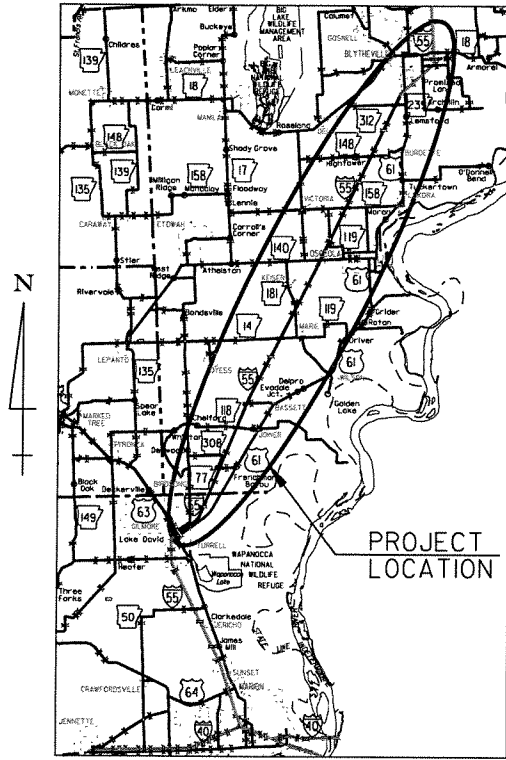


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| | | | | JOB NO. | 012167 | 1 | 93 | |

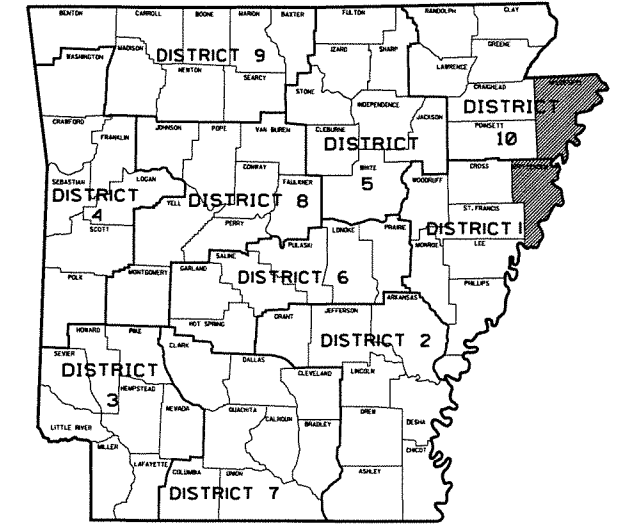
2 HWY. 63-BLYTHEVILLE (SEL. SECS.) CABLE MEDIAN BARRIERS

"A FULLY CONTROLLED ACCESS FACILITY"
 ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
 CONSTRUCTION PLANS FOR STATE HIGHWAY

HWY. 63-BLYTHEVILLE (SEL. SECS.)
 (CABLE MEDIAN BARRIER)(S)
 CRITTENDEN AND MISSISSIPPI COUNTIES
 ROUTE 55 SECTIONS 11 & 12
 FEDERAL AID PROJECT 9050
 JOB 012167



VICINITY MAP



ARKANSAS HIGHWAY DISTRICTS 1 & 10

• DESIGN TRAFFIC DATA •

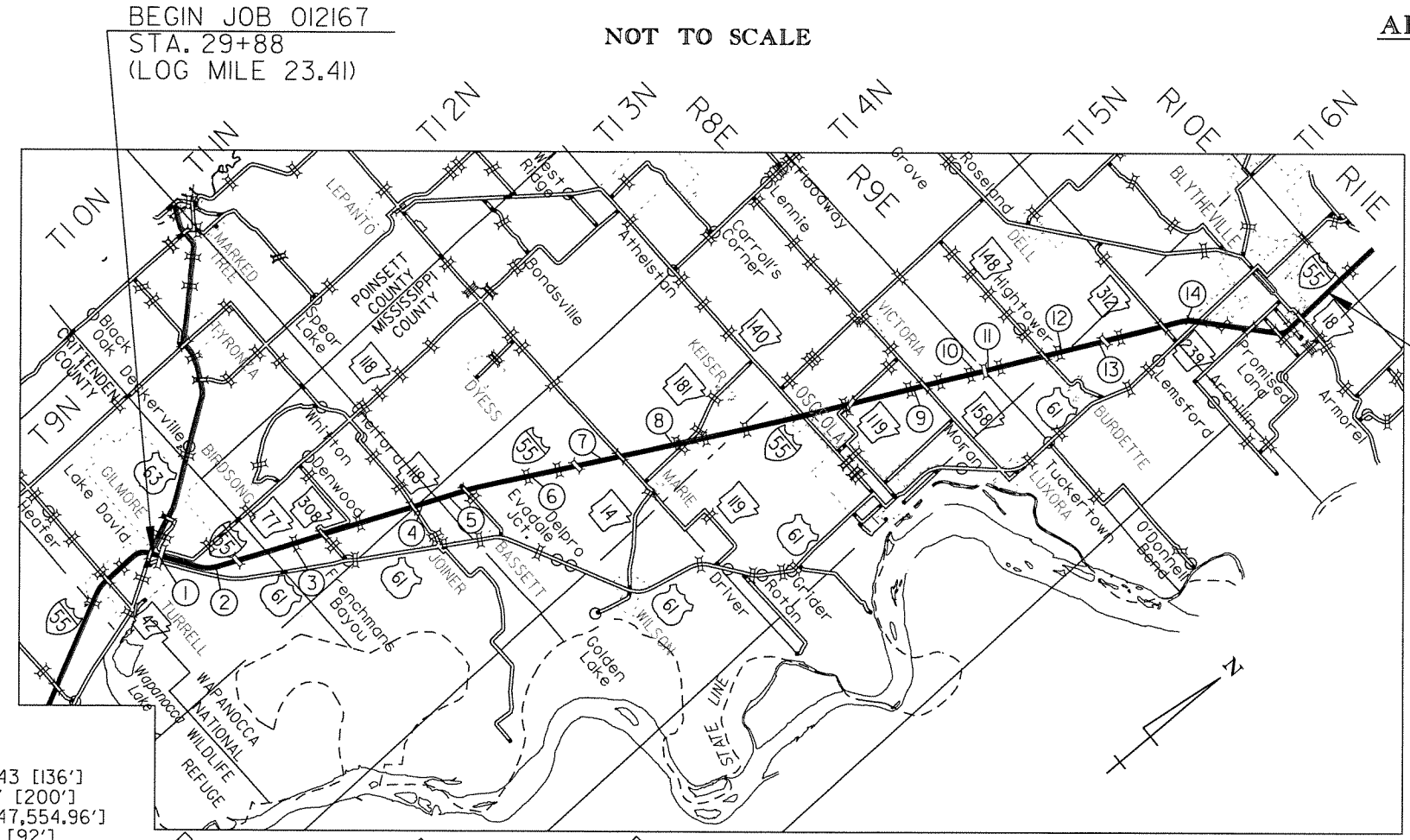
| | I-55 |
|-------------------------------|--------|
| DESIGN YEAR----- | 2033 |
| 2033 ADT----- | 20,000 |
| 2033 ADT----- | 26,000 |
| 2033 DHV----- | 2,860 |
| DIRECTIONAL DISTRIBUTION----- | 60% |
| TRUCKS----- | 44% |
| DESIGN SPEED----- | 70 MPH |

EQUATIONS

- ① STA. 53+94.20 BK. = STA. 0+75.00 AHD.
- ② STA. 112+75.10 BK. = STA. 112+97.09 AHD.
- ③ STA. 268+50.00 BK. = STA. 268+59.78 AHD.
- ④ STA. 530+00.00 BK. = STA. 530+06.00 AHD.
- ⑤ STA. 592+68.21 BK. = STA. 0+00.00 AHD.
- ⑥ STA. 211+47.50 BK. = STA. 211+61.80 AHD.
- ⑦ STA. 310+77.30 BK. = STA. 310+86.25 AHD.
- ⑧ STA. 440+30.59 BK. = STA. 0+00.00 AHD.
- ⑨ STA. 477+37.96 BK. = STA. 0+00.00 AHD.
- ⑩ STA. 135+00.00 BK. = STA. 134+89.40 AHD.
- ⑪ STA. 148+00.00 BK. = STA. 148+20.00 AHD.
- ⑫ STA. 297+93.70 BK. = STA. 287+93.70 AHD.
- ⑬ STA. 377+00.00 BK. = STA. 377+11.82 AHD.
- ⑭ STA. 556+52.90 BK. = STA. 4+87.70 AHD.

EXCEPTIONS

- STA. 269+07 - STA. 270+43 [136']
- STA. 209+27 - STA. 211+27 [200']
- STA. 23+94 - STA. 22+11 [47,554.96']
- STA. 56+03 - STA. 56+95 [92']
- STA. 115+89 - STA. 117+41 [152']
- STA. 296+63 - STA. 297+85 [122']
- STA. 408+65 - STA. 409+75 [110']
- STA. 13+82 - STA. 16+05 [223']
- STA. 61+14 - STA. 70+01 [887']
- STA. 196+98 - STA. 206+83 [985']
- TOTAL LENGTH OF EXCEPTIONS = 50,461.96'



BEGIN JOB 012167
 STA. 29+88
 (LOG MILE 23.41)

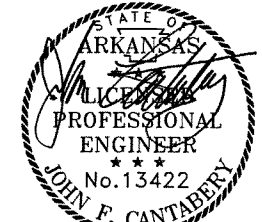
NOT TO SCALE

END JOB 012167
 STA. 232+33
 (LOG MILE 67.42)

| BEGIN POINT OF PROJECT | MID POINT OF PROJECT | END POINT OF PROJECT |
|-------------------------|-------------------------|-------------------------|
| LATITUDE N 35° 23' 29" | LATITUDE N 35° 37' 01" | LATITUDE N 35° 55' 48" |
| LONGITUDE W 90° 16' 28" | LONGITUDE W 90° 06' 30" | LONGITUDE W 89° 52' 28" |

| | |
|-------------------------|---------------------------------|
| GROSS LENGTH OF PROJECT | 232,683.96 FEET OR 44.069 MILES |
| NET LENGTH OF ROADWAY | 182,222.00 FEET OR 34.512 MILES |
| NET LENGTH OF BRIDGES | 0.00 FEET OR 0.000 MILES |
| NET LENGTH OF PROJECT | 182,222.00 FEET OR 34.512 MILES |

DWYANDELL 10/12/2012 15:00:03 PM
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 REVISED DATE:



P.E. JOB 012167
 NON-PART.

10-15-12

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 2 | 93 |

2 INDEX, GOV. SPECS, & GEN. NOTES

INDEX OF SHEETS

| SHEET NO. | TITLE | DRAWING NO. | DATE |
|-----------|--|-------------|----------|
| 1 | TITLE SHEET | | |
| 2 | INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES | | |
| 3 | TYPICAL SECTIONS OF IMPROVEMENT | | |
| 4-8 | SPECIAL DETAILS | | |
| 9-41 | TEMPORARY EROSION CONTROL DETAILS | | |
| 42-44 | MAINTENANCE OF TRAFFIC | | |
| 45-47 | QUANTITY SHEETS | | |
| 48 | SUMMARY OF QUANTITIES AND REVISIONS | | |
| 49-81 | PLAN SHEETS | | |
| 82 | CONCRETE DITCH PAVING | CDP-1 | 11-17-10 |
| 83 | GUARD RAIL DETAILS | GR-8 | 7-14-10 |
| 84 | GUARD RAIL DETAILS | GR-8A | 7-14-10 |
| 85 | GUARD RAIL DETAILS | GR-9 | 4-17-08 |
| 86 | GUARD RAIL DETAILS | GR-9A | 4-17-08 |
| 87 | GUARD RAIL DETAILS | GR-10 | 7-14-10 |
| 88 | GUARD RAIL DETAILS | GR-10A | 7-14-10 |
| 89 | GUARD RAIL DETAILS | GRT-1 | 7-14-10 |
| 90 | STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION | TC-1 | 12-15-11 |
| 91 | STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION | TC-2 | 3-11-10 |
| 92 | STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION | TC-3 | 10-15-09 |
| 93 | TEMPORARY EROSION CONTROL DEVICES | TEC-1 | 12-15-11 |

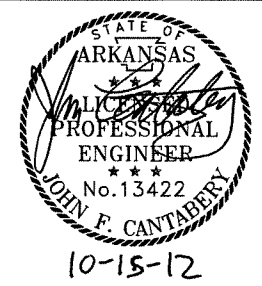
GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2003, 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 |
| 100-2 | MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) |
| 102-1 | BIDDING REQUIREMENTS AND CONDITIONS |
| 103-1 | DETERMINATION OF DBE PARTICIPATION |
| 105-1 | CONSTRUCTION CONTROL MARKINGS |
| 105-2 | EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES |
| 105-3 | CONTROL OF WORK |
| 107-1 | WORKER VISIBILITY |
| 108-1 | LIQUIDATED DAMAGES |
| 303-1 | AGGREGATE BASE COURSE |
| 404-1 | PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX |
| 404-2 | DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES |
| 409-1 | MINERAL AGGREGATES |
| 410-3 | DENSITY TESTING FOR ACHM LEVELING COURSES AND BOND BREAKERS |
| 600-1 | WATER FOR VEGETATION |
| 603-1 | MAINTENANCE OF TRAFFIC |
| 604-1 | RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES |
| 604-2 | INSPECTION OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES |
| JOB 012167 | BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT |
| JOB 012167 | CONCRETE DITCH PAVING |
| JOB 012167 | GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION |
| JOB 012167 | INTERNET BIDDING |
| JOB 012167 | MAINTENANCE OF TRAFFIC |
| JOB 012167 | PARTNERING REQUIREMENTS |
| JOB 012167 | REMOVAL AND DISPOSAL OF GUARDRAIL |
| JOB 012167 | REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS |
| JOB 012167 | SEQUENCE OF CONSTRUCTION |
| JOB 012167 | SITE USE (A + C METHOD) |
| JOB 012167 | SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS |
| JOB 012167 | TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES |
| JOB 012167 | UTILITY ADJUSTMENTS |
| JOB 012167 | VALUE ENGINEERING |
| JOB 012167 | WARM MIX ASPHALT |
| JOB 012167 | WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS |
| JOB 012167 | WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS |
| JOB 012167 | WRSF TRAINING WORKSHOP |

GENERAL NOTES

- ALL PIPE LINES, POWER, TELEPHONE AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ANY REQUIRED EROSION CONTROL MEASURES FROM WASTING MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE.



INDEX OF SHEETS,
GOVERNING SPECIFICATIONS,
AND GENERAL NOTES

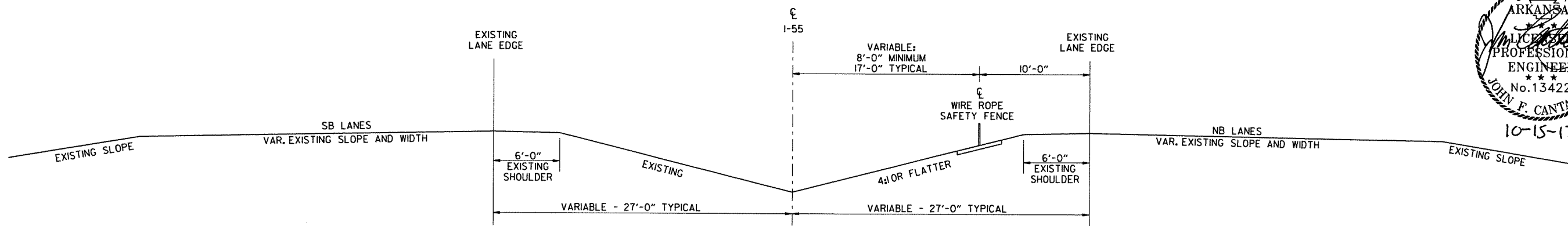
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| | | | | | | JOB NO. 012167 | 3 | 93 |

② TYPICAL SECTIONS OF IMPROVEMENT



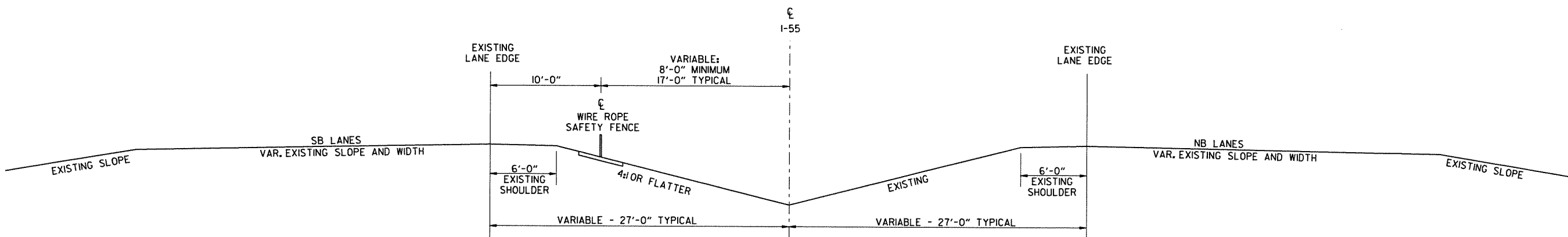
10-15-12



TYPICAL SECTION OF IMPROVEMENT

WRSF ON NORTHBOUND FORESLOPE

- STA. 38+31.00 TO STA. 49+40.00
- STA. 1+93.00 TO STA. 48+59.00
- STA. 153+58.00 TO STA. 214+84.00
- STA. 270+43.00 TO STA. 314+02.00
- STA. 27+66.00 TO STA. 179+02.00
- STA. 211+27.00 TO STA. 245+80.00
- STA. 247+13.00 TO STA. 333+12.00
- STA. 334+39.00 TO STA. 23+94.00
- STA. 27+04.00 TO STA. 56+03.00
- STA. 56+95.00 TO STA. 115+89.00
- STA. 117+41.00 TO STA. 146+37.00
- STA. 147+69.00 TO STA. 266+49.00
- STA. 267+77.00 TO STA. 296+63.00
- STA. 297+85.00 TO STA. 378+34.00
- STA. 409+75.00 TO STA. 425+02.00
- STA. 497+00.00 TO STA. 13+82.00
- STA. 16+05.00 TO STA. 61+14.00
- STA. 70+01.00 TO STA. 116+55.00
- STA. 206+83.00 TO STA. 227+15.00



TYPICAL SECTION OF IMPROVEMENT

WRSF ON SOUTHBOUND FORESLOPE

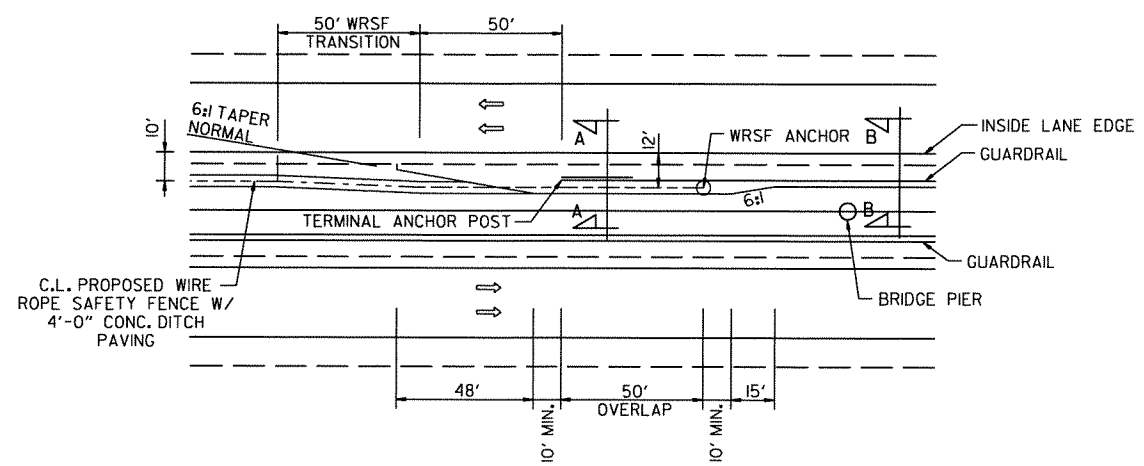
- STA. 48+07.00 TO STA. 152+22.00
- STA. 214+80.00 TO STA. 269+07.00
- STA. 313+98.00 TO STA. 327+28.00
- STA. 328+61.00 TO STA. 511+67.00
- STA. 513+02.00 TO STA. 26+34.00
- STA. 178+98.00 TO STA. 209+27.00
- STA. 379+64.00 TO STA. 408+65.00
- STA. 424+98.00 TO STA. 495+74.00
- STA. 117+79.00 TO STA. 171+64.00
- STA. 172+84.00 TO STA. 196+98.00

TYPICAL SECTIONS OF IMPROVEMENT

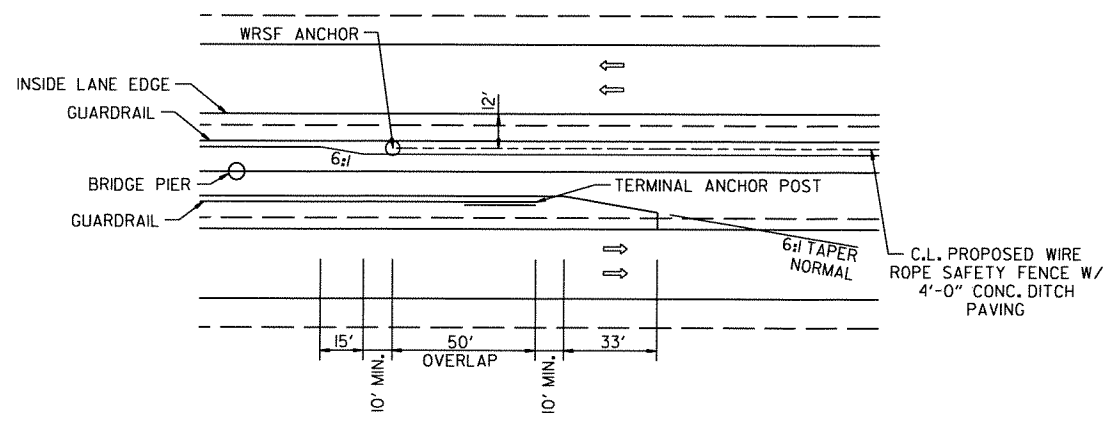
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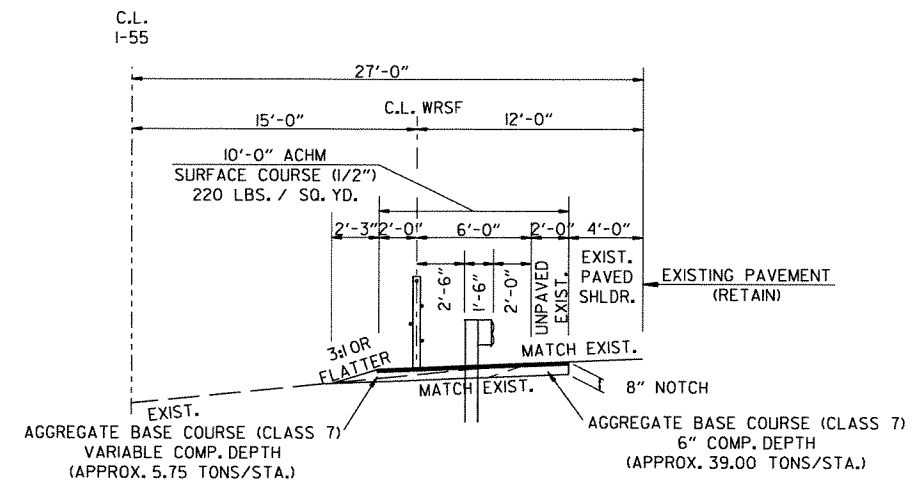
2 SPECIAL DETAILS



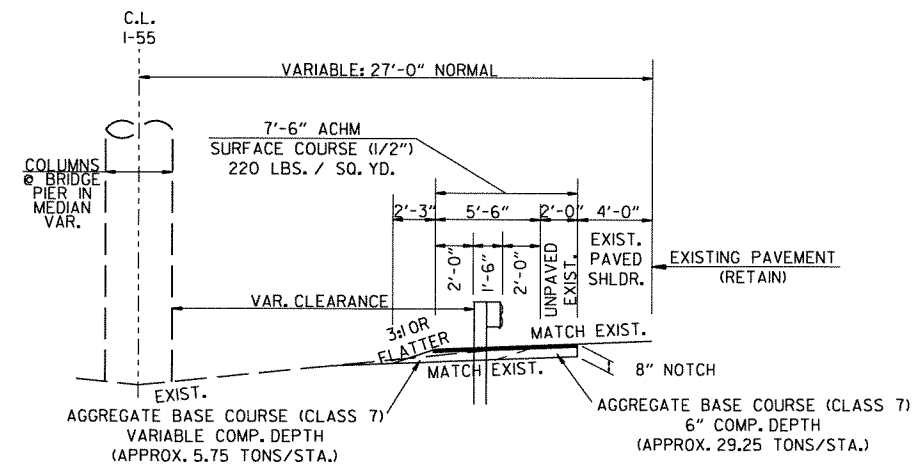
WRSF AND GUARDRAIL TERMINAL SAME SIDE OF C.L. CONST.



WRSF AND GUARDRAIL TERMINAL OPPOSITE SIDE OF C.L. CONST.



SECTION A-A



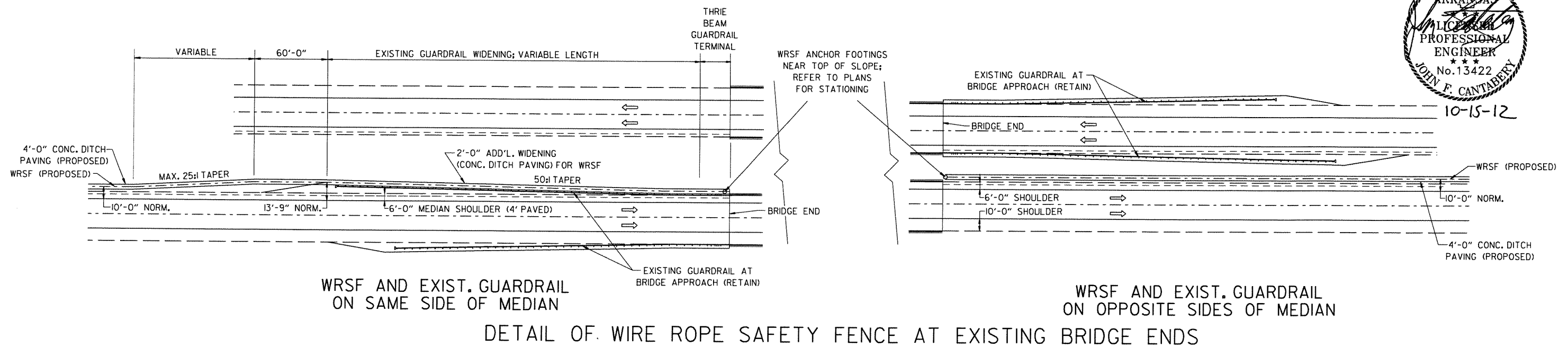
SECTION B-B

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

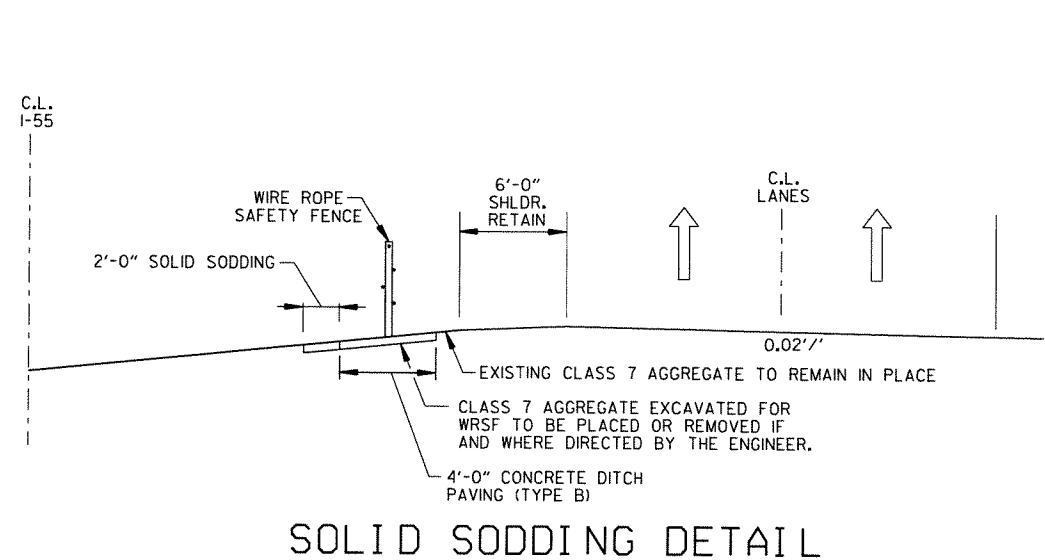
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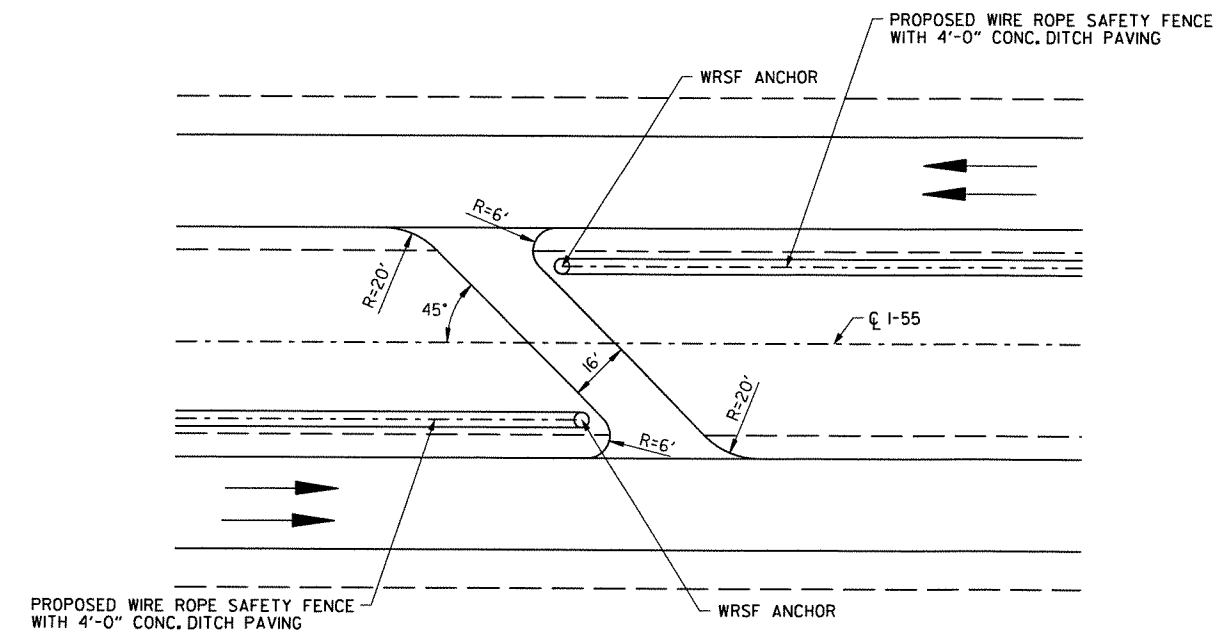
2 SPECIAL DETAILS



DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS



SOLID SODDING DETAIL



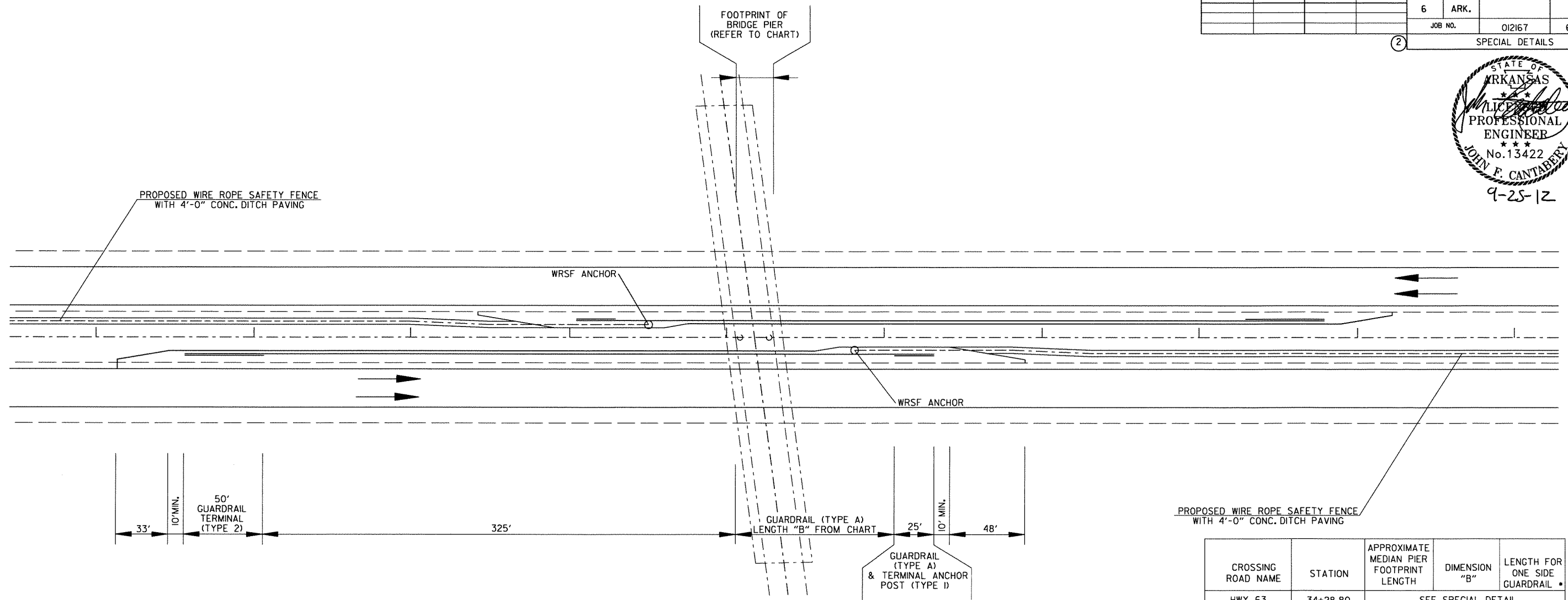
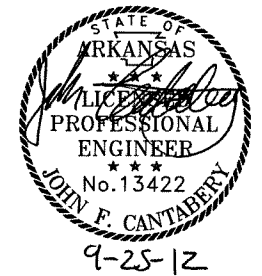
DETAIL OF PAVED MEDIAN CROSSING

NOTE:
 MEDIAN CROSSING TO BE CONSTRUCTED OF AGGREGATE
 BASE COURSE (CLASS 7) - 7" COMPACTED DEPTH &
 ACHM SURFACE COURSE (1/2") - 220 LBS. PER SQ. YD.

DWYANDELL 10/15/2012 9:35:05 AM
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| | | | | 6 | ARK. | | | |
| | | | | | | 012167 | 6 | 93 |

2 SPECIAL DETAILS



DETAIL AT OVERPASSES

HWY. 63, HWY. I-55 TO HWY. 63 FLYOVER RAMP, RAILROAD, COUNTY ROAD 28, HWY. 308, HWY. 118, HWY. 181, COUNTY ROAD 940, HWY. 14, HWY. 158, COUNTY ROAD 506, HWY. 148, COUNTY ROAD 378, HWY. 312, HWY. 239, HWY. 312, HWY. 18

| CROSSING ROAD NAME | STATION | APPROXIMATE MEDIAN PIER FOOTPRINT LENGTH | DIMENSION "B" | LENGTH FOR ONE SIDE GUARDRAIL * |
|------------------------------|-----------|--|---------------|---------------------------------|
| HWY. 63 | 34+28.80 | SEE SPECIAL DETAIL | | |
| I-55 TO HWY. 63 FLYOVER RAMP | 37+66.27 | SEE SPECIAL DETAIL | | |
| RAILROAD | 1+16.46 | SEE SPECIAL DETAIL | | |
| COUNTY RD. 28 | 152+89.60 | 14' | 100' | 450' |
| HWY. 308 | 327+94.40 | 16' | 100' | 450' |
| HWY. 118 | 512+34.43 | 15' | 100' | 450' |
| HWY. 181 | 27+00.00 | 19' | 100' | 450' |
| COUNTY RD. 940 | 246+46.33 | 18' | 100' | 450' |
| HWY. 14 | 333+75.43 | 23' | 100' | 450' |
| HWY. 158 | 26+40.00 | 22' | 100' | 450' |
| COUNTY RD. 506 | 147+03.00 | 17' | 100' | 450' |
| HWY. 148 | 267+12.66 | 22' | 100' | 450' |
| COUNTY RD. 378 | 378+99.00 | 20' | 100' | 450' |
| HWY. 312 | 496+37.26 | 24' | 100' | 450' |
| HWY. 239 | 117+16.80 | 26' | 100' | 450' |
| HWY. 312 | 172+24.13 | 30' | 100' | 450' |
| HWY. 18 | 227+88.00 | 54' | 125' | 475' |

DIMENSIONS ARE TYPICAL BOTH DIRECTIONS

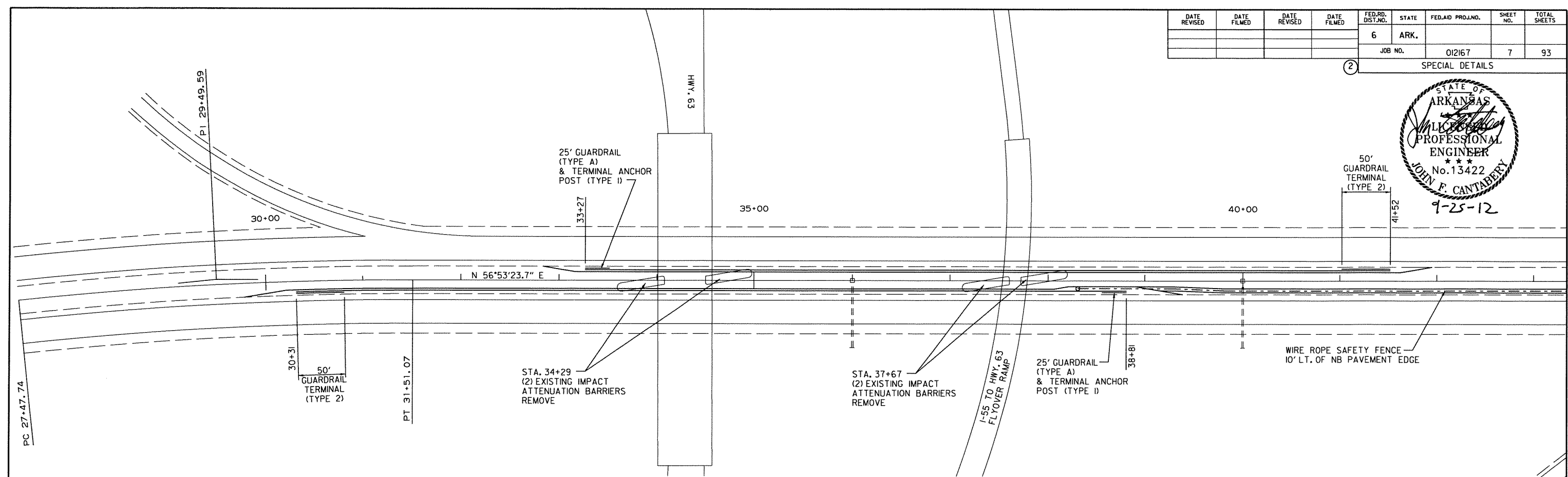
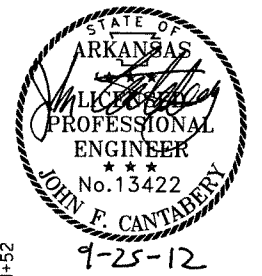
* GUARDRAIL LENGTH IS ROUNDED UP BASED ON GUARDRAIL STOCK LENGTH OF 25.0'.

SPECIAL DETAILS

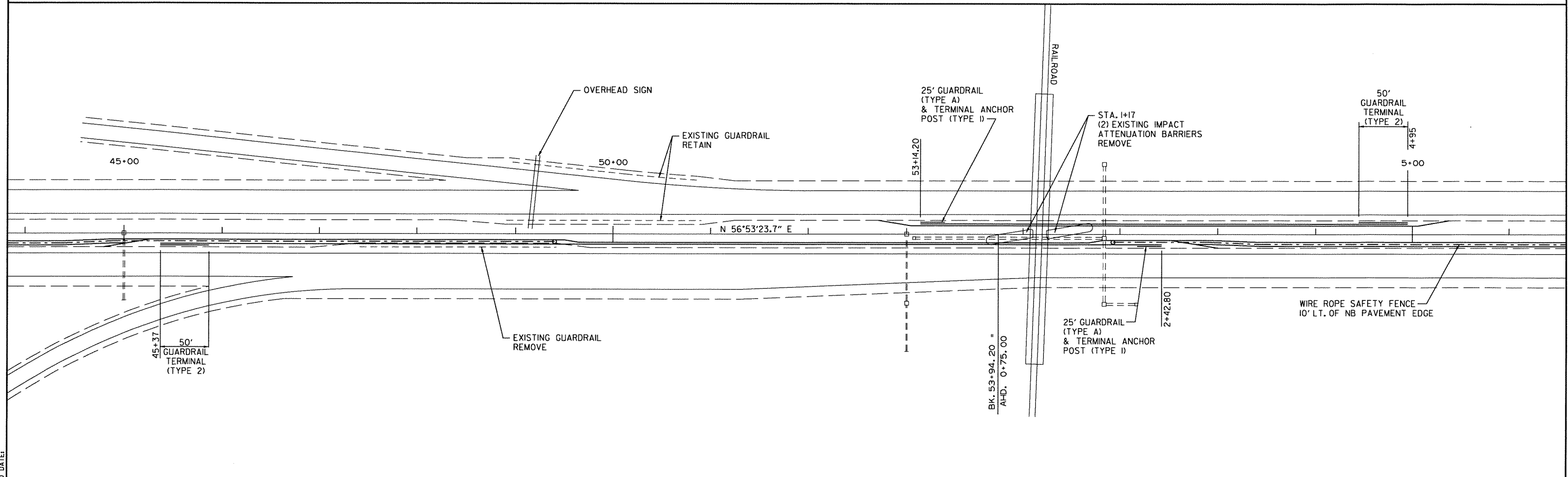
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 7 | 93 |

② SPECIAL DETAILS



DETAIL AT HWY. 63 OVERPASS AND I-55 TO HWY. 63 FLYOVER RAMP



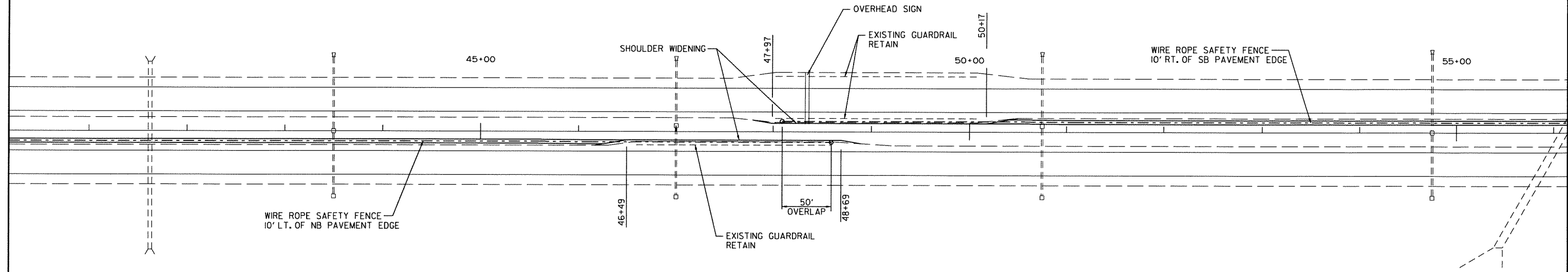
DETAIL AT RAILROAD OVERPASS AND OVERHEAD SIGN STRUCTURE

SPECIAL DETAILS

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|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 8 | 93 |

② SPECIAL DETAILS



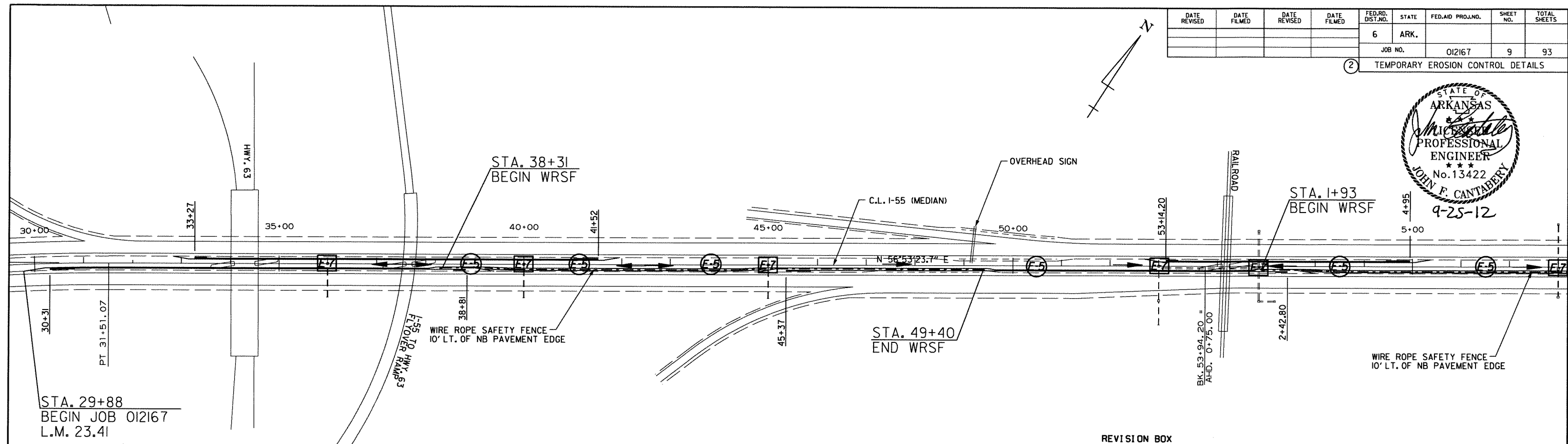
DETAIL AT OVERHEAD SIGN STRUCTURE (STA. 48+35)

SPECIAL DETAILS

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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 9 | 93 |

② TEMPORARY EROSION CONTROL DETAILS

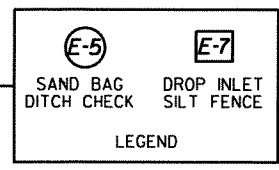


STA. 29+88
BEGIN JOB 012167
L.M. 23.41

STA. 38+31
BEGIN WRSF

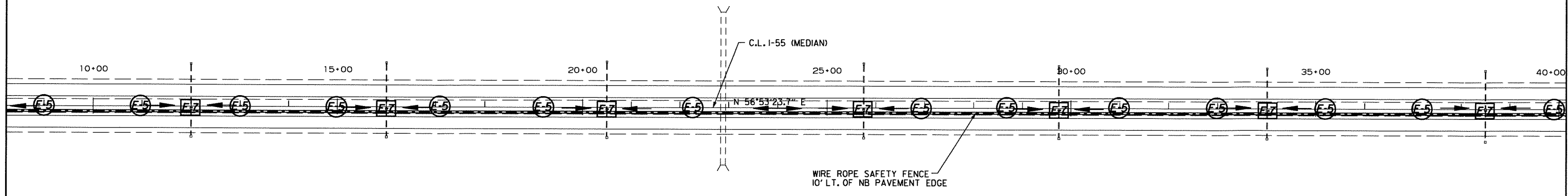
STA. 49+40
END WRSF

STA. 1+93
BEGIN WRSF



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| DATE OF REVISION | REVISION |
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STA. 22+89 - IN PLACE
10'X10'X310' R.C. BOX CULVERT
RETAIN

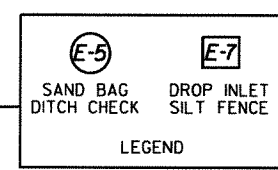
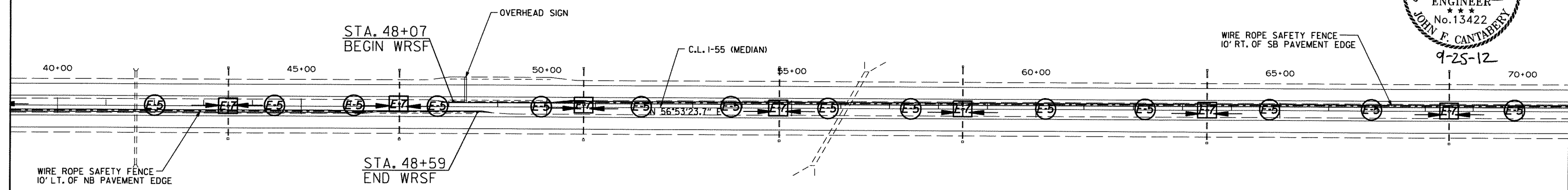
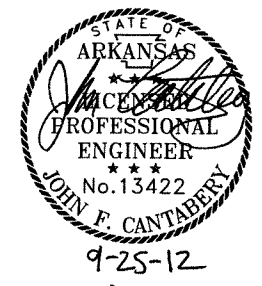


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 REVISED DATE:

TEMPORARY EROSION CONTROL DETAILS
STA. 29+88 - STA. 40+00

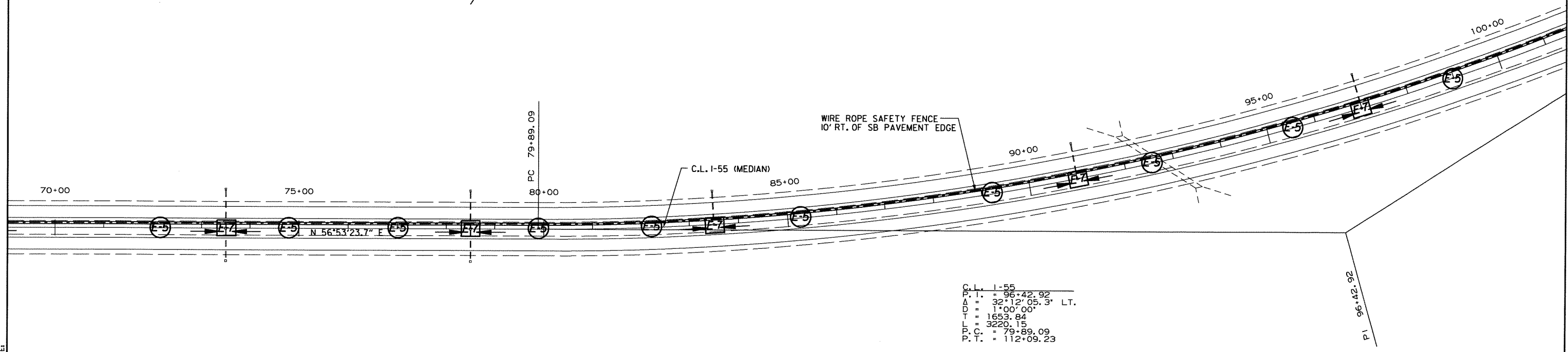
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|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 10 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



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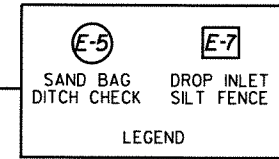
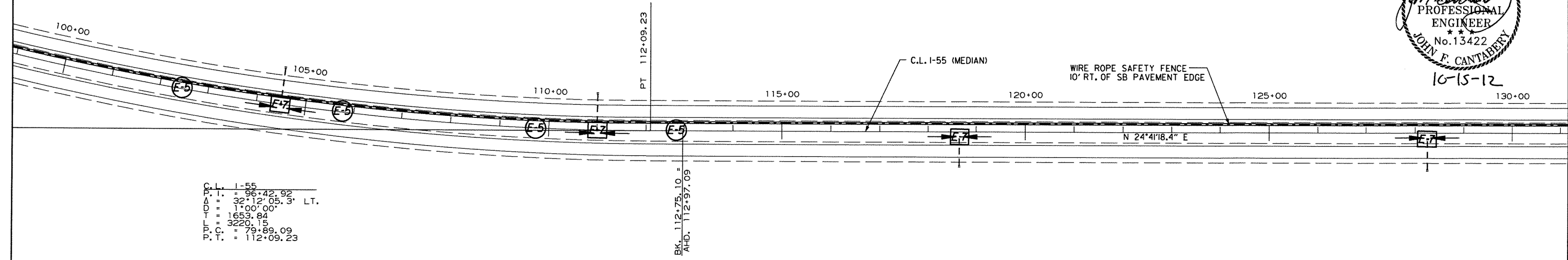
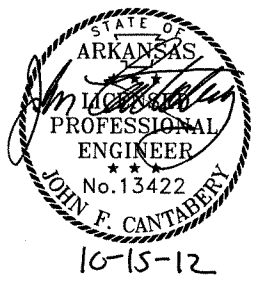
C.L. I-55
 P.I. = 96+42.92
 $\Delta = 32^{\circ} 12' 05.3''$ LT.
 $\Delta = 1^{\circ} 00' 00''$
 T = 1653.84
 L = 3220.15
 P.C. = 79+89.09
 P.T. = 112+09.23

TEMPORARY EROSION CONTROL DETAILS
 STA. 40+00 - STA. 100+00

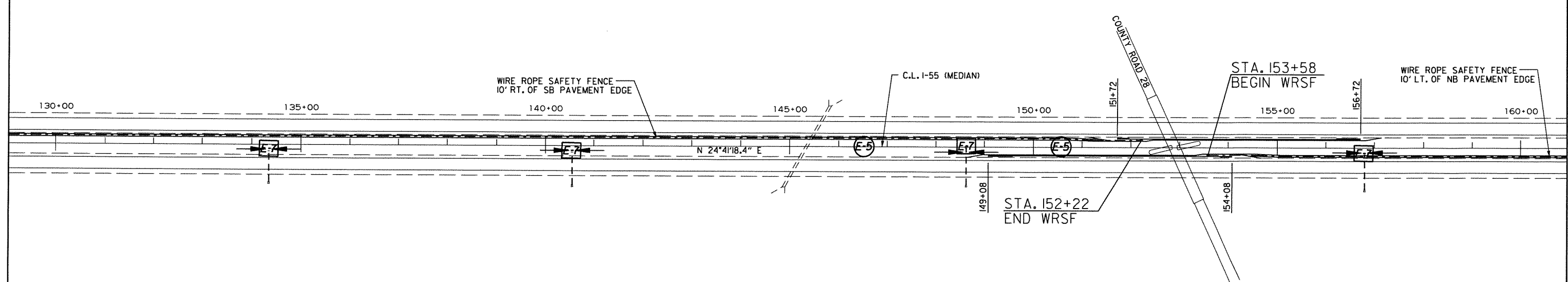
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | II | 93 | |

② TEMPORARY EROSION CONTROL DETAILS



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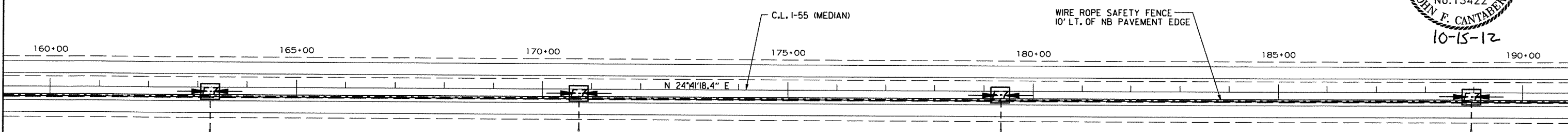


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 REVISED DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 100+00 - STA. 160+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | 12 | 93 | |

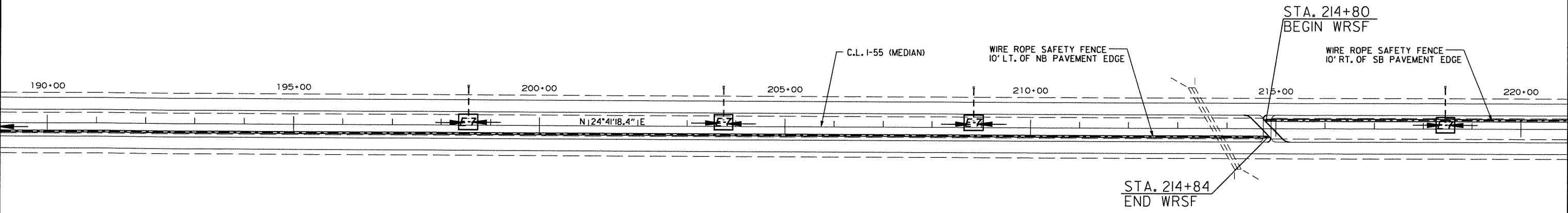
2 TEMPORARY EROSION CONTROL DETAILS



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| E-5 | E-7 |
| SAND BAG DITCH CHECK | DROP INLET SILT FENCE |
| LEGEND | |

INDICATES DIRECTION OF MEDIAN DRAINAGE

| REVISION BOX | |
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| DATE OF REVISION | REVISION |
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STA. 214+84
END WRSF

STA. 214+80
BEGIN WRSF

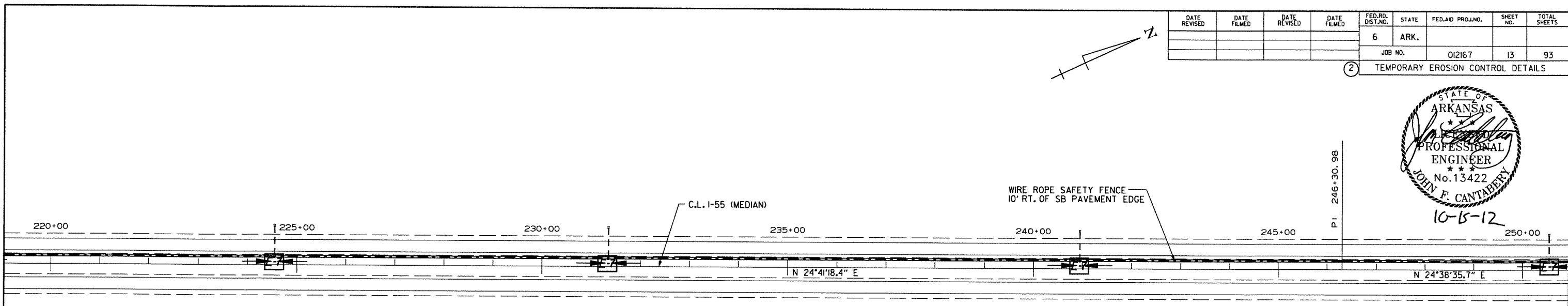
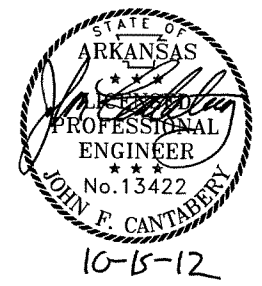
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 REVISION DATE:

TEMPORARY EROSION CONTROL DETAILS
STA. 160+00 - STA. 220+00

DWYANDELL 10/12/2012 15:13:38 PM
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| | | | | | | JOB NO. 012167 | 13 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



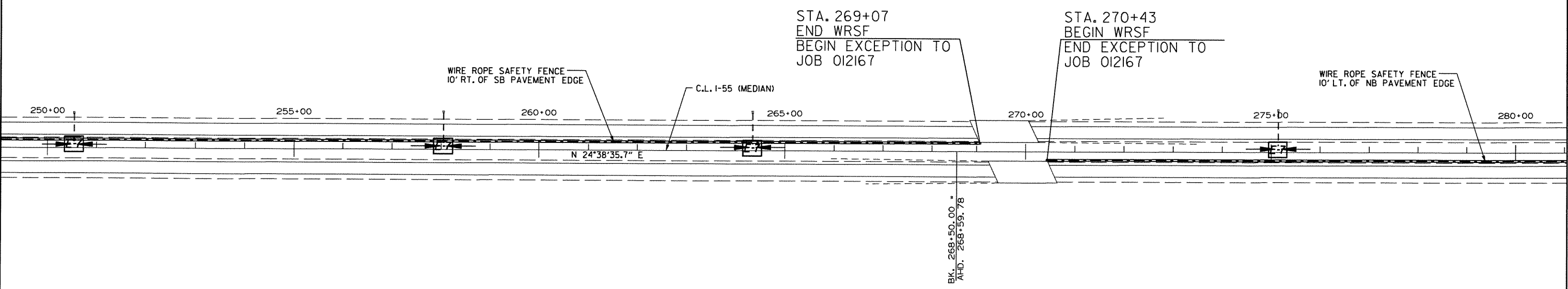
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SAND BAG DITCH CHECK
 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

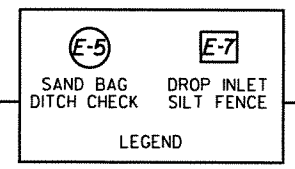
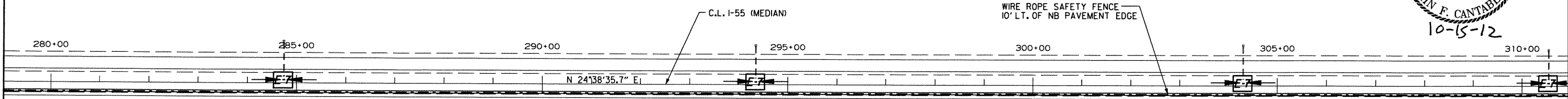
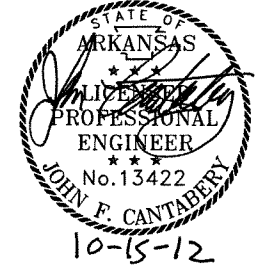
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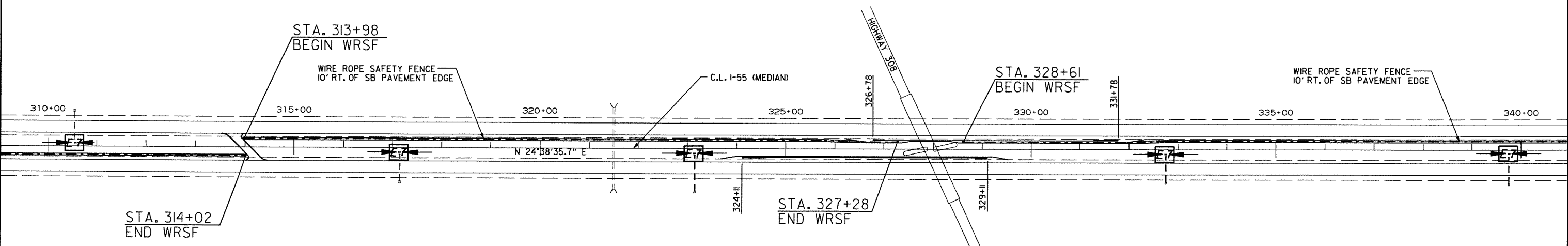
TEMPORARY EROSION CONTROL DETAILS
 STA. 220+00 - STA. 280+00

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| | | | | 6 | ARK. | | | |
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2 TEMPORARY EROSION CONTROL DETAILS



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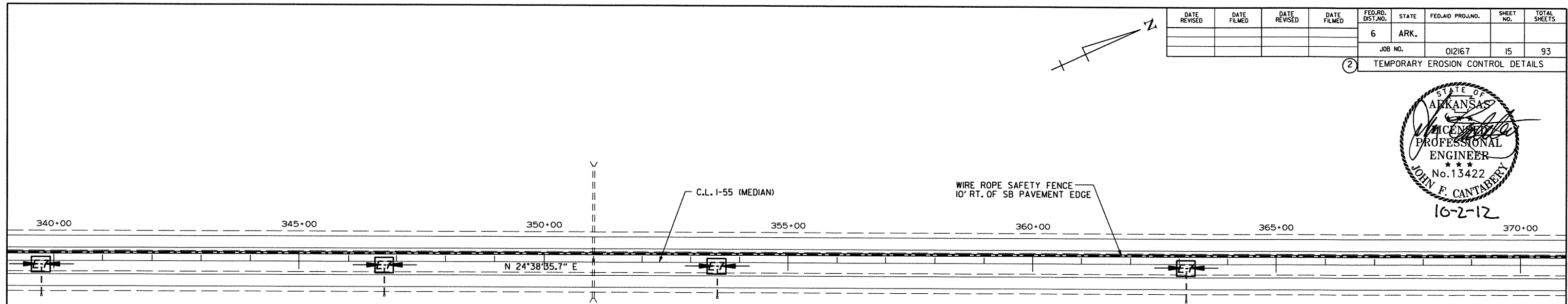


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 REVISION DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 280+00 - STA. 340+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | 15 | 93 | |

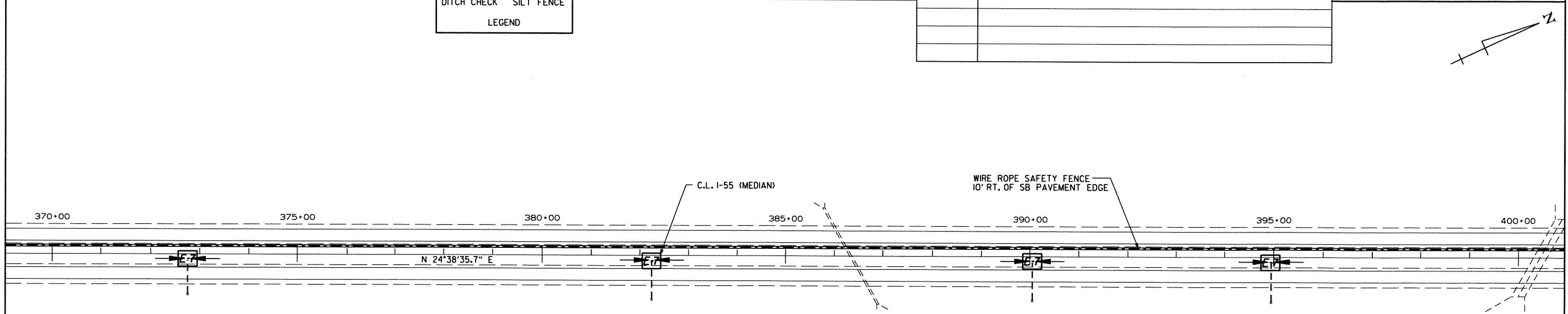
② TEMPORARY EROSION CONTROL DETAILS



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| E-5 | E-7 |
| SAND BAG DITCH CHECK | DROP INLET SILT FENCE |
| LEGEND | |

INDICATES DIRECTION OF MEDIAN DRAINAGE

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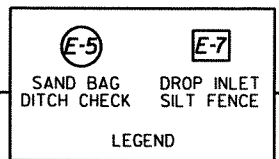
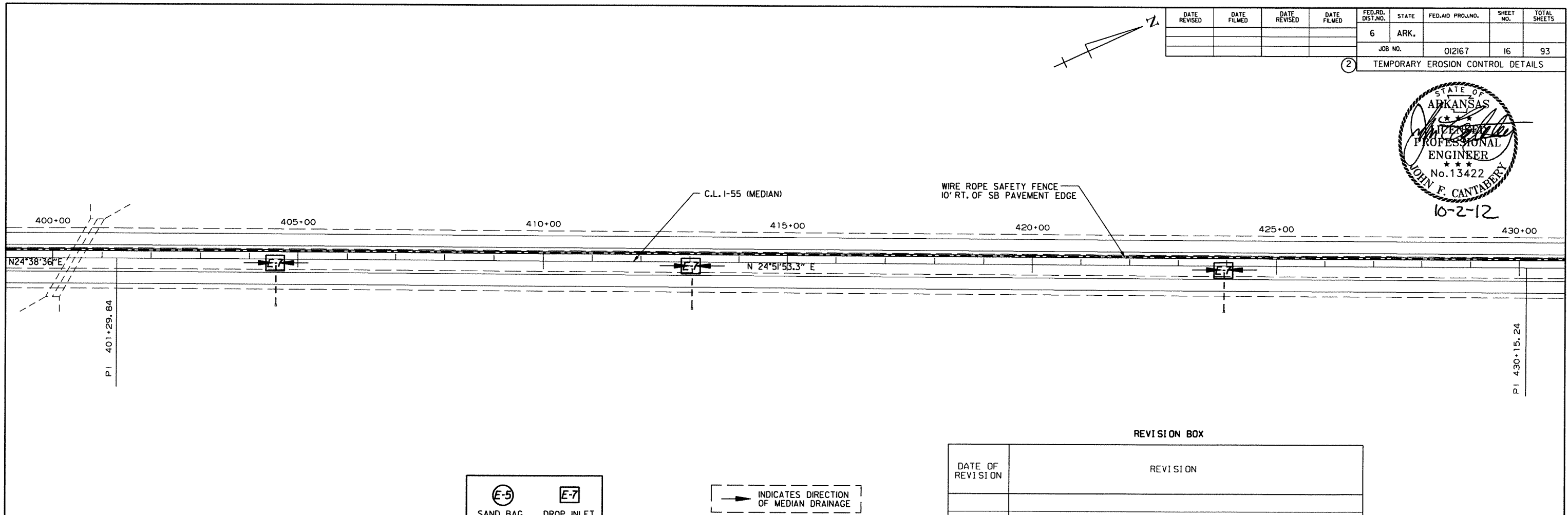
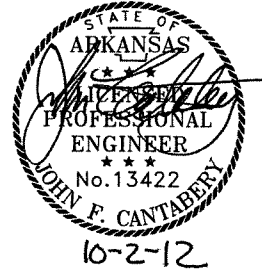


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 REVISED DATE:

TEMPORARY EROSION CONTROL DETAILS
STA. 340+00 - STA. 400+00

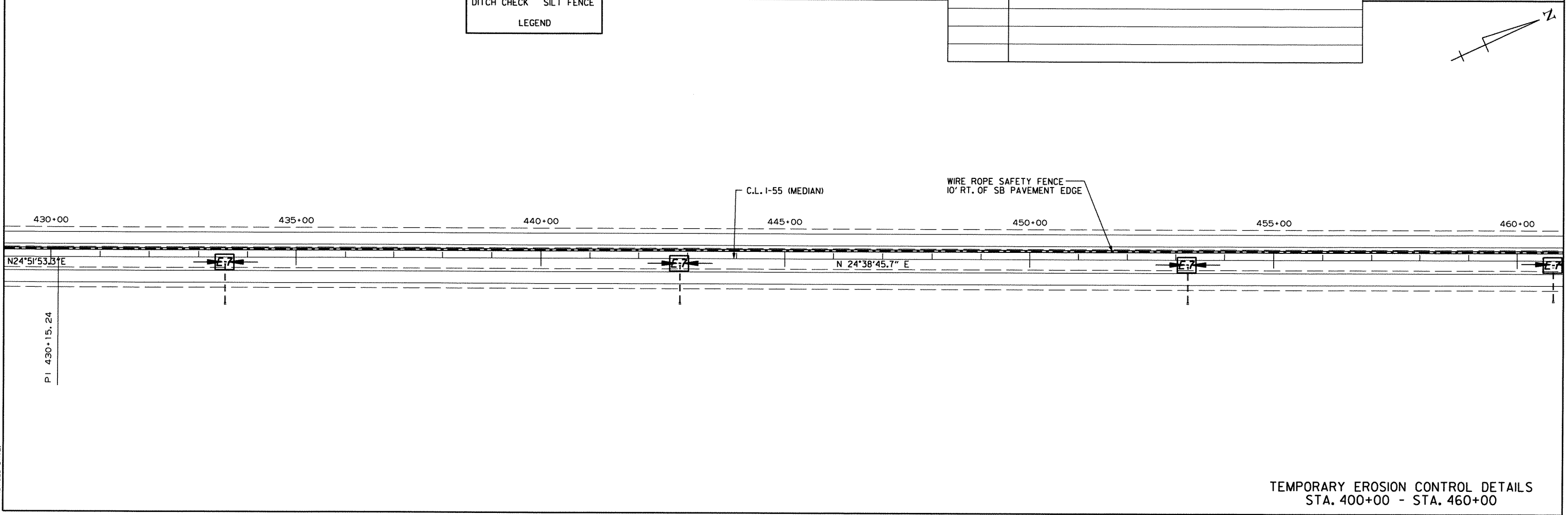
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| | | | | 6 | ARK. | | | | |
| JOB NO. | | | | | | | 012167 | 16 | 93 |

2 TEMPORARY EROSION CONTROL DETAILS



REVISION BOX

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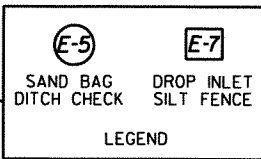
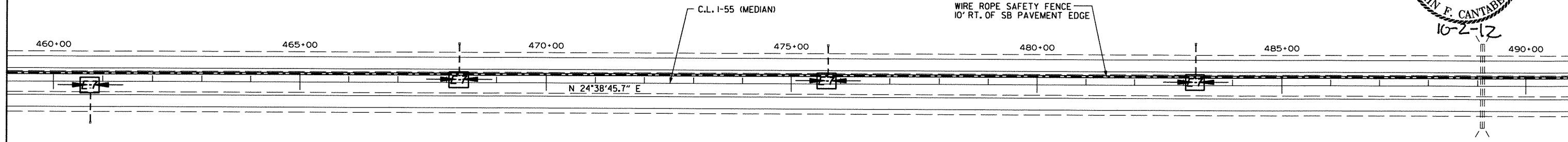
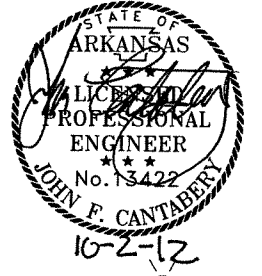


TEMPORARY EROSION CONTROL DETAILS
STA. 400+00 - STA. 460+00

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 REVISED DATE:

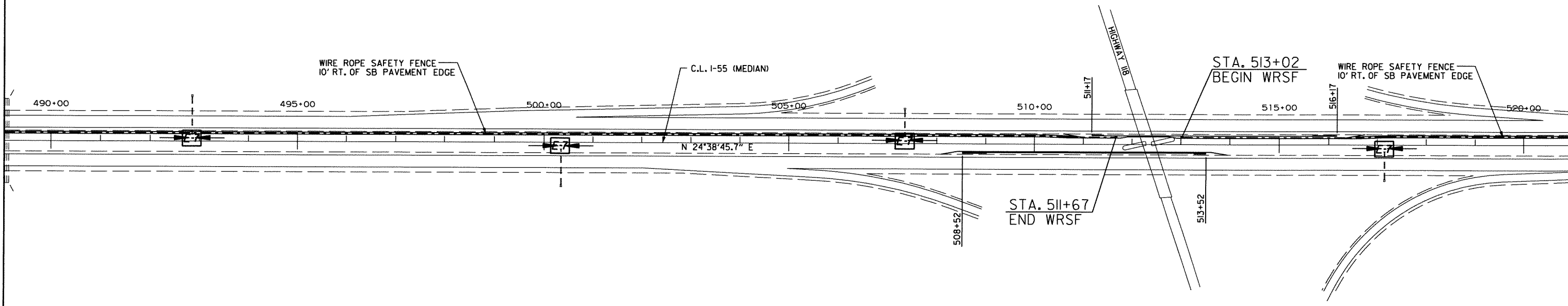
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| | | | | 6 | ARK. | | | |
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2 TEMPORARY EROSION CONTROL DETAILS



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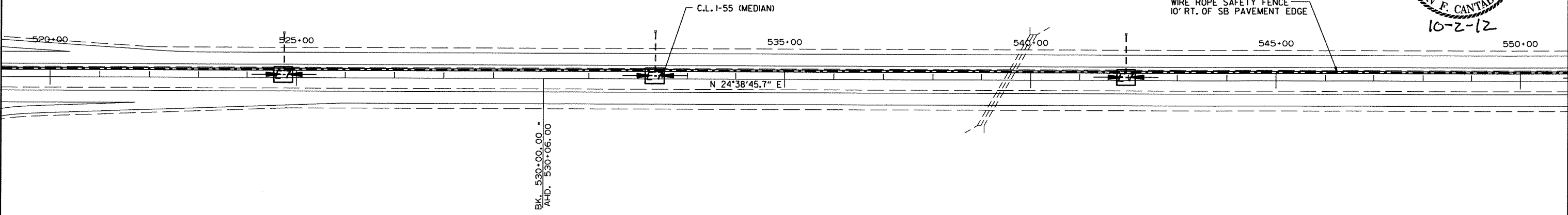
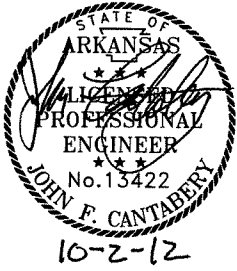


TEMPORARY EROSION CONTROL DETAILS
 STA. 460+00 - STA. 520+00

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| | | | | JOB NO. | 012167 | 18 | 93 | |

TEMPORARY EROSION CONTROL DETAILS



LEGEND

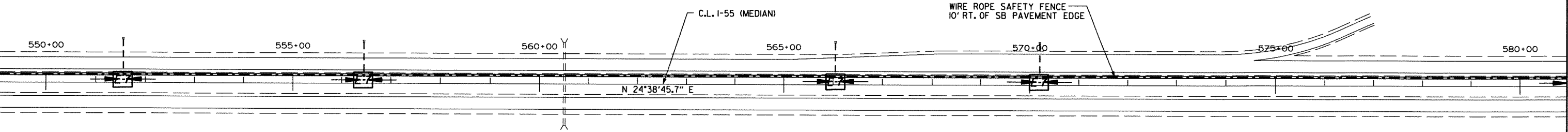
E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

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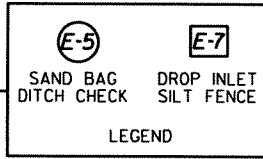
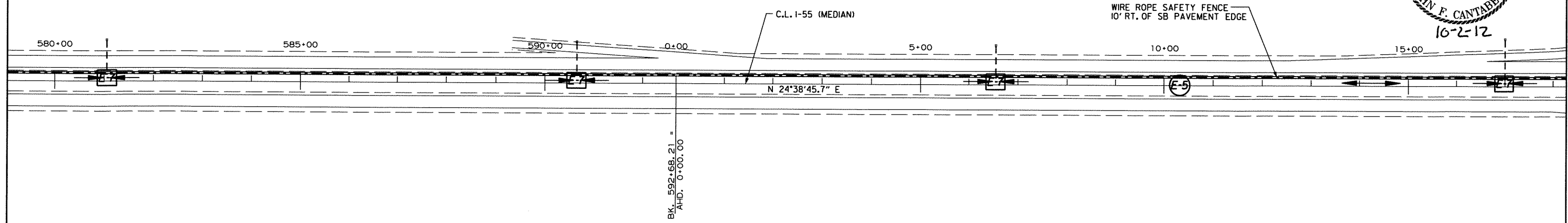
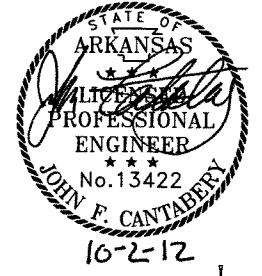


TEMPORARY EROSION CONTROL DETAILS
STA. 520+00 - STA. 580+00

RNF or tner 10/1/2012 1:07:12 PM
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 REVISION DATE:

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| | | | | JOB NO. | 012167 | 19 | 93 | |

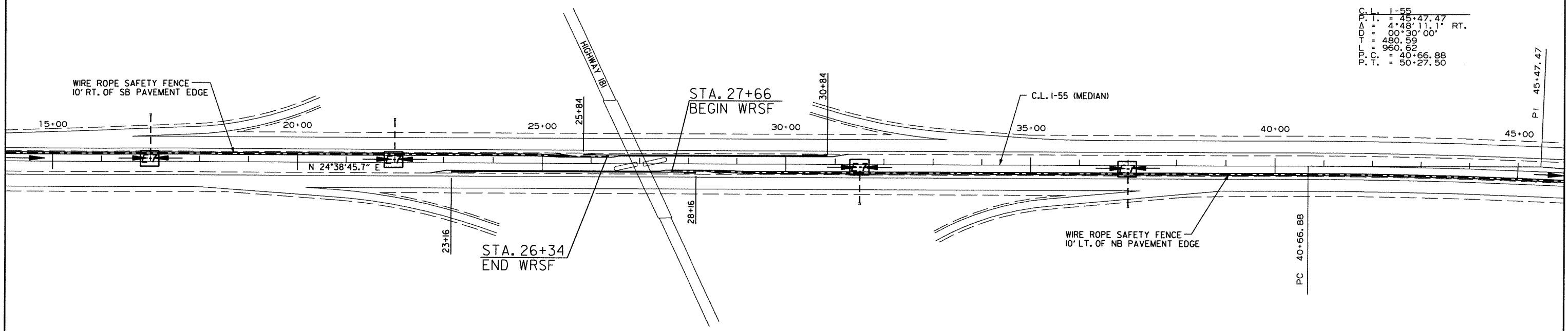
② TEMPORARY EROSION CONTROL DETAILS



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C.L. I-55
 P.I. = 45+47.47
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 D = 00°30'00"
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 L = 960.62
 P.C. = 40+66.88
 P.T. = 50+27.90



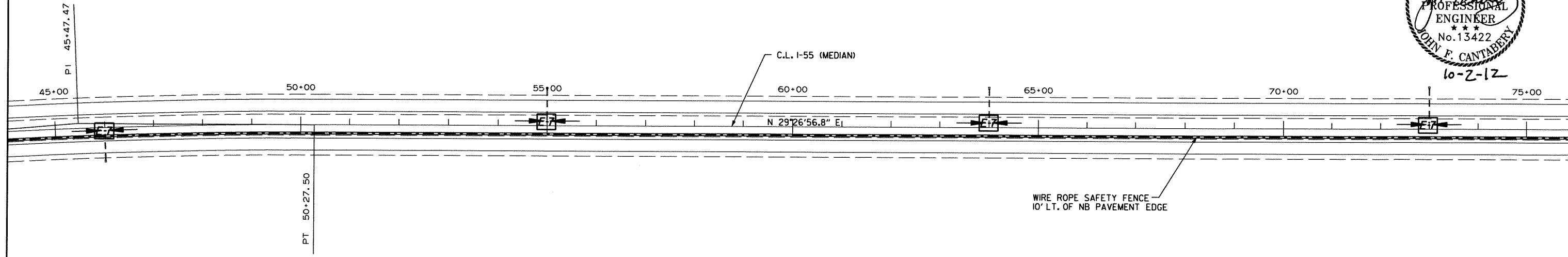
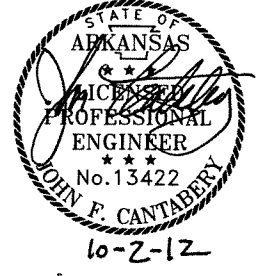
TEMPORARY EROSION CONTROL DETAILS
 STA. 580+00 - STA. 45+00

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 L = 960.62
 P.C. = 40+66.88
 P.T. = 50+27.50

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② TEMPORARY EROSION CONTROL DETAILS



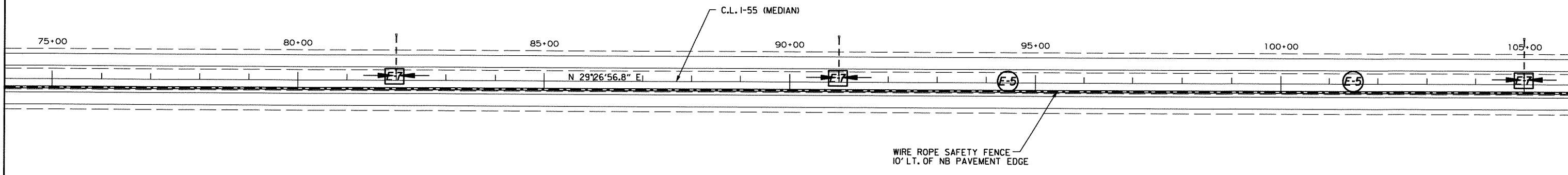
LEGEND

E-5 SAND BAG DITCH CHECK
E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

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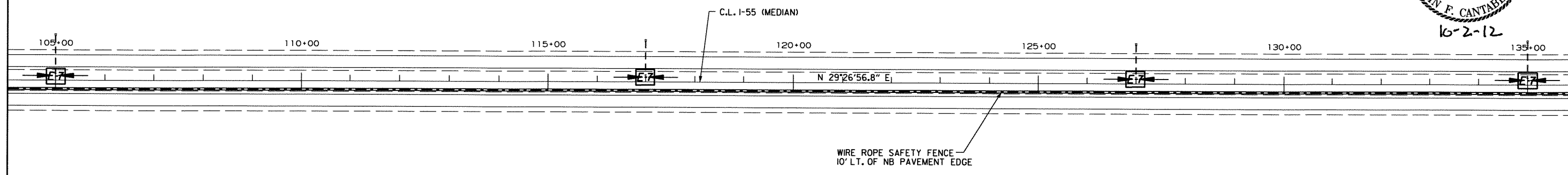


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 REVISED DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 45+00 - STA. 105+00

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| | | | | 6 | ARK. | | | | |
| JOB NO. | | | | | | | 012167 | 21 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



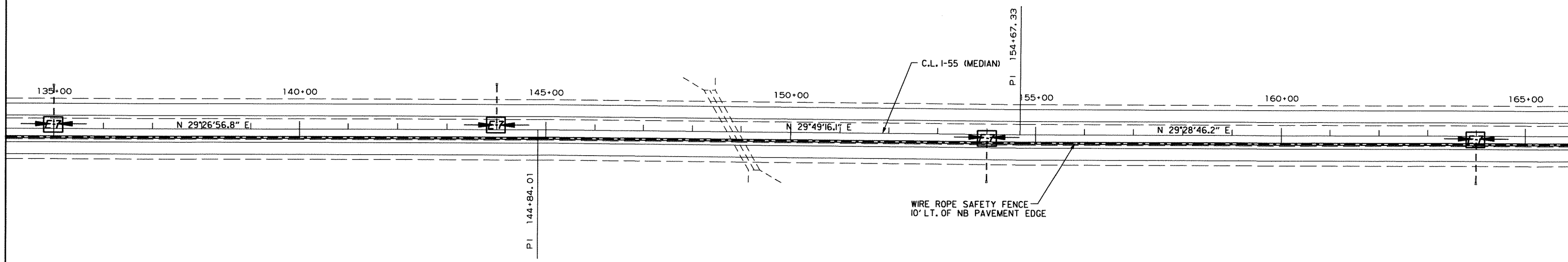
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SAND BAG DITCH CHECK
 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

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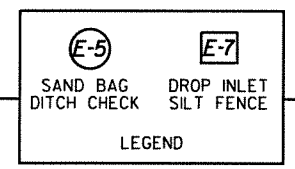
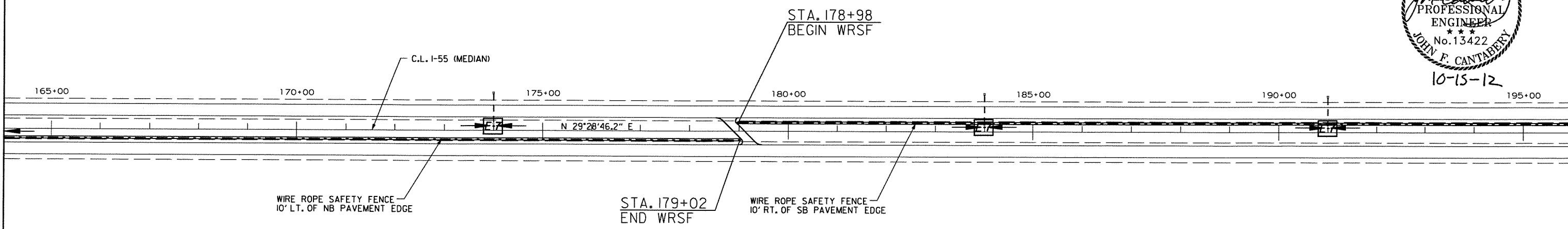


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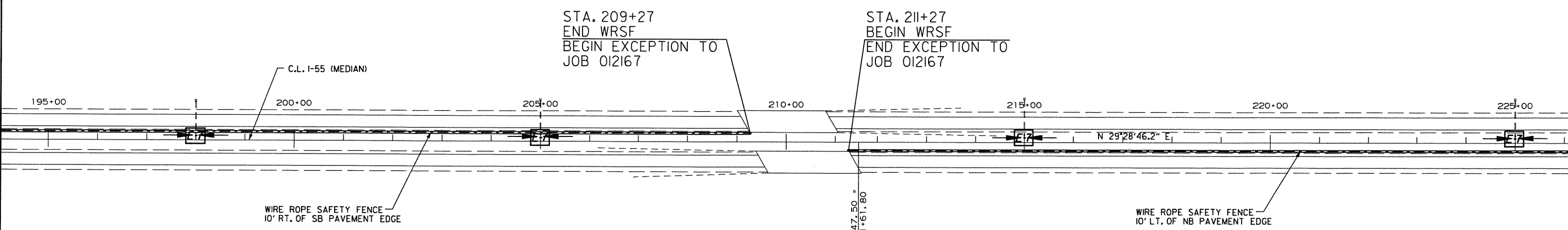
TEMPORARY EROSION CONTROL DETAILS
 STA. 105+00 - STA. 165+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 22 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



| REVISION BOX | |
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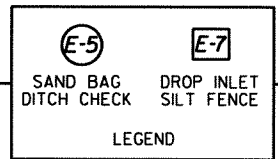
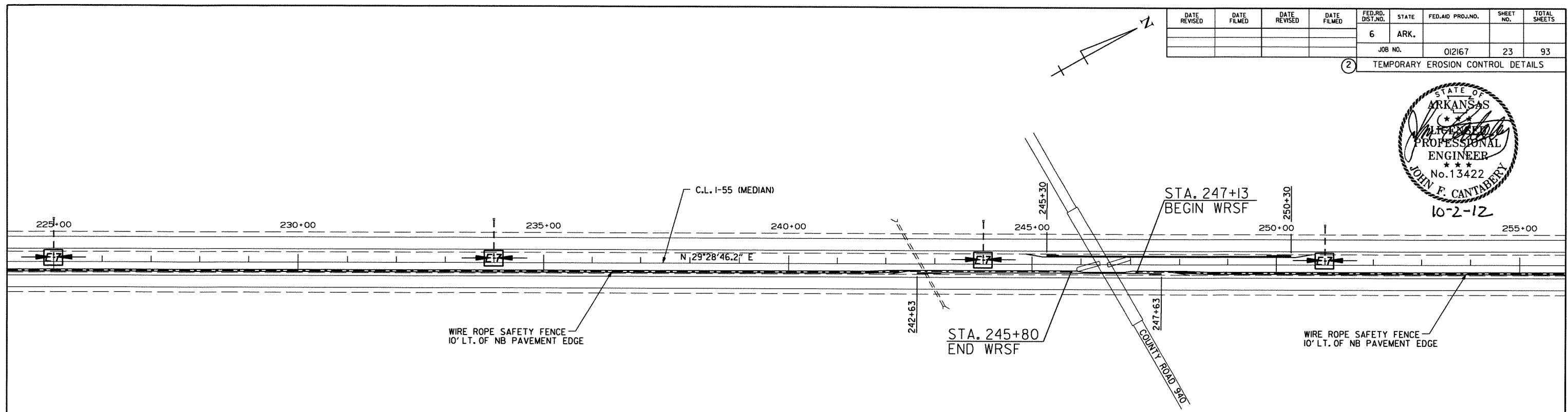
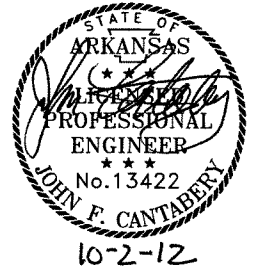
BK. 211+47.50 =
AHD. 211+61.80

DWYANDELL 10/12/2012 1:52:51 PM
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 REVISED DATE:

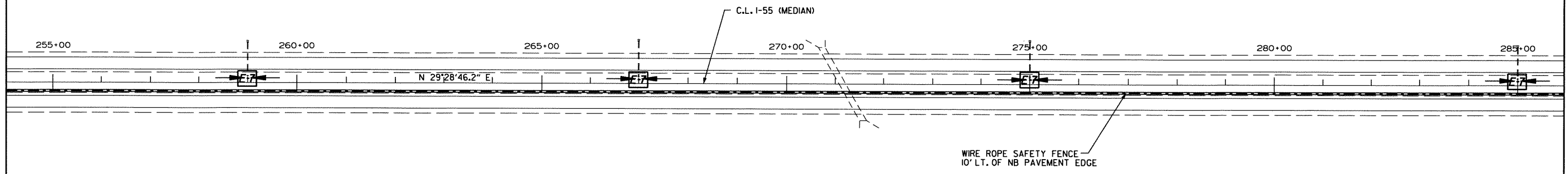
TEMPORARY EROSION CONTROL DETAILS
STA. 165+00 - STA. 225+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| JOB NO. 012167 | | | | | | | 23 | 93 |

2 TEMPORARY EROSION CONTROL DETAILS



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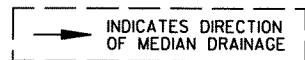
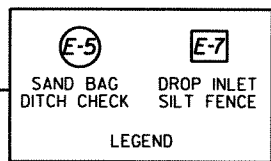
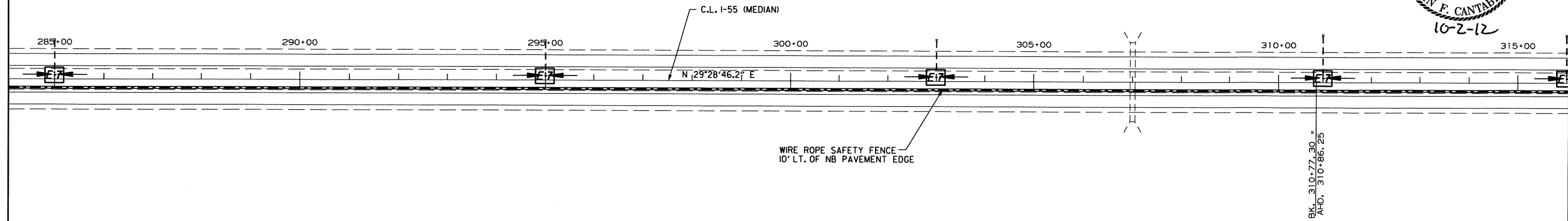


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 REVISED DATE:

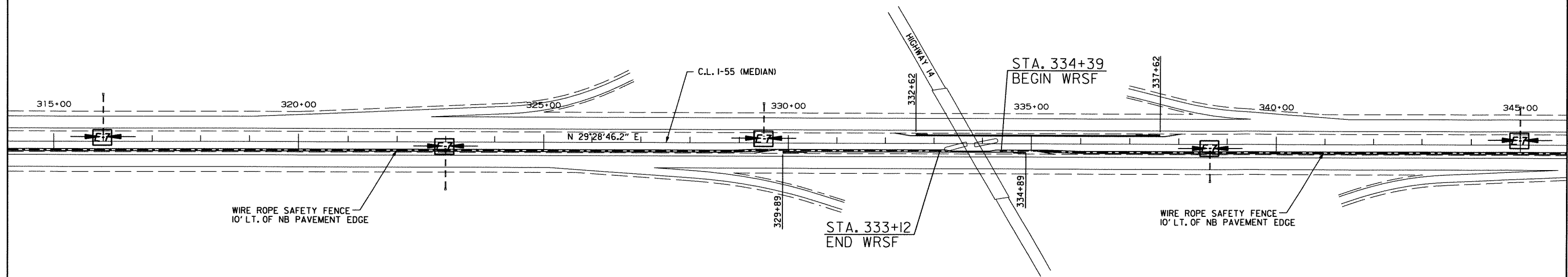
TEMPORARY EROSION CONTROL DETAILS
 STA. 225+00 - STA. 285+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | 24 | 93 | |

② TEMPORARY EROSION CONTROL DETAILS



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| DATE OF REVISION | REVISION |
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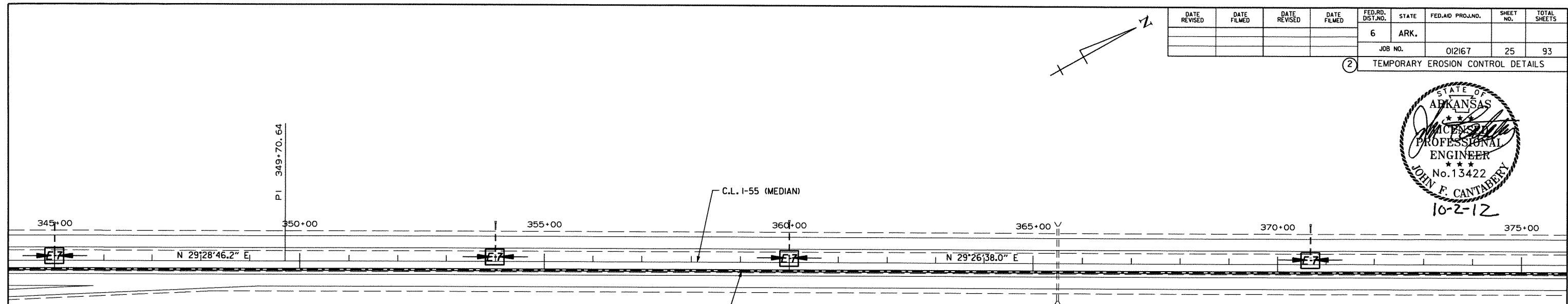
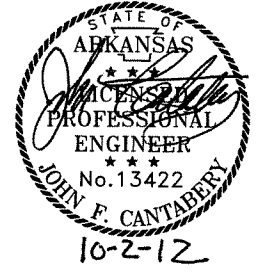


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 REVISED DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 285+00 - STA. 345+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| JOB NO. 012167 | | | | | | | 25 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



WIRE ROPE SAFETY FENCE
10' LT. OF NB PAVEMENT EDGE

LEGEND

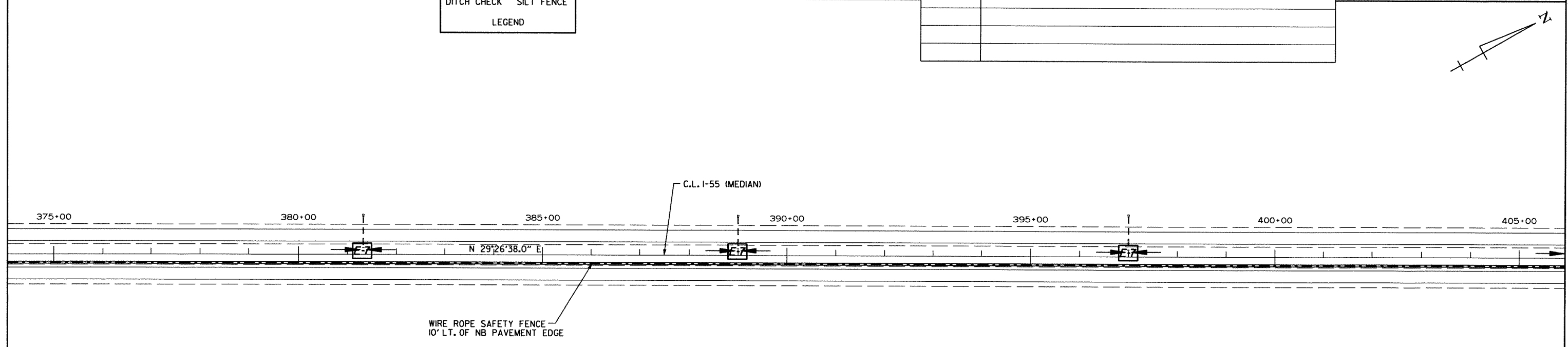
SAND BAG DITCH CHECK

DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

| DATE OF REVISION | REVISION |
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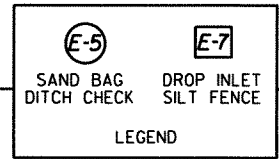
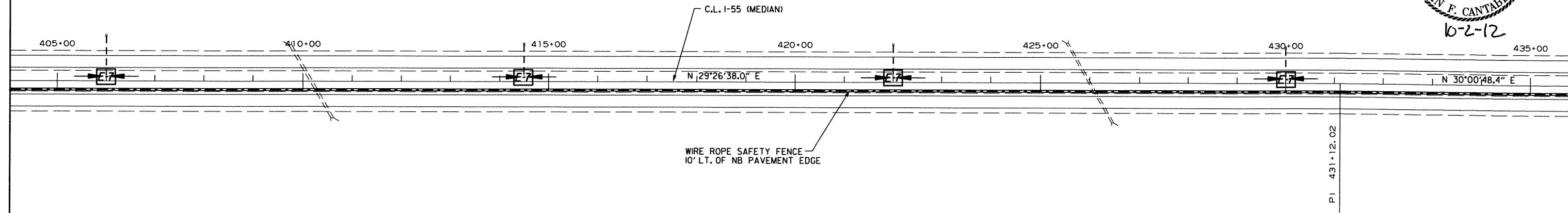
WIRE ROPE SAFETY FENCE
10' LT. OF NB PAVEMENT EDGE

RNF:trn 10/1/2012 10:02 PM
 WORKSPACE: AHTD
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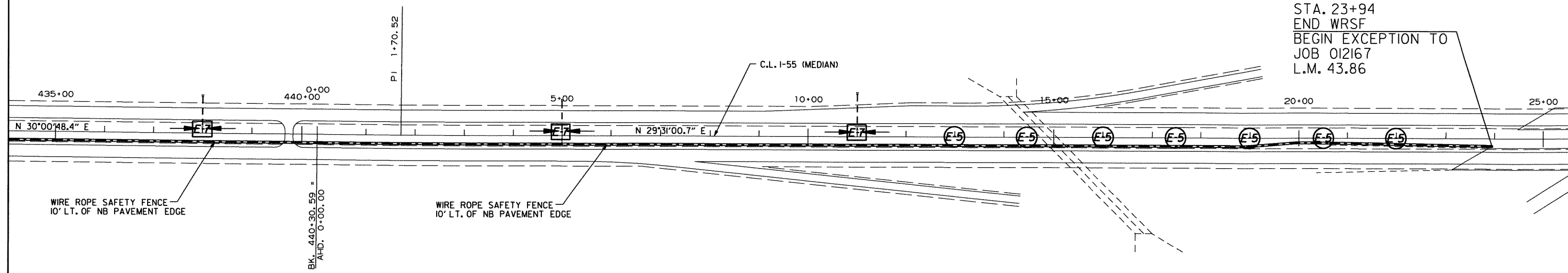
TEMPORARY EROSION CONTROL DETAILS
STA. 345+00 - STA. 405+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 26 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



| REVISION BOX | |
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| DATE OF REVISION | REVISION |
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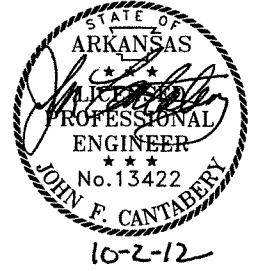
STA. 23+94
END WRSF
BEGIN EXCEPTION TO
JOB 012167
L.M. 43.86

RNF:trn 10/1/2012 11:41 PM
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 REVISED DATE:

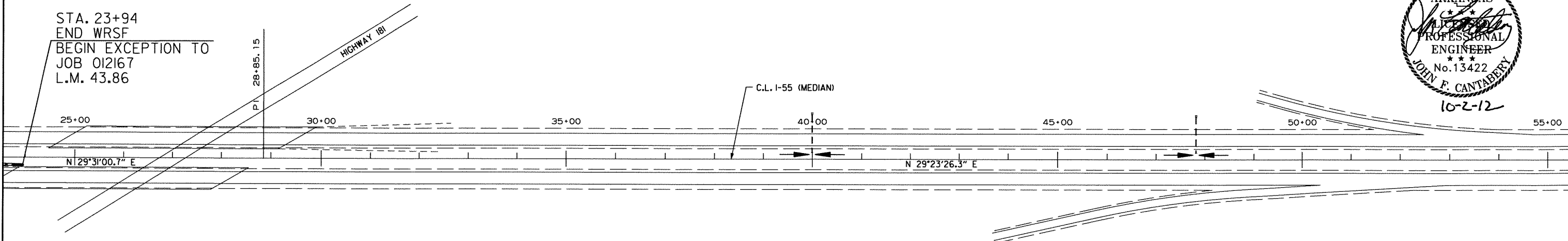
TEMPORARY EROSION CONTROL DETAILS
STA. 405+00 - STA. 25+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 27 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



STA. 23+94
END WRSF
BEGIN EXCEPTION TO
JOB 012167
L.M. 43.86

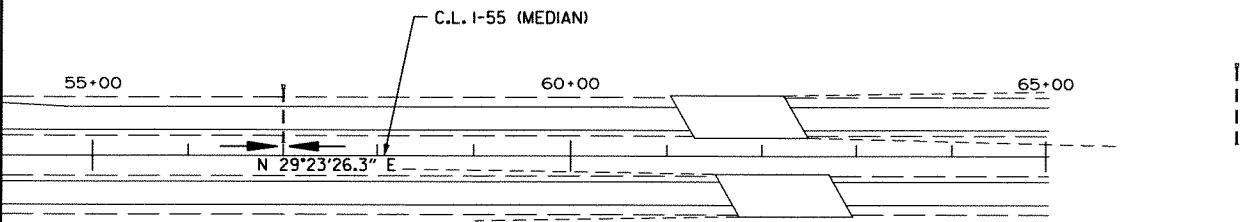


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E-5 SAND BAG DITCH CHECK
E-7 DROP INLET SILT FENCE
LEGEND

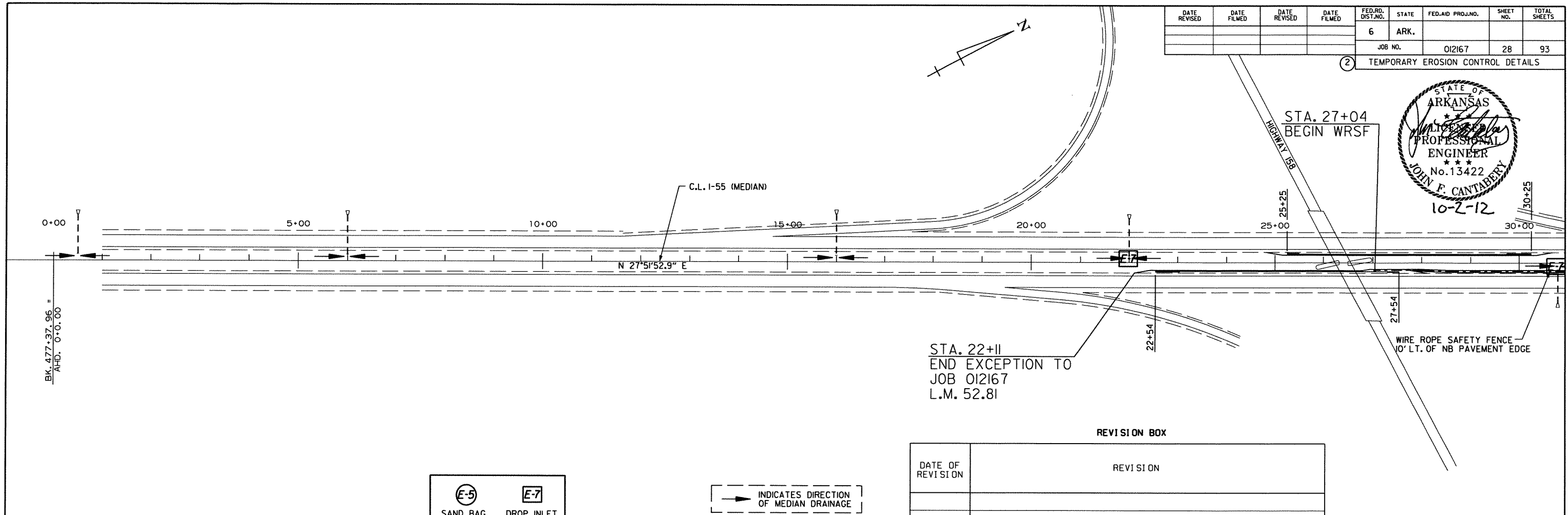
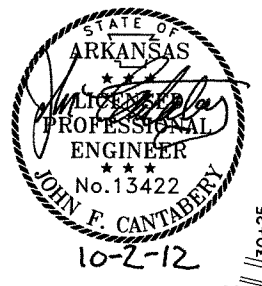
INDICATES DIRECTION OF MEDIAN DRAINAGE



RNF:trn 10/1/2012 11:21:0 PM
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 REVISED DATE:

| 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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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 28 | 93 |

2 TEMPORARY EROSION CONTROL DETAILS



STA. 22+11
END EXCEPTION TO
JOB 012167
L.M. 52.81

REVISION BOX

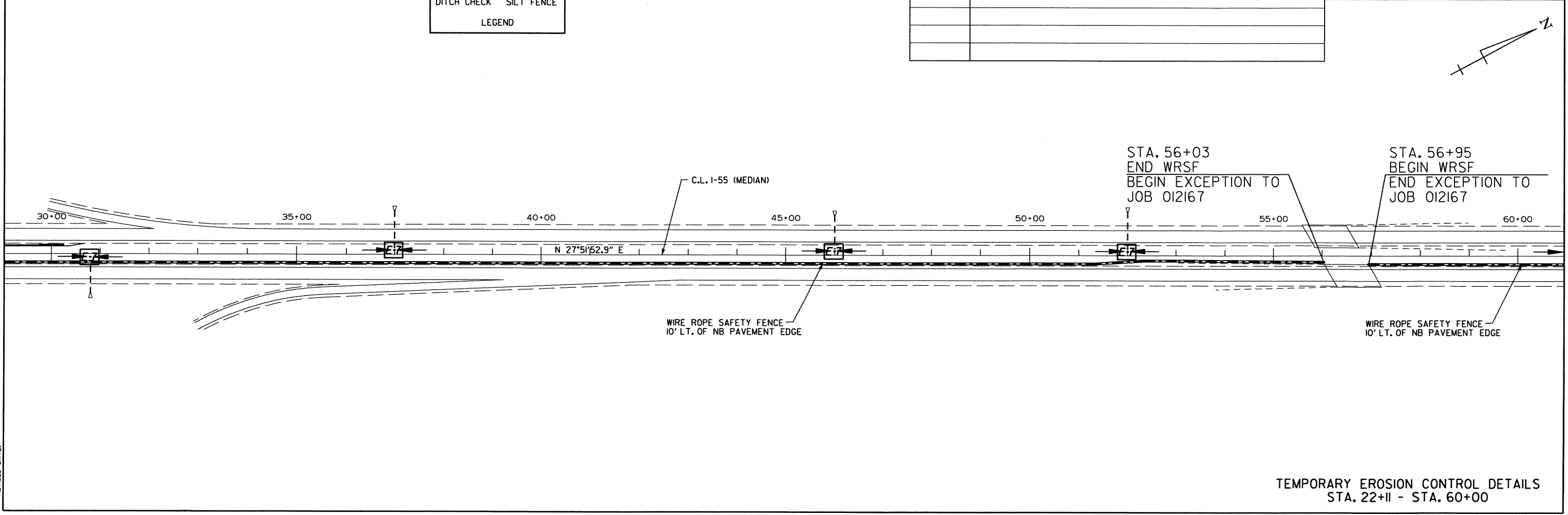
| DATE OF REVISION | REVISION |
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LEGEND

E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE



STA. 56+03
END WRSF
BEGIN EXCEPTION TO
JOB 012167

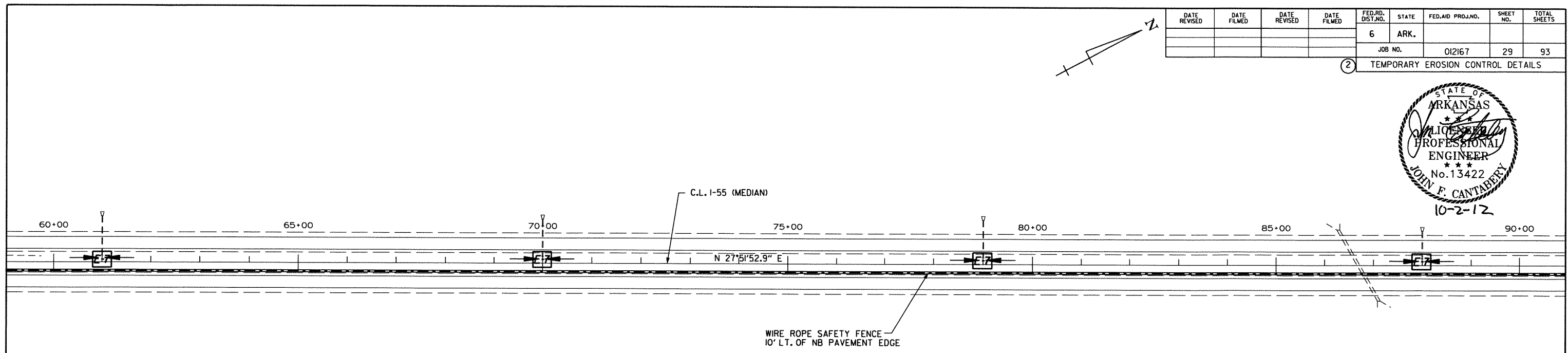
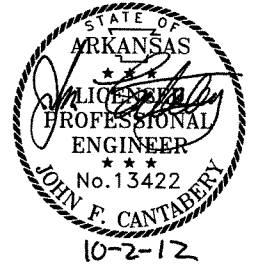
STA. 56+95
BEGIN WRSF
END EXCEPTION TO
JOB 012167

TEMPORARY EROSION CONTROL DETAILS
STA. 22+11 - STA. 60+00

RNF or tner 10/1/2012 11:24:43 PM
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| | | | | 6 | ARK. | | | |
| JOB NO. 012167 | | | | | | | 29 | 93 |

2 TEMPORARY EROSION CONTROL DETAILS



LEGEND

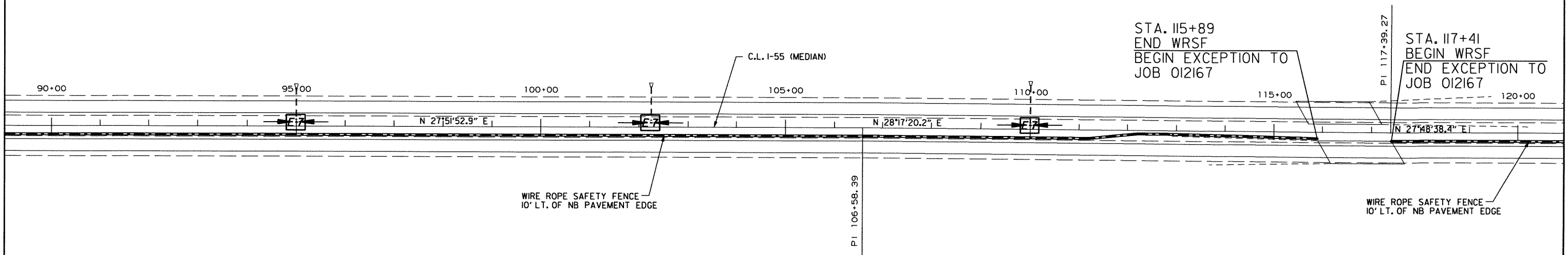
E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

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STA. 115+89
END WRSF
BEGIN EXCEPTION TO
JOB 012167

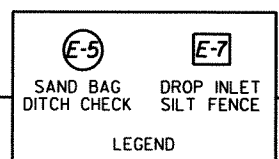
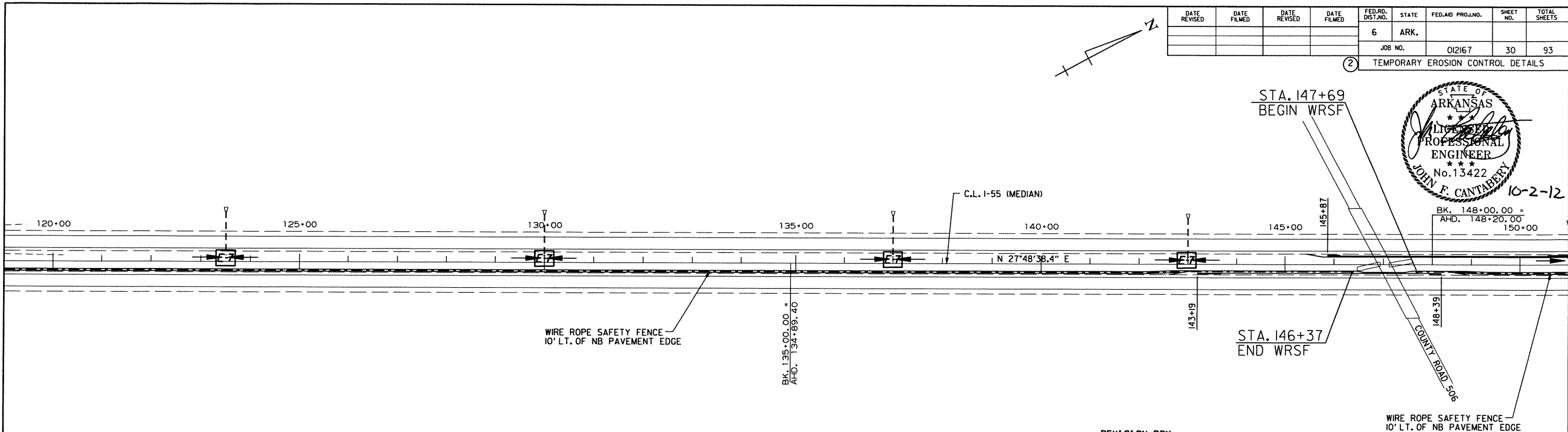
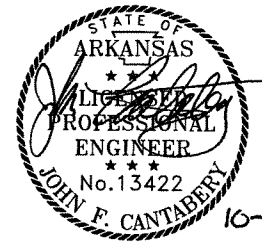
STA. 117+39.27
BEGIN WRSF
END EXCEPTION TO
JOB 012167

TEMPORARY EROSION CONTROL DETAILS
STA. 60+00 - STA. 120+00

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 REVISION DATE:

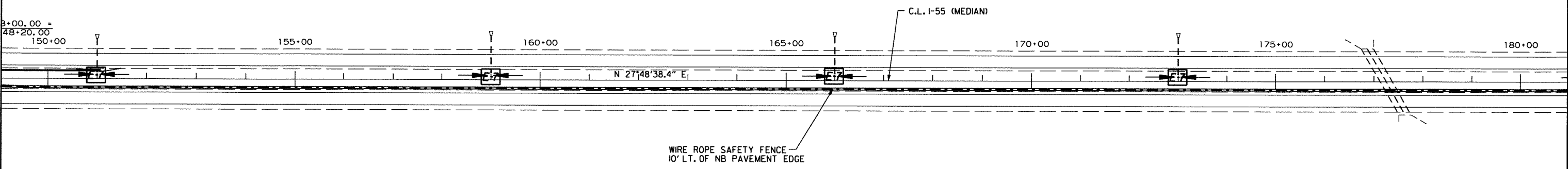
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 30 | 93 |

TEMPORARY EROSION CONTROL DETAILS



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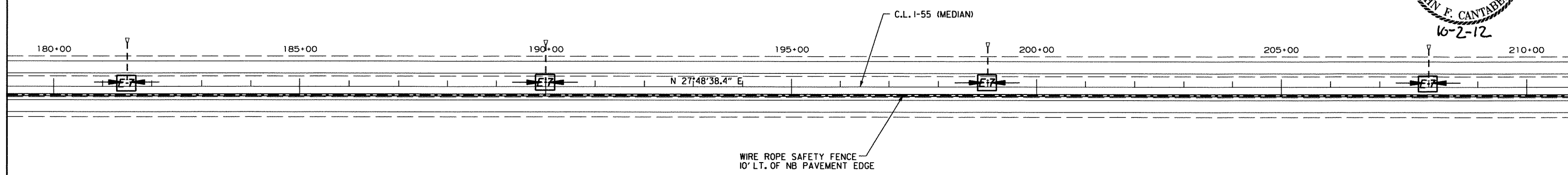
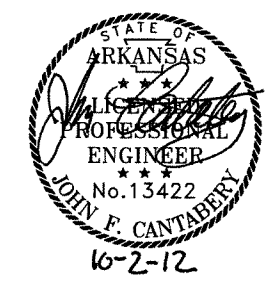


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 REVISED DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 120+00 - STA. 180+00

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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 31 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



INDICATES DIRECTION OF MEDIAN DRAINAGE

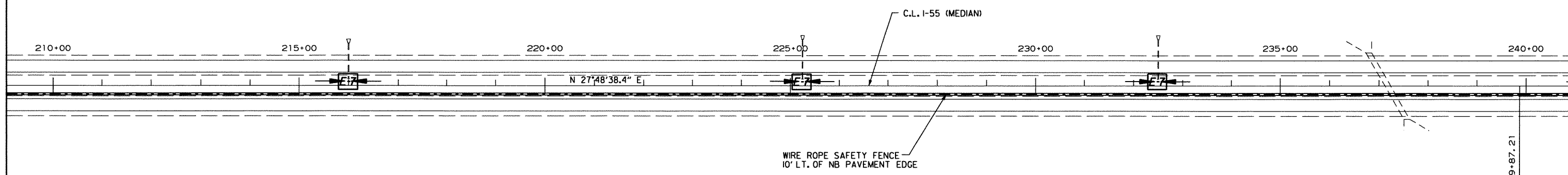
LEGEND

E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

REVISION BOX

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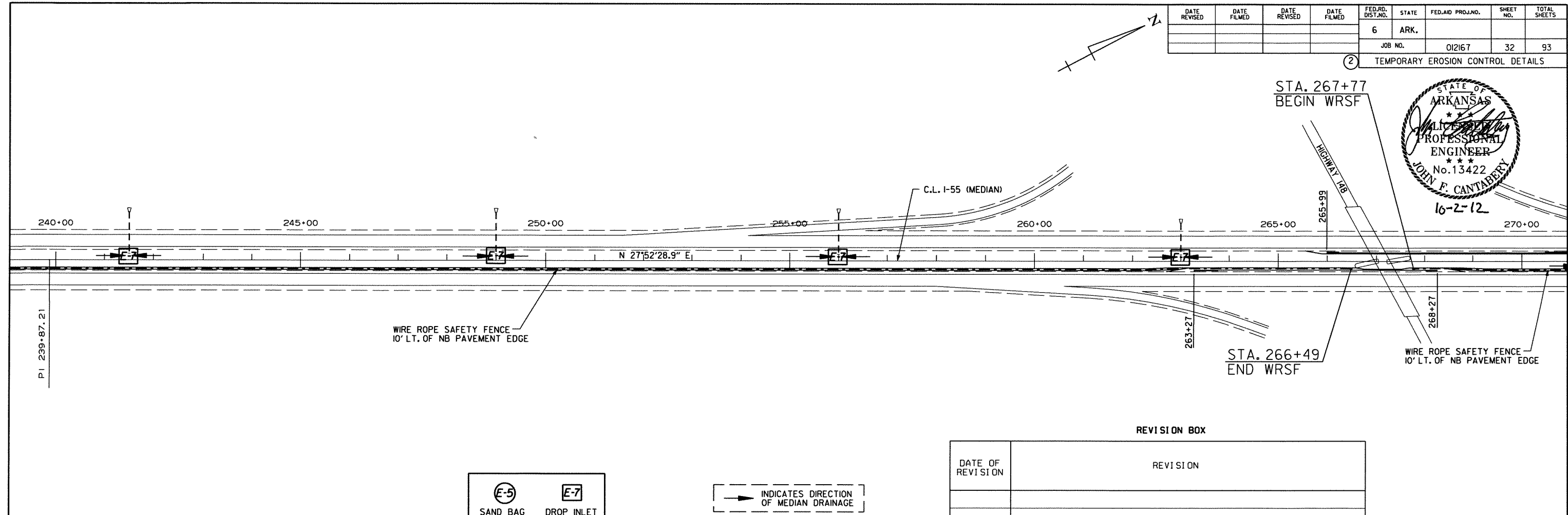
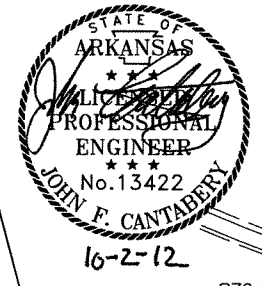
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 REVISED DATE:

P I 239+87.21

TEMPORARY EROSION CONTROL DETAILS
STA. 180+00 - STA. 240+00

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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 32 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



REVISION BOX

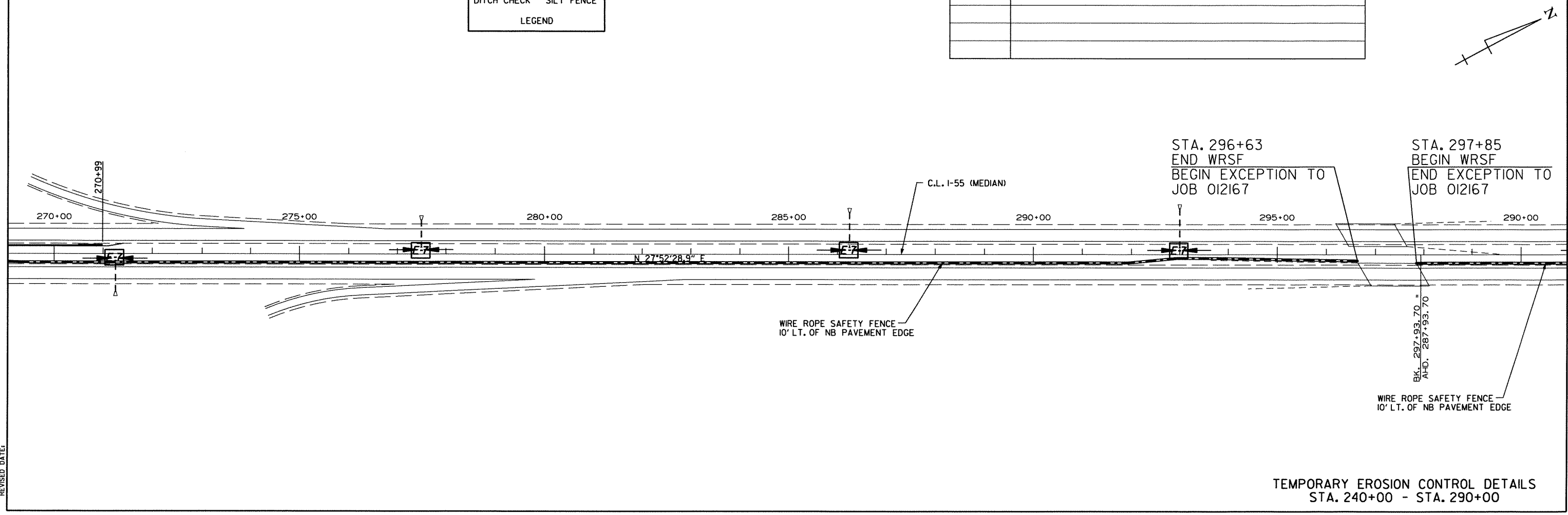
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LEGEND

E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

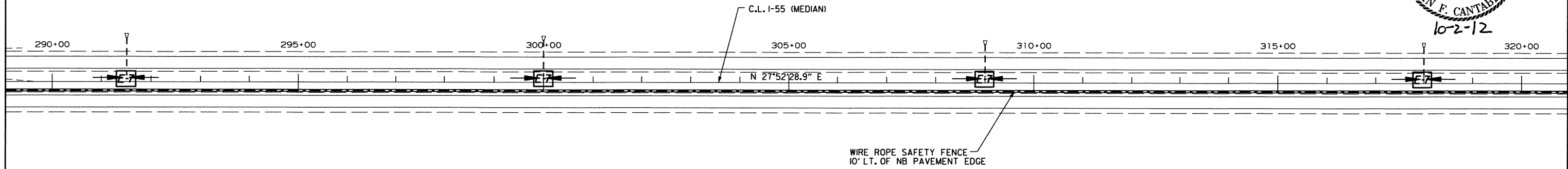


TEMPORARY EROSION CONTROL DETAILS
STA. 240+00 - STA. 290+00

RNF:trn 10/1/2012 10:45:3 PM
 WORKSPACE: AHTD
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| JOB NO. 012167 | | | | | | | 33 | 93 |

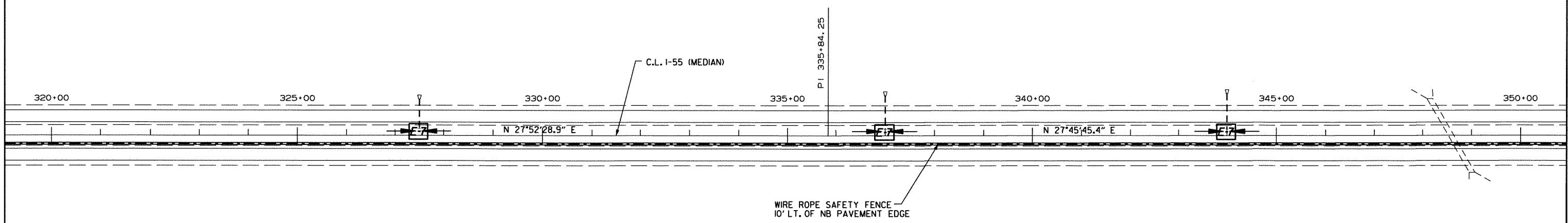
② TEMPORARY EROSION CONTROL DETAILS



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| E-5 | E-7 |
| SAND BAG DITCH CHECK | DROP INLET SILT FENCE |
| LEGEND | |

INDICATES DIRECTION OF MEDIAN DRAINAGE

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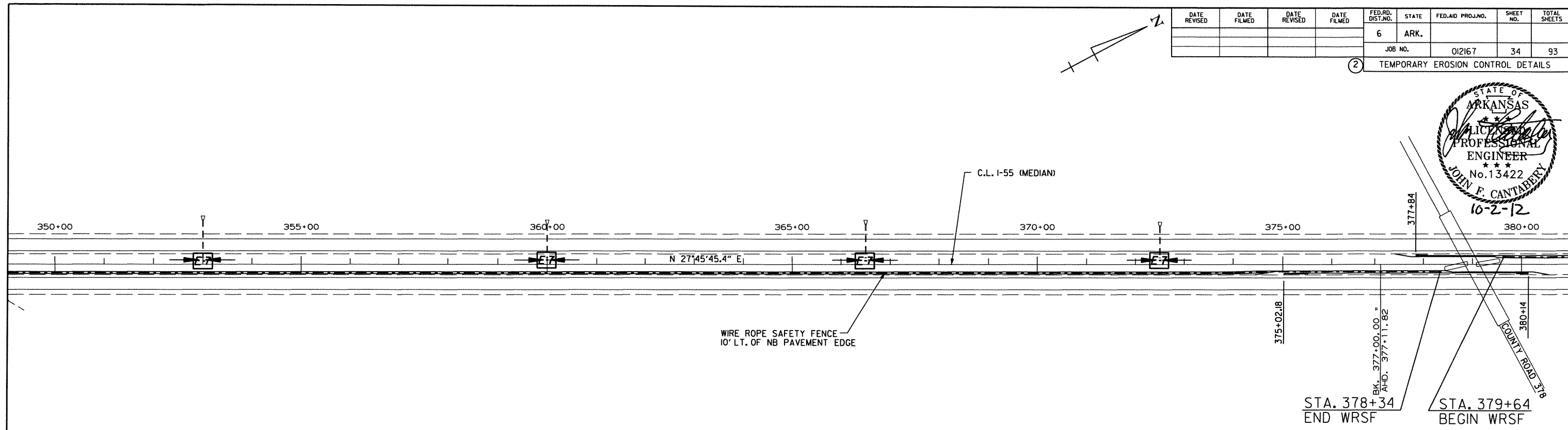
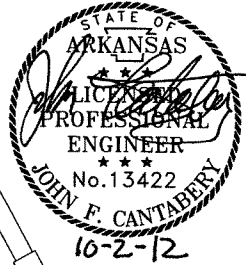


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 REVISION DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 290+00 - STA. 350+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| JOB NO. 012167 | | | | | | | 34 | 93 |

② TEMPORARY EROSION CONTROL DETAILS

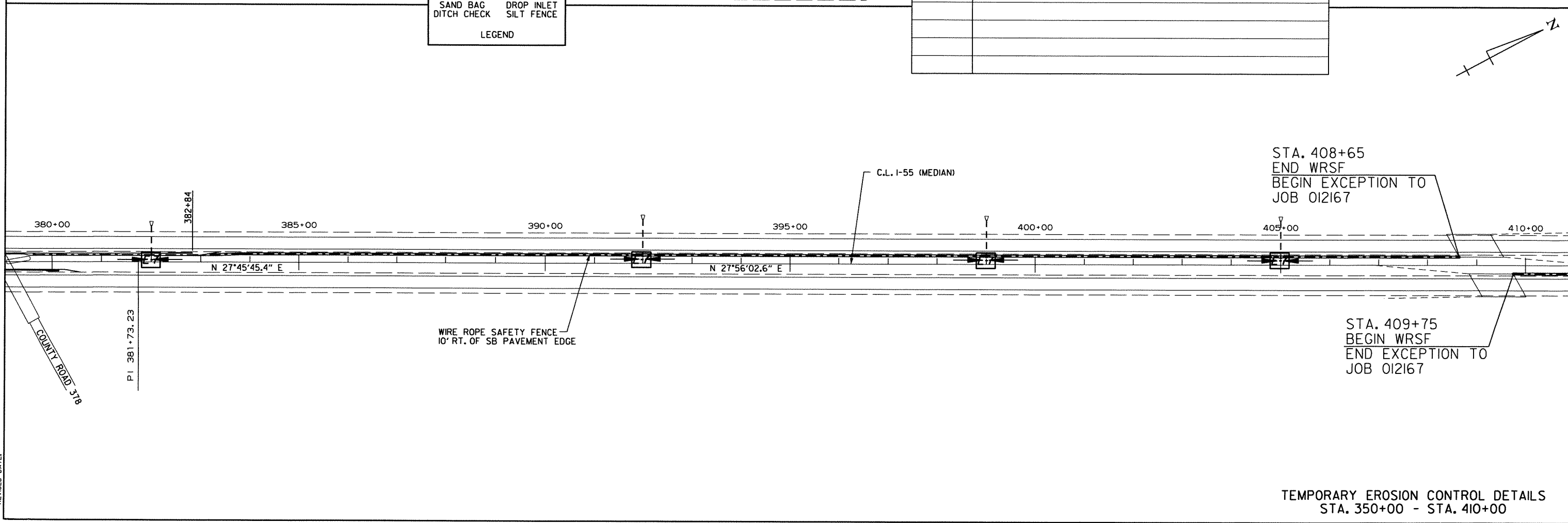


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| SAND BAG DITCH CHECK | DROP INLET SILTY FENCE |
| LEGEND | |

INDICATES DIRECTION OF MEDIAN DRAINAGE

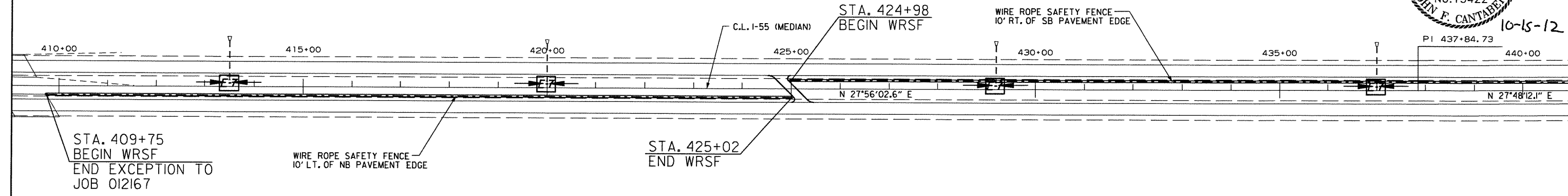


TEMPORARY EROSION CONTROL DETAILS
STA. 350+00 - STA. 410+00

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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | 35 | 93 | |

② TEMPORARY EROSION CONTROL DETAILS



STA. 409+75
BEGIN WRSF
END EXCEPTION TO
JOB 012167

WIRE ROPE SAFETY FENCE
10' LT. OF NB PAVEMENT EDGE

STA. 425+02
END WRSF

STA. 424+98
BEGIN WRSF

WIRE ROPE SAFETY FENCE
10' RT. OF SB PAVEMENT EDGE

PI 437+84.73

10-15-12

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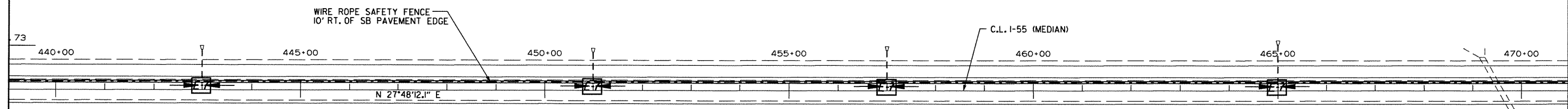
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LEGEND

E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE



WIRE ROPE SAFETY FENCE
10' RT. OF SB PAVEMENT EDGE

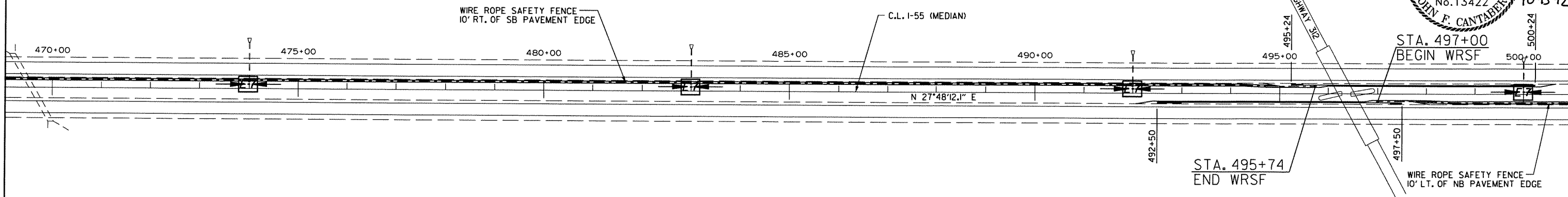
C.L. I-55 (MEDIAN)

DWYANDELL 10/12/2012 1:53:32 PM
 WORKSPACE: AHTD
 \\GLTDC01\ITProjects\2011\017702 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 012167 - By theville\BB.EC.27.dgn
 REVISION DATE:

TEMPORARY EROSION CONTROL DETAILS
STA. 410+00 - STA. 470+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. | 012167 | | 36 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

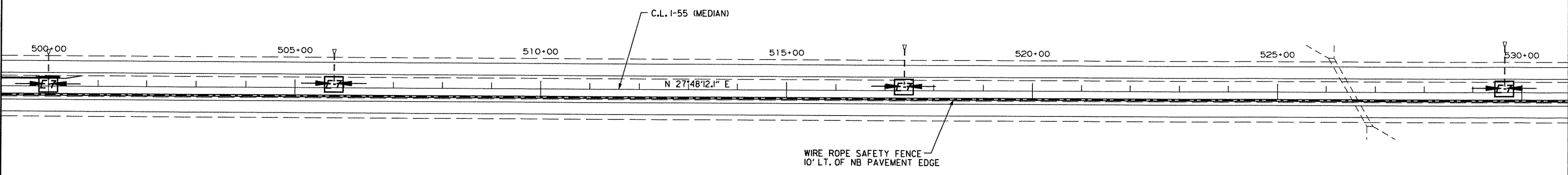
E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

| DATE OF REVISION | REVISION |
|------------------|----------|
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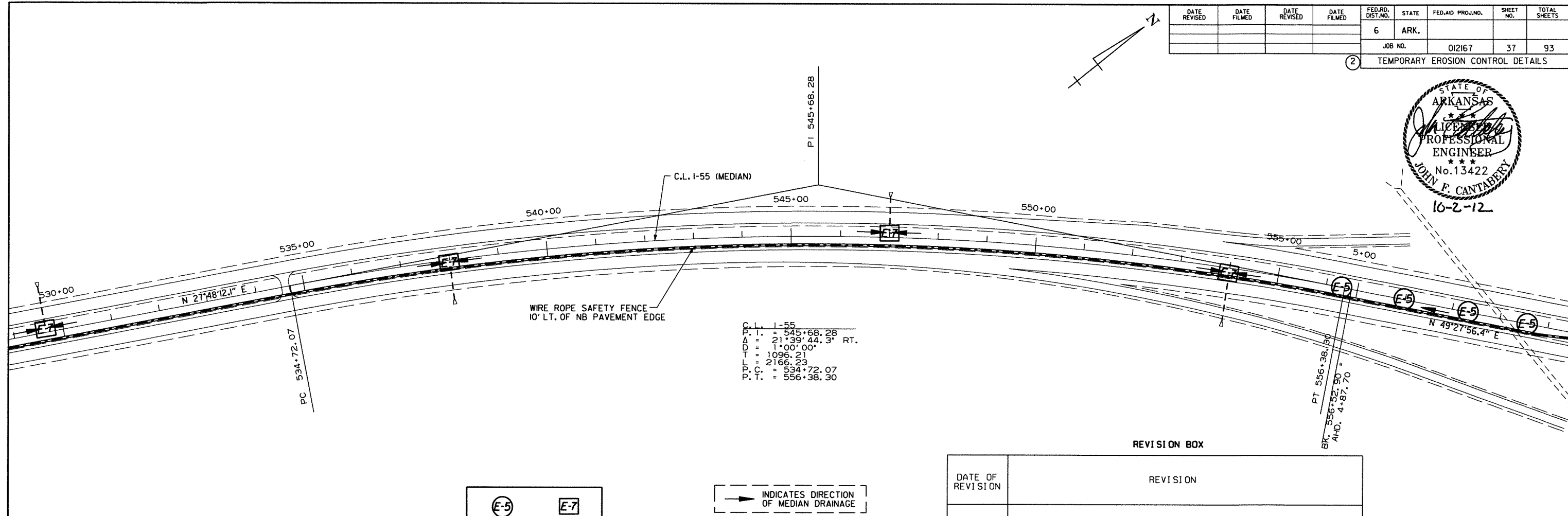
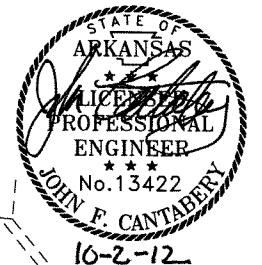


DWYANDELL 10/12/2012 1:53:33 PM
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 REVISION DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 470+00 - STA. 530+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. | | 012167 | 37 | 93 |

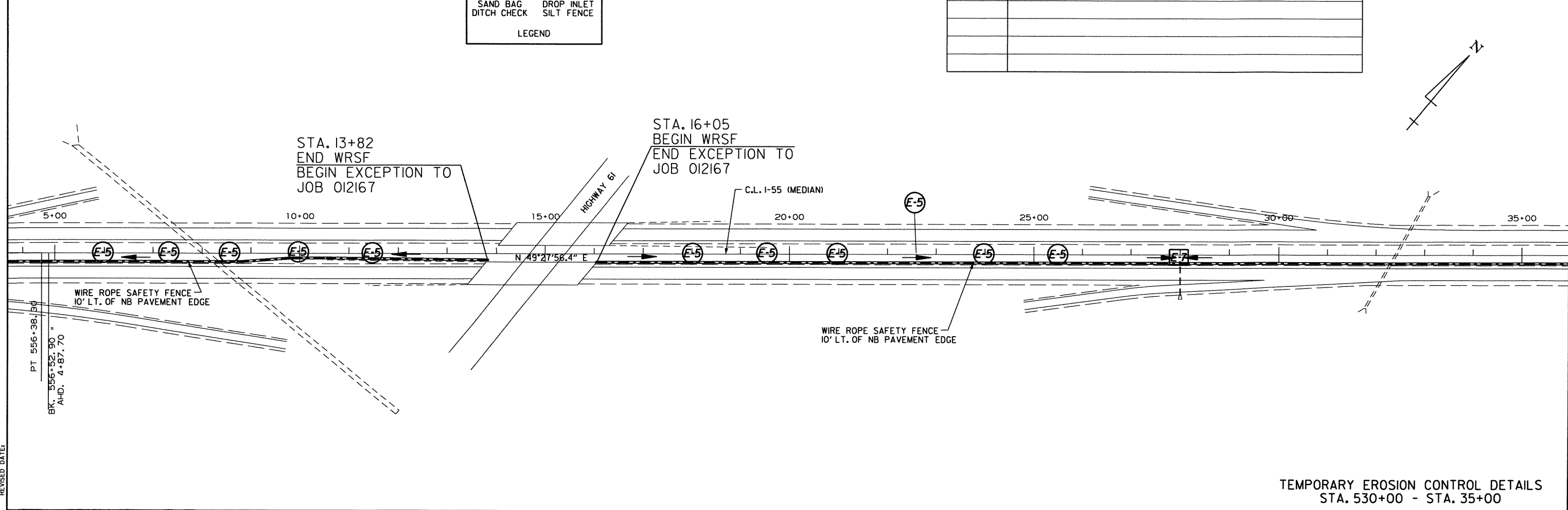
② TEMPORARY EROSION CONTROL DETAILS



| | |
|-------------------------|--------------------------|
| E-5 | E-7 |
| SAND BAG DITCH CHECK | DROP INLET SILT FENCE |
| LEGEND | |

INDICATES DIRECTION OF MEDIAN DRAINAGE

| REVISION BOX | |
|------------------|----------|
| DATE OF REVISION | REVISION |
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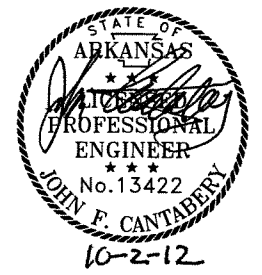


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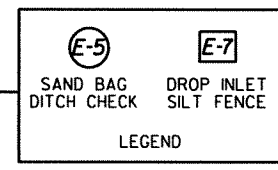
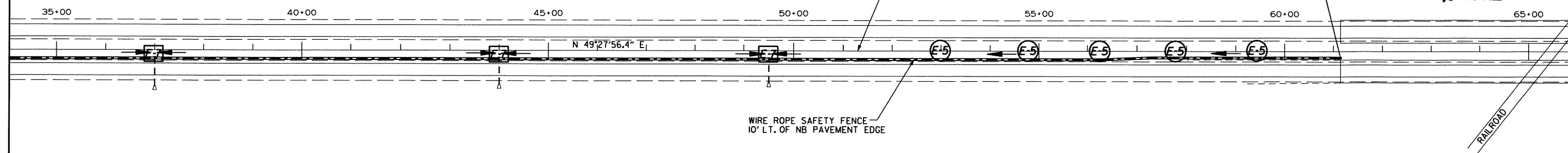
TEMPORARY EROSION CONTROL DETAILS
STA. 530+00 - STA. 35+00

| 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. | 012167 | 38 | 93 | |

② TEMPORARY EROSION CONTROL DETAILS

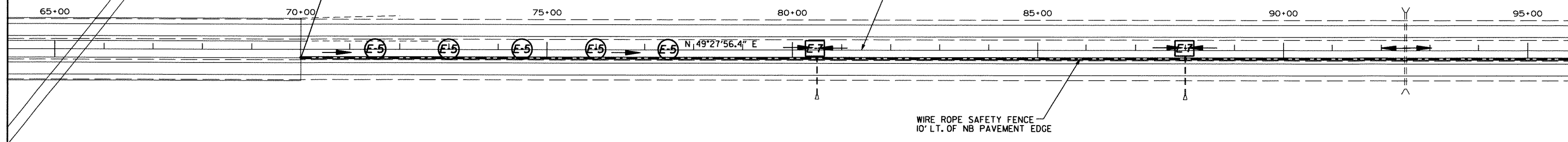


STA. 61+14
END WRSF
BEGIN EXCEPTION TO
JOB 012167



| REVISION BOX | |
|------------------|----------|
| DATE OF REVISION | REVISION |
| | |
| | |
| | |
| | |

STA. 70+01
BEGIN WRSF
END EXCEPTION TO
JOB 012167

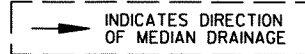
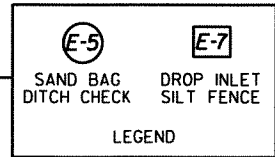
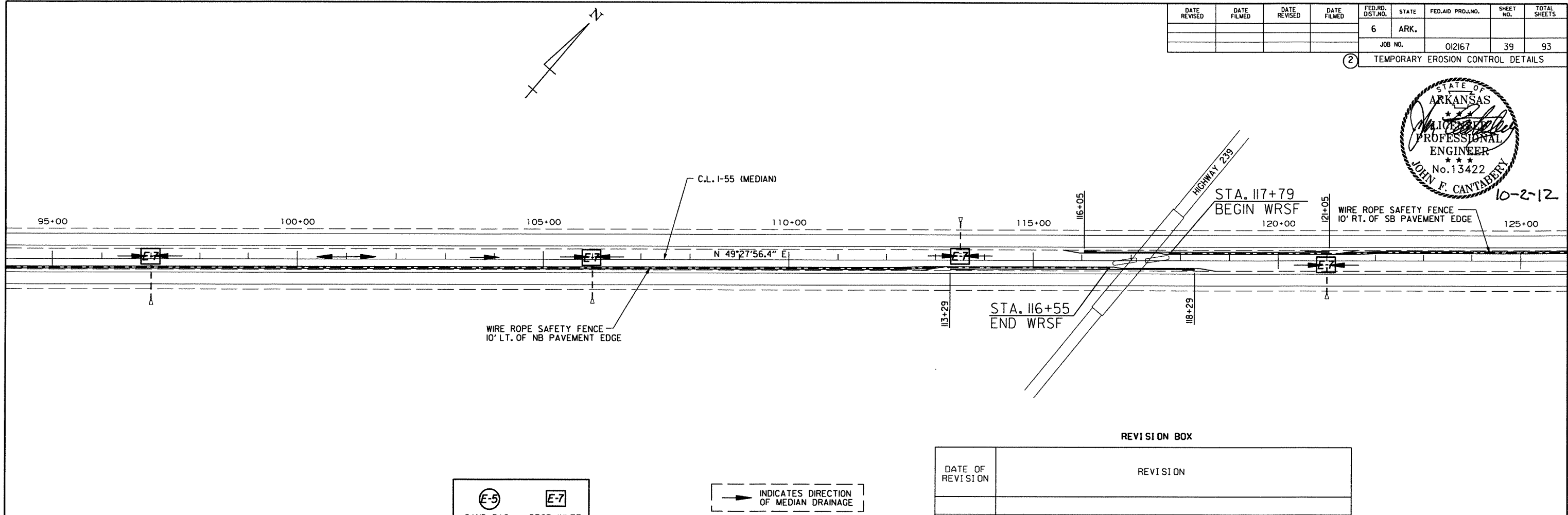
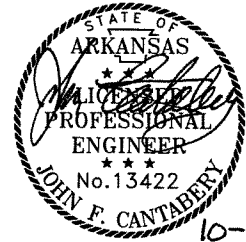


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 L:\2011\1017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_EC_30.dgn
 REVISED DATE:

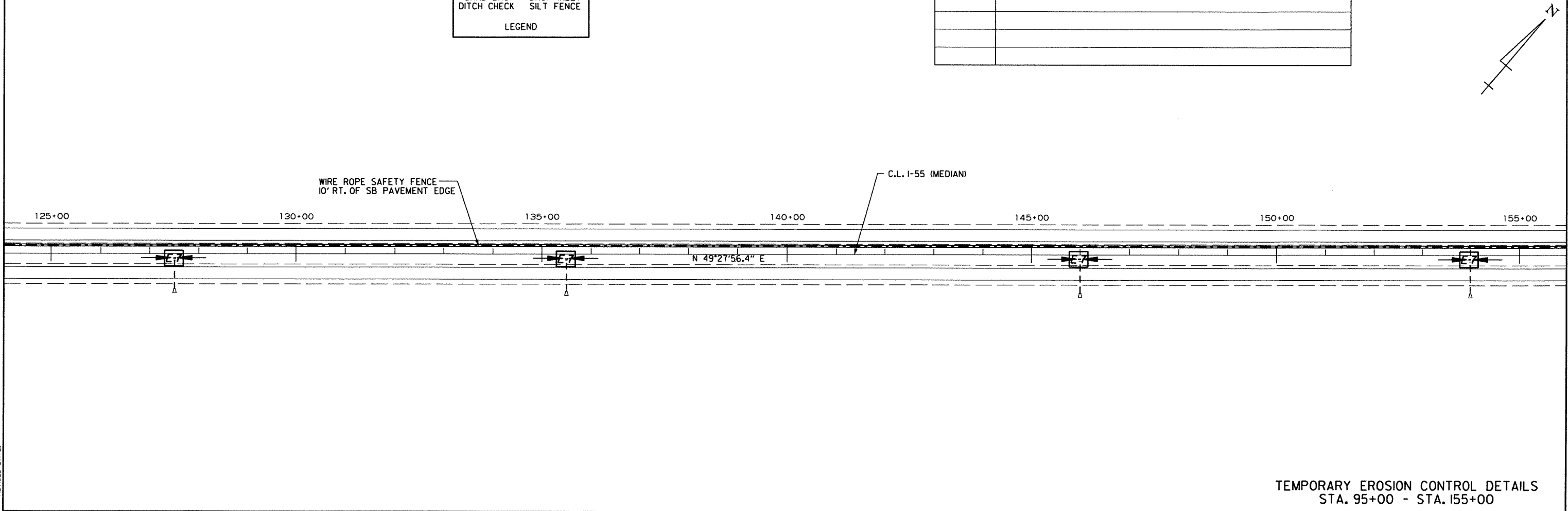
TEMPORARY EROSION CONTROL DETAILS
STA. 35+00 - STA. 95+00

| 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. | 012167 | | 39 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



| REVISION BOX | |
|------------------|----------|
| DATE OF REVISION | REVISION |
| | |
| | |
| | |
| | |

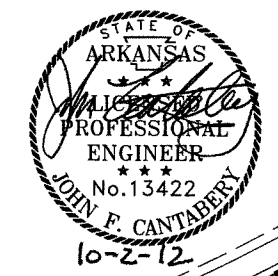


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 REVISED DATE:

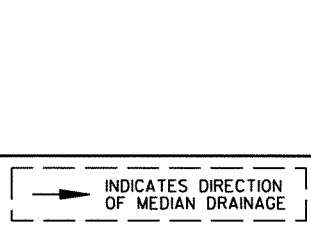
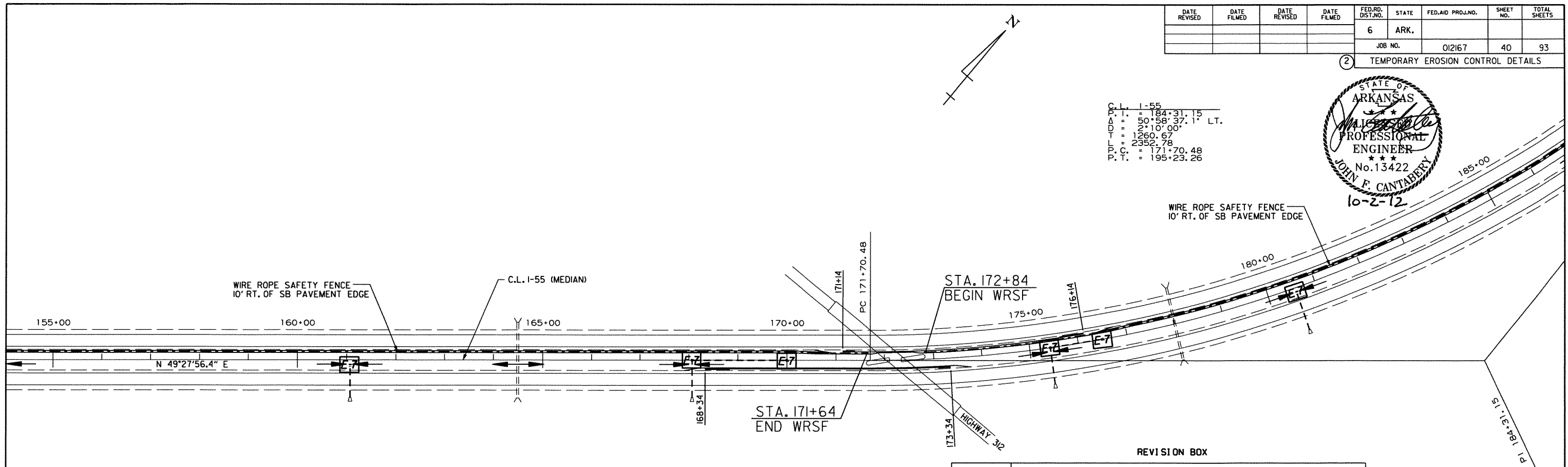
TEMPORARY EROSION CONTROL DETAILS
 STA. 95+00 - STA. 155+00

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | 40 | 93 |
| | | | | JOB NO. | | 012167 | | |

(2) TEMPORARY EROSION CONTROL DETAILS

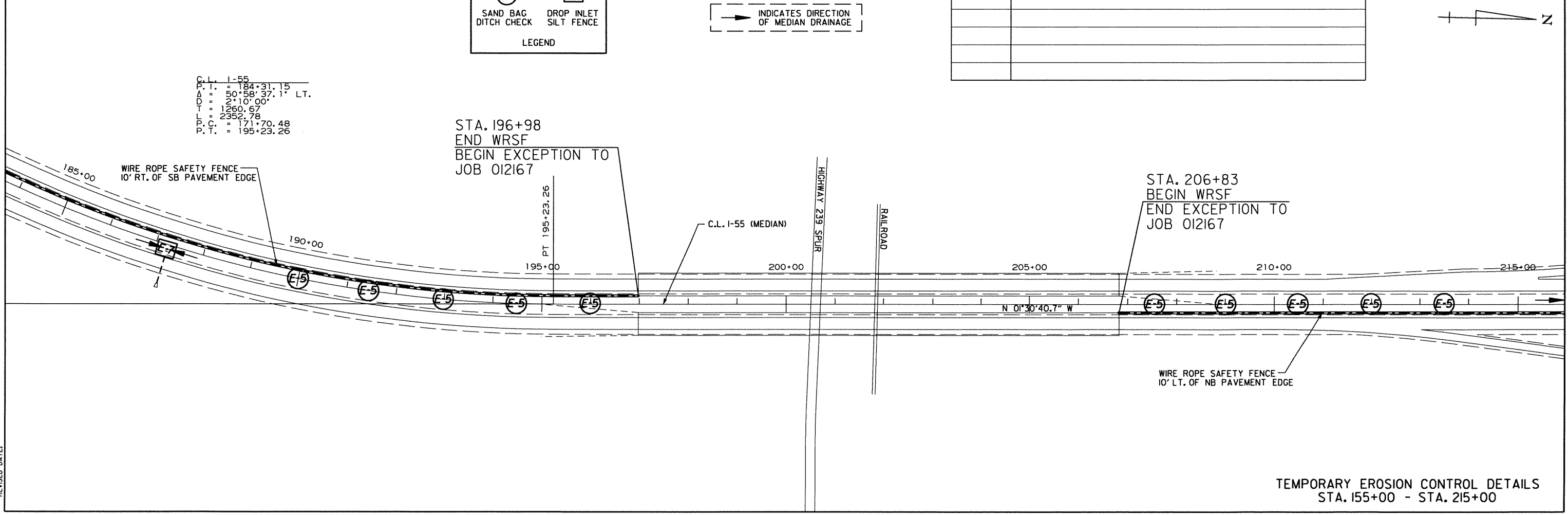


C.L. I-55
 P.I. = 184+31.15
 Δ = 50°58'37.1" LT.
 D = 2°10'00"
 T = 1260.67
 L = 2352.78
 P.C. = 171+70.48
 P.T. = 195+23.26



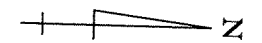
| DATE OF REVISION | REVISION |
|------------------|----------|
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C.L. I-55
 P.I. = 184+31.15
 Δ = 50°58'37.1" LT.
 D = 2°10'00"
 T = 1260.67
 L = 2352.78
 P.C. = 171+70.48
 P.T. = 195+23.26



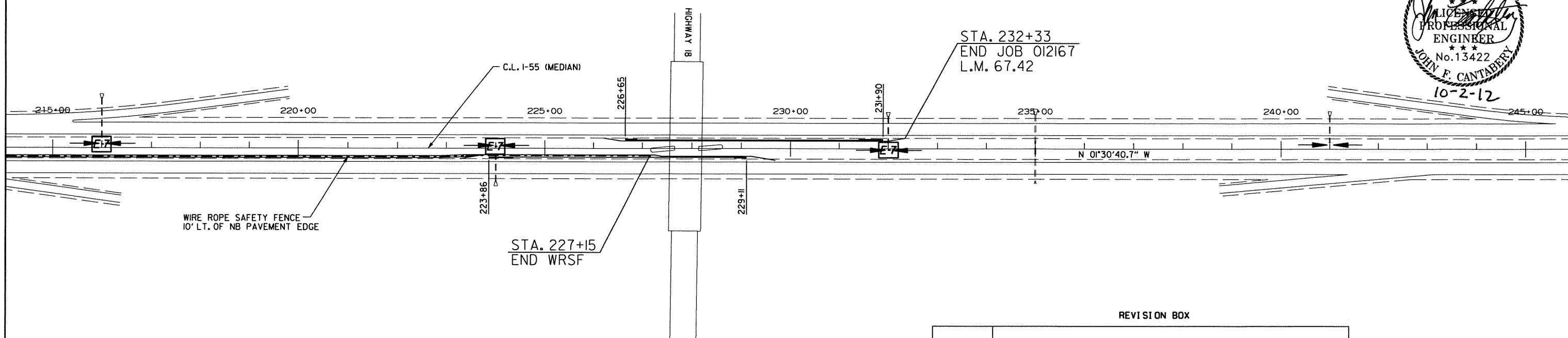
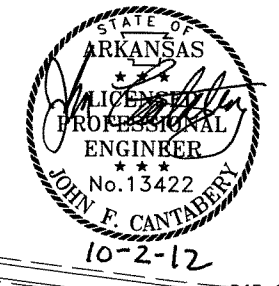
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 WORKSPACE: AHTD
 L:\2011\101702 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 012167 - Blytheville\BB_EC_32.dgn
 REVISION DATE:

TEMPORARY EROSION CONTROL DETAILS
 STA. 155+00 - STA. 215+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. | | 012167 | 41 | 93 |

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

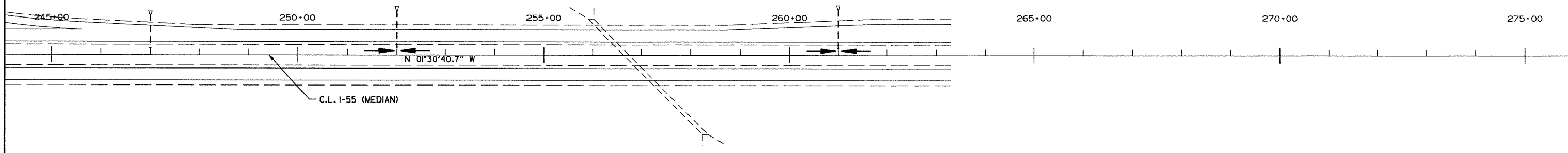
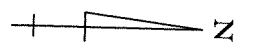
E-5 SAND BAG DITCH CHECK

E-7 DROP INLET SILT FENCE

INDICATES DIRECTION OF MEDIAN DRAINAGE

REVISION BOX

| DATE OF REVISION | REVISION |
|------------------|----------|
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RNF or tnr 10/1/2012 1:20:04 PM
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 L:\2011\101702 - AHTD Cable Median Barriers - TO 0013\Drawings\08 02167 - Blytheville\BB_EC_33.dgn
 REVISED DATE:

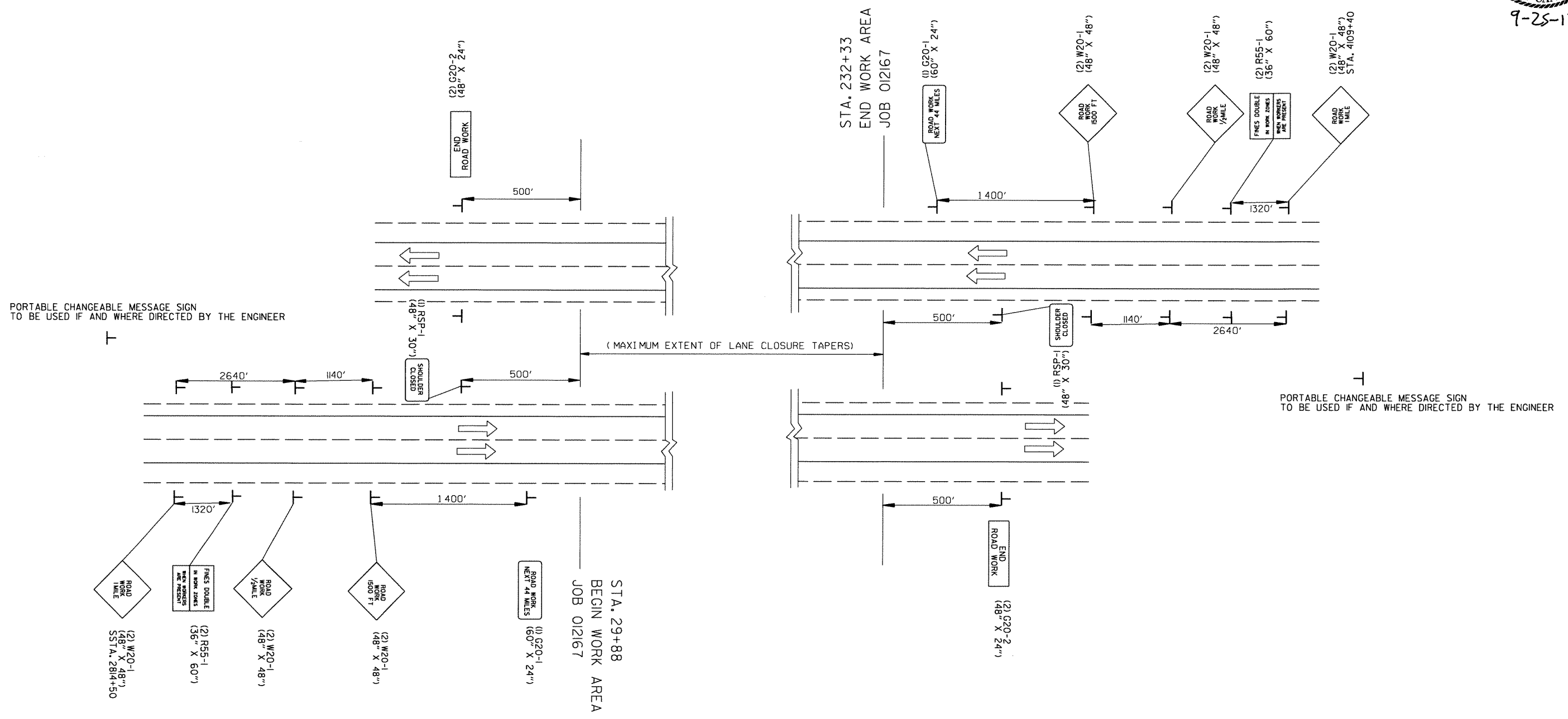
TEMPORARY EROSION CONTROL DETAILS
 STA. 215+00 - STA. 232+33

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | JOB NO. 012167 | 42 | 93 |

2 MAINTENANCE OF TRAFFIC



NOTE :
W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS
TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS
AS WORKING AREA SHIFTS.



NOTE :
W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS
TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS
AS WORKING AREA SHIFTS.

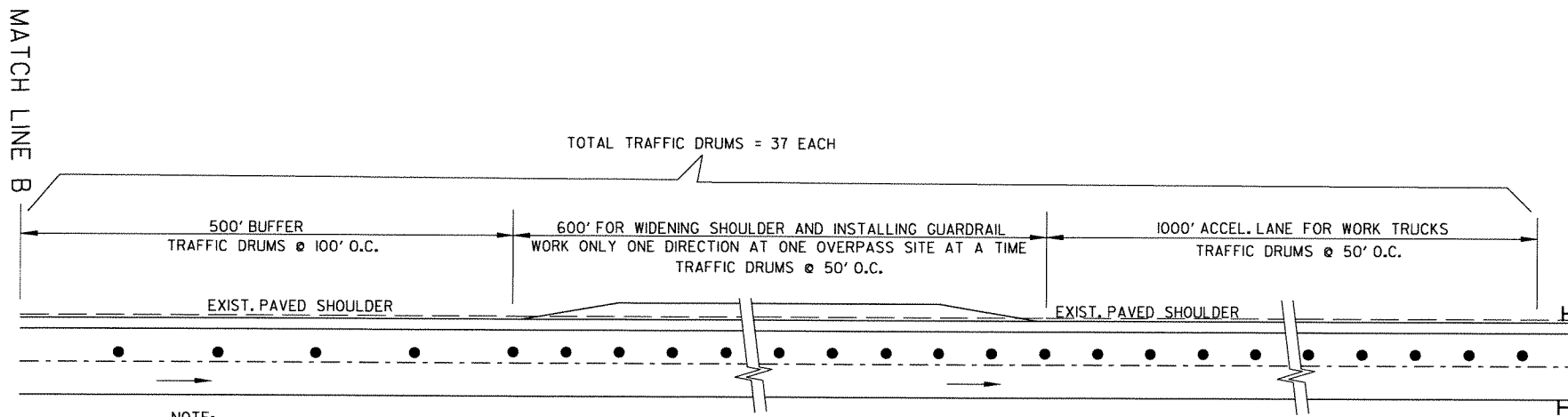
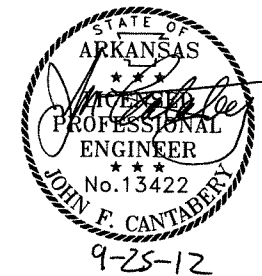
ADVANCE SIGNS AT BEGINNING AND END OF JOB
ALL STAGES

MAINTENANCE OF TRAFFIC
ADVANCE SIGNS AT JOB ENDS

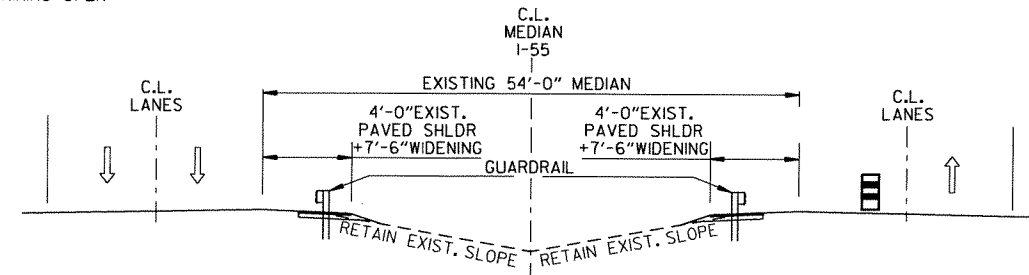
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 \\GLTDCON\ITPrj\Projects\2011\011702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_MOT_SD_01.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 44 | 93 |

② MAINTENANCE OF TRAFFIC

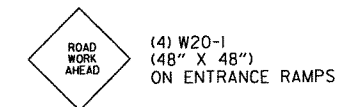


NOTE: MAINTAIN MINIMUM 12' LANE WIDTH ON LANE REMAINING OPEN

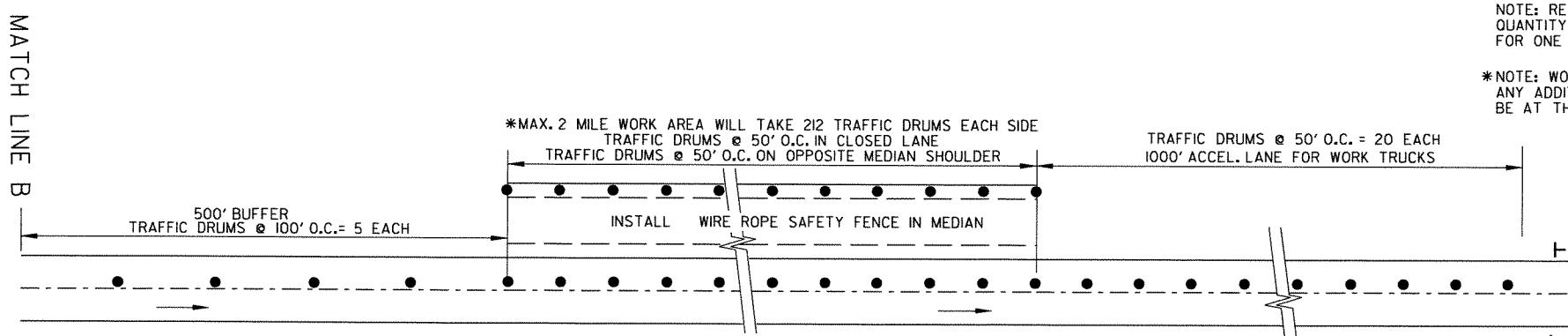


| | |
|-------------|----|
| TRUCKS | 65 |
| SPEED LIMIT | 70 |

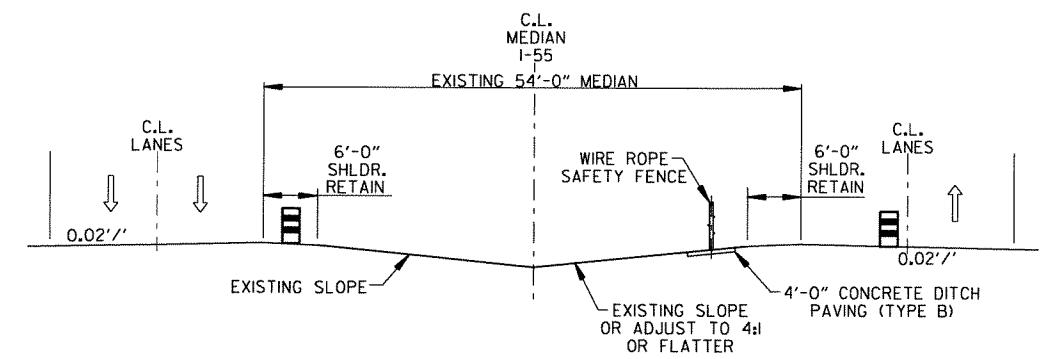
(2) R2-1 (48" X 60")
(2) R2-2 (48" X 48")



MOVABLE WORK ZONE FOR GUARDRAIL INSTALLATION



NOTE: MAINTAIN MINIMUM 12' LANE WIDTH ON LANE REMAINING OPEN



| | |
|-------------|----|
| TRUCKS | 65 |
| SPEED LIMIT | 70 |

(2) R2-1 (48" X 60")
(2) R2-2 (48" X 48")

NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

*NOTE: WORK AREA MAY BE EXTENDED BEYOND 2 MILES IF AND WHERE DIRECTED BY THE ENGINEER. ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BEYOND THE 2 MILE WORK AREA WILL BE AT THE CONTRACTOR'S EXPENSE.

MOVABLE WORK ZONE FOR WRSF INSTALLATION

MAINTENANCE OF TRAFFIC WORK AREAS

DWYANDELL 9/20/2012 10:41:57 AM
 WORKSPACE: AHTD
 \\GLTDCON\ITPr-j\loc's\2011\011702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_MOT_SD_01.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | 46 | 93 | |

② QUANTITIES



10-15-12

| GUARDRAIL | | | | | |
|-----------|---------|----------|--------------------|-------------------------------|-----------------------------|
| STATION | STATION | SIDE | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
| | | | L.F. | EACH | EACH |
| 30+31 | 38+81 | NB SHLDR | 800 | 1 | 1 |
| 33+27 | 41+52 | SB SHLDR | 775 | 1 | 1 |
| 45+37 | 2+43 | NB SHLDR | 975 | 1 | 1 |
| 53+14 | 4+95 | SB SHLDR | 450 | 1 | 1 |
| 149+08 | 154+08 | NB SHLDR | 450 | 1 | 1 |
| 151+72 | 156+72 | SB SHLDR | 450 | 1 | 1 |
| 324+11 | 329+11 | NB SHLDR | 450 | 1 | 1 |
| 326+78 | 331+78 | SB SHLDR | 450 | 1 | 1 |
| 508+52 | 513+52 | NB SHLDR | 450 | 1 | 1 |
| 511+17 | 516+17 | SB SHLDR | 450 | 1 | 1 |
| 23+16 | 28+16 | NB SHLDR | 450 | 1 | 1 |
| 25+84 | 30+84 | SB SHLDR | 450 | 1 | 1 |
| 242+63 | 247+63 | NB SHLDR | 450 | 1 | 1 |
| 245+30 | 250+30 | SB SHLDR | 450 | 1 | 1 |
| 329+89 | 334+89 | NB SHLDR | 450 | 1 | 1 |
| 332+62 | 337+62 | SB SHLDR | 450 | 1 | 1 |
| 22+54 | 27+54 | NB SHLDR | 450 | 1 | 1 |
| 25+25 | 30+25 | SB SHLDR | 450 | 1 | 1 |
| 143+19 | 148+39 | NB SHLDR | 450 | 1 | 1 |
| 145+87 | 151+07 | SB SHLDR | 450 | 1 | 1 |
| 263+27 | 268+27 | NB SHLDR | 450 | 1 | 1 |
| 265+99 | 270+99 | SB SHLDR | 450 | 1 | 1 |
| 375+02 | 380+14 | NB SHLDR | 450 | 1 | 1 |
| 377+84 | 382+84 | SB SHLDR | 450 | 1 | 1 |
| 492+50 | 497+50 | NB SHLDR | 450 | 1 | 1 |
| 495+24 | 500+24 | SB SHLDR | 450 | 1 | 1 |
| 113+29 | 118+29 | NB SHLDR | 450 | 1 | 1 |
| 116+05 | 121+05 | SB SHLDR | 450 | 1 | 1 |
| 168+34 | 173+34 | NB SHLDR | 450 | 1 | 1 |
| 171+14 | 176+14 | SB SHLDR | 450 | 1 | 1 |
| 223+86 | 229+11 | NB SHLDR | 475 | 1 | 1 |
| 226+65 | 231+90 | SB SHLDR | 475 | 1 | 1 |
| TOTALS | | | 15650 | 32 | 32 |

| TEMPORARY EROSION CONTROL | | | |
|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| | SAND BAG DITCH CHECKS (E-5) | SEDIMENT REMOVAL & DISPOSAL | DROP INLET SILT FENCE (E-7) |
| | BAG | CU. YD. | LIN. FT. |
| ENTIRE PROJECT | 1840 | | 5544 |
| * ENTIRE PROJECT | | 150 | |
| TOTALS | 1840 | 150 | 5544 |

BASIS OF ESTIMATE:
 DROP INLET SILT FENCE = 24 LIN. FT./LOCATION
 SAND BAG DITCH CHECKS = 20 BAGS/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 ARE ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

| EARTHWORK | | | | |
|--------------|---------------------------------------|--|-------------------------|----------------------|
| STATION | STATION | LOCATION | UNCLASSIFIED EXCAVATION | COMPACTED EMBANKMENT |
| | | | CU. YD. | CU. YD. |
| 29+88 | 39+39 | RT. SHLDR. WIDENING FOR GUARDRAIL AT HWY. 63 AND I-55 TO HWY. 63 FLYOVER RAMP OVERPASS | 105 | |
| 32+84 | 41+95 | LT. SHLDR. WIDENING FOR GUARDRAIL AT HWY. 63 AND I-55 TO HWY. 63 FLYOVER RAMP OVERPASS | 101 | |
| 44+79 | 3+01 | RT. SHLDR. WIDENING FOR GUARDRAIL AT RAILROAD OVERPASS | 126 | |
| 52+71 | 5+38 | LT. SHLDR. WIDENING FOR GUARDRAIL AT RAILROAD OVERPASS | 64 | |
| 46+16 | 49+02 | RT. SHLDR. WIDENING AT OVERHEAD SIGN | 25 | |
| 47+64 | 50+50 | LT. SHLDR. WIDENING AT OVERHEAD SIGN | 25 | |
| 148+65 | 154+66 | RT. SHLDR. WIDENING AT COUNTY RD. 28 OVERPASS | 64 | |
| 151+14 | 157+15 | LT. SHLDR. WIDENING AT COUNTY RD. 28 OVERPASS | 66 | |
| 323+68 | 329+54 | RT. SHLDR. WIDENING AT HWY. 308 OVERPASS | 64 | |
| 326+20 | 332+36 | LT. SHLDR. WIDENING AT HWY. 308 OVERPASS | 65 | |
| 508+09 | 513+95 | RT. SHLDR. WIDENING AT HWY. 118 OVERPASS | 64 | |
| 510+59 | 516+75 | LT. SHLDR. WIDENING AT HWY. 118 OVERPASS | 66 | |
| 22+73 | 28+74 | RT. SHLDR. WIDENING AT HWY. 181 OVERPASS | 65 | |
| 25+26 | 31+27 | LT. SHLDR. WIDENING AT HWY. 181 OVERPASS | 65 | |
| 242+05 | 248+21 | RT. SHLDR. WIDENING AT COUNTY RD. 940 OVERPASS | 65 | |
| 244+87 | 250+73 | LT. SHLDR. WIDENING AT COUNTY RD. 940 OVERPASS | 64 | |
| 329+31 | 335+47 | RT. SHLDR. WIDENING AT HWY. 14 OVERPASS | 66 | |
| 332+19 | 338+05 | LT. SHLDR. WIDENING AT HWY. 14 OVERPASS | 64 | |
| 22+11 | 28+12 | RT. SHLDR. WIDENING AT HWY. 158 OVERPASS | 65 | |
| 24+82 | 30+68 | LT. SHLDR. WIDENING AT HWY. 158 OVERPASS | 64 | |
| 142+61 | 148+97 | RT. SHLDR. WIDENING AT COUNTY RD. 506 OVERPASS | 65 | |
| 145+44 | 151+50 | LT. SHLDR. WIDENING AT COUNTY RD. 506 OVERPASS | 64 | |
| 262+69 | 268+85 | RT. SHLDR. WIDENING AT HWY. 148 OVERPASS | 66 | |
| 265+56 | 271+42 | LT. SHLDR. WIDENING AT HWY. 148 OVERPASS | 64 | |
| 374+44 | 380+57 | RT. SHLDR. WIDENING AT COUNTY RD. 378 OVERPASS | 65 | |
| 377+41 | 383+42 | LT. SHLDR. WIDENING AT COUNTY RD. 378 OVERPASS | 64 | |
| 492+07 | 498+08 | RT. SHLDR. WIDENING AT HWY. 312 OVERPASS | 66 | |
| 494+66 | 500+67 | LT. SHLDR. WIDENING AT HWY. 312 OVERPASS | 64 | |
| 112+71 | 118+72 | RT. SHLDR. WIDENING AT HWY. 239 OVERPASS | 64 | |
| 115+62 | 121+63 | LT. SHLDR. WIDENING AT HWY. 239 OVERPASS | 64 | |
| 167+91 | 173+77 | RT. SHLDR. WIDENING AT HWY. 312 OVERPASS | 64 | |
| 170+56 | 176+72 | LT. SHLDR. WIDENING AT HWY. 312 OVERPASS | 62 | |
| 223+28 | 229+54 | RT. SHLDR. WIDENING AT HWY. 18 OVERPASS | 68 | |
| 226+22 | 232+33 | LT. SHLDR. WIDENING AT HWY. 18 OVERPASS | 67 | |
| * ENTIRE JOB | IF AND WHERE DIRECTED BY THE ENGINEER | | 240 | 1600 |
| TOTALS | | | 2500 | 1600 |

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

* QUANTITIES ESTIMATED FOR MEDIAN CROSSING CONSTRUCTION AND SLOPE MODIFICATIONS AT GUARDRAIL WIDENING LOCATIONS.

QUANTITIES

BASE & SURFACING (BOX 1 OF 2)

| STATION | STATION | LOCATION | LENGTH | ACHM SURFACE COURSE (1/2") | | | | AGGREGATE BASE COURSE (CLASS 7) | | |
|-----------|-----------|---------------------------------|--------|----------------------------|--------------|------------------|--------|---------------------------------|--------|--|
| | | | | AVG. WIDTH | SQUARE YARDS | LBS. PER SQ. YD. | TON | TONS PER STATION | TON | |
| | | | | FEET | | | | | | |
| 29+88.00 | 30+21.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 30+21.00 | 38+06.00 | RT. SHLDR. NORMAL WIDENING | 785.00 | 7.50 | 654.17 | 220 | 72.0 | 34.9 | 274.0 | |
| 38+06.00 | 38+21.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 38+21.00 | 38+91.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 38+91.00 | 39+39.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 32+84.00 | 33+17.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 33+17.00 | 41+62.00 | LT. SHLDR. NORMAL WIDENING | 845.00 | 7.50 | 704.17 | 220 | 77.5 | 34.9 | 294.9 | |
| 41+62.00 | 41+95.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 44+79.00 | 45+27.00 | RT. SHDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 45+27.00 | 49+50.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 423.00 | 10.00 | 470.00 | 220 | 51.7 | 44.6 | 188.7 | |
| 49+50.00 | 49+65.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 49+65.00 | 1+67.80 | RT. SHLDR. NORMAL WIDENING | 522.00 | 7.50 | 435.00 | 220 | 47.9 | 34.9 | 182.2 | |
| 1+67.80 | 1+82.80 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 1+82.80 | 2+52.80 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 2+52.80 | 3+00.80 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 52+71.20 | 53+04.20 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 53+04.20 | 5+05.00 | LT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 | |
| 5+05.00 | 5+38.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 46+16.00 | 46+49.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 46+49.00 | 48+69.00 | RT. SHLDR. NORMAL WIDENING | 220.00 | 7.50 | 183.33 | 220 | 20.2 | 34.9 | 76.8 | |
| 48+69.00 | 49+02.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 47+64.00 | 47+97.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 47+97.00 | 50+17.00 | LT. SHLDR. NORMAL WIDENING | 220.00 | 7.50 | 183.33 | 220 | 20.2 | 34.9 | 76.8 | |
| 50+17.00 | 50+50.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 148+65.00 | 148+98.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 148+98.00 | 153+33.00 | RT. SHLDR. NORMAL WIDENING | 435.00 | 7.50 | 362.50 | 220 | 39.9 | 34.9 | 151.8 | |
| 153+33.00 | 153+48.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 153+48.00 | 154+18.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 154+18.00 | 154+66.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 151+14.00 | 151+62.00 | LT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 151+62.00 | 152+32.00 | LT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 152+32.00 | 152+47.00 | LT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 152+47.00 | 156+82.00 | LT. SHLDR. NORMAL WIDENING | 435.00 | 7.50 | 362.50 | 220 | 39.9 | 34.9 | 151.8 | |
| 156+82.00 | 157+15.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 323+68.00 | 324+01.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 324+01.00 | 329+21.00 | RT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 | |
| 329+21.00 | 329+54.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 326+20.00 | 326+68.00 | LT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 326+68.00 | 327+38.00 | LT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 327+38.00 | 327+53.00 | LT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 327+53.00 | 328+36.00 | LT. SHLDR. NORMAL WIDENING | 83.00 | 7.50 | 69.17 | 220 | 7.6 | 34.9 | 29.0 | |
| 328+36.00 | 328+51.00 | LT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 328+51.00 | 331+88.00 | LT. SHLDR. EXTRA WIDTH WIDENING | 337.00 | 10.00 | 374.44 | 220 | 41.2 | 44.6 | 150.3 | |
| 331+88.00 | 332+36.00 | LT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 508+09.00 | 508+42.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 508+42.00 | 513+62.00 | RT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 | |
| 513+62.00 | 513+95.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 510+59.00 | 511+07.00 | LT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 511+07.00 | 511+77.00 | LT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 511+77.00 | 511+92.00 | LT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 511+92.00 | 512+77.00 | LT. SHLDR. NORMAL WIDENING | 85.00 | 7.50 | 70.83 | 220 | 7.8 | 34.9 | 29.7 | |
| 512+77.00 | 512+92.00 | LT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 512+92.00 | 516+27.00 | LT. SHLDR. EXTRA WIDTH WIDENING | 335.00 | 10.00 | 372.22 | 220 | 40.9 | 44.6 | 149.4 | |
| 516+27.00 | 516+75.00 | LT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 22+73.00 | 23+06.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 23+06.00 | 27+41.00 | RT. SHLDR. NORMAL WIDENING | 435.00 | 7.50 | 362.50 | 220 | 39.9 | 34.9 | 151.8 | |
| 27+41.00 | 27+56.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 27+56.00 | 28+26.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 28+26.00 | 28+74.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 25+26.00 | 25+74.00 | LT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 25+74.00 | 26+44.00 | LT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 26+44.00 | 26+59.00 | LT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 26+59.00 | 30+94.00 | LT. SHLDR. NORMAL WIDENING | 435.00 | 7.50 | 362.50 | 220 | 39.9 | 34.9 | 151.8 | |
| 30+94.00 | 31+27.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 242+05.00 | 242+53.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 242+53.00 | 245+90.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 337.00 | 10.00 | 374.44 | 220 | 41.2 | 44.6 | 150.3 | |
| 245+90.00 | 246+05.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 246+05.00 | 246+88.00 | RT. SHLDR. NORMAL WIDENING | 83.00 | 7.50 | 69.17 | 220 | 7.6 | 34.9 | 29.0 | |
| 246+88.00 | 247+03.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 247+03.00 | 247+73.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 247+73.00 | 248+21.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 244+87.00 | 245+20.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 245+20.00 | 250+40.00 | LT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 | |
| 250+40.00 | 250+73.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 329+31.00 | 329+79.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 329+79.00 | 333+22.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 343.00 | 10.00 | 381.11 | 220 | 41.9 | 44.6 | 153.0 | |
| 333+22.00 | 333+37.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 333+37.00 | 334+14.00 | RT. SHLDR. NORMAL WIDENING | 77.00 | 7.50 | 64.17 | 220 | 7.1 | 34.9 | 26.9 | |
| 334+14.00 | 334+29.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 | |
| 334+29.00 | 334+99.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 | |
| 334+99.00 | 335+47.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 | |
| 332+19.00 | 332+52.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| 332+52.00 | 337+72.00 | LT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 | |
| 337+72.00 | 338+05.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 | |
| SUBTOTALS | | | | | 9864.5 | | 1085.3 | | 4105.7 | |

BASIS OF ESTIMATE:

ACHM SURFACE COURSE (1/2"): 5.3% ASPHALT BNDER, 94.7% MINERAL AGGREGATE (PG 64-22), N_{max} = 115

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 47 | 93 |

QUANTITIES



10-5-12

BASE & SURFACING (BOX 2 OF 2)

| STATION | STATION | LOCATION | LENGTH | ACHM SURFACE COURSE (1/2") | | | | AGGREGATE BASE COURSE (CLASS 7) | |
|-----------|-----------|---------------------------------|--------|----------------------------|--------------|------------------|------|---------------------------------|-------|
| | | | | AVG. WIDTH | SQUARE YARDS | LBS. PER SQ. YD. | TON | TONS PER STATION | TON |
| | | | | FEET | | | | | |
| 22+11.00 | 22+44.00 | RT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 |
| 22+44.00 | 26+79.00 | RT. SHLDR. NORMAL WIDENING | 435.00 | 7.50 | 362.50 | 220 | 39.9 | 34.9 | 151.8 |
| 26+79.00 | 26+94.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 |
| 26+94.00 | 27+64.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 |
| 27+64.00 | 28+12.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 |
| 24+82.00 | 25+15.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 |
| 25+15.00 | 30+35.00 | LT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 |
| 30+35.00 | 30+68.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 |
| 142+61.00 | 143+09.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 |
| 143+09.00 | 146+47.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 338.00 | 10.00 | 375.56 | 220 | 41.3 | 44.6 | 150.8 |
| 146+47.00 | 146+62.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 |
| 146+62.00 | 147+44.00 | RT. SHLDR. NORMAL WIDENING | 82.00 | 7.50 | 68.33 | 220 | 7.5 | 34.9 | 28.6 |
| 147+44.00 | 147+59.00 | RT. SHLDR. TAPER | 15.00 | 8.75 | 14.58 | 220 | 1.6 | 39.8 | 6.0 |
| 147+59.00 | 148+49.00 | RT. SHLDR. EXTRA WIDTH WIDENING | 70.00 | 10.00 | 77.78 | 220 | 8.6 | 44.6 | 31.2 |
| 148+49.00 | 148+97.00 | RT. SHLDR. TAPER | 48.00 | 6.00 | 32.00 | 220 | 3.5 | 29.1 | 14.0 |
| 145+44.00 | 145+77.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | 220 | 1.9 | 24.2 | 8.0 |
| 145+77.00 | 151+17.00 | LT. SHLDR. NORMAL WIDENING | 520.00 | 7.50 | 433.33 | 220 | 47.7 | 34.9 | 181.5 |
| 151+17.00 | 151+50.00 | LT. SHLDR. TAPER | 33.00 | 4.75 | 17.42 | | | | |

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | 48 | 93 | |

2 SUMMARY OF QUANTITIES AND REVISIONS



10-15-12

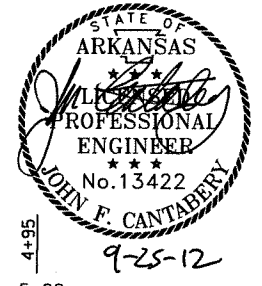
| SUMMARY OF QUANTITIES | | | |
|-----------------------|---|----------|----------|
| ITEM NUMBER | ITEM | QUANTITY | UNIT |
| SP & 202 | REMOVAL AND DISPOSAL OF GUARDRAIL | 200 | LIN. FT. |
| SP | REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS | 34 | EACH |
| 210 | UNCLASSIFIED EXCAVATION | 2500 | CU. YD. |
| 210 | COMPACTED EMBANKMENT | 1600 | CU. YD. |
| SS & 303 | AGGREGATE BASE COURSE (CLASS 7) | 7879 | TON |
| SP, SS & 407 | MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2") | 1978 | TON |
| SP, SS & 407 | ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2") | 111 | TON |
| 601 | MOBILIZATION | 1.00 | LUMP SUM |
| SP, SS & 603 | MAINTENANCE OF TRAFFIC | 1.00 | LUMP SUM |
| SS & 604 | SIGNS | 868 | SQ. FT. |
| SS & 604 | TRAFFIC DRUMS | 494 | EACH |
| SS & 604 | ADVANCE WARNING ARROW PANEL | 205 | DAY |
| SP, SS & 604 | PORTABLE CHANGEABLE MESSAGE SIGN | 148 | WEEK |
| SP & 605 | CONCRETE DITCH PAVING (TYPE B) | 76515 | SQ. YD. |
| SS & 617 | GUARDRAIL (TYPE A) | 15650 | LIN. FT. |
| SS & 617 | TERMINAL ANCHOR POSTS (TYPE 1) | 32 | EACH |
| SS & 617 | GUARDRAIL TERMINAL (TYPE 2) | 32 | EACH |
| SS & 620 | WATER | 482.1 | M. GAL. |
| 621 | SAND BAG DITCH CHECKS | 1840 | BAG |
| 621 | DROP INLET SILT FENCE | 5544 | LIN. FT. |
| 621 | SEDIMENT REMOVAL AND DISPOSAL | 150 | CU. YD. |
| 624 | SOLID SODDING | 38258 | SQ. YD. |
| 635 | ROADWAY CONSTRUCTION CONTROL | 1.00 | LUMP SUM |
| SP | WIRE ROPE SAFETY FENCE | 178308 | LIN. FT. |
| SP | WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS | 1.00 | LUMP SUM |

| REVISION BOX | | |
|--------------|----------|--------------|
| DATE | REVISION | SHEET NUMBER |
| | | |
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| | | |

DWYANDELL 10/15/2012 8:49:15 AM
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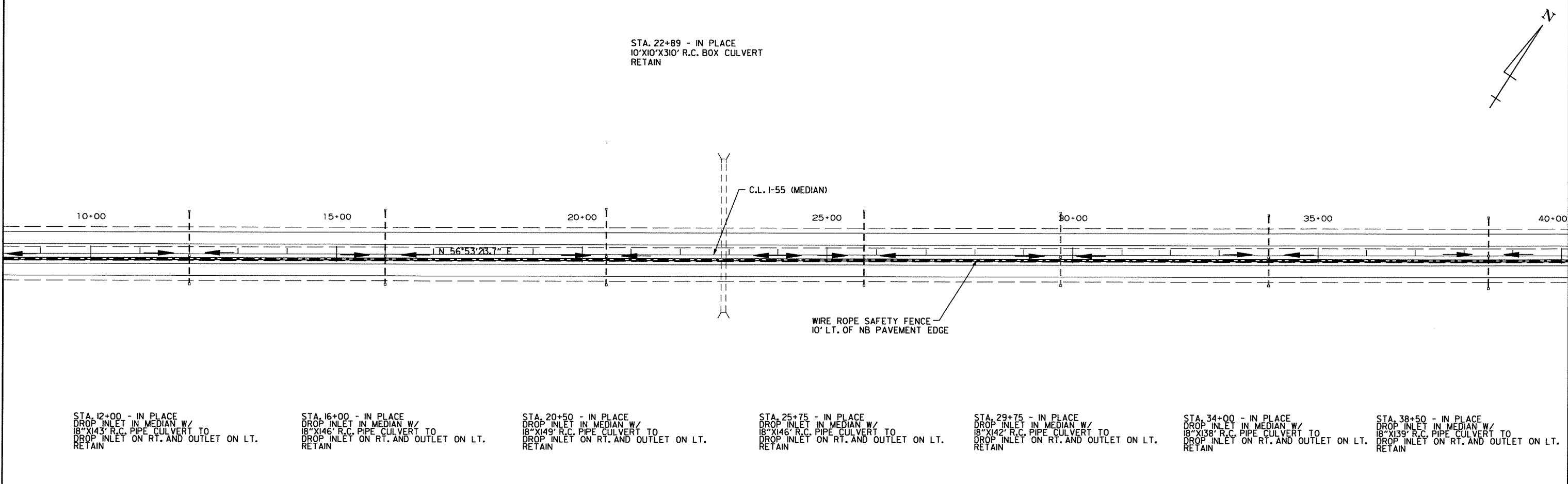
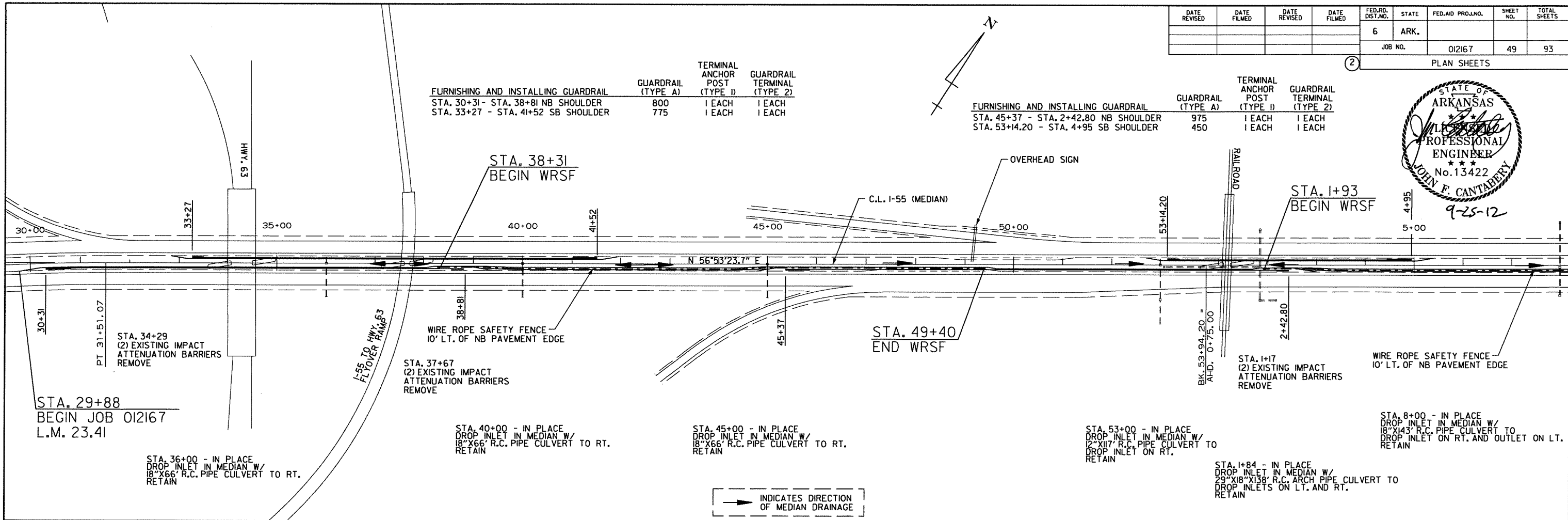
| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 49 | 93 |

PLAN SHEETS



| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|-------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 30+31 - STA. 38+81 NB SHOULDER | 800 | 1 EACH | 1 EACH |
| STA. 33+27 - STA. 41+52 SB SHOULDER | 775 | 1 EACH | 1 EACH |

| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 45+37 - STA. 2+42.80 NB SHOULDER | 975 | 1 EACH | 1 EACH |
| STA. 53+14.20 - STA. 4+95 SB SHOULDER | 450 | 1 EACH | 1 EACH |

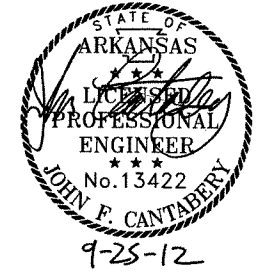


9/20/2012 10:42:05 AM
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 REVISION DATE:

PLAN SHEET STA. 29+88 - STA. 40+00

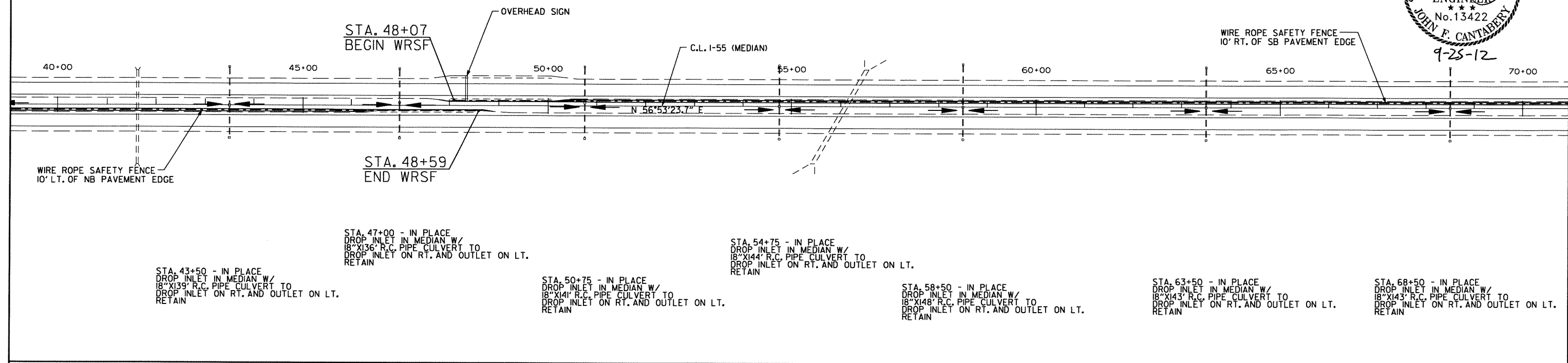
| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 50 | 93 |

2 PLAN SHEETS

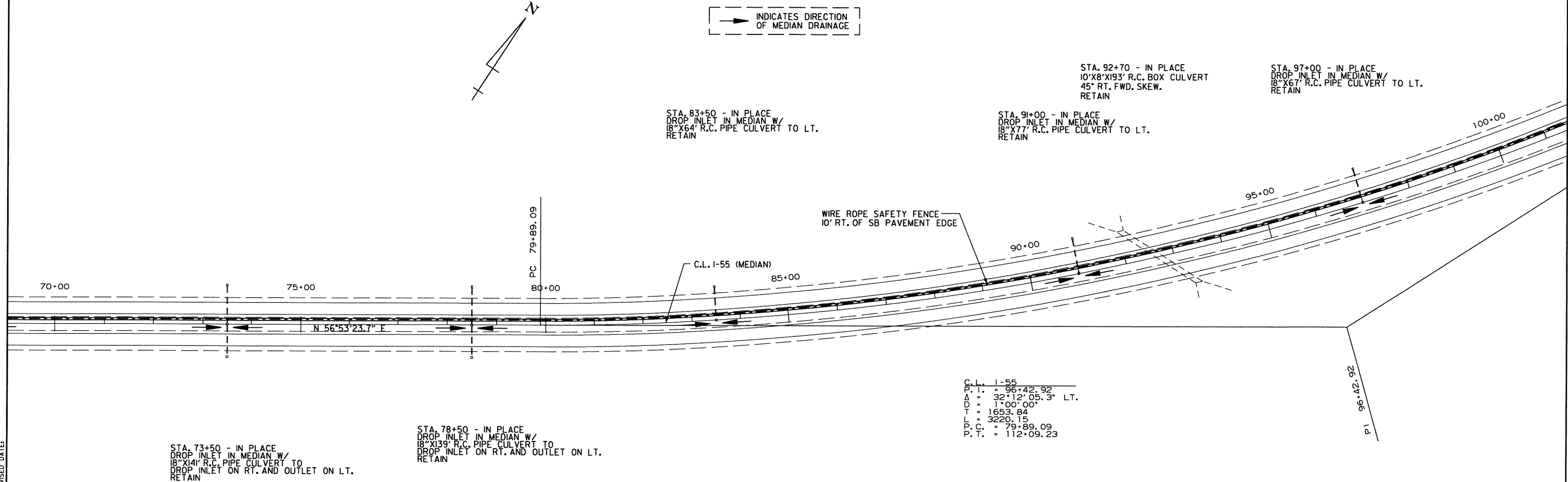


STA. 41+62 - IN PLACE
4'X4'X190' R.C. BOX CULVERT
RETAIN

STA. 56+10 - IN PLACE
8'X8'X210' R.C. BOX CULVERT
30° LT. FWD. SKEW.
RETAIN



INDICATES DIRECTION OF MEDIAN DRAINAGE



C.L. I-55
P.I. = 96+42.92
A = 32°12'05.3" LT.
D = 1°00'00"
T = 1653.84
L = 3220.15
P.C. = 79+89.09
P.T. = 112+09.23

PLAN SHEET STA. 40+00 - STA. 100+00

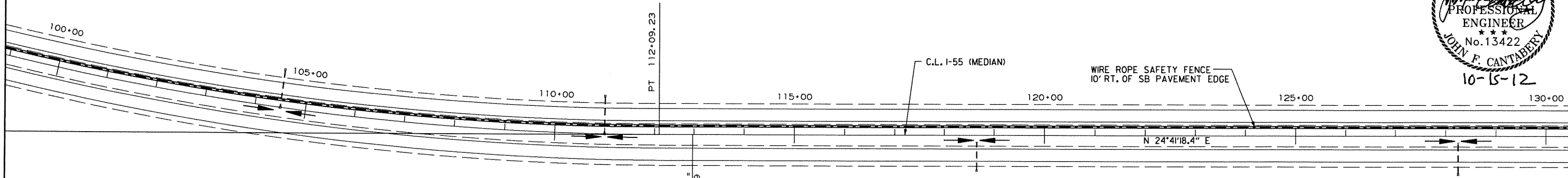
9/20/2012 10:42:06 AM
 DWYANDELL AHTD
 WORKSPACE: AHTD
 \\GLTDCOR\ITPrj\objects\2011\0117702 - AHTD Cable Median Barriers - TO 0013\Dr-ov\ngs\JOB 012167 - Blytheville\BB_PP_02.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 51 | 93 |
| PLAN SHEETS | | | | | | | | |



STA. 104+50 - IN PLACE
DROP INLET IN MEDIAN W/
18"X71" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 111+00 - IN PLACE
DROP INLET IN MEDIAN W/
18"X70" R.C. PIPE CULVERT TO LT.
RETAIN



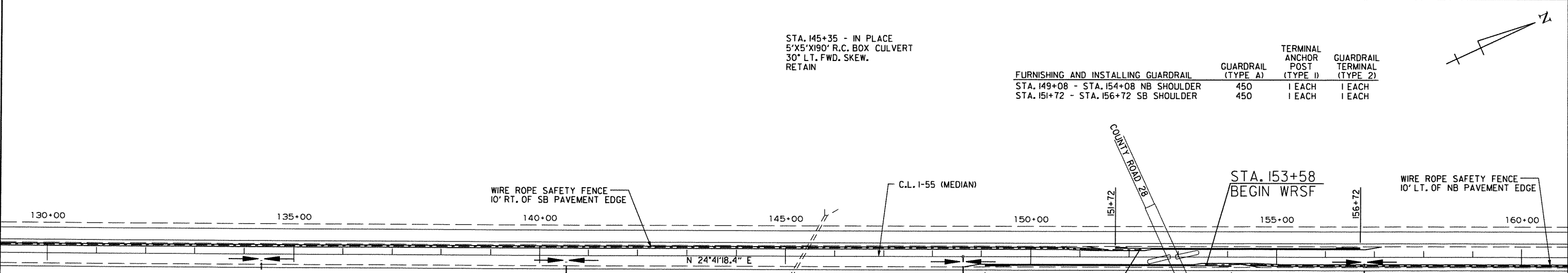
C.L. 1-55
P.T. = 96+42.92
Δ = 32°12'05.3" LT.
D = 1°00'00"
T = 1653.84
L = 3220.15
P.C. = 79+89.09
P.T. = 112+09.23

BK. 112+75.10 =
AHD. 112+97.09

STA. 118+65 - IN PLACE
18"X54" R.C. PIPE CULVERT TO RT.
RETAIN

STA. 128+25 - IN PLACE
18"X60" R.C. PIPE CULVERT TO RT.
RETAIN

INDICATES DIRECTION
OF MEDIAN DRAINAGE



STA. 145+35 - IN PLACE
5'X5'X190' R.C. BOX CULVERT
30° LT. FWD. SKEW.
RETAIN

| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 149+08 - STA. 154+08 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 151+72 - STA. 156+72 SB SHOULDER | 450 | 1 EACH | 1 EACH |

STA. 134+35 - IN PLACE
18"X62" R.C. PIPE CULVERT TO RT.
RETAIN

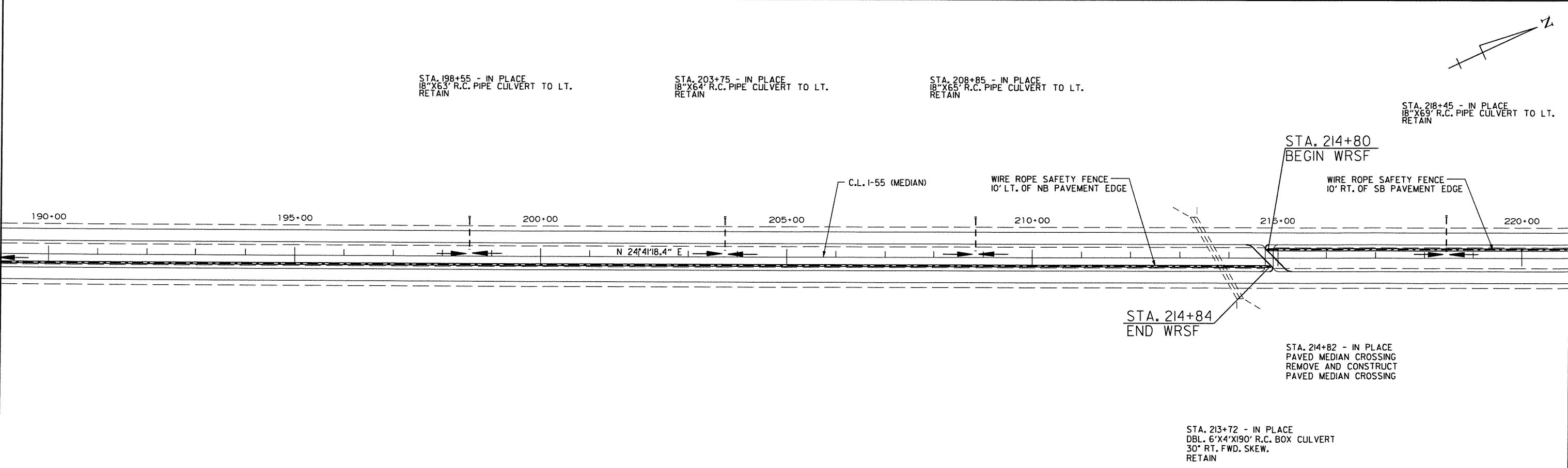
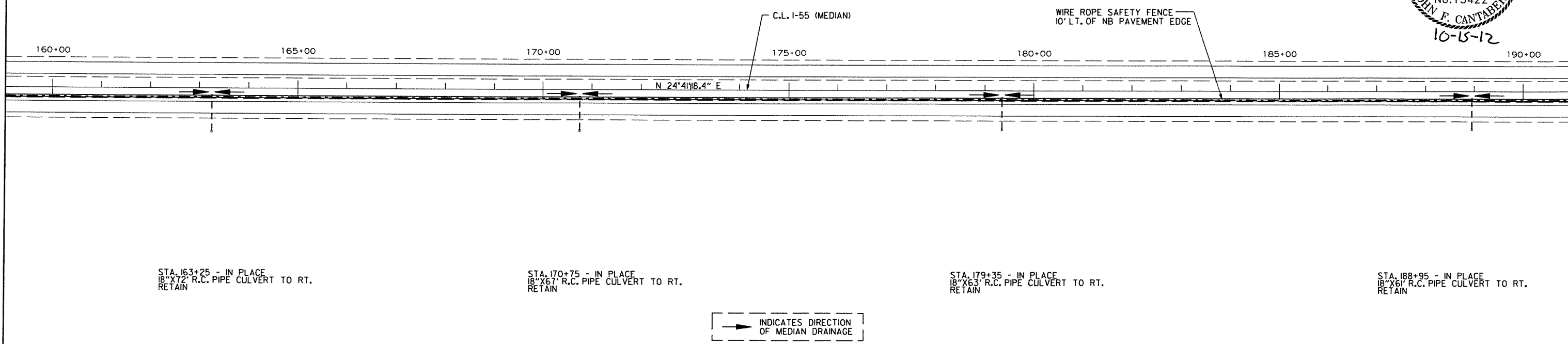
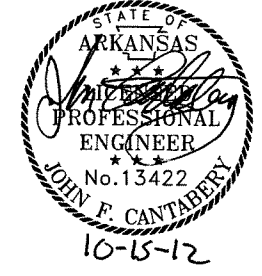
STA. 140+55 - IN PLACE
18"X66" R.C. PIPE CULVERT TO RT.
RETAIN

STA. 148+63 - IN PLACE
DROP INLET IN MEDIAN W/
18"X75" R.C. PIPE CULVERT TO RT.
RETAIN

STA. 156+80 - IN PLACE
18"X71" R.C. PIPE CULVERT TO RT.
RETAIN

DWYANDELL 10/12/2012 10:54:16 PM
 WORKSPACE: AHTD
 \\GLITDCON\ITPrj\Projects\2011\011702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By:theville\BB_PP_03.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 52 | 93 |
| | | | | | | | | PLAN SHEETS |



PLAN SHEET STA. 160+00 - STA. 220+00

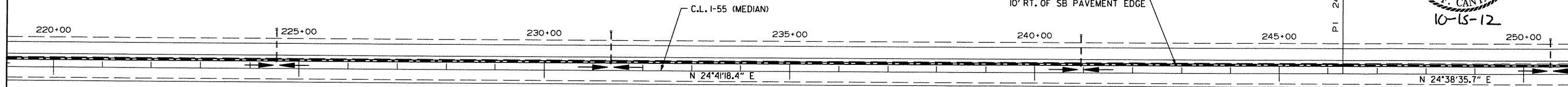
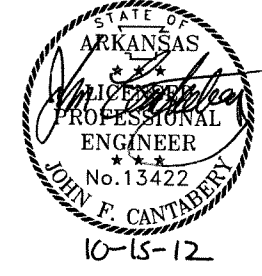
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 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 53 | 93 |
| PLAN SHEETS | | | | | | | | |

STA. 224+55 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 231+35 - IN PLACE
18" X 63" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 240+95 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN



→ INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 250+55 - IN PLACE
18" X 56" R.C. PIPE CULVERT TO LT.
RETAIN

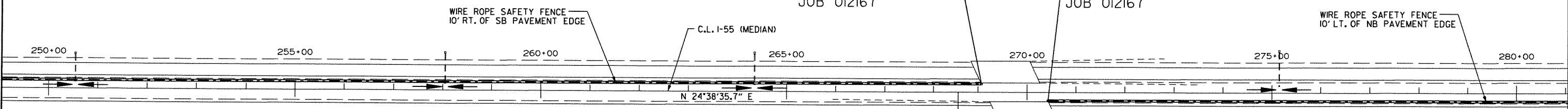
STA. 258+05 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 264+35 - IN PLACE
18" X 62" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 275+15 - IN PLACE
18" X 69" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 269+07
END WRSF
BEGIN EXCEPTION TO
JOB 012167

STA. 270+43
BEGIN WRSF
END EXCEPTION TO
JOB 012167



BK. 268+50.00 -
AHD. 268+59.78

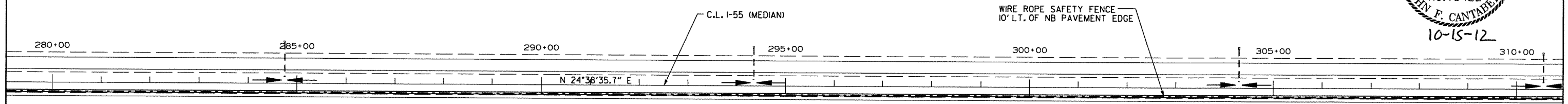
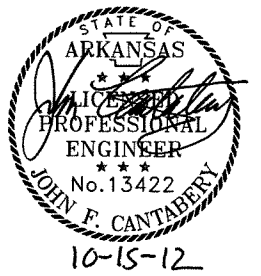
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 \\GLTDC01\ITPrj\Projects\2011\0117702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_PP_05.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 54 | 93 |
| PLAN SHEETS | | | | | | | | |

STA. 284+75 - IN PLACE
18"X68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 294+35 - IN PLACE
18"X63" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 304+30 - IN PLACE
18"X65" R.C. PIPE CULVERT TO LT.
RETAIN

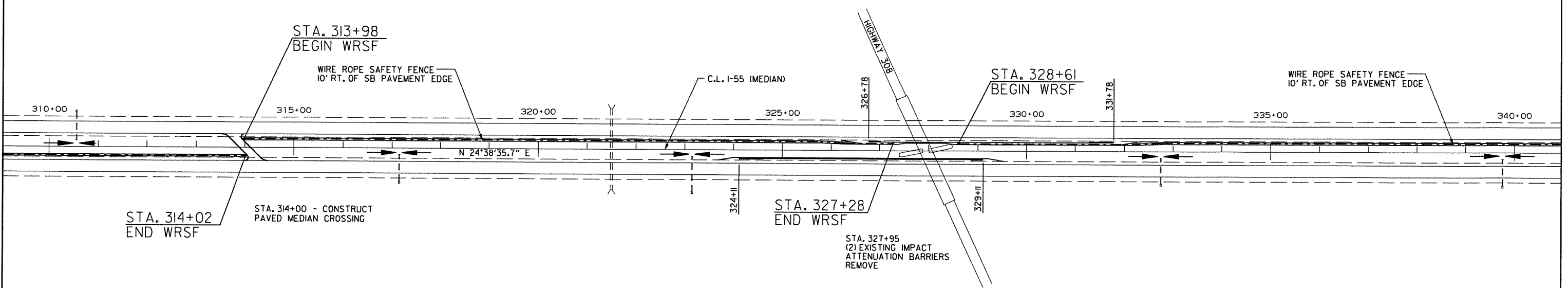


INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 310+55 - IN PLACE
18"X56" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 321+50 - IN PLACE
4'X4'X164" R.C. BOX CULVERT
RETAIN

| FURNISHING AND INSTALLING GUARDRAIL | | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--|--------------------|-------------------------------|-----------------------------|
| STA. 324+11 - STA. 329+11 NB SHOULDER | | 450 | 1 EACH | 1 EACH |
| STA. 326+78 - STA. 331+78 SB SHOULDER | | 450 | 1 EACH | 1 EACH |



STA. 317+15 - IN PLACE
18"X54" R.C. PIPE CULVERT TO RT.
RETAIN

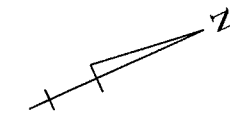
STA. 323+15 - IN PLACE
18"X72" R.C. PIPE CULVERT TO RT.
RETAIN

STA. 332+75 - IN PLACE
18"X52" R.C. PIPE CULVERT TO RT.
RETAIN

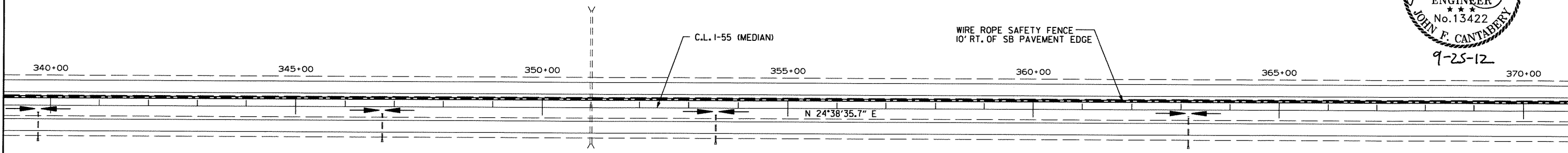
STA. 339+75 - IN PLACE
18"X54" R.C. PIPE CULVERT TO RT.
RETAIN

DWYANDELL 10/12/2012 15:417 PM
 WORKSPACE: AHTD
 \\\CLITDC01\IT\Projects\2011\0117702 - AHTD Coble Median Barriers - TO 001\Drawings\JOB 012167 - Blytheville\BB_PP_06.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. | 012167 |
| | | | | | | | (2) | PLAN SHEETS |
| | | | | | | | 55 | 93 |



STA. 351+00 - IN PLACE
4'X4'X268' R.C. BOX CULVERT
RETAIN



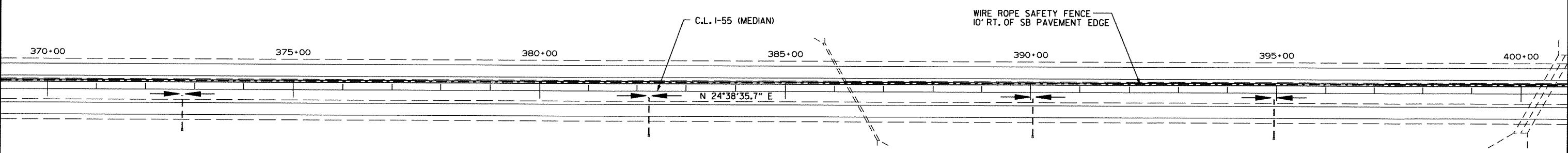
STA. 346+75 - IN PLACE
18\"/>

STA. 353+55 - IN PLACE
18\"/>

STA. 363+15 - IN PLACE
18\"/>



STA. 386+34 - IN PLACE
4'X4'X226' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN



STA. 372+75 - IN PLACE
18\"/>

STA. 382+25 - IN PLACE
18\"/>

STA. 390+05 - IN PLACE
18\"/>

STA. 394+95 - IN PLACE
18\"/>

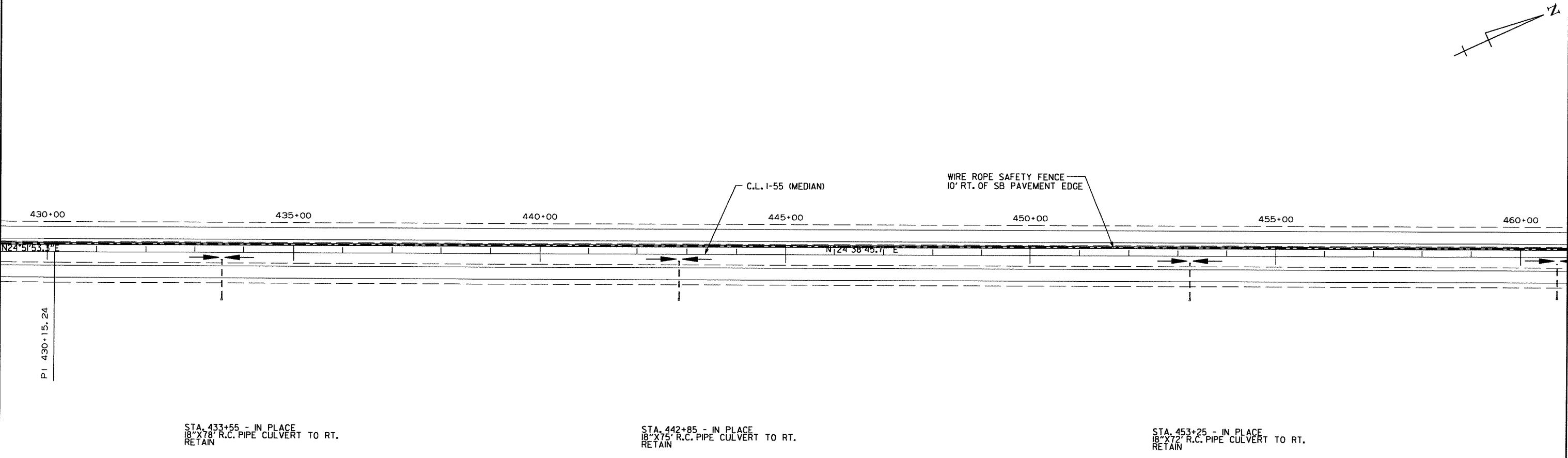
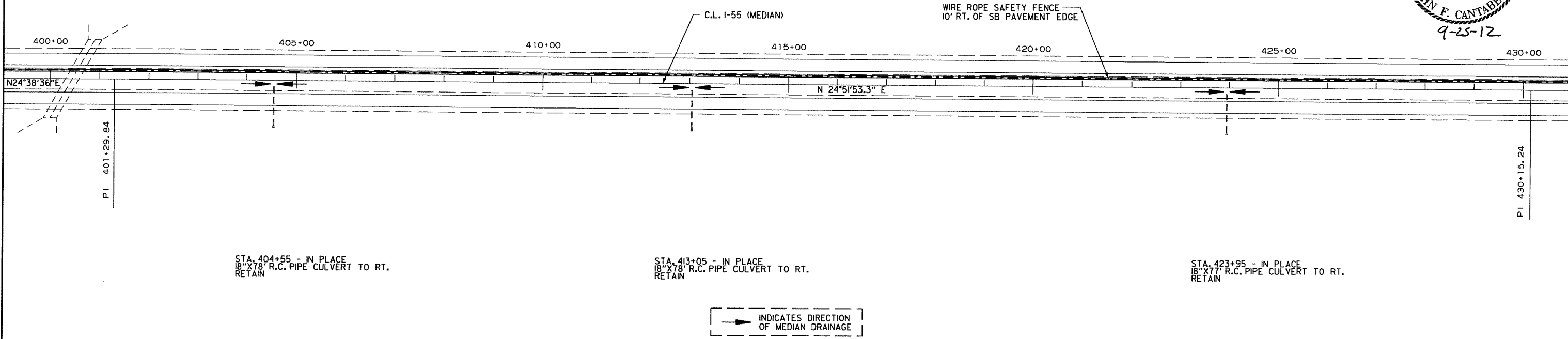
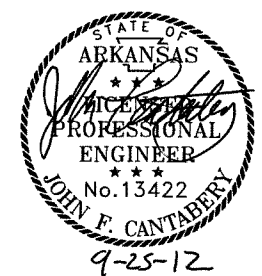
9/20/2012 10:42:11 AM
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 WORKSPACE: AHTD
 \\GLTDCON\ITPrj\0\jects\2011\011702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - B\the\lib\BB_PP_07.dgn
 REVISED DATE:

STA. 400+45 - IN PLACE
 DBL 10'X12'X182' R.C. BOX CULVERT
 30° LT. FWD. SKEW.
 RETAIN



| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|----------------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. 012167 | 56 |
| | | | | | | | PLAN SHEETS | 93 |

2



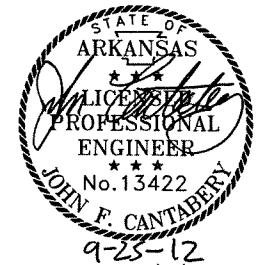
9/20/2012 10:42:12 AM
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 REVISED DATE:

STA. 468+25 - IN PLACE
18" X 63" R.C. PIPE CULVERT TO LT.
RETAIN

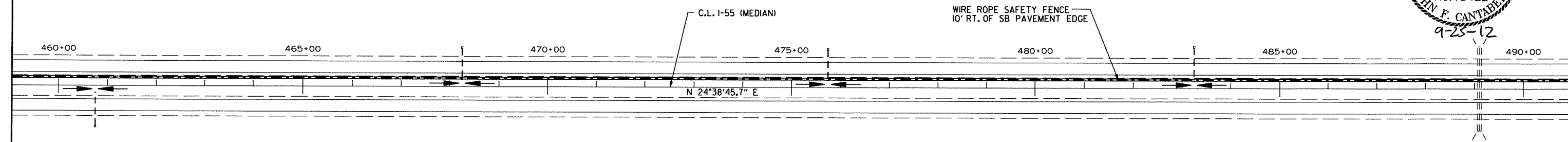
STA. 475+75 - IN PLACE
18" X 62" R.C. PIPE CULVERT TO LT.
RETAIN

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|----------------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. 012167 | 57 93 |

2 PLAN SHEETS



STA. 483+25 - IN PLACE
18" X 68" R.C. PIPE CULVERT TO LT.
RETAIN



STA. 460+75 - IN PLACE
18" X 67" R.C. PIPE CULVERT TO RT.
RETAIN

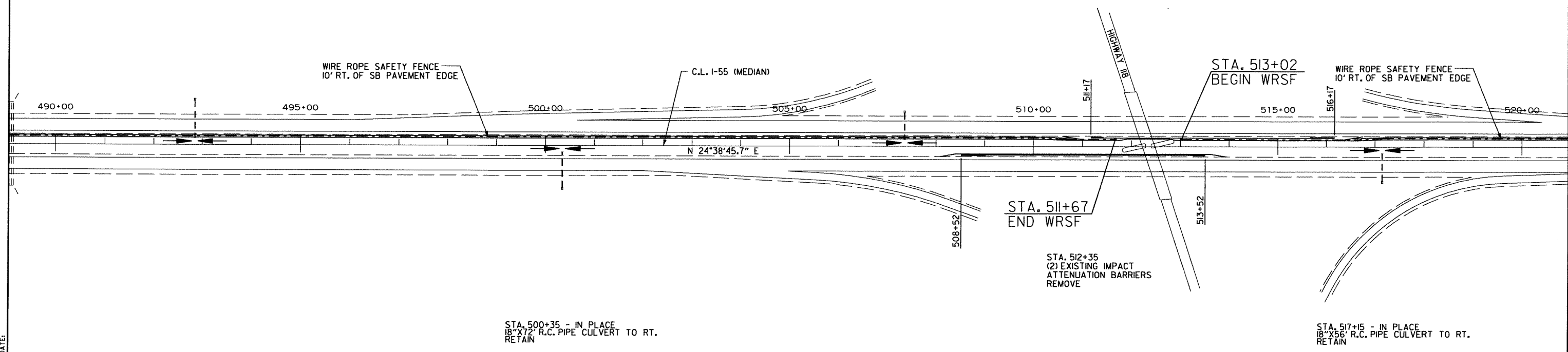
STA. 489+10 - IN PLACE
DBL. 4' X 4' X 170' R.C. BOX CULVERT
RETAIN

INDICATES DIRECTION
OF MEDIAN DRAINAGE

STA. 492+85 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 507+35 - IN PLACE
18" X 54" R.C. PIPE CULVERT TO LT.
RETAIN

| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 508+52 - STA. 513+52 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 511+17 - STA. 516+17 SB SHOULDER | 450 | 1 EACH | 1 EACH |



STA. 500+35 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO RT.
RETAIN

STA. 517+15 - IN PLACE
18" X 56" R.C. PIPE CULVERT TO RT.
RETAIN

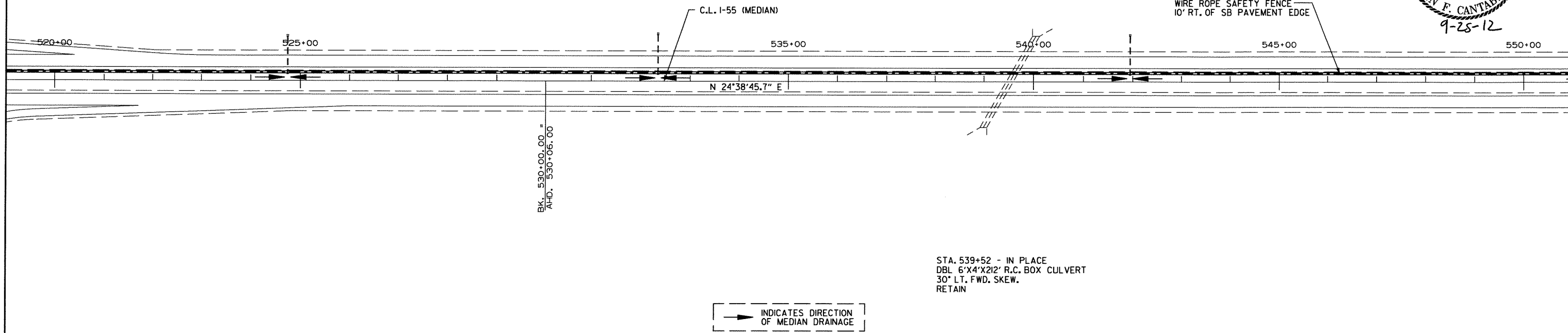
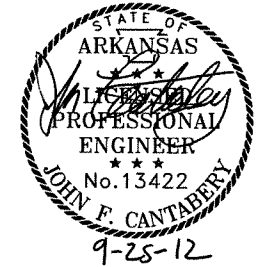
9/20/2012 10:42:13 AM
 DWYANDELL
 WORKSPACE: AHTD
 \\\G\TDC\AL\IT\Projects\2011\017102 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 012167 - By theville\BB_PP_09.dgn
 REVISION DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 58 | 93 |
| PLAN SHEETS | | | | | | | | |

STA. 524+75 - IN PLACE
18" X 15' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 532+35 - IN PLACE
18" X 80' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 541+95 - IN PLACE
18" X 78' R.C. PIPE CULVERT TO LT.
RETAIN

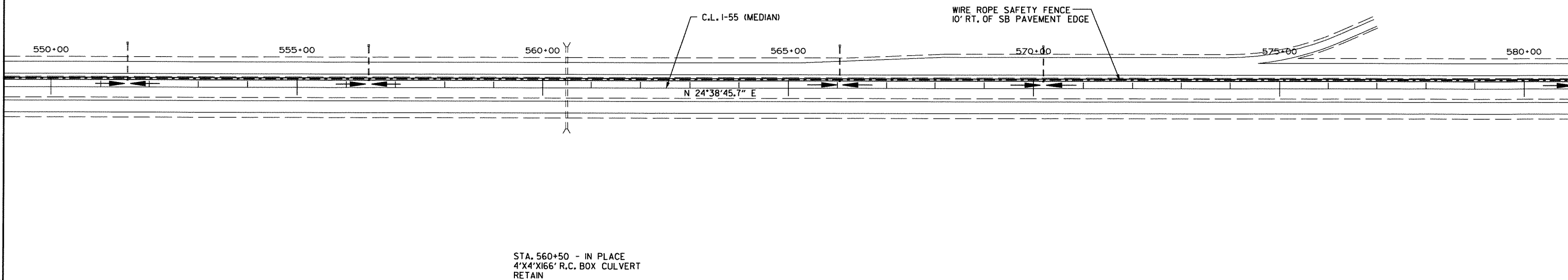


STA. 551+55 - IN PLACE
18" X 73' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 556+45 - IN PLACE
18" X 69' R.C. PIPE CULVERT TO LT.
RETAIN

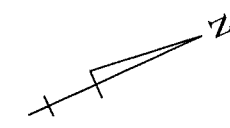
STA. 566+05 - IN PLACE
18" X 70' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 570+20 - IN PLACE
18" X 69' R.C. PIPE CULVERT TO LT.
RETAIN



DWYANDELL 9/20/2012 10:42:13 AM
 WORKSPACE: AHTD
 \\GLITDC01\IT\Projects\2011\017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 02167 - Blytheville\BB_PP_10.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 59 | 93 |
| | | | | | | | | PLAN SHEETS |

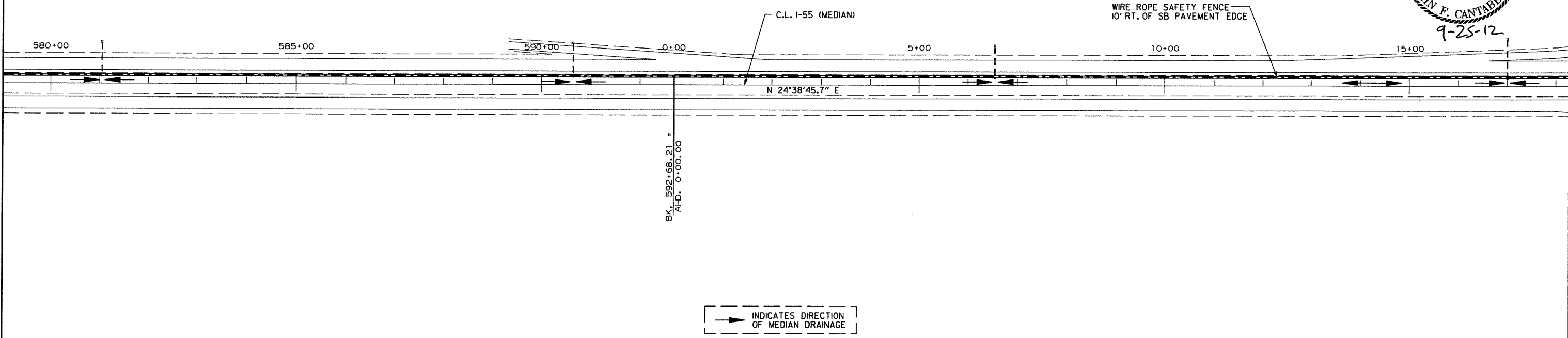
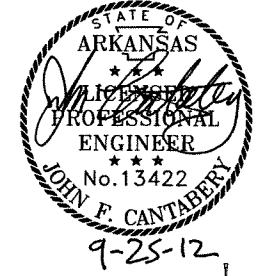


STA. 581+05 - IN PLACE
18" X 68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 590+65 - IN PLACE
18" X 62" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 6+55 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO LT.
RETAIN

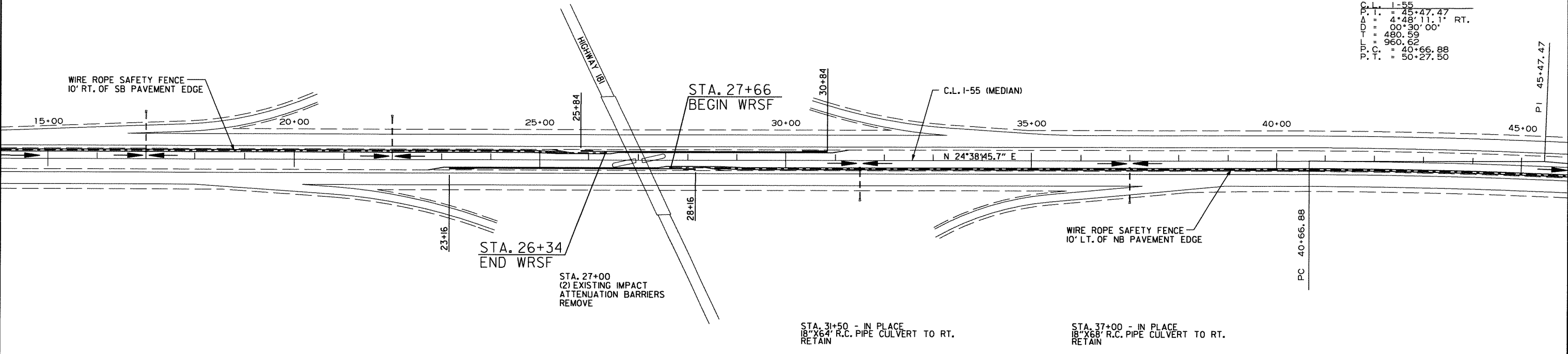
STA. 17+00 - IN PLACE
18" X 80" R.C. PIPE CULVERT TO LT.
RETAIN



STA. 22+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|-------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 23+16 - STA. 28+16 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 25+84 - STA. 30+84 SB SHOULDER | 450 | 1 EACH | 1 EACH |

| C.L. I-55 | |
|-----------|------------------|
| P.I. | = 45+47.47 |
| Δ | = 4°48'11.1" RT. |
| D | = 400°30'00" |
| T | = 480.59 |
| PI | = 960.62 |
| P.C. | = 40+66.88 |
| P.T. | = 50+27.50 |



DWYANDELL 9/20/2012 10:42:14 AM
 WORKSPACE: AHTD \\GLITDCO\IT\Projects\2011\1017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 02167 - Blytheville\BB_PP_IL.dgn
 REVISION DATE:

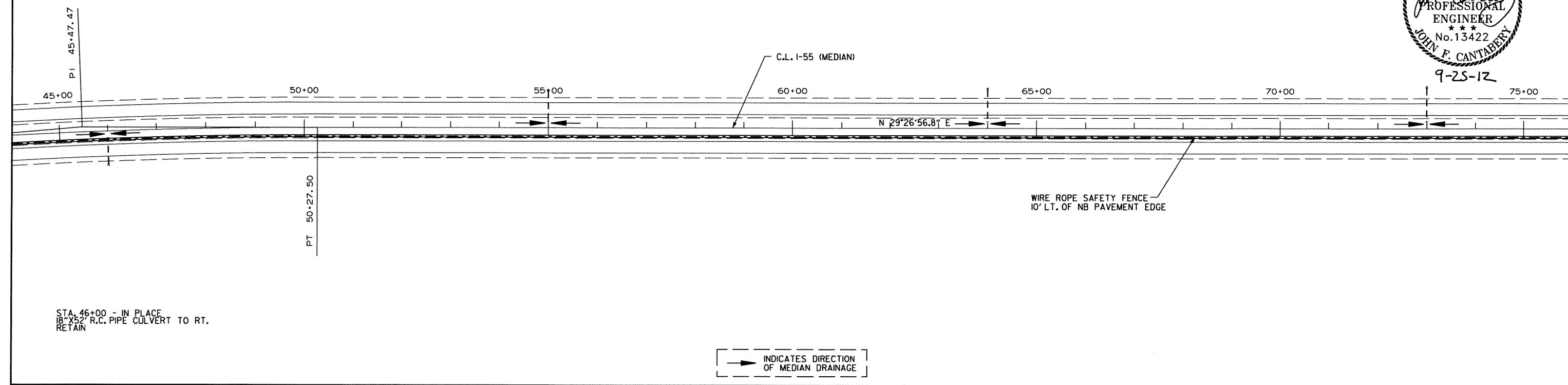
| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 60 | 93 |

C.L. I-55
 P.I. = 45+47.47
 = 48' 11.1" RT.
 = 00' 30' 00"
 = 480.59
 = 960.62
 P.C. = 40+66.88
 P.T. = 50+27.50

STA. 55+00 - IN PLACE
 18" X 60" R.C. PIPE CULVERT TO LT.
 RETAIN

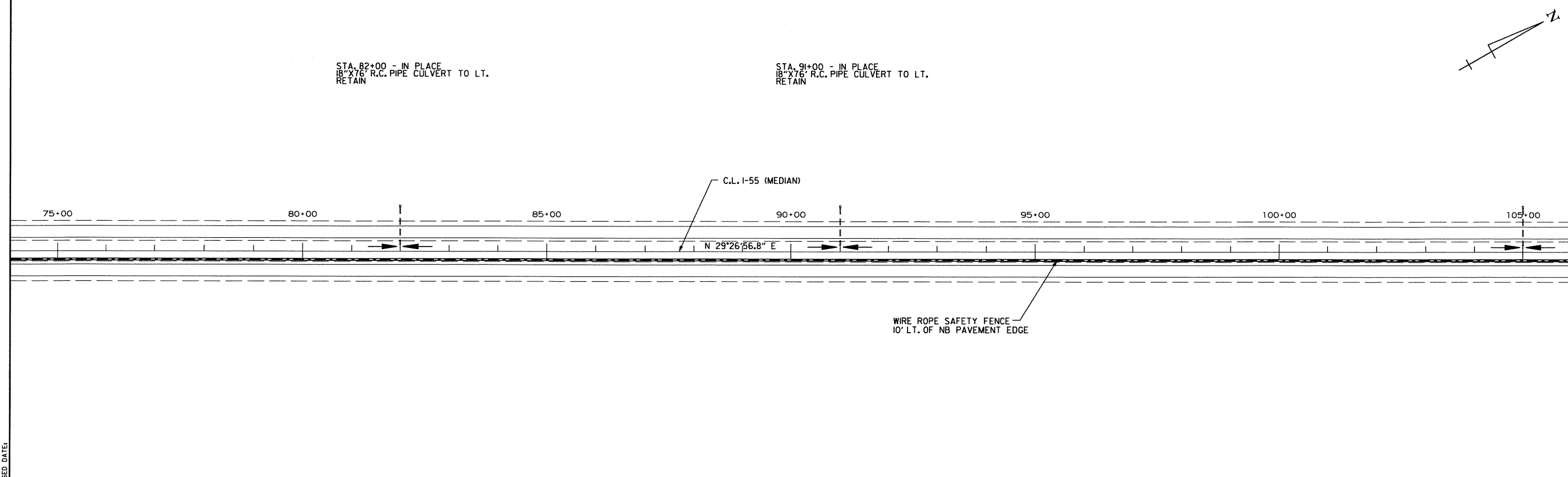
STA. 64+00 - IN PLACE
 18" X 64" R.C. PIPE CULVERT TO LT.
 RETAIN

STA. 73+00 - IN PLACE
 18" X 68" R.C. PIPE CULVERT TO LT.
 RETAIN



STA. 82+00 - IN PLACE
 18" X 76" R.C. PIPE CULVERT TO LT.
 RETAIN

STA. 91+00 - IN PLACE
 18" X 76" R.C. PIPE CULVERT TO LT.
 RETAIN



DWYANDELL 9/20/2012 10:42:15 AM
 WORKSPACE: AHTD
 \\\GJTDG01\ITProjects\2011\011702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Fayetteville\BB_PP_12.dgn
 REVISED DATE:

9/20/2012 10:42:16 AM
 DWYANDELL
 WORKSPACE: AHTD
 \\GLITDCO\LITP\Projects\2010\1017702 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 02167 - Blytheville\BB_PP_13.dgn
 REVISED DATE:

STA. 105+00 - IN PLACE
 18" X 76" R.C. PIPE CULVERT TO LT.
 RETAIN

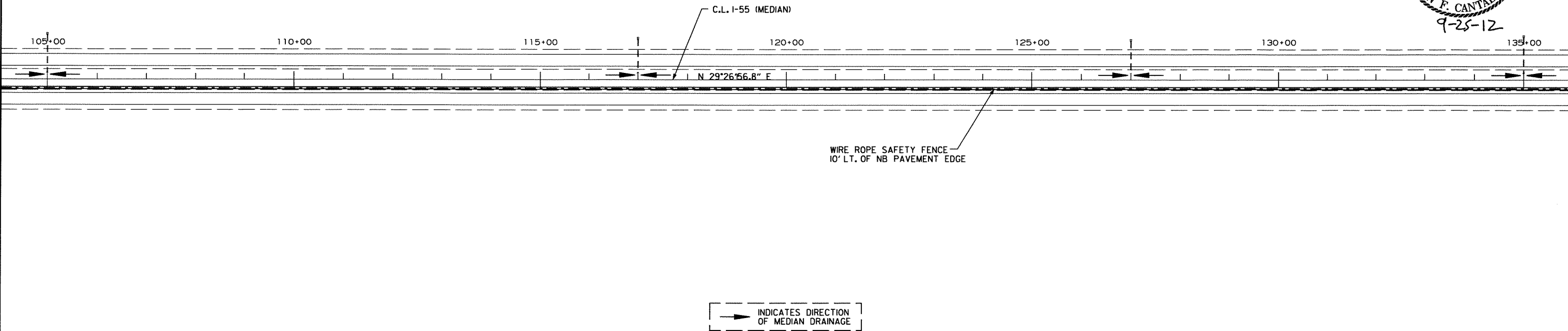
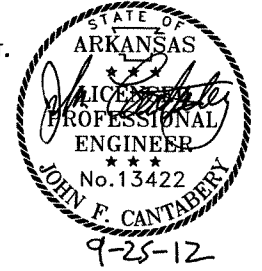
STA. 117+00 - IN PLACE
 18" X 68" R.C. PIPE CULVERT TO LT.
 RETAIN

STA. 127+00 - IN PLACE
 18" X 64" R.C. PIPE CULVERT TO LT.
 RETAIN

STA. 135+00 - IN PLACE
 18" X 72" R.C. PIPE CULVERT TO LT.
 RETAIN

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. | 012167 |
| | | | | | | | | 61 |
| | | | | | | | | 93 |

PLAN SHEETS

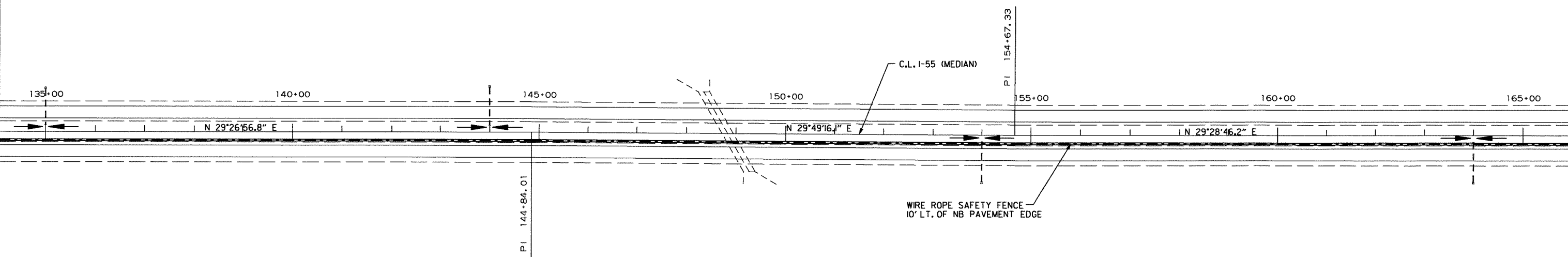


STA. 144+00 - IN PLACE
 18" X 76" R.C. PIPE CULVERT TO LT.
 RETAIN

STA. 148+83 - IN PLACE
 DBL 10" X 9" X 185' R.C. BOX CULVERT
 30° RT. FWD. SKEW.
 RETAIN

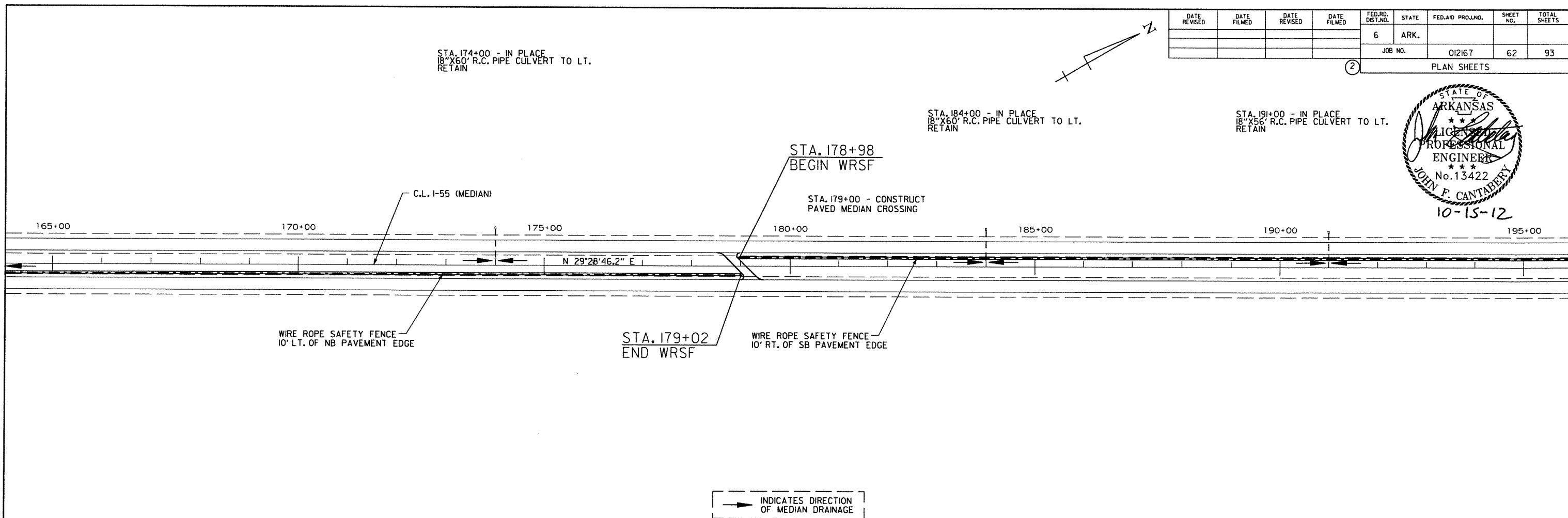
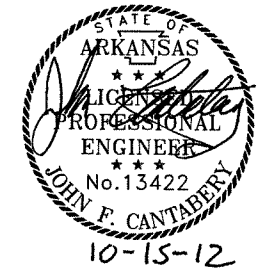
STA. 154+00 - IN PLACE
 18" X 80" R.C. PIPE CULVERT TO RT.
 RETAIN

STA. 164+00 - IN PLACE
 18" X 80" R.C. PIPE CULVERT TO RT.
 RETAIN

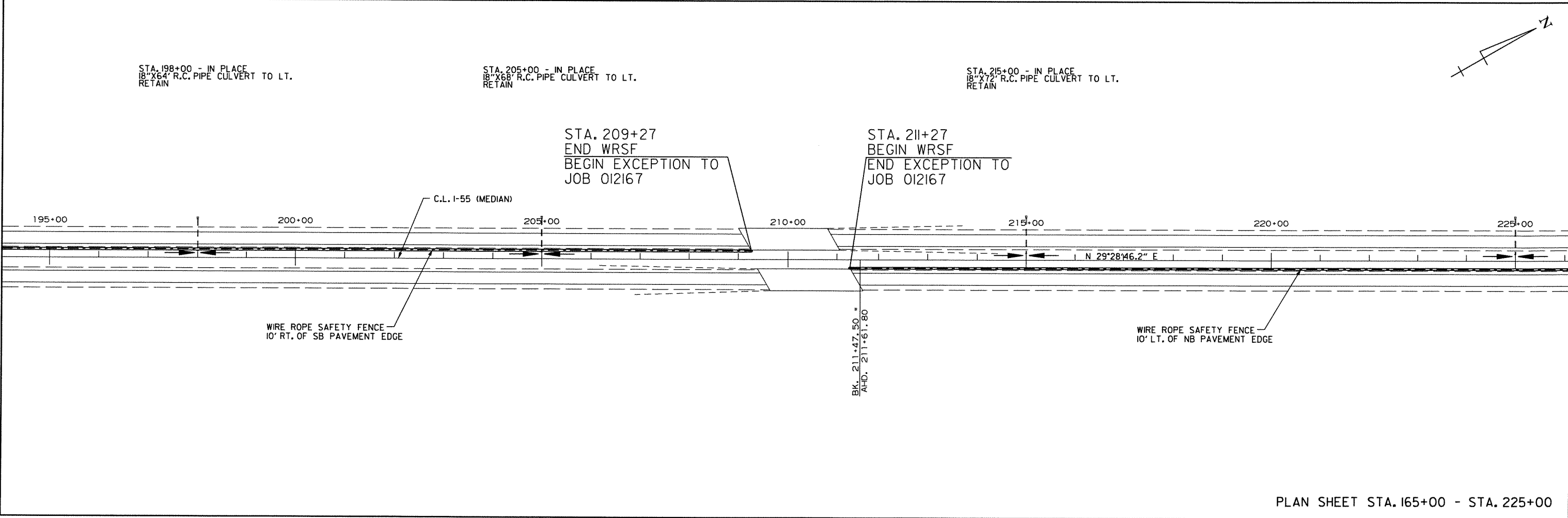


| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 62 | 93 |

2 PLAN SHEETS



INDICATES DIRECTION OF MEDIAN DRAINAGE



DWYANDELL 10/12/2012 1:54:38 PM
 WORKSPACE: AHTD
 \\CLUTDC01\ITP-objects\2011\017702 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 012167 - Blytheville\BB_PP_14.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. | |
| | | | | | | | 012167 | |
| | | | | | | | 63 | 93 |

PLAN SHEETS



STA. 225+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

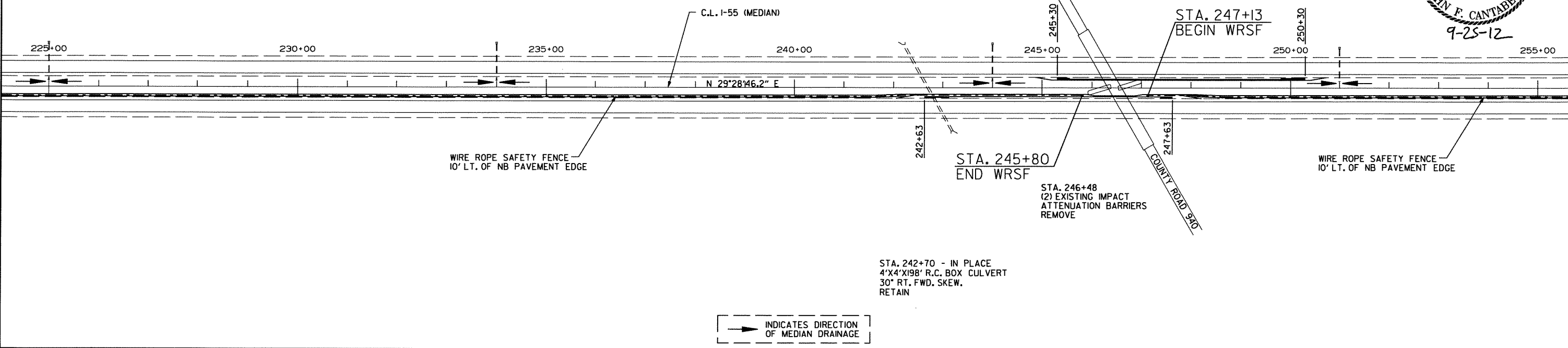
STA. 234+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

FURNISHING AND INSTALLING GUARDRAIL
STA. 242+63 - STA. 247+63 NB SHOULDER 450
STA. 245+30 - STA. 250+30 SB SHOULDER 450

GUARDRAIL (TYPE A) 450
TERMINAL ANCHOR POST (TYPE 1) 1 EACH
GUARDRAIL TERMINAL (TYPE 2) 1 EACH

STA. 244+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

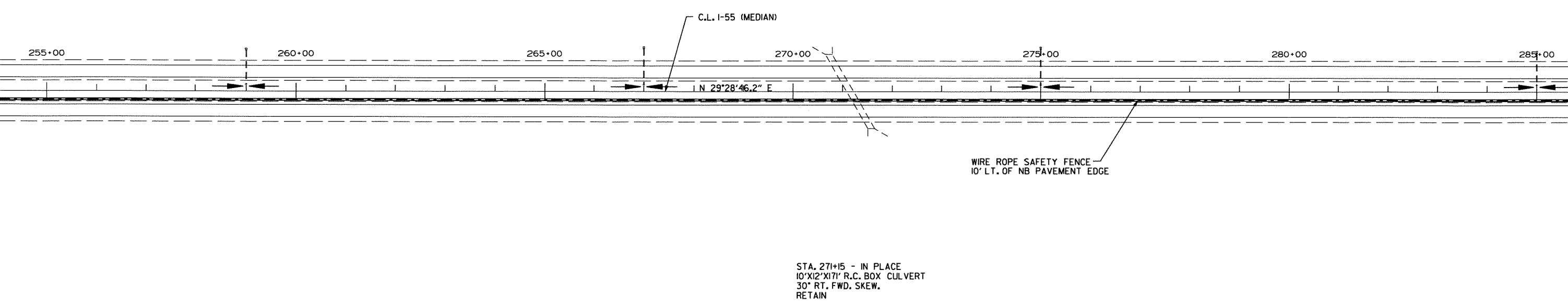
STA. 251+00 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO LT.
RETAIN



STA. 259+00 - IN PLACE
18" X 68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 267+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

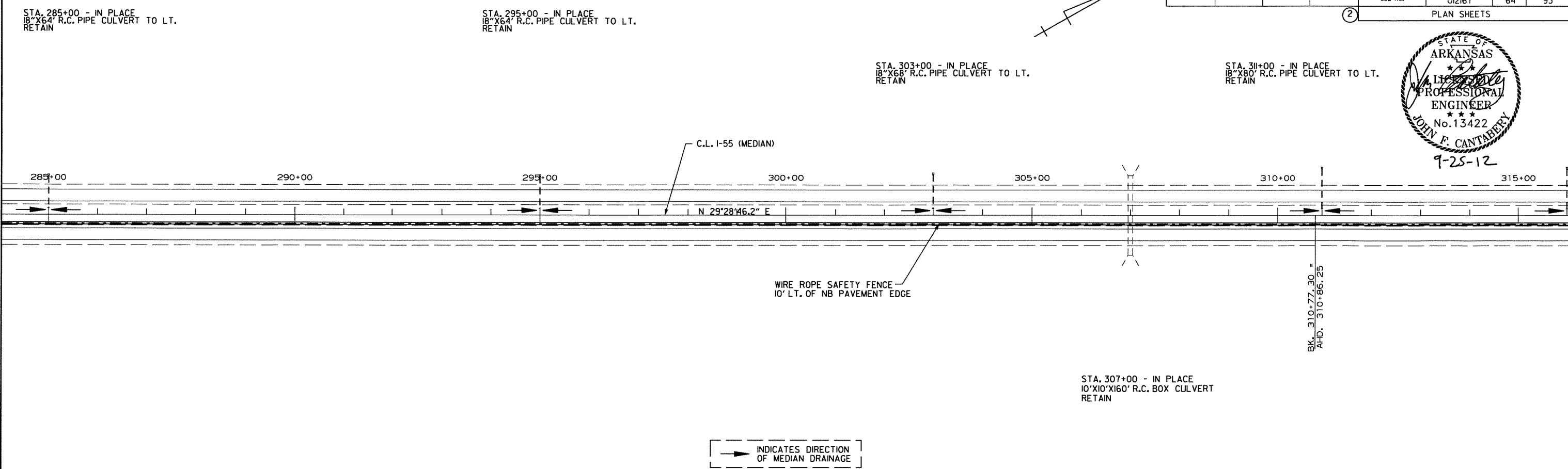
STA. 275+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN



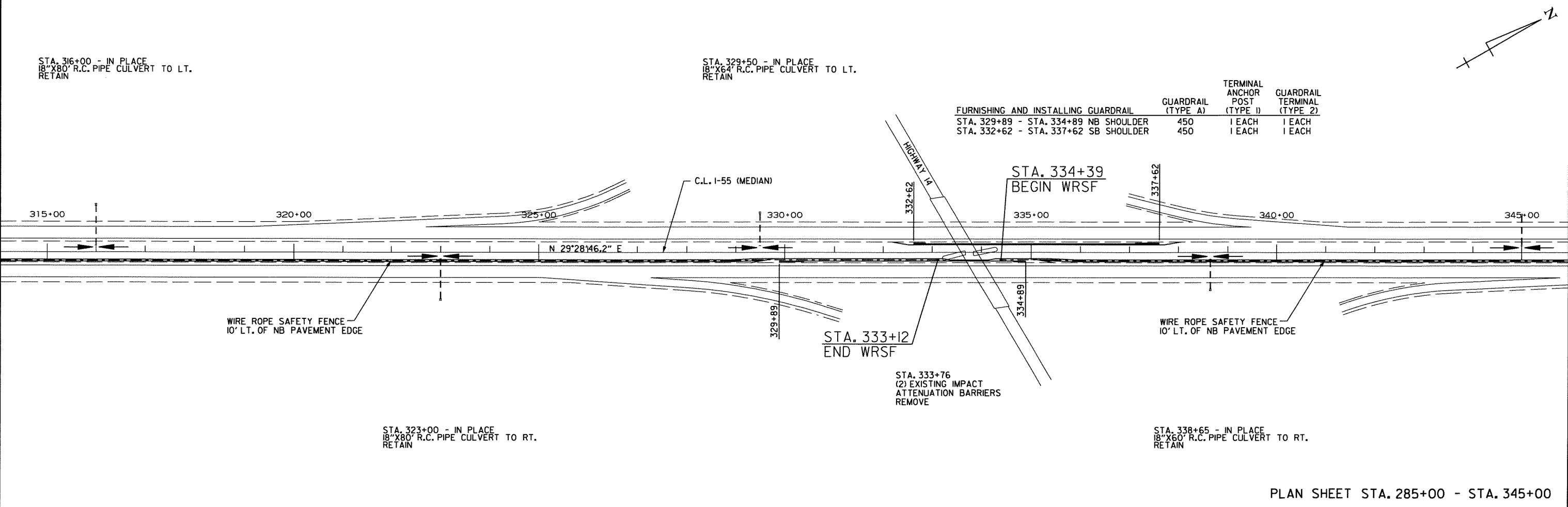
PLAN SHEET STA. 225+00 - STA. 285+00

DWYANDELL 9/20/2012 10:42:18 AM
 WORKSPACE: AHTD
 \GLTDCO\LITF-Proj\Projects\2011\017102 - AHTD Cable Median Barriers - TO 0013\Dr-wings\JOB 012167 - Blytheville\BB_PP_15.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | JOB NO. 012167 | 64 | 93 |
| PLAN SHEETS | | | | | | | | |



→ INDICATES DIRECTION OF MEDIAN DRAINAGE



| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 329+89 - STA. 334+89 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 332+62 - STA. 337+62 SB SHOULDER | 450 | 1 EACH | 1 EACH |

9/20/2012 10:42:19 AM
 DWYANDELL WORKSPACE: AHTD
 \\GLTDC01\IT\Projects\2011\011702 - AHTD Coble Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_PP_16.dgn
 REVISED DATE:

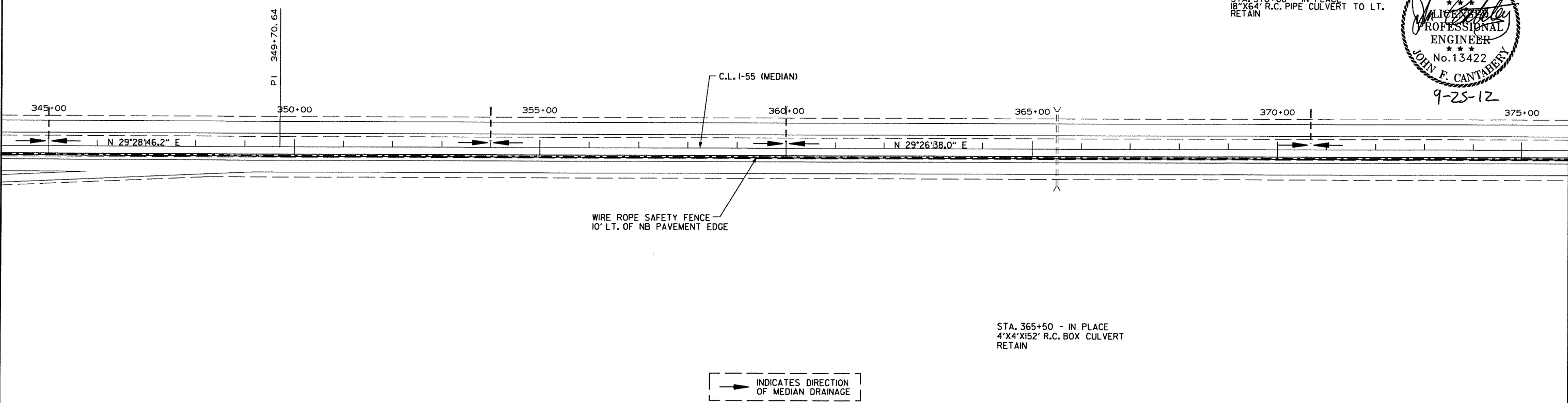
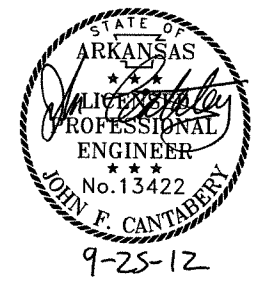
| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 65 | 93 |
| PLAN SHEETS | | | | | | | | |

STA. 345+00 - IN PLACE
18" X 60' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 354+00 - IN PLACE
18" X 64' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 360+00 - IN PLACE
18" X 68' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 370+68 - IN PLACE
18" X 64' R.C. PIPE CULVERT TO LT.
RETAIN



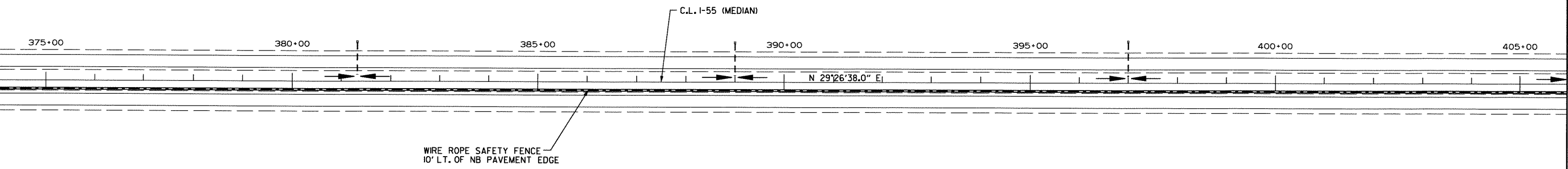
INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 365+50 - IN PLACE
4' X 4' X 152' R.C. BOX CULVERT
RETAIN

STA. 381+32 - IN PLACE
18" X 64' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 389+00 - IN PLACE
18" X 64' R.C. PIPE CULVERT TO LT.
RETAIN

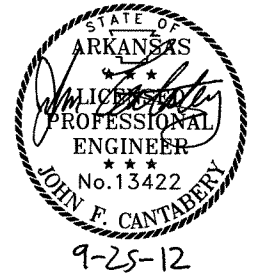
STA. 397+00 - IN PLACE
18" X 68' R.C. PIPE CULVERT TO LT.
RETAIN



DWYANDELL 9/20/2012 10:45:20 AM
 WORKSPACE: AHTD \\AHTD\CD\Projects\2011\017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Bytheville\BB_PP.IT.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|----------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| JOB NO. 012167 | | | | | | | 66 | 93 |

2 PLAN SHEETS

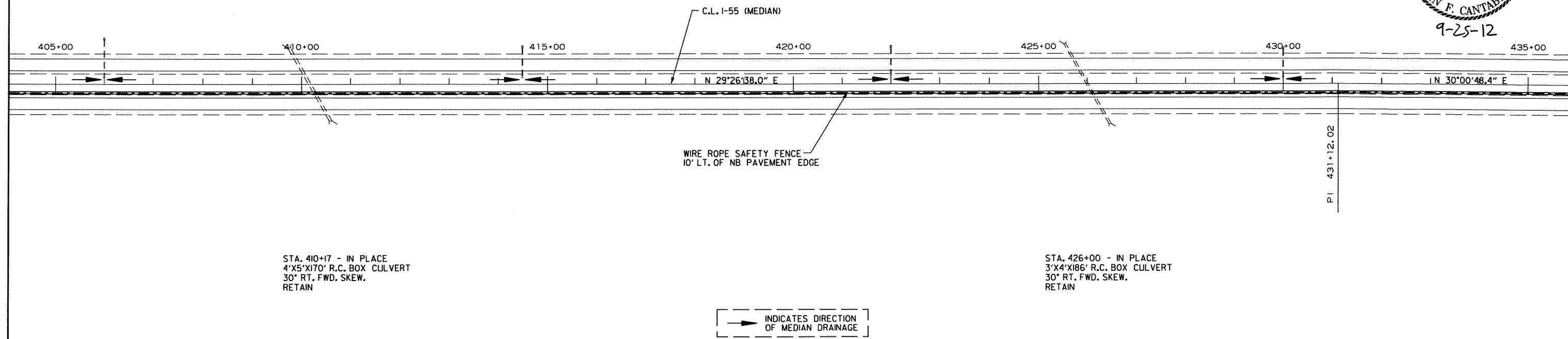


STA. 406+00 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 414+50 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 422+00 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 430+00 - IN PLACE
18" X 56" R.C. PIPE CULVERT TO LT.
RETAIN



STA. 410+17 - IN PLACE
4' X 5' X 170' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN

STA. 426+00 - IN PLACE
3' X 4' X 186' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN

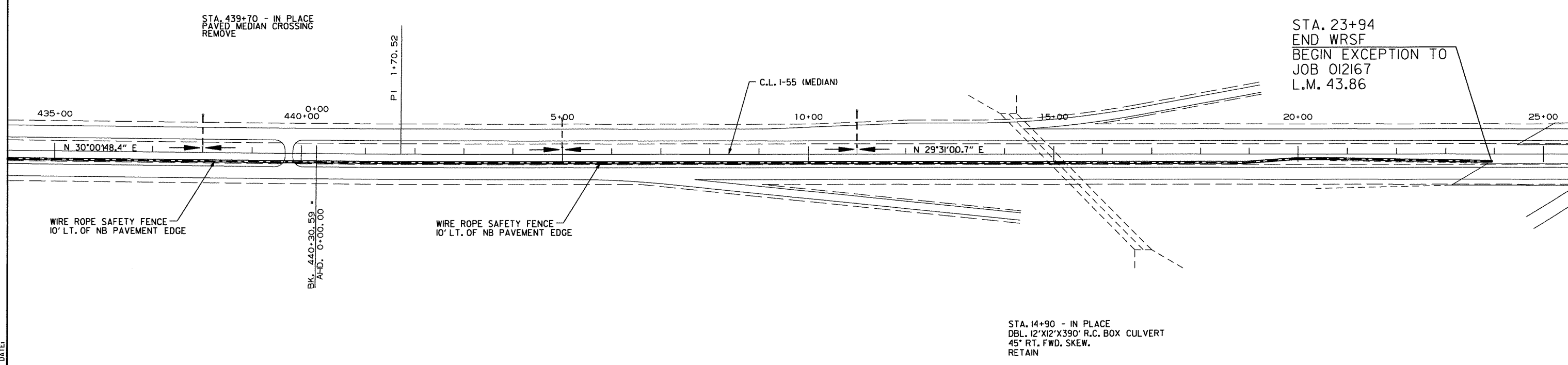
INDICATES DIRECTION
OF MEDIAN DRAINAGE

STA. 438+00 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 5+00 - IN PLACE
18" X 56" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 11+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 23+94
END WRSF
BEGIN EXCEPTION TO
JOB 012167
L.M. 43.86



STA. 14+90 - IN PLACE
DBL. 12' X 12' X 390' R.C. BOX CULVERT
45° RT. FWD. SKEW.
RETAIN

DWYANDELL 9/20/2012 10:42:21 AM
 WORKSPACE: AHTD
 \\GLTDCON\ITPrj\Projects\2011\0117102 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_PP_IB.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. | TOTAL SHEETS |
| | | | | | | | 012167 | 67 93 |

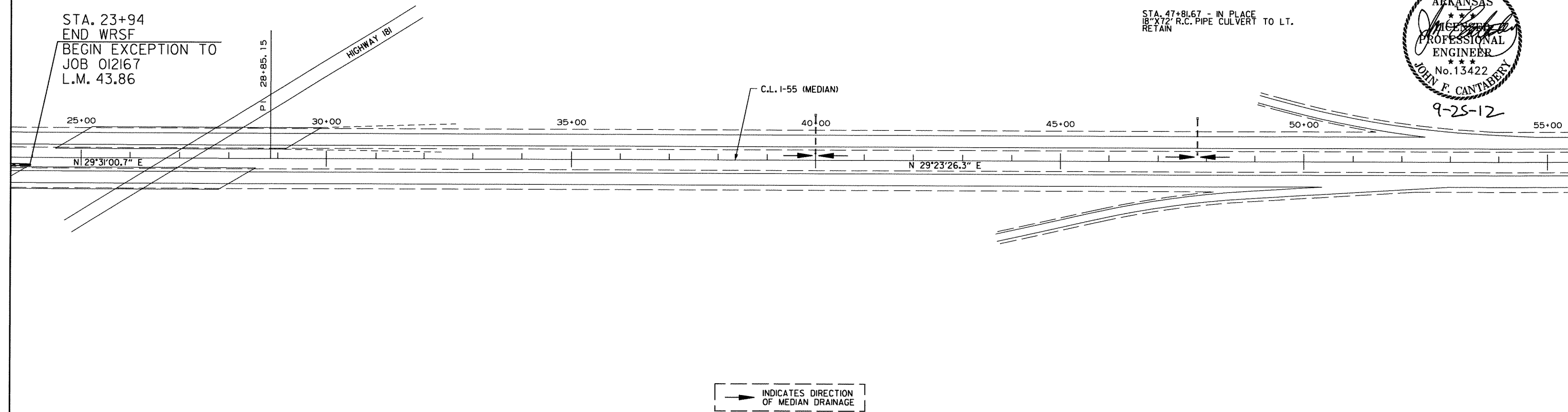
2 PLAN SHEETS



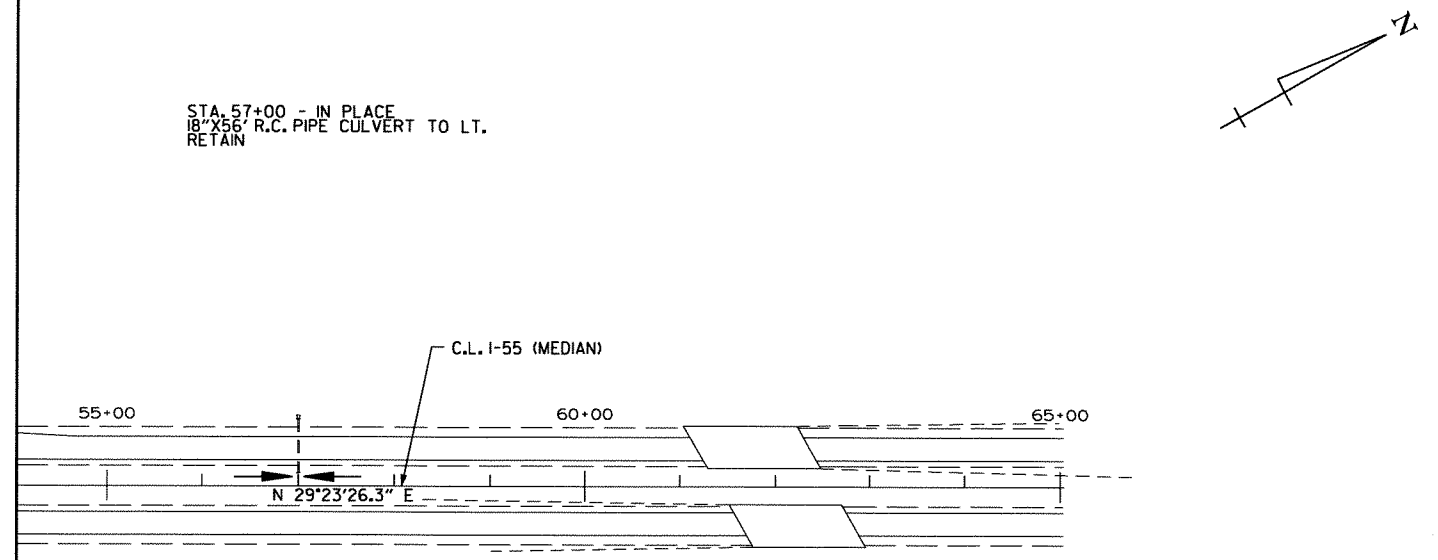
STA. 40+00 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 47+81.67 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 23+94
END WRSF
BEGIN EXCEPTION TO
JOB 012167
L.M. 43.86



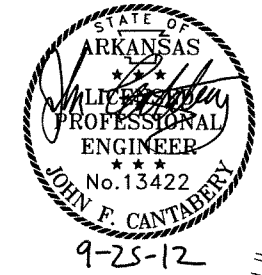
STA. 57+00 - IN PLACE
18" X 56" R.C. PIPE CULVERT TO LT.
RETAIN



DWYANDELL 9/21/2012 2:59:57 PM
 WORKSPACE: AHTD
 \\GLITDC01\IT\Projects\20\1017702 - AHTD Coble Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_PP_19.dgn
 REVISION DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 68 | 93 |

PLAN SHEETS



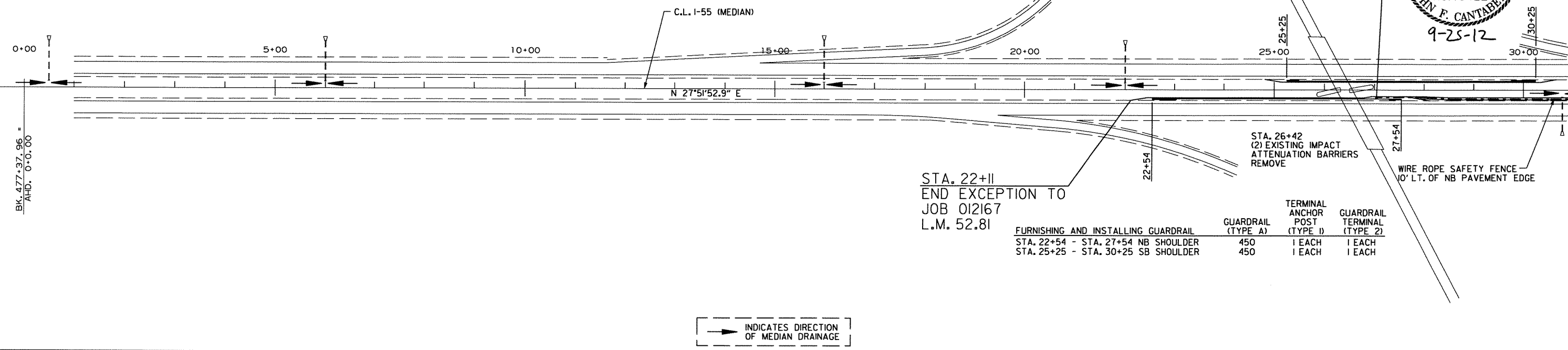
STA. 0+50 - IN PLACE
18" X 80" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 6+00 - IN PLACE
18" X 80" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 16+00 LT. - IN PLACE
18" X 84" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 22+00 LT. - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 27+04
BEGIN WRSF



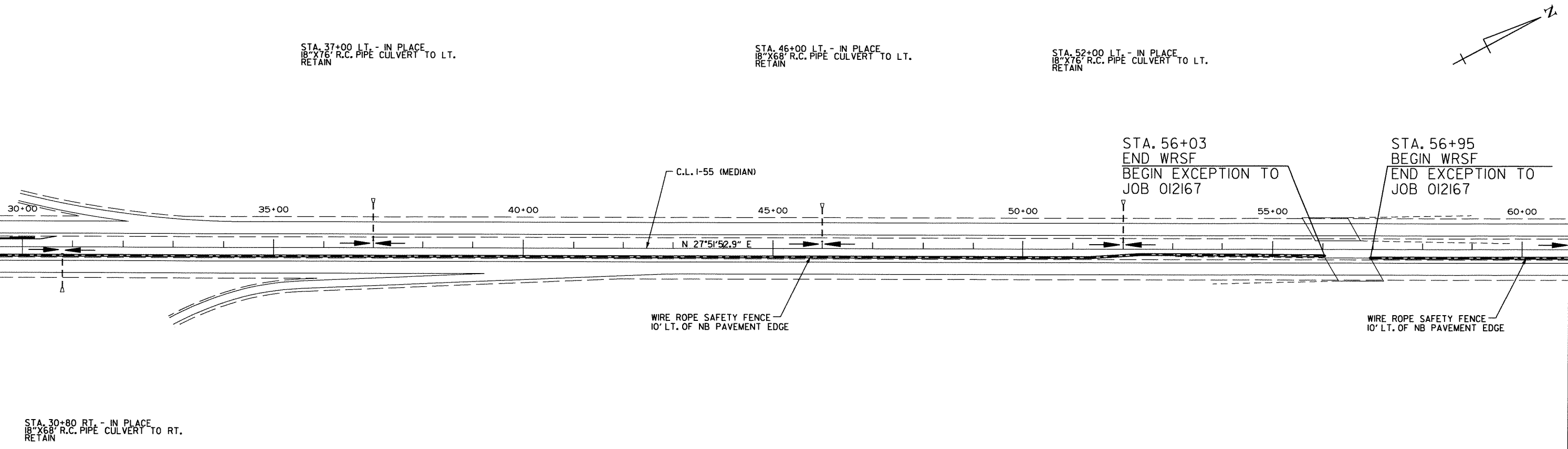
| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE I) | GUARDRAIL TERMINAL (TYPE 2) |
|-------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 22+54 - STA. 27+54 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 25+25 - STA. 30+25 SB SHOULDER | 450 | 1 EACH | 1 EACH |

INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 37+00 LT. - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 46+00 LT. - IN PLACE
18" X 68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 52+00 LT. - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN



STA. 30+80 RT. - IN PLACE
18" X 68" R.C. PIPE CULVERT TO RT.
RETAIN

STA. 56+03
END WRSF
BEGIN EXCEPTION TO
JOB 012167

STA. 56+95
BEGIN WRSF
END EXCEPTION TO
JOB 012167

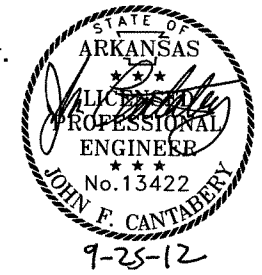
WIRE ROPE SAFETY FENCE
10' LT. OF NB PAVEMENT EDGE

WIRE ROPE SAFETY FENCE
10' LT. OF NB PAVEMENT EDGE

DWYANDELL 9/24/2012 4:00:07 PM
 WORKSPACE: AHTD \Projects\2011\0171702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By theville\BB_PP_20.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|--------------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. | 012167 |
| | | | | | | | SHEET NO. | 69 |
| | | | | | | | TOTAL SHEETS | 93 |

② PLAN SHEETS



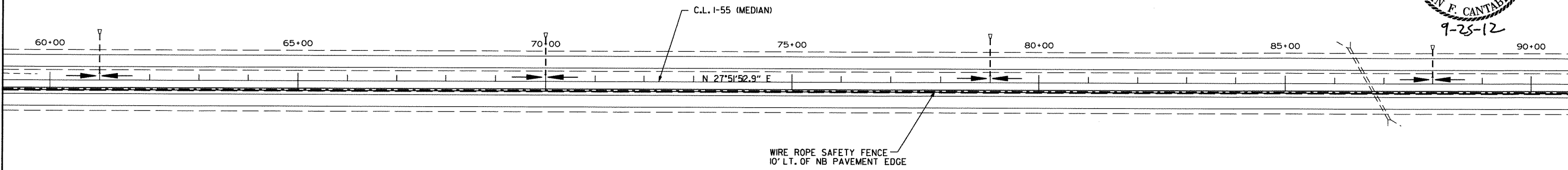
STA. 61+00 LT. - IN PLACE
18" X 80' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 70+00 LT. - IN PLACE
18" X 76' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 79+00 LT. - IN PLACE
18" X 76' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 86+70 - IN PLACE
5' X 5' X 166' R.C. BOX CULVERT
30' RT. FWD. SKEW.
RETAIN

STA. 88+00 - IN PLACE
18" X 56' R.C. PIPE CULVERT TO LT.
RETAIN



INDICATES DIRECTION OF MEDIAN DRAINAGE

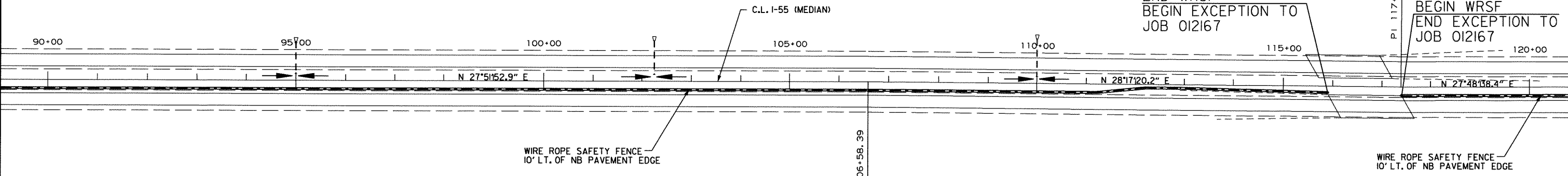
STA. 95+00 - IN PLACE
18" X 64' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 102+25 - IN PLACE
18" X 68' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 110+00 - IN PLACE
18" X 76' R.C. PIPE CULVERT TO LT.
RETAIN

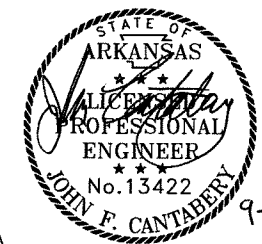
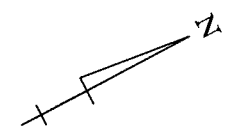
STA. 115+89
END WRSF
BEGIN EXCEPTION TO
JOB 012167

STA. 117+41
BEGIN WRSF
END EXCEPTION TO
JOB 012167



DWYANDELL 9/20/2012 10:42:22 AM
 WORKSPACE: AHTD
 \\\G\LTDCO\ALITF\Projects\2011\017102 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By theville\BB_PP_21.dgn
 REVISION DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS | |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|--|
| | | | | 6 | ARK. | | | | |
| | | | | JOB NO. | | 012167 | 70 | 93 | |
| (2) | | | | | | | | PLAN SHEETS | |



STA. 123+50 - IN PLACE
18" X 88' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 130+00 - IN PLACE
18" X 84' R.C. PIPE CULVERT TO LT.
RETAIN

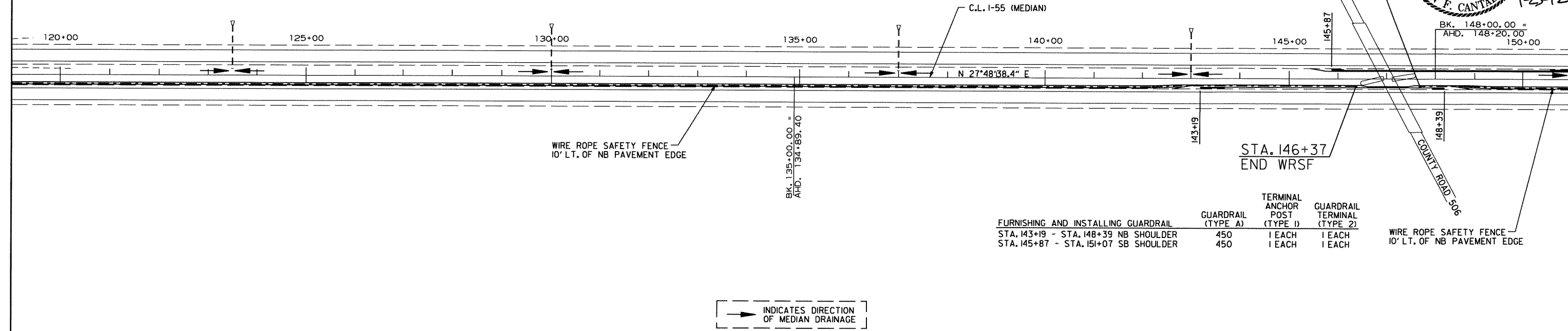
STA. 137+00 - IN PLACE
18" X 84' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 143+00 - IN PLACE
18" X 80' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 147+69
BEGIN WRSF

STA. 147+04
(2) EXISTING IMPACT
ATTENUATION BARRIERS
REMOVE

BK. 148+00.00 =
AHD. 148+20.00
150+00



INDICATES DIRECTION OF MEDIAN DRAINAGE

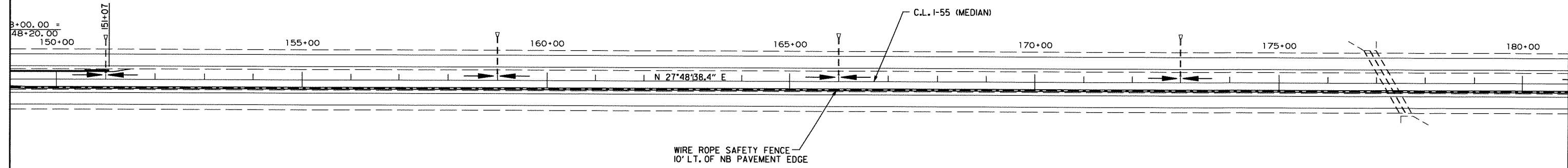
STA. 151+00 - IN PLACE
18" X 68' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 159+00 - IN PLACE
18" X 76' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 166+00 - IN PLACE
18" X 76' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 173+00 - IN PLACE
18" X 76' R.C. PIPE CULVERT TO LT.
RETAIN

STA. 177+25 - IN PLACE
DBL. 8' X 10' X 154' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN



DWYANDELL 9/20/2012 10:42:23 AM
 WORKSPACE, AHTD, \C:\LTDG01\Projects\2011\017102 - AHTD Coble Median Barriers - TO 0013\Drawings\JOB 012167 - Bytheville\BB_PP_22.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 71 | 93 |

② PLAN SHEETS

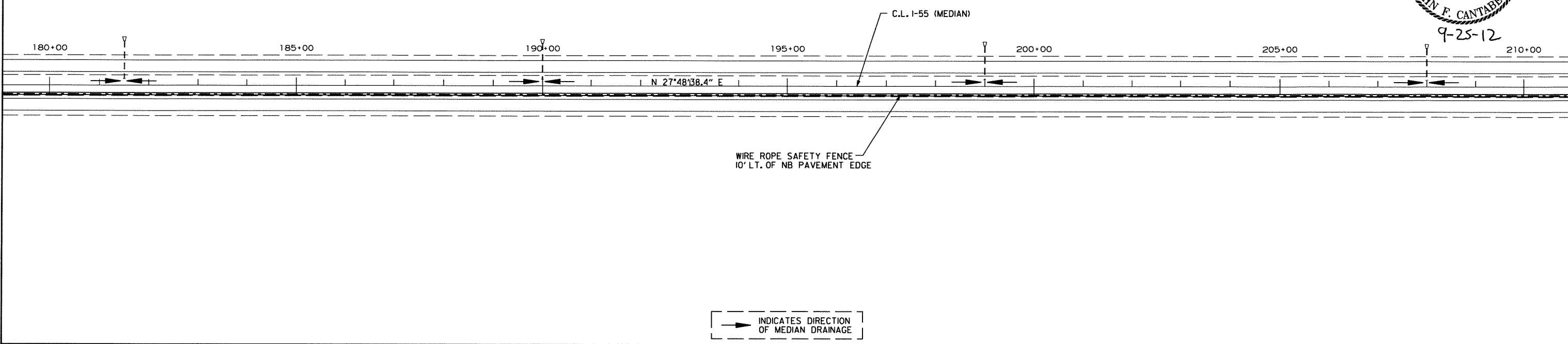


STA. 181+50 - IN PLACE
18"X76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 190+00 - IN PLACE
18"X72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 199+00 - IN PLACE
18"X68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 208+00 - IN PLACE
18"X64" R.C. PIPE CULVERT TO LT.
RETAIN

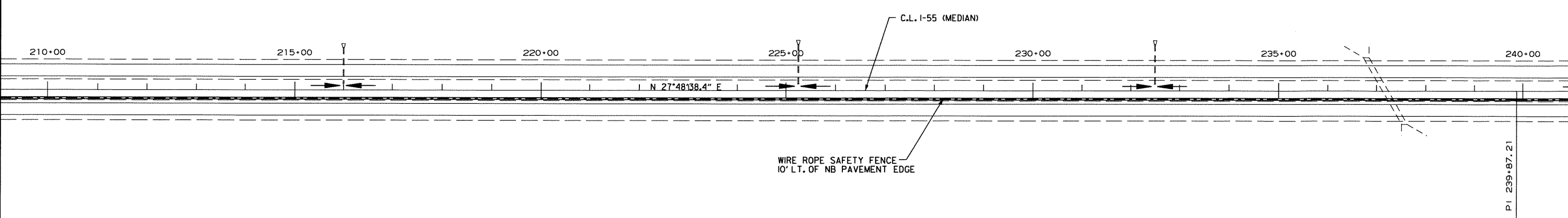


STA. 216+00 - IN PLACE
18"X72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 225+25 - IN PLACE
18"X80" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 232+50 - IN PLACE
18"X80" R.C. PIPE CULVERT TO LT.
RETAIN

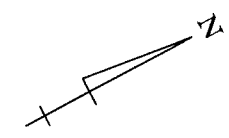
STA. 237+18 - IN PLACE
10'X10'X155' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN



DWYANDELL 9/20/2012 10:42:24 AM
 WORKSPACE: AHTD
 \\GLTDC001\ITProjects\2011\017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By the Villa\BB_PP_23.dgn
 REVISED DATE:

P 1 239+87.21

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 72 | 93 |
| | | | | (2) PLAN SHEETS | | | | |



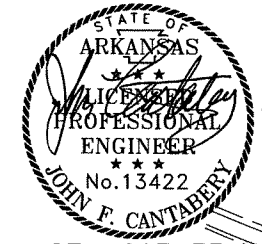
STA. 241+50 - IN PLACE
18" X 84" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 249+00 - IN PLACE
18" X 84" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 256+00 - IN PLACE
18" X 84" R.C. PIPE CULVERT TO LT.
RETAIN

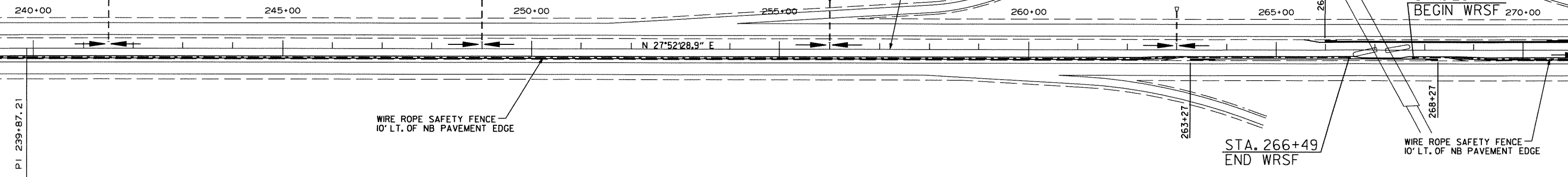
STA. 263+00 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 267+13
(2) EXISTING IMPACT
ATTENUATION BARRIERS
REMOVE



9-25-12

STA. 267+77
BEGIN WRSF 270+00



| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 263+27 - STA. 268+27 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 265+99 - STA. 270+99 SB SHOULDER | 450 | 1 EACH | 1 EACH |

INDICATES DIRECTION OF MEDIAN DRAINAGE

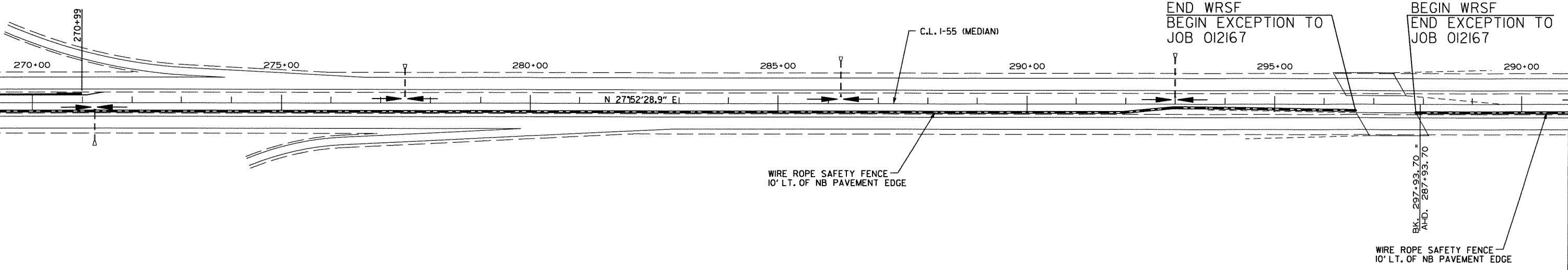
STA. 277+50 - IN PLACE
18" X 56" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 285+25 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 293+00 - IN PLACE
18" X 80" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 296+63
END WRSF
BEGIN EXCEPTION TO
JOB 012167

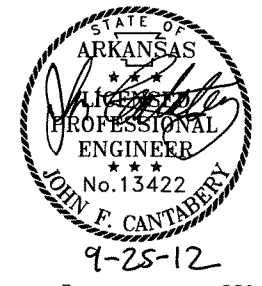
STA. 297+85
BEGIN WRSF
END EXCEPTION TO
JOB 012167



STA. 271+25 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO RT.
RETAIN

DWYANDELL 9/20/2012 10:42:24 AM
 WORKSPACE, AHTD, \\CLITDC01\IT\Projects\2011\017102 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 012167 - Blytheville\BB_PP_24.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS | |
|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|--|
| | | | | 6 | ARK. | | | | |
| | | | | JOB NO. | 012167 | | 73 | 93 | |
| (2) | | | | | | | | PLAN SHEETS | |

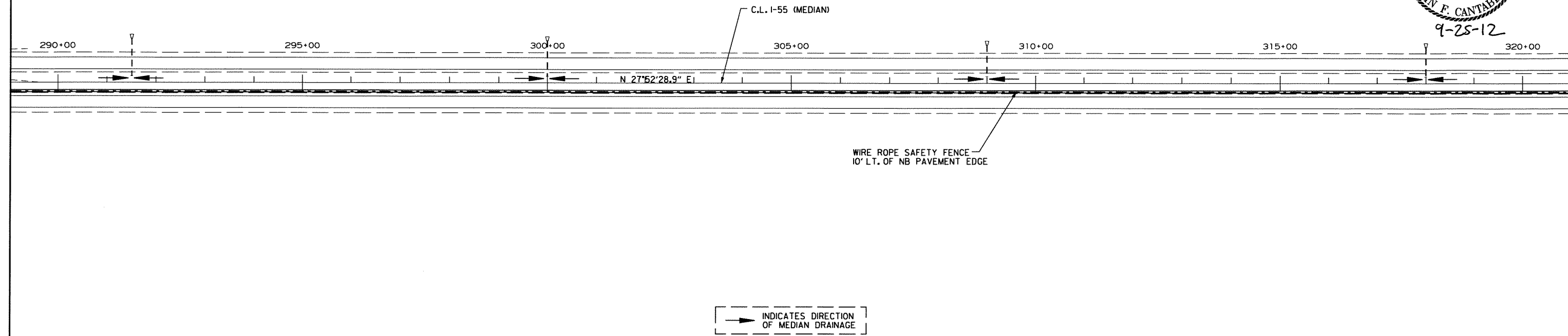


STA. 291+50 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 300+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 309+00 - IN PLACE
18" X 54" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 318+00 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN



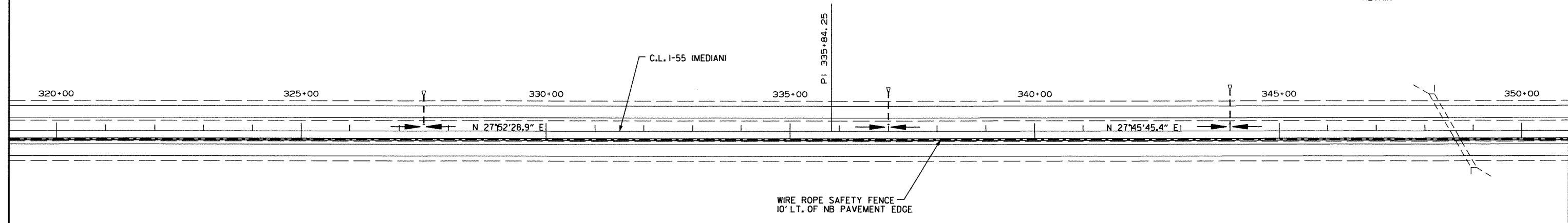
INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 327+50 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 337+00 - IN PLACE
18" X 68" R.C. PIPE CULVERT TO LT.
RETAIN

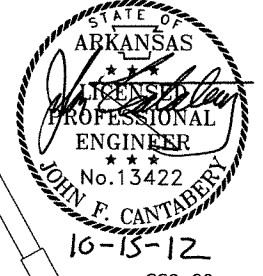
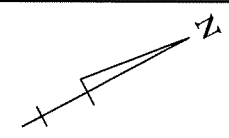
STA. 344+00 - IN PLACE
18" X 72" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 348+58 - IN PLACE
10' X 8' X 173' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN



DWYANDELL 9/20/2012 10:42:25 AM
 WORKSPACE: AHTD
 \\GLJTD001\IT\Projects\2011\017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 02167 - Blytheville\BB_PP_25.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS | |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|--|
| | | | | 6 | ARK. | | | | |
| | | | | JOB NO. | | 012167 | 74 | 93 | |
| (2) | | | | | | | | PLAN SHEETS | |



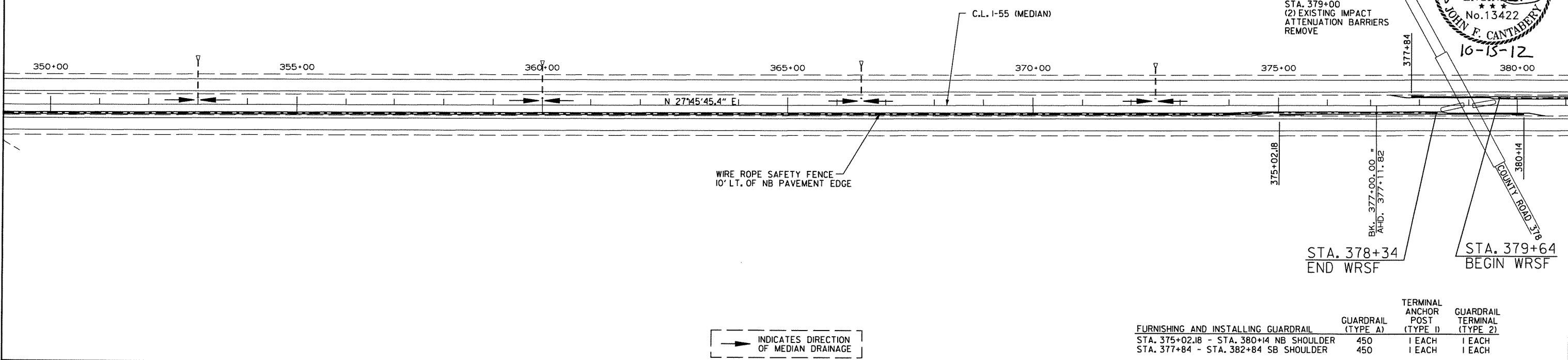
STA. 353+00 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 360+00 - IN PLACE
18" X 68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 366+50 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 372+50 - IN PLACE
18" X 64" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 379+00
(2) EXISTING IMPACT
ATTENUATION BARRIERS
REMOVE



INDICATES DIRECTION OF MEDIAN DRAINAGE

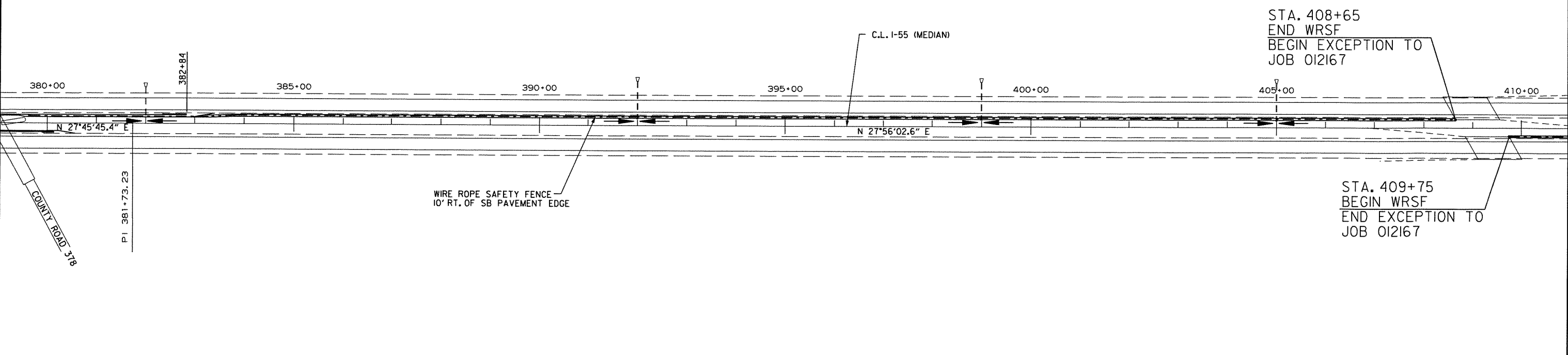
STA. 382+00 - IN PLACE
18" X 60" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 392+00 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 399+00 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 405+00 - IN PLACE
18" X 76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 408+65
END WRSF
BEGIN EXCEPTION TO
JOB 012167



INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 409+75
BEGIN WRSF
END EXCEPTION TO
JOB 012167

DWYANDELL 10/12/2012 1:55:02 PM
 WORKSPACE: AHTD
 \\GLTDCON\ITPrj\012167 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By:theville\BB_PP_26.dgn
 REVISION DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | JOB NO. | 012167 | 75 |
| | | | | | | PLAN SHEETS | | |

2

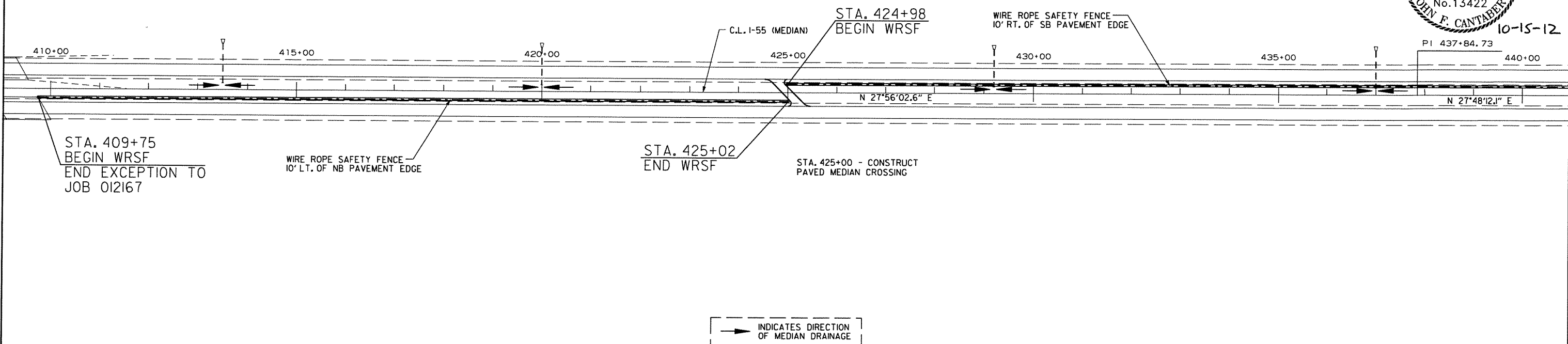


STA. 413+50 - IN PLACE
18"X80" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 420+00 - IN PLACE
18"X76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 429+20 - IN PLACE
18"X76" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 437+00 - IN PLACE
18"X76" R.C. PIPE CULVERT TO LT.
RETAIN



INDICATES DIRECTION OF MEDIAN DRAINAGE

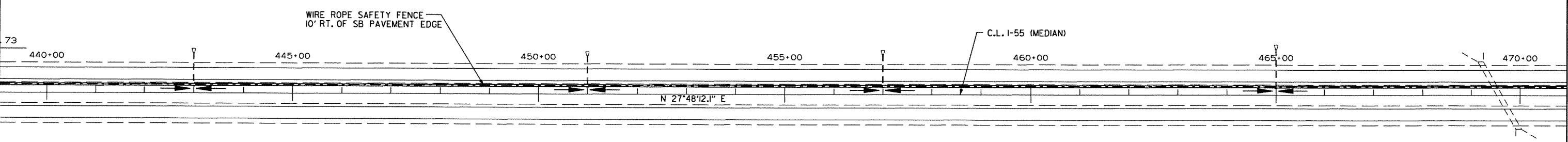
STA. 443+00 - IN PLACE
18"X68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 451+00 - IN PLACE
18"X64" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 457+00 - IN PLACE
18"X68" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 465+00 - IN PLACE
18"X80" R.C. PIPE CULVERT TO LT.
RETAIN

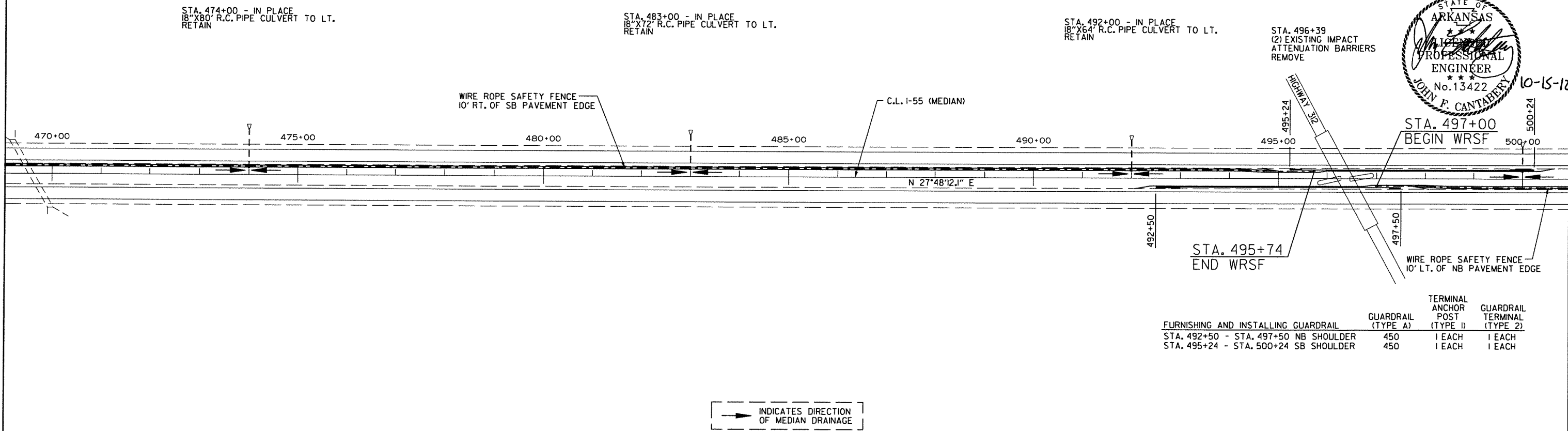
STA. 469+58 - IN PLACE
10'X10'X157' R.C. BOX CULVERT
30° RT. FWD. SKEW.
RETAIN



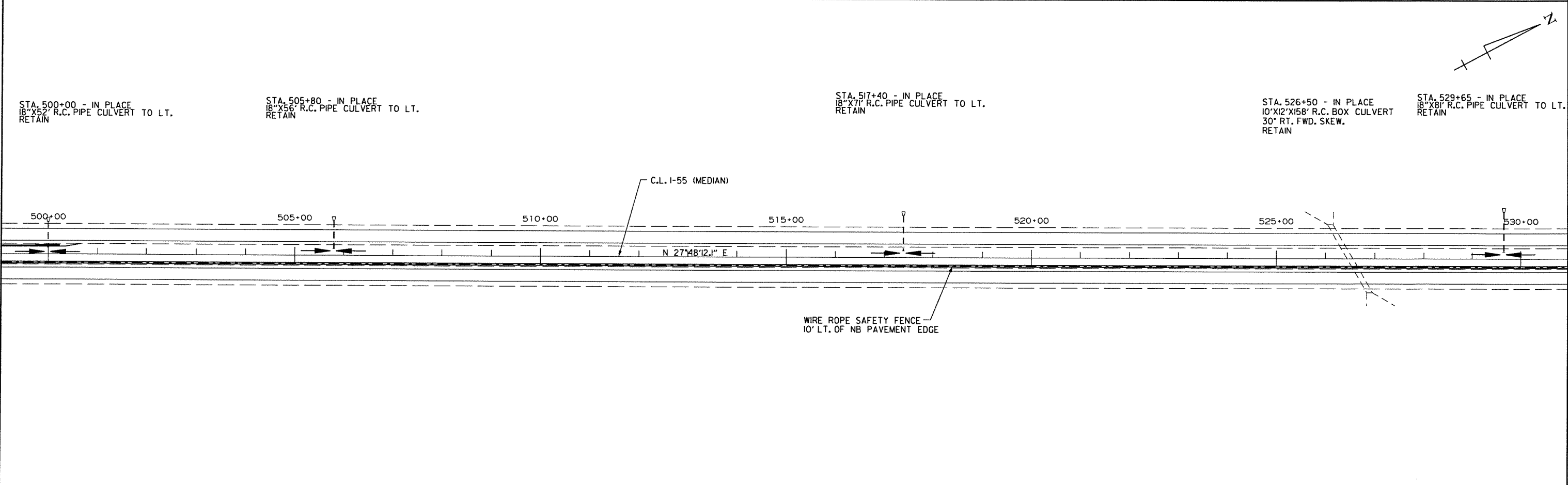
DRYANDELL 10/12/2012 1:55:02 PM
 WORKSPACE: AHTD
 \\GLITDCON\IT\Projects\2011\017702 - AHTD Cable Median Barriers - TO 003\Drawings\JOB 012167 - Blytheville\BB_PP_27.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 76 | 93 |

2 PLAN SHEETS



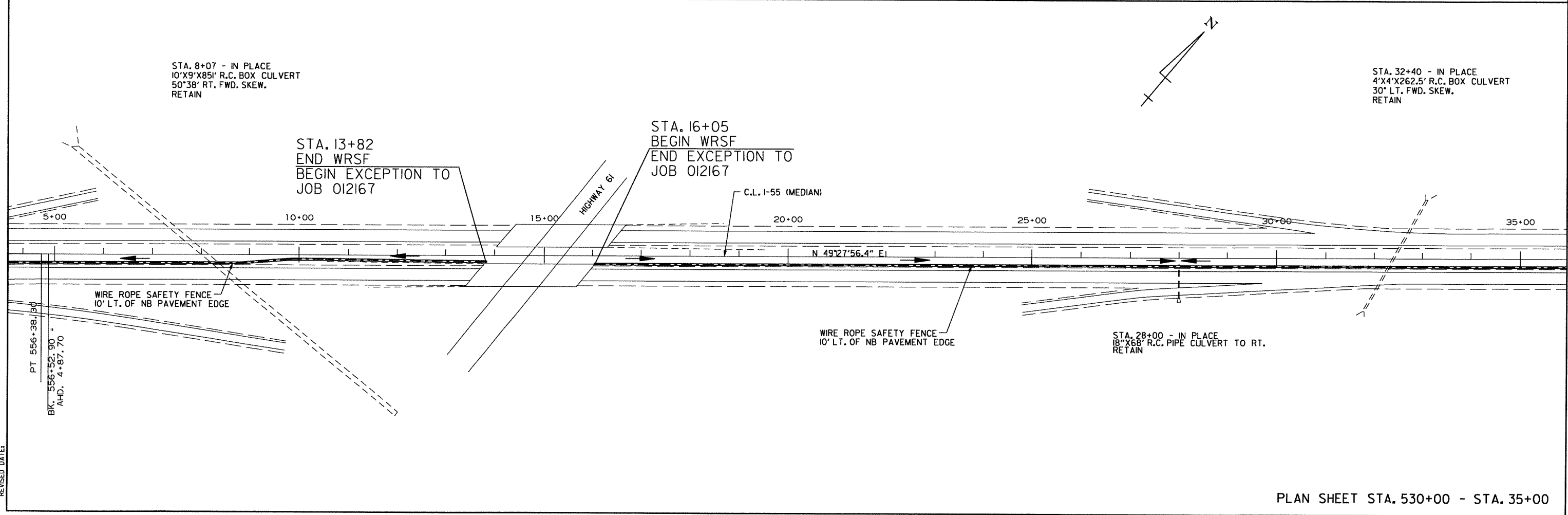
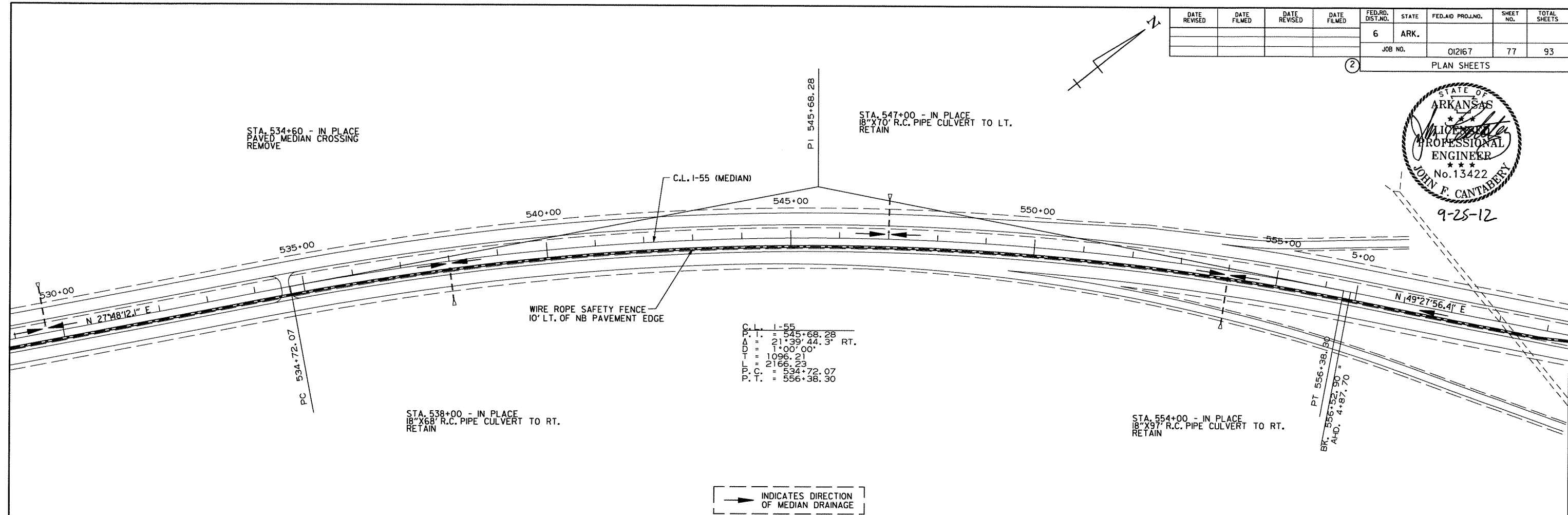
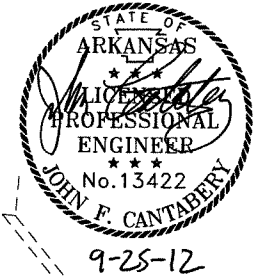
INDICATES DIRECTION OF MEDIAN DRAINAGE



PLAN SHEET STA. 470+00 - STA. 530+00

DWYANDELL 10/12/2012 4:55:03 PM
 WORKSPACE: AHTD \\G:\ITDCO\AL\Projects\2011\01171702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By theville\BB_PP_28.dgn
 REVISED DATE:

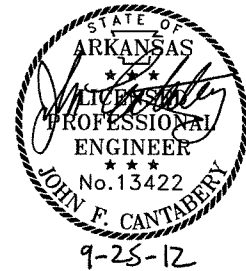
| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|----------------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. 012167 | 77 93 |
| PLAN SHEETS | | | | | | | | |



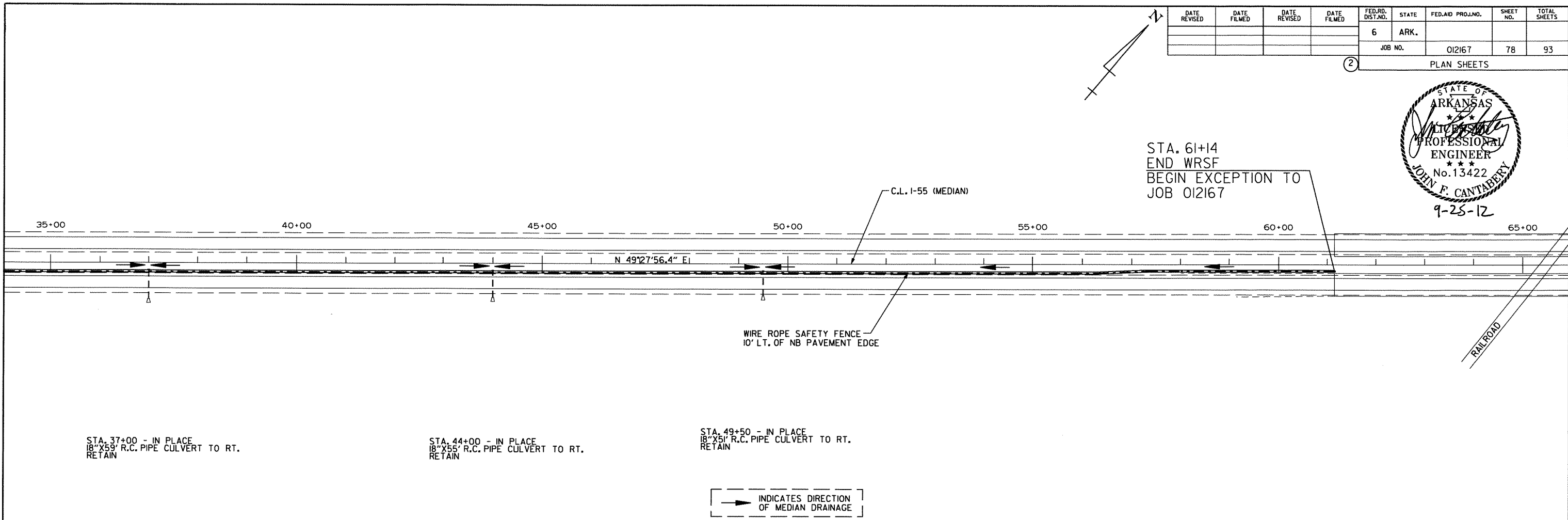
DWYANDELL 9/20/2012 10:42:27 AM
 WORKSPACE: AHTD
 \\GLITDCO\IT\Projects\2011\017702 - AHTD Cable Median Barriers - TO 001\Drawings\JOB 012167 - Blytheville\BB_PP_29.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 78 | 93 |

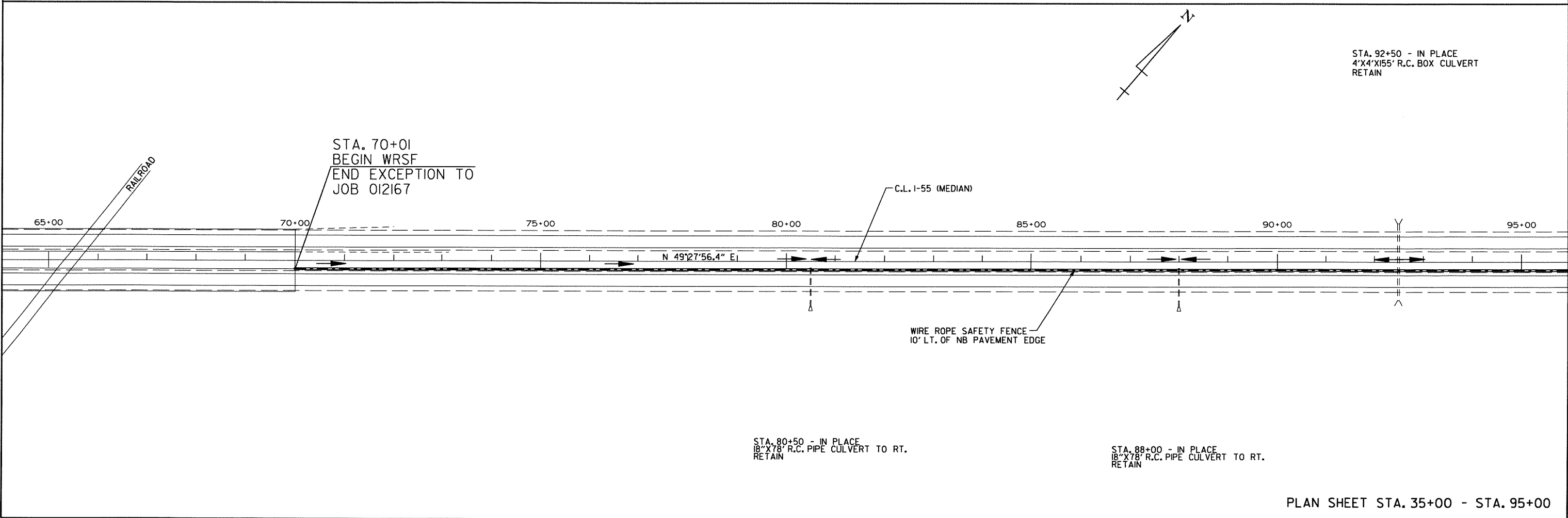
② PLAN SHEETS



STA. 61+14
END WRSF
BEGIN EXCEPTION TO
JOB 012167



INDICATES DIRECTION OF MEDIAN DRAINAGE

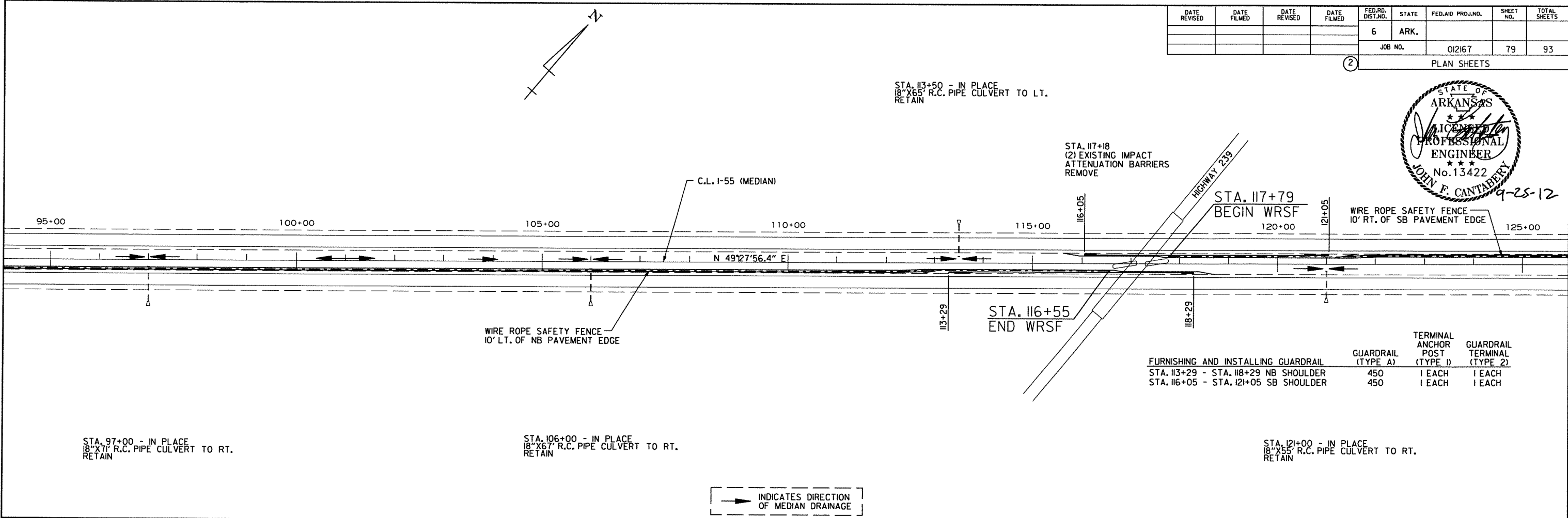
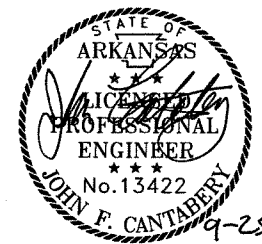


PLAN SHEET STA. 35+00 - STA. 95+00

DWYANDELL 9/20/2012 10:46:28 AM
 WORKSPACE: AHTD \AGLITDCO\1\Projects\2011\017702 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Fayetteville\BB_PP_30.dgn
 REVISED DATE:

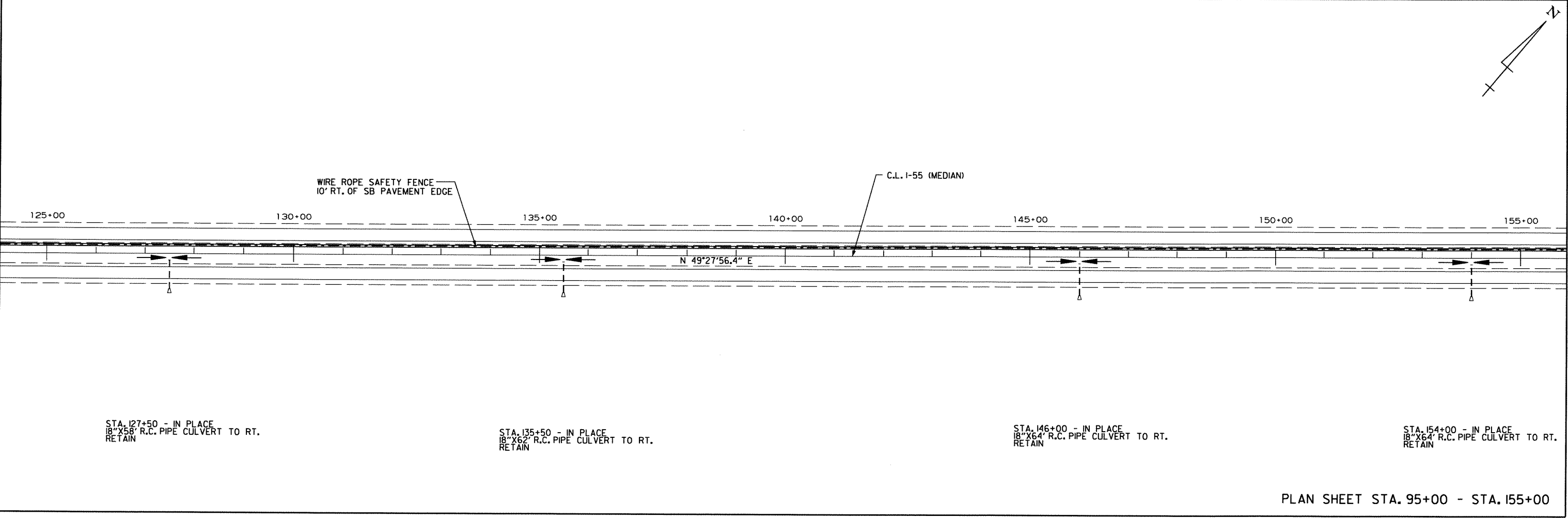
| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|--------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 012167 | | 79 | 93 |

② PLAN SHEETS



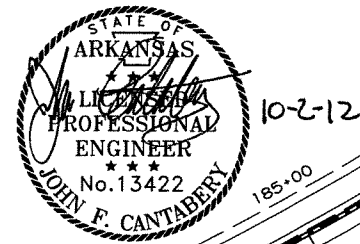
| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 113+29 - STA. 118+29 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 116+05 - STA. 121+05 SB SHOULDER | 450 | 1 EACH | 1 EACH |

INDICATES DIRECTION OF MEDIAN DRAINAGE



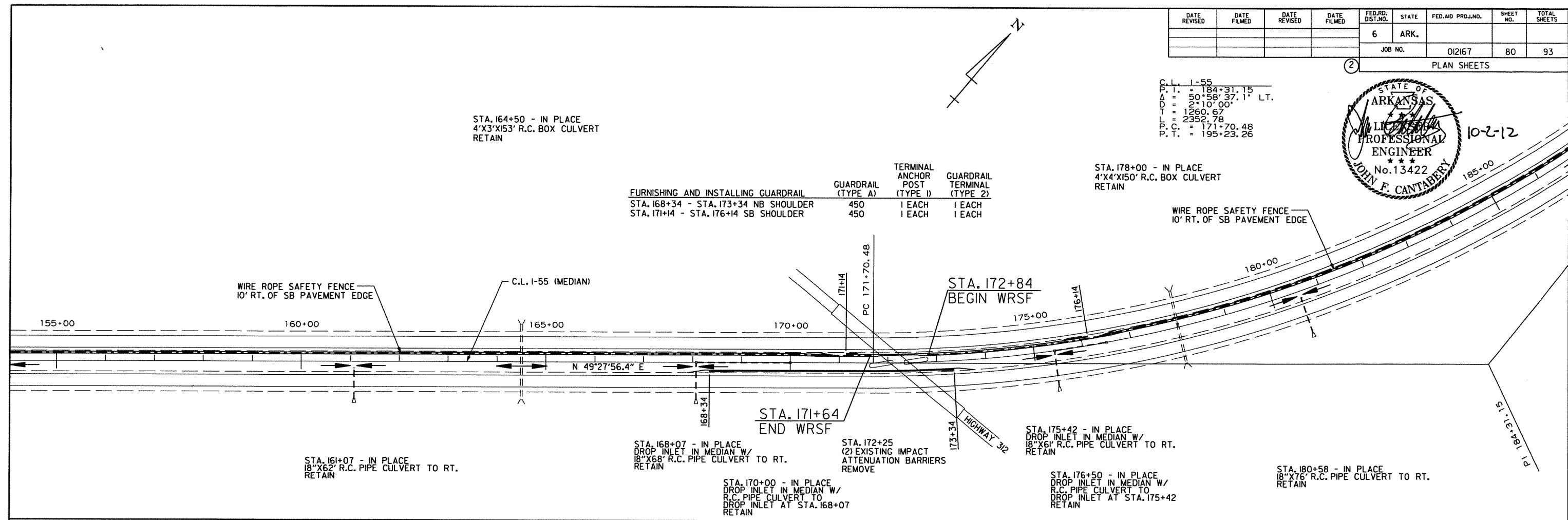
9/20/2012 10:42:29 AM
 DWYANDELL
 WORKSPACE: AHTD
 \\G:\ITDC\N\ITP\Projects\2011\0117102 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - By:thev\lie\BB_PP_31.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-------------|--------------|-------------|--------------------|-------|--------------------|----------------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | | JOB NO. 012167 | 80 93 |
| (2) PLAN SHEETS | | | | | | | | |



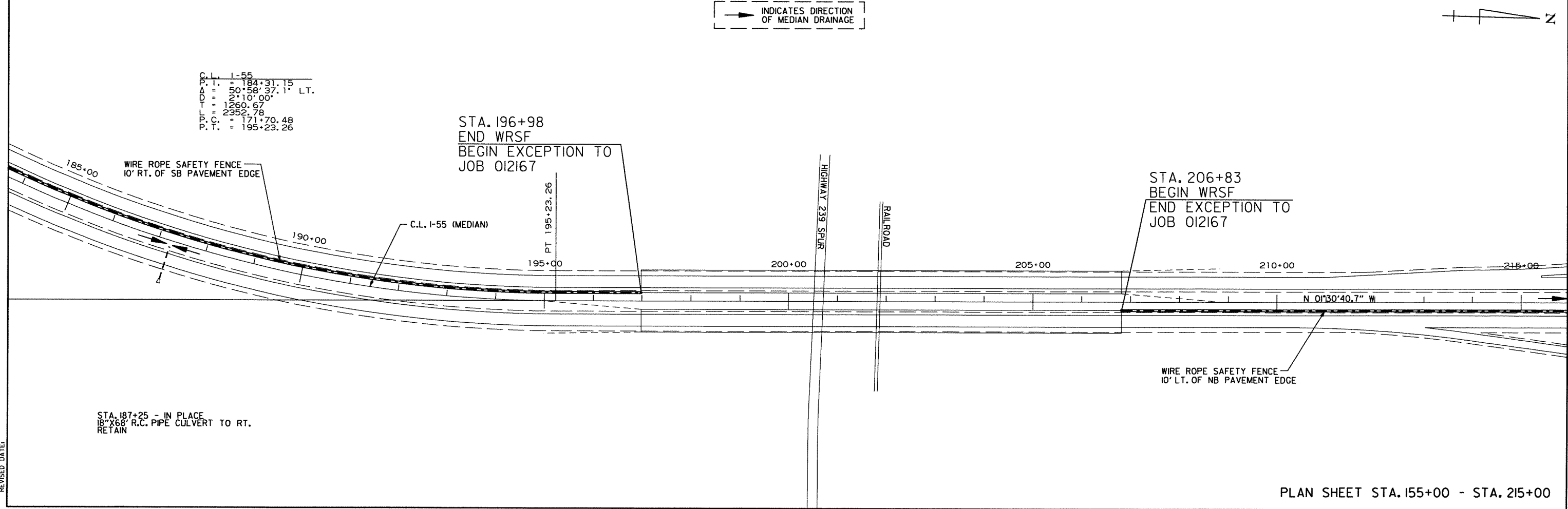
C.L. I-55
 P.T. = 184+31.15
 $\Delta = 50^{\circ}58'37.1''$ LT.
 $D = 2^{\circ}10'00''$
 $T = 1260.67$
 $L = 2352.78$
 P.C. = 171+70.48
 P.T. = 195+23.26

| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 168+34 - STA. 173+34 NB SHOULDER | 450 | 1 EACH | 1 EACH |
| STA. 171+14 - STA. 176+14 SB SHOULDER | 450 | 1 EACH | 1 EACH |



INDICATES DIRECTION OF MEDIAN DRAINAGE

C.L. I-55
 P.T. = 184+31.15
 $\Delta = 50^{\circ}58'37.1''$ LT.
 $D = 2^{\circ}10'00''$
 $T = 1260.67$
 $L = 2352.78$
 P.C. = 171+70.48
 P.T. = 195+23.26

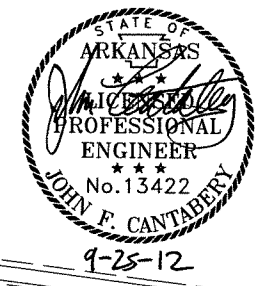


PLAN SHEET STA. 155+00 - STA. 215+00

RNF:rtmer 10/2/2012 8:28:23 AM
 WORKSPACE: AHTD
 L:\2011\017102 - AHTD Cable Median Barriers - TO 0013\Drawings\JOB 012167 - Blytheville\BB_PP_32.dgn
 REVISED DATE:

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. RD. DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 012167 | 81 | 93 |

2 PLAN SHEETS



STA. 216+00 - IN PLACE
18" X 87" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 232+00 - IN PLACE
18" X 52" R.C. PIPE CULVERT TO LT.
RETAIN

STA. 232+33
END JOB 012167
L.M. 67.42

STA. 235+00 - IN PLACE
34" X 138" R.C. PIPE CULVERT
RETAIN

STA. 227+91
(2) EXISTING IMPACT
ATTENUATION BARRIERS
REMOVE

WIRE ROPE SAFETY FENCE
10' LT. OF NB PAVEMENT EDGE

STA. 227+15
END WRSF

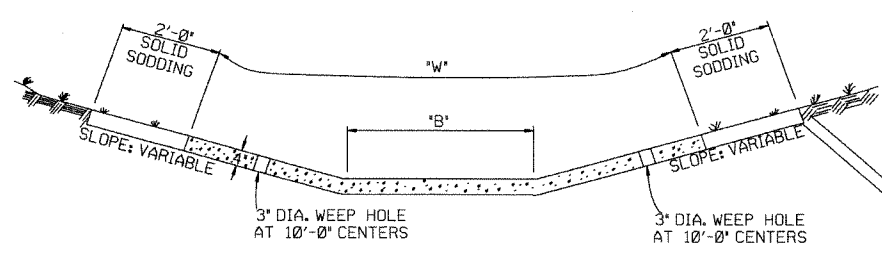
STA. 224+00 - IN PLACE
18" X 54" R.C. PIPE CULVERT TO RT.
RETAIN

| FURNISHING AND INSTALLING GUARDRAIL | GUARDRAIL (TYPE A) | TERMINAL ANCHOR POST (TYPE 1) | GUARDRAIL TERMINAL (TYPE 2) |
|---------------------------------------|--------------------|-------------------------------|-----------------------------|
| STA. 223+86 - STA. 229+11 NB SHOULDER | 475 | 1 EACH | 1 EACH |
| STA. 226+65 - STA. 231+90 SB SHOULDER | 475 | 1 EACH | 1 EACH |

INDICATES DIRECTION OF MEDIAN DRAINAGE

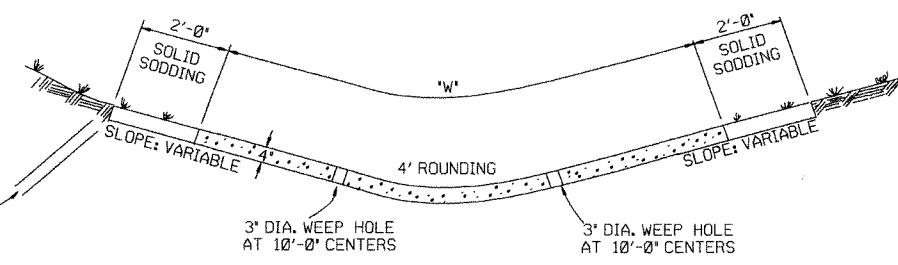
DWYANDELL 9/20/2012 10:42:30 AM
 WORKSPACE: AHTD \\GLITDC01\IT\Projects\2011\0117702 - AHTD Coble Median Barriers - TO 003\Drawings\JOB 012167 - Blytheville\BB_PP_33.dgn
 REVISED DATE:

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



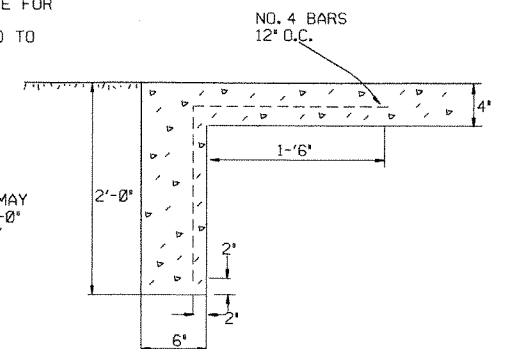
TYPE A

REFER TO TABULATION OF QUANTITIES FOR 'W' DIMENSIONS



TYPE B

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



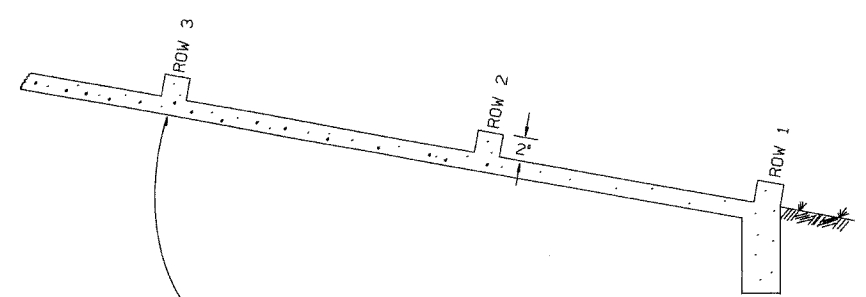
TOE WALL DETAIL FOR CONCRETE DITCH PAVING

GENERAL NOTES:

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

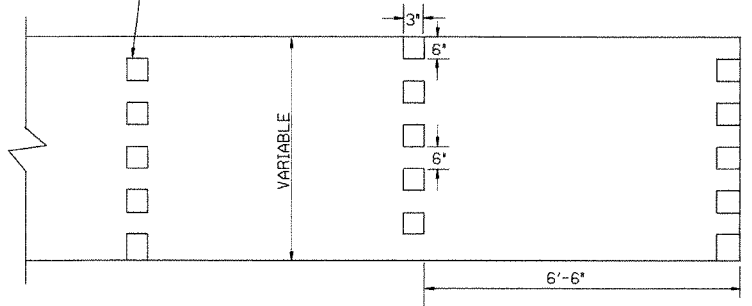
SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

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



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

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



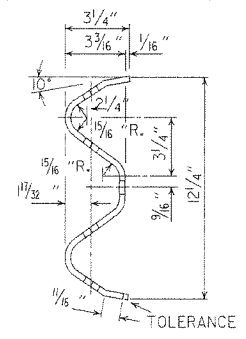
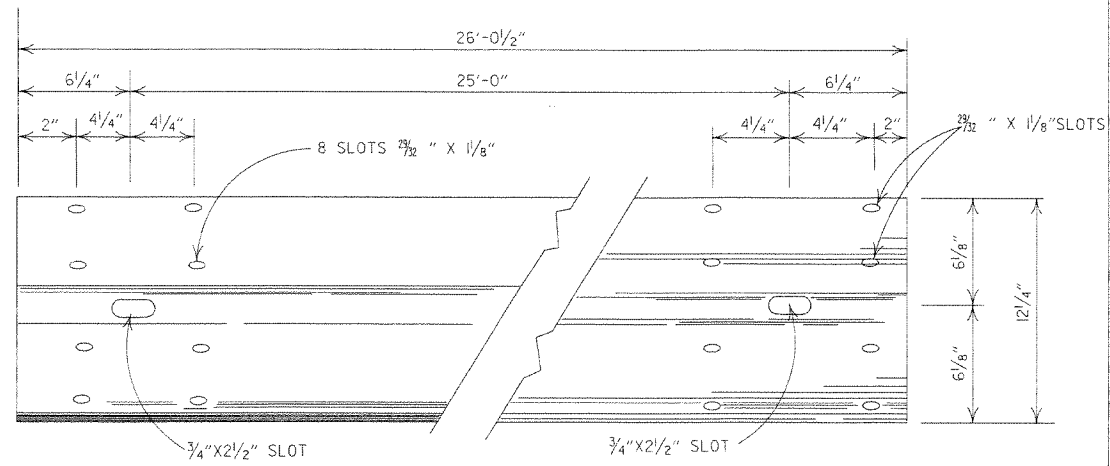
ENERGY DISSIPATORS (NO SCALE)

| DATE | REVISION | DATE FILM'D |
|----------|--|-------------|
| 11-17-10 | ADDED GENERAL NOTE | |
| 6-2-94 | ADDED GENERAL NOTE ABOUT SOLID SODDING | |
| 11-30-88 | ELIMINATED MIN. ROWS OF ELEMENTS | 111-30-89 |
| 7-15-88 | REVISED DISSIPATOR NOTE | 653-7-15-88 |
| 4-3-87 | REVISED ENERGY DISSIPATOR | 671-4-3-87 |
| 1-9-87 | MODIFIED NOTE ON ENERGY DISS. | 532-1-9-87 |
| 11-3-86 | ADDED NOTE TO ENERGY DISS. | 599-12-1-86 |
| 11-1-84 | ENERGY DISSIPATOR DETAILS | 508-11-1-84 |
| 11-1-84 | ADDED EXCAVATION DETAILS | |
| 10-2-72 | TYPED A & B | |
| 10-2-72 | REVISED AND REDRAWN | 508-10-2-72 |
| | | |

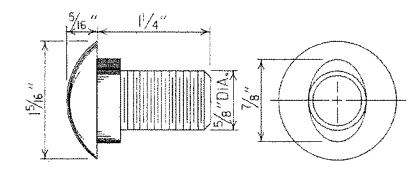
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

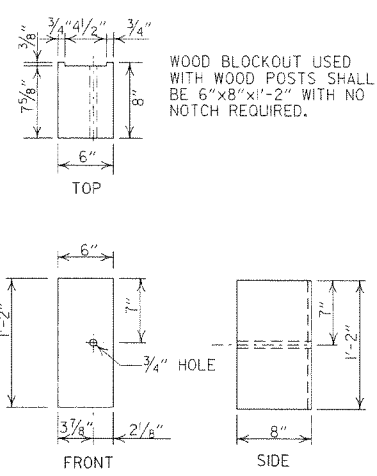
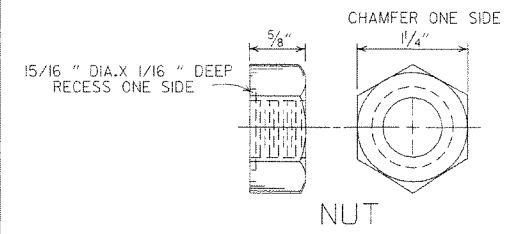
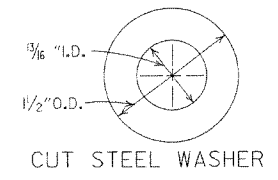
STANDARD DRAWING CDP-1



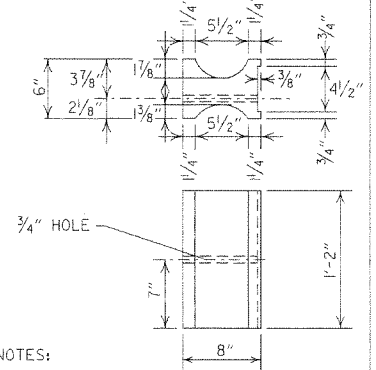
DETAILS OF W-BEAM GUARD RAIL
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



SPLICE BOLT POST BOLT - SAME EXCEPT LENGTH

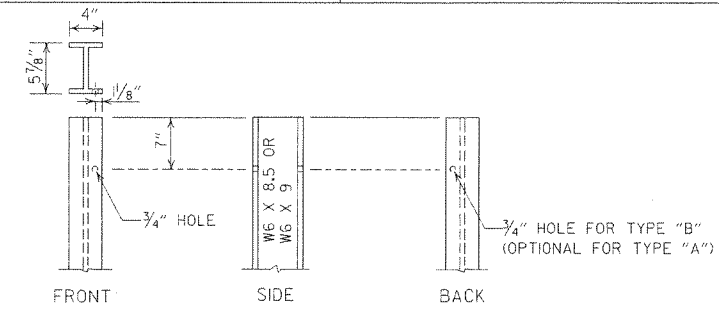


WOOD BLOCKOUT (W-BEAM)

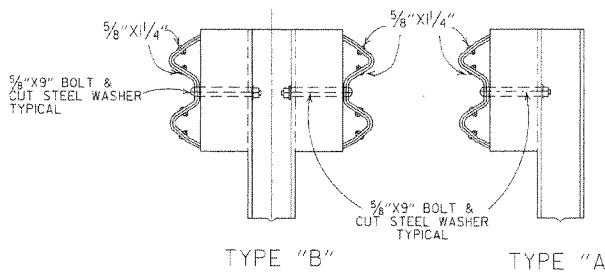


PLASTIC BLOCKOUT (W-BEAM)

NOTES:
1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.



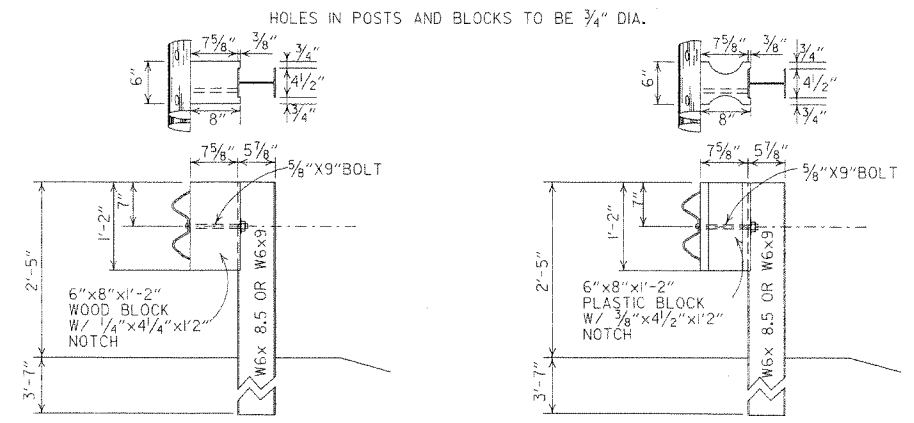
STEEL POST



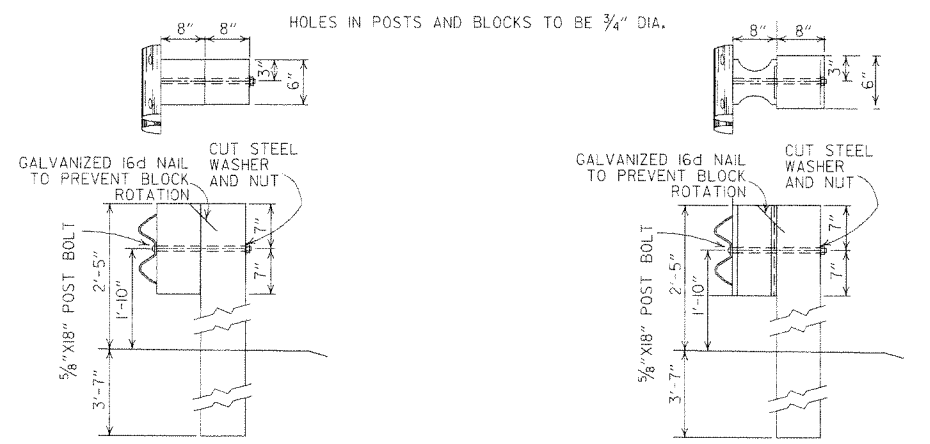
DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
WHERE W-BEAM GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.
W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.
USE W-BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARD RAIL, W-BEAM GUARD RAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.
ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.
CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARD RAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARD RAIL.



DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



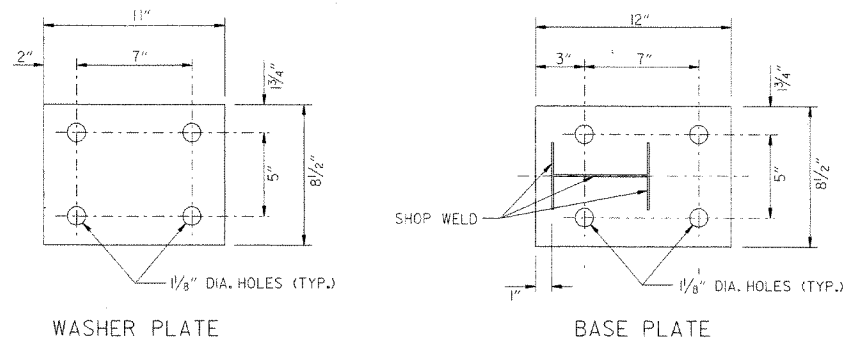
DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

| | | |
|----------|--|--------------|
| 7-4-10 | RAISED HEIGHT OF GUARD RAIL 1" | |
| 10-5-09 | ADDED REFERENCE TO MASH | |
| 4-10-03 | REVISED GENERAL NOTES | |
| 8-22-02 | REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & ON STEEL POST | |
| 11-16-01 | REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS | |
| 3-30-00 | REMOVED GUARD RAIL AT BRIDGE ENDS | |
| 11-2-00 | ADDED PLASTIC BLOCKOUT | |
| 8-12-98 | REV. BLOCKOUTS TO WOOD, DELETED CONC. POST & REV. GENERAL NOTE, DELETED DET. OF GUARD RAIL, REPLACE BEHIND CURB & DET. OF POST PLACE IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES | |
| 4-3-97 | REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS | |
| 10-18-96 | REVISED WOOD POST NOTE | |
| 6-2-94 | ADDED ALT. STEEL POST SIZE | |
| 8-5-93 | REVISED STEEL POST SIZE | 8-5-93 |
| 10-1-92 | REDRAWN & REVISED | 10-1-92 |
| 8-15-91 | REVISED WASHER NOTE | 8-15-91 |
| 8-2-90 | REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK | 8-2-90 |
| 7-15-88 | REVISED SECTION 3 & GENERAL NOTES | |
| 3-4-88 | REV. ANCHOR POST, ELEV. NOTES & POST IN ROCK | 780-3-4-88 |
| 10-30-87 | REVISED WOOD LINE POST DETAIL | 546-10-30-87 |
| 10-9-87 | REDRAWN & REVISED | 802-10-9-87 |
| DATE | REVISION | DATE FILM |

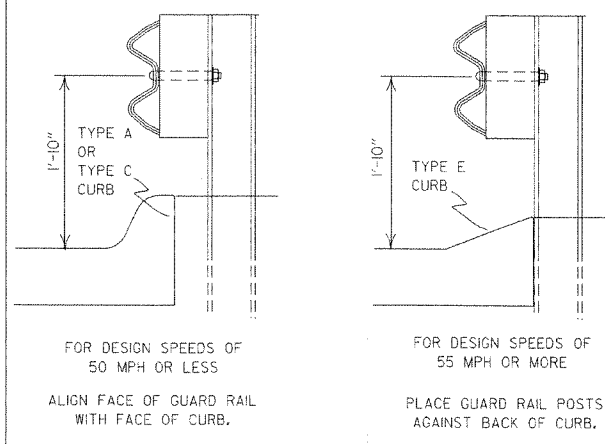
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-8

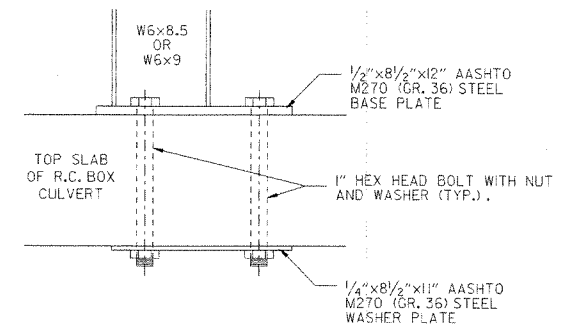
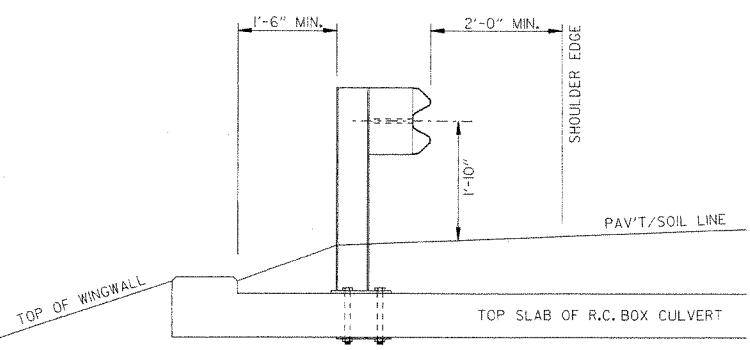


Note: Bolts, nuts, washers and plates shall be galvanized in accordance with Section 807 of the Standard Specifications.



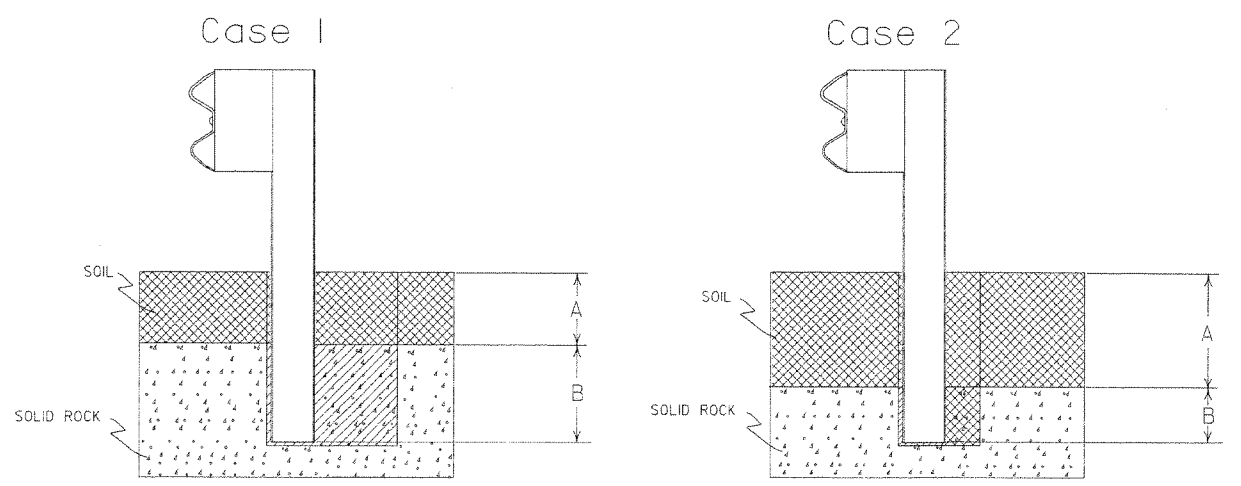
DETAIL OF GUARD RAIL PLACEMENT BEHIND CURB (W-BEAM)

FOR DESIGN SPEEDS OF 50 MPH OR LESS ALL CURB FACES, AS SHOWN ON STD. DRWG. CG-1, MAY BE USED. FOR DESIGN SPEEDS OF 55 MPH OR MORE TYPE "E" CURB FACE SHALL BE USED.



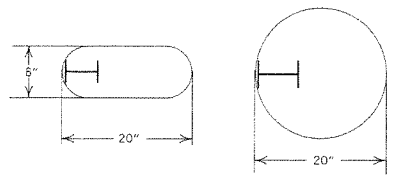
SECTION A-A

DETAIL OF CONNECTION



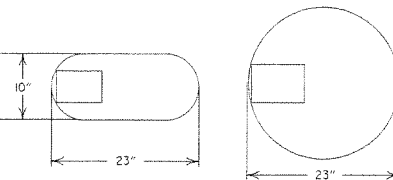
Plan View Steel Posts

Either hole configuration acceptable



Plan View Wood Posts

Either hole configuration acceptable



Notes: For overlying soil depths (A) ranging from 0 to 18", the depth of required drilling (B) is equal to 24".

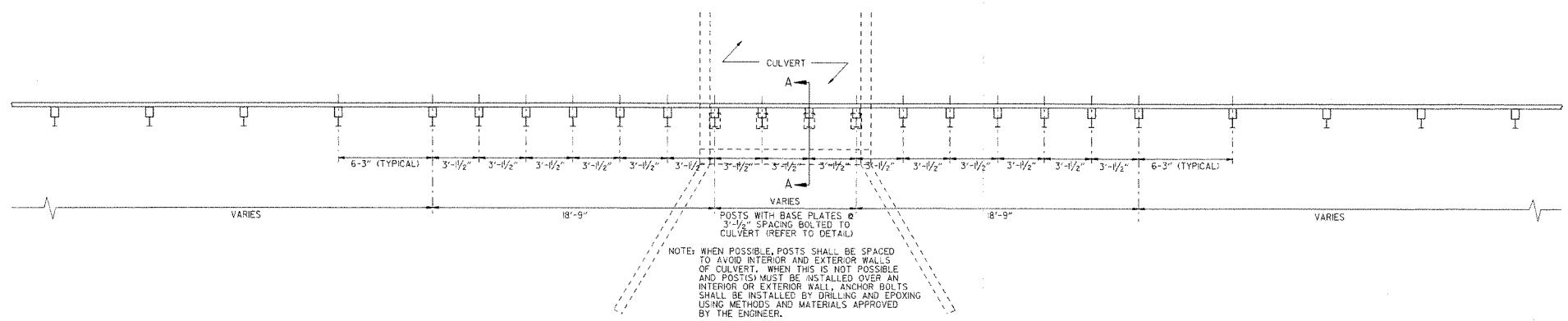
Zone A: Backfill according to Section 617.03(a).

Zone B: Backfill hole in 6" lifts with material meeting the requirements of Section 802.02(c) - Alternate gradation. Compact to 95% maximum dry density per ASTM D-698.

Notes: For overlying soil depths (A) ranging from 18" to 44", the depth of required drilling (B) is equal to either 12" or 44" minus the depth of soil whichever is less.

Zone A & B: Backfill according to Section 617.03(a).

DETAIL OF POST PLACEMENT IN SOLID ROCK (W-BEAM)



NOTE: WHEN POSSIBLE, POSTS SHALL BE SPACED TO AVOID INTERIOR AND EXTERIOR WALLS OF CULVERT. WHEN THIS IS NOT POSSIBLE AND POST(S) MUST BE INSTALLED OVER AN INTERIOR OR EXTERIOR WALL, ANCHOR BOLTS SHALL BE INSTALLED BY DRILLING AND EPOXYING USING METHODS AND MATERIALS APPROVED BY THE ENGINEER.

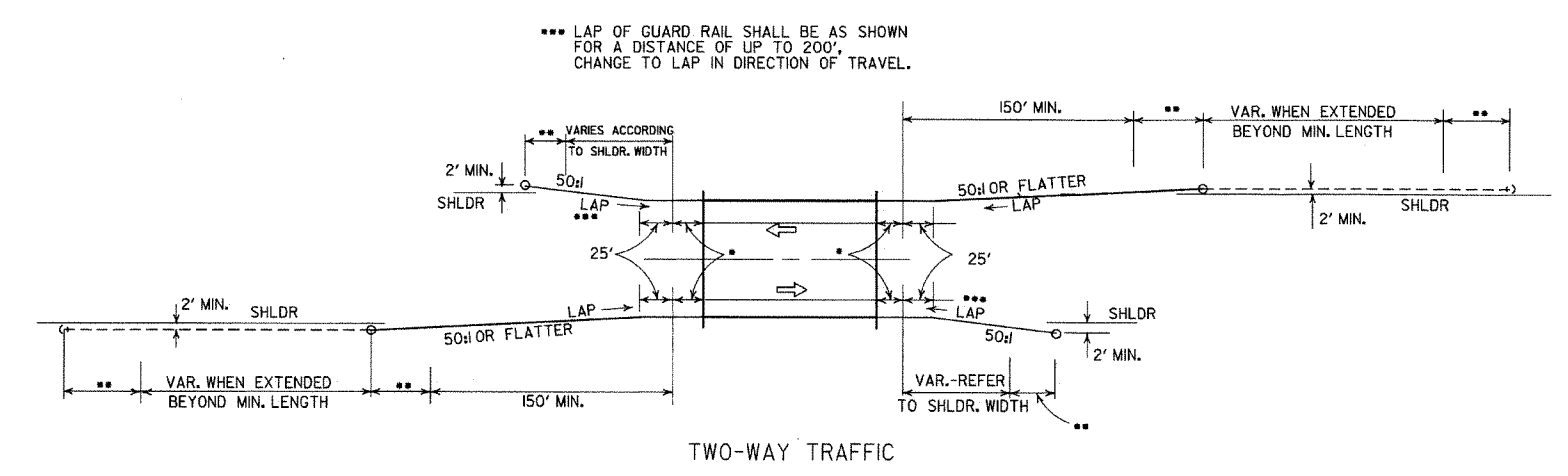
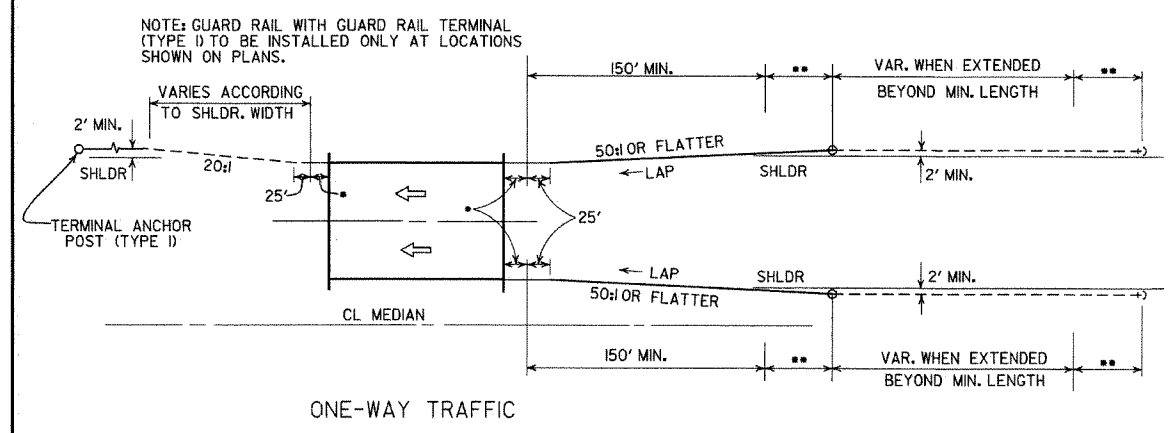
PLAN LAYOUT OF TYPE A GUARD RAIL AT LOW-FILL CULVERTS
 NOTE: THIS DETAIL IS TO BE USED ONLY WHEN THE COVER OVER THE CULVERT DOES NOT PERMIT FULL EMBEDMENT OF GUARD RAIL POSTS AS SHOWN ON STD. DRWG. GR-8A.

| | | |
|----------|--|---------------|
| 7-14-10 | RAISED HEIGHT OF GUARD RAIL 1" | |
| 4-12-07 | REVISED DETAIL OF GUARD RAIL PLACEMENT BEHIND CURB | |
| 11-10-05 | ADDED GUARD RAIL PLACEMENT BEHIND CURB; REVISED DETAIL OF CONNECTION | |
| 11-18-04 | REVISED POST PLACEMENT IN ROCK & CULVERT CONNECTION DETAILS. ADDED DETAIL FOR GUARD RAIL PLACEMENT AT LOW-FILL CULVERTS | |
| 3-30-00 | REMOVED CONCRETE INSERT ANCHOR | |
| 8-12-98 | CHANGED STEEL SPACER BLOCK TO WOOD BLOCKOUT, ADD DET. OF GUARD RAIL CONNECTION TO R.C. BOX CULVT. DELETED DET. OF STEEL LINE POST CONN. & ADDED DET. OF GUARD RAIL PLACE. BEHIND CURB & DET. OF POST PLACE IN SOLID ROCK | |
| 4-3-96 | PLACED ARROWS AT CUT STEEL WASHERS | 4-3-96 |
| 10-18-96 | REV. ASTM REF. TO AASHTO | |
| 11-22-95 | ADDED OPTIONAL HOLES | |
| 6-2-94 | REVISED ALTERNATE POST SIZE | |
| 8-5-93 | REVISED STEEL POST SIZE | |
| 10-1-92 | REDRAWN & REVISED | 10-1-92 |
| 8-2-90 | DEL. WASHER ON ANCHOR ASSEMBLY | 8-2-90 |
| 7-15-88 | CONFORMED TO 1988 SPECS | |
| 3-4-88 | REVISED ANCHOR NOTE | |
| 10-30-87 | REVISED ANCHOR ASSEMBLY | 7/2-10-30-87 |
| 10-30-87 | REVISED PLACEMENT BEHIND CURB | 5/47-10-30-87 |
| 10-9-87 | REDRAWN & REVISED | 803-10-9-87 |
| DATE | REVISION | DATE FILM |

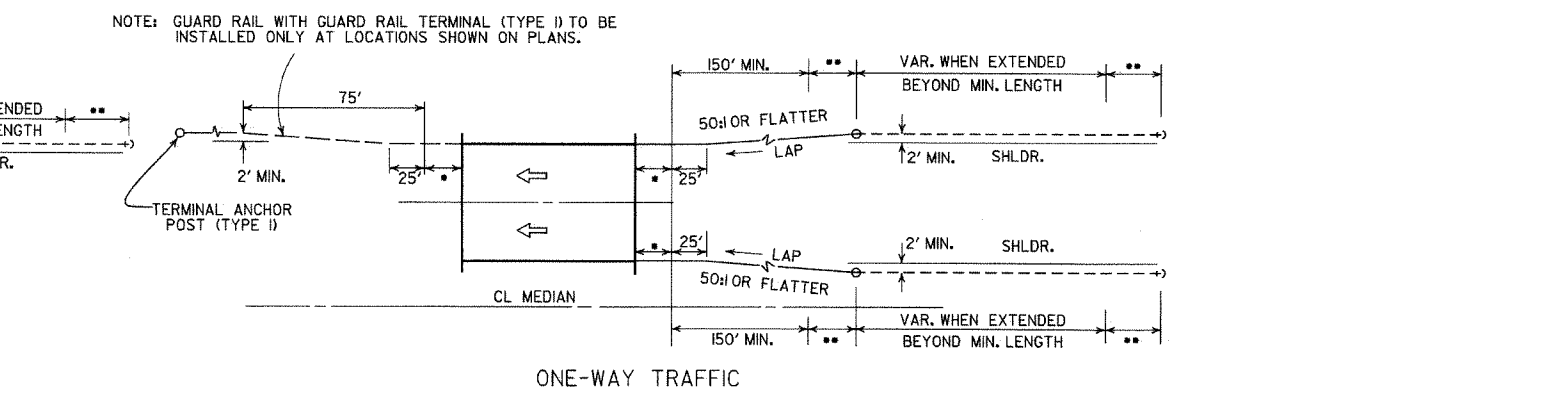
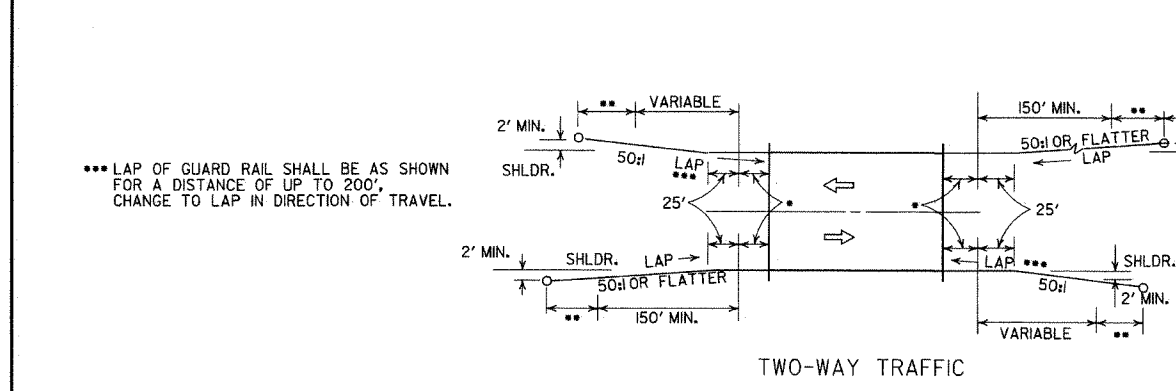
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

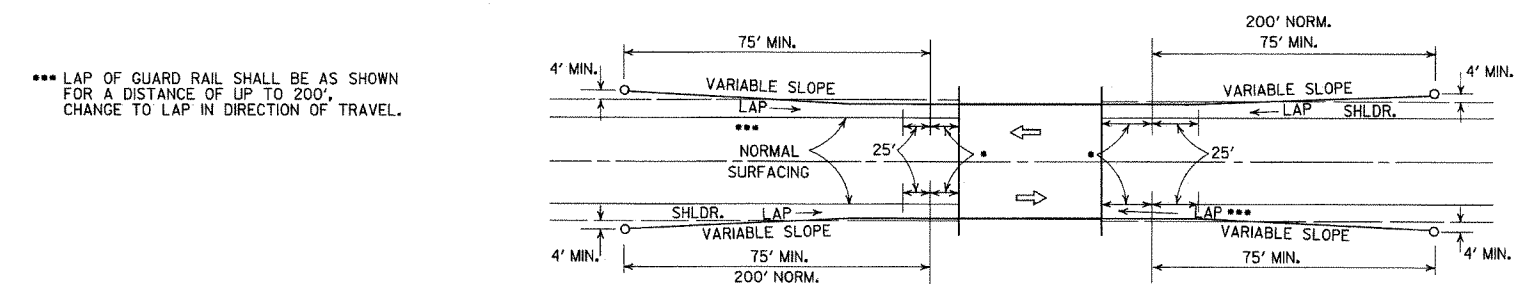
STANDARD DRAWING GR-8A



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



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

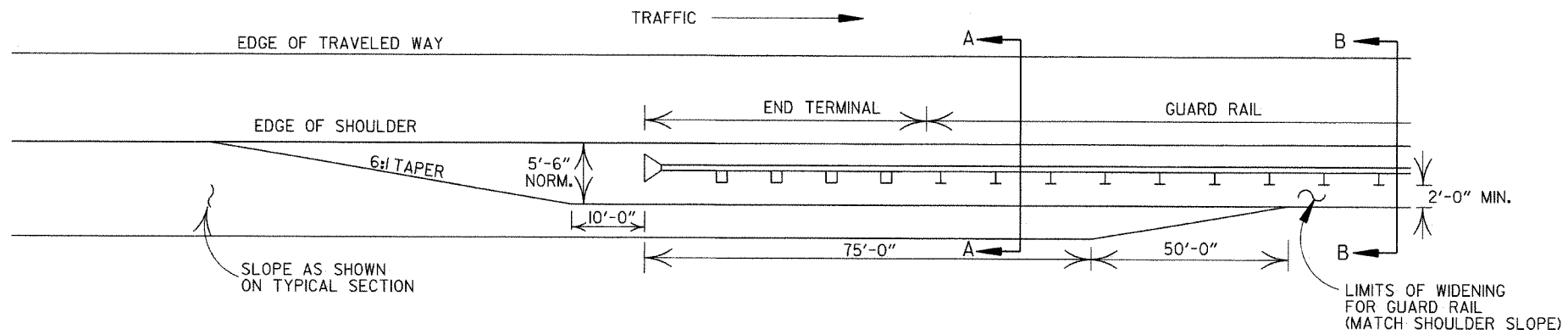


LEGEND

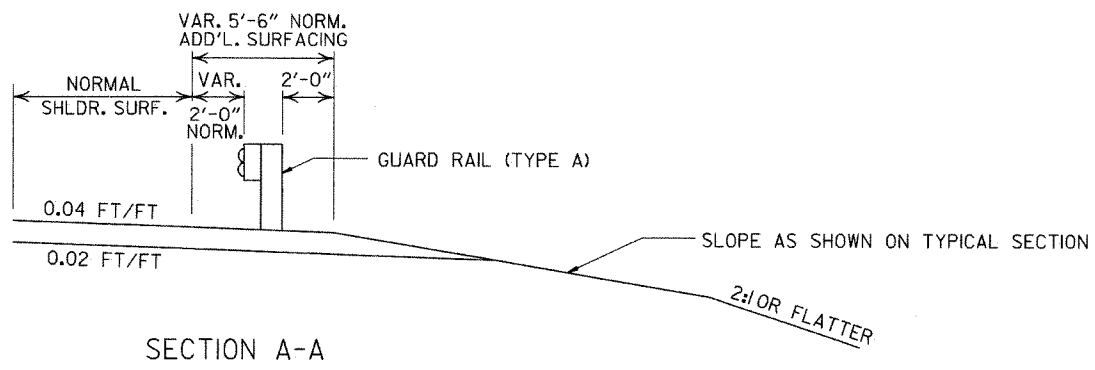
- THRIE BEAM GUARD RAIL TERMINAL
- GUARD RAIL TERMINAL (TYPE 2)

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

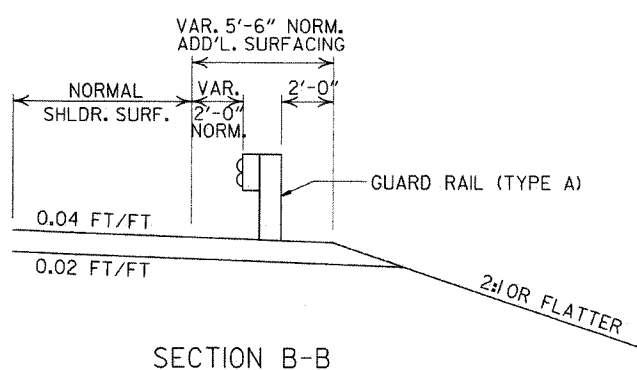
| | | |
|-----------------------------------|--|-----------|
| ARKANSAS STATE HIGHWAY COMMISSION | | |
| GUARD RAIL DETAILS | | |
| 4-17-08 | REVISED LAYOUTS | |
| 11-10-05 | REMOVED GUARD RAIL NOTES AND DETAILS | |
| 11-16-01 | DELETED NOTE-METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERM.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



NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARD RAIL.

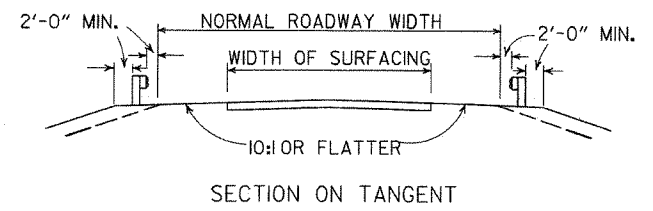


SECTION A-A

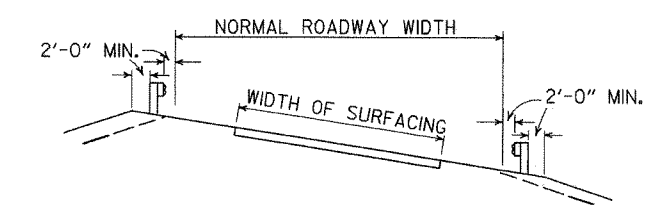


SECTION B-B

DETAILS OF WIDENING FOR GUARD RAIL

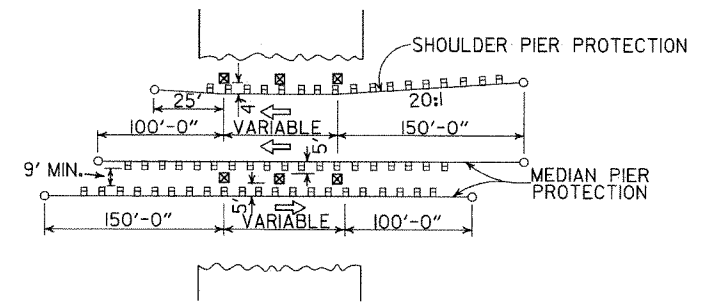


SECTION ON TANGENT



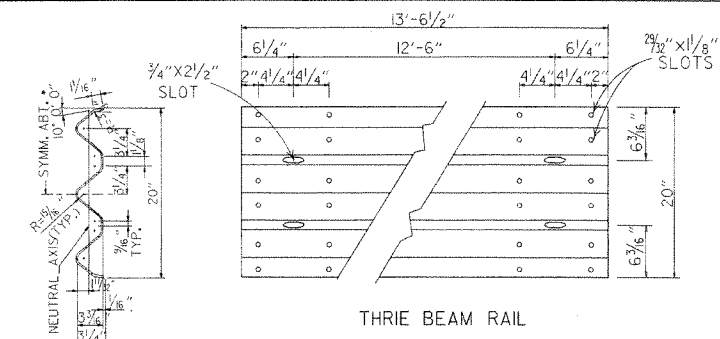
SECTION ON CURVE

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

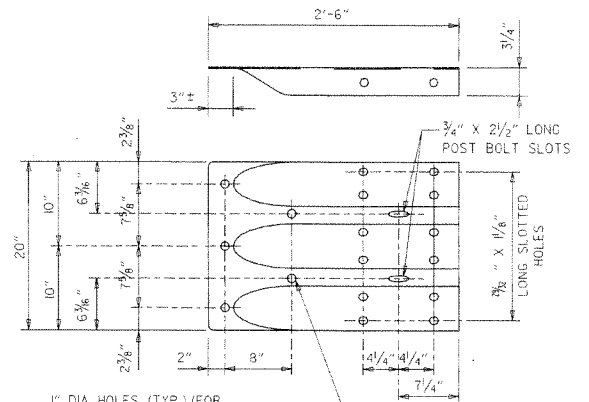


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

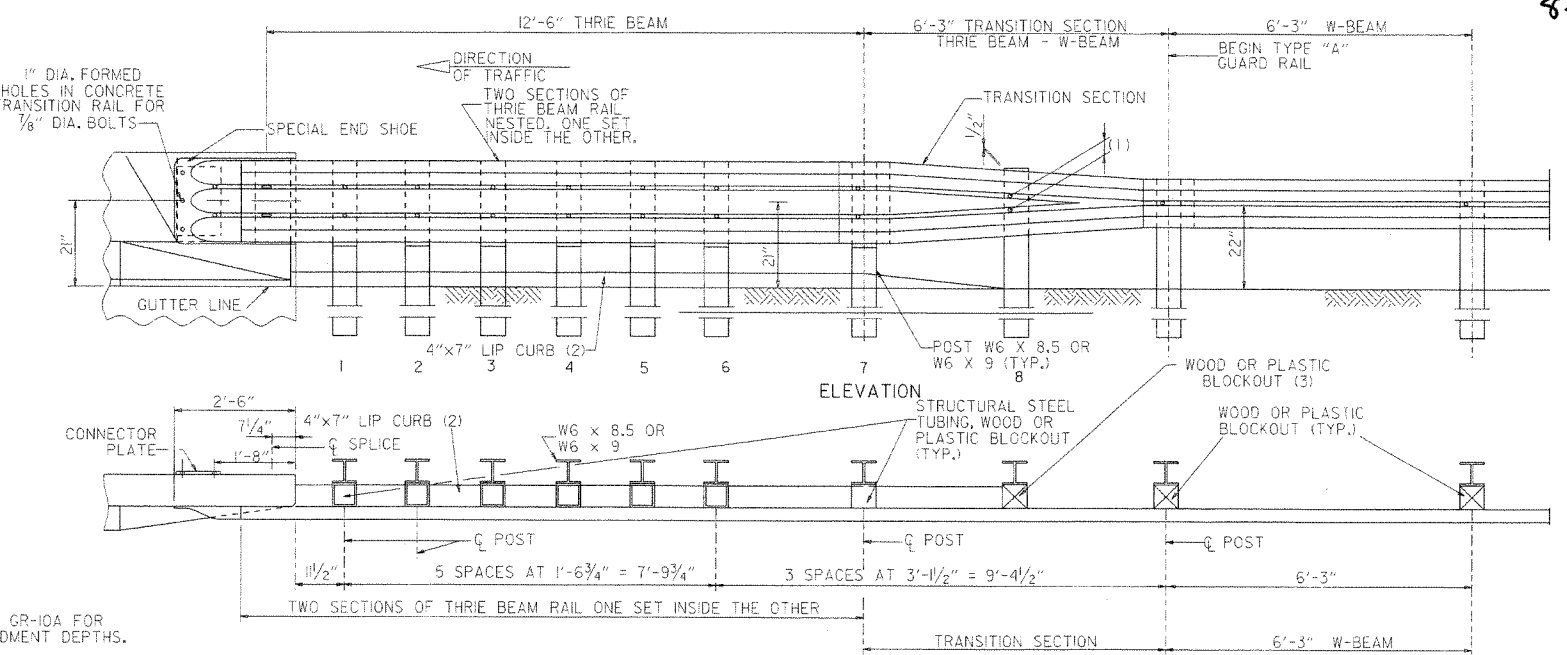
| | | | |
|-----------------------------------|----------------|------|------|
| ARKANSAS STATE HIGHWAY COMMISSION | | | |
| GUARD RAIL DETAILS | | | |
| STANDARD DRAWING GR-9A | | | |
| 4-17-08 | MINOR REVISION | | |
| 11-10-05 | DRAWN | | |
| DATE | REVISION | DATE | FILM |



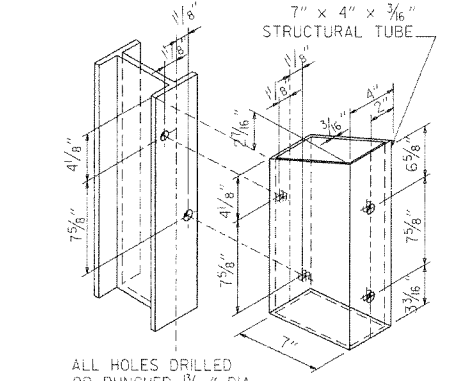
SECTION THRU THRIE BEAM RAIL



SPECIAL END SHOE



ELEVATION

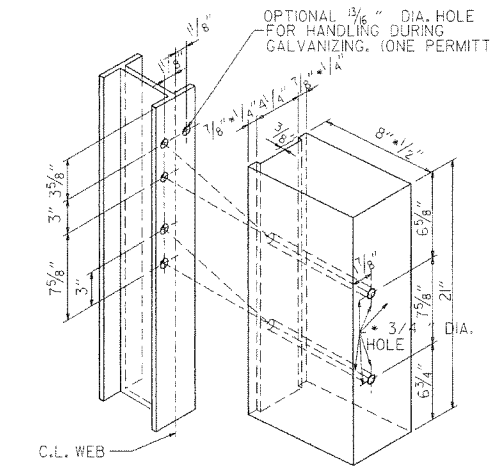


STRUCTURAL STEEL TUBING BLOCKOUT DETAIL

ATTACH BLOCKOUT TO POST USING 5/8" DIA. HEX HEAD BOLTS WITH 1/2" O.D. CUT STEEL WASHERS AND NUT.

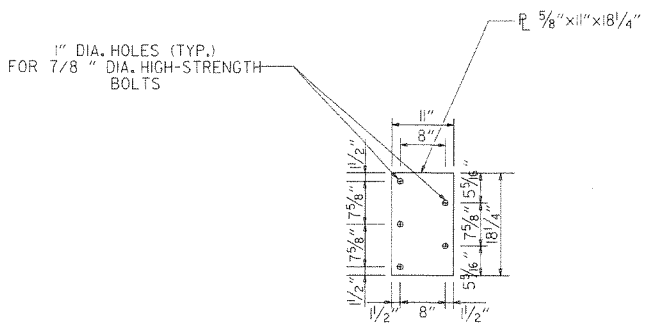
1" DIA. HOLES (TYP.) FOR 7/8" DIA. HIGH-STRENGTH BOLTS

NOTE: SEE STANDARD DRAWING GR-10A FOR GUARD RAIL POST EMBEDMENT DEPTHS.



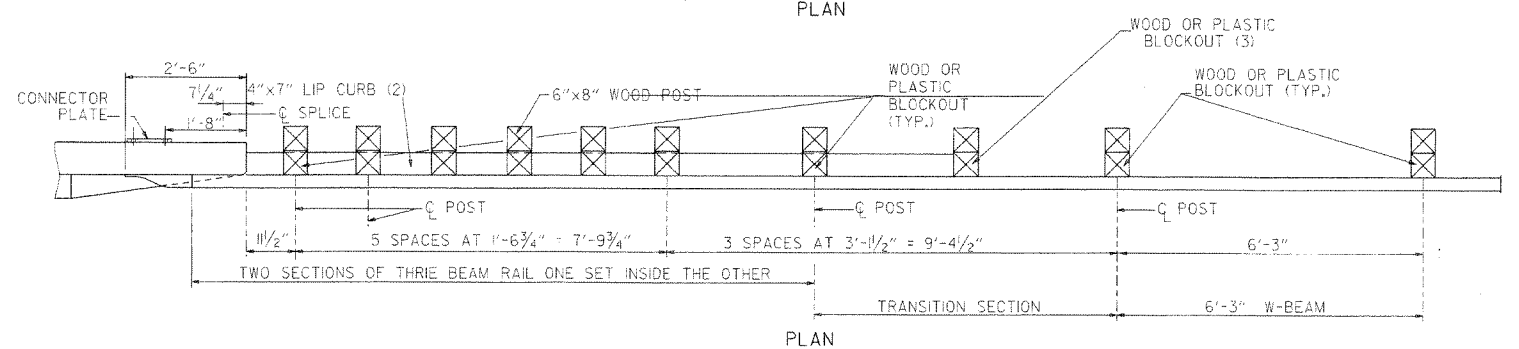
HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.



CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, GR. 36 AND SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO SUBSECTION 807.19 OF THE STANDARD SPECIFICATIONS. CONNECTOR PLATE TO BE BOLTED TO SPECIAL END SHOE USING 7/8" DIA. HIGH STRENGTH BOLTS, WITH THE HEADS PLACED ON THE TRAFFIC FACE. WASHERS SHALL BE USED UNDER THE HEAD AND NUT. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND SHALL CONFORM TO SUBSECTION 807.06.



PLAN

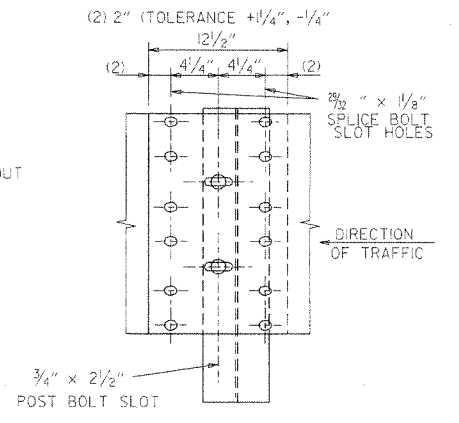
PLAN

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

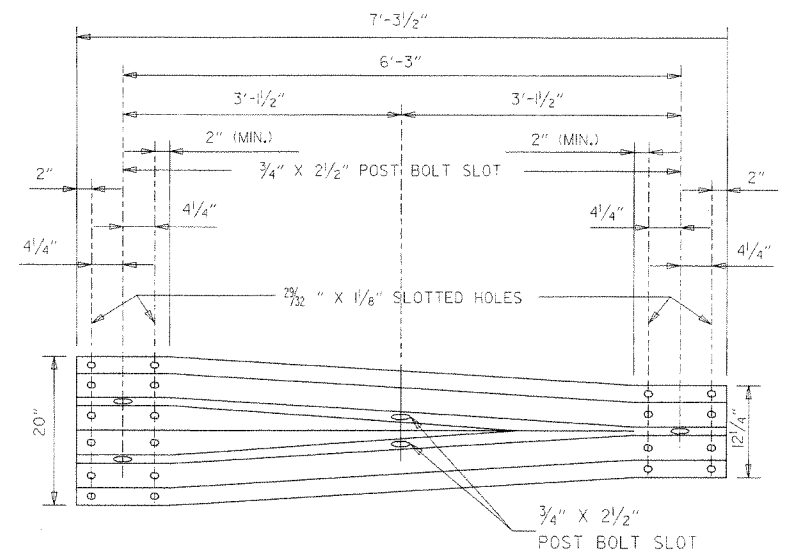
THRIE BEAM GUARD RAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.
 RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.
 ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
 ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-9 & GR-11.
 WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7F (1400 F) OR NO. 1 350 F SOUTHERN PINE.
 REFER TO STD. DRWG. GR-10A FOR POST DETAILS.
 USE THRIE BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.
 THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.



THRIE BEAM RAIL SPLICE AT POST



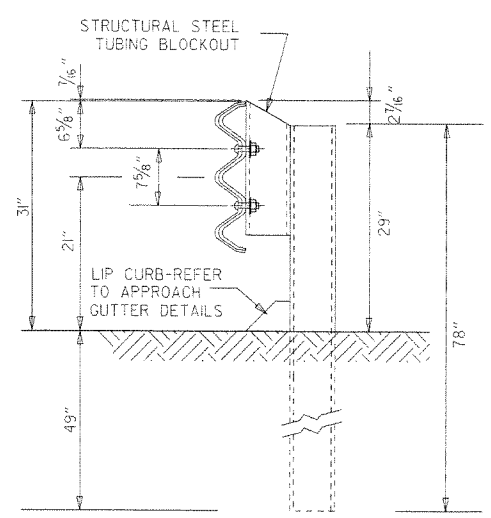
TRANSITION SECTION

| DATE | REVISION | DATE FILM |
|----------|---|-----------|
| 7-14-10 | RAISED HEIGHT OF W-BEAM 1" | |
| 11-29-07 | ADDED PLASTIC BLOCKOUTS | |
| 11-10-05 | ADDED NOTE FOR ATTACHING STEEL BLOCKOUT | |
| 11-18-04 | REVISED GENERAL NOTES | |
| 10-9-03 | REVISED GENERAL NOTES | |
| 4-10-03 | REVISED GENERAL NOTES | |
| 8-22-02 | REVISED NOTE (2) | |
| 6-29-00 | MOVED DIMENSION LINES | |
| 5-18-00 | ADDED NOTE | |
| 3-30-00 | DRAWN & ISSUED | |

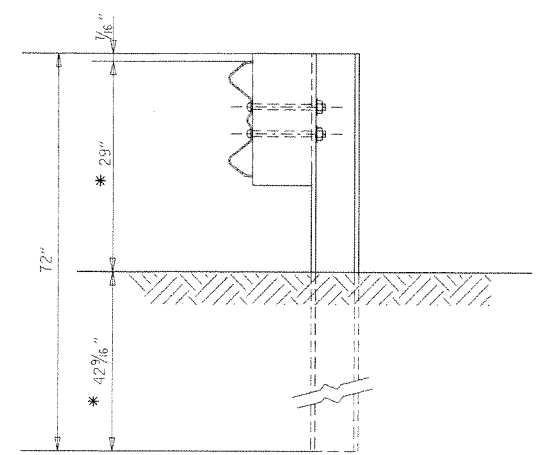
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-10

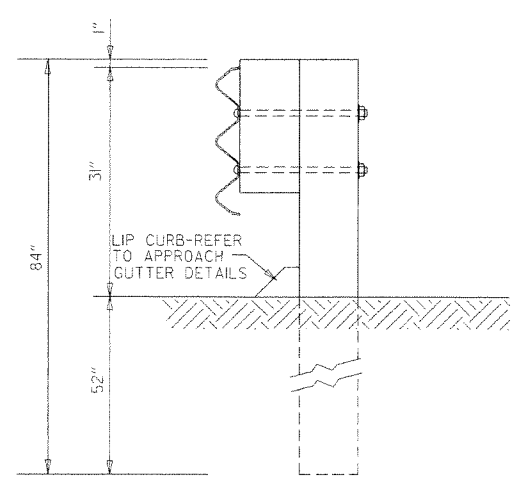


THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT AND STEEL POST
POSTS 1-7

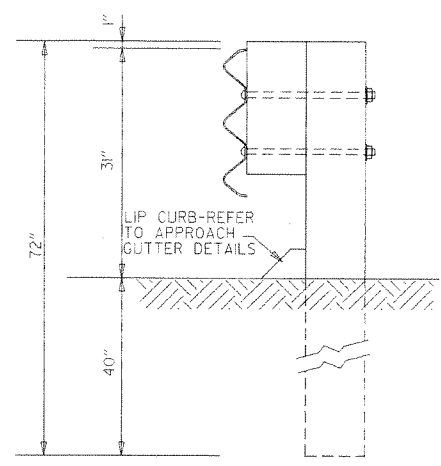


W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8

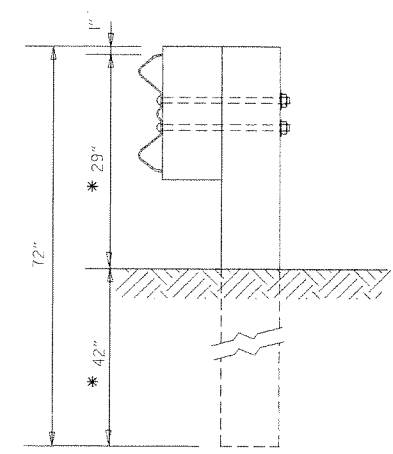
* NOTE:
THESE DIMENSIONS WILL NEED TO BE ADJUSTED IN THE FIELD TO MAKE THE TRANSITION FROM 21" MID POINT OF THRIE BEAM TO 22" MID POINT OF W-BEAM.



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



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

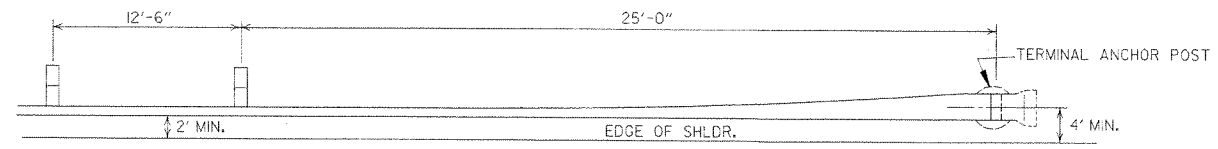


W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST
POST 8

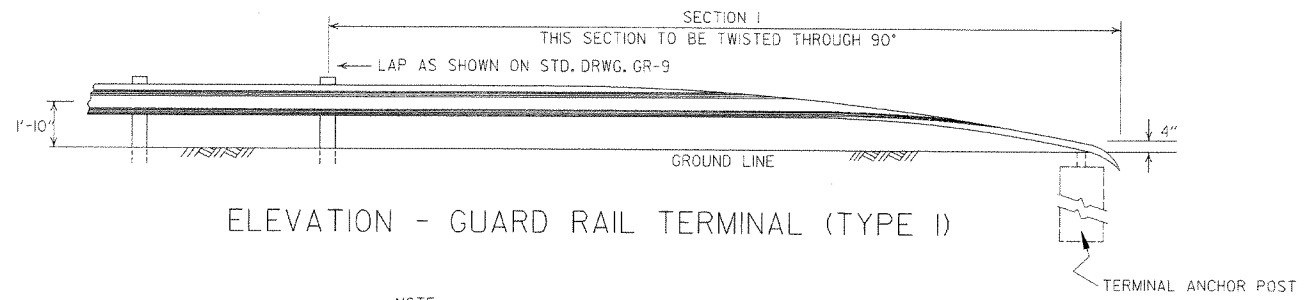
GENERAL NOTES:
RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 3.7 F (400 F) OR NO. 1 350 F SOUTHERN PINE.

| DATE | REVISION | DATE FILM |
|----------|---------------------------|-----------|
| 7-14-10 | REVISED POST 8 DIMENSIONS | |
| 11-29-07 | ADDED PLASTIC BLOCKOUTS | |
| 8-22-02 | REVISED LIP CURB NOTE | |
| 3-30-00 | DRAWN & ISSUED | |

| |
|-----------------------------------|
| ARKANSAS STATE HIGHWAY COMMISSION |
| GUARD RAIL DETAILS |
| STANDARD DRAWING GR-10A |

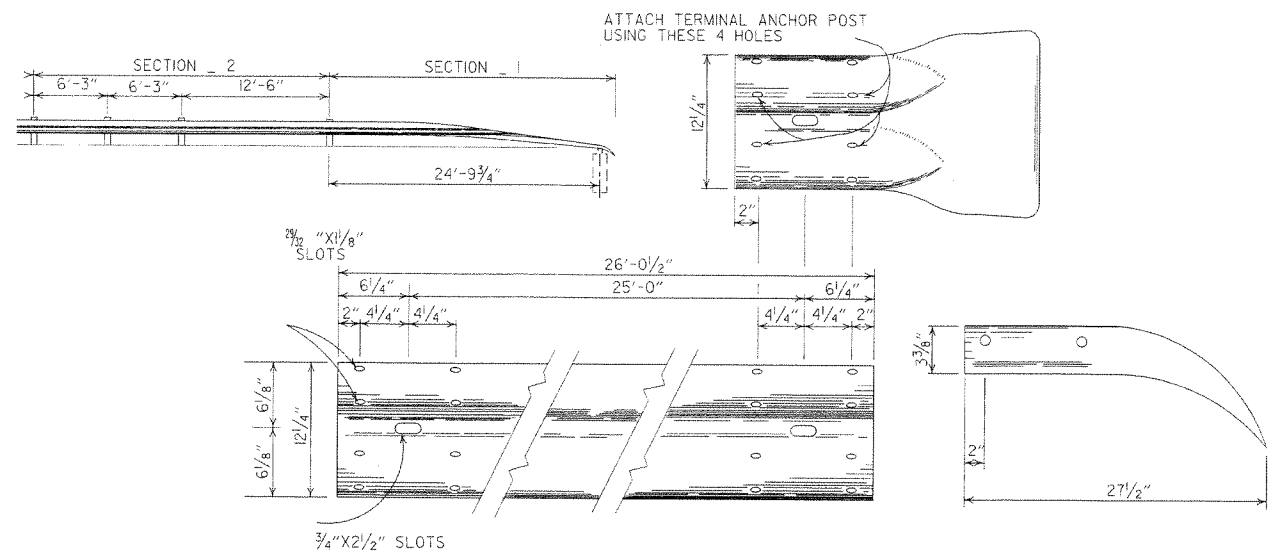


PLAN - GUARD RAIL TERMINAL (TYPE I)



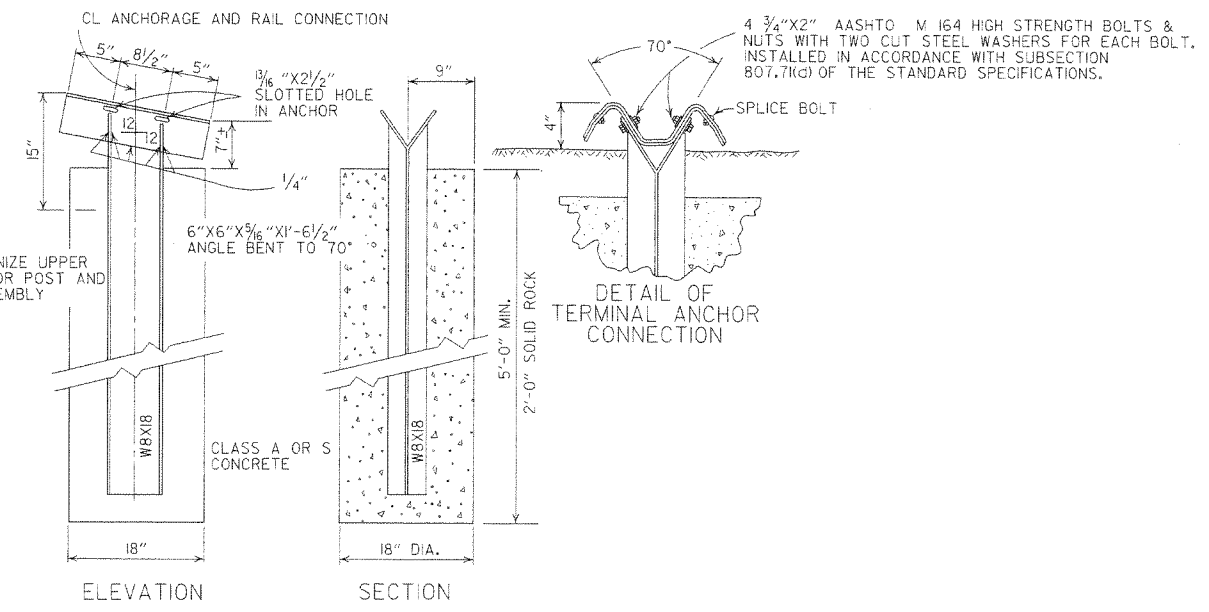
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

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



SECTION 1

TERMINAL SECTION



ELEVATION SECTION

DETAIL OF TERMINAL ANCHOR CONNECTION

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

NOTE: RAIL MEMBERS MAY BE BOLTED TO ANGLE AT TERMINAL ANCHOR AND THE TWO ASSEMBLIES POSITIONED TO PROPER ALIGNMENT PRIOR TO PLACING CONCRETE AROUND 8 W/ 17 POST IF CONTRACTOR SO DESIRES.

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

| | | |
|-----------------------------------|--------------------------------|-----------|
| ARKANSAS STATE HIGHWAY COMMISSION | | |
| GUARD RAIL DETAILS | | |
| STANDARD DRAWING GRT-1 | | |
| 7-14-10 | RAISED HEIGHT OF GUARD RAIL 1" | |
| 6-26-97 | REVISED LAP NOTE | |
| 10-18-96 | REVISED ASTM REF. TO AASHTO | |
| 11-3-94 | DIMENSION TERMINAL DETAIL | |
| 11-11-92 | ADDED NOTE FOR PAYMENT | 11-11-92 |
| 10-1-92 | DRAWN & ISSUED | 10-1-92 |
| DATE | REVISION | DATE FILM |

ADVANCE DISTANCES (XXXX)

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


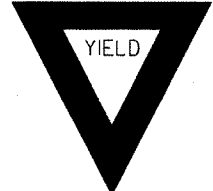
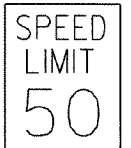
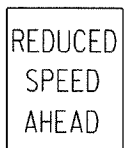
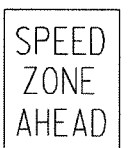



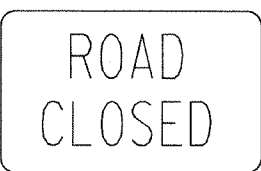
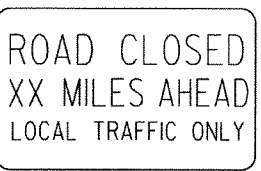
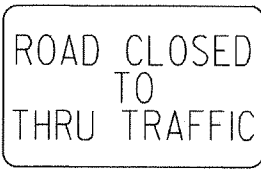
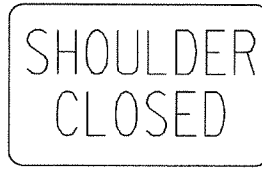
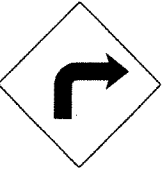
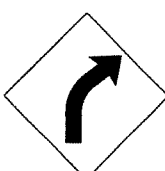
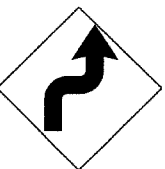


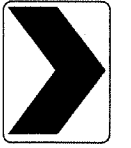
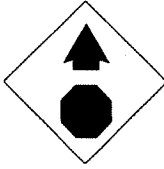
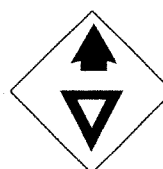
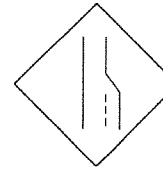



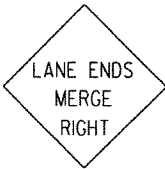


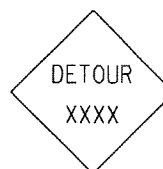
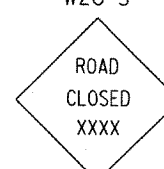

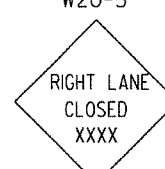


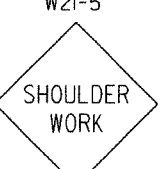
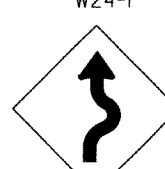


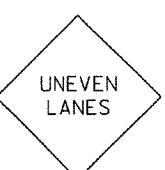
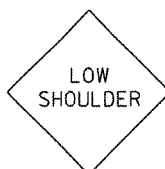
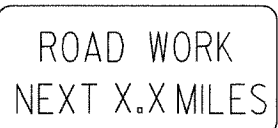
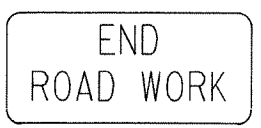
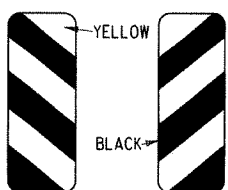


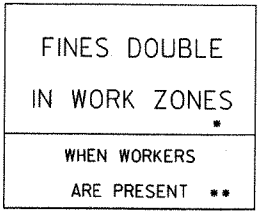
GENERAL NOTES:

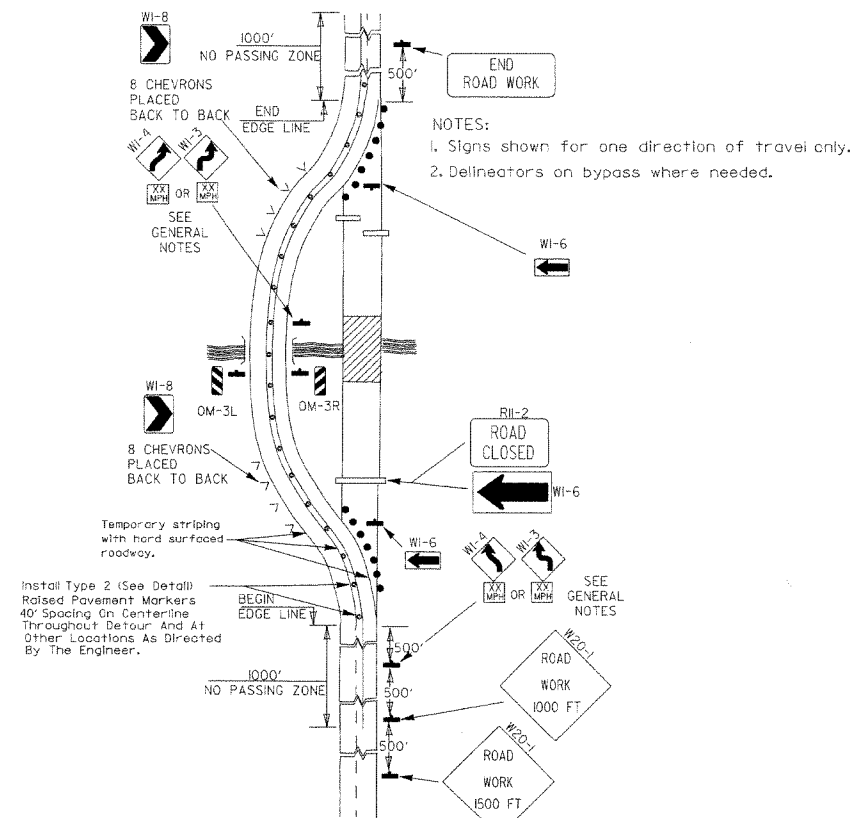
- ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
- 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.
- R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

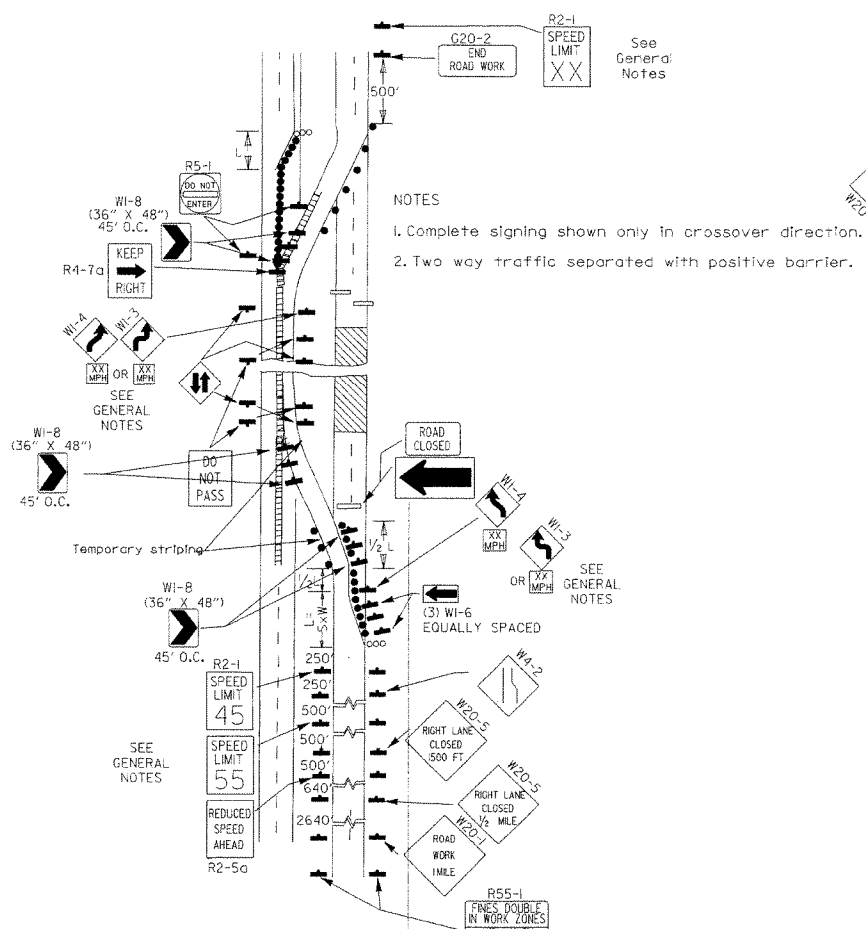
* NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

| | | |
|----------|---|--------|
| 12-15-11 | REVISED W24-1 | |
| 11-17-10 | DELETED W8-9a & ADDED W8-9 | |
| 10-15-09 | ADDED REFERENCE TO MASH & ADDED SIGN W24-1 | |
| 4-17-08 | REVISED SIGN DESIGNATIONS | |
| 11-18-04 | REVISED NOTES | |
| 10-9-03 | REVISED NOTE 1 | |
| 11-16-01 | REVISED NOTE 7 | |
| 9-28-00 | REVISED NOTE | |
| 11-18-98 | ADDED NOTE | |
| 6-26-97 | REVISED NOTE 5 | |
| 4-03-97 | REVISED NOTE 5 | |
| 10-18-96 | ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7 | |
| 10-12-95 | ADDED R55-1 | |
| 6-8-95 | REVISED TO CORRECT SIGN ILLUSTRATIONS | 6-8-95 |
| 2-2-95 | REVISED PER PART VI, MUTCD SEPT. 3, 1993 | |
| 8-15-91 | DRAWN AND PLACED IN USE | |
| DATE | REVISION | FILMED |

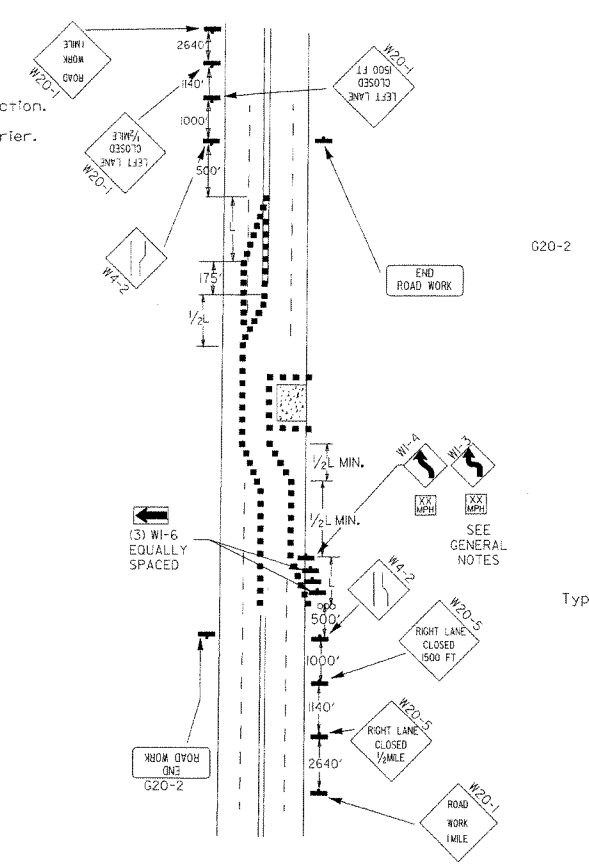
| | | | | | | | |
|--|---|---|---|--|---|---|--|
| <p>RI-1</p>  <p>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</p> | <p>RI-2</p>  <p>STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"</p> | <p>R2-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p> | <p>R2-5A</p>  <p>STD. 24"x30" EXPWY. 36"x48"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



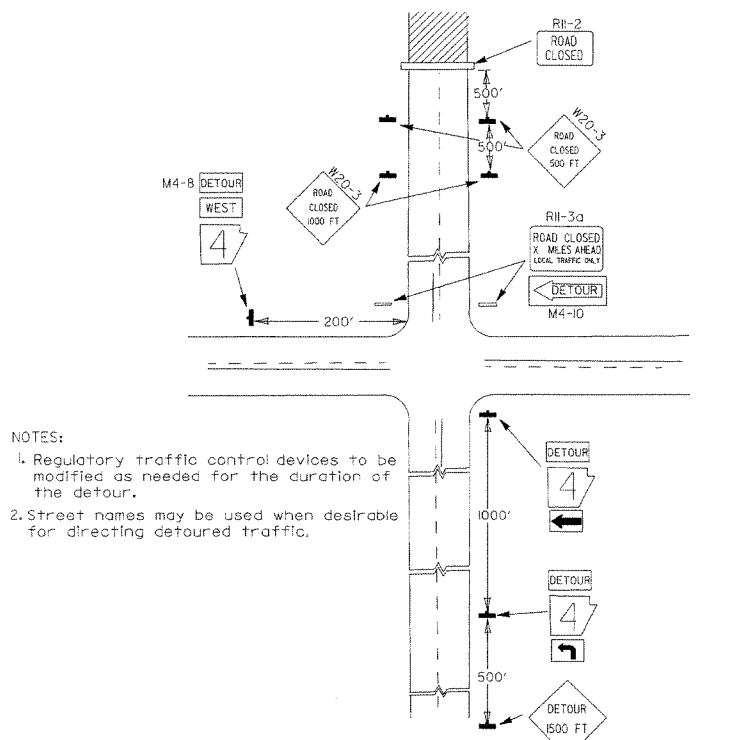
(A) Typical application of traffic control devices on a 2-lane highway where the entire roadway is closed and a bypass detour is provided.



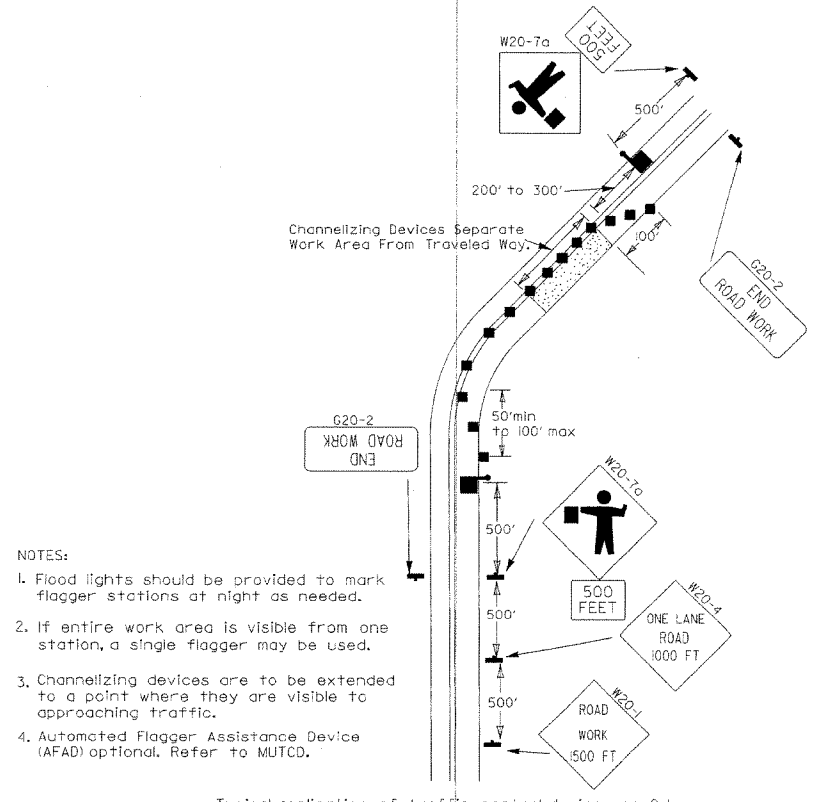
(B) Typical application - 4-lane divided roadway where one roadway is closed.



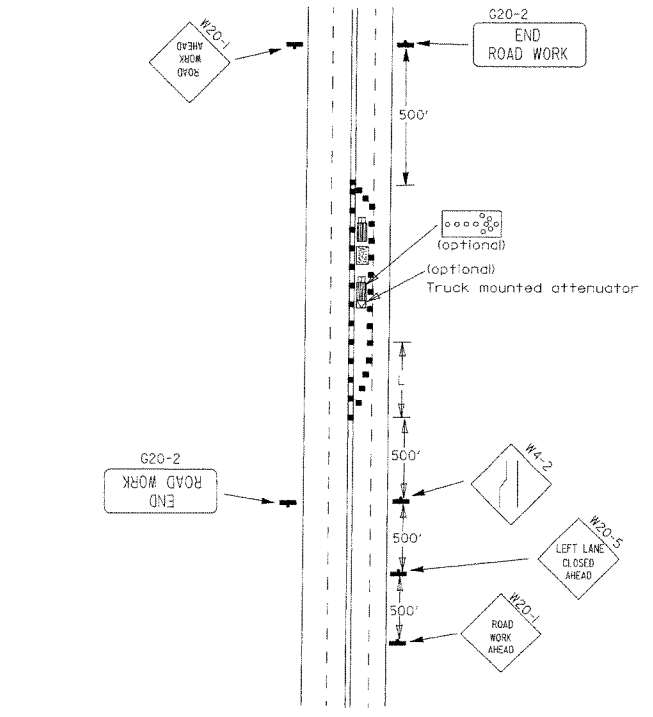
(C) Typical application - 4-lane undivided roadway where half of the roadway is closed.



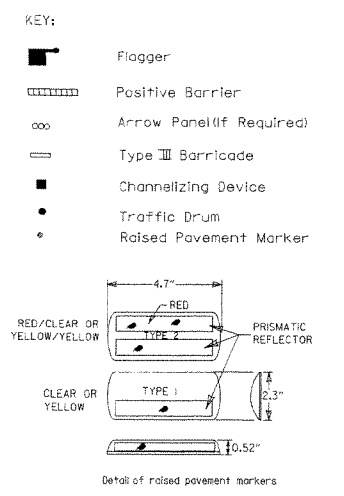
(D) Typical application - roadway closed beyond detour point.



(E) Typical application of traffic control devices on 2-lane highway where one lane is closed and flagging is provided.



(F) Typical application - 4-lane undivided roadway with inside lane closed.



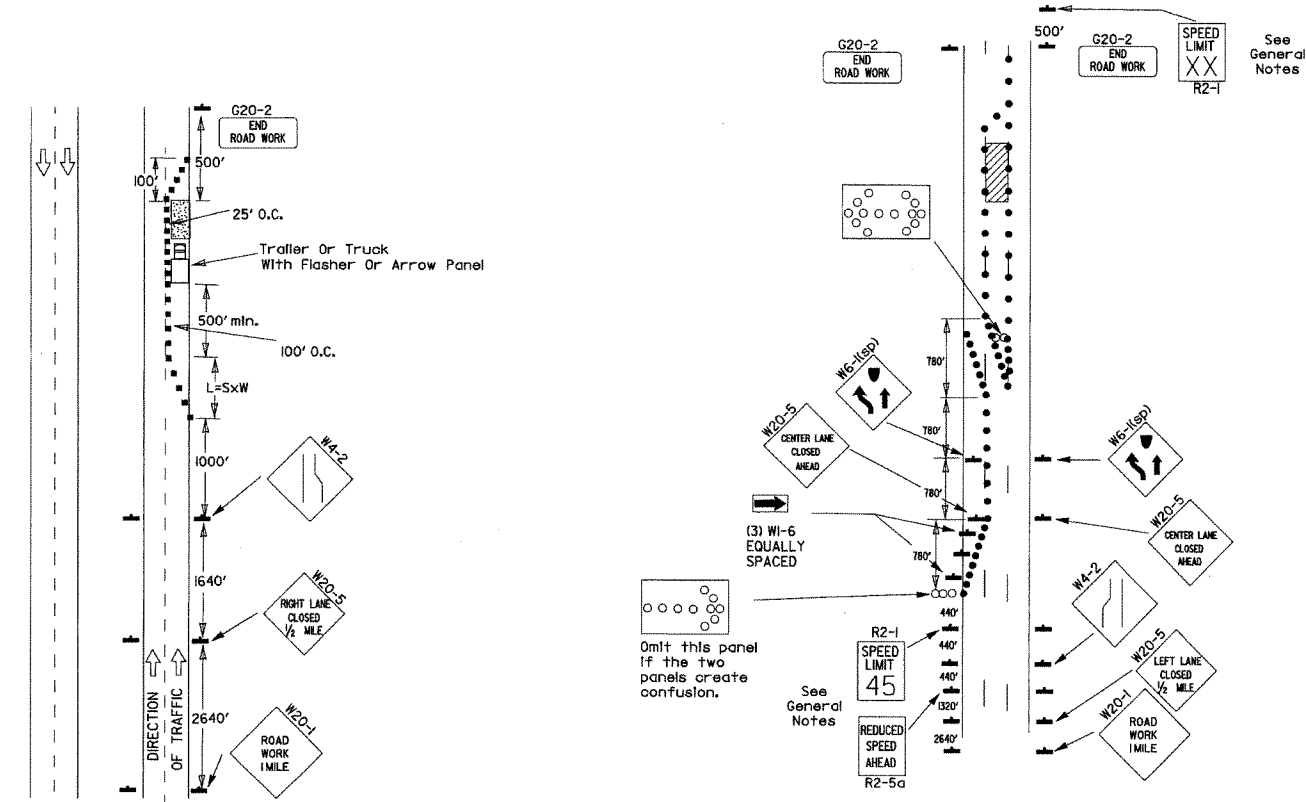
Typical advance warning sign placement

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.

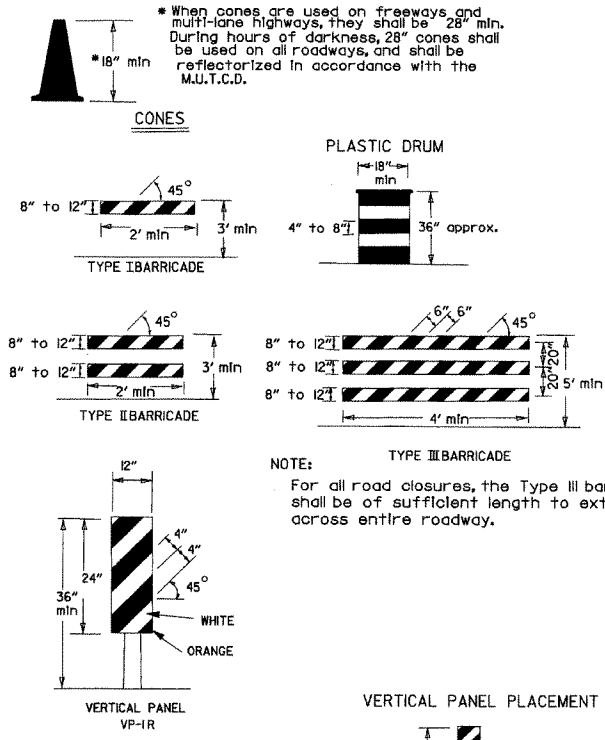
- GENERAL NOTES:
- Advisory speed posted on W1-3 or W1-4 curve warning signs to be determined at site. Use W1-4 when speed is greater than 30mph and W1-3 when 30mph or less.
 - When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-K55 shall be omitted and the R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-145 shall be installed to match original speed limit.
 - When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-K65 shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-155 shall be installed to match original speed limit.
 - The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit, or as directed by the Engineer.
 - Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
 - Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
 - Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

| DATE | REVISION | FILMED |
|----------|---|--------|
| 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 | |

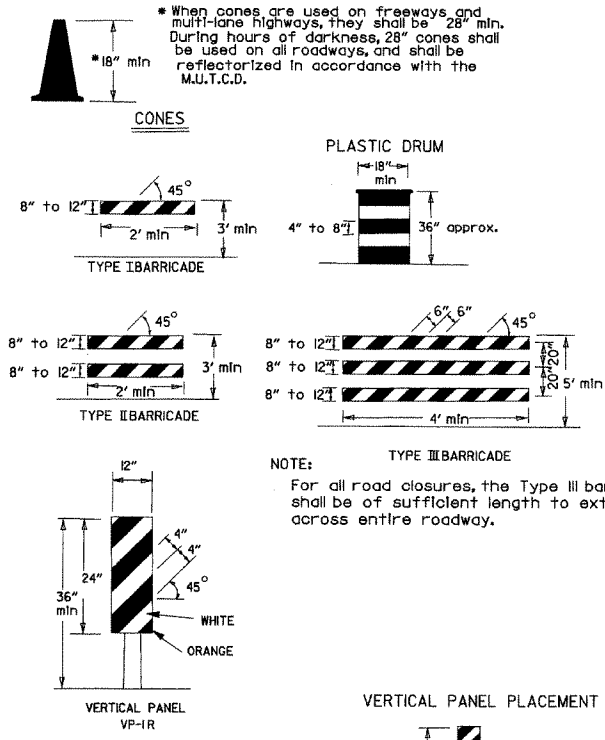
Channellizing devices



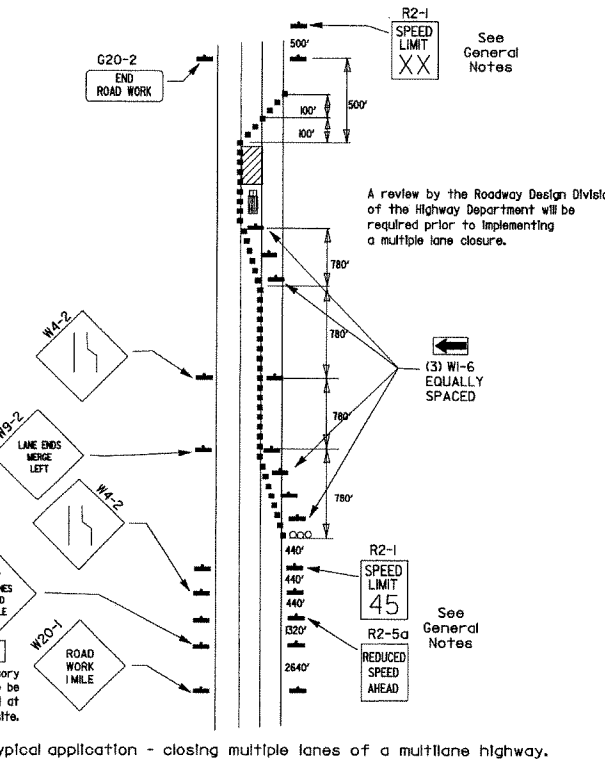
(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



(B) Typical application - 3-lane oneway roadway where center lane is closed.



(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



(D) Typical application - closing multiple lanes of a multilane highway.

- KEY:
- Arrow Panel (if Required)
 - Channellizing Device
 - Traffic drum

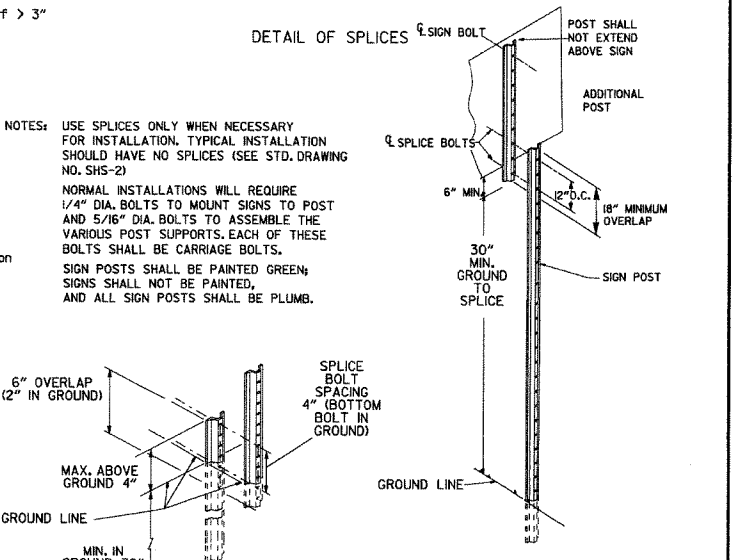
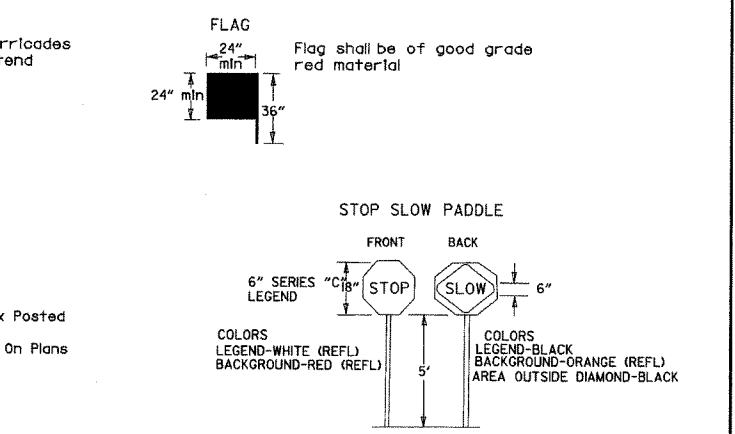
GENERAL NOTES:

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 R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1(XX) shall be installed to match original speed limit.
3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1(XX) shall be installed to match original speed limit.
4. The maximum spacing between channellizing 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 channellizing 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 (1/2 MILE) signs are not required in advance of lane closures that begin inside the project limits.
8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
9. All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual for Assessing Safety Hardware (MASH).
10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

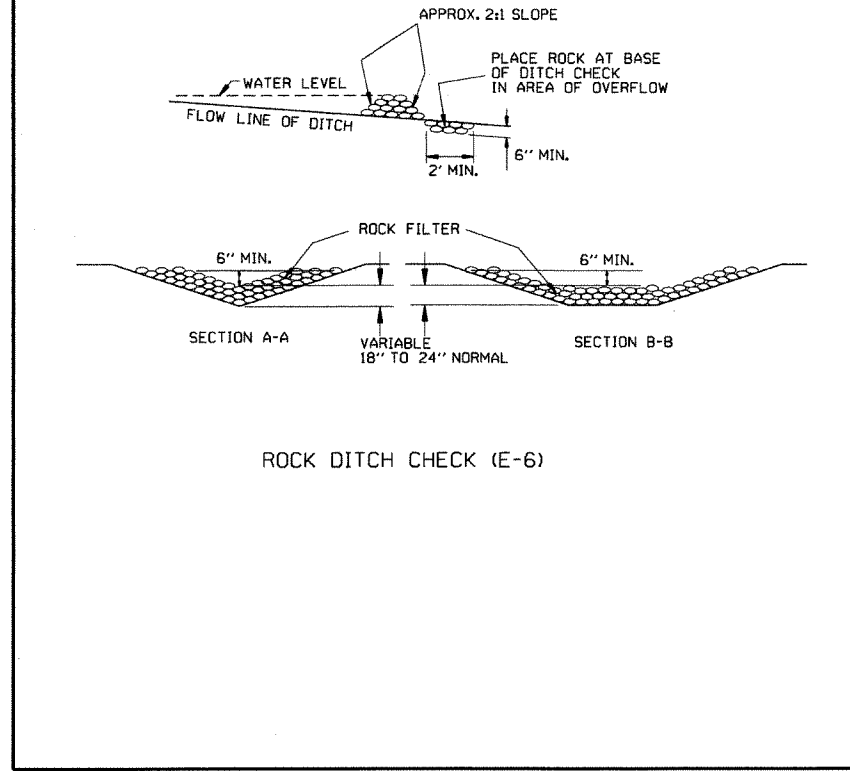
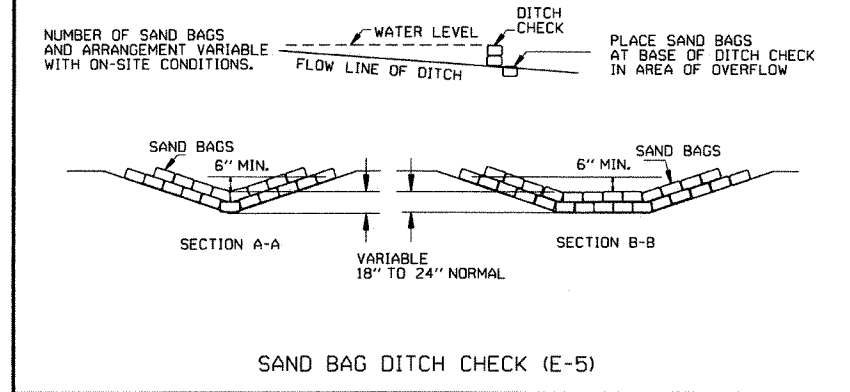
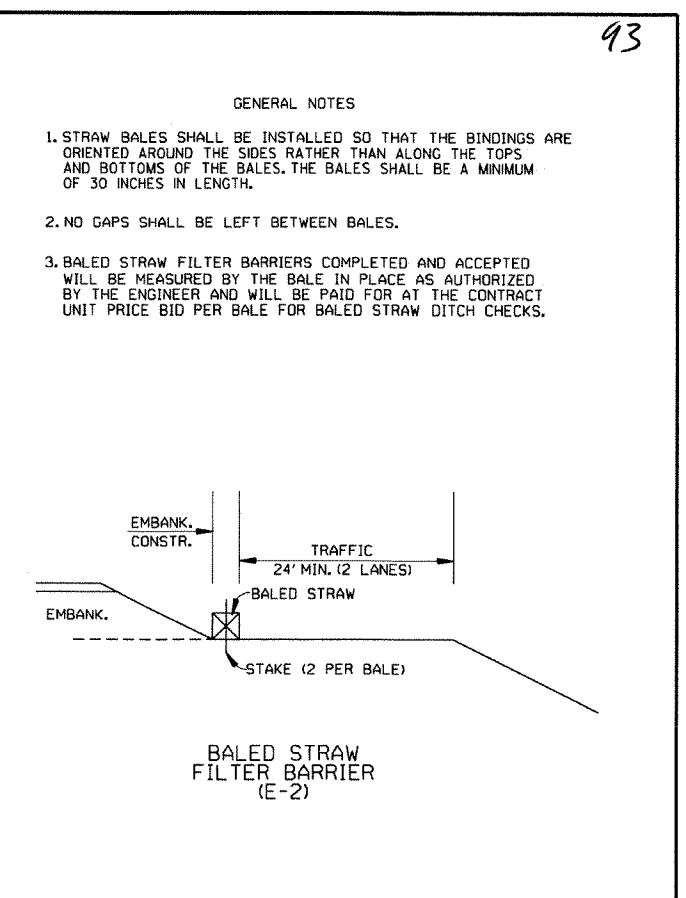
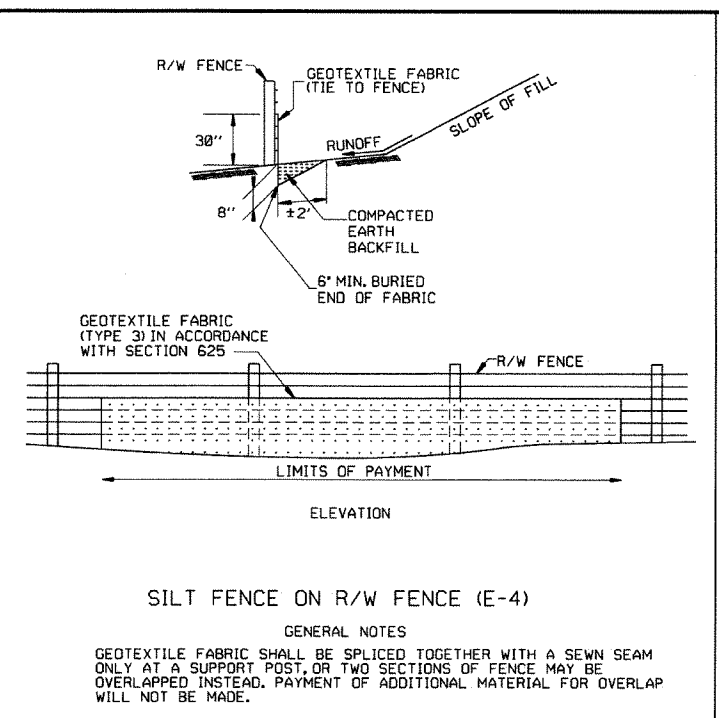
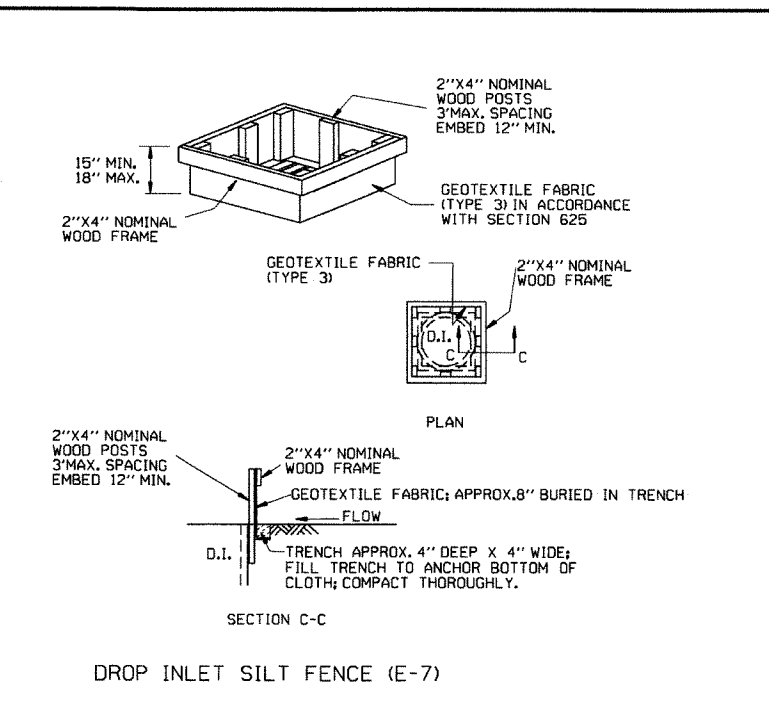
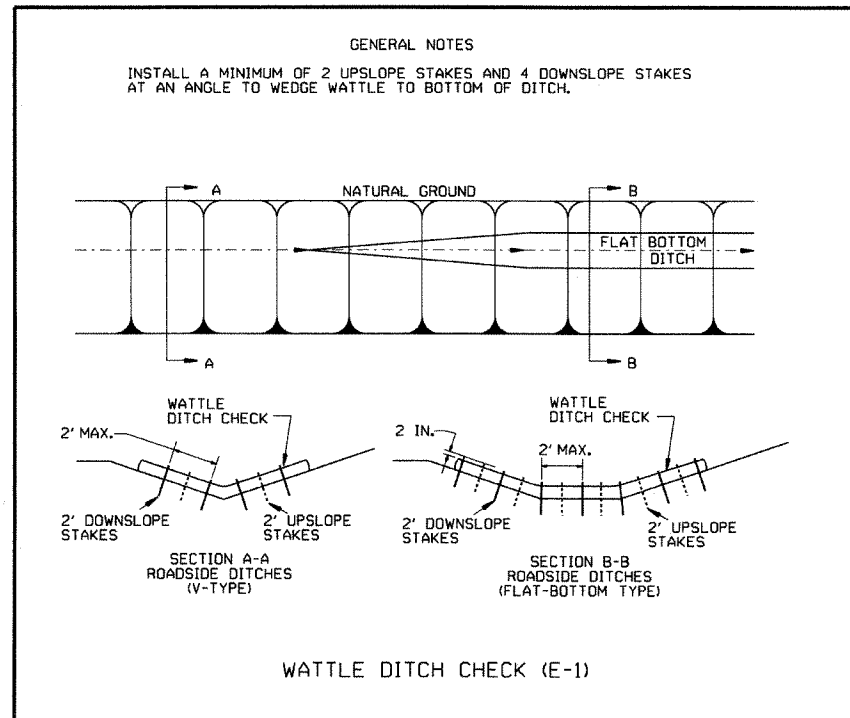
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

| VERTICAL DIFFERENTIAL | LOCATIONS | TRAFFIC CONTROL |
|-----------------------|------------------------|---|
| 1" to 3" | Centerline, lane lines | W8-11 |
| 1" to 3" | Edge of shoulder | W8-9 |
| Greater than 3" | Lane lines | Standard lane closure required |
| Greater than 3" | Edge of traveled lane | *RSP-1 and vertical panels, drums or concrete barrier |
| Greater than 3" | Edge of shoulder | *Vertical panels, drums or concrete barrier |

* When shown on the plans concrete barrier will be used.
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.



| DATE | REVISION | FILED |
|----------|---|--------|
| 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 | |



| | | | |
|----------|--|-------------|-----------------------------------|
| 12-15-11 | DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK | | ARKANSAS STATE HIGHWAY COMMISSION |
| 11-18-98 | ADDED NOTES | | |
| 7-02-98 | ADDED BALED STRAW FILTER BARRIER (E-2) | | |
| 7-20-95 | REVISED SILT FENCE E-4 AND E-11 | 7-20-95 | TEMPORARY EROSION CONTROL DEVICES |
| 7-15-94 | REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC | | |
| 6-2-94 | REVISED E-1,4,7 & 11; DELETED E-2 & 3 | 6-2-94 | |
| 4-1-93 | REDRAWN | | |
| 10-1-92 | REDRAWN | | |
| 8-2-76 | ISSUED R.D.M. | 298-7-28-76 | STANDARD DRAWING TEC-1 |
| DATE | REVISION | FILMED | |