54
SCALE: 1:100
MODEL: PLAN AND PROFILE SHEETS

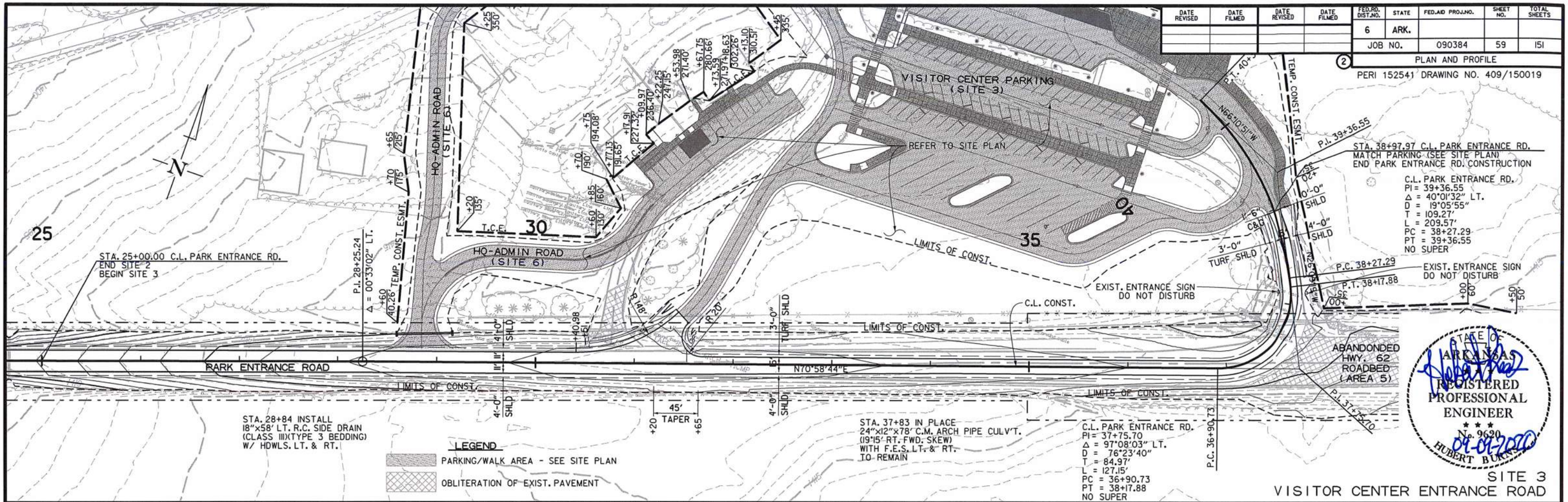
G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 AREA 2 PP01.dgn 9/8/2020 09:54

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

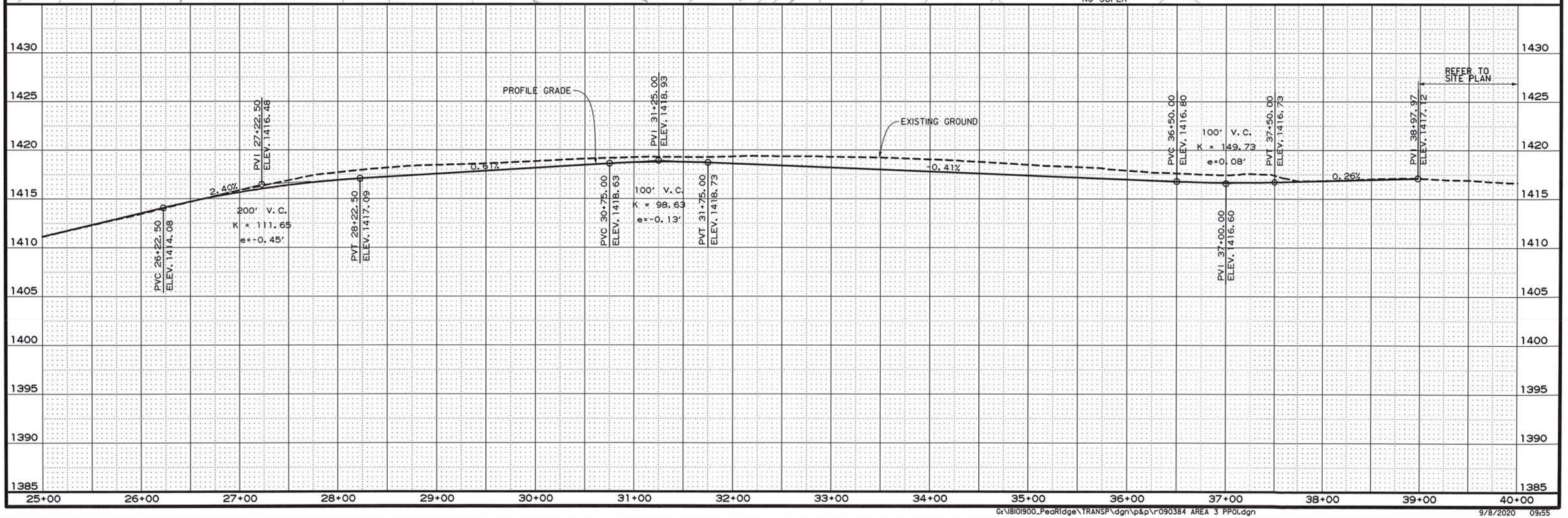
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	59	151

2 PLAN AND PROFILE

PERI 152541 DRAWING NO. 409/150019



SITE 3
VISITOR CENTER ENTRANCE ROAD



USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 AREA 3 PP01.dgn
PLOTTED: 9/8/2020 09:55
SCALE: 1:100
MODEL: PLAN AND PROFILE SHEETS

G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 AREA 3 PP01.dgn 9/8/2020 09:55

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

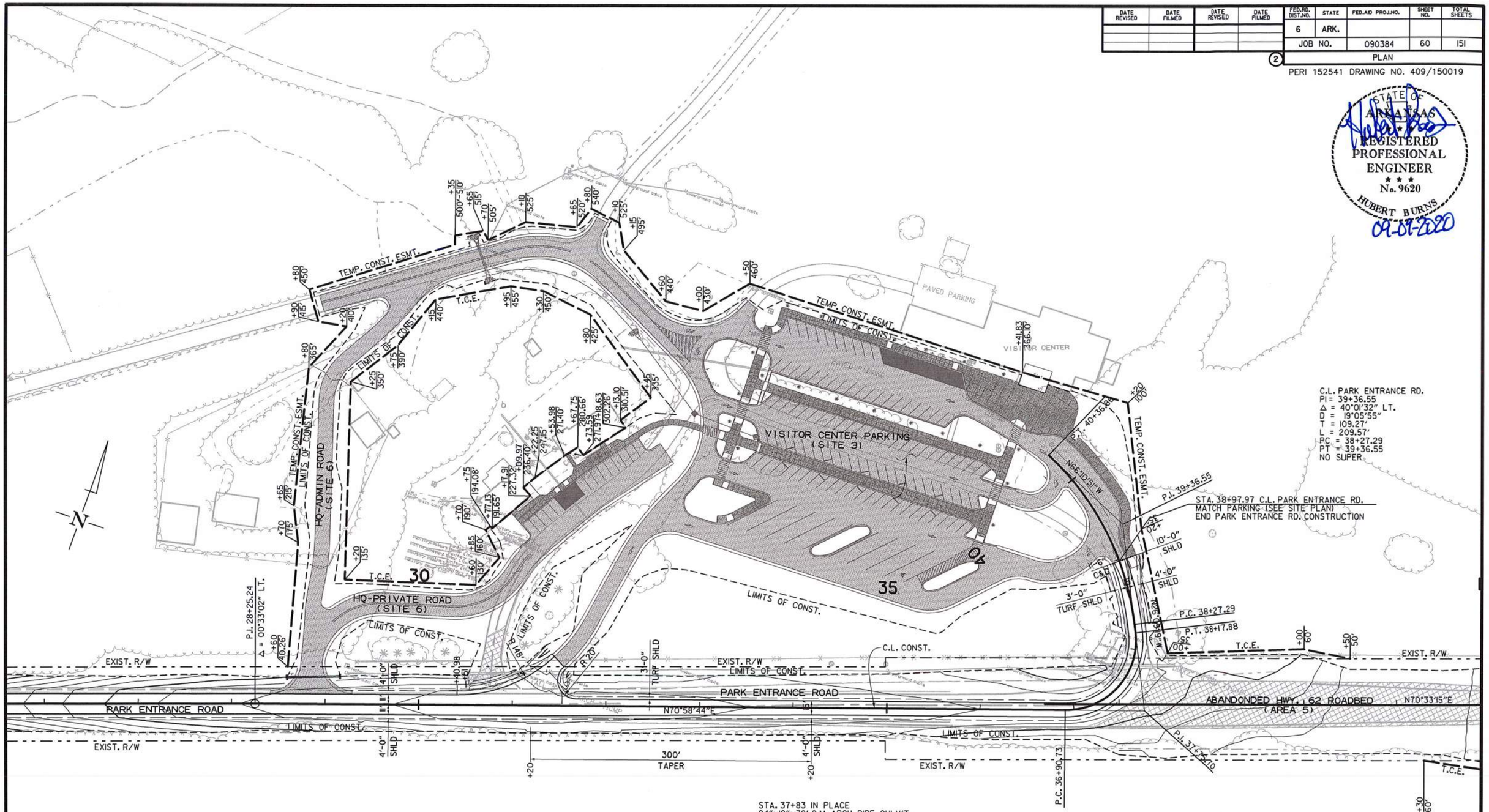
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	60	151

2 PLAN

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURNS

09-07-2020



C.L. PARK ENTRANCE RD.
PI = 39+36.55
Δ = 40°01'32" LT.
D = 19°05'55"
T = 109.27'
L = 209.57'
PC = 38+27.29
PT = 39+36.55
NO SUPER

STA. 28+84 INSTALL
18"x58' LT. R.C. SIDE DRAIN
(CLASS III)(TYPE 3 BEDDING)
W/ HDWLS. LT. & RT.

STA. 37+83 IN PLACE
24"x12"x78' C.M. ARCH PIPE CULV'T.
(19°15' RT. FWD. SKEW)
WITH F.E.S. LT. & RT.
TO REMAIN

C.L. PARK ENTRANCE RD.
PI = 37+75.70
Δ = 97°08'03" LT.
D = 76°23'40"
T = 84.97'
L = 127.15'
PC = 36+90.73
PT = 38+17.88
NO SUPER

LEGEND

PARKING/WALK AREA - SEE SITE PLAN

OBLITERATION OF EXIST. PAVEMENT

SITE 3
VISITOR CENTER PROPOSED EASEMENT PLAN

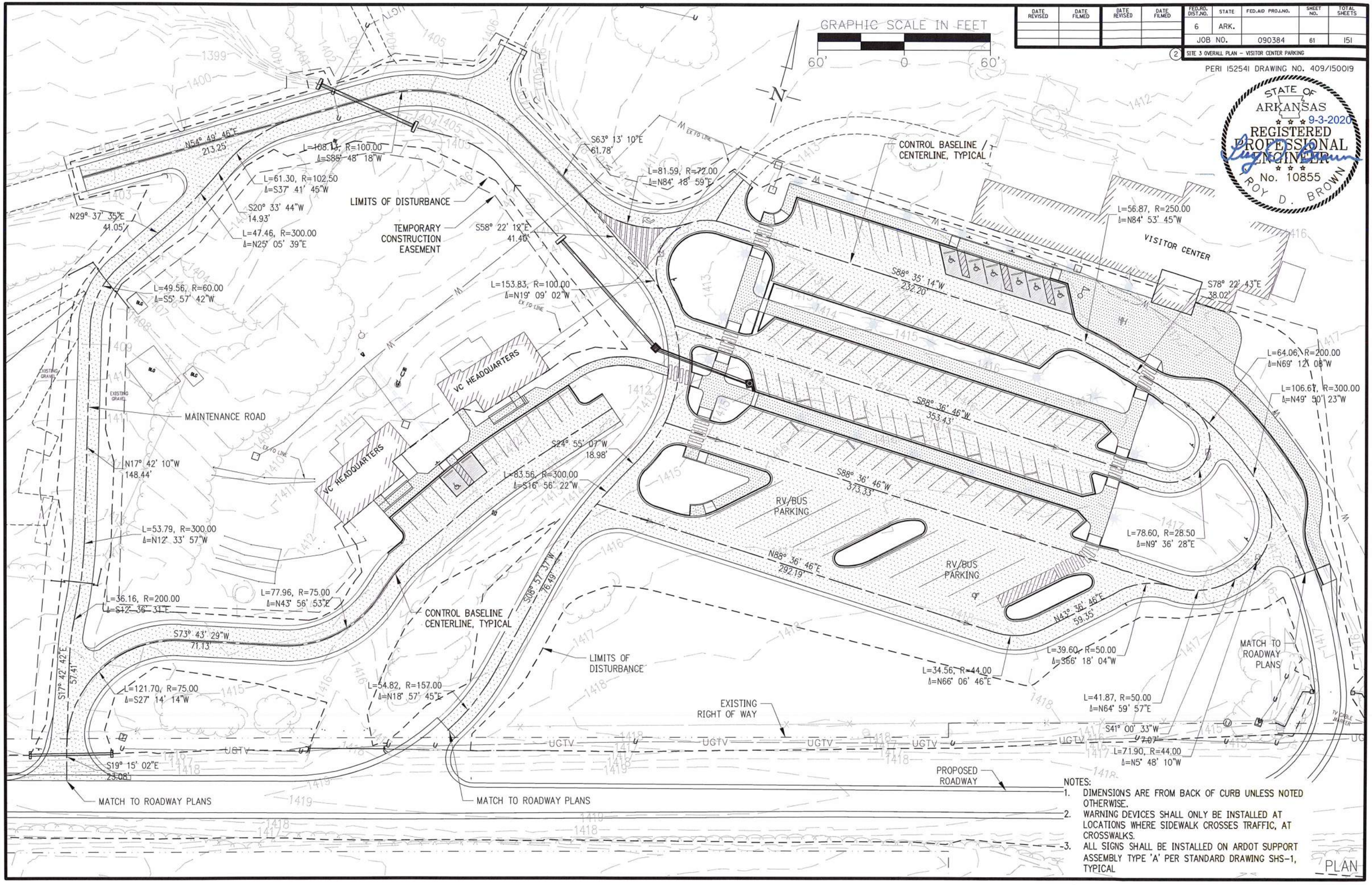
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	61	151

(2) SITE 3 OVERALL PLAN – VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



NOTES:

1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
2. WARNING DEVICES SHALL ONLY BE INSTALLED AT LOCATIONS WHERE SIDEWALK CROSSES TRAFFIC, AT CROSSWALKS.
3. ALL SIGNS SHALL BE INSTALLED ON ARDOT SUPPORT ASSEMBLY TYPE 'A' PER STANDARD DRAWING SHS-1, TYPICAL

PLAN

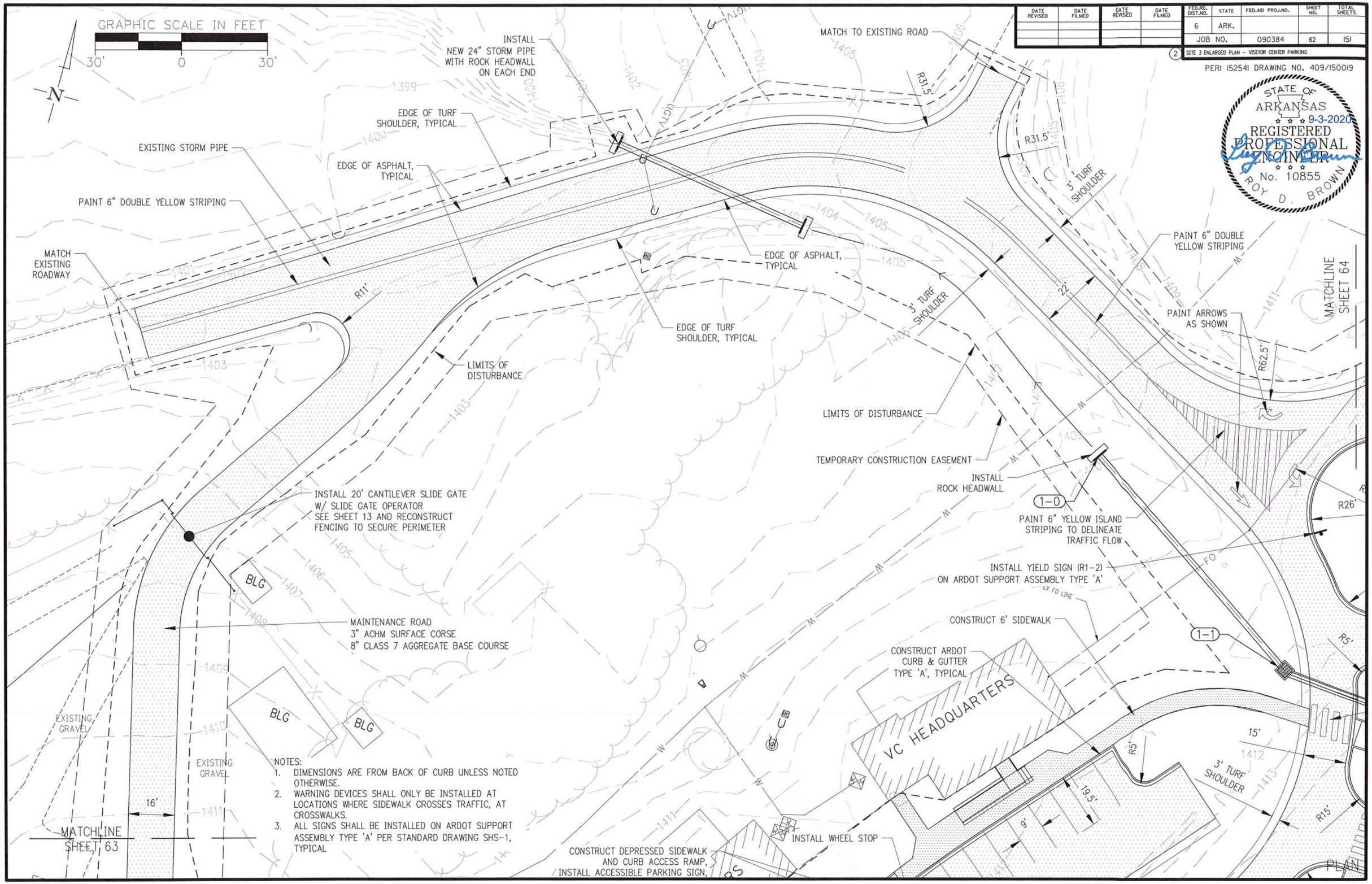
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	62	151

(2) SITE 3 ENLARGED PLAN – VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



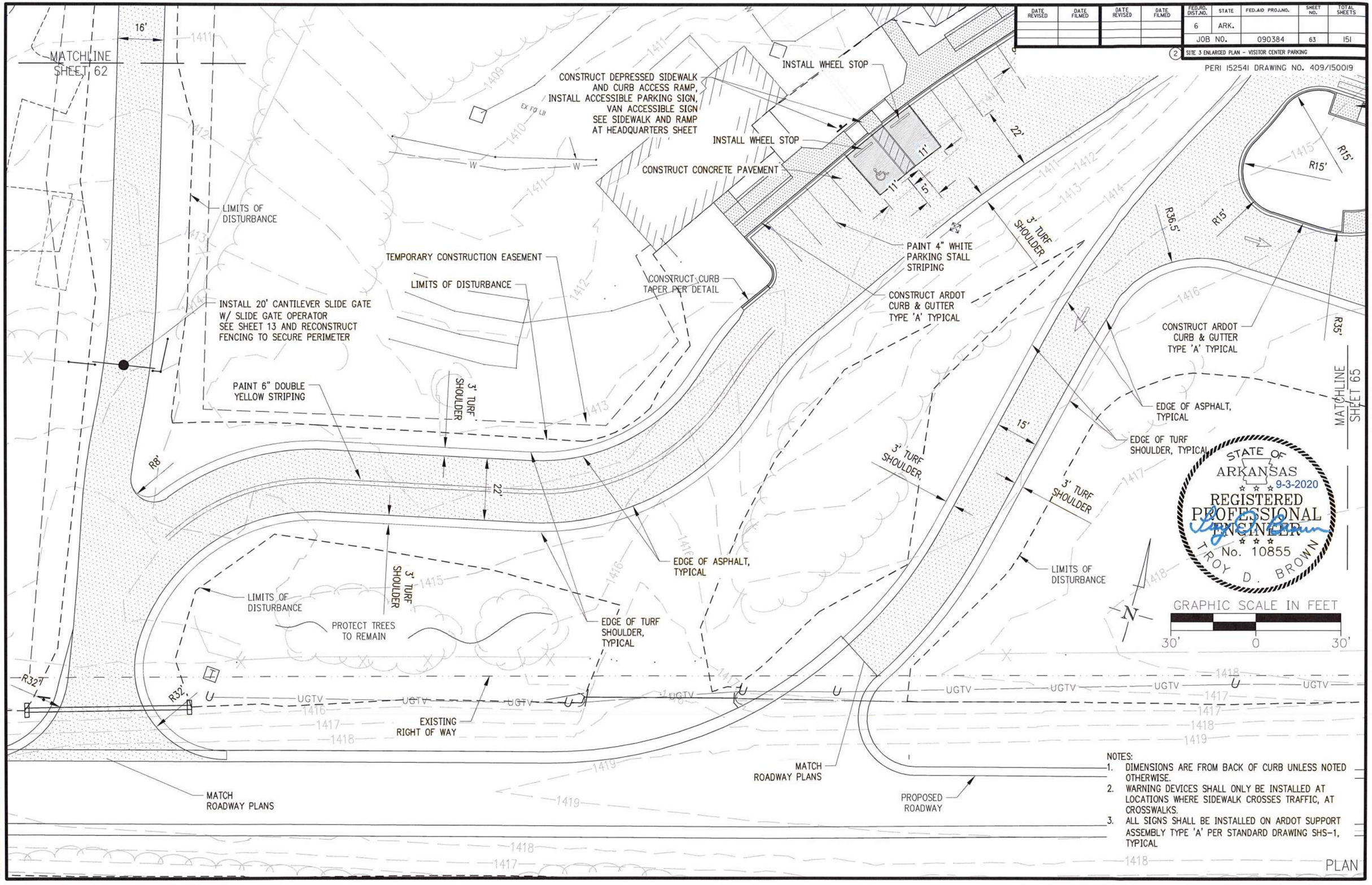
NOTES:
1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
2. WARNING DEVICES SHALL ONLY BE INSTALLED AT LOCATIONS WHERE SIDEWALK CROSSES TRAFFIC, AT CROSSWALKS.
3. ALL SIGNS SHALL BE INSTALLED ON ARDOT SUPPORT ASSEMBLY TYPE 'A' PER STANDARD DRAWING SHS-1, TYPICAL

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	63	151

(2) SITE 3 ENLARGED PLAN - VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019



NOTES:

1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
2. WARNING DEVICES SHALL ONLY BE INSTALLED AT LOCATIONS WHERE SIDEWALK CROSSES TRAFFIC, AT CROSSWALKS.
3. ALL SIGNS SHALL BE INSTALLED ON ARDOT SUPPORT ASSEMBLY TYPE 'A' PER STANDARD DRAWING SHS-1, TYPICAL

PLAN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	64	151

(2) SITE 3 ENLARGED PLAN - VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

NOTES:
1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
2. WARNING DEVICES SHALL ONLY BE INSTALLED AT LOCATIONS WHERE SIDEWALK CROSSES TRAFFIC, AT CROSSWALKS.
3. ALL SIGNS SHALL BE INSTALLED ON ARDOT SUPPORT ASSEMBLY TYPE 'A' PER STANDARD DRAWING SHS-1, TYPICAL
4. ALL LOCATIONS WITHOUT PULL BOXES SHALL BE STUB (CAPPED) ABOVE GROUND FOR FUTURE ACCESS.

UGC-2" UGC-2" UNDERGROUND CONDUIT - ELECTRICAL

UGC-1" UGC-1" UNDERGROUND CONDUIT - CCTV

STANDARD PULL BOX ARDOT DRAWING SD-6 TYPE 1

HEAVY DUTY PULL BOX ARDOT DRAWING SD-6 TYPE 2

STATE OF ARKANSAS 9-3-2020 REGISTERED PROFESSIONAL ENGINEER No. 10855 ROY D. BROWN

GRAPHIC SCALE IN FEET 30' 0 30'

MATCHLINE SHEET 62

MATCH NEW ROAD TO EXISTING ROAD

LIGHTS AND RELATED UGE LINES, BY OTHERS. NOT IN THIS CONTRACT.

CONSTRUCT 7.5' SIDEWALK

INSTALL ACCESSIBLE PARKING SIGN WITH VAN ACCESSIBLE SIGN,

TEMPORARY CONSTRUCTION EASEMENT

LIMITS OF DISTURBANCE

WHEEL STOPS, TYPICAL (6)

CONSTRUCT CONCRETE PAVEMENT

CONSTRUCT DEPRESSED SIDEWALK AND CURB ACCESS RAMP, INSTALL 5 ACCESSIBLE PARKING SIGNS

PAINT ACCESSIBLE PARKING SPACES AS PER DETAIL

MATCH EXISTING SIDEWALK

PAINT CROSSWALK AND CONSTRUCT WHEELCHAIR RAMPS

MATCH EXISTING PARKING LOT WIDTH

CONSTRUCT ARDOT CURB & GUTTER TYPE 'A', TYPICAL

CONSTRUCT 3' WIDE DRAINAGE FLUME AND SIDEWALK UNDERDRAIN

PAINT ARROWS AS SHOWN, TYPICAL

LIMITS OF DISTURBANCE

CONSTRUCT ARDOT TYPE 'A' CURB & GUTTER

PAINT CROSSWALK AND CONSTRUCT WHEELCHAIR RAMPS

CONSTRUCT 10' SIDEWALK

PAINT 6" WHITE STRIPE

CONSTRUCT 3' WIDE SIDEWALK UNDERDRAIN

CONSTRUCT ARDOT CURB & GUTTER TYPE 'A', TYPICAL

CONSTRUCT 10' SIDEWALK

TYP. CURB TAPER, SEE DETAIL

MATCHLINE SHEET 65

PAINT PARKING SPACES WITH 4" WHITE PAINT, TYPICAL

CONSTRUCT ARDOT CURB & GUTTER, TYPE 'A' TYPICAL

INSTALL YIELD SIGN (R1-2) ON ARDOT SUPPORT ASSEMBLY TYPE 'A'

PAINT CROSSWALK AND CONSTRUCT WHEELCHAIR RAMPS

PAINT PARKING SPACES

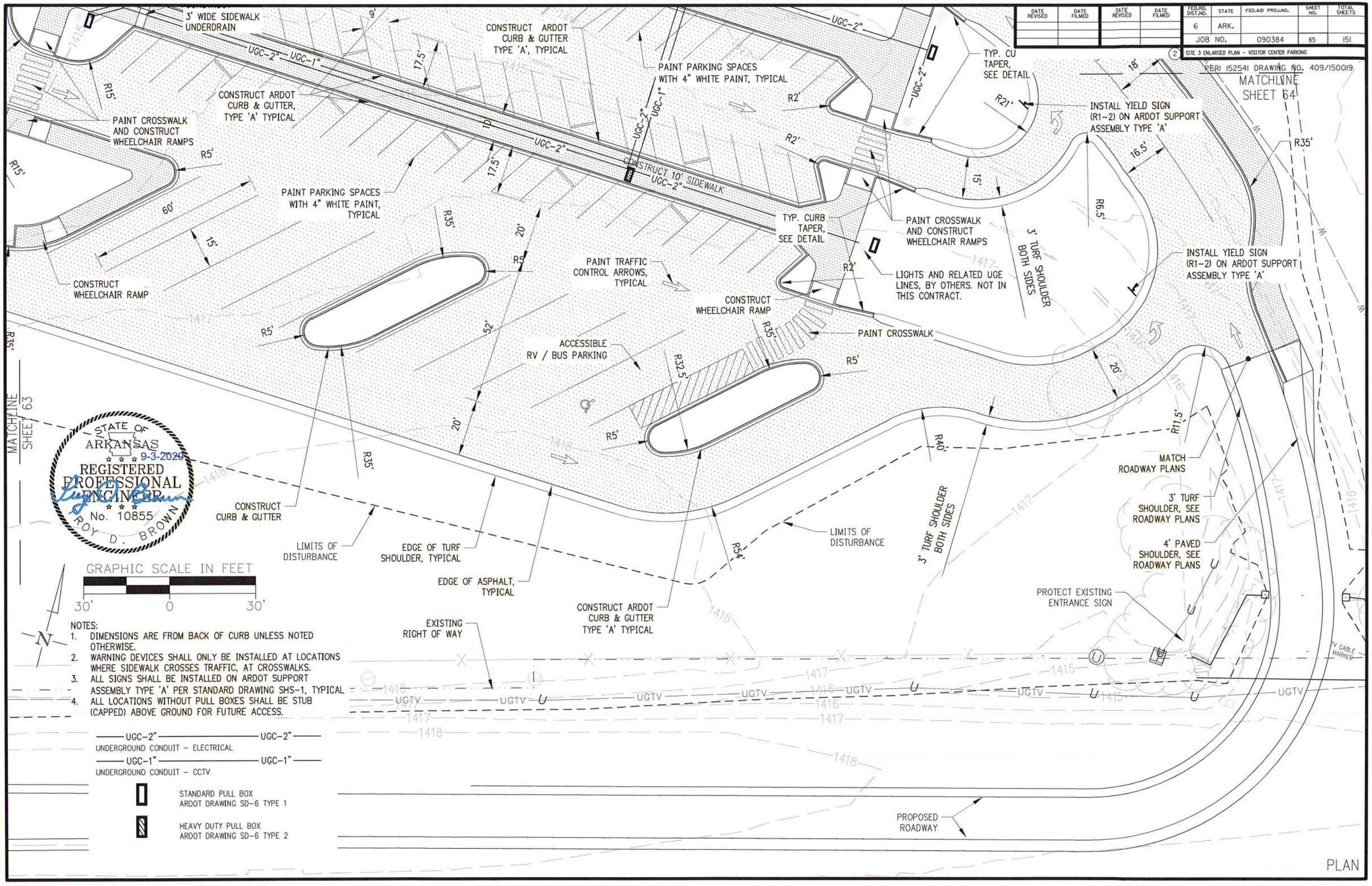
PLAN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	65	151

2 SITE 3 ENLARGED PLAN - VISITOR CENTER PARKING

RERI 152541 DRAWING NO. 409/150019



NOTES:

1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
2. WARNING DEVICES SHALL ONLY BE INSTALLED AT LOCATIONS WHERE SIDEWALK CROSSES TRAFFIC, AT CROSSWALKS.
3. ALL SIGNS SHALL BE INSTALLED ON ARDOT SUPPORT ASSEMBLY TYPE 'A' PER STANDARD DRAWING SHS-1, TYPICAL
4. ALL LOCATIONS WITHOUT PULL BOXES SHALL BE STUB (CAPPED) ABOVE GROUND FOR FUTURE ACCESS.

UGC-2" UGC-2"
UNDERGROUND CONDUIT - ELECTRICAL

UGC-1" UGC-1"
UNDERGROUND CONDUIT - CCTV

STANDARD PULL BOX
ARDOT DRAWING SD-6 TYPE 1

HEAVY DUTY PULL BOX
ARDOT DRAWING SD-6 TYPE 2

PLAN

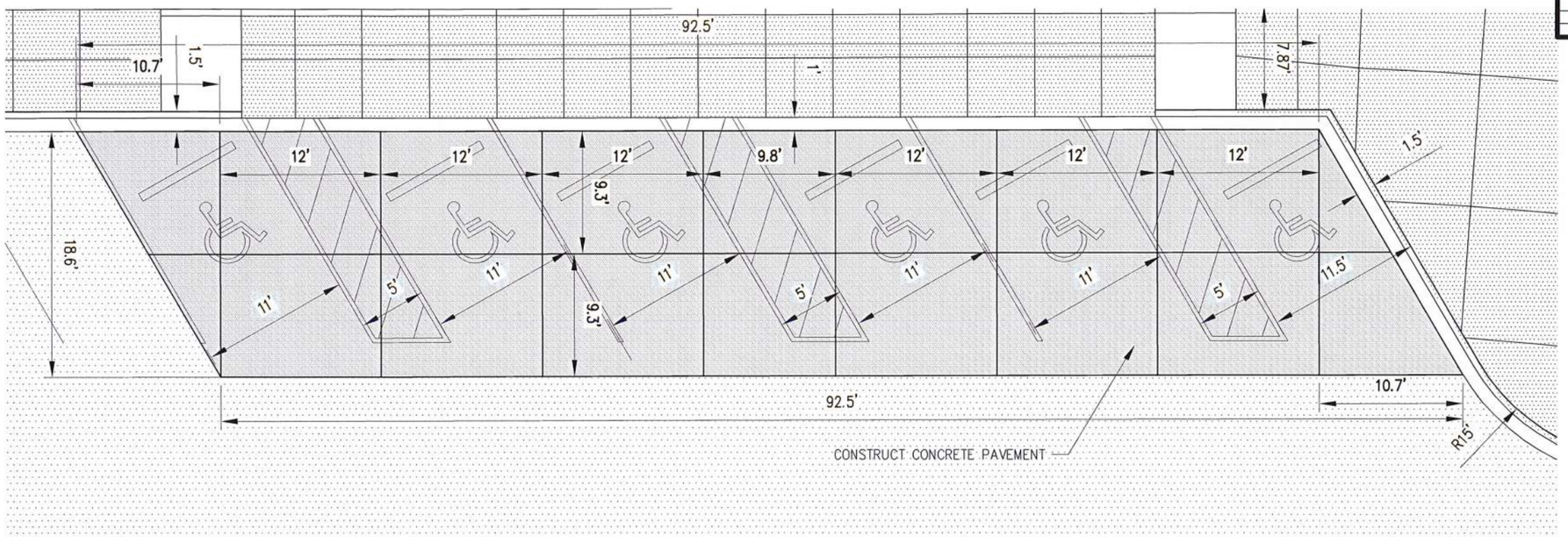
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	66	151

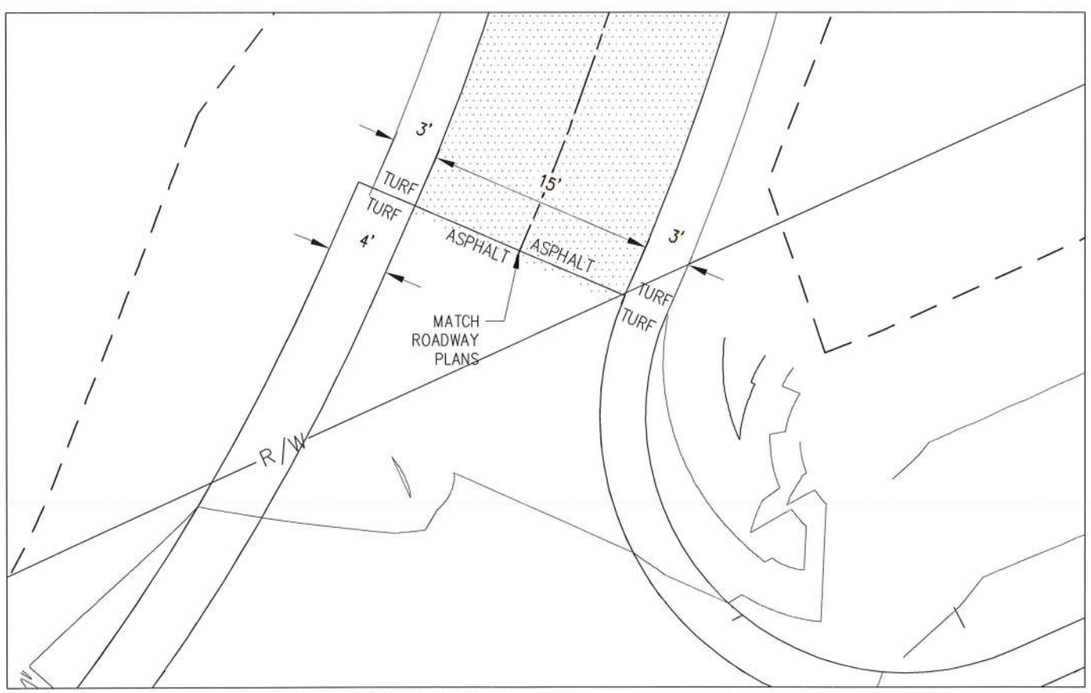
(2) SITE 3 ACCESSIBLE PARKING LAYOUT AND ROAD TAPER TRANSITIONS

PERI 152541 DRAWING NO. 409/150019

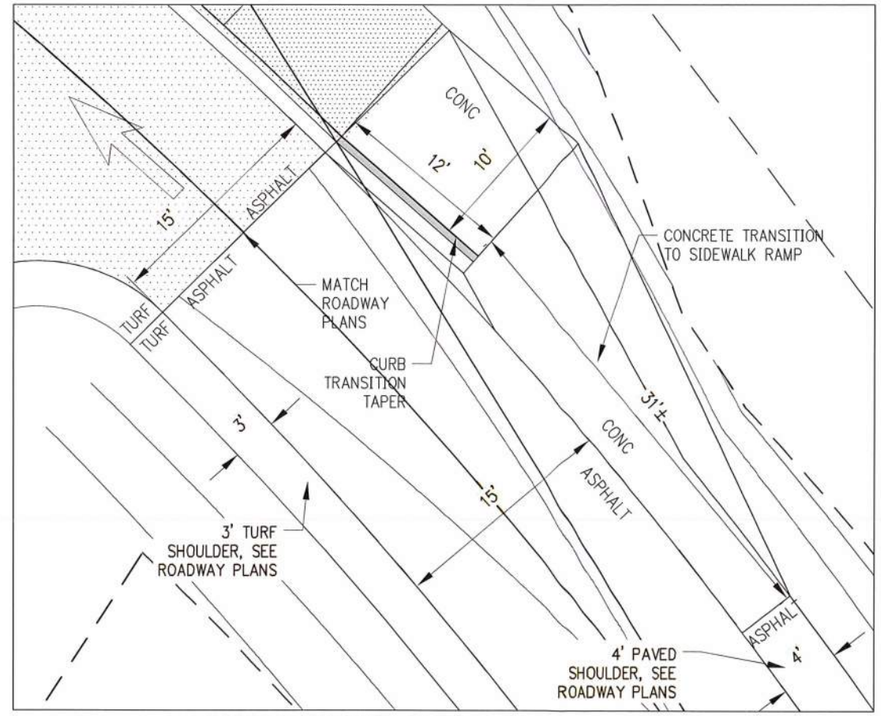
STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



VISITOR CENTER ACCESSIBLE PARKING
NTS



VISITOR CENTER EXIT
NTS



VISITOR CENTER ENTRANCE
NTS

PLAN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	67	151

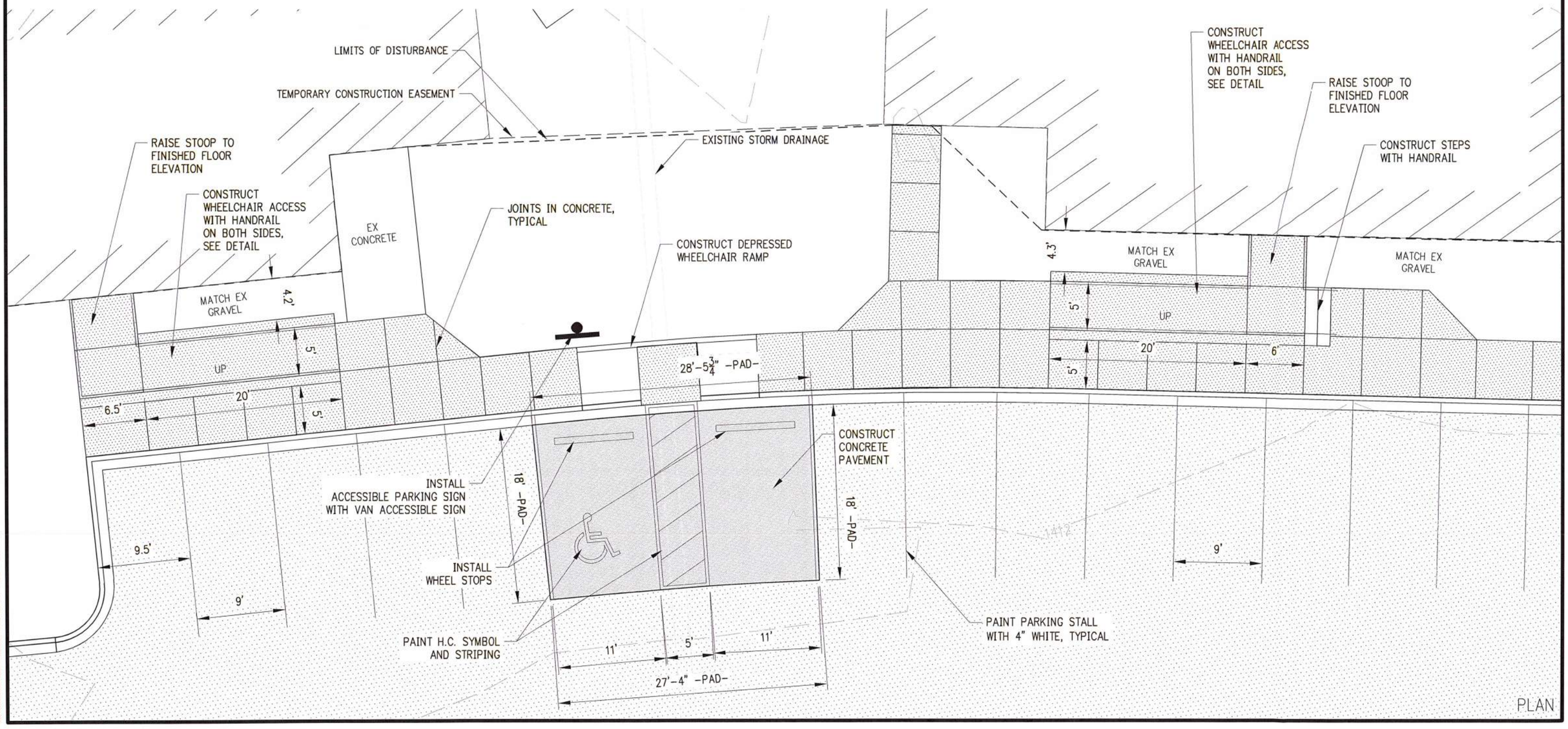
(2) SITE 3 SIDEWALK AND RAMP AT HEADQUARTERS

PERI 152541 DRAWING NO. 409/150019

NOTES:
1. DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF WALL AND RAIL TO ENGINEER FOR APPROVAL.

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

GRAPHIC SCALE IN FEET
10' 0 10'



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	68	151

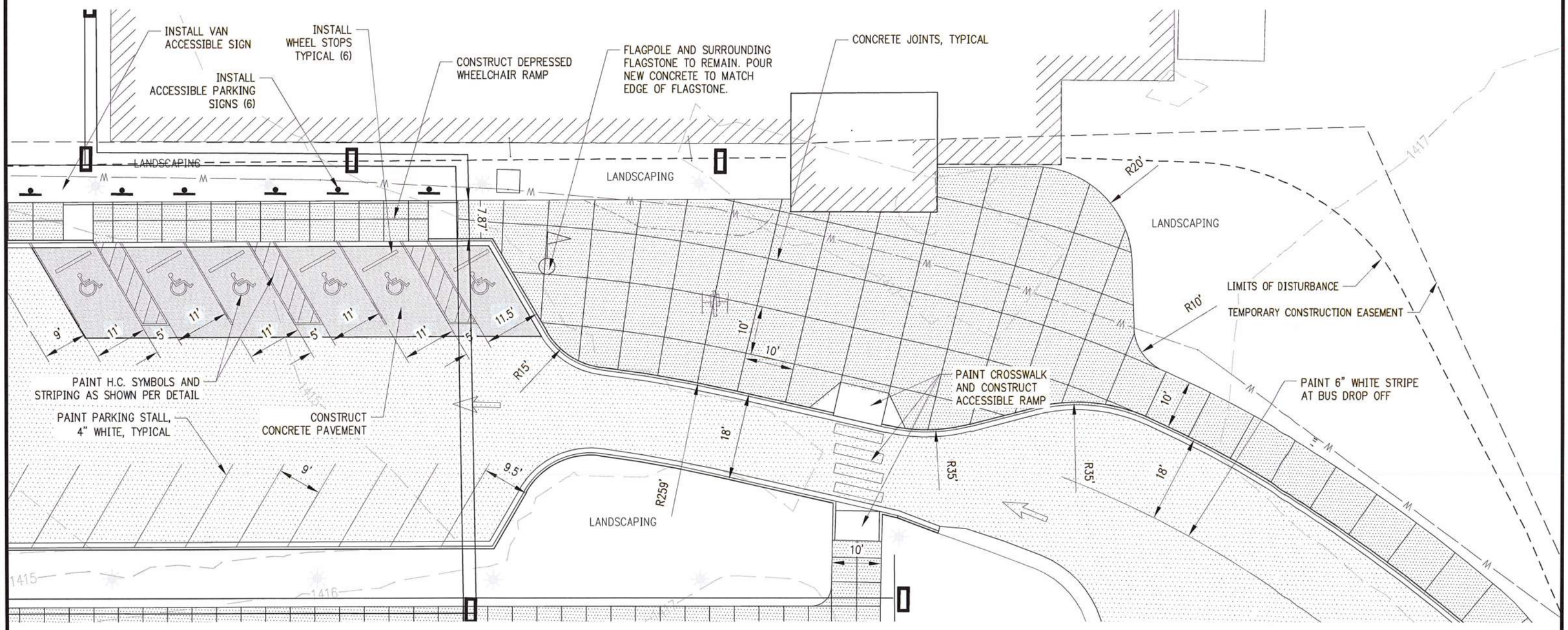
(2) SITE 3 SIDEWALK AND RAMP AT VISITOR CENTER

PERI 152541 DRAWING NO. 409/150019

NOTE:
DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

GRAPHIC SCALE IN FEET
20' 0 20'



PLAN

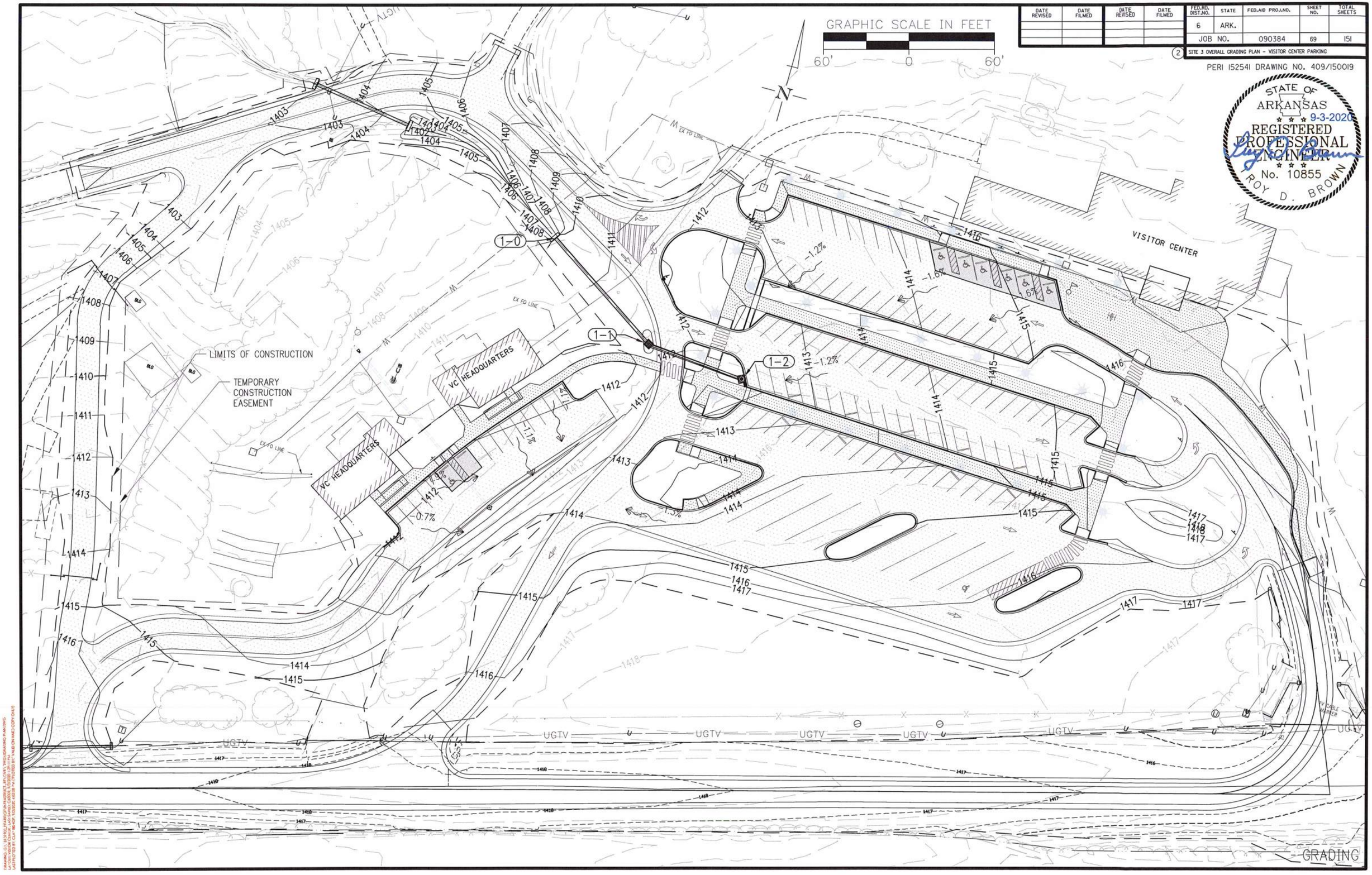
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	69	151

2 SITE 3 OVERALL GRADING PLAN - VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

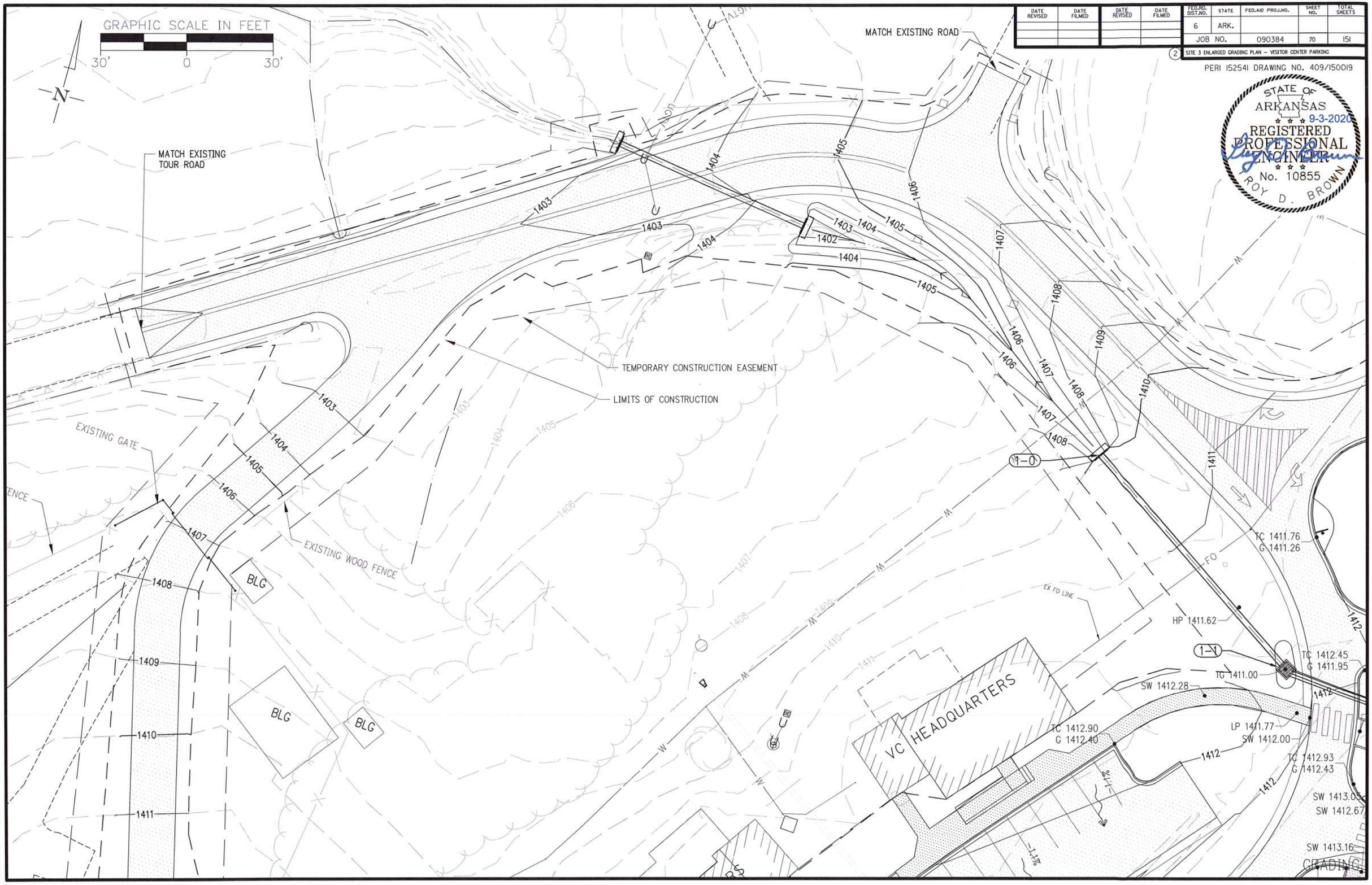


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	70	151

2 SITE 3 ENLARGED GRADING PLAN – VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

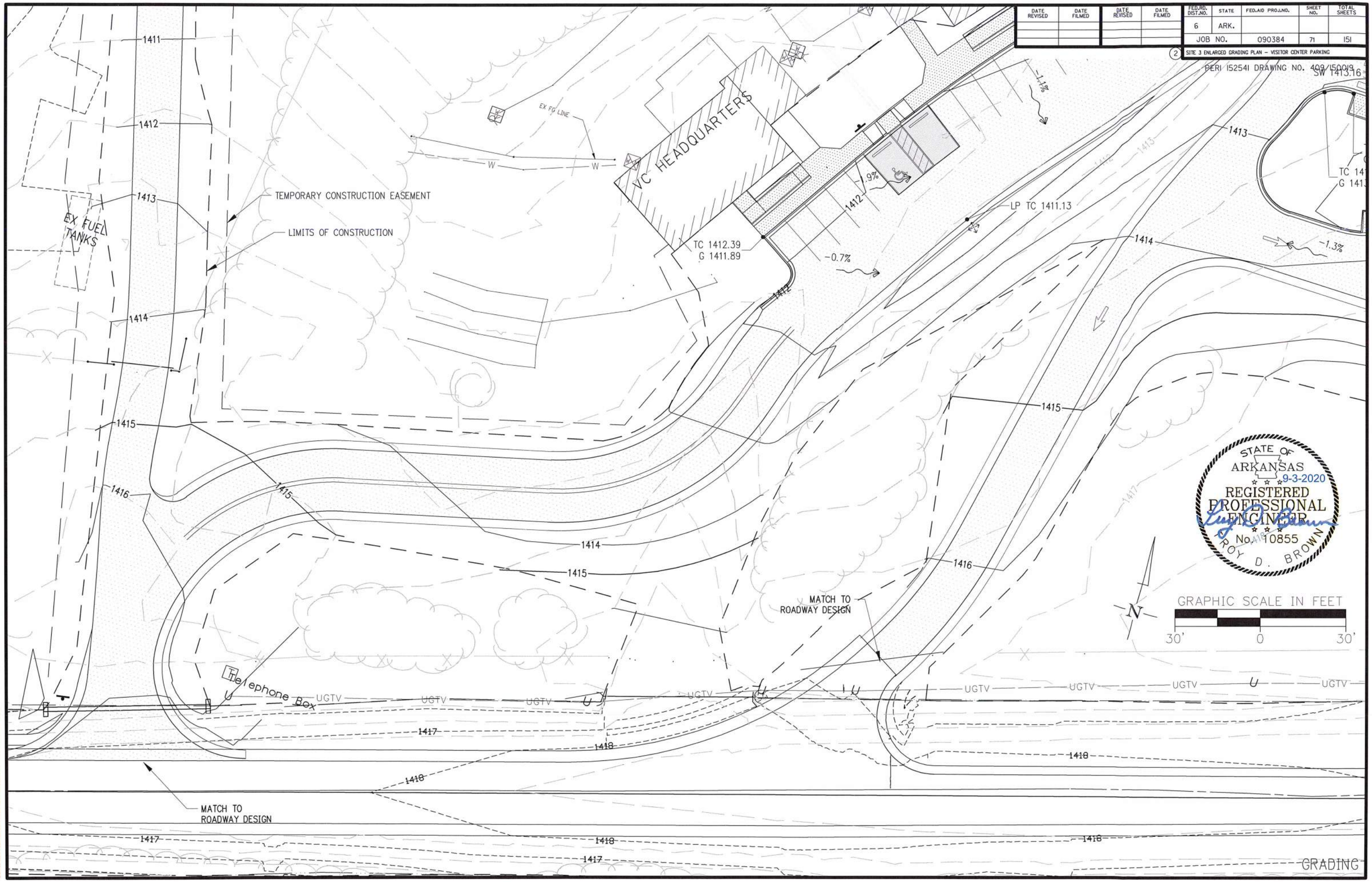


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	71	151

2 SITE 3 ENLARGED GRADING PLAN – VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019



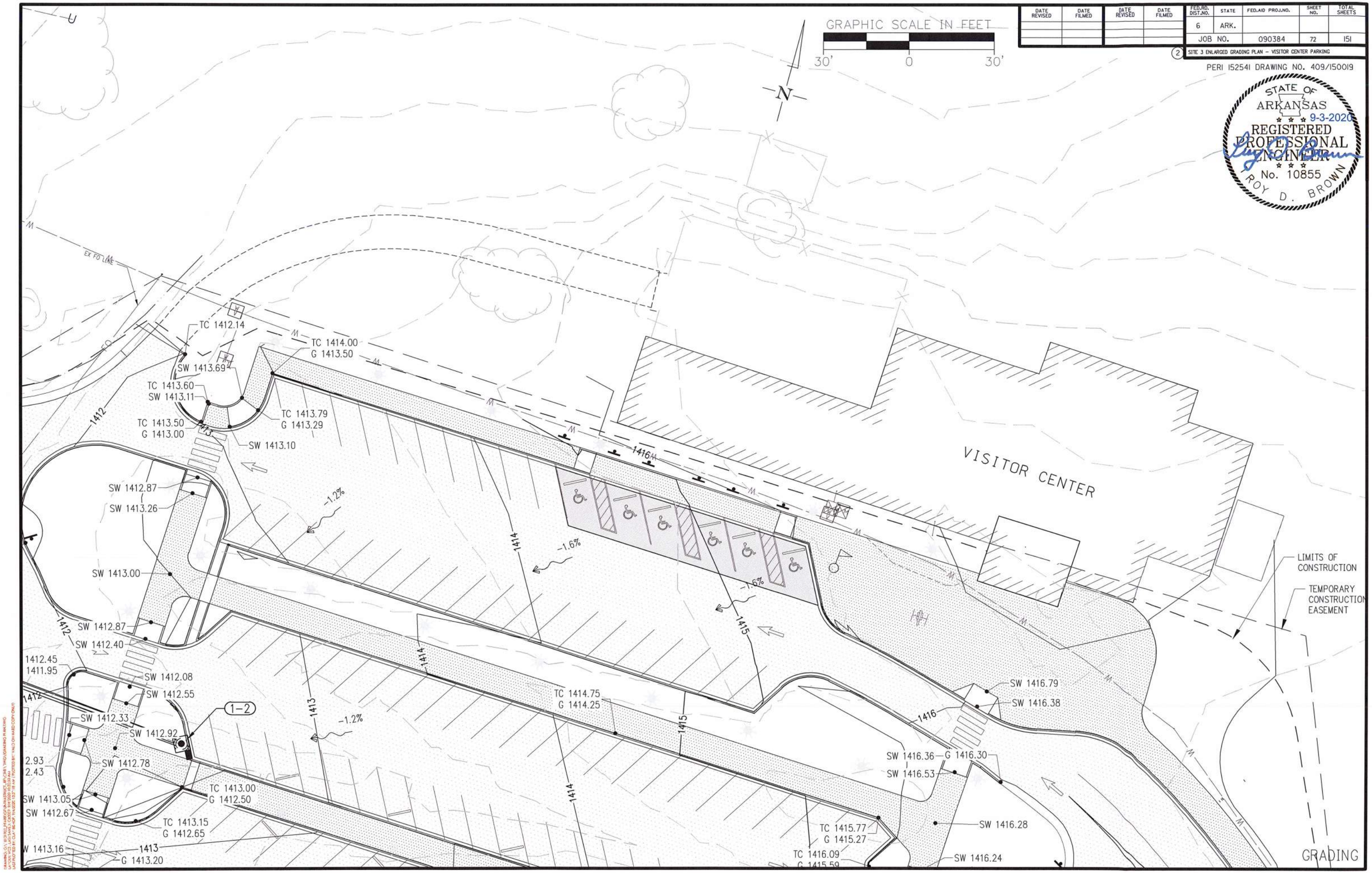
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	72	151

(2) SITE 3 ENLARGED GRADING PLAN – VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

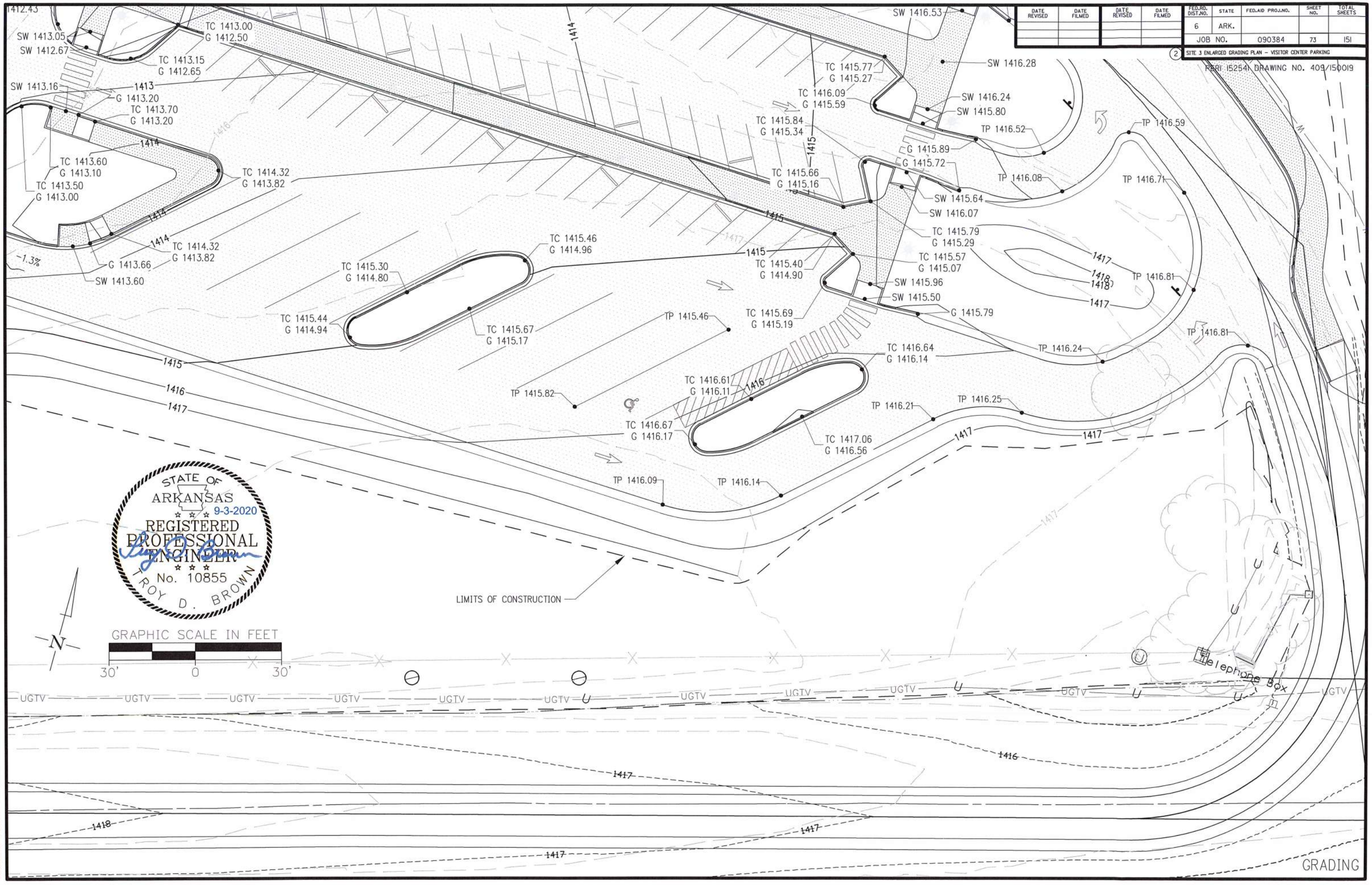


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	73	151

2 SITE 3 ENLARGED GRADING PLAN – VISITOR CENTER PARKING

REPI 152541 DRAWING NO. 409/150019



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

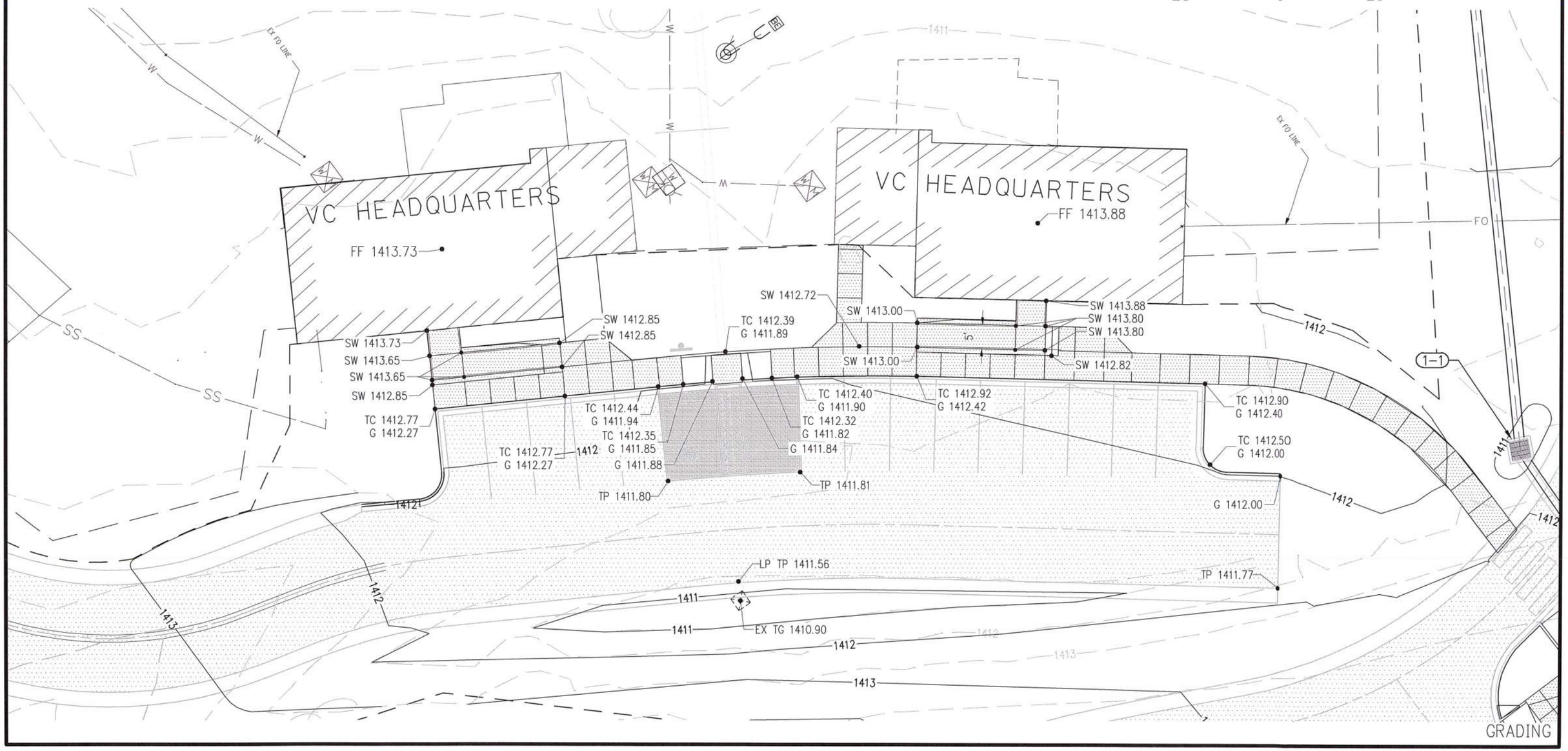
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	74	151

(2) SITE 3 SIDEWALK AND RAMP AT HEADQUARTERS

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

GRAPHIC SCALE IN FEET
20' 0 20'



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	75	151

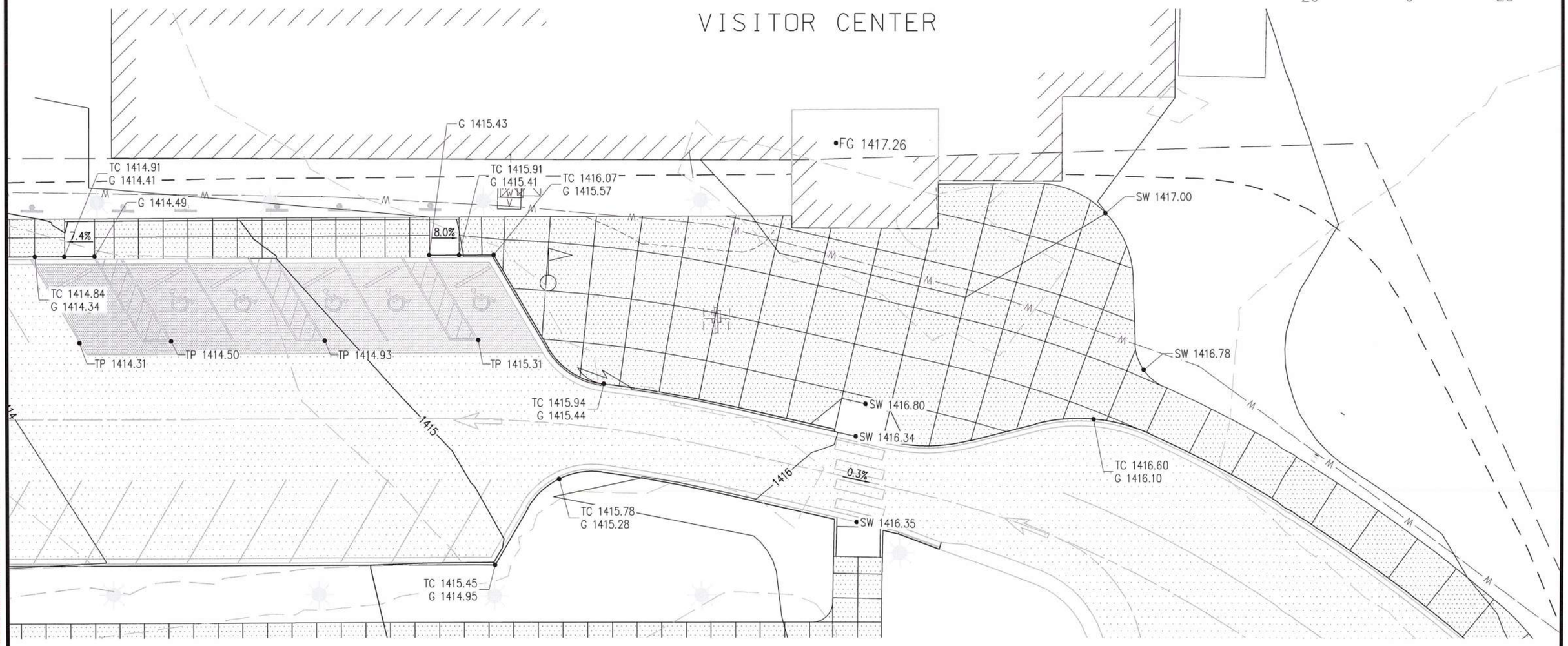
(2) SITE 3 SIDEWALK AND PLAZA AT VISTOR CENTER

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

N

GRAPHIC SCALE IN FEET
20' 0 20'



GRADING

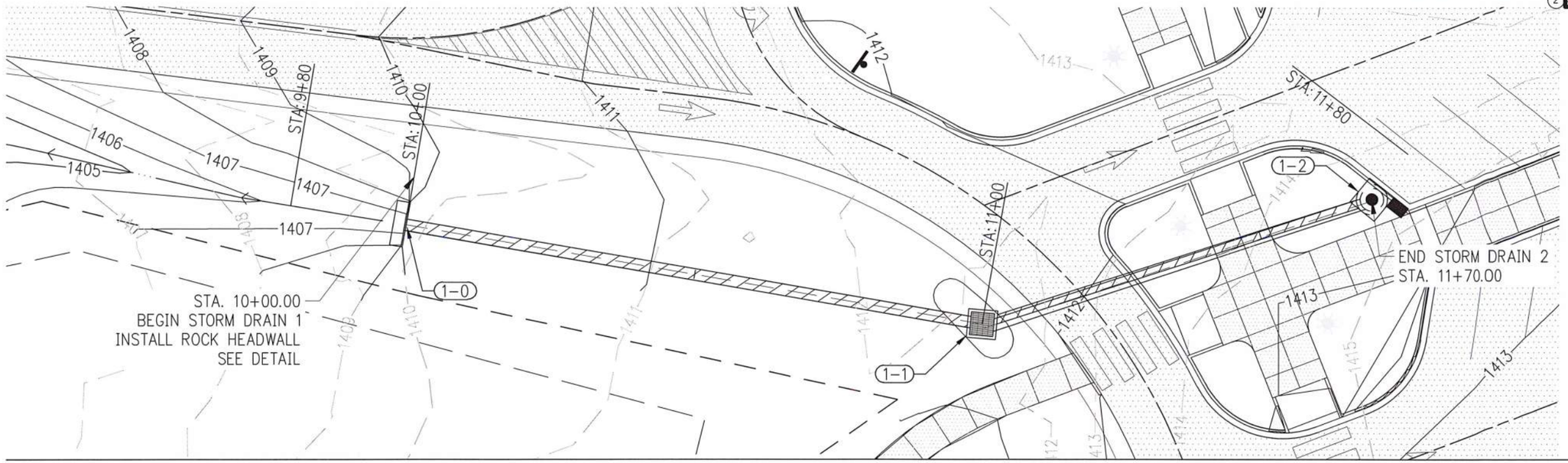
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

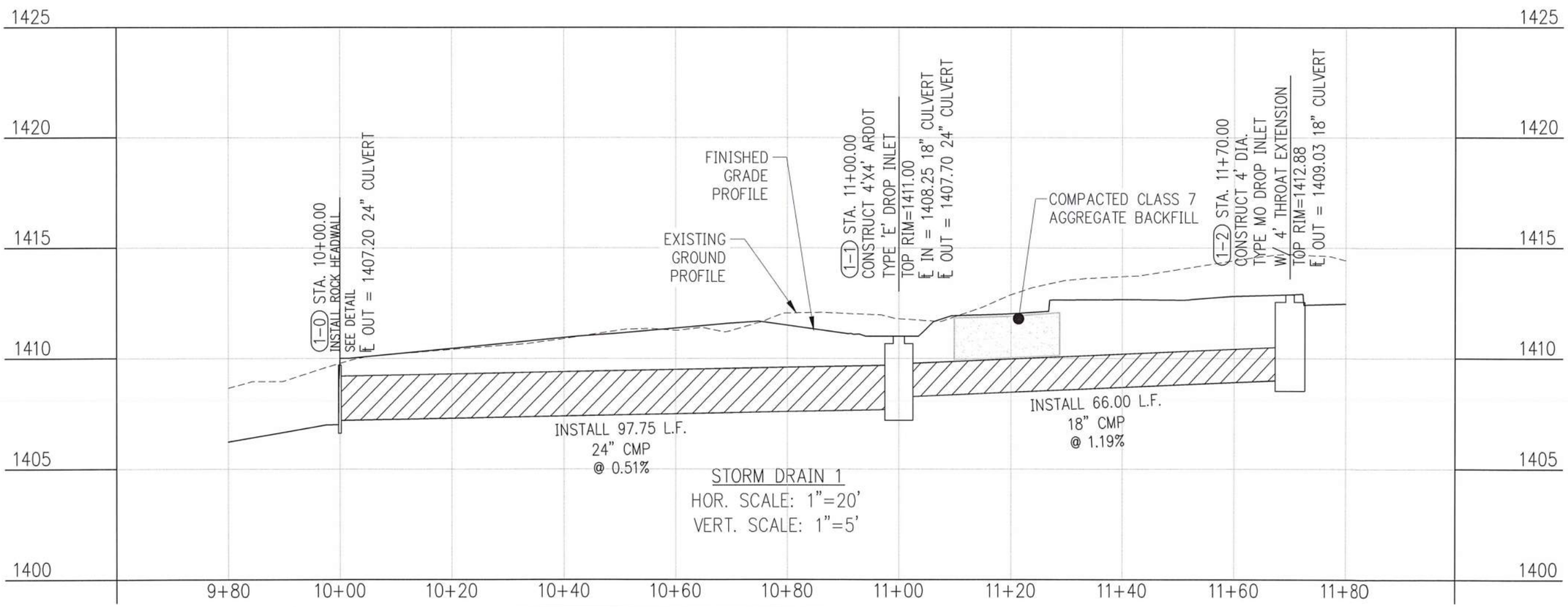
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	76	151

2 SITE 3 STORM DRAIN 1 P&P SHT.

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN





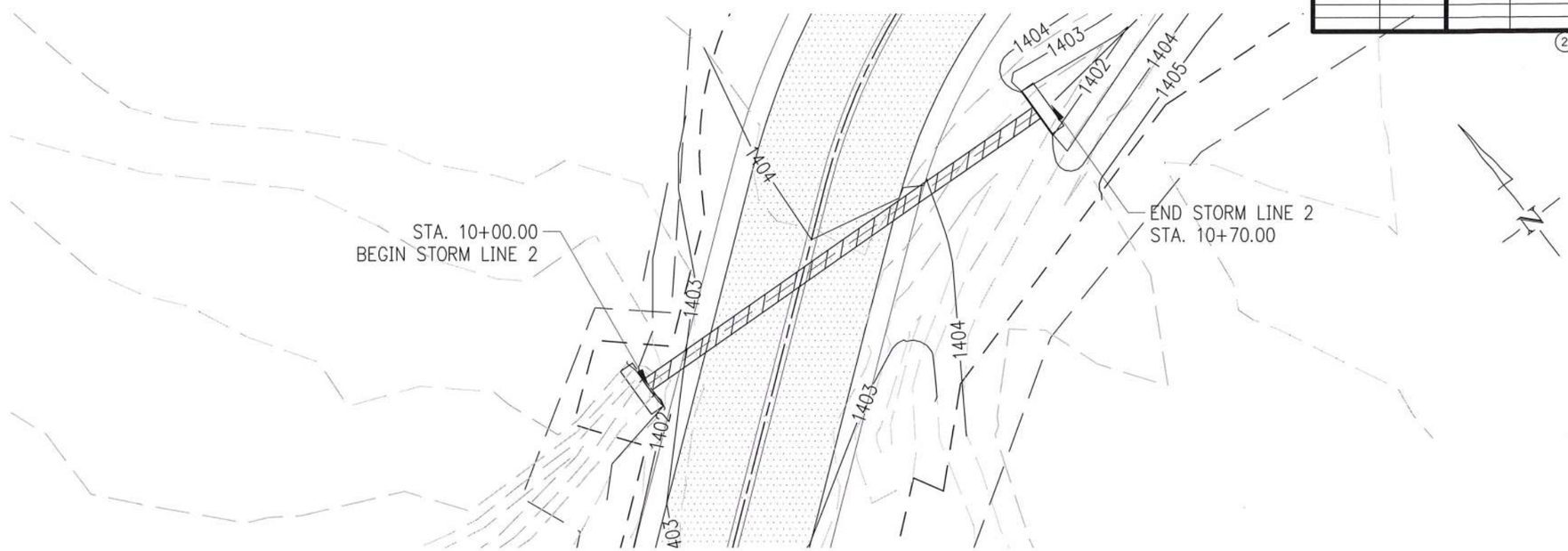
STORM DRAIN 1
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

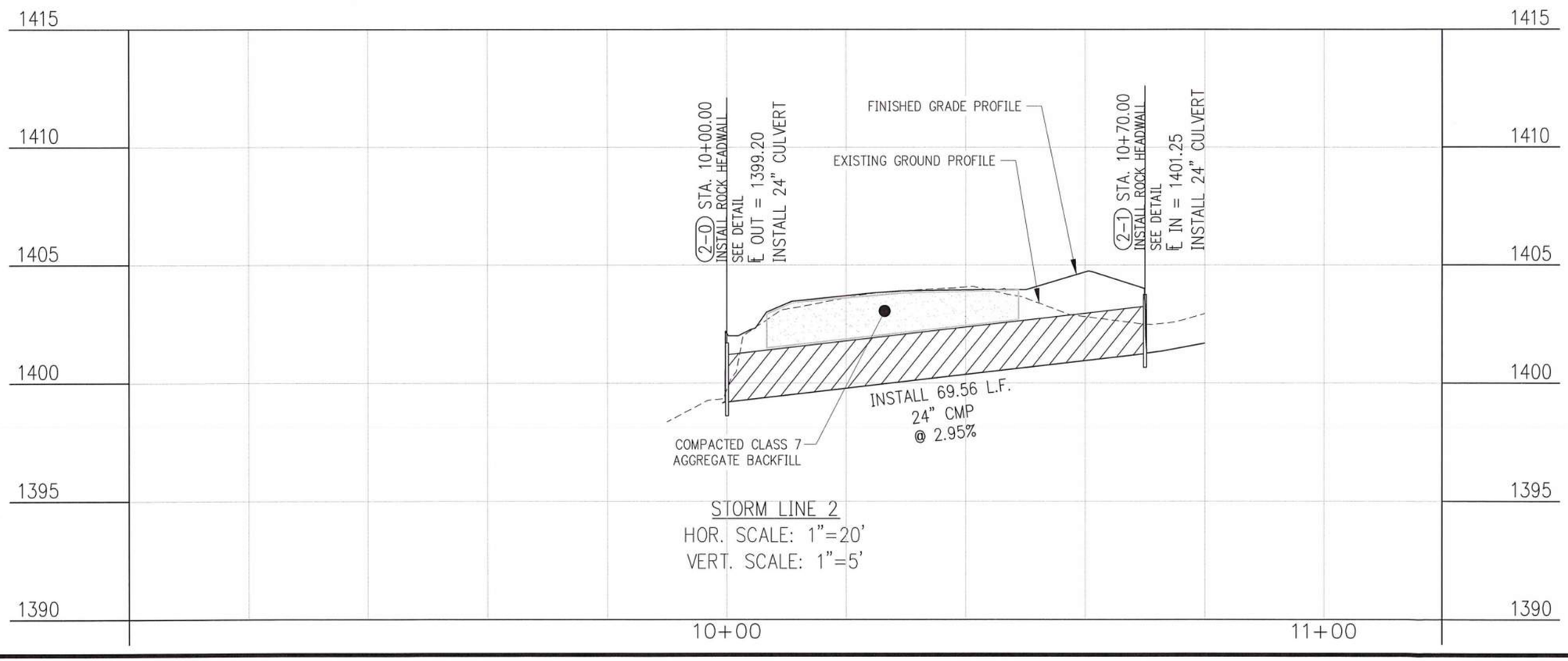
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	77	151

(2) SITE 3 STORM DRAIN 2 P&P SHT.

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN





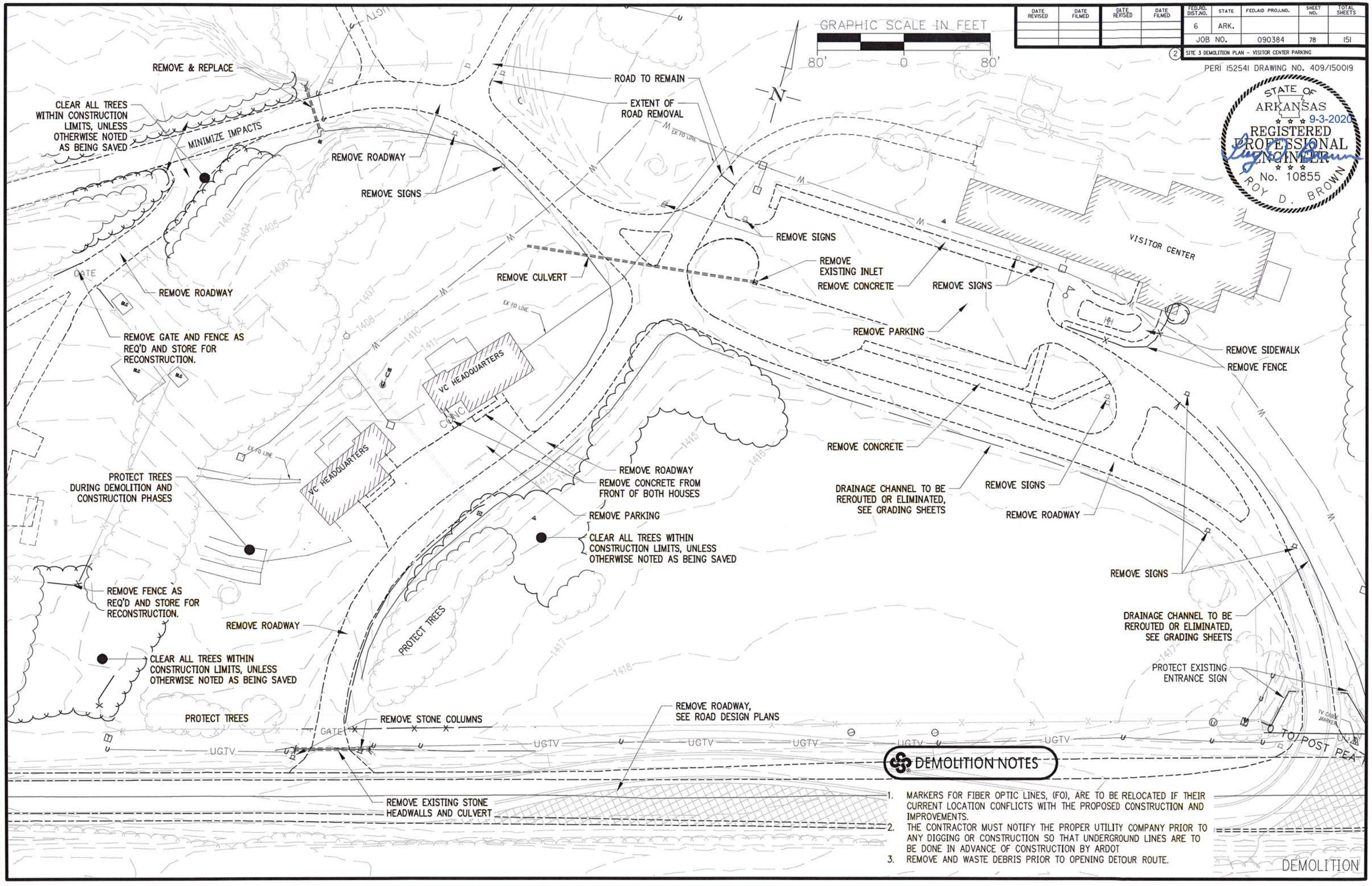
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	78	151

(2) SITE 3 DEMOLITION PLAN – VISITOR CENTER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



DEMOLITION NOTES

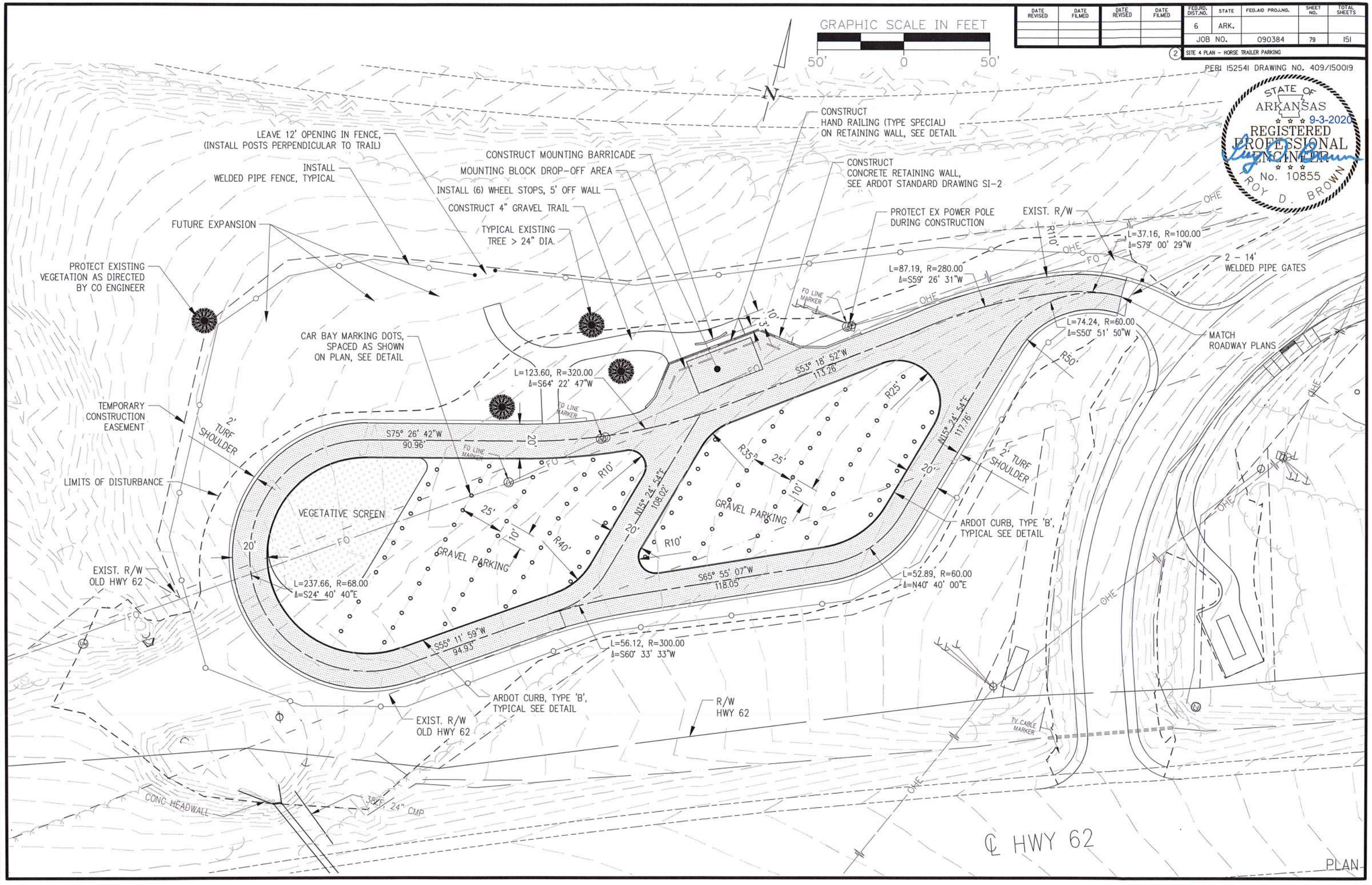
1. MARKERS FOR FIBER OPTIC LINES, (FO), ARE TO BE RELOCATED IF THEIR CURRENT LOCATION CONFLICTS WITH THE PROPOSED CONSTRUCTION AND IMPROVEMENTS.
2. THE CONTRACTOR MUST NOTIFY THE PROPER UTILITY COMPANY PRIOR TO ANY DIGGING OR CONSTRUCTION SO THAT UNDERGROUND LINES ARE TO BE DONE IN ADVANCE OF CONSTRUCTION BY ARDOT
3. REMOVE AND WASTE DEBRIS PRIOR TO OPENING DETOUR ROUTE.

DEMOLITION

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	79	151

2 SITE 4 PLAN – HORSE TRAILER PARKING

PERI 152541 DRAWING NO. 409/150019



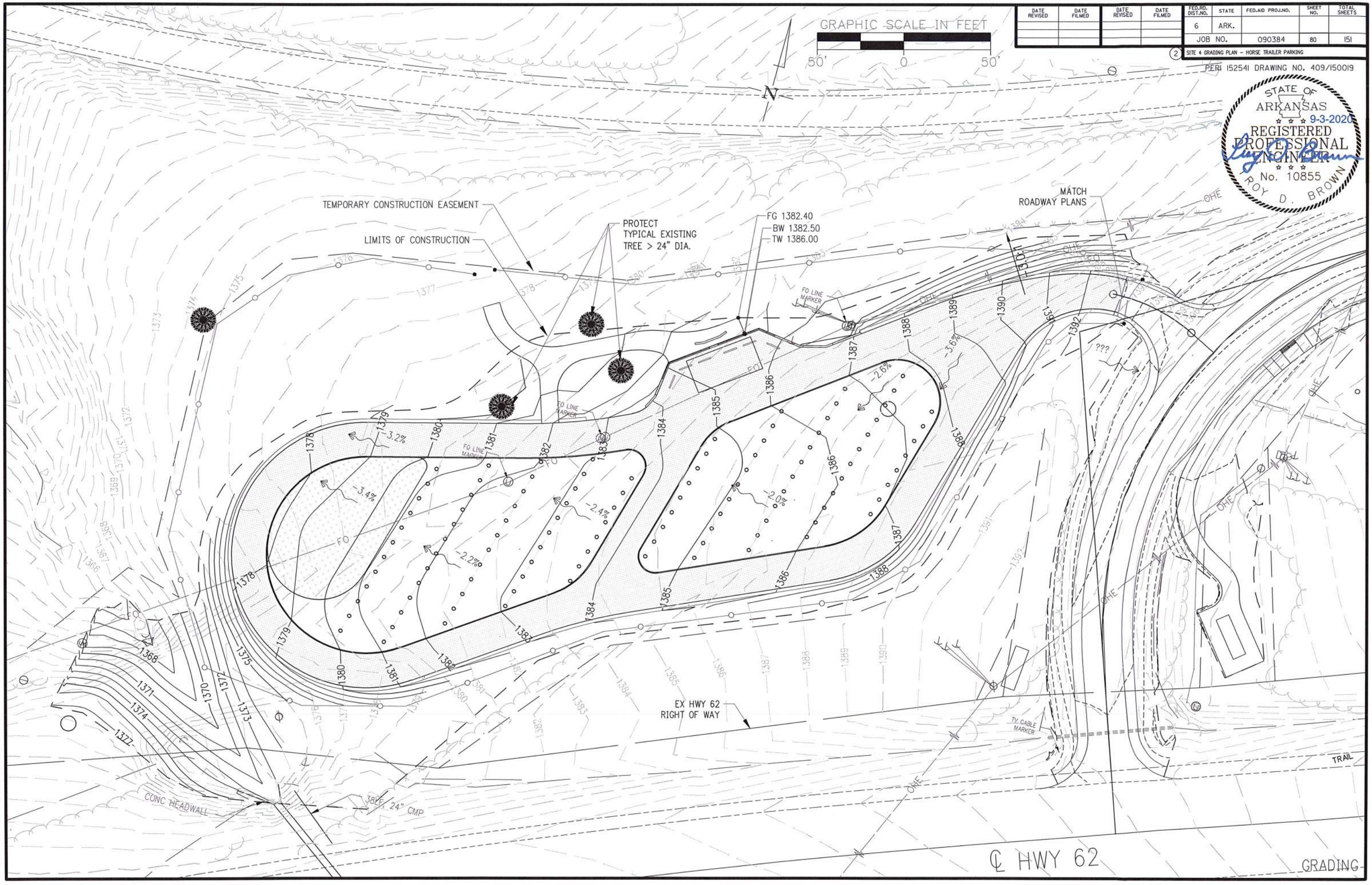
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	80	151

2 SITE 4 GRADING PLAN – HORSE TRAILER PARKING

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



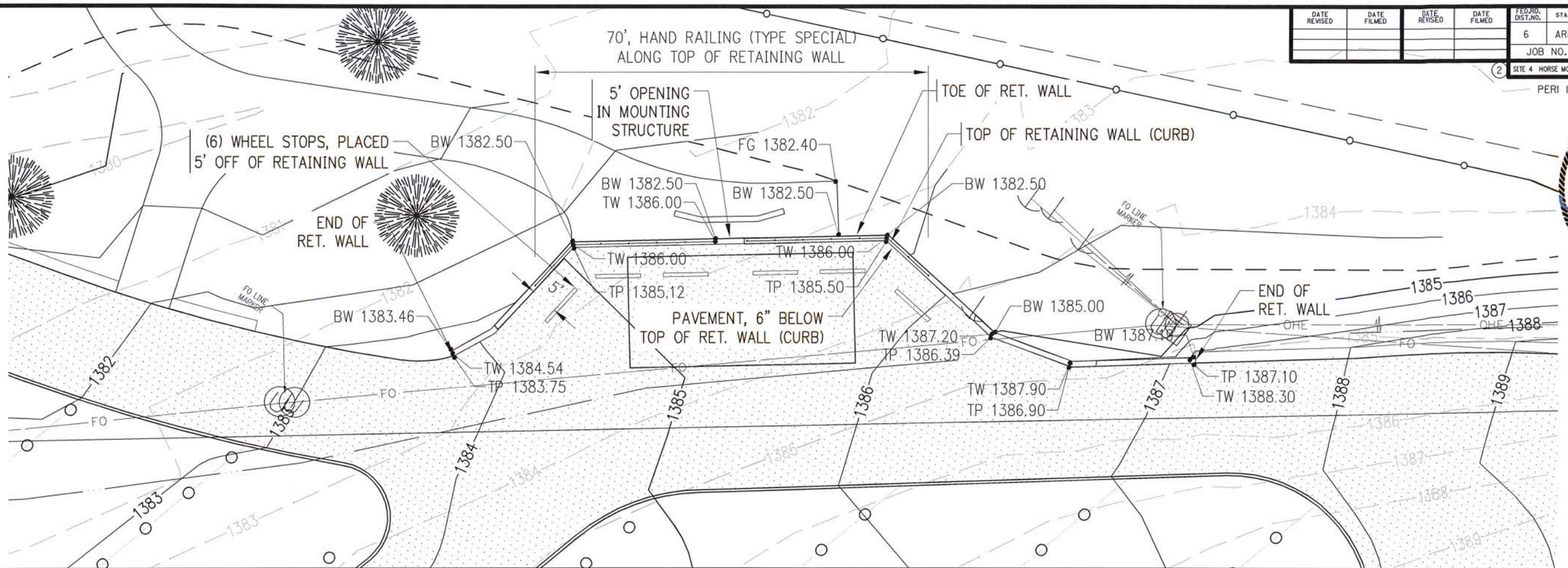
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	81	151

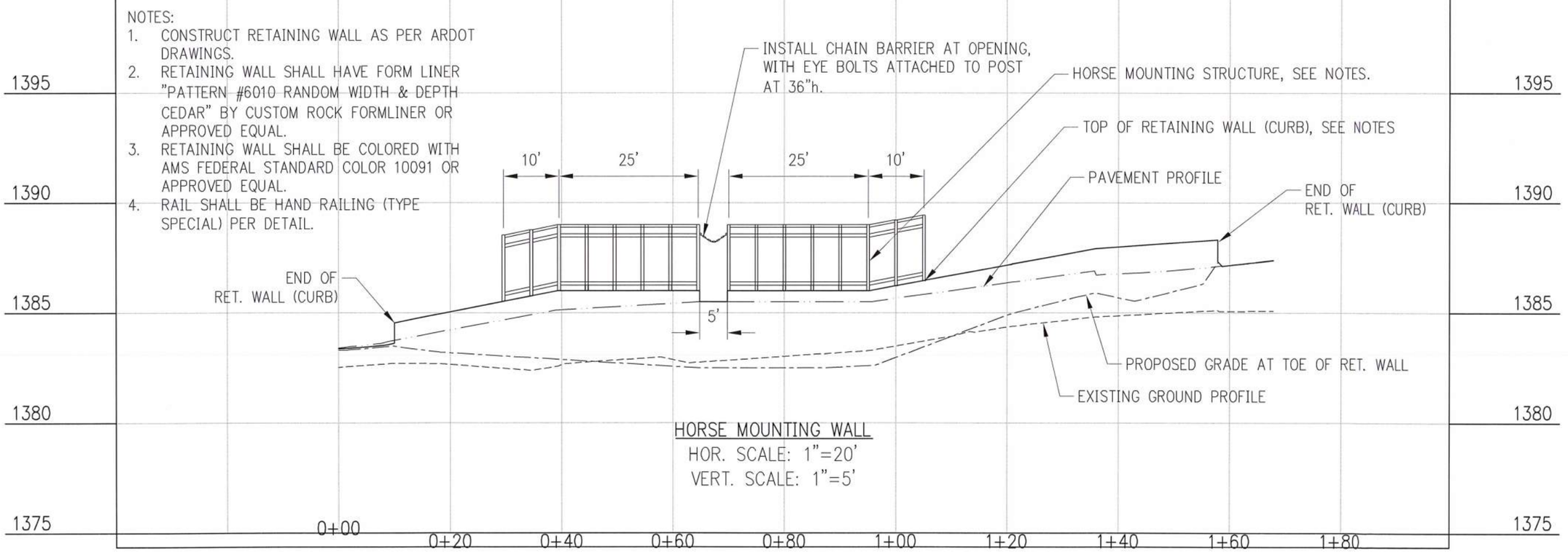
(2) SITE 4 HORSE MOUNTING WALL AND BARRIER P&P SHT.

PERI 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN



NOTES:
1. CONSTRUCT RETAINING WALL AS PER ARDOT DRAWINGS.
2. RETAINING WALL SHALL HAVE FORM LINER "PATTERN #6010 RANDOM WIDTH & DEPTH CEDAR" BY CUSTOM ROCK FORMLINER OR APPROVED EQUAL.
3. RETAINING WALL SHALL BE COLORED WITH AMS FEDERAL STANDARD COLOR 10091 OR APPROVED EQUAL.
4. RAIL SHALL BE HAND RAILING (TYPE SPECIAL) PER DETAIL.



HORSE MOUNTING WALL
HOR. SCALE: 1"=20'
VERT. SCALE: 1"=5'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	82	151

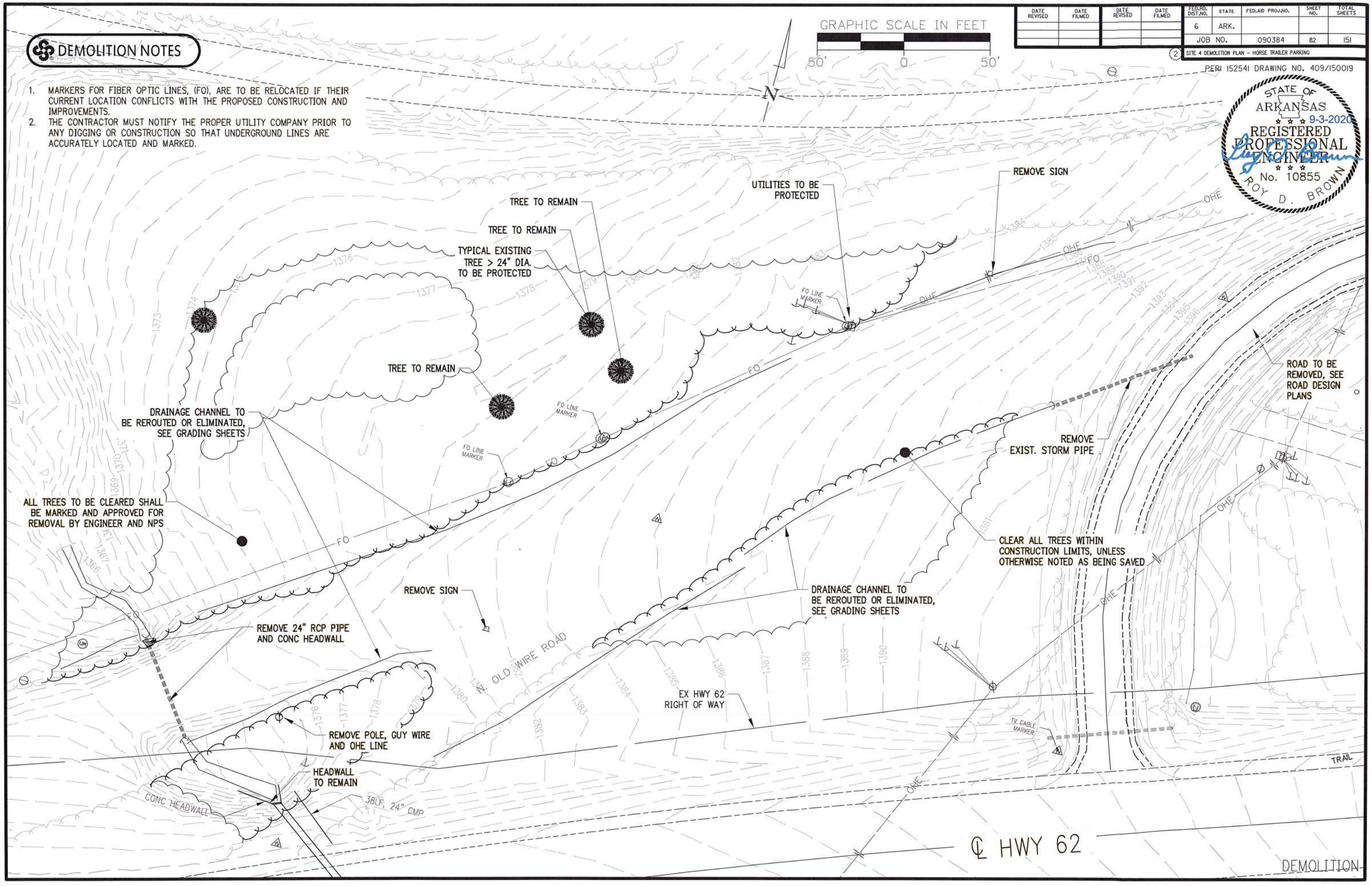
2 SITE 4 DEMOLITION PLAN – HORSE TRAILER PARKING

PER: 152541 DRAWING NO. 409/150019

STATE OF ARKANSAS
9-3-2020
REGISTERED PROFESSIONAL ENGINEER
No. 10855
ROY D. BROWN

DEMOLITION NOTES

1. MARKERS FOR FIBER OPTIC LINES, (FO), ARE TO BE RELOCATED IF THEIR CURRENT LOCATION CONFLICTS WITH THE PROPOSED CONSTRUCTION AND IMPROVEMENTS.
2. THE CONTRACTOR MUST NOTIFY THE PROPER UTILITY COMPANY PRIOR TO ANY DIGGING OR CONSTRUCTION SO THAT UNDERGROUND LINES ARE ACCURATELY LOCATED AND MARKED.



DEMOLITION

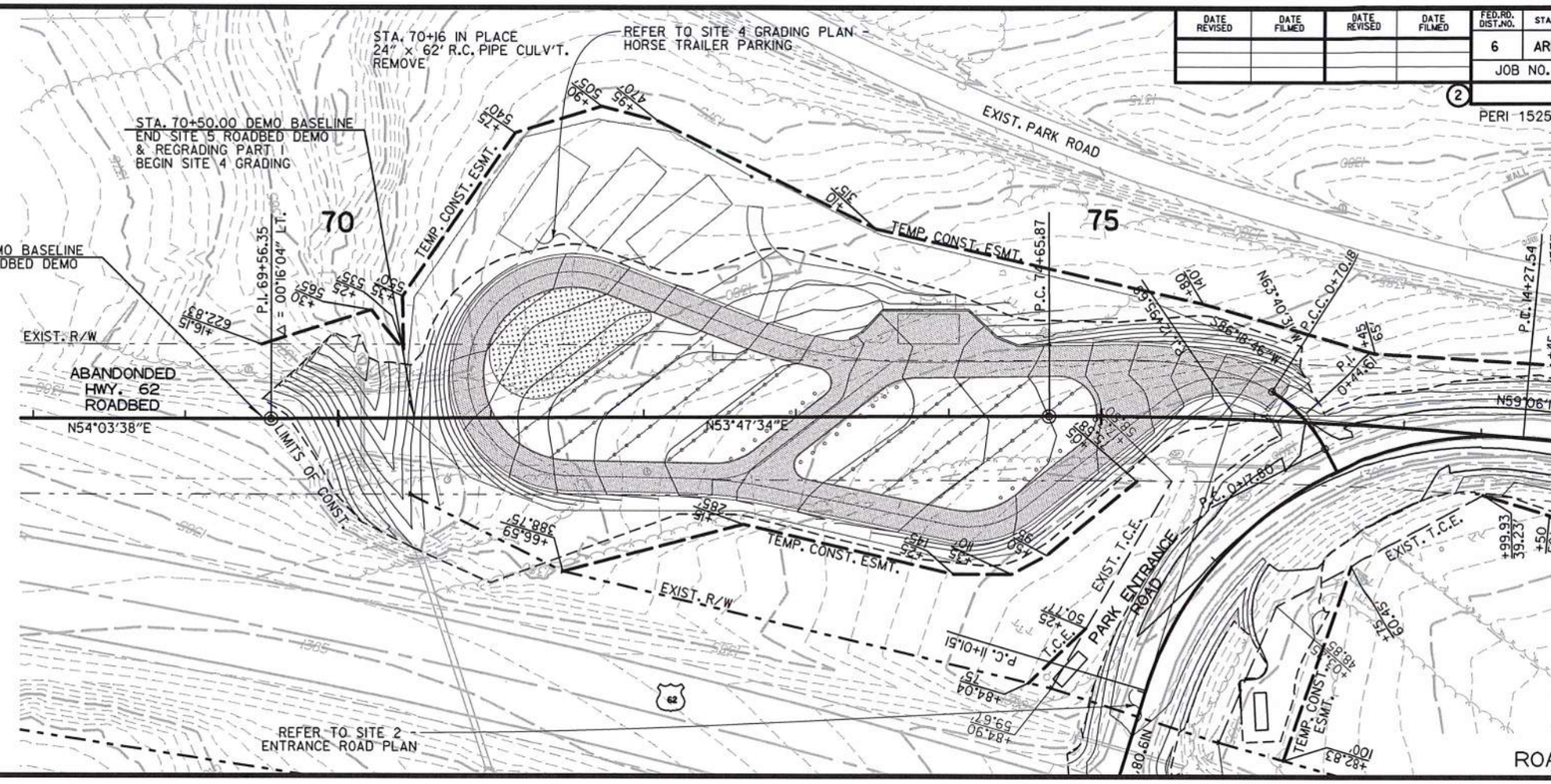
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	83	151

2 DEMO PLAN

PERI 152541 DRAWING NO. 409/150019

BASELINE ABANDONDED
ORIGINAL HWY. 62
PI = 79+27.95
Δ = 16°51'39" RT.
D = 01°50'16"
T = 462.08'
L = 917.48'
PC = 74+65.87
PT = 83+83.35



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
09-09-2020

LEGEND
PARKING/WALK AREA - SEE SITE PLAN

C.L. CONST. PARK ENTRANCE RD.
PI = 12+95.69
Δ = 78°14'56" RT.
D = 24°00'00"
T = 194.18'
L = 326.04'
PC = 11+01.51
POC = 14+27.54
e = 0.040'/'
Ls = 116'

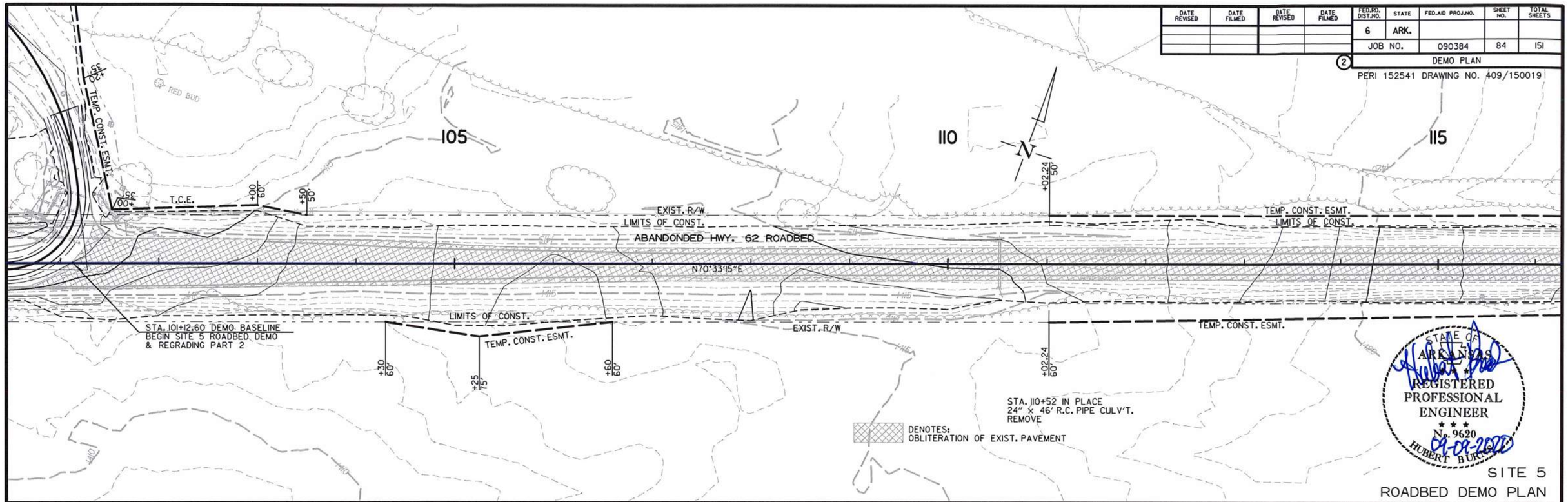
SITE 5
ROADBED DEMO PLAN

USER: fs513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\p&p\r090384 DEM001.dgn
PLOTTED: 9/8/2020 09:58 SCALE: 1:100

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	84	151

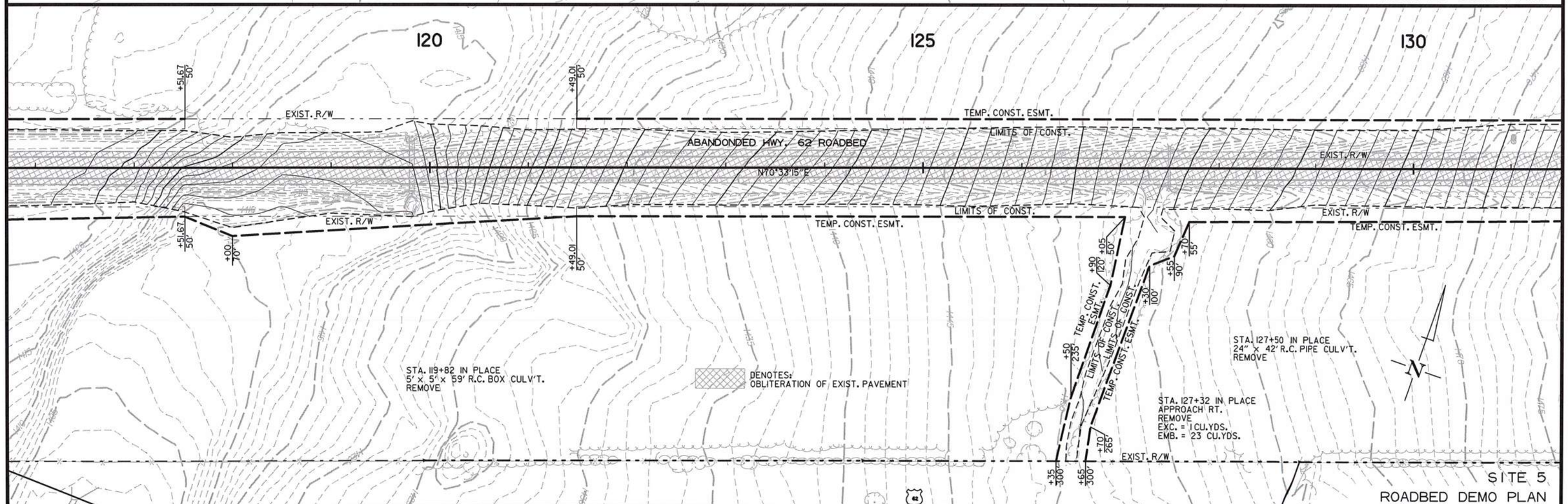
2 DEMO PLAN

PERI 152541 DRAWING NO. 409/150019



STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9620 HUBERT BURGESS 09-09-2020

SITE 5
ROADBED DEMO PLAN



SITE 5
ROADBED DEMO PLAN

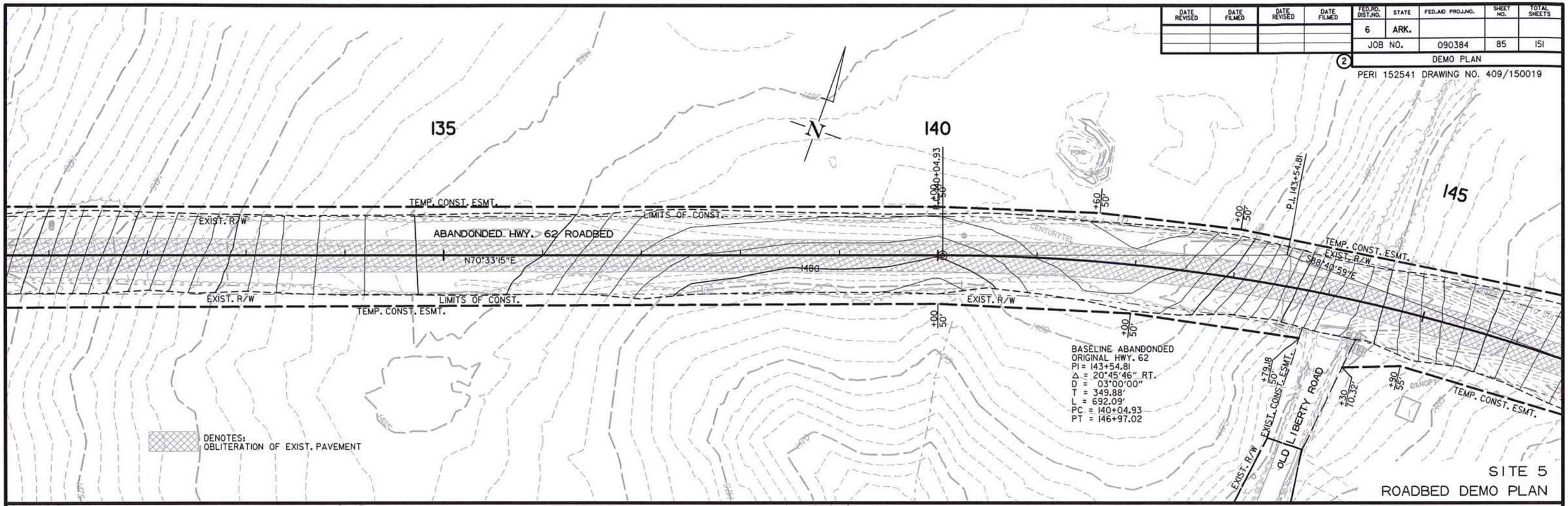
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 DEM001.dgn
PLOTTED: 9/8/2020 10:49 SCALE: 1:100

G:\18101900_PeaRidge\TRANSP\dgn\p&p\r090384 DEM001.dgn 9/8/2020 10:49

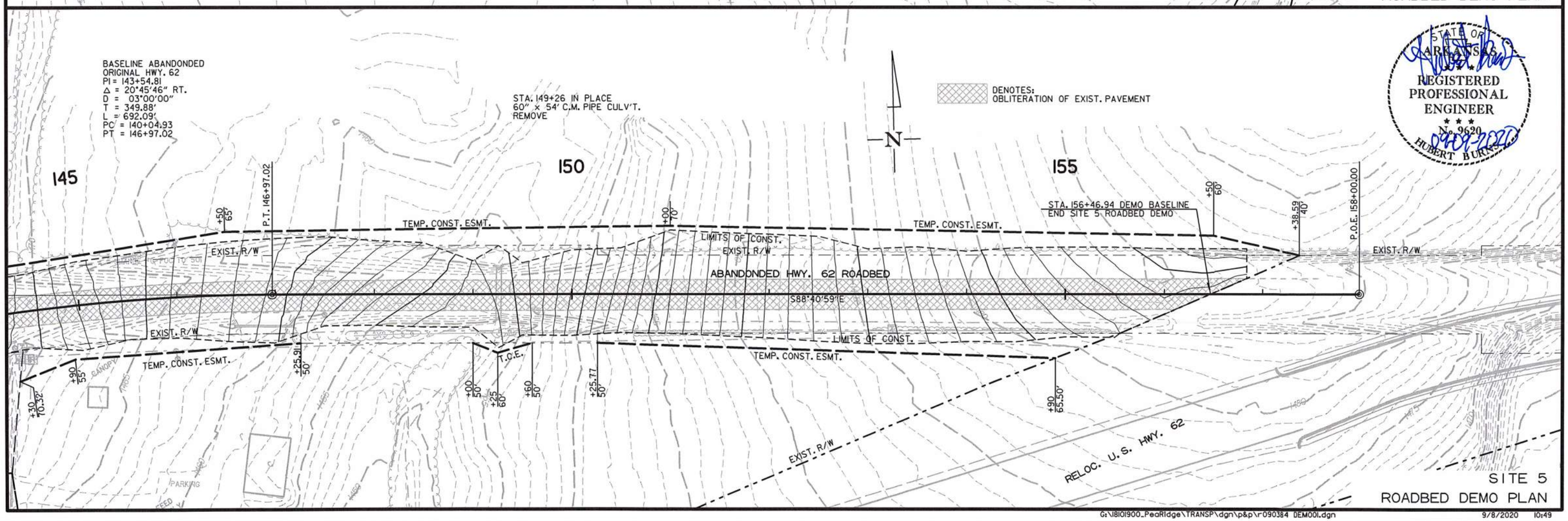
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	85	151

2 DEMO PLAN

PERI 152541 DRAWING NO. 409/150019



SITE 5
ROADBED DEMO PLAN



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURGESS
09-08-2020

SITE 5
ROADBED DEMO PLAN

USER: fs513
DESIGN FILE: G:\8101900_PeaRidge\TRANSP\dgn\p&p\r090384 DEM001.dgn
PLOTTED: 9/8/2020 10:49
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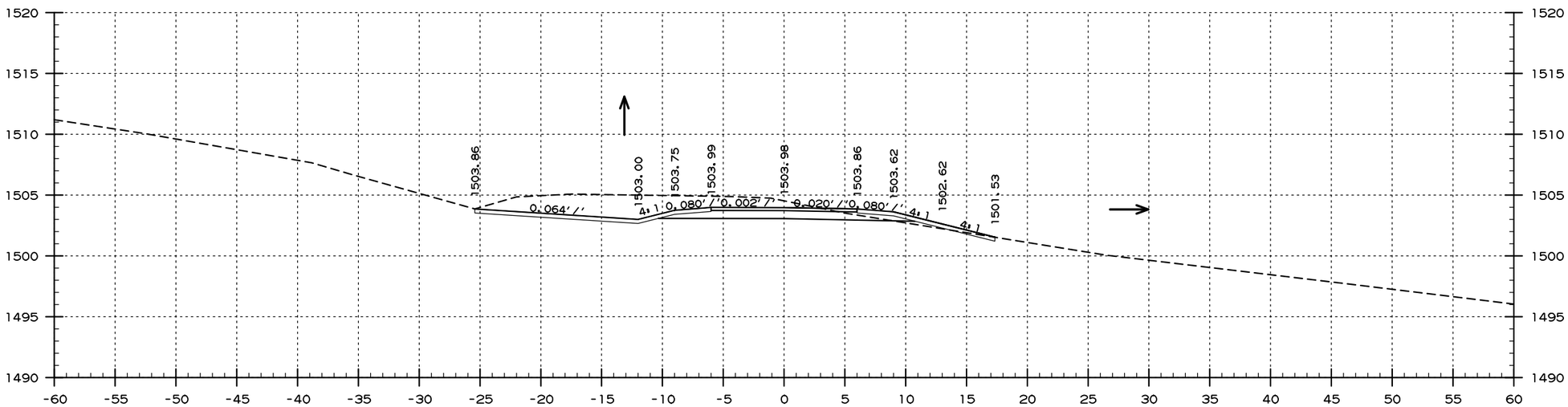
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	86	151

2 CROSS SECTIONS

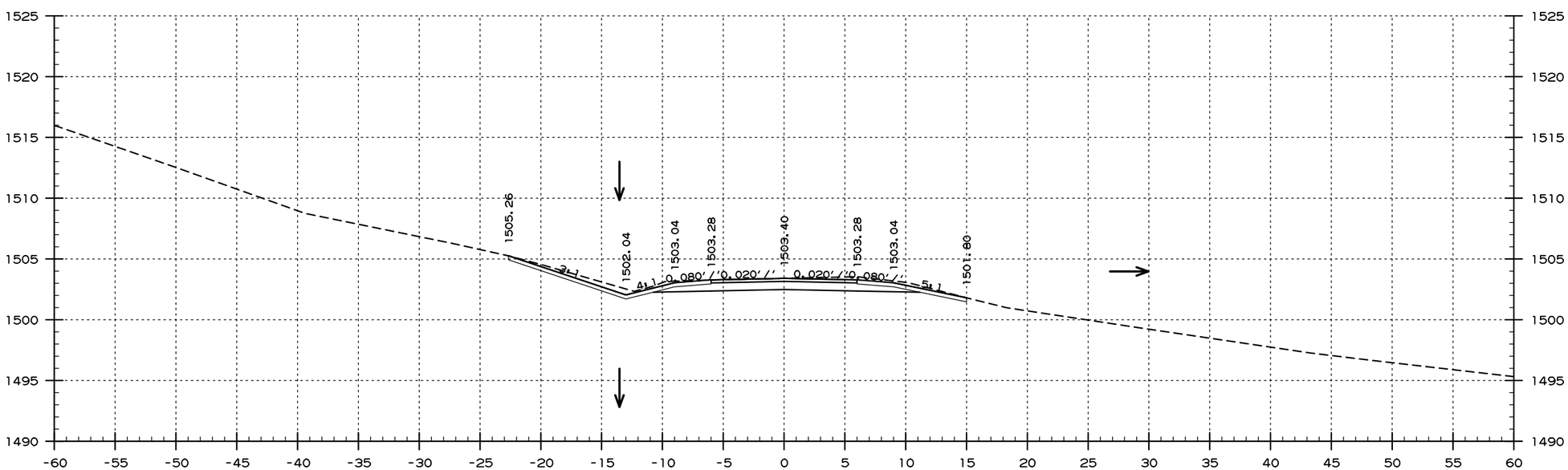
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 36 SQ.FT.
AREA FILL : 2 SQ.FT.

53+00.00

CUT VOLUME : 98 CU.YD.
FILL VOLUME : 3 CU.YD.



AREA CUT : 29 SQ.FT.
AREA FILL : 0 SQ.FT.

52+17.96 BEGIN CONSTRUCTION ONE-WAY TOUR ROAD

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE I
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 52+18 TO STA. 53+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

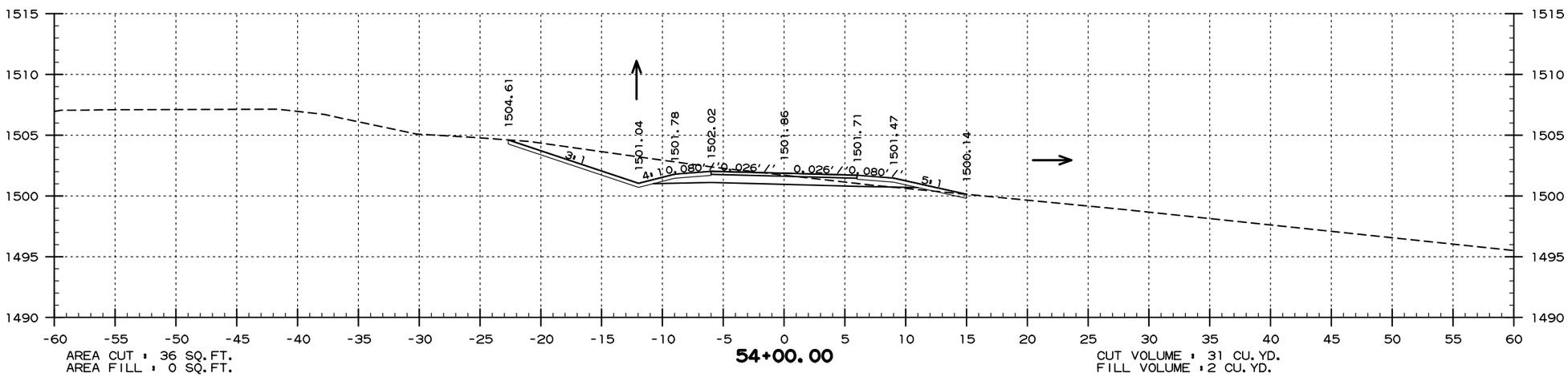
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	87	151

2 CROSS SECTIONS

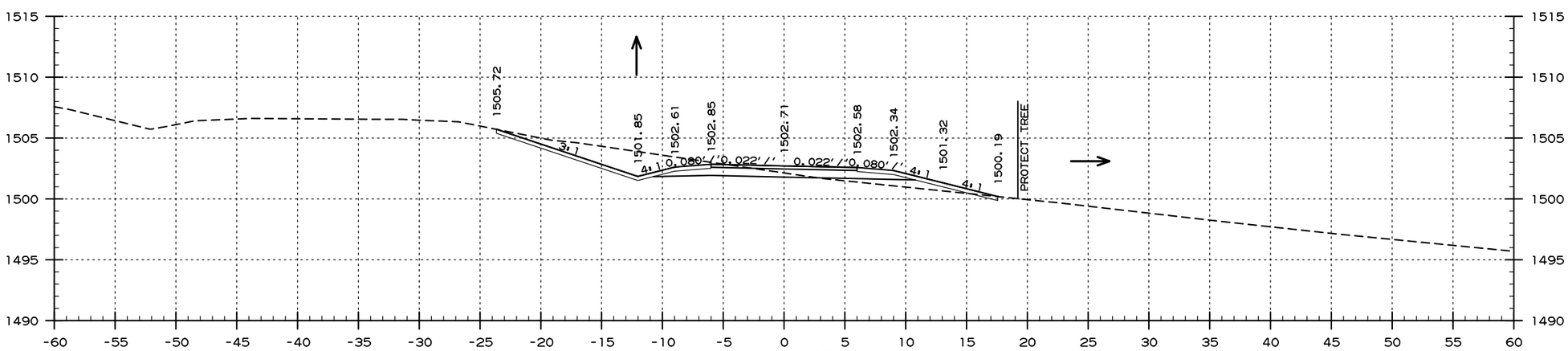
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 36 SQ.FT.
AREA FILL : 0 SQ.FT.

54+00.00

CUT VOLUME : 31 CU.YD.
FILL VOLUME : 2 CU.YD.



AREA CUT : 30 SQ.FT.
AREA FILL : 4 SQ.FT.

53+75.00

CUT VOLUME : 91 CU.YD.
FILL VOLUME : 9 CU.YD.

SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 53+75 TO STA. 54+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

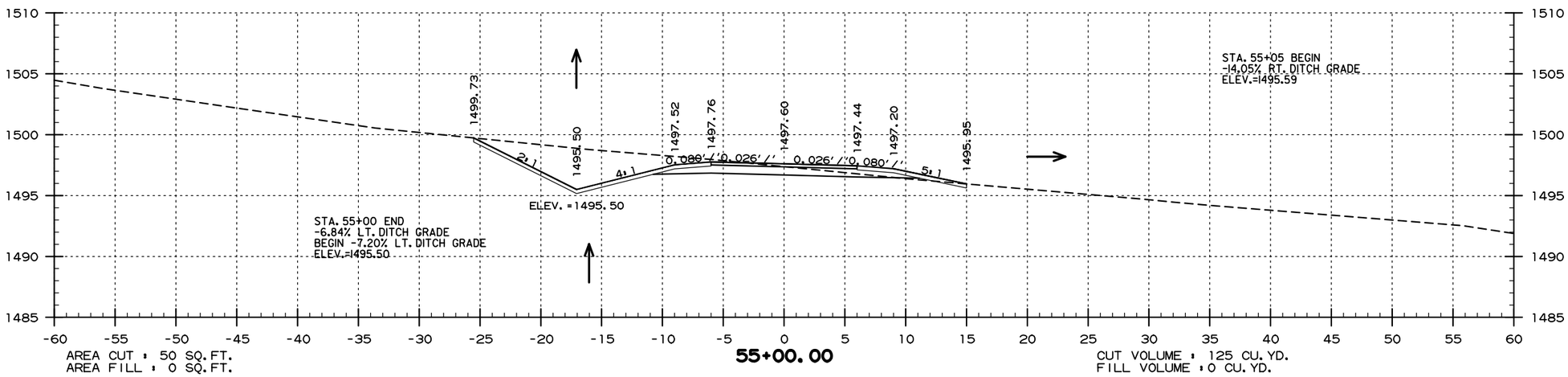
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

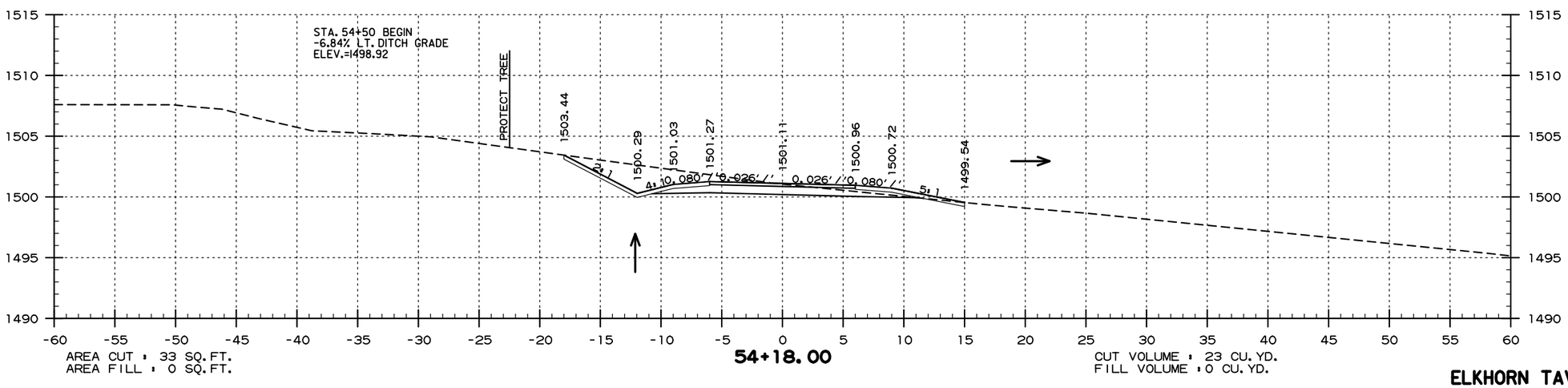
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	88	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019





SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 54+18 TO STA. 55+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

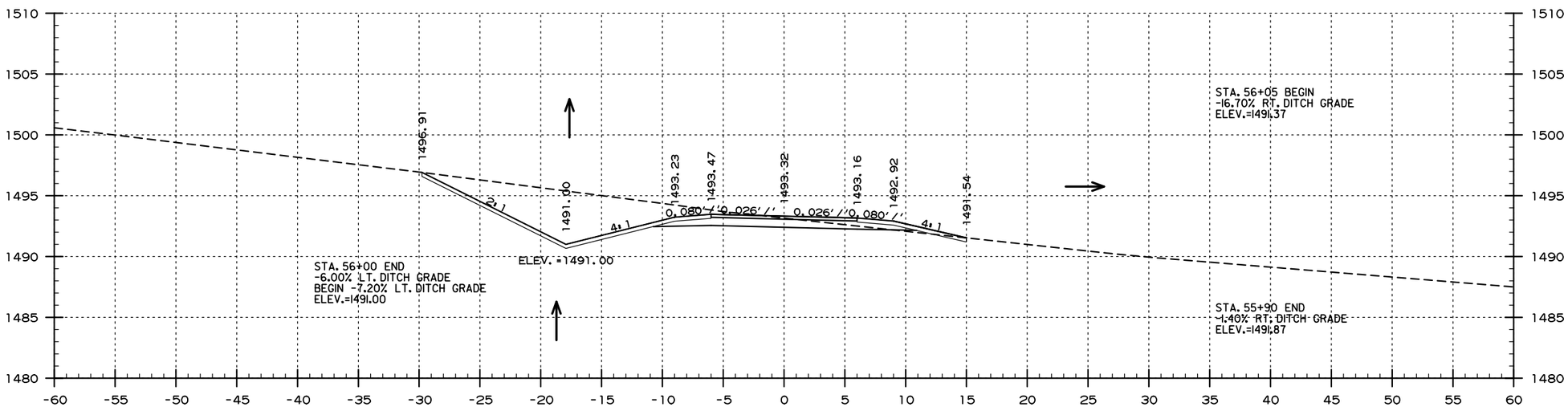
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

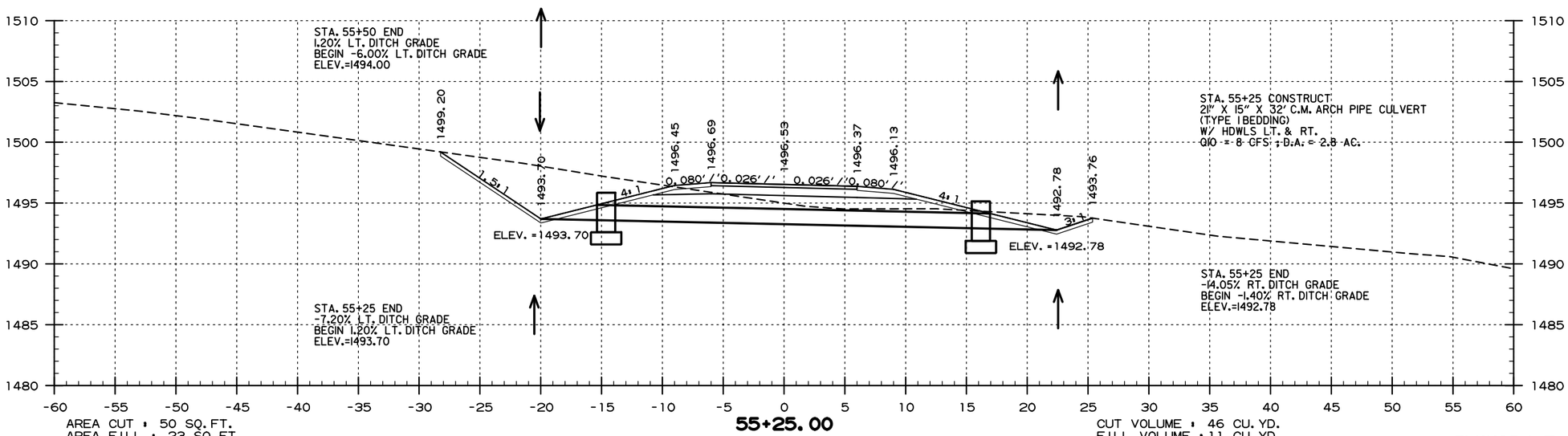
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	89	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019





SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 55+25 TO STA. 56+00

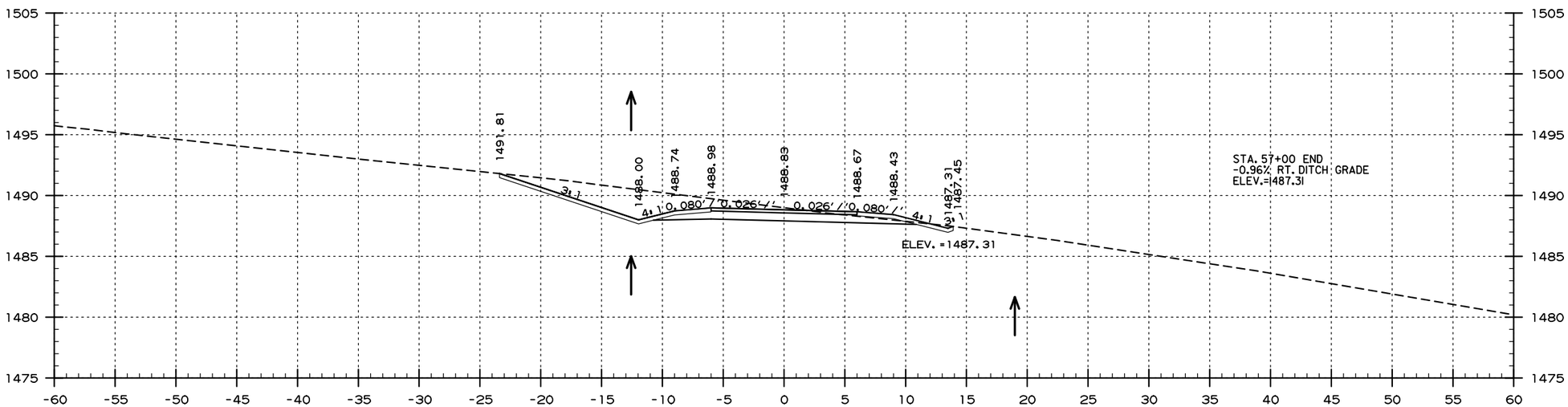
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	90	151

2 CROSS SECTIONS

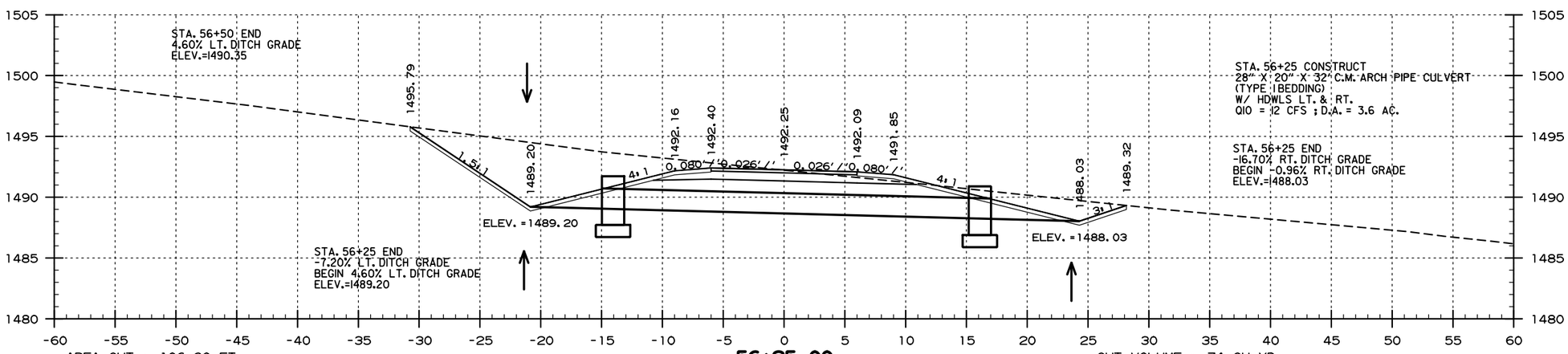
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 35 SQ.FT.
AREA FILL : 2 SQ.FT.

57+00.00

CUT VOLUME : 195 CU.YD.
FILL VOLUME : 3 CU.YD.



AREA CUT : 106 SQ.FT.
AREA FILL : 0 SQ.FT.

56+25.00

CUT VOLUME : 74 CU.YD.
FILL VOLUME : 1 CU.YD.

SITE I
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 56+25 TO STA. 57+00

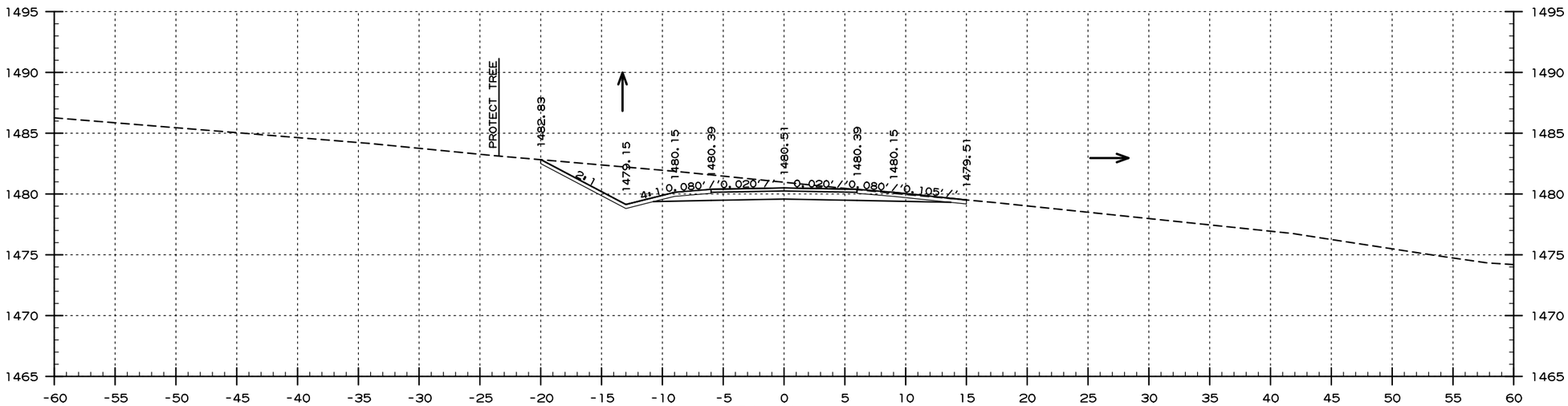
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	91	151

2 CROSS SECTIONS

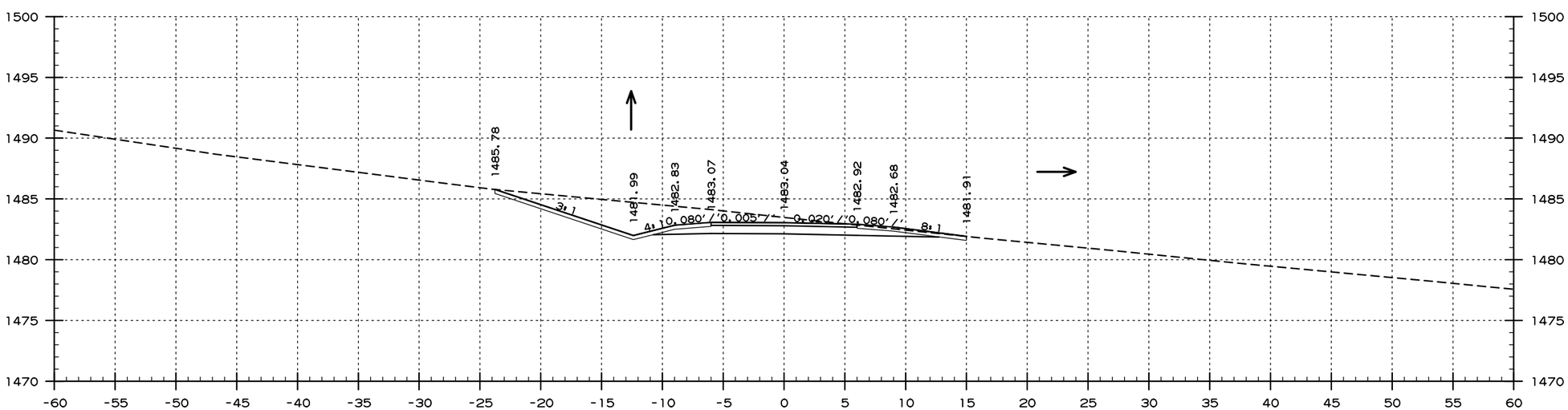
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 53 SQ.FT.
AREA FILL : 0 SQ.FT.

58+46.00

CUT VOLUME : 93 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 0 SQ.FT.

58+00.00

CUT VOLUME : 167 CU.YD.
FILL VOLUME : 4 CU.YD.

SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 58+00 TO STA. 58+46

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

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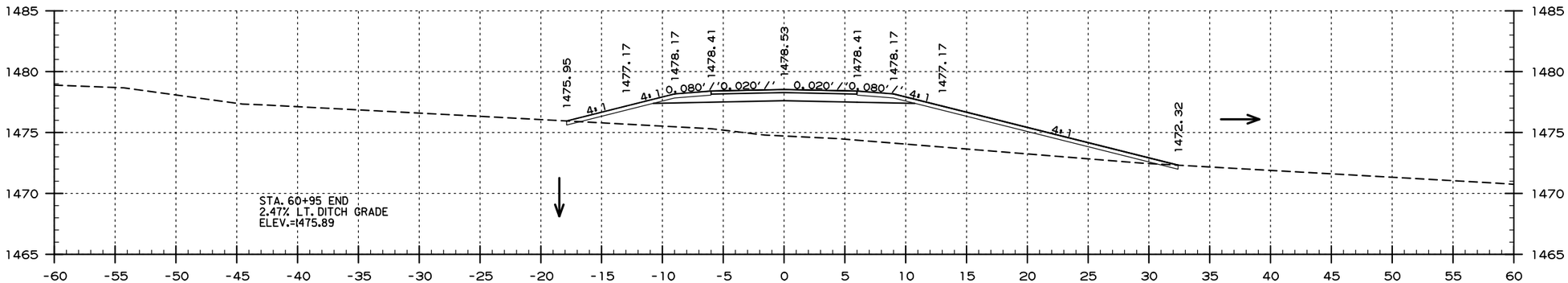
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	92	151

2 CROSS SECTIONS

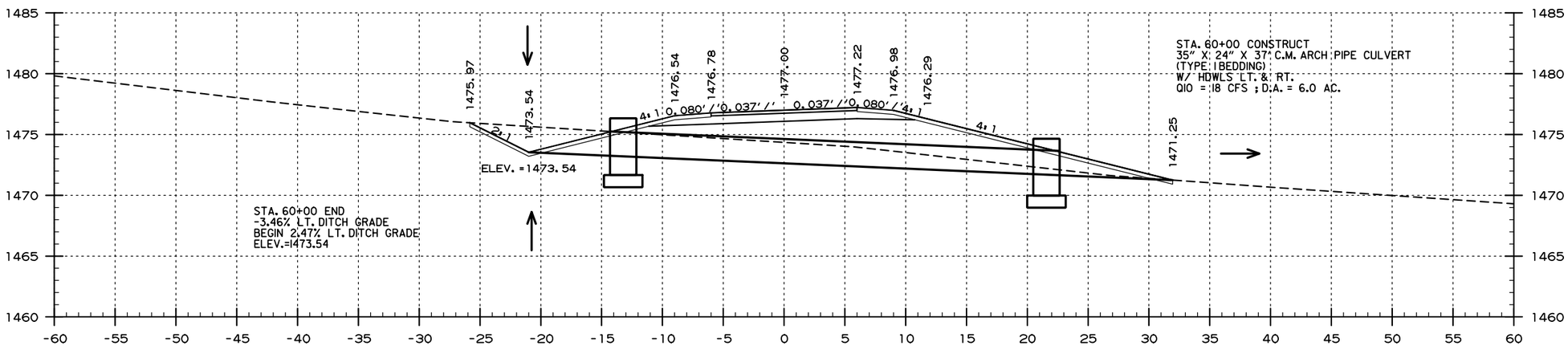
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 0 SQ. FT.
AREA FILL : 114 SQ. FT.

60+97.49 MATCH PARKING

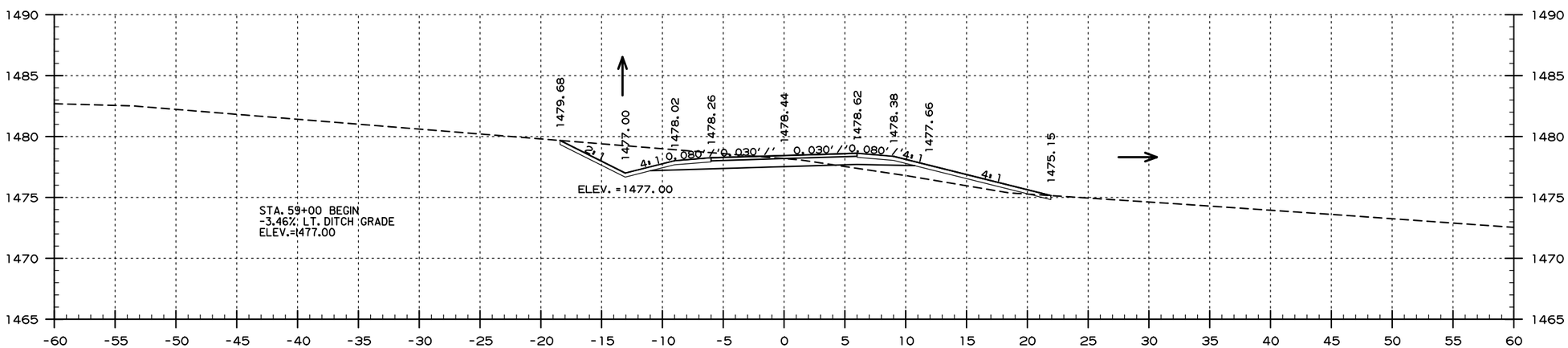
CUT VOLUME : 31 CU. YD.
FILL VOLUME : 325 CU. YD.



AREA CUT : 17 SQ. FT.
AREA FILL : 66 SQ. FT.

60+00.00

CUT VOLUME : 84 CU. YD.
FILL VOLUME : 138 CU. YD.



AREA CUT : 28 SQ. FT.
AREA FILL : 8 SQ. FT.

59+00.00

CUT VOLUME : 82 CU. YD.
FILL VOLUME : 8 CU. YD.

SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 59+00 TO STA. 60+97

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

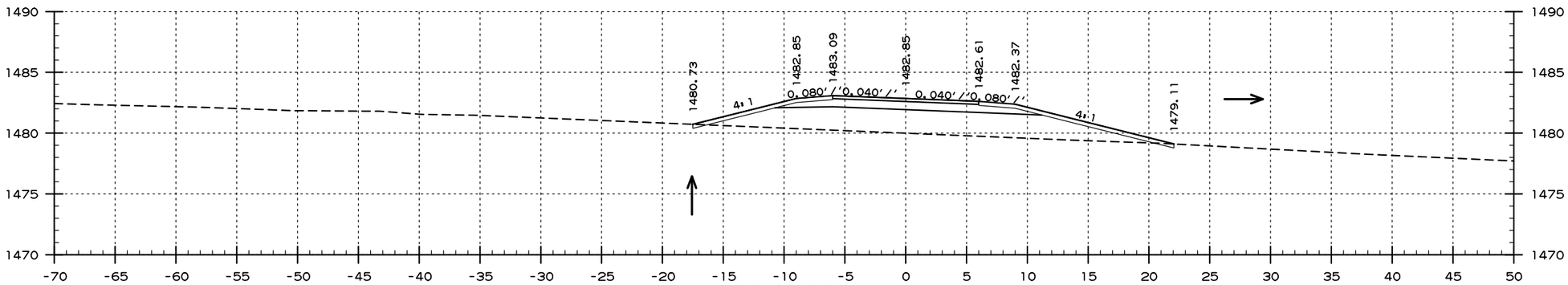
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	93	151

2 CROSS SECTIONS

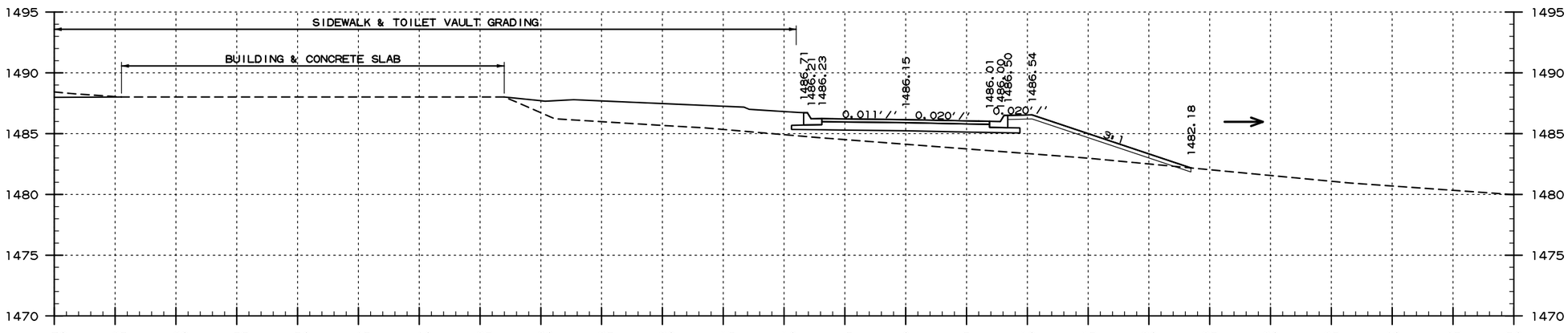
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 0 SQ.FT.
AREA FILL : 56 SQ.FT.

66+00.00

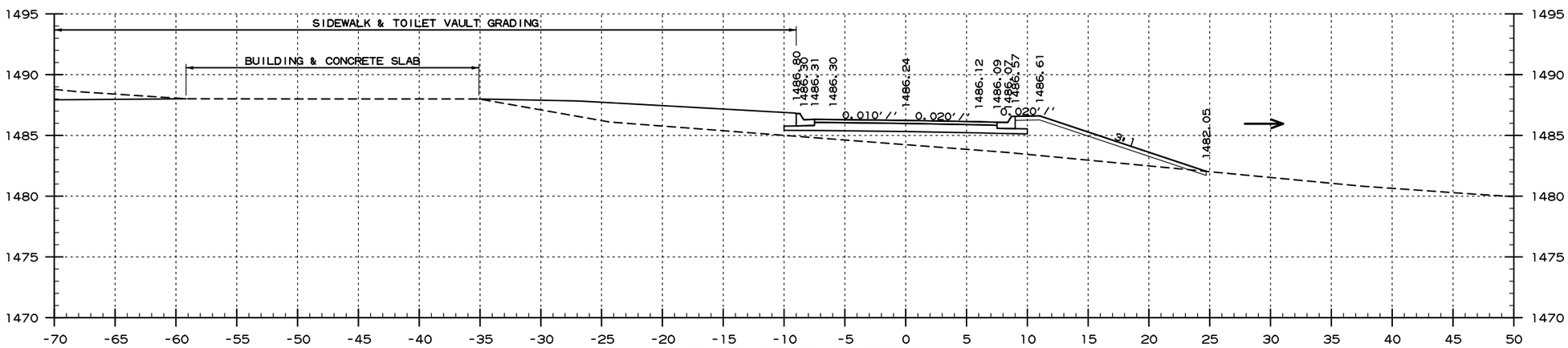
CUT VOLUME : 1 CU.YD.
FILL VOLUME : 178 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 40 SQ.FT.

65+00.00

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 8 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 43 SQ.FT.

64+95.11 MATCH PARKING

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 64+95 TO STA. 66+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

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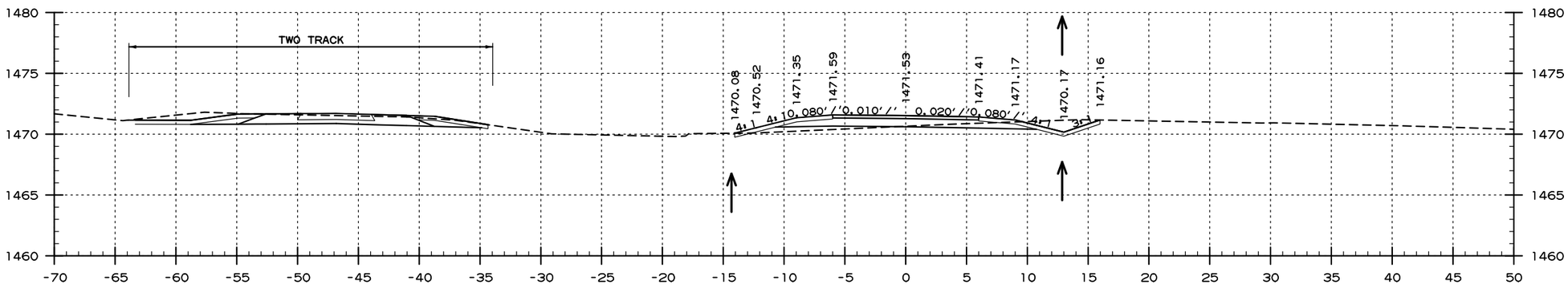
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	94	151

2 CROSS SECTIONS

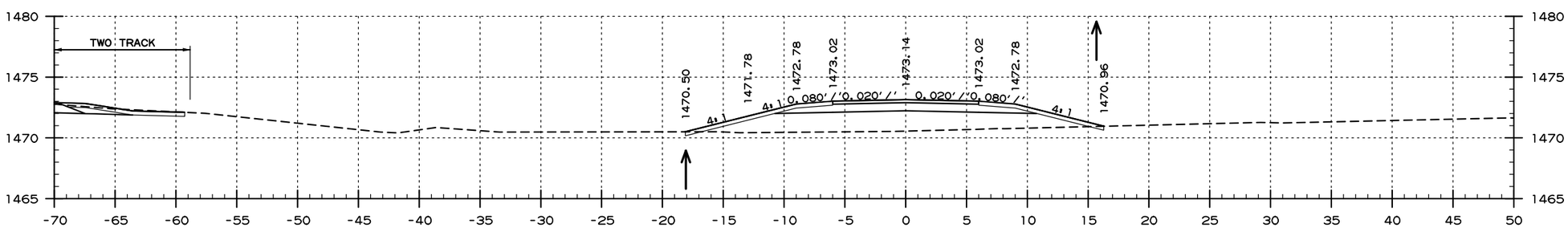
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 6 SQ.FT.
AREA FILL : 14 SQ.FT.

68+50.00

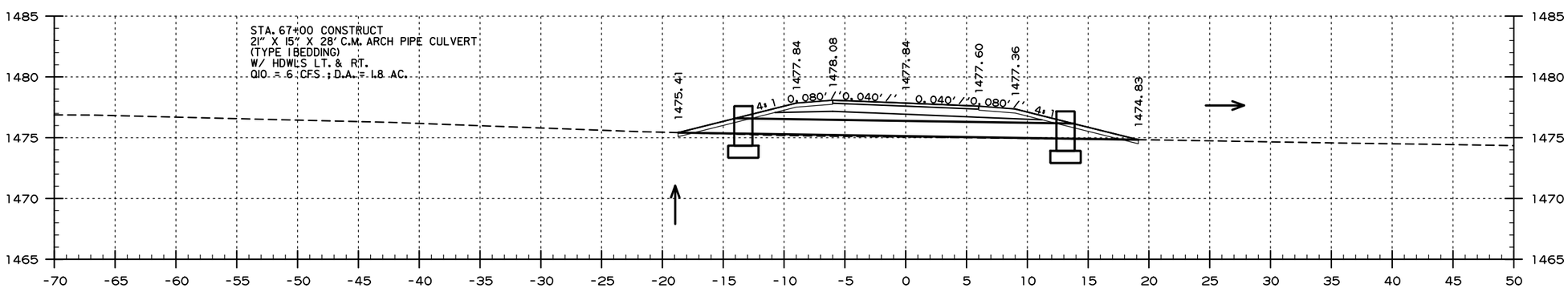
CUT VOLUME : 6 CU.YD.
FILL VOLUME : 50 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 40 SQ.FT.

68+00.00

CUT VOLUME : 2 CU.YD.
FILL VOLUME : 170 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 52 SQ.FT.

67+00.00

CUT VOLUME : 2 CU.YD.
FILL VOLUME : 198 CU.YD.

SITE I
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 67+00 TO STA. 68+50

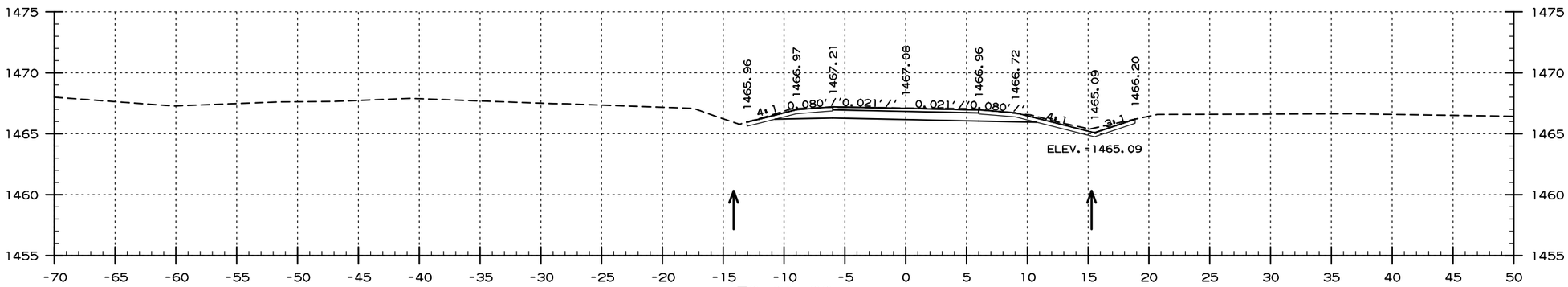
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	95	151

2 CROSS SECTIONS

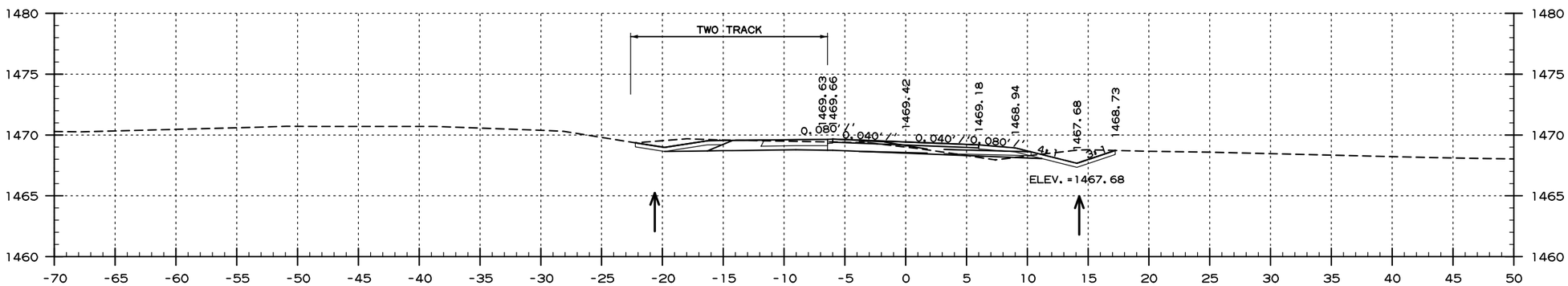
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 24 SQ.FT.
AREA FILL = 0 SQ.FT.

70+00.00

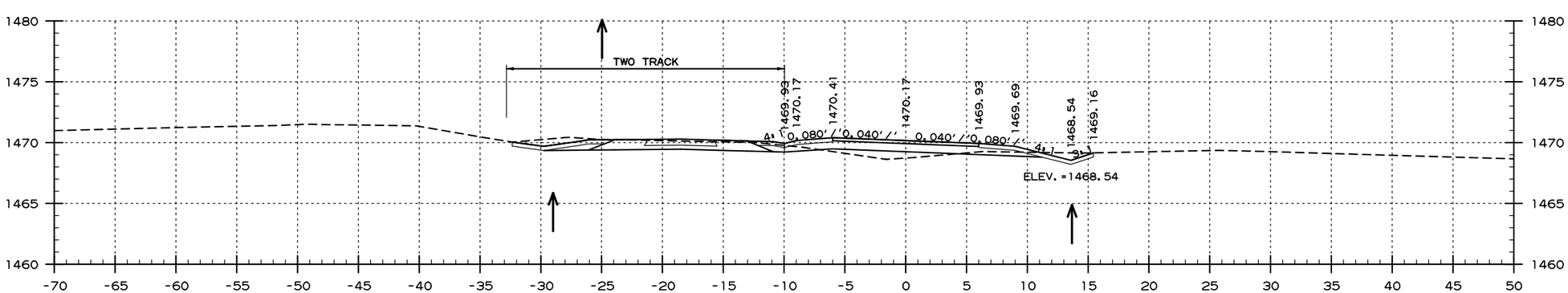
CUT VOLUME = 41 CU.YD.
FILL VOLUME = 7 CU.YD.



AREA CUT = 6 SQ.FT.
AREA FILL = 5 SQ.FT.

69+25.00

CUT VOLUME = 4 CU.YD.
FILL VOLUME = 10 CU.YD.



AREA CUT = 3 SQ.FT.
AREA FILL = 15 SQ.FT.

69+00.00

CUT VOLUME = 8 CU.YD.
FILL VOLUME = 27 CU.YD.

SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 69+00 TO STA. 70+00

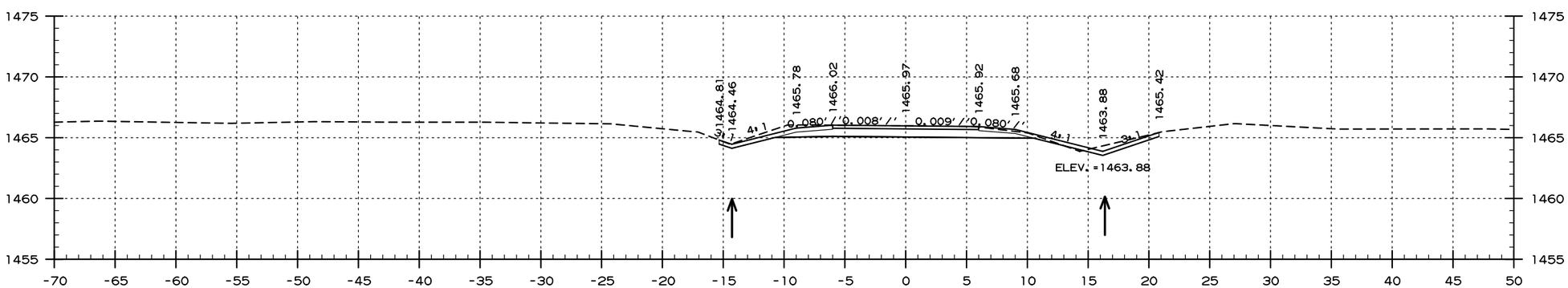
USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	96	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019



AREA CUT : 24 SQ.FT.
AREA FILL : 0 SQ.FT.

70+34.96 MATCH EXISTING

CUT VOLUME : 31 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TAVERN - ONE-WAY TOUR ROAD
STA. 70+35 TO STA. 70+35

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

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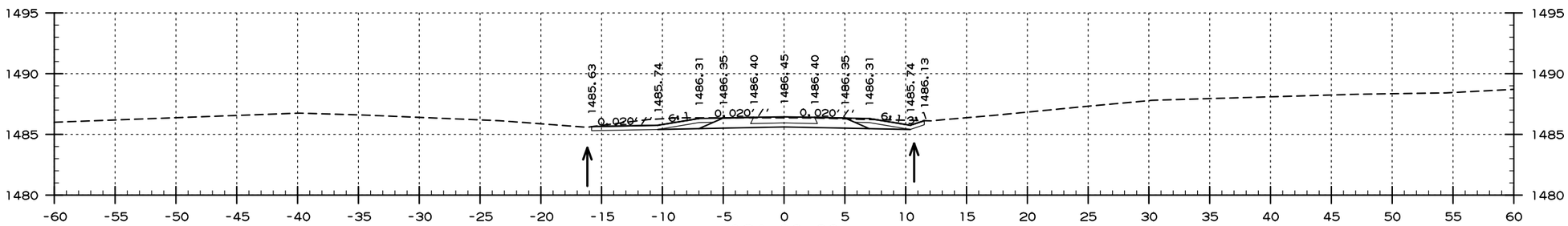
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	97	151

2 CROSS SECTIONS

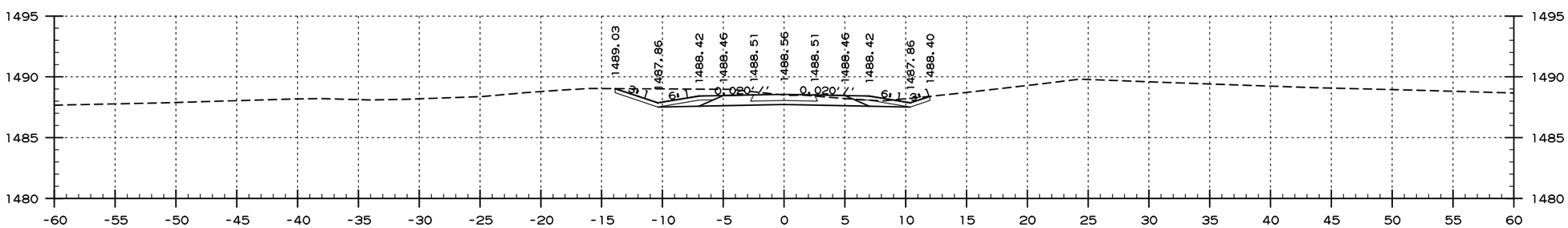
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 21 SQ.FT.
AREA FILL : 0 SQ.FT.

124+00.00

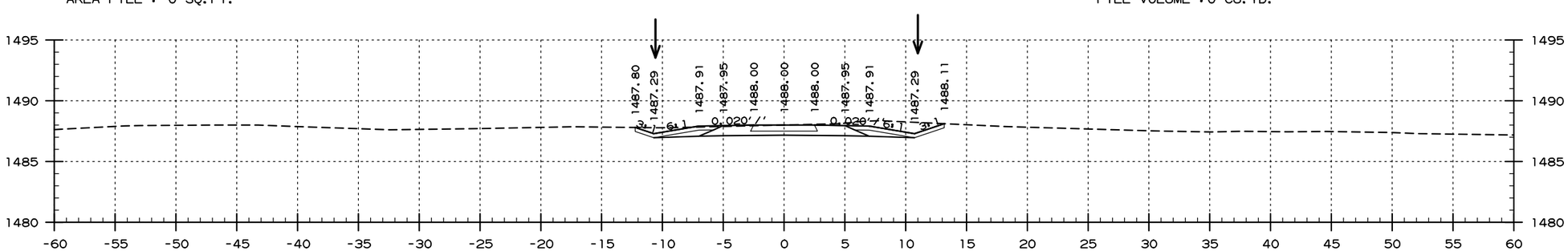
CUT VOLUME : 82 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 24 SQ.FT.
AREA FILL : 0 SQ.FT.

123+00.00

CUT VOLUME : 61 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 23 SQ.FT.
AREA FILL : 0 SQ.FT.

122+30.00 BEGIN CONSTRUCTION

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TAVERN - TWO TRACK
STA. 122+30 TO STA. 124+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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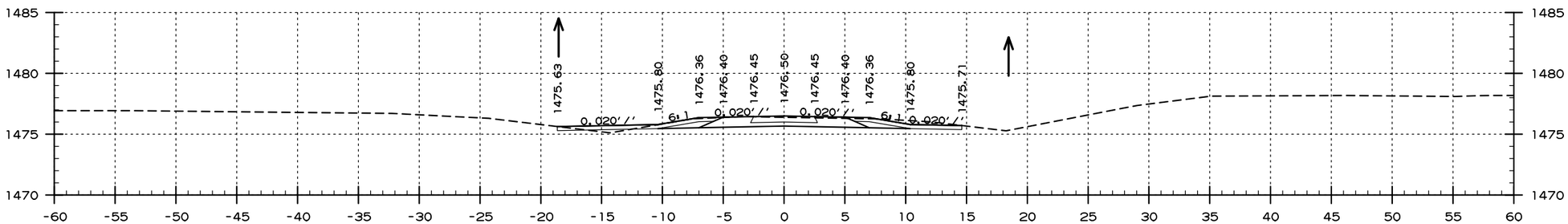
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	98	151

2 CROSS SECTIONS

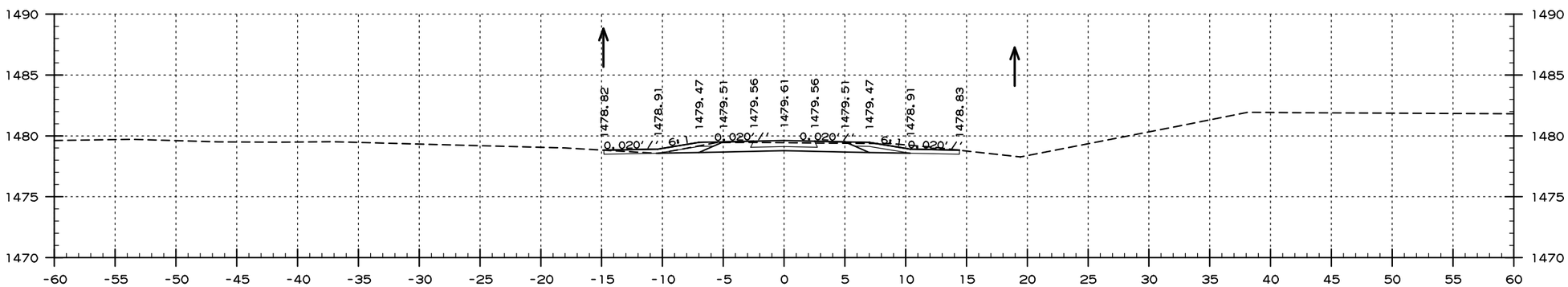
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 18 SQ.FT.
AREA FILL : 0 SQ.FT.

127+00.00

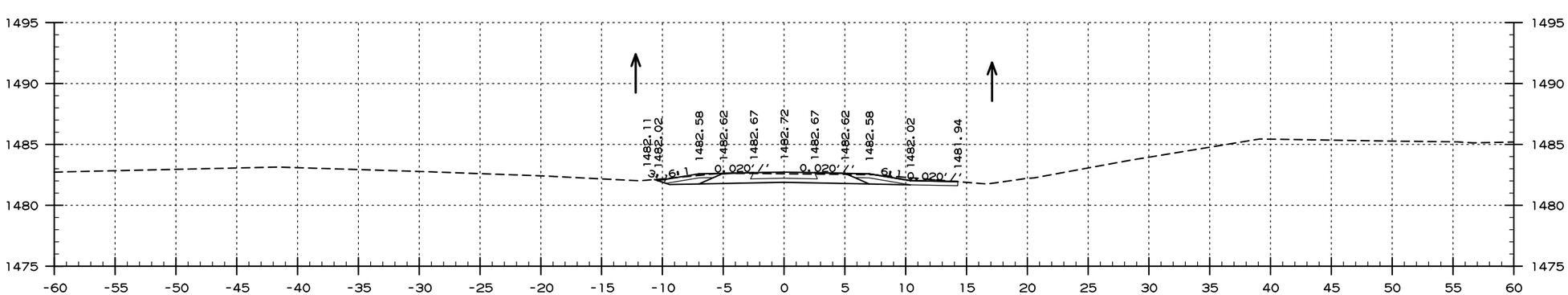
CUT VOLUME : 63 CU.YD.
FILL VOLUME : 1 CU.YD.



AREA CUT : 16 SQ.FT.
AREA FILL : 0 SQ.FT.

126+00.00

CUT VOLUME : 60 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 16 SQ.FT.
AREA FILL : 0 SQ.FT.

125+00.00

CUT VOLUME : 69 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TAVERN - TWO TRACK
STA. 125+00 TO STA. 127+00

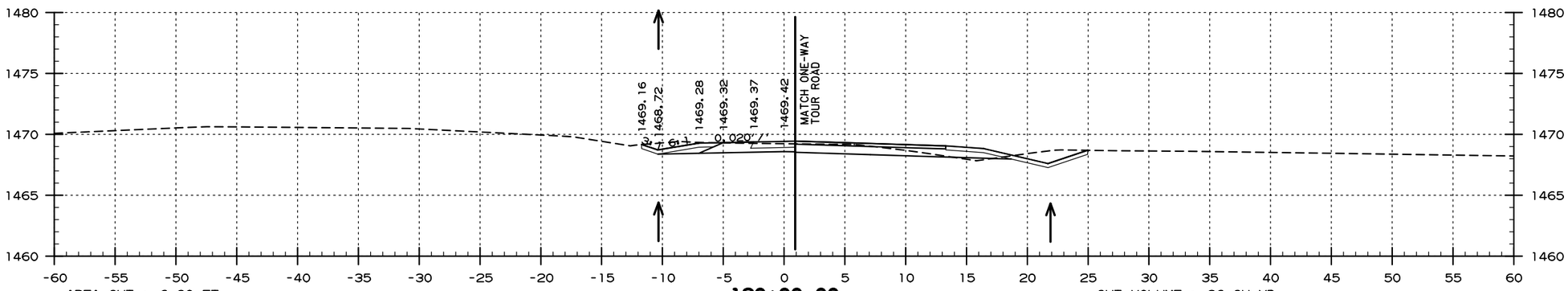
USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	99	151

2 CROSS SECTIONS

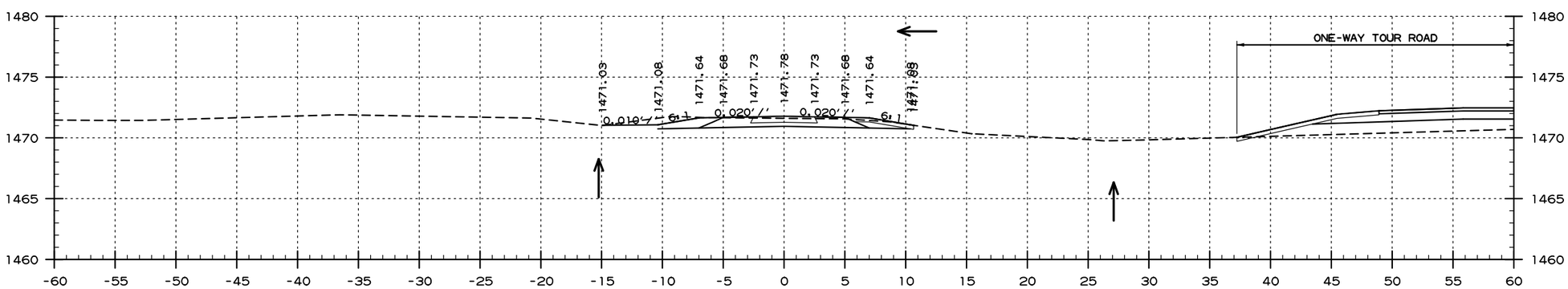
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 6 SQ.FT.
AREA FILL : 0 SQ.FT.

130+00.00

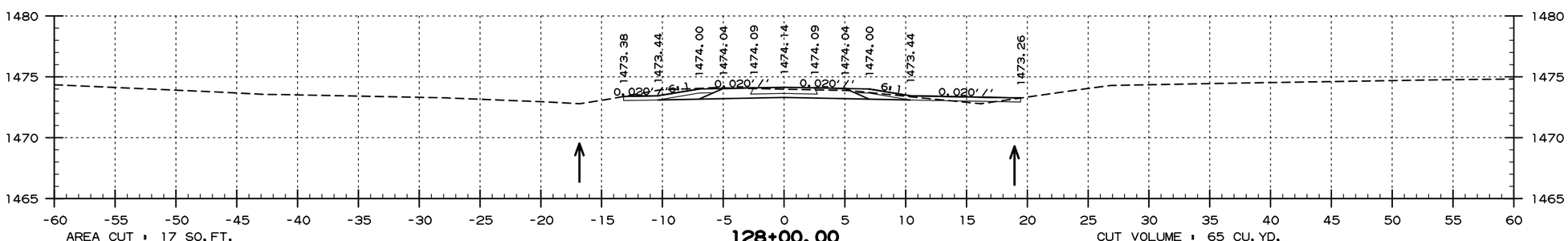
CUT VOLUME : 36 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 14 SQ.FT.
AREA FILL : 0 SQ.FT.

129+00.00

CUT VOLUME : 57 CU.YD.
FILL VOLUME : 1 CU.YD.



AREA CUT : 17 SQ.FT.
AREA FILL : 0 SQ.FT.

128+00.00

CUT VOLUME : 65 CU.YD.
FILL VOLUME : 2 CU.YD.

SITE 1
ELKHORN TAVERN - TWO TRACK
STA. 128+00 TO STA. 130+00

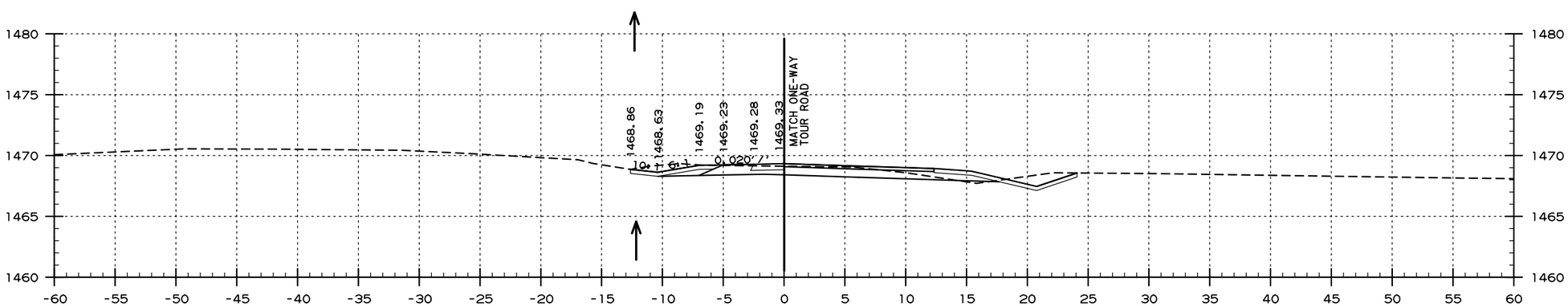
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	100	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019



AREA CUT : 10 SQ.FT.
AREA FILL : 0 SQ.FT.

130+03.83 MATCH ONE-WAY TOUR ROAD

CUT VOLUME : 1 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TAVERN - TWO TRACK
STA. 130+04 TO STA. 130+04

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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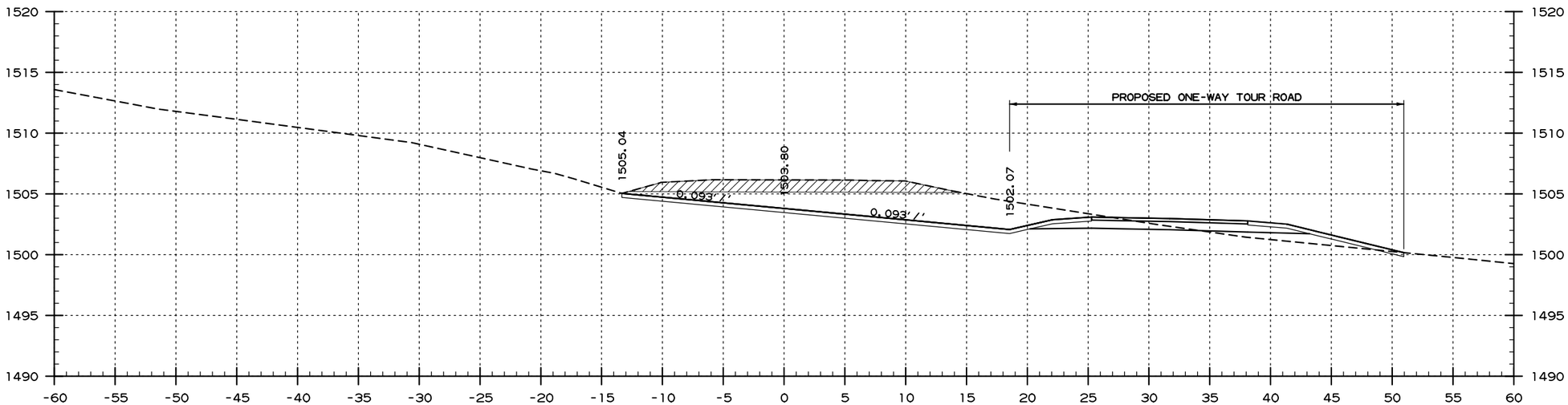
EXISTING PAVEMENT REMOVAL/12" UNDERCUT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	101	151

2 CROSS SECTIONS

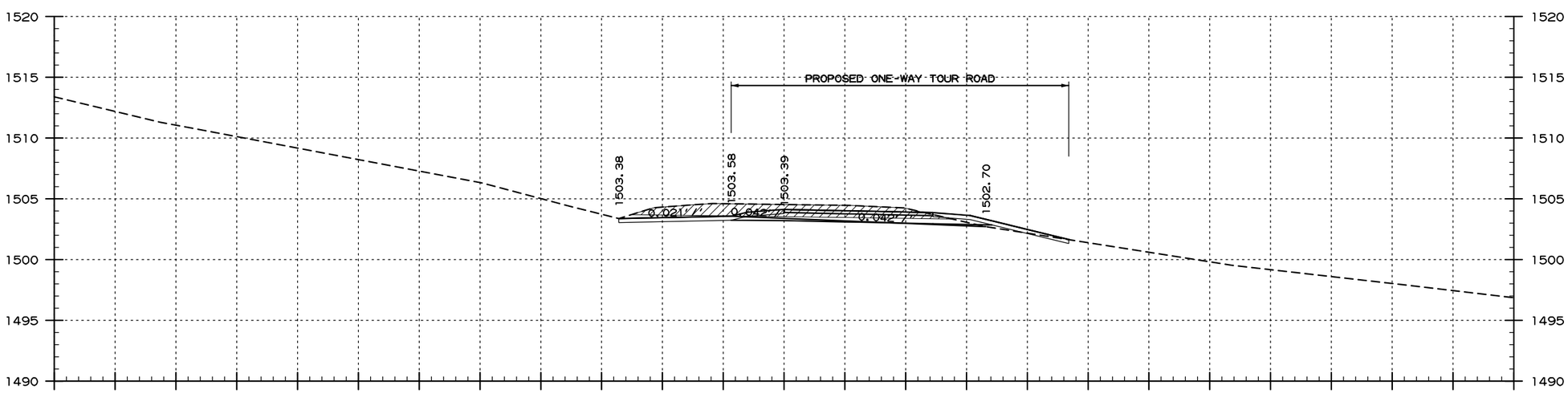
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 80 SQ.FT.
AREA FILL : 0 SQ.FT.

105+00.00

CUT VOLUME : 162 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 29 SQ.FT.
AREA FILL : 0 SQ.FT.

104+19.59 BEGIN SITE 1 DEMO

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 104+20 TO STA. 105+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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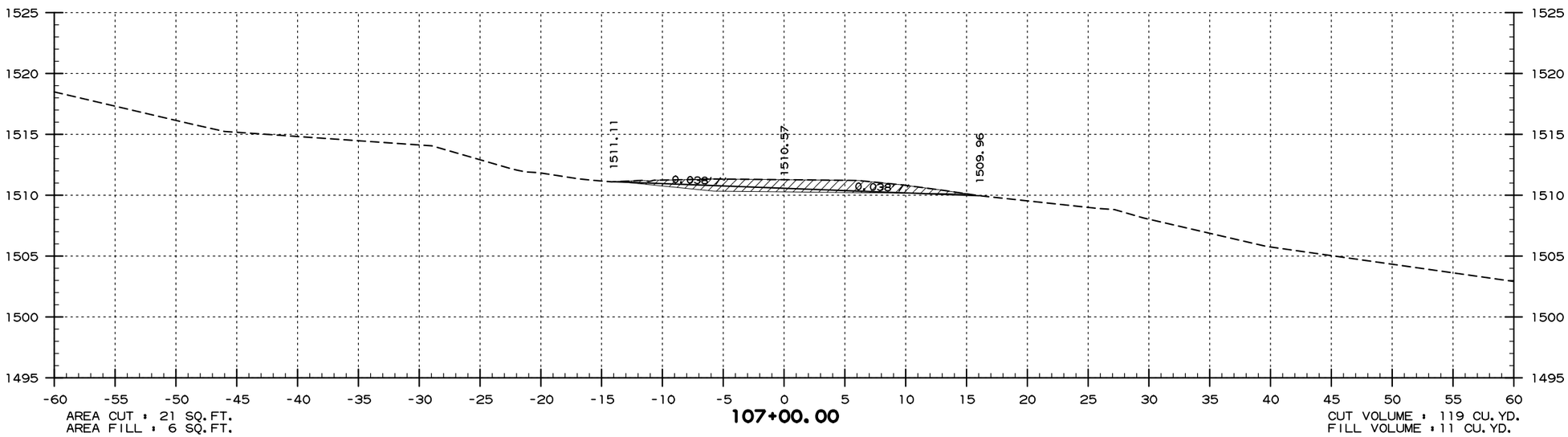
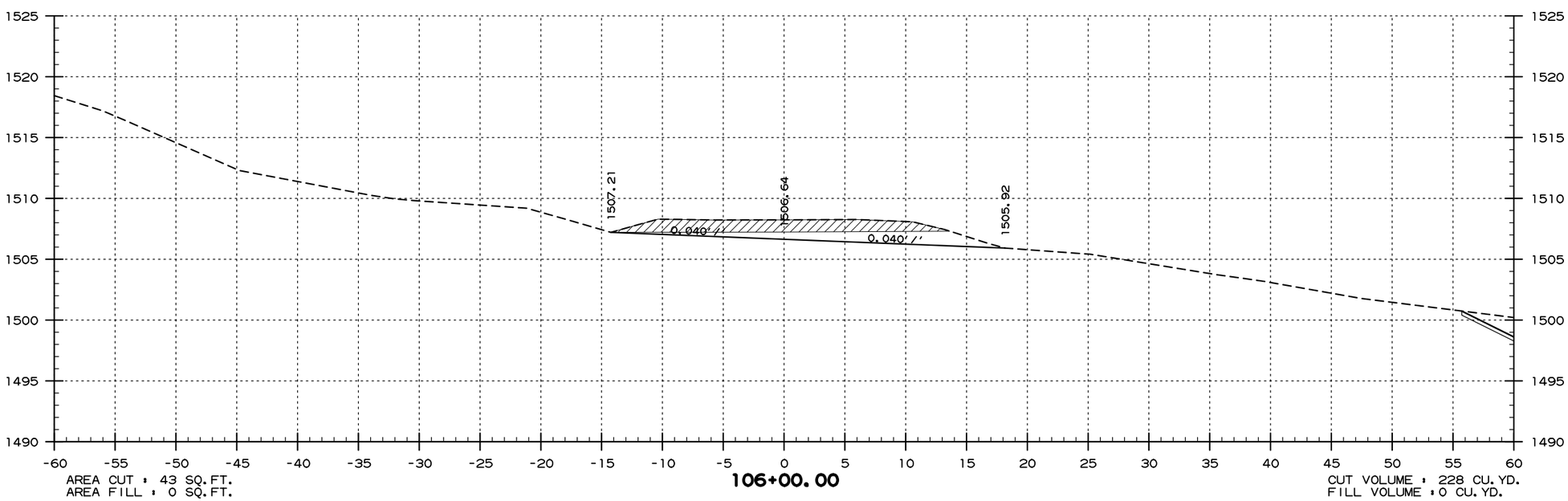
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	102	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019





SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 106+00 TO STA. 107+00

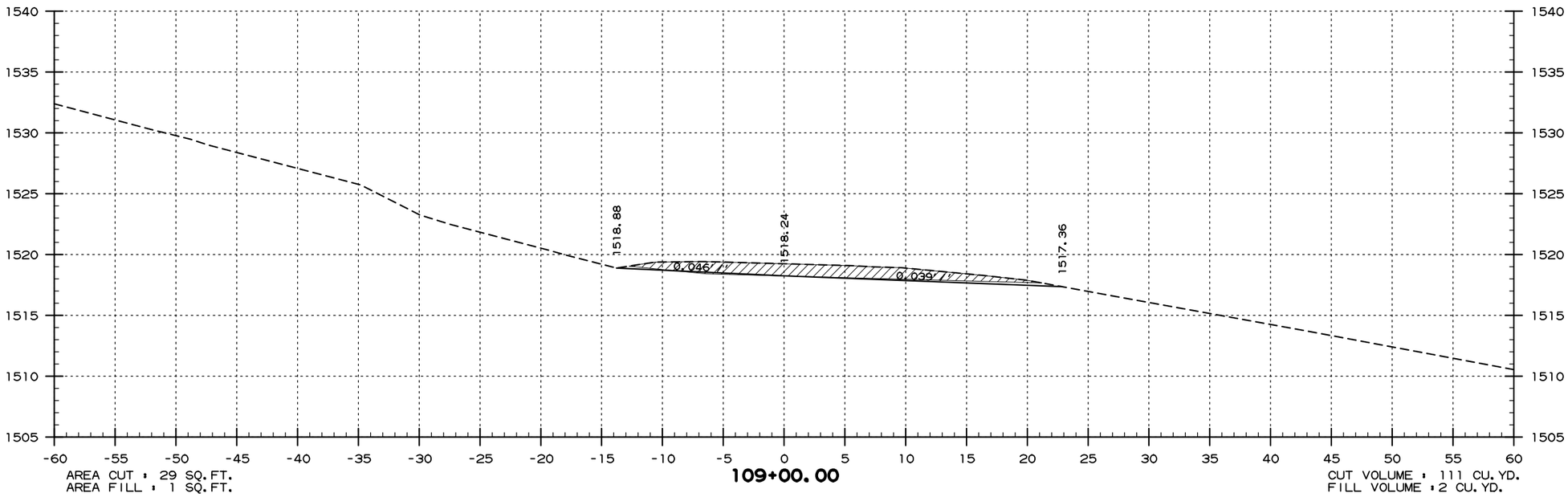
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

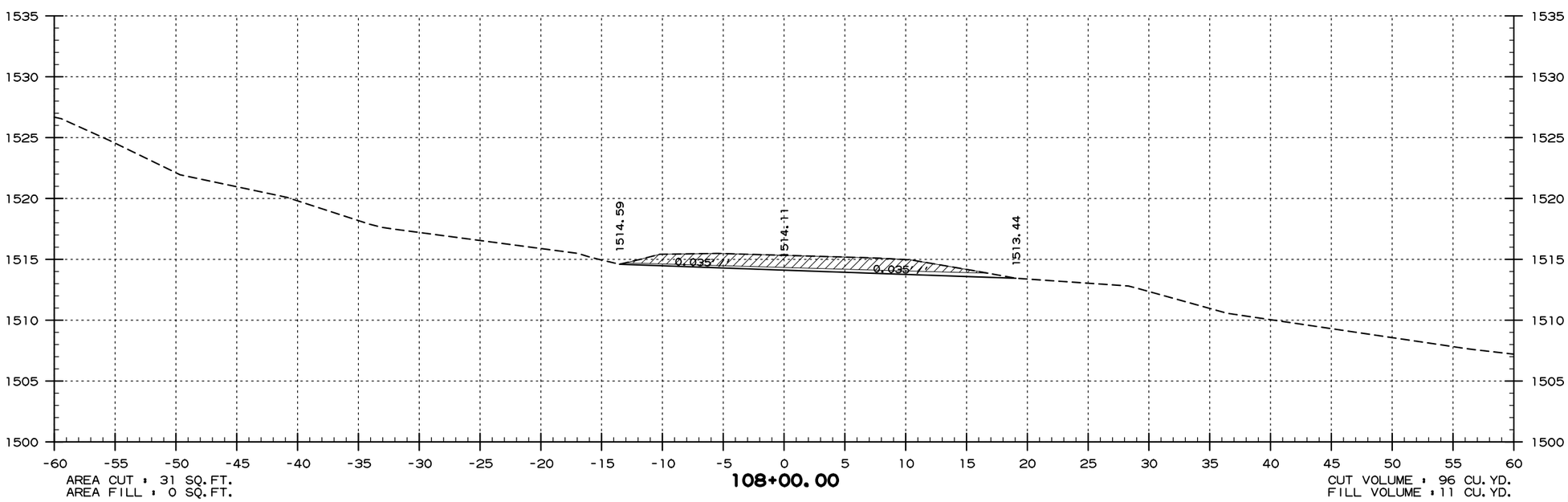
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	103	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019





SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 108+00 TO STA. 109+00

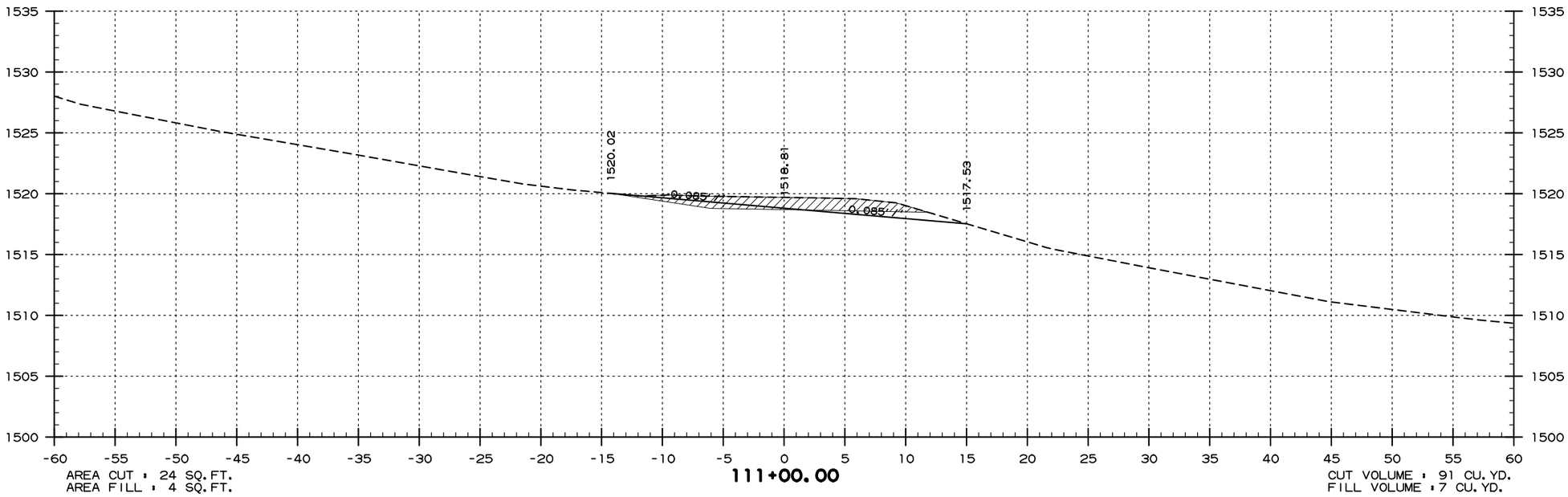
USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	104	151

2 CROSS SECTIONS

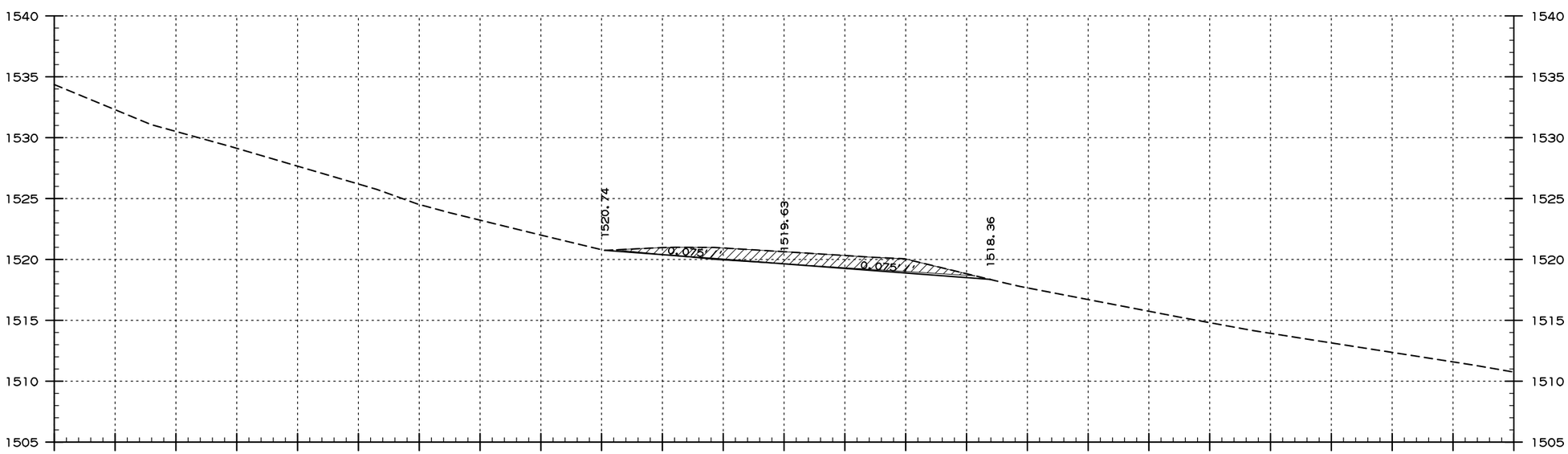
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 24 SQ.FT.
AREA FILL : 4 SQ.FT.

111+00.00

CUT VOLUME : 91 CU.YD.
FILL VOLUME : 7 CU.YD.



AREA CUT : 25 SQ.FT.
AREA FILL : 0 SQ.FT.

110+00.00

CUT VOLUME : 100 CU.YD.
FILL VOLUME : 2 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 110+00 TO STA. 111+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

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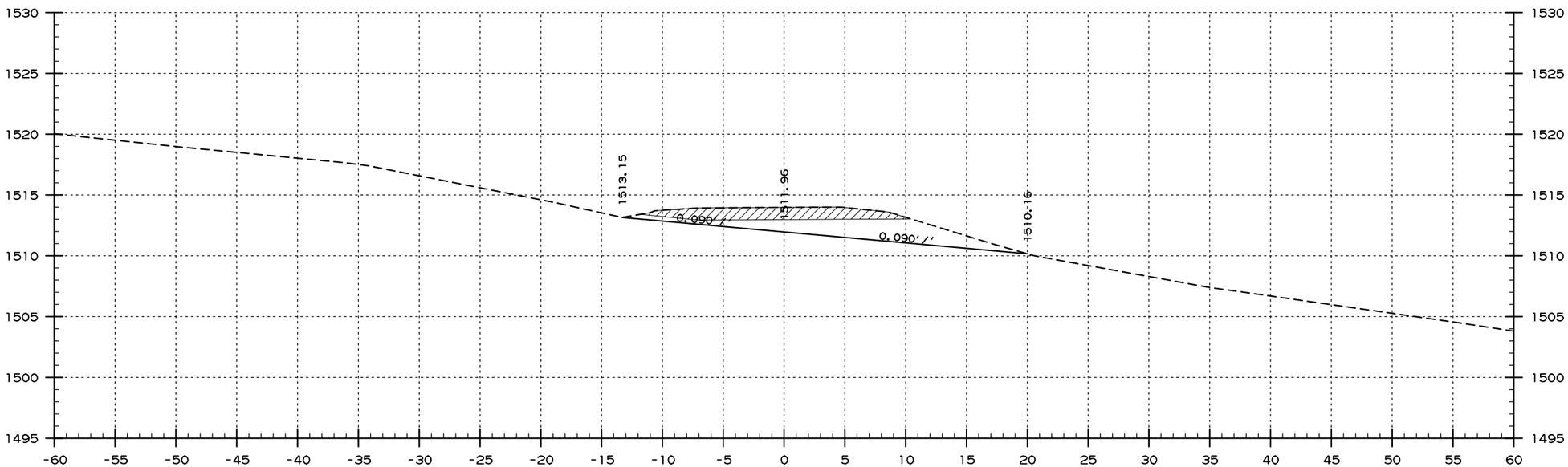
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	105	151

2 CROSS SECTIONS

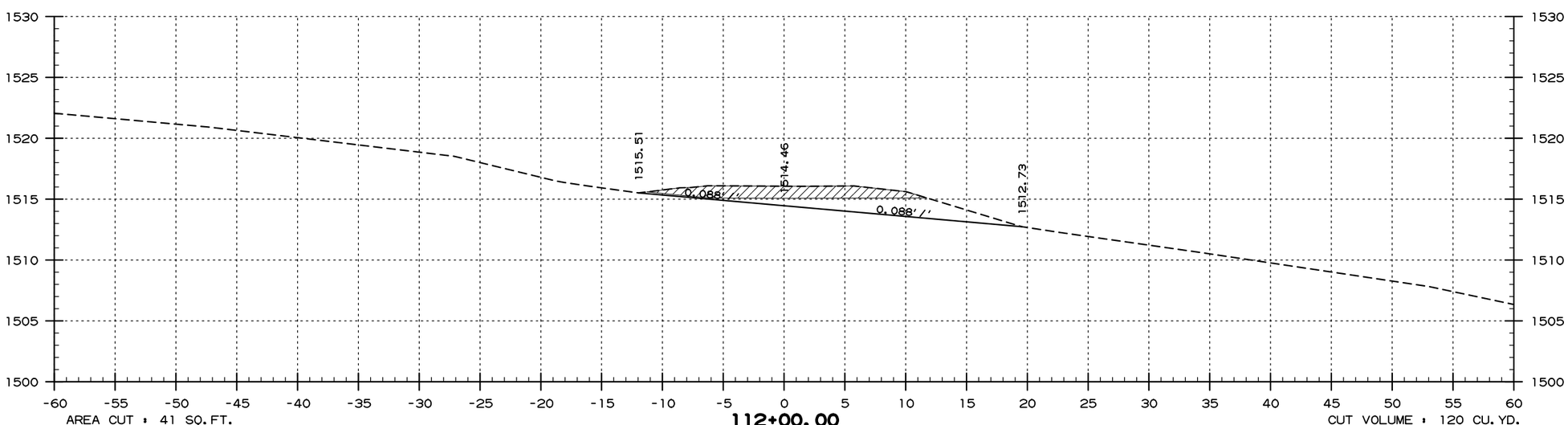
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 50 SQ.FT.
AREA FILL : 0 SQ.FT.

113+00.00

CUT VOLUME : 169 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 41 SQ.FT.
AREA FILL : 0 SQ.FT.

112+00.00

CUT VOLUME : 120 CU.YD.
FILL VOLUME : 7 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 112+00 TO STA. 113+00

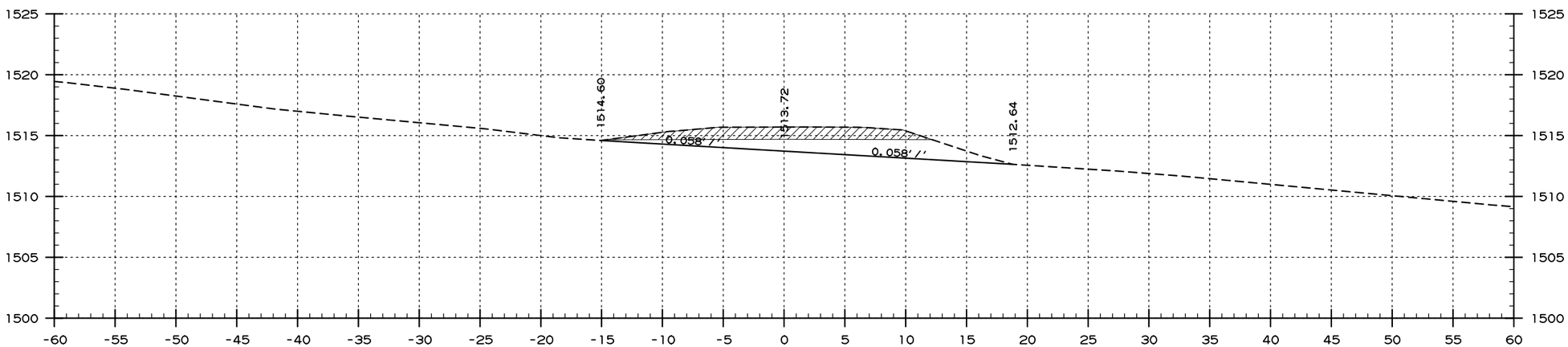
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	106	151

2 CROSS SECTIONS

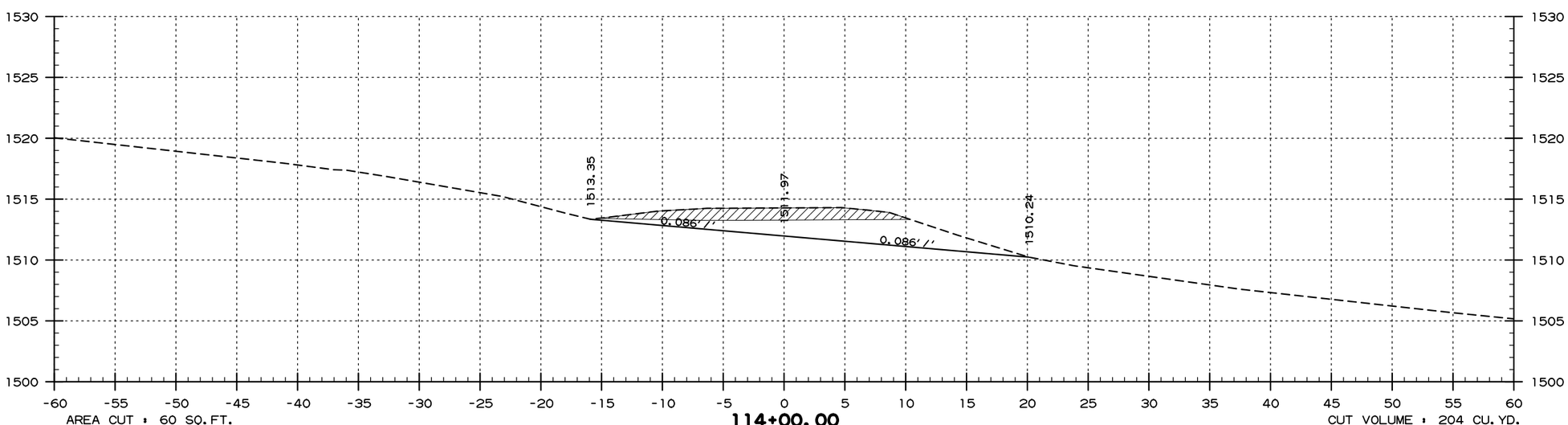
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 50 SQ.FT.
AREA FILL : 0 SQ.FT.

115+00.00

CUT VOLUME : 204 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 60 SQ.FT.
AREA FILL : 0 SQ.FT.

114+00.00

CUT VOLUME : 204 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 114+00 TO STA. 115+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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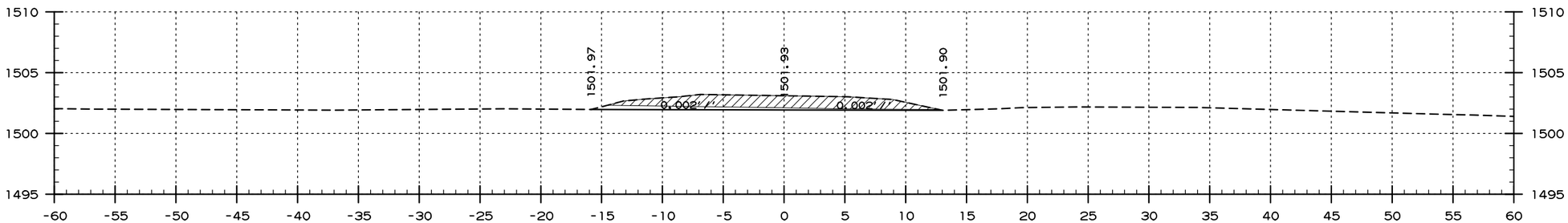
6	ARK.			
JOB NO.		090384	107	151

2 CROSS SECTIONS

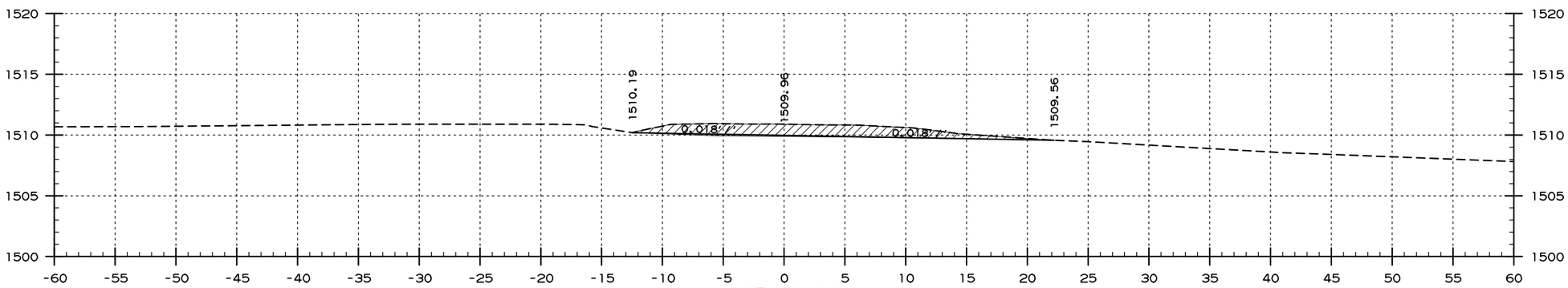
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 26 SQ.FT.
AREA FILL : 0 SQ.FT.

118+00.00

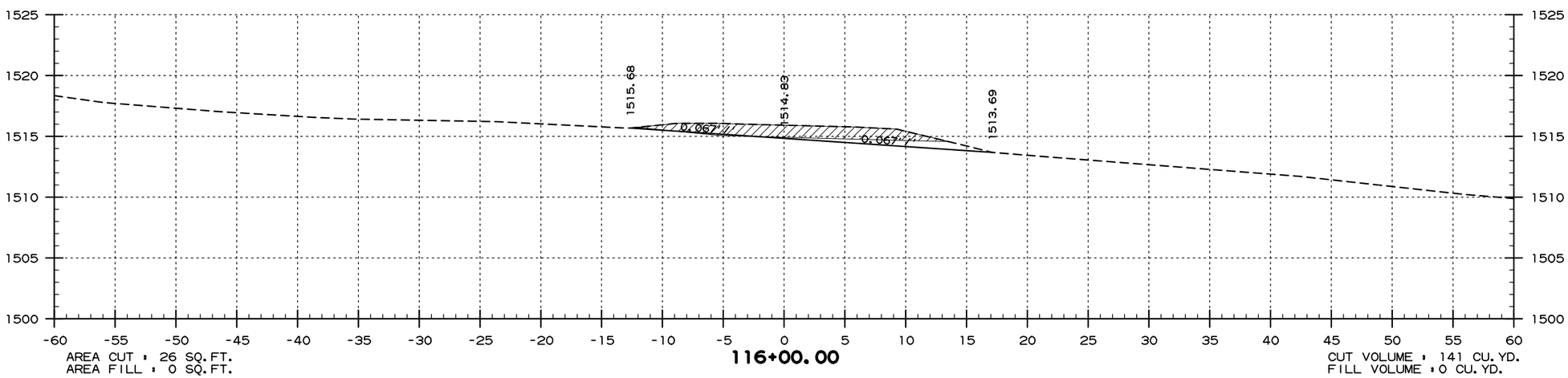
CUT VOLUME : 93 CU.YD.
FILL VOLUME : 4 CU.YD.



AREA CUT : 24 SQ.FT.
AREA FILL : 2 SQ.FT.

117+00.00

CUT VOLUME : 93 CU.YD.
FILL VOLUME : 4 CU.YD.



AREA CUT : 26 SQ.FT.
AREA FILL : 0 SQ.FT.

116+00.00

CUT VOLUME : 141 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 116+00 TO STA. 118+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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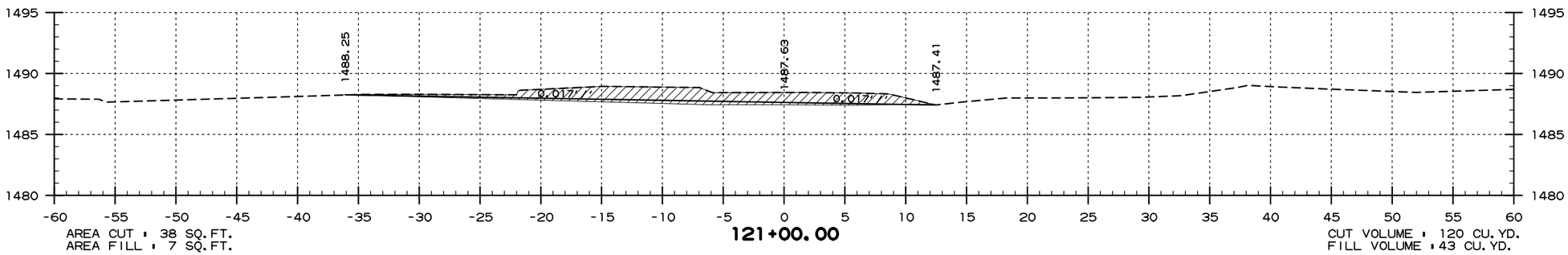
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	108	151

2 CROSS SECTIONS

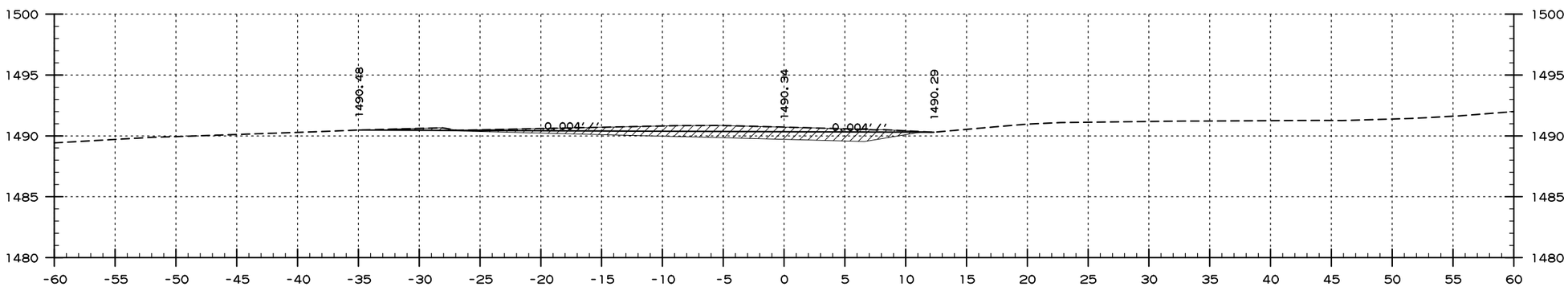
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 38 SQ.FT.
AREA FILL = 7 SQ.FT.

121+00.00

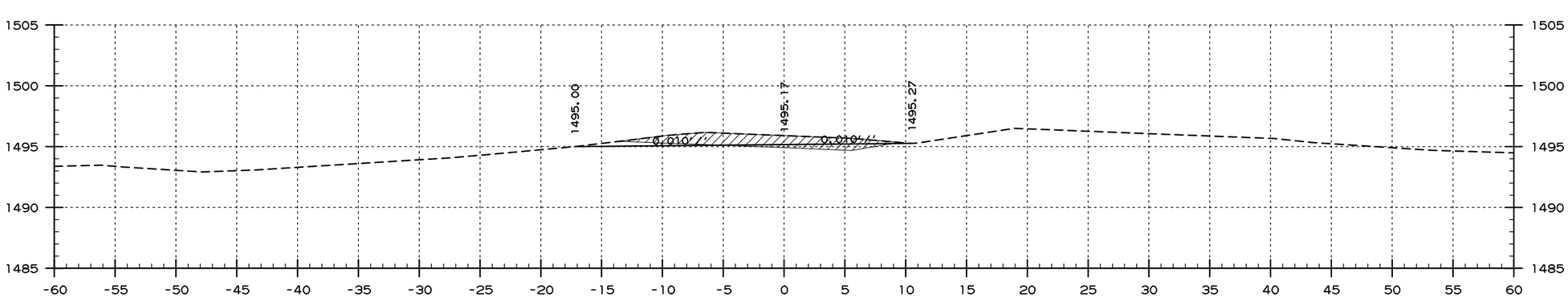
CUT VOLUME = 120 CU.YD.
FILL VOLUME = 43 CU.YD.



AREA CUT = 27 SQ.FT.
AREA FILL = 16 SQ.FT.

120+00.00

CUT VOLUME = 87 CU.YD.
FILL VOLUME = 37 CU.YD.



AREA CUT = 20 SQ.FT.
AREA FILL = 4 SQ.FT.

119+00.00

CUT VOLUME = 85 CU.YD.
FILL VOLUME = 7 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 119+00 TO STA. 121+00

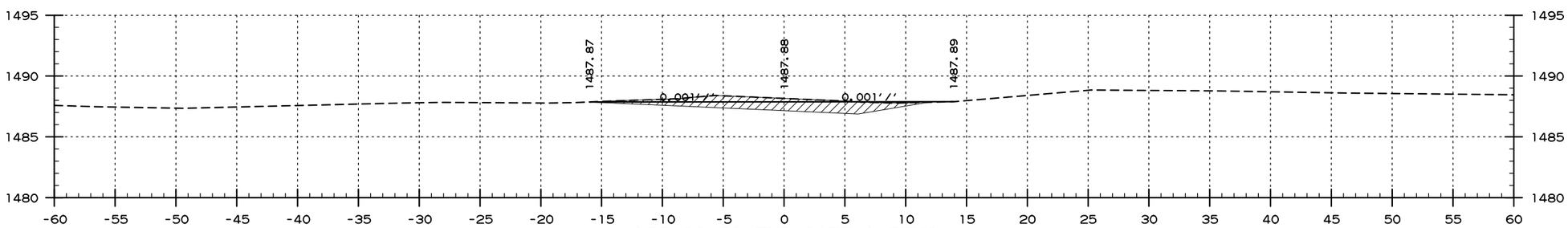
USER: f6513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	109	151

2 CROSS SECTIONS

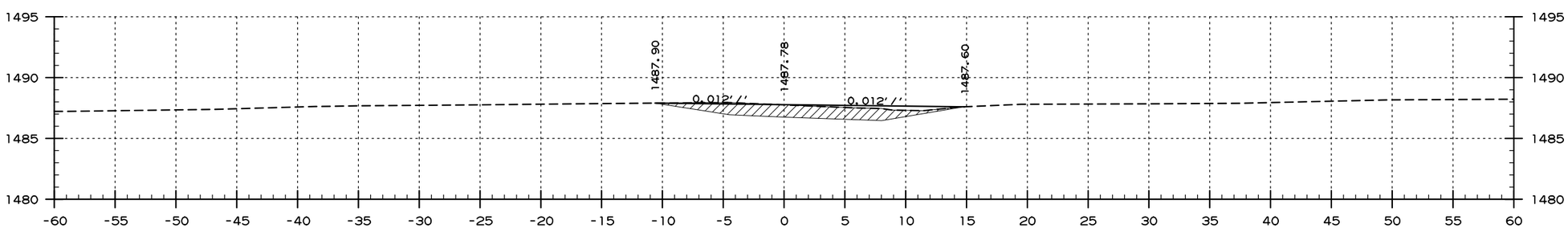
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 19 SQ.FT.
AREA FILL : 14 SQ.FT.

122+39.21 END SITE 1 DEMO

CUT VOLUME : 27 CU.YD.
FILL VOLUME : 25 CU.YD.



AREA CUT : 18 SQ.FT.
AREA FILL : 20 SQ.FT.

122+00.00

CUT VOLUME : 104 CU.YD.
FILL VOLUME : 50 CU.YD.

SITE 1
ELKHORN TOUR ROAD - DEMO
STA. 122+00 TO STA. 122+39

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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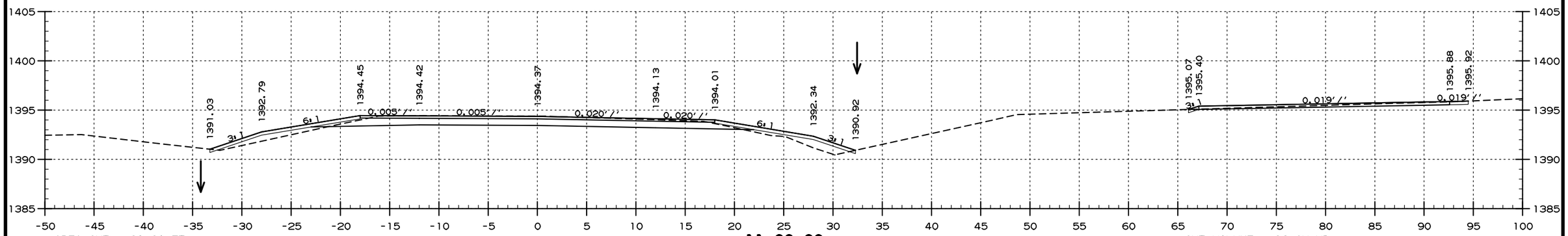
6	ARK.			
JOB NO.		090384	110	151

2 CROSS SECTIONS

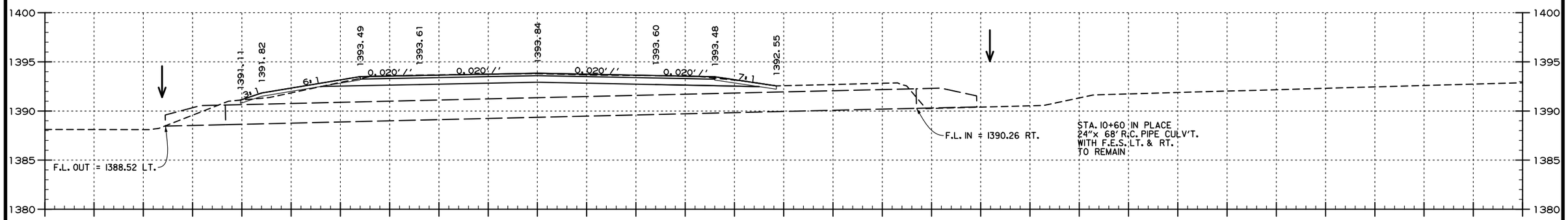
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 39 SQ.FT.
AREA FILL = 9 SQ.FT.

11+00.00

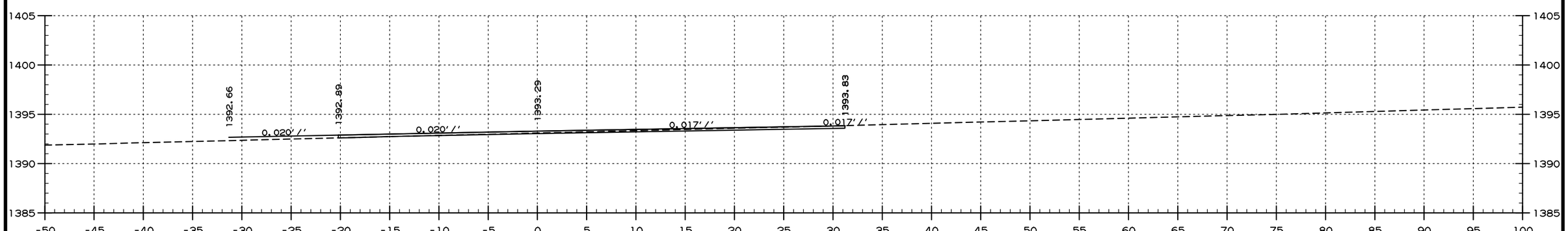
CUT VOLUME = 36 CU.YD.
FILL VOLUME = 7 CU.YD.



AREA CUT = 9 SQ.FT.
AREA FILL = 1 SQ.FT.

10+60.00

CUT VOLUME = 7 CU.YD.
FILL VOLUME = 2 CU.YD.



AREA CUT = 5 SQ.FT.
AREA FILL = 3 SQ.FT.

10+31.50 BEGIN SITE 2

CUT VOLUME = 0 CU.YD.
FILL VOLUME = 0 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 10+32 TO STA. 11+00

USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

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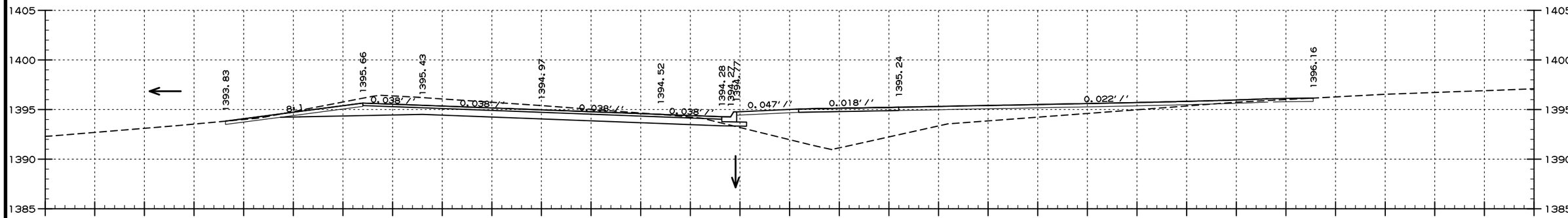
6	ARK.			
JOB NO.		090384	III	151

2 CROSS SECTIONS

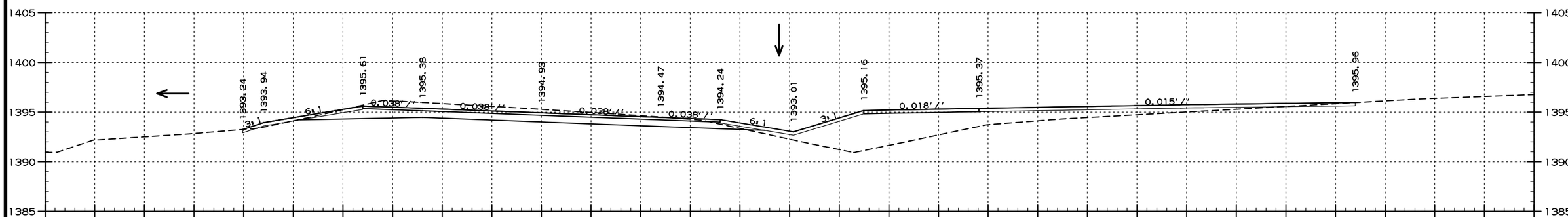
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 58 SQ.FT.
AREA FILL : 86 SQ.FT.

12+25.00

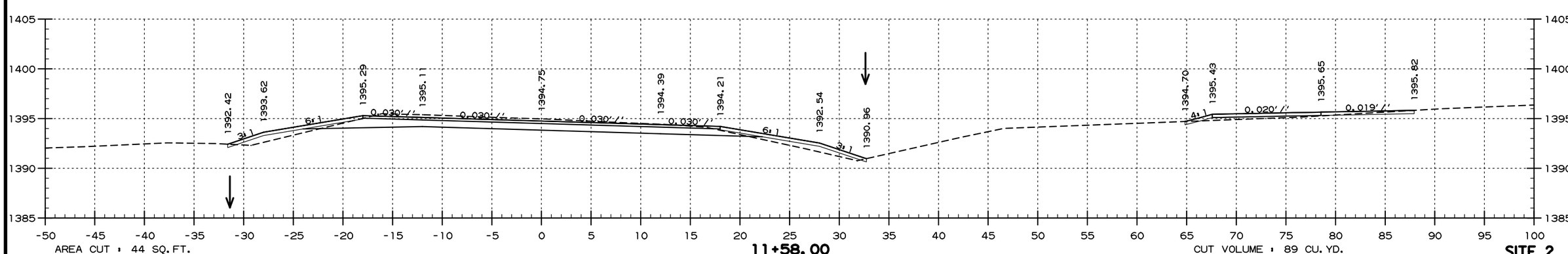
CUT VOLUME : 50 CU.YD.
FILL VOLUME : 71 CU.YD.



AREA CUT : 51 SQ.FT.
AREA FILL : 68 SQ.FT.

12+00.00

CUT VOLUME : 74 CU.YD.
FILL VOLUME : 61 CU.YD.



AREA CUT : 44 SQ.FT.
AREA FILL : 10 SQ.FT.

11+58.00

CUT VOLUME : 89 CU.YD.
FILL VOLUME : 20 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 11+58 TO STA. 12+25

USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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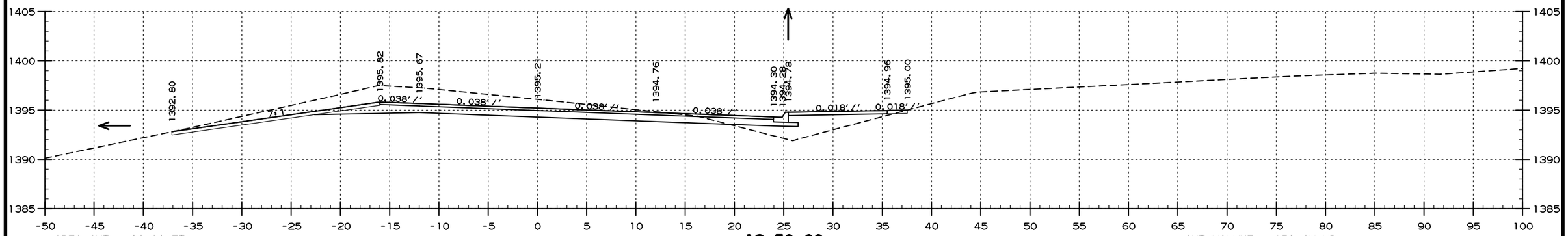
6	ARK.			
JOB NO.		090384	112	151

2 CROSS SECTIONS

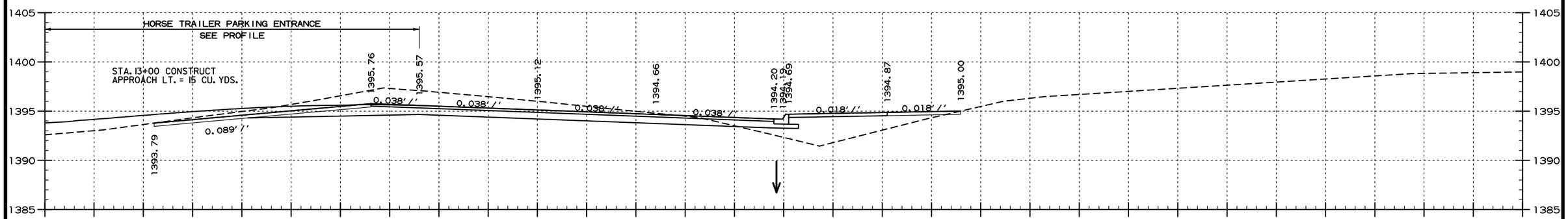
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 86 SQ.FT.
AREA FILL = 18 SQ.FT.

13+50.00

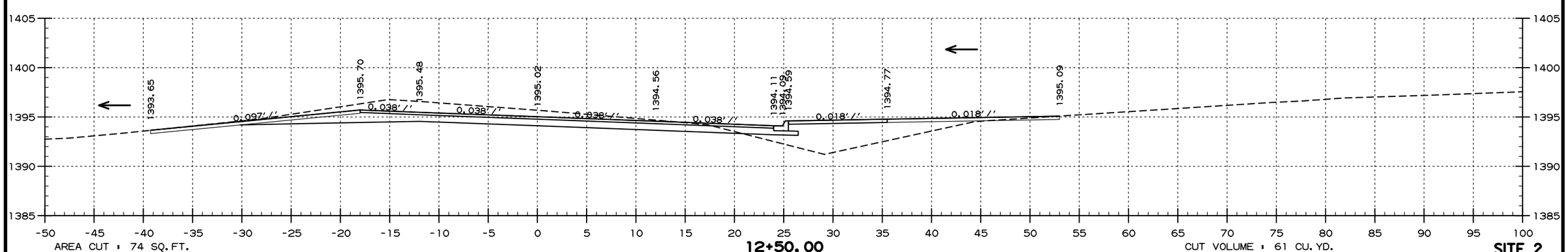
CUT VOLUME = 159 CU.YD.
FILL VOLUME = 44 CU.YD.



AREA CUT = 86 SQ.FT.
AREA FILL = 29 SQ.FT.

13+00.00

CUT VOLUME = 148 CU.YD.
FILL VOLUME = 60 CU.YD.



AREA CUT = 74 SQ.FT.
AREA FILL = 36 SQ.FT.

12+50.00

CUT VOLUME = 61 CU.YD.
FILL VOLUME = 56 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 12+50 TO STA. 13+50

USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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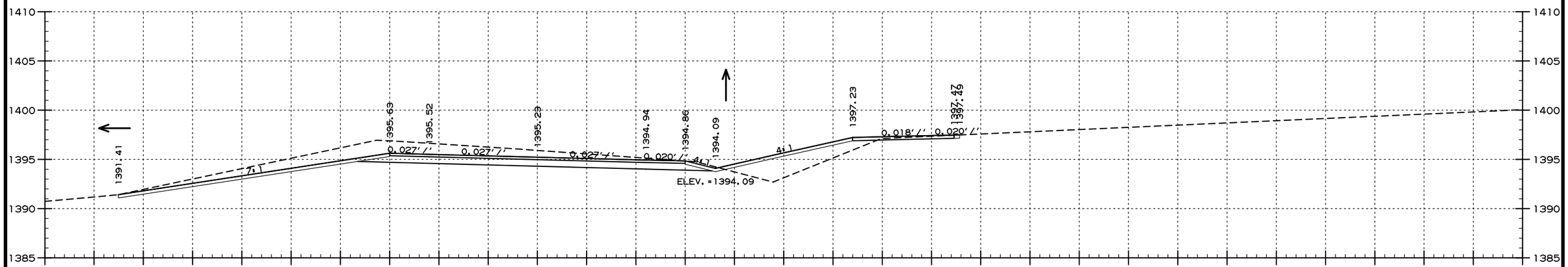
JOB NO.		090384	113	151

2 CROSS SECTIONS

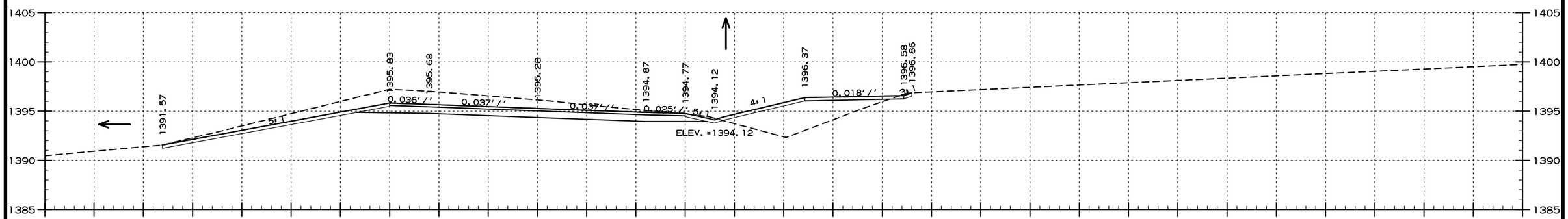
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 84 SQ.FT.
AREA FILL = 21 SQ.FT.

14+34.00

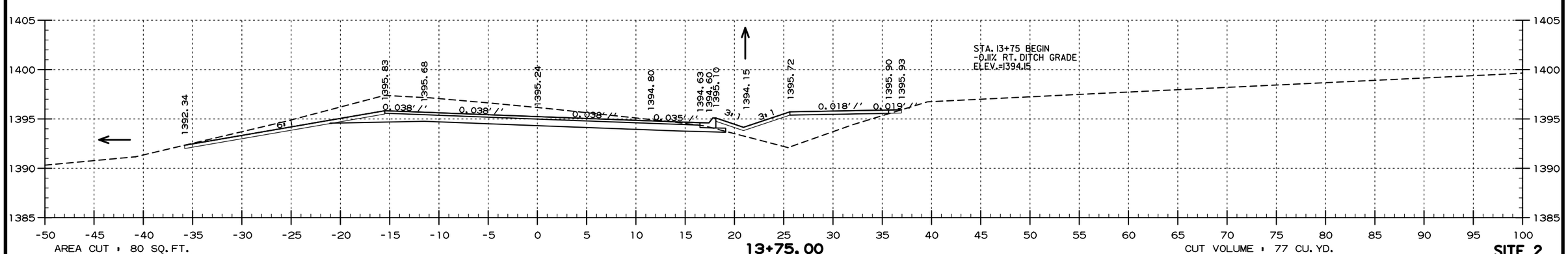
CUT VOLUME = 102 CU.YD.
FILL VOLUME = 31 CU.YD.



AREA CUT = 78 SQ.FT.
AREA FILL = 29 SQ.FT.

14+00.00

CUT VOLUME = 73 CU.YD.
FILL VOLUME = 26 CU.YD.



AREA CUT = 80 SQ.FT.
AREA FILL = 27 SQ.FT.

13+75.00

CUT VOLUME = 77 CU.YD.
FILL VOLUME = 21 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 13+75 TO STA. 14+34

USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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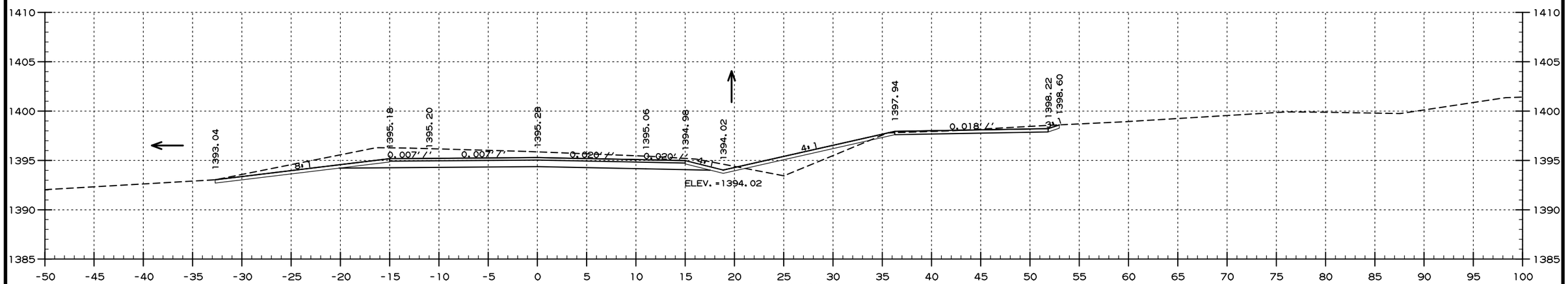
2 CROSS SECTIONS

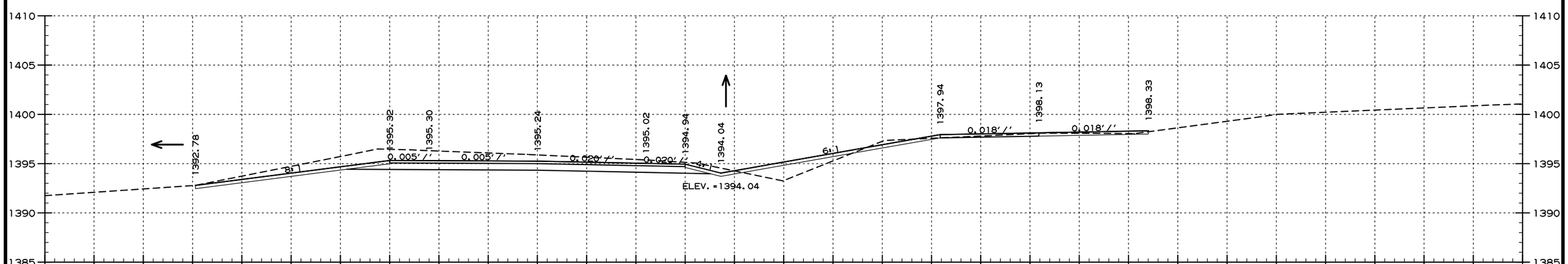
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 78 SQ.FT.
AREA FILL : 10 SQ.FT.

15+00.00

CUT VOLUME : 59 CU.YD.
FILL VOLUME : 7 CU.YD.



AREA CUT : 80 SQ.FT.
AREA FILL : 9 SQ.FT.

14+80.00

CUT VOLUME : 140 CU.YD.
FILL VOLUME : 26 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 14+80 TO STA. 15+00

USER: fs513
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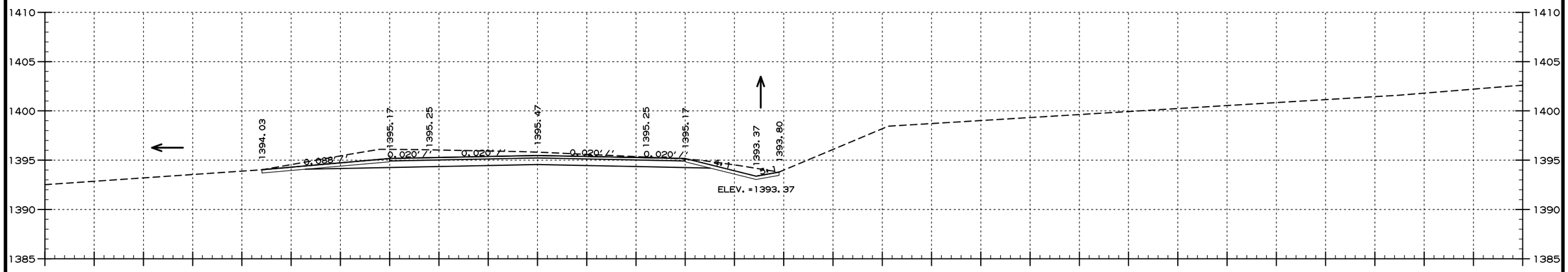
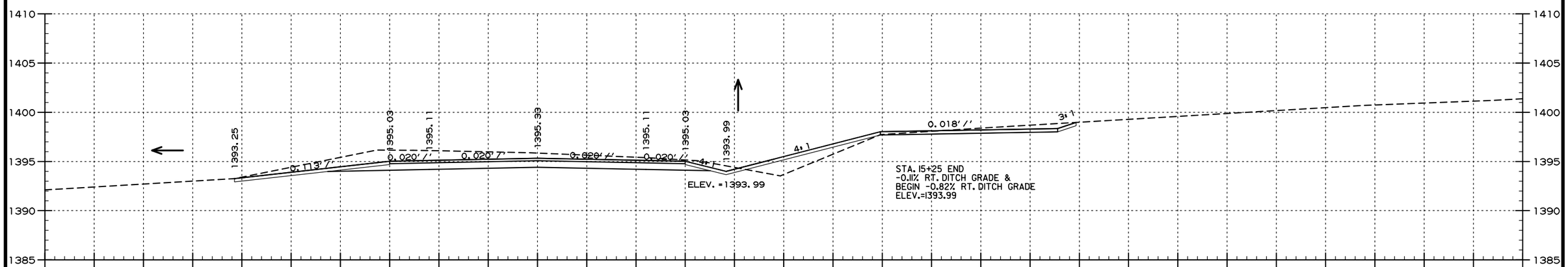


AREA CUT : 62 SQ.FT.
AREA FILL : 0 SQ.FT.

16+00.00

CUT VOLUME : 193 CU.YD.
FILL VOLUME : 14 CU.YD.



AREA CUT : 77 SQ.FT.
AREA FILL : 10 SQ.FT.

15+25.00

CUT VOLUME : 72 CU.YD.
FILL VOLUME : 9 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 15+25 TO STA. 16+00

USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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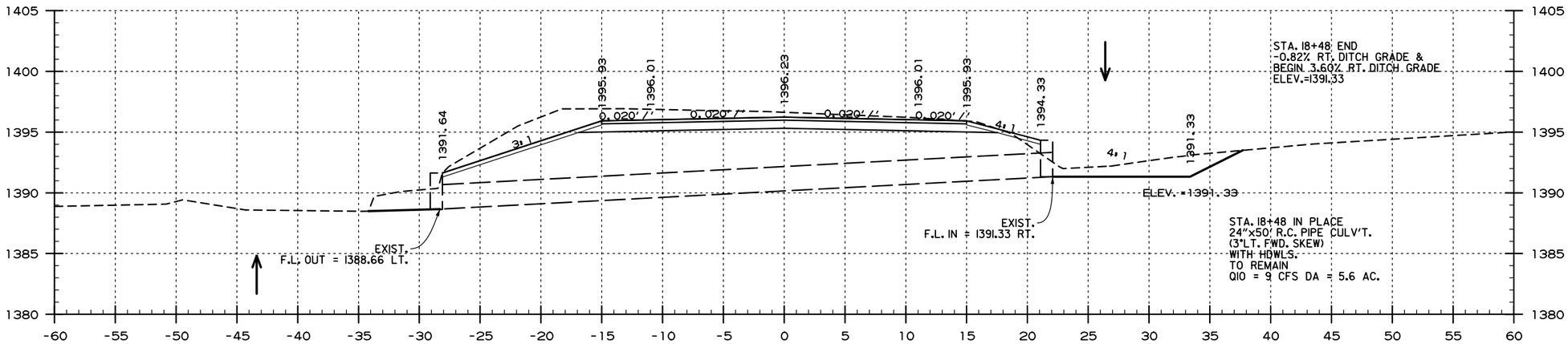
6	ARK.			
JOB NO.		090384	116	151

2 CROSS SECTIONS

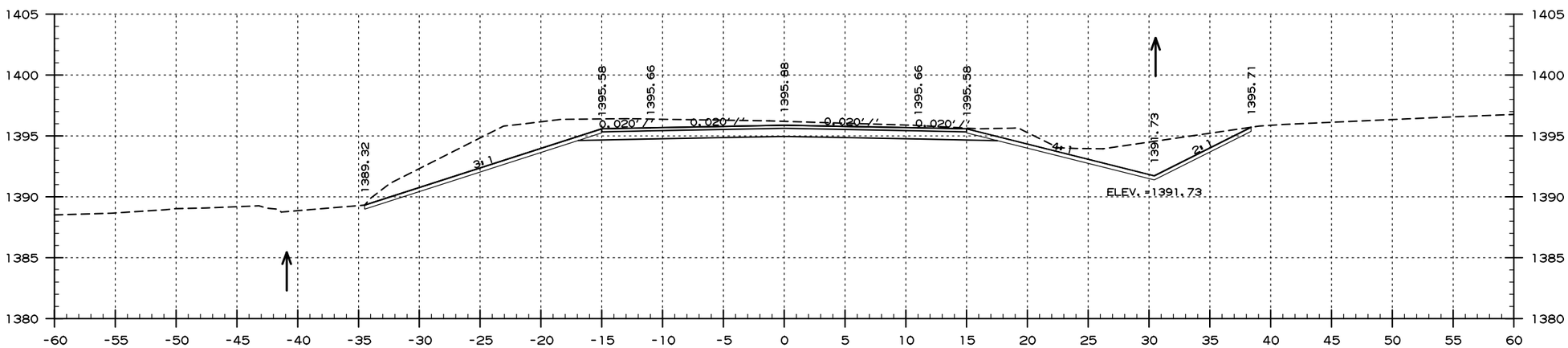
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 67 SQ.FT.
AREA FILL : 1 SQ.FT.

18+48.00

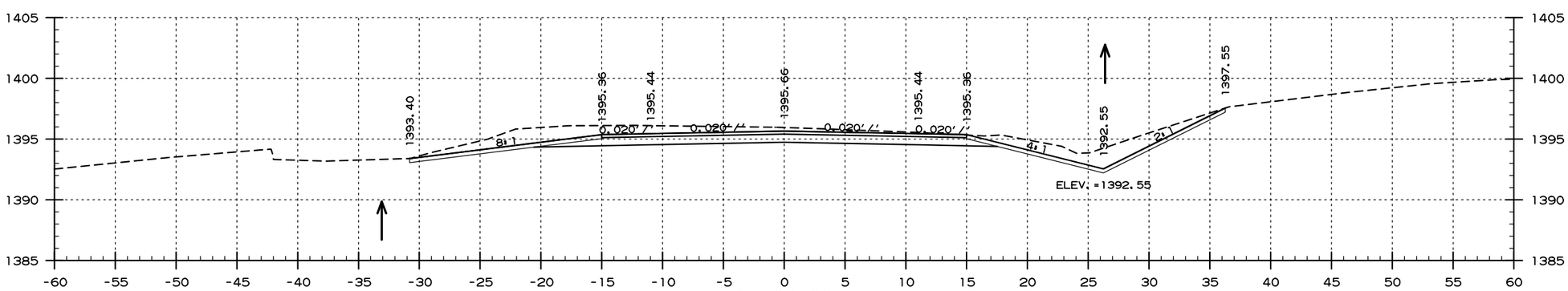
CUT VOLUME : 164 CU.YD.
FILL VOLUME : 1 CU.YD.



AREA CUT : 118 SQ.FT.
AREA FILL : 0 SQ.FT.

18+00.00

CUT VOLUME : 372 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 83 SQ.FT.
AREA FILL : 0 SQ.FT.

17+00.00

CUT VOLUME : 269 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 17+00 TO STA. 18+48

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

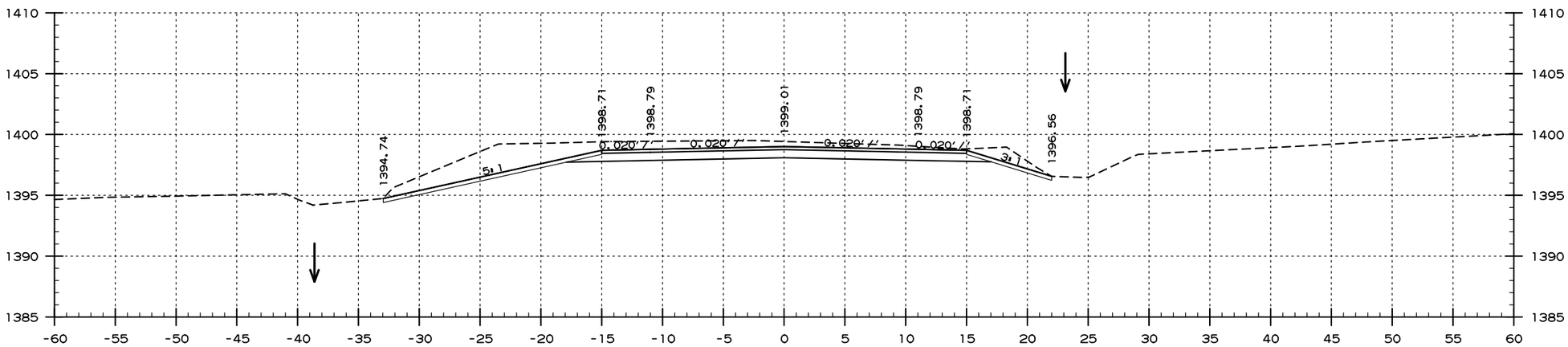
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	117	151

2 CROSS SECTIONS

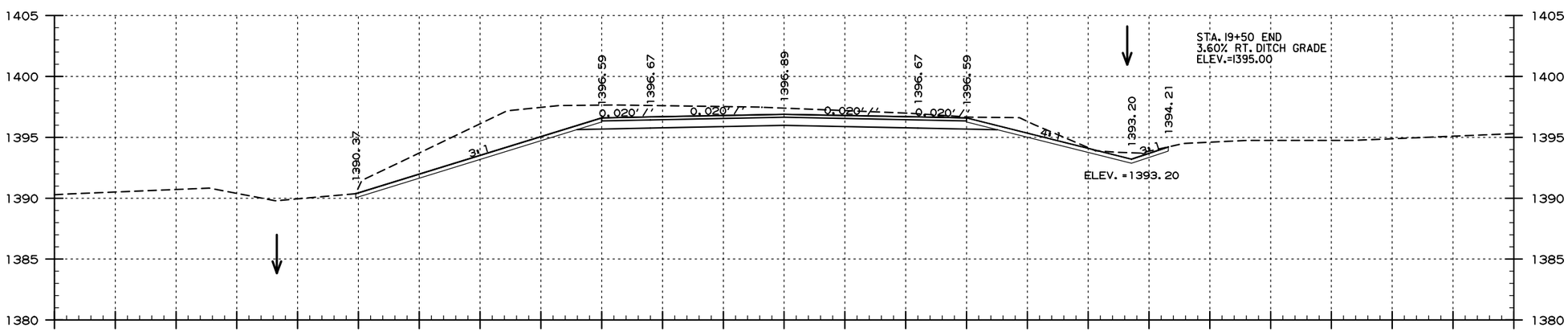
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 82 SQ.FT.
AREA FILL : 0 SQ.FT.

20+00.00

CUT VOLUME : 346 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 105 SQ.FT.
AREA FILL : 0 SQ.FT.

19+00.00

CUT VOLUME : 166 CU.YD.
FILL VOLUME : 1 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 19+00 TO STA. 20+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

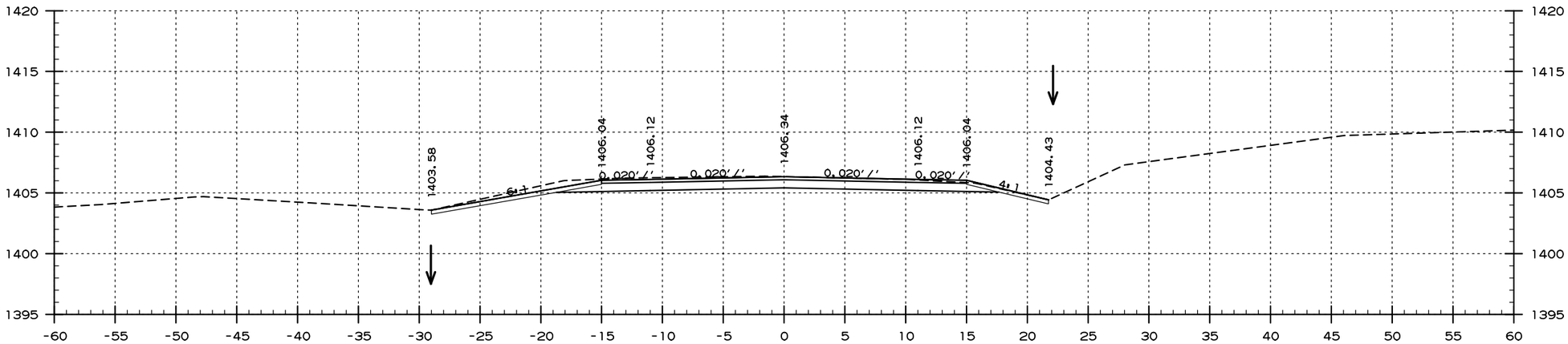
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	118	151

2 CROSS SECTIONS

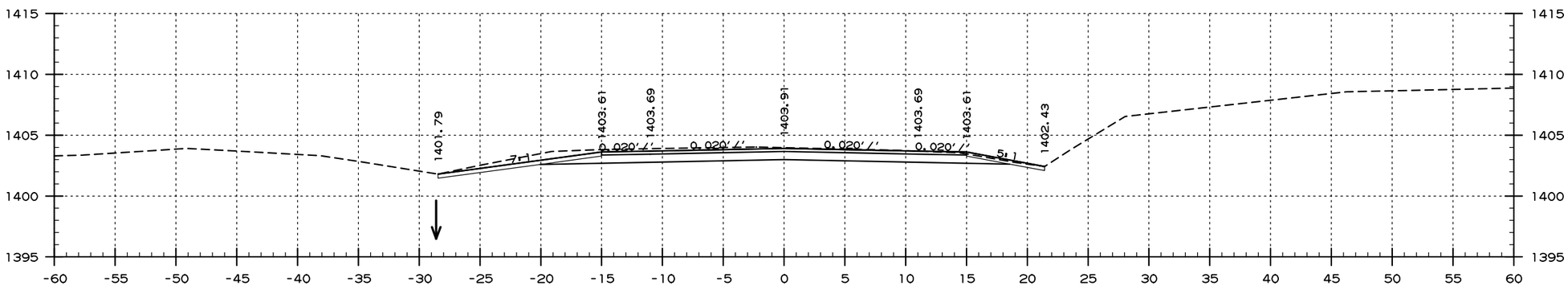
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 41 SQ.FT.
AREA FILL : 0 SQ.FT.

23+00.00

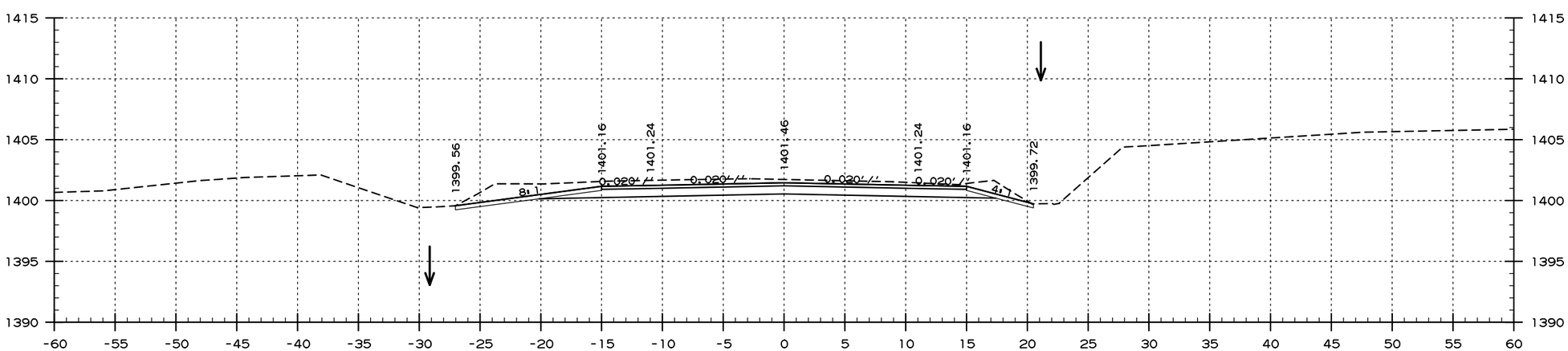
CUT VOLUME : 157 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 44 SQ.FT.
AREA FILL : 0 SQ.FT.

22+00.00

CUT VOLUME : 189 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 58 SQ.FT.
AREA FILL : 0 SQ.FT.

21+00.00

CUT VOLUME : 259 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 21+00 TO STA. 23+00

USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

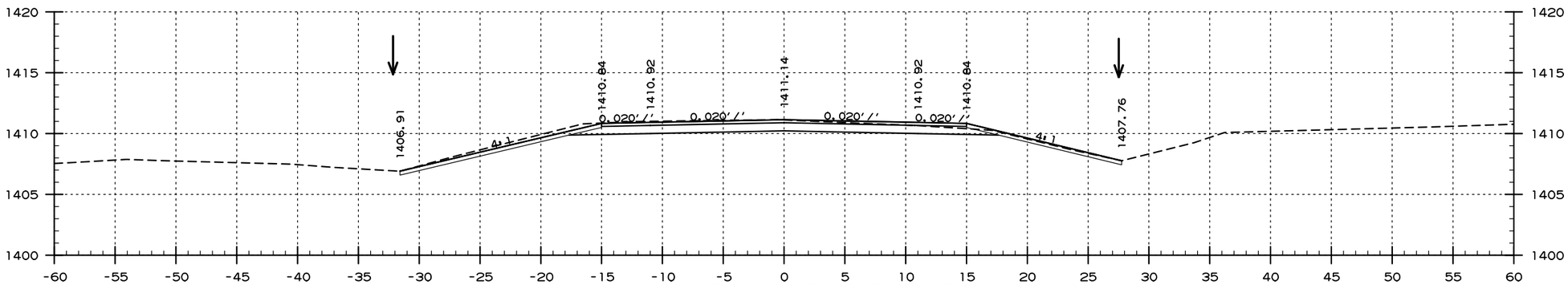
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	119	151

2 CROSS SECTIONS

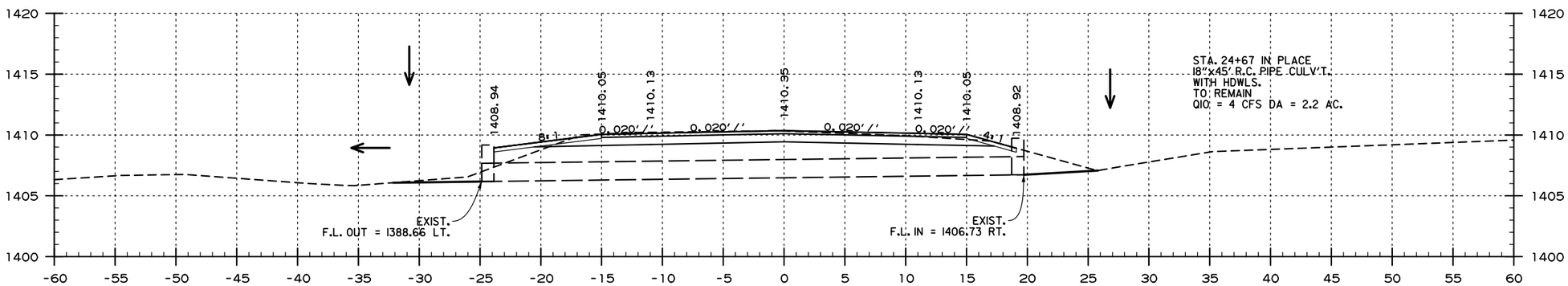
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 39 SQ.FT.
AREA FILL = 0 SQ.FT.

25+00.00 MATCH VISITOR CENTER ROAD

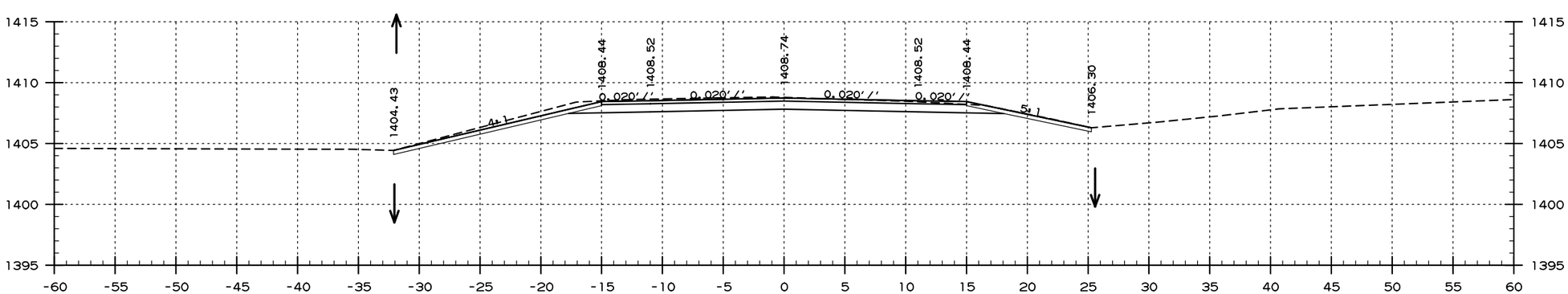
CUT VOLUME = 42 CU.YD.
FILL VOLUME = 2 CU.YD.



AREA CUT = 30 SQ.FT.
AREA FILL = 3 SQ.FT.

24+67.00

CUT VOLUME = 91 CU.YD.
FILL VOLUME = 4 CU.YD.



AREA CUT = 43 SQ.FT.
AREA FILL = 0 SQ.FT.

24+00.00

CUT VOLUME = 156 CU.YD.
FILL VOLUME = 0 CU.YD.

SITE 2
PARK ENTRANCE ROAD
STA. 24+00 TO STA. 25+00

USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

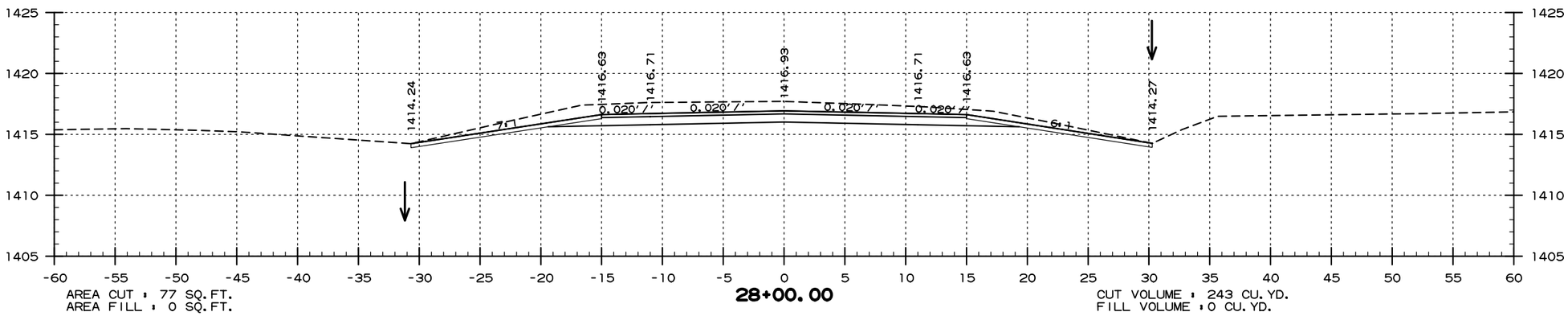
G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

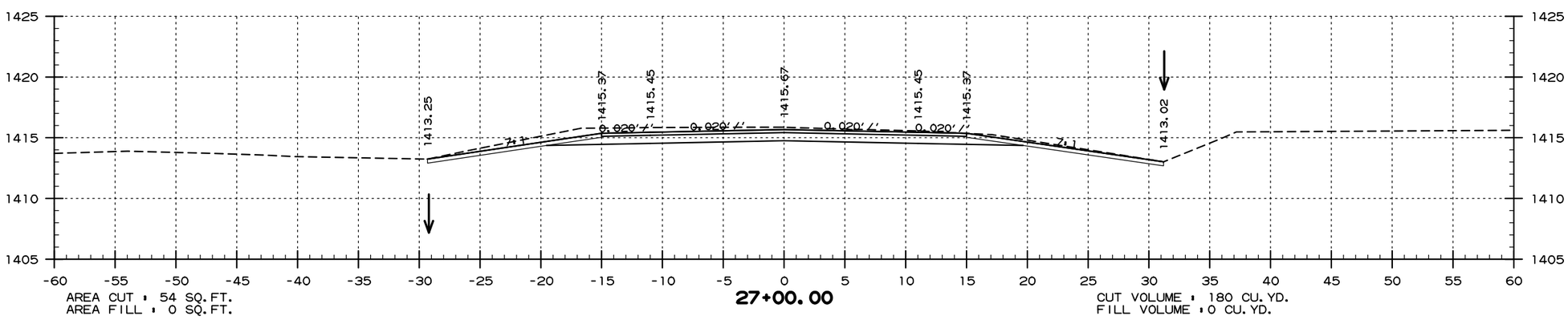
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

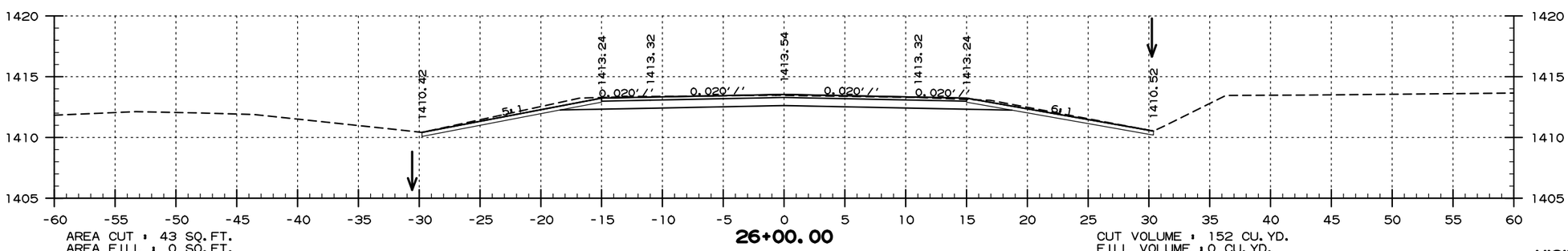
FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	120	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019







STA. 25+00.00 BEGIN VISITOR CENTER ROAD

SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 26+00 TO STA. 28+00

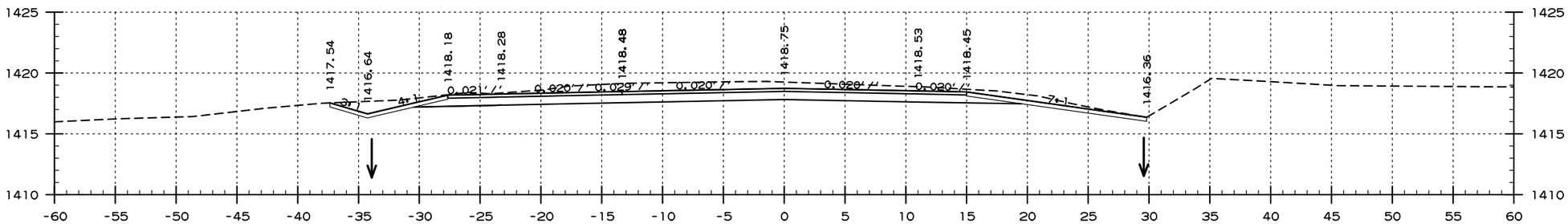
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	121	151

2 CROSS SECTIONS

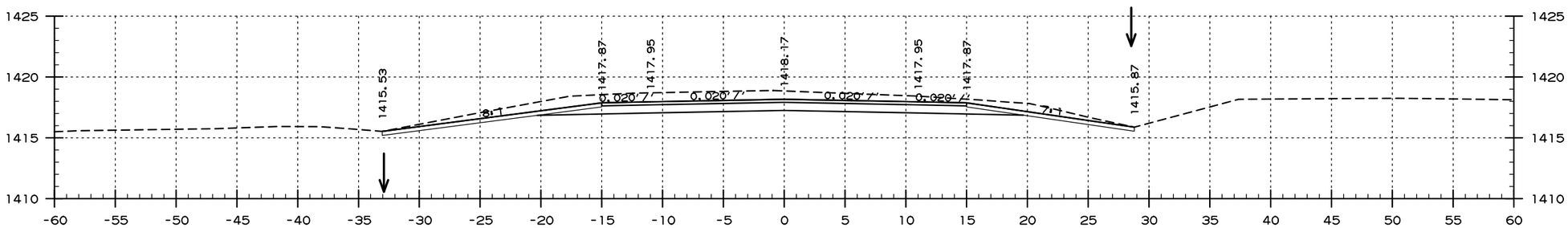
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 77 SQ.FT.
AREA FILL : 0 SQ.FT.

31+00.00

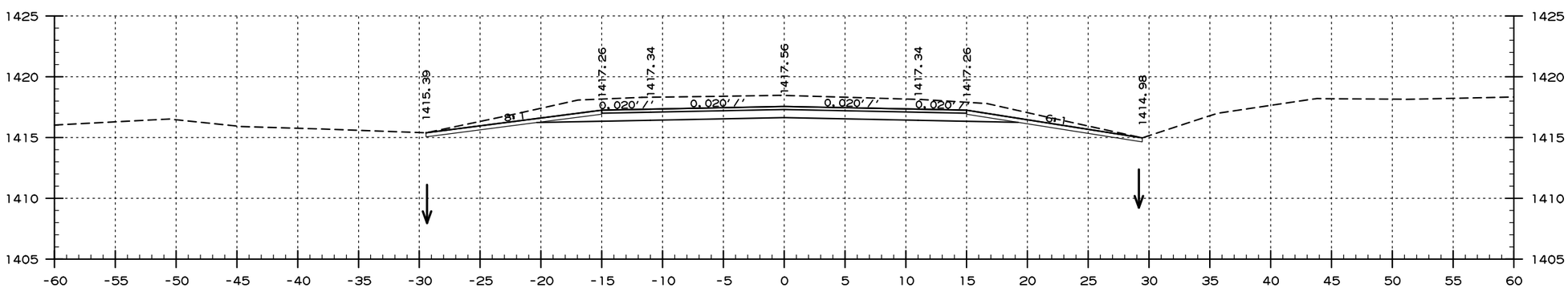
CUT VOLUME : 281 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 75 SQ.FT.
AREA FILL : 0 SQ.FT.

30+00.00

CUT VOLUME : 289 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 81 SQ.FT.
AREA FILL : 0 SQ.FT.

29+00.00

CUT VOLUME : 293 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 29+00 TO STA. 31+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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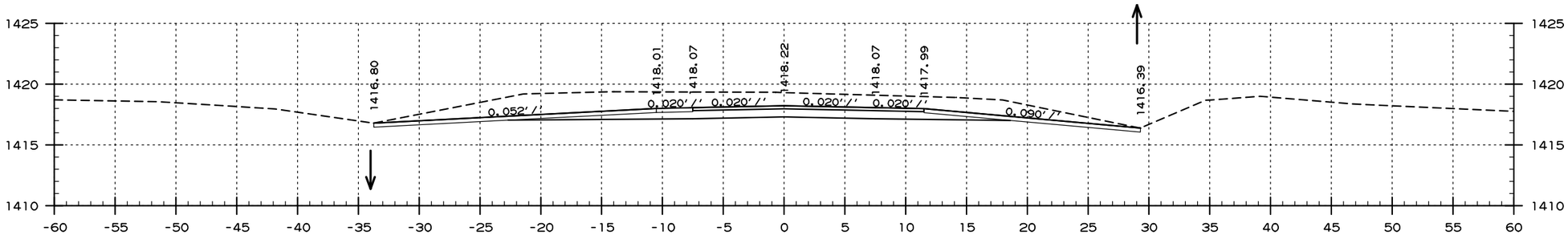
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	122	151

2 CROSS SECTIONS

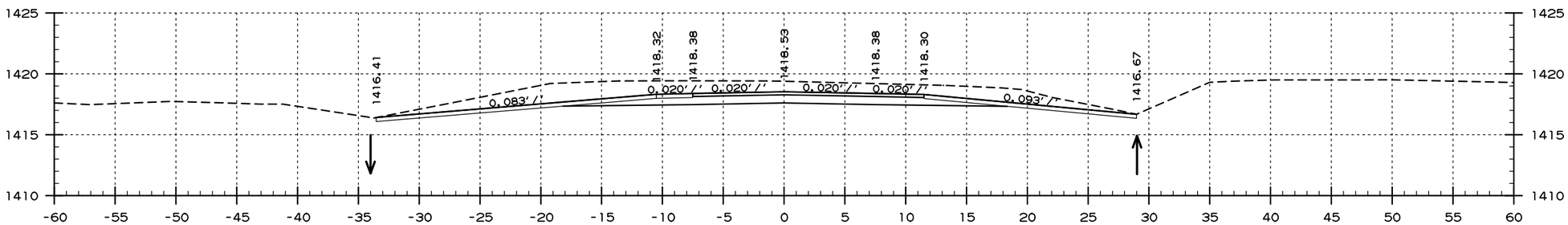
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 107 SQ.FT.
AREA FILL : 0 SQ.FT.

33+00.00

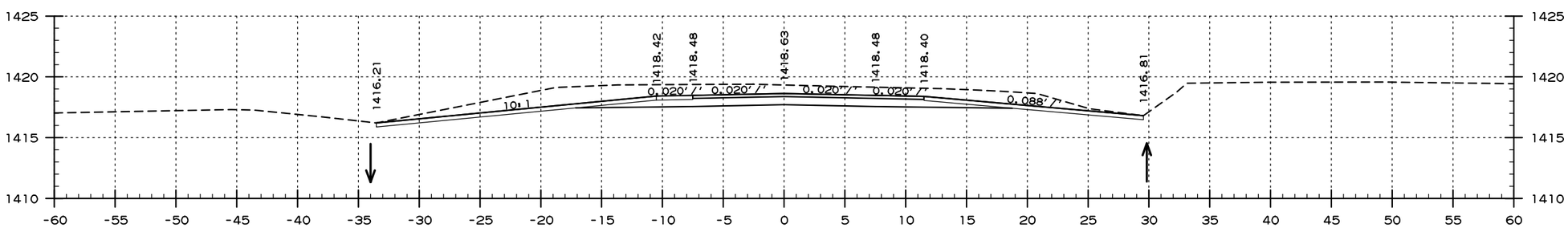
CUT VOLUME : 285 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 94 SQ.FT.
AREA FILL : 0 SQ.FT.

32+23.54

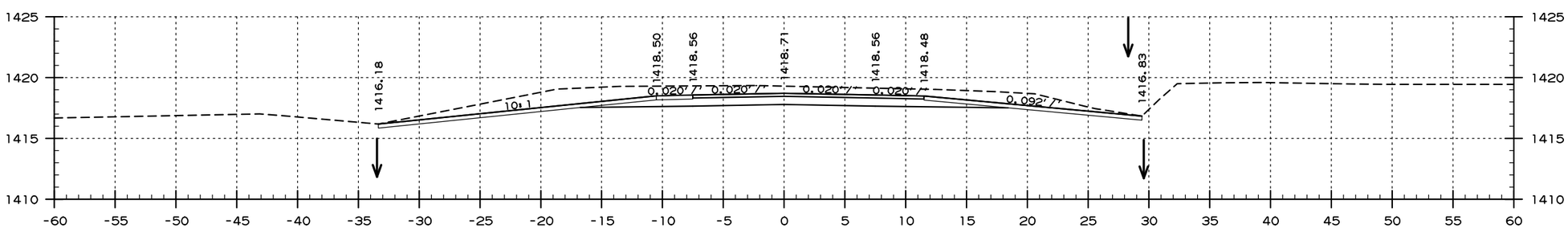
CUT VOLUME : 79 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 87 SQ.FT.
AREA FILL : 0 SQ.FT.

32+00.00

CUT VOLUME : 67 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 82 SQ.FT.
AREA FILL : 0 SQ.FT.

31+78.54

CUT VOLUME : 231 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 31+79 TO STA. 33+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

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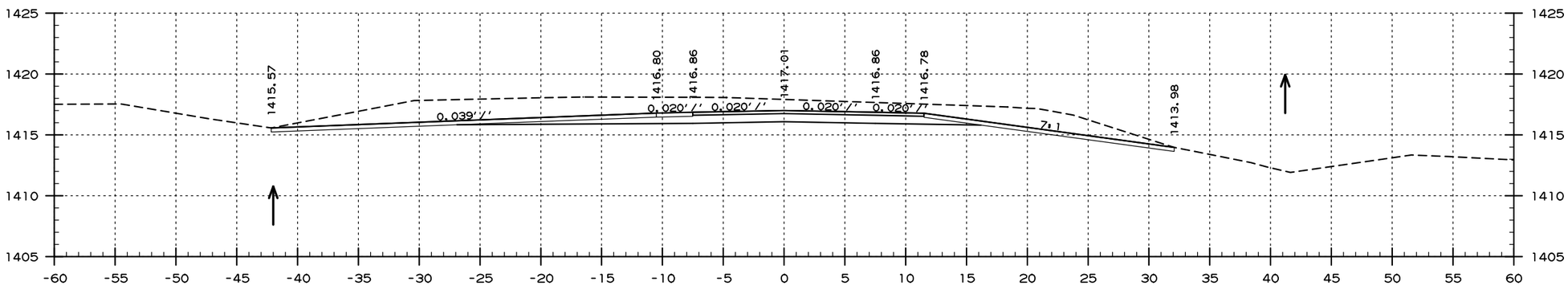
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	123	151

2 CROSS SECTIONS

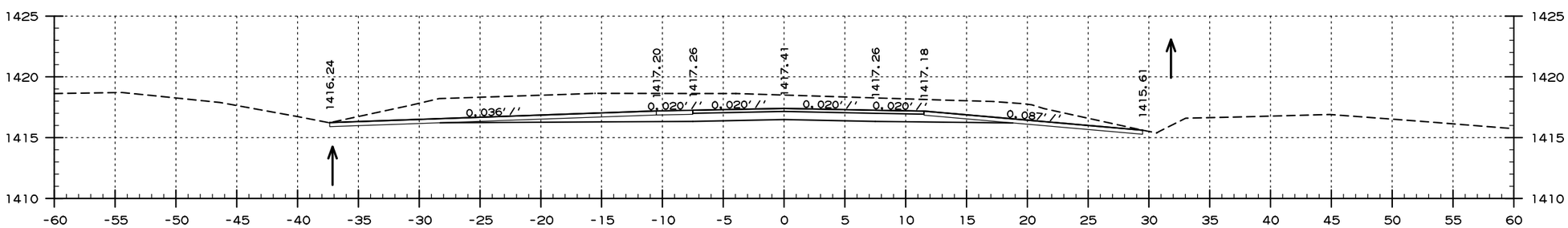
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 130 SQ.FT.
AREA FILL : 0 SQ.FT.

36+00.00

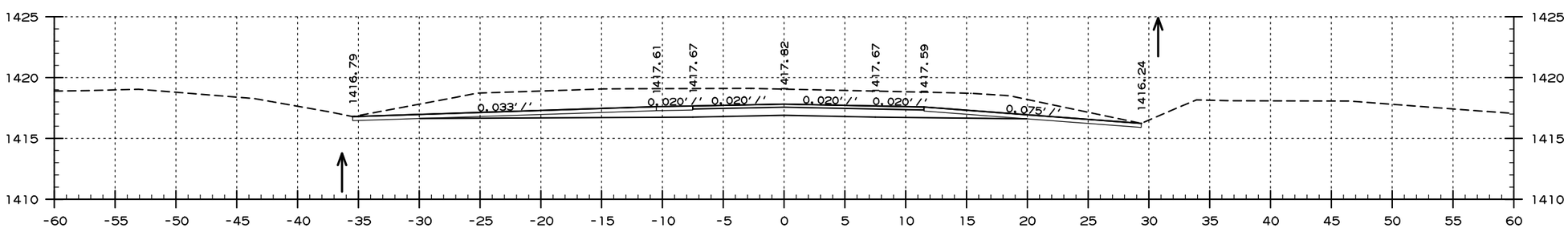
CUT VOLUME : 461 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 119 SQ.FT.
AREA FILL : 0 SQ.FT.

35+00.00

CUT VOLUME : 441 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 119 SQ.FT.
AREA FILL : 0 SQ.FT.

34+00.00

CUT VOLUME : 419 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 34+00 TO STA. 36+00

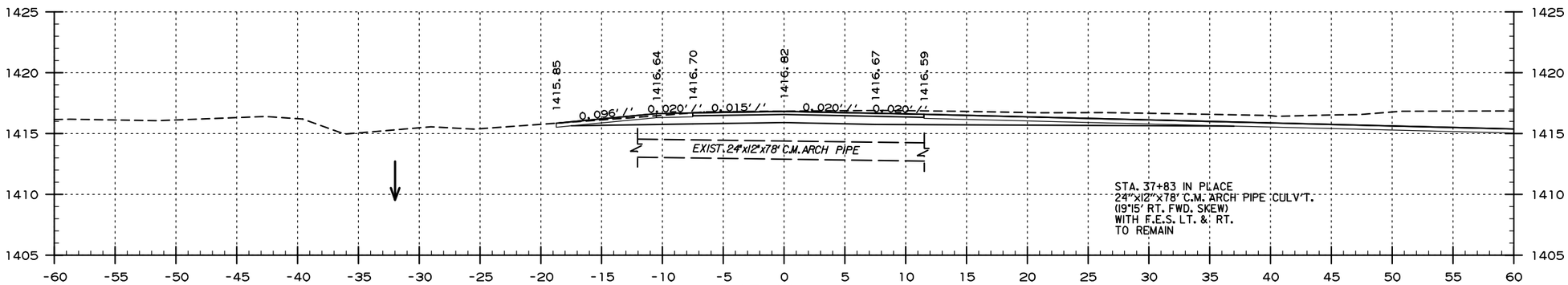
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	124	151

2 CROSS SECTIONS

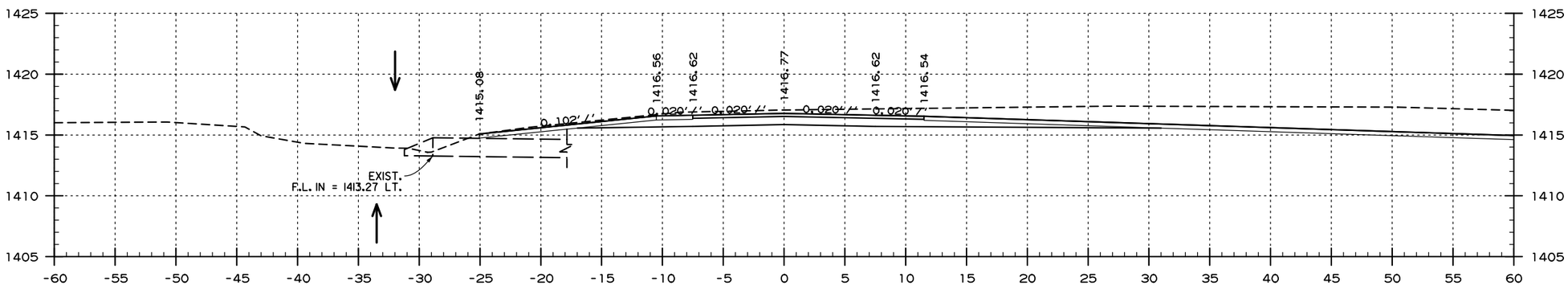
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 83 SQ.FT.
AREA FILL = 0 SQ.FT.

37+83.00

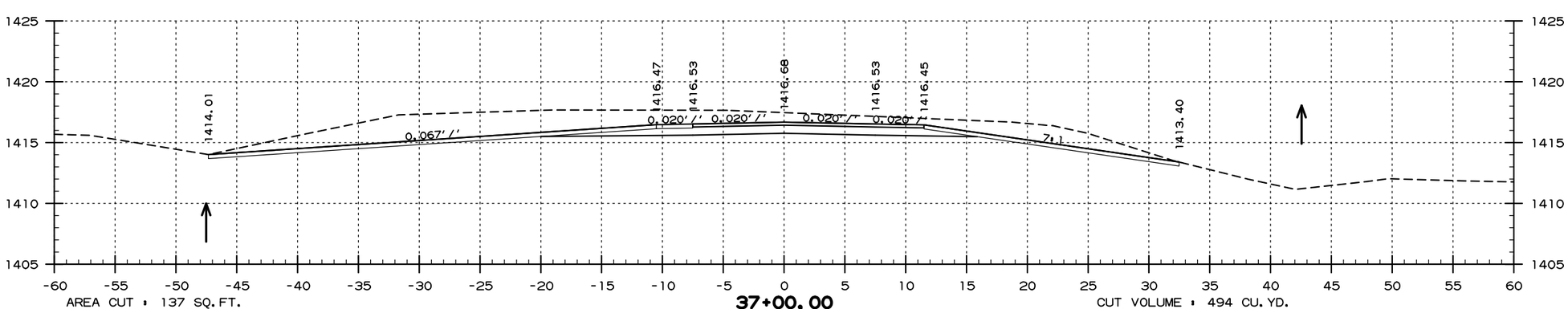
CUT VOLUME = 72 CU.YD.
FILL VOLUME = 0 CU.YD.



AREA CUT = 132 SQ.FT.
AREA FILL = 0 SQ.FT.

37+65.00

CUT VOLUME = 324 CU.YD.
FILL VOLUME = 0 CU.YD.



AREA CUT = 137 SQ.FT.
AREA FILL = 0 SQ.FT.

37+00.00

CUT VOLUME = 494 CU.YD.
FILL VOLUME = 0 CU.YD.

SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 37+00 TO STA. 37+83

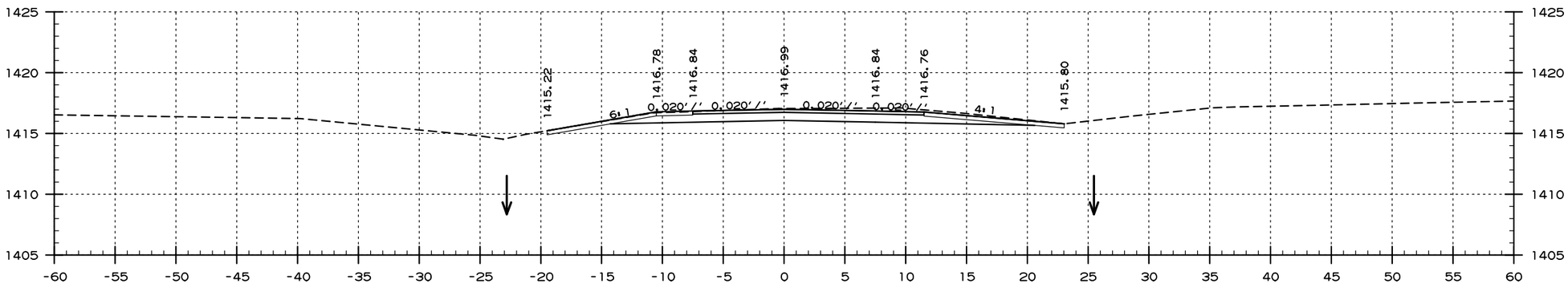
USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	125	151

2 CROSS SECTIONS

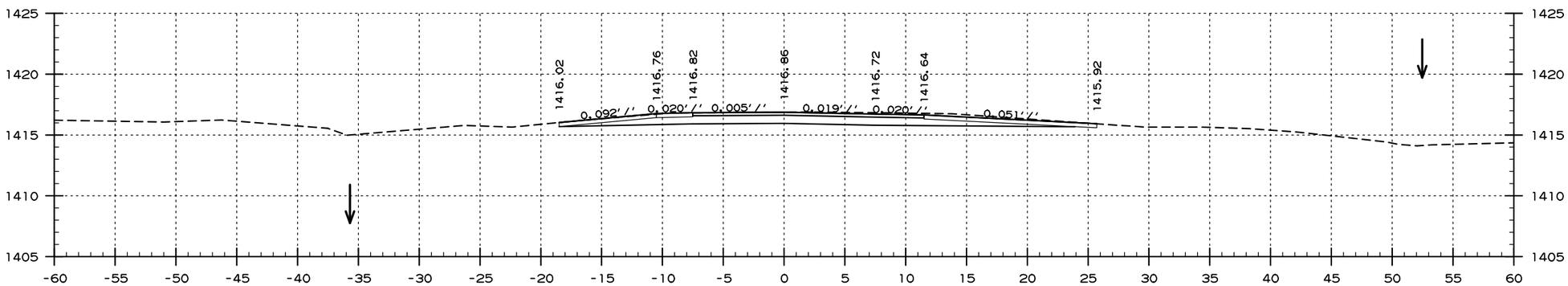
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 34 SQ.FT.
AREA FILL : 0 SQ.FT.

38+50.00

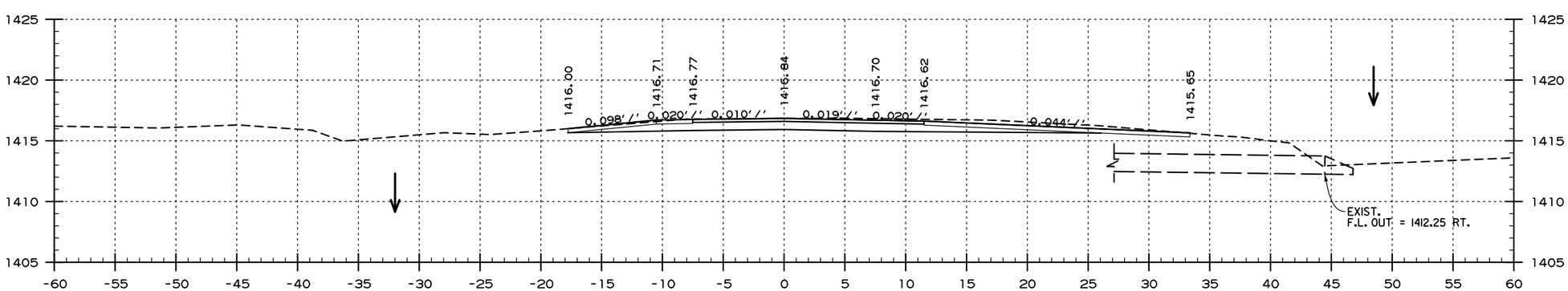
CUT VOLUME : 65 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 36 SQ.FT.
AREA FILL : 0 SQ.FT.

38+00.00

CUT VOLUME : 11 CU.YD.
FILL VOLUME : 0 CU.YD.



AREA CUT : 41 SQ.FT.
AREA FILL : 0 SQ.FT.

37+92.00

CUT VOLUME : 21 CU.YD.
FILL VOLUME : 0 CU.YD.

SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 37+92 TO STA. 38+50

USER: f6513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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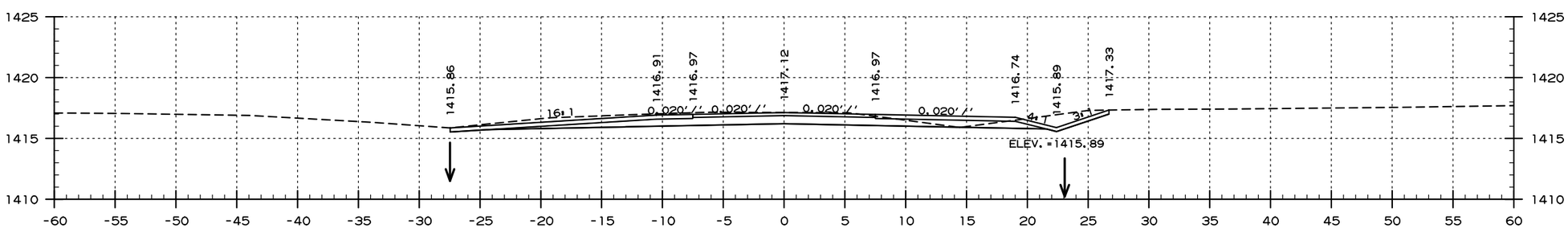
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	126	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019



AREA CUT : 42 SQ.FT.
AREA FILL : 0 SQ.FT.

38+97.97 MATCH PARKING

CUT VOLUME : 68 CU.YD.
FILL VOLUME : 0 CU.YD.

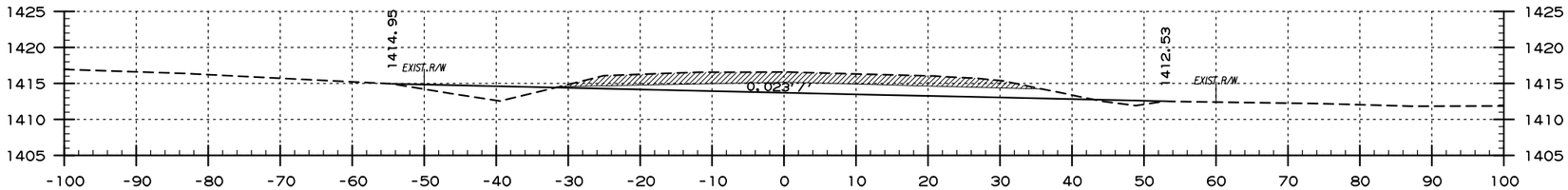
SITE 3
VISITOR CENTER ENTRANCE ROAD
STA. 38+98 TO STA. 38+98

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:10

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	127	151

2 CROSS SECTIONS

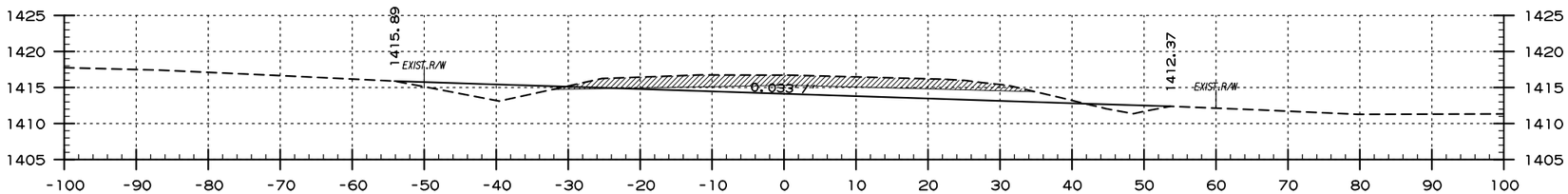
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 166 SQ.FT.
AREA FILL : 27 SQ.FT.

103+00.00

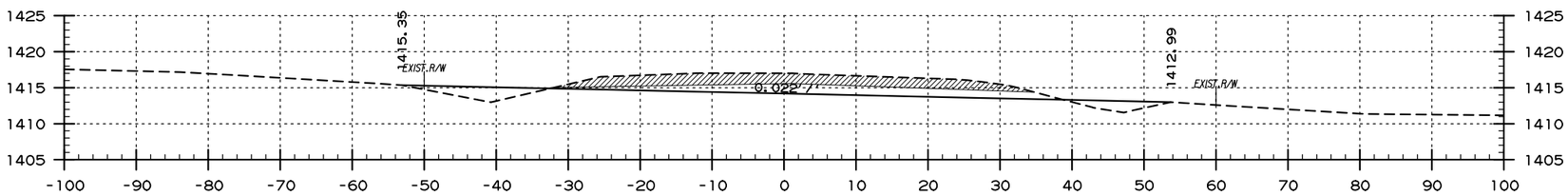
CUT VOLUME : 294 CU.YD.
FILL VOLUME : 57 CU.YD.



AREA CUT : 151 SQ.FT.
AREA FILL : 35 SQ.FT.

102+50.00

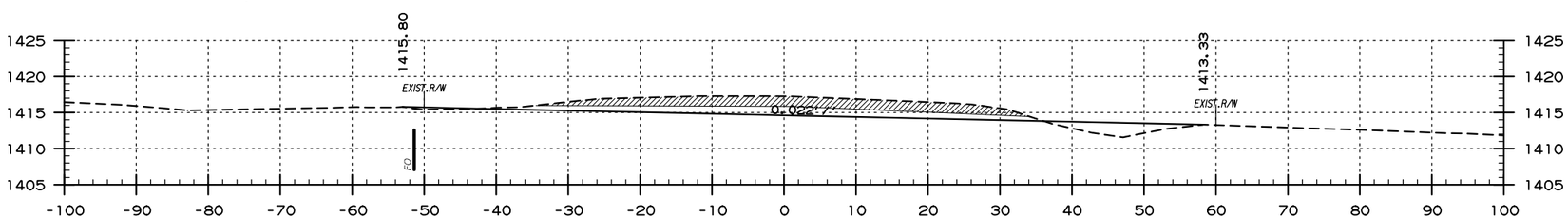
CUT VOLUME : 283 CU.YD.
FILL VOLUME : 64 CU.YD.



AREA CUT : 155 SQ.FT.
AREA FILL : 35 SQ.FT.

102+00.00

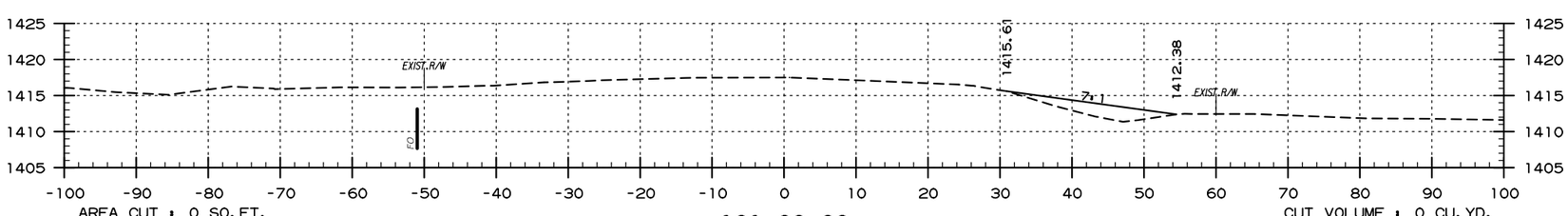
CUT VOLUME : 279 CU.YD.
FILL VOLUME : 55 CU.YD.



AREA CUT : 146 SQ.FT.
AREA FILL : 25 SQ.FT.

101+50.00

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 48 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 27 SQ.FT.

101+00.00

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 0 CU.YD.

EXISTING PAVEMENT REMOVAL/16" UNDERCUT

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 101+00 TO STA. 103+00

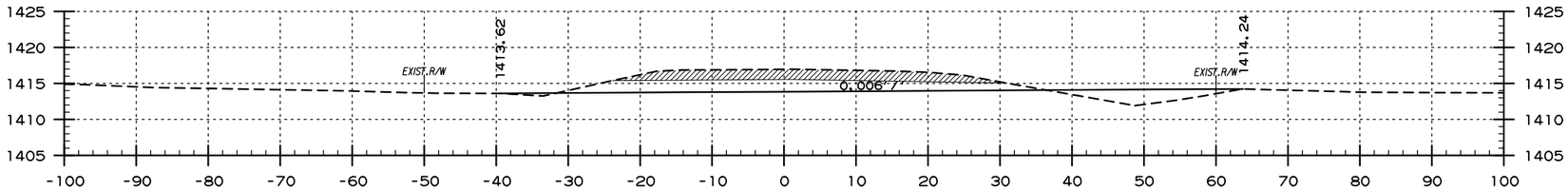
USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	128	151

2 CROSS SECTIONS

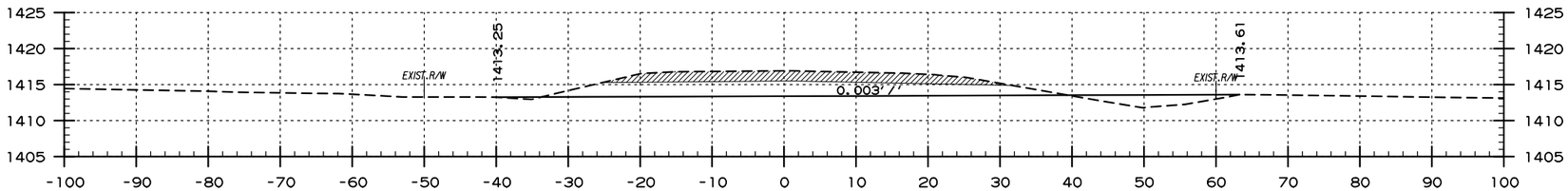
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 157 SQ.FT.
AREA FILL : 33 SQ.FT.

105+50.00

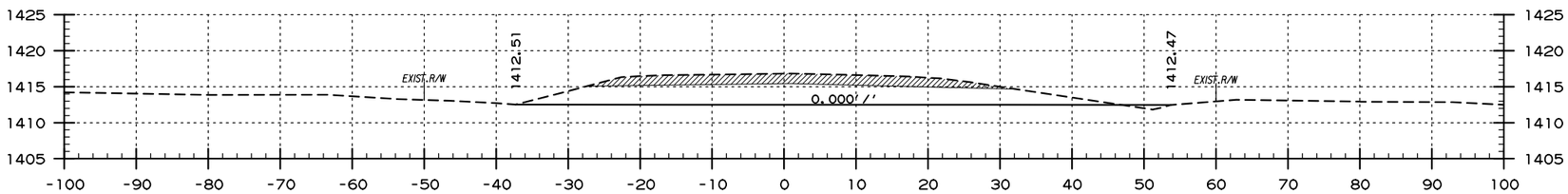
CUT VOLUME : 320 CU.YD.
FILL VOLUME : 54 CU.YD.



AREA CUT : 189 SQ.FT.
AREA FILL : 25 SQ.FT.

105+00.00

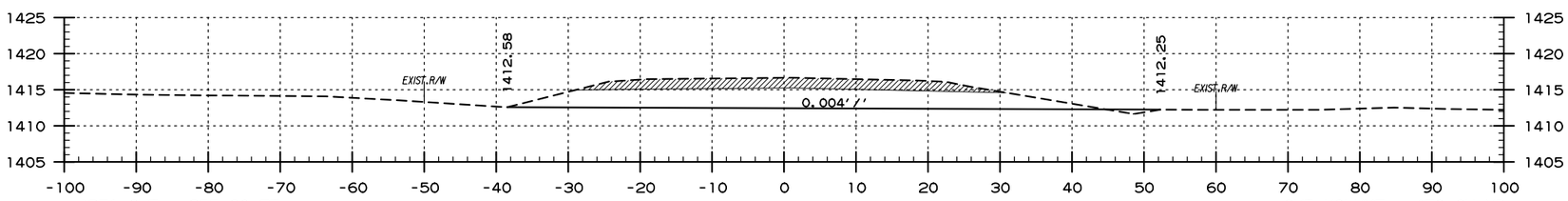
CUT VOLUME : 413 CU.YD.
FILL VOLUME : 25 CU.YD.



AREA CUT : 257 SQ.FT.
AREA FILL : 2 SQ.FT.

104+50.00

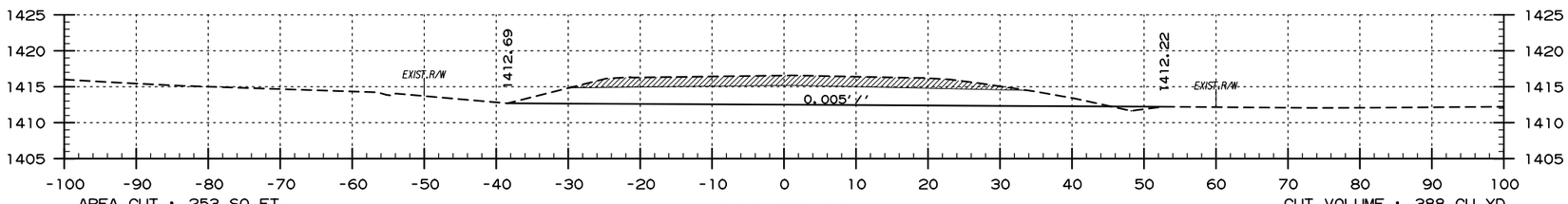
CUT VOLUME : 474 CU.YD.
FILL VOLUME : 4 CU.YD.



AREA CUT : 255 SQ.FT.
AREA FILL : 2 SQ.FT.

104+00.00

CUT VOLUME : 470 CU.YD.
FILL VOLUME : 4 CU.YD.



AREA CUT : 253 SQ.FT.
AREA FILL : 2 SQ.FT.

103+50.00

CUT VOLUME : 388 CU.YD.
FILL VOLUME : 27 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 103+50 TO STA. 105+50

USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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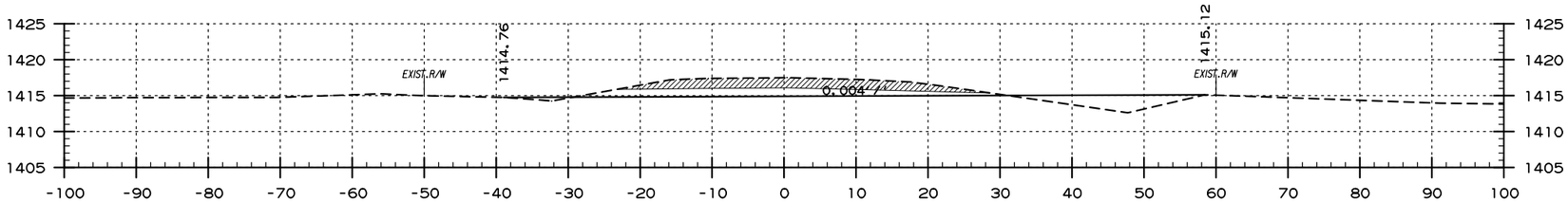
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	129	151

2 CROSS SECTIONS

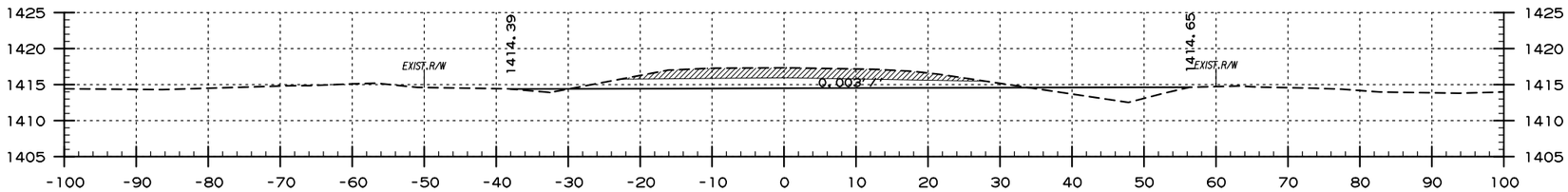
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 110 SQ.FT.
AREA FILL : 36 SQ.FT.

108+00.00

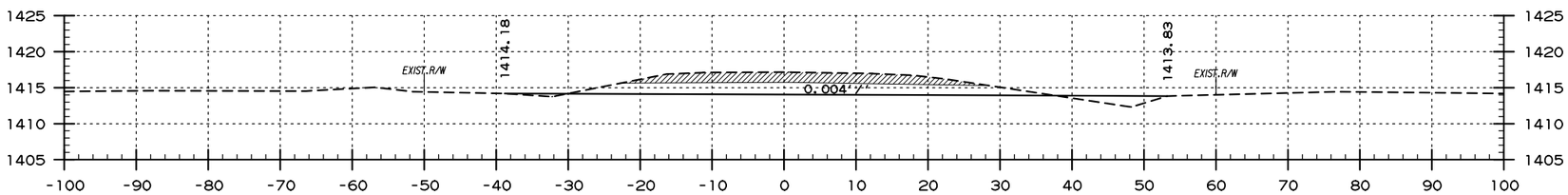
CUT VOLUME : 221 CU.YD.
FILL VOLUME : 57 CU.YD.



AREA CUT : 129 SQ.FT.
AREA FILL : 25 SQ.FT.

107+50.00

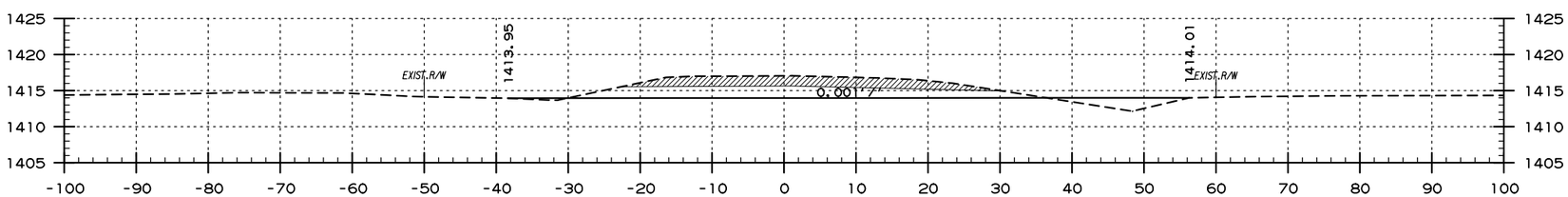
CUT VOLUME : 258 CU.YD.
FILL VOLUME : 36 CU.YD.



AREA CUT : 150 SQ.FT.
AREA FILL : 14 SQ.FT.

107+00.00

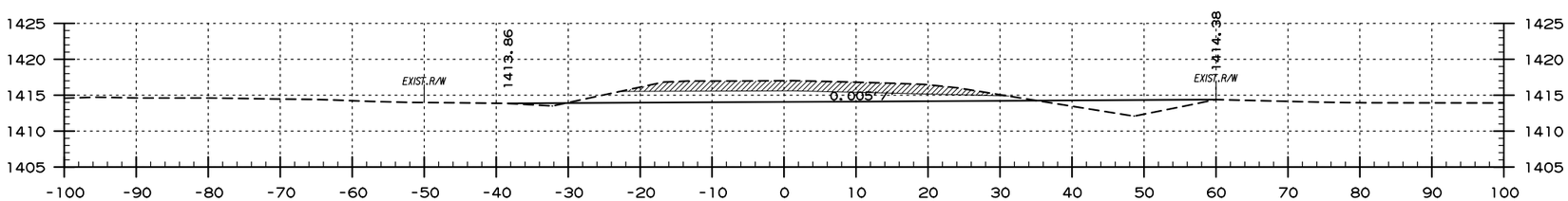
CUT VOLUME : 275 CU.YD.
FILL VOLUME : 31 CU.YD.



AREA CUT : 147 SQ.FT.
AREA FILL : 20 SQ.FT.

106+50.00

CUT VOLUME : 267 CU.YD.
FILL VOLUME : 46 CU.YD.



AREA CUT : 141 SQ.FT.
AREA FILL : 30 SQ.FT.

106+00.00

CUT VOLUME : 276 CU.YD.
FILL VOLUME : 58 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 106+00 TO STA. 108+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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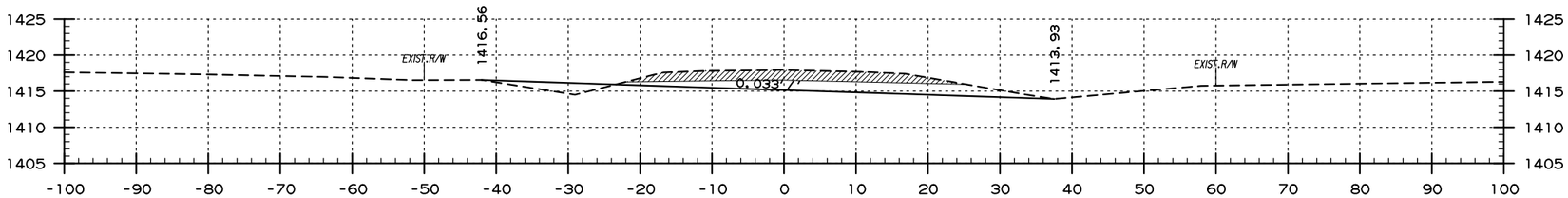
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	130	151

2 CROSS SECTIONS

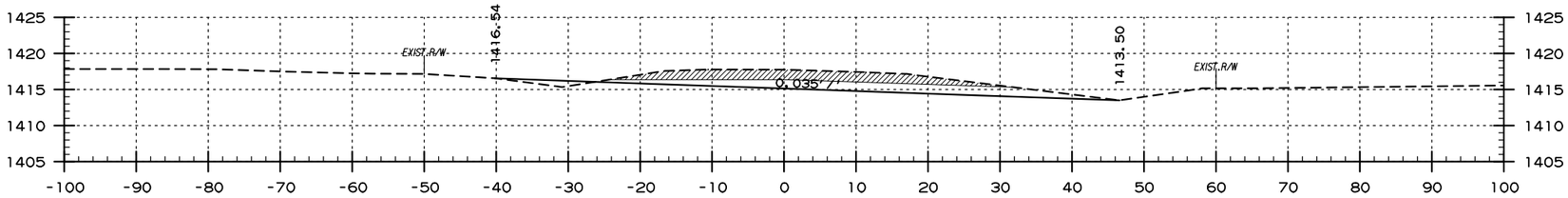
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 122 SQ.FT.
AREA FILL : 15 SQ.FT.

110+50.00

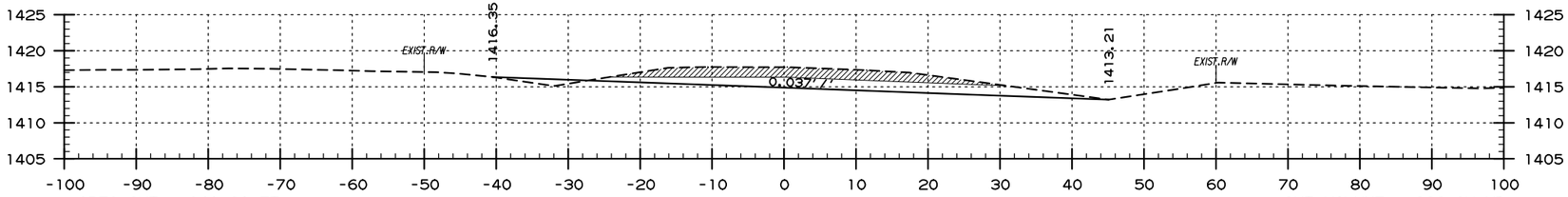
CUT VOLUME : 234 CU.YD.
FILL VOLUME : 20 CU.YD.



AREA CUT : 131 SQ.FT.
AREA FILL : 6 SQ.FT.

110+00.00

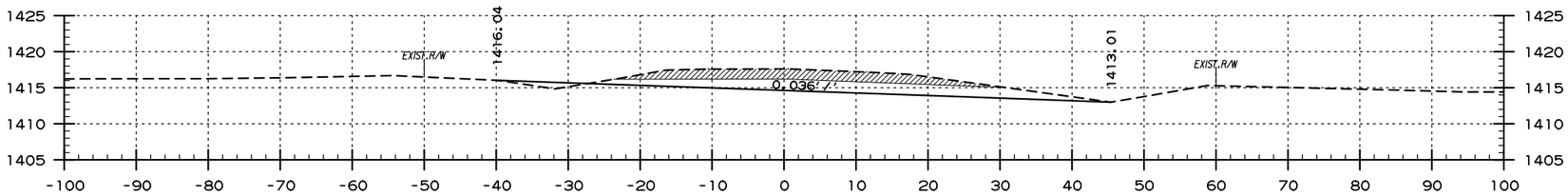
CUT VOLUME : 251 CU.YD.
FILL VOLUME : 11 CU.YD.



AREA CUT : 140 SQ.FT.
AREA FILL : 6 SQ.FT.

109+50.00

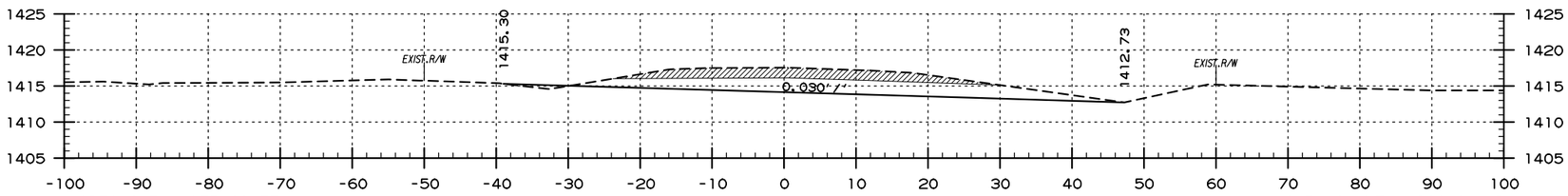
CUT VOLUME : 266 CU.YD.
FILL VOLUME : 11 CU.YD.



AREA CUT : 147 SQ.FT.
AREA FILL : 6 SQ.FT.

109+00.00

CUT VOLUME : 298 CU.YD.
FILL VOLUME : 8 CU.YD.



AREA CUT : 175 SQ.FT.
AREA FILL : 2 SQ.FT.

108+50.00

CUT VOLUME : 264 CU.YD.
FILL VOLUME : 36 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 108+50 TO STA. 110+50

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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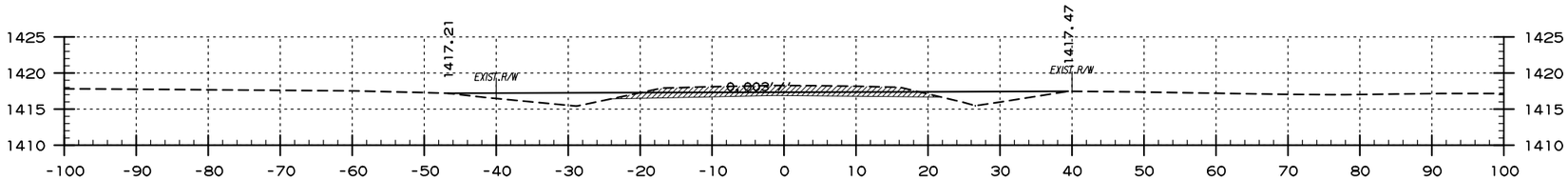
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	131	151

2 CROSS SECTIONS

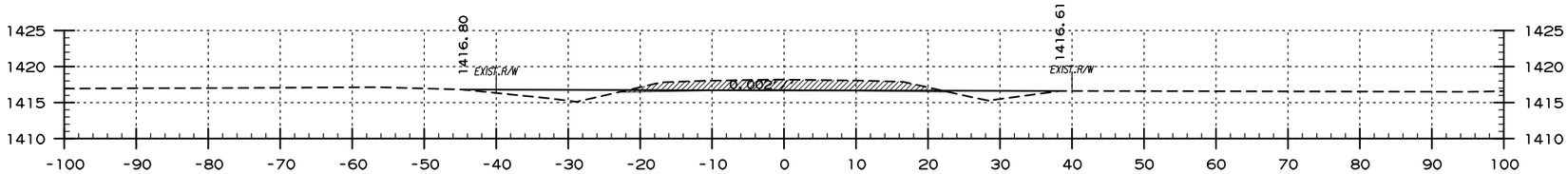
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 54 SQ.FT.
AREA FILL : 71 SQ.FT.

112+50.00

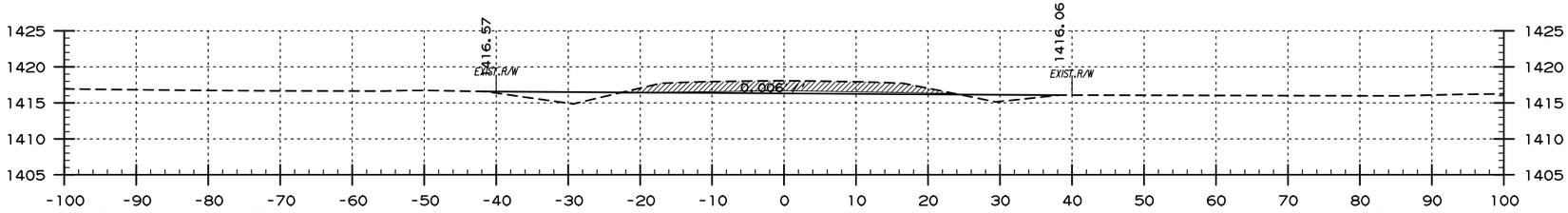
CUT VOLUME : 101 CU.YD.
FILL VOLUME : 97 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 34 SQ.FT.

112+00.00

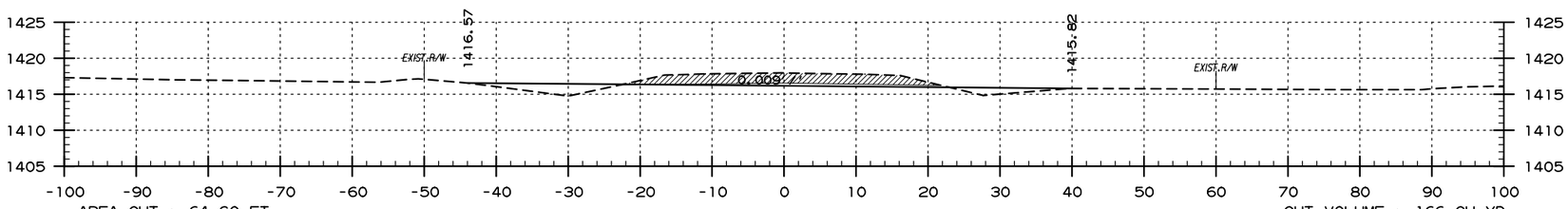
CUT VOLUME : 111 CU.YD.
FILL VOLUME : 52 CU.YD.



AREA CUT : 64 SQ.FT.
AREA FILL : 28 SQ.FT.

111+50.00

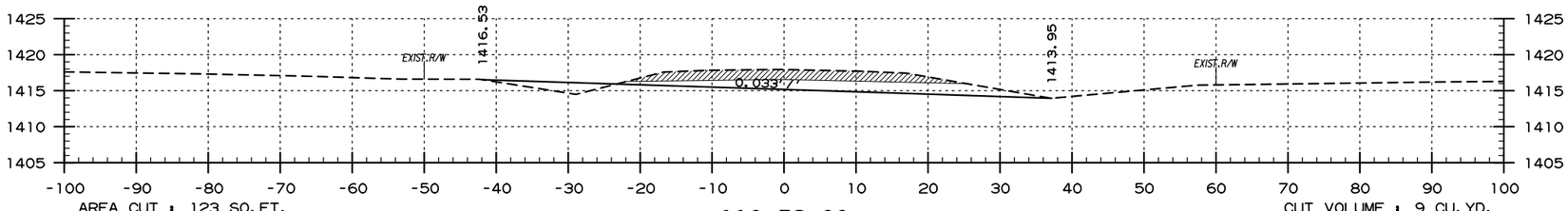
CUT VOLUME : 119 CU.YD.
FILL VOLUME : 46 CU.YD.



AREA CUT : 64 SQ.FT.
AREA FILL : 28 SQ.FT.

111+00.00

CUT VOLUME : 166 CU.YD.
FILL VOLUME : 38 CU.YD.



AREA CUT : 123 SQ.FT.
AREA FILL : 15 SQ.FT.

110+52.00

CUT VOLUME : 9 CU.YD.
FILL VOLUME : 1 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 110+52 TO STA. 112+50

USER: f6513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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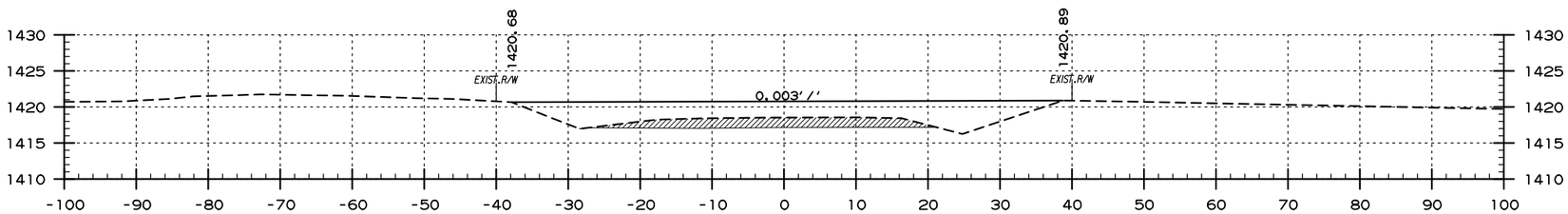
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	132	151

2 CROSS SECTIONS

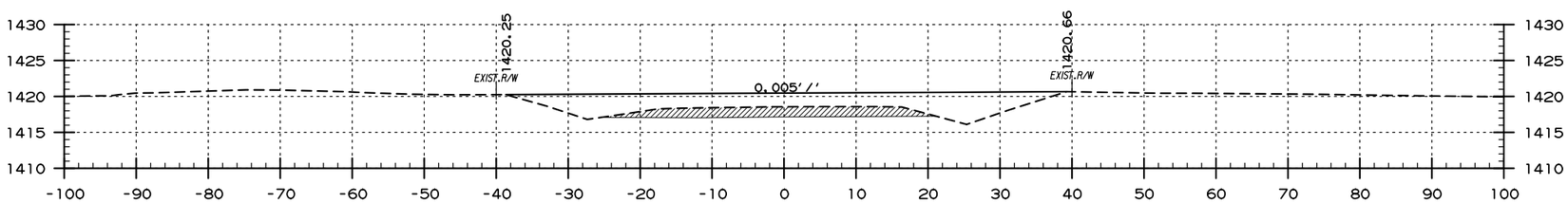
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 55 SQ.FT.
AREA FILL : 246 SQ.FT.

115+00.00

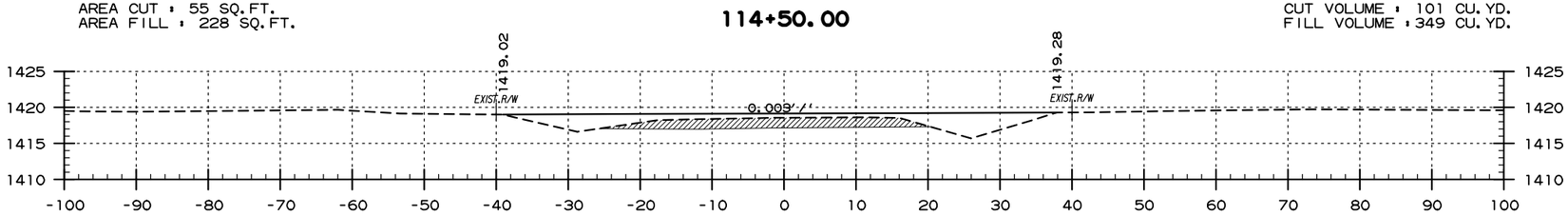
CUT VOLUME : 102 CU.YD.
FILL VOLUME : 439 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 228 SQ.FT.

114+50.00

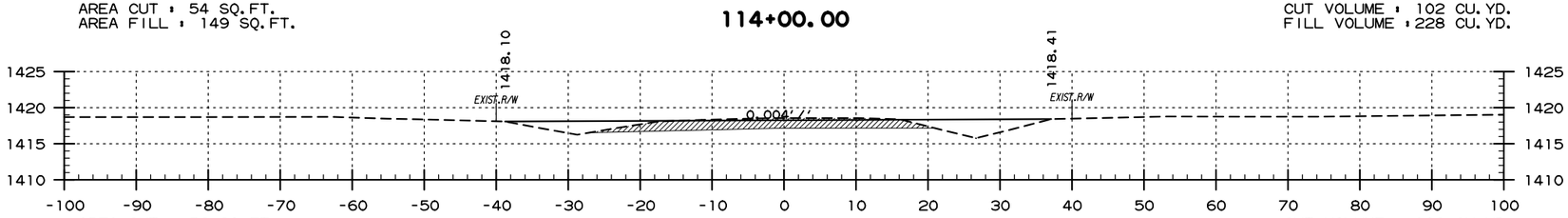
CUT VOLUME : 101 CU.YD.
FILL VOLUME : 349 CU.YD.



AREA CUT : 54 SQ.FT.
AREA FILL : 149 SQ.FT.

114+00.00

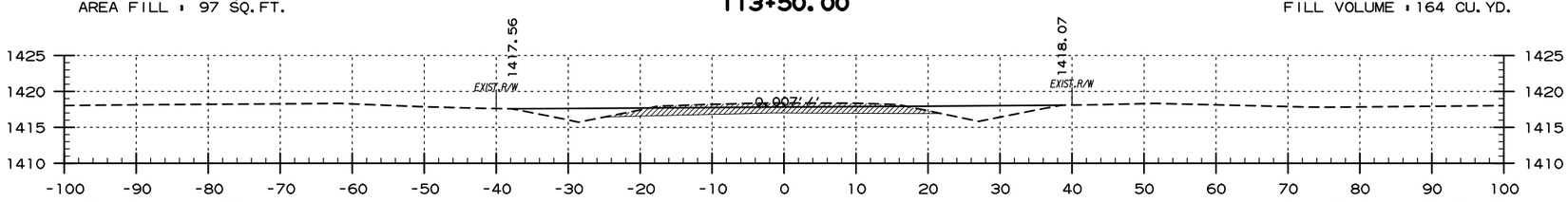
CUT VOLUME : 102 CU.YD.
FILL VOLUME : 228 CU.YD.



AREA CUT : 56 SQ.FT.
AREA FILL : 97 SQ.FT.

113+50.00

CUT VOLUME : 103 CU.YD.
FILL VOLUME : 164 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 80 SQ.FT.

113+00.00

CUT VOLUME : 101 CU.YD.
FILL VOLUME : 140 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 113+00 TO STA. 115+00

USER: fs513
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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
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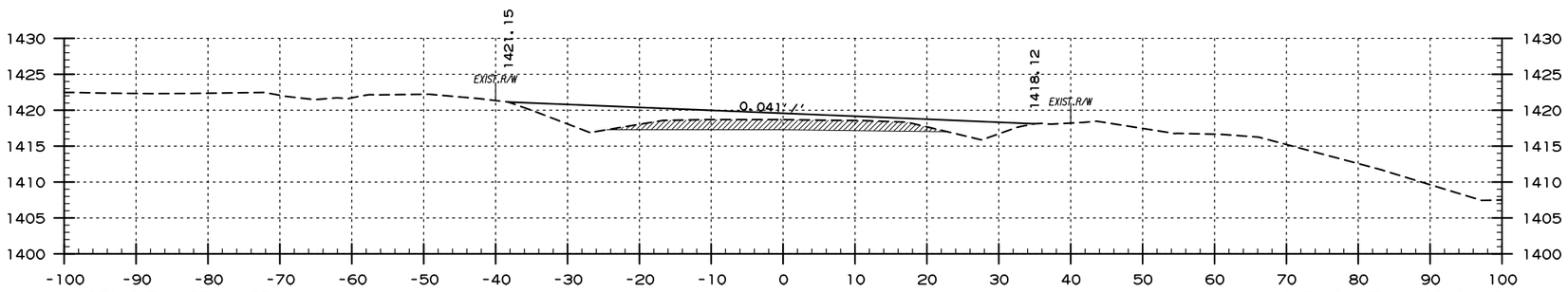
2 CROSS SECTIONS

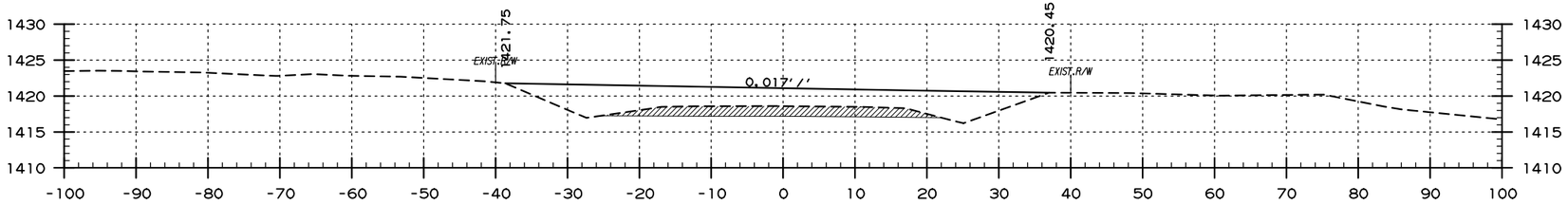
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 55 SQ.FT.
AREA FILL : 161 SQ.FT.

117+00.00

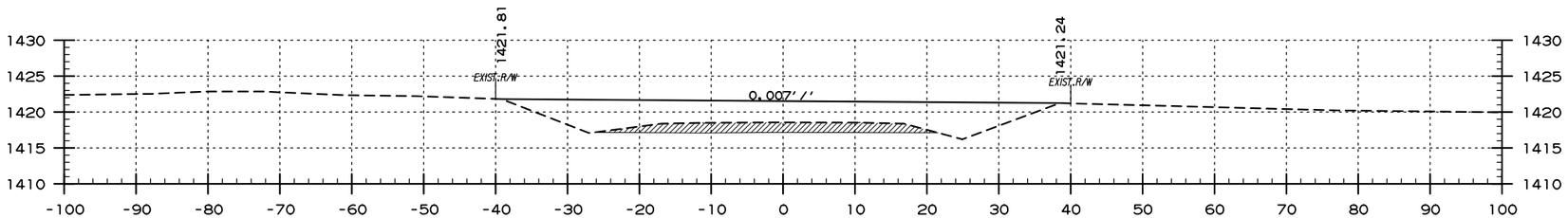
CUT VOLUME : 102 CU.YD.
FILL VOLUME : 392 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 262 SQ.FT.

116+50.00

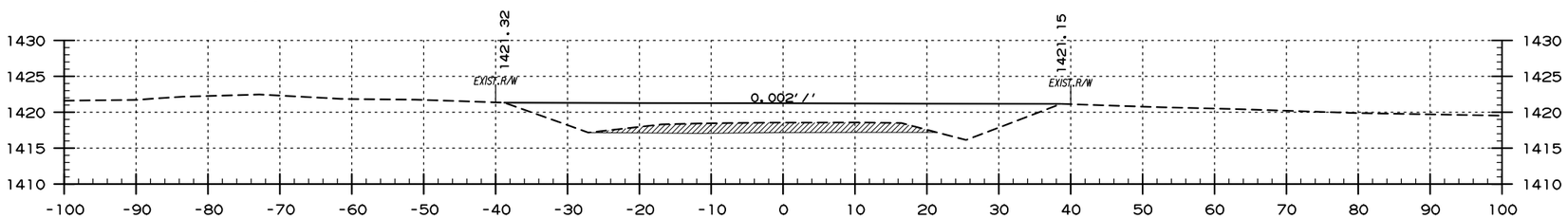
CUT VOLUME : 102 CU.YD.
FILL VOLUME : 514 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 293 SQ.FT.

116+00.00

CUT VOLUME : 102 CU.YD.
FILL VOLUME : 526 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 275 SQ.FT.

115+50.00

CUT VOLUME : 102 CU.YD.
FILL VOLUME : 482 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 115+50 TO STA. 117+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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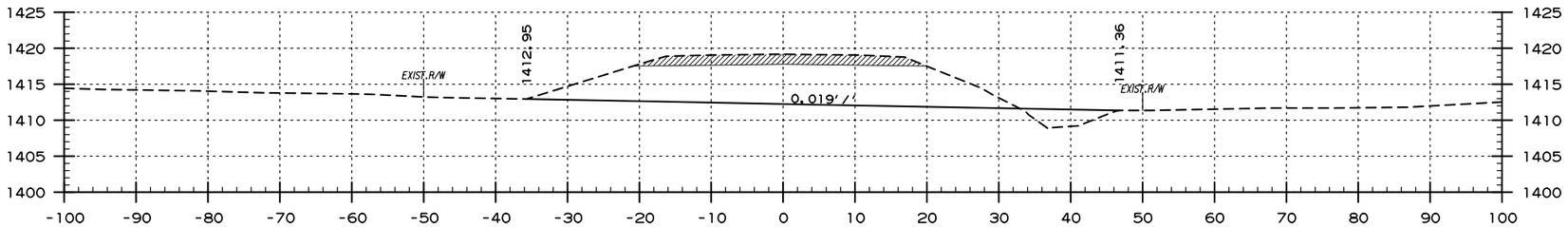
2 CROSS SECTIONS

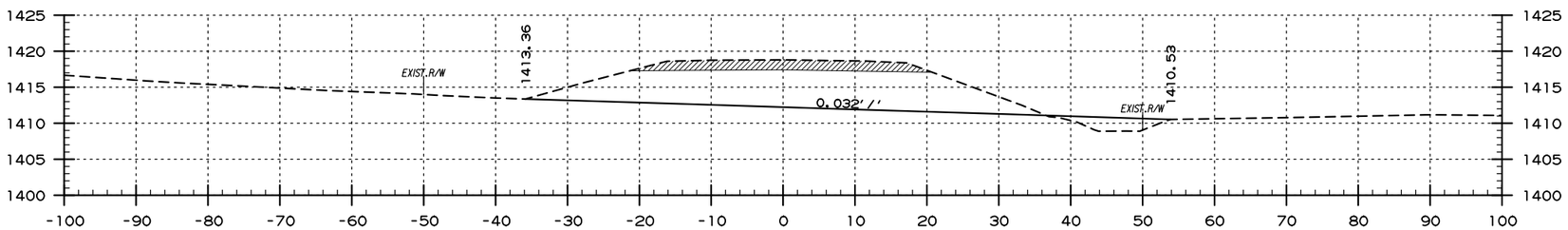
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 346 SQ.FT.
AREA FILL : 22 SQ.FT.

119+00.00

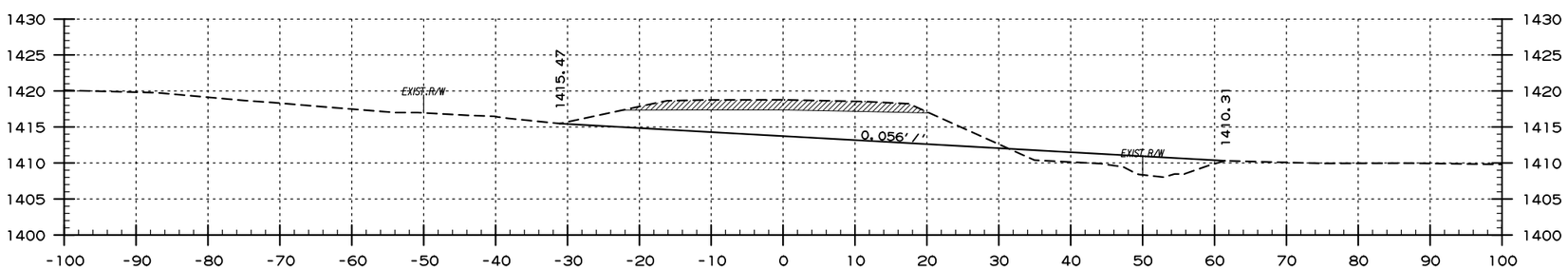
CUT VOLUME : 635 CU.YD.
FILL VOLUME : 38 CU.YD.



AREA CUT : 340 SQ.FT.
AREA FILL : 20 SQ.FT.

118+50.00

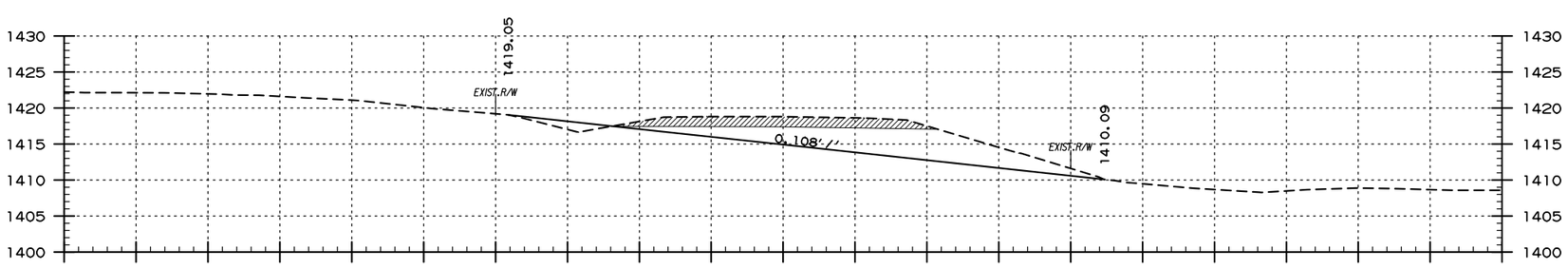
CUT VOLUME : 532 CU.YD.
FILL VOLUME : 61 CU.YD.



AREA CUT : 235 SQ.FT.
AREA FILL : 46 SQ.FT.

118+00.00

CUT VOLUME : 413 CU.YD.
FILL VOLUME : 52 CU.YD.



AREA CUT : 211 SQ.FT.
AREA FILL : 10 SQ.FT.

117+50.00

CUT VOLUME : 246 CU.YD.
FILL VOLUME : 158 CU.YD.

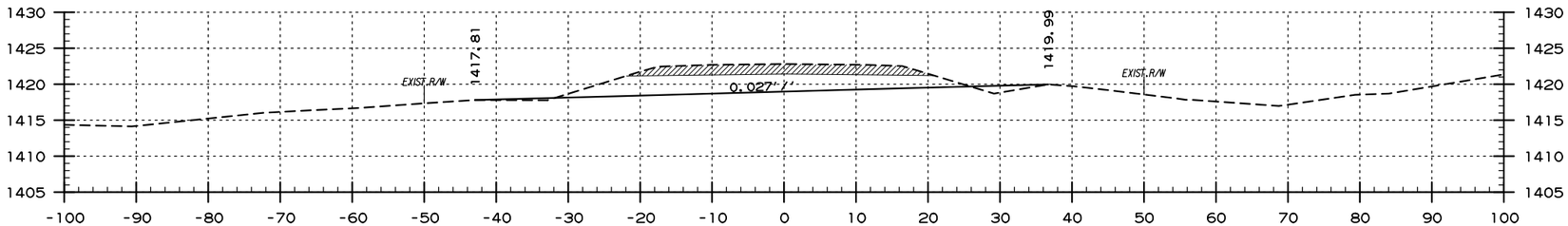
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 117+50 TO STA. 119+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	135	151

2 CROSS SECTIONS

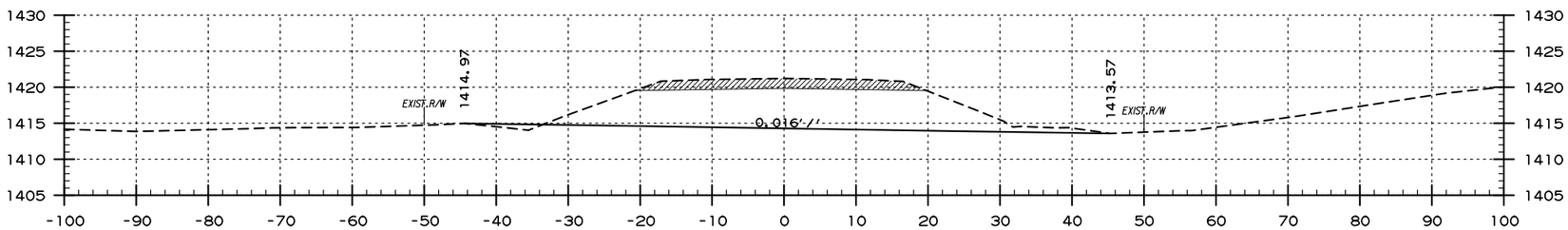
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 169 SQ.FT.
AREA FILL : 7 SQ.FT.

120+50.00

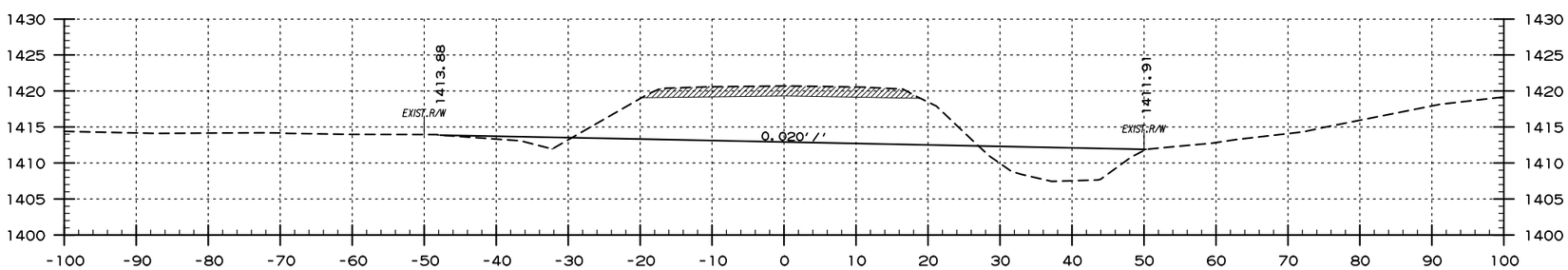
CUT VOLUME : 478 CU.YD.
FILL VOLUME : 11 CU.YD.



AREA CUT : 347 SQ.FT.
AREA FILL : 4 SQ.FT.

120+00.00

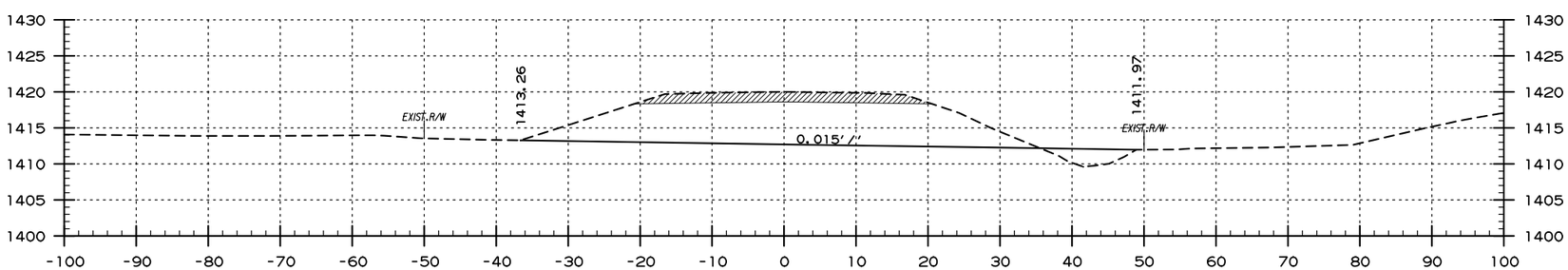
CUT VOLUME : 232 CU.YD.
FILL VOLUME : 30 CU.YD.



AREA CUT : 348 SQ.FT.
AREA FILL : 85 SQ.FT.

119+82.00

CUT VOLUME : 430 CU.YD.
FILL VOLUME : 62 CU.YD.



AREA CUT : 377 SQ.FT.
AREA FILL : 20 SQ.FT.

119+50.00

CUT VOLUME : 669 CU.YD.
FILL VOLUME : 38 CU.YD.

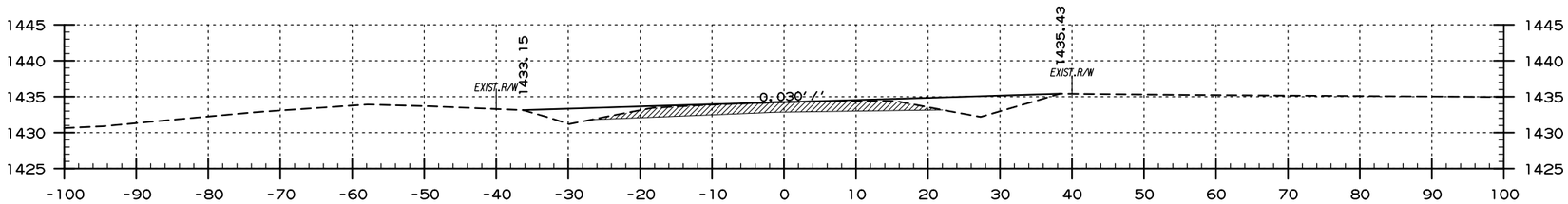
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 119+50 TO STA. 120+50

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	136	151

2 CROSS SECTIONS

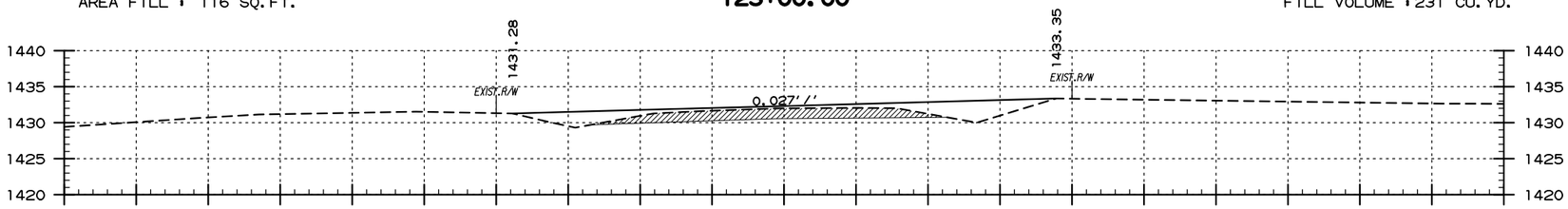
PERI 152541 DRAWING NO. 409/150019



AREA CUT = 57 SQ.FT.
AREA FILL = 116 SQ.FT.

123+00.00

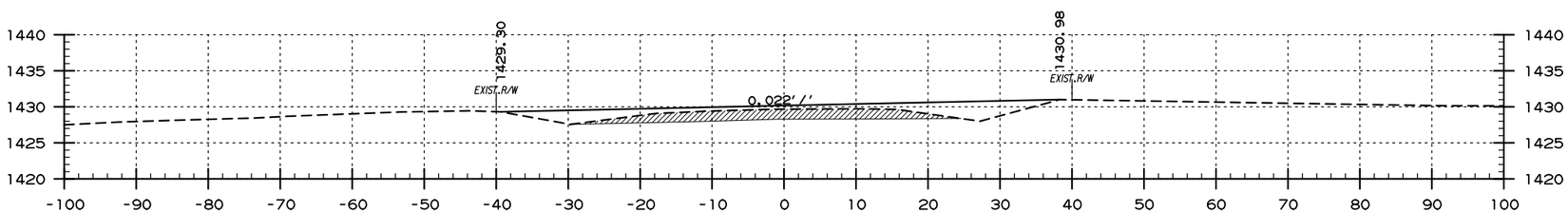
CUT VOLUME = 106 CU.YD.
FILL VOLUME = 231 CU.YD.



AREA CUT = 57 SQ.FT.
AREA FILL = 134 SQ.FT.

122+50.00

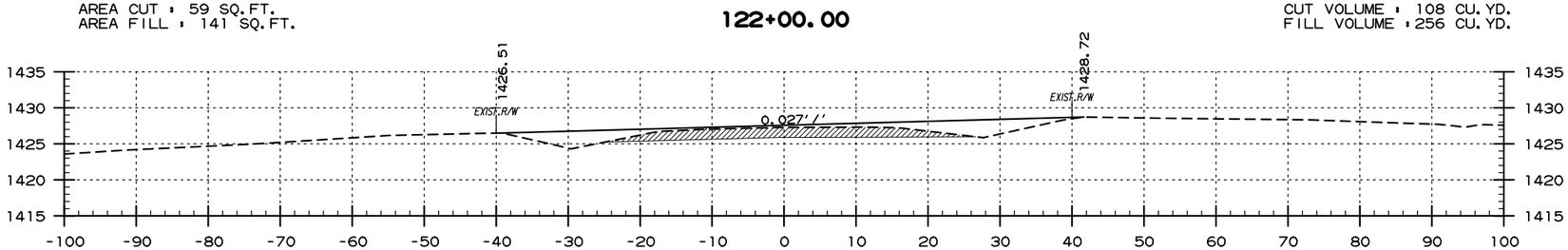
CUT VOLUME = 107 CU.YD.
FILL VOLUME = 255 CU.YD.



AREA CUT = 59 SQ.FT.
AREA FILL = 141 SQ.FT.

122+00.00

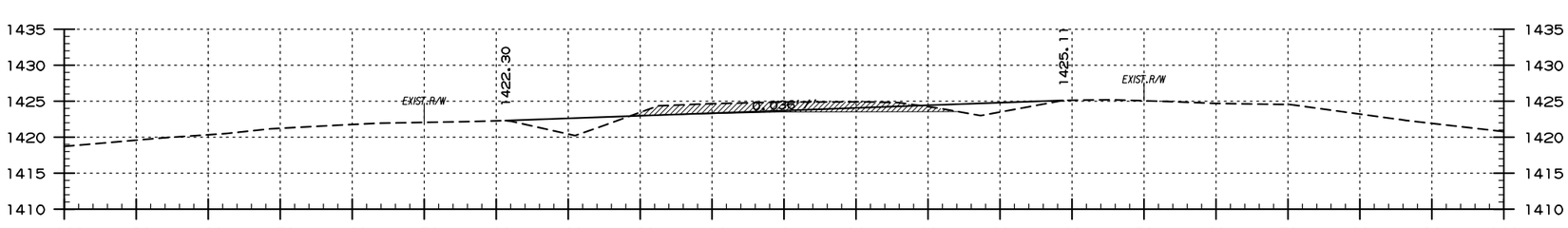
CUT VOLUME = 108 CU.YD.
FILL VOLUME = 256 CU.YD.



AREA CUT = 58 SQ.FT.
AREA FILL = 135 SQ.FT.

121+50.00

CUT VOLUME = 104 CU.YD.
FILL VOLUME = 172 CU.YD.



AREA CUT = 54 SQ.FT.
AREA FILL = 51 SQ.FT.

121+00.00

CUT VOLUME = 206 CU.YD.
FILL VOLUME = 54 CU.YD.

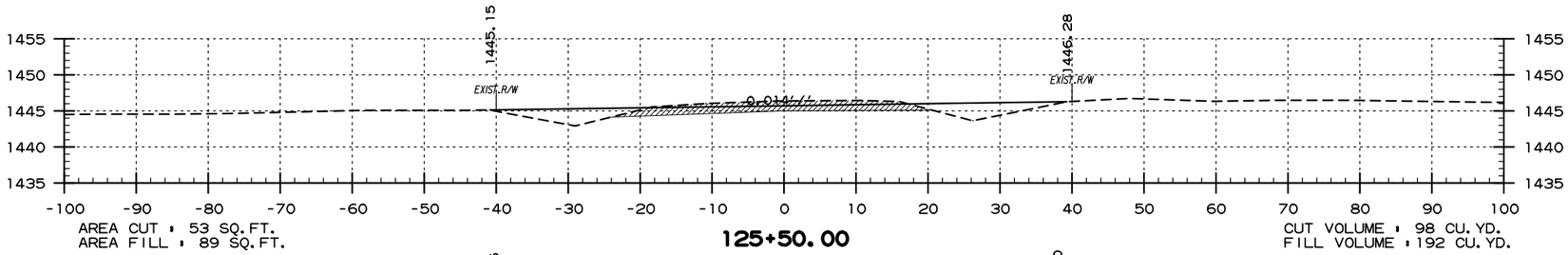
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 121+00 TO STA. 123+00

USER: f6513
DESIGN FILE: G:\181019 00_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58 SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	137	151

2 CROSS SECTIONS

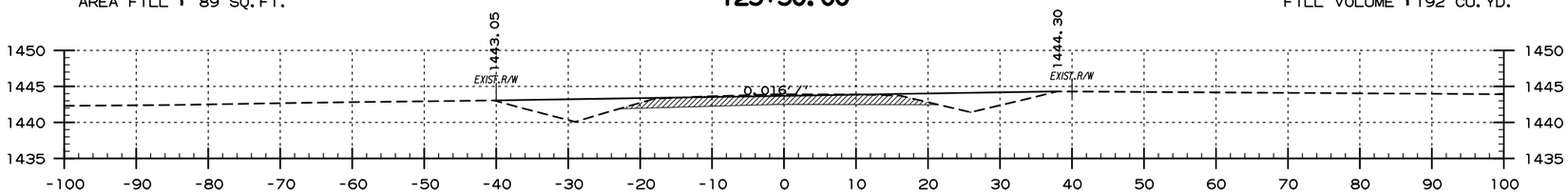
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 53 SQ.FT.
AREA FILL : 89 SQ.FT.

125+50.00

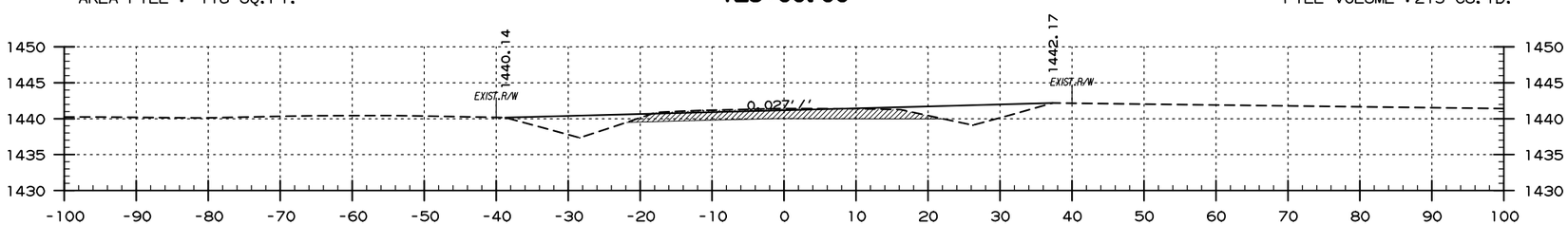
CUT VOLUME : 98 CU.YD.
FILL VOLUME : 192 CU.YD.



AREA CUT : 53 SQ.FT.
AREA FILL : 118 SQ.FT.

125+00.00

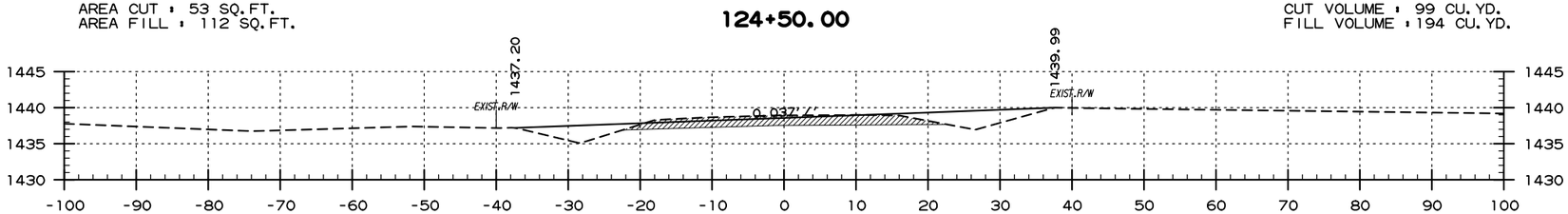
CUT VOLUME : 98 CU.YD.
FILL VOLUME : 213 CU.YD.



AREA CUT : 53 SQ.FT.
AREA FILL : 112 SQ.FT.

124+50.00

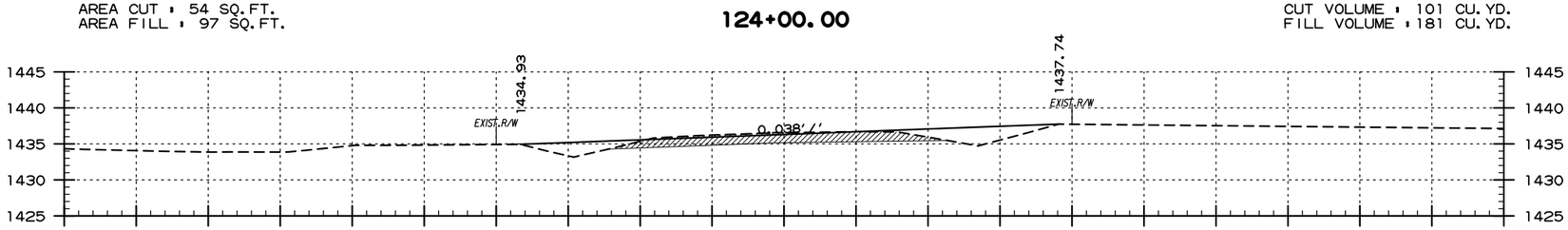
CUT VOLUME : 99 CU.YD.
FILL VOLUME : 194 CU.YD.



AREA CUT : 54 SQ.FT.
AREA FILL : 97 SQ.FT.

124+00.00

CUT VOLUME : 101 CU.YD.
FILL VOLUME : 181 CU.YD.



AREA CUT : 55 SQ.FT.
AREA FILL : 98 SQ.FT.

123+50.00

CUT VOLUME : 104 CU.YD.
FILL VOLUME : 198 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 123+50 TO STA. 125+50

USER: fs5l3
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

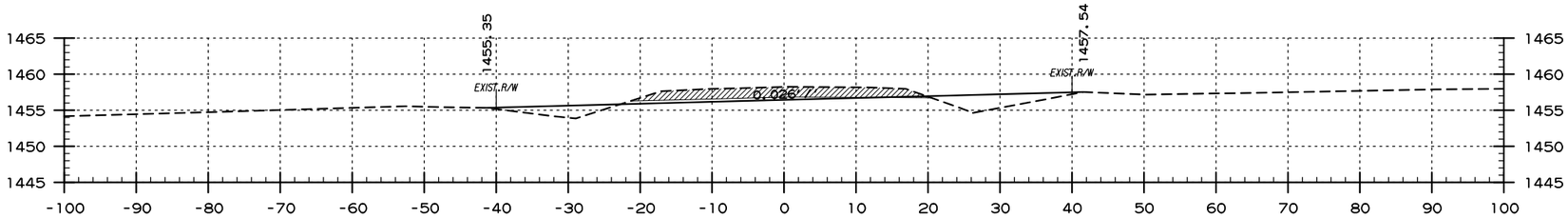
G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn 9/8/2020 09:58

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	138	151

2 CROSS SECTIONS

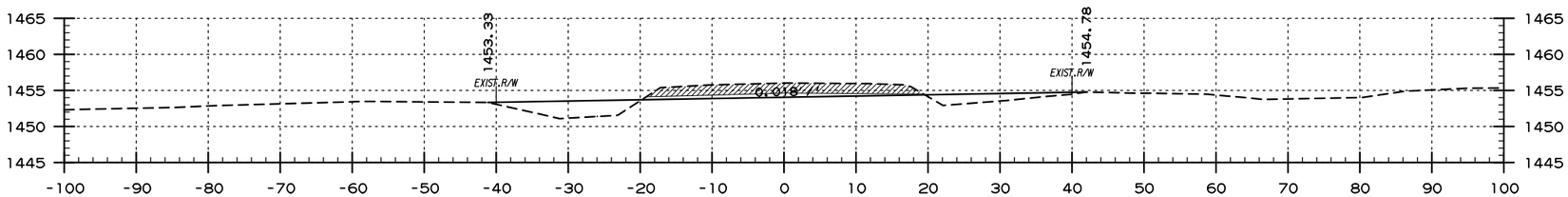
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 62 SQ.FT.
AREA FILL : 45 SQ.FT.

128+00.00

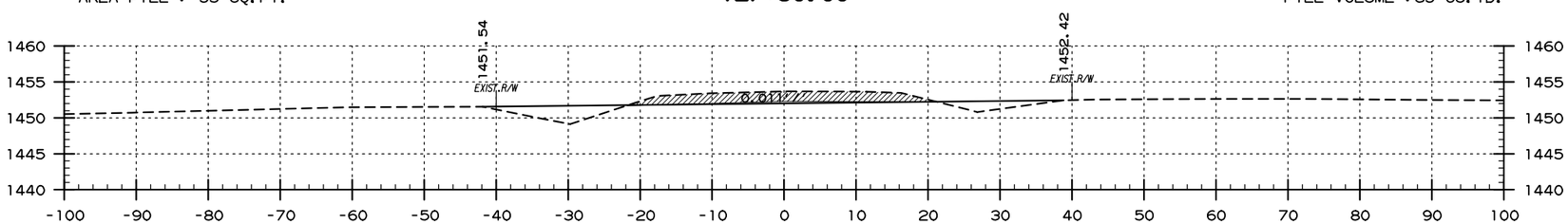
CUT VOLUME : 119 CU.YD.
FILL VOLUME : 90 CU.YD.



AREA CUT : 66 SQ.FT.
AREA FILL : 53 SQ.FT.

127+50.00

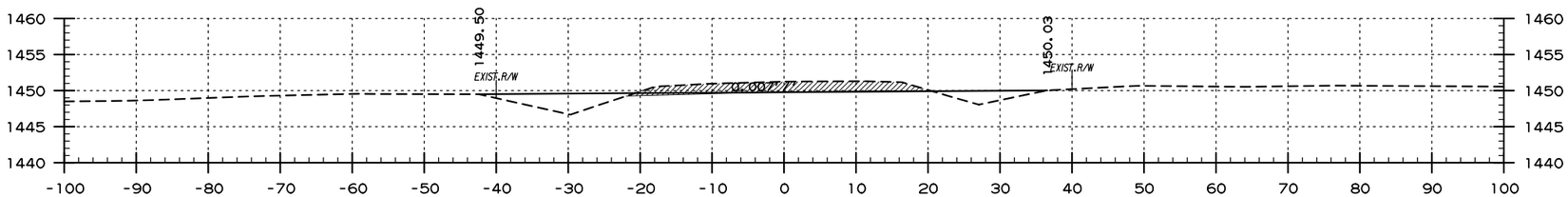
CUT VOLUME : 114 CU.YD.
FILL VOLUME : 85 CU.YD.



AREA CUT : 57 SQ.FT.
AREA FILL : 39 SQ.FT.

127+00.00

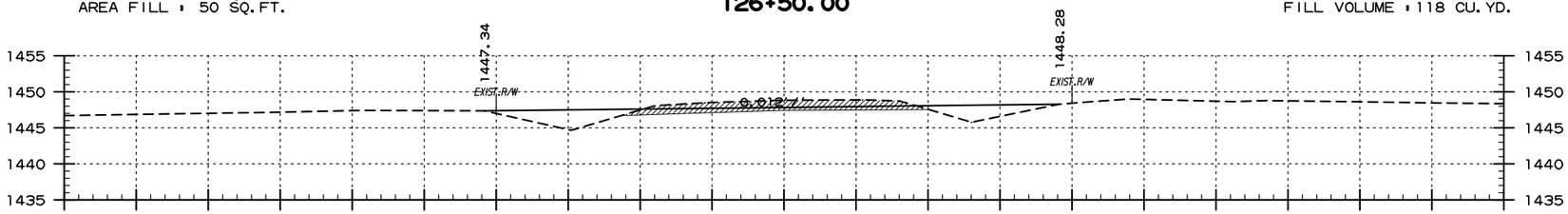
CUT VOLUME : 102 CU.YD.
FILL VOLUME : 82 CU.YD.



AREA CUT : 53 SQ.FT.
AREA FILL : 50 SQ.FT.

126+50.00

CUT VOLUME : 97 CU.YD.
FILL VOLUME : 118 CU.YD.



AREA CUT : 52 SQ.FT.
AREA FILL : 77 SQ.FT.

126+00.00

CUT VOLUME : 97 CU.YD.
FILL VOLUME : 154 CU.YD.

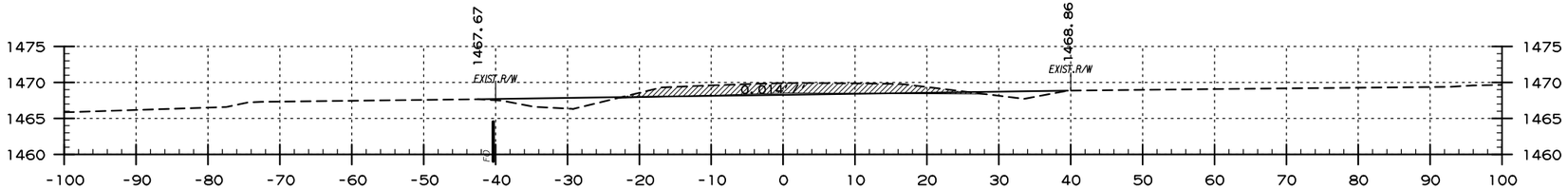
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 126+00 TO STA. 128+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	139	151

2 CROSS SECTIONS

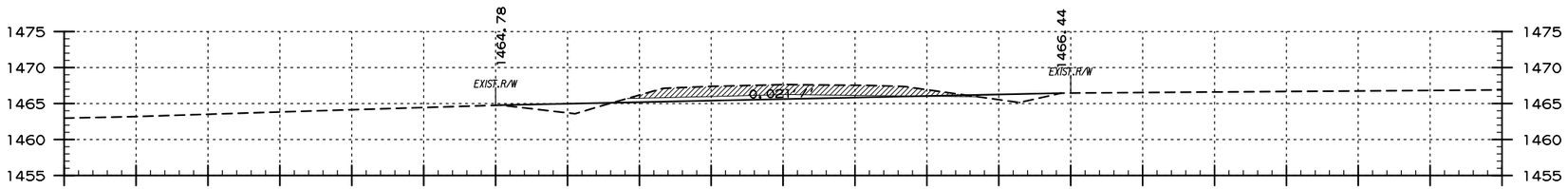
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 61 SQ.FT.
AREA FILL : 26 SQ.FT.

130+50.00

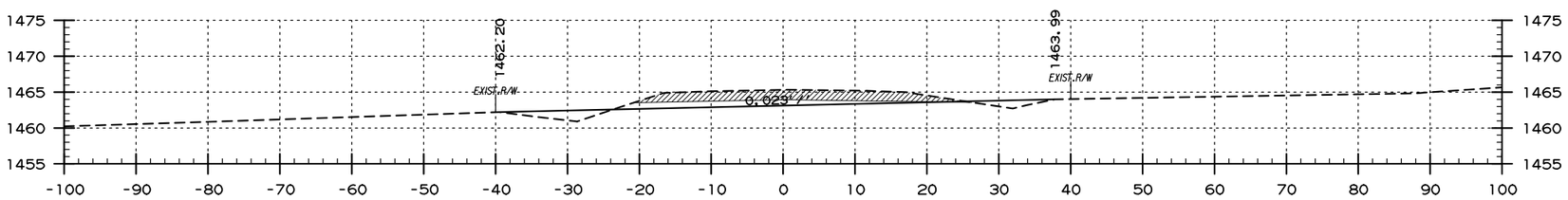
CUT VOLUME : 126 CU.YD.
FILL VOLUME : 41 CU.YD.



AREA CUT : 75 SQ.FT.
AREA FILL : 19 SQ.FT.

130+00.00

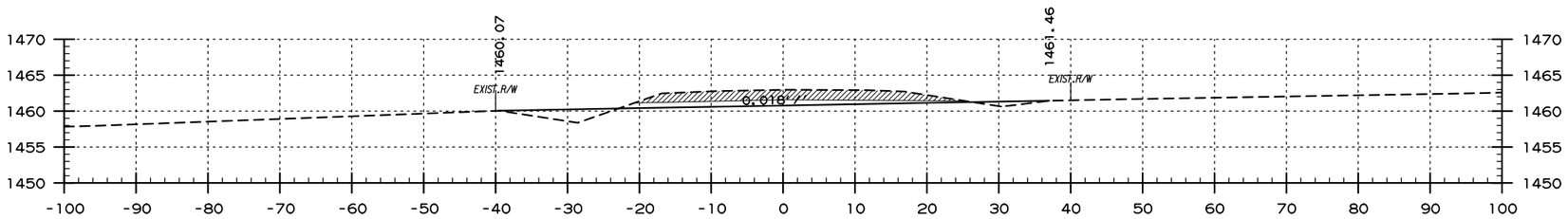
CUT VOLUME : 146 CU.YD.
FILL VOLUME : 36 CU.YD.



AREA CUT : 83 SQ.FT.
AREA FILL : 20 SQ.FT.

129+50.00

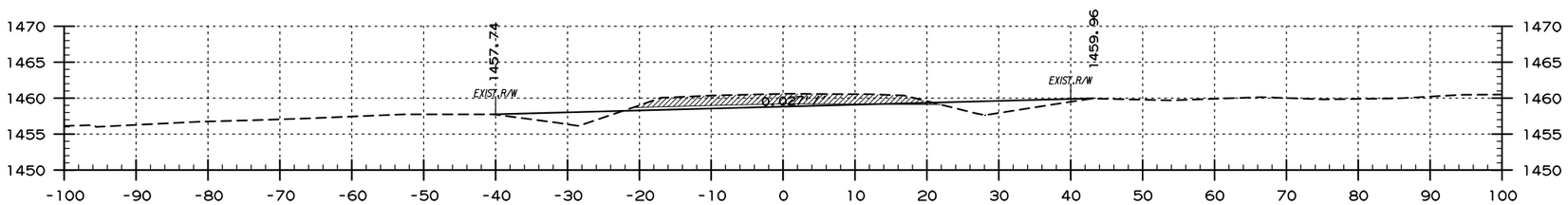
CUT VOLUME : 154 CU.YD.
FILL VOLUME : 37 CU.YD.



AREA CUT : 83 SQ.FT.
AREA FILL : 20 SQ.FT.

129+00.00

CUT VOLUME : 135 CU.YD.
FILL VOLUME : 55 CU.YD.



AREA CUT : 63 SQ.FT.
AREA FILL : 40 SQ.FT.

128+50.00

CUT VOLUME : 116 CU.YD.
FILL VOLUME : 79 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 128+50 TO STA. 130+50

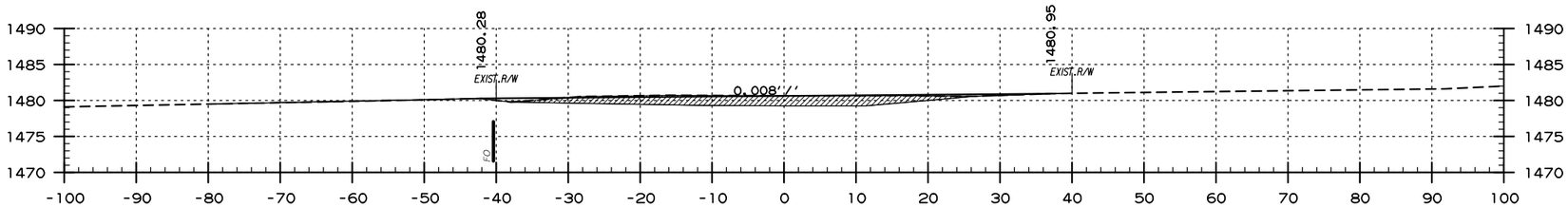
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	140	151

2 CROSS SECTIONS

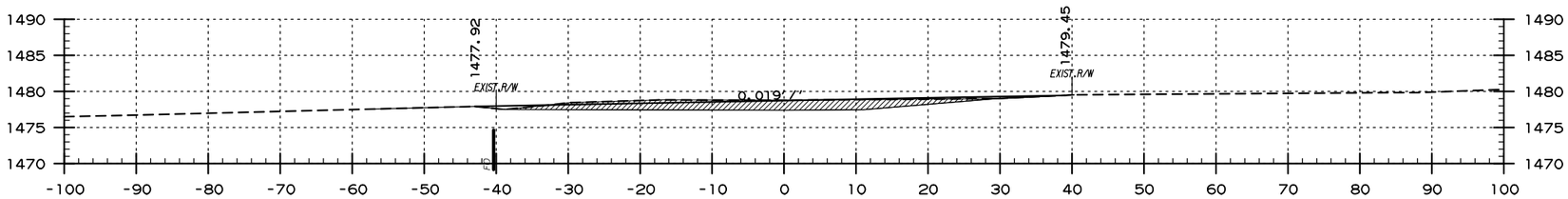
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 5 SQ.FT.
AREA FILL : 7 SQ.FT.

133+00.00

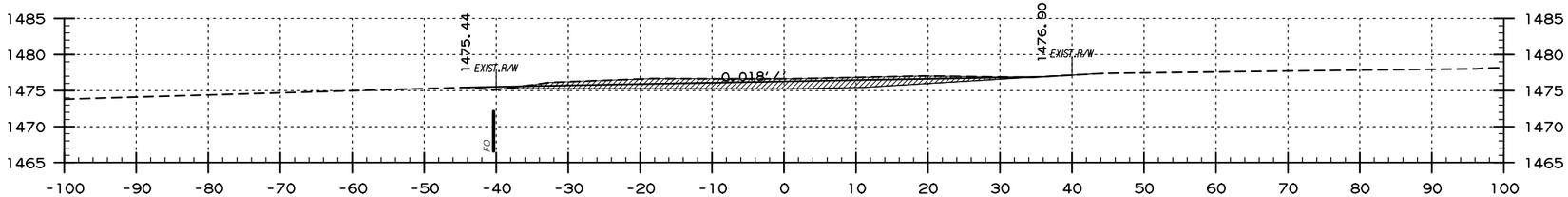
CUT VOLUME : 129 CU.YD.
FILL VOLUME : 130 CU.YD.



AREA CUT : 9 SQ.FT.
AREA FILL : 7 SQ.FT.

132+50.00

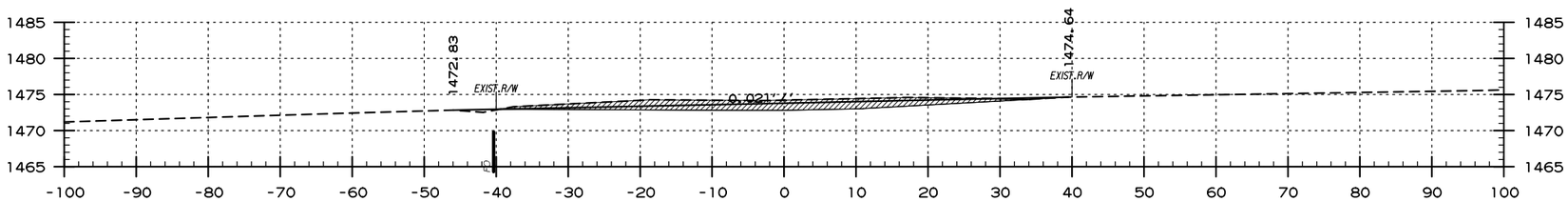
CUT VOLUME : 139 CU.YD.
FILL VOLUME : 112 CU.YD.



AREA CUT : 30 SQ.FT.
AREA FILL : 2 SQ.FT.

132+00.00

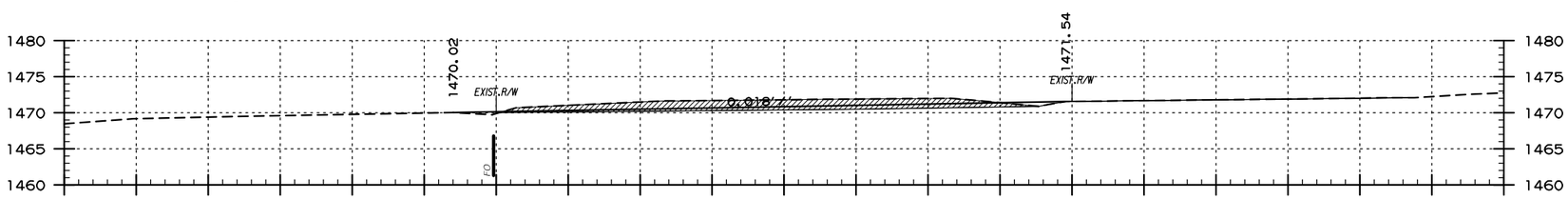
CUT VOLUME : 144 CU.YD.
FILL VOLUME : 91 CU.YD.



AREA CUT : 32 SQ.FT.
AREA FILL : 2 SQ.FT.

131+50.00

CUT VOLUME : 151 CU.YD.
FILL VOLUME : 74 CU.YD.



AREA CUT : 56 SQ.FT.
AREA FILL : 4 SQ.FT.

131+00.00

CUT VOLUME : 136 CU.YD.
FILL VOLUME : 55 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 131+00 TO STA. 133+00

USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

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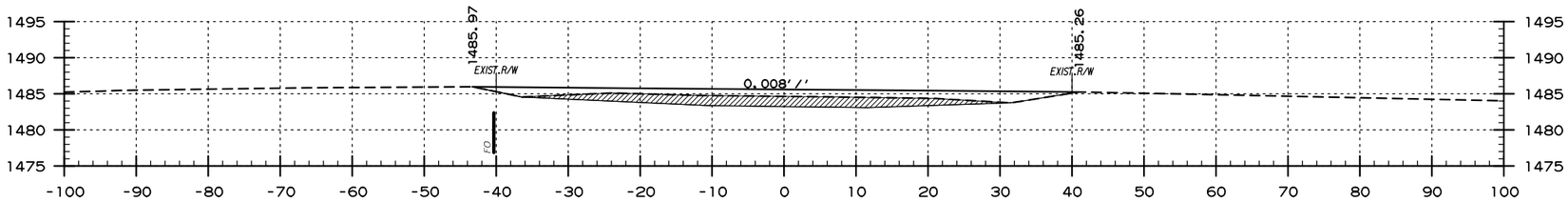
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	141	151

2 CROSS SECTIONS

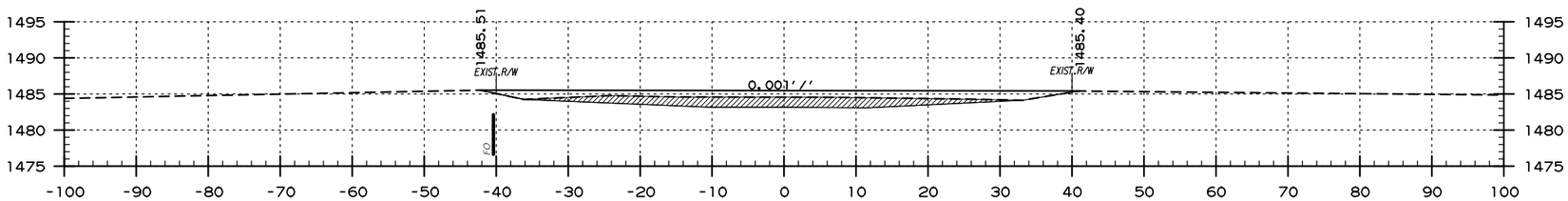
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 0 SQ.FT.
AREA FILL : 81 SQ.FT.

135+50.00

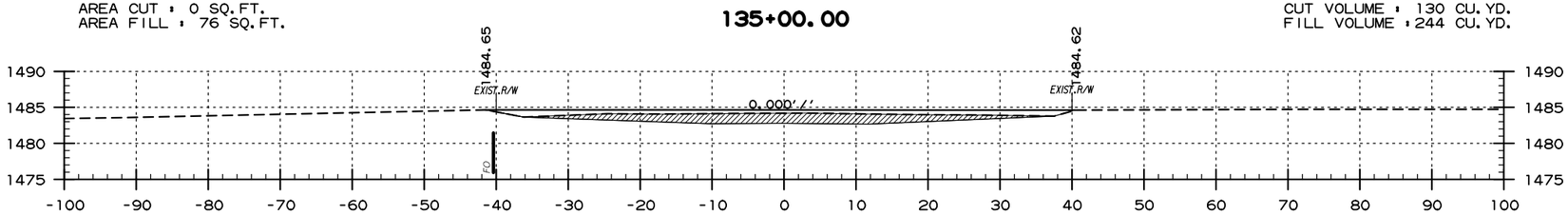
CUT VOLUME : 130 CU.YD.
FILL VOLUME : 275 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 76 SQ.FT.

135+00.00

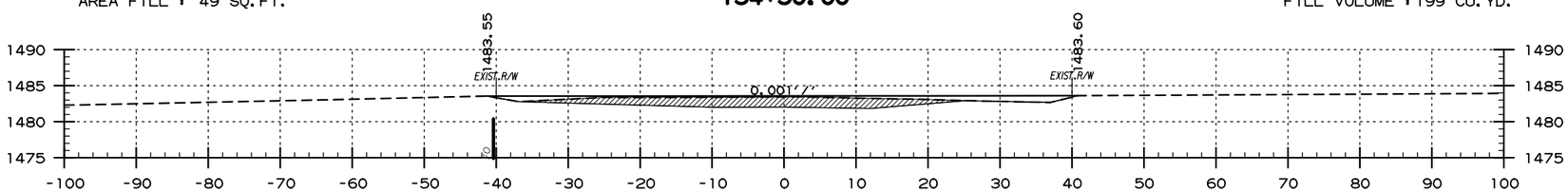
CUT VOLUME : 130 CU.YD.
FILL VOLUME : 244 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 49 SQ.FT.

134+50.00

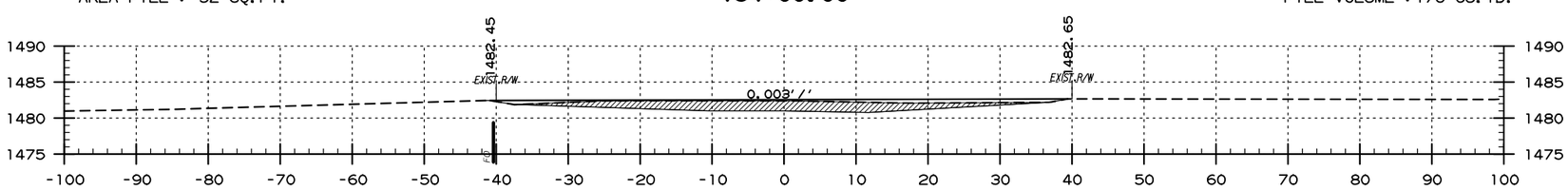
CUT VOLUME : 125 CU.YD.
FILL VOLUME : 199 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 32 SQ.FT.

134+00.00

CUT VOLUME : 124 CU.YD.
FILL VOLUME : 176 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 25 SQ.FT.

133+50.00

CUT VOLUME : 127 CU.YD.
FILL VOLUME : 152 CU.YD.

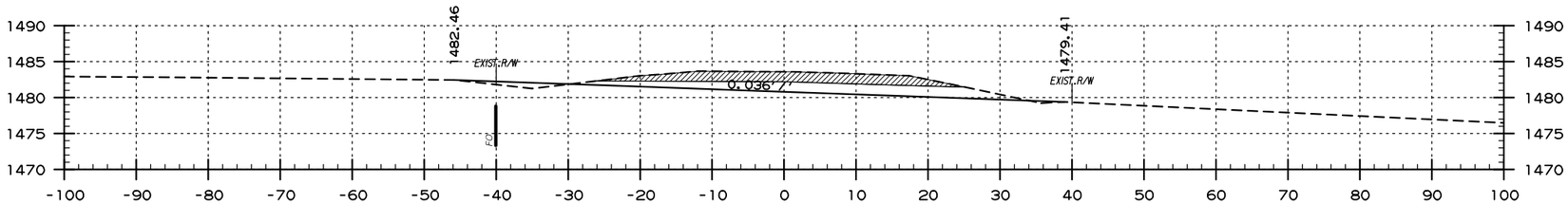
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 133+50 TO STA. 135+50

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	142	151

2 CROSS SECTIONS

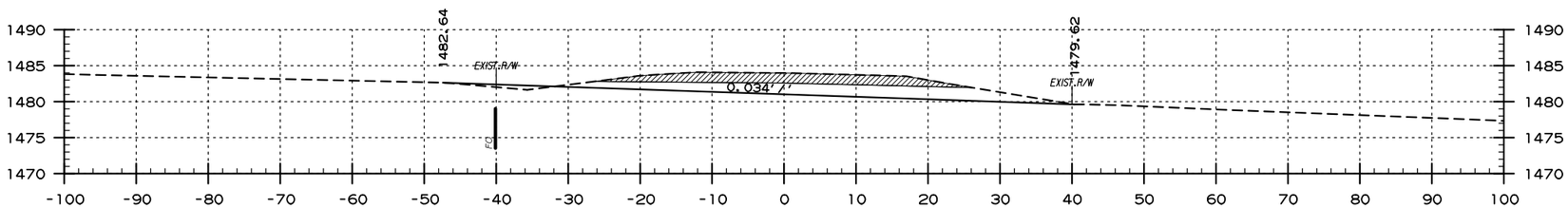
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 128 SQ.FT.
AREA FILL : 7 SQ.FT.

138+00.00

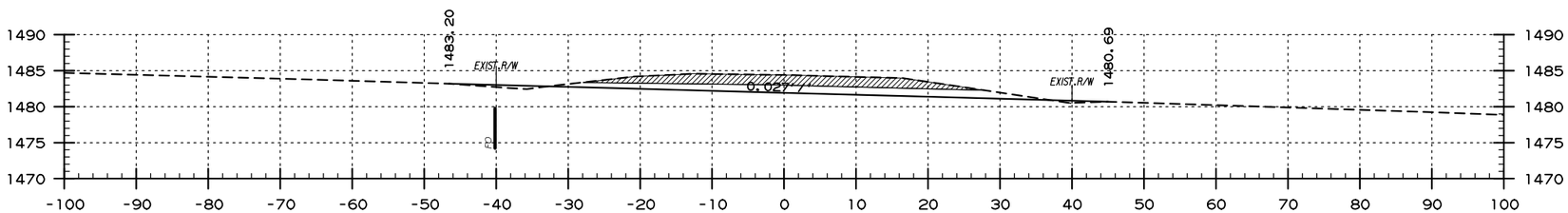
CUT VOLUME : 258 CU.YD.
FILL VOLUME : 11 CU.YD.



AREA CUT : 151 SQ.FT.
AREA FILL : 5 SQ.FT.

137+50.00

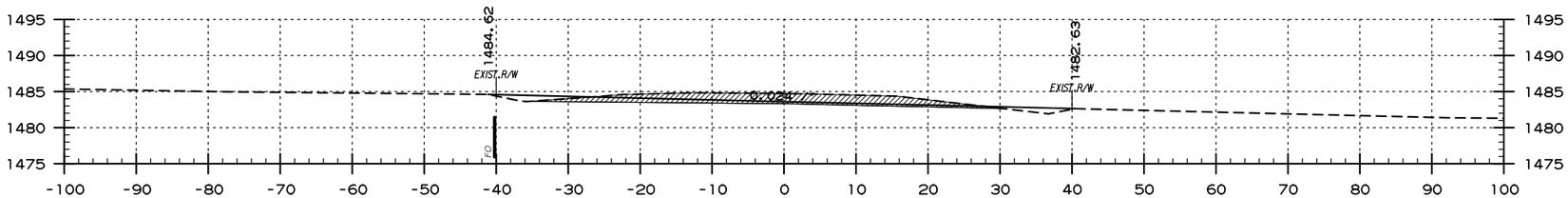
CUT VOLUME : 254 CU.YD.
FILL VOLUME : 9 CU.YD.



AREA CUT : 123 SQ.FT.
AREA FILL : 5 SQ.FT.

137+00.00

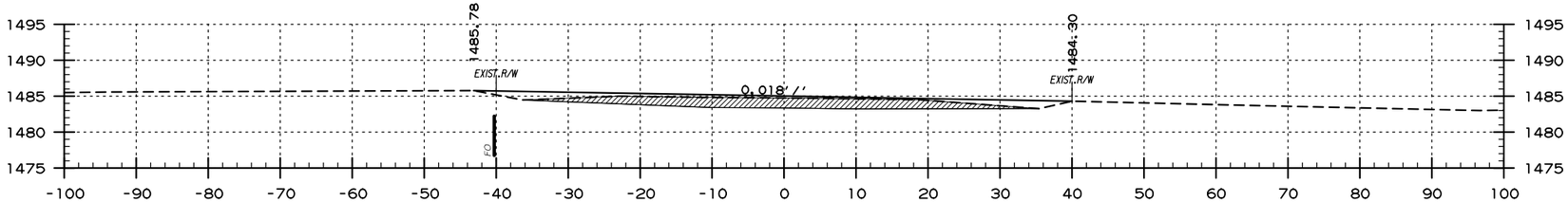
CUT VOLUME : 178 CU.YD.
FILL VOLUME : 37 CU.YD.



AREA CUT : 45 SQ.FT.
AREA FILL : 12 SQ.FT.

136+50.00

CUT VOLUME : 132 CU.YD.
FILL VOLUME : 138 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 41 SQ.FT.

136+00.00

CUT VOLUME : 134 CU.YD.
FILL VOLUME : 246 CU.YD.

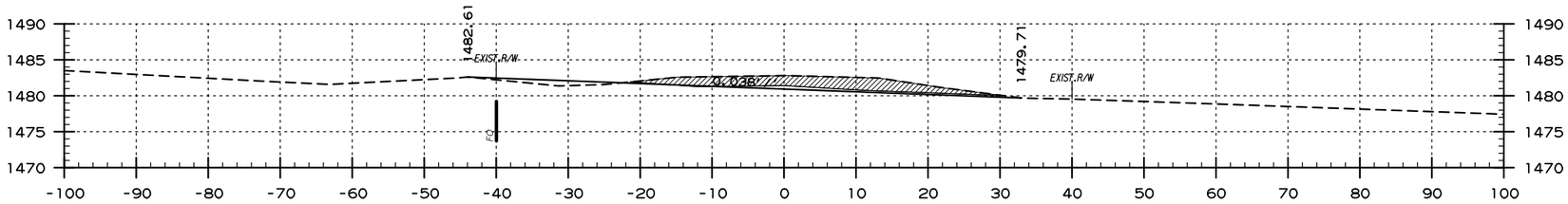
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 136+00 TO STA. 138+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	143	151

2 CROSS SECTIONS

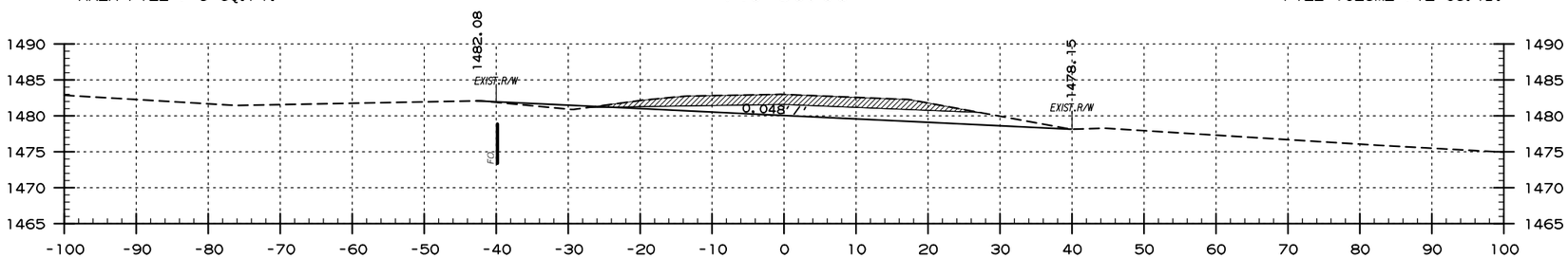
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 71 SQ.FT.
AREA FILL : 9 SQ.FT.

140+50.00

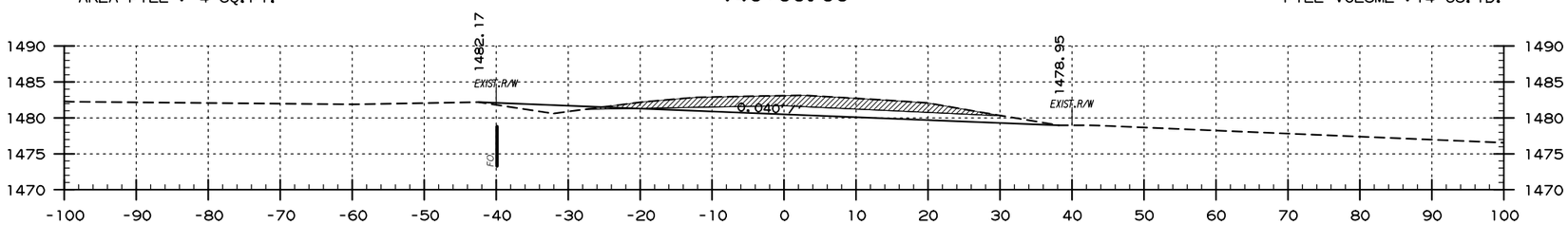
CUT VOLUME : 190 CU.YD.
FILL VOLUME : 12 CU.YD.



AREA CUT : 134 SQ.FT.
AREA FILL : 4 SQ.FT.

140+00.00

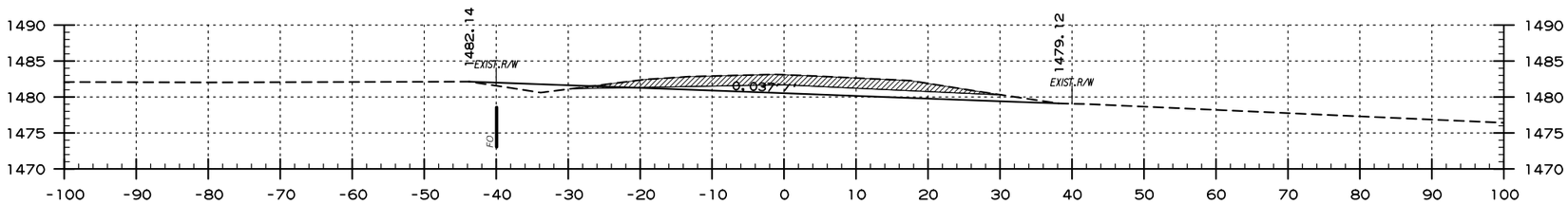
CUT VOLUME : 231 CU.YD.
FILL VOLUME : 14 CU.YD.



AREA CUT : 114 SQ.FT.
AREA FILL : 10 SQ.FT.

139+50.00

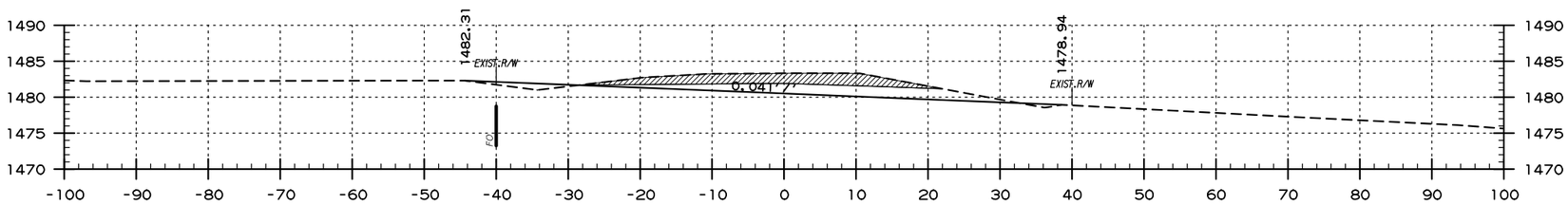
CUT VOLUME : 211 CU.YD.
FILL VOLUME : 20 CU.YD.



AREA CUT : 111 SQ.FT.
AREA FILL : 10 SQ.FT.

139+00.00

CUT VOLUME : 213 CU.YD.
FILL VOLUME : 19 CU.YD.



AREA CUT : 118 SQ.FT.
AREA FILL : 9 SQ.FT.

138+50.00

CUT VOLUME : 227 CU.YD.
FILL VOLUME : 15 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 138+50 TO STA. 140+50

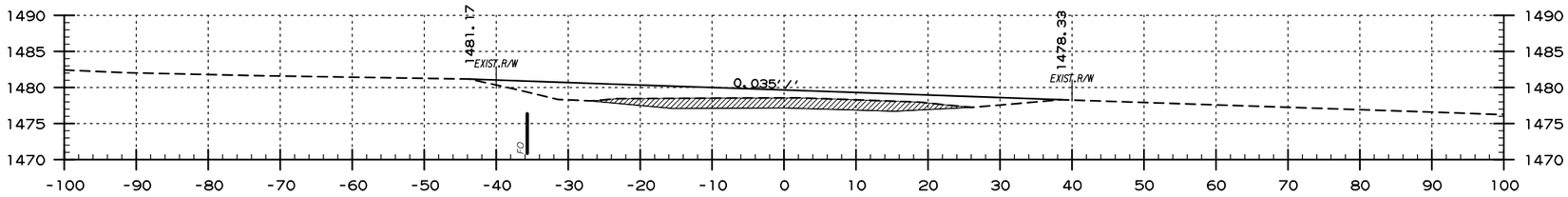
USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	144	151

2 CROSS SECTIONS

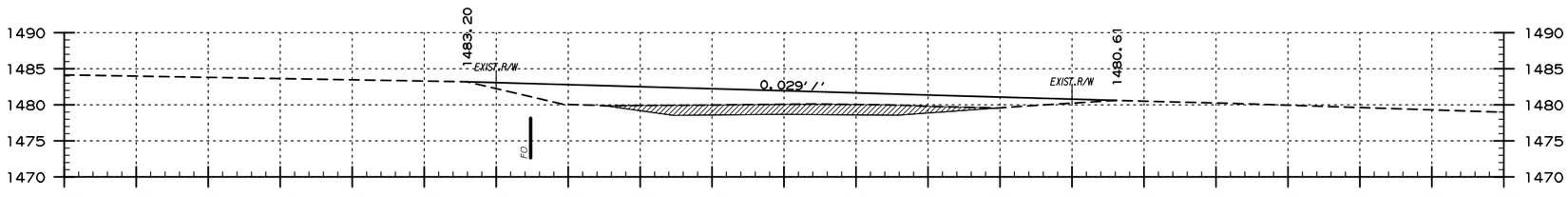
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 0 SQ.FT.
AREA FILL : 107 SQ.FT.

143+00.00

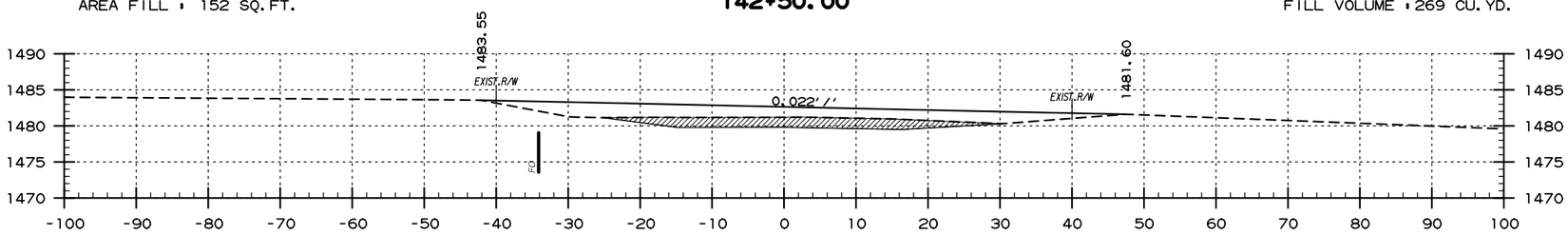
CUT VOLUME : 112 CU.YD.
FILL VOLUME : 352 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 152 SQ.FT.

142+50.00

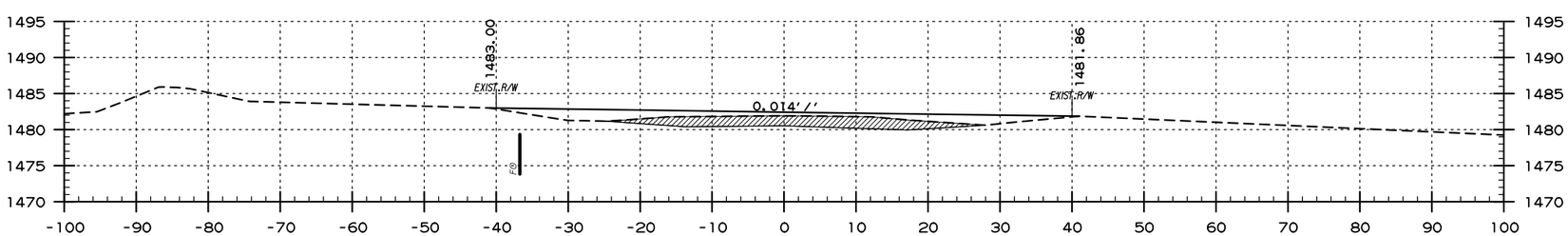
CUT VOLUME : 113 CU.YD.
FILL VOLUME : 269 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 125 SQ.FT.

142+00.00

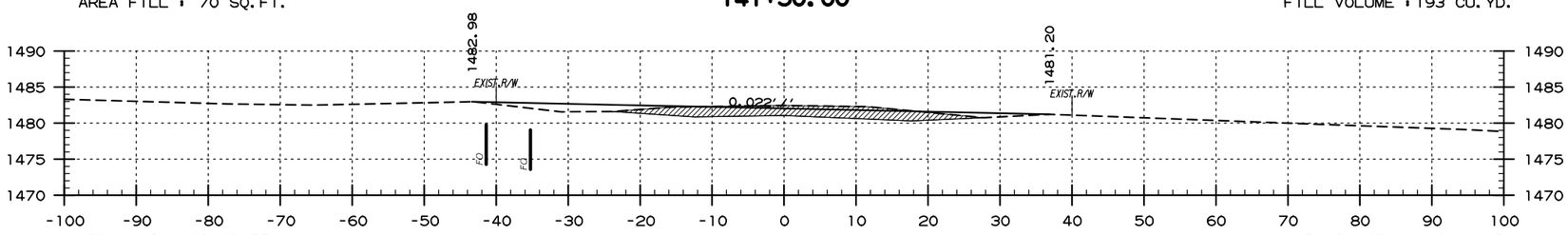
CUT VOLUME : 114 CU.YD.
FILL VOLUME : 294 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 70 SQ.FT.

141+50.00

CUT VOLUME : 113 CU.YD.
FILL VOLUME : 193 CU.YD.



AREA CUT : 10 SQ.FT.
AREA FILL : 25 SQ.FT.

141+00.00

CUT VOLUME : 122 CU.YD.
FILL VOLUME : 80 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 141+00 TO STA. 143+00

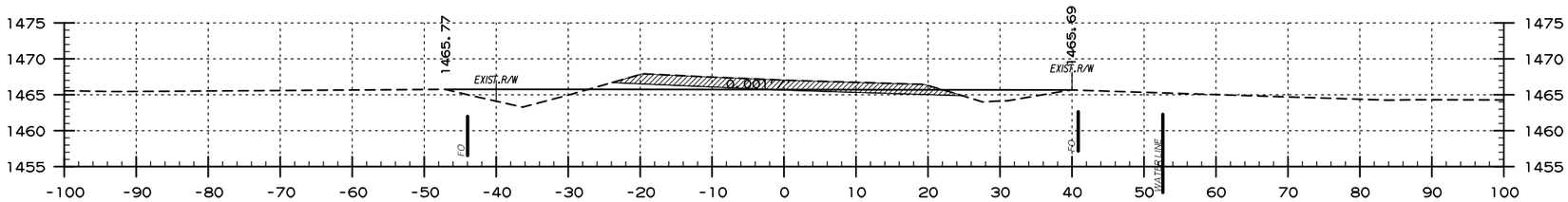
USER: fe513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	145	151

2 CROSS SECTIONS

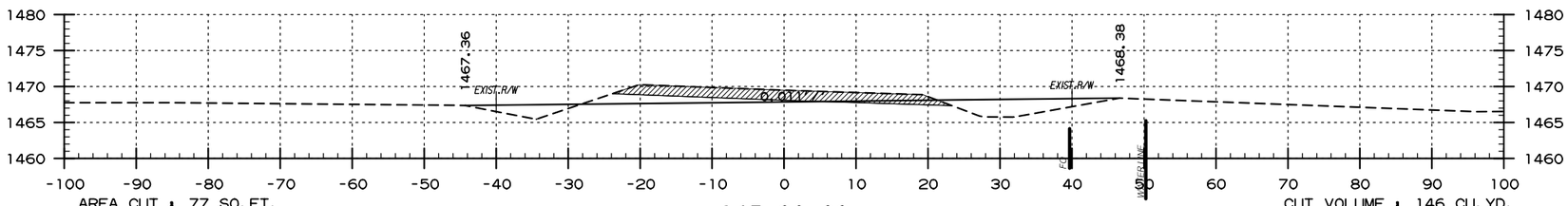
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 63 SQ.FT.
AREA FILL : 42 SQ.FT.

145+50.00

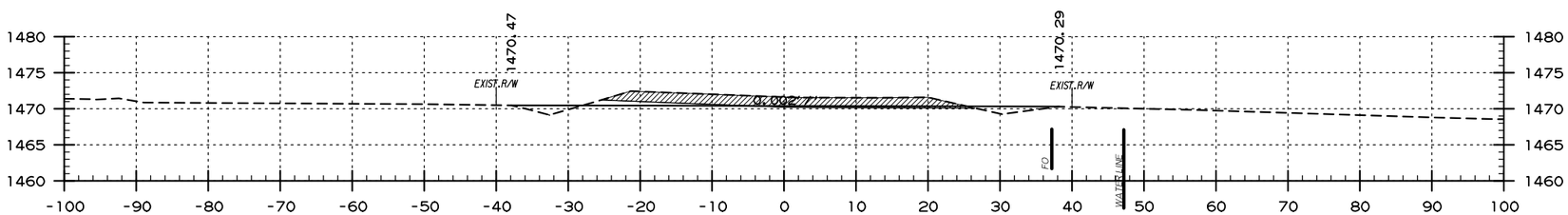
CUT VOLUME : 145 CU.YD.
FILL VOLUME : 103 CU.YD.



AREA CUT : 77 SQ.FT.
AREA FILL : 53 SQ.FT.

145+00.00

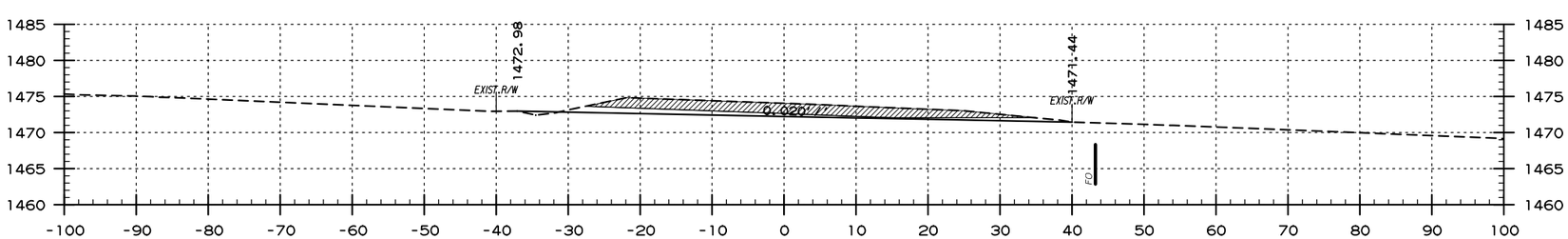
CUT VOLUME : 146 CU.YD.
FILL VOLUME : 72 CU.YD.



AREA CUT : 68 SQ.FT.
AREA FILL : 13 SQ.FT.

144+50.00

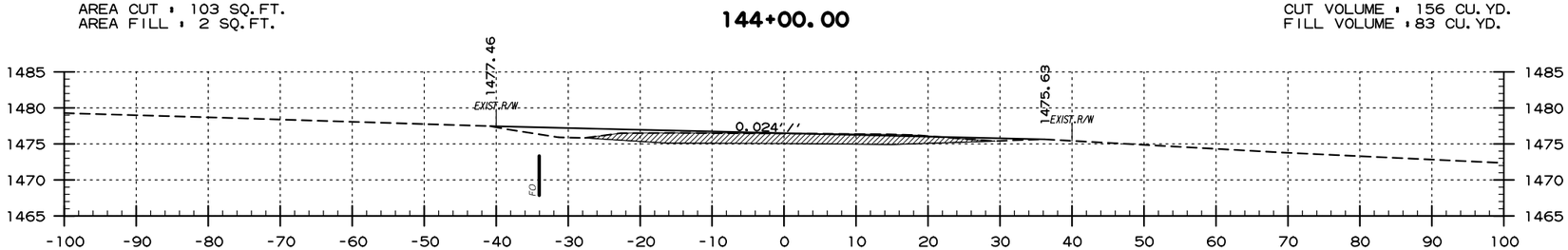
CUT VOLUME : 165 CU.YD.
FILL VOLUME : 19 CU.YD.



AREA CUT : 103 SQ.FT.
AREA FILL : 2 SQ.FT.

144+00.00

CUT VOLUME : 156 CU.YD.
FILL VOLUME : 83 CU.YD.



AREA CUT : 2 SQ.FT.
AREA FILL : 25 SQ.FT.

143+50.00

CUT VOLUME : 117 CU.YD.
FILL VOLUME : 237 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 143+50 TO STA. 145+50

USER: f6513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

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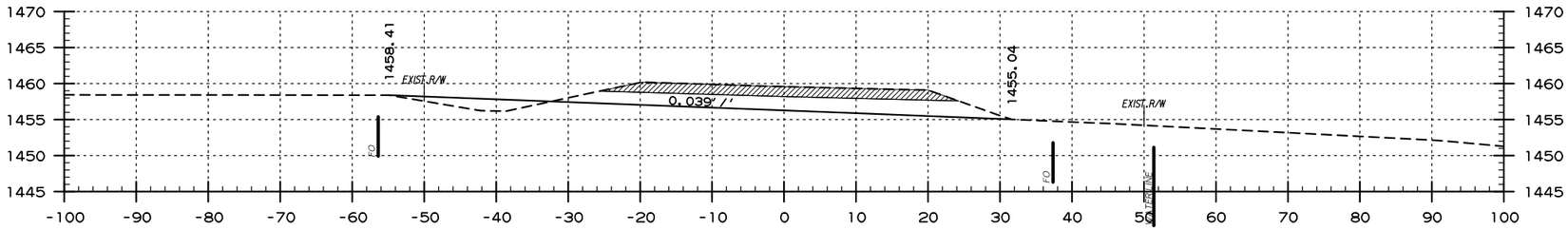
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	146	151

2 CROSS SECTIONS

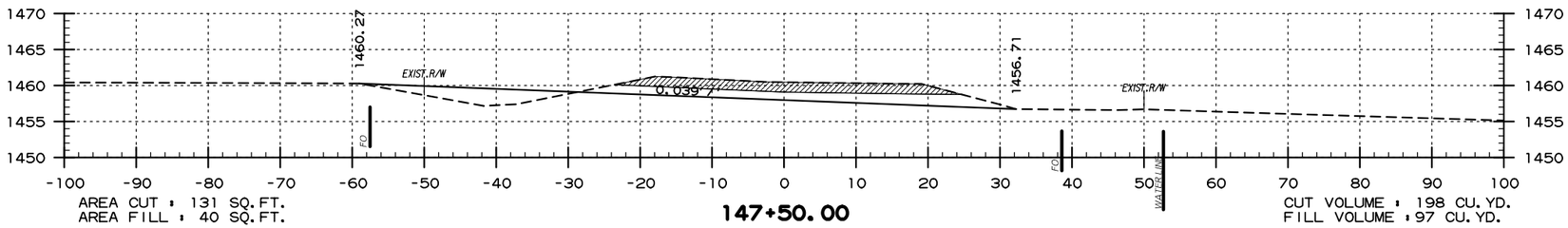
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 174 SQ.FT.
AREA FILL : 21 SQ.FT.

148+00.00

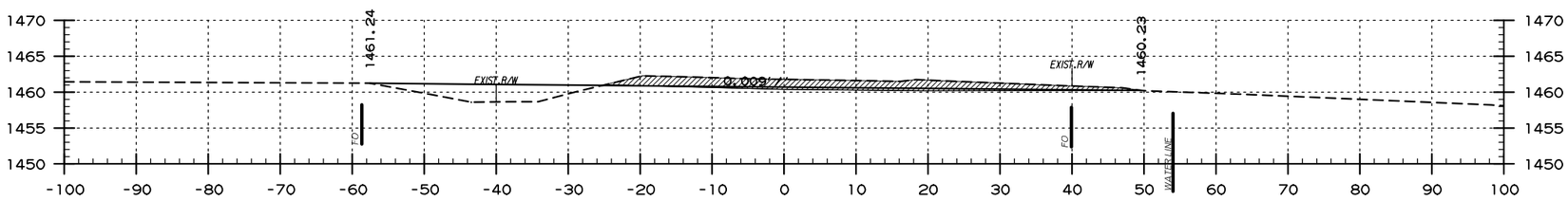
CUT VOLUME : 282 CU.YD.
FILL VOLUME : 56 CU.YD.



AREA CUT : 131 SQ.FT.
AREA FILL : 40 SQ.FT.

147+50.00

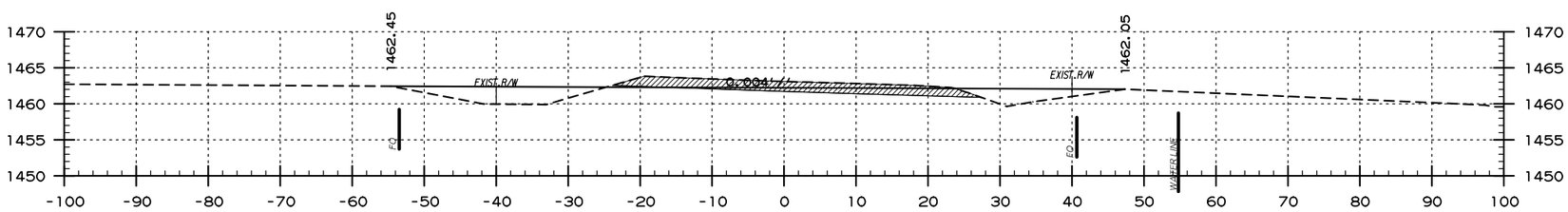
CUT VOLUME : 198 CU.YD.
FILL VOLUME : 97 CU.YD.



AREA CUT : 69 SQ.FT.
AREA FILL : 50 SQ.FT.

147+00.00

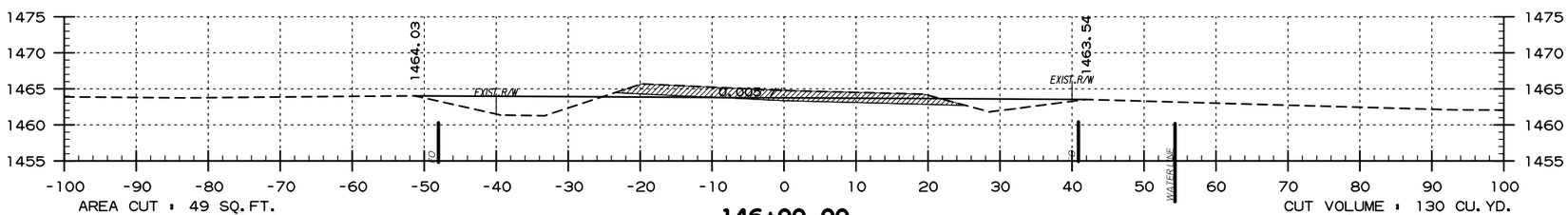
CUT VOLUME : 138 CU.YD.
FILL VOLUME : 154 CU.YD.



AREA CUT : 40 SQ.FT.
AREA FILL : 75 SQ.FT.

146+50.00

CUT VOLUME : 123 CU.YD.
FILL VOLUME : 166 CU.YD.



AREA CUT : 49 SQ.FT.
AREA FILL : 61 SQ.FT.

146+00.00

CUT VOLUME : 130 CU.YD.
FILL VOLUME : 120 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 146+00 TO STA. 148+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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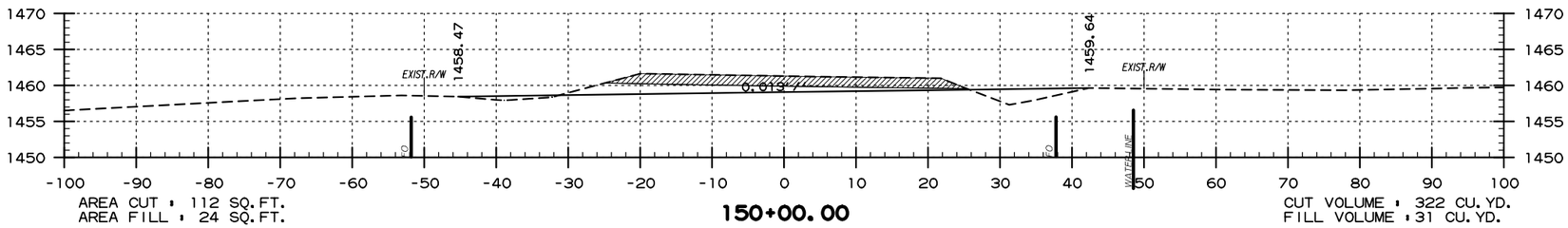
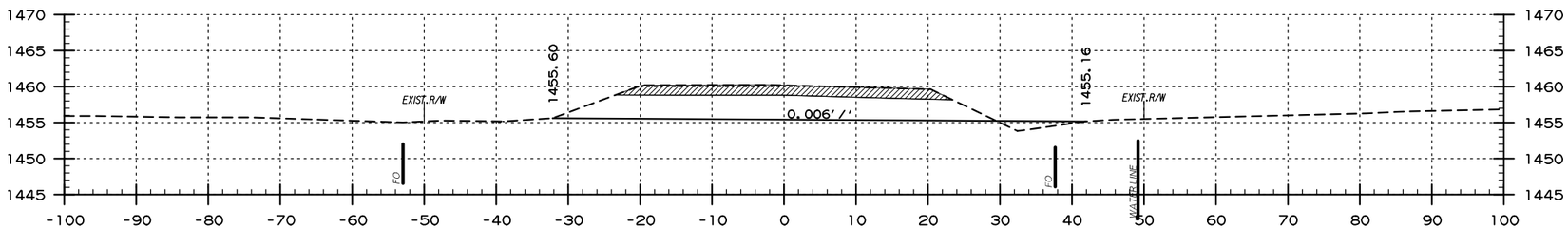


AREA CUT : 112 SQ.FT.
AREA FILL : 24 SQ.FT.

150+00.00

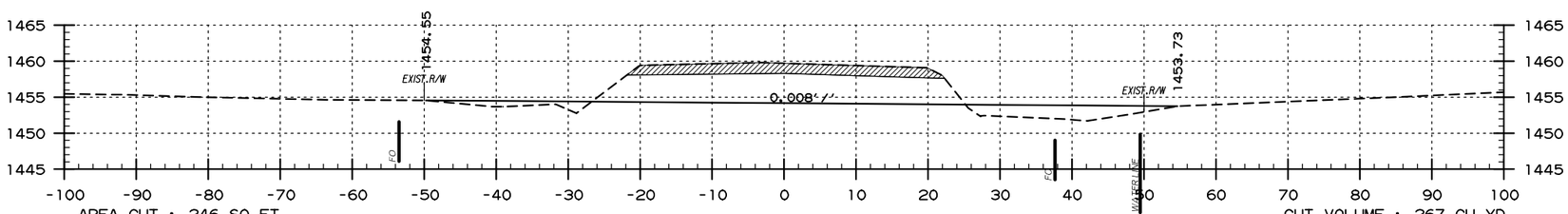
CUT VOLUME : 322 CU.YD.
FILL VOLUME : 31 CU.YD.



AREA CUT : 236 SQ.FT.
AREA FILL : 9 SQ.FT.

149+50.00

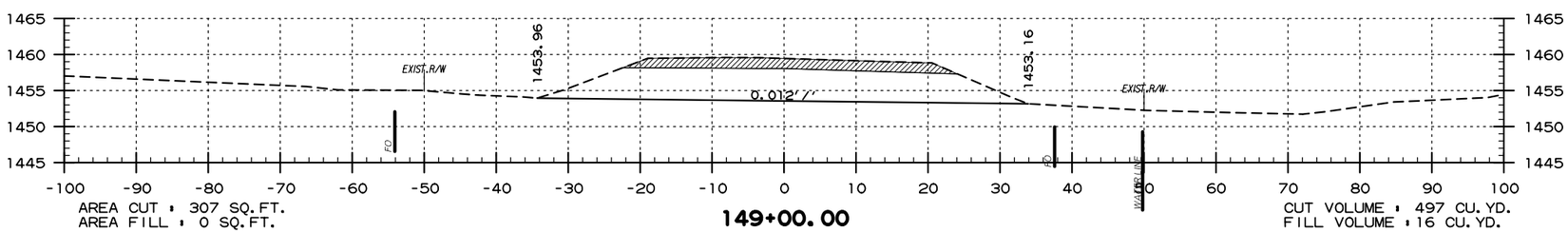
CUT VOLUME : 215 CU.YD.
FILL VOLUME : 28 CU.YD.



AREA CUT : 246 SQ.FT.
AREA FILL : 56 SQ.FT.

149+26.00

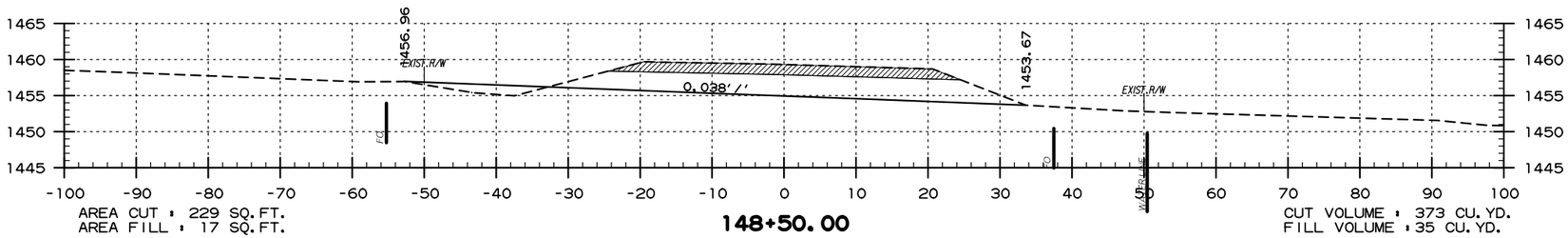
CUT VOLUME : 267 CU.YD.
FILL VOLUME : 26 CU.YD.



AREA CUT : 307 SQ.FT.
AREA FILL : 0 SQ.FT.

149+00.00

CUT VOLUME : 497 CU.YD.
FILL VOLUME : 16 CU.YD.



AREA CUT : 229 SQ.FT.
AREA FILL : 17 SQ.FT.

148+50.00

CUT VOLUME : 373 CU.YD.
FILL VOLUME : 35 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 148+50 TO STA. 150+00

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
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FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	148	151

2 CROSS SECTIONS

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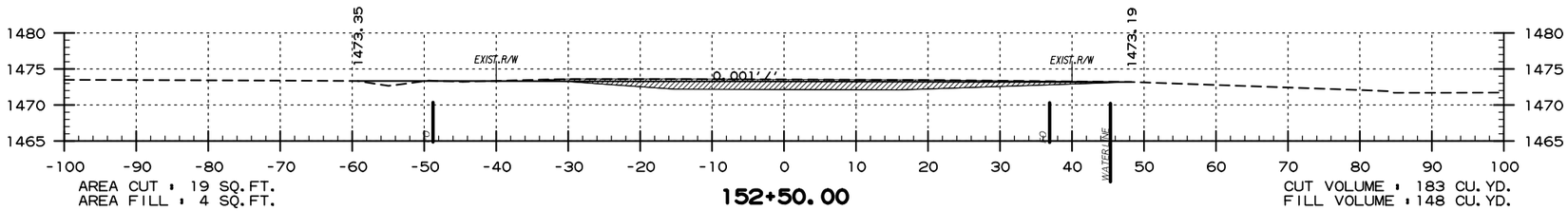
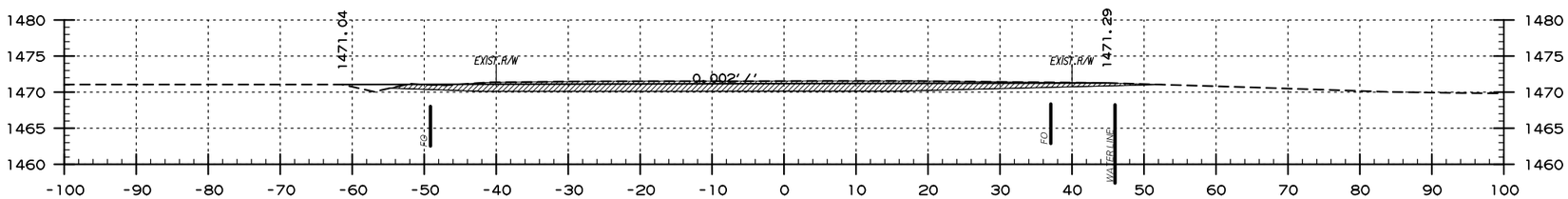


AREA CUT : 19 SQ.FT.
AREA FILL : 4 SQ.FT.

152+50.00

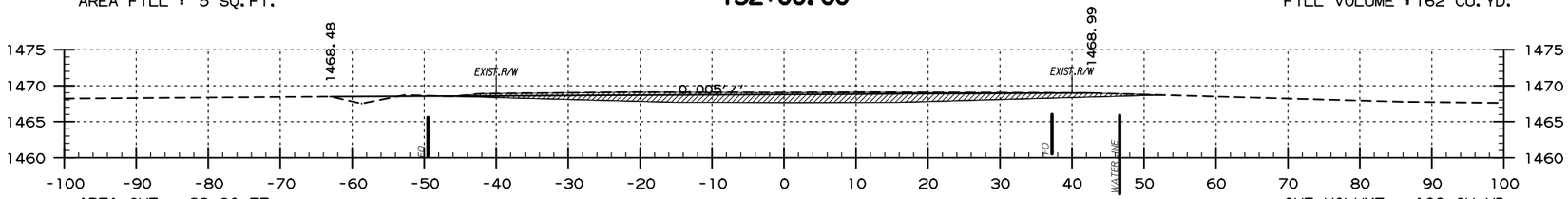
CUT VOLUME : 183 CU.YD.
FILL VOLUME : 148 CU.YD.



AREA CUT : 25 SQ.FT.
AREA FILL : 5 SQ.FT.

152+00.00

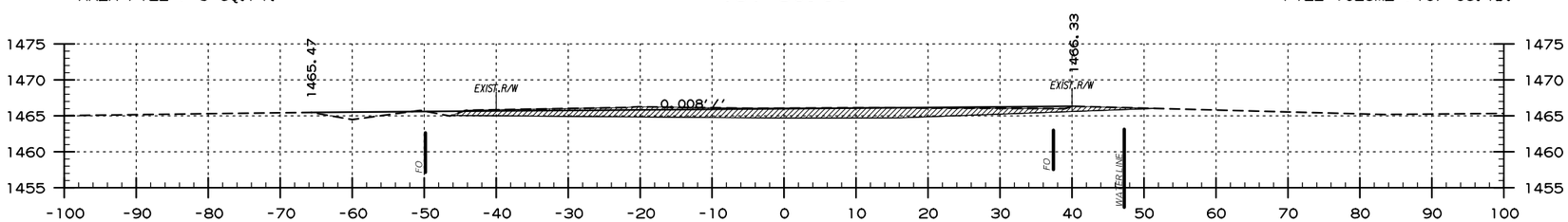
CUT VOLUME : 202 CU.YD.
FILL VOLUME : 162 CU.YD.



AREA CUT : 23 SQ.FT.
AREA FILL : 5 SQ.FT.

151+50.00

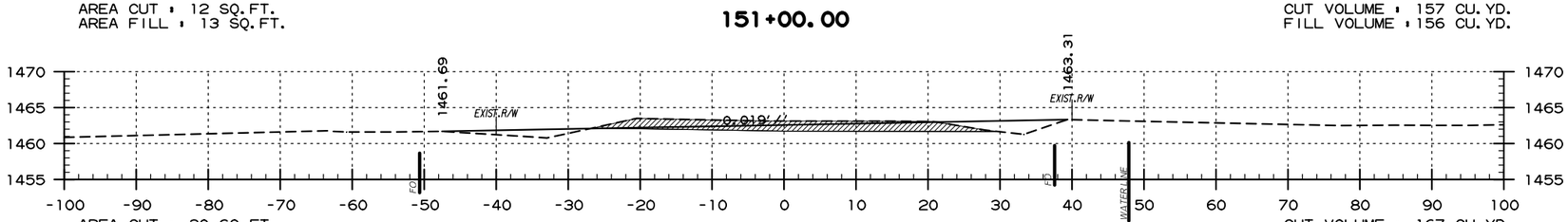
CUT VOLUME : 188 CU.YD.
FILL VOLUME : 167 CU.YD.



AREA CUT : 12 SQ.FT.
AREA FILL : 13 SQ.FT.

151+00.00

CUT VOLUME : 157 CU.YD.
FILL VOLUME : 156 CU.YD.



AREA CUT : 30 SQ.FT.
AREA FILL : 31 SQ.FT.

150+50.00

CUT VOLUME : 167 CU.YD.
FILL VOLUME : 86 CU.YD.

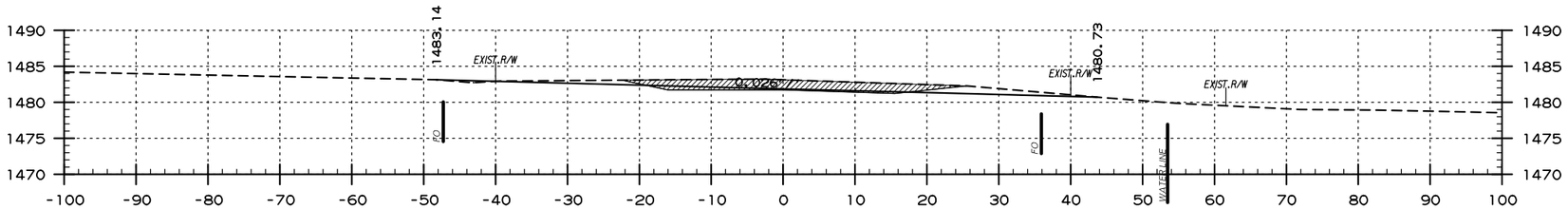
SITE 5
ABANDONED HWY. 62 ROADBED
STA. 150+50 TO STA. 152+50

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	149	151

2 CROSS SECTIONS

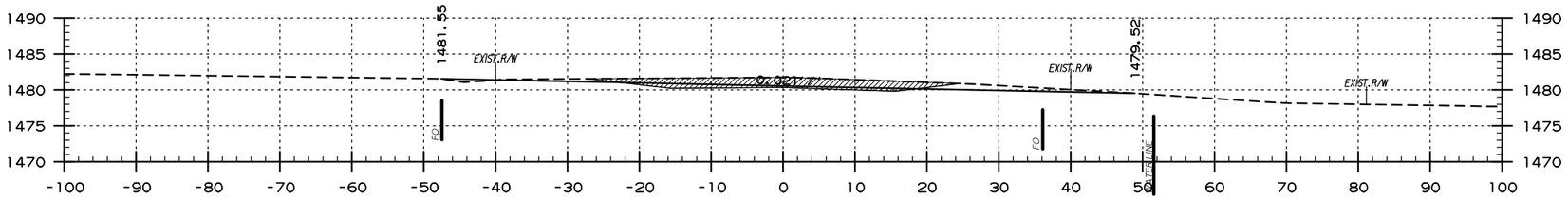
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 68 SQ.FT.
AREA FILL : 1 SQ.FT.

155+00.00

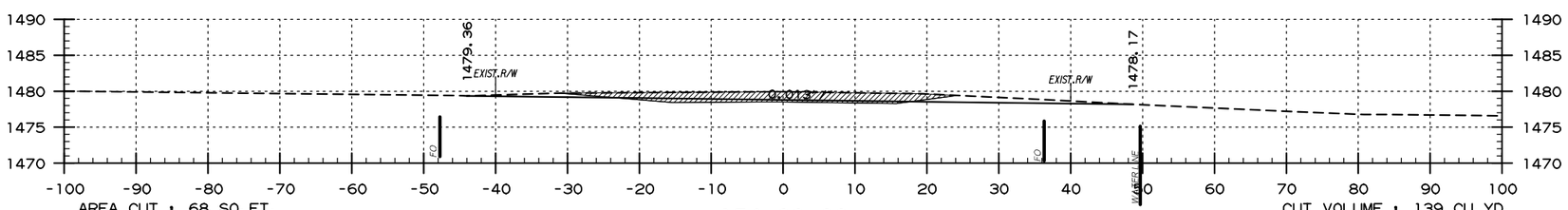
CUT VOLUME : 142 CU.YD.
FILL VOLUME : 25 CU.YD.



AREA CUT : 61 SQ.FT.
AREA FILL : 2 SQ.FT.

154+50.00

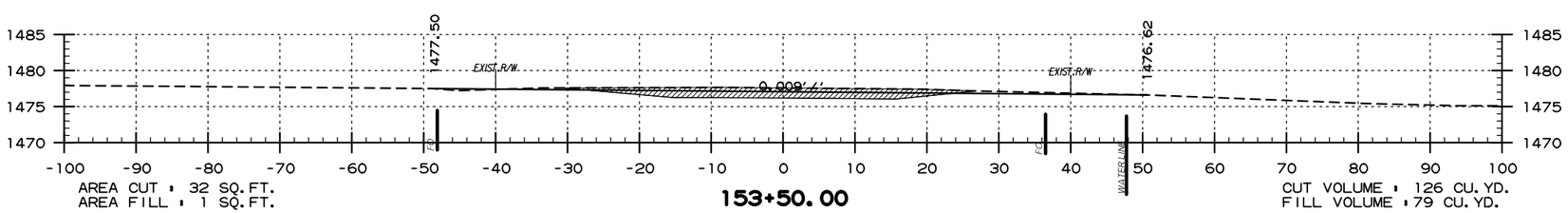
CUT VOLUME : 145 CU.YD.
FILL VOLUME : 27 CU.YD.



AREA CUT : 68 SQ.FT.
AREA FILL : 0 SQ.FT.

154+00.00

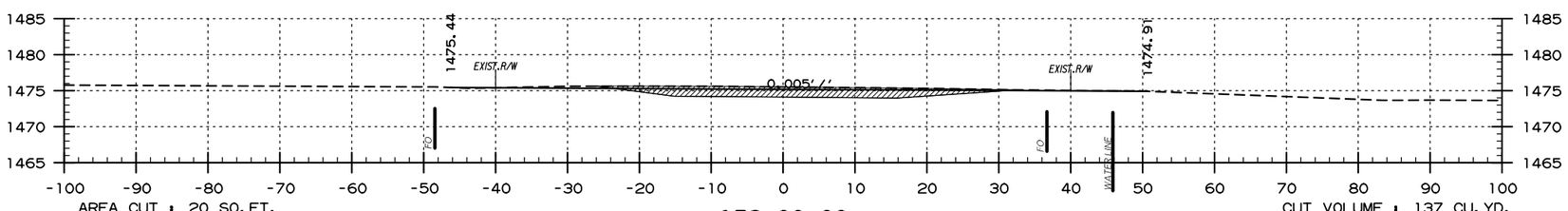
CUT VOLUME : 139 CU.YD.
FILL VOLUME : 47 CU.YD.



AREA CUT : 32 SQ.FT.
AREA FILL : 1 SQ.FT.

153+50.00

CUT VOLUME : 126 CU.YD.
FILL VOLUME : 79 CU.YD.



AREA CUT : 20 SQ.FT.
AREA FILL : 0 SQ.FT.

153+00.00

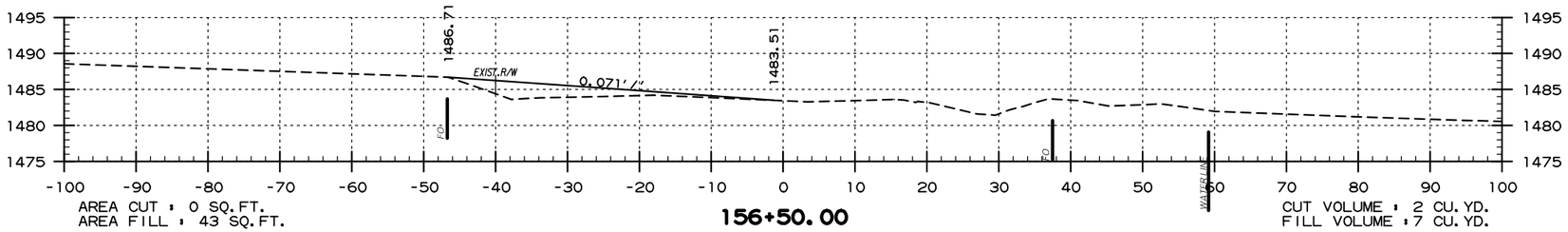
CUT VOLUME : 137 CU.YD.
FILL VOLUME : 104 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 153+00 TO STA. 155+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		090384	150	151

2 CROSS SECTIONS

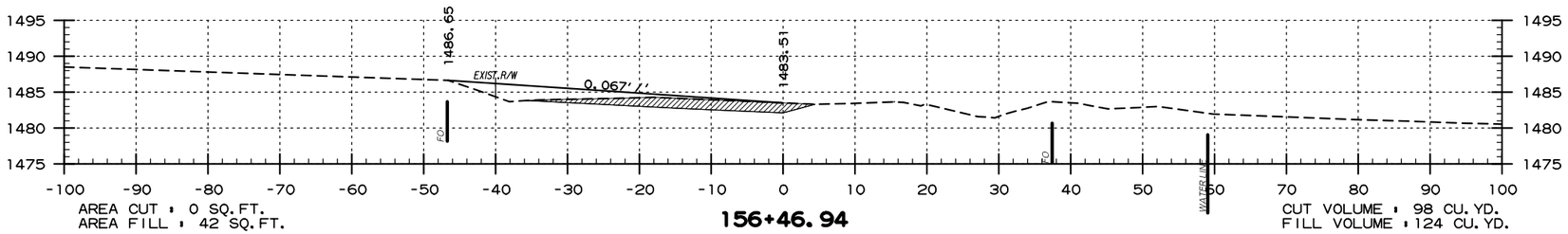
PERI 152541 DRAWING NO. 409/150019



AREA CUT : 0 SQ.FT.
AREA FILL : 43 SQ.FT.

156+50.00

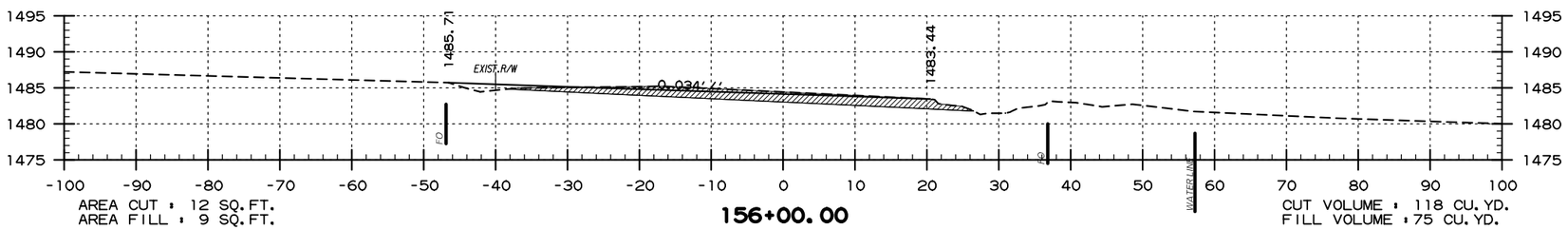
CUT VOLUME : 2 CU.YD.
FILL VOLUME : 7 CU.YD.



AREA CUT : 0 SQ.FT.
AREA FILL : 42 SQ.FT.

156+46.94

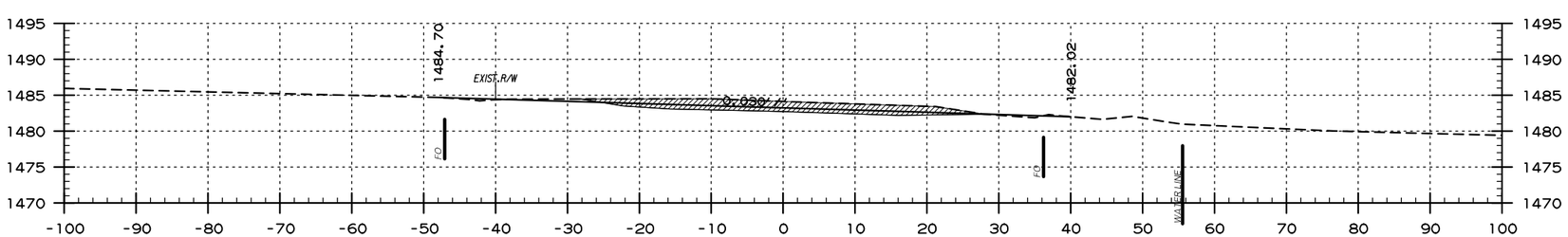
CUT VOLUME : 98 CU.YD.
FILL VOLUME : 124 CU.YD.



AREA CUT : 12 SQ.FT.
AREA FILL : 9 SQ.FT.

156+00.00

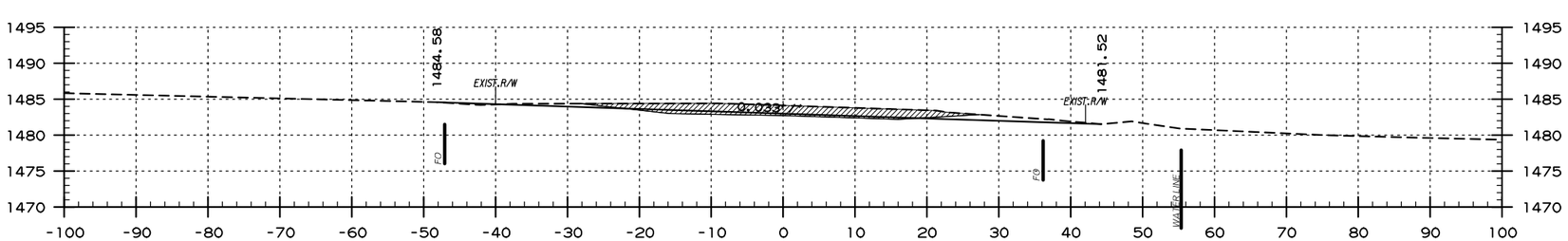
CUT VOLUME : 118 CU.YD.
FILL VOLUME : 75 CU.YD.



AREA CUT : 45 SQ.FT.
AREA FILL : 2 SQ.FT.

155+55.29

CUT VOLUME : 14 CU.YD.
FILL VOLUME : 4 CU.YD.



AREA CUT : 65 SQ.FT.
AREA FILL : 1 SQ.FT.

155+50.00

CUT VOLUME : 144 CU.YD.
FILL VOLUME : 22 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 155+50 TO STA. 156+50

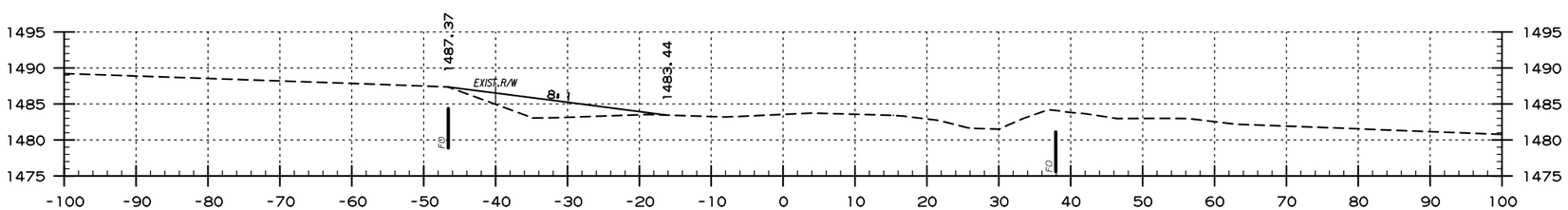
USER: f6513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
PLOTTED: 9/8/2020 09:58
SCALE: 1:20

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		090384	151	151

2 CROSS SECTIONS

PERI 152541 DRAWING NO. 409/150019



AREA CUT : 0 SQ.FT.
AREA FILL : 42 SQ.FT.

156+83.97 END SITE 5

CUT VOLUME : 0 CU.YD.
FILL VOLUME : 53 CU.YD.

SITE 5
ABANDONED HWY. 62 ROADBED
STA. 156+84 TO STA. 156+84

USER: fs513
DESIGN FILE: G:\18101900_PeaRidge\TRANSP\dgn\xsect\r090384 XS.dgn
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SCALE: 1:20

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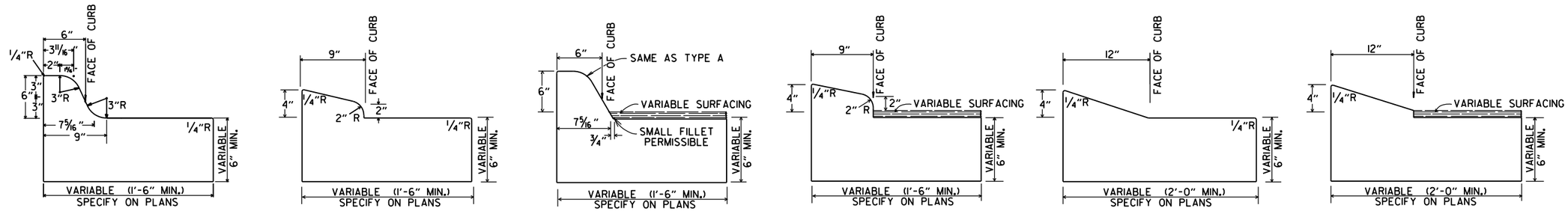
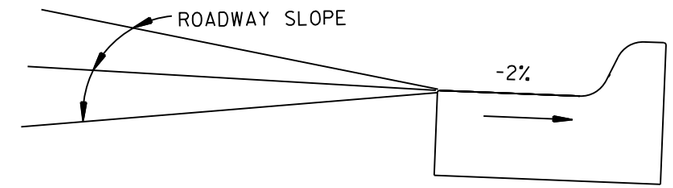
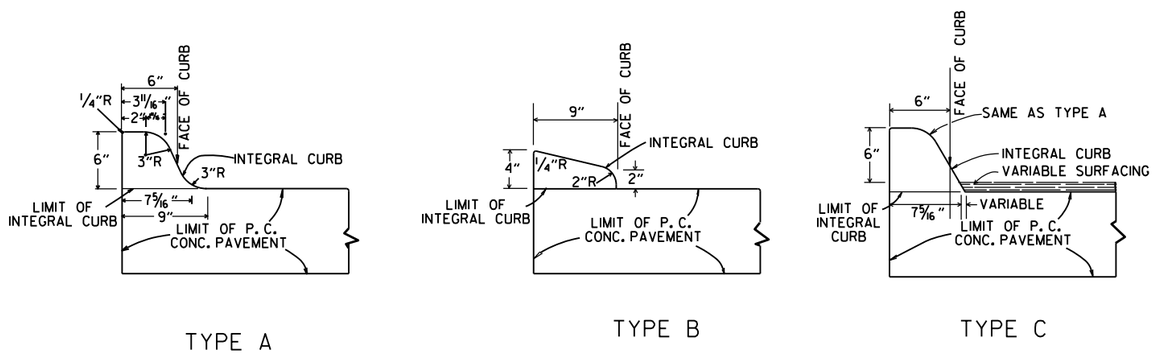


CONCRETE COMBINATION CURB AND GUTTER

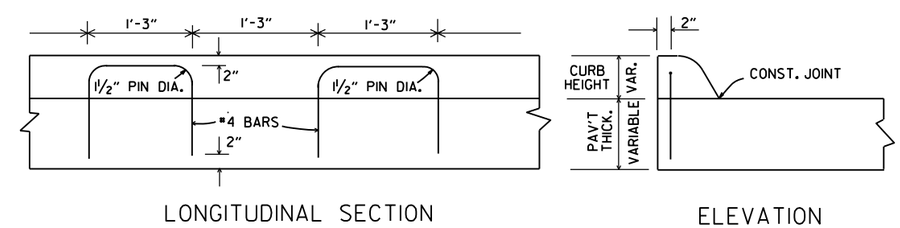


DETAIL OF GUTTER SLOPE

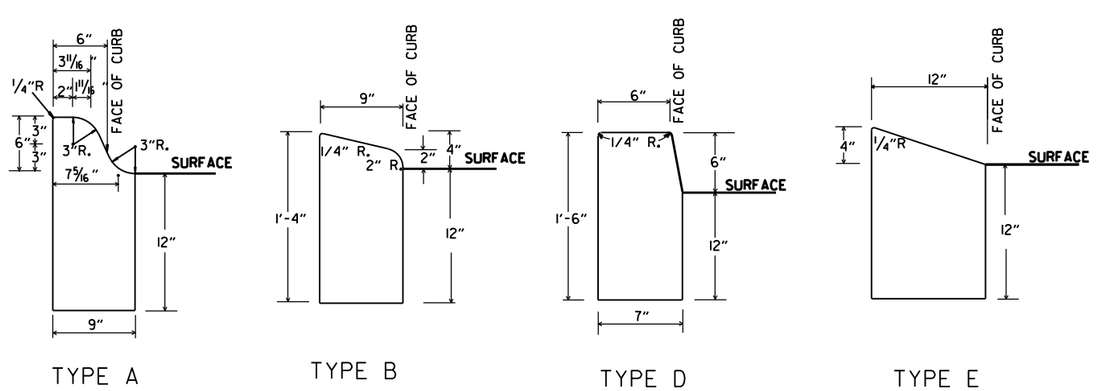
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



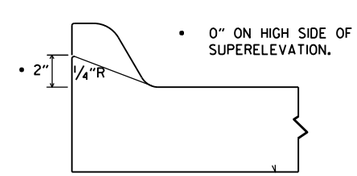
INTEGRAL CURB



ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



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

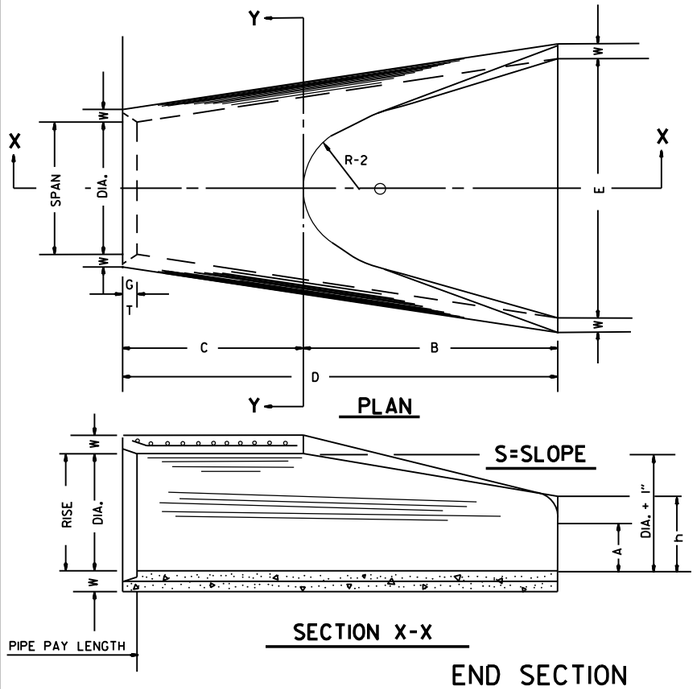


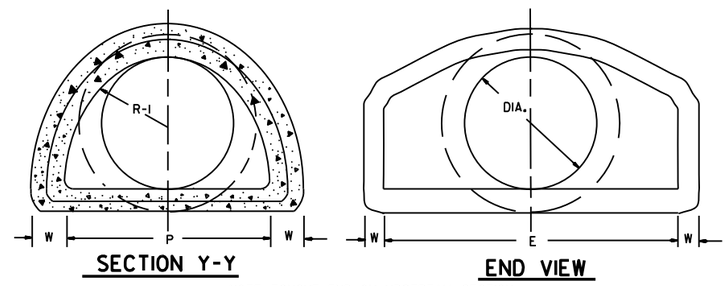
TABLE OF DIMENSIONS

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 13/16"	24 5/16"	20"	3½"	4100	1'-8"
42"	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53⅞"	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"

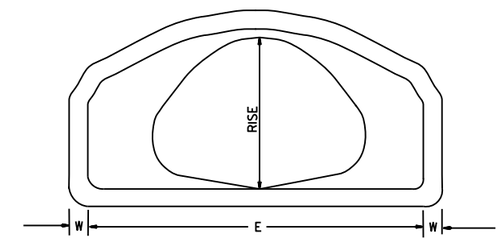
ARCH PIPE

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 11/16"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47 11/16"	20"	3"	2½:1
36	43¾	44	26⅝	27	4"	10½"	4'-0"	2'-11½"	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 1/16"	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.

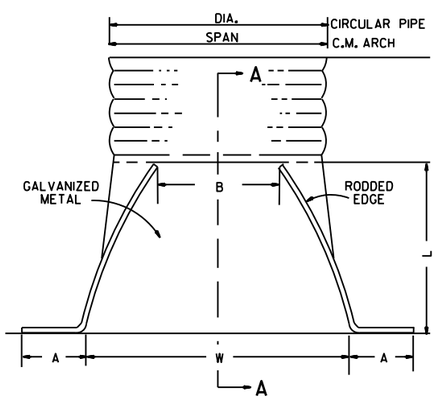


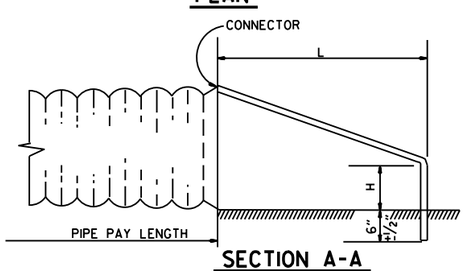
NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

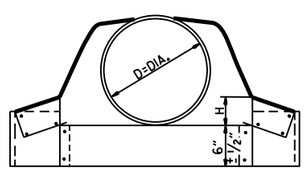


END VIEW
CONCRETE ARCH PIPE

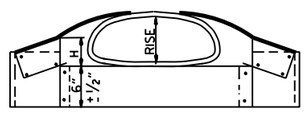
END SECTION FOR REINFORCED CONCRETE PIPE CULVERTS







CIRCULAR PIPE



C.M. ARCH PIPE

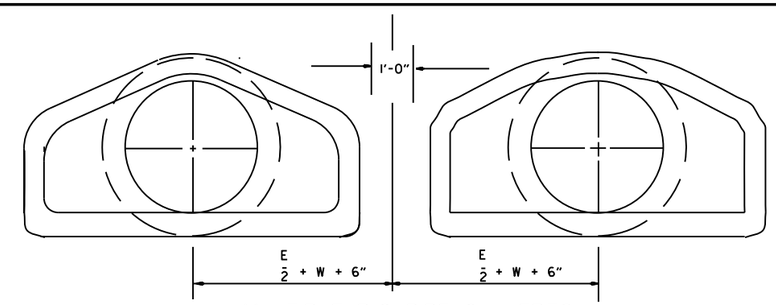
CIRCULAR PIPE

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

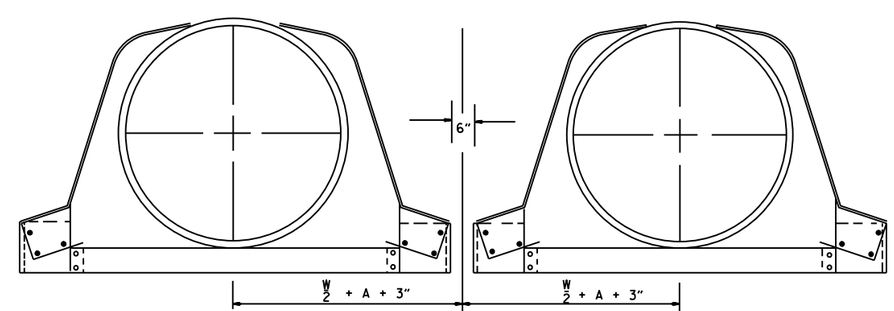
C.M. ARCH PIPE

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

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



MULTIPLE R.C. PIPE CULVERTS



MULTIPLE C.M. PIPE CULVERTS

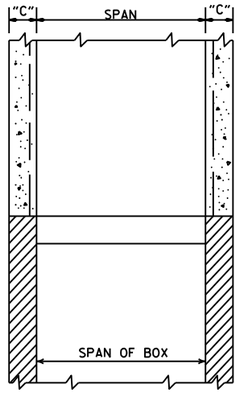
END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS

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

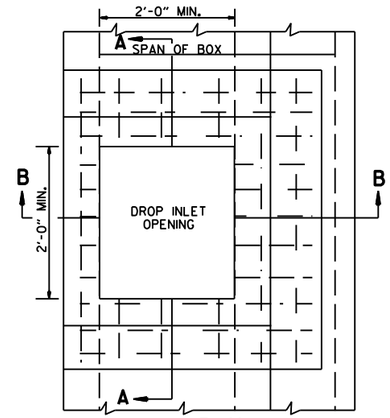
ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

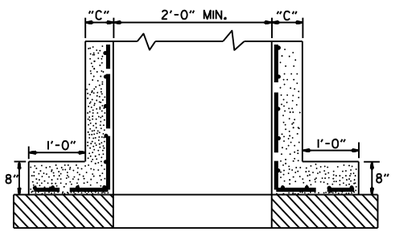
STANDARD DRAWING FES-2



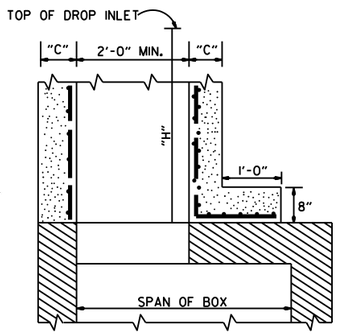
SECTION B-B



PLAN

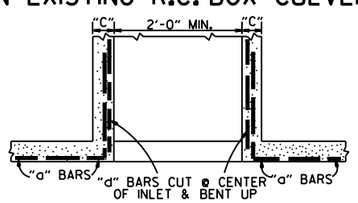


SECTION A-A

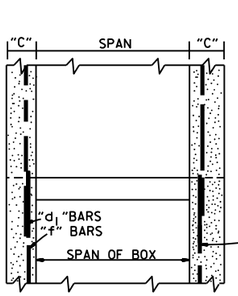


SECTION B-B

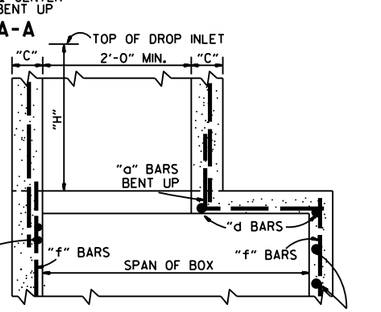
METHOD OF CONSTRUCTING DROP INLET ON EXISTING R.C. BOX CULVERT



SECTION A-A



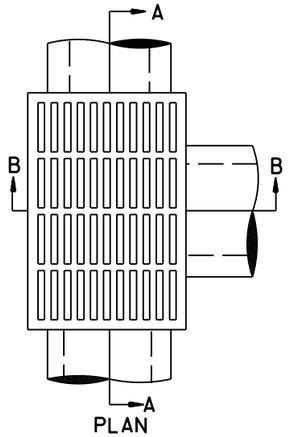
SECTION B-B



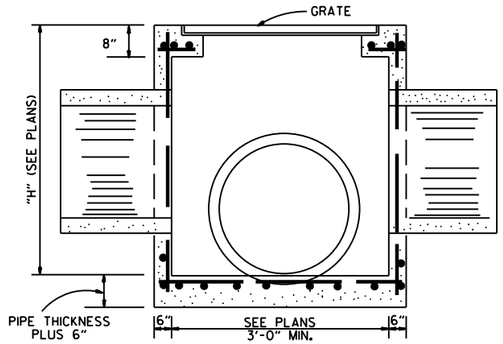
SECTION B-B

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.

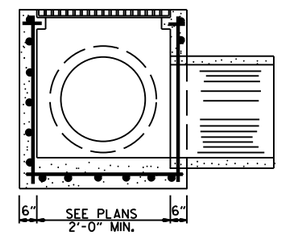


PLAN



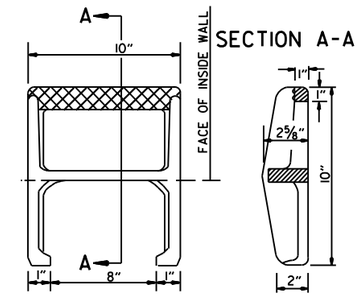
SECTION A-A

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)



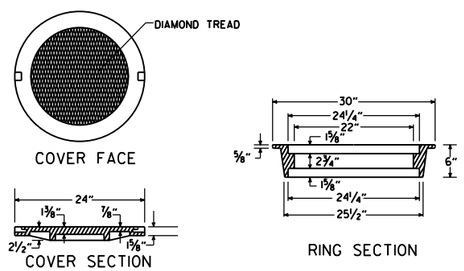
SECTION A-A

APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

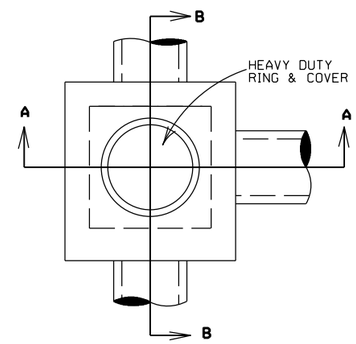
NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET

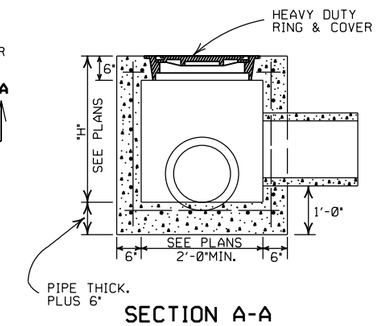


APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

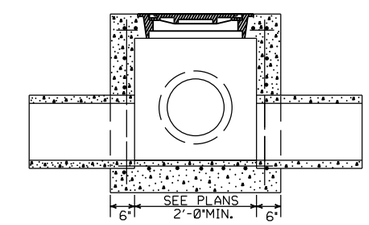


PLAN



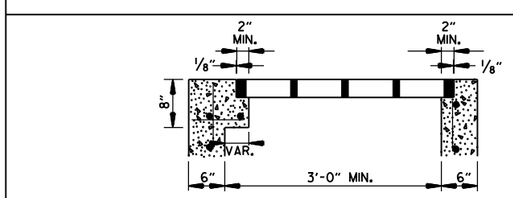
SECTION A-A

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.

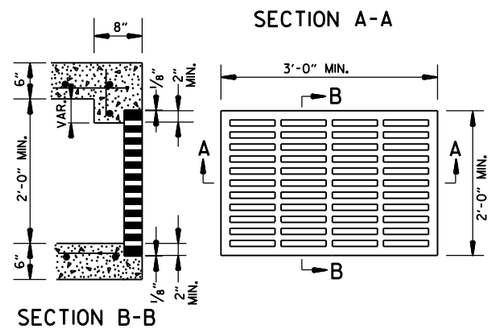


SECTION B-B

JUNCTION BOX (TYPE E)



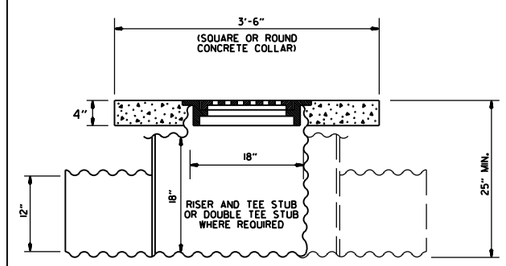
SECTION A-A



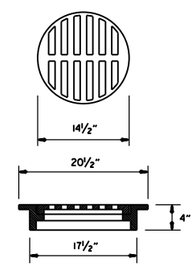
SECTION B-B

APPROXIMATE MINIMUM WATERWAY OPENING = 260 SQ. IN.

GRATE FOR TYPE E DROP INLET



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:

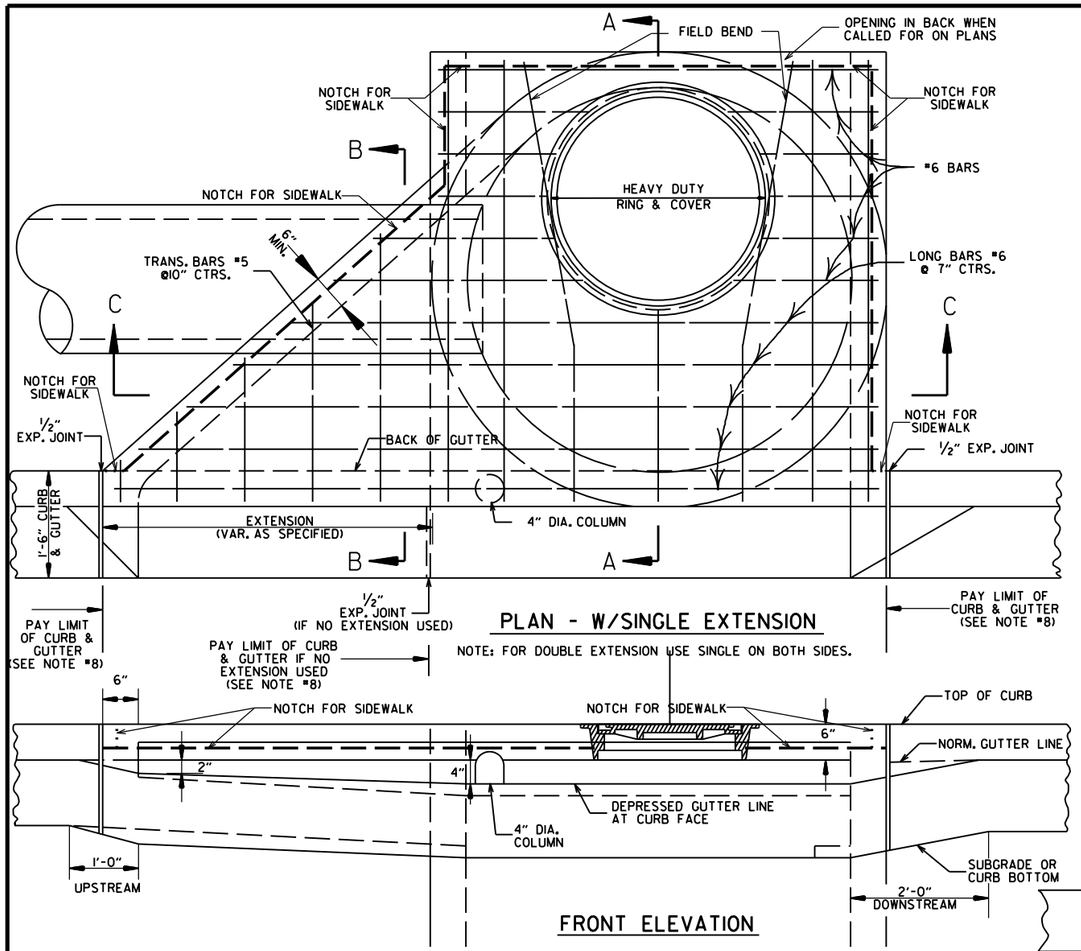
1. ALL EXPOSED CORNERS SHALL BE ¾" CHAMFERED.
2. STEPS SHALL BE INSTALLED ON 16" CENTERS ON ALL INLETS 4'-0" HIGH OR OVER, OR AS APPROVED BY THE ENGINEER.
3. EXPANSION JOINT MATERIAL SHALL BE ¾" PREFORMED FIBER.
4. GRATE OR GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS 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

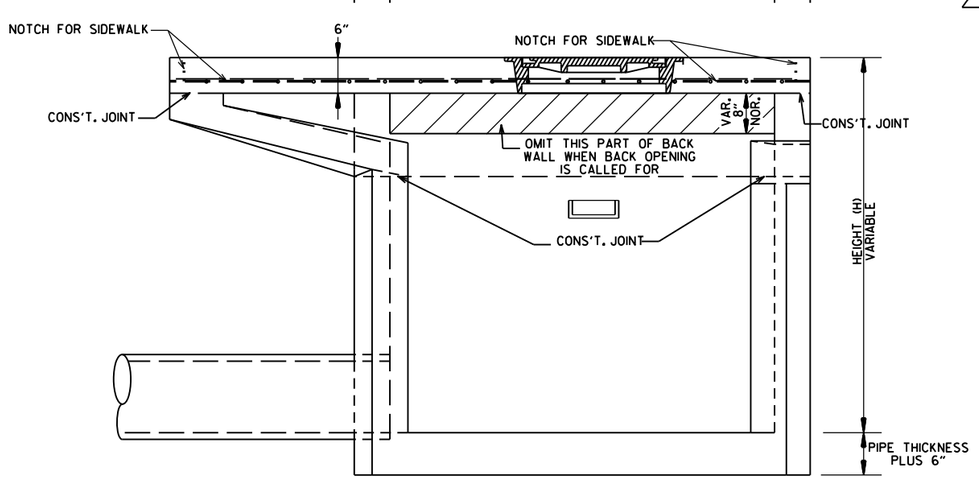
STANDARD DRAWING FPC-9



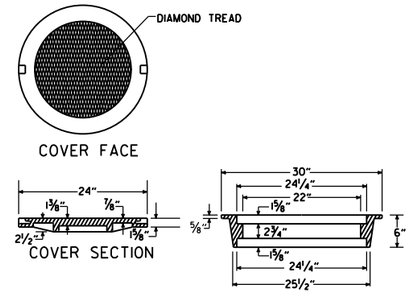
PLAN - W/SINGLE EXTENSION

NOTE: FOR DOUBLE EXTENSION USE SINGLE ON BOTH SIDES.

FRONT ELEVATION



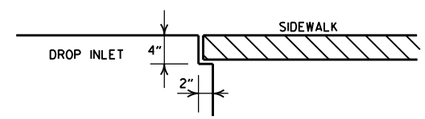
SECTION C-C



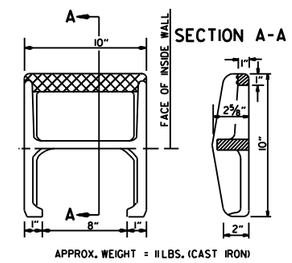
APPROXIMATE TOTAL WEIGHT = 333 LBS.

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

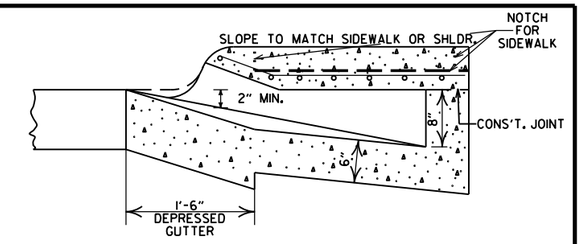


APPROX. WEIGHT = 11 LBS. (CAST IRON)

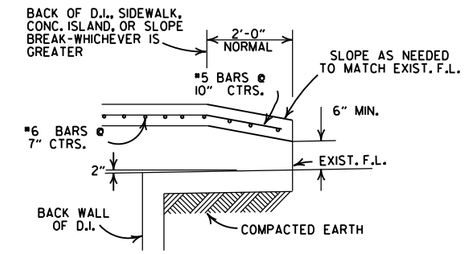
PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET



SECTION B-B

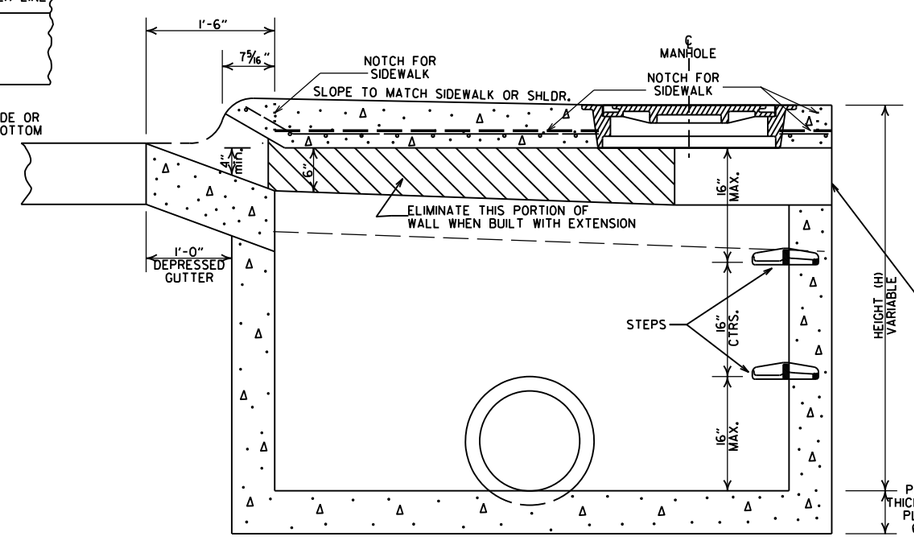


BACK OPENING

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 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.



SECTION A-A

DIA. OF D.I.	DIA. OF OUTLET PIPE	MINIMUM WALL THICKNESS CAST IN PLACE	MINIMUM WALL THICKNESS 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, REM. 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 #6 BAR SPACING	
7-20-95	CORRECTED DIAMETER OF D.I. IN BOX	
2-2-95	TYPE C TO MO (OPEN. BACK DETAIL)	
11-3-94	REVISED GENERAL NOTES	11-3-94
4-1-93	REV. BACK OPEN. DETAIL & NOTE	4-1-93
8-16-91	REVISED NOTES 1,12 & ADDED BK.OPEN DETAIL	8-15-91
11-30-89	ADDED NOTE NO. 12	11-30-89
3-23-89	ADDED NOTE & MINIMUM WALL THICKNESS	513-3-23-89
7-15-88	ADDED EXTEND NOTE TO SECTION A-A	629-7-15-88
1-14-87	MODIFIED WALL THICKNESS	783-1-14-87
6-12-87	ISSUED	4-6-12-87

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET (TYPE MO)

STANDARD DRAWING FPC-9M

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	31⅝	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87⅛	87
120	154	154	96⅞	97
132	168¾	169	106½	107

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

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

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

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

CONSTRUCTION SEQUENCE

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

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

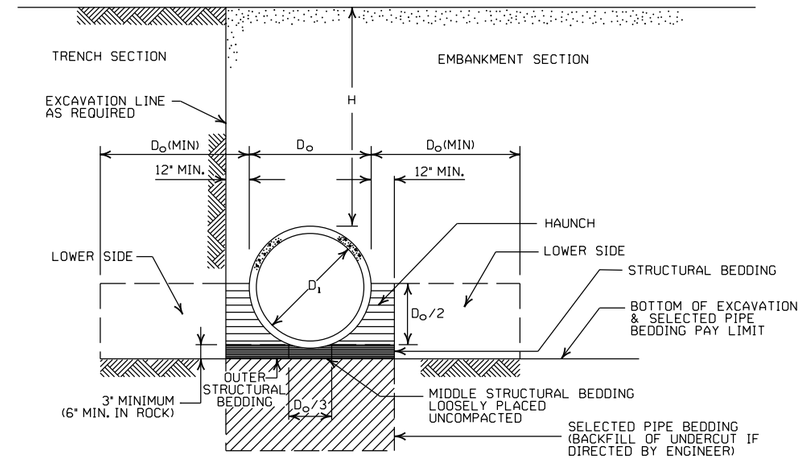
- LEGEND -

D_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.

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.

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."

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	

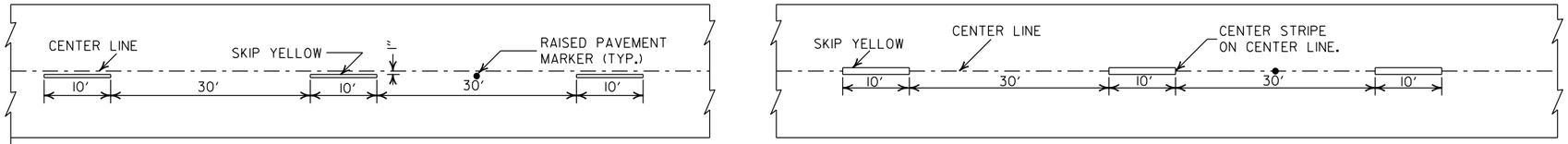
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1

NOTES:

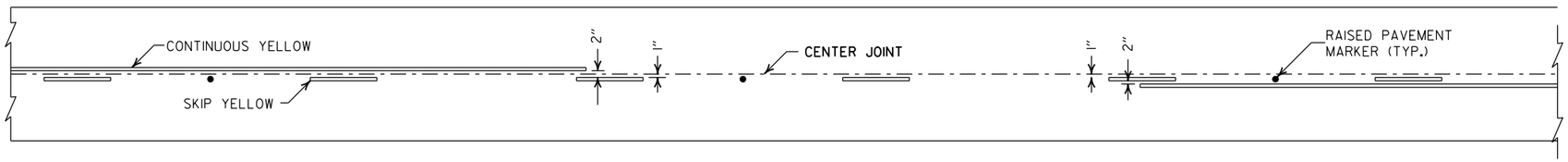
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.



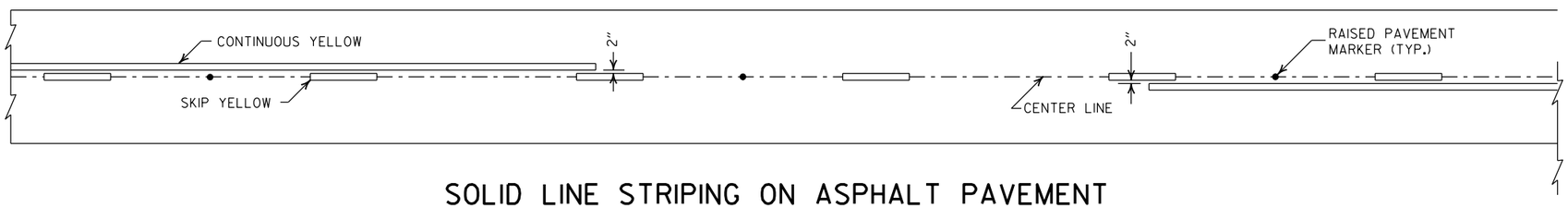
CONCRETE PAVEMENT

ASPHALT PAVEMENT

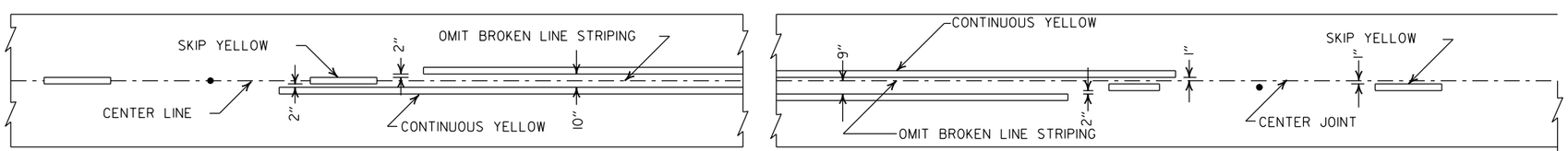
BROKEN LINE STRIPING



SOLID LINE STRIPING ON CONCRETE PAVEMENT



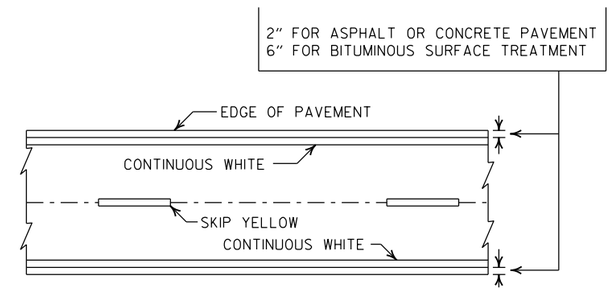
SOLID LINE STRIPING ON ASPHALT PAVEMENT



ASPHALT PAVEMENT

CONCRETE PAVEMENT

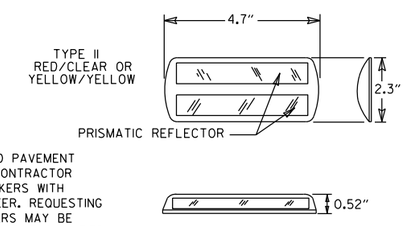
STRIPING AT ADJACENT NO PASSING LANES



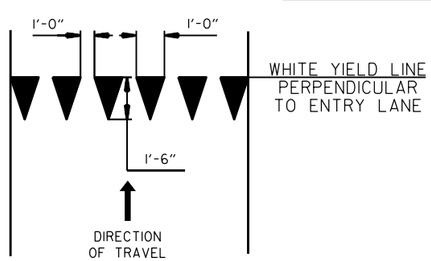
PAVEMENT EDGE LINE MARKING

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

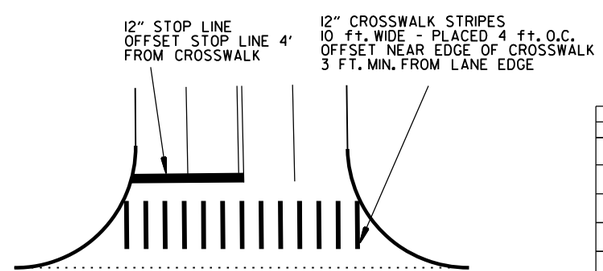
NOTE:
DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.



DETAIL OF STANDARD RAISED PAVEMENT MARKERS



YIELD LINE DETAIL



CROSSWALK AND STOP LINE DETAILS

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

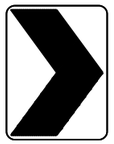
ARKANSAS STATE HIGHWAY COMMISSION

PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

R1-1
30"X30"

W1-3
30"X30"
(LT. OR RT.)



W1-8
18"X24"

W2-5
30"X30"

W3-1
36"X36"

W5-1
36"X36"

M6-3
21"X15"

R1-2
36"X36"X36"

W1-4
30"X30"
(LT. or RT.)

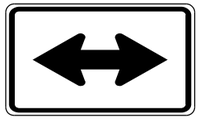
W2-1
30"X30"

S1-1
36"X36"

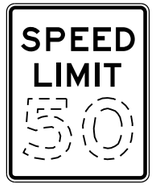
W3-2
36"X36"

County
Route Marker
M1-6
24"X24"

NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.



M6-4
21"X15"



R2-1
24"X30"

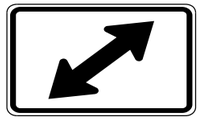
W1-5
30"X30"
(LT. or RT.)

W2-2
30"X30"

W5-2
36"X36"

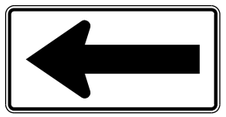
W8-3
36"X36"

R1-3P
18"X6"



M6-5
21"X15"

W1-1
30"X30"
(LT. or RT.)

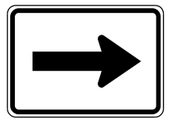


W1-6
48"X24"

W2-3
30"X30"
(LT. or RT.)

W5-3
36"X36"

W13-1P
18"X18"

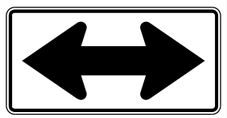


M6-1
21"X15"

NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.

M6-6
21"X15"

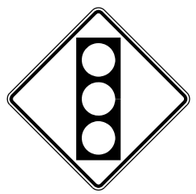
W1-2
30"X30"
(LT. or RT.)



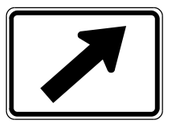
W1-7
48"X24"

W2-4
30"X30"

W10-1
36" DIAMETER



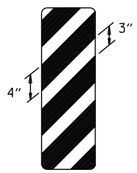
W3-3
36"X36"



M6-2
21"X15"

S4-3P
24"X8"

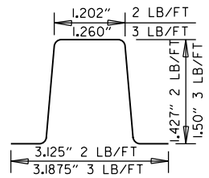
S4-2P
24"X10"



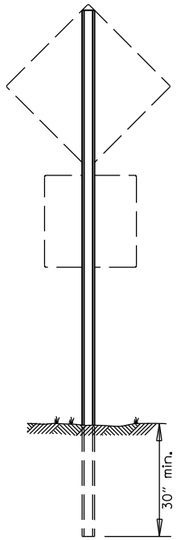
OM-3
12"X36"
(LT. or RT.)

MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION

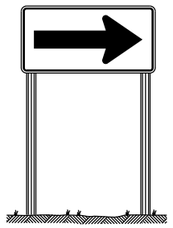


(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES

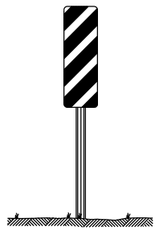


TYPE A

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



TYPE B



TYPE C

MINIMUM WEIGHT

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

STANDARD HIGHWAY SIGNS

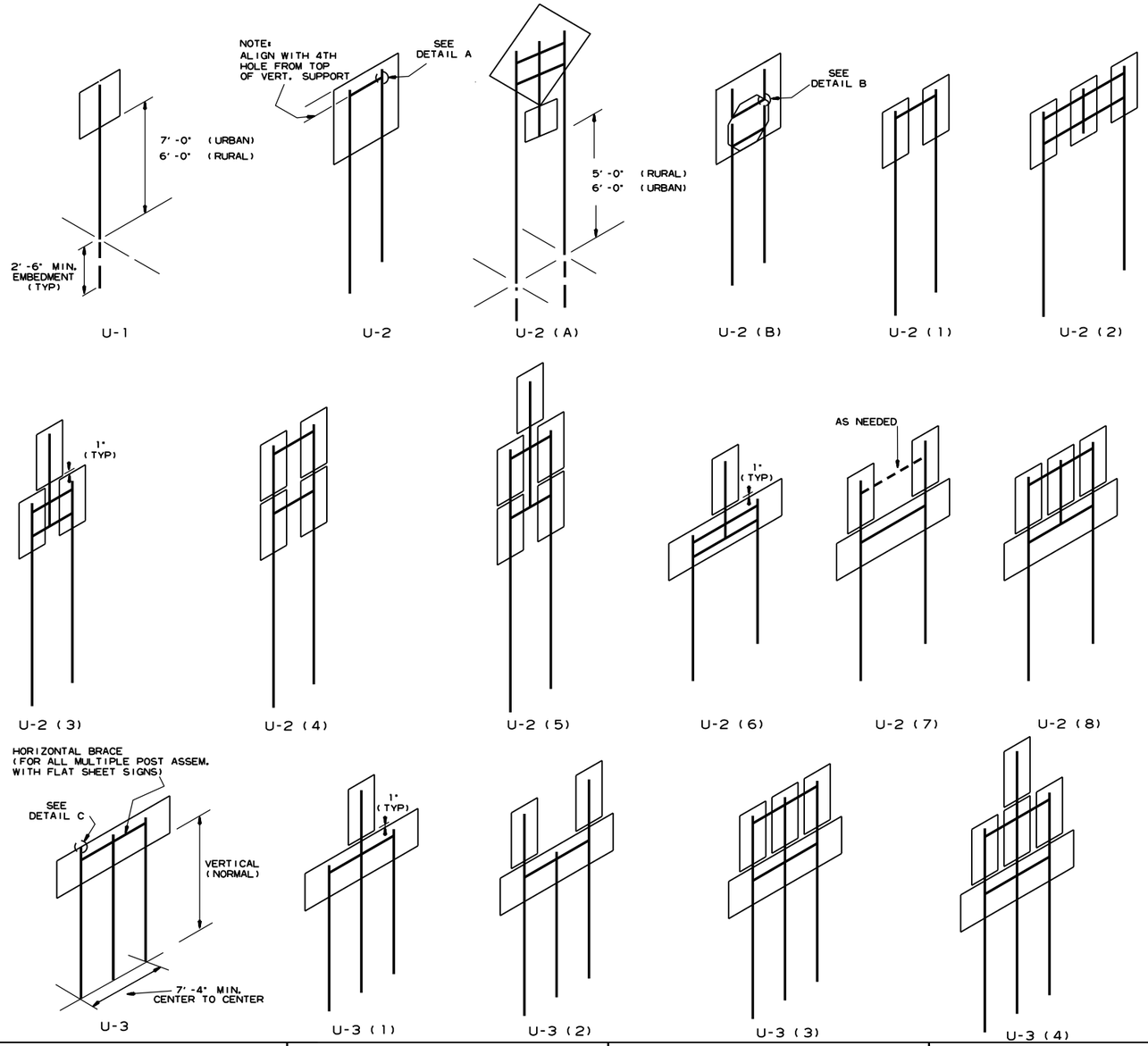
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED R1-3 TO R1-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED W1-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED W14-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2#-3#; ADDED S4-2 & S4-3	504-5-3-76
8-12-74	REV. HT. TYPE "C" ASSEMBLY	500-8-21-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72

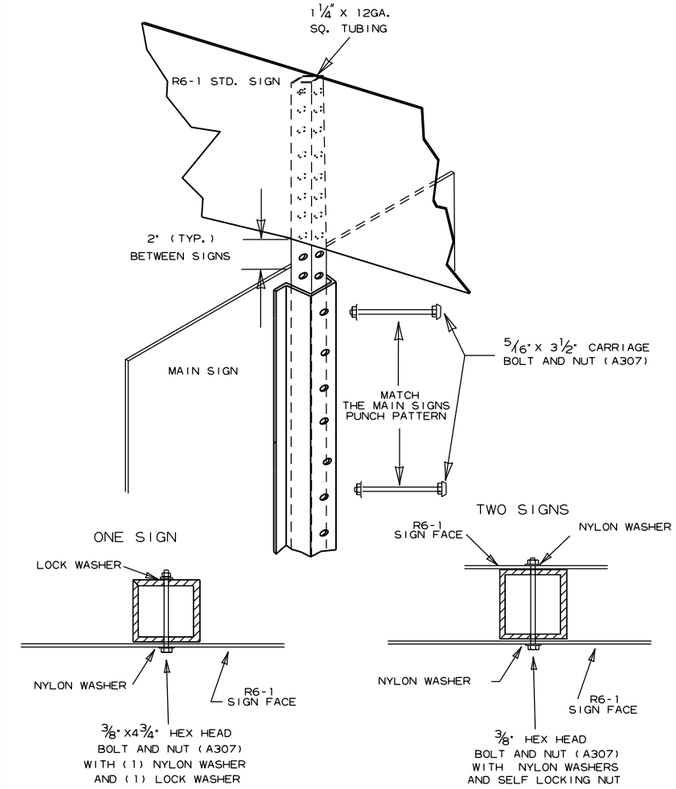
SUPPORT ASSEMBLIES

ARKANSAS STATE HIGHWAY COMMISSION

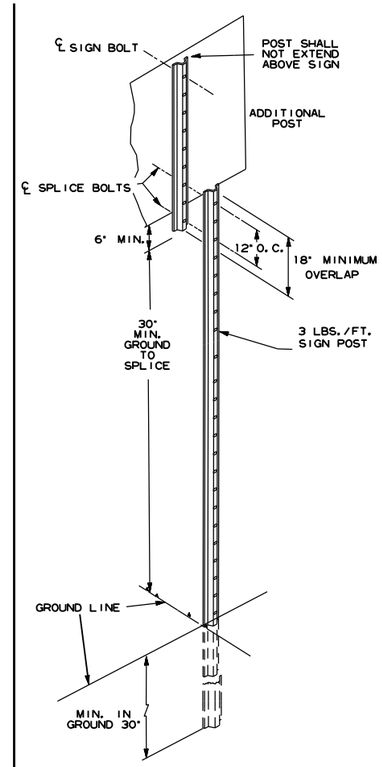
STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES

STANDARD DRAWING SHS-1





DETAIL E
R6-1 EXTENSION FOR U-CHANNEL POST



DETAIL F
DETAIL OF SPLICES

NOTES:

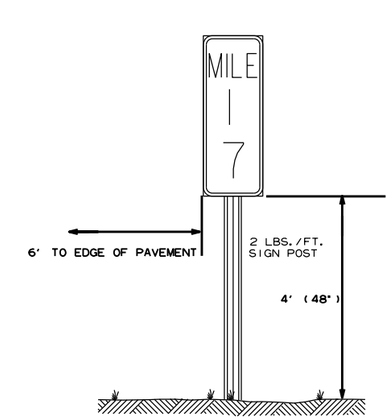
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

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

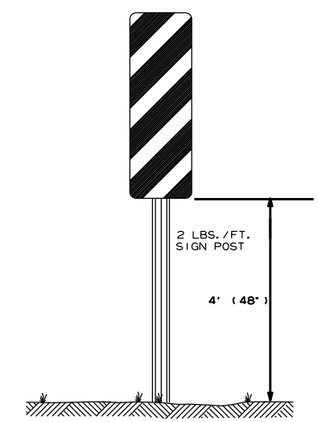
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

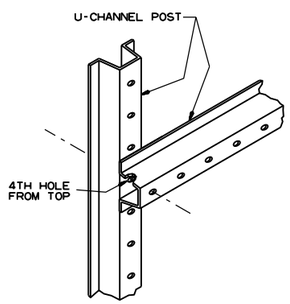
THE POST FOR "TYPE U" SUPPORTS SHALL BE HOT DIP GALVANIZED.



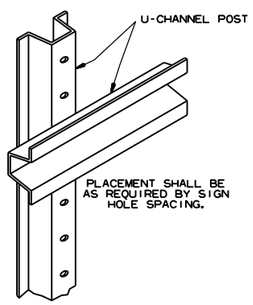
TYPICAL MILE MARKER INSTALLATION



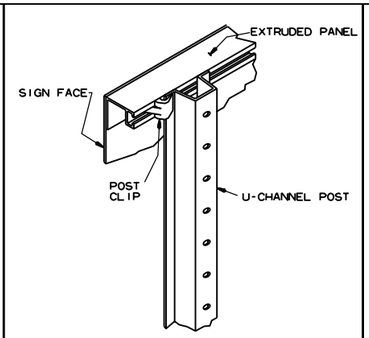
TYPICAL OM-3 INSTALLATION AT EDGE OF OBSTRUCTION



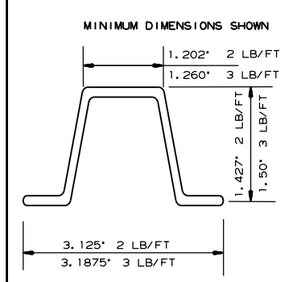
DETAIL A
SHOWING HORIZONTAL BRACE



DETAIL B
SHOWING BACK-TO-BACK INSTALLATION



DETAIL C
SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



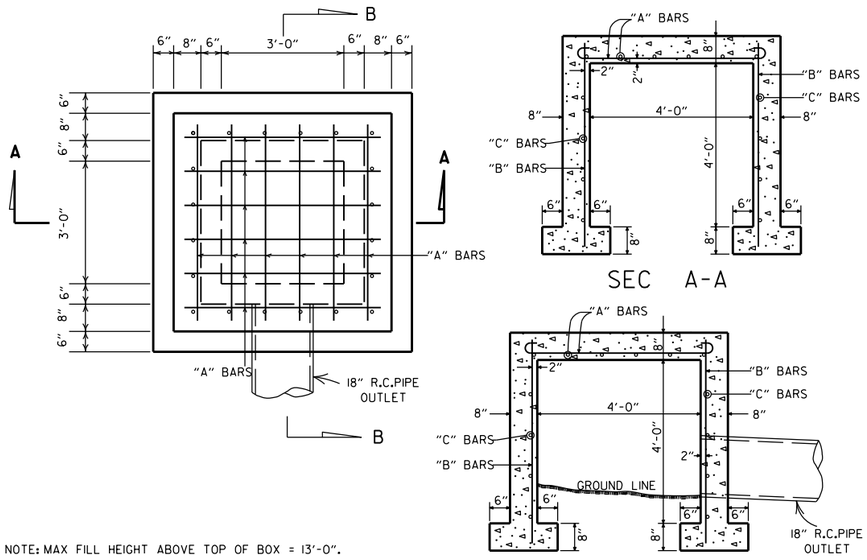
DETAIL C
U-CHANNEL POST

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

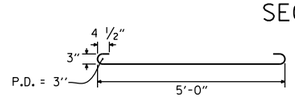
ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

STANDARD DRAWING SHS-2



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



STEEL SCHEDULE

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

ALL STEEL TO BE #4 BARS

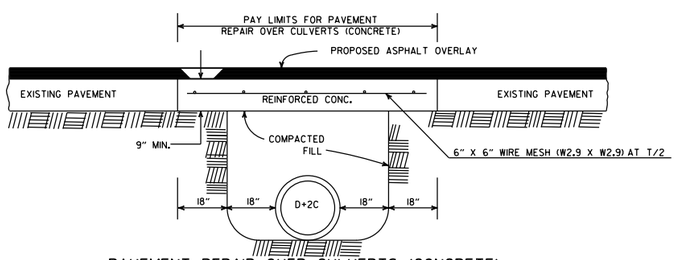
QUANTITIES

CONCRETE 3.31 CU. YDS.
REINFORCING STEEL 168 LB.

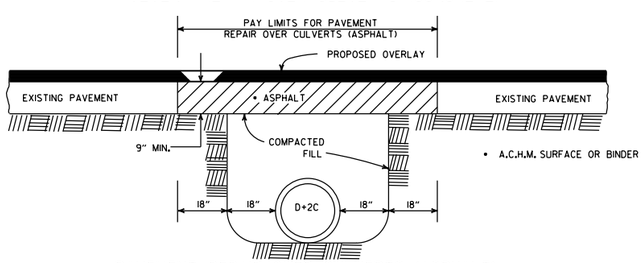
GENERAL NOTE:

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



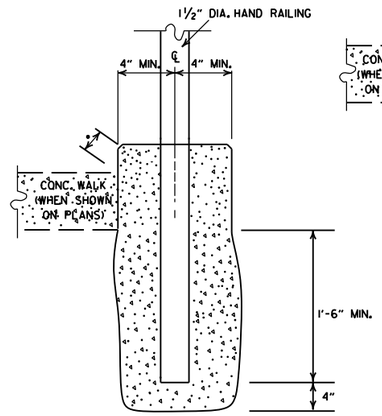
PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



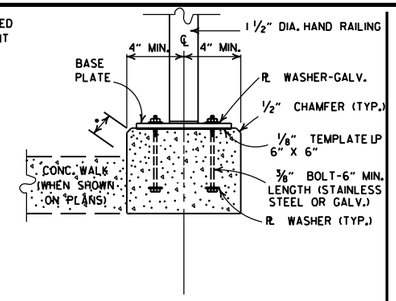
PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

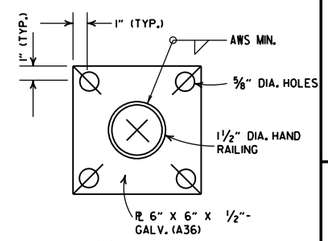
* A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

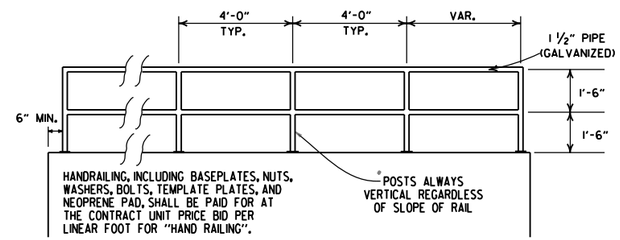


POST CONNECTION TO WALL

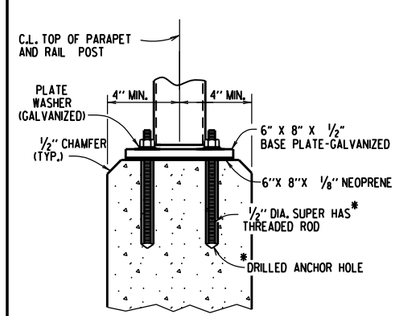


BASE PLATE

POST CONNECTION DETAILS



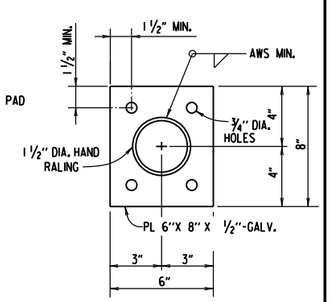
HAND RAILING SHALL CONFORM TO SECTION 633.



*HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 1/2" EMBEDMENT OR APPROVED EQUAL.

THE ADHESIVE ANCHOR SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

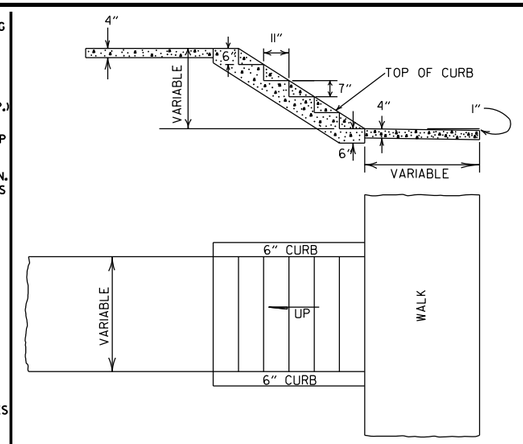
POST CONNECTION TO WALL



BASE PLATE

DETAILS OF ALTERNATE POST ANCHOR SYSTEM
(EPOXY ADHESIVE ANCHORS)

HAND RAILING DETAILS



GENERAL NOTES

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

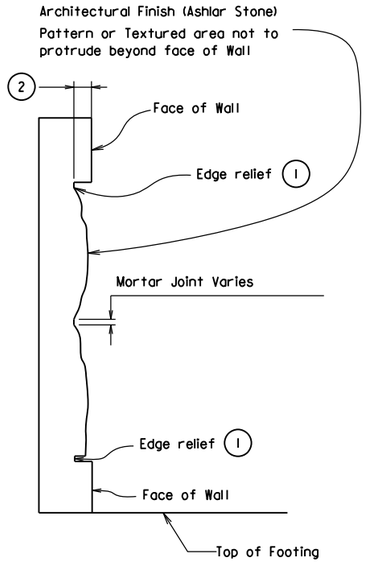
DETAILS OF CONCRETE STEPS & WALKS

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

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF SPECIAL ITEMS

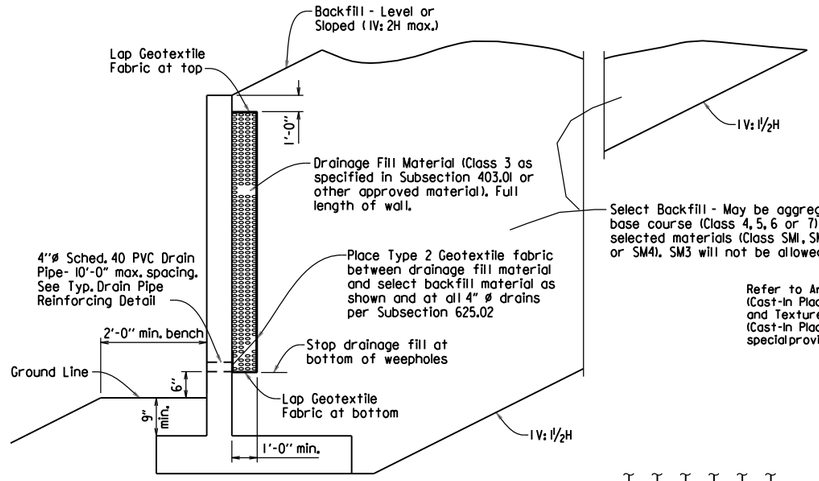
STANDARD DRAWING SI - 1



ARCHITECTURAL FINISH DETAILS

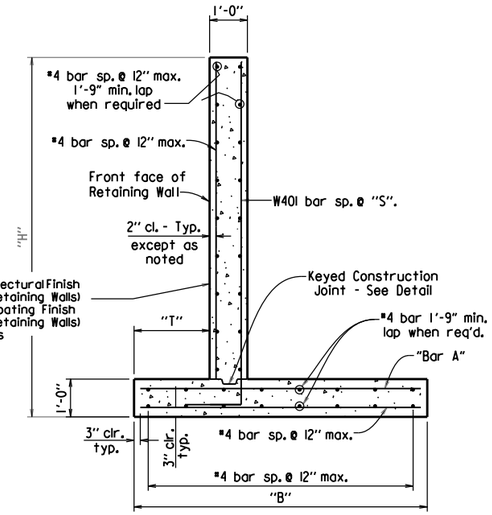
N.T.S.

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



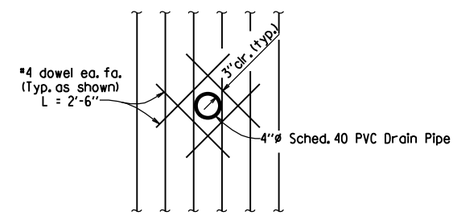
TYPICAL DRAINAGE & BACKFILL DETAILS

N.T.S



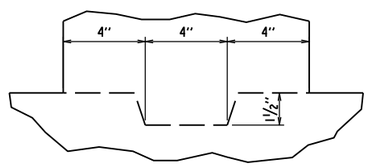
TYPICAL SECTION

N.T.S



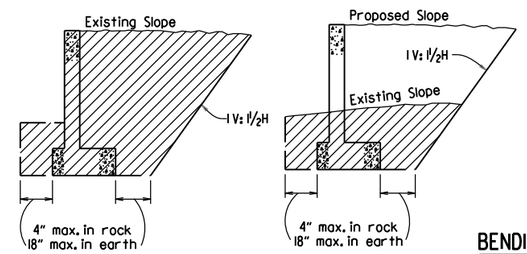
TYPICAL DRAIN PIPE REINFORCING DETAIL

N.T.S



KEYED CONSTRUCTION JOINT DETAIL

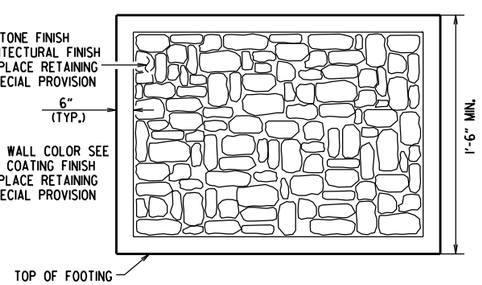
N.T.S



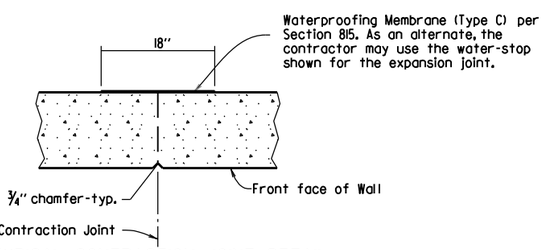
NOTE: Hatched area denotes maximum limits of pay excavation.

DETAILS OF EXCAVATION

N.T.S



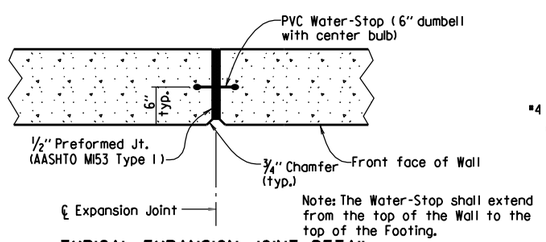
ASHLAR STONE FINISH DETAIL



TYPICAL CONTRACTION JOINT DETAIL

N.T.S.

Note: 20'-0" Max. Spacing between Contraction Joints. Horizontal reinforcement shall be continuous through Contraction joints.

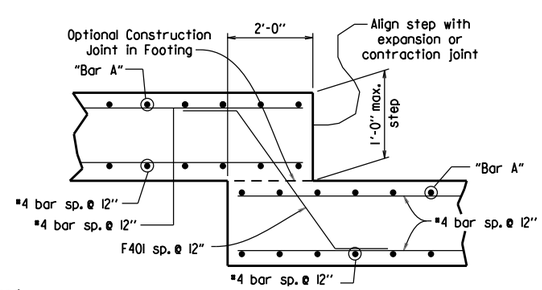


Note: The Water-Stop shall extend from the top of the Wall to the top of the Footing.

TYPICAL EXPANSION JOINT DETAIL

N.T.S.

Note: 60'-0" Max. Spacing between Expansion Joints. Horizontal reinforcing shall stop 2" from ℄ Expansion Joint.



FOOTING STEP DETAIL

N.T.S.

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).

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, weep holes & geotextile fabric shall not be paid for directly, but shall be considered subsidiary to Class S Concrete.

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

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

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

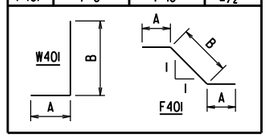
"H"	"T"	"B"	"S"	"Bar A" Size @ Spacing
3'-0"	9"	2'-6"	12"	#4 @ 12"
4'-0"	9"	3'-6"	12"	#4 @ 12"
5'-0"	9"	4'-6"	12"	#4 @ 12"
6'-0"	9"	5'-6"	12"	#4 @ 6"
7'-0"	9"	6'-6"	12"	#5 @ 6½"
8'-0"	1'-6"	8'-0"	7½"	#6 @ 6"
9'-0"	1'-11"	9'-6"	5"	#8 @ 6"

TABLE OF RETAINING WALL VARIABLES (LEVEL BACKFILL)

"H"	"T"	"B"	"S"	"Bar A" Size @ Spacing
3'-0"	9"	2'-6"	12"	#4 @ 12"
4'-0"	9"	3'-6"	12"	#4 @ 12"
5'-0"	9"	4'-0"	12"	#4 @ 12"
6'-0"	9"	4'-6"	12"	#4 @ 12"
7'-0"	9"	5'-6"	12"	#4 @ 10"
8'-0"	9"	6'-0"	12"	#5 @ 10"
9'-0"	1'-0"	7'-0"	12"	#5 @ 6½"

BENDING DIAGRAMS

MARK	A	B	P.D.
W401	8"	"H" - 6"	3"
F401	1'-6"	1'-10"	2½"



Dimensions are out to out of bars.

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

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

ARKANSAS STATE HIGHWAY COMMISSION

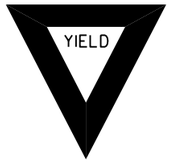
REINFORCED CONCRETE RETAINING WALL (WITHOUT LIVE LOAD SURCHARGE)

STANDARD DRAWING SI - 2

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"

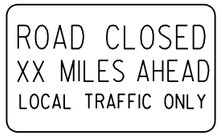
R5-1

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"

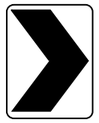
W1-4

STD. 48"X48"

W1-6

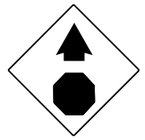
STD. 48"X24"
SPECIAL 60"X30"

W1-8



STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

W3-1

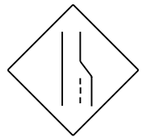


STD. 36"X36"
SPECIAL 48"X48"

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"

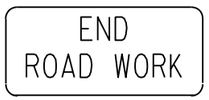
W8-9

STD. 36"X36"
FWY. 48"X48"

G20-1

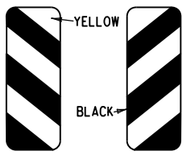
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

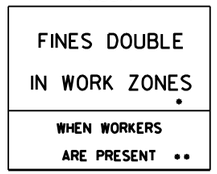
M4-9

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.

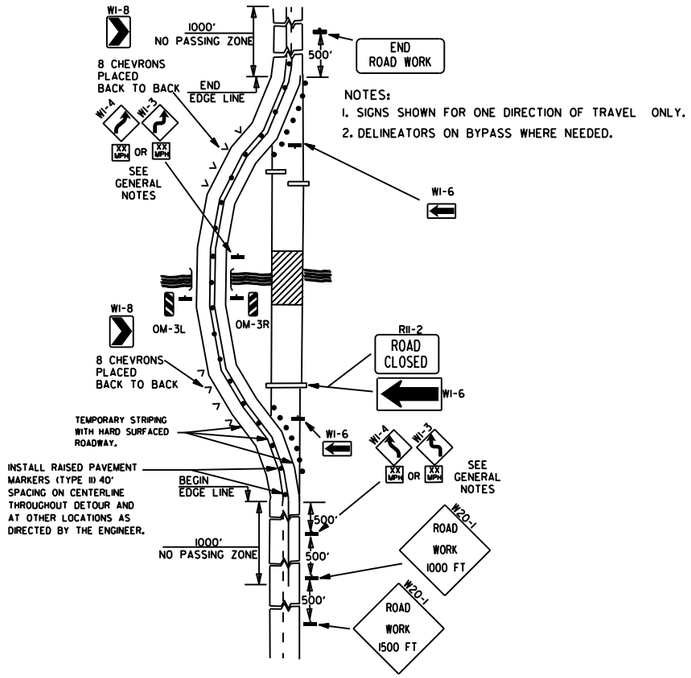
• NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED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

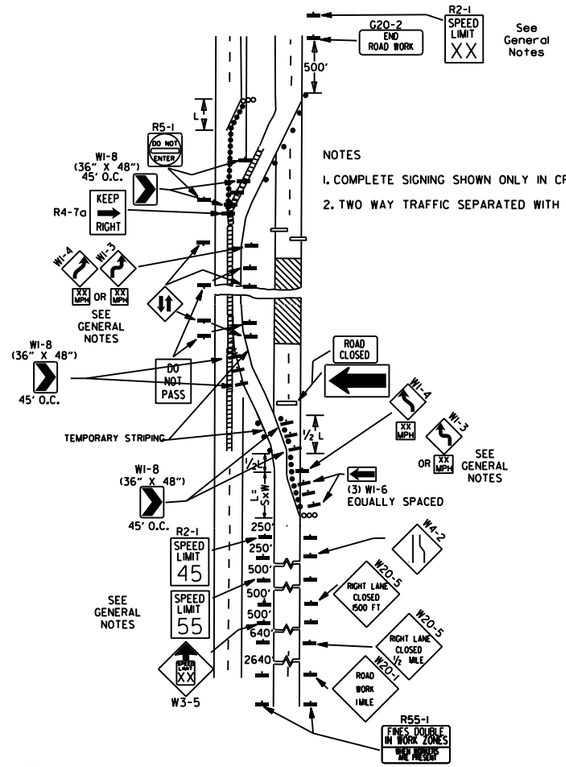
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



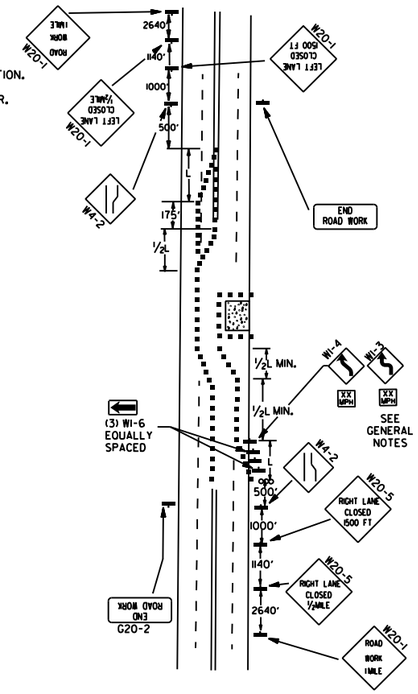
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

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

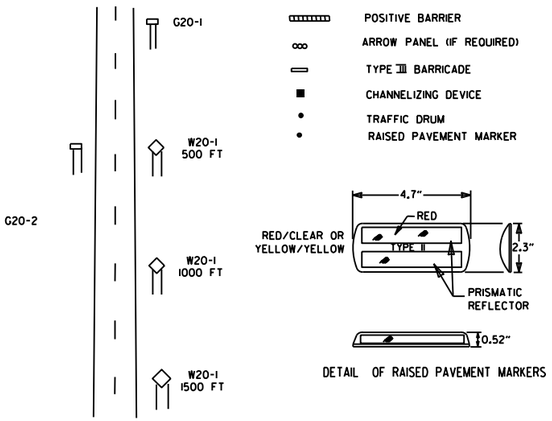


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(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.



TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE.

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

WHERE:

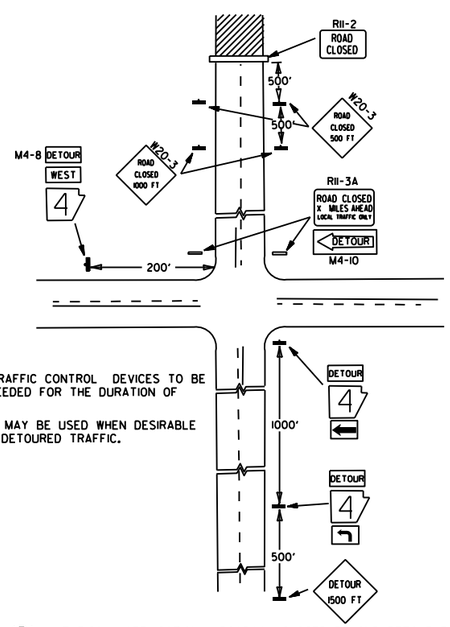
L= MINIMUM LENGTH OF TAPER.

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

W= WIDTH OF OFFSET.

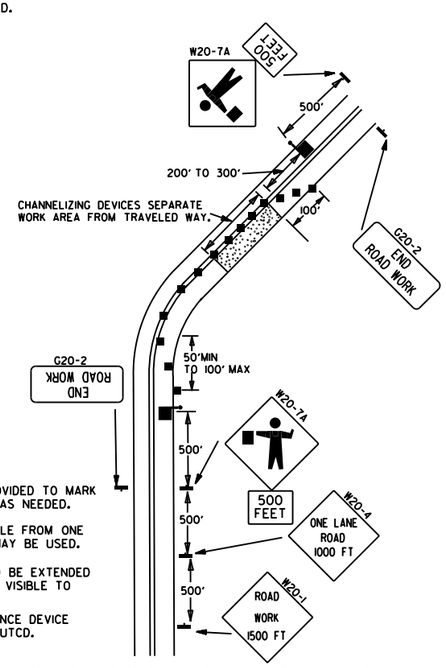
GENERAL NOTES:

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



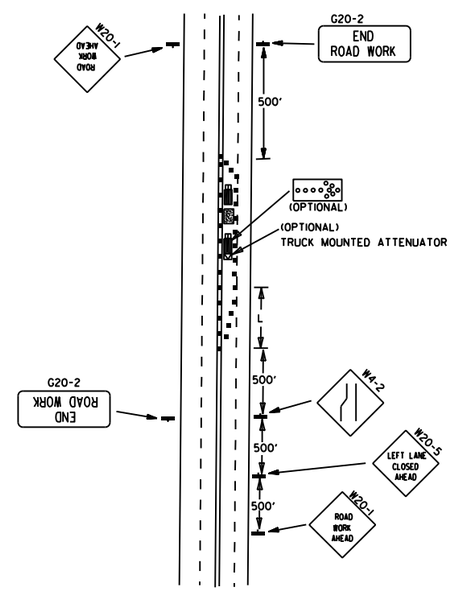
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(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.



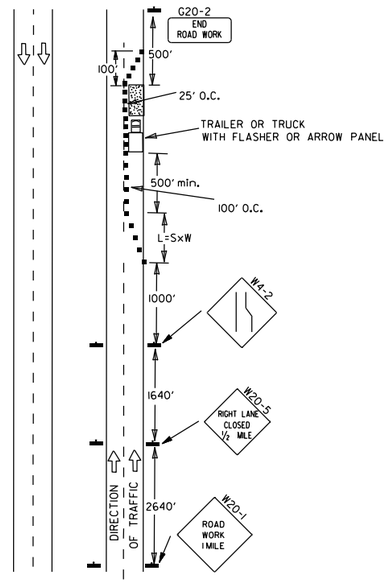
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
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	

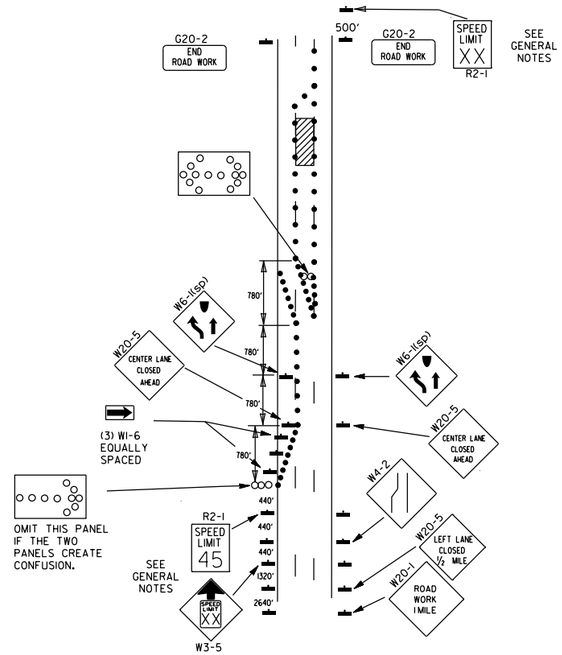
ARKANSAS STATE HIGHWAY COMMISSION

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:

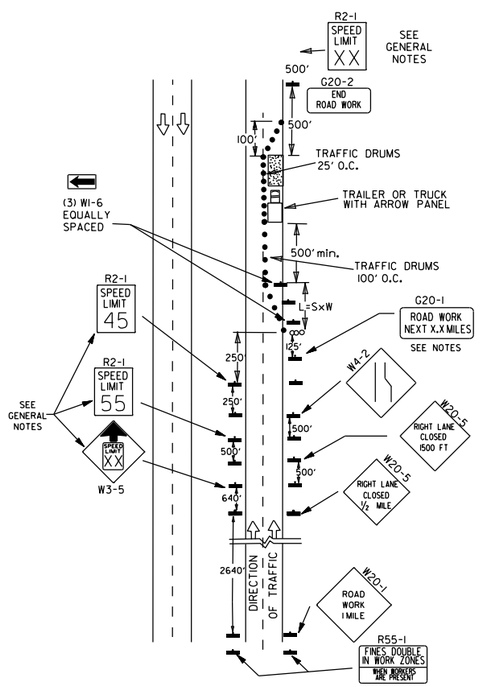
ooo ARROW PANEL (IF REQUIRED)

■ CHANNELIZING DEVICE

● TRAFFIC DRUM

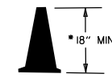
GENERAL NOTES:

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.
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).



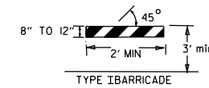
(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

CHANNELIZING DEVICES



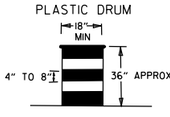
- WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

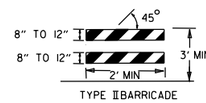
CONES



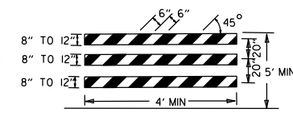
TYPE I BARRICADE

PLASTIC DRUM



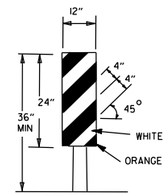


TYPE II BARRICADE



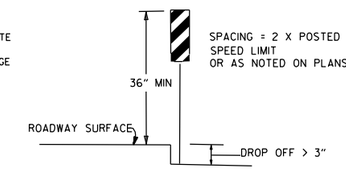
TYPE III BARRICADE

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

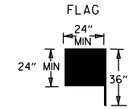


VERTICAL PANEL
VP-1R

VERTICAL PANEL PLACEMENT



FLAG



FLAG SHALL BE OF GOOD GRADE RED MATERIAL

TRAFFIC CONTROL DEVICES

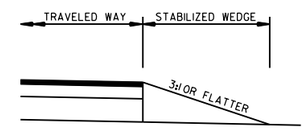
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 2"	CENTERLINE	W8-11 AND LANE STRIPING	W8-11 AND LANE STRIPING
> 2"	CENTERLINE	STANDARD LANE CLOSURE	STANDARD LANE CLOSURE
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND VERTICAL PANELS	W8-9, EDGE LINE STRIPING, AND VERTICAL PANELS
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND VERTICAL PANELS	W8-17, EDGE LINE STRIPING, AND VERTICAL PANELS
> 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
≤ 2"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 2"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 2" ≤ 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:

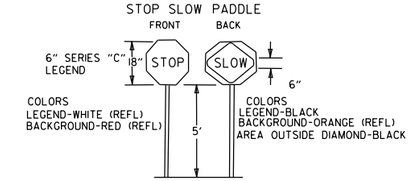
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL 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.



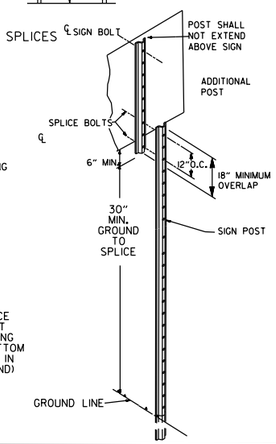
STABILIZED WEDGE

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

STOP SLOW PADDLE



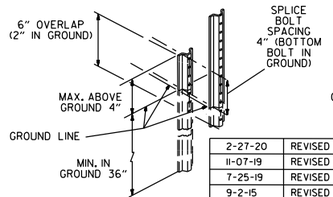
DETAIL OF SPLICES

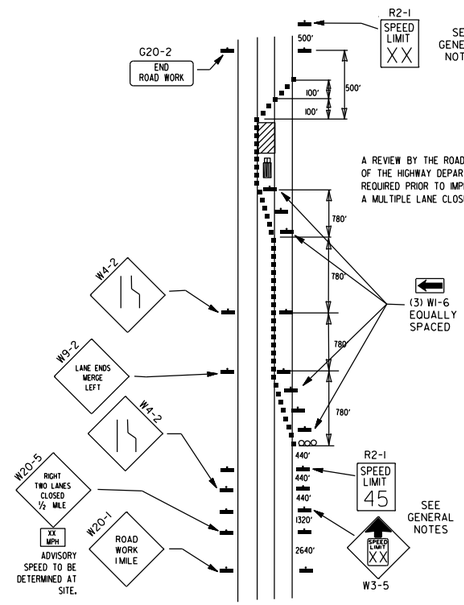


NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)

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

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





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
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	

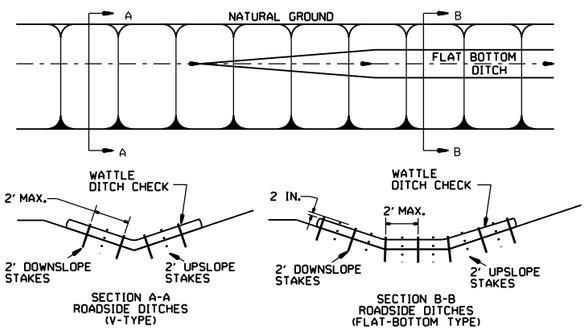
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

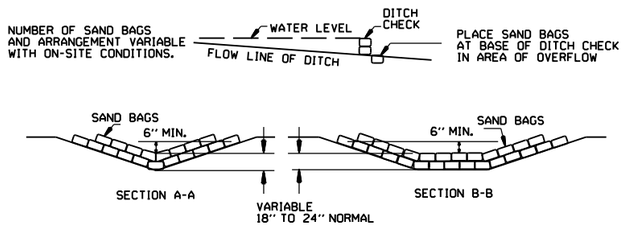
STANDARD DRAWING TC-3

GENERAL NOTES

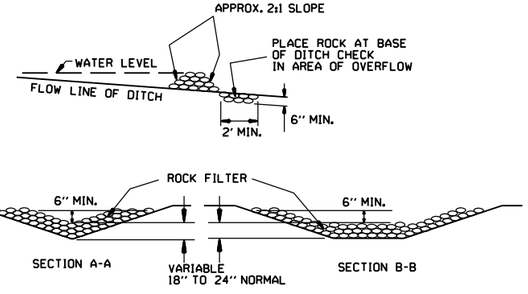
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

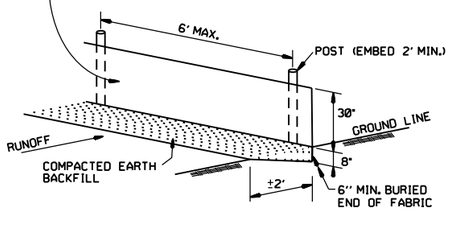


ROCK DITCH CHECK (E-6)

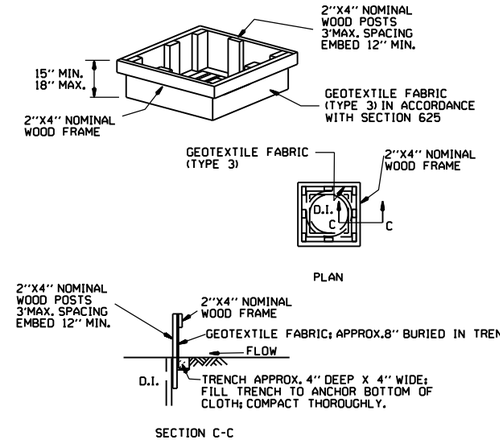
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

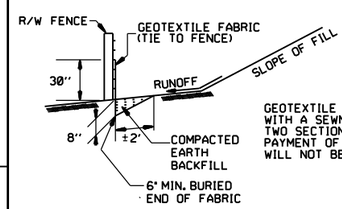
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)

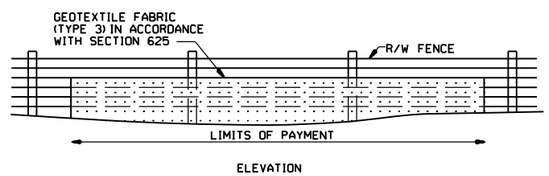


DROP INLET SILT FENCE (E-7)



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.



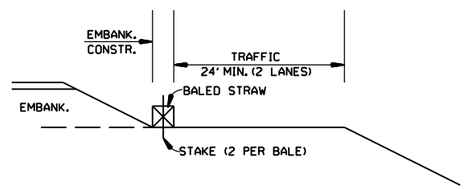
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

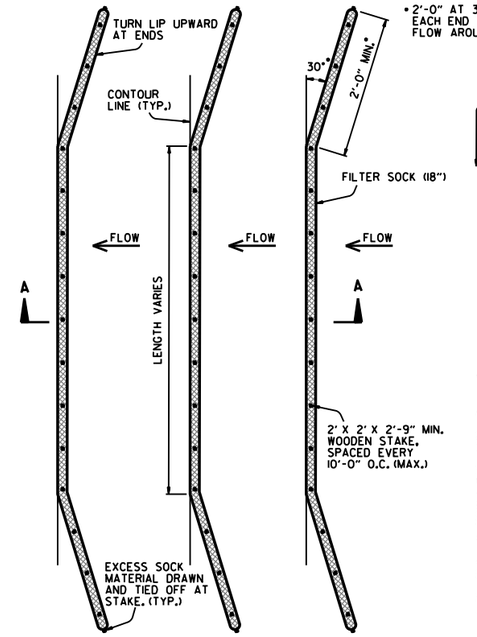
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

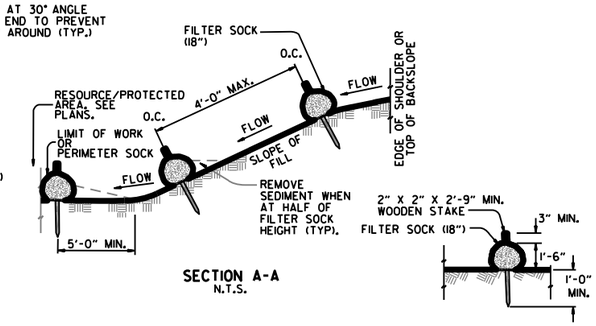
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.

STAKING DETAIL
N.T.S.

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.

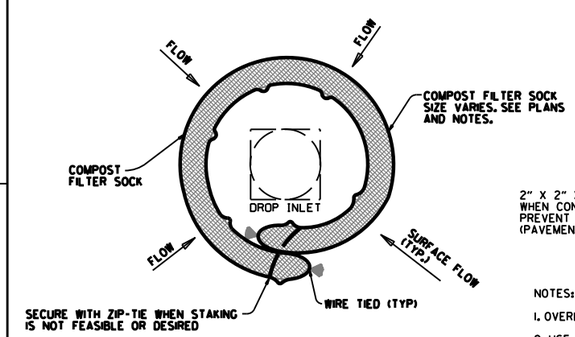
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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")."

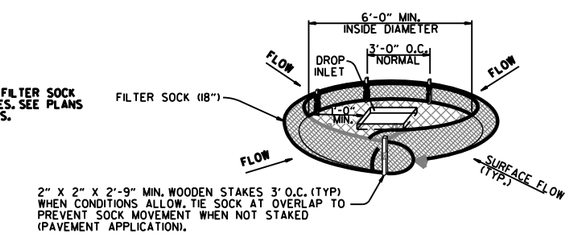
4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

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)



DROP INLET PLAN VIEW
N.T.S.



DROP INLET PERSPECTIVE VIEW
N.T.S.

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

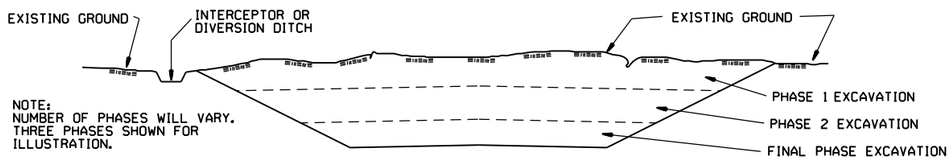
STANDARD DRAWING TEC-1

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



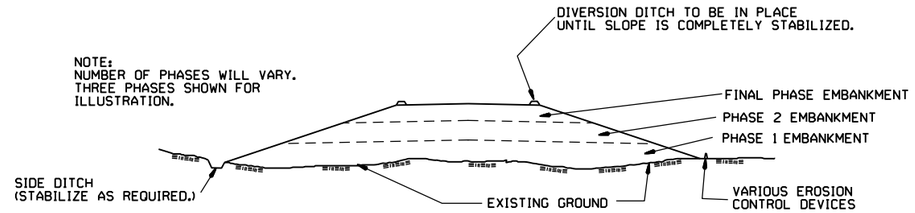
GENERAL NOTE

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